

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B13_5MHz_ERP

Band: 13 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	779.5	1	0	24.93	-3.50	19.28	<=34.77	Pass
			13	24.82	-3.50	19.17	<=34.77	Pass
			24	24.96	-3.50	19.31	<=34.77	Pass
		12	0	24.05	-3.50	18.40	<=34.77	Pass
			6	24.21	-3.50	18.56	<=34.77	Pass
			13	24.19	-3.50	18.54	<=34.77	Pass
		25	0	24.15	-3.50	18.50	<=34.77	Pass
	782	1	0	24.93	-3.50	19.28	<=34.77	Pass
			13	24.80	-3.50	19.15	<=34.77	Pass
			24	24.95	-3.50	19.30	<=34.77	Pass
		12	0	24.16	-3.50	18.51	<=34.77	Pass
			6	24.29	-3.50	18.64	<=34.77	Pass
			13	24.21	-3.50	18.56	<=34.77	Pass
		25	0	24.19	-3.50	18.54	<=34.77	Pass
	784.5	1	0	24.91	-3.50	19.26	<=34.77	Pass
			13	24.86	-3.50	19.21	<=34.77	Pass
			24	24.97	-3.50	19.32	<=34.77	Pass
		12	0	24.25	-3.50	18.60	<=34.77	Pass
			6	24.34	-3.50	18.69	<=34.77	Pass
			13	24.33	-3.50	18.68	<=34.77	Pass
		25	0	24.28	-3.50	18.63	<=34.77	Pass
16QAM	779.5	1	0	23.99	-3.50	18.34	<=34.77	Pass
			13	24.14	-3.50	18.49	<=34.77	Pass
			24	24.02	-3.50	18.37	<=34.77	Pass
		12	0	23.05	-3.50	17.40	<=34.77	Pass
			6	23.19	-3.50	17.54	<=34.77	Pass
			13	23.19	-3.50	17.54	<=34.77	Pass
		25	0	23.21	-3.50	17.56	<=34.77	Pass
	782	1	0	24.37	-3.50	18.72	<=34.77	Pass
			13	24.54	-3.50	18.89	<=34.77	Pass
			24	24.38	-3.50	18.73	<=34.77	Pass
		12	0	23.17	-3.50	17.52	<=34.77	Pass
			6	23.32	-3.50	17.67	<=34.77	Pass
			13	23.26	-3.50	17.61	<=34.77	Pass
		25	0	23.20	-3.50	17.55	<=34.77	Pass
	784.5	1	0	24.27	-3.50	18.62	<=34.77	Pass
			13	24.46	-3.50	18.81	<=34.77	Pass
			24	24.39	-3.50	18.74	<=34.77	Pass
		12	0	23.21	-3.50	17.56	<=34.77	Pass
			6	23.29	-3.50	17.64	<=34.77	Pass
			13	23.28	-3.50	17.63	<=34.77	Pass
		25	0	23.29	-3.50	17.64	<=34.77	Pass
64QAM	779.5	1	0	23.07	-3.50	17.42	<=34.77	Pass
			13	23.19	-3.50	17.54	<=34.77	Pass
			24	23.13	-3.50	17.48	<=34.77	Pass
		12	0	22.14	-3.50	16.49	<=34.77	Pass
			6	22.25	-3.50	16.60	<=34.77	Pass
			13	22.25	-3.50	16.60	<=34.77	Pass
		25	0	22.15	-3.50	16.50	<=34.77	Pass

	782	1	0	23.48	-3.50	17.83	<=34.77	Pass	
			13	23.66	-3.50	18.01	<=34.77	Pass	
			24	23.54	-3.50	17.89	<=34.77	Pass	
		12	0	22.13	-3.50	16.48	<=34.77	Pass	
			6	22.25	-3.50	16.60	<=34.77	Pass	
			13	22.13	-3.50	16.48	<=34.77	Pass	
		25	0	22.24	-3.50	16.59	<=34.77	Pass	
		784.5	1	0	23.41	-3.50	17.76	<=34.77	Pass
				13	23.67	-3.50	18.02	<=34.77	Pass
	24			23.52	-3.50	17.87	<=34.77	Pass	
	12		0	22.33	-3.50	16.68	<=34.77	Pass	
			6	22.42	-3.50	16.77	<=34.77	Pass	
			13	22.38	-3.50	16.73	<=34.77	Pass	
	25	0	22.32	-3.50	16.67	<=34.77	Pass		
	Note1: ERP=Conducted Power+Antenna Gain-2.15								

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B13_10MHz_ERP

Band: 13 / Bandwidth: 10MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	782	1	0	24.98	-3.50	19.33	<=34.77	Pass
			25	24.83	-3.50	19.18	<=34.77	Pass
			49	24.82	-3.50	19.17	<=34.77	Pass
		25	0	24.05	-3.50	18.40	<=34.77	Pass
			13	24.32	-3.50	18.67	<=34.77	Pass
			25	24.24	-3.50	18.59	<=34.77	Pass
		50	0	24.15	-3.50	18.50	<=34.77	Pass
16QAM	782	1	0	24.68	-3.50	19.03	<=34.77	Pass
			25	24.79	-3.50	19.14	<=34.77	Pass
			49	24.86	-3.50	19.21	<=34.77	Pass
		25	0	23.11	-3.50	17.46	<=34.77	Pass
			13	23.35	-3.50	17.70	<=34.77	Pass
			25	23.30	-3.50	17.65	<=34.77	Pass
		50	0	23.17	-3.50	17.52	<=34.77	Pass
64QAM	782	1	0	23.51	-3.50	17.86	<=34.77	Pass
			25	23.59	-3.50	17.94	<=34.77	Pass
			49	23.62	-3.50	17.97	<=34.77	Pass
		25	0	22.14	-3.50	16.49	<=34.77	Pass
			13	22.35	-3.50	16.70	<=34.77	Pass
			25	22.25	-3.50	16.60	<=34.77	Pass
		50	0	22.20	-3.50	16.55	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B13_10MHz

Band: 13 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	782	50	0	20	LV	-1.449	-0.0019	-2.5 to 2.5	Pass
					NV	0.327	0.0004	-2.5 to 2.5	Pass
					HV	-4.231	-0.0054	-2.5 to 2.5	Pass
				-30	NV	-2.833	-0.0036	-2.5 to 2.5	Pass
				-20	NV	1.175	0.0015	-2.5 to 2.5	Pass
				-10	NV	-0.121	-0.0002	-2.5 to 2.5	Pass
				0	NV	0.296	0.0004	-2.5 to 2.5	Pass
				10	NV	-3.781	-0.0048	-2.5 to 2.5	Pass
				30	NV	1.345	0.0017	-2.5 to 2.5	Pass
				40	NV	-3.190	-0.0041	-2.5 to 2.5	Pass
				50	NV	0.618	0.0008	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band13_OBW

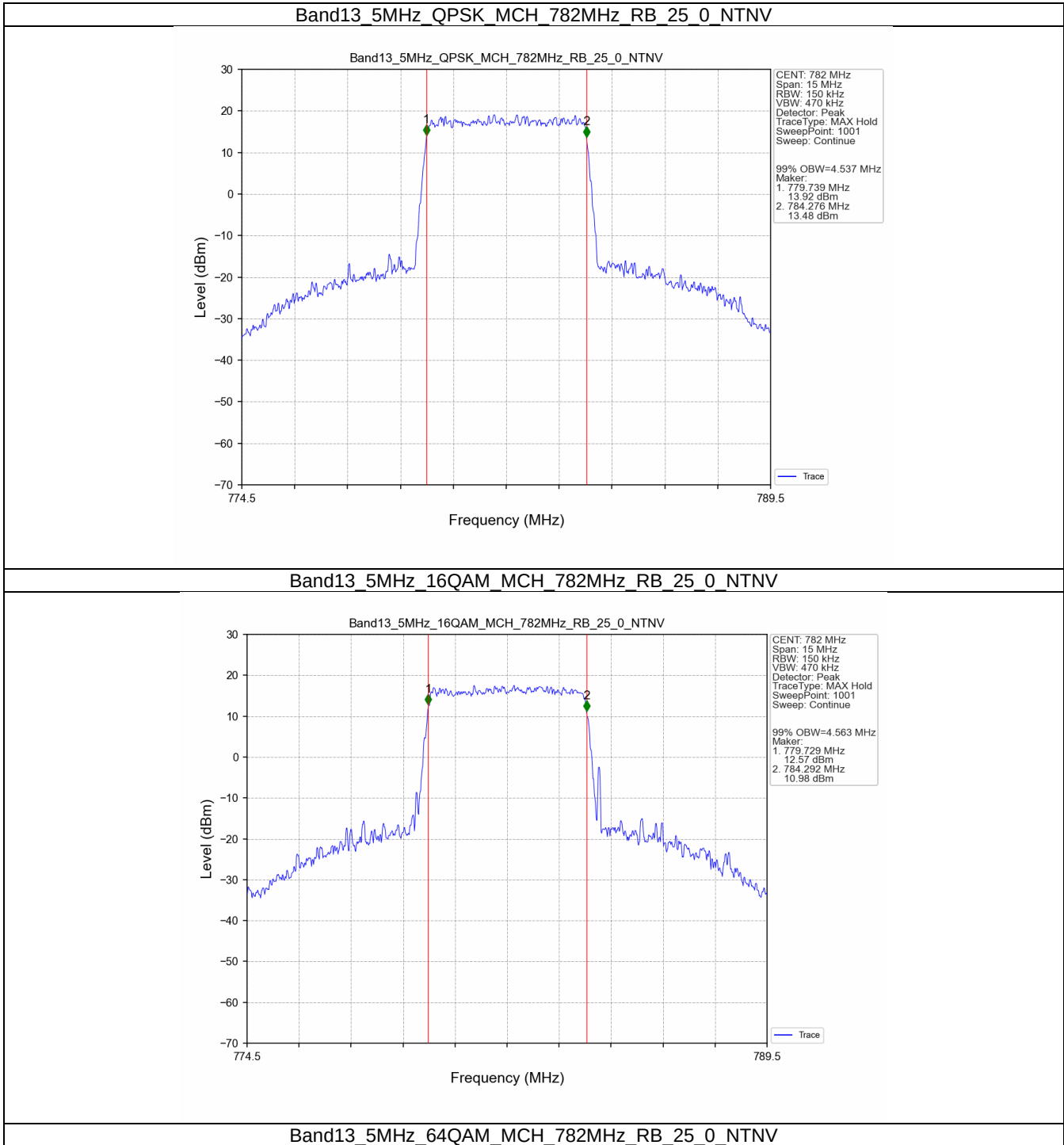
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	4.537	/	Pass
	16QAM	782	25	0	4.563	/	Pass
	64QAM	782	25	0	4.551	/	Pass
10	QPSK	782	50	0	9.027	/	Pass
	16QAM	782	50	0	9.010	/	Pass
	64QAM	782	50	0	9.018	/	Pass

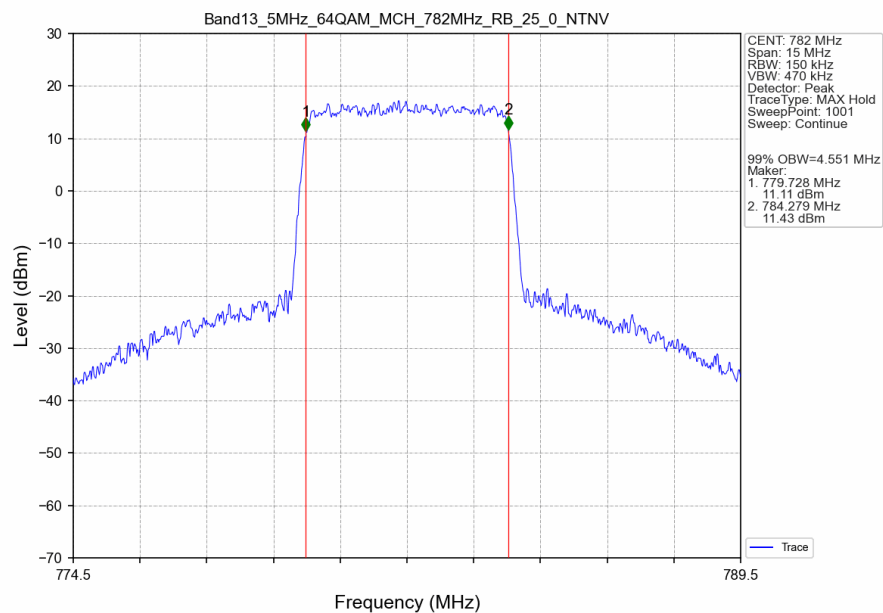
3.1.2 Band13_XDB

Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	4.995	/	Pass
	16QAM	782	25	0	5.202	/	Pass
	64QAM	782	25	0	4.993	/	Pass
10	QPSK	782	50	0	9.897	/	Pass
	16QAM	782	50	0	9.812	/	Pass
	64QAM	782	50	0	9.888	/	Pass

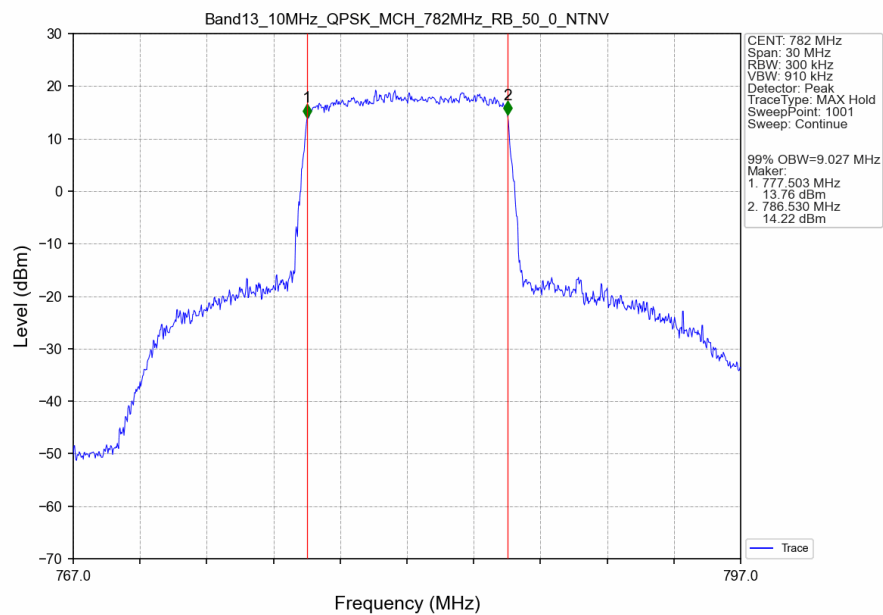
3.2 Test Graph

3.2.1 Band13_OBW

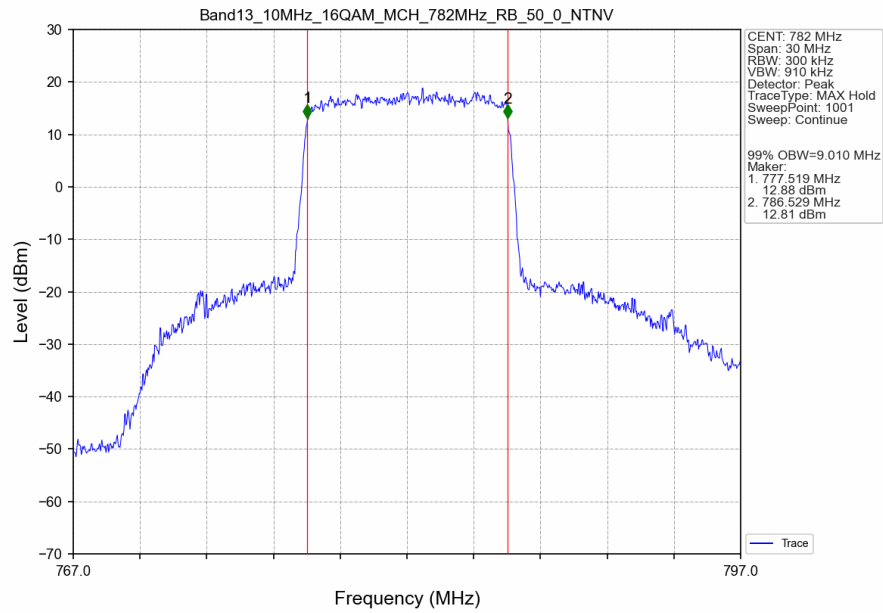




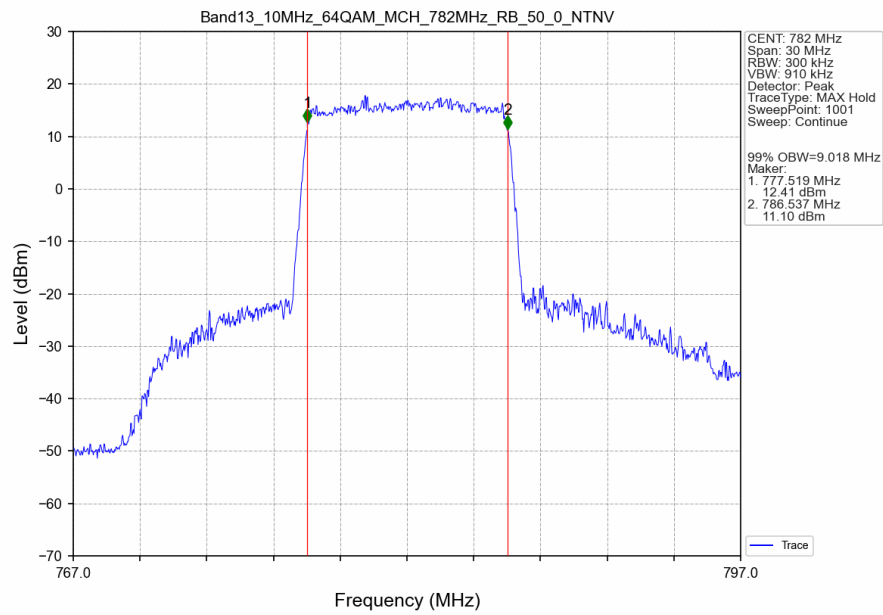
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



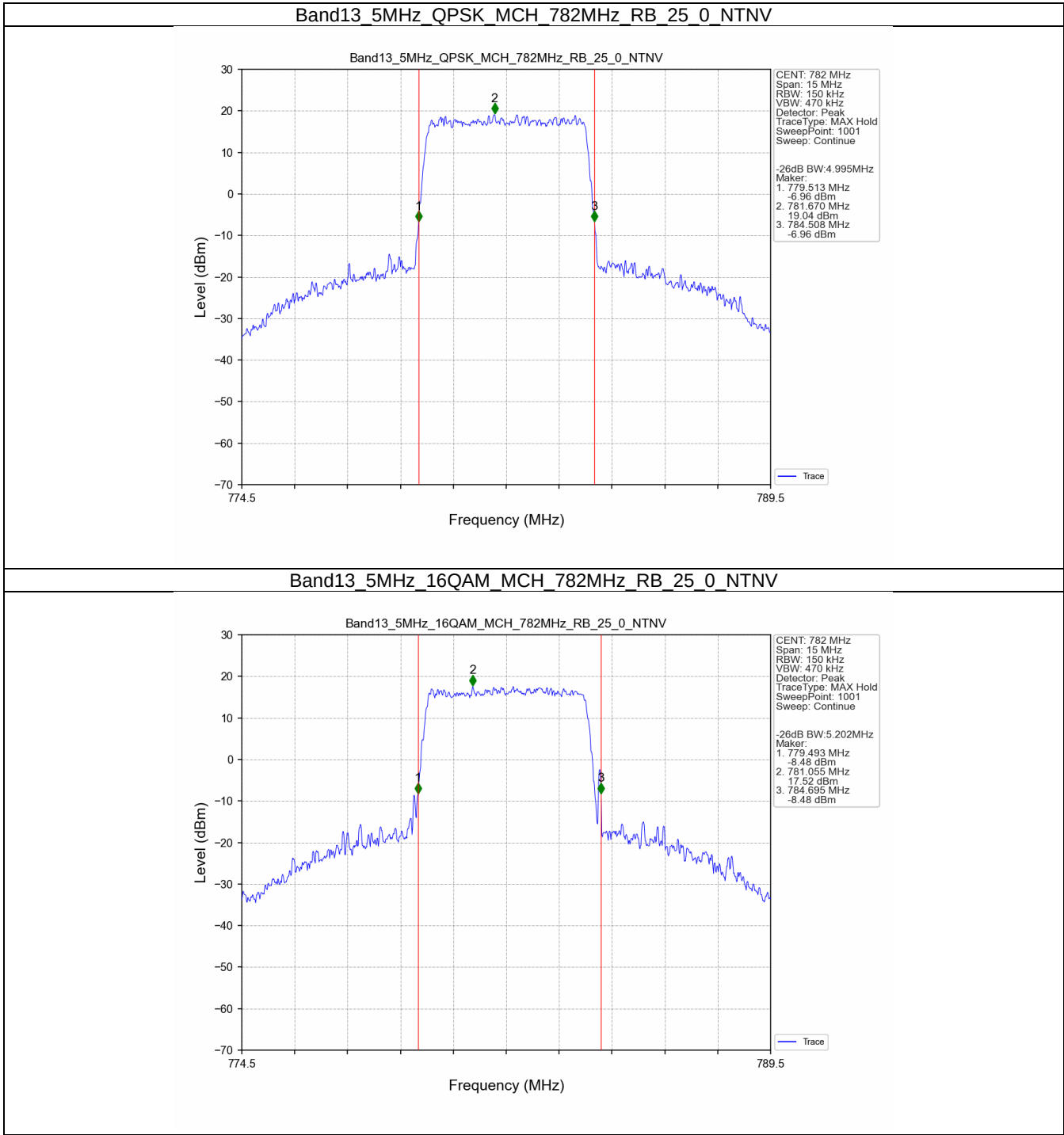
Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



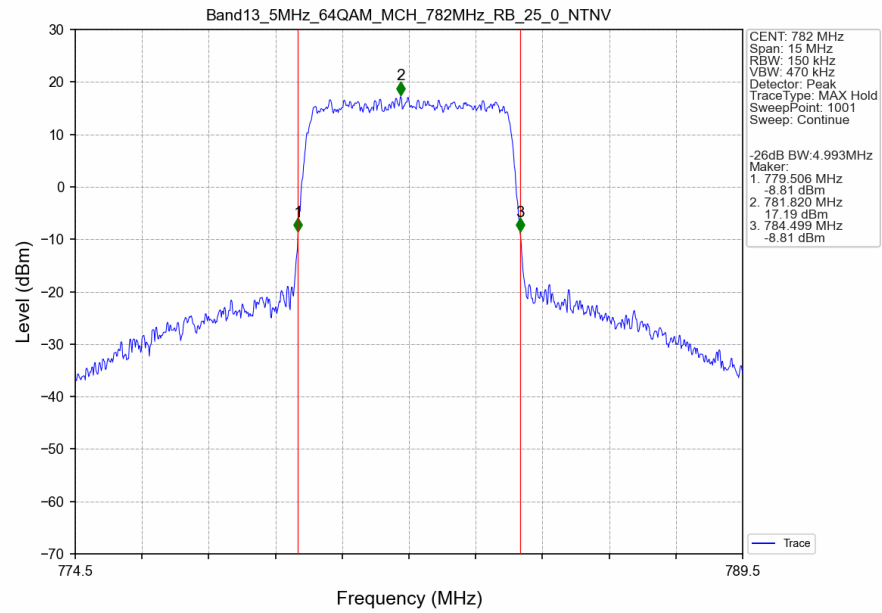
Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



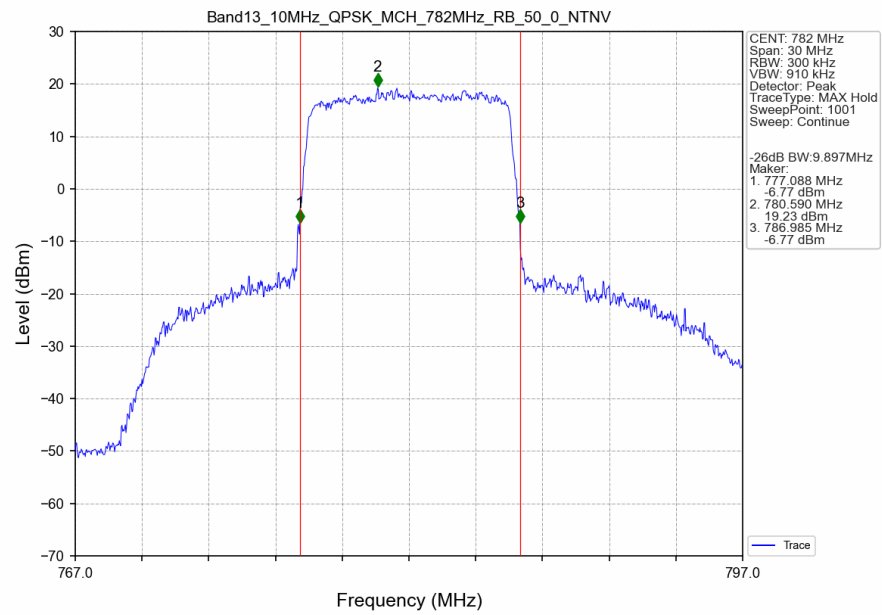
3.2.2 Band13_XDB



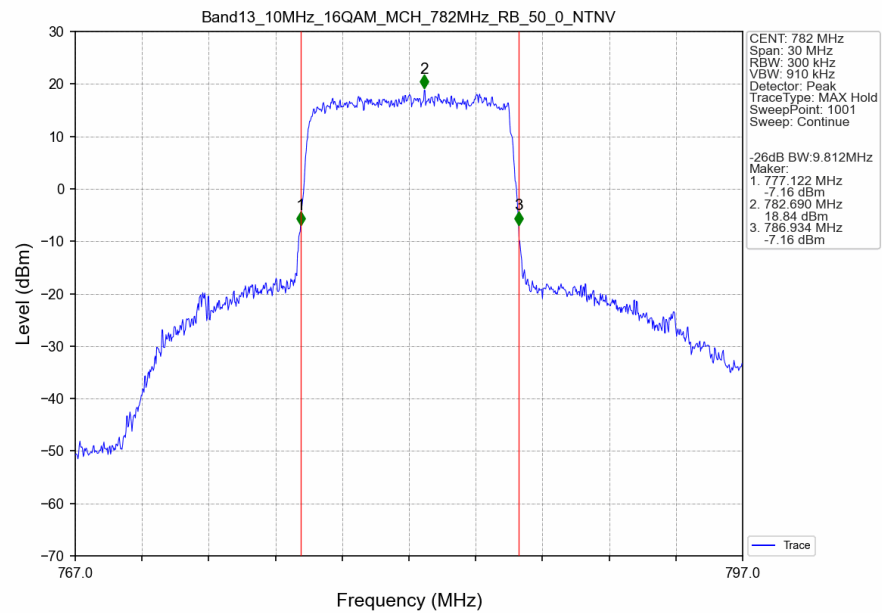
Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



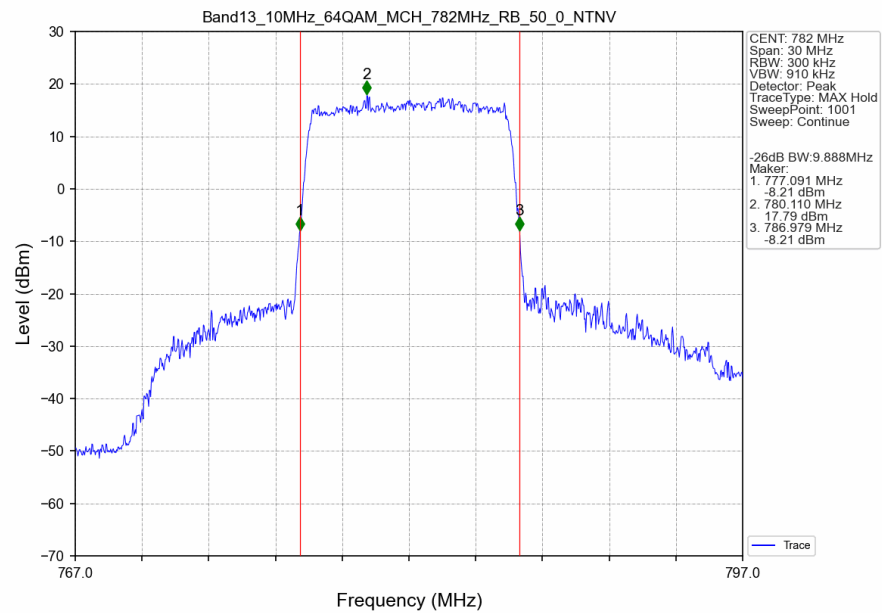
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



4. Peak-Average Ratio

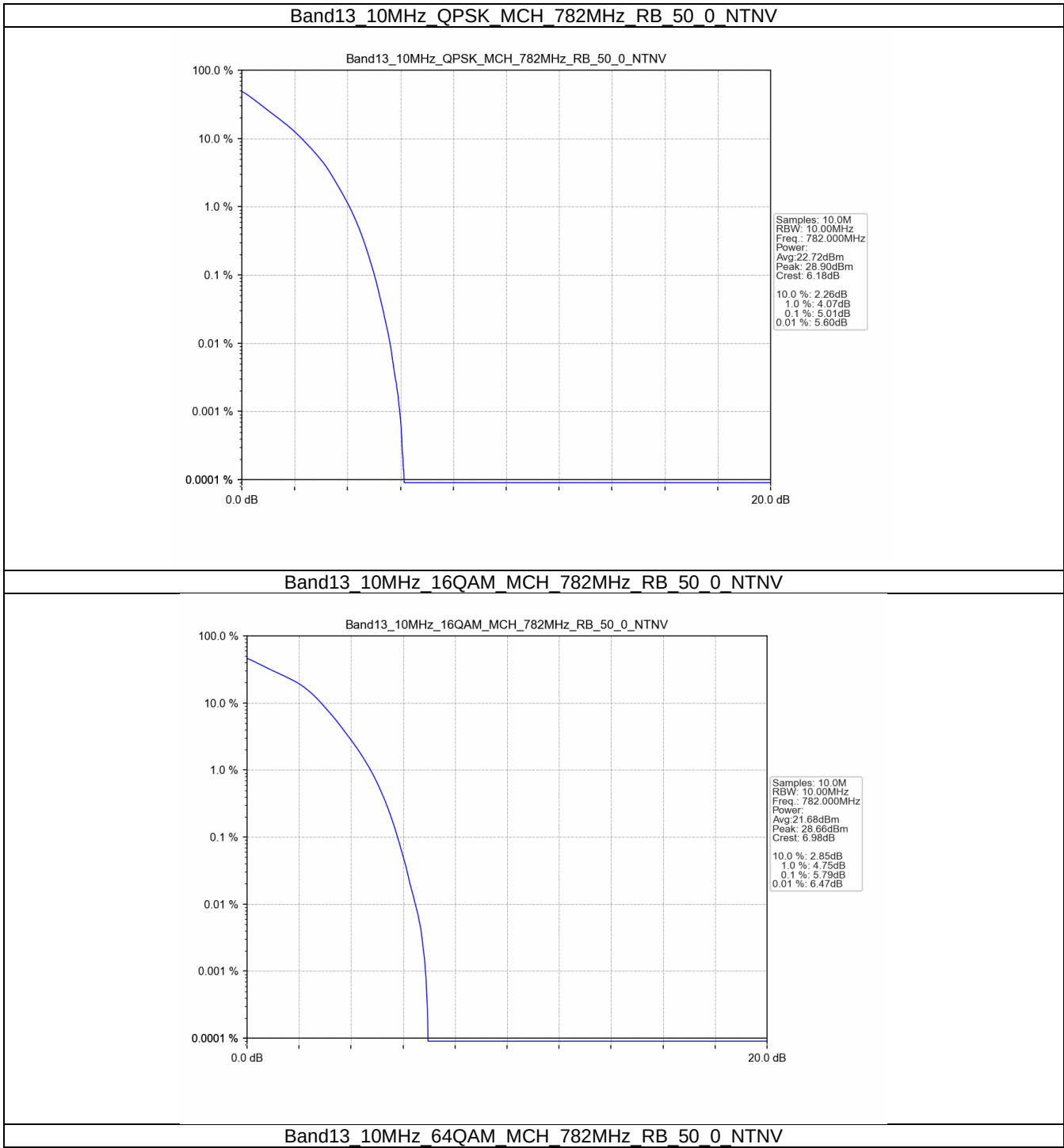
4.1 Test Result

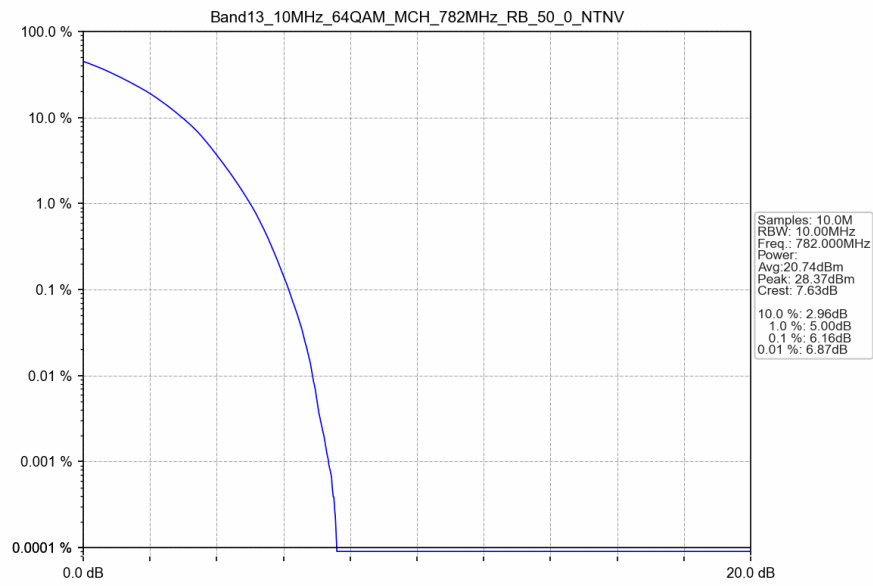
4.1.1 B13_10MHz

Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.01	<=13	Pass
16QAM	782	50	0	5.79	<=13	Pass
64QAM	782	50	0	6.16	<=13	Pass

4.2 Test Graph

4.2.1 B13_10MHz





5. Spurious Emission

5.1 Test Result

5.1.1 B13_5MHz

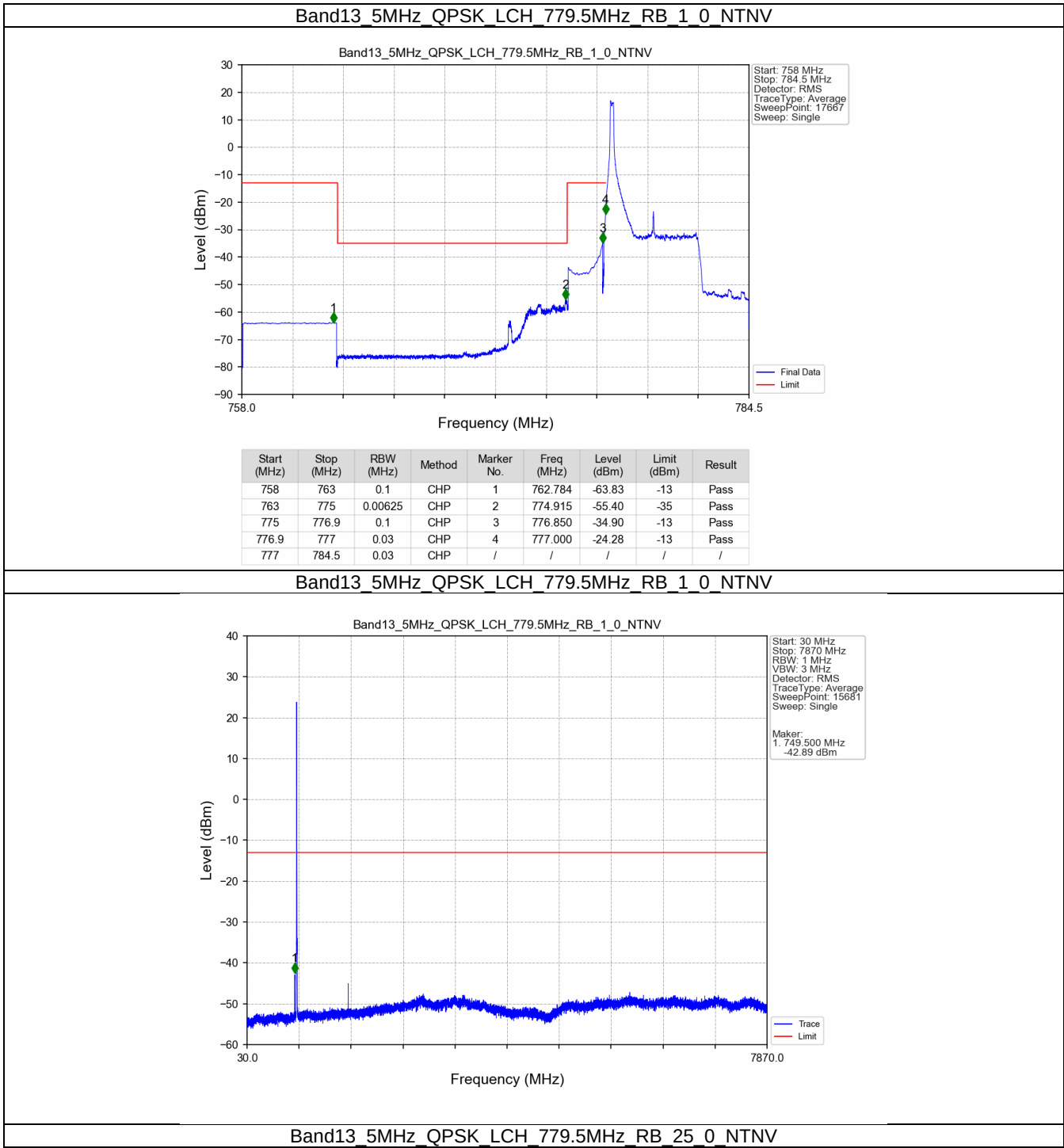
Band: 13 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
		784.5	1	0	Refer To Test Graph	
	24			Refer To Test Graph		Pass
	25		0	Refer To Test Graph		Pass

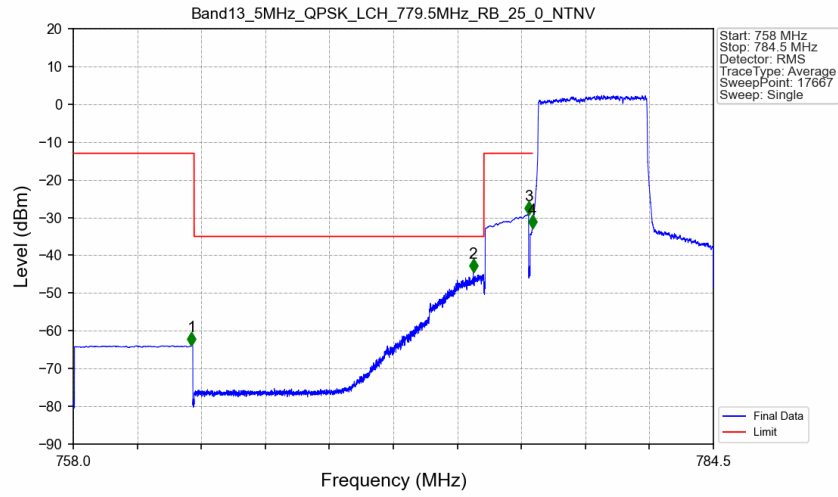
5.1.2 B13_10MHz

Band: 13 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

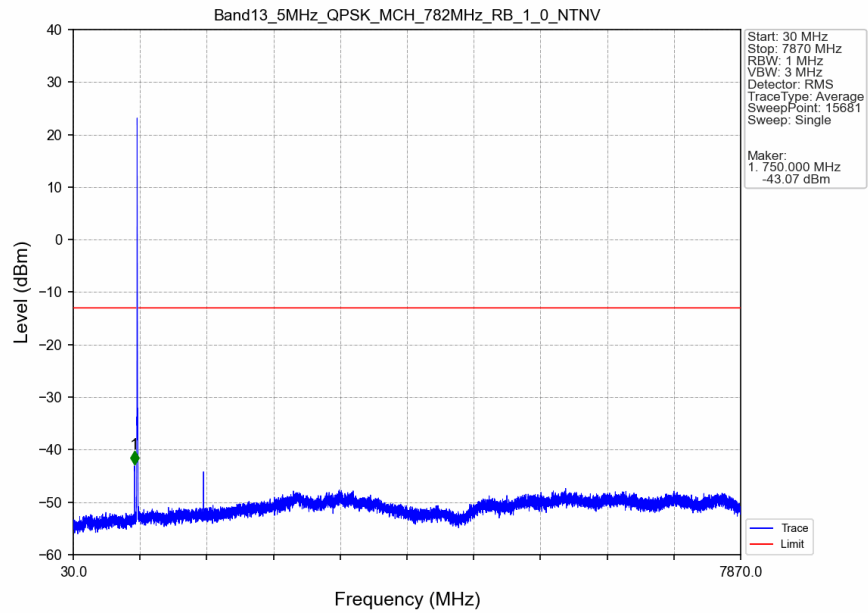
5.2 Test Graph

5.2.1 B13_5MHz

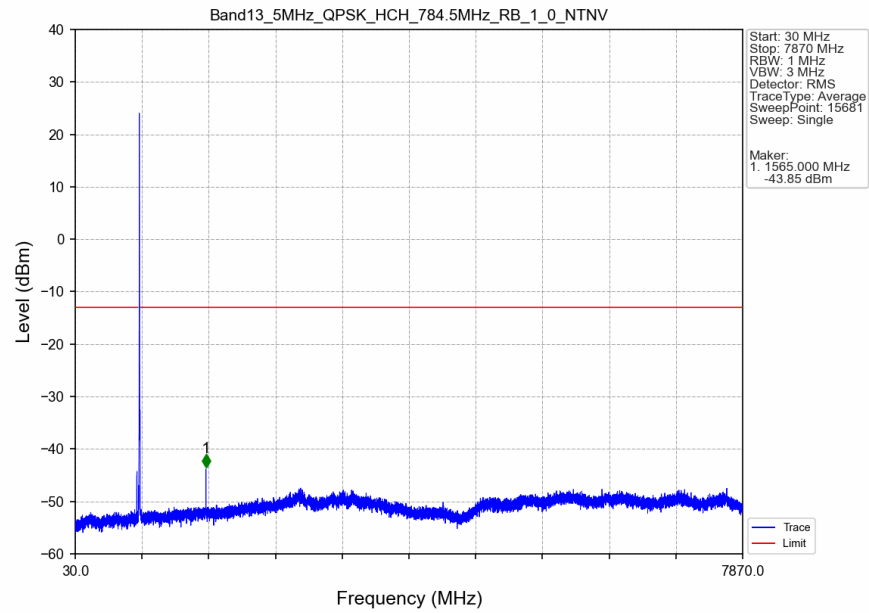




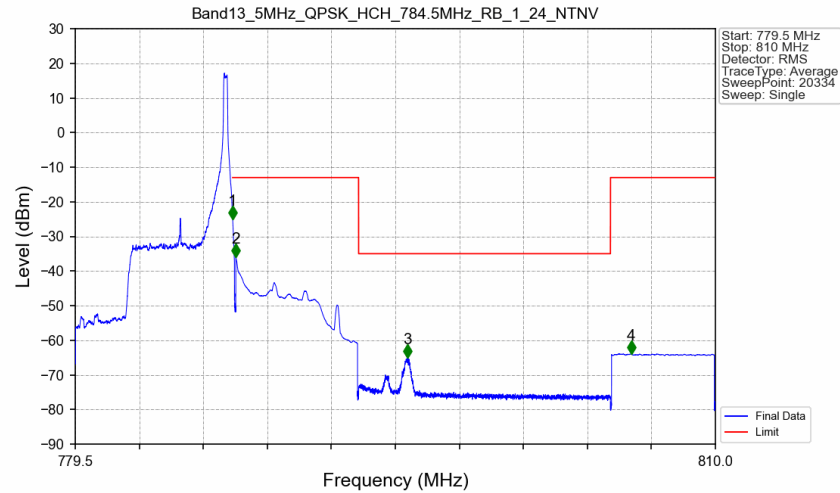
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTV

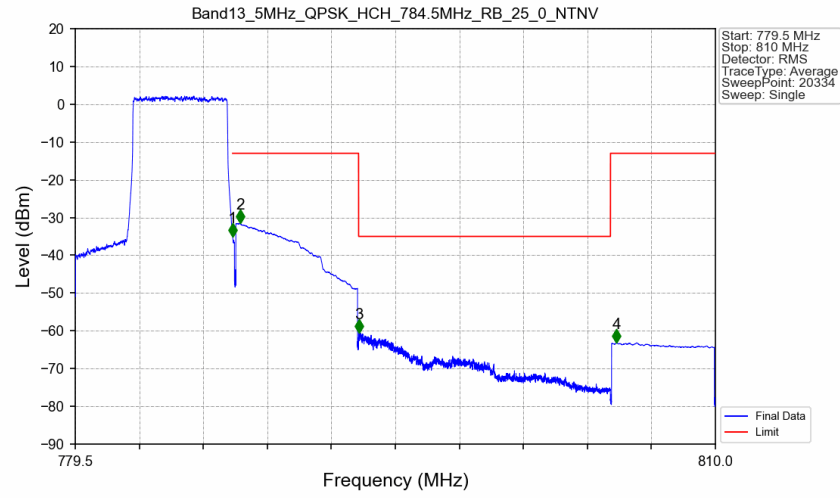


Band13 5MHz QPSK HCH 784.5MHz RB 1 24 NTV



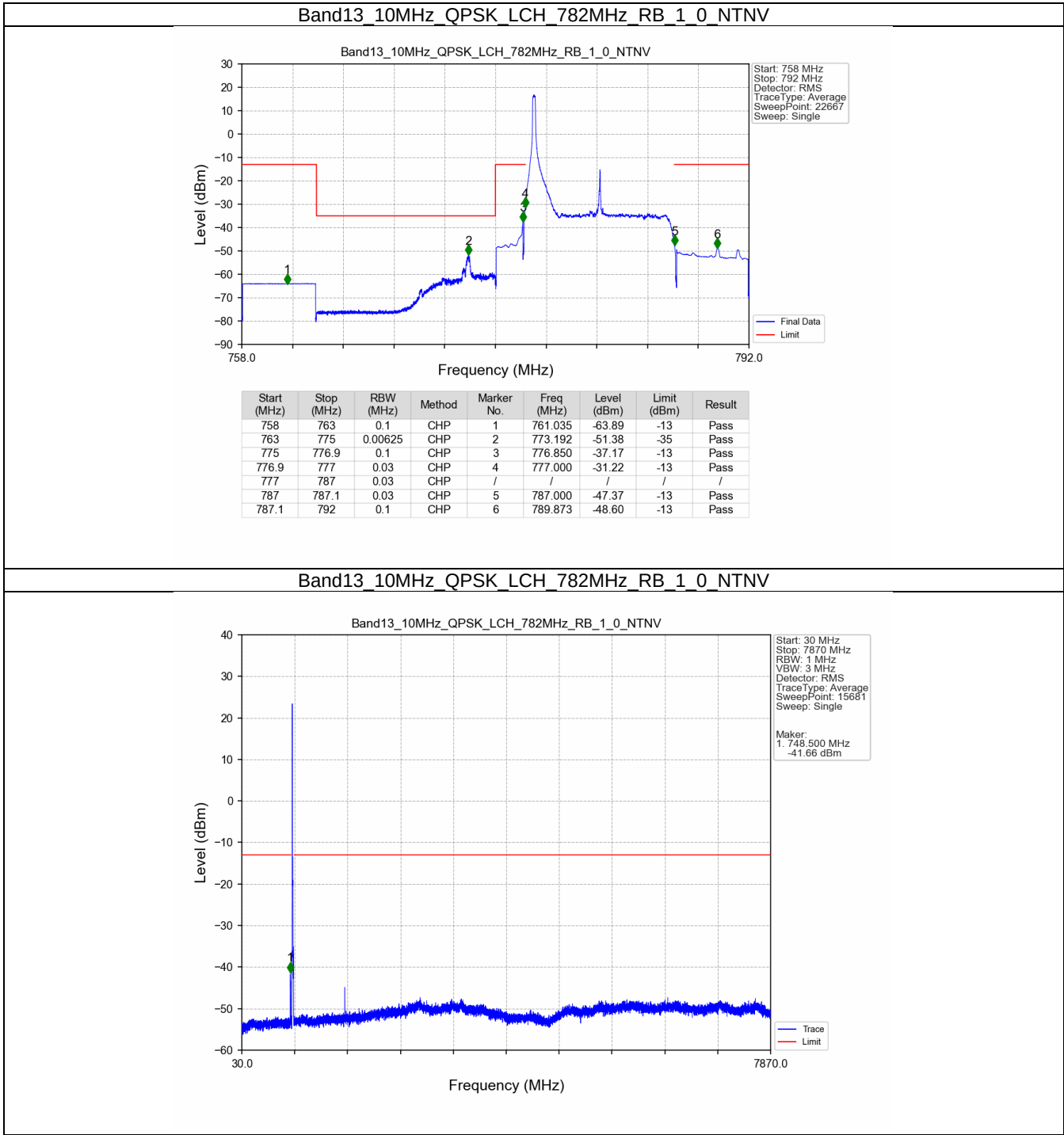
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-25.00	-13	Pass
787.1	793	0.1	CHP	2	787.150	-35.98	-13	Pass
793	805	0.00625	CHP	3	795.339	-65.00	-35	Pass
805	810	0.1	CHP	4	805.981	-63.89	-13	Pass

Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV

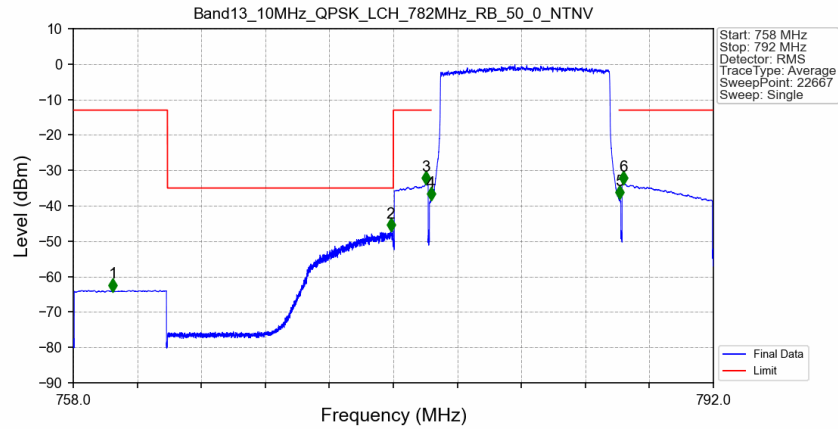


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-34.96	-13	Pass
787.1	793	0.1	CHP	2	787.356	-31.50	-13	Pass
793	805	0.00625	CHP	3	793.015	-60.51	-35	Pass
805	810	0.1	CHP	4	805.294	-63.15	-13	Pass

5.2.2 B13_10MHz

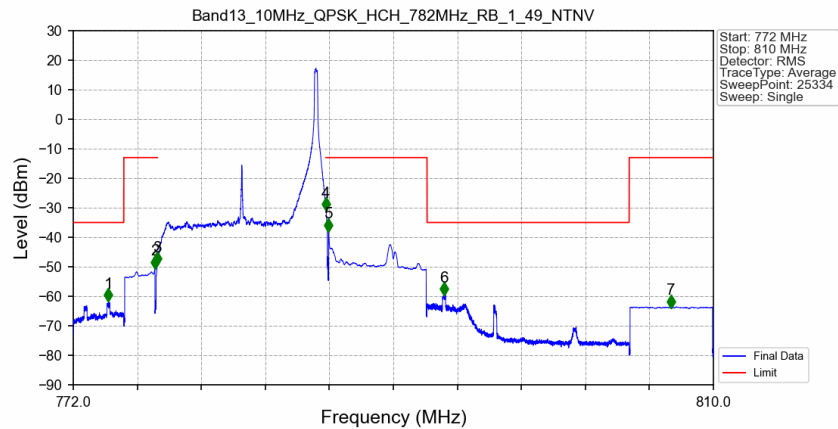


Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



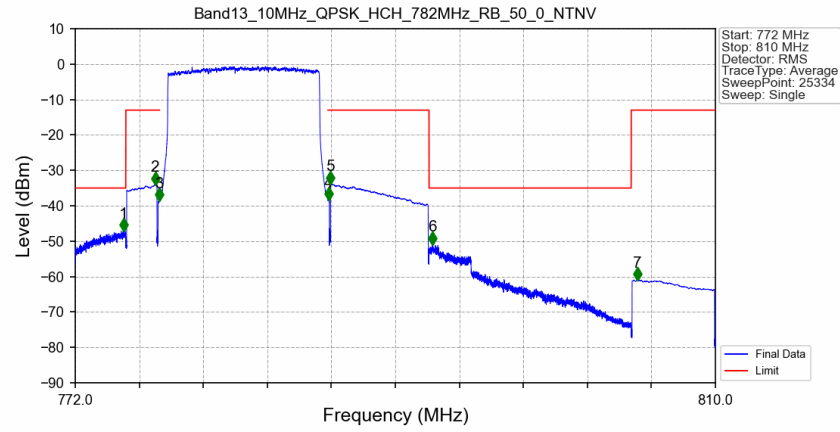
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.102	-63.91	-13	Pass
763	775	0.00625	CHP	2	774.866	-47.02	-35	Pass
775	776.9	0.1	CHP	3	776.743	-33.70	-13	Pass
776.9	777	0.03	CHP	4	777.000	-38.13	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.032	-37.76	-13	Pass
787.1	792	0.1	CHP	6	787.210	-33.78	-13	Pass

Band13_10MHz_QPSK_HCH_782MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.081	-61.40	-35	Pass
775	776.9	0.1	CHP	2	776.850	-50.26	-13	Pass
776.9	777	0.03	CHP	3	777.000	-49.20	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-30.69	-13	Pass
787.1	793	0.1	CHP	5	787.150	-37.69	-13	Pass
793	805	0.00625	CHP	6	794.002	-59.30	-35	Pass
805	810	0.1	CHP	7	807.492	-63.58	-13	Pass

Band13_10MHz_QPSK_HCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.867	-47.00	-35	Pass
775	776.9	0.1	CHP	2	776.740	-33.81	-13	Pass
776.9	777	0.03	CHP	3	776.986	-38.40	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.035	-38.16	-13	Pass
787.1	793	0.1	CHP	5	787.150	-33.62	-13	Pass
793	805	0.00625	CHP	6	793.195	-50.72	-35	Pass
805	810	0.1	CHP	7	805.360	-60.90	-13	Pass

- End of the Appendix -