

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	22.81	-0.6	20.06	<=34.77	Pass
			13	21.72	-0.6	18.97	<=34.77	Pass
			24	21.58	-0.6	18.83	<=34.77	Pass
		12	0	21.36	-0.6	18.61	<=34.77	Pass
			6	20.97	-0.6	18.22	<=34.77	Pass
			13	20.77	-0.6	18.02	<=34.77	Pass
		25	0	21.06	-0.6	18.31	<=34.77	Pass
	782	1	0	21.73	-0.6	18.98	<=34.77	Pass
			13	21.77	-0.6	19.02	<=34.77	Pass
			24	22.58	-0.6	19.83	<=34.77	Pass
		12	0	20.66	-0.6	17.91	<=34.77	Pass
			6	20.79	-0.6	18.04	<=34.77	Pass
			13	21.10	-0.6	18.35	<=34.77	Pass
		25	0	20.85	-0.6	18.1	<=34.77	Pass
	784.5	1	0	21.57	-0.6	18.82	<=34.77	Pass
			13	22.65	-0.6	19.9	<=34.77	Pass
			24	22.80	-0.6	20.05	<=34.77	Pass
		12	0	21.02	-0.6	18.27	<=34.77	Pass
			6	21.48	-0.6	18.73	<=34.77	Pass
			13	21.84	-0.6	19.09	<=34.77	Pass
		25	0	21.52	-0.6	18.77	<=34.77	Pass
16QAM	779.5	1	0	22.06	-0.6	19.31	<=34.77	Pass
			13	21.10	-0.6	18.35	<=34.77	Pass
			24	20.94	-0.6	18.19	<=34.77	Pass
		12	0	20.34	-0.6	17.59	<=34.77	Pass
			6	20.05	-0.6	17.3	<=34.77	Pass
			13	19.87	-0.6	17.12	<=34.77	Pass
		25	0	20.21	-0.6	17.46	<=34.77	Pass
	782	1	0	20.82	-0.6	18.07	<=34.77	Pass
			13	20.96	-0.6	18.21	<=34.77	Pass
			24	21.71	-0.6	18.96	<=34.77	Pass
		12	0	19.65	-0.6	16.9	<=34.77	Pass
			6	19.83	-0.6	17.08	<=34.77	Pass
			13	20.17	-0.6	17.42	<=34.77	Pass
		25	0	19.93	-0.6	17.18	<=34.77	Pass
	784.5	1	0	20.85	-0.6	18.1	<=34.77	Pass
			13	21.79	-0.6	19.04	<=34.77	Pass
			24	22.01	-0.6	19.26	<=34.77	Pass
		12	0	20.23	-0.6	17.48	<=34.77	Pass
			6	20.67	-0.6	17.92	<=34.77	Pass
			13	21.02	-0.6	18.27	<=34.77	Pass
		25	0	20.74	-0.6	17.99	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B13_10MHz_ERP

Band: 13 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	782	1	0	22.62	-0.6	19.87	<=34.77	Pass
			25	21.71	-0.6	18.96	<=34.77	Pass
			49	23.13	-0.6	20.38	<=34.77	Pass
		25	0	20.98	-0.6	18.23	<=34.77	Pass
			13	20.99	-0.6	18.24	<=34.77	Pass
			25	21.68	-0.6	18.93	<=34.77	Pass
		50	0	21.28	-0.6	18.53	<=34.77	Pass
16QAM	782	1	0	21.94	-0.6	19.19	<=34.77	Pass
			25	21.25	-0.6	18.5	<=34.77	Pass
			49	22.44	-0.6	19.69	<=34.77	Pass
		12	0	21.19	-0.6	18.44	<=34.77	Pass
			19	20.96	-0.6	18.21	<=34.77	Pass
			38	22.16	-0.6	19.41	<=34.77	Pass
		27	0	19.98	-0.6	17.23	<=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	1.302	0.0017	-2.5 to 2.5	Pass
					NV	0.415	0.0005	-2.5 to 2.5	Pass
					HV	0.114	0.0001	-2.5 to 2.5	Pass
				-30	NV	-0.186	-0.0002	-2.5 to 2.5	Pass
				-20	NV	0.243	0.0003	-2.5 to 2.5	Pass
				-10	NV	-0.172	-0.0002	-2.5 to 2.5	Pass
				0	NV	-0.057	-0.0001	-2.5 to 2.5	Pass
				10	NV	-0.429	-0.0005	-2.5 to 2.5	Pass
				30	NV	-0.100	-0.0001	-2.5 to 2.5	Pass
				40	NV	0.100	0.0001	-2.5 to 2.5	Pass
				50	NV	-0.386	-0.0005	-2.5 to 2.5	Pass



3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band13_OBW

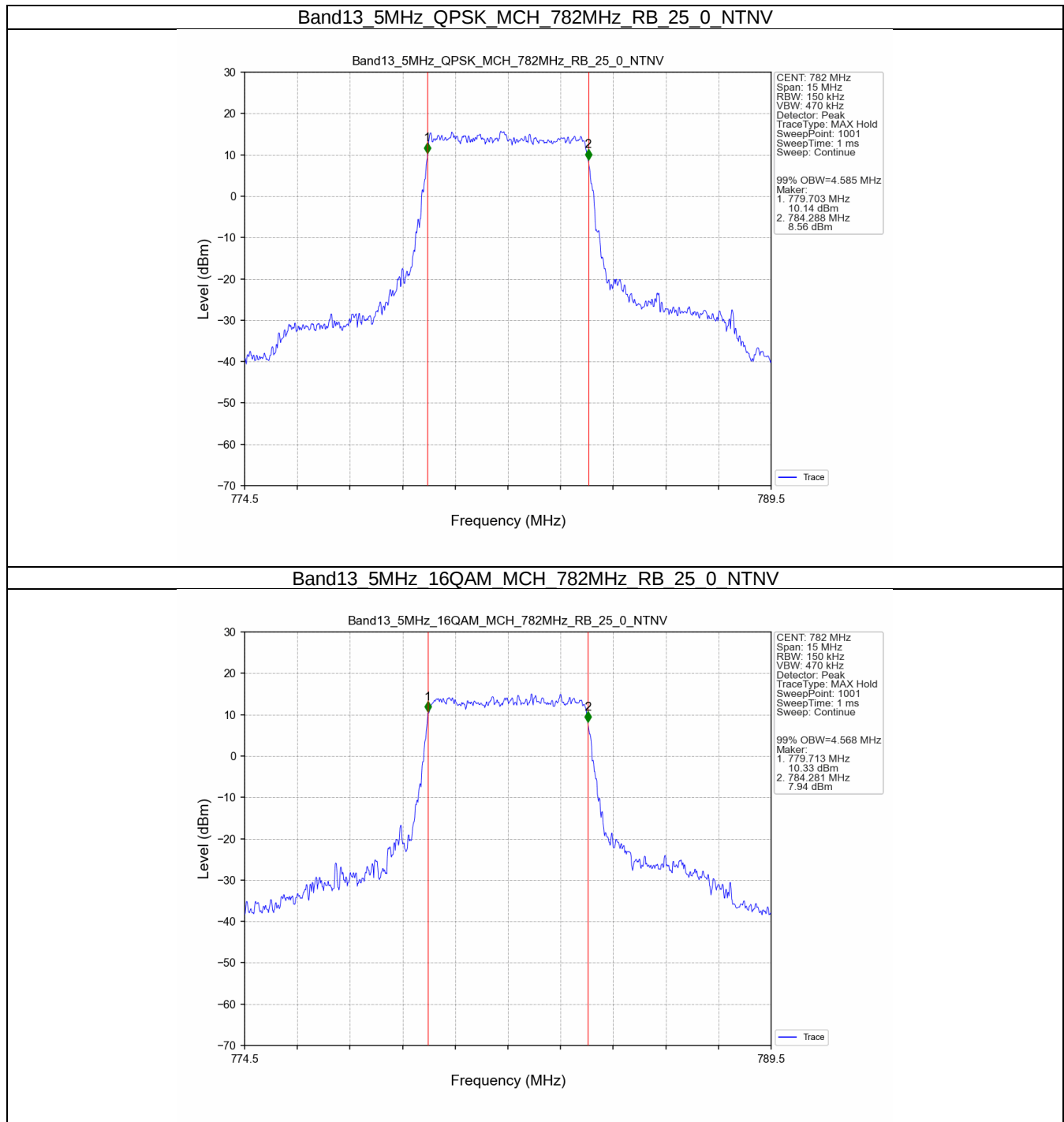
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	4.585	/	Pass
	16QAM	782	25	0	4.568	/	Pass
10	QPSK	782	50	0	9.132	/	Pass
	16QAM	782	27	0	5.136	/	Pass

3.1.2 Band13_XDB

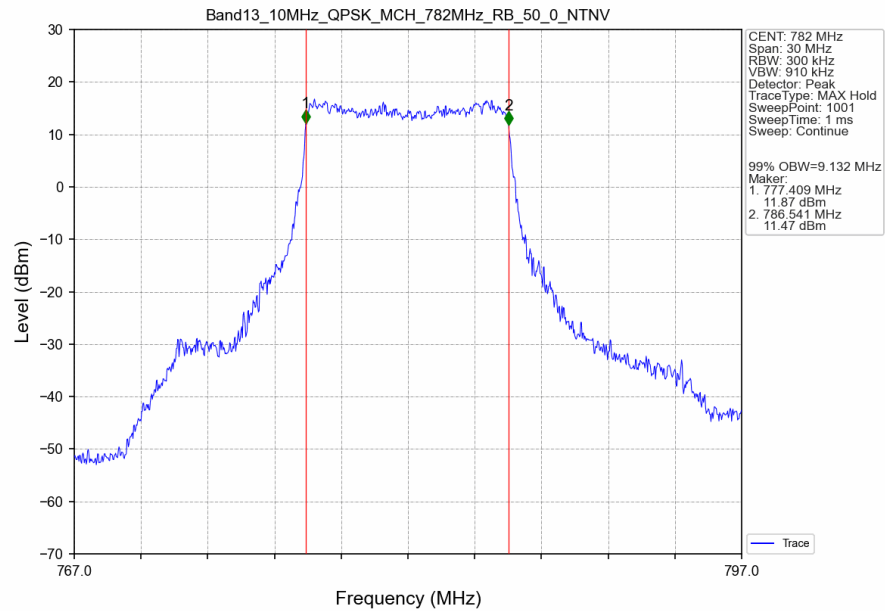
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	5.254	/	Pass
	16QAM	782	25	0	5.225	/	Pass
10	QPSK	782	50	0	10.497	/	Pass
	16QAM	782	27	0	6.282	/	Pass

3.2 Test Graph

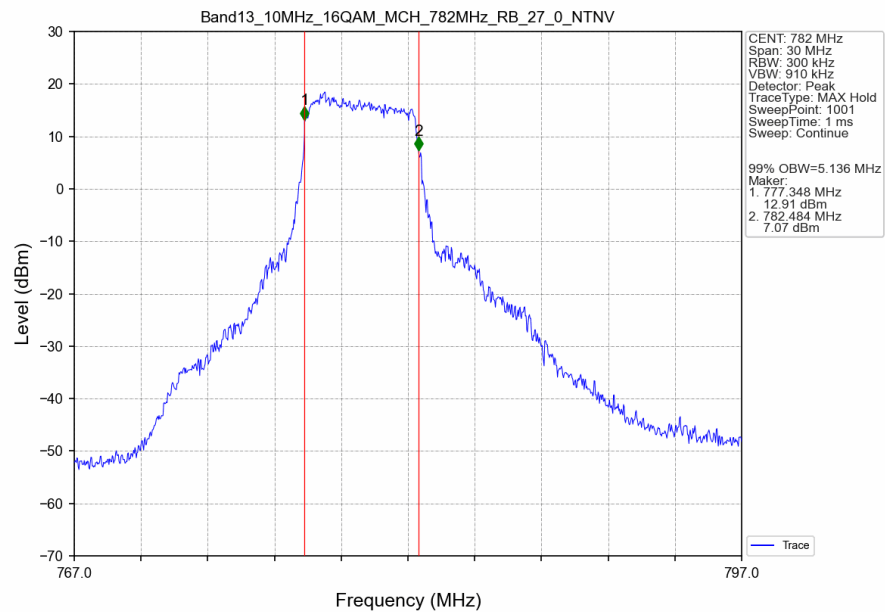
3.2.1 Band13_OBW



Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV

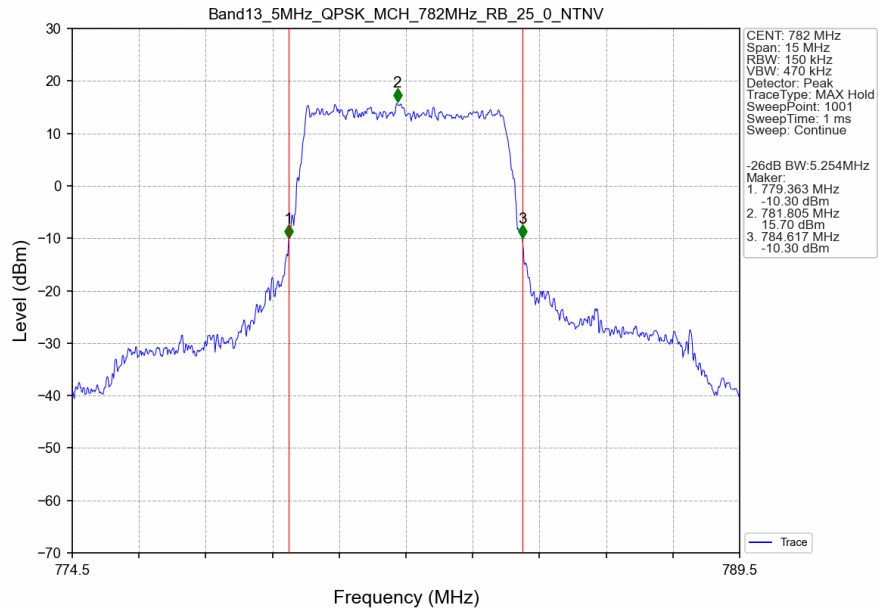


Band13_10MHz_16QAM_MCH_782MHz_RB_27_0_NTNV

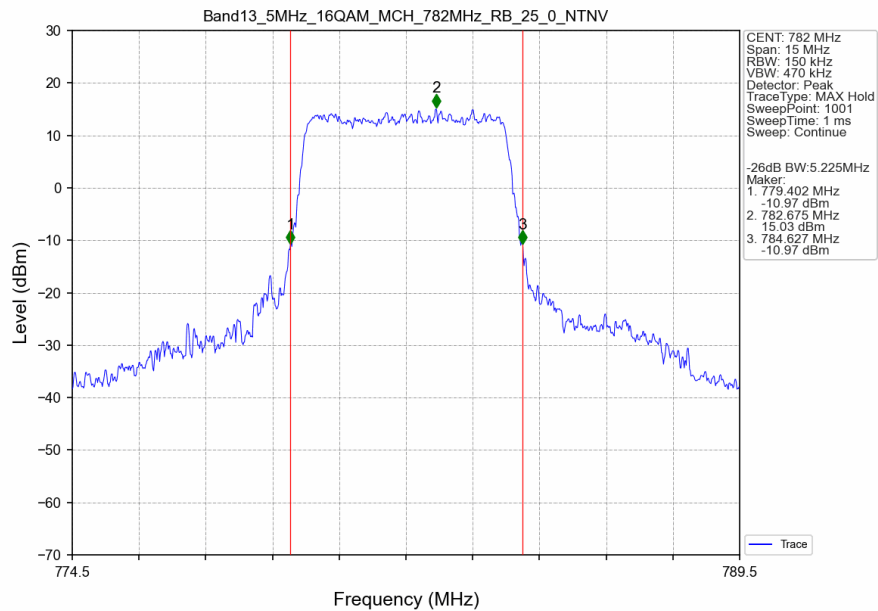


3.2.2 Band13_XDB

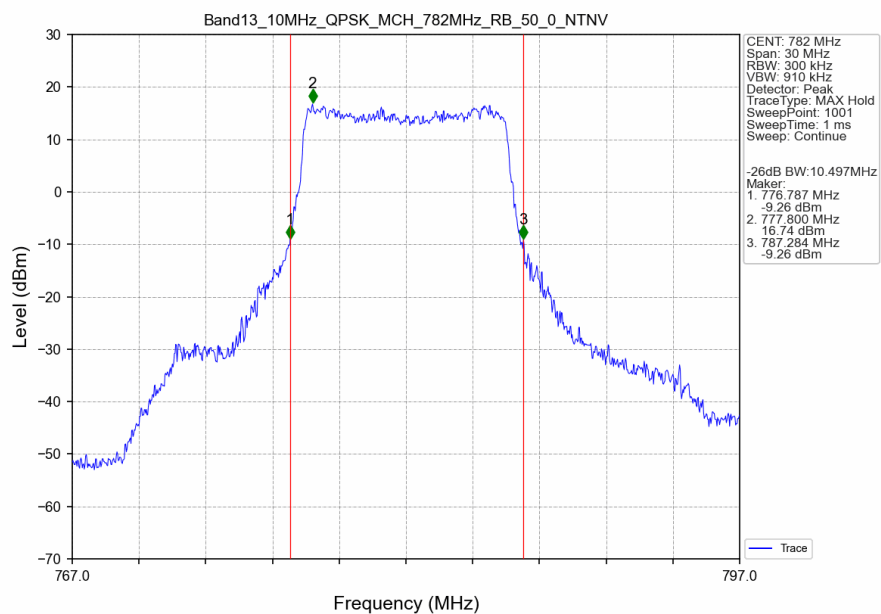
Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



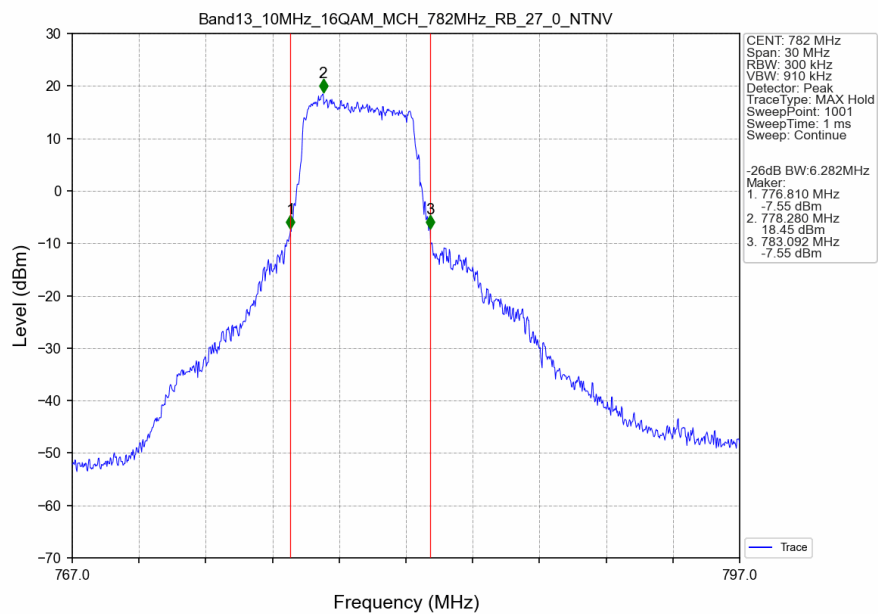
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_27_0_NTNV





4. Peak-Average Ratio

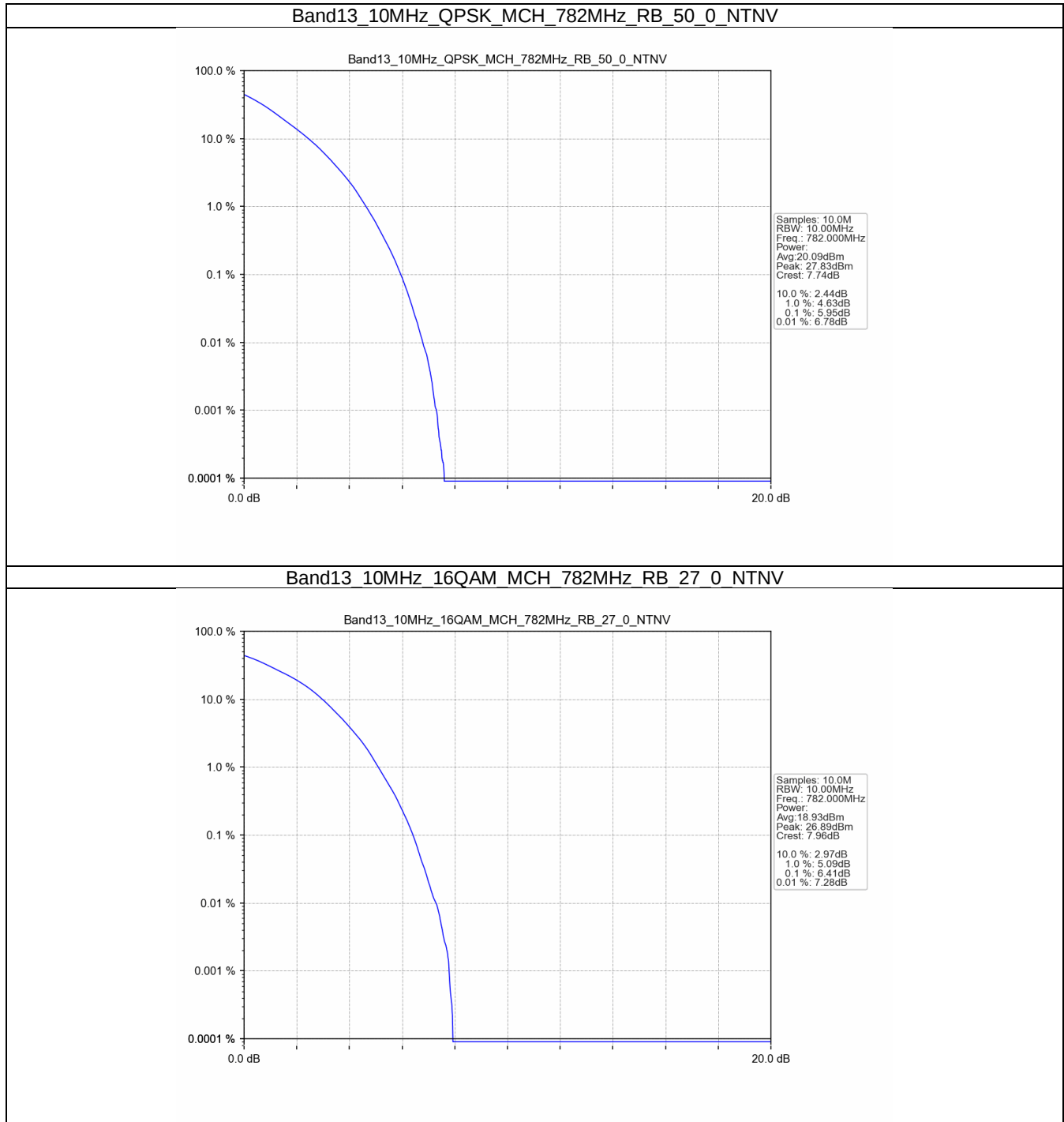
4.1 Test Result

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	5.95	<=13	Pass
16QAM	782	27	0	6.41	<=13	Pass

4.2 Test Graph

4.2.1 B13_10MHz



5. Spurious Emission

5.1 Test Result

5.1.1 B13_5MHz

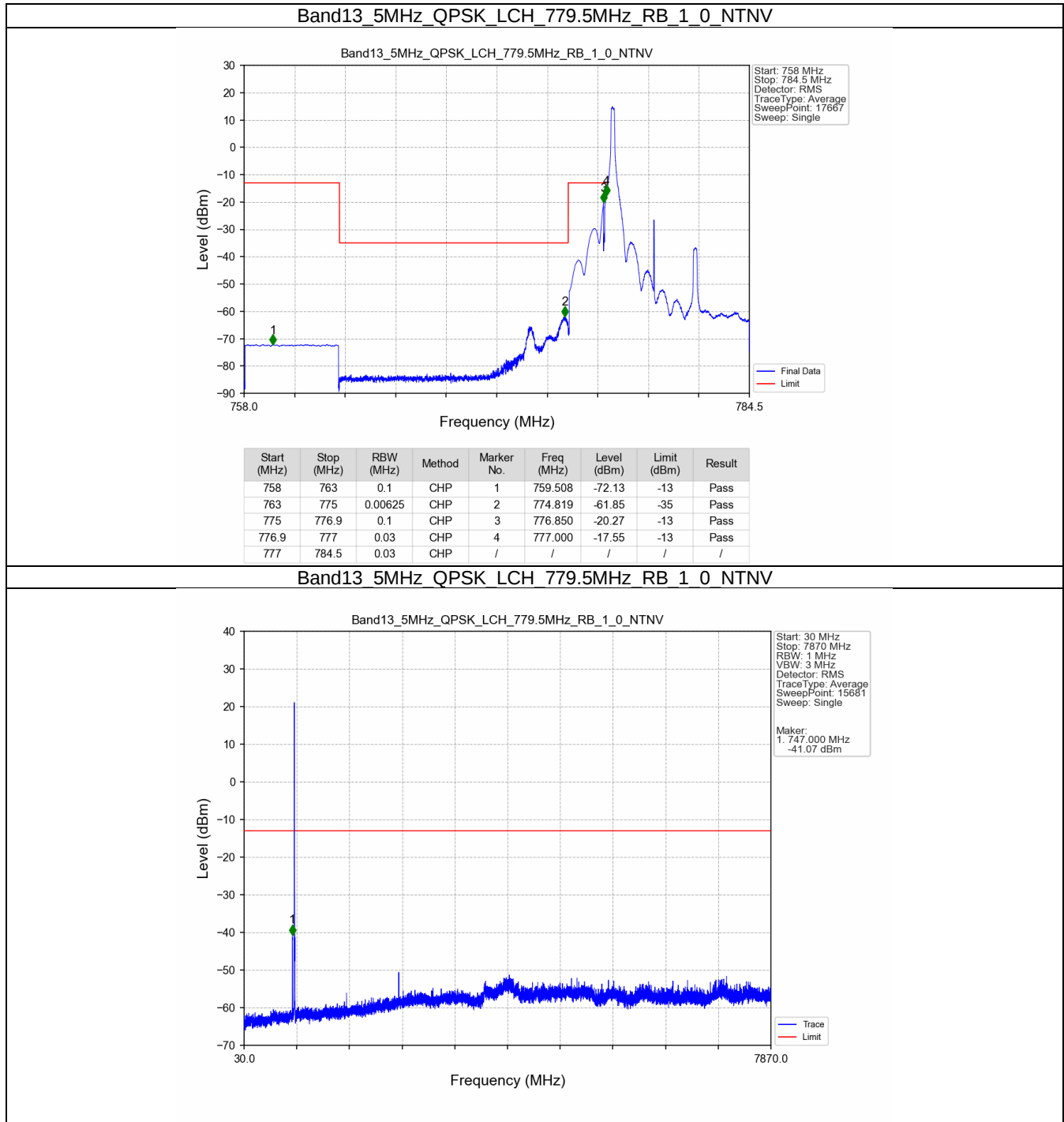
Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.2 B13_10MHz

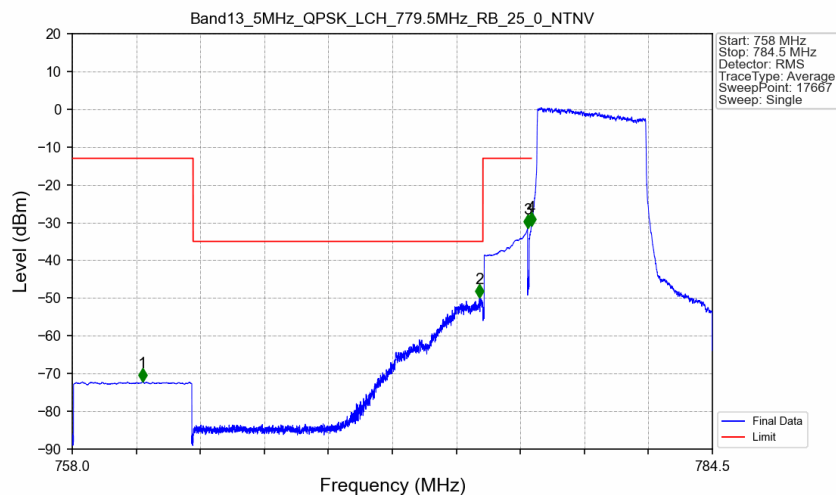
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

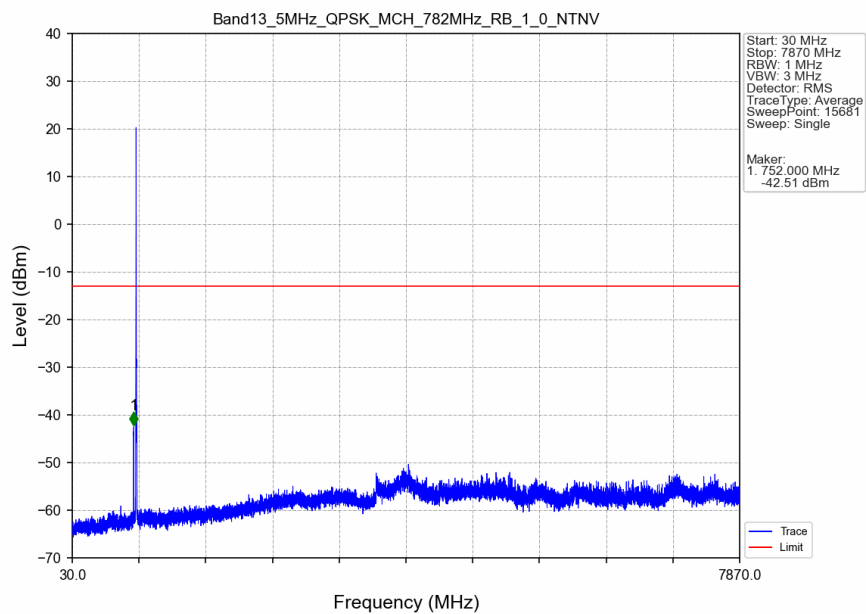
5.2.1 B13_5MHz



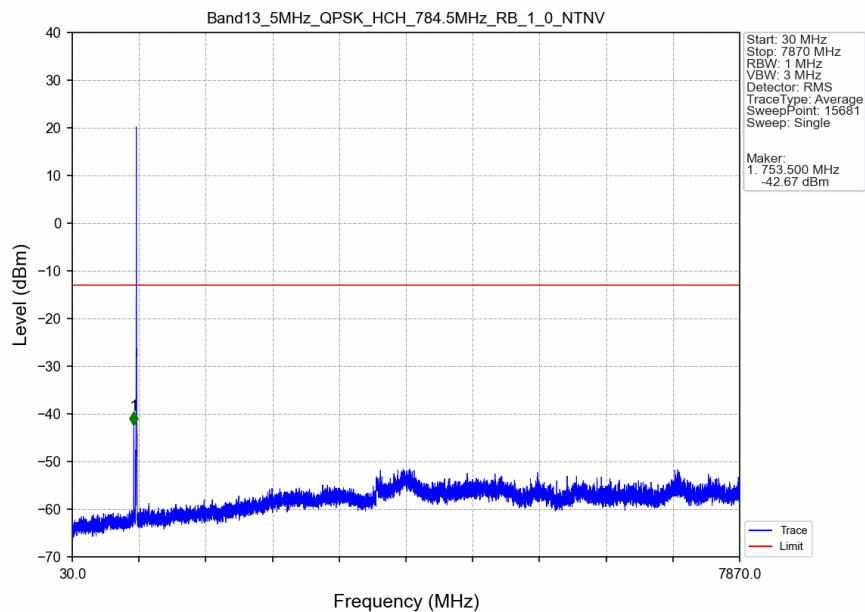
Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV



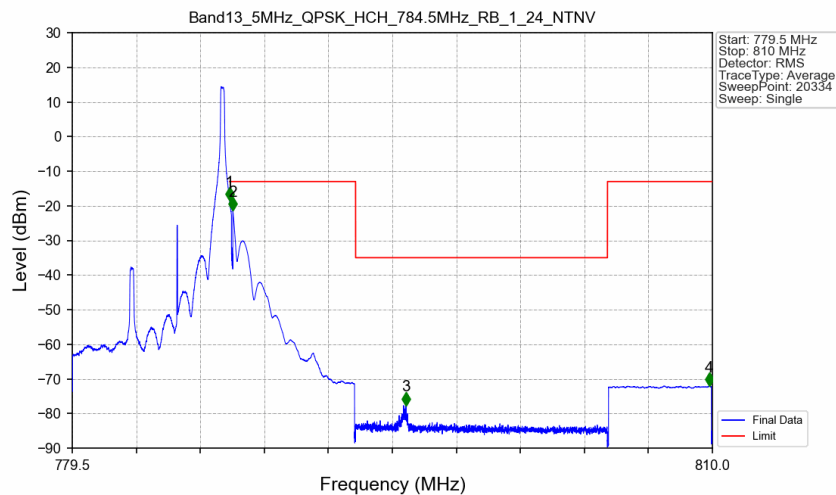
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV

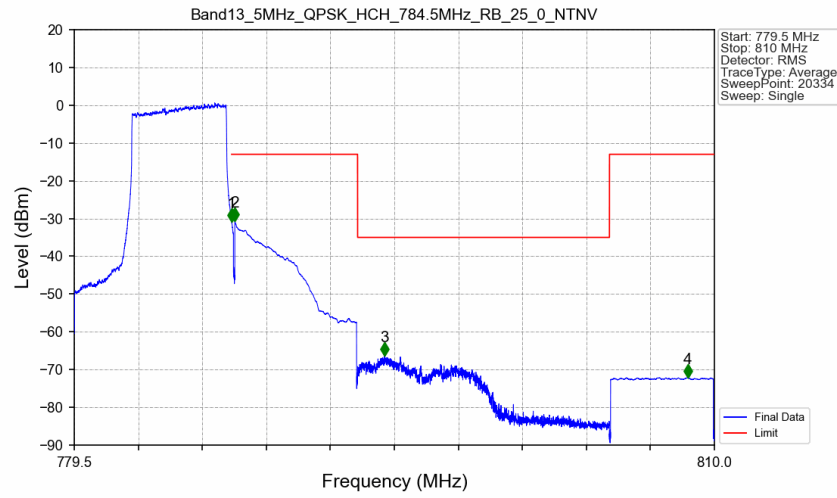


Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



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	-18.52	-13	Pass
787.1	793	0.1	CHP	2	787.150	-21.38	-13	Pass
793	805	0.00625	CHP	3	795.382	-77.59	-35	Pass
805	810	0.1	CHP	4	809.851	-72.04	-13	Pass

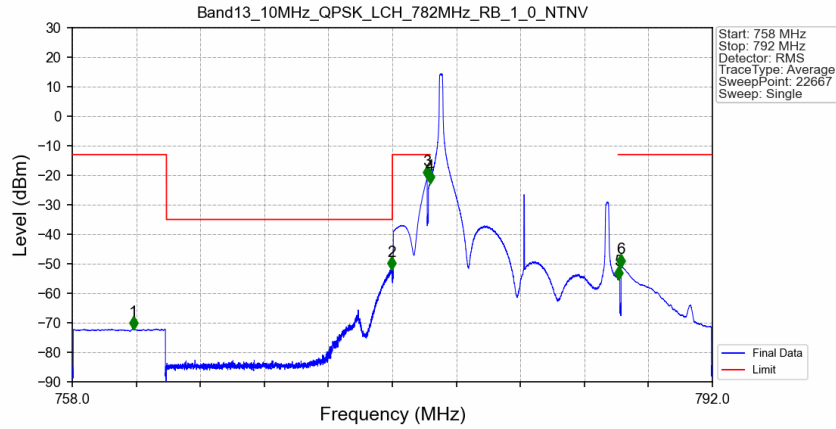
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



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	-30.81	-13	Pass
787.1	793	0.1	CHP	2	787.150	-30.62	-13	Pass
793	805	0.00625	CHP	3	794.269	-66.34	-35	Pass
805	810	0.1	CHP	4	808.726	-72.11	-13	Pass

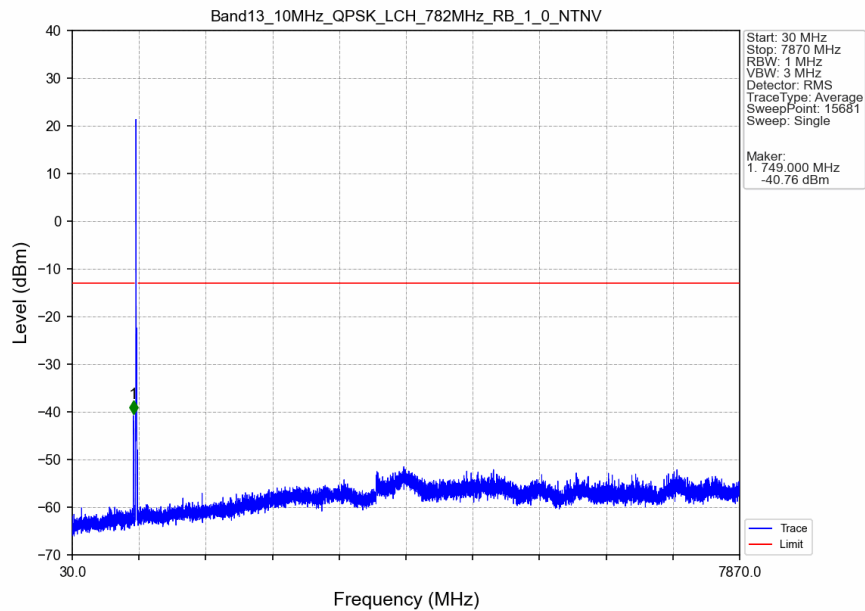
5.2.2 B13_10MHz

Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

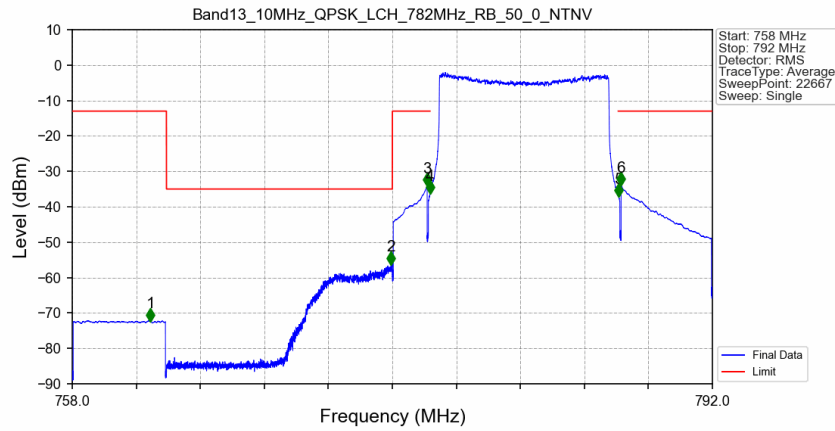


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.245	-72.01	-13	Pass
763	775	0.00625	CHP	2	774.970	-51.59	-35	Pass
775	776.9	0.1	CHP	3	776.850	-20.94	-13	Pass
776.9	777	0.03	CHP	4	777.000	-22.45	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.006	-54.91	-13	Pass
787.1	792	0.1	CHP	6	787.152	-50.76	-13	Pass

Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

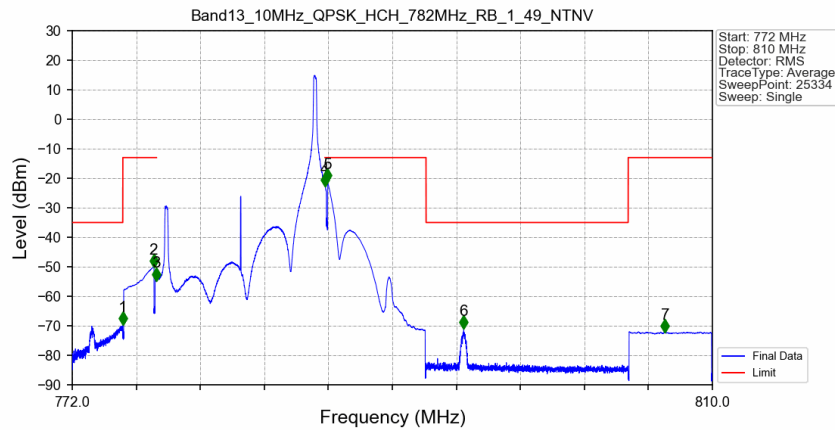


Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



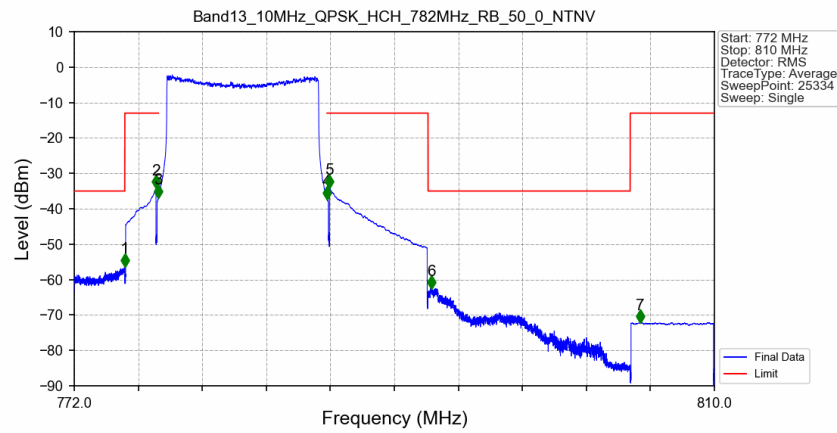
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.149	-72.09	-13	Pass
763	775	0.00625	CHP	2	774.937	-56.06	-35	Pass
775	776.9	0.1	CHP	3	776.850	-33.94	-13	Pass
776.9	777	0.03	CHP	4	777.000	-36.12	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.002	-36.84	-13	Pass
787.1	792	0.1	CHP	6	787.150	-33.68	-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	774.991	-69.36	-35	Pass
775	776.9	0.1	CHP	2	776.832	-49.84	-13	Pass
776.9	777	0.03	CHP	3	776.982	-54.34	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-22.37	-13	Pass
787.1	793	0.1	CHP	5	787.150	-20.98	-13	Pass
793	805	0.00625	CHP	6	795.238	-70.70	-35	Pass
805	810	0.1	CHP	7	807.184	-72.02	-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	774.996	-56.03	-35	Pass
775	776.9	0.1	CHP	2	776.850	-33.98	-13	Pass
776.9	777	0.03	CHP	3	777.000	-36.57	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-37.01	-13	Pass
787.1	793	0.1	CHP	5	787.150	-33.82	-13	Pass
793	805	0.00625	CHP	6	793.182	-62.33	-35	Pass
805	810	0.1	CHP	7	805.599	-72.01	-13	Pass

-End of Appendix -