

1. Out of band rejection

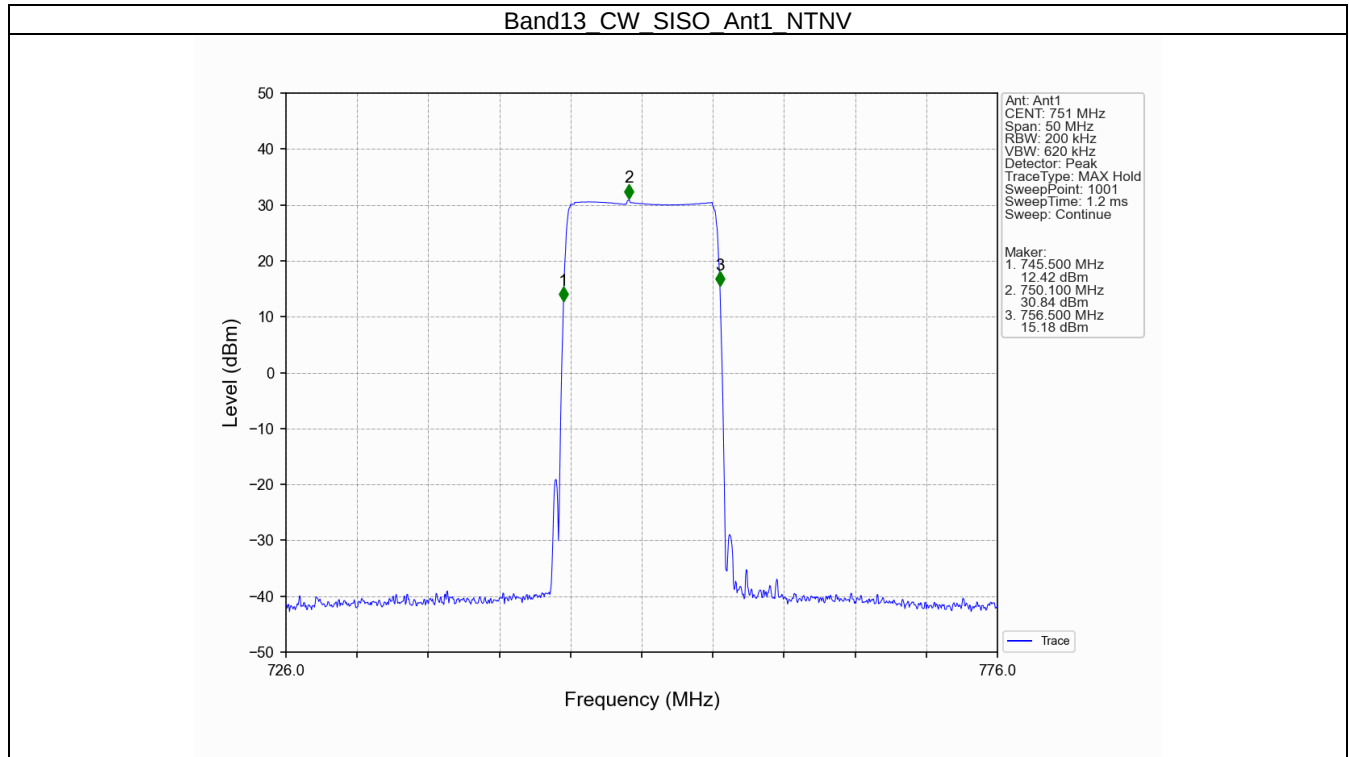
1.1 Test Result

1.1.1 Band13

Band: 13 / NTNV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	726 - 776	SISO	1	750.100	745.500	756.500	Pass

1.2 Test Graph

1.2.1 Band13



2. AGC threshold

2.1 Test Result

2.1.1 Band13

Band: 13 / NTNV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
GMSK 0.2MHz	750.1	SISO	1	-0.30	Pass
AWGN 5MHz	750.1	SISO	1	-0.30	Pass
AWGN 100MHz	750.1	SISO	1	-0.30	Pass

3. Input-versus-output signal comparison

3.1 Test Result

3.1.1 Band13_OBW

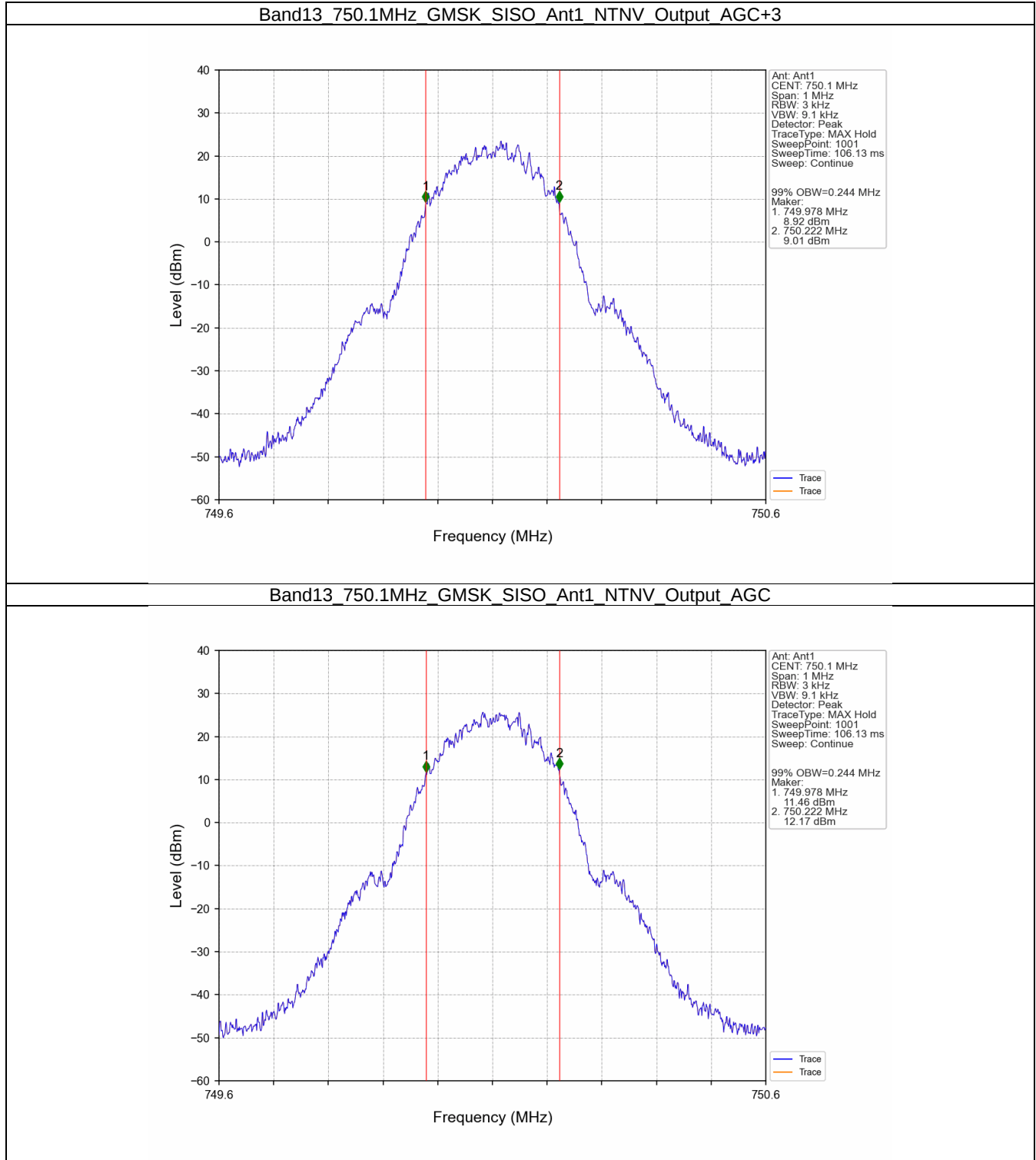
Band: 13 / NTNV							
Signal			TX Type	ANT	99% OBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
GMSK	2.7	750.1	SISO	1	0.244	0.245	Pass
0.2MHz	-0.3	750.1	SISO	1	0.244	0.244	Pass
AWGN	2.7	750.1	SISO	1	4.549	4.545	Pass
5MHz	-0.3	750.1	SISO	1	4.547	4.546	Pass
AWGN	2.7	750.1	SISO	1	11.171	97.379	Pass
100MHz	-0.3	750.1	SISO	1	11.208	97.380	Pass

3.1.2 Band13_EBW

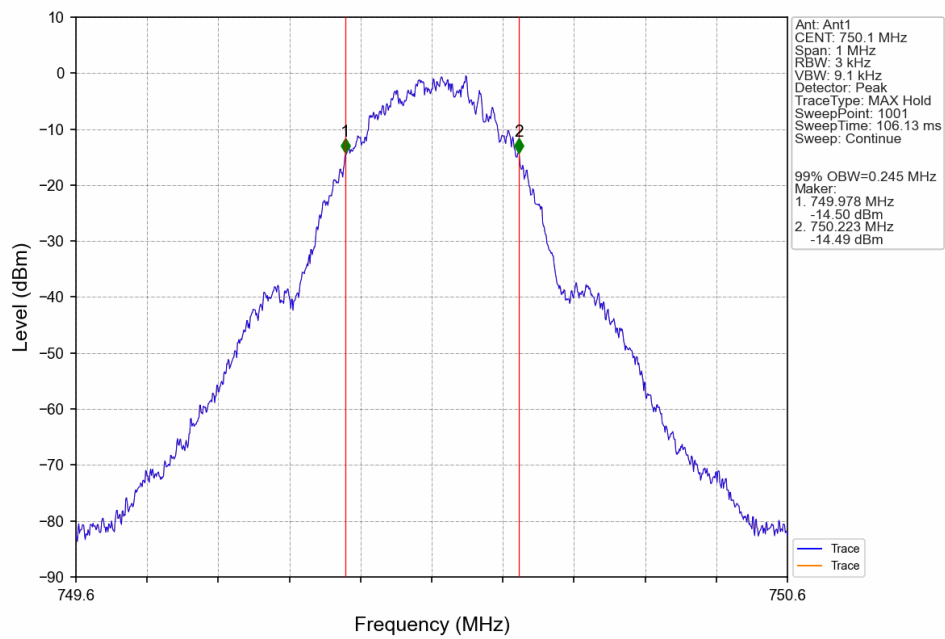
Band: 13 / NTNV							
Signal			TX Type	ANT	26dB EBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
GMSK	2.7	750.1	SISO	1	0.313	0.317	Pass
0.2MHz	-0.3	750.1	SISO	1	0.316	0.313	Pass
AWGN	2.7	750.1	SISO	1	5.149	5.143	Pass
5MHz	-0.3	750.1	SISO	1	5.137	5.148	Pass
AWGN	2.7	750.1	SISO	1	12.862	100.774	Pass
100MHz	-0.3	750.1	SISO	1	12.903	100.697	Pass

3.2 Test Graph

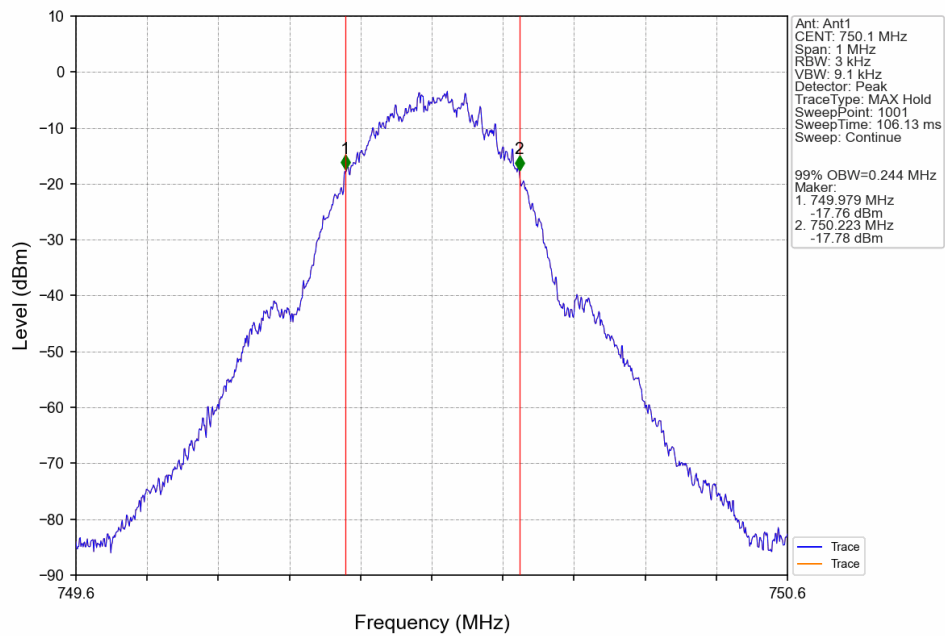
3.2.1 Band13_OBW



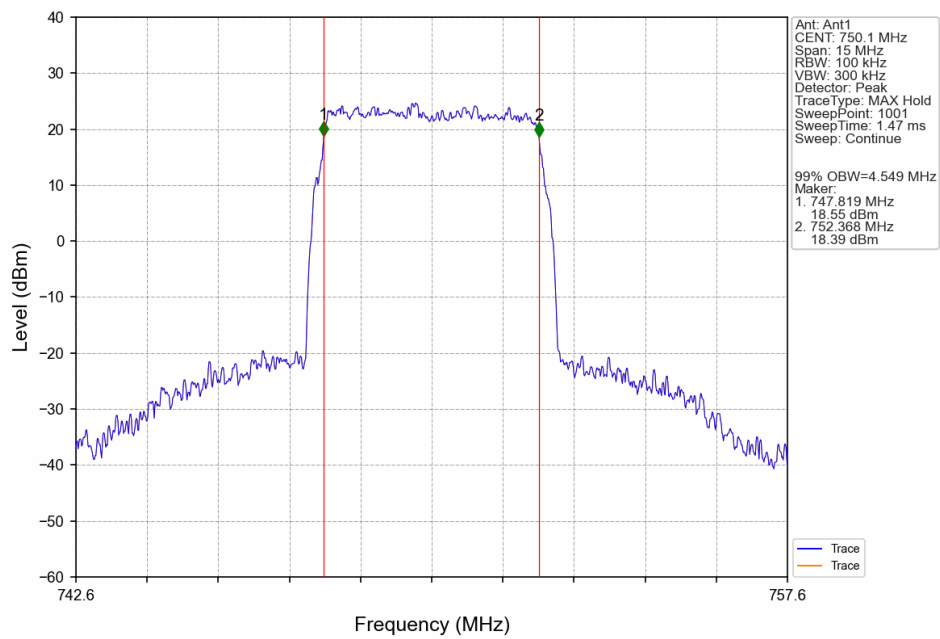
Band13_750.1MHz_GMSK_SISO_Ant1_NTNV_Input_AGC+3



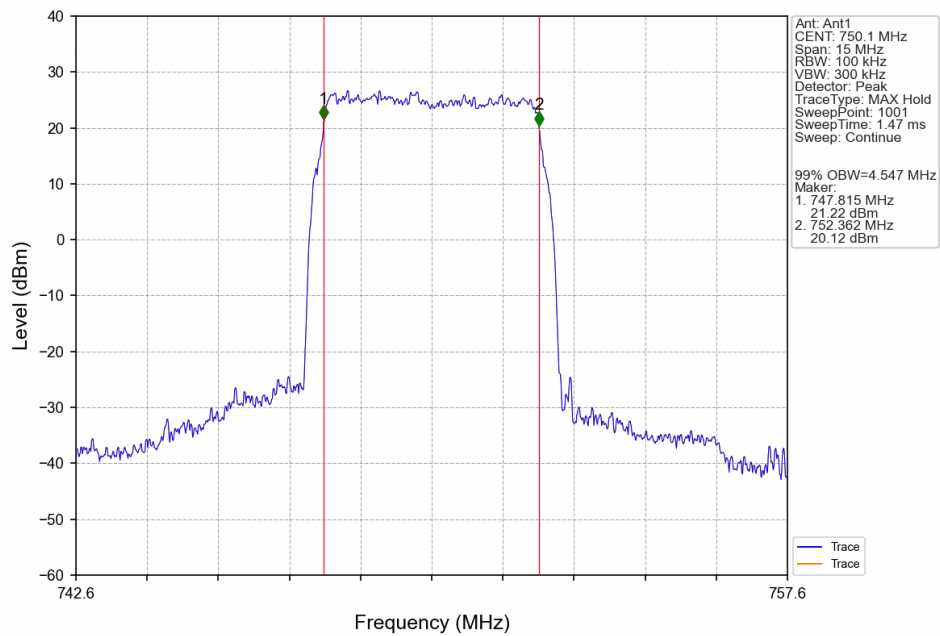
Band13_750.1MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



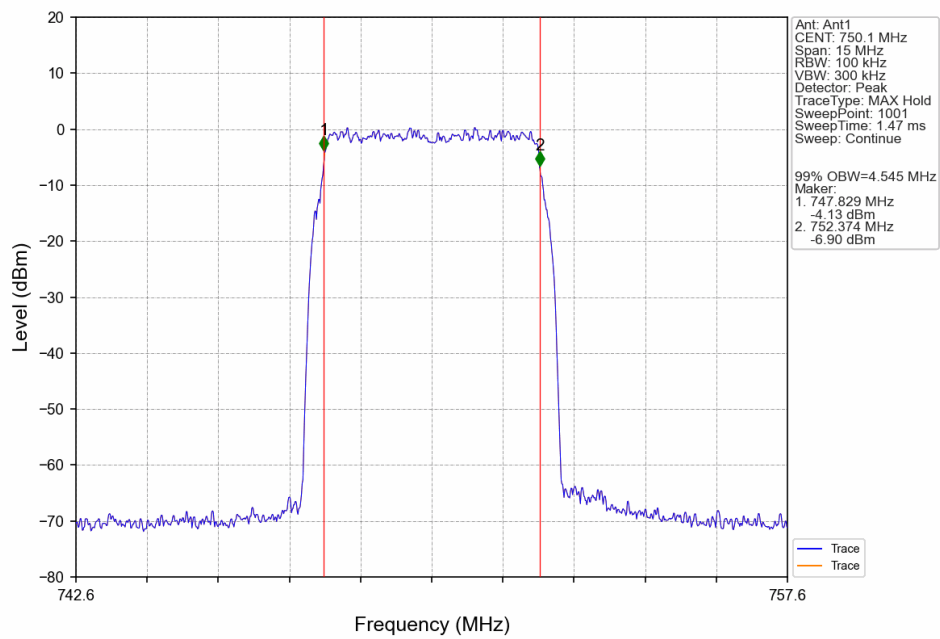
Band13_750.1MHz_AWGN_SISO_Ant1_NTNV_Output_AGC+3



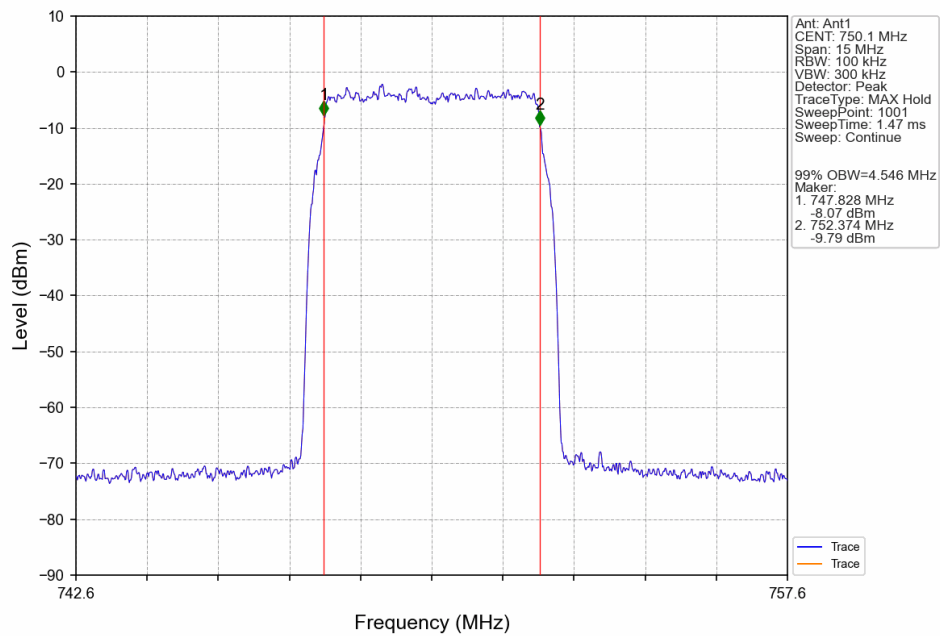
Band13_750.1MHz_AWGN_SISO_Ant1_NTNV_Output_AGC



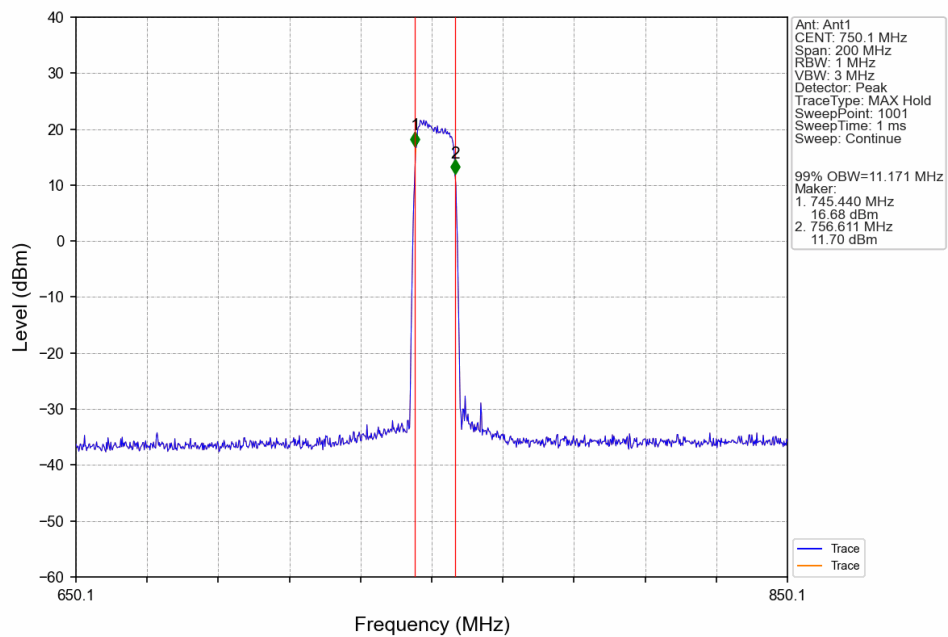
Band13_750.1MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



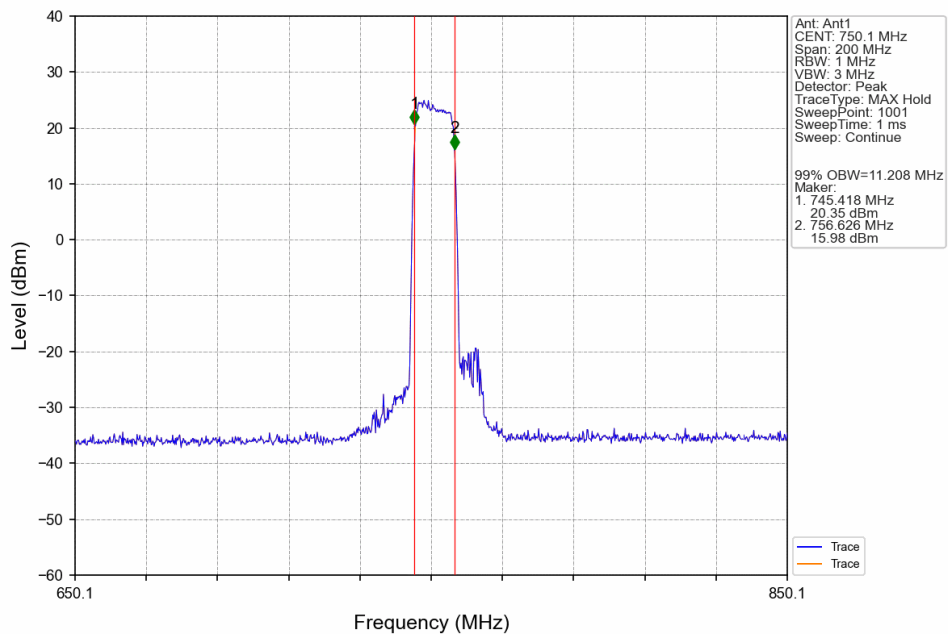
Band13_750.1MHz_AWGN_SISO_Ant1_NTNV_Input_AGC



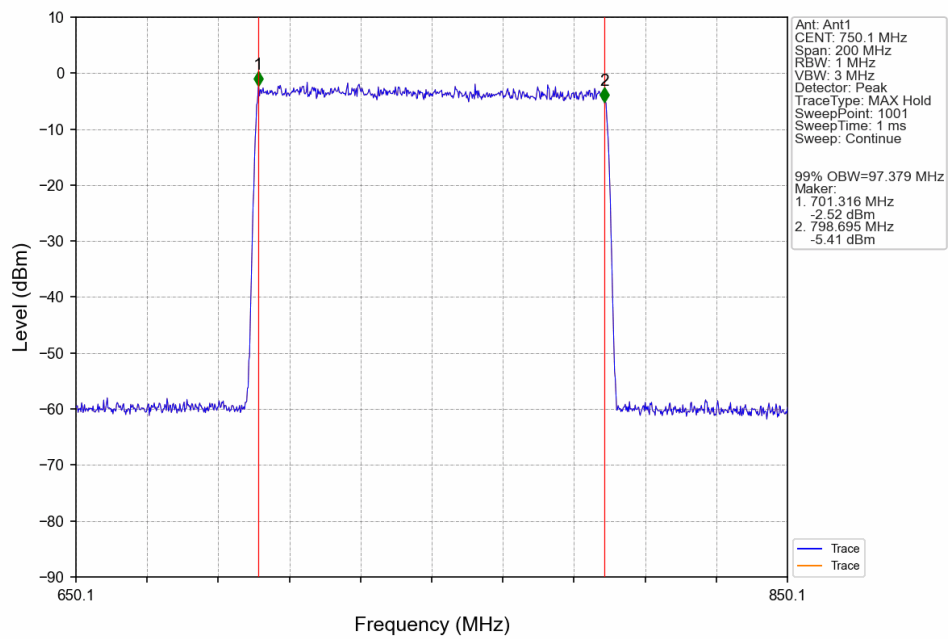
Band13_750.1MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC+3



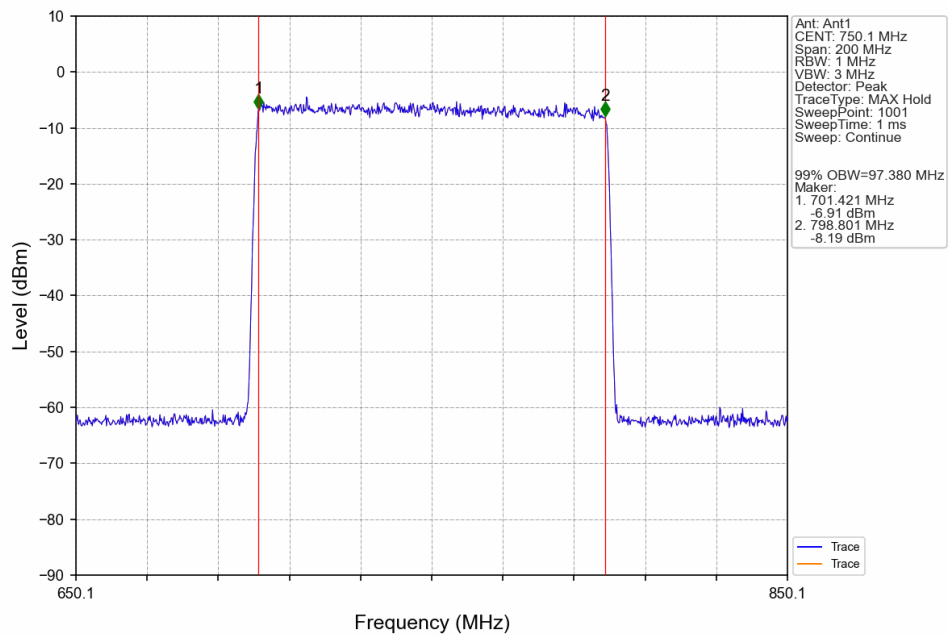
Band13_750.1MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC



Band13_750.1MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC+3

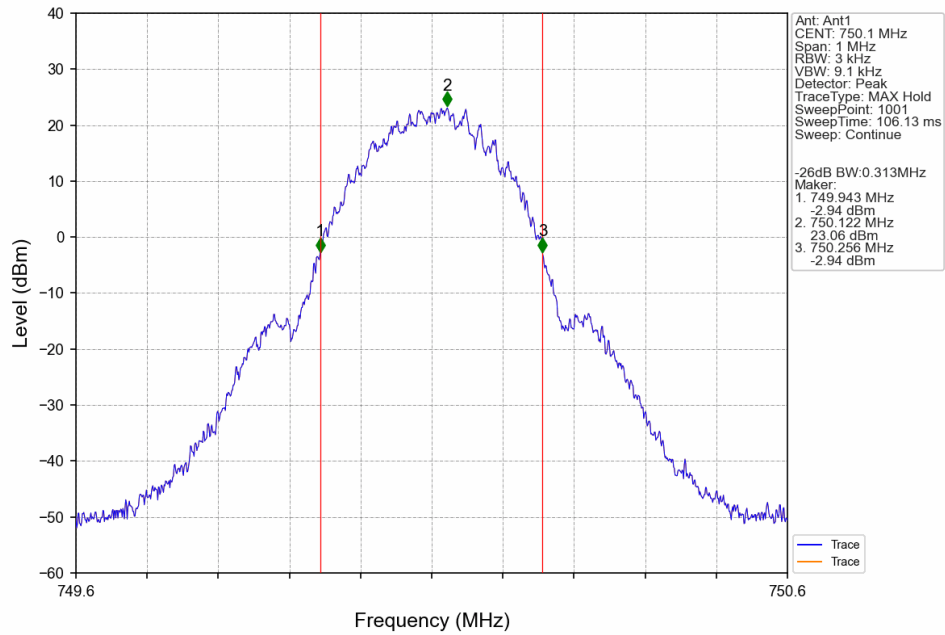


Band13_750.1MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC

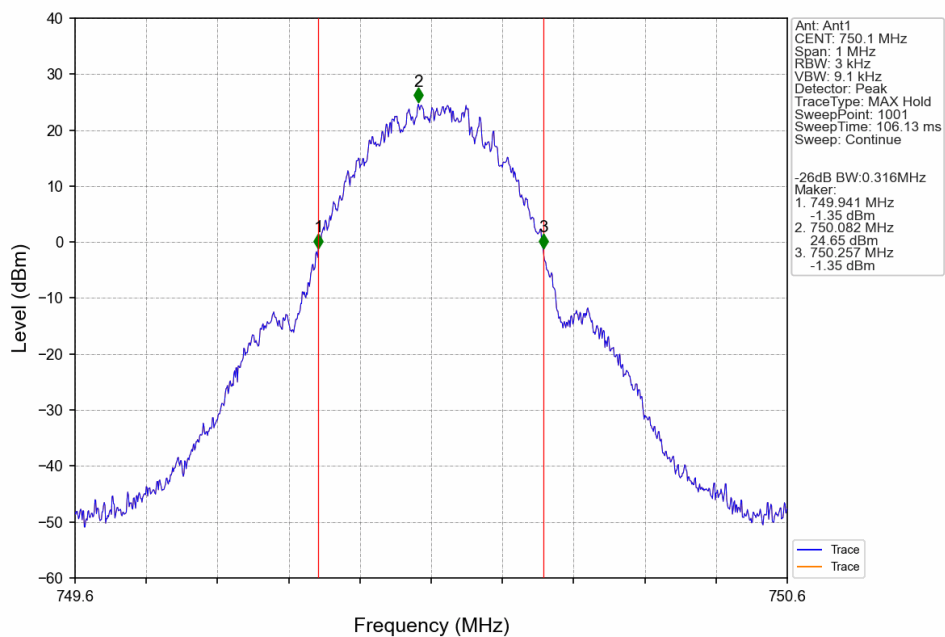


3.2.2 Band13_EBW

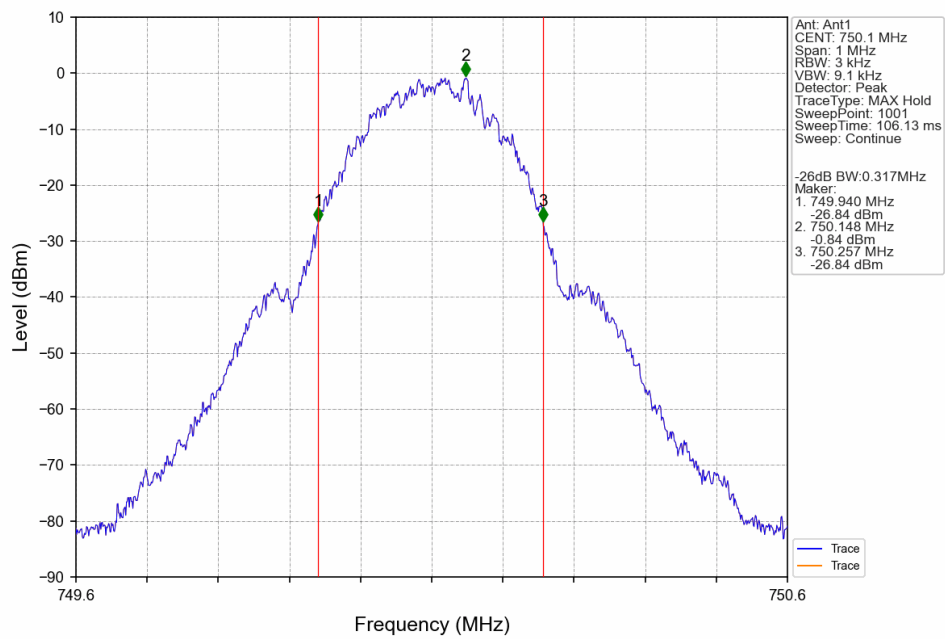
Band13 750.1MHz GMSK SISO Ant1 NTN Output AGC+3



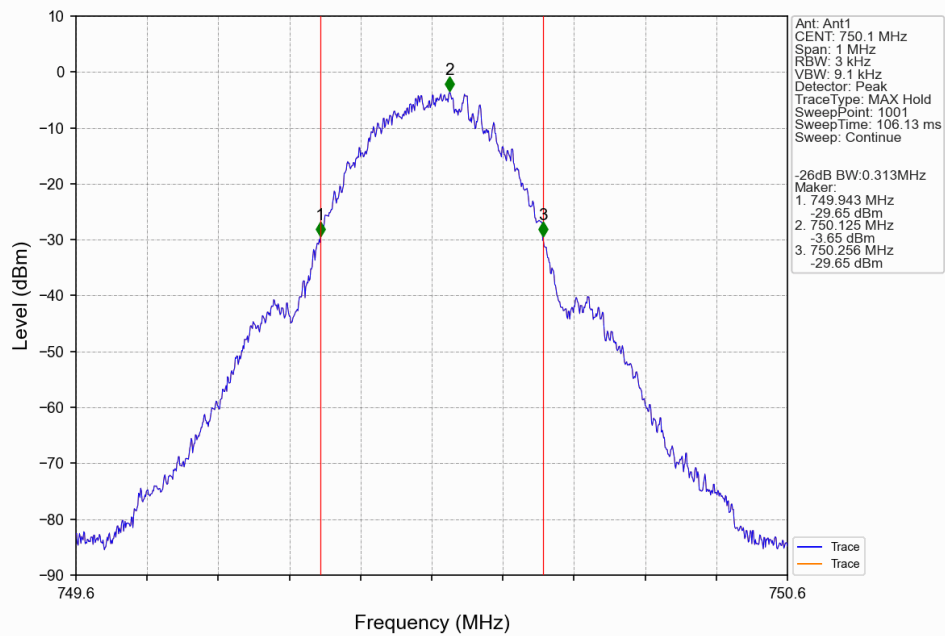
Band13 750.1MHz GMSK SISO Ant1 NTN Output AGC



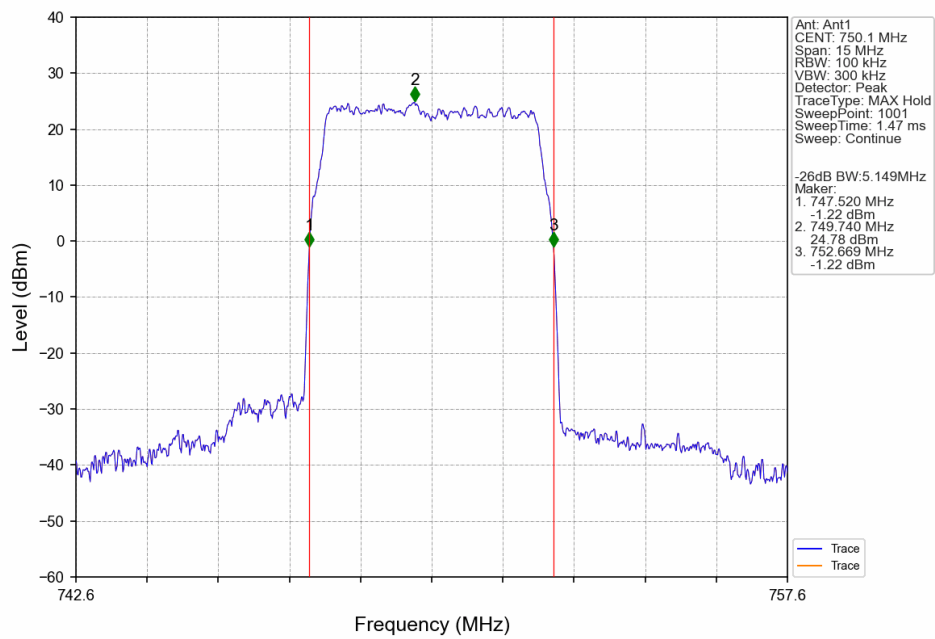
Band13_750.1MHz_GMSK_SISO_Ant1_NTNV_Input_AGC+3



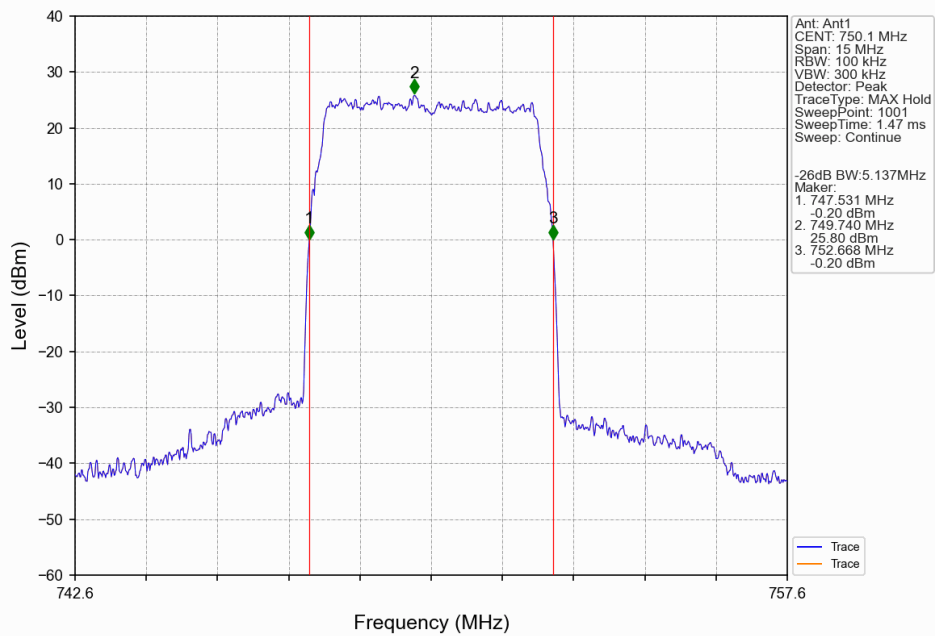
Band13_750.1MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



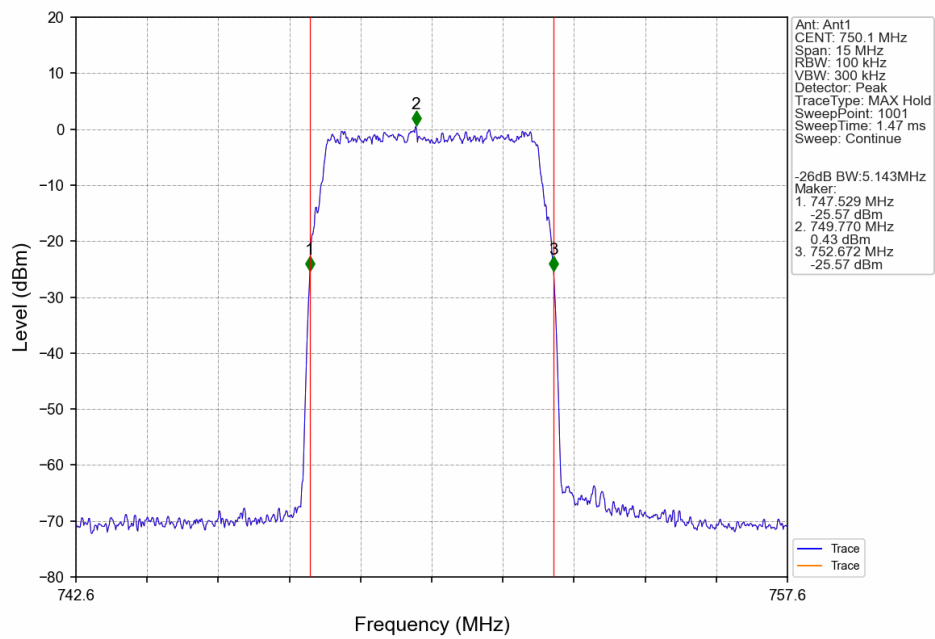
Band13_750.1MHz_AWGN_SISO_Ant1_NTNV_Output_AGC+3



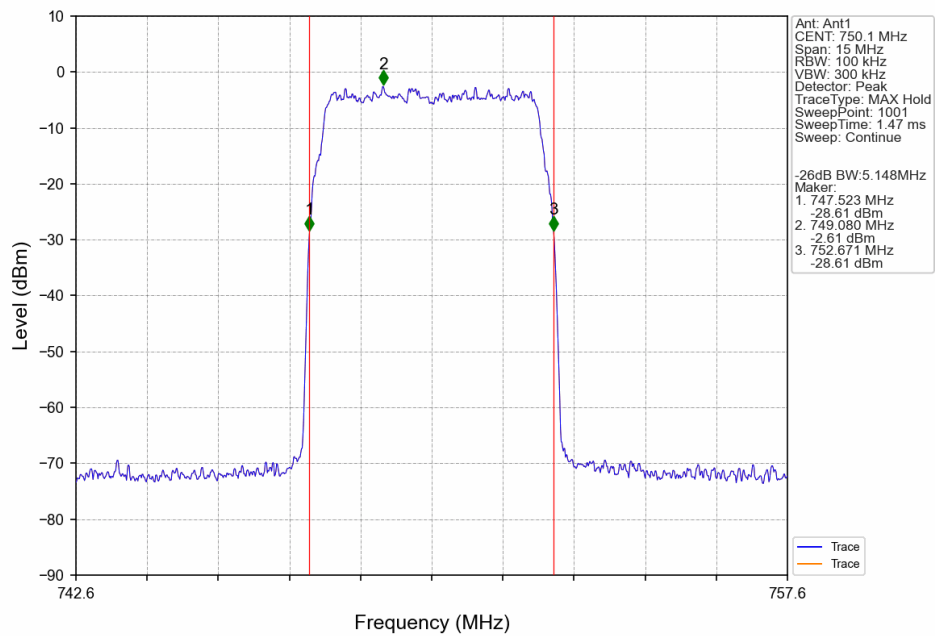
Band13_750.1MHz_AWGN_SISO_Ant1_NTNV_Output_AGC



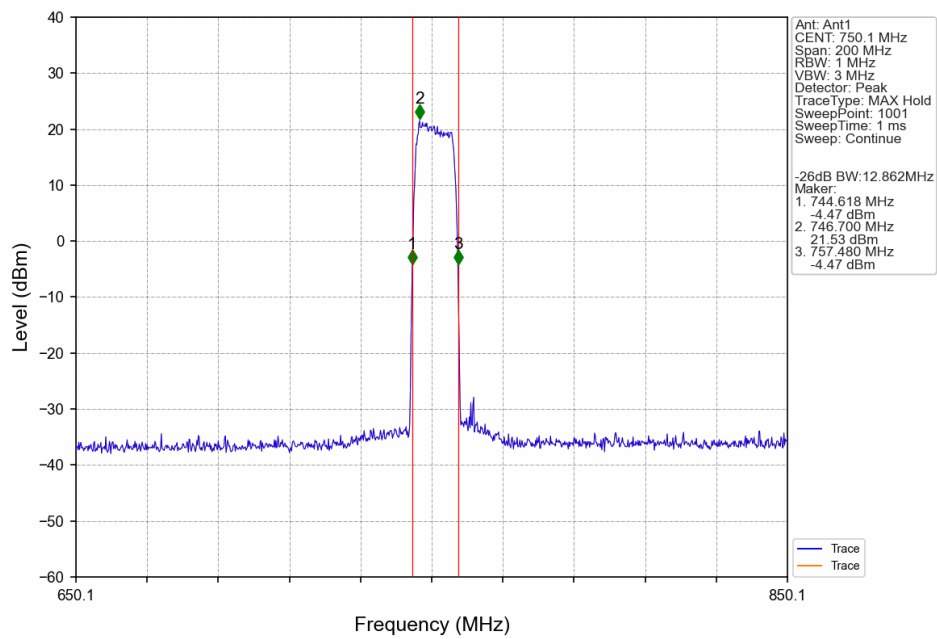
Band13_750.1MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



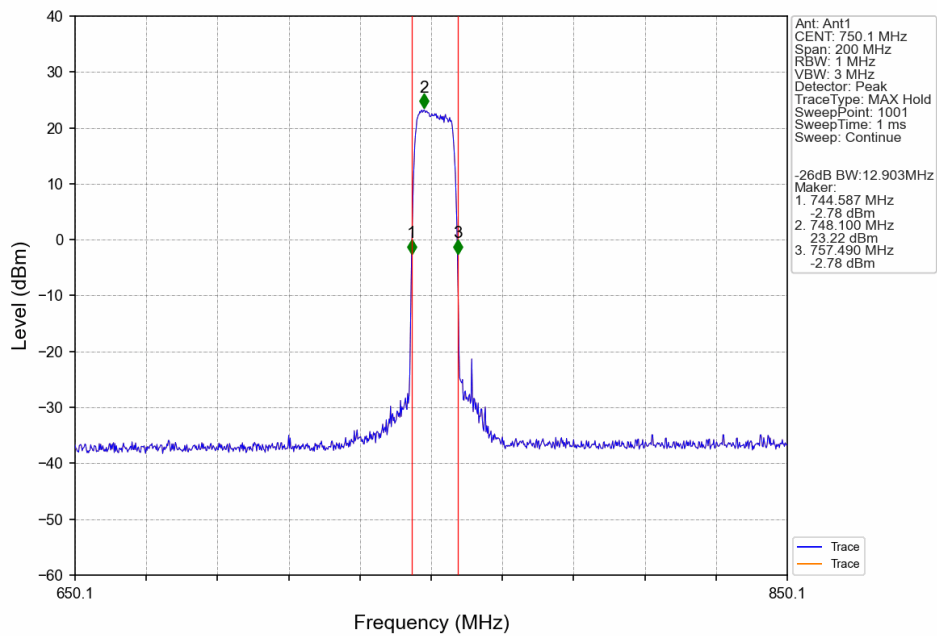
Band13_750.1MHz_AWGN_SISO_Ant1_NTNV_Input_AGC



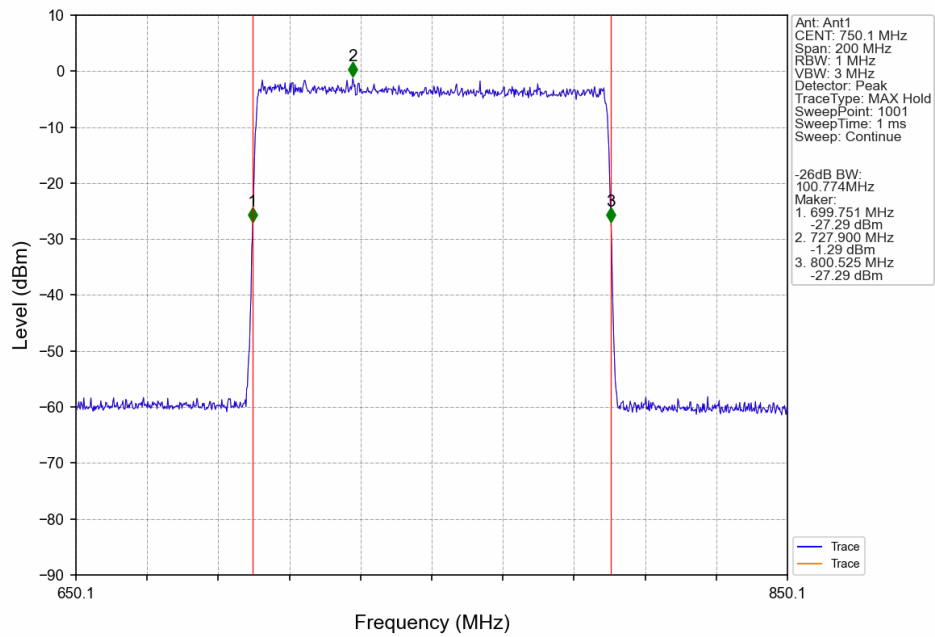
Band13_750.1MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC+3



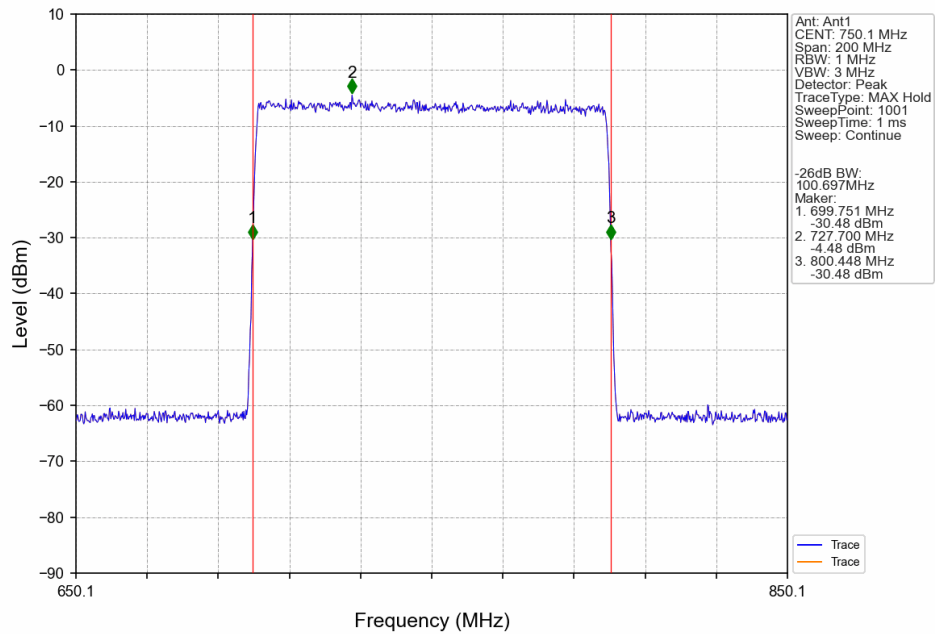
Band13_750.1MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC



Band13_750.1MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC+3



Band13_750.1MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC



4. Input/output power and amplifier/booster gain

4.1 Test Result

4.1.1 Band13_ERP

Band: 13 / 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	-0.3	750.1	SISO	1	33.66	-0.15	43.51	<=60	33.81	Pass
0.2MHz	2.7	750.1	SISO	1	33.72	2.89	43.57	<=60	/	Pass
AWGN	-0.3	750.1	SISO	1	26.56	-7.13	36.41	<=60	33.69	Pass
5MHz	2.7	750.1	SISO	1	26.66	-4.15	36.51	<=60	/	Pass
AWGN	-0.3	750.1	SISO	1	13.50	-19.98	23.35	<=60	33.48	Pass
100MHz	2.7	750.1	SISO	1	13.64	-16.96	23.49	<=60	/	Pass

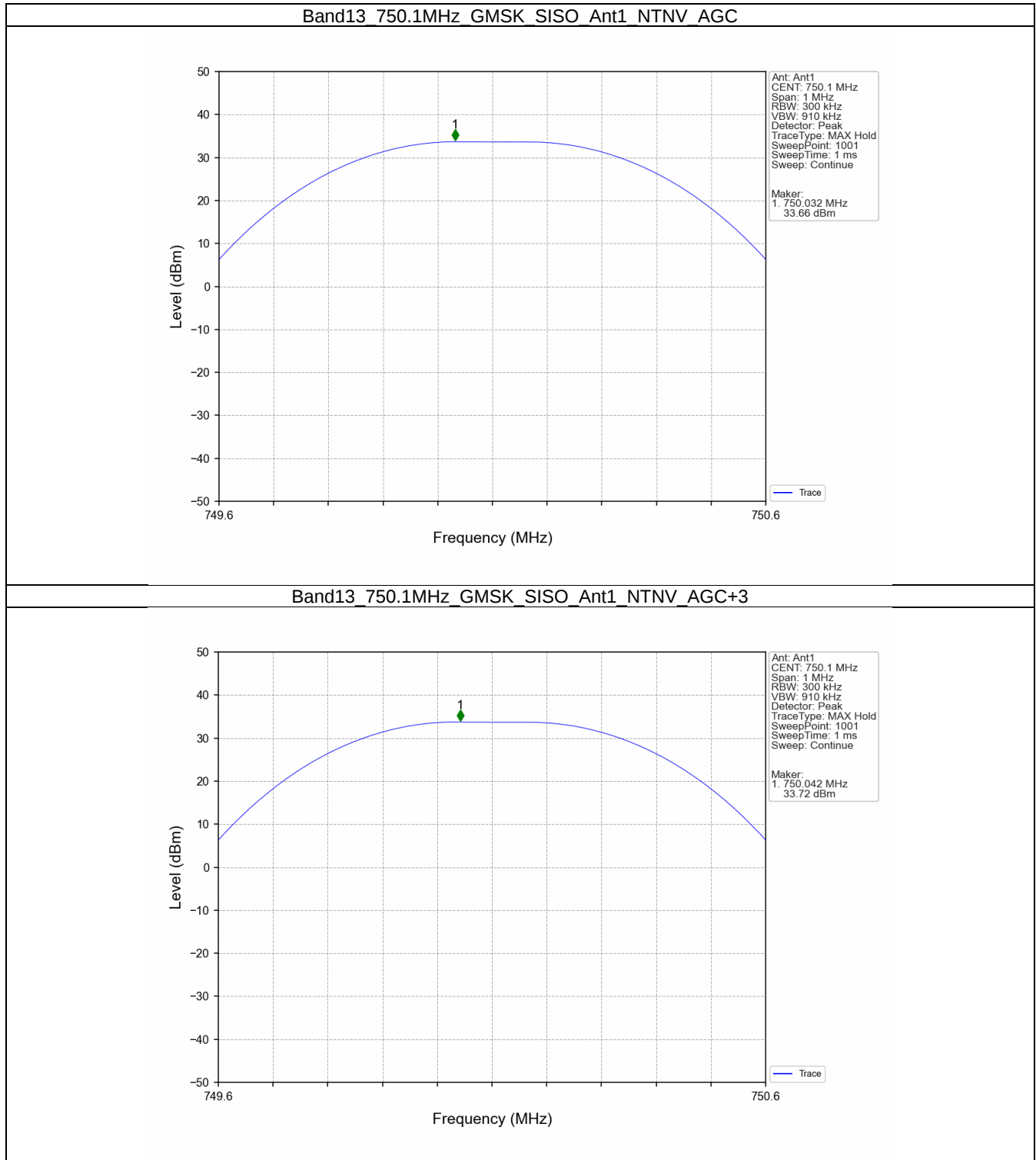
Signal			ANT	Conducted Power (dBm)	ERP (dBm)	Limit	Verdict
Type	Level (dBm)	Frequency (MHz)		SISO	SISO		
GMSK	-0.3	750.1	1	33.66	43.51	/	Pass
0.2MHz	2.7	750.1	1	33.72	43.57	/	Pass
AWGN	-0.3	750.1	1	33.55	43.40	/	Pass
5MHz	2.7	750.1	1	33.65	43.50	/	Pass
AWGN	-0.3	750.1	1	33.50	43.35	/	Pass
100MHz	2.7	750.1	1	33.64	43.49	/	Pass

4.1.2 Band13_PAPR

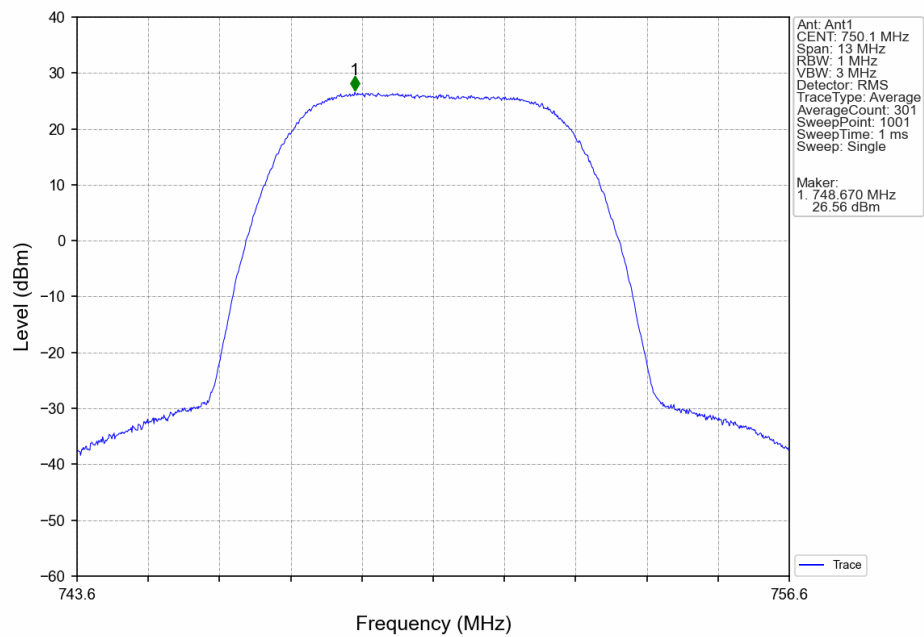
Band: 13 / NTNV							
Signal			TX Type	ANT	PAPR (dB)		Verdict
Type	Level (dBm)	Frequency (MHz)			Result	Limit	
GMSK	-0.3	750.1	SISO	1	0.23	<=13	Pass
0.2MHz	2.7	750.1	SISO	1	0.24	<=13	Pass
AWGN	-0.3	750.1	SISO	1	8.36	<=13	Pass
5MHz	2.7	750.1	SISO	1	8.15	<=13	Pass
AWGN	-0.3	750.1	SISO	1	8.46	<=13	Pass
100MHz	2.7	750.1	SISO	1	8.41	<=13	Pass

4.2 Test Graph

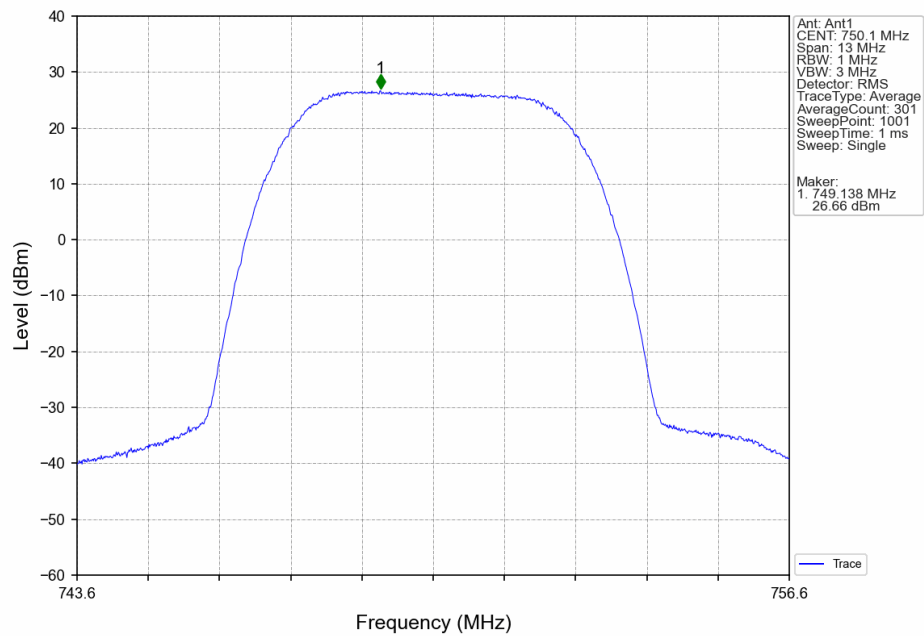
4.2.1 Band13_ERP



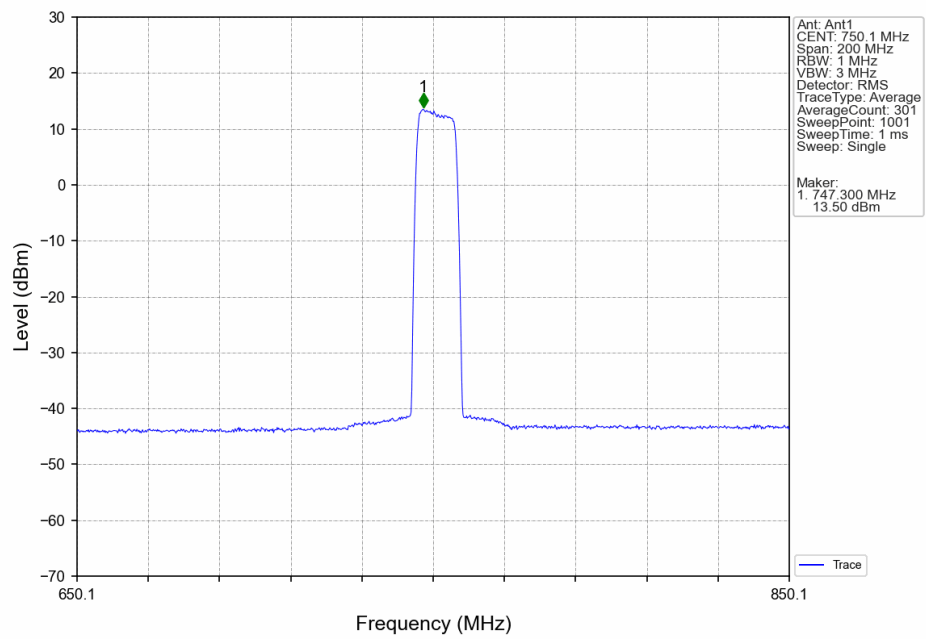
Band13_750.1MHz_AWGN_SISO_Ant1_NTNV_AGC



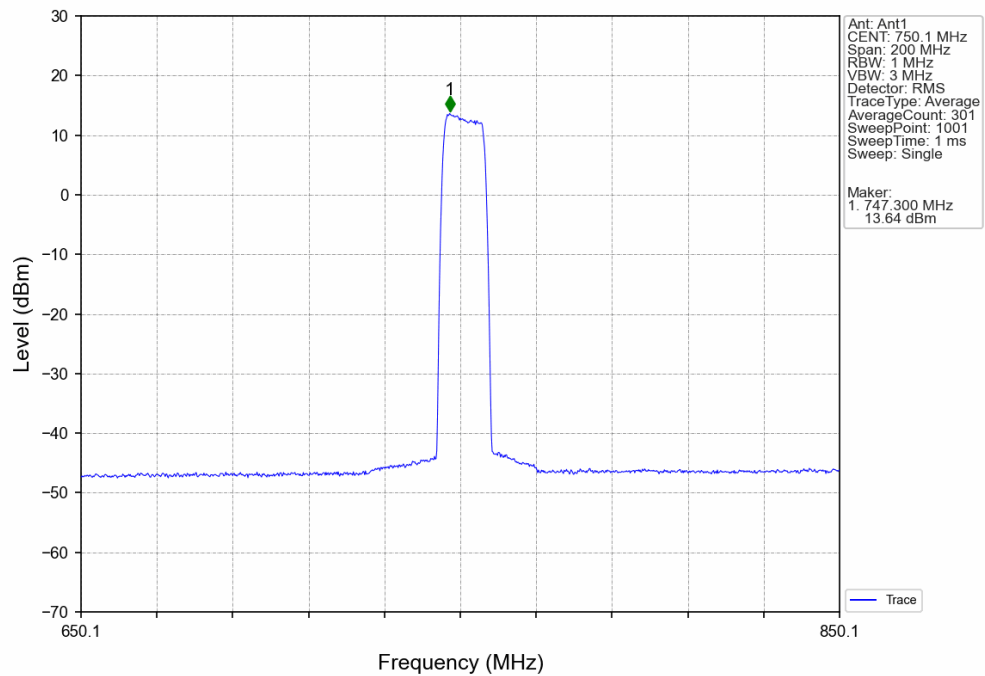
Band13_750.1MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band13_750.1MHz_Broad100MHz_SISO_Ant1_NTNV_AGC

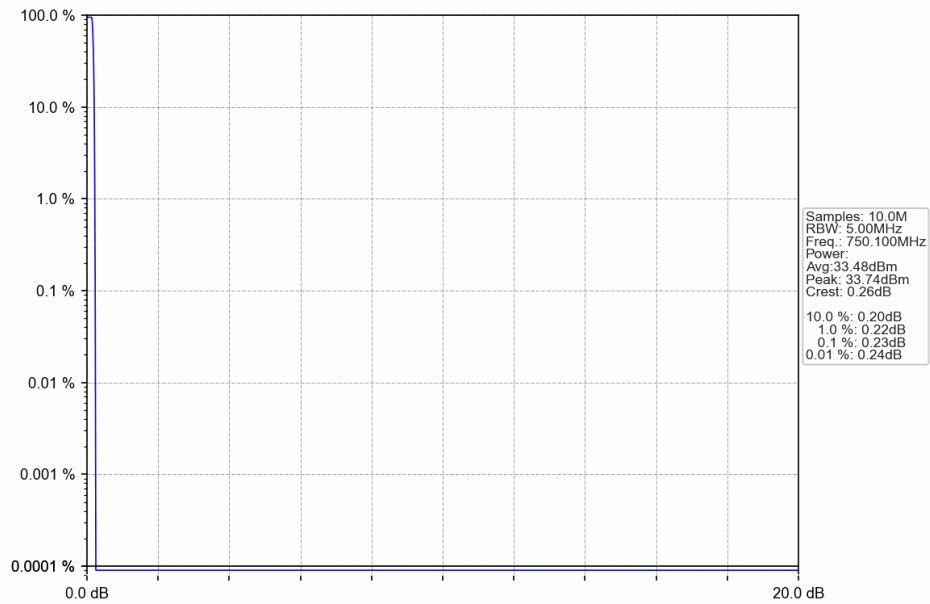


Band13_750.1MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3

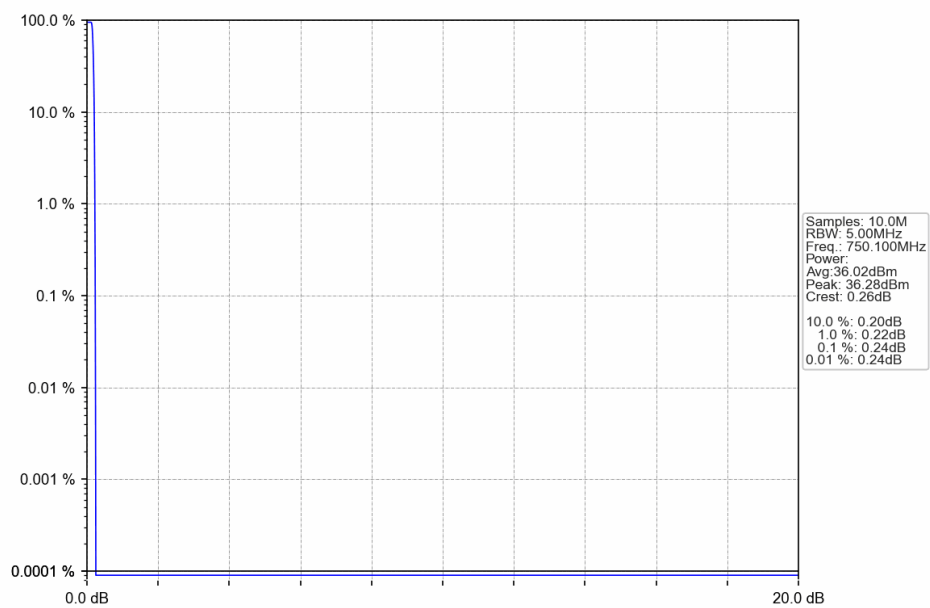


4.2.2 Band13_PAPR

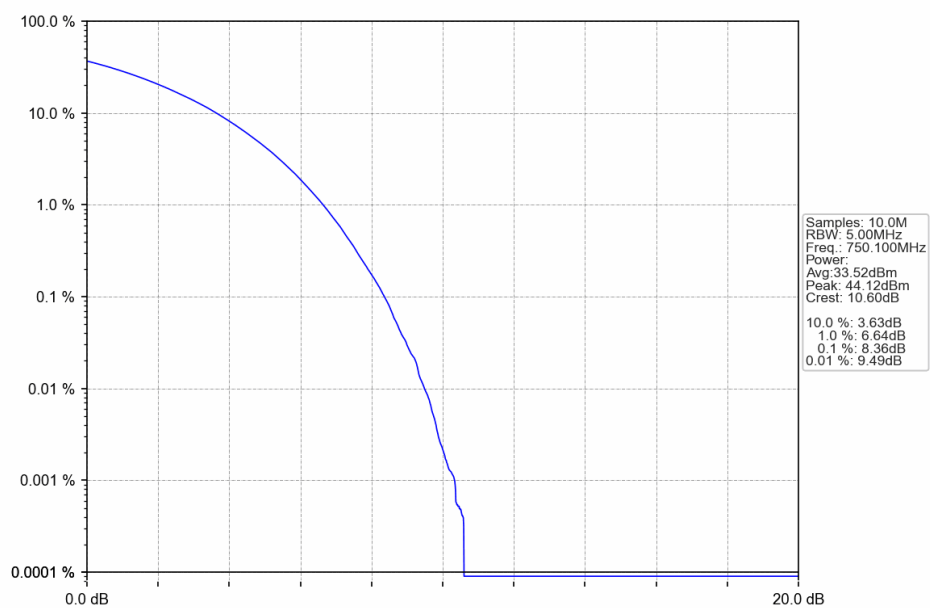
Band13_750.1MHz_GMSK_SISO_Ant1_NTNV_AGC



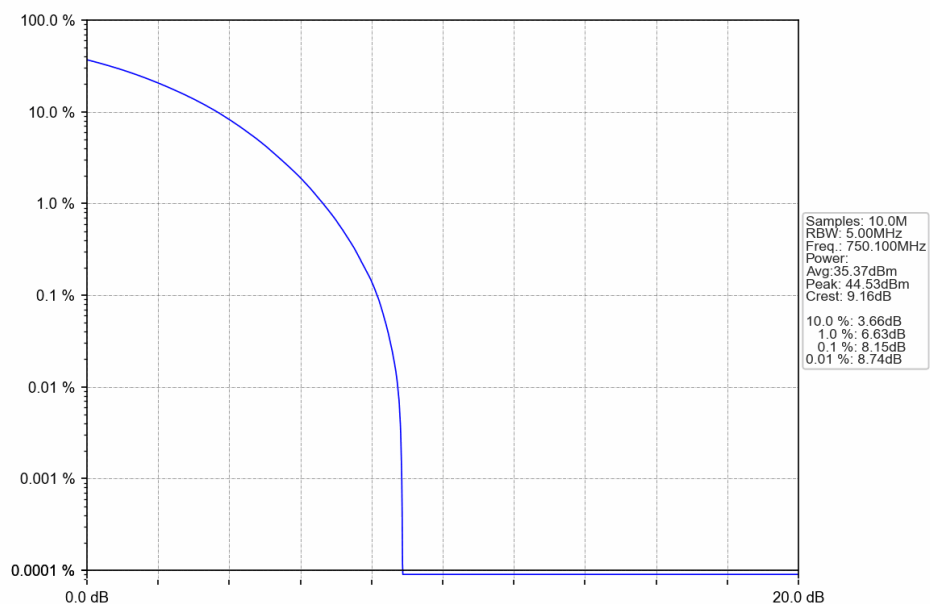
Band13_750.1MHz_GMSK_SISO_Ant1_NTNV_AGC+3



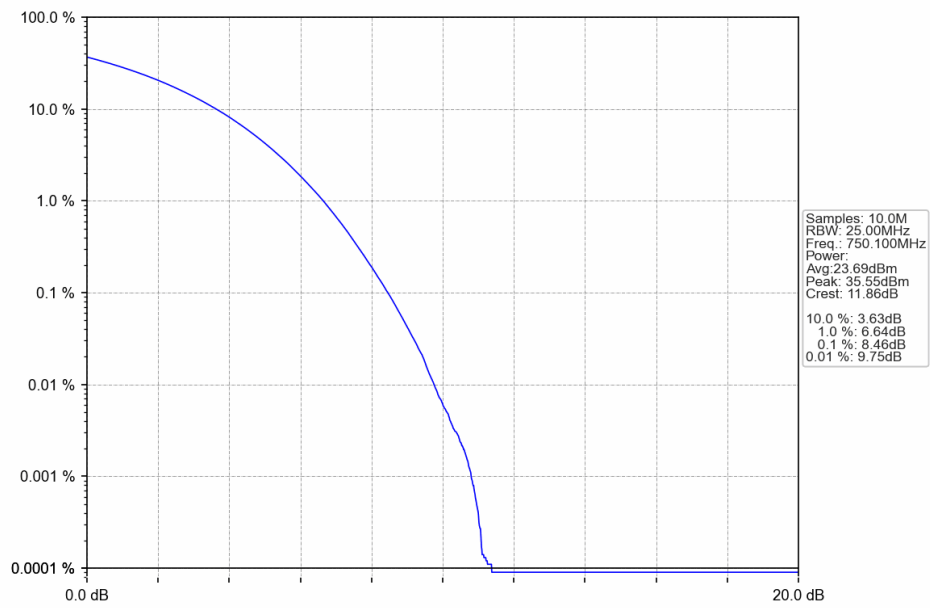
Band13_750.1MHz_AWGN_SISO_Ant1_NTNV_AGC



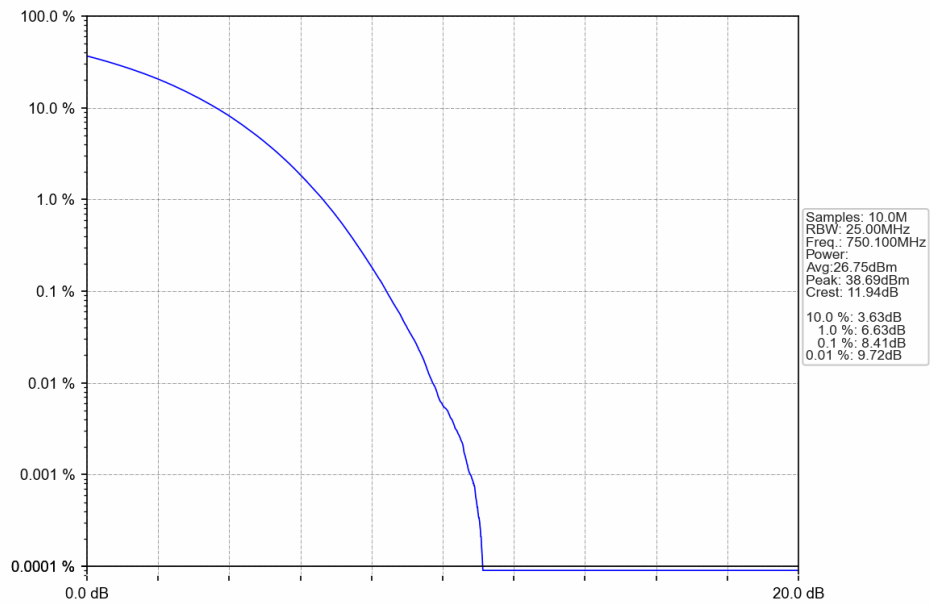
Band13_750.1MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band13_750.1MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Band13_750.1MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



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

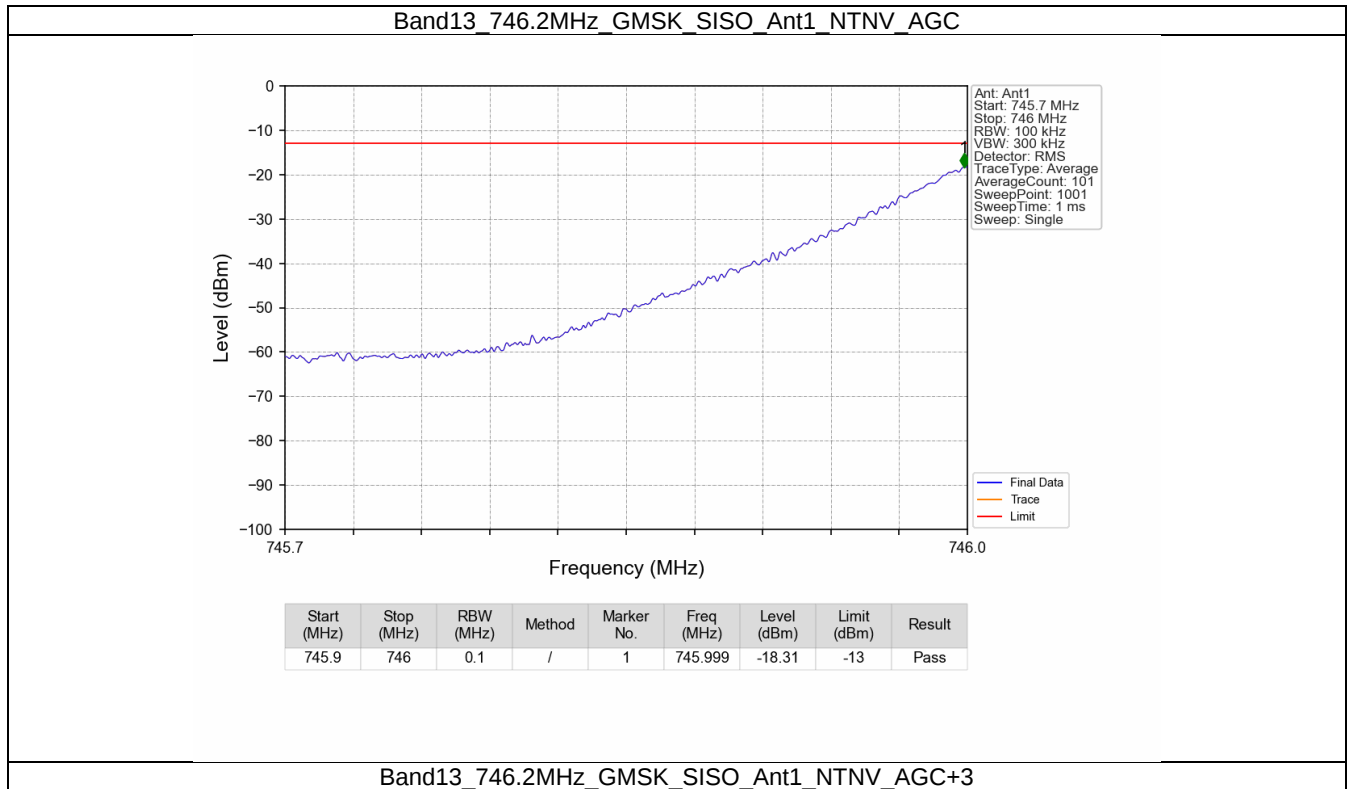
5.1 Test Result

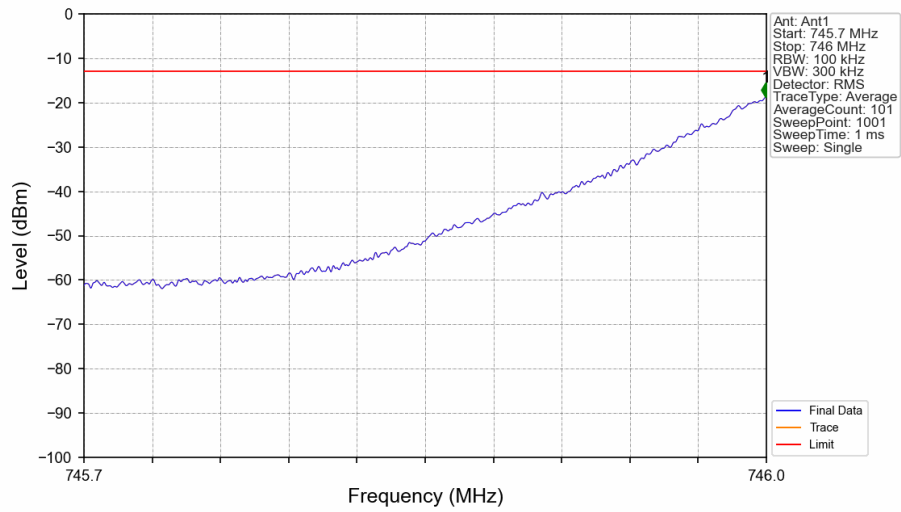
5.1.1 Band13

Band: 13 / NTNV									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	GMSK 0.2MHz	-0.3	746.2	LCH	SISO	1	-18.31	Refer To Test Graph	Pass
		2.7	746.2	LCH	SISO	1	-18.66	Refer To Test Graph	Pass
One	GMSK 0.2MHz	-0.3	746.2	LCH	SISO	1	-17.91	Refer To Test Graph	Pass
		2.7	746.2	LCH	SISO	1	-16.42	Refer To Test Graph	Pass
Two	GMSK 0.2MHz	-0.3	755.8	HCH	SISO	1	-18.16	Refer To Test Graph	Pass
		2.7	755.8	HCH	SISO	1	-17.72	Refer To Test Graph	Pass
One	GMSK 0.2MHz	-0.3	755.8	HCH	SISO	1	-19.04	Refer To Test Graph	Pass
		2.7	755.8	HCH	SISO	1	-16.57	Refer To Test Graph	Pass
Two	AWGN 5MHz	-0.3	748.5	LCH	SISO	1	-35.30	Refer To Test Graph	Pass
		2.7	748.5	LCH	SISO	1	-34.76	Refer To Test Graph	Pass
One	AWGN 5MHz	-0.3	748.5	LCH	SISO	1	-35.72	Refer To Test Graph	Pass
		2.7	748.5	LCH	SISO	1	-34.53	Refer To Test Graph	Pass
Two	AWGN 5MHz	-0.3	753.5	HCH	SISO	1	-33.10	Refer To Test Graph	Pass
		2.7	753.5	HCH	SISO	1	-34.54	Refer To Test Graph	Pass
One	AWGN 5MHz	-0.3	753.5	HCH	SISO	1	-36.32	Refer To Test Graph	Pass
		2.7	753.5	HCH	SISO	1	-34.39	Refer To Test Graph	Pass
Two	AWGN 100MHz	-0.3	796	LCH	SISO	1	-58.04	Refer To Test Graph	Pass
		2.7	796	LCH	SISO	1	-56.67	Refer To Test Graph	Pass
One	AWGN 100MHz	-0.3	796	LCH	SISO	1	-59.28	Refer To Test Graph	Pass
		2.7	796	LCH	SISO	1	-58.02	Refer To Test Graph	Pass
Two	AWGN 100MHz	-0.3	706	HCH	SISO	1	-59.00	Refer To Test Graph	Pass
		2.7	706	HCH	SISO	1	-57.48	Refer To Test Graph	Pass
One	AWGN 100MHz	-0.3	706	HCH	SISO	1	-59.80	Refer To Test Graph	Pass
		2.7	706	HCH	SISO	1	-58.85	Refer To Test Graph	Pass

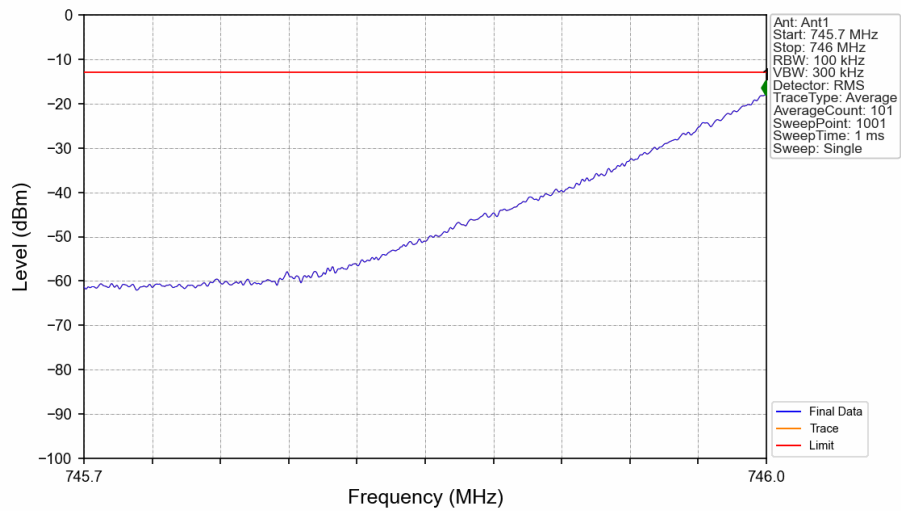
5.2 Test Graph

5.2.1 Band13

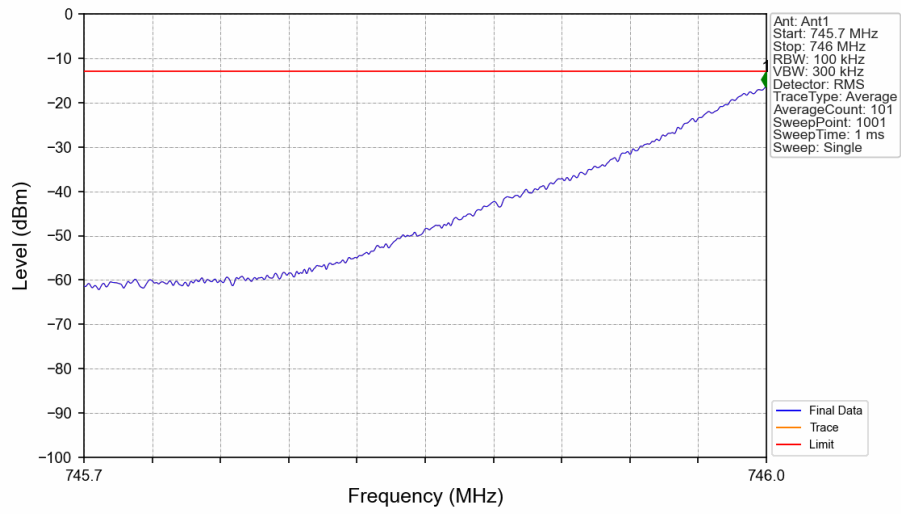




Band13 746.2MHz GMSK SISO Ant1 NTNV AGC

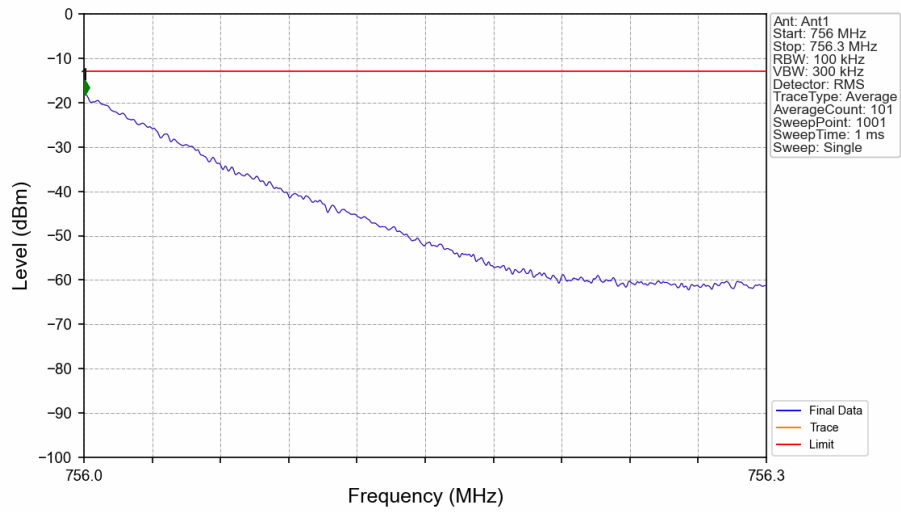


Band13 746.2MHz GMSK SISO Ant1 NTNV AGC+3



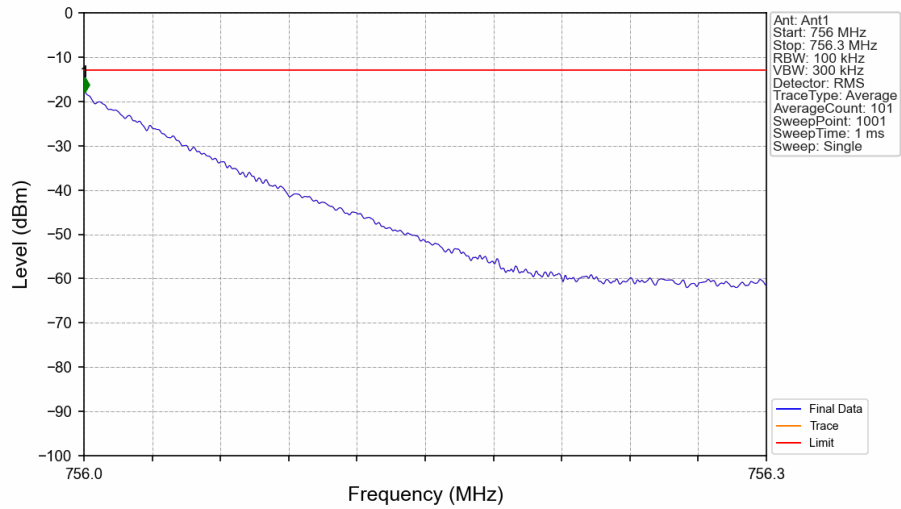
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
745.9	746	0.1	/	1	746.000	-16.42	-13	Pass

Band13_755.8MHz_GMSK_SISO_Ant1_NTNV_AGC



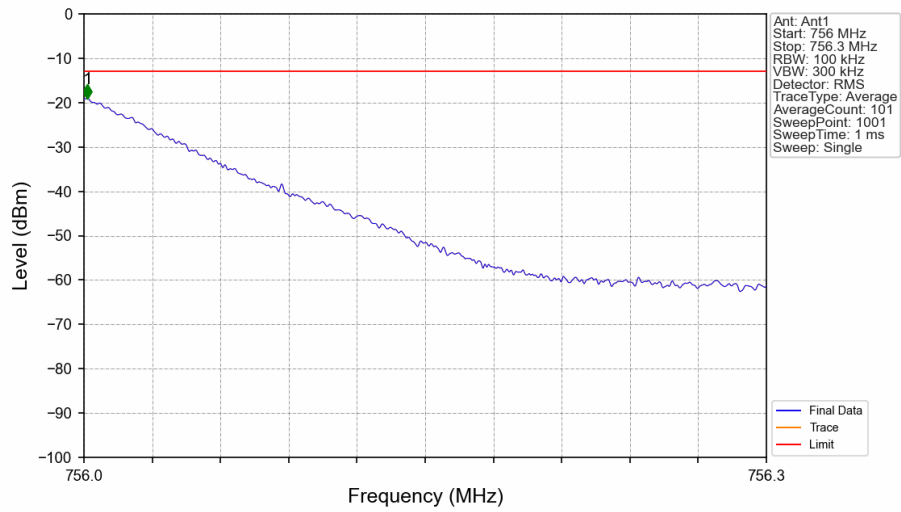
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756.1	756.3	0.1	/	1	756.000	-18.17	-13	Pass

Band13_755.8MHz_GMSK_SISO_Ant1_NTNV_AGC+3



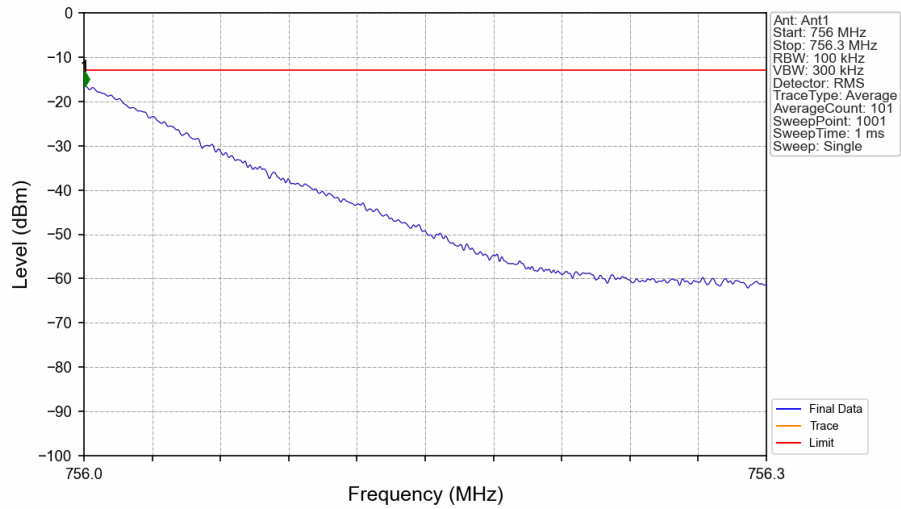
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756.1	756.3	0.1	/	1	756.000	-17.72	-13	Pass

Band13_755.8MHz_GMSK_SISO_Ant1_NTNV_AGC



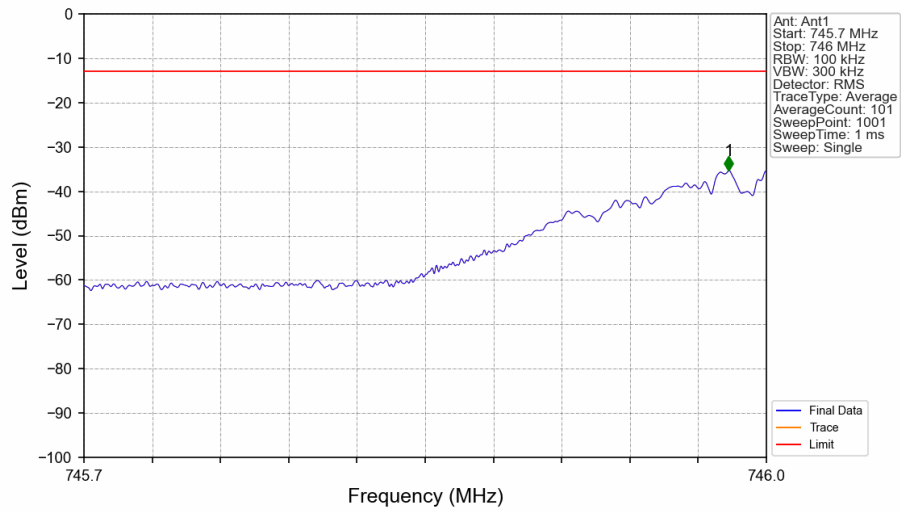
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756.1	756.3	0.1	/	1	756.001	-19.04	-13	Pass

Band13_755.8MHz_GMSK_SISO_Ant1_NTNV_AGC+3



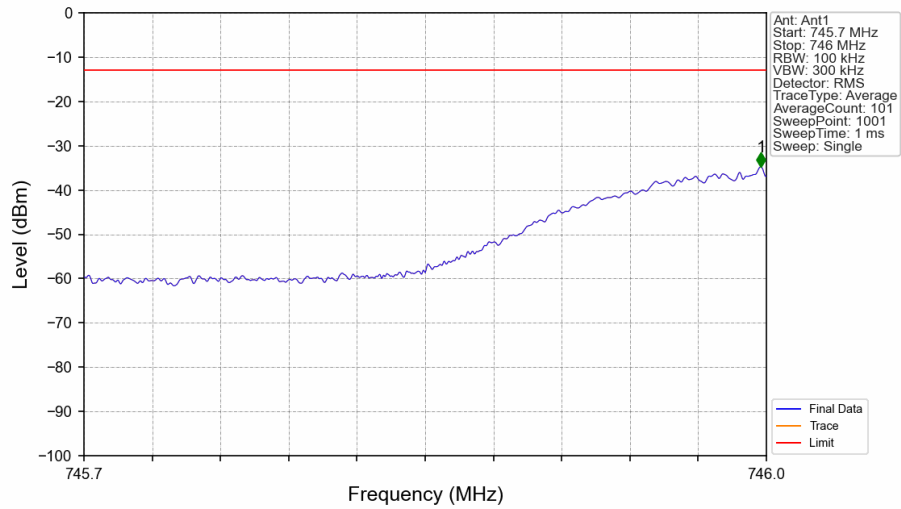
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756.1	756.3	0.1	/	1	756.000	-16.57	-13	Pass

Band13_748.5MHz_AWGN_SISO_Ant1_NTNV_AGC



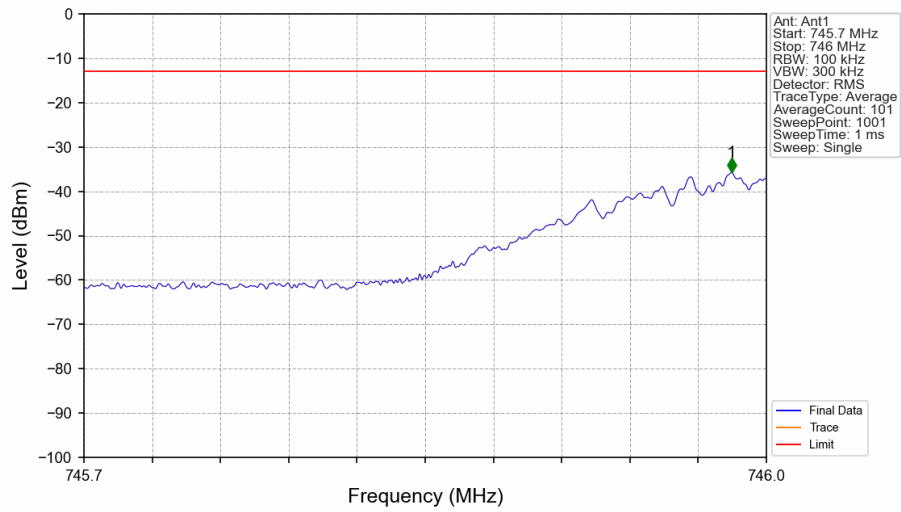
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
745.9	746	0.1	/	1	745.984	-35.29	-13	Pass

Band13_748.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



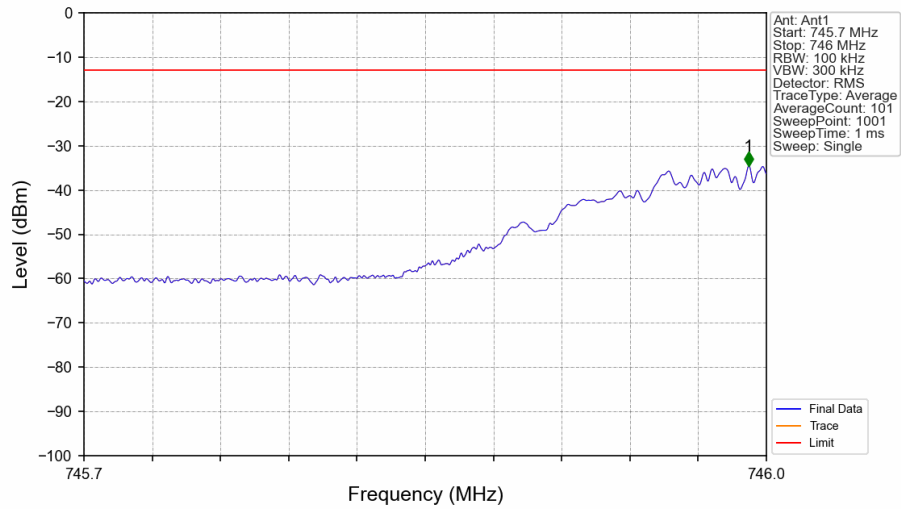
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
745.9	746	0.1	/	1	745.998	-34.76	-13	Pass

Band13_748.5MHz_AWGN_SISO_Ant1_NTNV_AGC



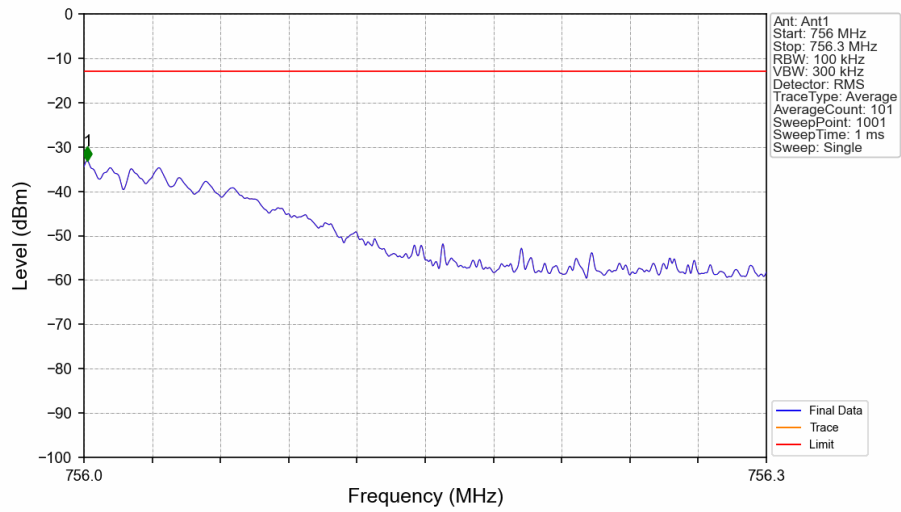
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
745.9	746	0.1	/	1	745.985	-35.72	-13	Pass

Band13_748.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



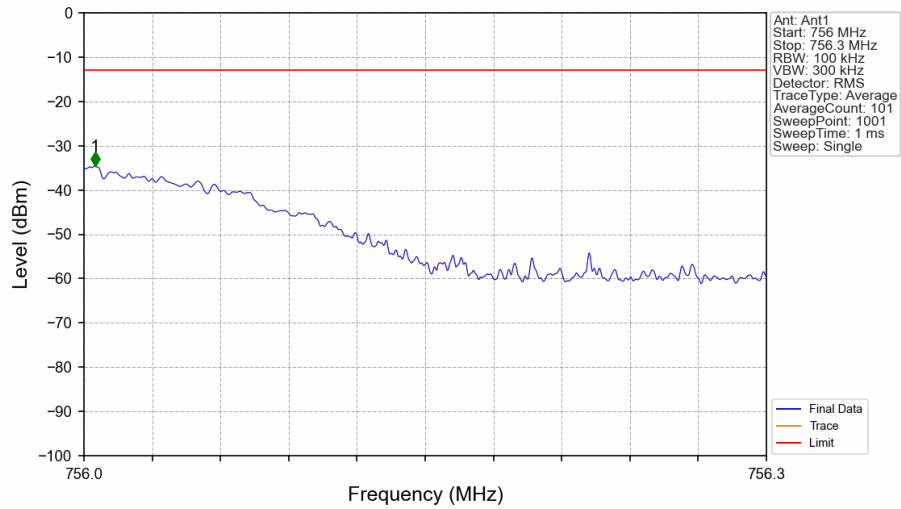
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
745.9	746	0.1	/	1	745.992	-34.53	-13	Pass

Band13_753.5MHz_AWGN_SISO_Ant1_NTNV_AGC



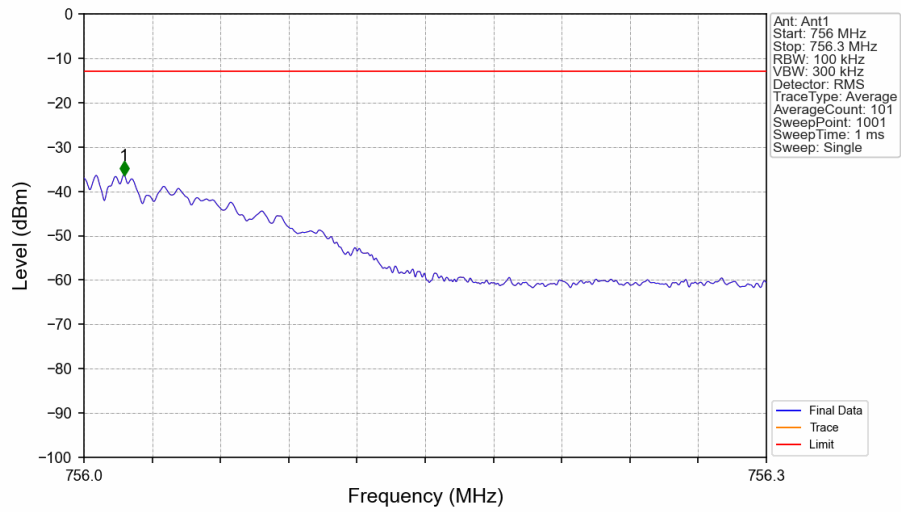
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756.1	756.3	0.1	/	1	756.001	-33.10	-13	Pass

Band13_753.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



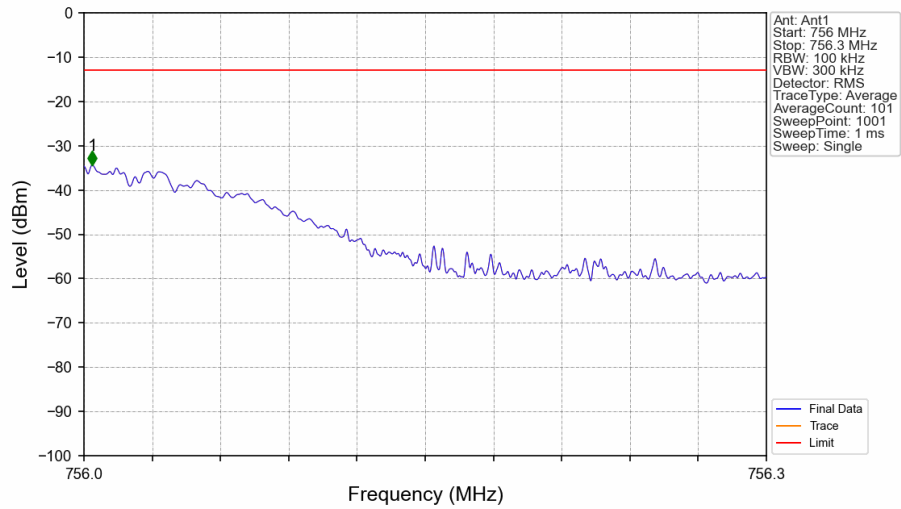
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756.1	756.3	0.1	/	1	756.005	-34.54	-13	Pass

Band13_753.5MHz_AWGN_SISO_Ant1_NTNV_AGC



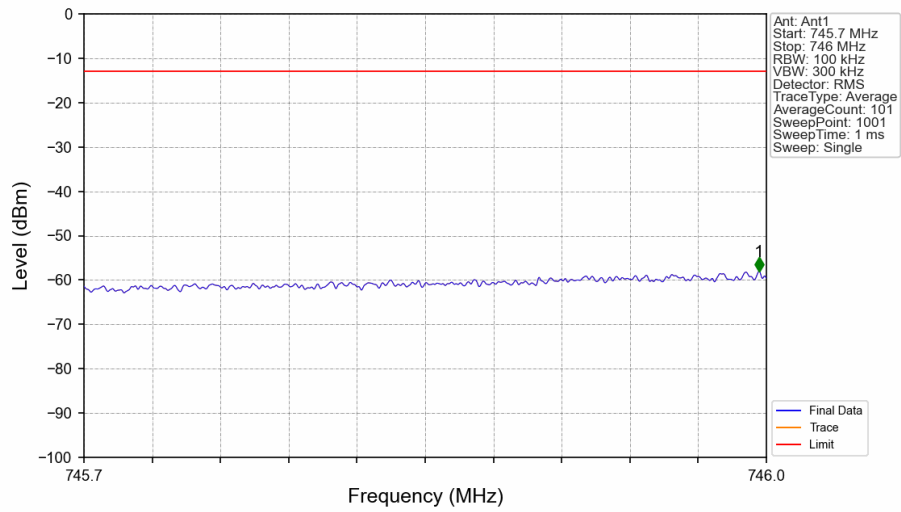
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756.1	756.3	0.1	/	1	756.018	-36.32	-13	Pass

Band13_753.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



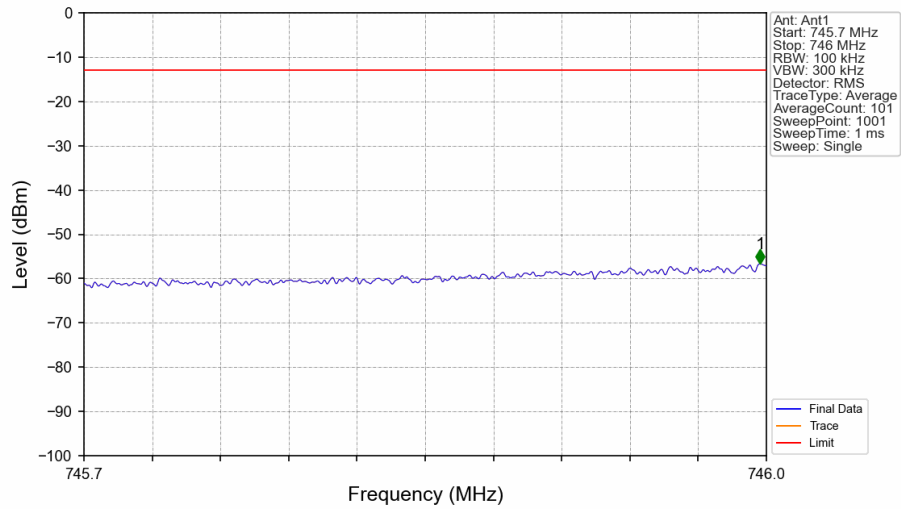
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756.1	756.3	0.1	/	1	756.004	-34.39	-13	Pass

Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



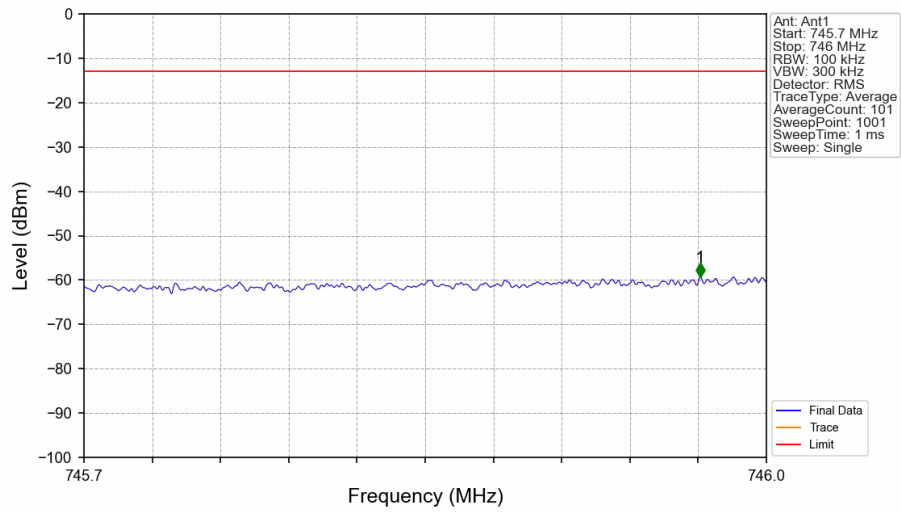
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
745.9	746	0.1	/	1	745.997	-58.04	-13	Pass

Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



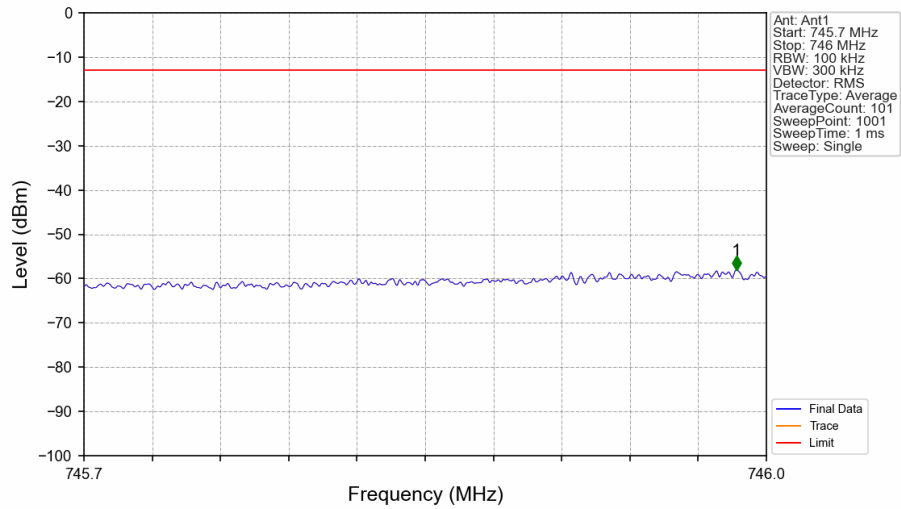
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
745.9	746	0.1	/	1	745.997	-56.67	-13	Pass

Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



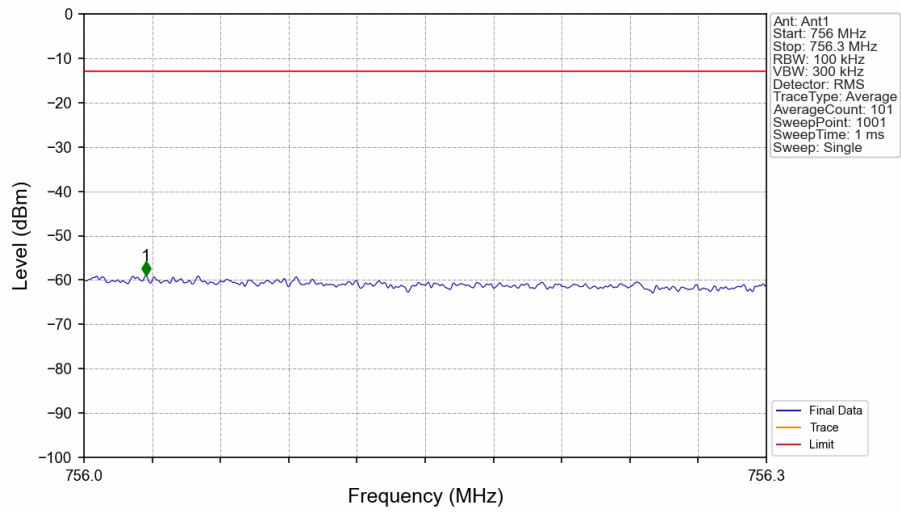
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
745.9	746	0.1	/	1	745.971	-59.28	-13	Pass

Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3

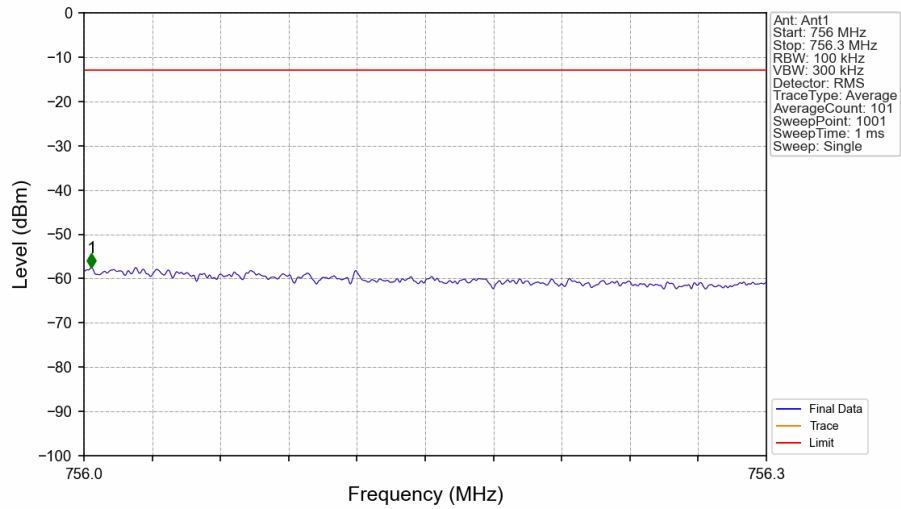


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
745.9	746	0.1	/	1	745.987	-58.02	-13	Pass

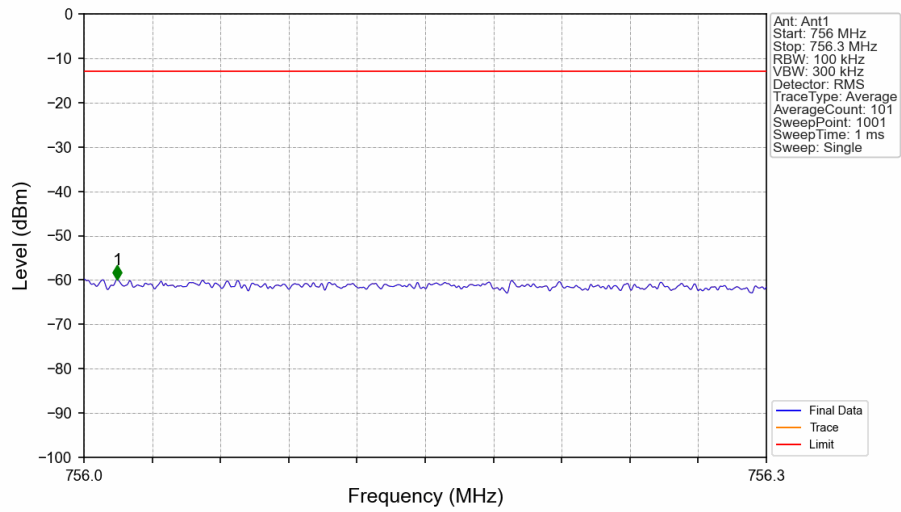
Band13_706MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Band13_706MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3

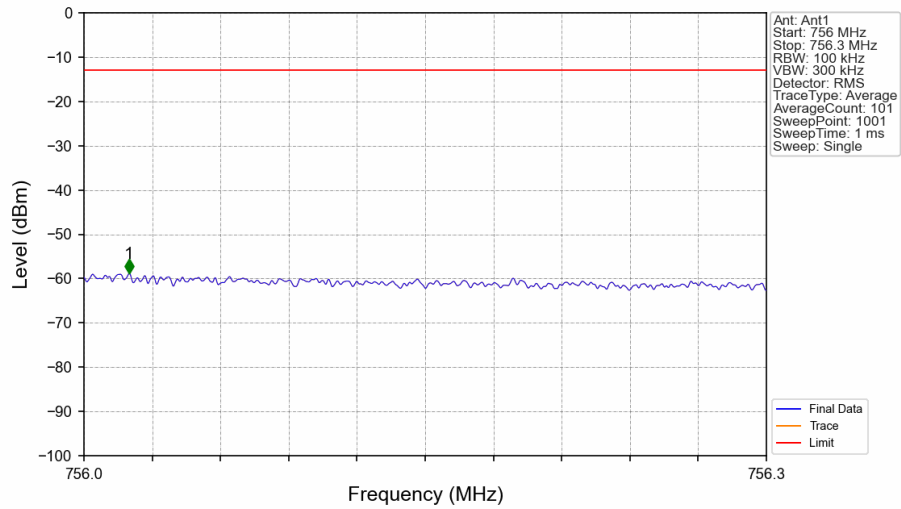


Band13_706MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756.1	756.3	0.1	/	1	756.015	-59.80	-13	Pass

Band13_706MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756.1	756.3	0.1	/	1	756.020	-58.85	-13	Pass

6. Spurious emissions

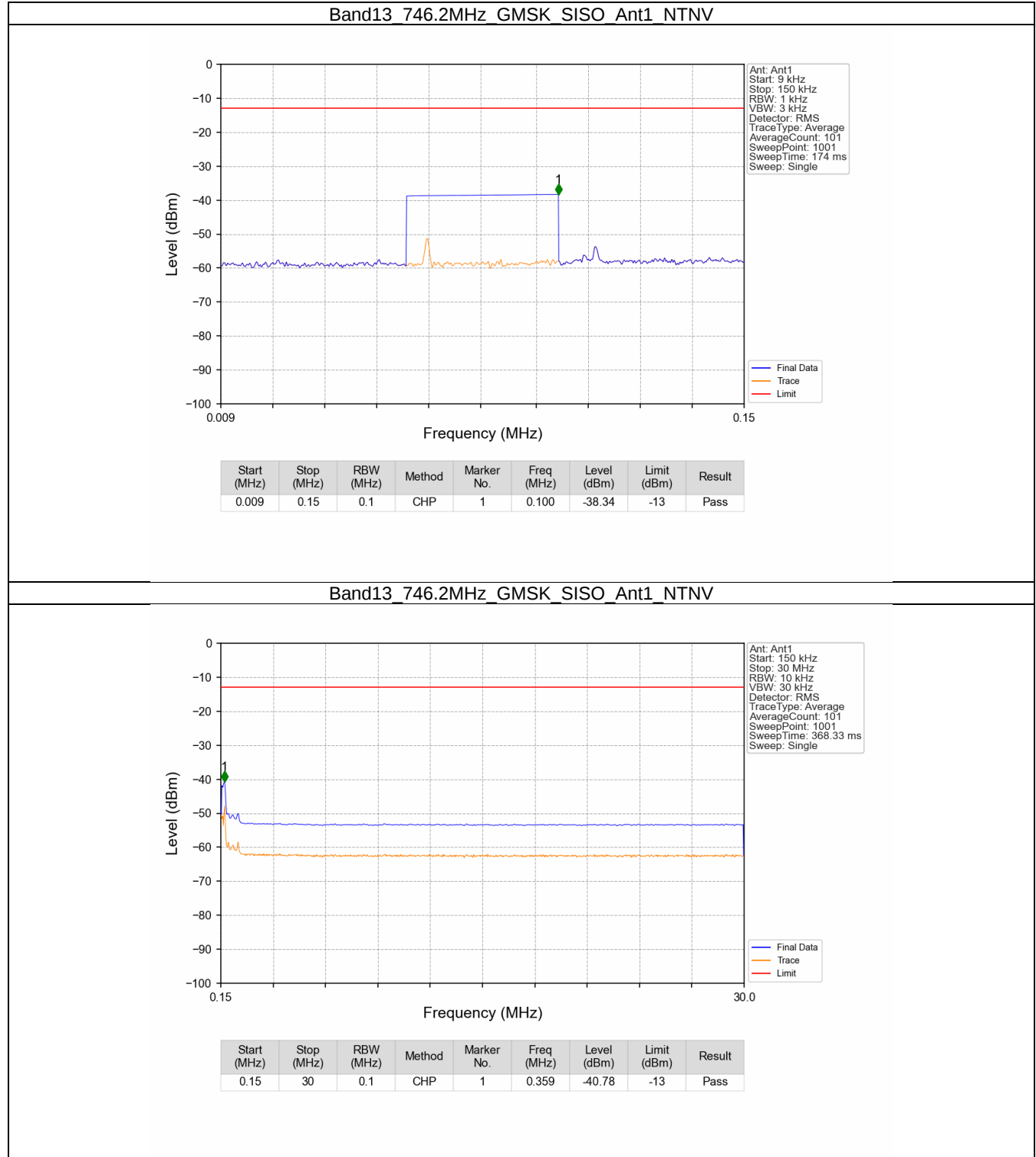
6.1 Test Result

6.1.1 Band13

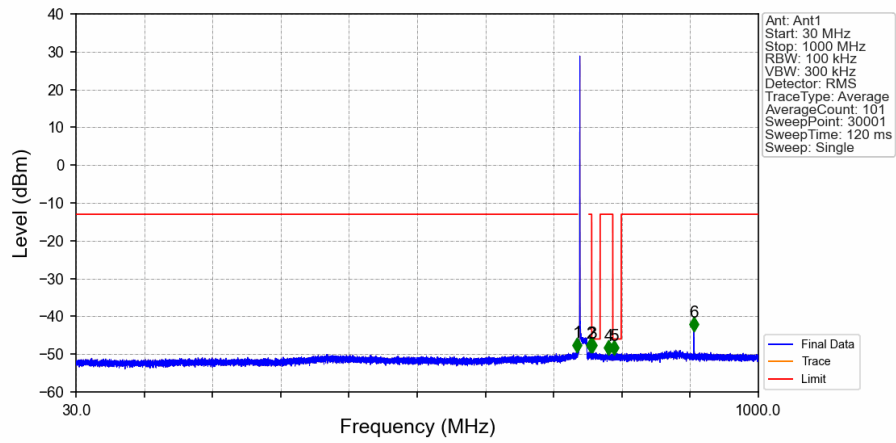
Band: 13 / NTV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
GMSK 0.2MHz	-0.3	746.2	LCH	SISO	1	Refer To Test Graph	Pass	
		751	MCH	SISO	1	Refer To Test Graph	Pass	
		755.8	HCH	SISO	1	Refer To Test Graph	Pass	
AWGN 5MHz	-0.3	748.5	LCH	SISO	1	Refer To Test Graph	Pass	
		751	MCH	SISO	1	Refer To Test Graph	Pass	
		753.5	HCH	SISO	1	Refer To Test Graph	Pass	
AWGN 100MHz	-0.3	796	LCH	SISO	1	Refer To Test Graph	Pass	
		751	MCH	SISO	1	Refer To Test Graph	Pass	
		706	HCH	SISO	1	Refer To Test Graph	Pass	

6.2 Test Graph

6.2.1 Band13

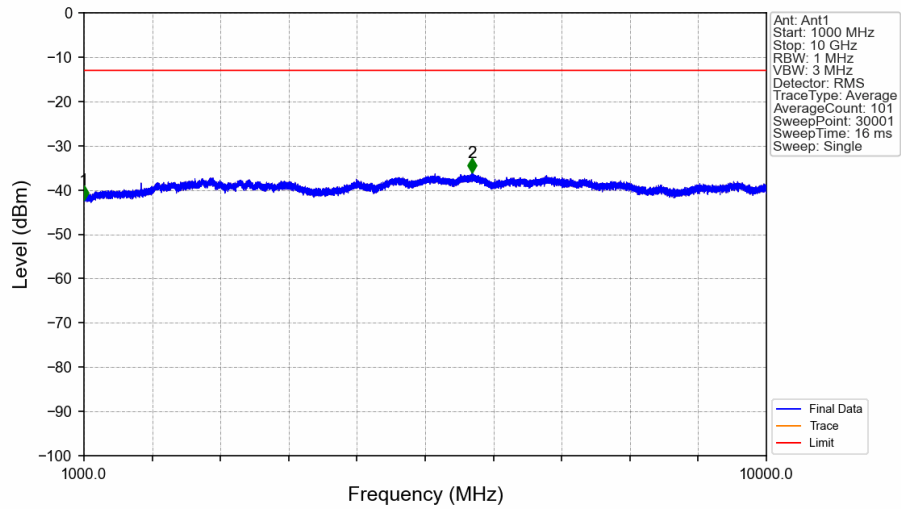


Band13_746.2MHz_GMSK_SISO_Ant1_NTNV



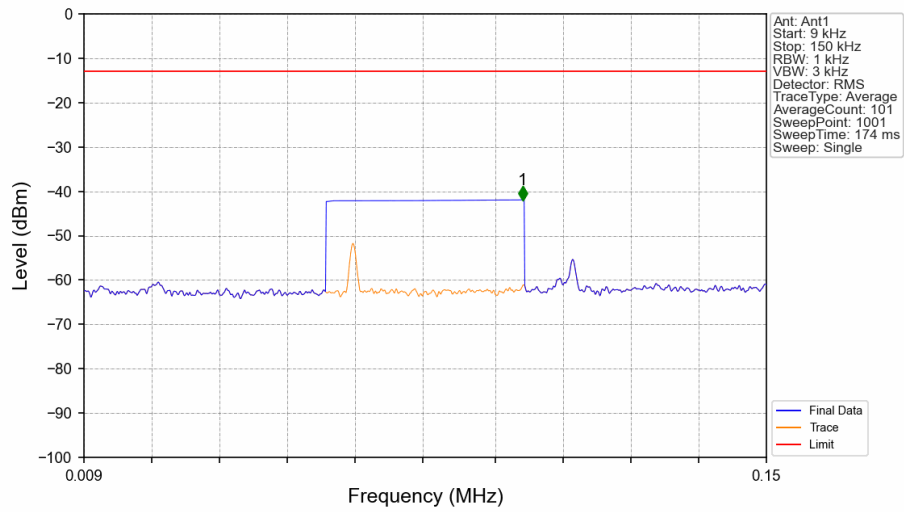
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	745.9	0.1	/	1	742.400	-49.13	-13	Pass
745.9	759.3	0.1	/	/	/	/	/	/
759.3	763	0.1	/	2	761.639	-49.18	-13	Pass
763	775	0.1	/	3	763.482	-49.17	-46	Pass
775	793	0.1	/	4	787.020	-49.79	-13	Pass
793	805	0.1	/	5	794.619	-49.83	-46	Pass
805	1000	0.1	/	6	908.173	-43.69	-13	Pass

Band13_746.2MHz_GMSK_SISO_Ant1_NTNV

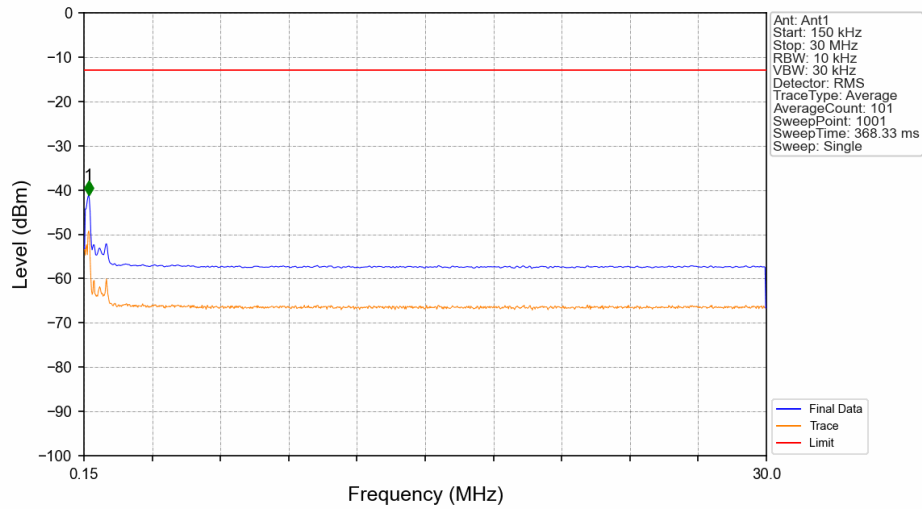


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-42.27	-13	Pass
1000	10000	1	/	2	6117.700	-36.10	-13	Pass

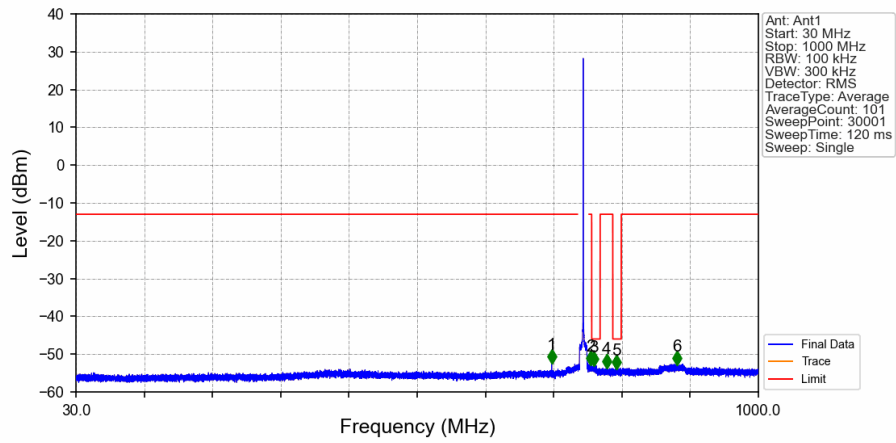
Band13_751MHz_GMSK_SISO_Ant1_NTNV



Band13_751MHz_GMSK_SISO_Ant1_NTNV

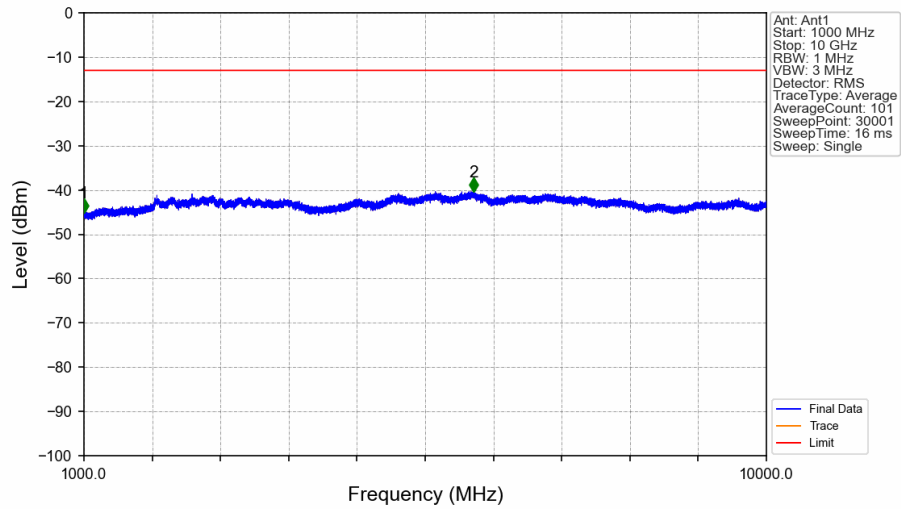


Band13_751MHz_GMSK_SISO_Ant1_NTNV



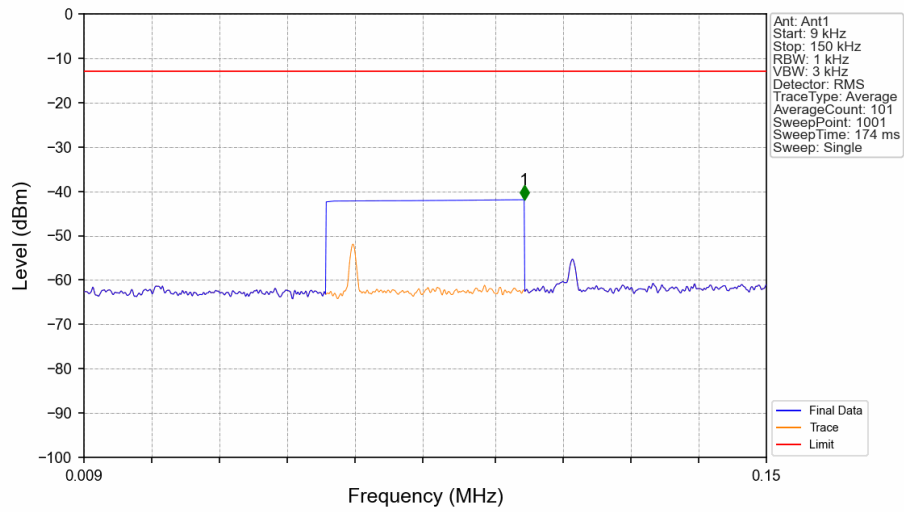
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	745.9	0.1	/	1	706.155	-52.21	-13	Pass
745.9	759.3	0.1	/	/	/	/	/	/
759.3	763	0.1	/	2	761.574	-52.63	-13	Pass
763	775	0.1	/	3	765.842	-52.87	-46	Pass
775	793	0.1	/	4	784.013	-53.39	-13	Pass
793	805	0.1	/	5	798.208	-53.66	-46	Pass
805	1000	0.1	/	6	884.376	-52.58	-13	Pass

Band13_751MHz_GMSK_SISO_Ant1_NTNV

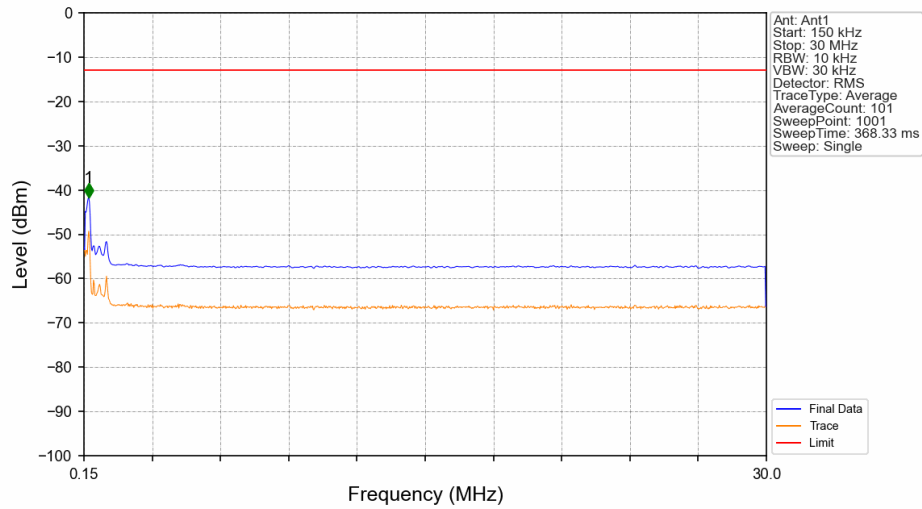


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-45.07	-13	Pass
1000	10000	1	/	2	6142.600	-40.32	-13	Pass

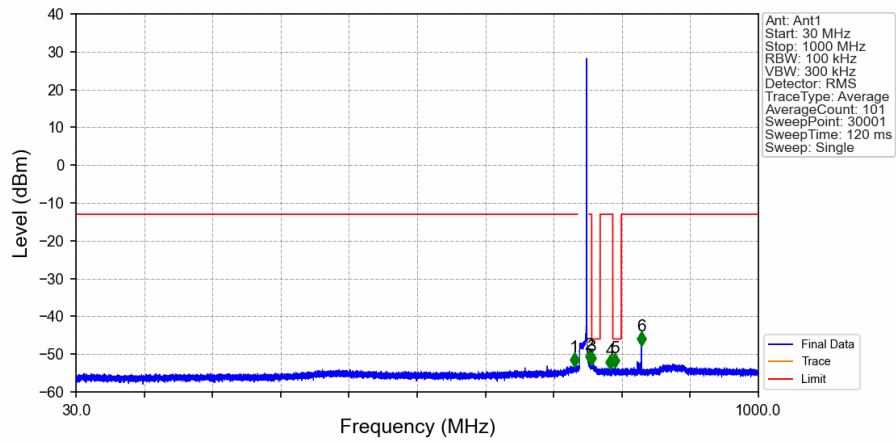
Band13_755.8MHz_GMSK_SISO_Ant1_NTNV



Band13_755.8MHz_GMSK_SISO_Ant1_NTNV

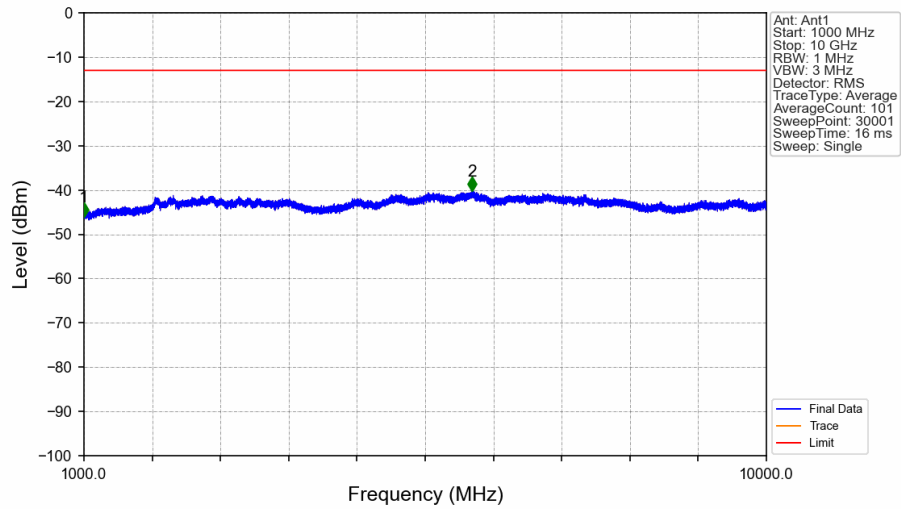


Band13_755.8MHz_GMSK_SISO_Ant1_NTNV



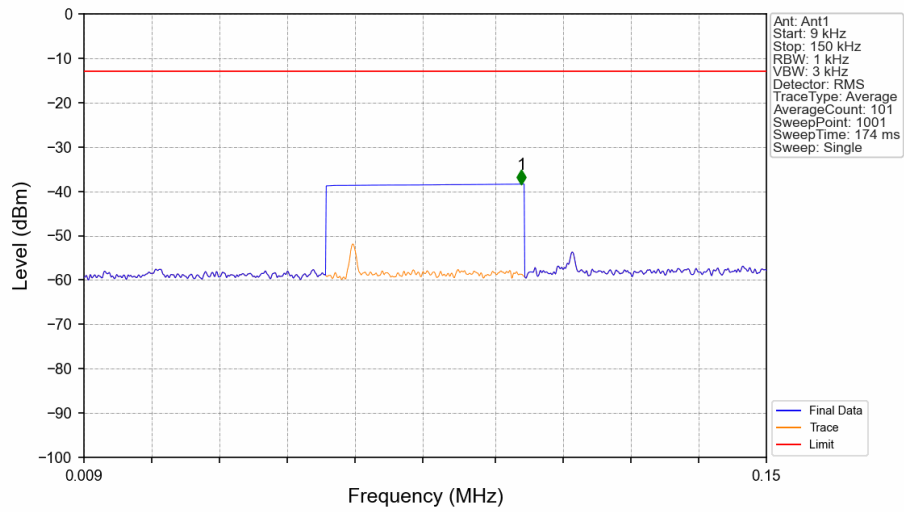
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	745.9	0.1	/	1	738.520	-52.94	-13	Pass
745.9	759.3	0.1	/	/	/	/	/	/
759.3	763	0.1	/	2	759.925	-52.21	-13	Pass
763	775	0.1	/	3	763.029	-52.63	-46	Pass
775	793	0.1	/	4	789.348	-53.70	-13	Pass
793	805	0.1	/	5	795.847	-53.18	-46	Pass
805	1000	0.1	/	6	833.677	-47.43	-13	Pass

Band13_755.8MHz_GMSK_SISO_Ant1_NTNV



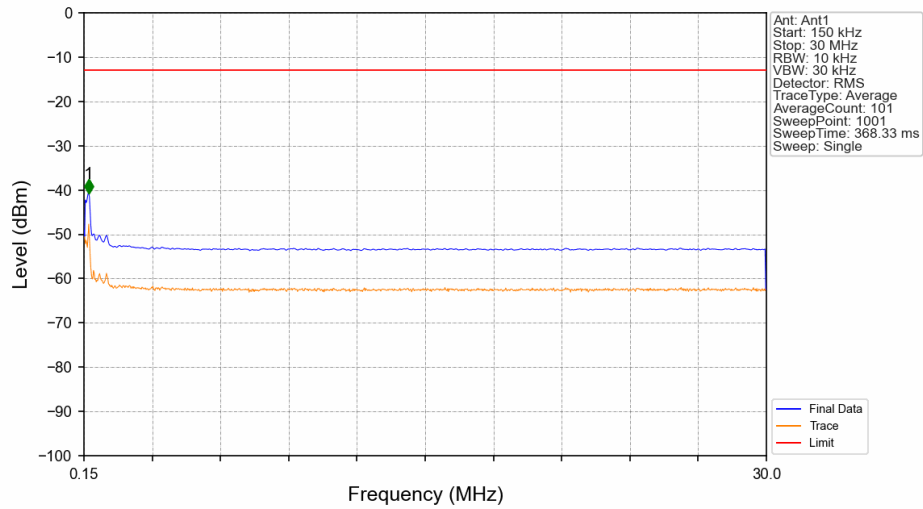
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-46.10	-13	Pass
1000	10000	1	/	2	6114.400	-40.12	-13	Pass

Band13_748.5MHz_AWGN_SISO_Ant1_NTNV



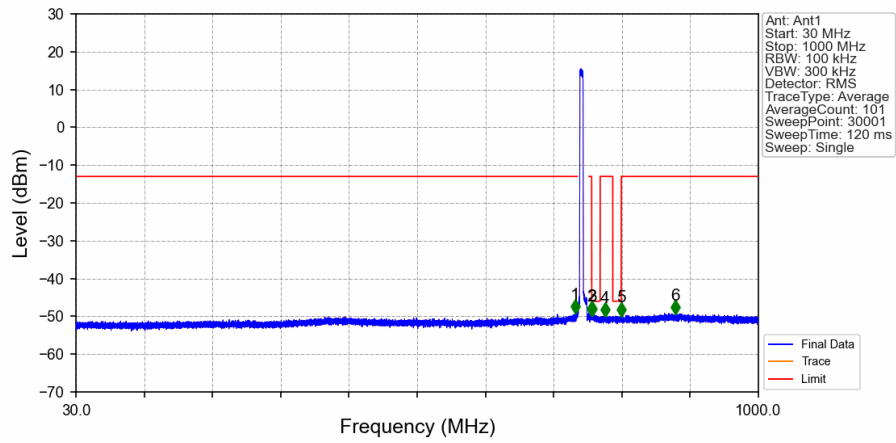
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	0.1	CHP	1	0.099	-38.38	-13	Pass

Band13_748.5MHz_AWGN_SISO_Ant1_NTNV



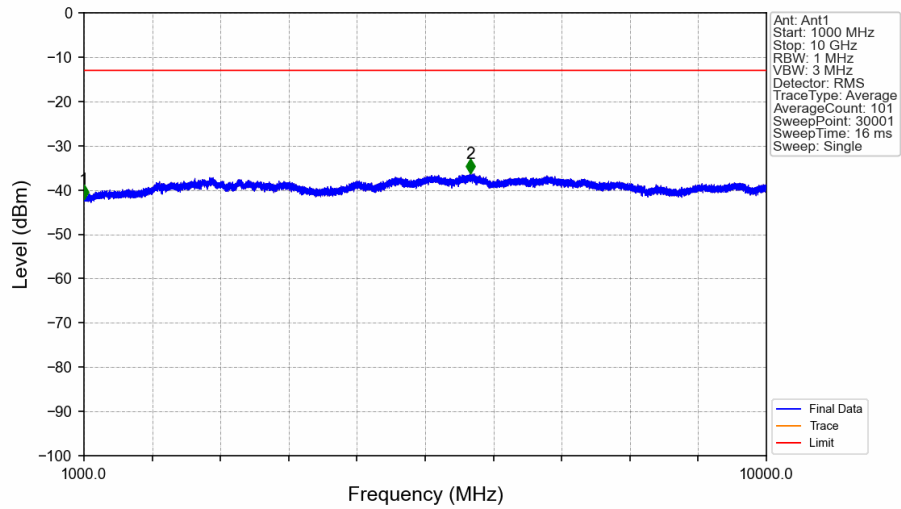
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	0.1	CHP	1	0.359	-40.70	-13	Pass

Band13_748.5MHz_AWGN_SISO_Ant1_NTNV



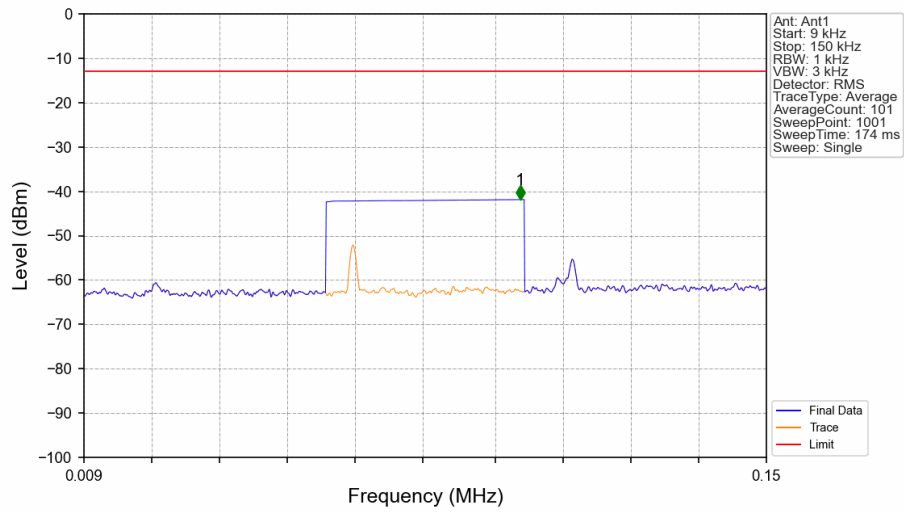
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	745.9	0.1	/	1	739.458	-49.00	-13	Pass
745.9	759.3	0.1	/	/	/	/	/	/
759.3	763	0.1	/	2	762.803	-49.48	-13	Pass
763	775	0.1	/	3	764.193	-49.48	-46	Pass
775	793	0.1	/	4	782.106	-49.86	-13	Pass
793	805	0.1	/	5	804.545	-49.68	-46	Pass
805	1000	0.1	/	6	881.563	-49.17	-13	Pass

Band13_748.5MHz_AWGN_SISO_Ant1_NTNV



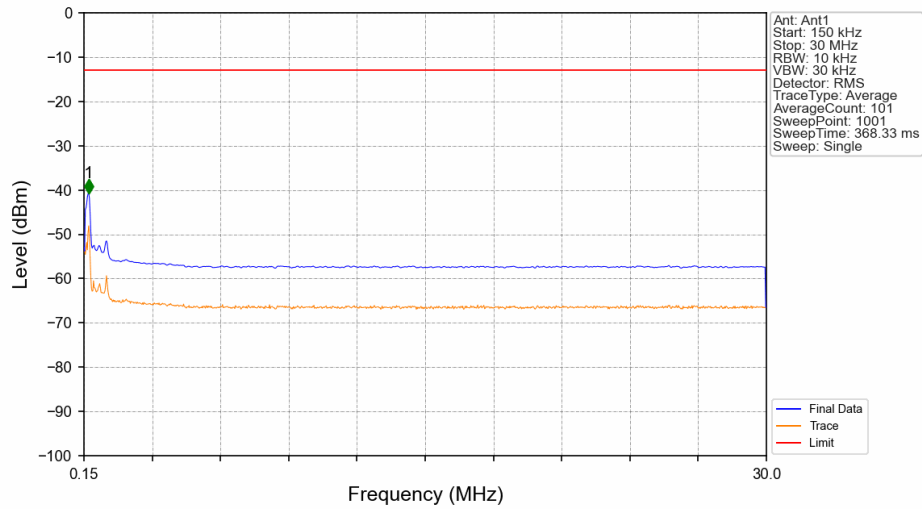
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-42.01	-13	Pass
1000	10000	1	/	2	6098.200	-36.22	-13	Pass

Band13_751MHz_AWGN_SISO_Ant1_NTNV



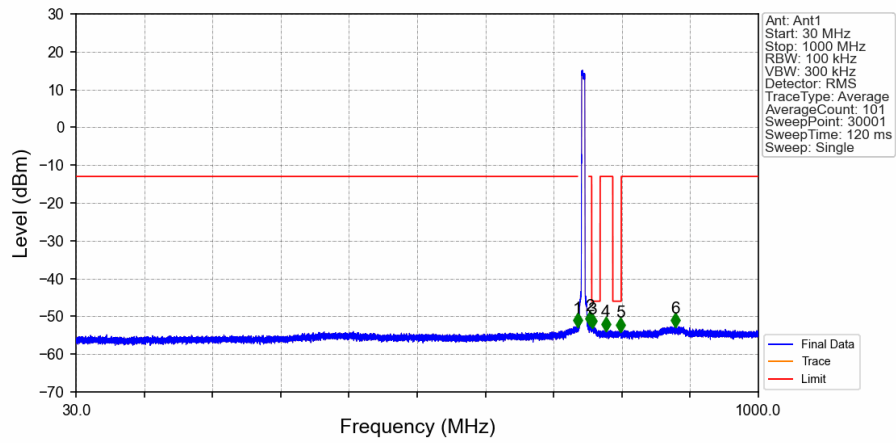
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	0.1	CHP	1	0.099	-41.87	-13	Pass

Band13_751MHz_AWGN_SISO_Ant1_NTNV



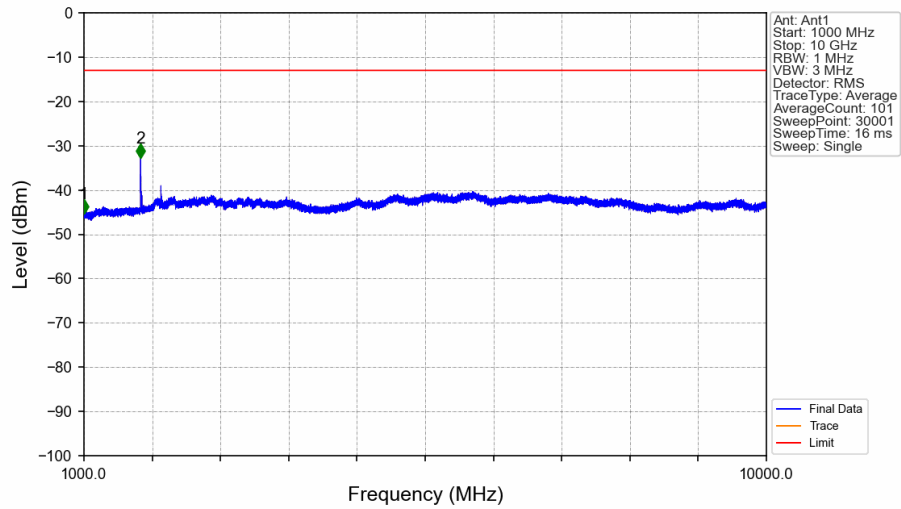
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	0.1	CHP	1	0.359	-40.66	-13	Pass

Band13_751MHz_AWGN_SISO_Ant1_NTNV



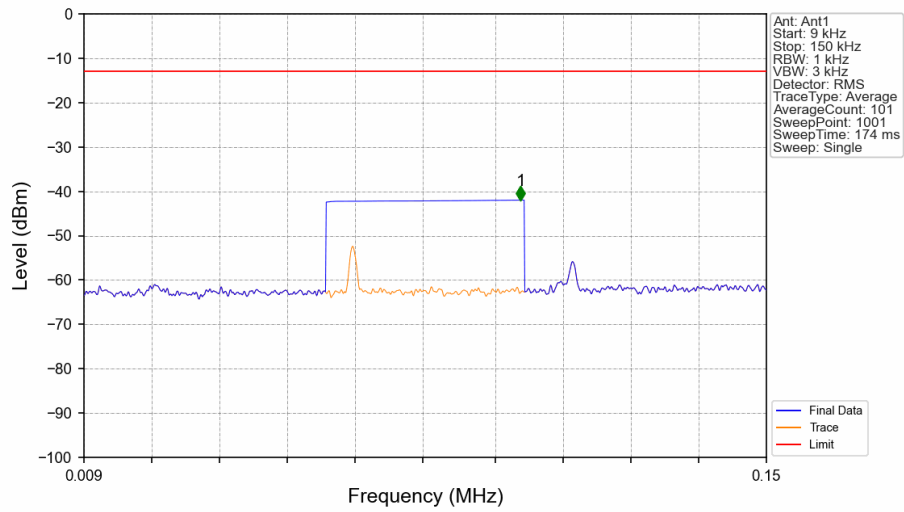
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	745.9	0.1	/	1	742.691	-52.66	-13	Pass
745.9	759.3	0.1	/	/	/	/	/	/
759.3	763	0.1	/	2	760.184	-52.03	-13	Pass
763	775	0.1	/	3	763.611	-52.78	-46	Pass
775	793	0.1	/	4	782.914	-53.56	-13	Pass
793	805	0.1	/	5	804.157	-53.80	-46	Pass
805	1000	0.1	/	6	882.307	-52.66	-13	Pass

Band13_751MHz_AWGN_SISO_Ant1_NTNV



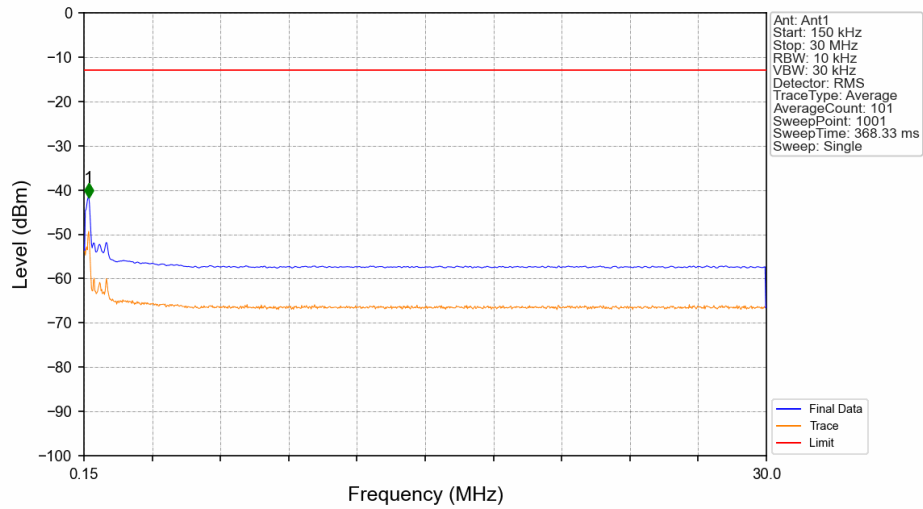
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-45.34	-13	Pass
1000	10000	1	/	2	1746.700	-32.81	-13	Pass

Band13_753.5MHz_AWGN_SISO_Ant1_NTNV



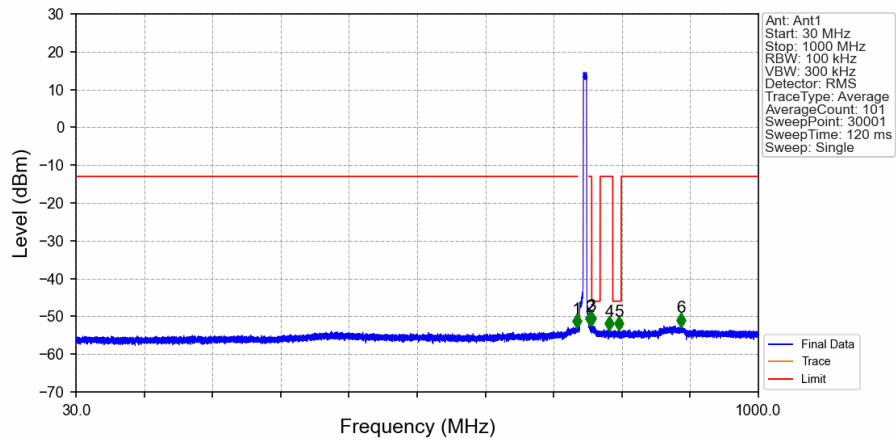
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	0.1	CHP	1	0.099	-41.99	-13	Pass

Band13_753.5MHz_AWGN_SISO_Ant1_NTNV



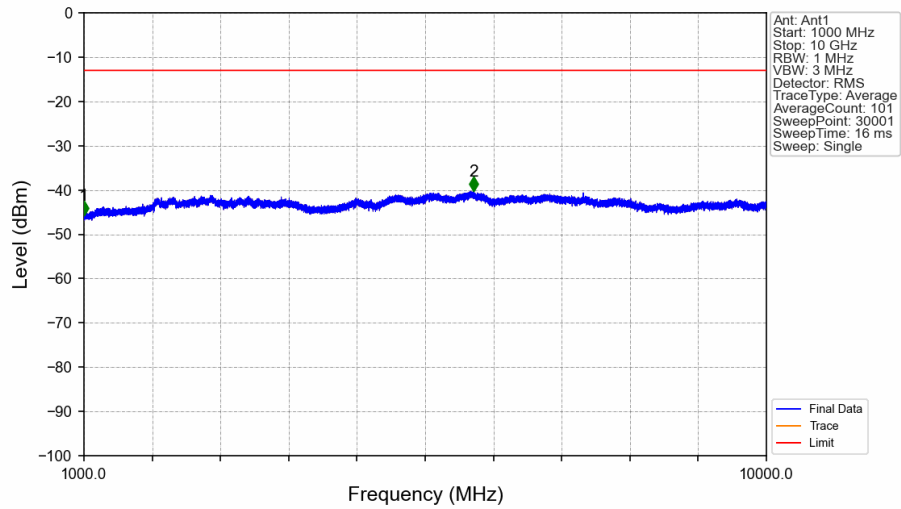
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	0.1	CHP	1	0.359	-41.64	-13	Pass

Band13_753.5MHz_AWGN_SISO_Ant1_NTNV



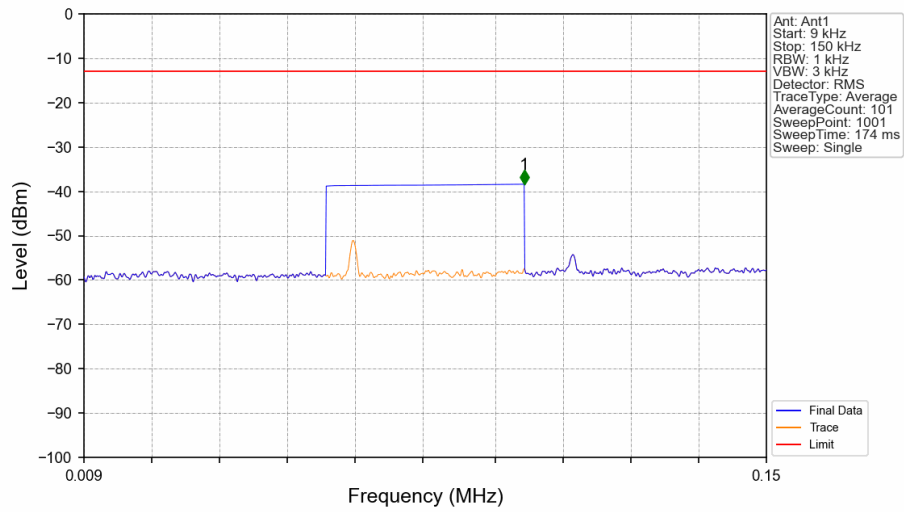
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	745.9	0.1	/	1	742.077	-52.85	-13	Pass
745.9	759.3	0.1	/	/	/	/	/	/
759.3	763	0.1	/	2	760.410	-52.12	-13	Pass
763	775	0.1	/	3	763.061	-52.04	-46	Pass
775	793	0.1	/	4	788.184	-53.45	-13	Pass
793	805	0.1	/	5	801.247	-53.40	-46	Pass
805	1000	0.1	/	6	889.808	-52.52	-13	Pass

Band13_753.5MHz_AWGN_SISO_Ant1_NTNV



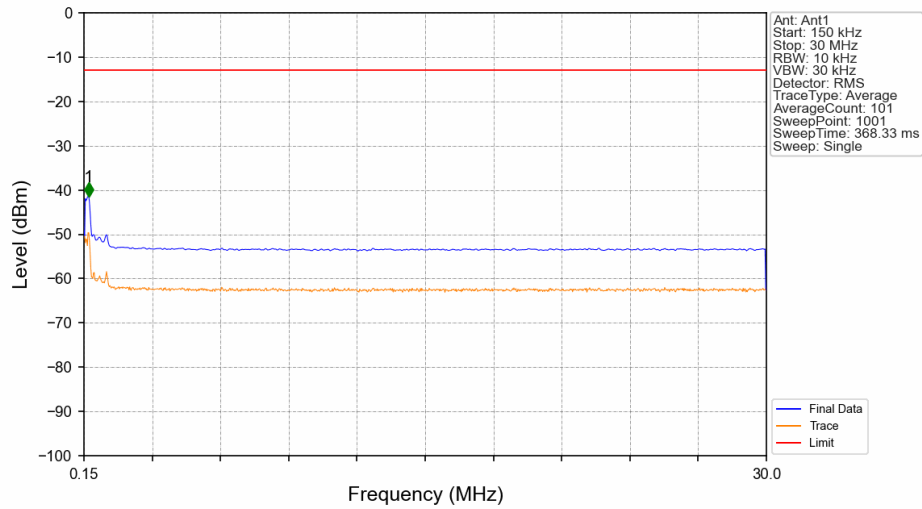
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-45.74	-13	Pass
1000	10000	1	/	2	6136.600	-40.17	-13	Pass

Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV



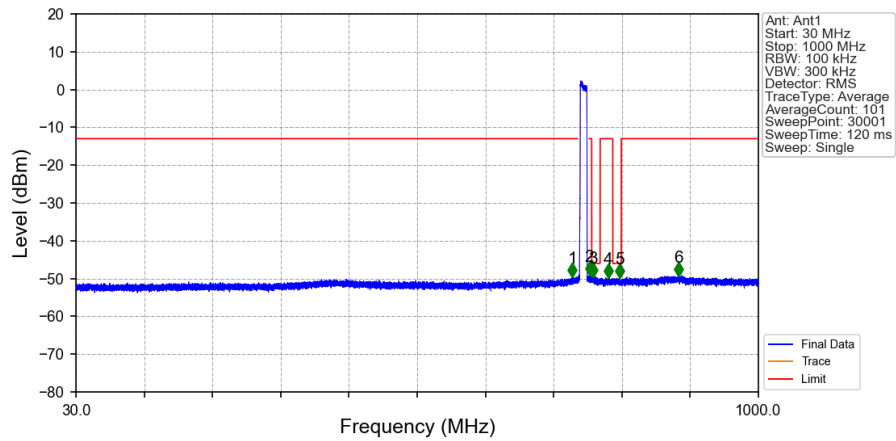
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	0.1	CHP	1	0.100	-38.40	-13	Pass

Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV



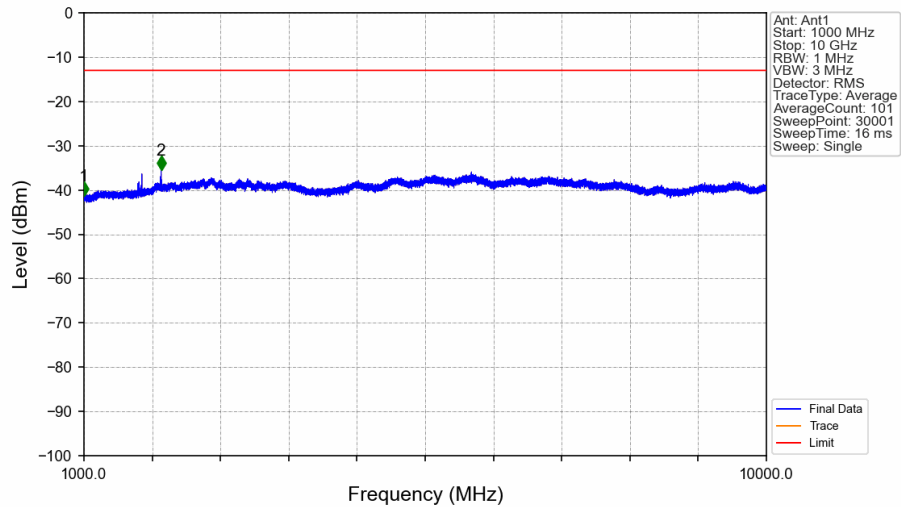
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	0.1	CHP	1	0.359	-41.39	-13	Pass

Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV



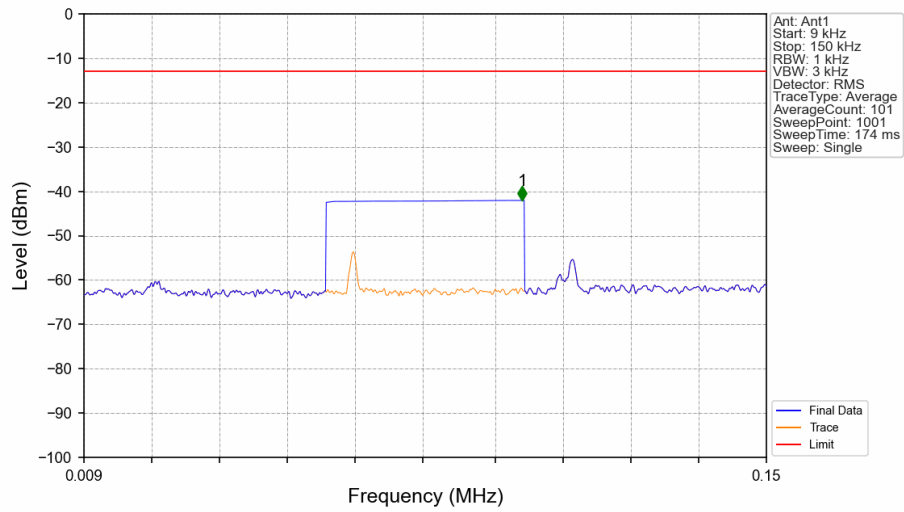
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	745.9	0.1	/	1	735.513	-49.38	-13	Pass
745.9	759.3	0.1	/	/	/	/	/	/
759.3	763	0.1	/	2	759.893	-48.99	-13	Pass
763	775	0.1	/	3	765.389	-49.42	-46	Pass
775	793	0.1	/	4	786.277	-49.58	-13	Pass
793	805	0.1	/	5	802.249	-49.62	-46	Pass
805	1000	0.1	/	6	885.993	-49.19	-13	Pass

Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV



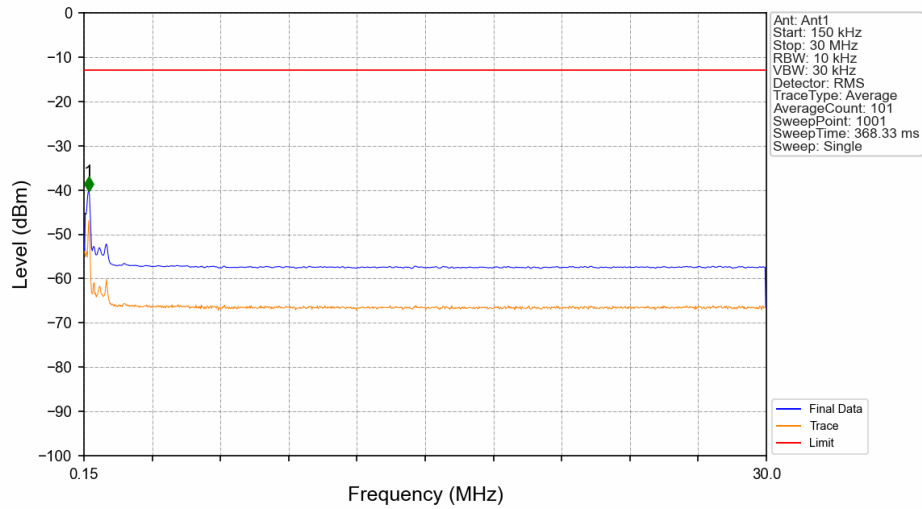
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-41.24	-13	Pass
1000	10000	1	/	2	2017.000	-35.49	-13	Pass

Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV



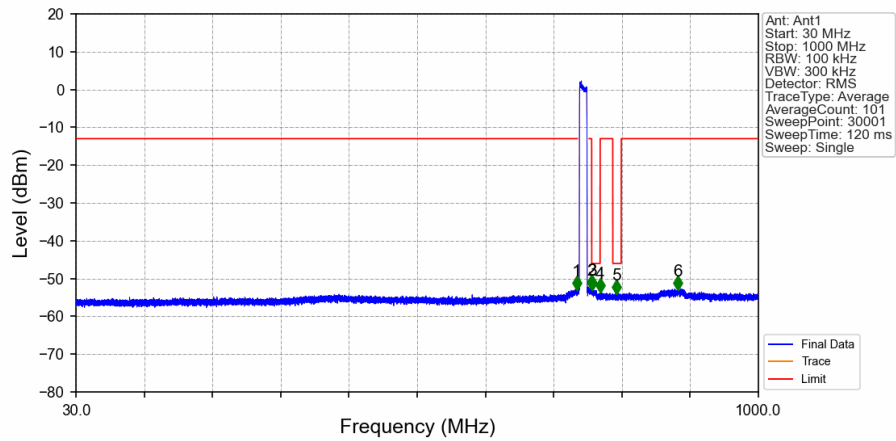
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	0.1	CHP	1	0.100	-42.05	-13	Pass

Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV



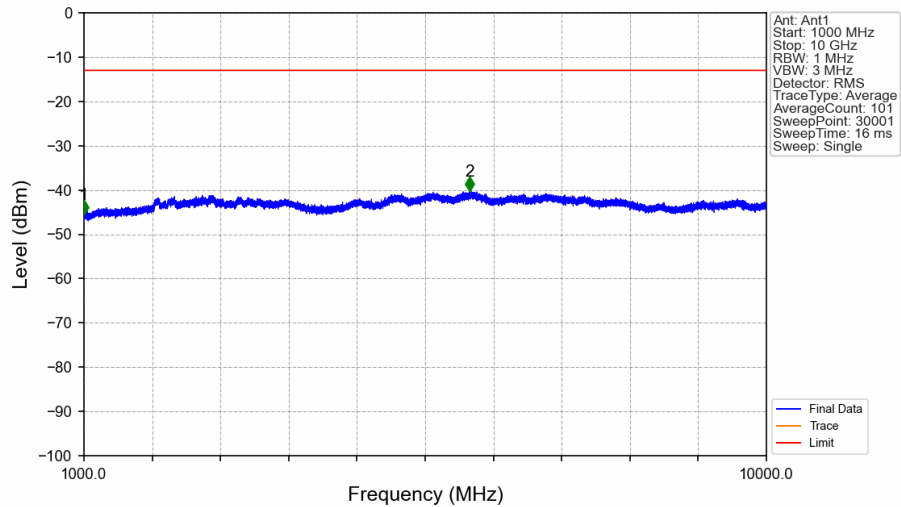
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	0.1	CHP	1	0.359	-40.14	-13	Pass

Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV



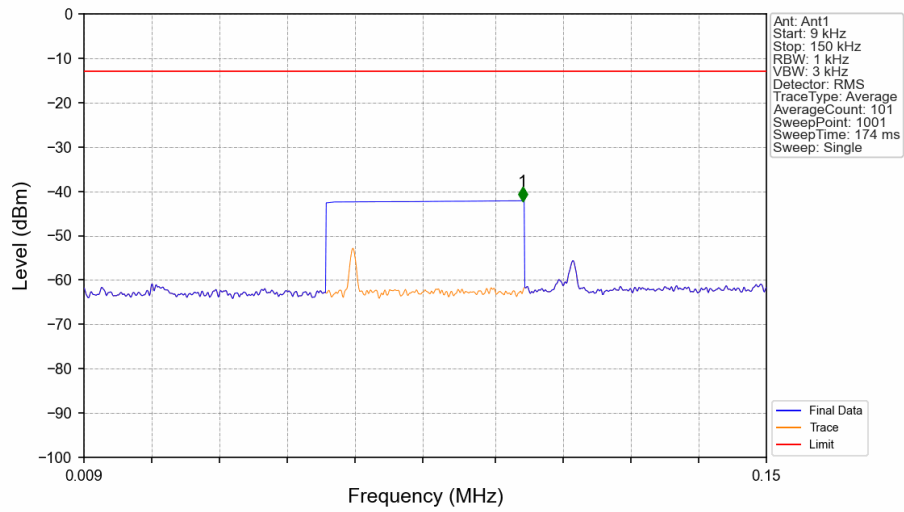
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	745.9	0.1	/	1	741.592	-52.76	-13	Pass
745.9	759.3	0.1	/	/	/	/	/	/
759.3	763	0.1	/	2	762.576	-52.62	-13	Pass
763	775	0.1	/	3	763.773	-52.64	-46	Pass
775	793	0.1	/	4	775.089	-53.46	-13	Pass
793	805	0.1	/	5	798.466	-53.89	-46	Pass
805	1000	0.1	/	6	885.314	-52.71	-13	Pass

Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV



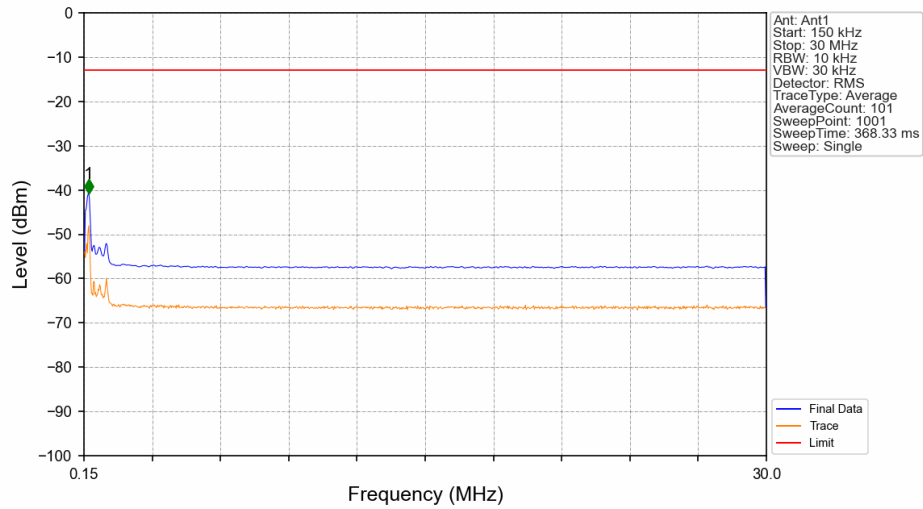
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-45.43	-13	Pass
1000	10000	1	/	2	6088.600	-40.16	-13	Pass

Band13_706MHz_Broad100MHz_SISO_Ant1_NTNV



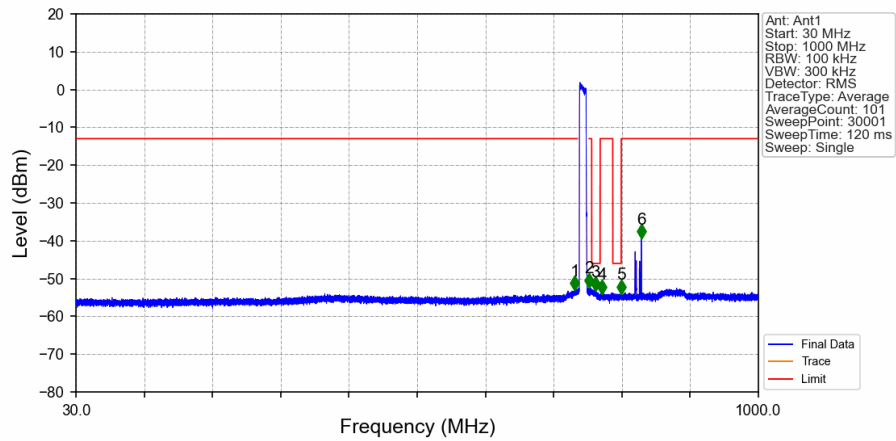
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	0.1	CHP	1	0.100	-42.13	-13	Pass

Band13_706MHz_Broad100MHz_SISO_Ant1_NTNV



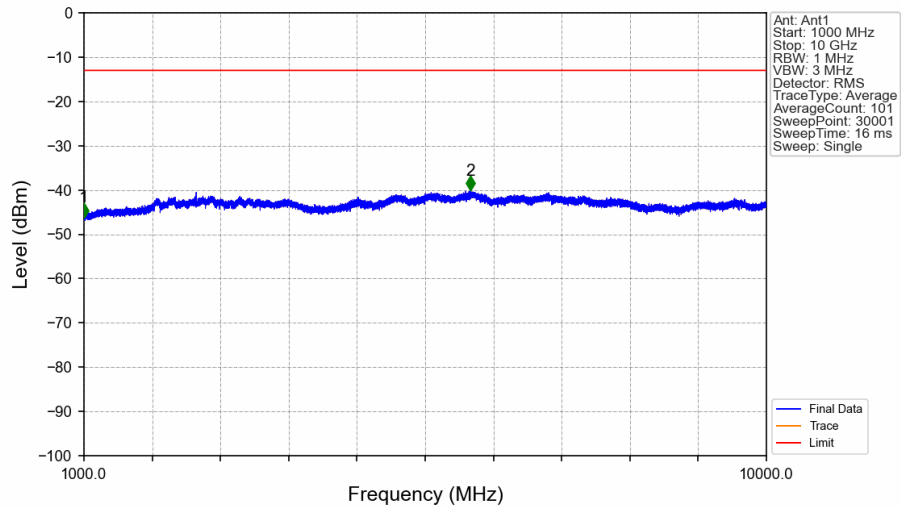
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	0.1	CHP	1	0.359	-40.75	-13	Pass

Band13_706MHz_Broad100MHz_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	745.9	0.1	/	1	739.038	-52.77	-13	Pass
745.9	759.3	0.1	/	/	/	/	/	/
759.3	763	0.1	/	2	759.472	-52.04	-13	Pass
763	775	0.1	/	3	768.590	-52.91	-46	Pass
775	793	0.1	/	4	777.870	-53.76	-13	Pass
793	805	0.1	/	5	804.901	-53.71	-46	Pass
805	1000	0.1	/	6	833.580	-39.08	-13	Pass

Band13_706MHz_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	-46.12	-13	Pass
1000	10000	1	/	2	6092.500	-40.03	-13	Pass

7. Frequency stability measurements

7.1 Test Result

7.1.1 Band13_Ant1

Band: 13 / NTNV							
Signal			Temp (°C)	Voltage (VAC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict
Type	Level (dBm)	Frequency (MHz)					
CW	-0.3	746.1	20	102	13	0.0174	Pass
				120	10	0.0134	Pass
				138	8	0.0107	Pass
			-40	120	9	0.0121	Pass
			-30	120	11	0.0147	Pass
			-20	120	13	0.0174	Pass
			-10	120	12	0.0161	Pass
			0	120	8	0.0107	Pass
			10	120	9	0.0121	Pass
			30	120	7	0.0094	Pass
			40	120	11	0.0147	Pass
			50	120	10	0.0134	Pass
			55	120	9	0.0121	Pass
		751	20	102	13	0.0173	Pass
				120	12	0.0160	Pass
				138	10	0.0133	Pass
			-40	120	9	0.0120	Pass
			-30	120	8	0.0107	Pass
			-20	120	11	0.0146	Pass
			-10	120	10	0.0133	Pass
			0	120	7	0.0093	Pass
			10	120	9	0.0120	Pass
			30	120	11	0.0146	Pass
			40	120	13	0.0173	Pass
			50	120	12	0.0160	Pass
			55	120	12	0.0160	Pass
		755.9	20	102	14	0.0185	Pass
				120	12	0.0159	Pass
				138	10	0.0132	Pass
			-40	120	8	0.0106	Pass
			-30	120	9	0.0119	Pass
			-20	120	11	0.0146	Pass
			-10	120	12	0.0159	Pass
			0	120	14	0.0185	Pass
			10	120	10	0.0132	Pass
			30	120	9	0.0119	Pass
			40	120	8	0.0106	Pass
			50	120	11	0.0149	Pass
			55	120	10	0.0132	Pass

9. Radiated Spurious Emissions

9.1 Band13_Ant1

9.1.1 Test Result

GMSK 746.2MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
91.704	Horizontal	-67.41	-13	-54.41	Pass
408.402	Horizontal	-70.93	-13	-57.93	Pass
784.835	Horizontal	-63.53	-13	-50.53	Pass
2216.280	Horizontal	-66.65	-13	-53.65	Pass
4004.920	Horizontal	-65.78	-13	-52.78	Pass
6013.000	Horizontal	-66.49	-13	-53.49	Pass
96.914	Vertical	-65.57	-13	-52.57	Pass
401.702	Vertical	-65.03	-13	-52.03	Pass
814.915	Vertical	-70.71	-13	-57.71	Pass
2222.400	Vertical	-64.32	-13	-51.32	Pass
4028.200	Vertical	-59.03	-13	-46.03	Pass
6014.370	Vertical	-63.83	-13	-50.83	Pass

GMSK 751MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
301.214	Horizontal	-64.80	-13	-50.46	Pass
394.892	Horizontal	-67.91	-13	-52.88	Pass
807.725	Horizontal	-68.95	-13	-52.20	Pass
2396.600	Horizontal	-60.52	-13	-48.73	Pass
4179.300	Horizontal	-63.38	-13	-53.10	Pass
6022.690	Horizontal	-67.60	-13	-50.91	Pass
143.914	Vertical	-61.68	-13	-48.68	Pass
368.212	Vertical	-67.57	-13	-54.57	Pass
797.375	Vertical	-64.28	-13	-51.28	Pass
2210.000	Vertical	-62.10	-13	-49.10	Pass
4029.700	Vertical	-65.33	-13	-52.33	Pass
5978.060	Vertical	-68.14	-13	-55.14	Pass

GMSK 755.8MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
233.114	Horizontal	-61.54	-13	-48.54	Pass
371.292	Horizontal	-65.47	-13	-52.47	Pass
811.135	Horizontal	-67.75	-13	-54.75	Pass
2261.500	Horizontal	-64.64	-13	-51.64	Pass
3915.200	Horizontal	-61.72	-13	-48.72	Pass
6011.810	Horizontal	-65.17	-13	-52.17	Pass
314.114	Vertical	-66.59	-13	-53.59	Pass
395.872	Vertical	-65.97	-13	-52.97	Pass
819.835	Vertical	-68.10	-13	-55.10	Pass
2046.900	Vertical	-61.72	-13	-48.72	Pass
4065.300	Vertical	-61.67	-13	-48.67	Pass
5996.580	Vertical	-67.83	-13	-54.83	Pass

AWGN 748.5MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
69.214	Horizontal	-65.93	-13	-52.93	Pass
410.652	Horizontal	-70.00	-13	-57.00	Pass
794.225	Horizontal	-66.16	-13	-53.16	Pass
1983.400	Horizontal	-64.06	-13	-51.06	Pass
4025.700	Horizontal	-64.75	-13	-51.75	Pass
6023.650	Horizontal	-65.21	-13	-52.21	Pass
184.914	Vertical	-66.34	-13	-53.34	Pass
398.672	Vertical	-66.57	-13	-53.57	Pass
782.885	Vertical	-64.77	-13	-51.77	Pass
2069.000	Vertical	-60.88	-13	-47.88	Pass
3929.800	Vertical	-63.98	-13	-50.98	Pass
5990.740	Vertical	-66.07	-13	-53.07	Pass

AWGN 751MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
243.914	Horizontal	-67.15	-13	-54.15	Pass
387.592	Horizontal	-69.55	-13	-56.55	Pass
789.315	Horizontal	-69.09	-13	-56.09	Pass
2234.800	Horizontal	-63.76	-13	-50.76	Pass
4020.800	Horizontal	-61.24	-13	-48.24	Pass
5975.090	Horizontal	-67.05	-13	-54.05	Pass
91.904	Vertical	-61.55	-13	-48.55	Pass
387.942	Vertical	-67.41	-13	-54.41	Pass
801.955	Vertical	-67.23	-13	-54.23	Pass
2593.900	Vertical	-66.57	-13	-53.57	Pass
3796.300	Vertical	-62.56	-13	-49.56	Pass
5843.910	Vertical	-68.39	-13	-55.39	Pass

AWGN 753.5MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
111.834	Horizontal	-67.28	-13	-54.28	Pass
398.642	Horizontal	-70.28	-13	-57.28	Pass
784.355	Horizontal	-63.62	-13	-50.62	Pass
2484.300	Horizontal	-61.62	-13	-48.62	Pass
3752.900	Horizontal	-61.53	-13	-48.53	Pass
4930.840	Horizontal	-66.75	-13	-53.75	Pass
117.824	Vertical	-61.79	-13	-48.79	Pass
411.222	Vertical	-66.77	-13	-53.77	Pass
777.675	Vertical	-64.78	-13	-51.78	Pass
2413.000	Vertical	-60.30	-13	-47.30	Pass
4409.200	Vertical	-59.14	-13	-46.14	Pass
6006.320	Vertical	-65.31	-13	-52.31	Pass

100M 796MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
101.584	Horizontal	-65.52	-13	-52.52	Pass
363.562	Horizontal	-66.56	-13	-53.56	Pass
786.495	Horizontal	-70.24	-13	-57.24	Pass
2369.200	Horizontal	-66.96	-13	-53.96	Pass
3685.700	Horizontal	-59.49	-13	-46.49	Pass
5770.210	Horizontal	-68.65	-13	-55.65	Pass
118.574	Vertical	-69.04	-13	-56.04	Pass
398.362	Vertical	-67.14	-13	-54.14	Pass
779.015	Vertical	-69.97	-13	-56.97	Pass
2612.400	Vertical	-66.14	-13	-53.14	Pass
4206.700	Vertical	-63.28	-13	-50.28	Pass
5650.230	Vertical	-62.99	-13	-49.99	Pass

100M 751MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
77.684	Horizontal	-62.38	-13	-49.38	Pass
404.882	Horizontal	-65.54	-13	-52.54	Pass
805.395	Horizontal	-64.16	-13	-51.16	Pass
2215.800	Horizontal	-64.96	-13	-51.96	Pass
4324.900	Horizontal	-65.78	-13	-52.78	Pass
6210.030	Horizontal	-63.71	-13	-50.71	Pass
82.154	Vertical	-62.08	-13	-49.08	Pass
410.942	Vertical	-66.62	-13	-53.62	Pass
805.495	Vertical	-63.84	-13	-50.84	Pass
1766.300	Vertical	-67.62	-13	-54.62	Pass
3815.800	Vertical	-58.76	-13	-45.76	Pass
4872.780	Vertical	-66.34	-13	-53.34	Pass

100M 706MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
96.014	Horizontal	-67.00	-13	-54.00	Pass
381.702	Horizontal	-65.85	-13	-52.85	Pass
810.725	Horizontal	-66.25	-13	-53.25	Pass
2001.900	Horizontal	-67.00	-13	-54.00	Pass
4120.600	Horizontal	-62.53	-13	-49.53	Pass
5154.550	Horizontal	-62.45	-13	-49.45	Pass
116.194	Vertical	-66.97	-13	-53.97	Pass
392.582	Vertical	-68.03	-13	-55.03	Pass
807.505	Vertical	-62.80	-13	-49.80	Pass
1840.300	Vertical	-63.61	-13	-50.61	Pass
3551.200	Vertical	-62.42	-13	-49.42	Pass
6590.210	Vertical	-66.68	-13	-53.68	Pass