

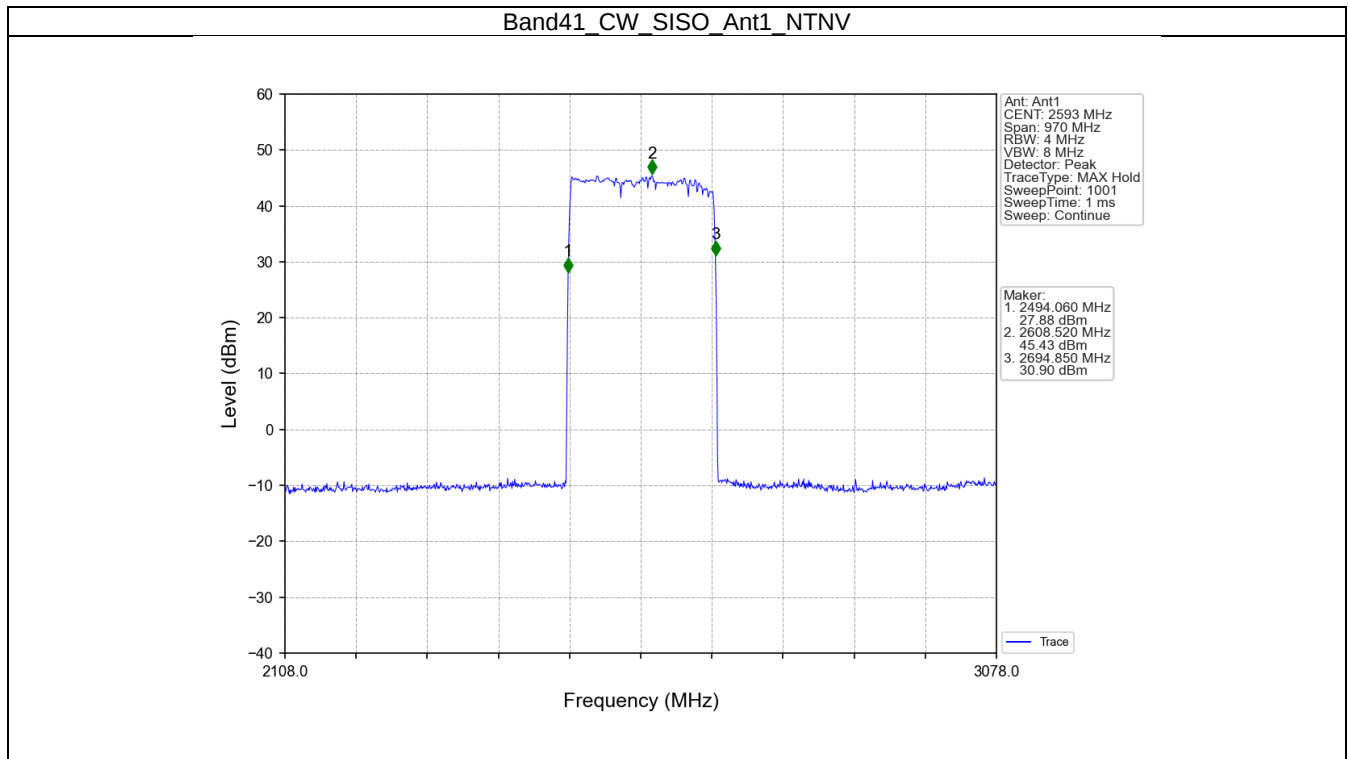
1. Out of band rejection

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	2608.520	2494.060	2694.850	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	2608.52	SISO	1	-3.80	Pass
AWGN 5MHz	2608.52	SISO	1	-3.80	Pass
AWGN 100MHz	2608.52	SISO	1	-3.80	Pass

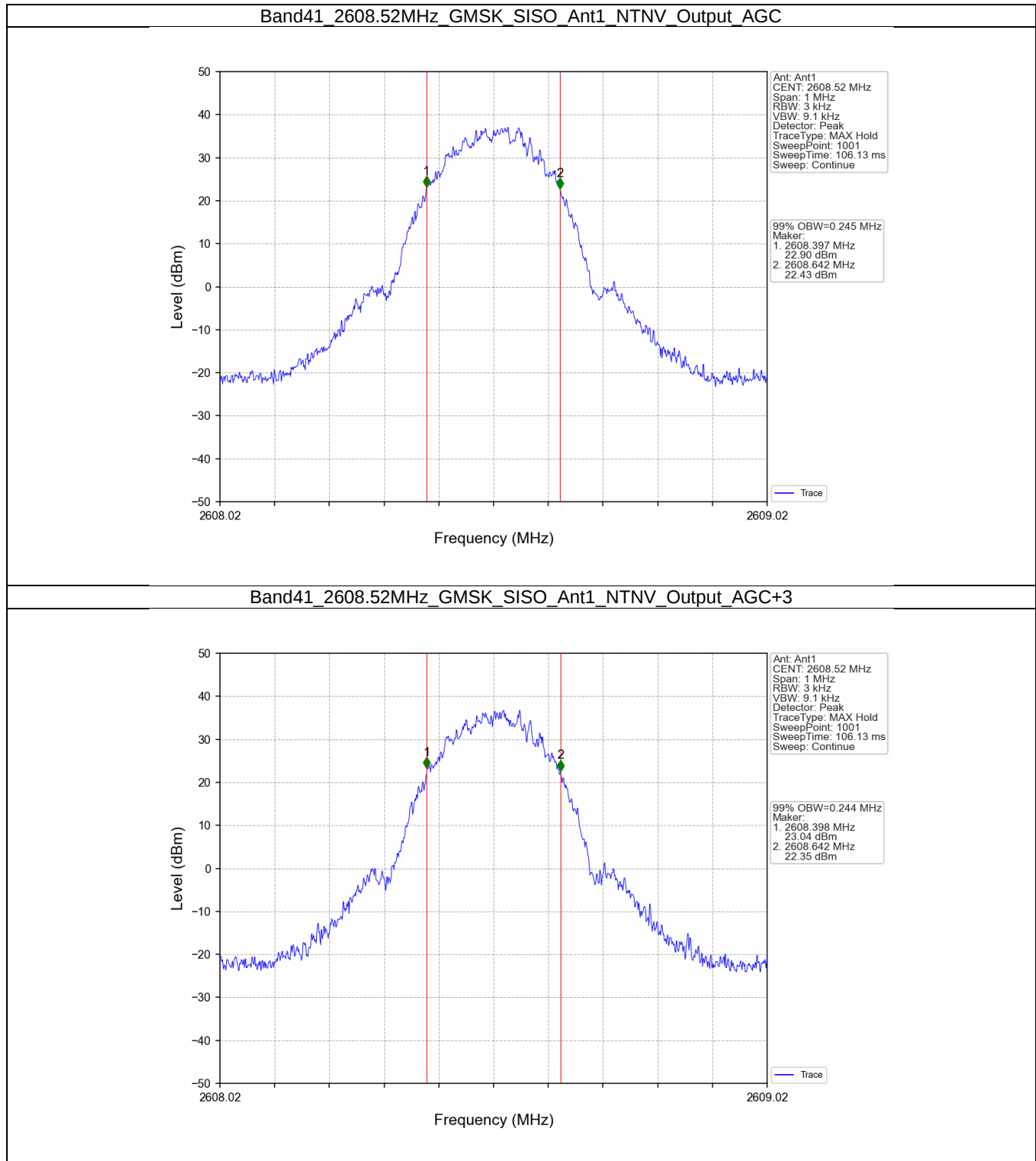
3. Input-versus-output signal comparison

3.1 Band41_OBW

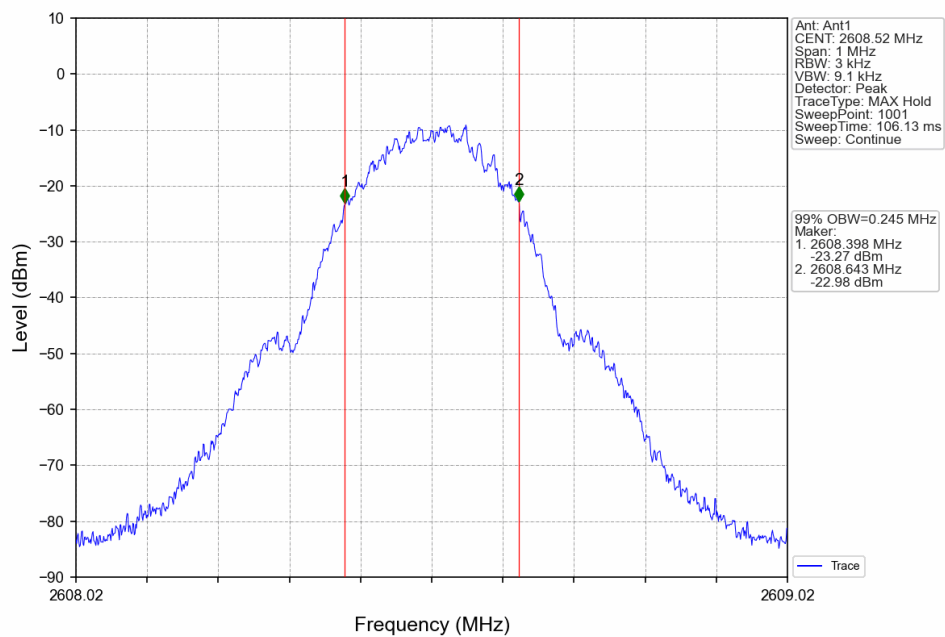
3.1.1 Test Result

Band: 41 / NTNV							
Signal			TX Type	ANT	99% OBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
GMSK 0.2MHz	-0.8	2608.52	SISO	1	0.245	0.245	Pass
	-3.8	2608.52	SISO	1	0.244	0.245	Pass
AWGN 5MHz	-0.8	2608.52	SISO	1	4.566	4.531	Pass
	-3.8	2608.52	SISO	1	4.530	4.533	Pass
AWGN 100MHz	-0.8	2608.52	SISO	1	97.732	96.999	Pass
	-3.8	2608.52	SISO	1	97.087	97.136	Pass

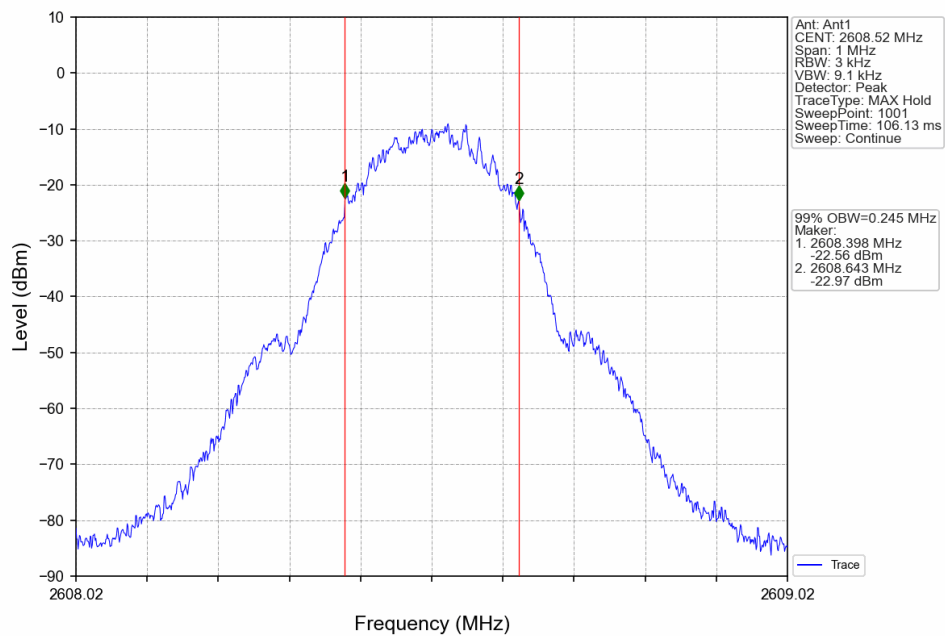
3.1.2 Test Graph



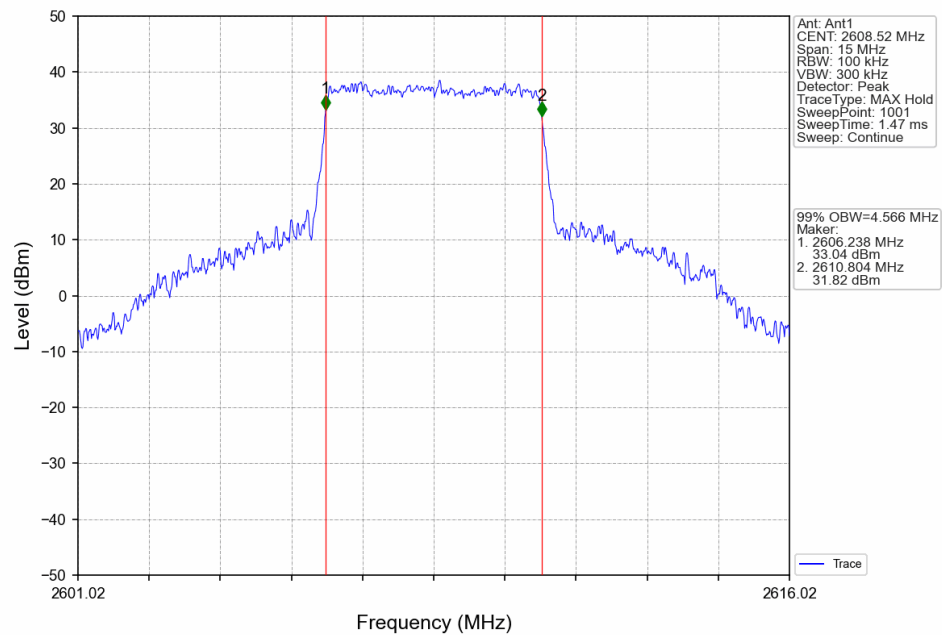
Band41_2608.52MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



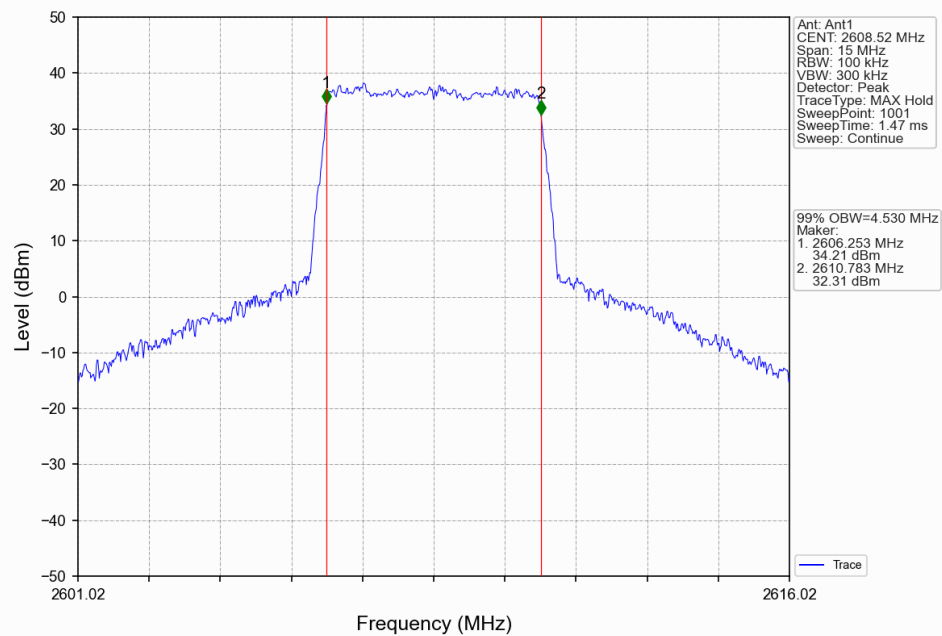
Band41_2608.52MHz_GMSK_SISO_Ant1_NTNV_Input_AGC+3



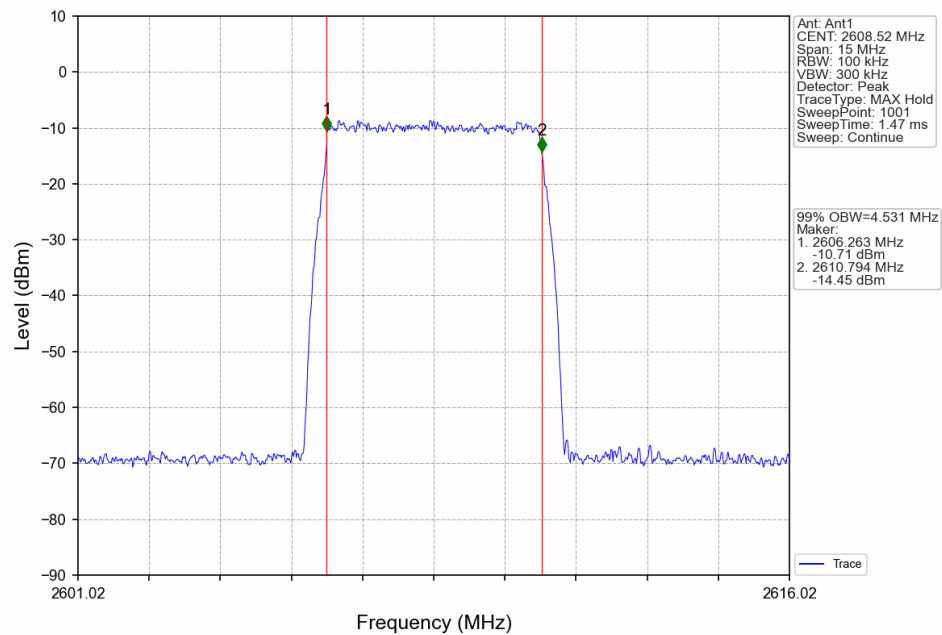
Band41_2608.52MHz_AWGN_SISO_Ant1_NTNV_Output_AGC



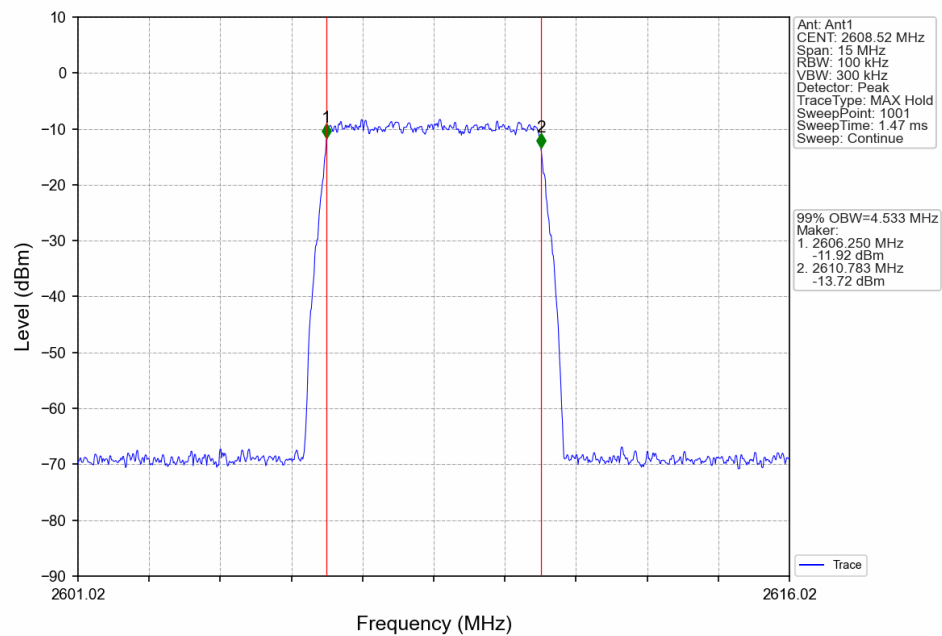
Band41_2608.52MHz_AWGN_SISO_Ant1_NTNV_Output_AGC+3



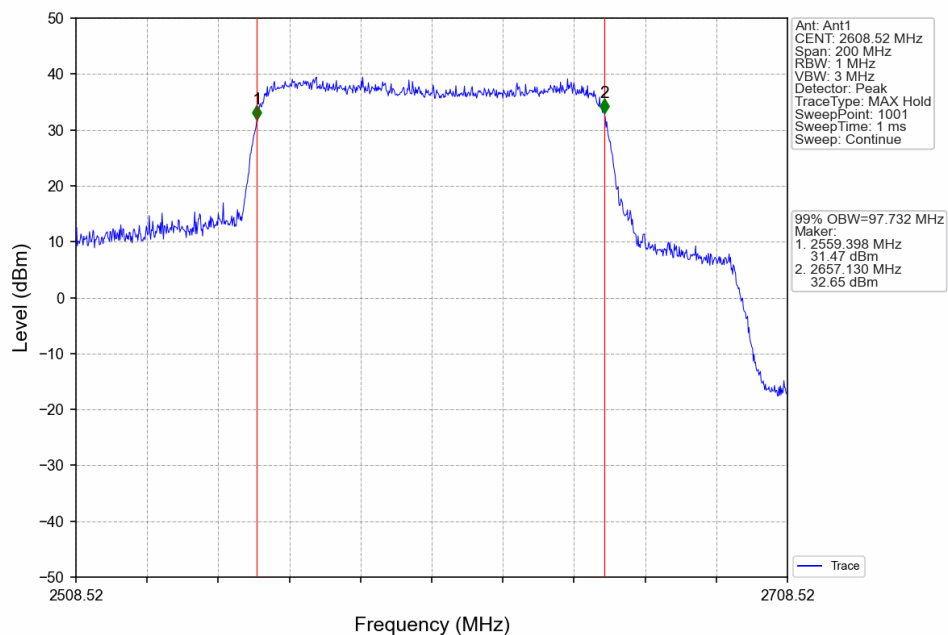
Band41_2608.52MHz_AWGN_SISO_Ant1_NTNV_Input_AGC



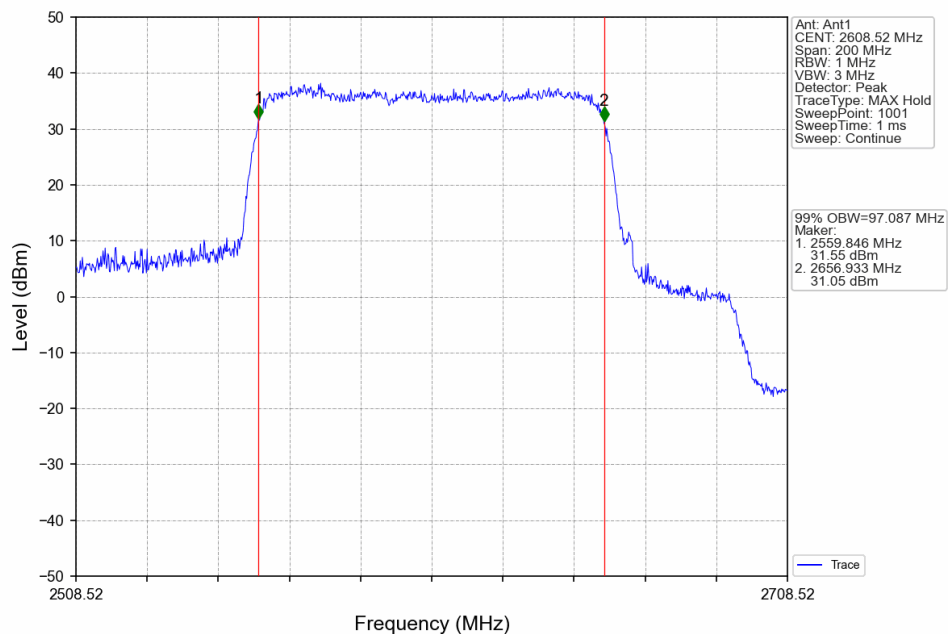
Band41_2608.52MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



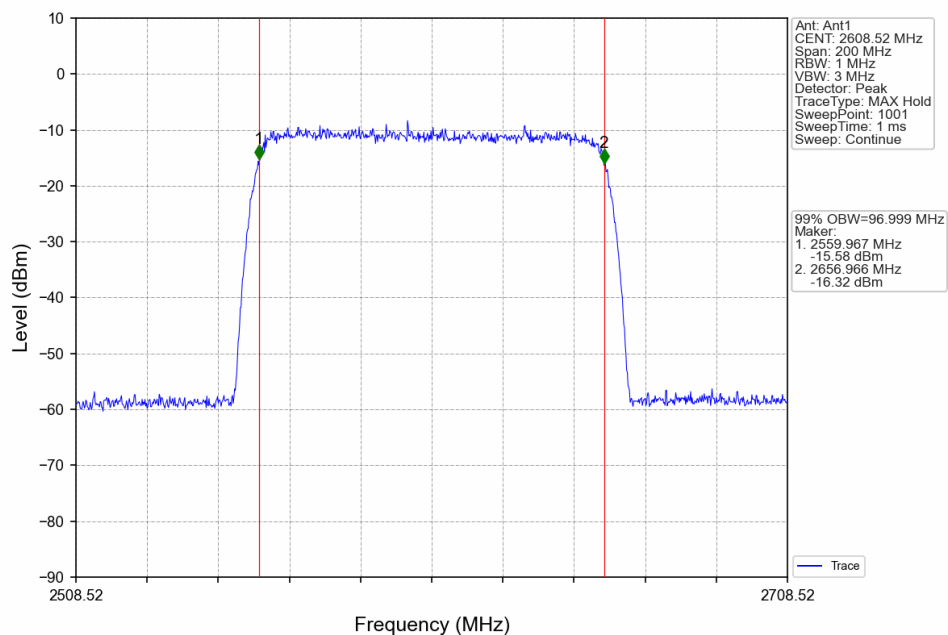
Band41_2608.52MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC



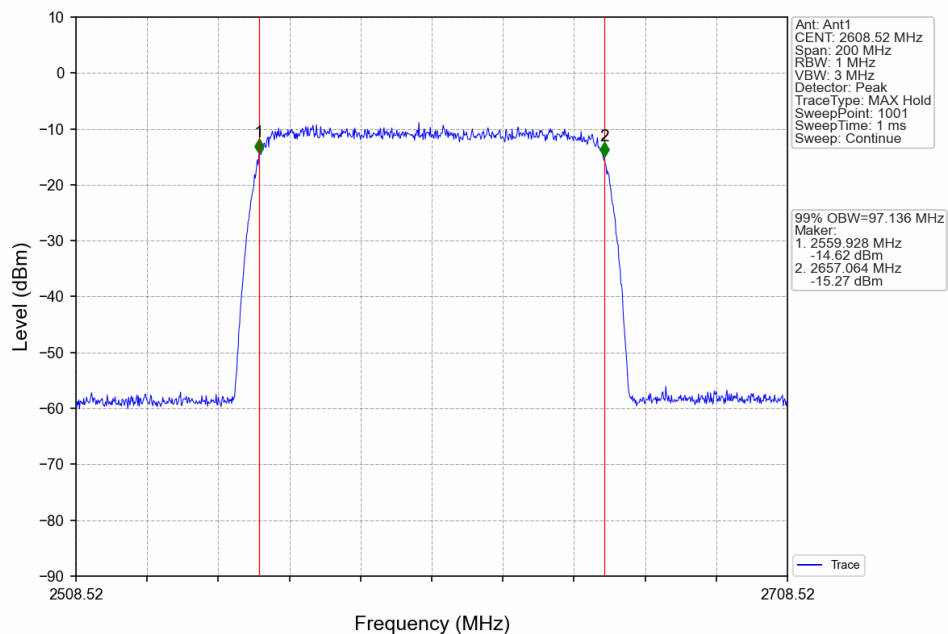
Band41_2608.52MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC+3



Band41_2608.52MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC



Band41_2608.52MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC+3

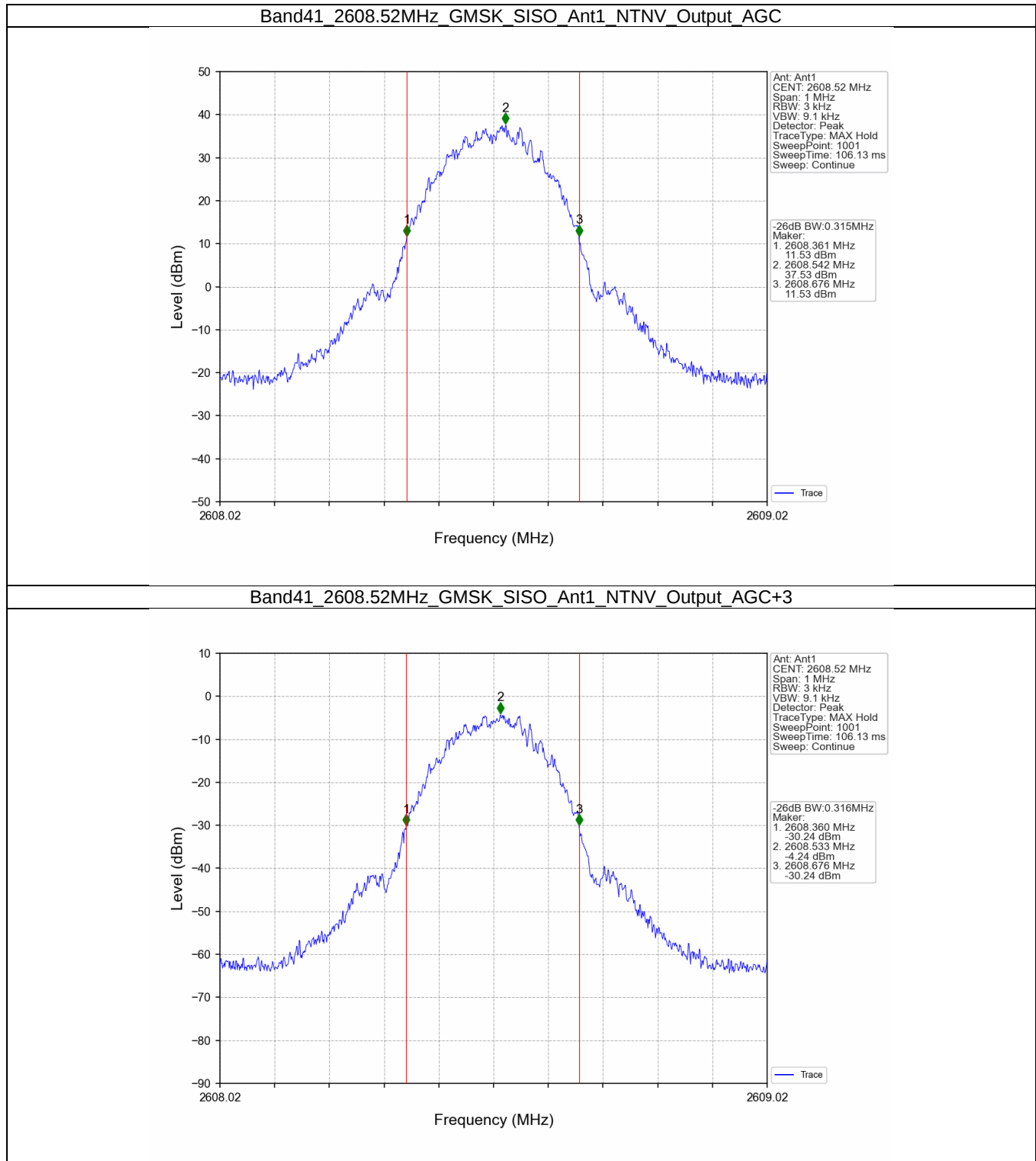


3.2 Band41_EBW

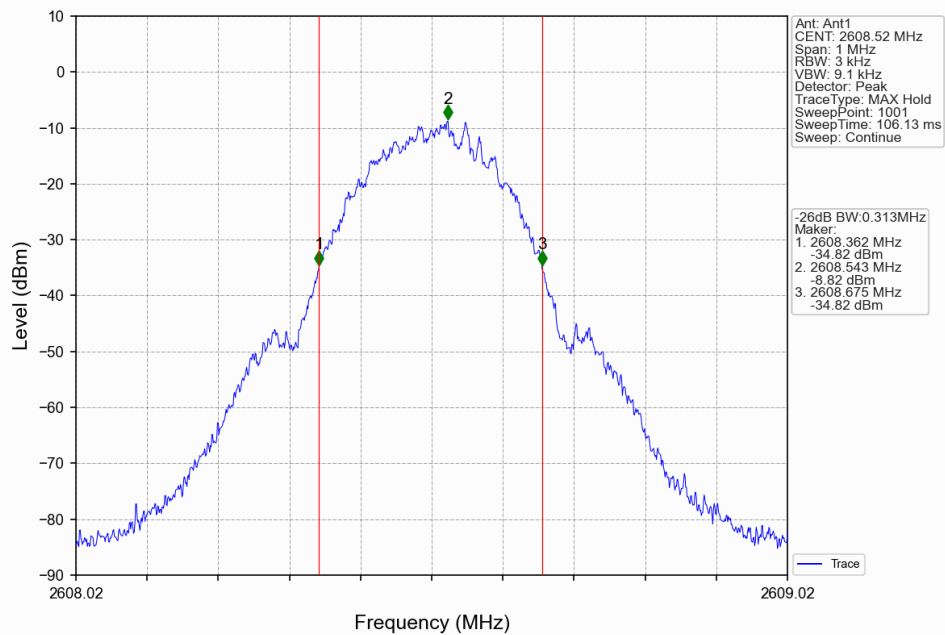
3.2.1 Test Result

Band: 41 / NTNV							
Signal			TX Type	ANT	26dB EBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
GMSK 0.2MHz	-0.8	2608.52	SISO	1	0.315	0.313	Pass
	-3.8	2608.52	SISO	1	0.316	0.316	Pass
AWGN 5MHz	-0.8	2608.52	SISO	1	5.047	5.060	Pass
	-3.8	2608.52	SISO	1	5.056	5.073	Pass
AWGN 100MHz	-0.8	2608.52	SISO	1	106.241	105.685	Pass
	-3.8	2608.52	SISO	1	109.255	105.803	Pass

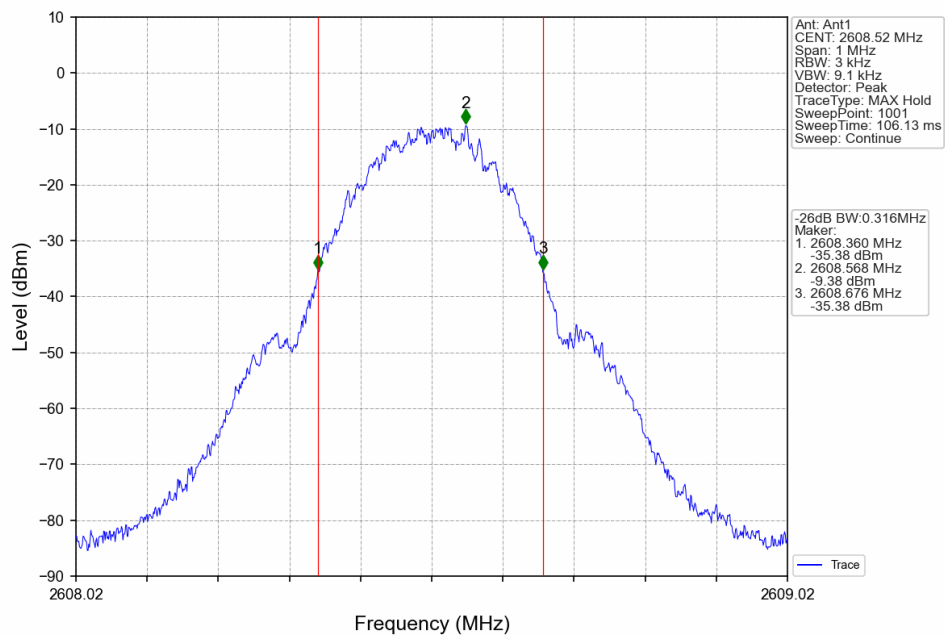
3.2.2 Test Graph



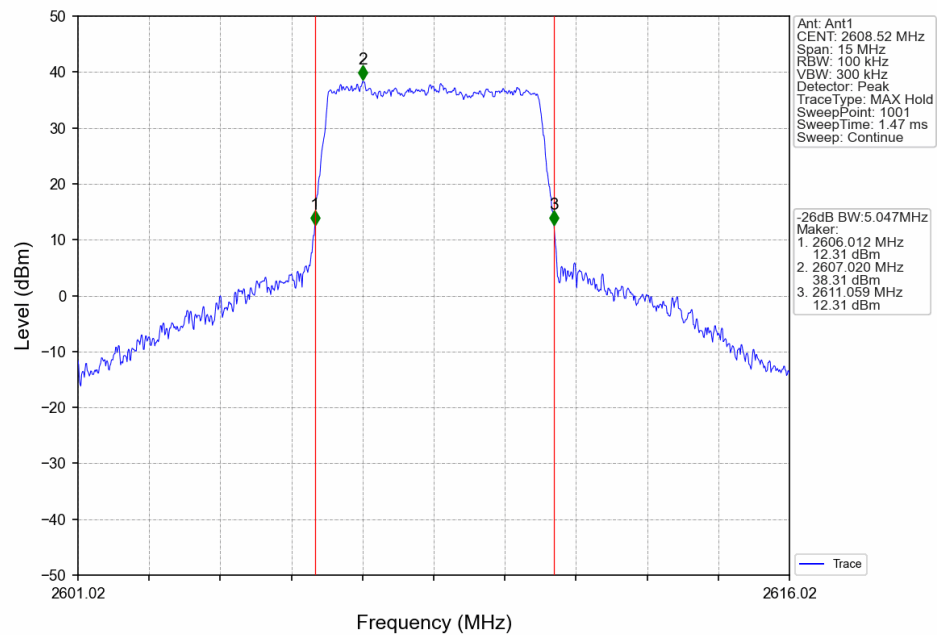
Band41_2608.52MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



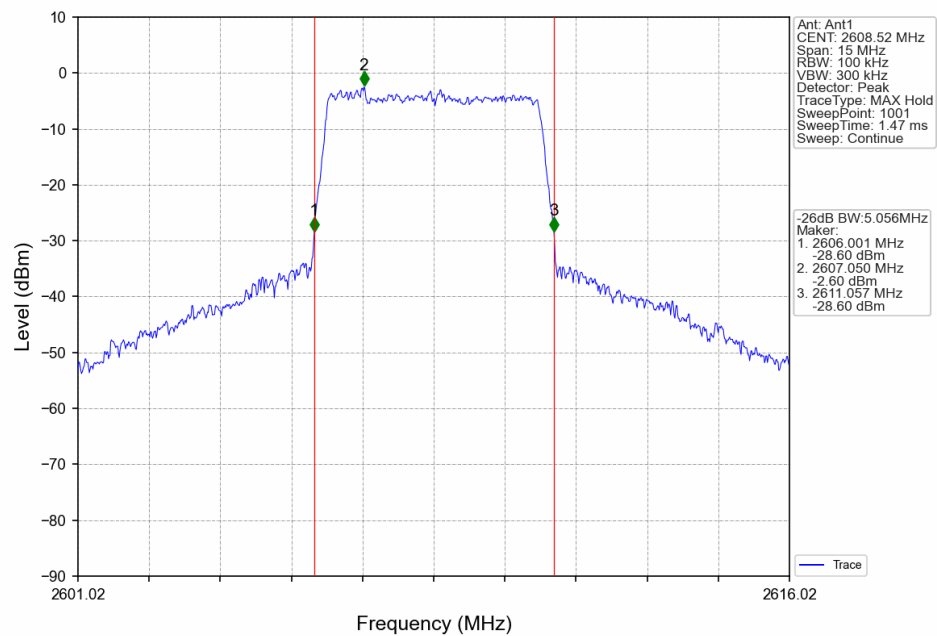
Band41_2608.52MHz_GMSK_SISO_Ant1_NTNV_Input_AGC+3



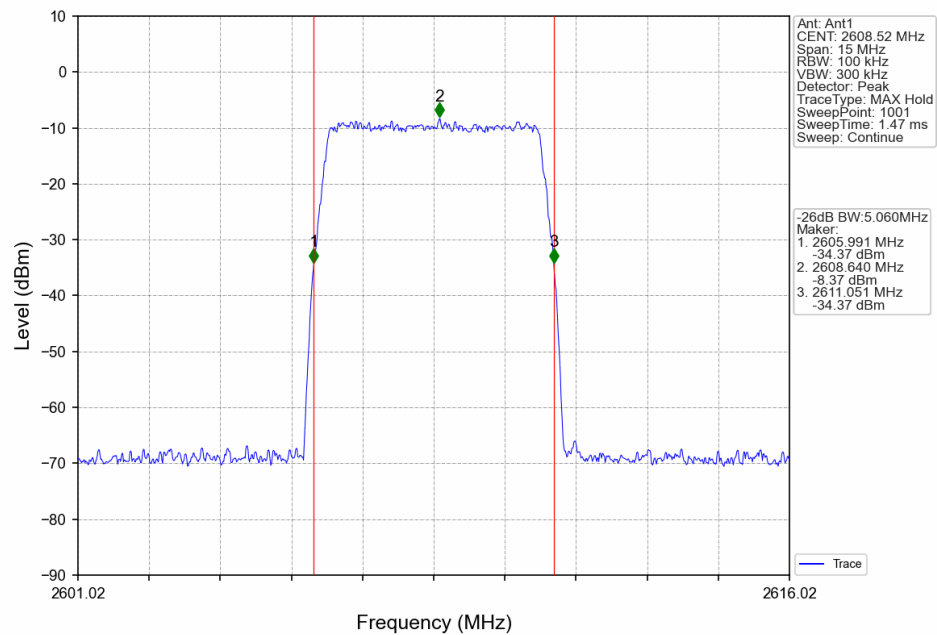
Band41_2608.52MHz_AWGN_SISO_Ant1_NTNV_Output_AGC



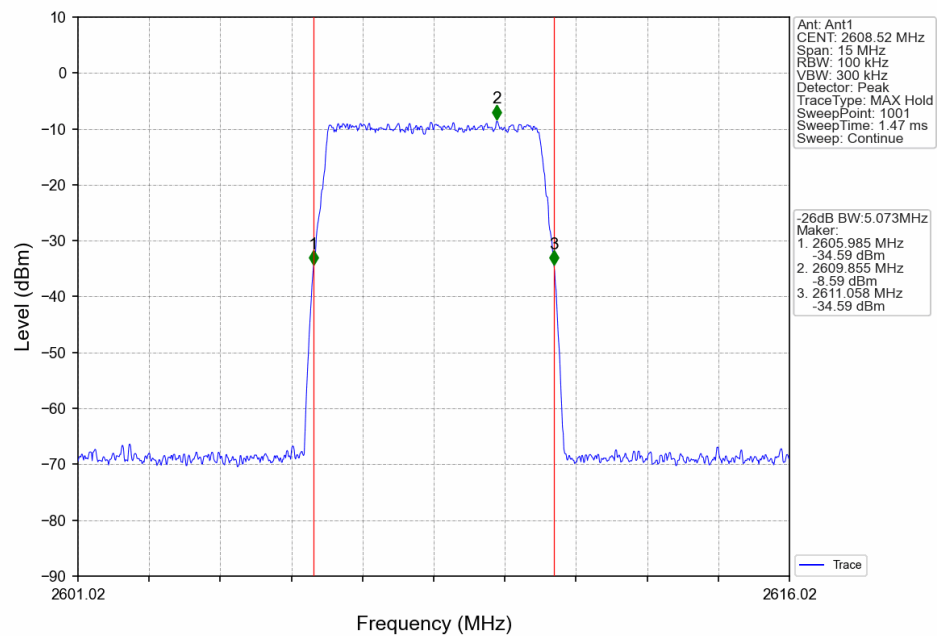
Band41_2608.52MHz_AWGN_SISO_Ant1_NTNV_Output_AGC+3



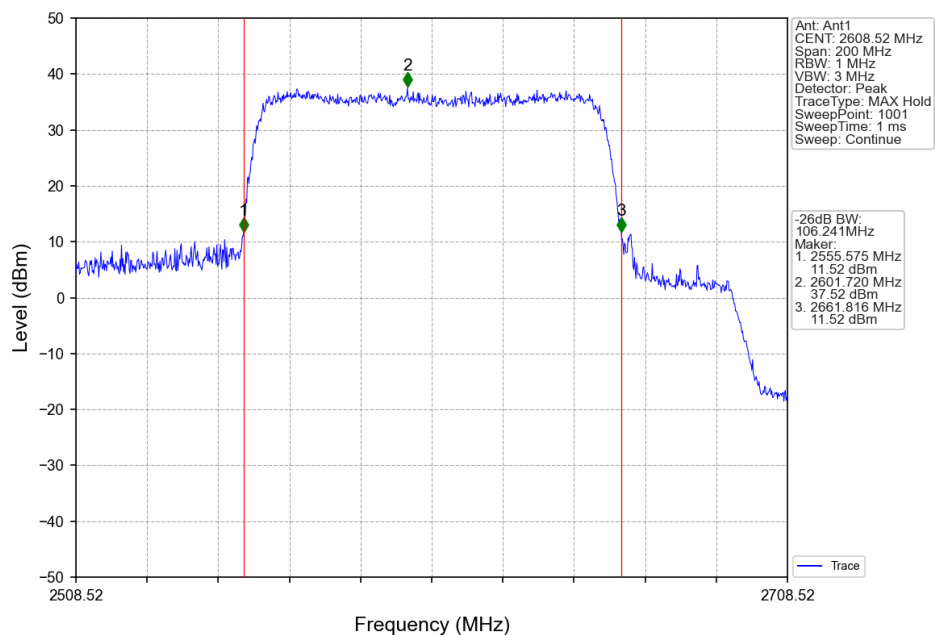
Band41_2608.52MHz_AWGN_SISO_Ant1_NTNV_Input_AGC



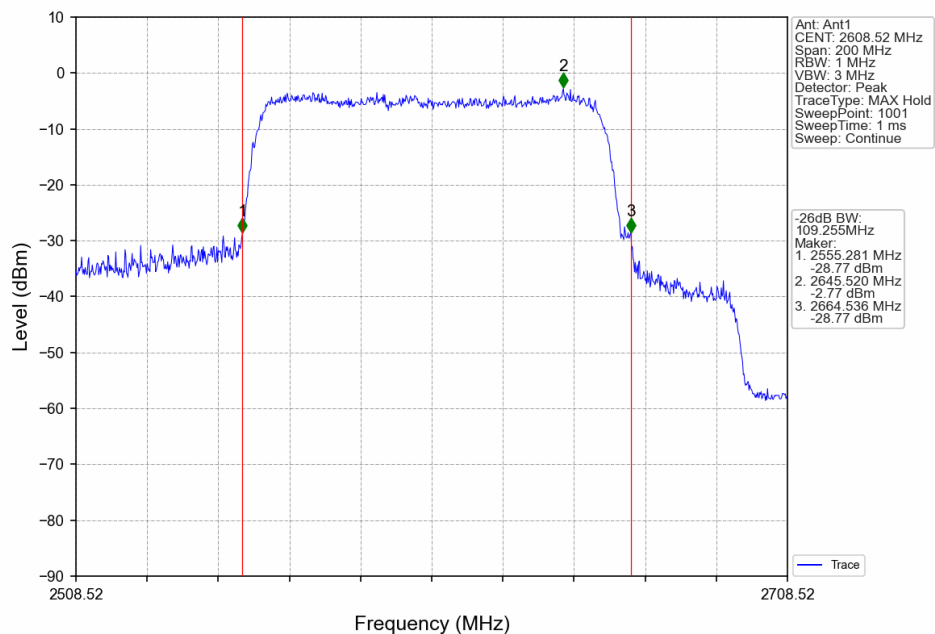
Band41_2608.52MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



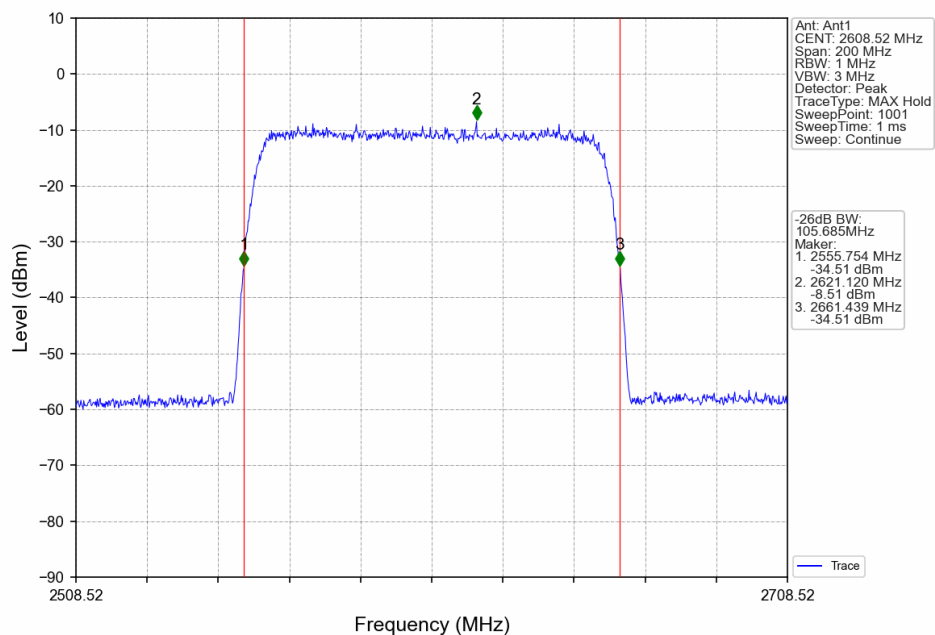
Band41_2608.52MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC



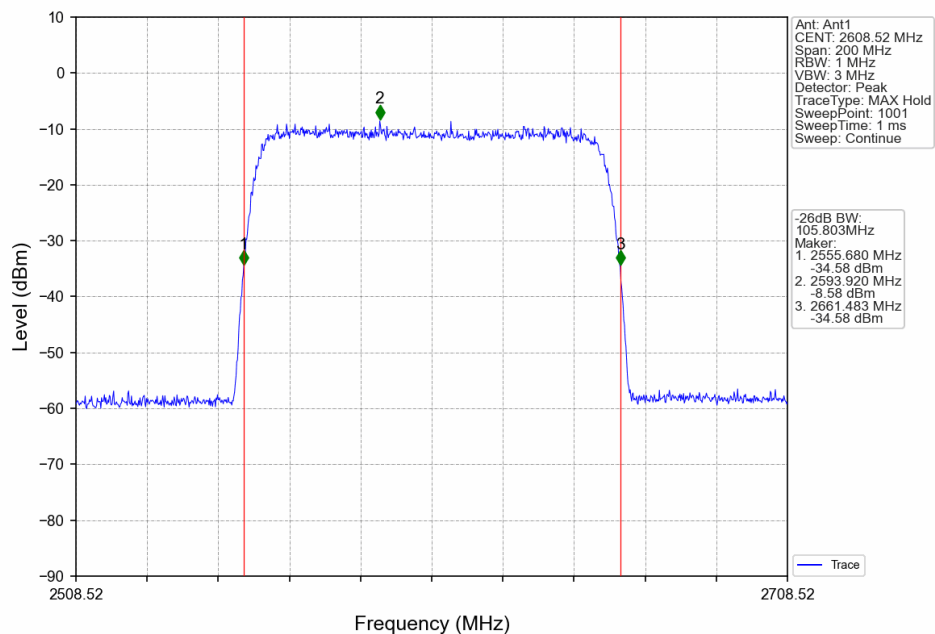
Band41_2608.52MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC+3



Band41_2608.52MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC



Band41_2608.52MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC+3



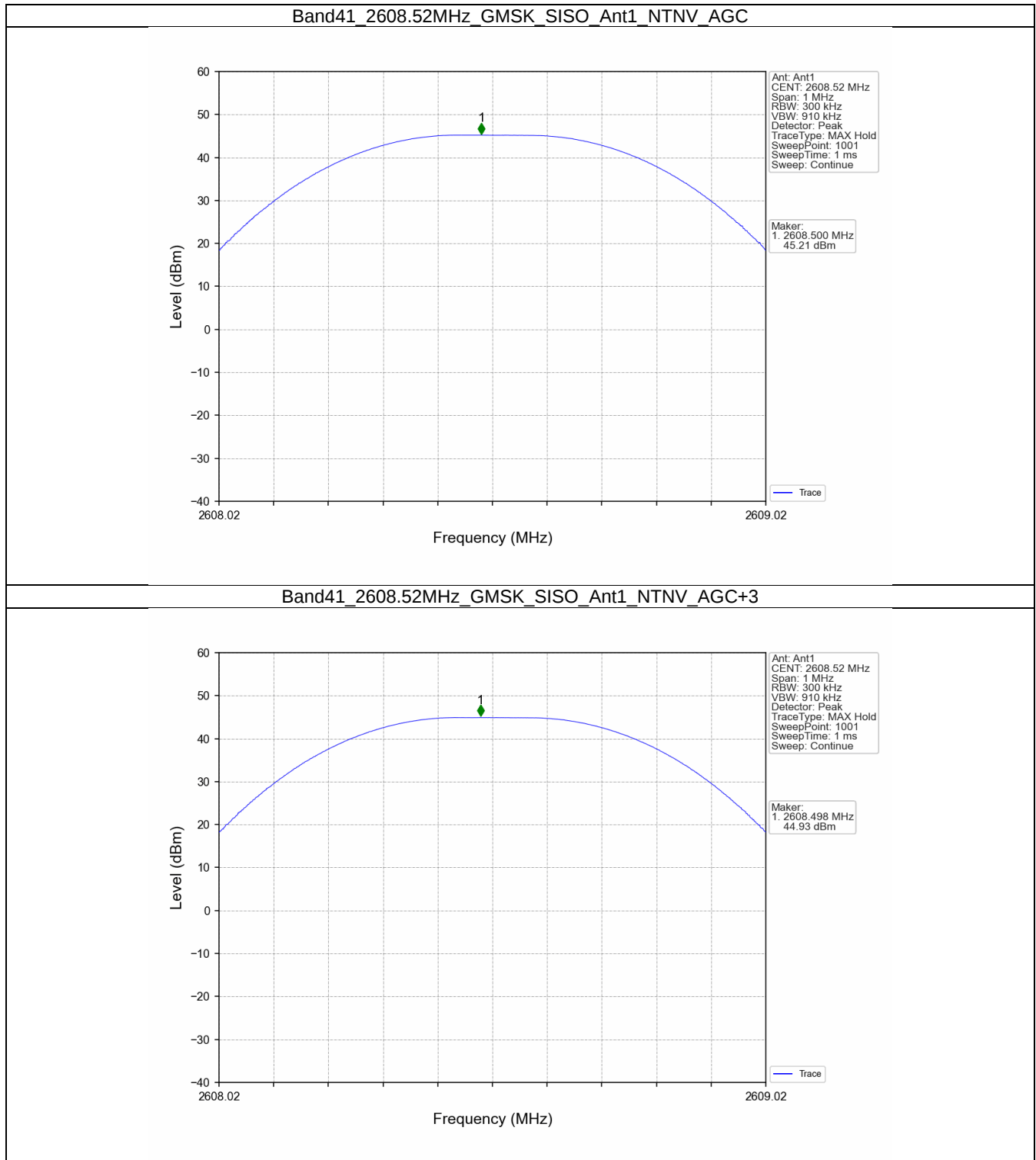
4. Input/output power and amplifier/booster gain

4.1 Band41_EIRP

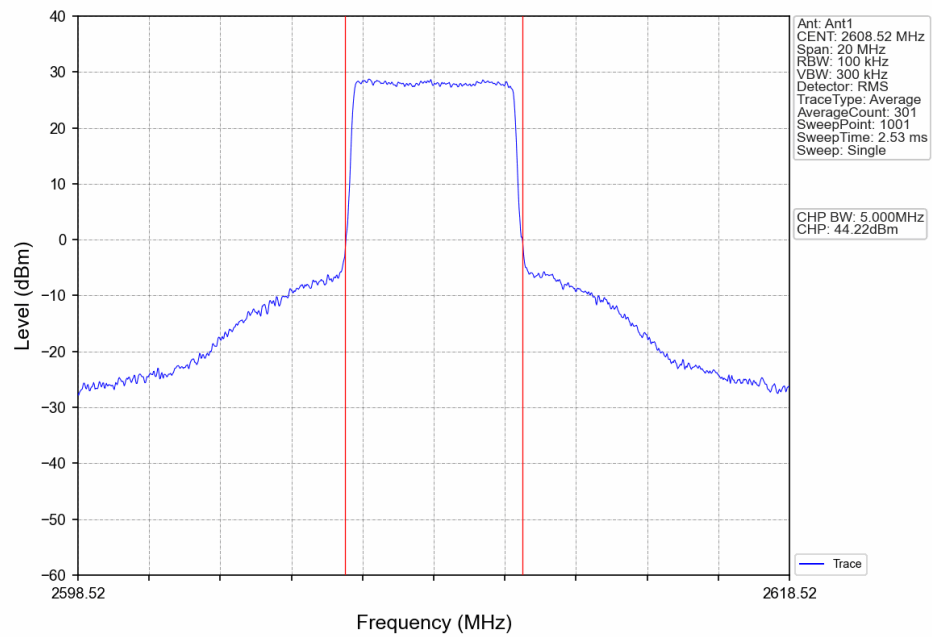
4.1.1 Test Result

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	-3.8	2608.52	SISO	1	45.21	-3.11	60.21	<=80.2	48.33	Pass
	-0.8	2608.52	SISO	1	44.93	-0.11	59.93	<=80.2	/	Pass
AWGN 5MHz	-3.8	2608.52	SISO	1	44.22	-3.89	59.22	<=92.25	48.11	Pass
	-0.8	2608.52	SISO	1	44.43	-0.38	59.43	<=92.25	/	Pass
AWGN 100MHz	-3.8	2608.52	SISO	1	44.78	-3.29	59.78	<=105.48	48.07	Pass
	-0.8	2608.52	SISO	1	44.49	-0.33	59.49	<=105.48	/	Pass

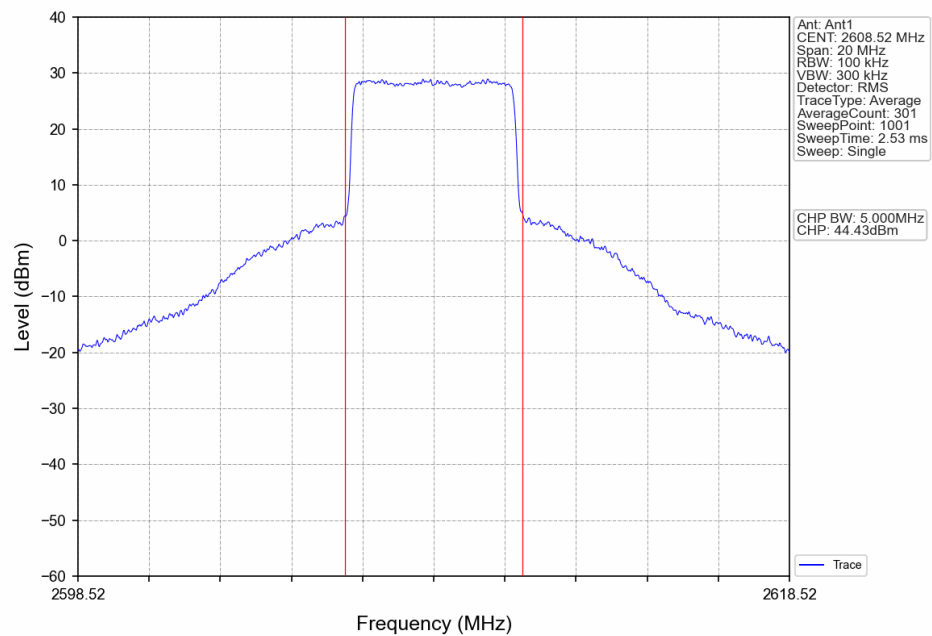
4.1.2 Test Graph



Band41_2608.52MHz_AWGN_SISO_Ant1_NTNV_AGC



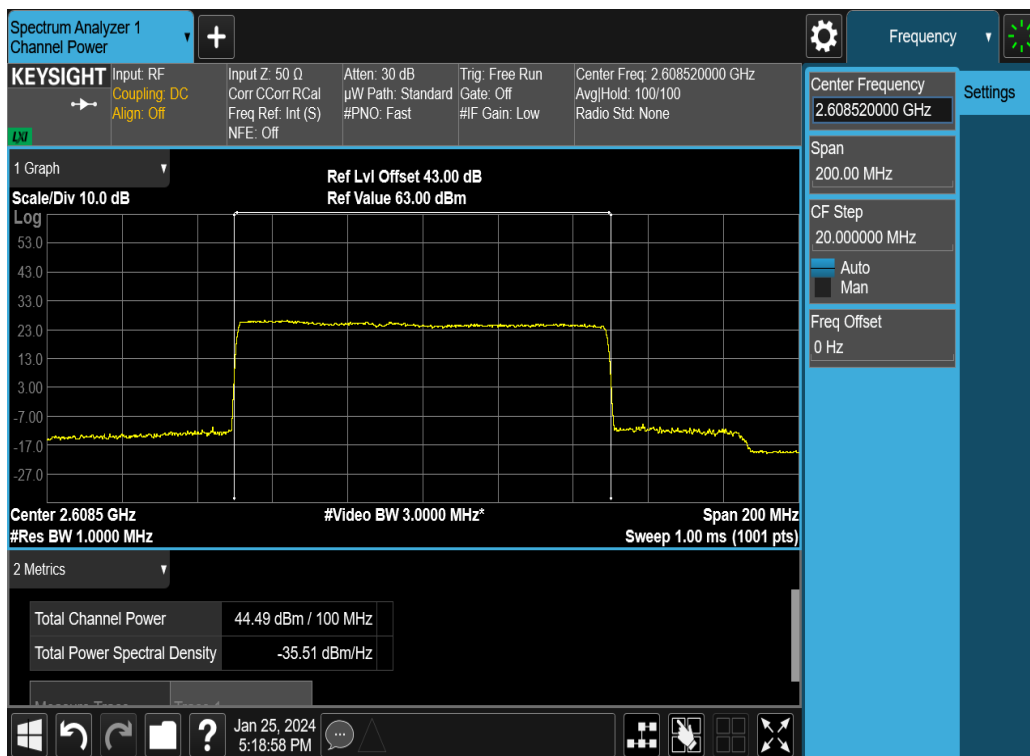
Band41_2608.52MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band41_2608.52MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Band41_2608.52MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3

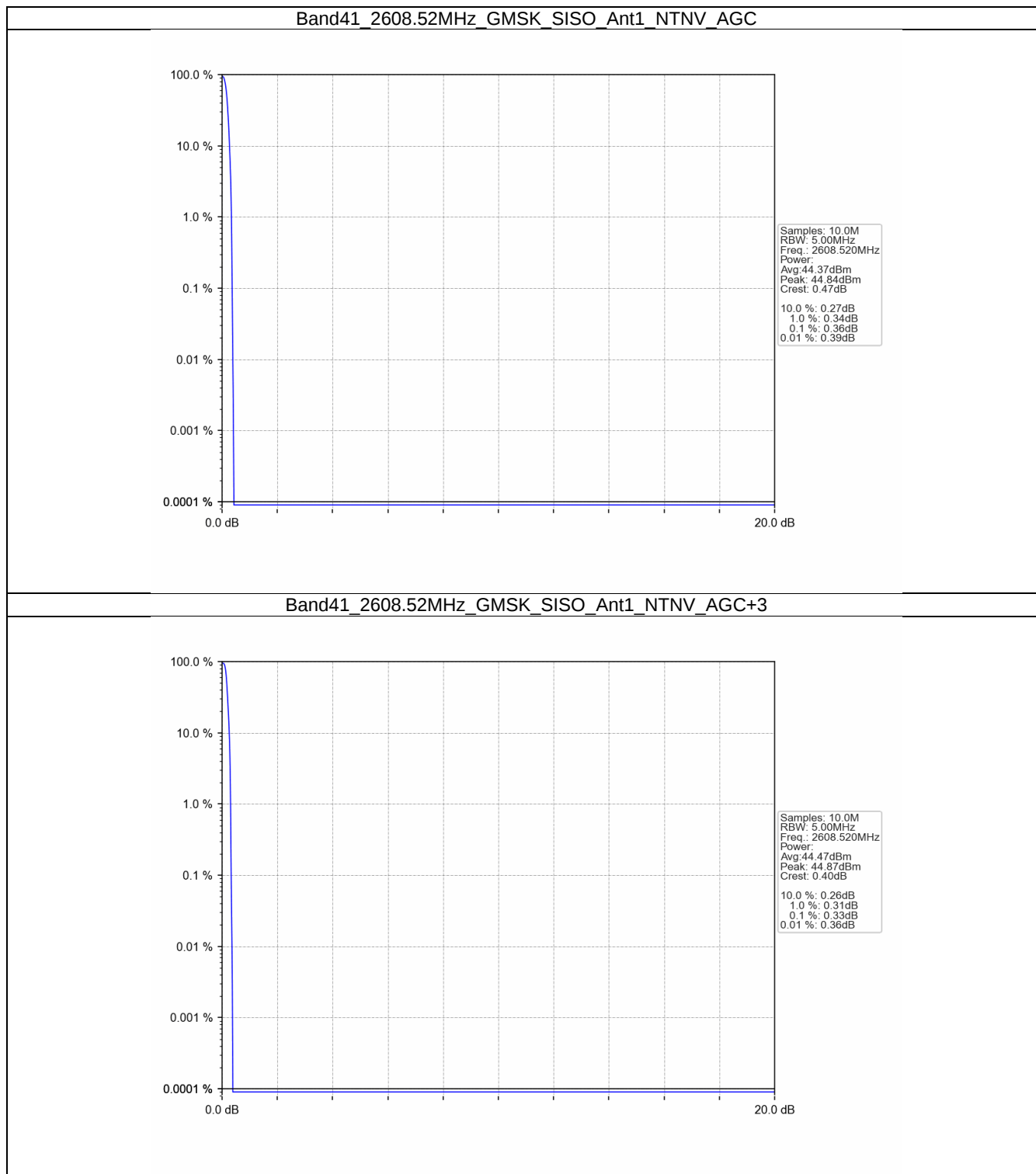


4.2 Band41_PAPR

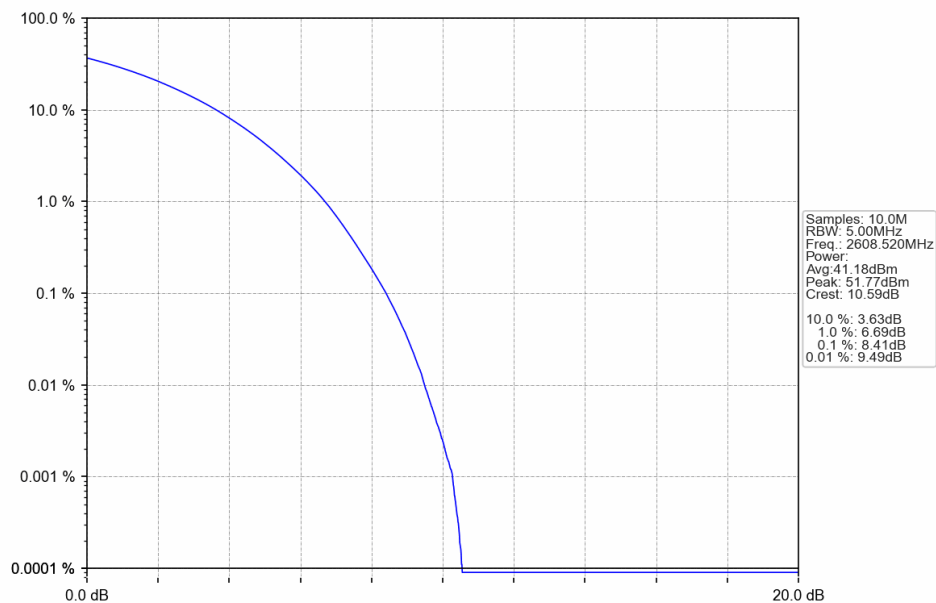
4.2.1 Test Result

Band: 41 / NTNV							
Signal			TX Type	ANT	PAPR (dB)		Verdict
Type	Level (dBm)	Frequency (MHz)			Result	Limit	
GMSK 0.2MHz	-3.8	2608.52	SISO	1	0.36	<=13	Pass
	-0.8	2608.52	SISO	1	0.33	<=13	Pass
AWGN 5MHz	-3.8	2608.52	SISO	1	8.41	<=13	Pass
	-0.8	2608.52	SISO	1	8.45	<=13	Pass
AWGN 100MHz	-3.8	2608.52	SISO	1	8.41	<=13	Pass
	-0.8	2608.52	SISO	1	8.58	<=13	Pass

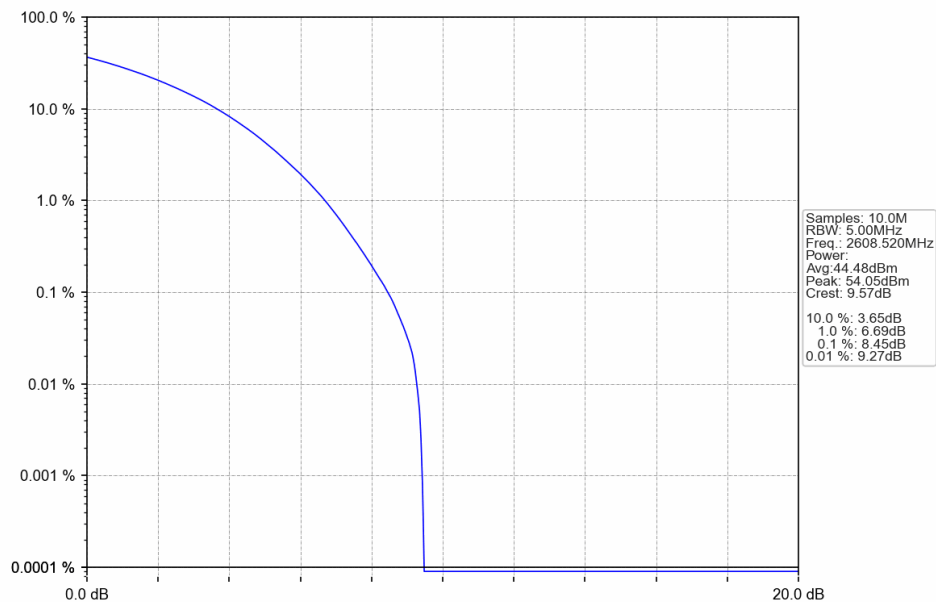
4.2.2 Test Graph



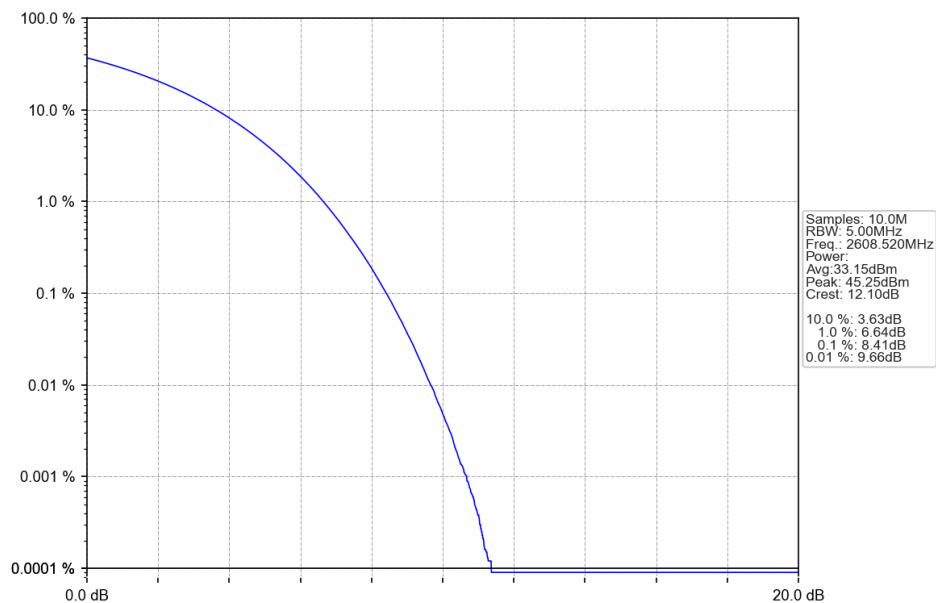
Band41_2608.52MHz_AWGN_SISO_Ant1_NTNV_AGC



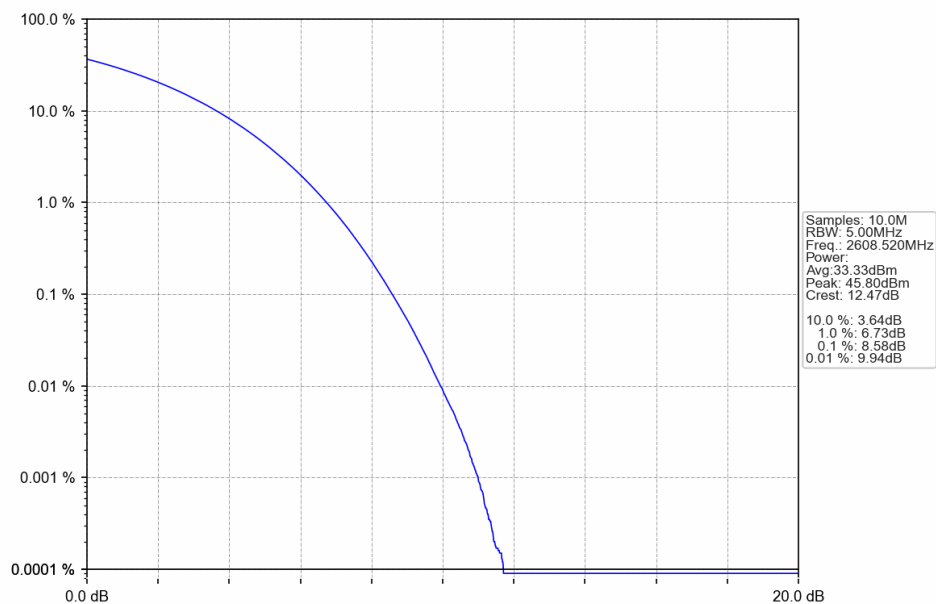
Band41_2608.52MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band41_ 2608.52MHz_ Broad100MHz_ SISO_ Ant1_ NTN_V AGC



Band41_ 2608.52MHz_ Broad100MHz_ SISO_ Ant1_ NTN_V AGC+3



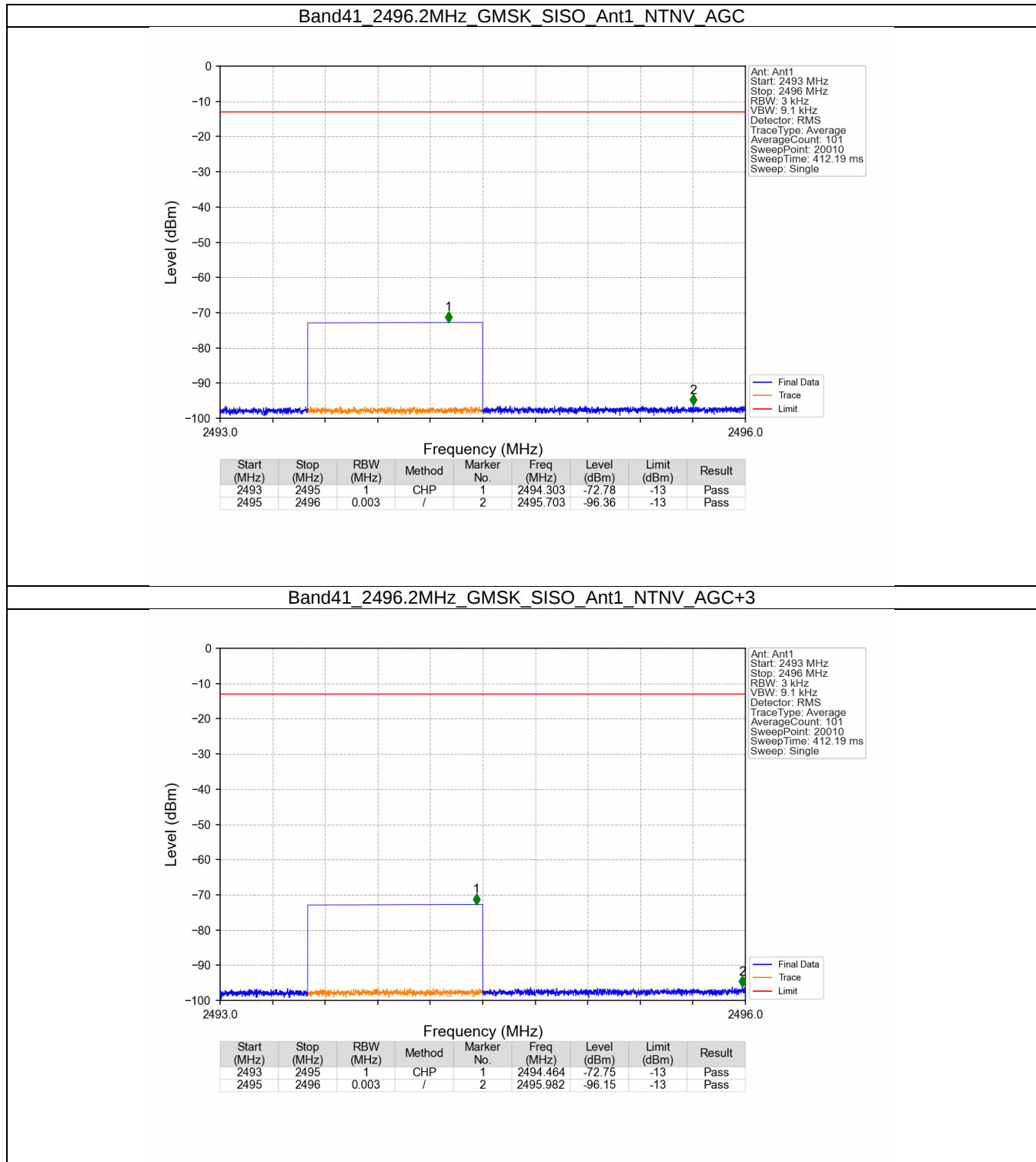
5. Out-of-band/out-of-block (including intermodulation) emissions

5.1 Band41

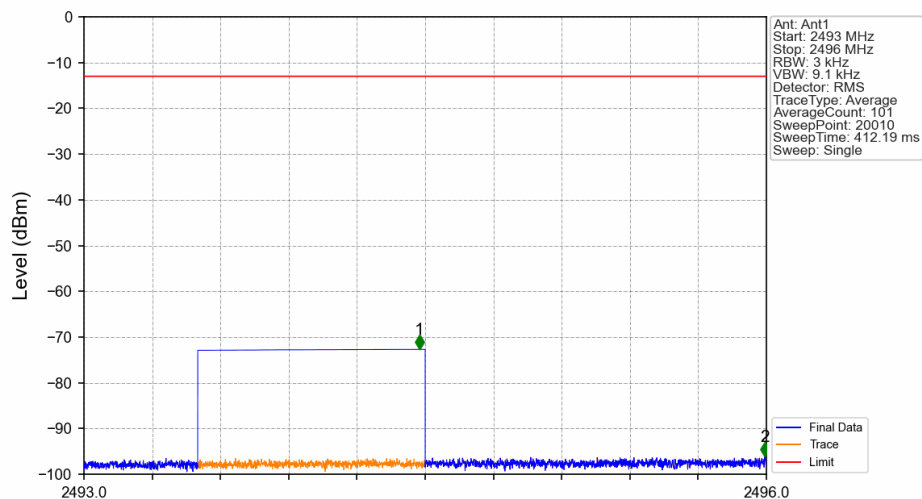
5.1.1 Test Result

Band: 41 / NTNV									
Signal				Channel	TX Type	ANT	OOB (dBm)		Verdict
Input	Type	Level (dBm)	Frequency (MHz)				Result	Limit	
Two	GMSK 0.2MHz	-3.8	2496.2	LCH	SISO	1	-72.78	Refer To Test Graph	Pass
		-0.8	2496.2	LCH	SISO	1	-72.75	Refer To Test Graph	Pass
One	GMSK 0.2MHz	-3.8	2496.2	LCH	SISO	1	-72.71	Refer To Test Graph	Pass
		-0.8	2496.2	LCH	SISO	1	-72.76	Refer To Test Graph	Pass
Two	GMSK 0.2MHz	-3.8	2689.8	HCH	SISO	1	-50.55	Refer To Test Graph	Pass
		-0.8	2689.8	HCH	SISO	1	-50.04	Refer To Test Graph	Pass
One	GMSK 0.2MHz	-3.8	2689.8	HCH	SISO	1	-50.71	Refer To Test Graph	Pass
		-0.8	2689.8	HCH	SISO	1	-49.91	Refer To Test Graph	Pass
Two	AWGN 5MHz	-3.8	2498.5	LCH	SISO	1	-52.82	Refer To Test Graph	Pass
		-0.8	2498.5	LCH	SISO	1	-50.10	Refer To Test Graph	Pass
One	AWGN 5MHz	-3.8	2498.5	LCH	SISO	1	-53.11	Refer To Test Graph	Pass
		-0.8	2498.5	LCH	SISO	1	-50.29	Refer To Test Graph	Pass
Two	AWGN 5MHz	-3.8	2687.5	HCH	SISO	1	-34.42	Refer To Test Graph	Pass
		-0.8	2687.5	HCH	SISO	1	-30.56	Refer To Test Graph	Pass
One	AWGN 5MHz	-3.8	2687.5	HCH	SISO	1	-44.75	Refer To Test Graph	Pass
		-0.8	2687.5	HCH	SISO	1	-43.31	Refer To Test Graph	Pass
Two	AWGN 100MHz	-3.8	2546	LCH	SISO	1	-43.43	Refer To Test Graph	Pass
		-0.8	2546	LCH	SISO	1	-47.03	Refer To Test Graph	Pass
One	AWGN 100MHz	-3.8	2546	LCH	SISO	1	-52.23	Refer To Test Graph	Pass
		-0.8	2546	LCH	SISO	1	-44.09	Refer To Test Graph	Pass
Two	AWGN 100MHz	-3.8	2640	HCH	SISO	1	-20.39	Refer To Test Graph	Pass
		-0.8	2640	HCH	SISO	1	-17.42	Refer To Test Graph	Pass
One	AWGN 100MHz	-3.8	2640	HCH	SISO	1	-19.06	Refer To Test Graph	Pass
		0.2	2640	HCH	SISO	1	-16.14	Refer To Test Graph	Pass

5.1.2 Test Graph

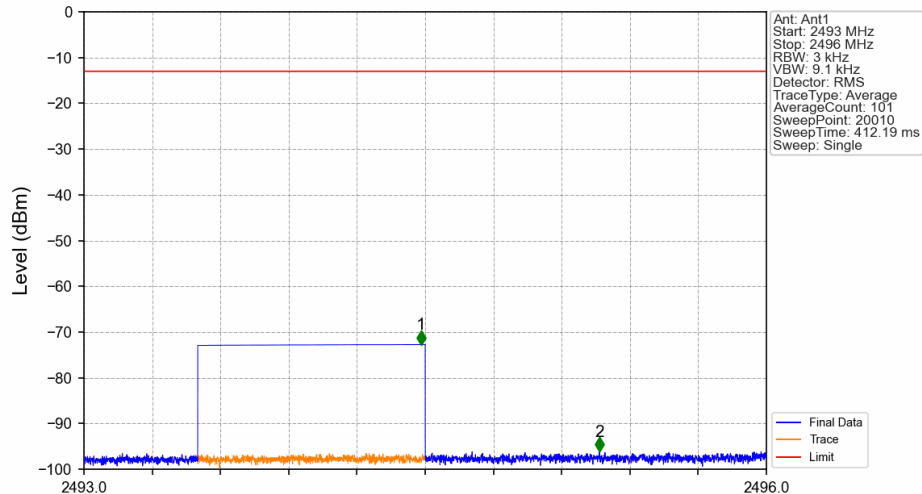


Band41_2496.2MHz_GMSK_SISO_Ant1_NTNV_AGC



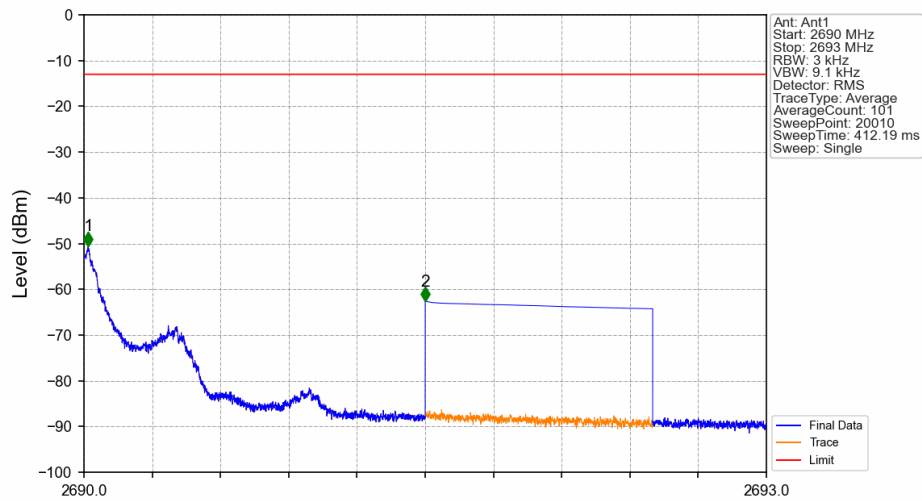
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	CHP	1	2494.475	-72.71	-13	Pass
2495	2496	0.003	/	2	2495.992	-96.20	-13	Pass

Band41_2496.2MHz_GMSK_SISO_Ant1_NTNV_AGC+3



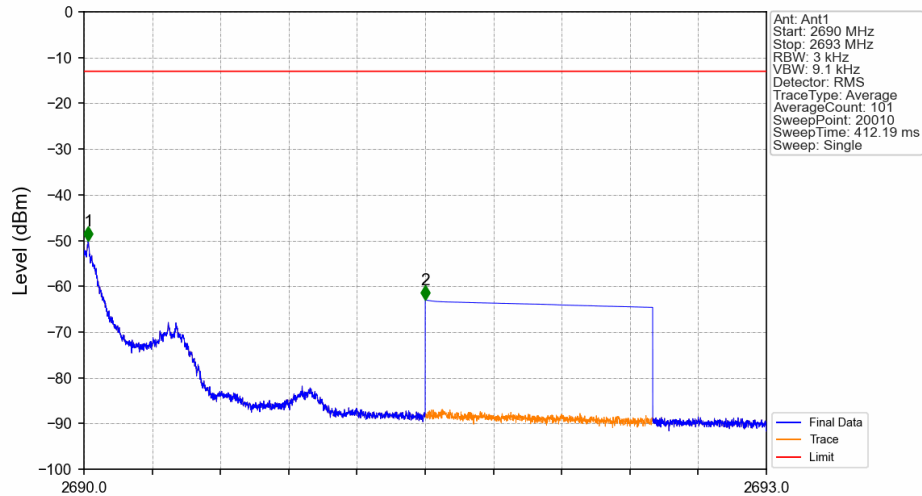
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	CHP	1	2494.482	-72.76	-13	Pass
2495	2496	0.003	/	2	2495.266	-96.10	-13	Pass

Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV_AGC



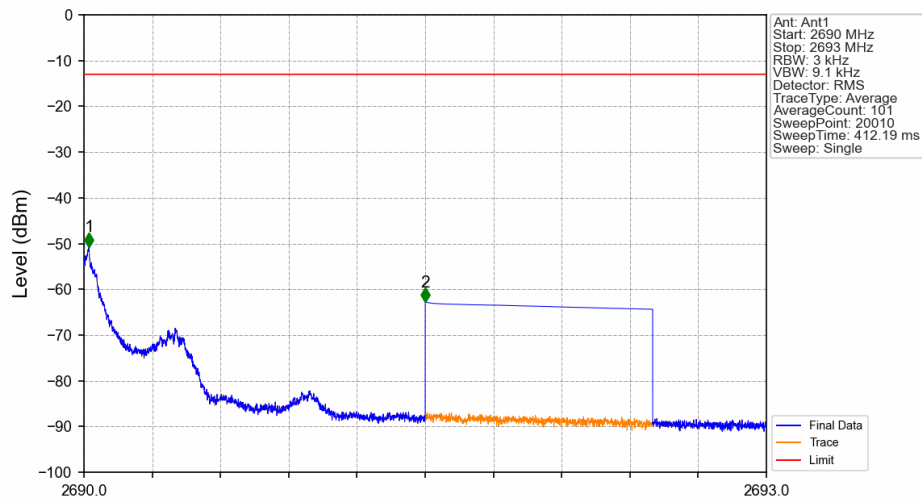
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.003	/	1	2690.019	-50.55	-13	Pass
2691	2693	1	CHP	2	2691.500	-62.65	-13	Pass

Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV_AGC+3



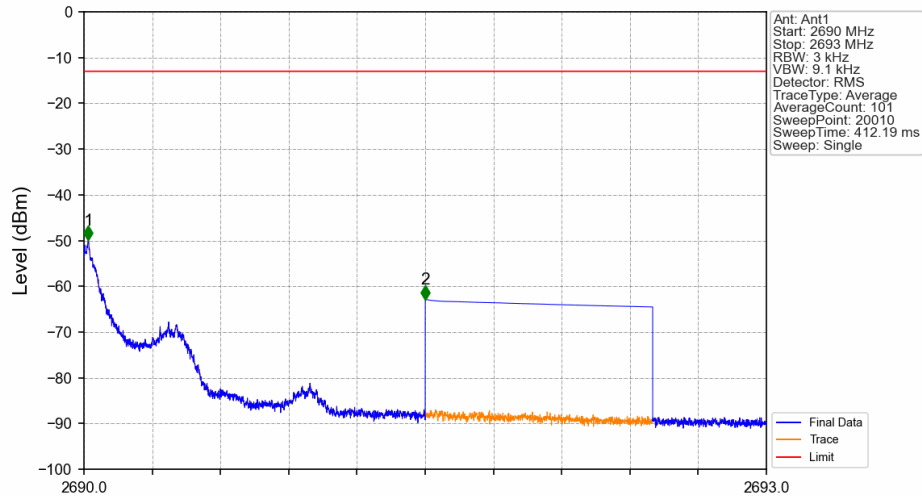
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.003	/	1	2690.019	-50.04	-13	Pass
2691	2693	1	CHP	2	2691.500	-63.00	-13	Pass

Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV_AGC



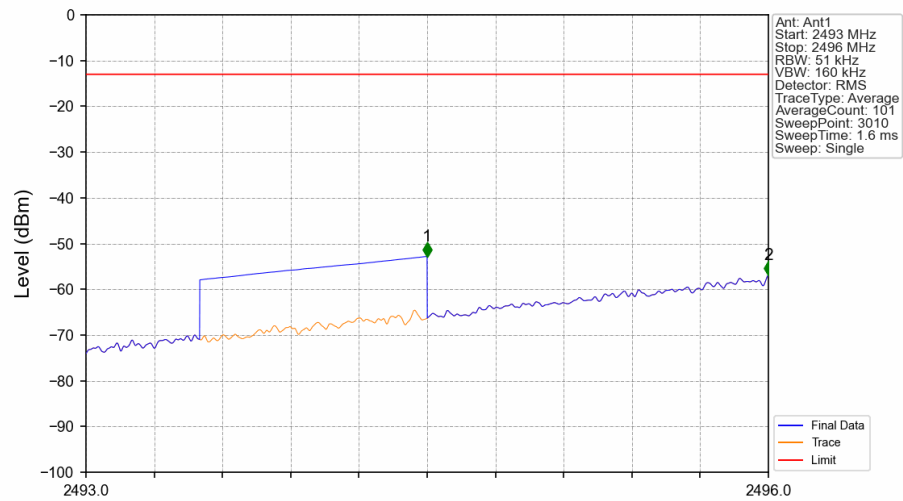
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.003	/	1	2690.022	-50.71	-13	Pass
2691	2693	1	CHP	2	2691.500	-62.84	-13	Pass

Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV_AGC+3



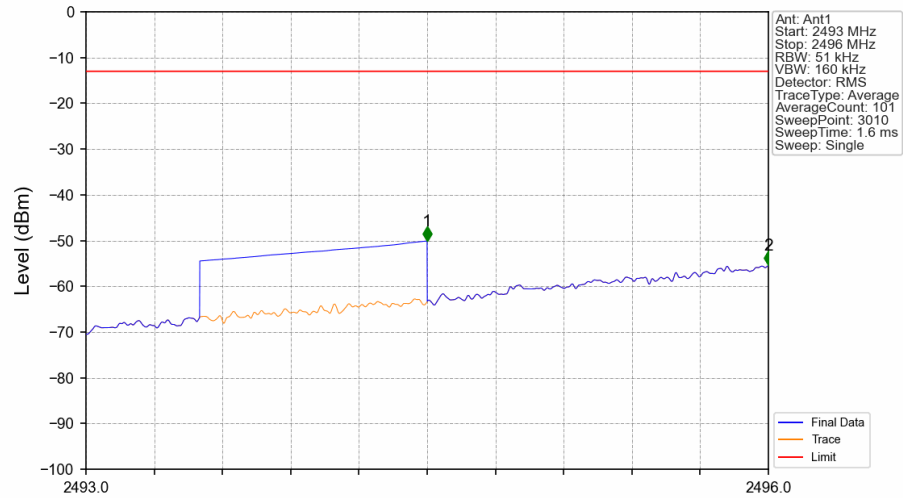
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.003	/	1	2690.019	-49.91	-13	Pass
2691	2693	1	CHP	2	2691.500	-62.87	-13	Pass

Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV_AGC



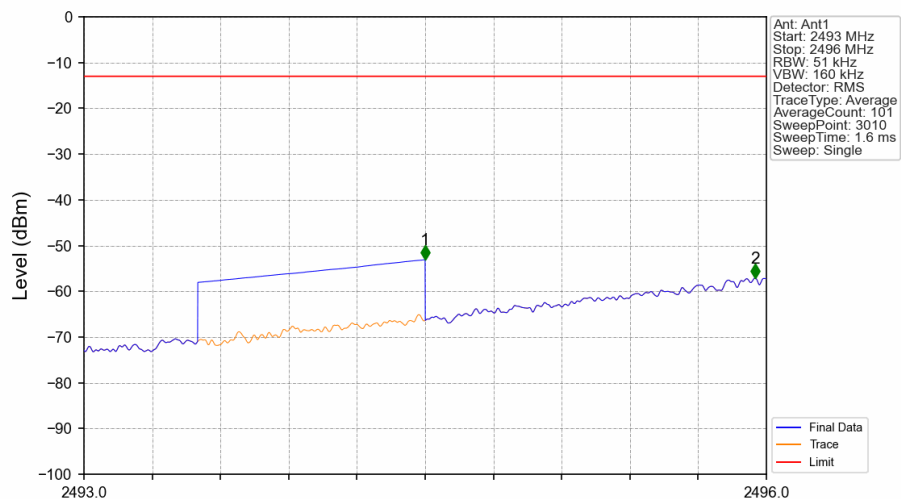
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	CHP	1	2494.500	-52.82	-13	Pass
2495	2496	0.051	/	2	2496.000	-56.88	-13	Pass

Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



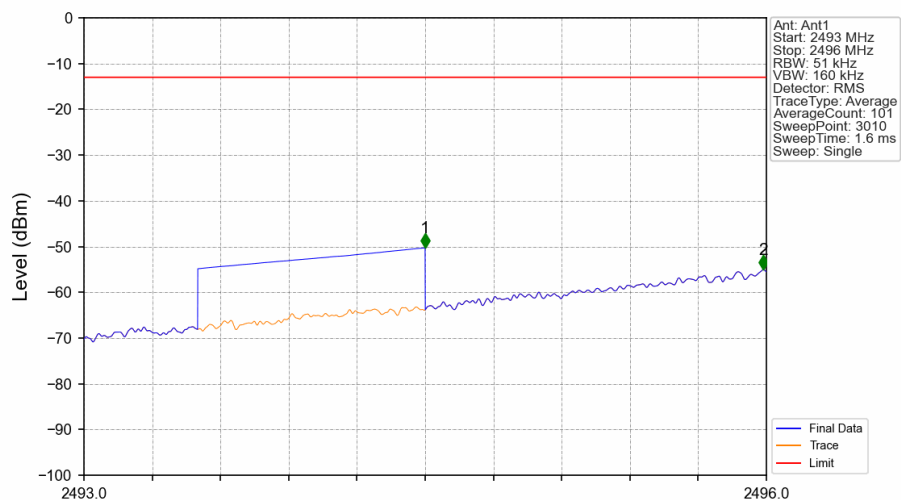
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	CHP	1	2494.500	-50.10	-13	Pass
2495	2496	0.051	/	2	2496.000	-55.39	-13	Pass

Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV_AGC



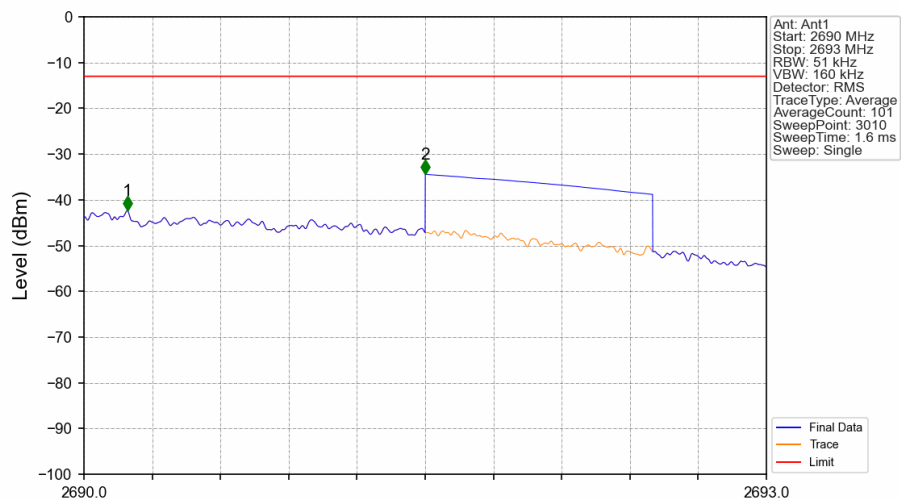
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	CHP	1	2494.499	-53.11	-13	Pass
2495	2496	0.051	/	2	2495.950	-57.14	-13	Pass

Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



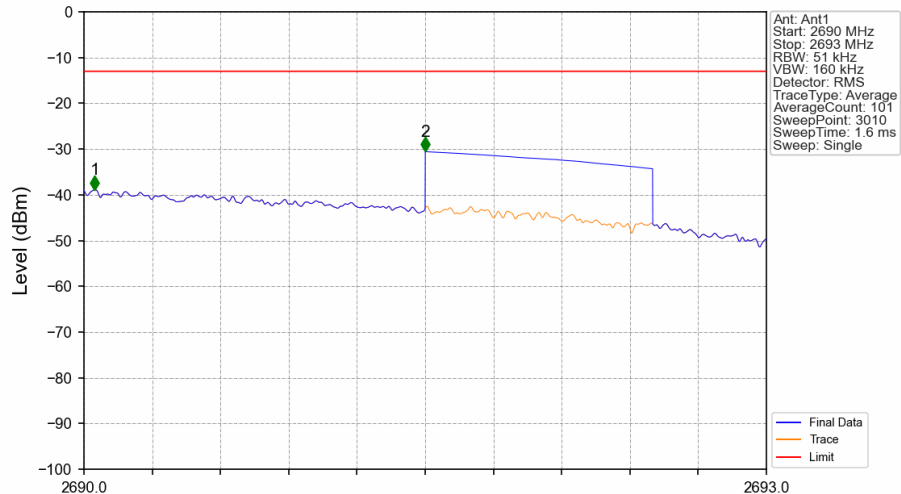
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	CHP	1	2494.500	-50.29	-13	Pass
2495	2496	0.051	/	2	2495.986	-55.06	-13	Pass

Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC



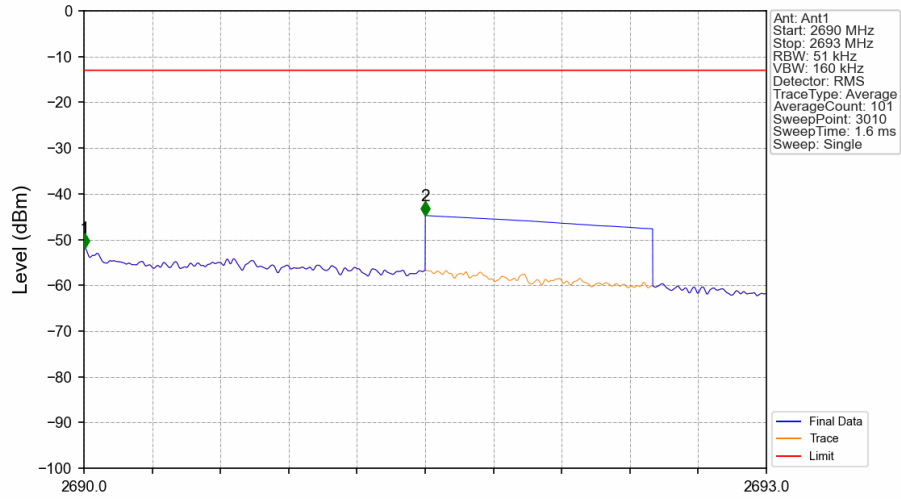
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.051	/	1	2690.190	-42.38	-13	Pass
2691	2693	1	CHP	2	2691.500	-34.42	-13	Pass

Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3

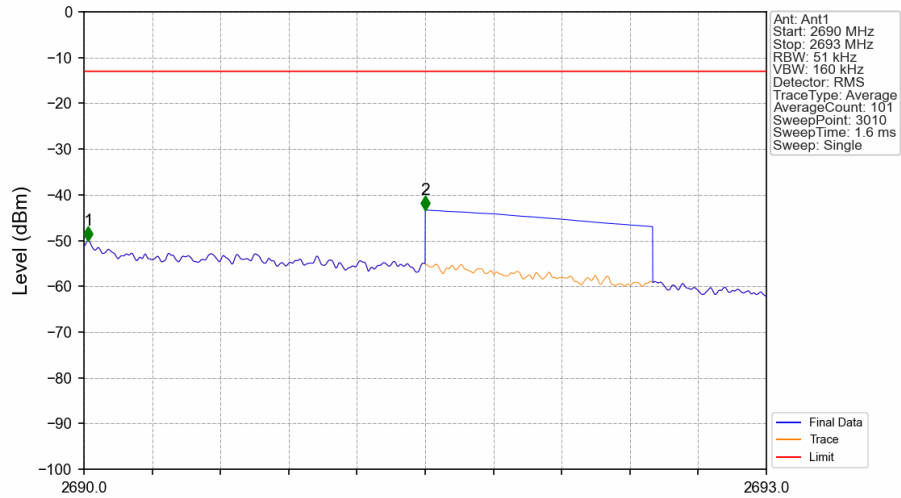


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.051	/	1	2690.048	-38.88	-13	Pass
2691	2693	1	CHP	2	2691.500	-30.56	-13	Pass

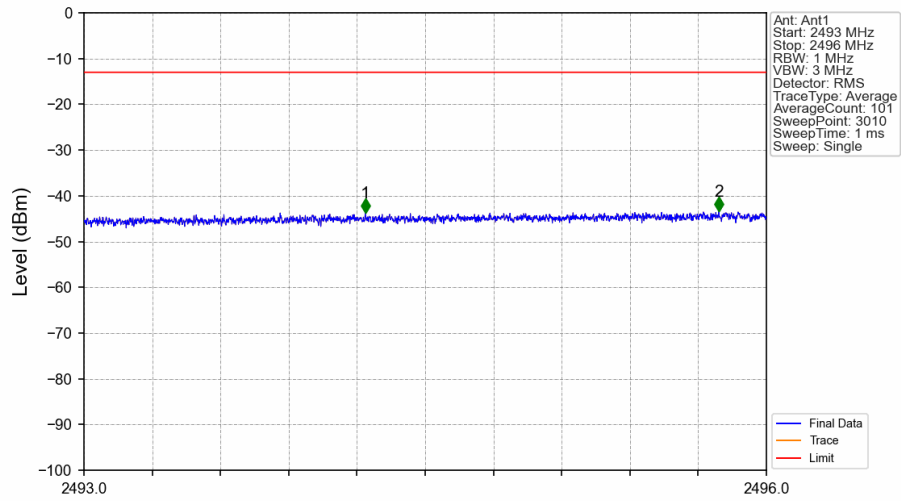
Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3

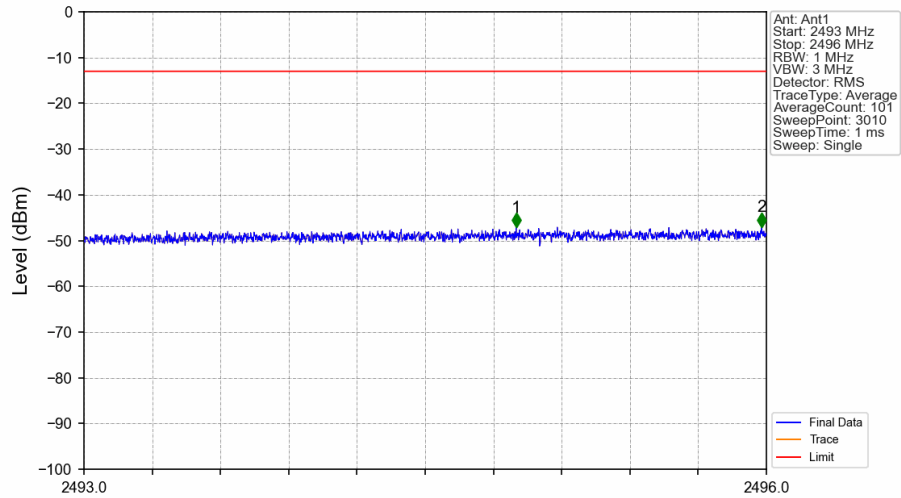


Band41_2546MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



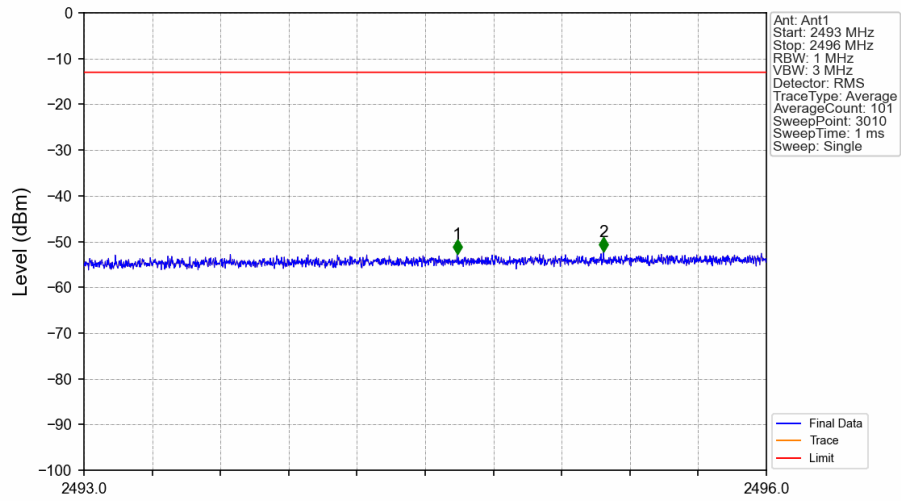
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	/	1	2494.236	-43.76	-13	Pass
2495	2496	1.058	/	2	2495.791	-43.43	-13	Pass

Band41_2546MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3

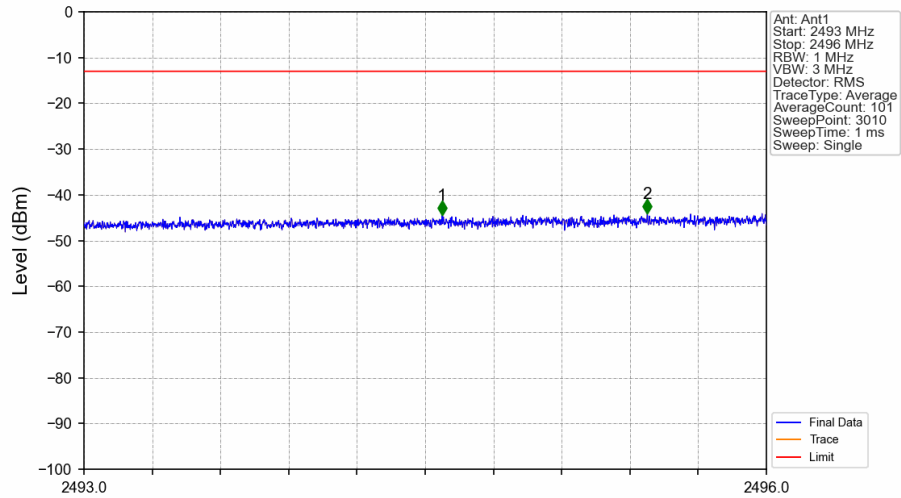


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	/	1	2494.900	-47.17	-13	Pass
2495	2496	1.058	/	2	2495.979	-47.03	-13	Pass

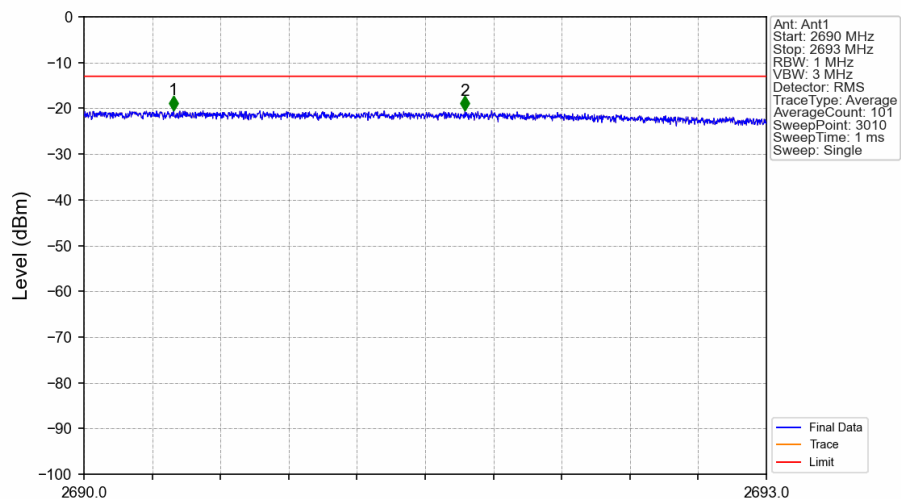
Band41_2546MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Band41_2546MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3

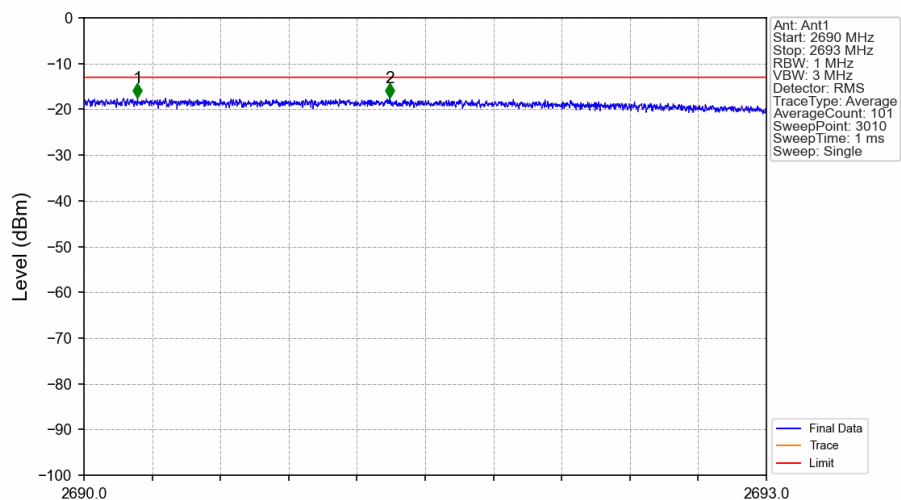


Band41_2640MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



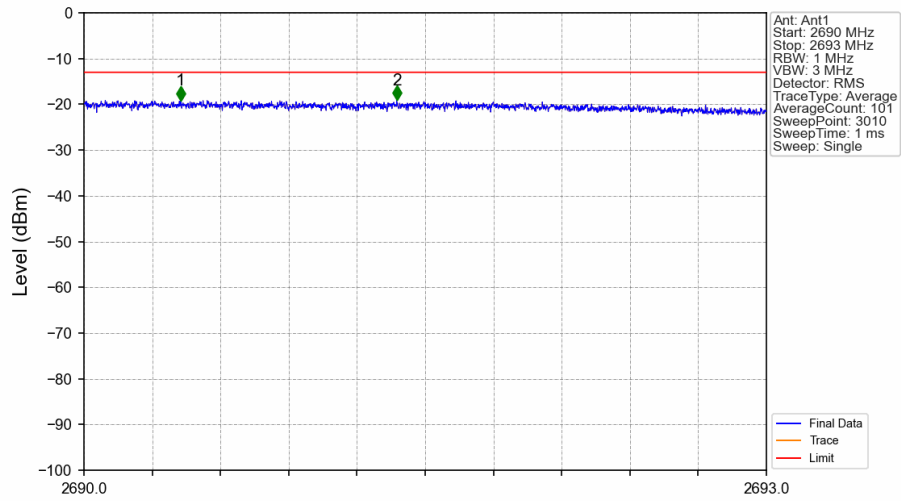
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	1.058	/	1	2690.394	-20.40	-13	Pass
2691	2693	1	/	2	2691.675	-20.45	-13	Pass

Band41_2640MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



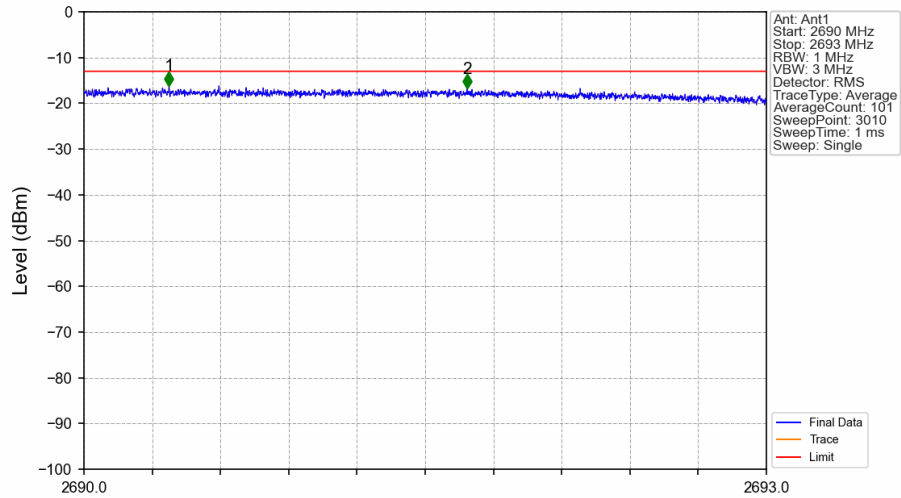
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	1.058	/	1	2690.235	-17.42	-13	Pass
2691	2693	1	/	2	2691.343	-17.52	-13	Pass

Band41_2640MHz_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	2690.426	-19.13	-13	Pass
2691	2693	1	/	2	2691.375	-19.06	-13	Pass

Band41_2640MHz_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	2690.374	-16.14	-13	Pass
2691	2693	1	/	2	2691.684	-16.71	-13	Pass

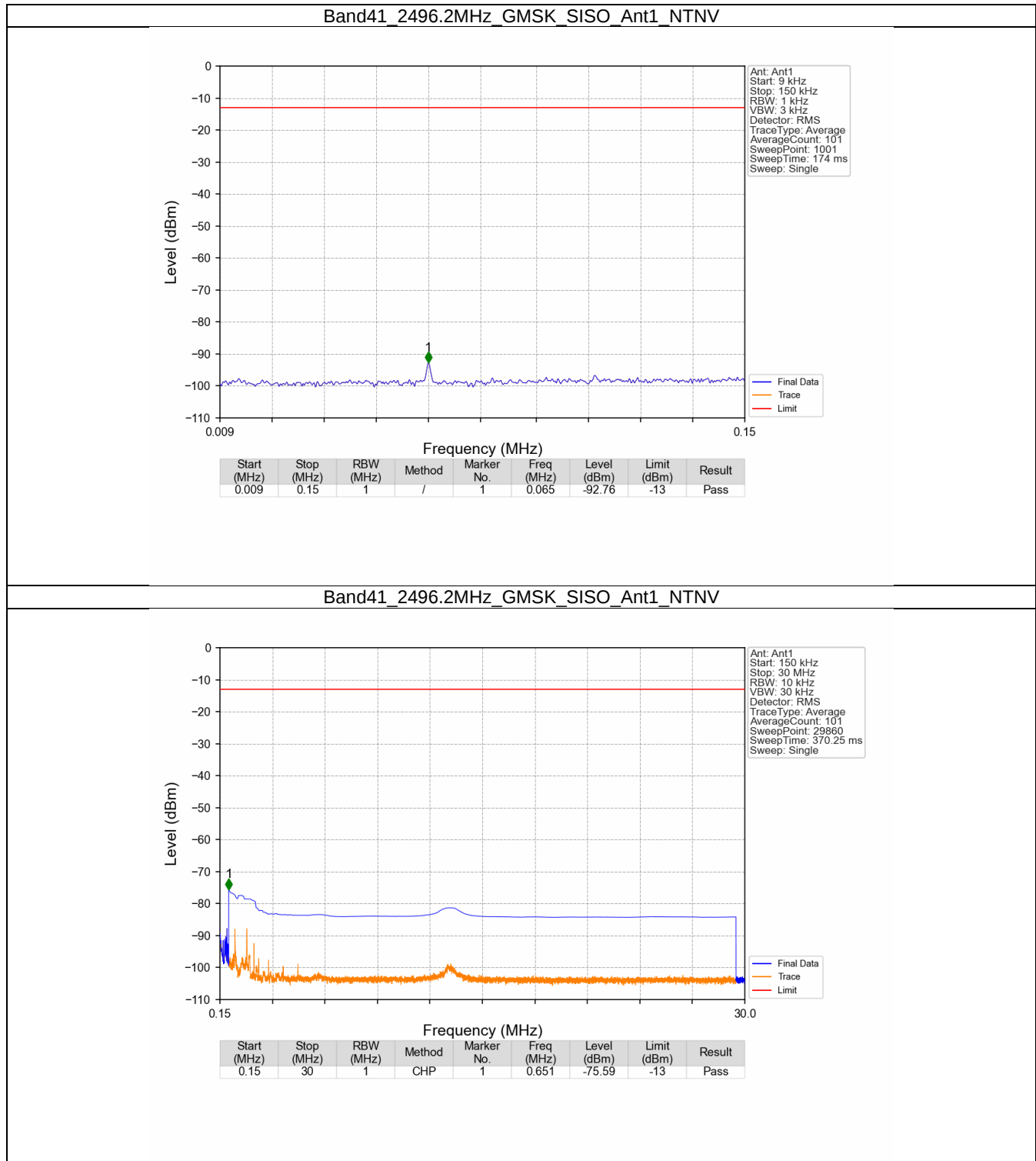
6. Spurious emissions

6.1 Band41

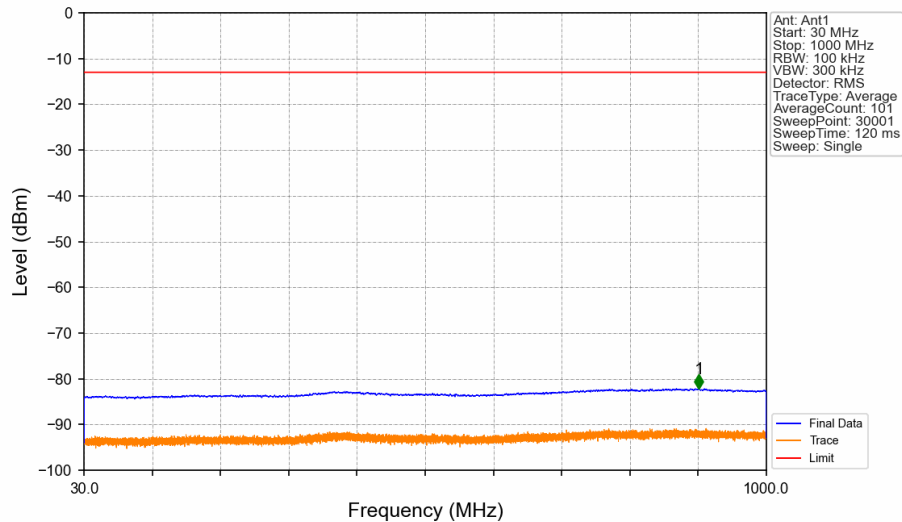
6.1.1 Test Result

Band: 41 / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
GMSK 0.2MHz	-3.8	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	-3.8	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	-3.8	2546	LCH	SISO	1	Refer To Test Graph		Pass
		2593	MCH	SISO	1	Refer To Test Graph		Pass
		2640	HCH	SISO	1	Refer To Test Graph		Pass

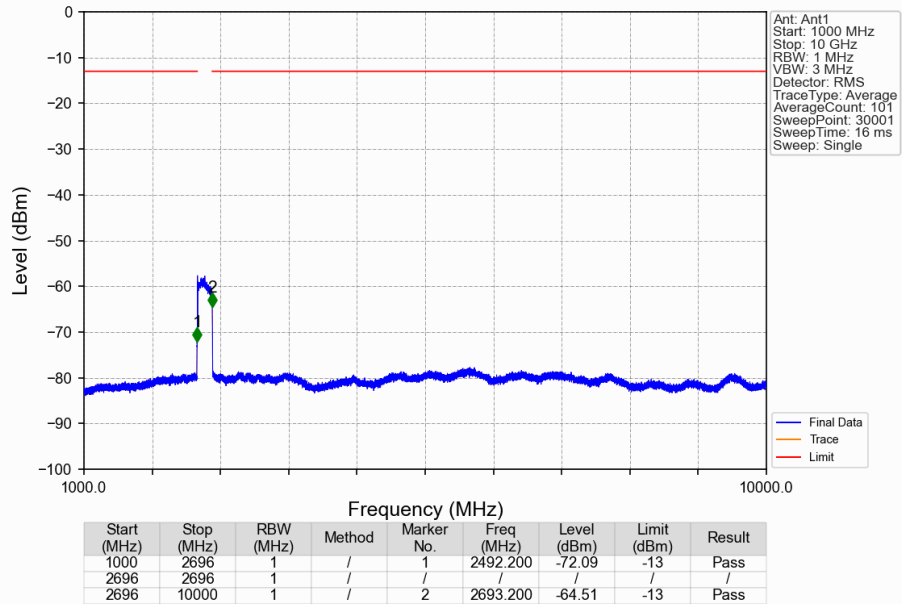
6.1.2 Test Graph



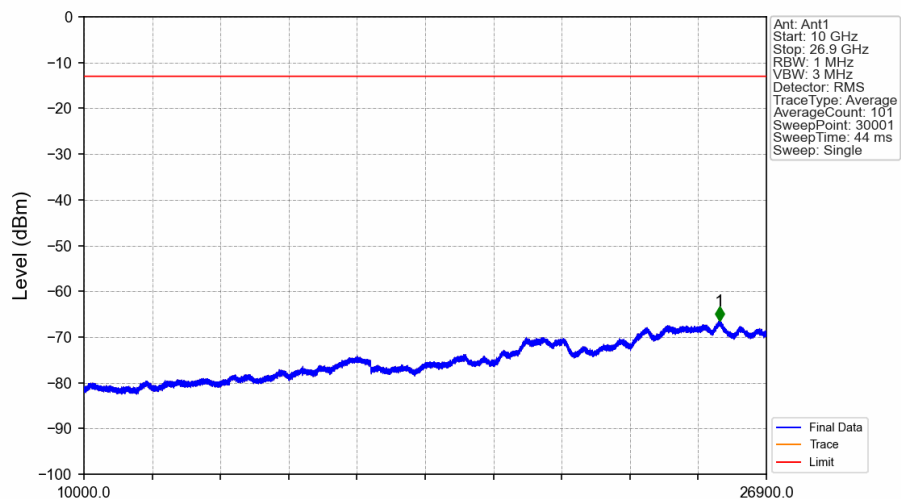
Band41_2496.2MHz_GMSK_SISO_Ant1_NTNV



Band41_2496.2MHz_GMSK_SISO_Ant1_NTNV

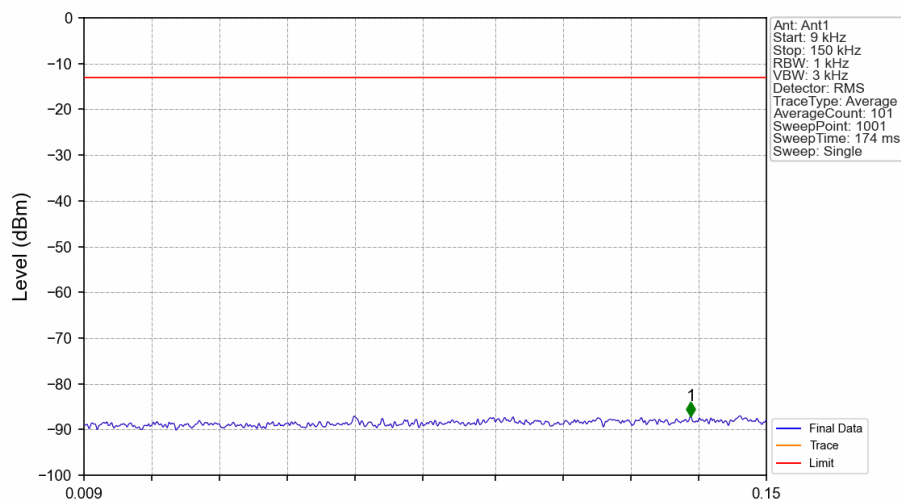


Band41_2496.2MHz_GMSK_SISO_Ant1_NTNV



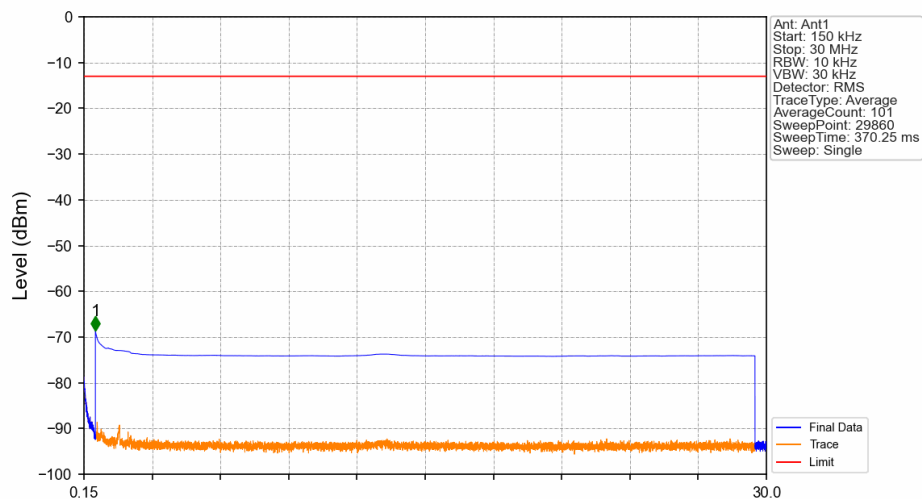
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	25740.097	-66.48	-13	Pass

Band41_2593MHz_GMSK_SISO_Ant1_NTNV

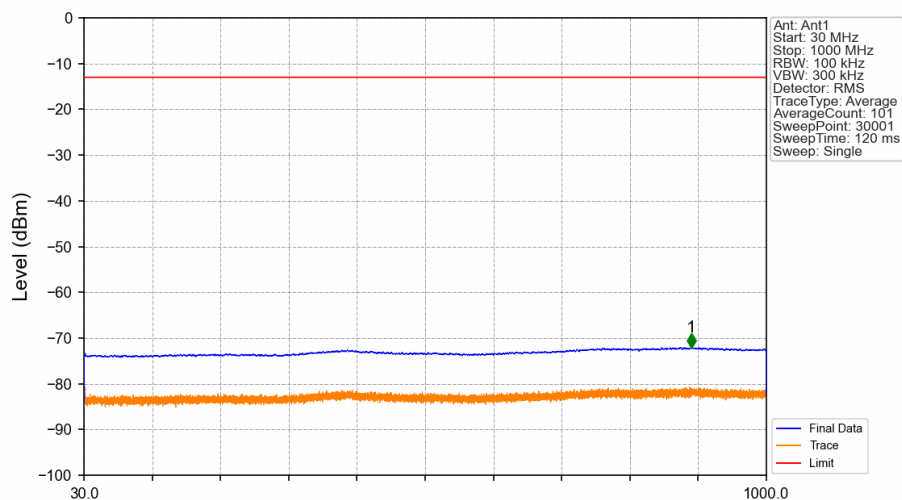


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.134	-87.04	-13	Pass

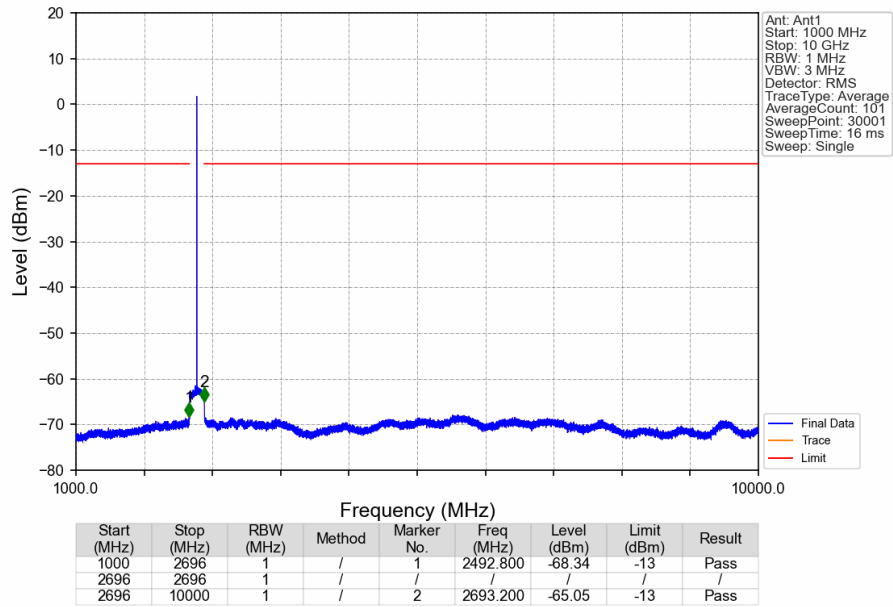
Band41_2593MHz_GMSK_SISO_Ant1_NTNV



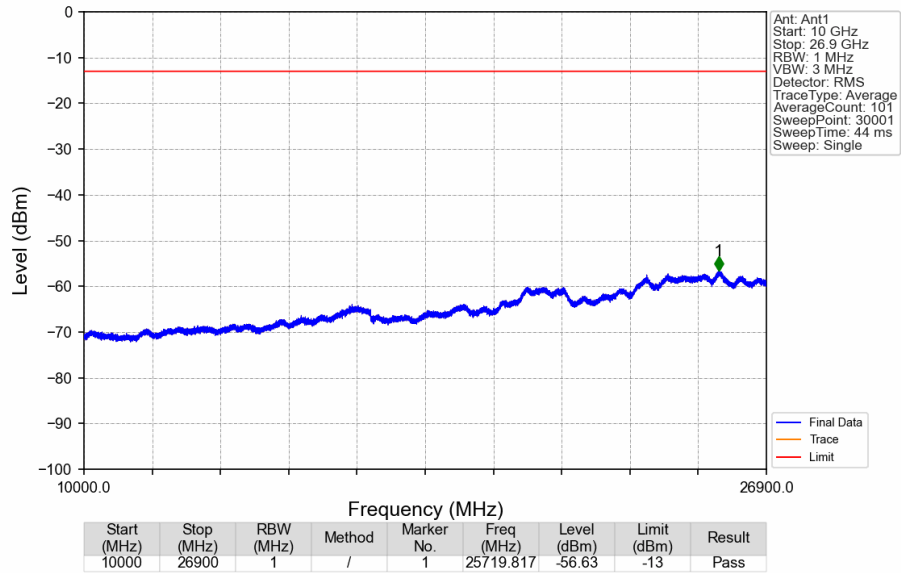
Band41_2593MHz_GMSK_SISO_Ant1_NTNV



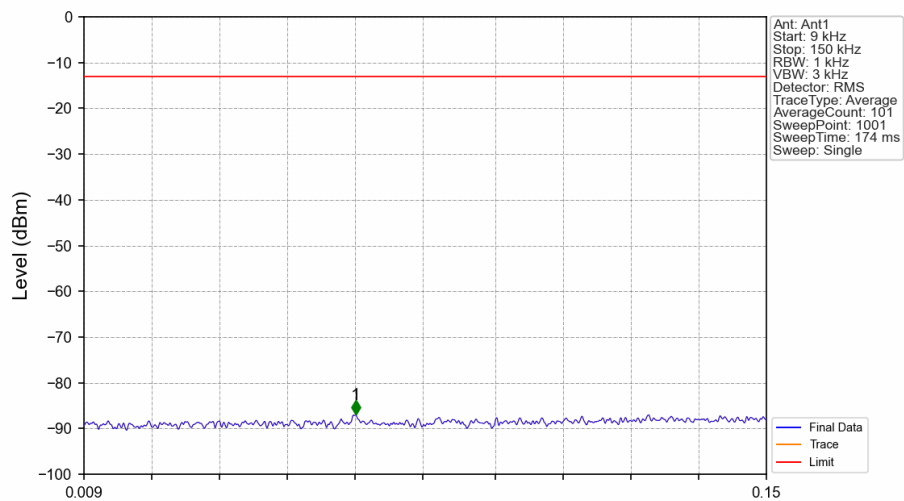
Band41_2593MHz_GMSK_SISO_Ant1_NTNV



Band41_2593MHz_GMSK_SISO_Ant1_NTNV

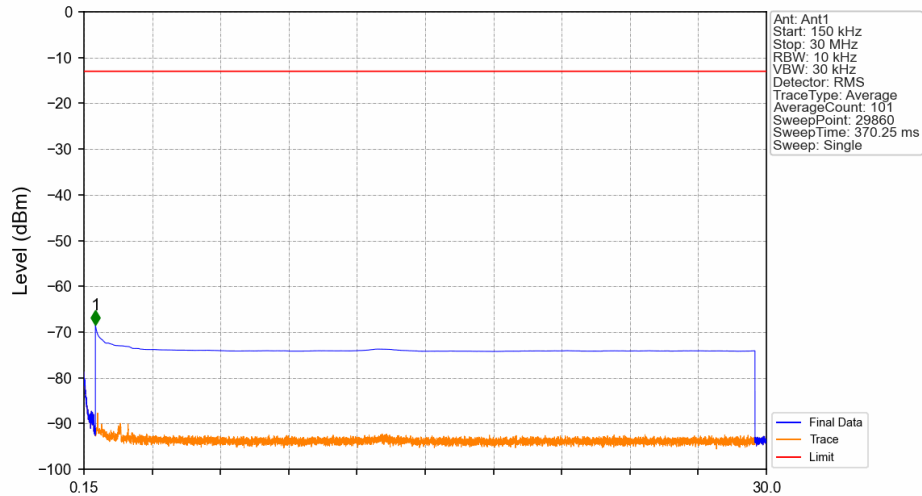


Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV



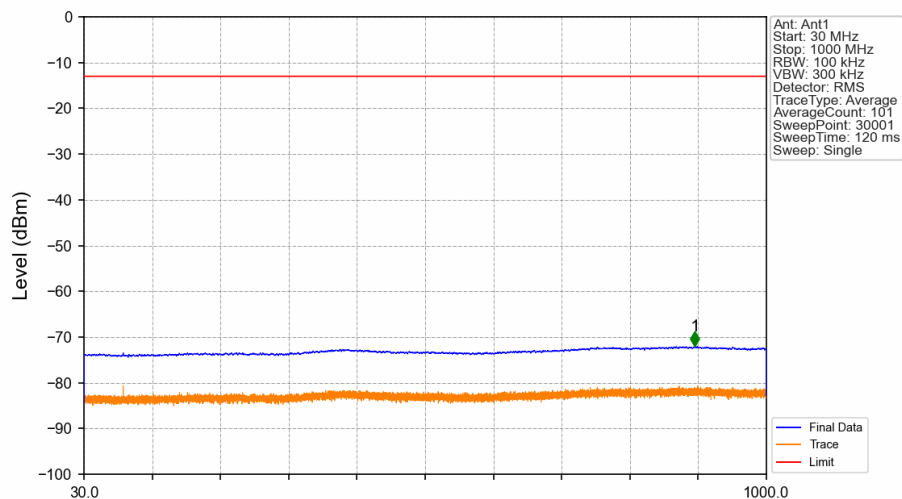
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.065	-86.98	-13	Pass

Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV

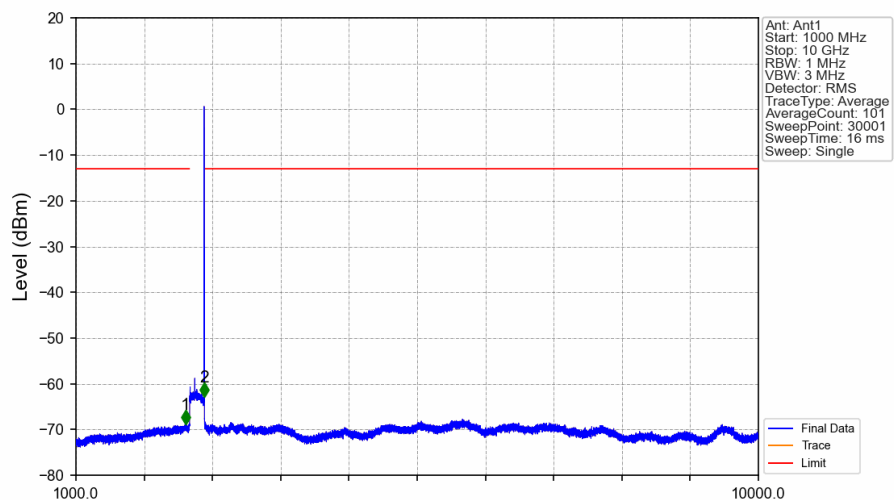


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	1	CHP	1	0.651	-68.47	-13	Pass

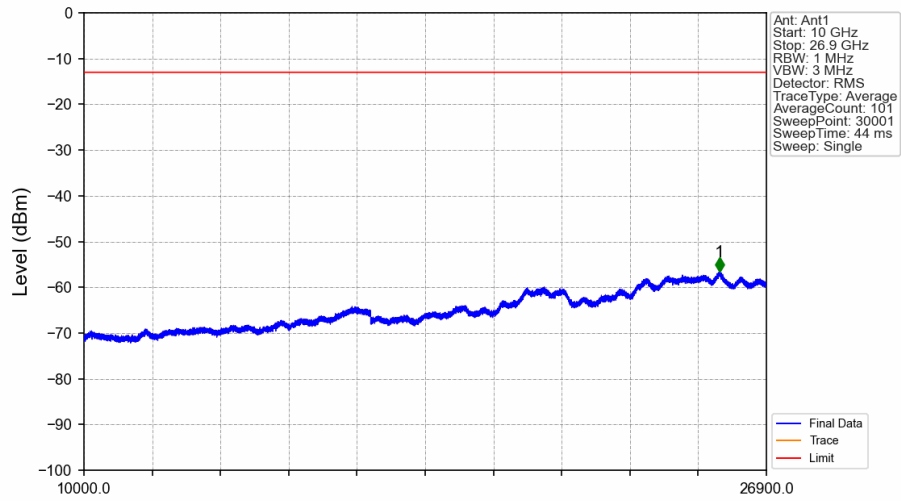
Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV



Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV

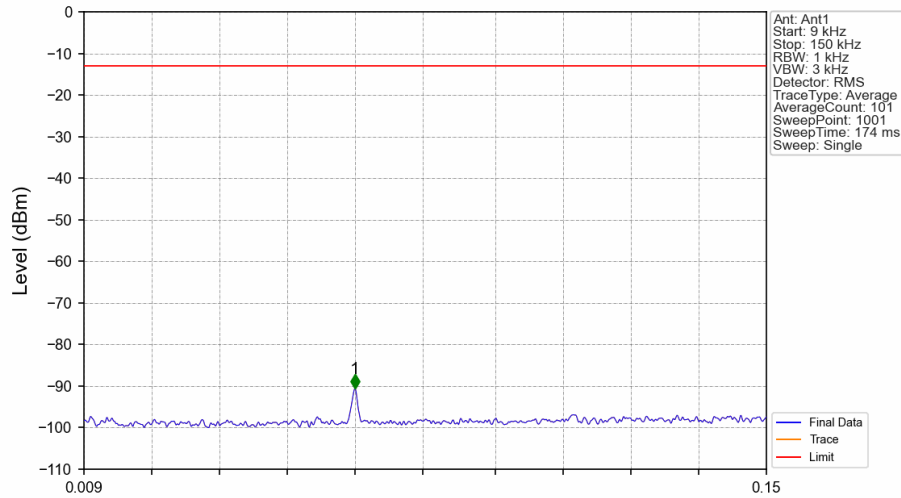


Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV



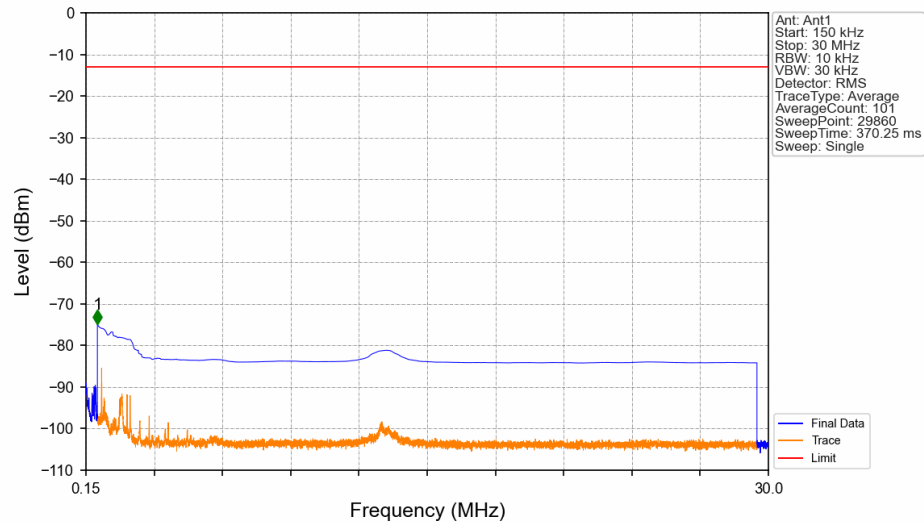
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	25738.970	-56.60	-13	Pass

Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV

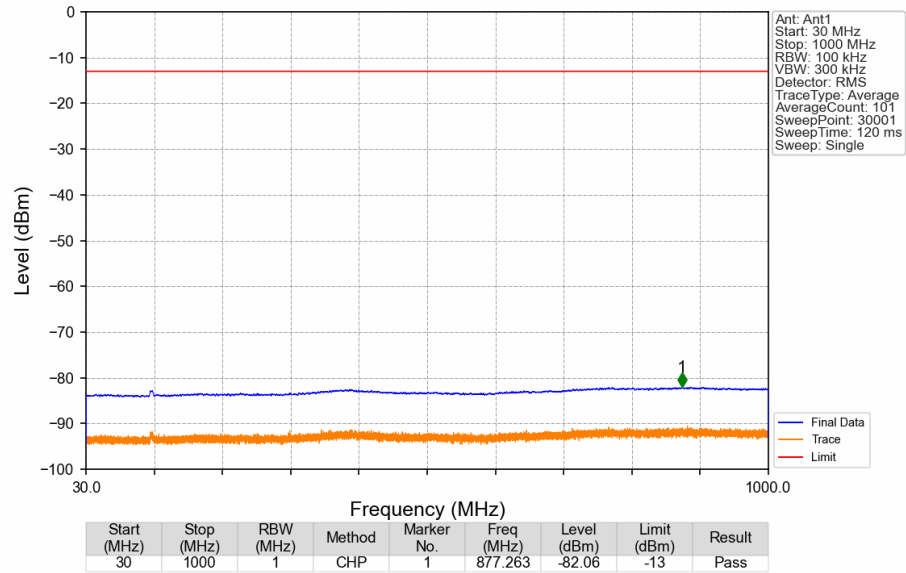


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.065	-90.61	-13	Pass

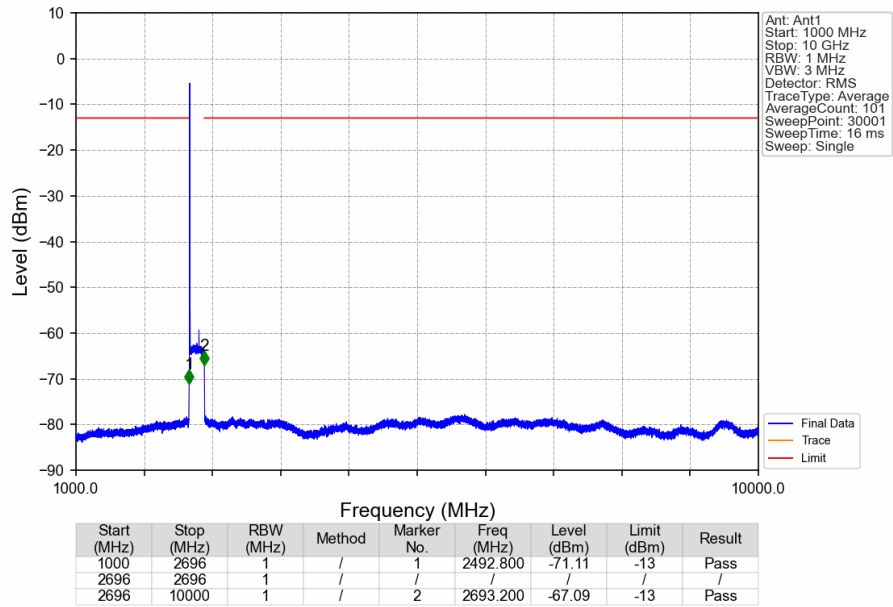
Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV



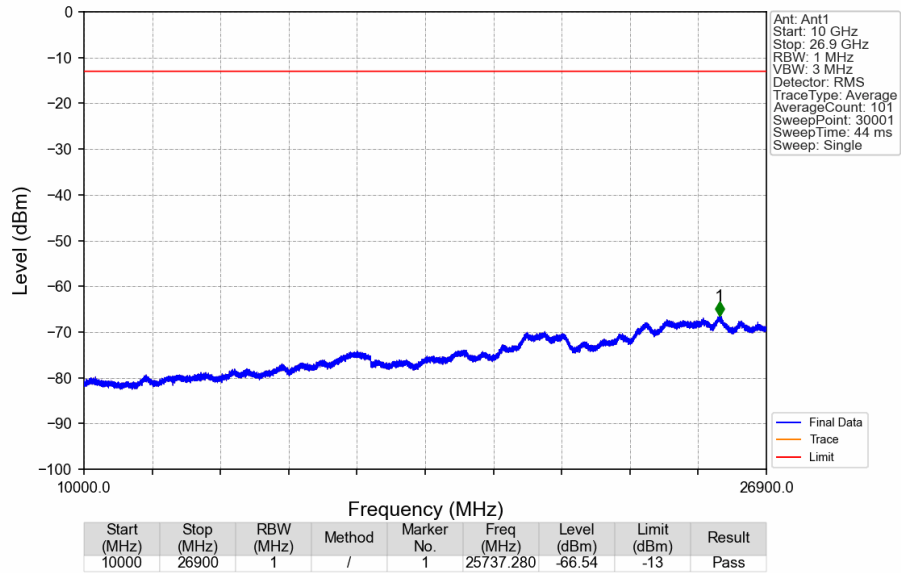
Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV



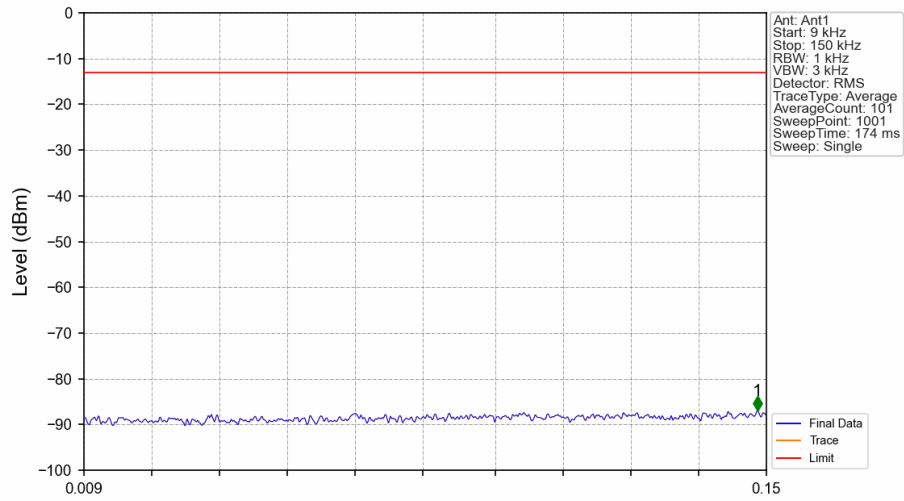
Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV



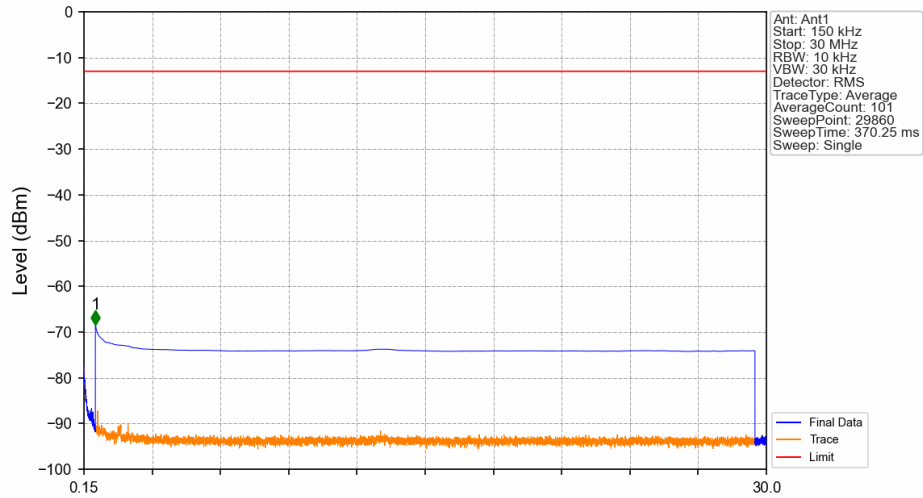
Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV



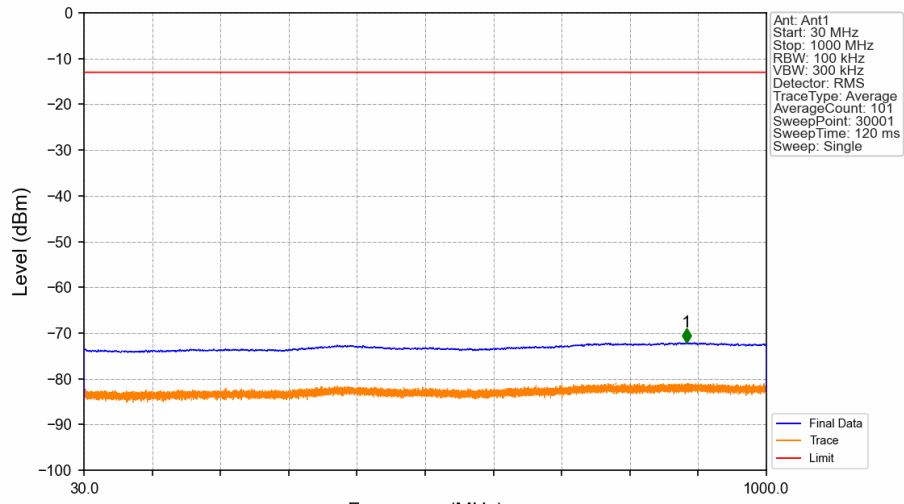
Band41_2593MHz_AWGN_SISO_Ant1_NTNV



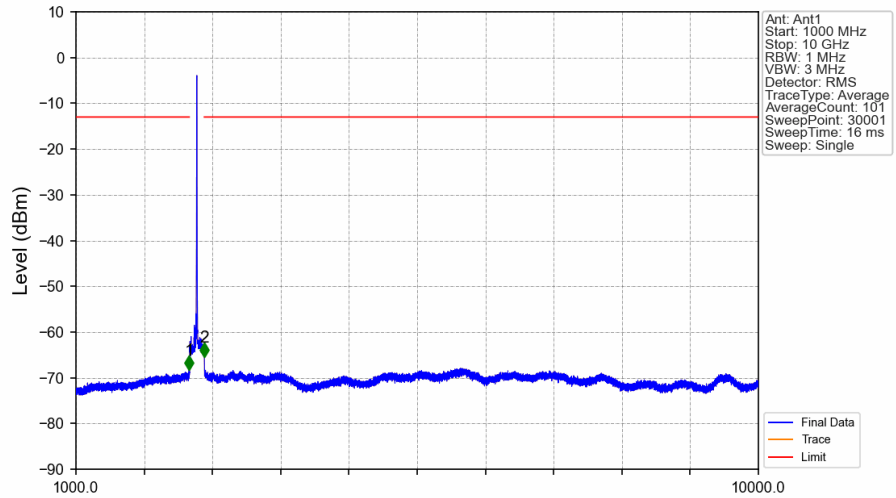
Band41_2593MHz_AWGN_SISO_Ant1_NTNV



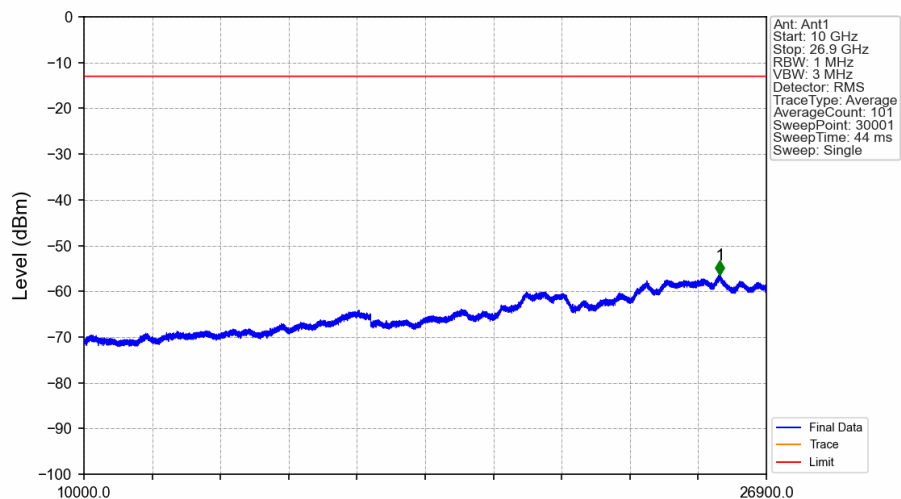
Band41_2593MHz_AWGN_SISO_Ant1_NTNV



Band41_2593MHz_AWGN_SISO_Ant1_NTNV

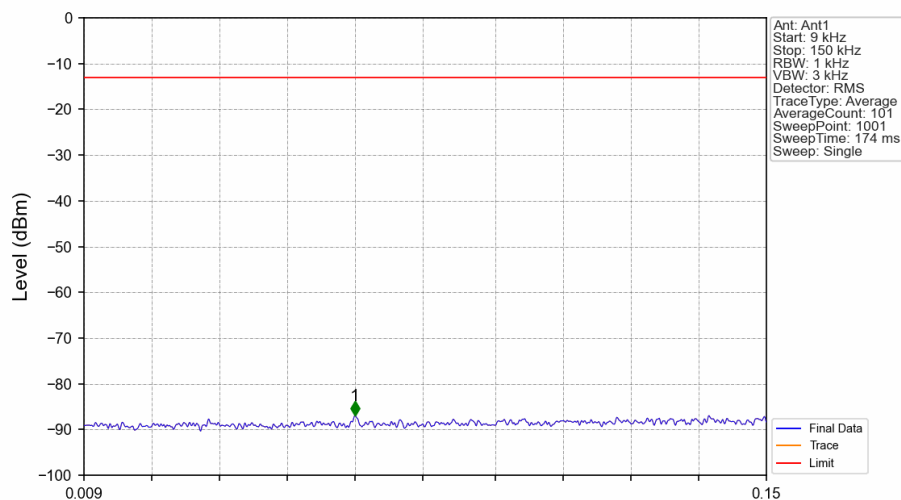


Band41_2593MHz_AWGN_SISO_Ant1_NTNV



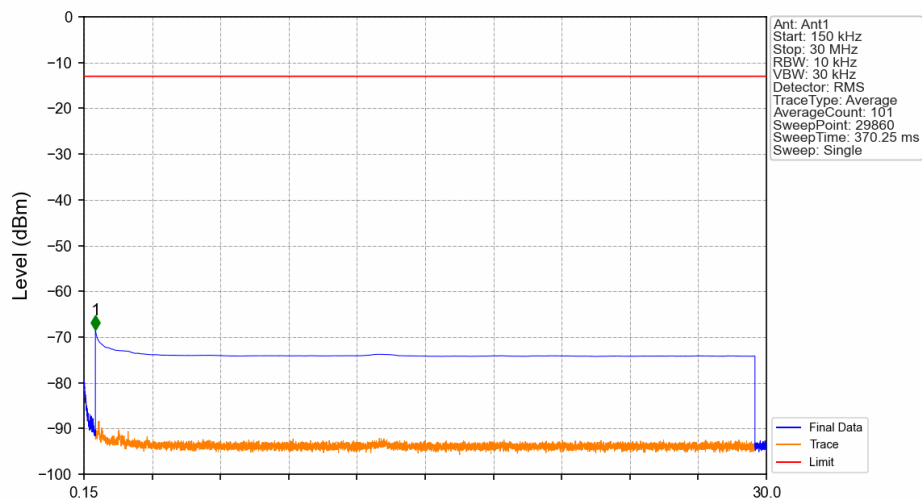
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	25750.800	-56.44	-13	Pass

Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV

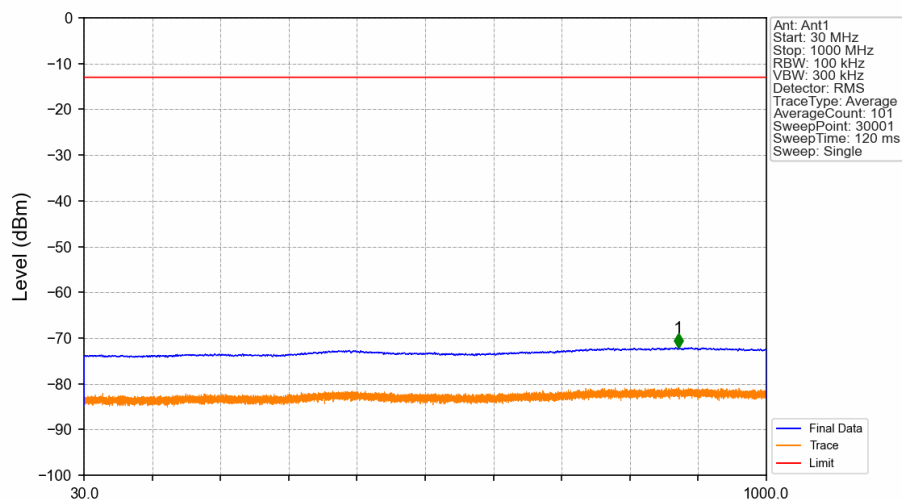


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.065	-86.93	-13	Pass

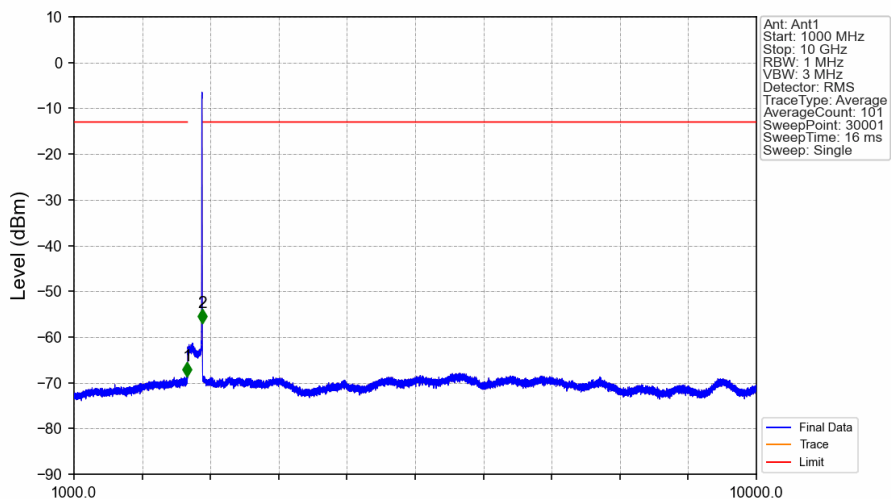
Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV



Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV

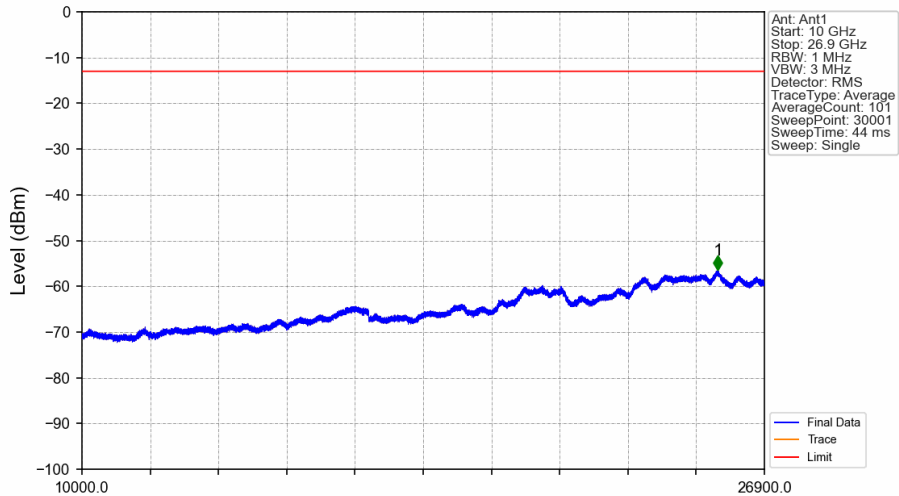


Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV



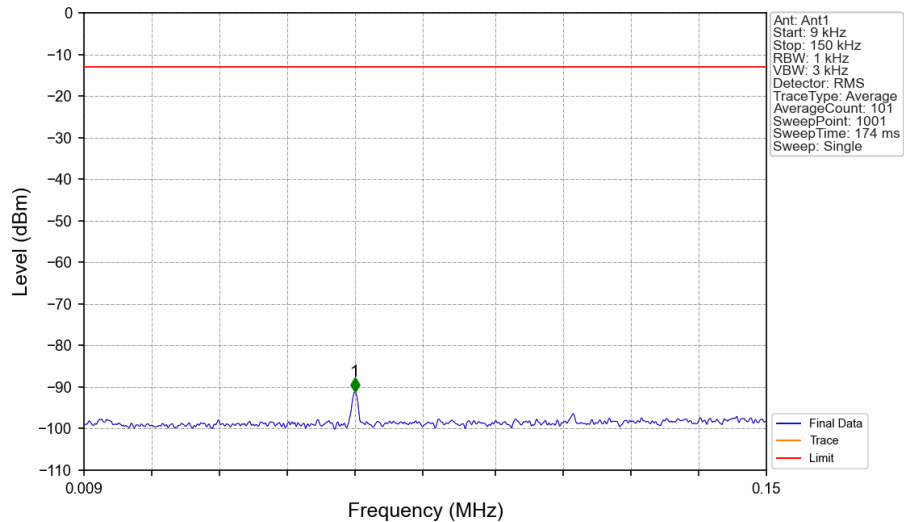
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2696	1	/	1	2491.600	-68.59	-13	Pass
2696	2696	1	/	/	/	/	/	/
2696	10000	1	/	2	2693.200	-56.93	-13	Pass

Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV

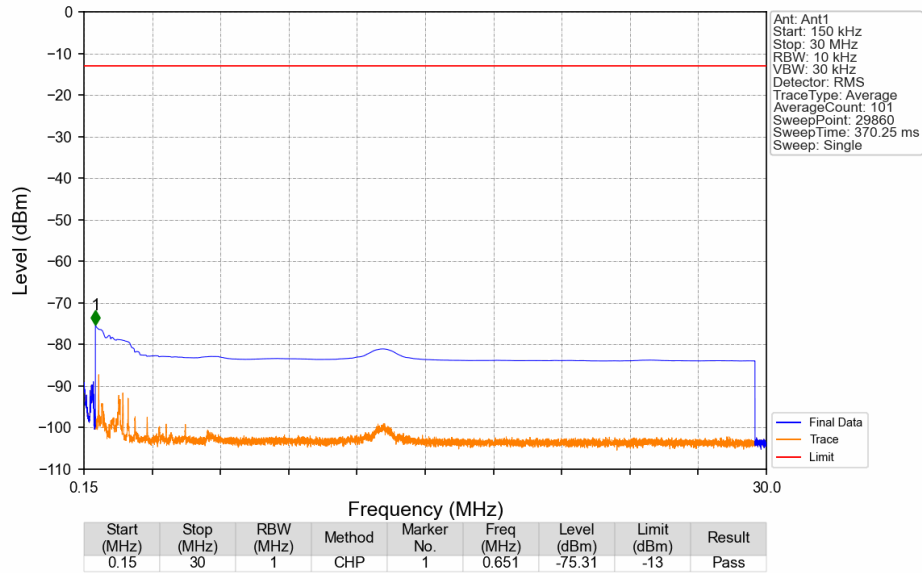


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	25746.293	-56.46	-13	Pass

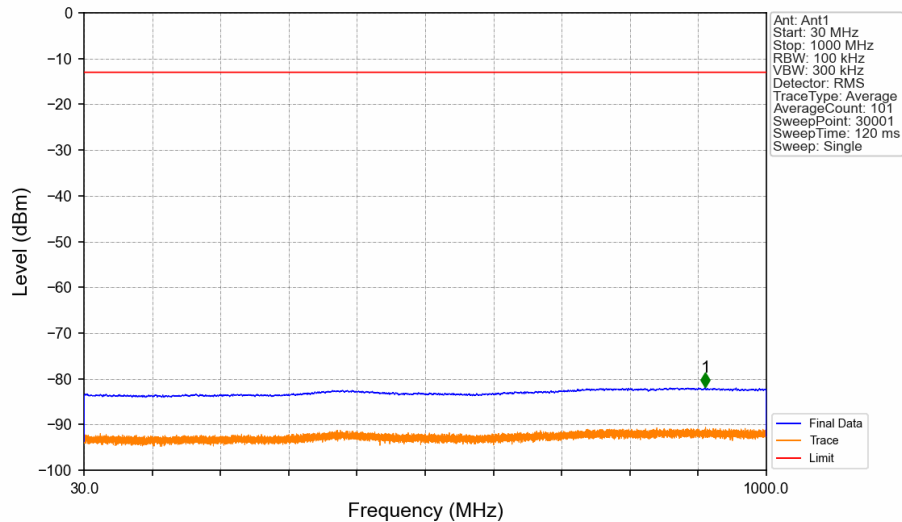
Band41_2546MHz_Broad100MHz_SISO_Ant1_NTNV



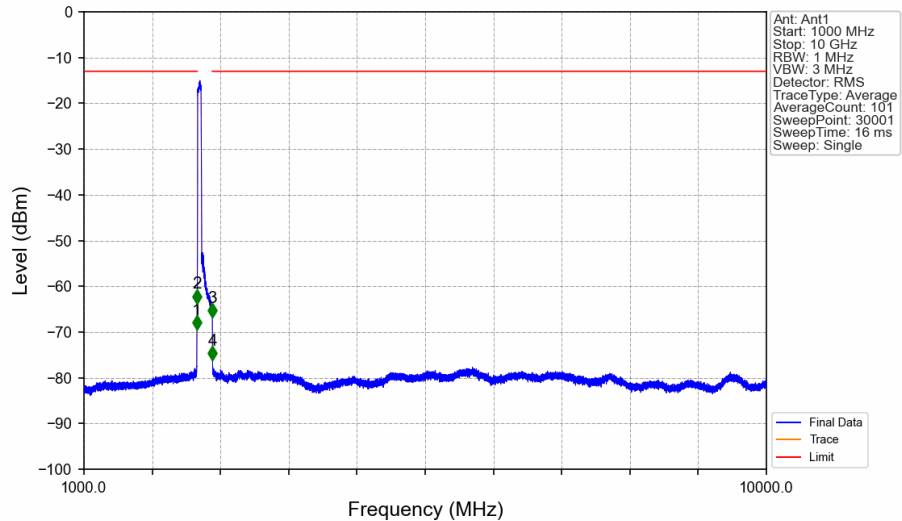
Band41_2546MHz_Broad100MHz_SISO_Ant1_NTNV



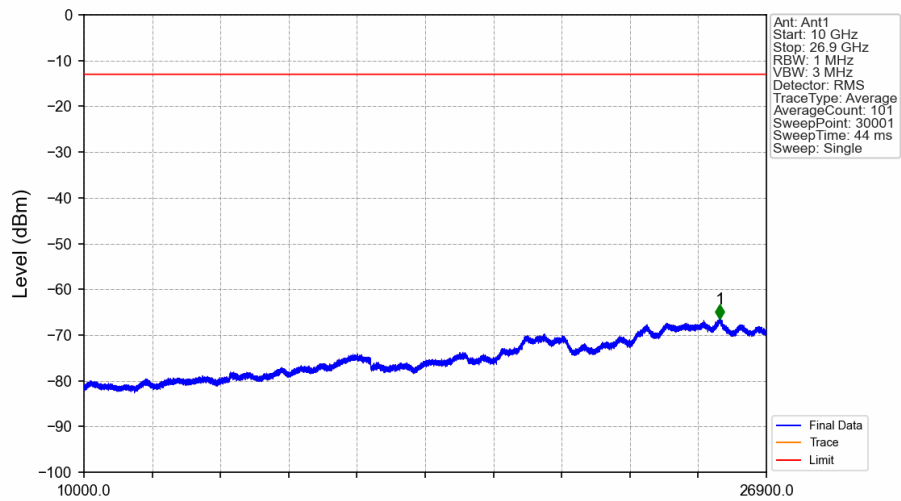
Band41_2546MHz_Broad100MHz_SISO_Ant1_NTNV



Band41_2546MHz_Broad100MHz_SISO_Ant1_NTNV

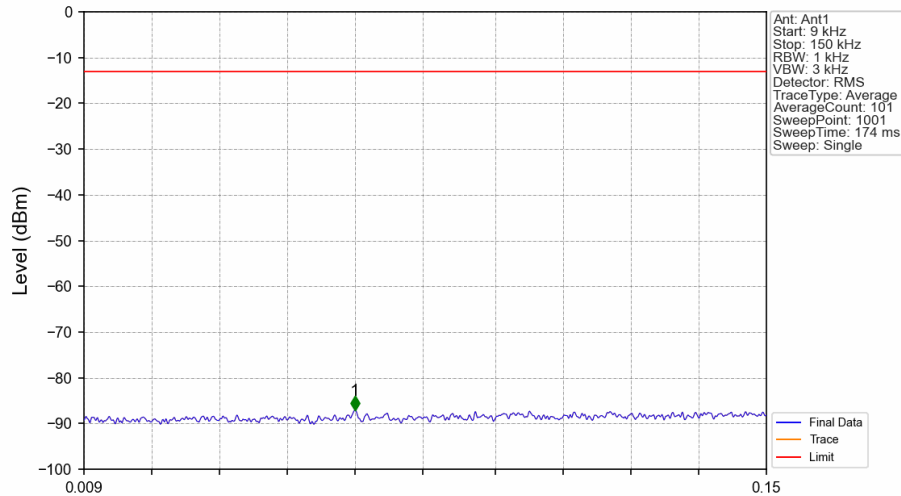


Band41_2546MHz_Broad100MHz_SISO_Ant1_NTNV



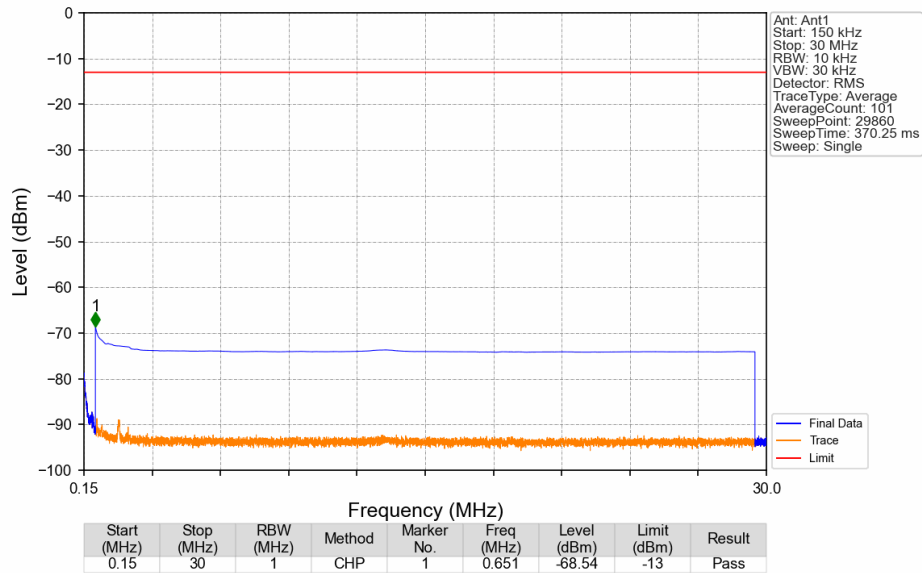
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	25743.477	-66.50	-13	Pass

Band41_2593MHz_Broad100MHz_SISO_Ant1_NTNV

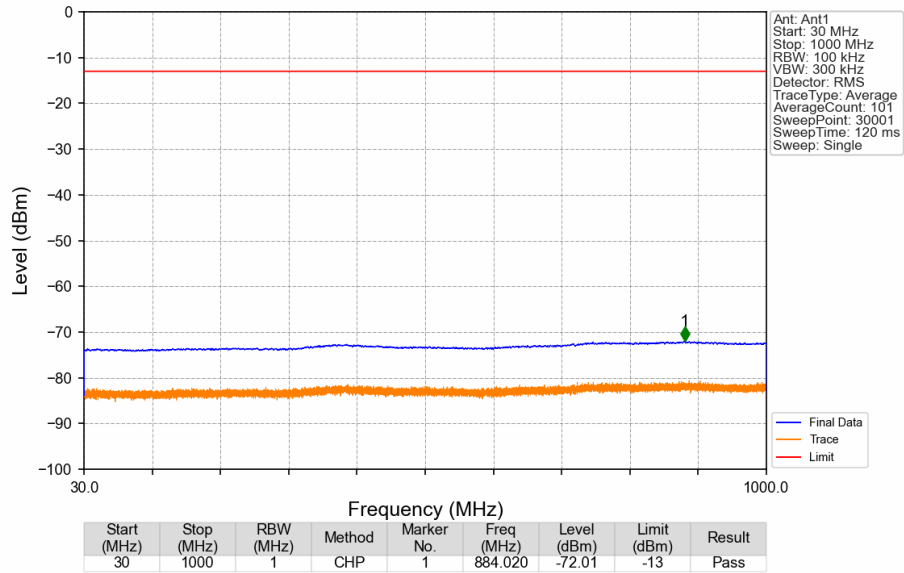


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.065	-87.12	-13	Pass

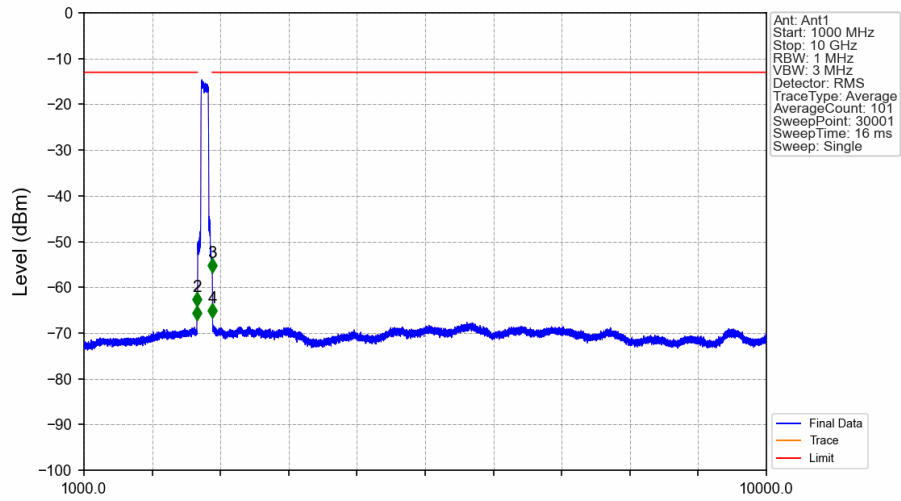
Band41_2593MHz_Broad100MHz_SISO_Ant1_NTNV



Band41_2593MHz_Broad100MHz_SISO_Ant1_NTNV

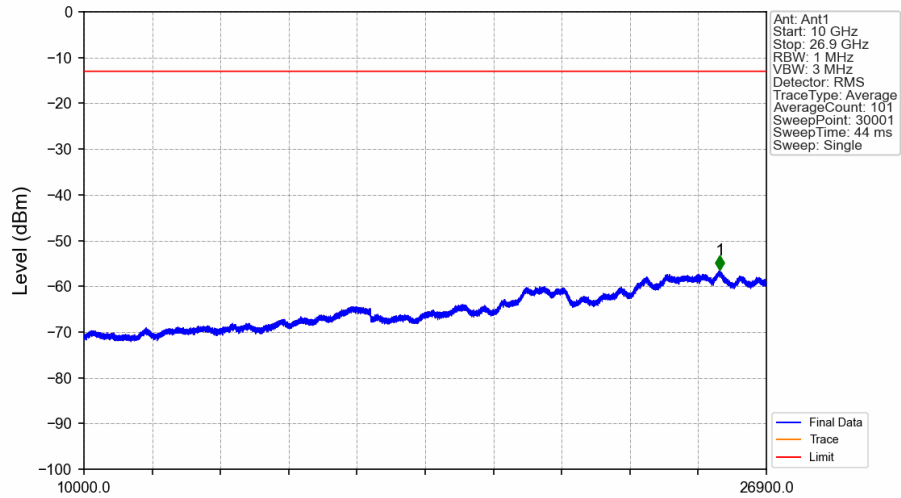


Band41_2593MHz_Broad100MHz_SISO_Ant1_NTNV



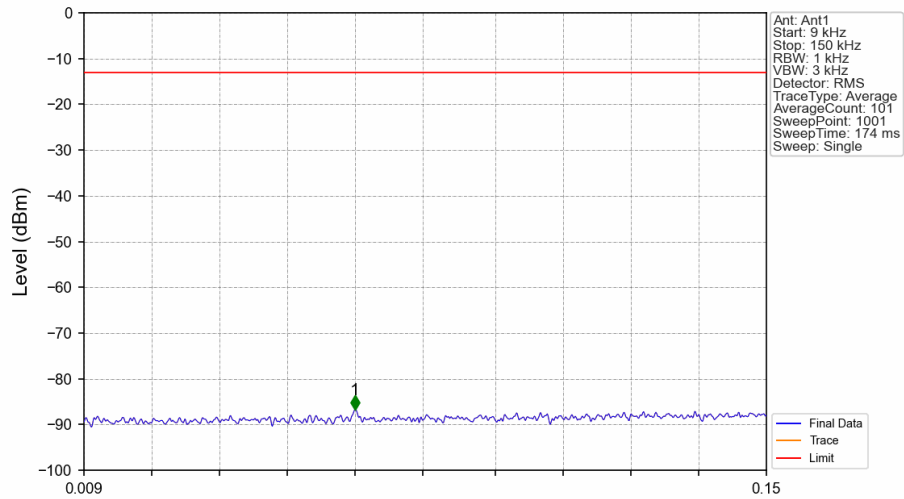
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490	1	/	1	2489.800	-67.27	-13	Pass
2490	2696	1.062	/	2	2492.200	-64.16	-13	Pass
2696	2696	1.062	/	/	/	/	/	/
2696	2696	1.062	/	3	2693.200	-56.77	-13	Pass
2696	10000	1	/	4	2696.200	-66.64	-13	Pass

Band41_2593MHz_Broad100MHz_SISO_Ant1_NTNV



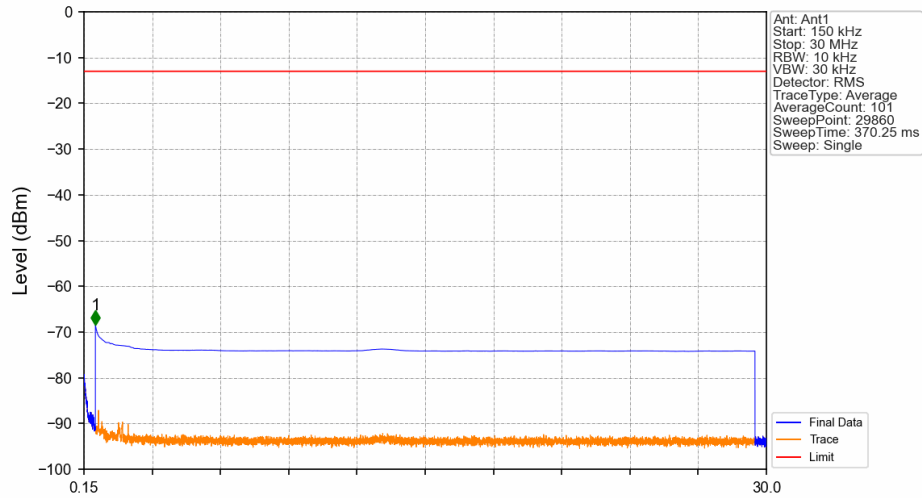
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	25747.983	-56.51	-13	Pass

Band41_2640MHz_Broad100MHz_SISO_Ant1_NTNV



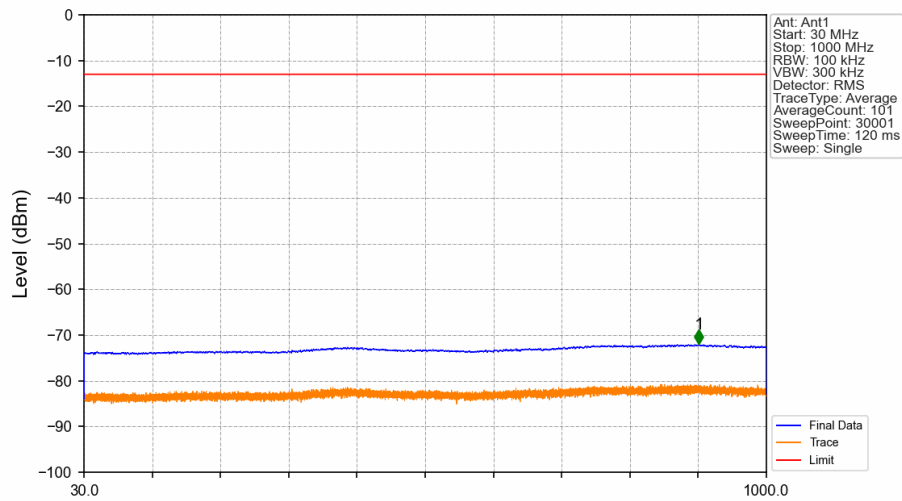
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.065	-86.76	-13	Pass

Band41_2640MHz_Broad100MHz_SISO_Ant1_NTNV

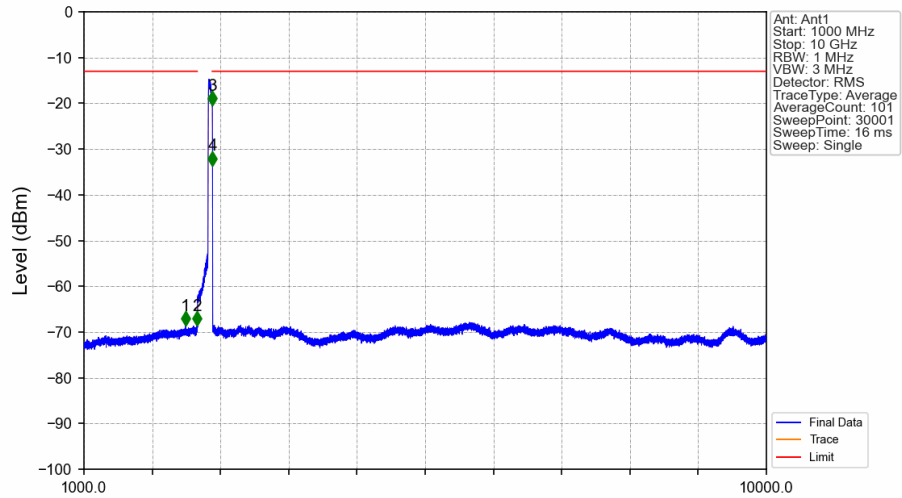


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	1	CHP	1	0.651	-68.42	-13	Pass

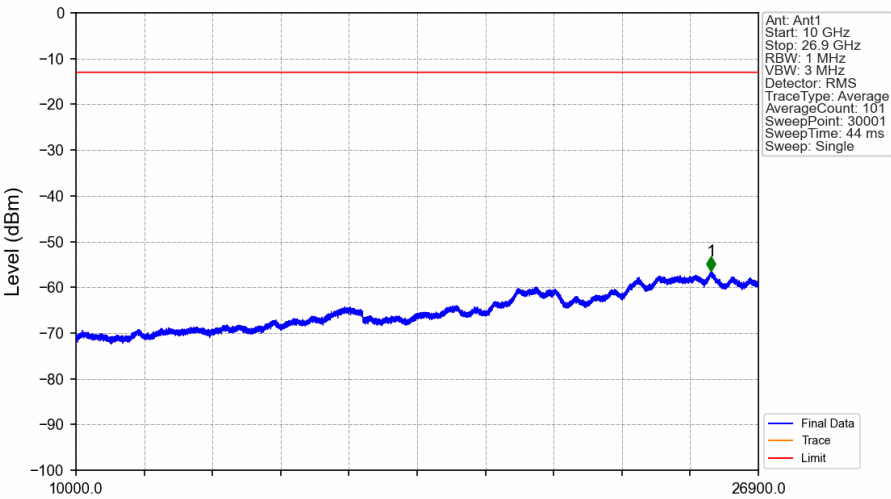
Band41_2640MHz_Broad100MHz_SISO_Ant1_NTNV



Band41_2640MHz_Broad100MHz_SISO_Ant1_NTNV



Band41_2640MHz_Broad100MHz_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	25728.830	-56.46	-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	-3.8	2496.1	20	102	-21	-0.00841	Pass
				120	-20	-0.00801	Pass
				138	-19	-0.00761	Pass
			-30	120	-19	-0.00761	Pass
			-20	120	-18	-0.00721	Pass
			-10	120	-20	-0.00801	Pass
			0	120	-19	-0.00761	Pass
			10	120	-20	-0.00801	Pass
			30	120	-19	-0.00761	Pass
			40	120	-17	-0.00681	Pass
			55	120	-18	-0.00721	Pass
		2593	20	102	-19	-0.00733	Pass
				120	-20	-0.00771	Pass
				138	-19	-0.00733	Pass
			-30	120	-18	-0.00694	Pass
			-20	120	-17	-0.00656	Pass
			-10	120	-20	-0.00771	Pass
			0	120	-18	-0.00694	Pass
			10	120	-19	-0.00733	Pass
			30	120	-20	-0.00771	Pass
			40	120	-19	-0.00733	Pass
			55	120	-18	-0.00694	Pass
		2689.9	20	102	-17	-0.00632	Pass
				120	-19	-0.00706	Pass
				138	-16	-0.00595	Pass
			-30	120	-20	-0.00744	Pass
			-20	120	-19	-0.00706	Pass
			-10	120	-20	-0.00744	Pass
			0	120	-18	-0.00669	Pass
			10	120	-18	-0.00669	Pass
			30	120	-19	-0.00706	Pass
			40	120	-20	-0.00744	Pass
			55	120	-20	-0.00744	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	
129.72	Horizontal	-63.42	-13	-50.42	Pass
333.16	Horizontal	-61.29	-13	-48.29	Pass
654.52	Horizontal	-60.67	-13	-47.67	Pass
1962.92	Horizontal	-47.76	-13	-34.76	Pass
7353.35	Horizontal	-36.30	-13	-23.3	Pass
11244.32	Horizontal	-41.84	-13	-28.84	Pass
125.78	Vertical	-62.96	-13	-49.96	Pass
444.64	Vertical	-62.69	-13	-49.69	Pass
633.56	Vertical	-59.58	-13	-46.58	Pass
2146.63	Vertical	-48.40	-13	-35.4	Pass
6987.29	Vertical	-47.32	-13	-34.32	Pass
11430.57	Vertical	-37.94	-13	-24.94	Pass

GMSK_Middle Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
92.18	Horizontal	-64.14	-13	-51.14	Pass
318.86	Horizontal	-62.64	-13	-49.64	Pass
648.74	Horizontal	-60.74	-13	-47.74	Pass
2000.62	Horizontal	-41.16	-13	-28.16	Pass
7367.43	Horizontal	-40.80	-13	-27.8	Pass
11233.52	Horizontal	-38.48	-13	-25.48	Pass
116.20	Vertical	-61.83	-13	-48.83	Pass
444.59	Vertical	-59.20	-13	-46.2	Pass
635.58	Vertical	-56.64	-13	-43.64	Pass
2123.73	Vertical	-56.33	-13	-43.33	Pass
6983.99	Vertical	-45.25	-13	-32.25	Pass
11455.43	Vertical	-39.37	-13	-26.37	Pass

GMSK_High Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
105.74	Horizontal	-65.05	-13	-52.05	Pass
342.62	Horizontal	-62.33	-13	-49.33	Pass
662.59	Horizontal	-59.38	-13	-46.38	Pass
2023.58	Horizontal	-47.52	-13	-34.52	Pass
7430.13	Horizontal	-38.30	-13	-25.3	Pass
11253.02	Horizontal	-35.01	-13	-22.01	Pass
119.31	Vertical	-64.21	-13	-51.21	Pass
413.49	Vertical	-58.85	-13	-45.85	Pass
668.52	Vertical	-56.92	-13	-43.92	Pass
2163.41	Vertical	-51.70	-13	-38.7	Pass
7034.21	Vertical	-45.08	-13	-32.08	Pass
11381.79	Vertical	-36.57	-13	-23.57	Pass

AWGN_Low Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
100.58	Horizontal	-65.75	-13	-52.75	Pass
339.87	Horizontal	-61.27	-13	-48.27	Pass
679.59	Horizontal	-60.22	-13	-47.22	Pass
2060.94	Horizontal	-46.02	-13	-33.02	Pass
7419.43	Horizontal	-40.10	-13	-27.1	Pass
11250.06	Horizontal	-39.64	-13	-26.64	Pass
118.11	Vertical	-64.48	-13	-51.48	Pass
425.11	Vertical	-62.65	-13	-49.65	Pass
642.29	Vertical	-57.27	-13	-44.27	Pass
2149.57	Vertical	-57.67	-13	-44.67	Pass
7019.19	Vertical	-49.62	-13	-36.62	Pass
11408.61	Vertical	-37.67	-13	-24.67	Pass

AWGN_Middle Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
106.22	Horizontal	-63.92	-13	-50.92	Pass
307.97	Horizontal	-62.29	-13	-49.29	Pass
696.08	Horizontal	-59.35	-13	-46.35	Pass
2231.74	Horizontal	-42.92	-13	-29.92	Pass
7072.55	Horizontal	-39.76	-13	-26.76	Pass
11671.42	Horizontal	-38.51	-13	-25.51	Pass
128.65	Vertical	-63.67	-13	-50.67	Pass
419.44	Vertical	-61.66	-13	-48.66	Pass
722.25	Vertical	-56.45	-13	-43.45	Pass
2373.43	Vertical	-49.10	-13	-36.1	Pass
7440.77	Vertical	-46.85	-13	-33.85	Pass
11791.17	Vertical	-41.27	-13	-28.27	Pass

AWGN_High Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
85.87	Horizontal	-62.57	-13	-49.57	Pass
341.35	Horizontal	-59.54	-13	-46.54	Pass
721.63	Horizontal	-61.00	-13	-48	Pass
2275.18	Horizontal	-43.89	-13	-30.89	Pass
7081.37	Horizontal	-36.93	-13	-23.93	Pass
11681.20	Horizontal	-35.11	-13	-22.11	Pass
122.51	Vertical	-61.61	-13	-48.61	Pass
436.99	Vertical	-58.79	-13	-45.79	Pass
701.88	Vertical	-58.90	-13	-45.9	Pass
2358.75	Vertical	-48.47	-13	-35.47	Pass
7462.35	Vertical	-42.32	-13	-29.32	Pass
11783.47	Vertical	-34.57	-13	-21.57	Pass

AWGN_100M_Low Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
121.70	Horizontal	-65.71	-13	-52.71	Pass
330.37	Horizontal	-62.90	-13	-49.9	Pass
712.41	Horizontal	-59.95	-13	-46.95	Pass
2228.22	Horizontal	-49.02	-13	-36.02	Pass
7127.25	Horizontal	-44.13	-13	-31.13	Pass
11614.38	Horizontal	-37.78	-13	-24.78	Pass
118.13	Vertical	-61.71	-13	-48.71	Pass
418.77	Vertical	-60.96	-13	-47.96	Pass
704.07	Vertical	-57.01	-13	-44.01	Pass
2323.95	Vertical	-57.93	-13	-44.93	Pass
7389.63	Vertical	-40.98	-13	-27.98	Pass
11770.85	Vertical	-39.40	-13	-26.4	Pass

AWGN_100M_Middle Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
131.80	Horizontal	-64.62	-13	-51.62	Pass
312.96	Horizontal	-60.59	-13	-47.59	Pass
696.47	Horizontal	-60.38	-13	-47.38	Pass
2243.26	Horizontal	-44.59	-13	-31.59	Pass
7085.35	Horizontal	-36.46	-13	-23.46	Pass
11638.00	Horizontal	-34.31	-13	-21.31	Pass
127.90	Vertical	-63.13	-13	-50.13	Pass
425.52	Vertical	-60.76	-13	-47.76	Pass
716.20	Vertical	-56.88	-13	-43.88	Pass
2357.67	Vertical	-51.27	-13	-38.27	Pass
7464.67	Vertical	-47.35	-13	-34.35	Pass
11708.63	Vertical	-37.67	-13	-24.67	Pass

AWGN_100M_High Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
118.27	Horizontal	-65.59	-13	-52.59	Pass
352.91	Horizontal	-60.64	-13	-47.64	Pass
701.55	Horizontal	-59.12	-13	-46.12	Pass
2257.40	Horizontal	-45.89	-13	-32.89	Pass
7284.63	Horizontal	-43.86	-13	-30.86	Pass
11886.56	Horizontal	-38.08	-13	-25.08	Pass
138.27	Vertical	-63.67	-13	-50.67	Pass
417.25	Vertical	-62.38	-13	-49.38	Pass
689.16	Vertical	-56.12	-13	-43.12	Pass
2498.71	Vertical	-49.83	-13	-36.83	Pass
7855.13	Vertical	-41.85	-13	-28.85	Pass
11961.65	Vertical	-43.24	-13	-30.24	Pass