



1. Out of band rejection

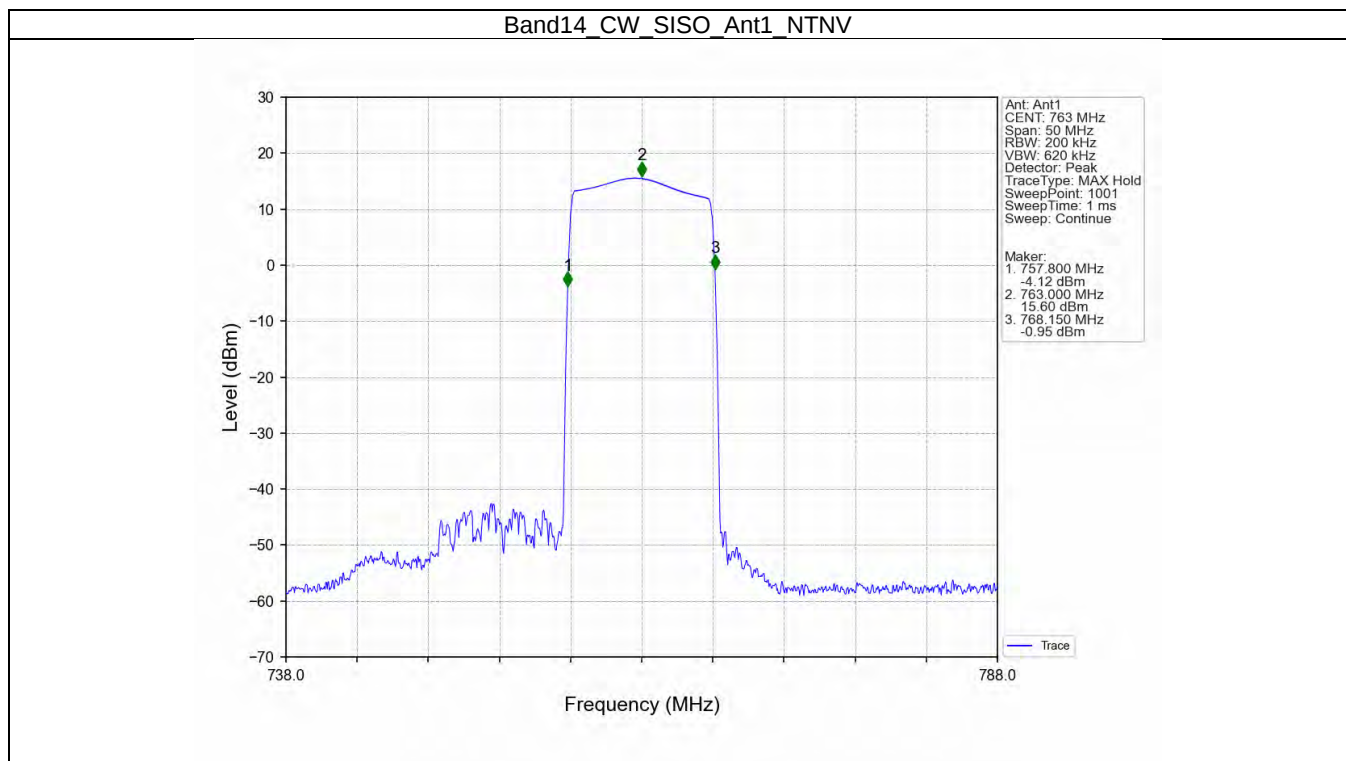
1.1 Test Result

1.1.1 Band14

Band: 14 / NTNV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	738 - 788	SISO	1	763.000	757.800	768.150	Pass

1.2 Test Graph

1.2.1 Band14





2. AGC threshold

2.1 Test Result

2.1.1 Band14

Band: 14 / NTNV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
GMSK 0.2MHz	763	SISO	1	-1.20	Pass
AWGN 5MHz	763	SISO	1	-1.20	Pass
AWGN 100MHz	763	SISO	1	-1.20	Pass

3. Input-versus-output signal comparison

3.1 Test Result

3.1.1 Band14_OBW

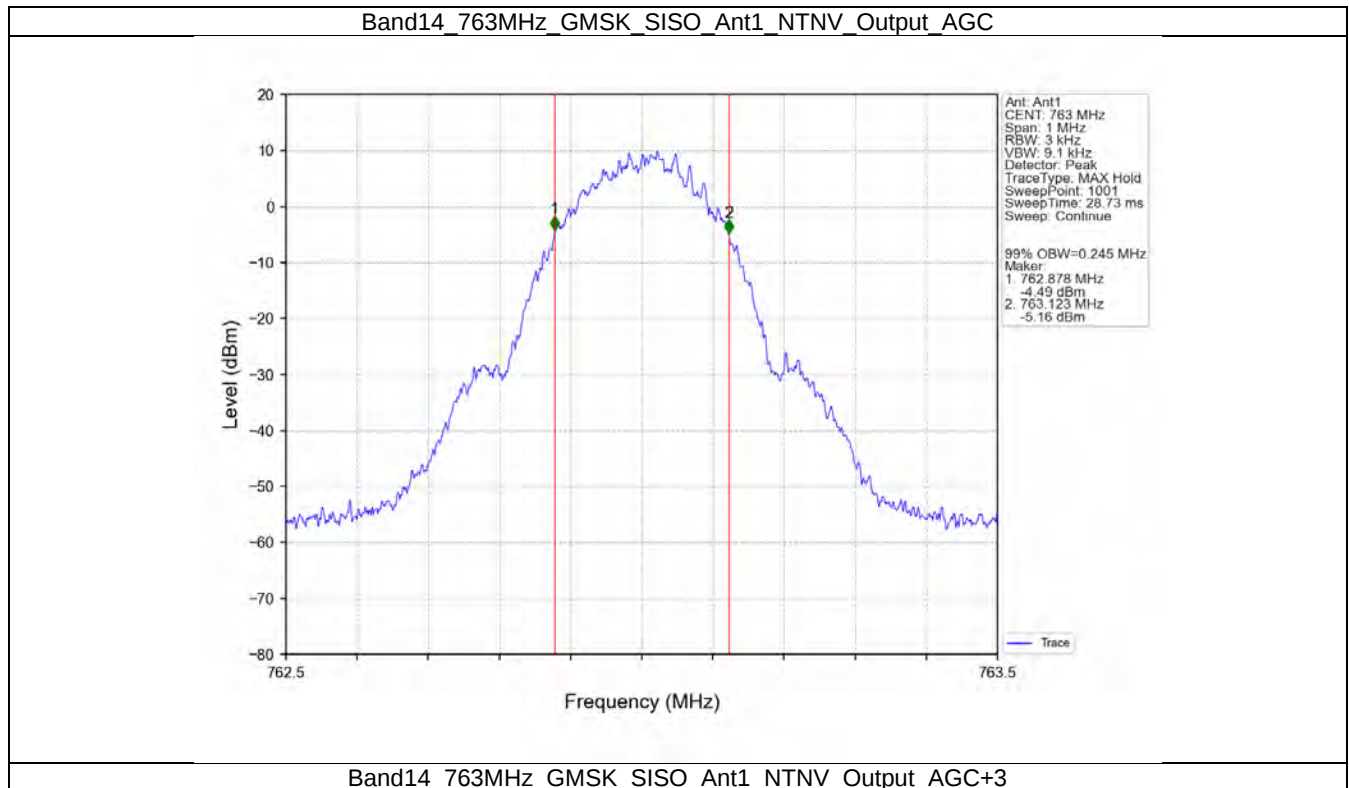
Band: 14 / NTNV							
Signal			TX Type	ANT	99% OBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
GMSK 0.2MHz	1.8	763	SISO	1	0.245	0.245	Pass
	-1.2	763	SISO	1	0.244	0.245	Pass
AWGN 5MHz	1.8	763	SISO	1	4.521	4.543	Pass
	-1.2	763	SISO	1	4.519	4.540	Pass
AWGN 100MHz	1.8	763	SISO	1	10.414	97.272	Pass
	-1.2	763	SISO	1	10.463	97.226	Pass

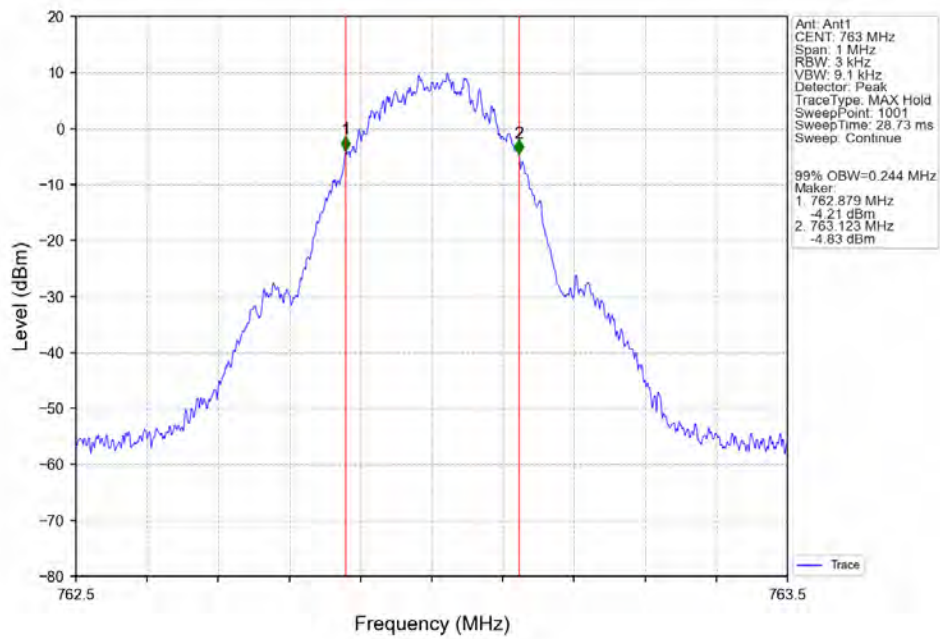
3.1.2 Band14_EBW

Band: 14 / NTNV							
Signal			TX Type	ANT	26dB EBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
GMSK 0.2MHz	1.8	763	SISO	1	0.316	0.317	Pass
	-1.2	763	SISO	1	0.317	0.318	Pass
AWGN 5MHz	1.8	763	SISO	1	5.127	5.137	Pass
	-1.2	763	SISO	1	5.123	5.140	Pass
AWGN 100MHz	1.8	763	SISO	1	12.095	100.845	Pass
	-1.2	763	SISO	1	12.070	100.791	Pass

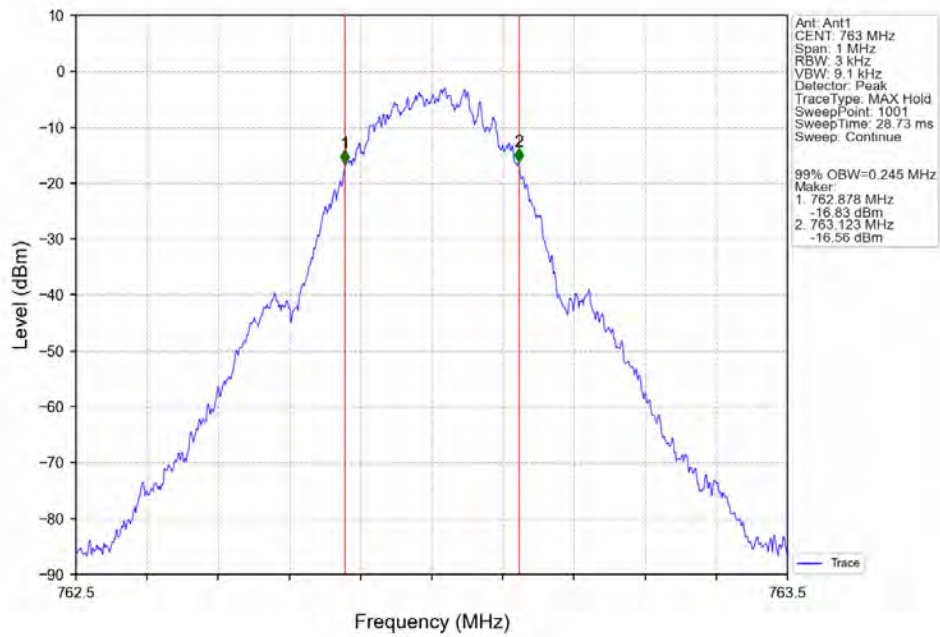
3.2 Test Graph

3.2.1 Band14_OBW

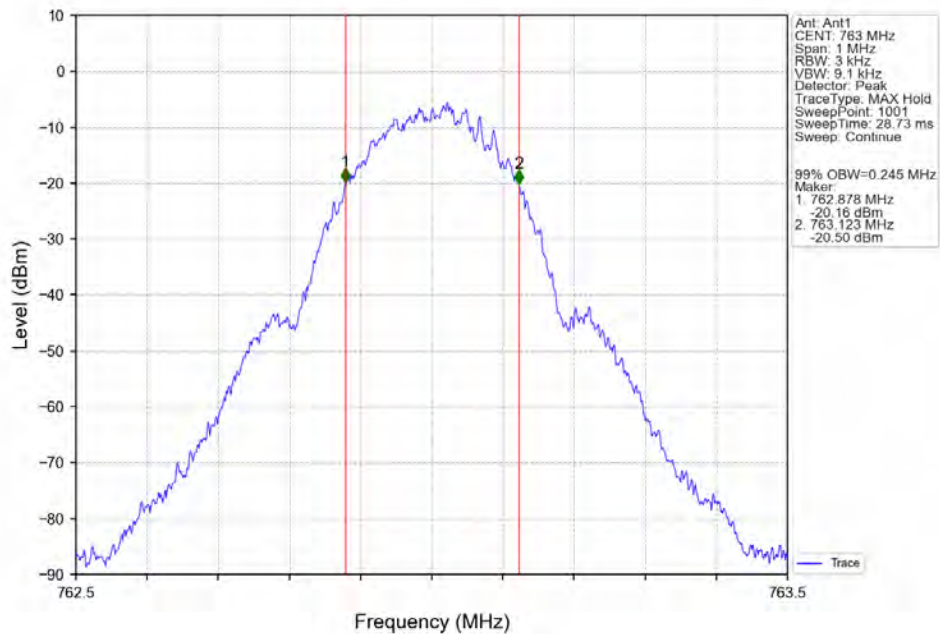




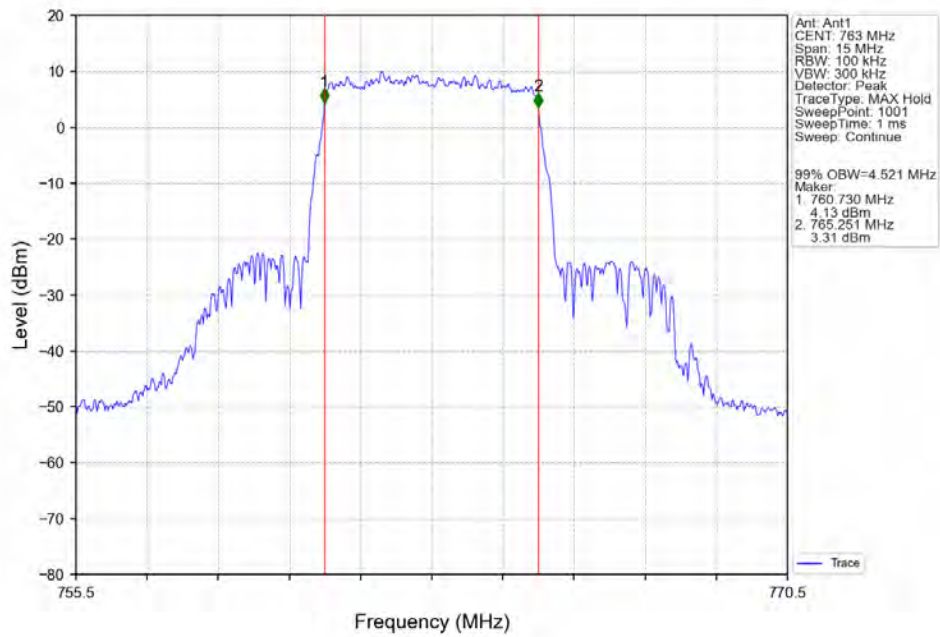
Band14_763MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



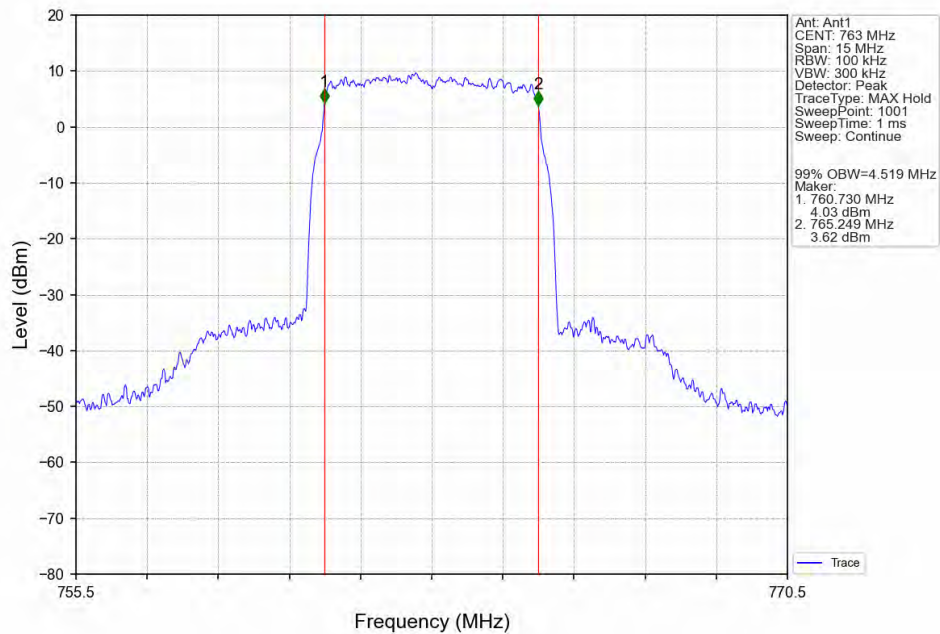
Band14_763MHz_GMSK_SISO_Ant1_NTNV_Input_AGC+3



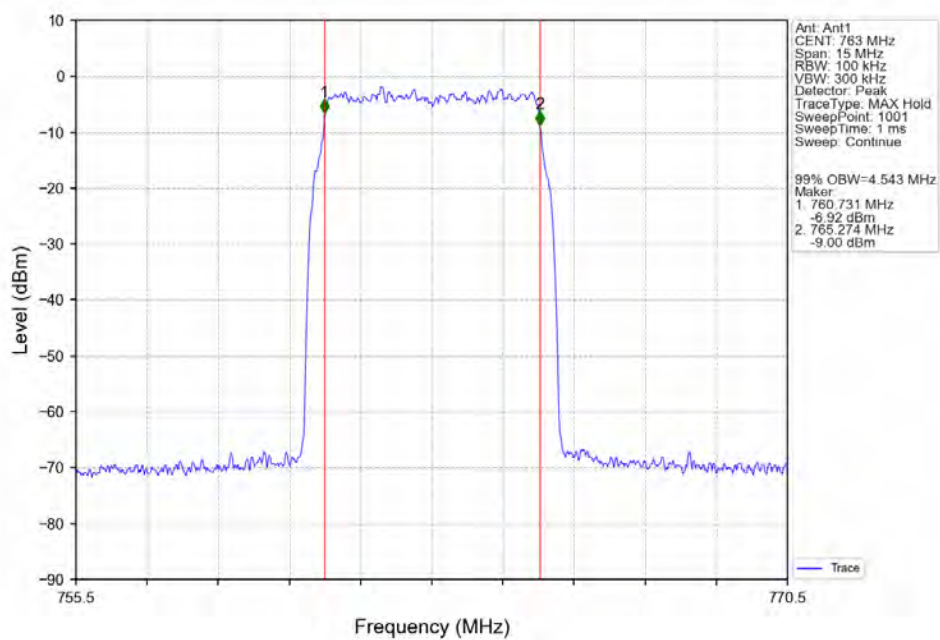
Band14_763MHz_AWGN_SISO_Ant1_NTNV_Output_AGC



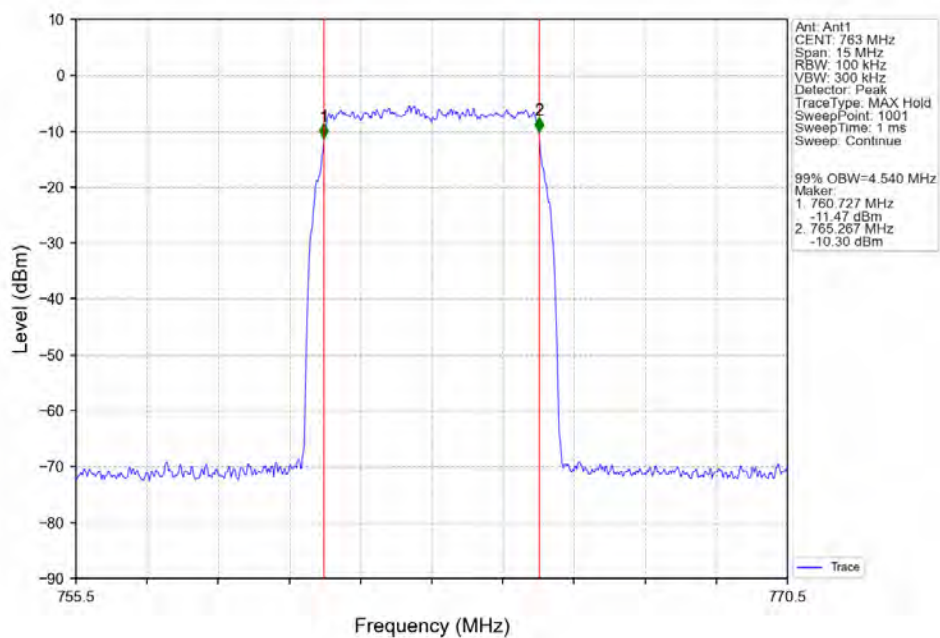
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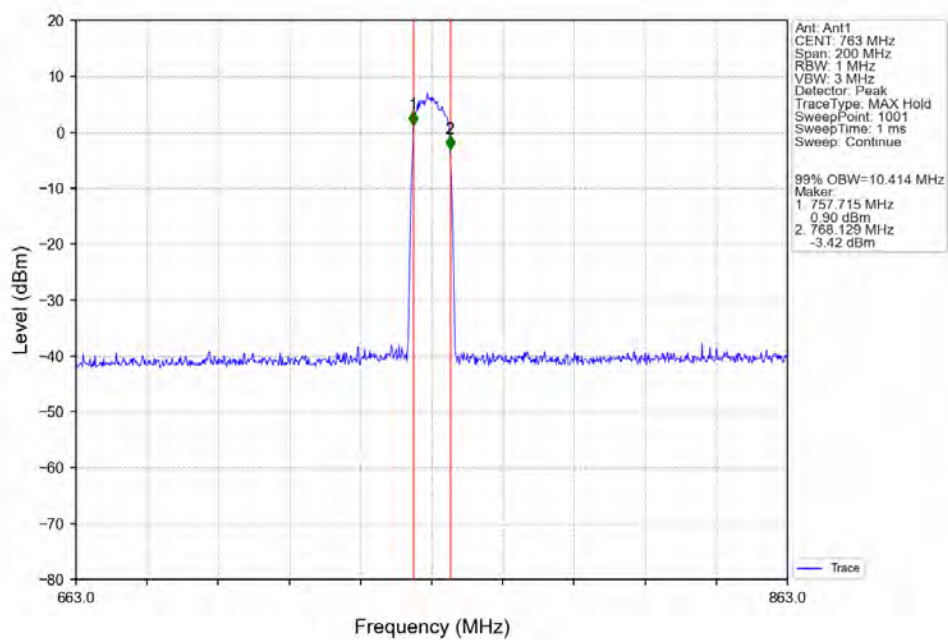
Band14_763MHz_AWGN_SISO_Ant1_NTNV_Input_AGC



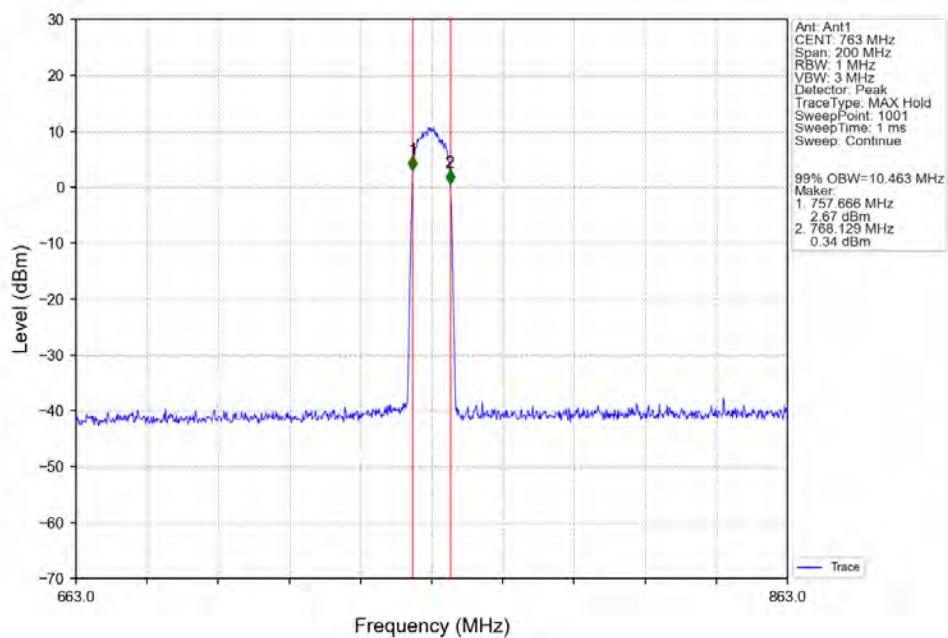
Band14_763MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



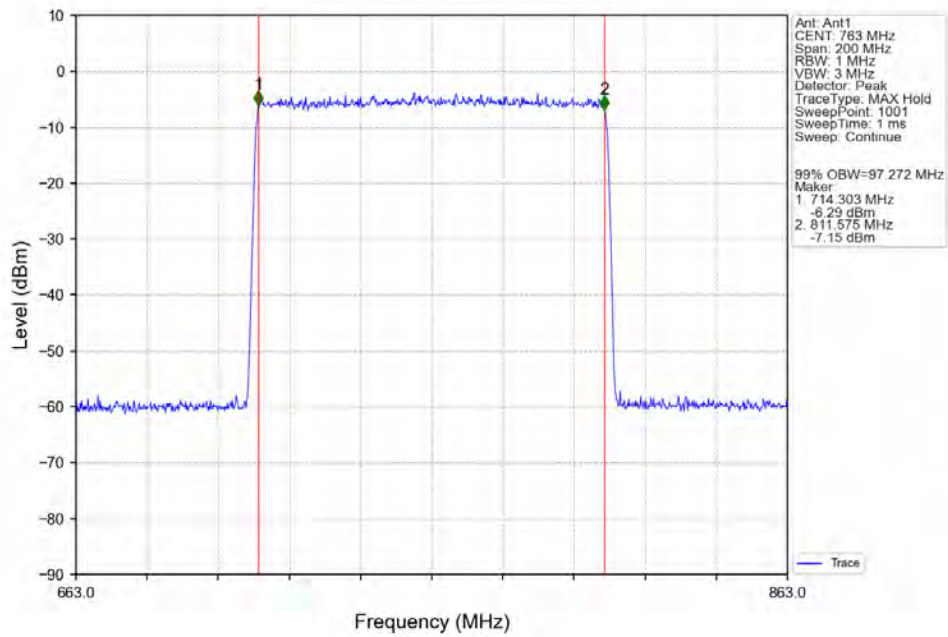
Band14_763MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC



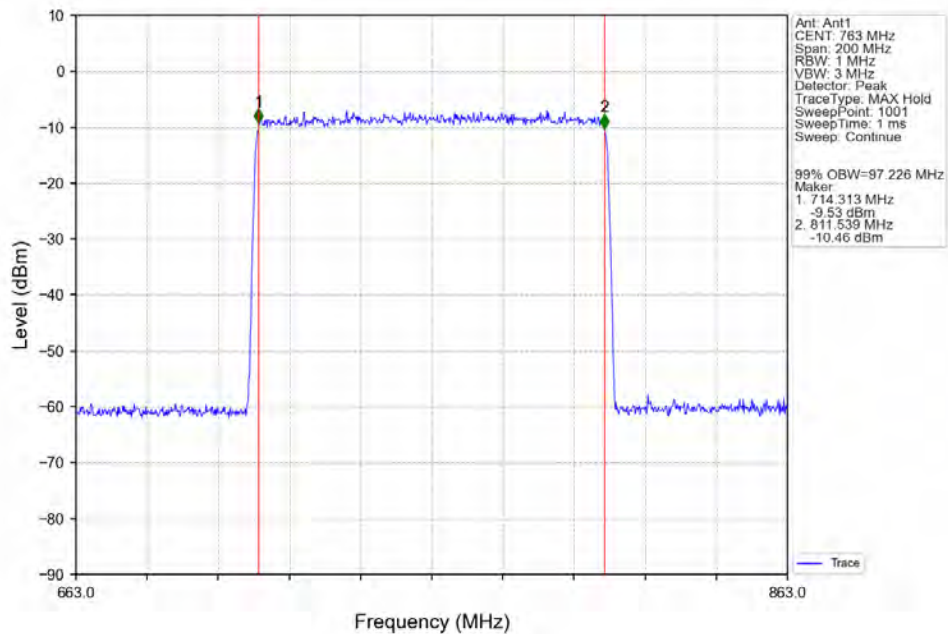
Band14_763MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC+3



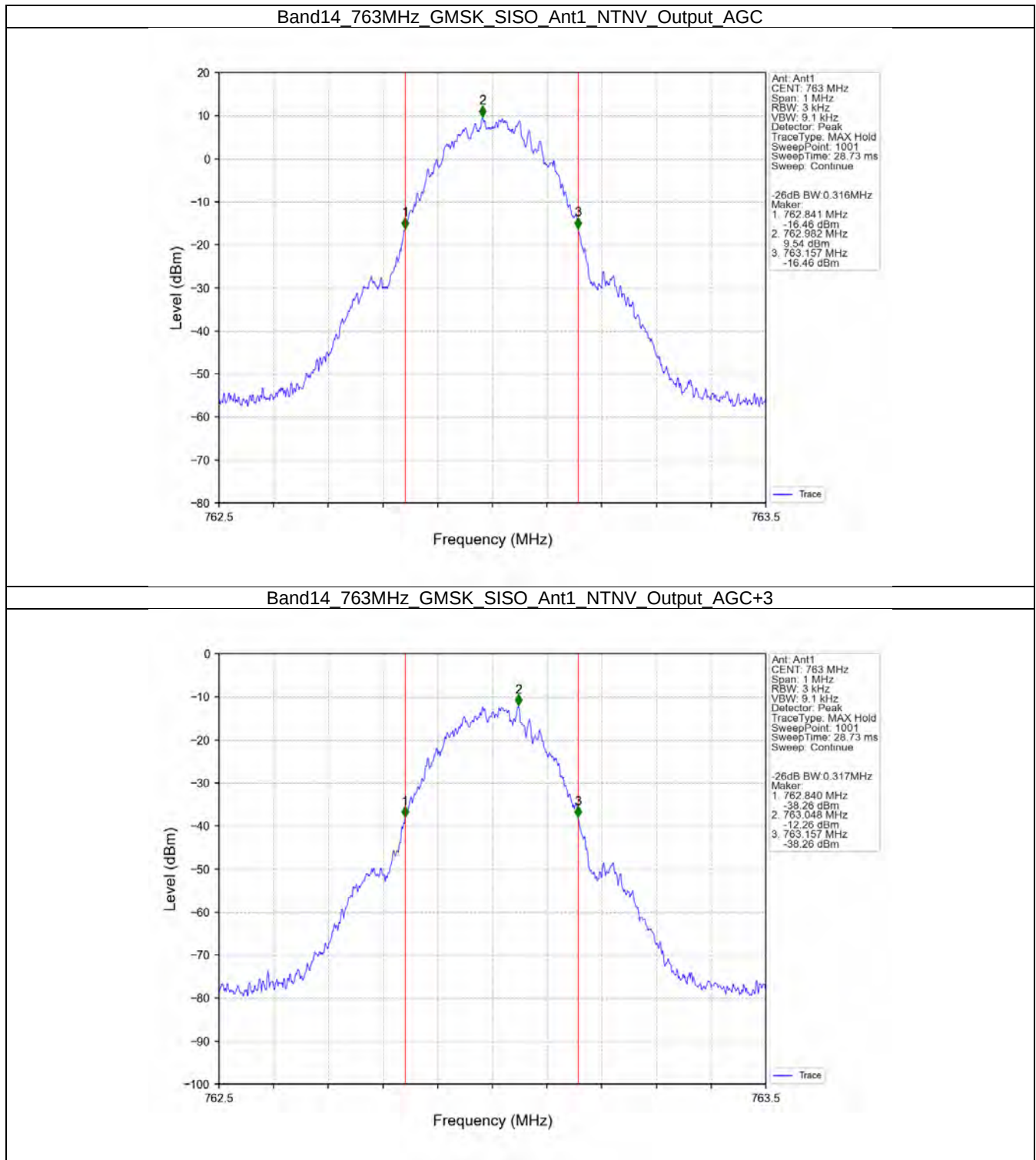
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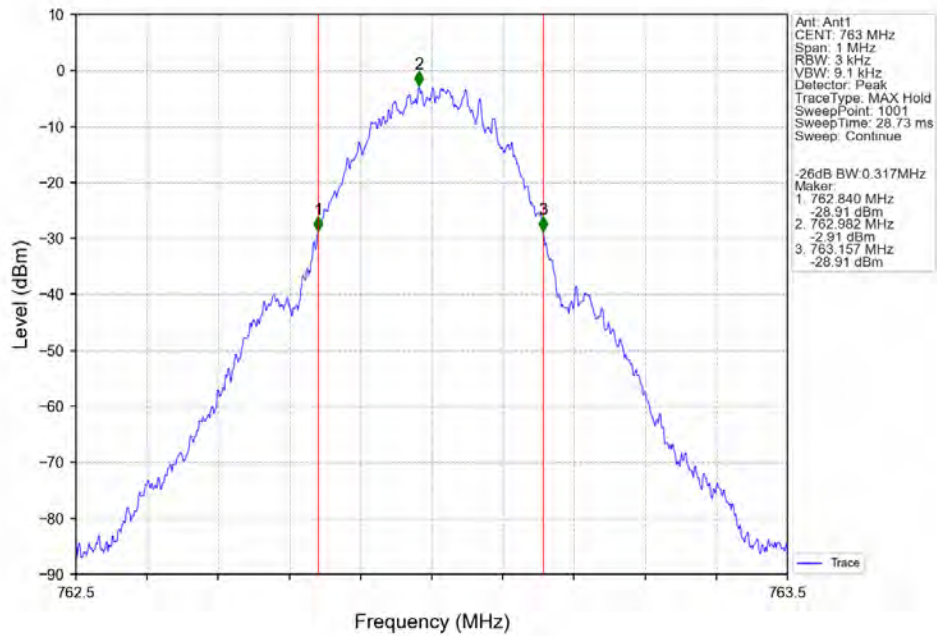
Band14_763MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC+3



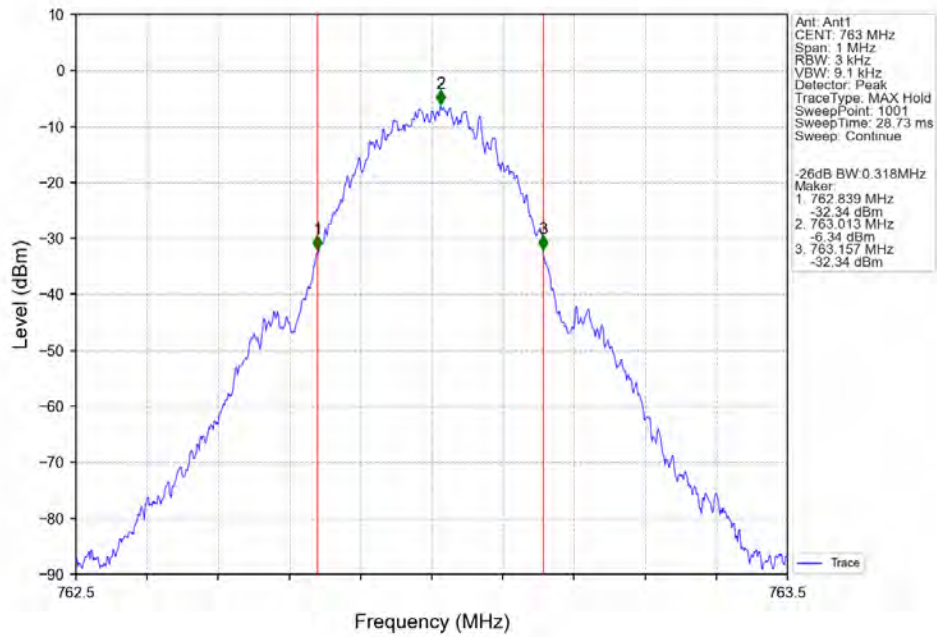
3.2.2 Band14_EBW



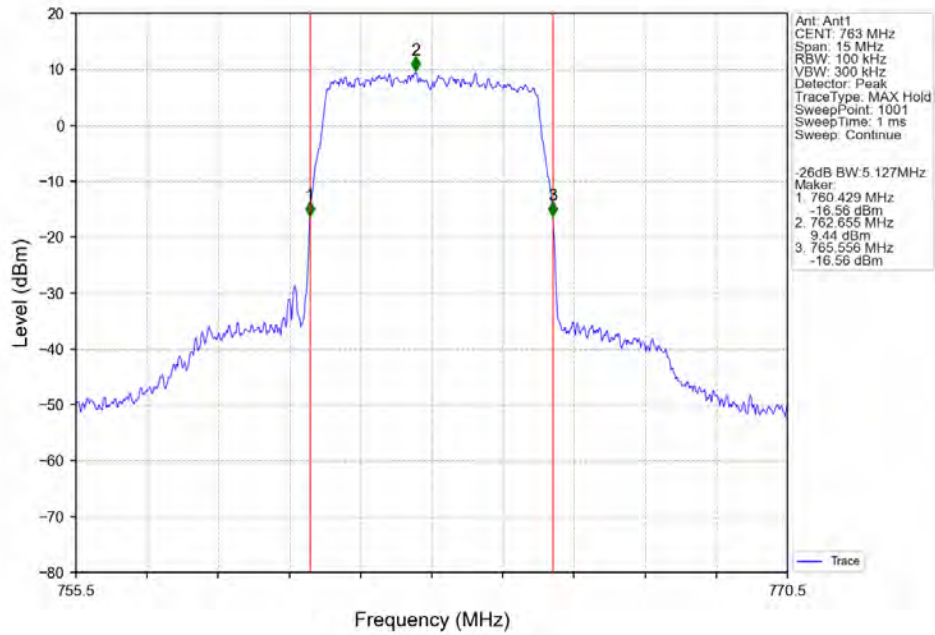
Band14_763MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



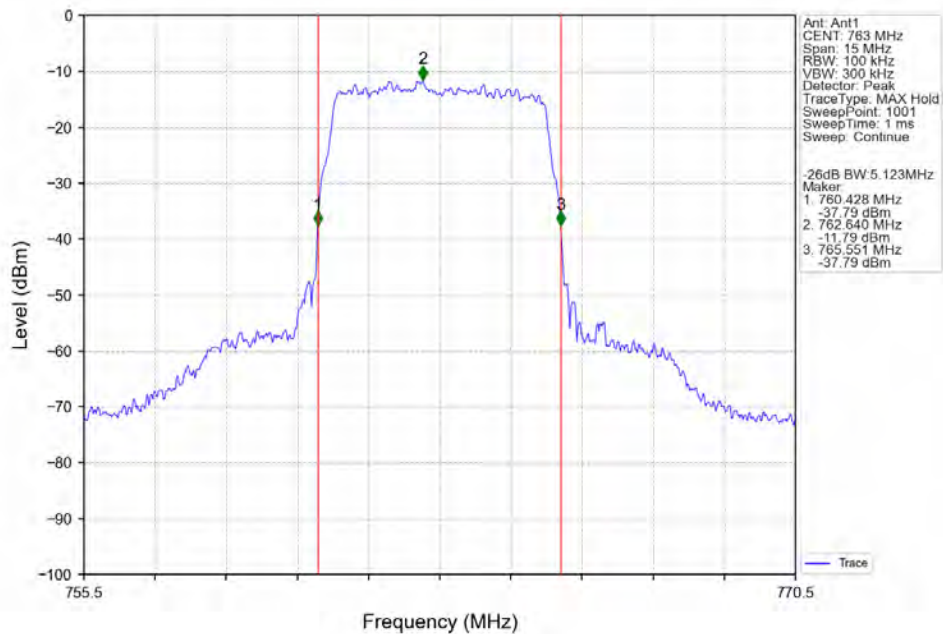
Band14_763MHz_GMSK_SISO_Ant1_NTNV_Input_AGC+3



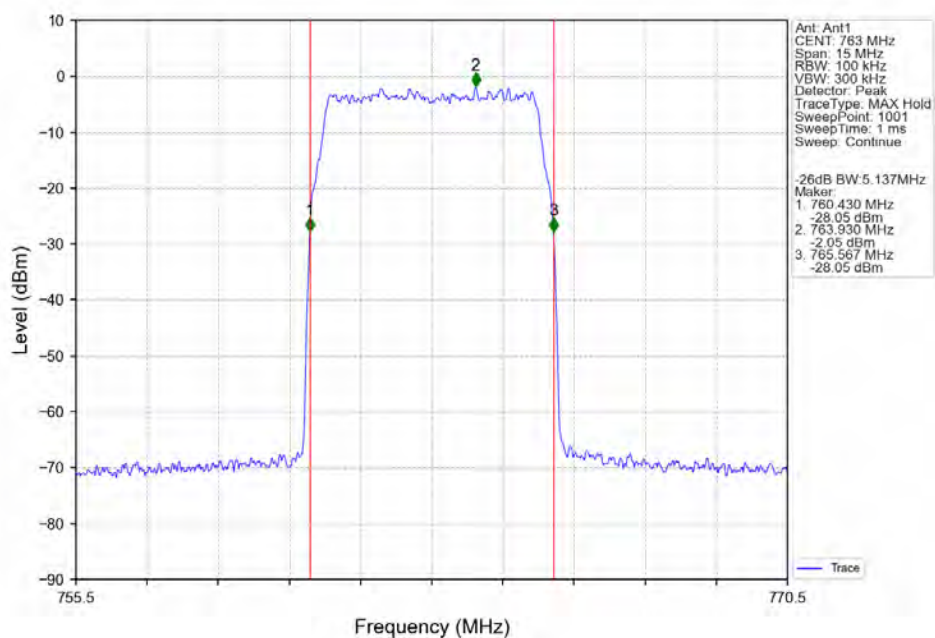
Band14_763MHz_AWGN_SISO_Ant1_NTNV_Output_AGC



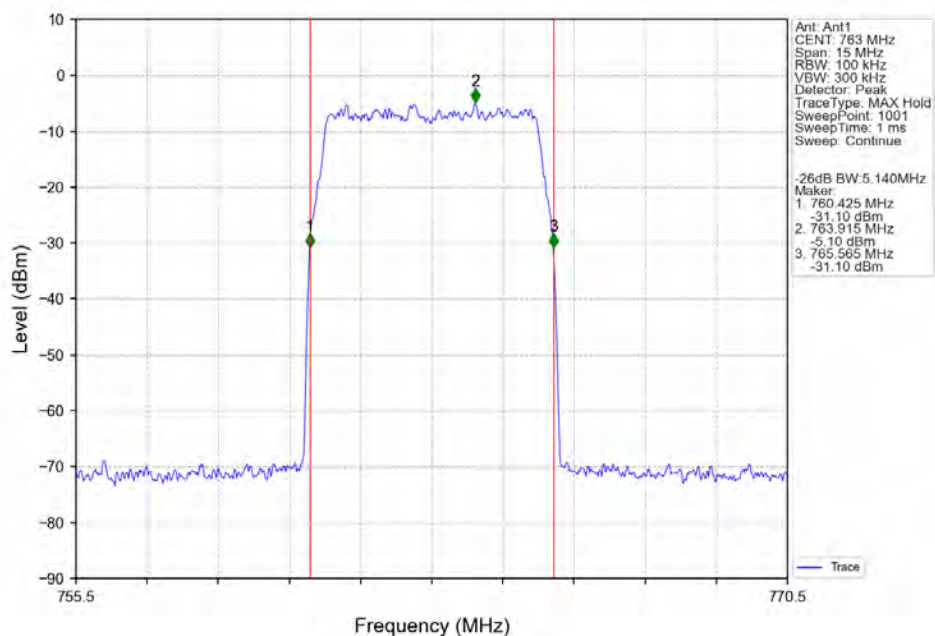
Band14_763MHz_AWGN_SISO_Ant1_NTNV_Output_AGC+3



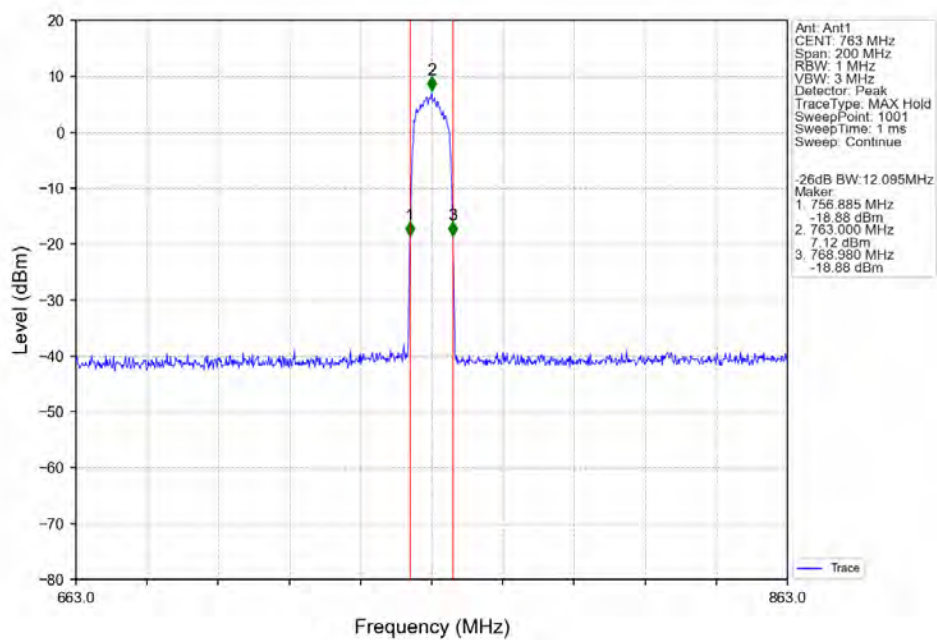
Band14_763MHz_AWGN_SISO_Ant1_NTNV_Input_AGC



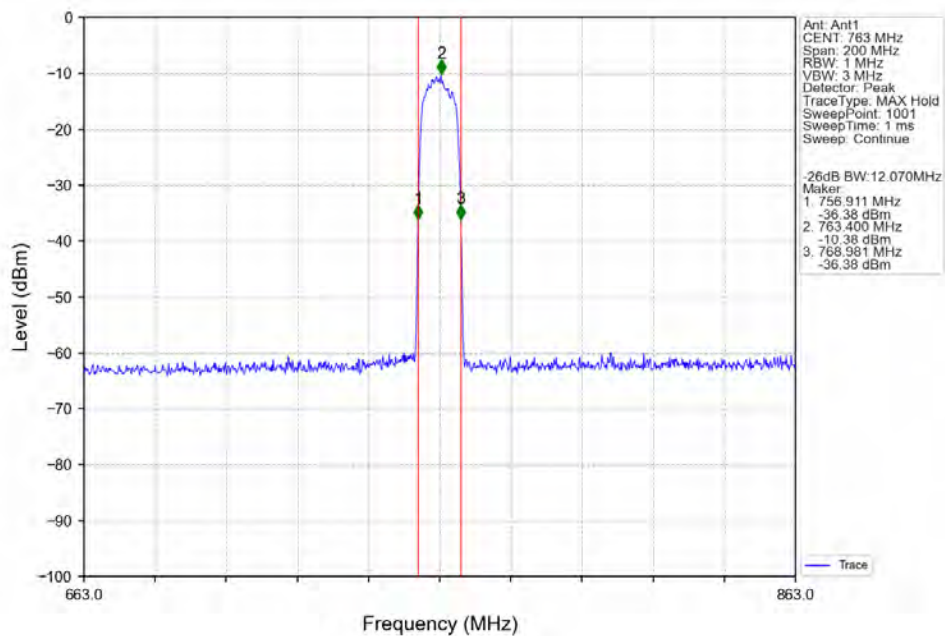
Band14_763MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



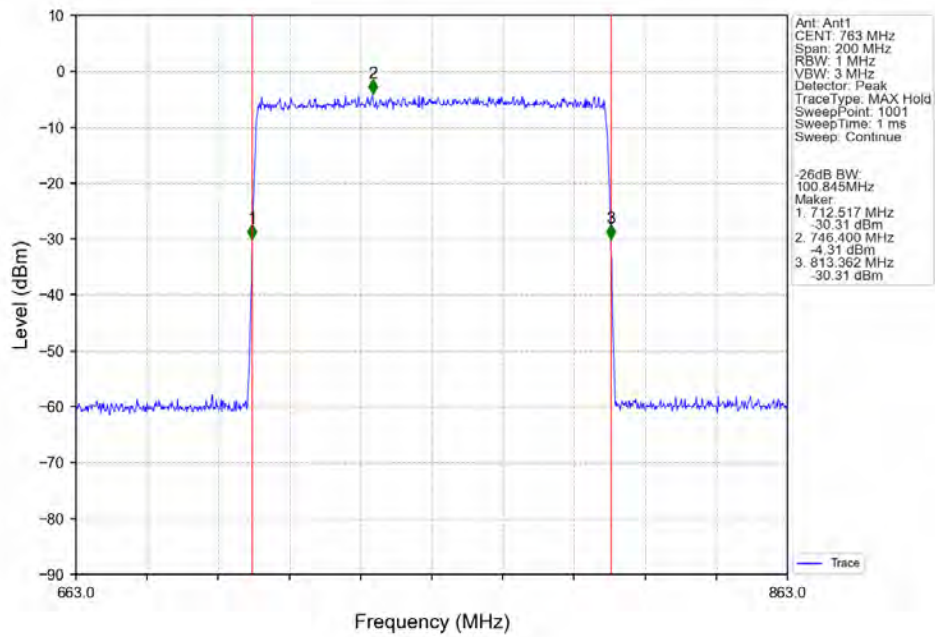
Band14_763MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC



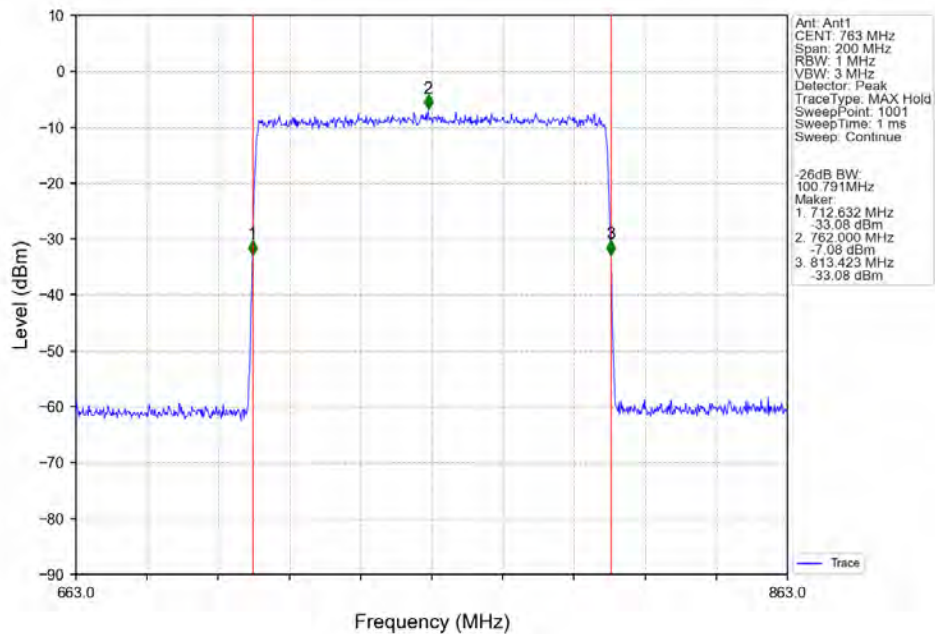
Band14_763MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC+3



Band14_763MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC



Band14_763MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC+3



4. Input/output power and amplifier/booster gain

4.1 Test Result

4.1.1 Band14_ERP

Band: 14 / NTNV										
Signal			TX Type	ANT	Conducted Power (dBm/MHz)		ERP (dBm/MHz)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
GMSK 0.2MHz	-1.2	763	SISO	1	17.00	-0.26	17.85	<=60	17.26	Pass
	1.8	763	SISO	1	16.86	2.75	17.71	<=60	14.11	Pass
AWGN 5MHz	-1.2	763	SISO	1	9.98	-6.62	10.83	<=60	16.60	Pass
	1.8	763	SISO	1	10.16	-3.43	11.01	<=60	13.59	Pass
AWGN 100MHz	-1.2	763	SISO	1	0.97	-17.65	0.56	<=60	16.24	Pass
	1.8	763	SISO	1	0.98	-16.55	1.84	<=60	17.52	Pass

Band: 14 / NTNV								
Signal			Conducted Power (dBm/MHz)		ERP(dBm/MHz)		Limit (dBm/MHz)	Verdict
Type	Level (dBm)	Frequency (MHz)	SISO	2*2MIMO	SISO	2*2MIMO		
GMSK 0.2MHz	-1.2	763	17.00	20.01	17.85	20.86	/	Pass
	1.8	763	16.86	19.87	17.71	20.72	/	Pass
AWGN 5MHz	-1.2	763	9.98	12.99	10.83	13.84	/	Pass
	1.8	763	10.16	13.17	11.01	14.02	/	Pass
AWGN 100MHz	-1.2	763	0.97	3.98	1.82	4.83	/	Pass
	1.8	763	0.98	3.99	1.83	4.84	/	Pass

Band: 14 / NTNV								
Signal			Conducted Power (dBm)		ERP(dBm)		Limit (dBm)	Verdict
Type	Level (dBm)	Frequency (MHz)	SISO	2*2MIMO	SISO	2*2MIMO		
GMSK 0.2MHz	-1.2	763	17.00	20.01	17.85	20.86	/	Pass
	1.8	763	16.86	19.87	17.71	20.72	/	Pass
AWGN 5MHz	-1.2	763	16.97	19.98	17.82	20.83	/	Pass
	1.8	763	17.15	20.16	18.00	21.01	/	Pass
AWGN 100MHz	-1.2	763	10.97	13.98	11.82	14.83	/	Pass
	1.8	763	10.98	13.99	11.83	14.84	/	Pass

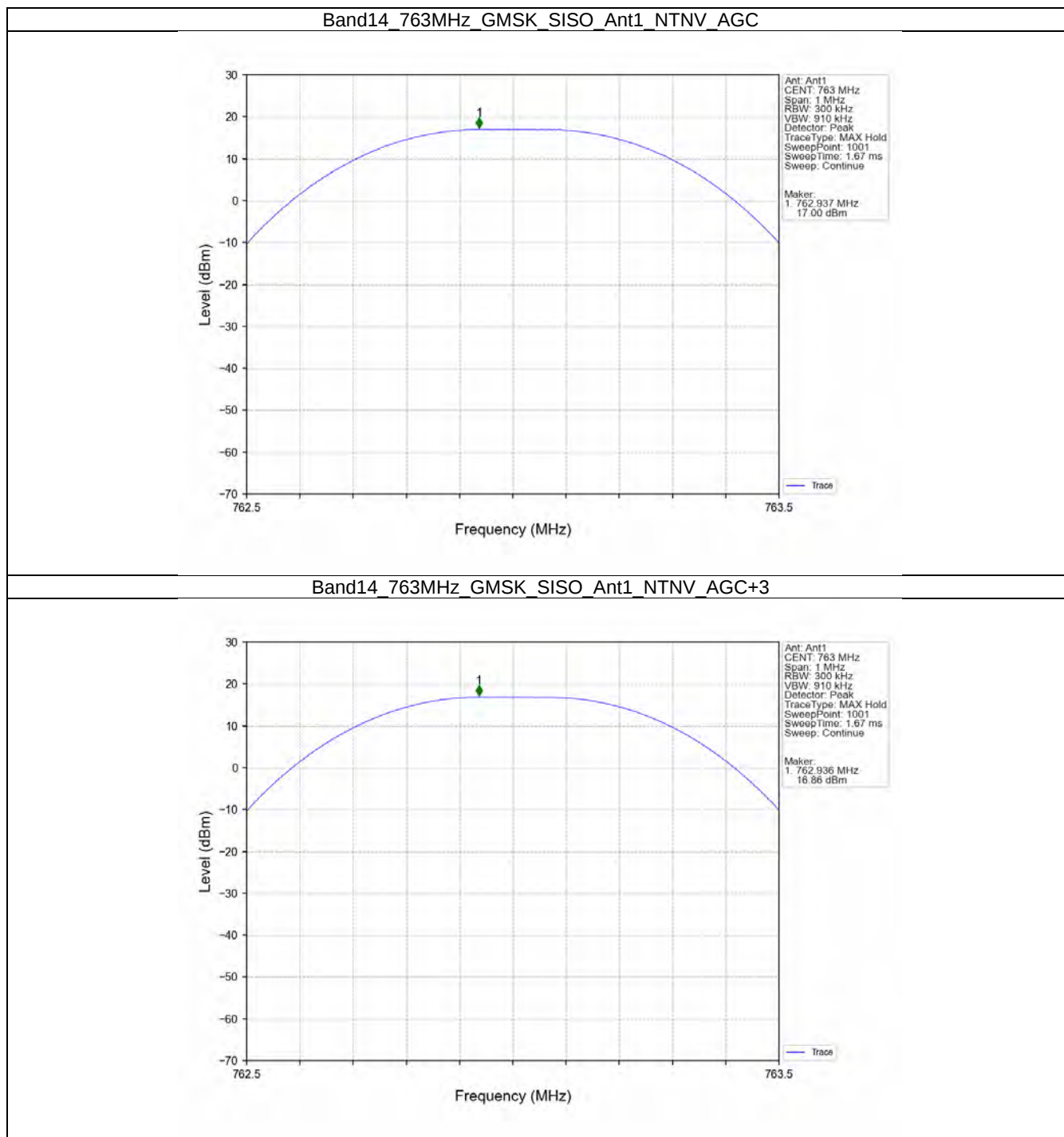


4.1.2 Band14_PAPR

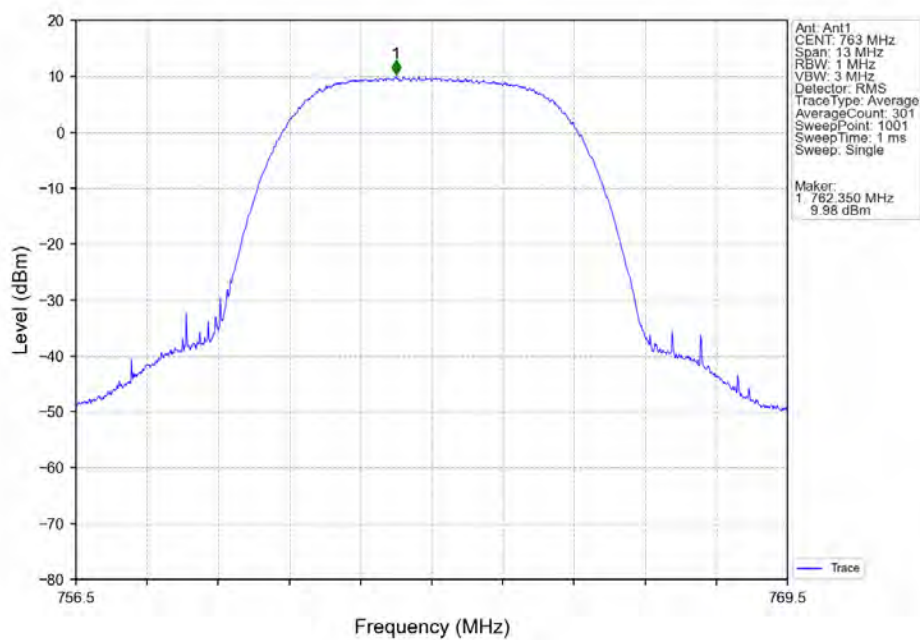
Band: 14 / NTNV							
Signal			TX Type	ANT	PAPR (dB)		Verdict
Type	Level (dBm)	Frequency (MHz)			Result	Limit	
GMSK 0.2MHz	-1.2	763	SISO	1	0.40	<=13	Pass
	1.8	763	SISO	1	0.29	<=13	Pass
AWGN 5MHz	-1.2	763	SISO	1	8.52	<=13	Pass
	1.8	763	SISO	1	8.49	<=13	Pass
AWGN 100MHz	-1.2	763	SISO	1	8.40	<=13	Pass
	1.8	763	SISO	1	8.40	<=13	Pass

4.2 Test Graph

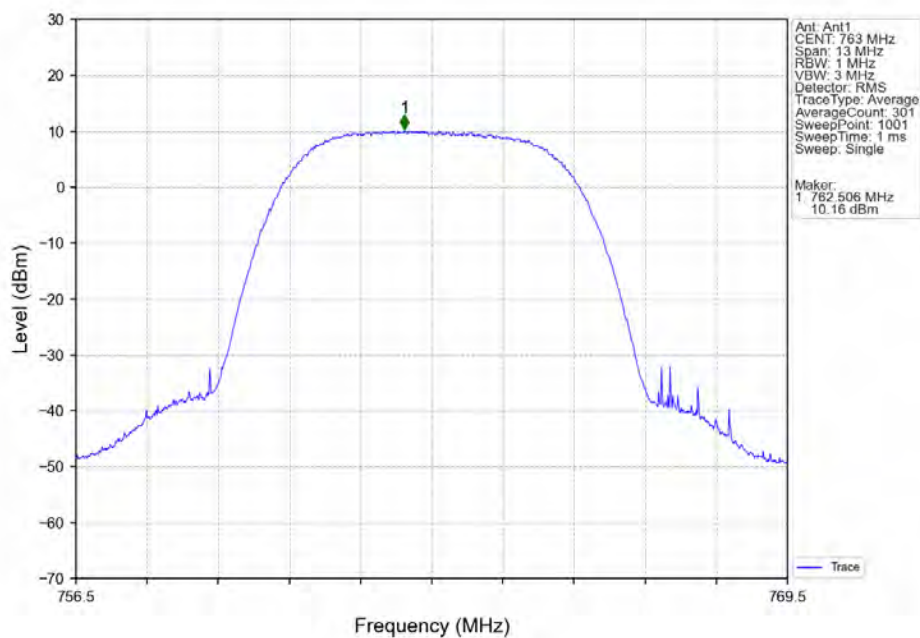
4.2.1 Band14_ERP



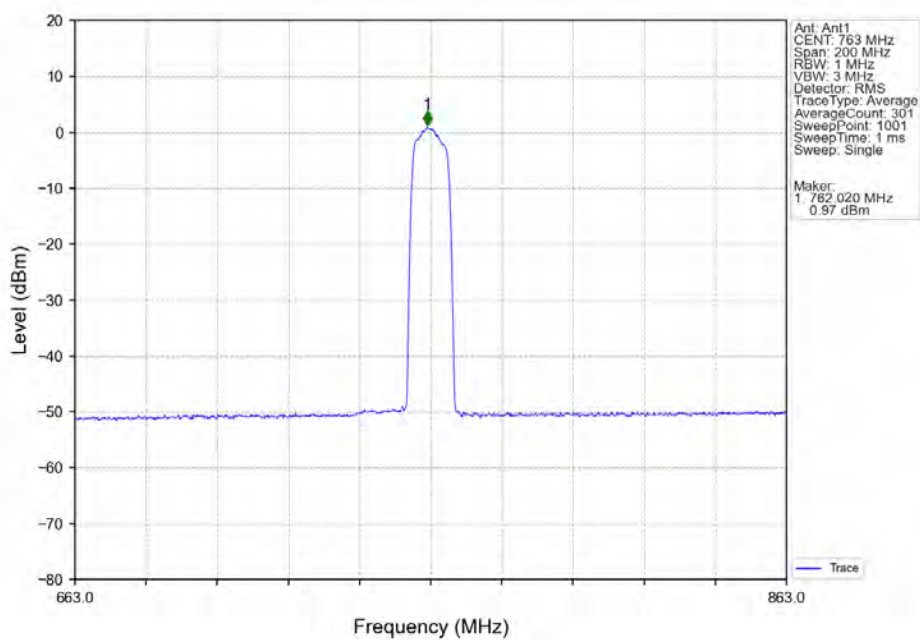
Band14_763MHz_AWGN_SISO_Ant1_NTNV_AGC



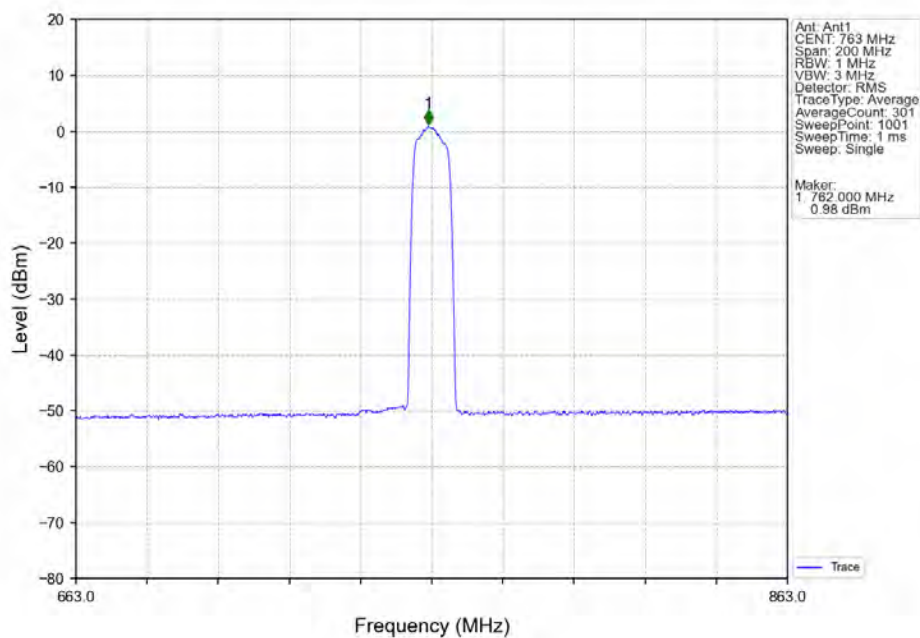
Band14_763MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band14_763MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Band14_763MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



4.2.2 Band14_PAPR

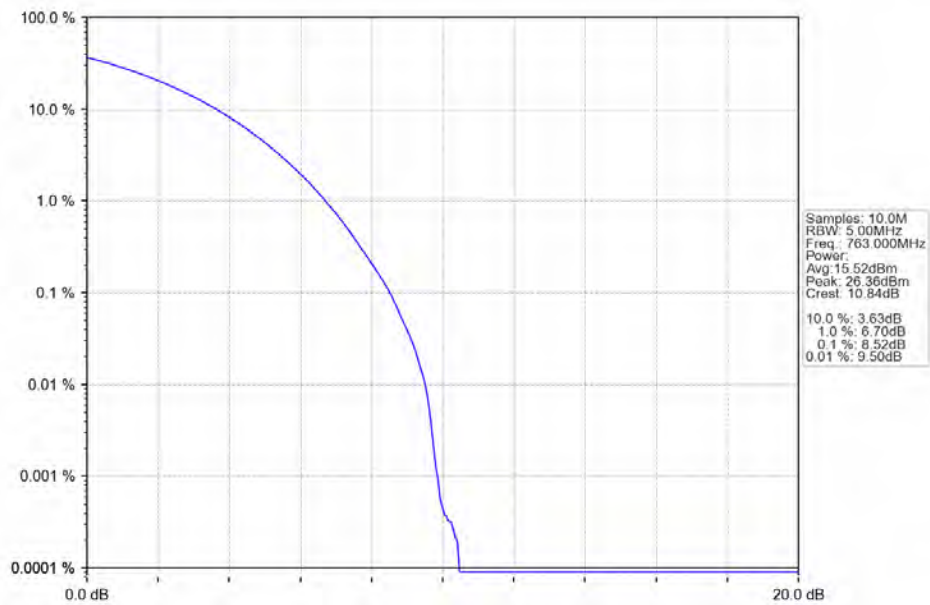
Band14_763MHz_GMSK_SISO_Ant1_NTNV_AGC



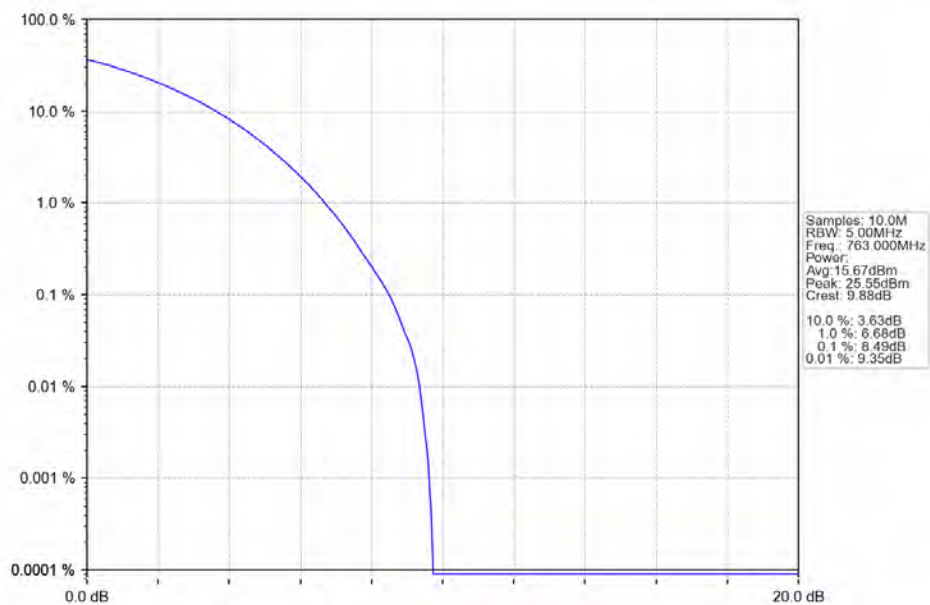
Band14_763MHz_GMSK_SISO_Ant1_NTNV_AGC+3



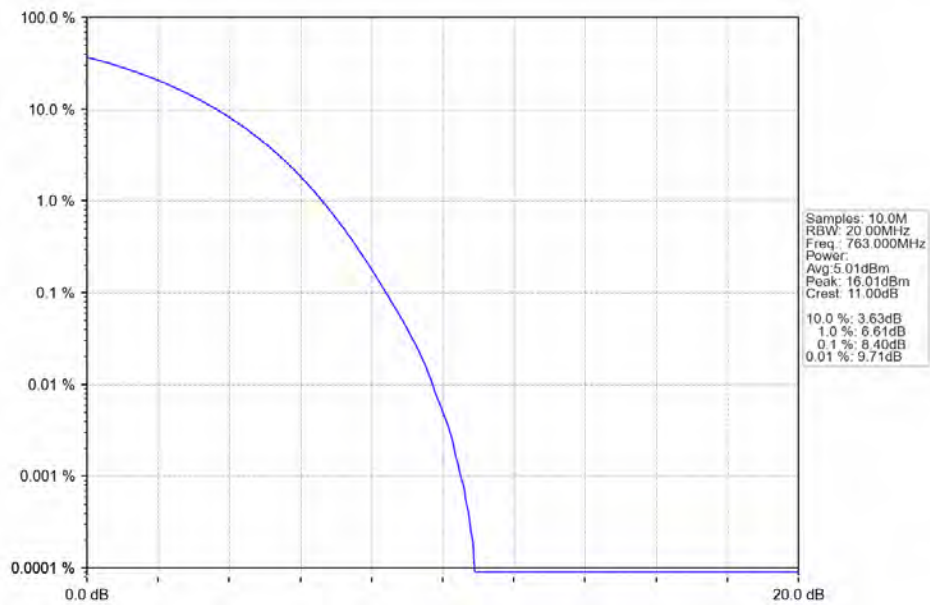
Band14_763MHz_AWGN_SISO_Ant1_NTNV_AGC



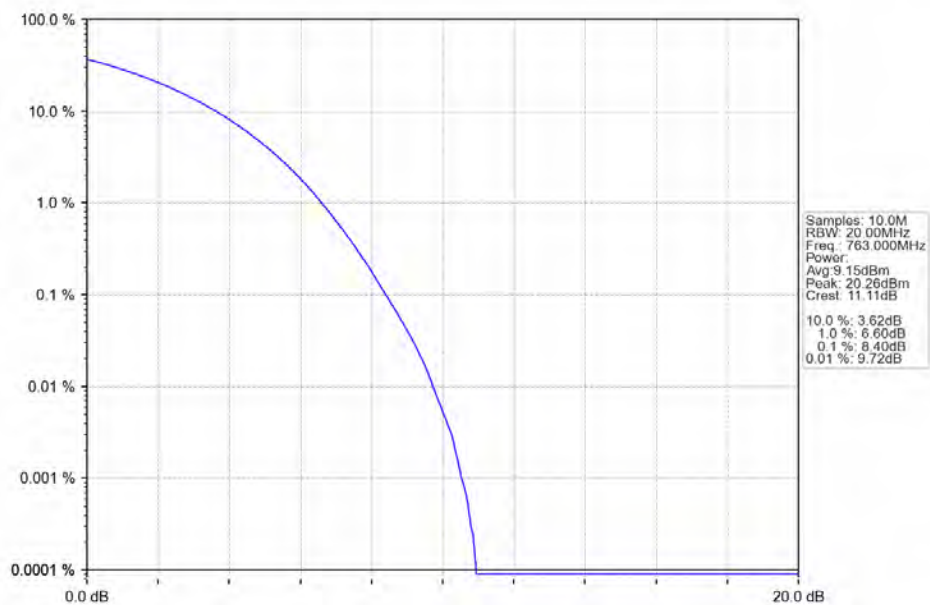
Band14_763MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band14_763MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Band14_763MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



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

5.1 Test Result

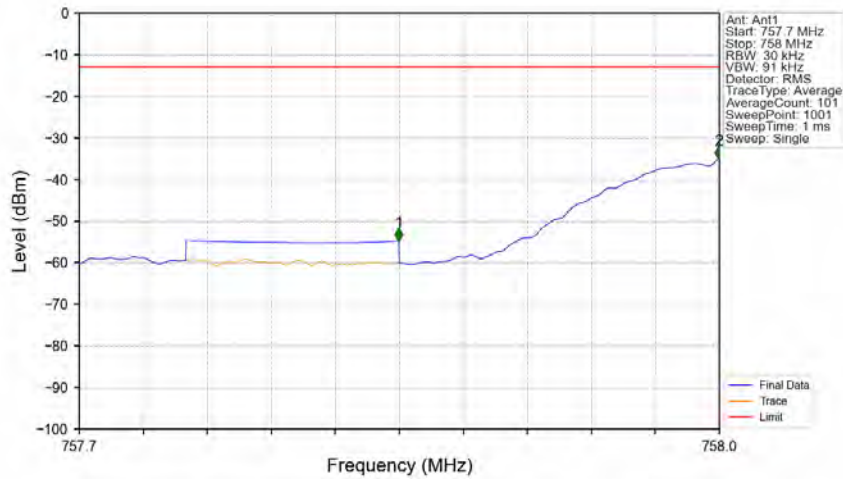
5.1.1 Band14

Band: 14 / NTVN									
Signal				Channel	TX Type	ANT	OOB (dBm)		Verdict
Input	Type	Level (dBm)	Frequency (MHz)				Result	Limit	
Two	GMSK 0.2MHz	-1.2	758.2	LCH	SISO	1	-32.01	Refer To Test Graph	Pass
		1.8	758.2	LCH	SISO	1	-32.29	Refer To Test Graph	Pass
One	GMSK 0.2MHz	-1.2	758.2	LCH	SISO	1	-31.04	Refer To Test Graph	Pass
		1.8	758.2	LCH	SISO	1	-32.22	Refer To Test Graph	Pass
Two	GMSK 0.2MHz	-1.2	767.8	HCH	SISO	1	-33.10	Refer To Test Graph	Pass
		1.8	767.8	HCH	SISO	1	-33.27	Refer To Test Graph	Pass
One	GMSK 0.2MHz	-1.2	767.8	HCH	SISO	1	-33.86	Refer To Test Graph	Pass
		1.8	767.8	HCH	SISO	1	-33.20	Refer To Test Graph	Pass
Two	AWGN 5MHz	-1.2	760.5	LCH	SISO	1	-35.59	Refer To Test Graph	Pass
		1.8	760.5	LCH	SISO	1	-36.58	Refer To Test Graph	Pass
One	AWGN 5MHz	-1.2	760.5	LCH	SISO	1	-35.89	Refer To Test Graph	Pass
		1.8	760.5	LCH	SISO	1	-36.23	Refer To Test Graph	Pass
Two	AWGN 5MHz	-1.2	765.5	HCH	SISO	1	-38.41	Refer To Test Graph	Pass
		1.8	765.5	HCH	SISO	1	-37.43	Refer To Test Graph	Pass
One	AWGN 5MHz	-1.2	765.5	HCH	SISO	1	-38.65	Refer To Test Graph	Pass
		1.8	765.5	HCH	SISO	1	-36.81	Refer To Test Graph	Pass
Two	AWGN 100MHz	-1.2	808	LCH	SISO	1	-61.24	Refer To Test Graph	Pass
		1.8	808	LCH	SISO	1	-57.50	Refer To Test Graph	Pass
One	AWGN 100MHz	-1.2	808	LCH	SISO	1	-61.74	Refer To Test Graph	Pass
		1.8	808	LCH	SISO	1	-57.62	Refer To Test Graph	Pass
Two	AWGN 100MHz	-1.2	718	HCH	SISO	1	-62.02	Refer To Test Graph	Pass
		1.8	718	HCH	SISO	1	-58.88	Refer To Test Graph	Pass
One	AWGN 100MHz	-1.2	718	HCH	SISO	1	-62.39	Refer To Test Graph	Pass
		1.8	718	HCH	SISO	1	-59.62	Refer To Test Graph	Pass
Note: This EUT supports 2*2 MIMO, since we only presented the results of a test port of the worst, so we add the test result 10 * log (2).									

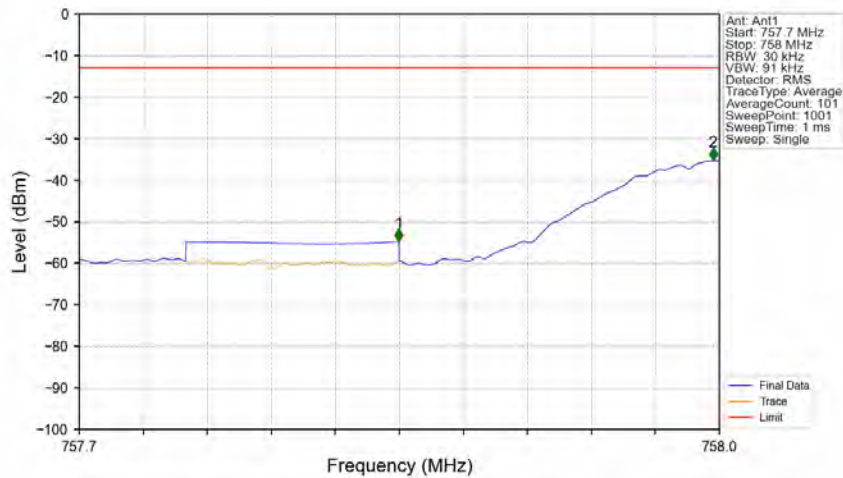
5.2 Test Graph

5.2.1 Band14

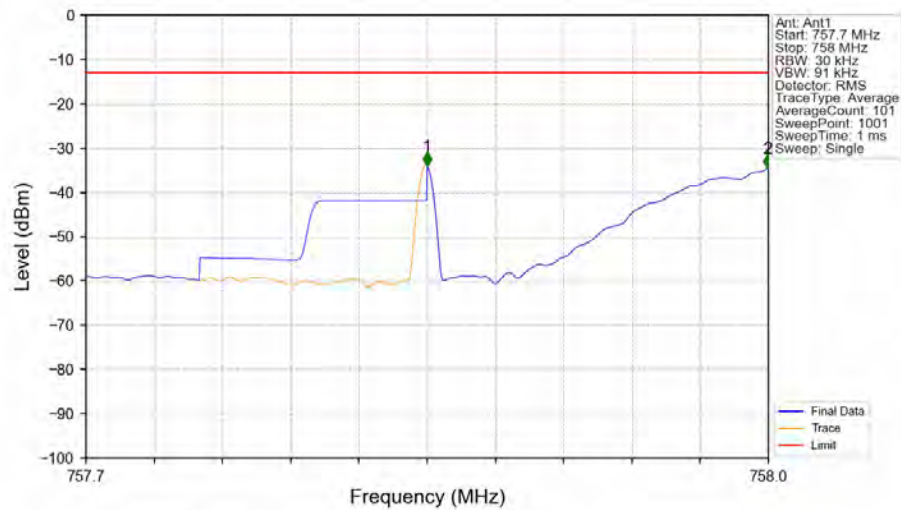
Band14_758.2MHz_GMSK_SISO_Ant1_NTNV_AGC



Band14_758.2MHz_GMSK_SISO_Ant1_NTNV_AGC+3

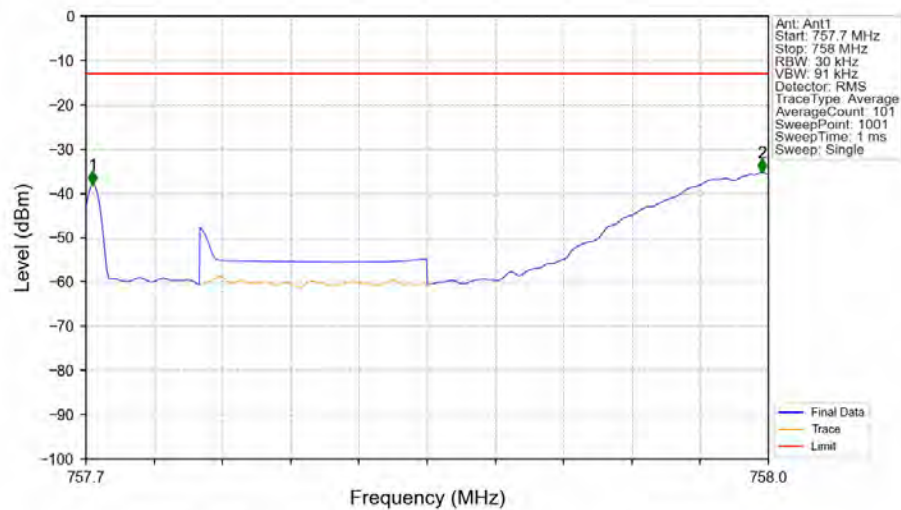


Band14_758.2MHz_GMSK_SISO_Ant1_NTNV_AGC



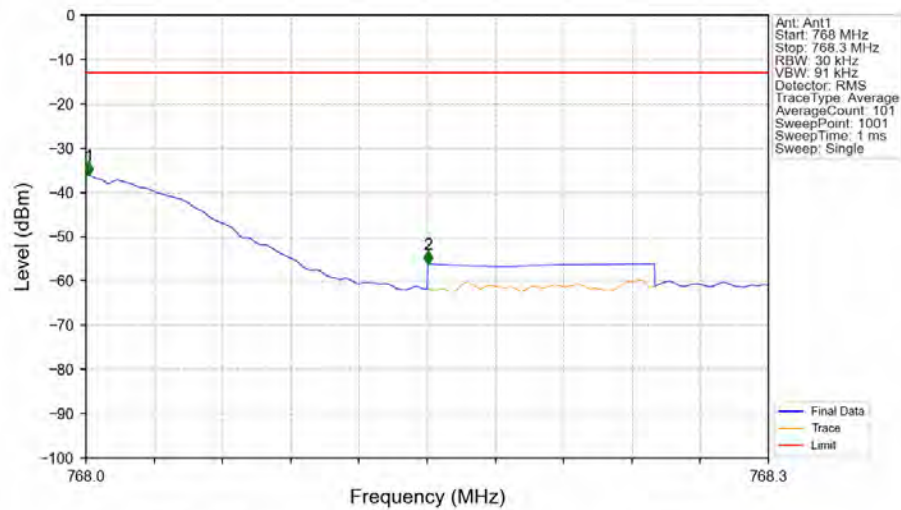
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
757.7	757.9	0.1	CHP	1	757.850	-34.05	-13	Pass
757.9	758	0.03	/	2	758.000	-34.48	-13	Pass

Band14_758.2MHz_GMSK_SISO_Ant1_NTNV_AGC+3



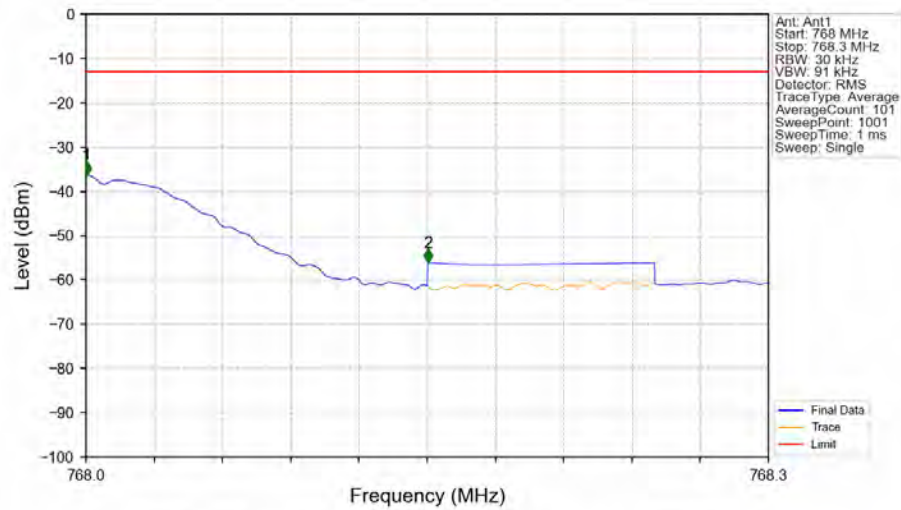
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
757.7	757.9	0.1	CHP	1	757.703	-37.97	-13	Pass
757.9	758	0.03	/	2	757.997	-35.23	-13	Pass

Band14_767.8MHz_GMSK_SISO_Ant1_NTNV_AGC



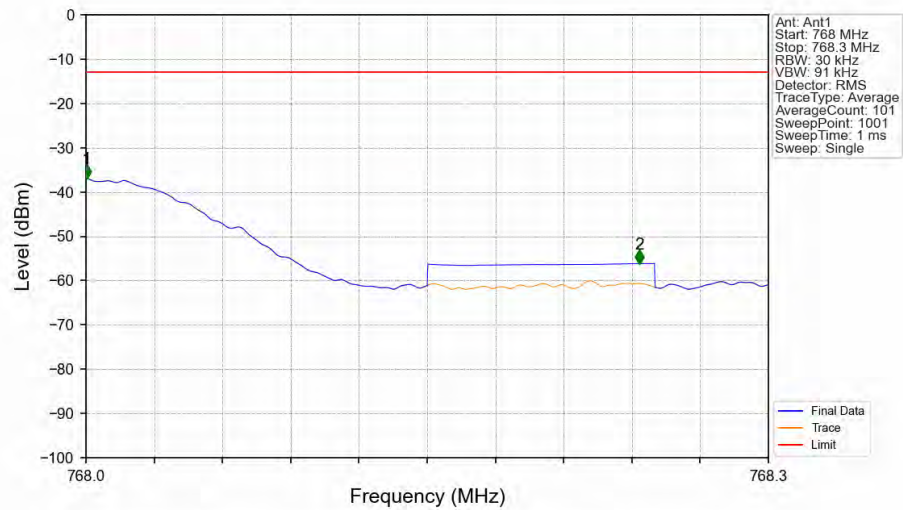
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
768	768.1	0.03	/	1	768.001	-36.11	-13	Pass
768.1	768.3	0.1	CHP	2	768.150	-56.16	-13	Pass

Band14_767.8MHz_GMSK_SISO_Ant1_NTNV_AGC+3



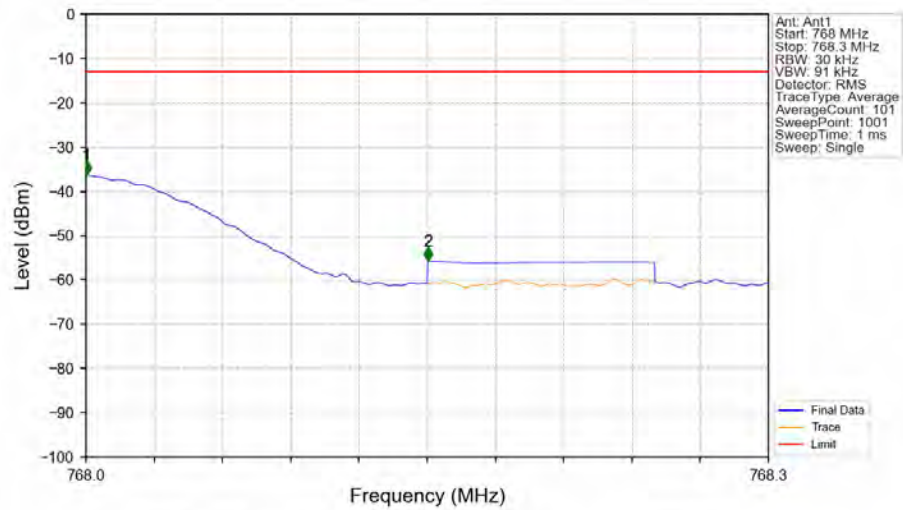
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
768	768.1	0.03	/	1	768.000	-36.29	-13	Pass
768.1	768.3	0.1	CHP	2	768.150	-56.10	-13	Pass

Band14_767.8MHz_GMSK_SISO_Ant1_NTNV_AGC



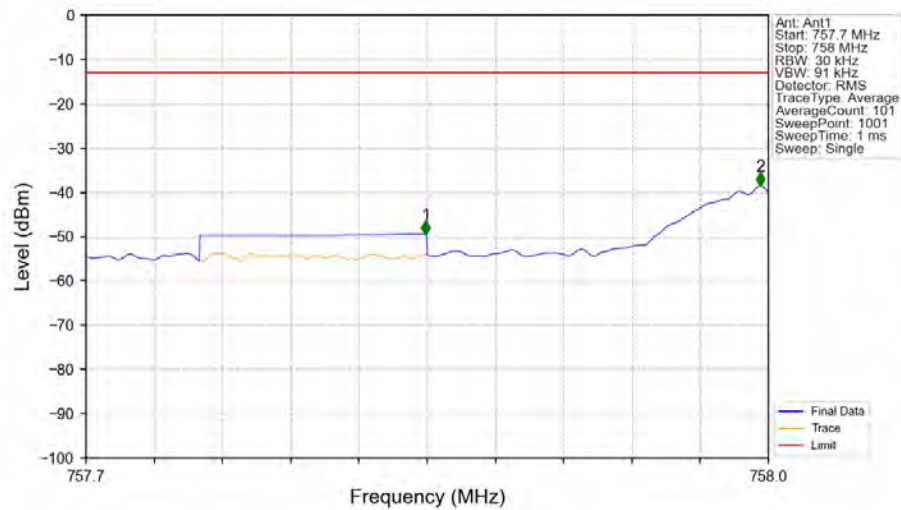
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
768	768.1	0.03	/	1	768.000	-36.87	-13	Pass
768.1	768.3	0.1	CHP	2	768.243	-56.18	-13	Pass

Band14_767.8MHz_GMSK_SISO_Ant1_NTNV_AGC+3



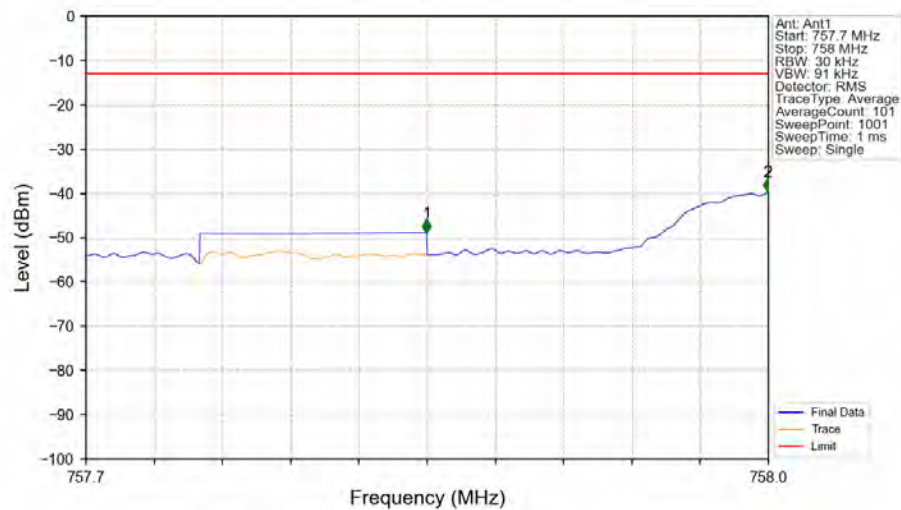
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
768	768.1	0.03	/	1	768.000	-36.21	-13	Pass
768.1	768.3	0.1	CHP	2	768.150	-55.74	-13	Pass

Band14_760.5MHz_AWGN_SISO_Ant1_NTNV_AGC



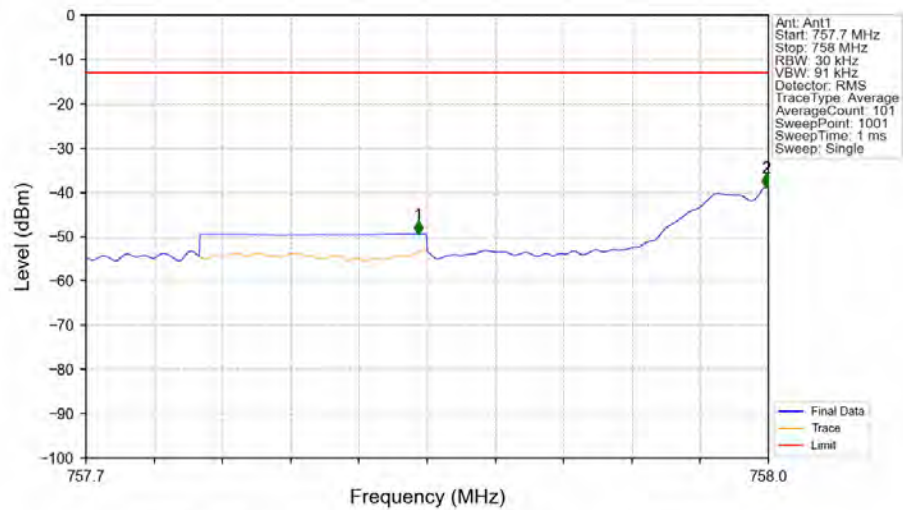
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
757.7	757.9	0.1	CHP	1	757.849	-49.43	-13	Pass
757.9	758	0.03	/	2	757.996	-38.60	-13	Pass

Band14_760.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



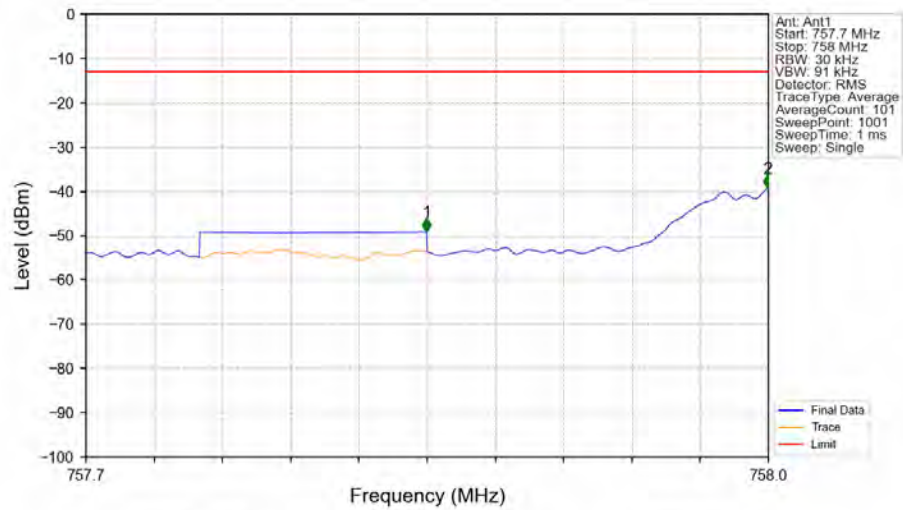
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
757.7	757.9	0.1	CHP	1	757.850	-48.87	-13	Pass
757.9	758	0.03	/	2	758.000	-39.59	-13	Pass

Band14_760.5MHz_AWGN_SISO_Ant1_NTNV_AGC



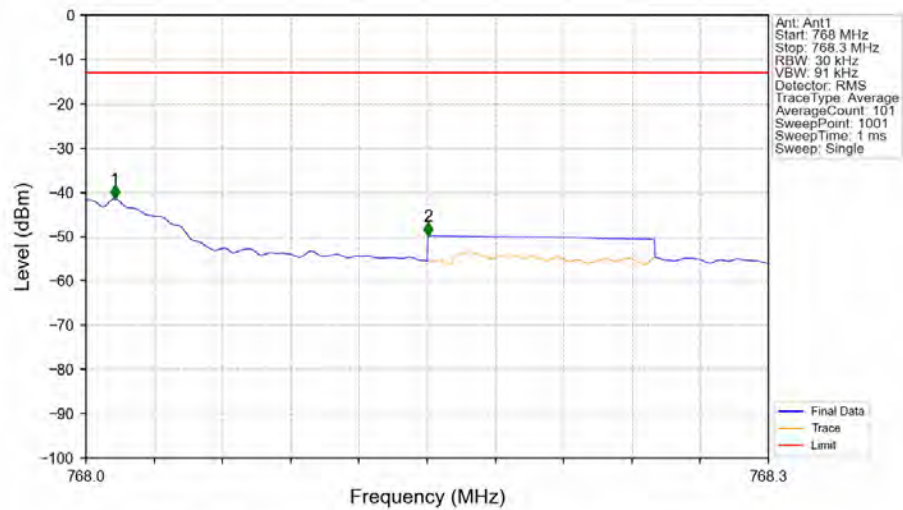
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
757.7	757.9	0.1	CHP	1	757.846	-49.43	-13	Pass
757.9	758	0.03	/	2	757.999	-38.90	-13	Pass

Band14_760.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



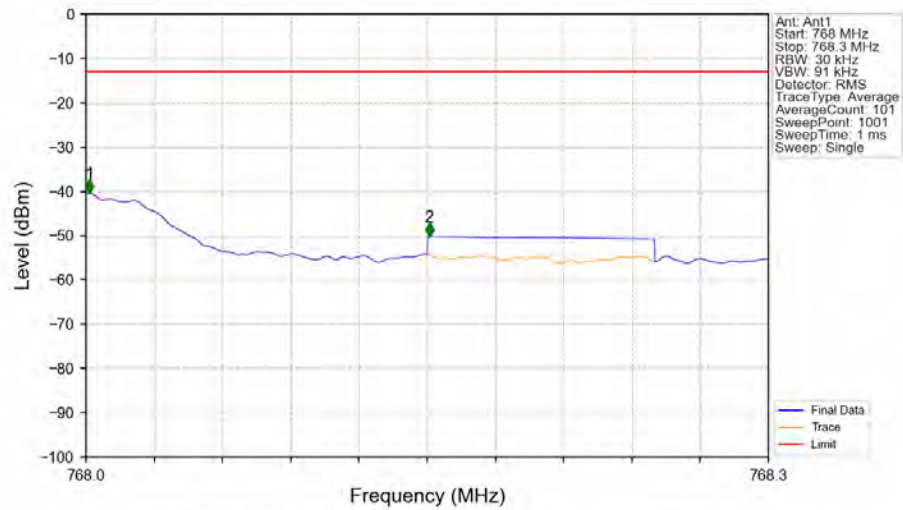
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
757.7	757.9	0.1	CHP	1	757.850	-49.14	-13	Pass
757.9	758	0.03	/	2	758.000	-39.24	-13	Pass

Band14_765.5MHz_AWGN_SISO_Ant1_NTNV_AGC



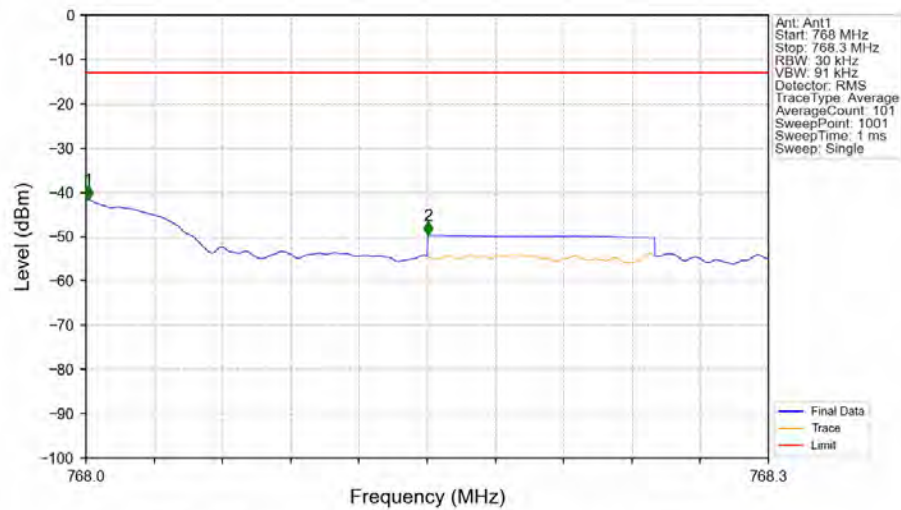
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
768	768.1	0.03	/	1	768.013	-41.42	-13	Pass
768.1	768.3	0.1	CHP	2	768.150	-49.81	-13	Pass

Band14_765.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



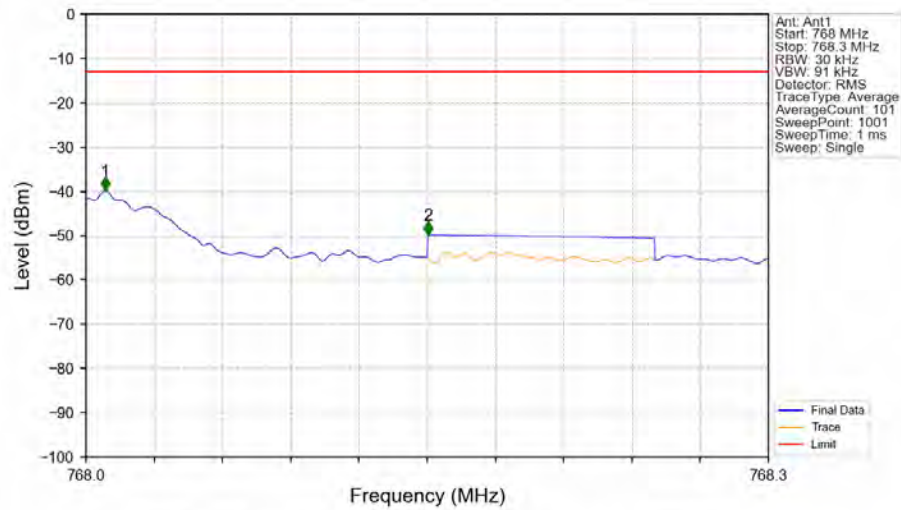
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
768	768.1	0.03	/	1	768.001	-40.44	-13	Pass
768.1	768.3	0.1	CHP	2	768.151	-50.18	-13	Pass

Band14_765.5MHz_AWGN_SISO_Ant1_NTNV_AGC



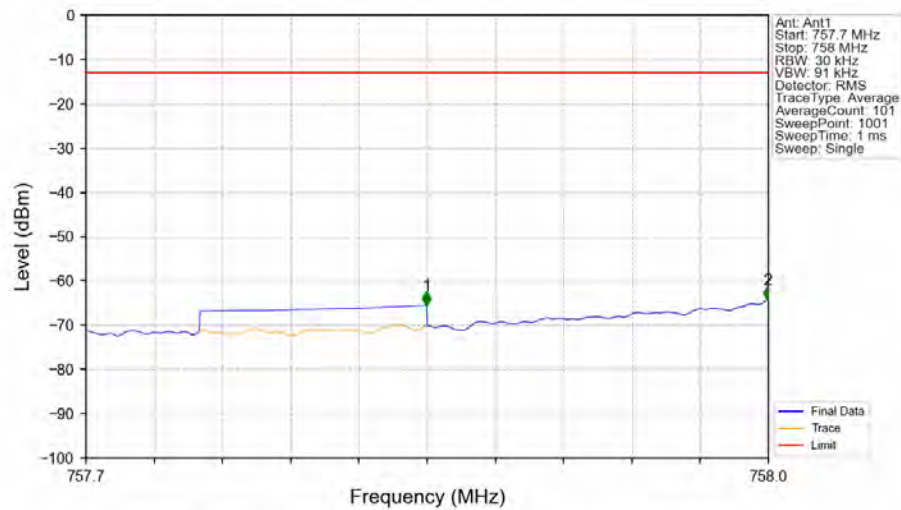
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
768	768.1	0.03	/	1	768.001	-41.66	-13	Pass
768.1	768.3	0.1	CHP	2	768.150	-49.67	-13	Pass

Band14_765.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



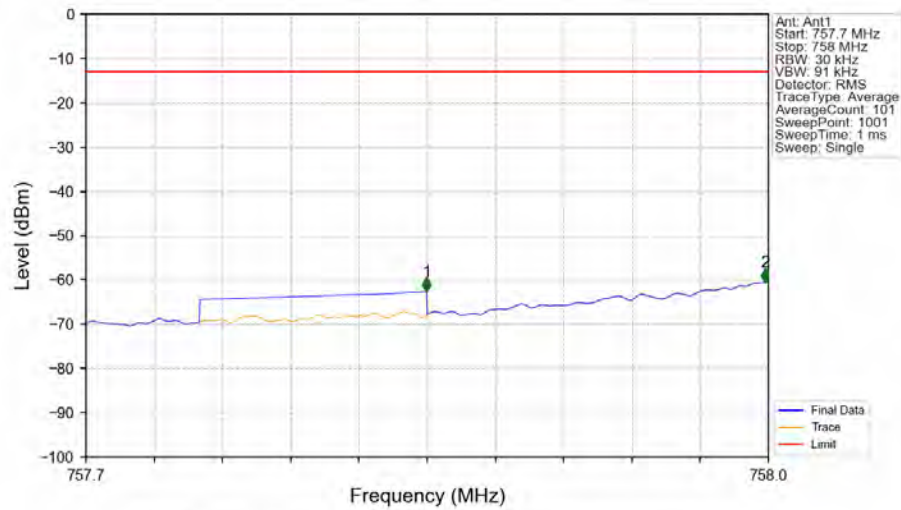
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
768	768.1	0.03	/	1	768.008	-39.82	-13	Pass
768.1	768.3	0.1	CHP	2	768.150	-49.87	-13	Pass

Band14_808MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



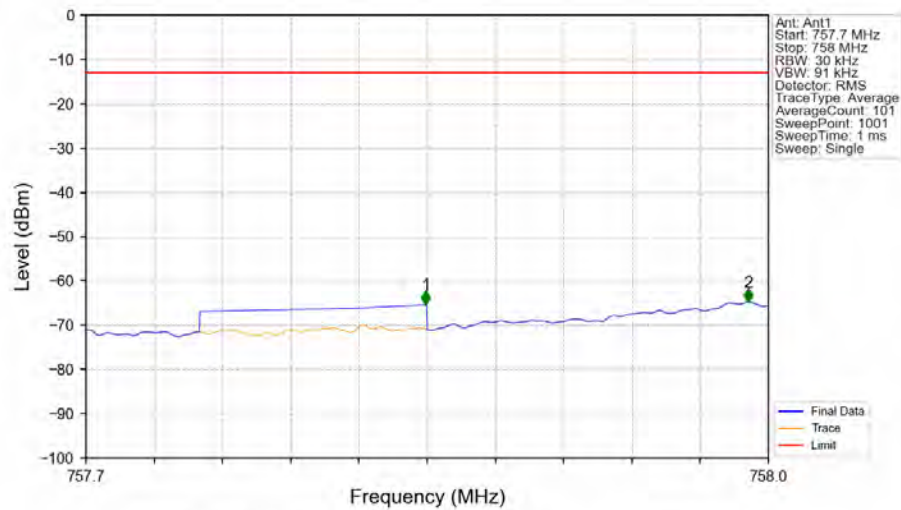
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
757.7	757.9	0.1	CHP	1	757.850	-65.49	-13	Pass
757.9	758	0.03	/	2	758.000	-64.25	-13	Pass

Band14_808MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



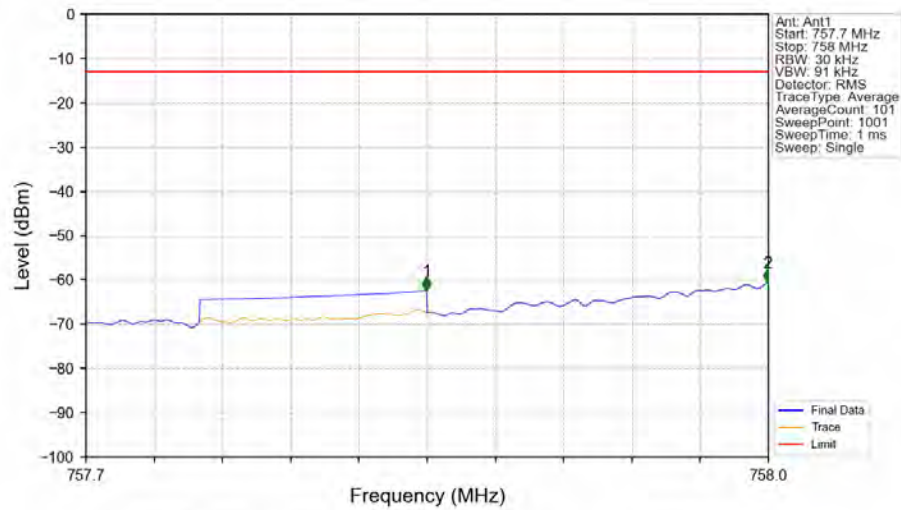
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
757.7	757.9	0.1	CHP	1	757.850	-62.60	-13	Pass
757.9	758	0.03	/	2	757.999	-60.51	-13	Pass

Band14_808MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



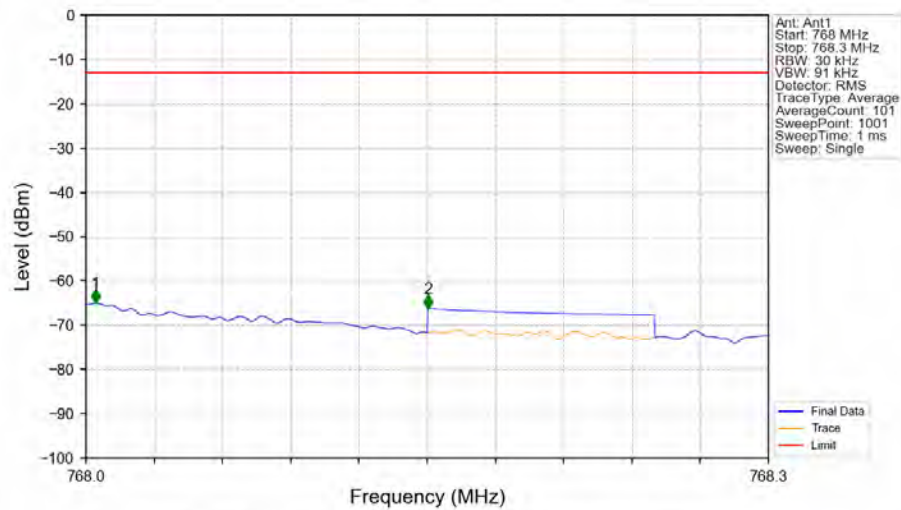
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
757.7	757.9	0.1	CHP	1	757.849	-65.40	-13	Pass
757.9	758	0.03	/	2	757.991	-64.75	-13	Pass

Band14_808MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



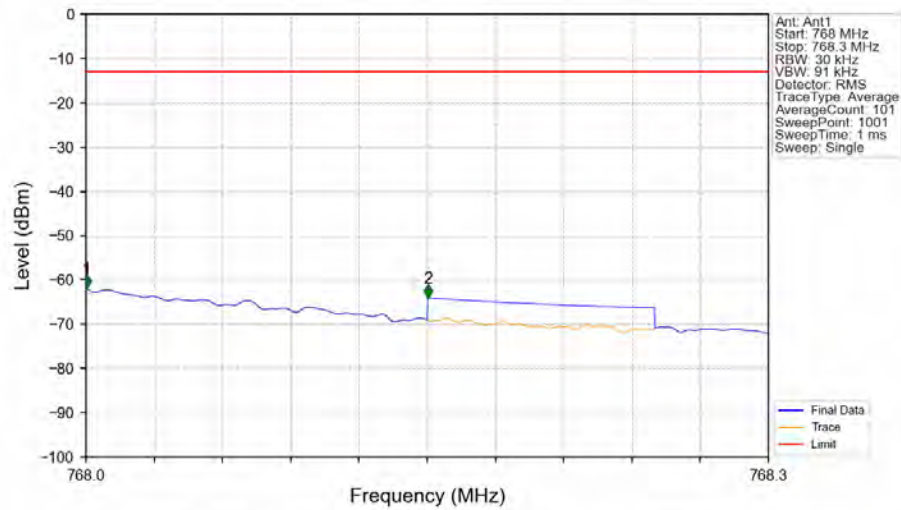
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
757.7	757.9	0.1	CHP	1	757.850	-62.43	-13	Pass
757.9	758	0.03	/	2	758.000	-60.63	-13	Pass

Band14_718MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



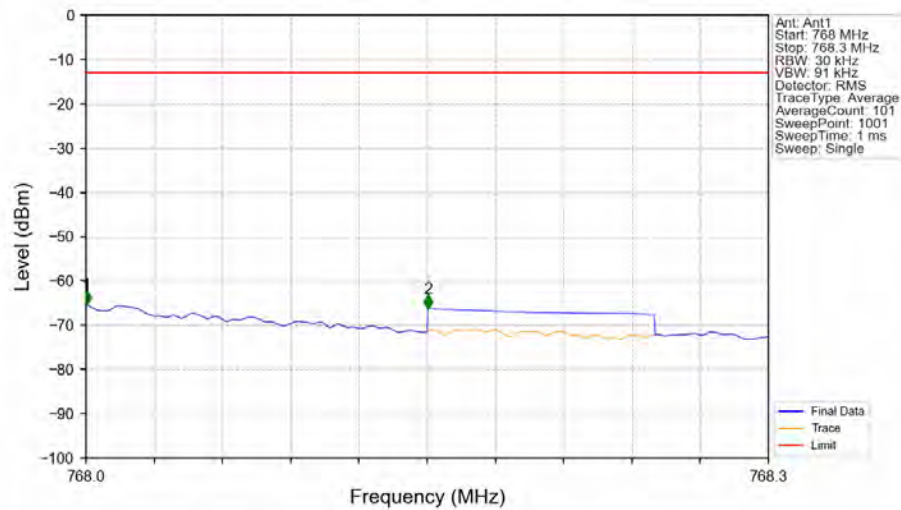
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
768	768.1	0.03	/	1	768.004	-65.03	-13	Pass
768.1	768.3	0.1	CHP	2	768.150	-66.27	-13	Pass

Band14_718MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



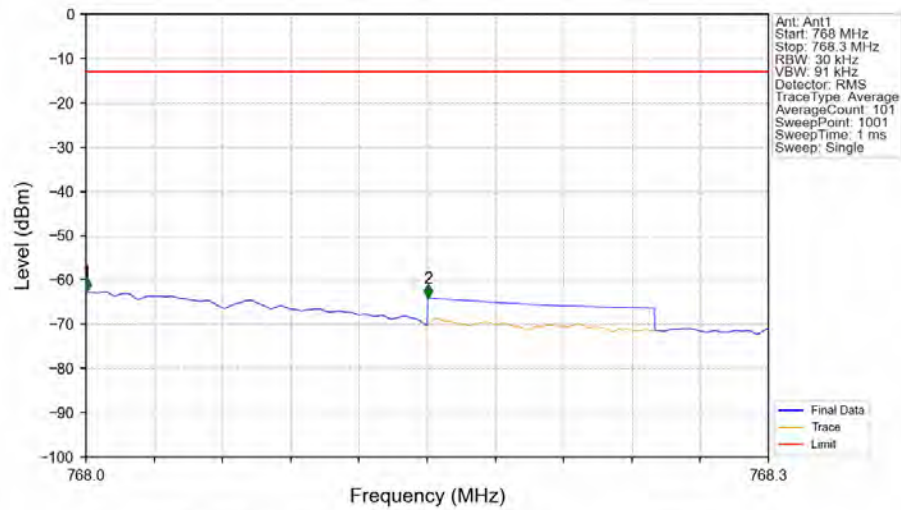
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
768	768.1	0.03	/	1	768.000	-61.89	-13	Pass
768.1	768.3	0.1	CHP	2	768.150	-64.05	-13	Pass

Band14_718MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
768	768.1	0.03	/	1	768.000	-65.40	-13	Pass
768.1	768.3	0.1	CHP	2	768.150	-66.26	-13	Pass

Band14_718MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
768	768.1	0.03	/	1	768.000	-62.63	-13	Pass
768.1	768.3	0.1	CHP	2	768.150	-64.09	-13	Pass



6. Spurious emissions

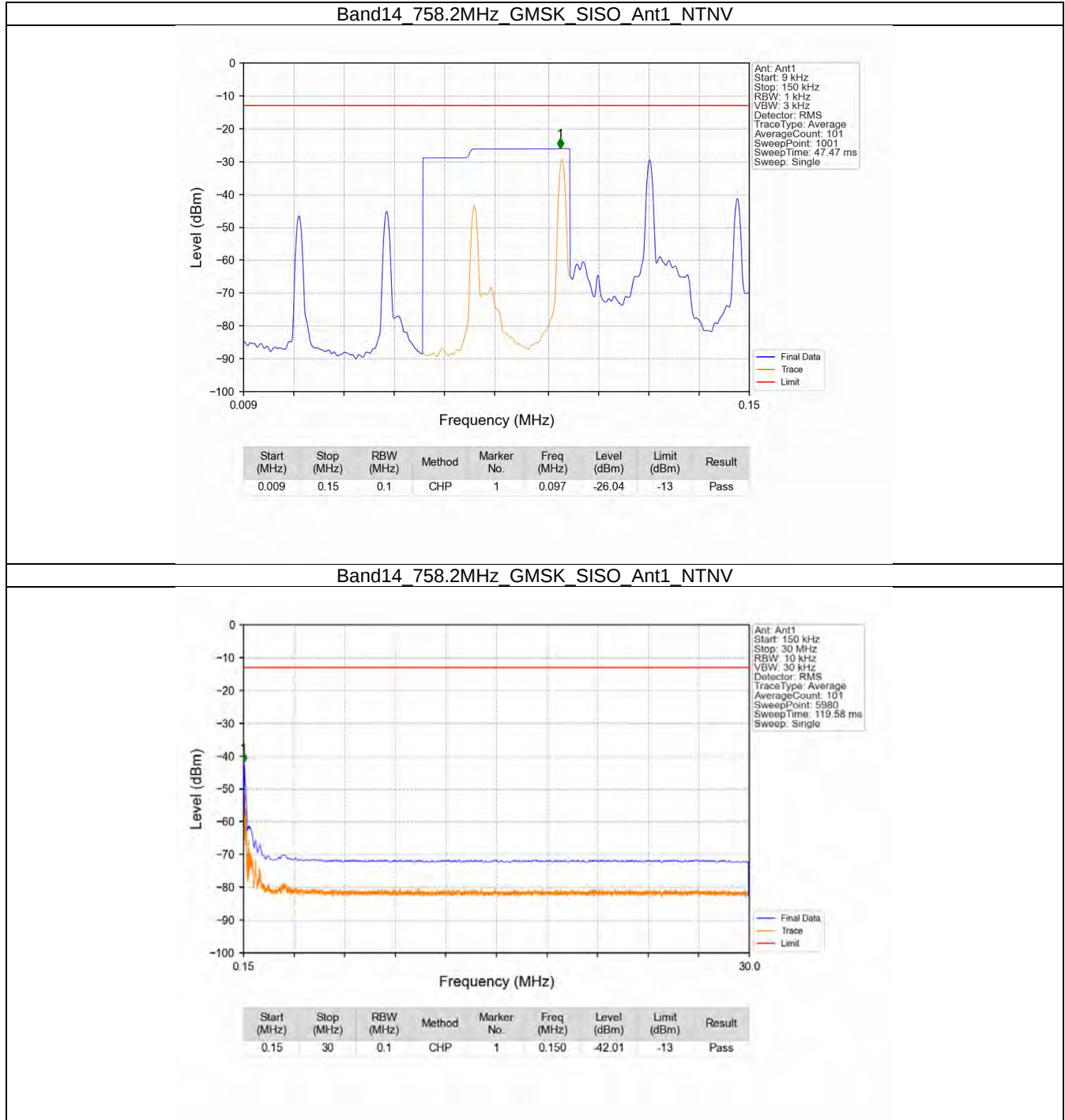
6.1 Test Result

6.1.1 Band14

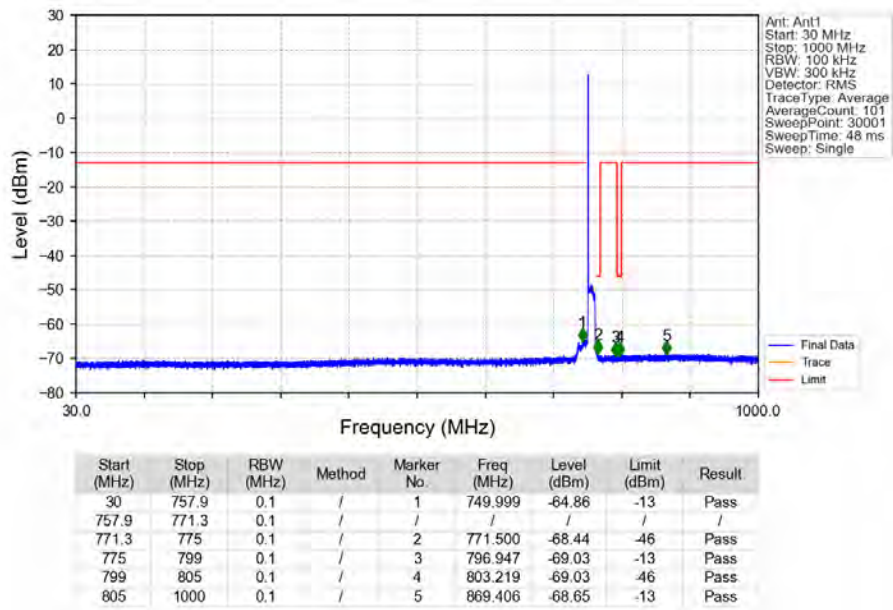
Band: 14 / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
GMSK 0.2MHz	-1.2	758.2	LCH	SISO	1	Refer To Test Graph		Pass
		763	MCH	SISO	1	Refer To Test Graph		Pass
		767.8	HCH	SISO	1	Refer To Test Graph		Pass
AWGN 5MHz	-1.2	760.5	LCH	SISO	1	Refer To Test Graph		Pass
		763	MCH	SISO	1	Refer To Test Graph		Pass
		765.5	HCH	SISO	1	Refer To Test Graph		Pass
AWGN 100MHz	-1.2	808	LCH	SISO	1	Refer To Test Graph		Pass
		763	MCH	SISO	1	Refer To Test Graph		Pass
		718	HCH	SISO	1	Refer To Test Graph		Pass

6.2 Test Graph

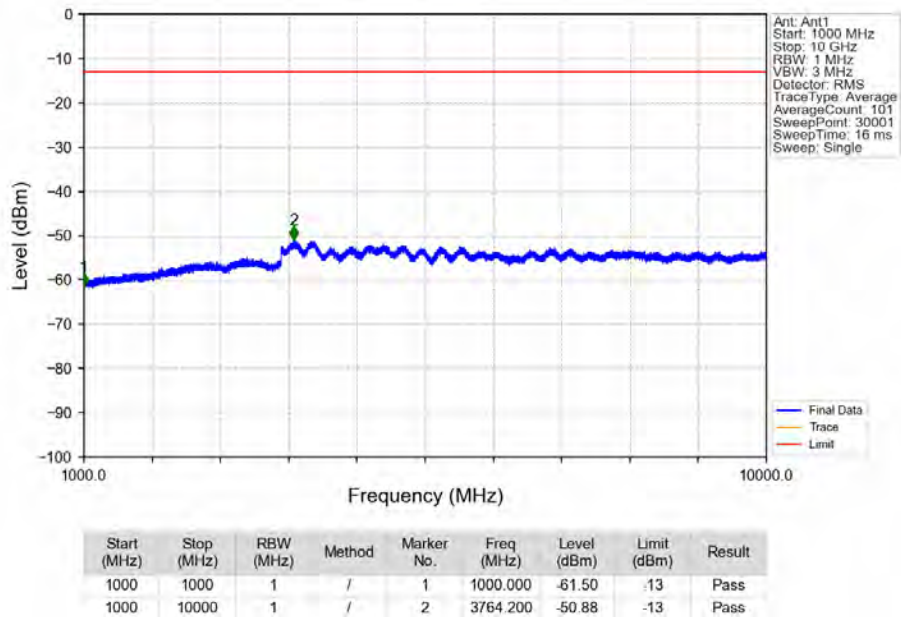
6.2.1 Band14



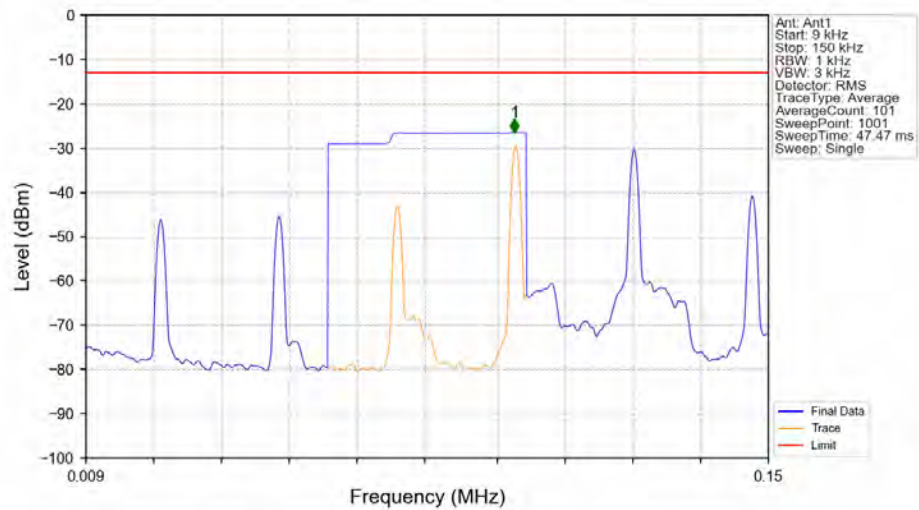
Band14_758.2MHz_GMSK_SISO_Ant1_NTNV



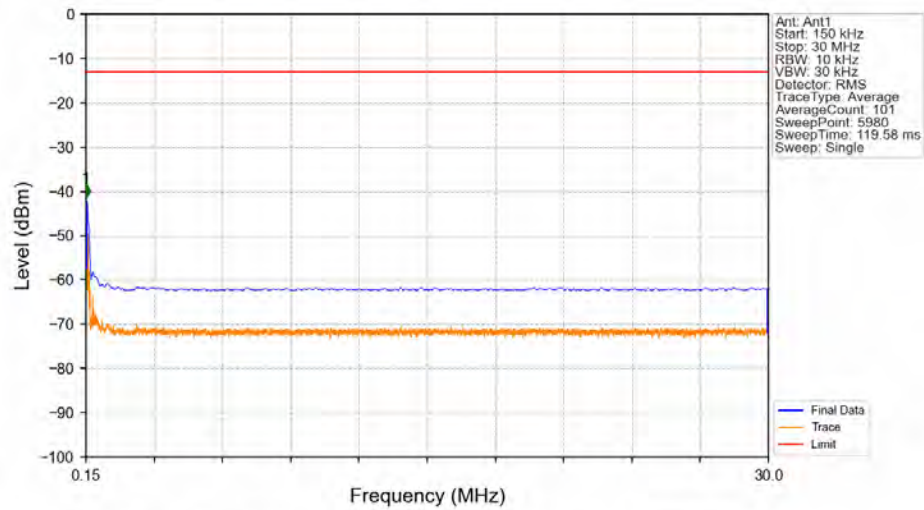
Band14_758.2MHz_GMSK_SISO_Ant1_NTNV



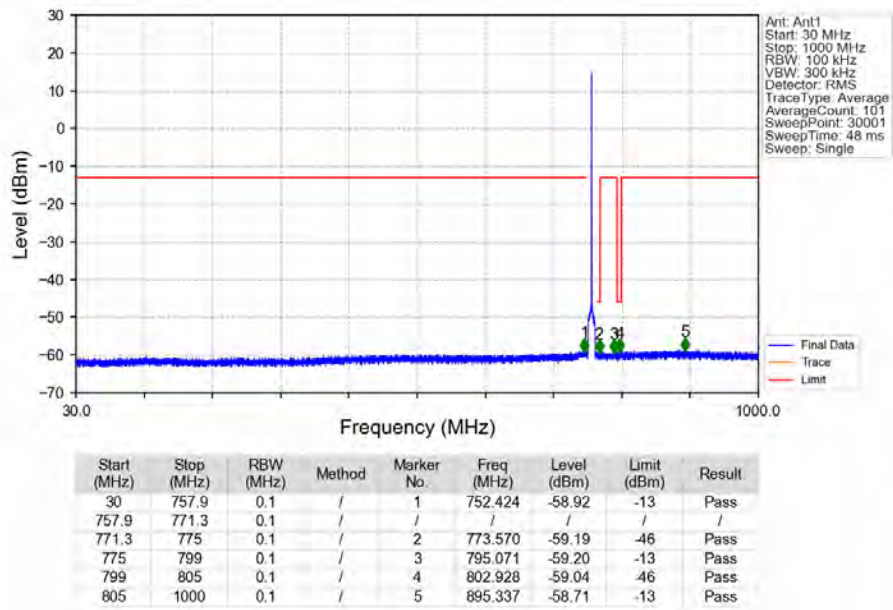
Band14_763MHz_GMSK_SISO_Ant1_NTNV



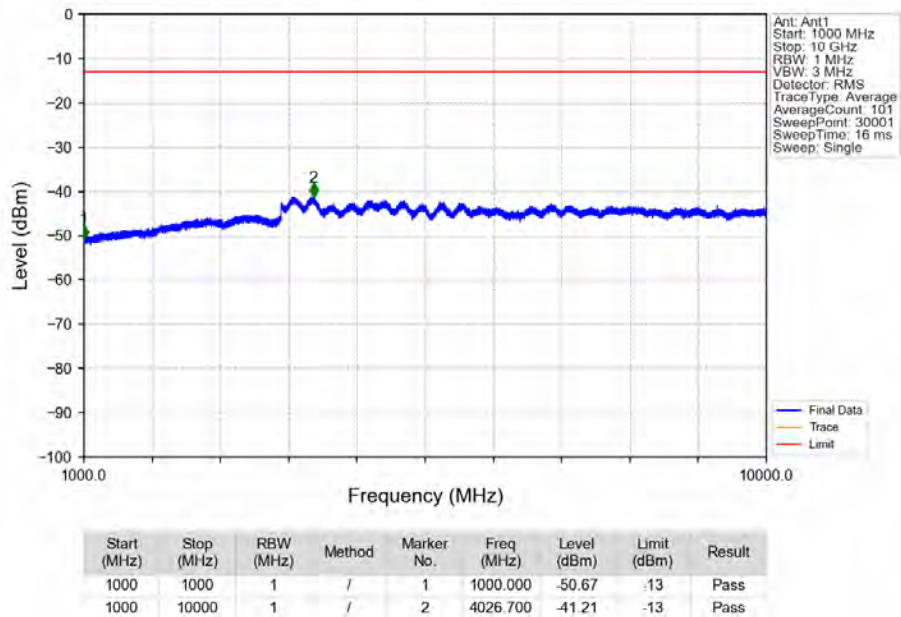
Band14_763MHz_GMSK_SISO_Ant1_NTNV



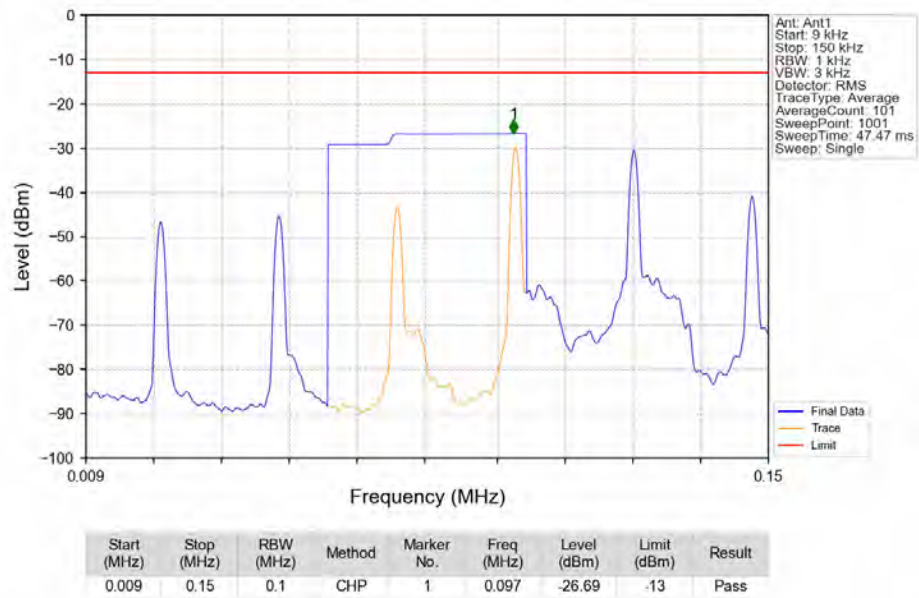
Band14_763MHz_GMSK_SISO_Ant1_NTNV



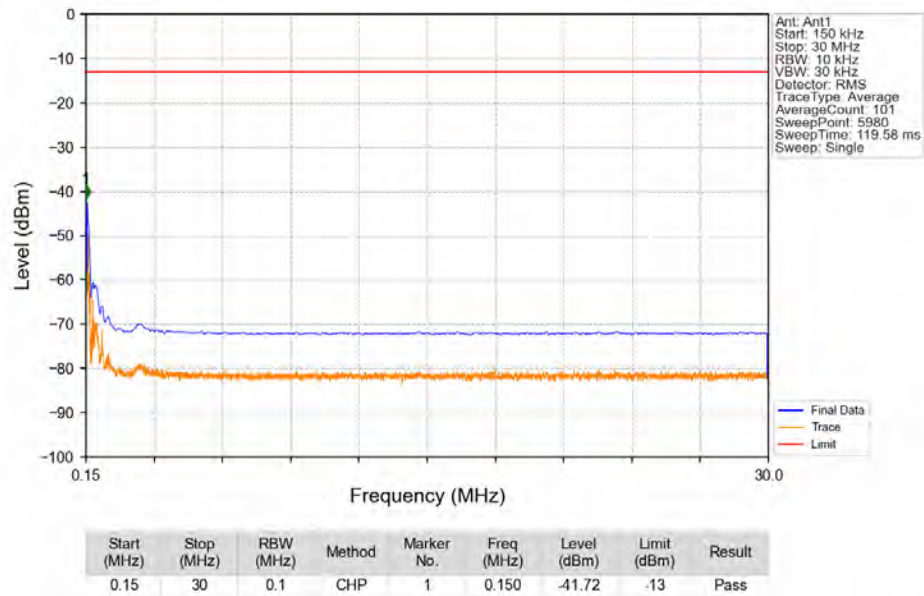
Band14_763MHz_GMSK_SISO_Ant1_NTNV



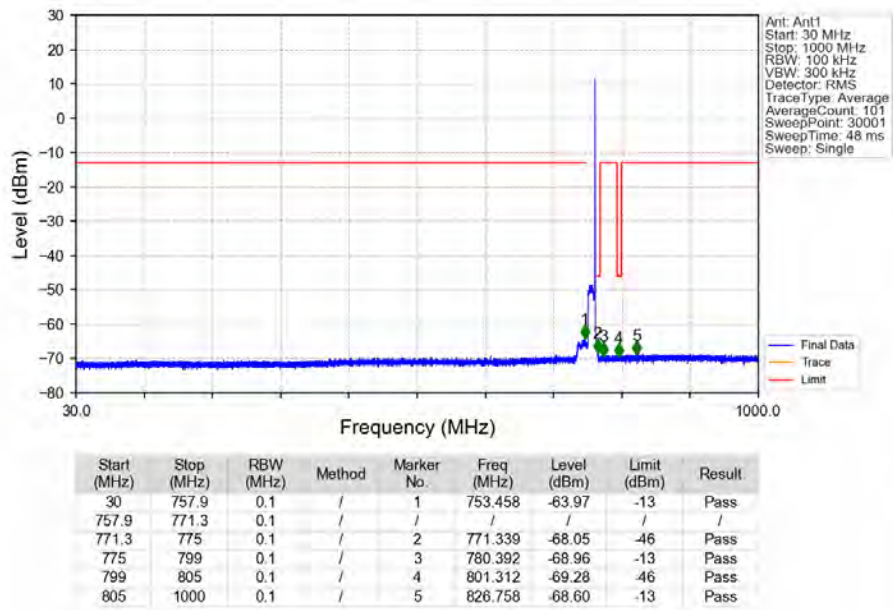
Band14_767.8MHz_GMSK_SISO_Ant1_NTNV



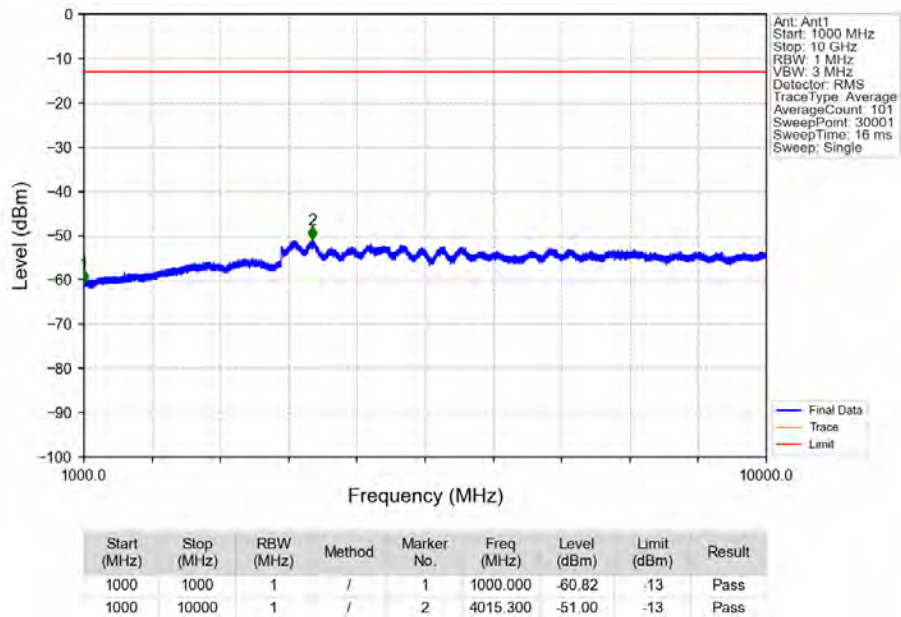
Band14_767.8MHz_GMSK_SISO_Ant1_NTNV



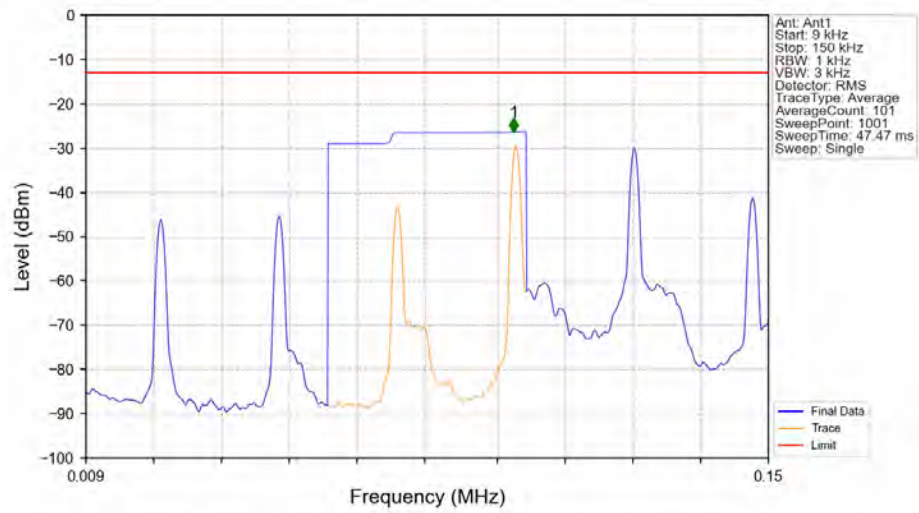
Band14_767.8MHz_GMSK_SISO_Ant1_NTNV



Band14_767.8MHz_GMSK_SISO_Ant1_NTNV

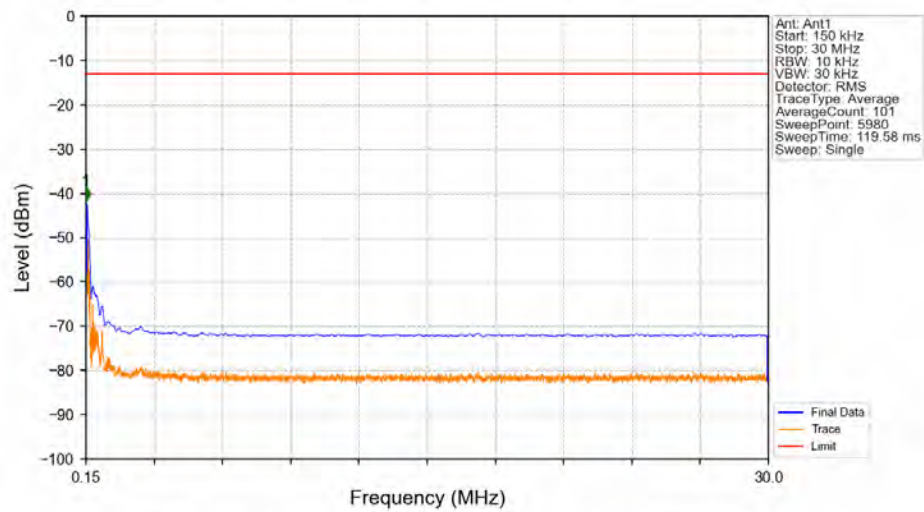


Band14_760.5MHz_AWGN_SISO_Ant1_NTNV



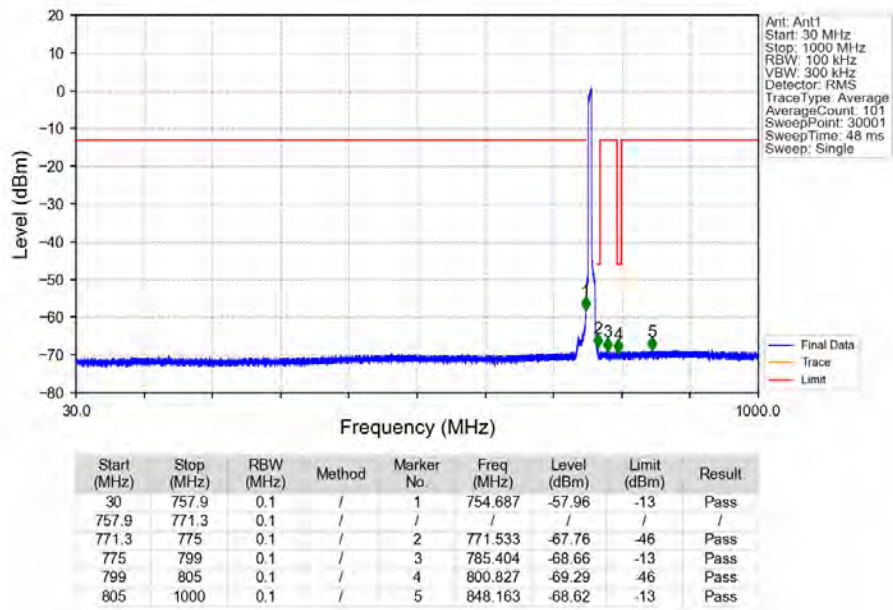
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	0.1	CHP	1	0.097	-26.35	-13	Pass

Band14_760.5MHz_AWGN_SISO_Ant1_NTNV

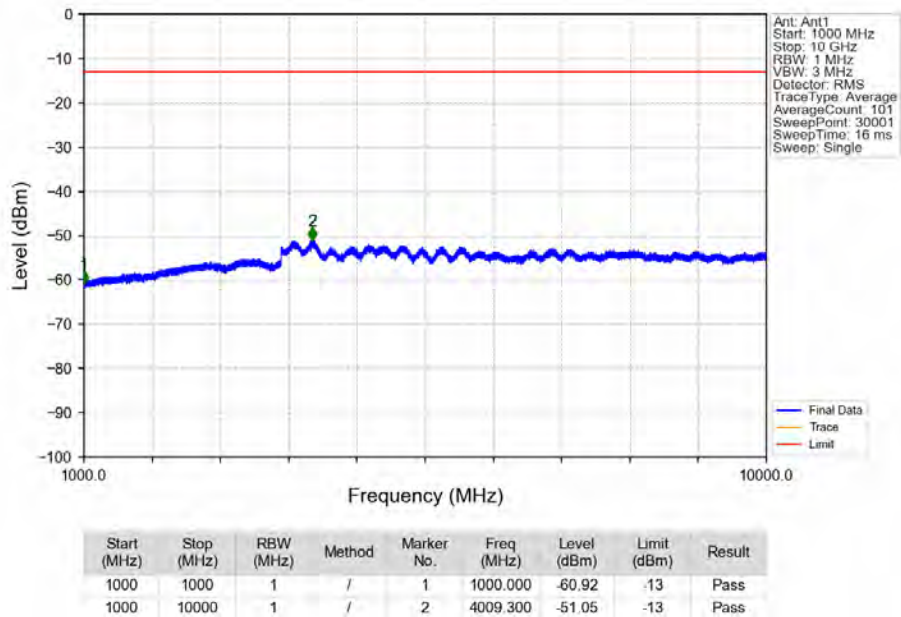


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	0.1	CHP	1	0.150	-41.59	-13	Pass

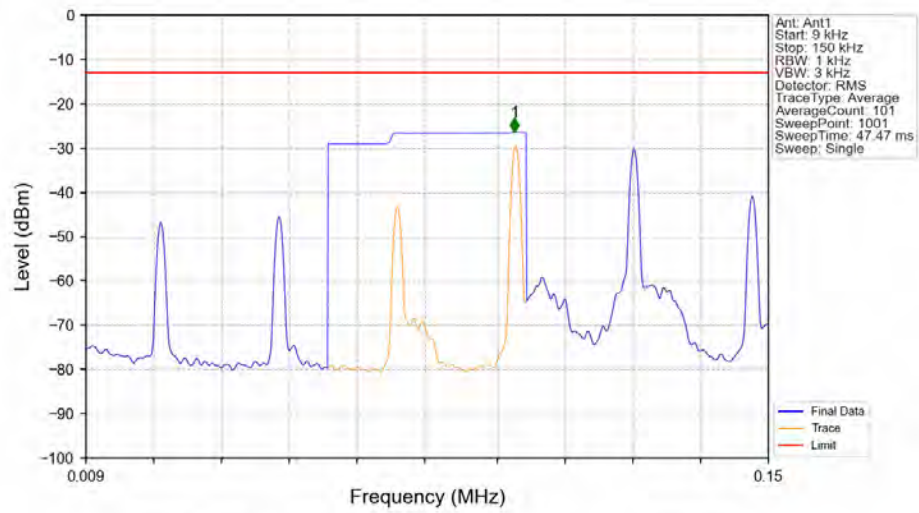
Band14_760.5MHz_AWGN_SISO_Ant1_NTNV



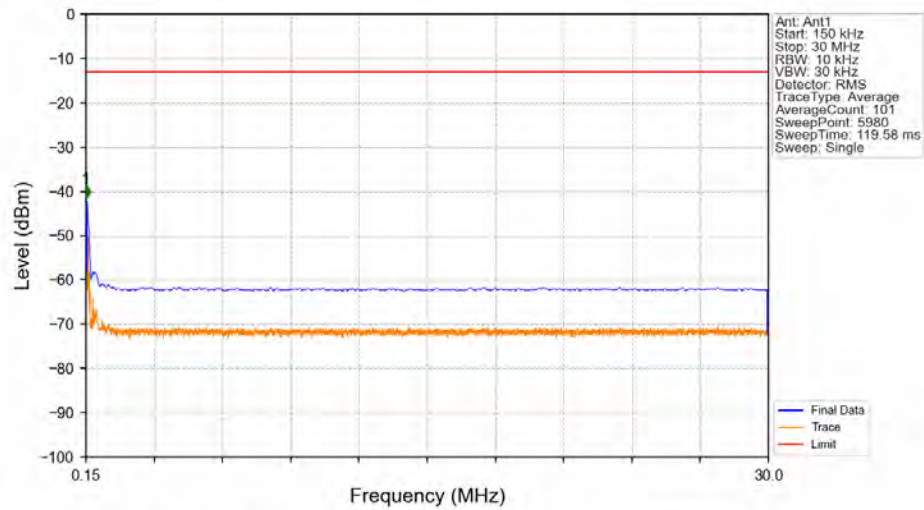
Band14_760.5MHz_AWGN_SISO_Ant1_NTNV



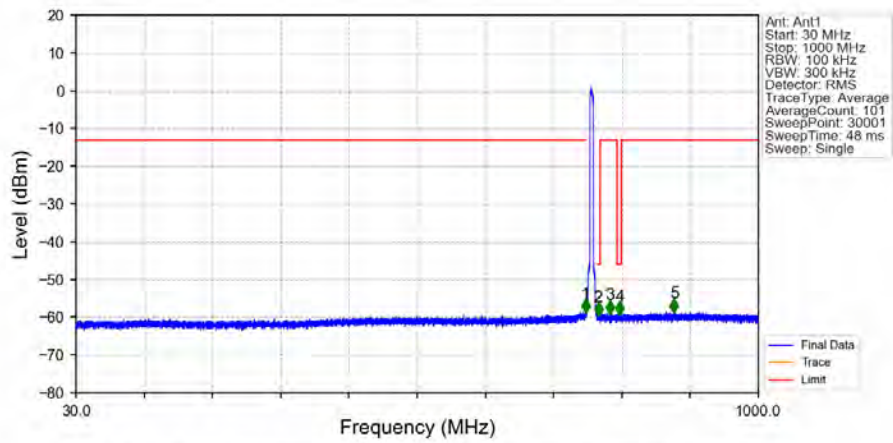
Band14_763MHz_AWGN_SISO_Ant1_NTNV



Band14_763MHz_AWGN_SISO_Ant1_NTNV

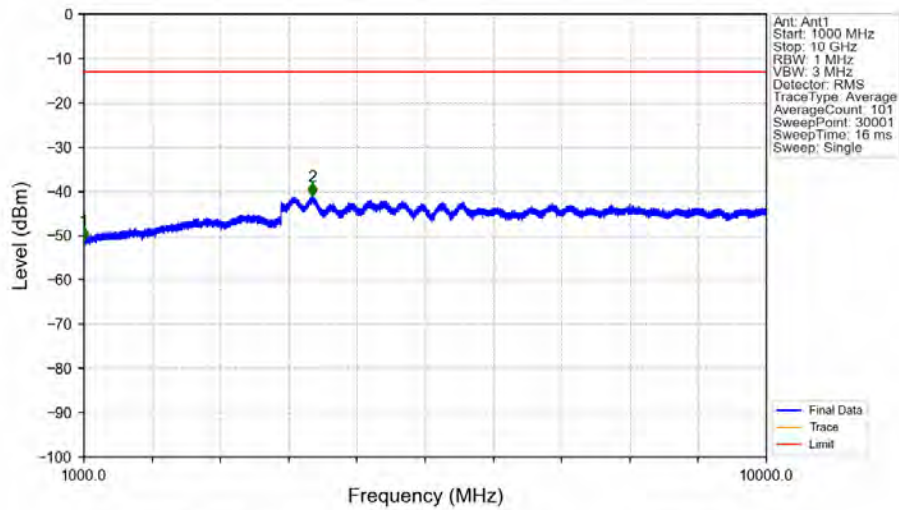


Band14_763MHz_AWGN_SISO_Ant1_NTNV



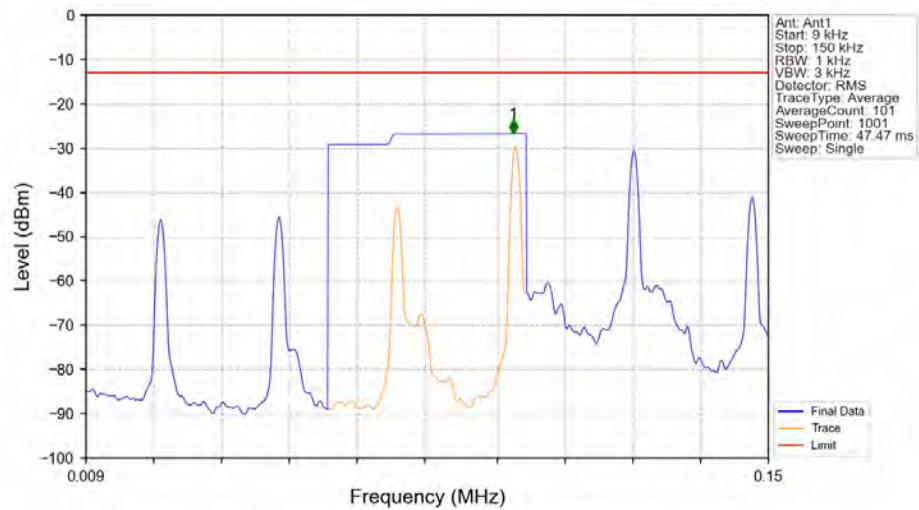
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	757.9	0.1	/	1	754.590	-58.48	-13	Pass
757.9	771.3	0.1	/	/	/	/	/	/
771.3	775	0.1	/	2	772.406	-59.36	-46	Pass
775	799	0.1	/	3	788.475	-58.87	-13	Pass
799	805	0.1	/	4	802.864	-59.13	-46	Pass
805	1000	0.1	/	5	880.140	-58.44	-13	Pass

Band14_763MHz_AWGN_SISO_Ant1_NTNV

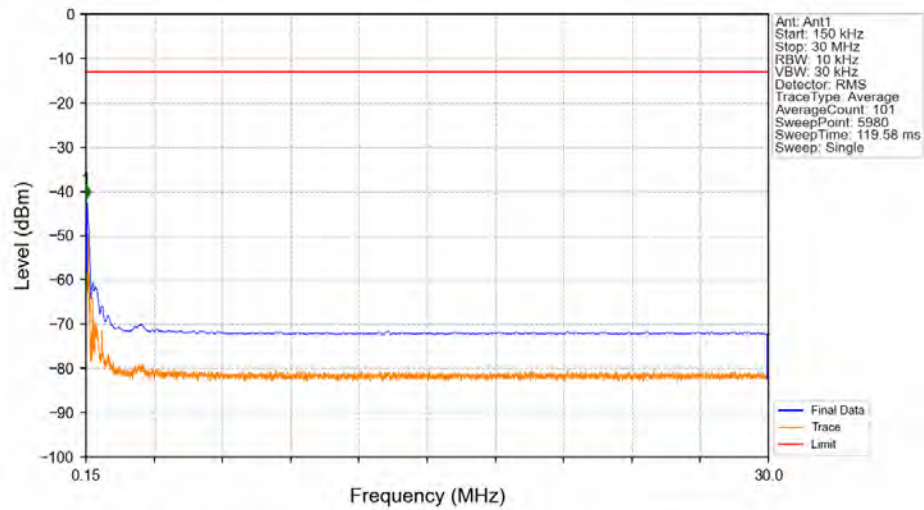


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-51.07	-13	Pass
1000	10000	1	/	2	4007.500	-41.12	-13	Pass

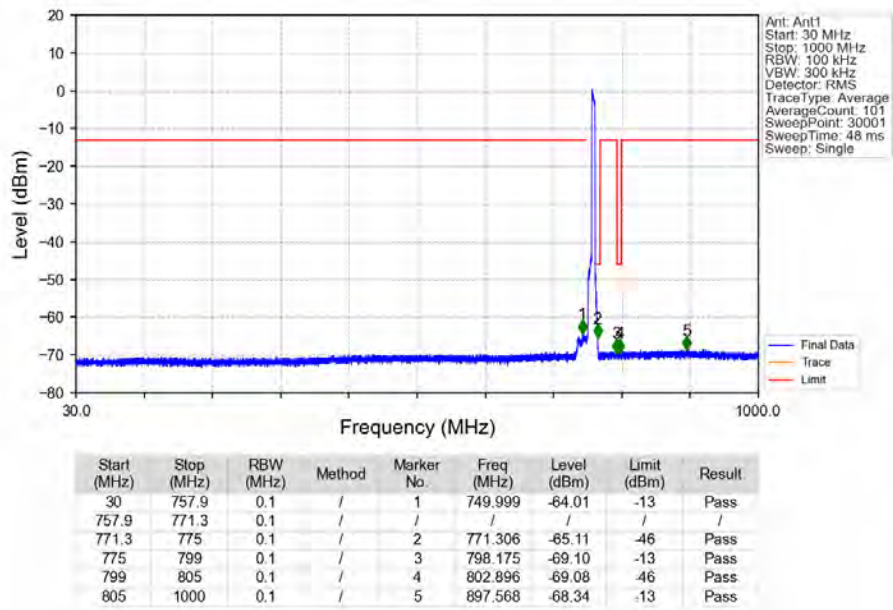
Band14_765.5MHz_AWGN_SISO_Ant1_NTNV



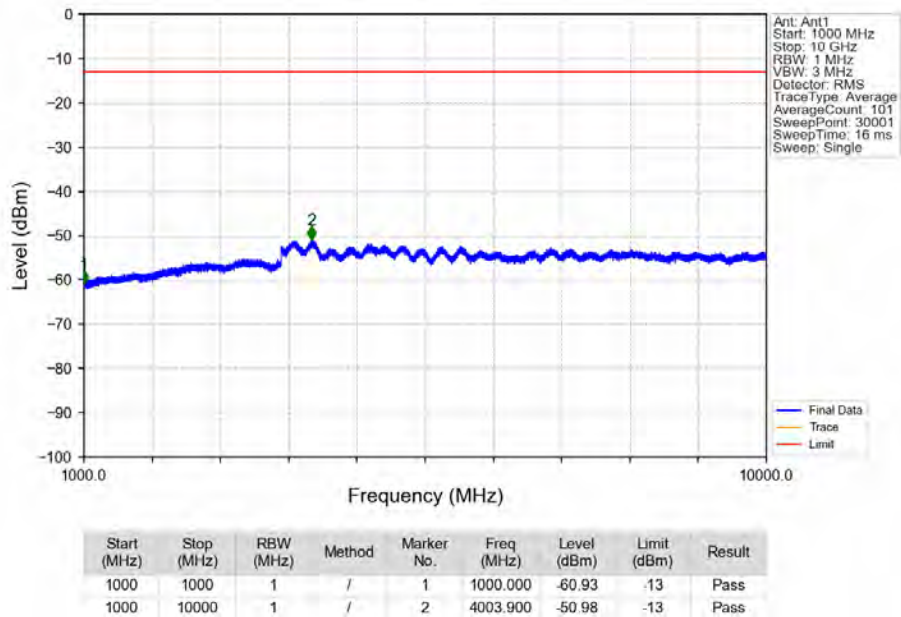
Band14_765.5MHz_AWGN_SISO_Ant1_NTNV



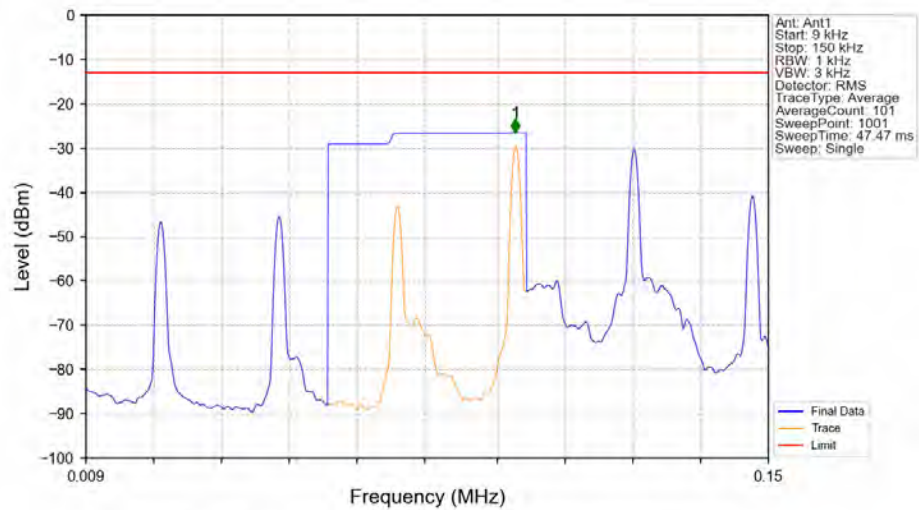
Band14_765.5MHz_AWGN_SISO_Ant1_NTNV



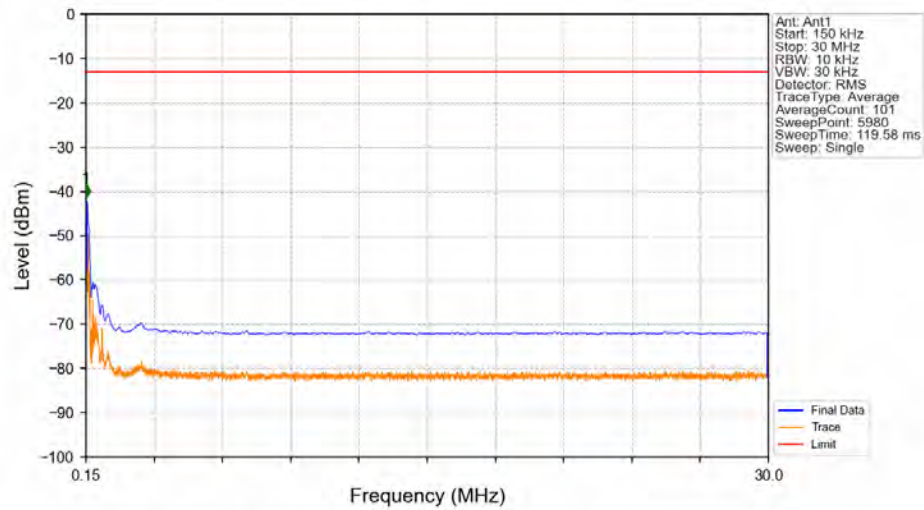
Band14_765.5MHz_AWGN_SISO_Ant1_NTNV



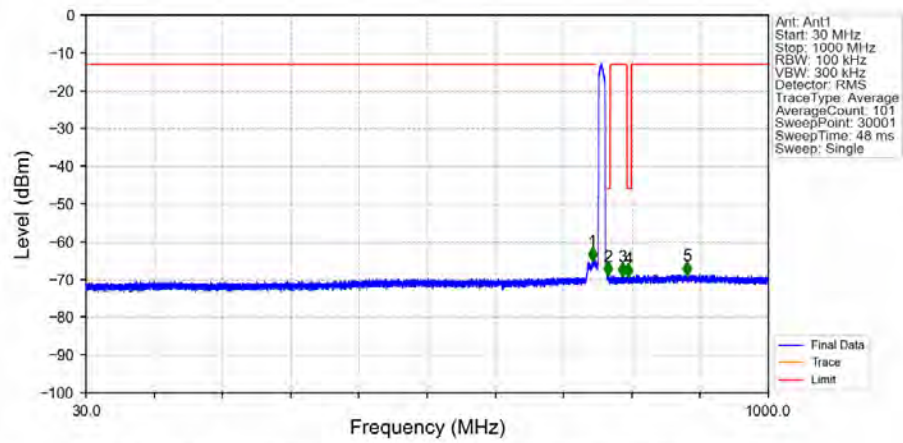
Band14_808MHz_Broad100MHz_SISO_Ant1_NTNV



Band14_808MHz_Broad100MHz_SISO_Ant1_NTNV

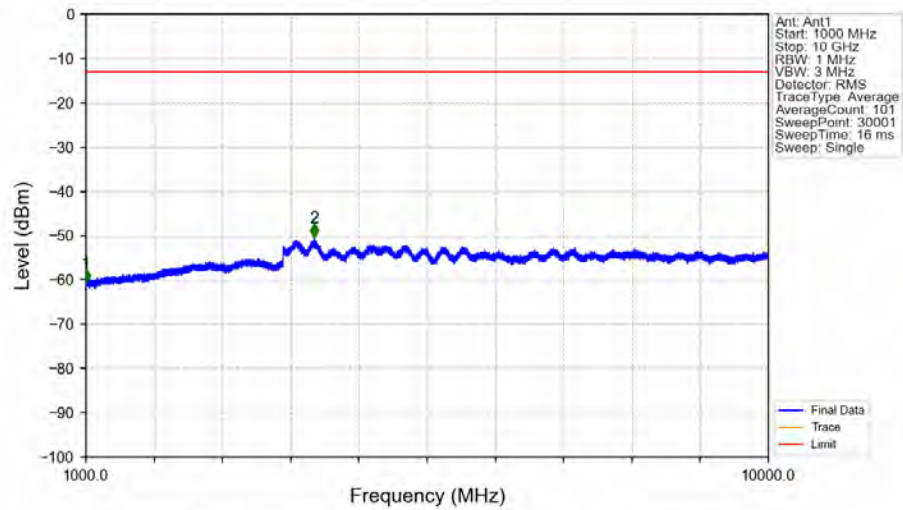


Band14_808MHz_Broad100MHz_SISO_Ant1_NTNV



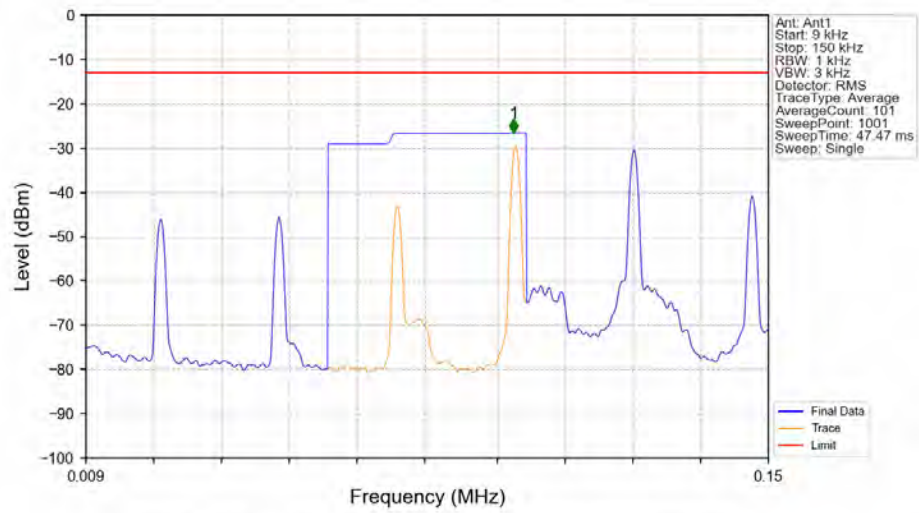
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	757.9	0.1	/	1	749.999	-64.78	-13	Pass
757.9	771.3	0.1	/	/	/	/	/	/
771.3	775	0.1	/	2	771.759	-68.64	-46	Pass
775	799	0.1	/	3	792.614	-68.83	-13	Pass
799	805	0.1	/	4	801.021	-69.08	-46	Pass
805	1000	0.1	/	5	884.150	-68.57	-13	Pass

Band14_808MHz_Broad100MHz_SISO_Ant1_NTNV

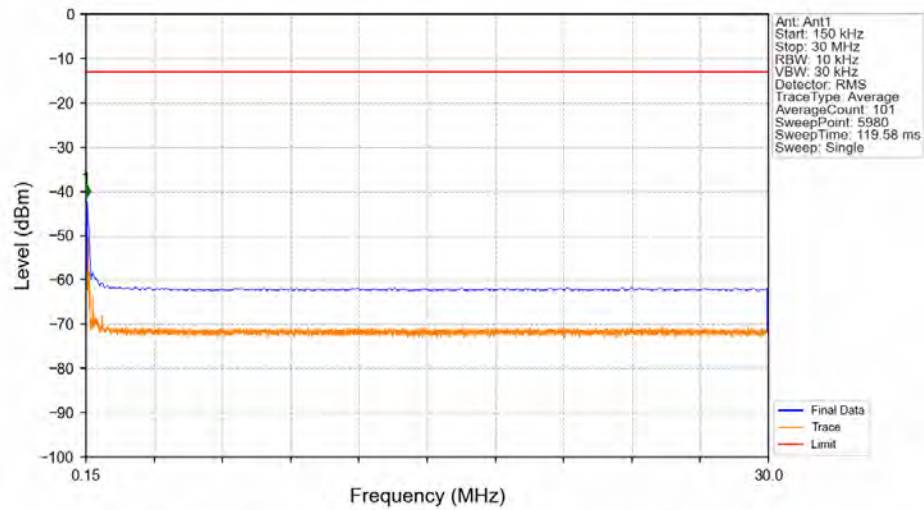


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-60.53	-13	Pass
1000	10000	1	/	2	4010.200	-50.41	-13	Pass

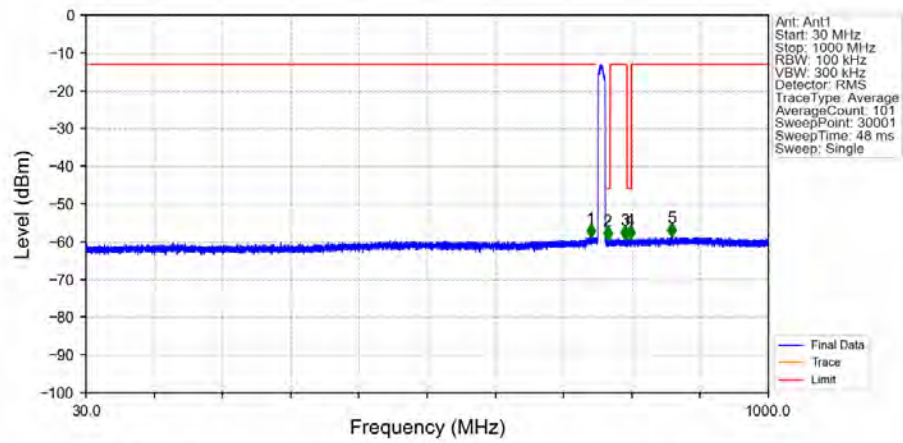
Band14_763MHz_Broad100MHz_SISO_Ant1_NTNV



Band14_763MHz_Broad100MHz_SISO_Ant1_NTNV

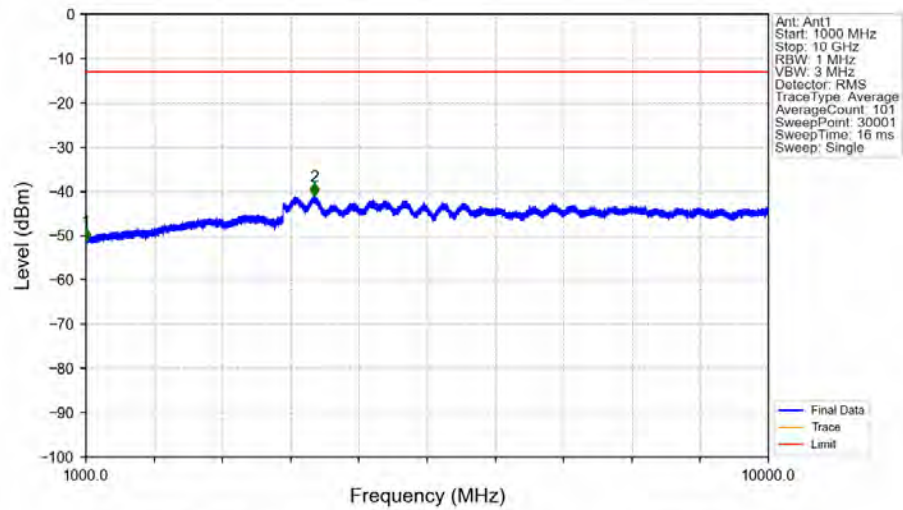


Band14_763MHz_Broad100MHz_SISO_Ant1_NTNV



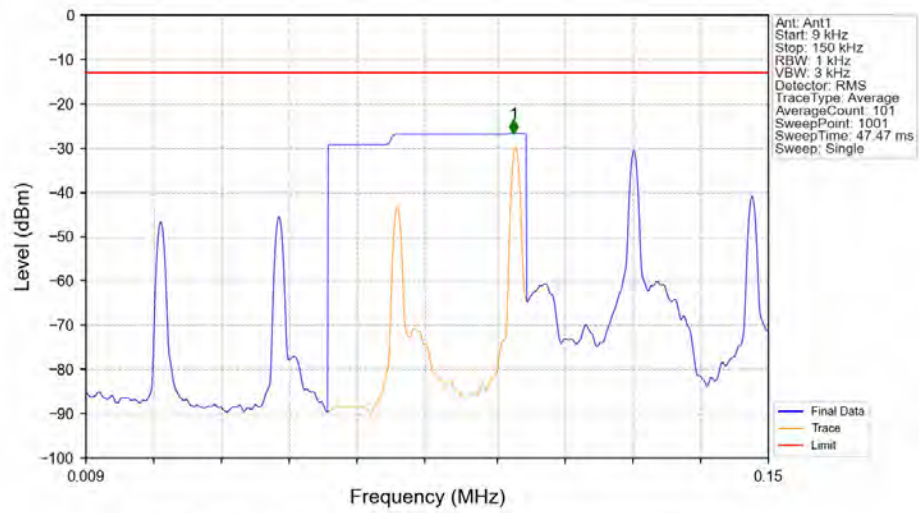
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	757.9	0.1	/	1	747.283	-58.71	-13	Pass
757.9	771.3	0.1	/	/	/	/	/	/
771.3	775	0.1	/	2	771.339	-59.29	-46	Pass
775	799	0.1	/	3	796.203	-59.14	-13	Pass
799	805	0.1	/	4	803.931	-59.08	-46	Pass
805	1000	0.1	/	5	862.292	-58.40	-13	Pass

Band14_763MHz_Broad100MHz_SISO_Ant1_NTNV

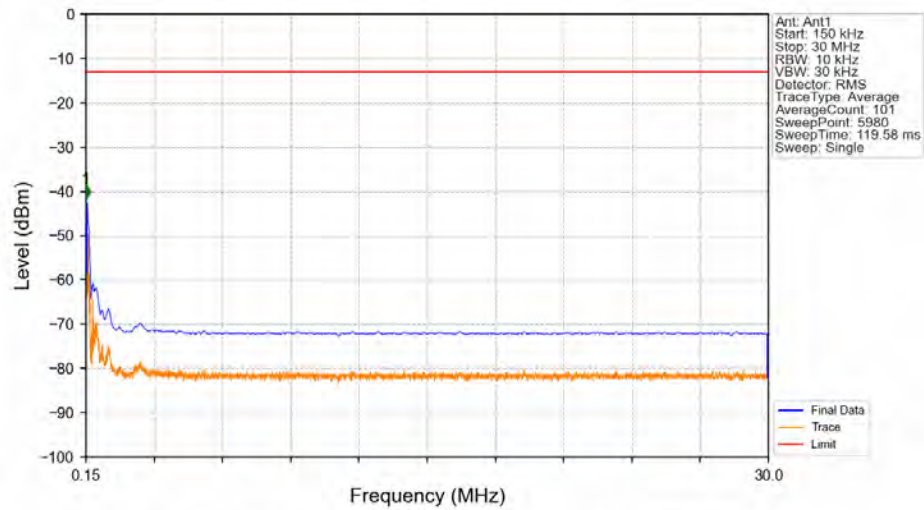


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-51.34	-13	Pass
1000	10000	1	/	2	4011.100	-41.05	-13	Pass

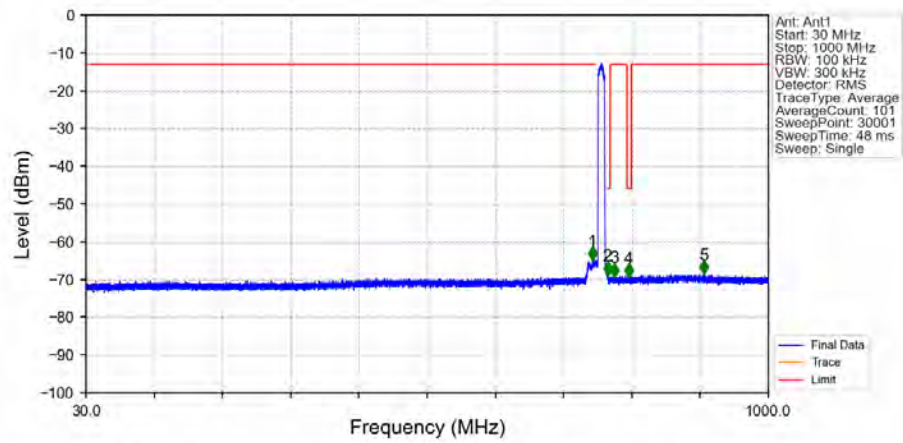
Band14_718MHz_Broad100MHz_SISO_Ant1_NTNV



Band14_718MHz_Broad100MHz_SISO_Ant1_NTNV

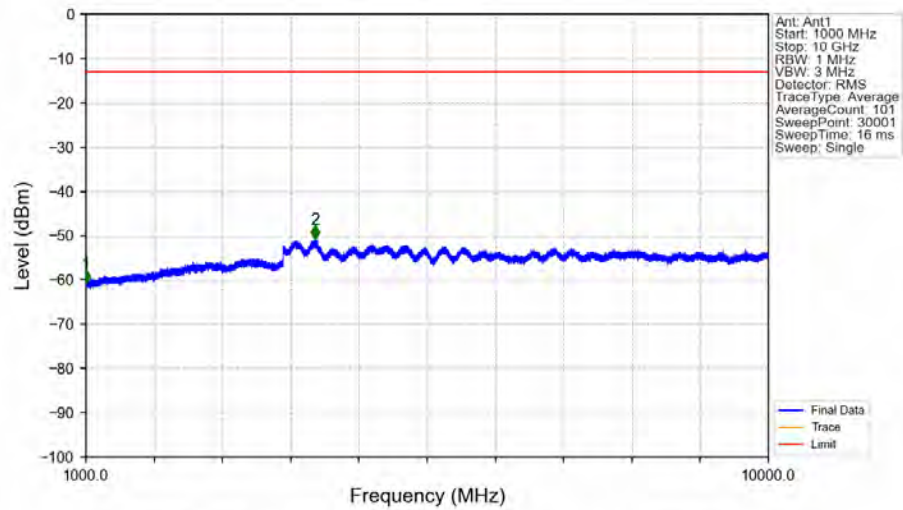


Band14_718MHz_Broad100MHz_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	757.9	0.1	/	1	749.966	-64.65	-13	Pass
757.9	771.3	0.1	/	/	/	/	/	/
771.3	775	0.1	/	2	771.436	-68.57	-46	Pass
775	799	0.1	/	3	780.845	-69.00	-13	Pass
799	805	0.1	/	4	801.150	-69.06	-46	Pass
805	1000	0.1	/	5	907.979	-68.34	-13	Pass

Band14_718MHz_Broad100MHz_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-60.86	-13	Pass
1000	10000	1	/	2	4025.500	-50.83	-13	Pass

7. Frequency stability measurements

7.1 Test Result

7.1.1 Band14_Ant1

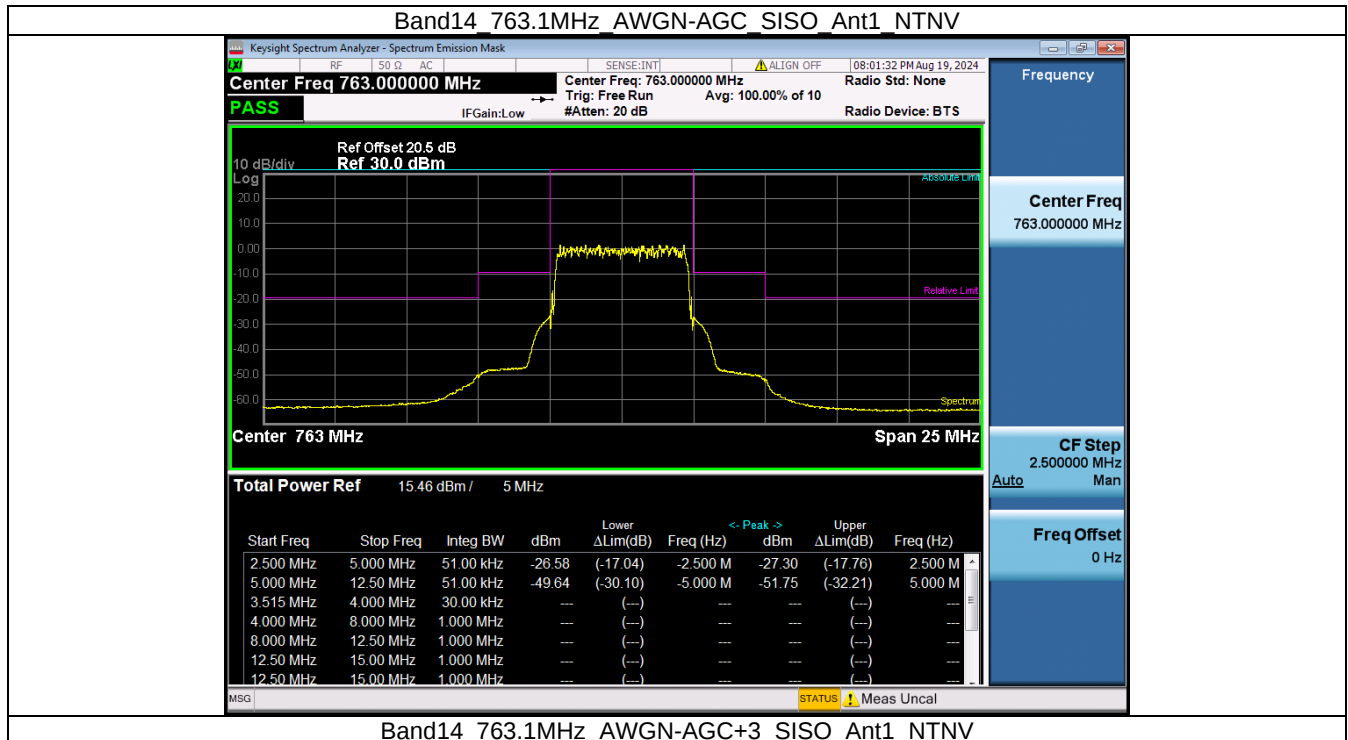
Band: 14 / NTNV							
Signal			Temp (°C)	Voltage (VAC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict
Type	Level (dBm)	Frequency (MHz)					
CW	-1.2	758	20	102	758.00	0.00	Pass
				120	758.00	0.00	Pass
				138	758.00	0.00	Pass
			-20	120	758.00	0.00	Pass
			-10	120	758.00	0.00	Pass
			0	120	758.00	0.00	Pass
			10	120	758.00	0.00	Pass
			30	120	758.00	0.00	Pass
			40	120	758.00	0.00	Pass
		763	20	102	763.00	0.00	Pass
				120	763.00	0.00	Pass
				138	763.00	0.00	Pass
			-20	120	763.00	0.00	Pass
			-10	120	763.00	0.00	Pass
			0	120	763.00	0.00	Pass
			10	120	763.00	0.00	Pass
			30	120	763.00	0.00	Pass
			40	120	763.00	0.00	Pass
		768	20	102	768.00	0.00	Pass
				120	768.00	0.00	Pass
				138	768.00	0.00	Pass
			-20	120	768.00	0.00	Pass
			-10	120	768.00	0.00	Pass
			0	120	768.00	0.00	Pass
			10	120	768.00	0.00	Pass
			30	120	768.00	0.00	Pass
			40	120	768.00	0.00	Pass
			50	120	768.00	0.00	Pass

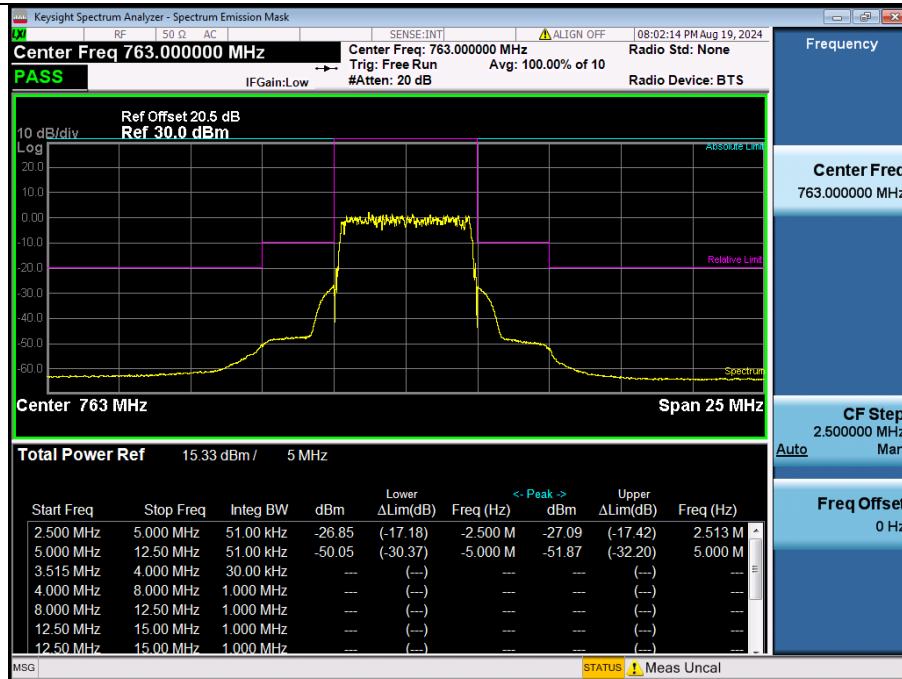
8. Mask

8.1 Band14_Ant1

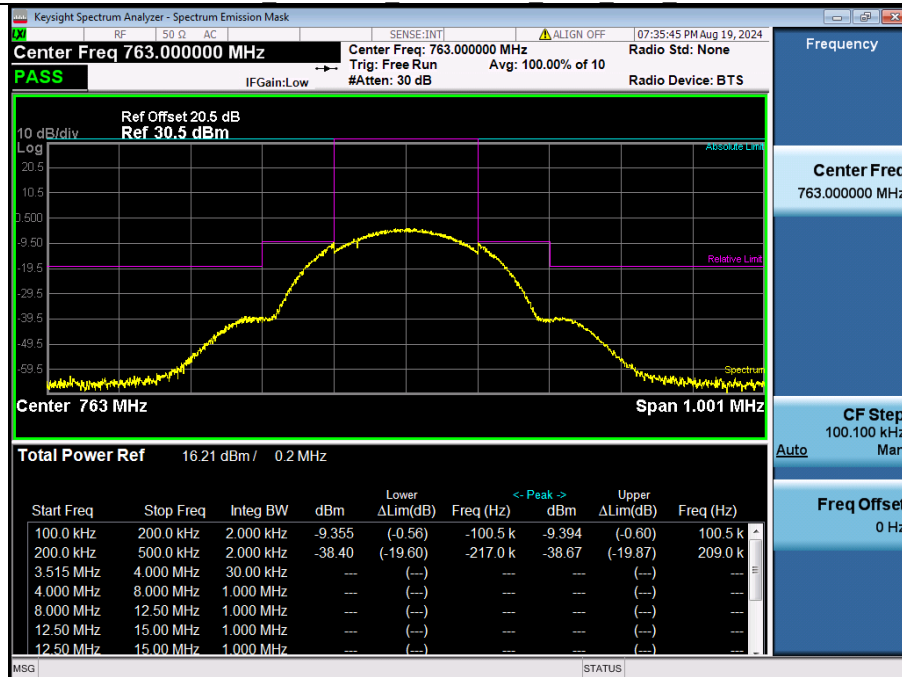
8.1.1 Test Result

For LTE Band 14

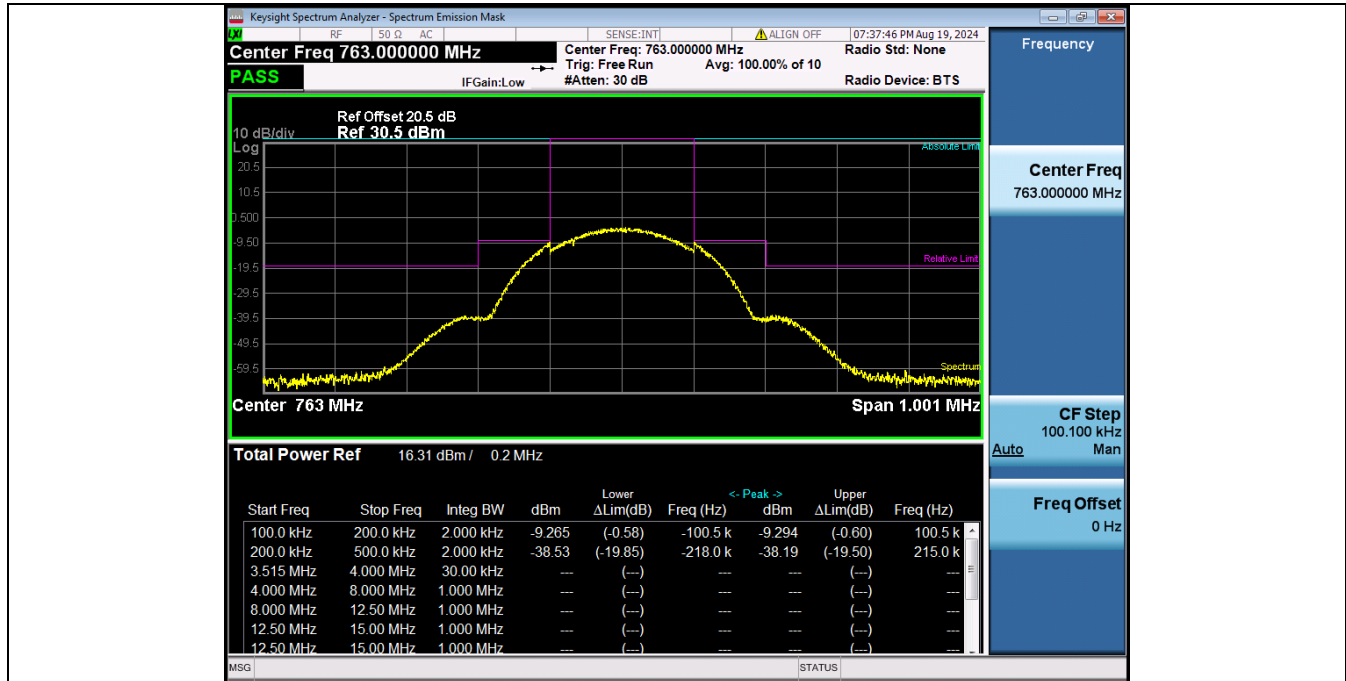




Band14 763.1MHz GMSK-AGC SISO Ant1 NTN

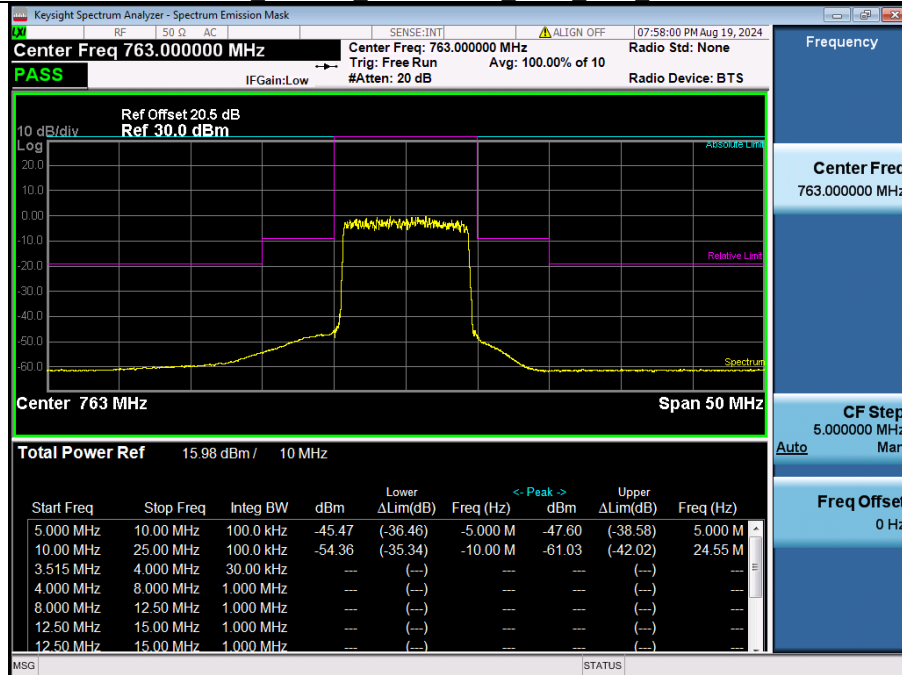


Band14 763.1MHz GMSK-AGC+3 SISO Ant1 NTN

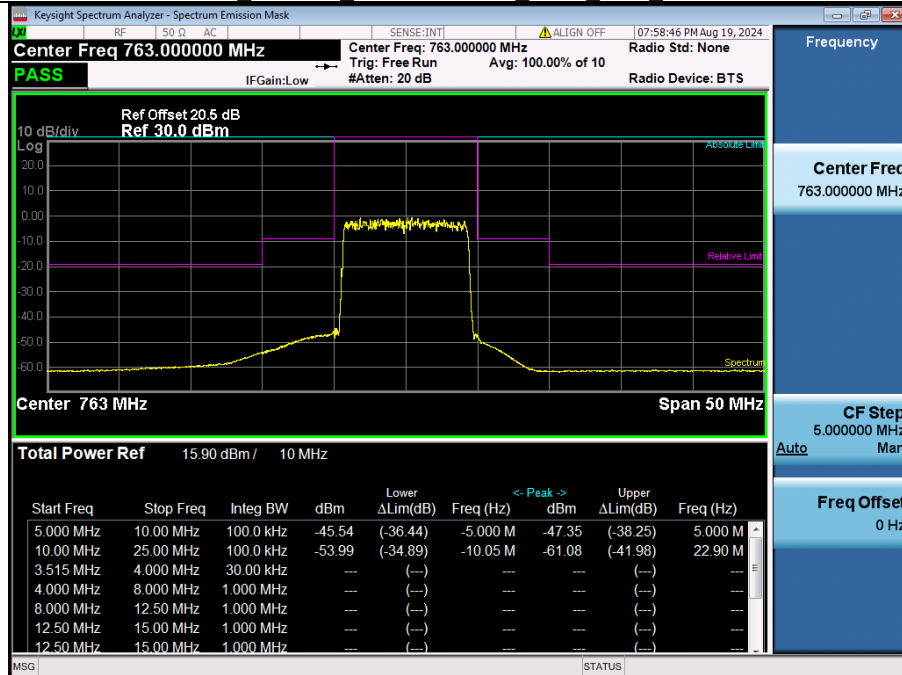


For 5GNR N14

N14 763MHz AWGN-AGC SISO Ant1 NTN



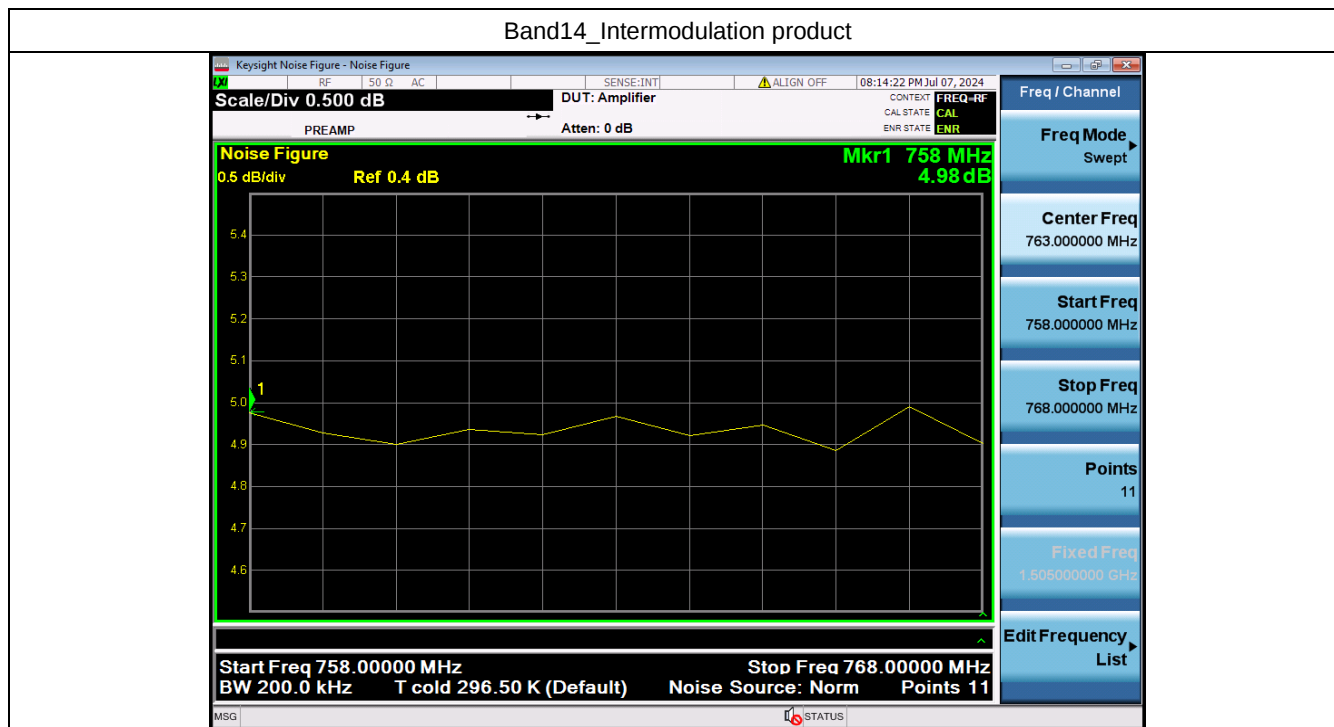
N14 763MHz AWGN-AGC+3 SISO Ant1 NTN



9.Noise/emission at Antenna Terminal

9.1 Band14_Ant1

9.1.1 Test Result





10. Radiated Spurious Emissions

10.1 Band14_Ant1

10.1.1 Test Result

For LTE Band 14

AWGN_Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
97.76	Horizontal	-63.98	-13	-50.98	pass
245.81	Horizontal	-60.04	-13	-47.04	pass
702.96	Horizontal	-63.71	-13	-50.71	pass
1314.08	Horizontal	-53.46	-13	-40.46	pass
4518.19	Horizontal	-40.70	-13	-27.70	pass
8782.84	Horizontal	-32.51	-13	-19.51	pass
113.82	Vertical	-62.78	-13	-49.78	pass
234.45	Vertical	-59.52	-13	-46.52	pass
665.17	Vertical	-62.18	-13	-49.18	pass
1098.31	Vertical	-55.83	-13	-42.83	pass
5358.57	Vertical	-46.52	-13	-33.52	pass
9032.43	Vertical	-39.10	-13	-26.10	pass
AWGN_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
86.60	Horizontal	-66.77	-13	-53.77	pass
272.07	Horizontal	-62.82	-13	-49.82	pass
713.02	Horizontal	-60.21	-13	-47.21	pass
1300.86	Horizontal	-51.69	-13	-38.69	pass
4435.51	Horizontal	-40.93	-13	-27.93	pass
8812.60	Horizontal	-32.14	-13	-19.14	pass
123.19	Vertical	-62.26	-13	-49.26	pass
215.73	Vertical	-59.23	-13	-46.23	pass
659.37	Vertical	-63.95	-13	-50.95	pass
1100.73	Vertical	-55.17	-13	-42.17	pass
5341.97	Vertical	-48.58	-13	-35.58	pass
8956.21	Vertical	-37.37	-13	-24.37	pass

AWGN_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
131.61	Horizontal	-62.87	-13	-49.87	pass
236.10	Horizontal	-60.42	-13	-47.42	pass
699.30	Horizontal	-62.28	-13	-49.28	pass
1282.26	Horizontal	-55.86	-13	-42.86	pass
4528.39	Horizontal	-45.10	-13	-32.10	pass
8768.86	Horizontal	-34.94	-13	-21.94	pass
122.88	Vertical	-64.77	-13	-51.77	pass
236.49	Vertical	-60.70	-13	-47.70	pass
658.03	Vertical	-61.04	-13	-48.04	pass
1026.11	Vertical	-60.33	-13	-47.33	pass
5340.31	Vertical	-49.98	-13	-36.98	pass
8948.37	Vertical	-43.07	-13	-30.07	pass
GMSK_Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
108.31	Horizontal	-66.58	-13	-53.58	pass
243.70	Horizontal	-59.19	-13	-46.19	pass
696.29	Horizontal	-63.77	-13	-50.77	pass
1285.00	Horizontal	-57.16	-13	-44.16	pass
4457.77	Horizontal	-46.36	-13	-33.36	pass
8798.44	Horizontal	-31.71	-13	-18.71	pass
115.08	Vertical	-63.27	-13	-50.27	pass
245.25	Vertical	-61.92	-13	-48.92	pass
651.83	Vertical	-64.01	-13	-51.01	pass
1089.51	Vertical	-55.43	-13	-42.43	pass
5307.17	Vertical	-42.85	-13	-29.85	pass
8940.47	Vertical	-39.30	-13	-26.30	pass

GMSK_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
109.76	Horizontal	-65.38	-13	-52.38	pass
255.14	Horizontal	-62.50	-13	-49.50	pass
701.13	Horizontal	-62.47	-13	-49.47	pass
1287.62	Horizontal	-57.42	-13	-44.42	pass
4530.21	Horizontal	-45.70	-13	-32.70	pass
8834.40	Horizontal	-31.61	-13	-18.61	pass
100.91	Vertical	-63.78	-13	-50.78	pass
220.76	Vertical	-61.38	-13	-48.38	pass
639.34	Vertical	-63.20	-13	-50.20	pass
1122.59	Vertical	-56.87	-13	-43.87	pass
5326.65	Vertical	-41.68	-13	-28.68	pass
9007.43	Vertical	-40.27	-13	-27.27	pass
GMSK_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
116.79	Horizontal	-66.79	-13	-53.79	pass
271.93	Horizontal	-59.57	-13	-46.57	pass
688.05	Horizontal	-63.11	-13	-50.11	pass
1279.40	Horizontal	-54.59	-13	-41.59	pass
4497.03	Horizontal	-42.83	-13	-29.83	pass
8796.08	Horizontal	-34.21	-13	-21.21	pass
86.71	Vertical	-62.73	-13	-49.73	pass
236.14	Vertical	-59.50	-13	-46.50	pass
631.12	Vertical	-59.98	-13	-46.98	pass
1078.45	Vertical	-53.57	-13	-40.57	pass
5300.01	Vertical	-44.72	-13	-31.72	pass
8970.77	Vertical	-39.90	-13	-26.90	pass



For 5GNR N14

AWGN_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
104.63	Horizontal	-64.07	-13	-51.07	pass
232.64	Horizontal	-60.69	-13	-47.69	pass
694.26	Horizontal	-63.32	-13	-50.32	pass
1292.66	Horizontal	-51.72	-13	-38.72	pass
4460.55	Horizontal	-44.06	-13	-31.06	pass
8817.16	Horizontal	-34.48	-13	-21.48	pass
88.72	Vertical	-65.08	-13	-52.08	pass
223.82	Vertical	-60.20	-13	-47.20	pass
637.23	Vertical	-63.28	-13	-50.28	pass
1060.97	Vertical	-58.03	-13	-45.03	pass
5313.19	Vertical	-40.92	-13	-27.92	pass
8947.87	Vertical	-35.07	-13	-22.07	pass