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	23.42	3.17	24.44	<=34.77	Pass
			13	23.18	3.17	24.20	<=34.77	Pass
			24	23.27	3.17	24.29	<=34.77	Pass
		12	0	22.44	3.17	23.46	<=34.77	Pass
			6	22.28	3.17	23.30	<=34.77	Pass
			13	22.24	3.17	23.26	<=34.77	Pass
		25	0	22.34	3.17	23.36	<=34.77	Pass
	782	1	0	23.25	3.17	24.27	<=34.77	Pass
			13	23.44	3.17	24.46	<=34.77	Pass
			24	23.52	3.17	24.54	<=34.77	Pass
		12	0	22.29	3.17	23.31	<=34.77	Pass
			6	22.31	3.17	23.33	<=34.77	Pass
			13	22.43	3.17	23.45	<=34.77	Pass
		25	0	22.23	3.17	23.25	<=34.77	Pass
	784.5	1	0	23.24	3.17	24.26	<=34.77	Pass
			13	23.34	3.17	24.36	<=34.77	Pass
			24	23.27	3.17	24.29	<=34.77	Pass
		12	0	22.47	3.17	23.49	<=34.77	Pass
			6	22.36	3.17	23.38	<=34.77	Pass
			13	22.30	3.17	23.32	<=34.77	Pass
		25	0	22.32	3.17	23.34	<=34.77	Pass
16QAM	779.5	1	0	22.61	3.17	23.63	<=34.77	Pass
			13	22.44	3.17	23.46	<=34.77	Pass
			24	22.45	3.17	23.47	<=34.77	Pass
		12	0	21.55	3.17	22.57	<=34.77	Pass
			6	21.41	3.17	22.43	<=34.77	Pass
			13	21.36	3.17	22.38	<=34.77	Pass
		25	0	21.37	3.17	22.39	<=34.77	Pass
	782	1	0	22.27	3.17	23.29	<=34.77	Pass
			13	22.49	3.17	23.51	<=34.77	Pass
			24	22.55	3.17	23.57	<=34.77	Pass
		12	0	21.21	3.17	22.23	<=34.77	Pass
			6	21.24	3.17	22.26	<=34.77	Pass
			13	21.36	3.17	22.38	<=34.77	Pass
		25	0	21.29	3.17	22.31	<=34.77	Pass
	784.5	1	0	22.48	3.17	23.50	<=34.77	Pass
			13	22.61	3.17	23.63	<=34.77	Pass
			24	22.42	3.17	23.44	<=34.77	Pass
		12	0	21.39	3.17	22.41	<=34.77	Pass
			6	21.40	3.17	22.42	<=34.77	Pass
			13	21.35	3.17	22.37	<=34.77	Pass
		25	0	21.41	3.17	22.43	<=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	23.67	3.17	24.69	<=34.77	Pass
			25	23.43	3.17	24.45	<=34.77	Pass
			49	23.55	3.17	24.57	<=34.77	Pass
		25	0	22.46	3.17	23.48	<=34.77	Pass
			13	22.44	3.17	23.46	<=34.77	Pass
			25	22.51	3.17	23.53	<=34.77	Pass
		50	0	22.51	3.17	23.53	<=34.77	Pass
16QAM	782	1	0	22.84	3.17	23.86	<=34.77	Pass
			25	22.66	3.17	23.68	<=34.77	Pass
			49	22.69	3.17	23.71	<=34.77	Pass
		12	0	22.58	3.17	23.60	<=34.77	Pass
			19	22.45	3.17	23.47	<=34.77	Pass
			38	22.52	3.17	23.54	<=34.77	Pass
		27	0	21.47	3.17	22.49	<=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	-0.730	-0.0009	-2.5 to 2.5	Pass
					NV	-0.687	-0.0009	-2.5 to 2.5	Pass
					HV	-0.644	-0.0008	-2.5 to 2.5	Pass
				-30	NV	-0.687	-0.0009	-2.5 to 2.5	Pass
				-20	NV	-0.257	-0.0003	-2.5 to 2.5	Pass
				-10	NV	-0.143	-0.0002	-2.5 to 2.5	Pass
				0	NV	-0.429	-0.0005	-2.5 to 2.5	Pass
				10	NV	-0.644	-0.0008	-2.5 to 2.5	Pass
				30	NV	-0.858	-0.0011	-2.5 to 2.5	Pass
				40	NV	0.114	0.0001	-2.5 to 2.5	Pass
				50	NV	0.186	0.0002	-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	4.561	/	Pass
	16QAM	782	25	0	4.554	/	Pass
10	QPSK	782	50	0	9.045	/	Pass
	16QAM	782	27	0	5.084	/	Pass

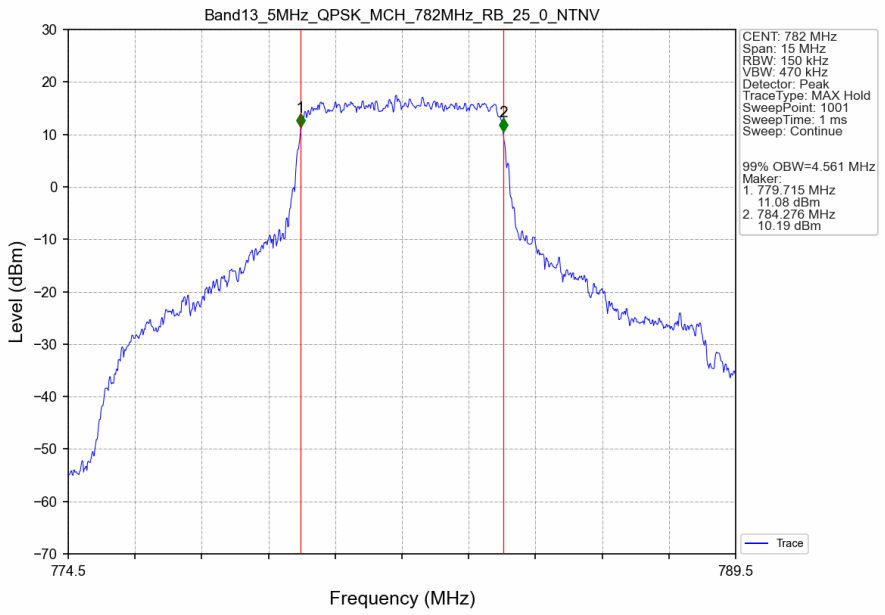
3.1.2 Band13_XDB

Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	5.478	/	Pass
	16QAM	782	25	0	5.493	/	Pass
10	QPSK	782	50	0	10.229	/	Pass
	16QAM	782	27	0	6.227	/	Pass

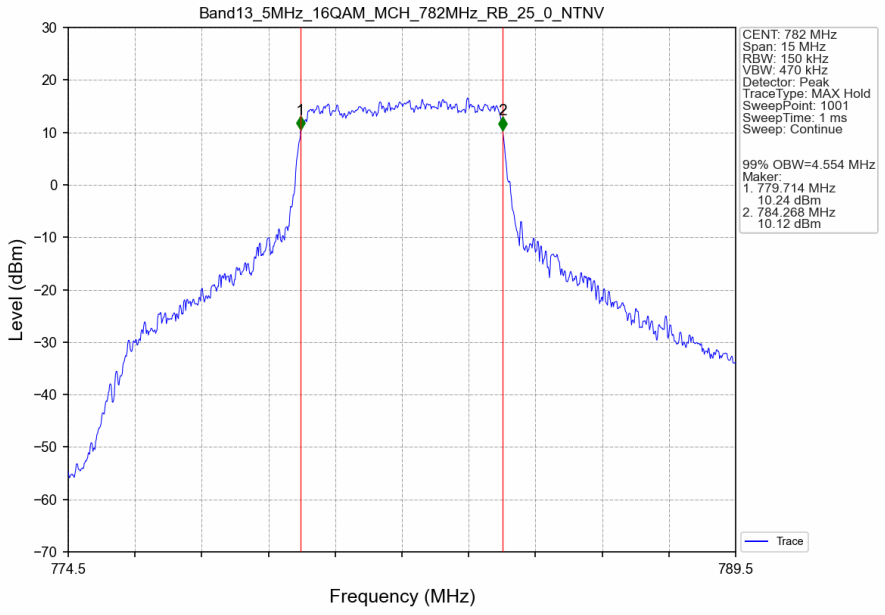
3.2 Test Graph

3.2.1 Band13_OBW

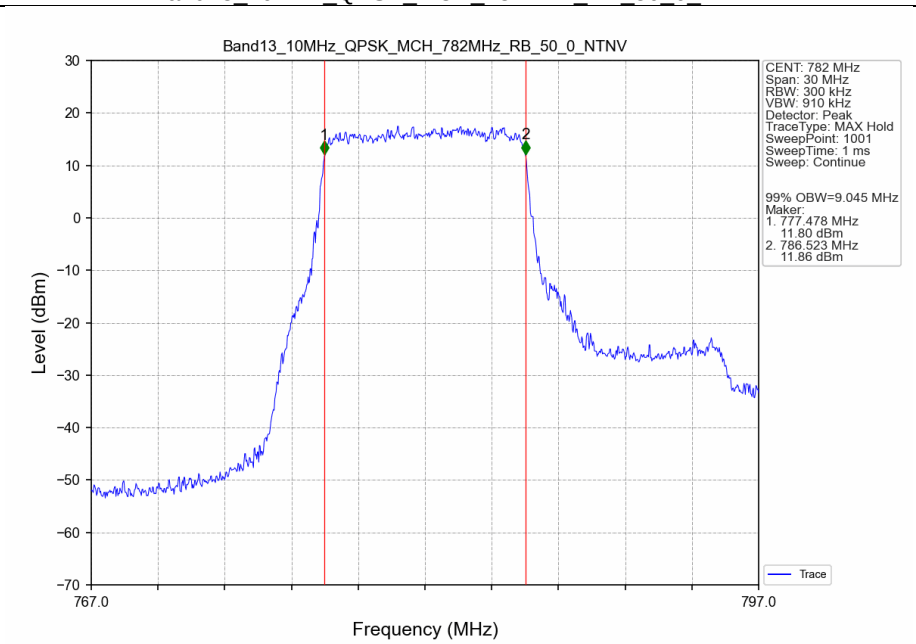
Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



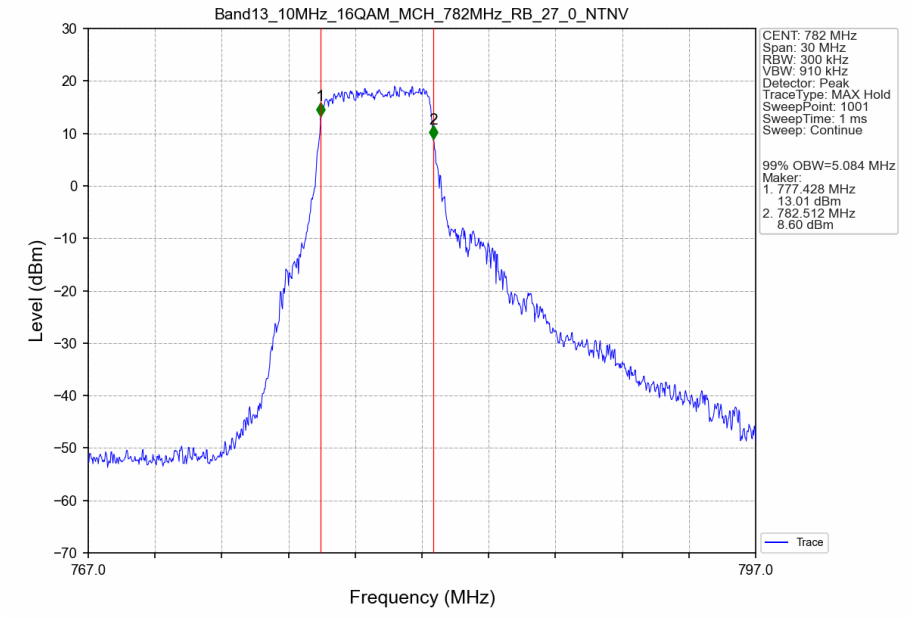
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV

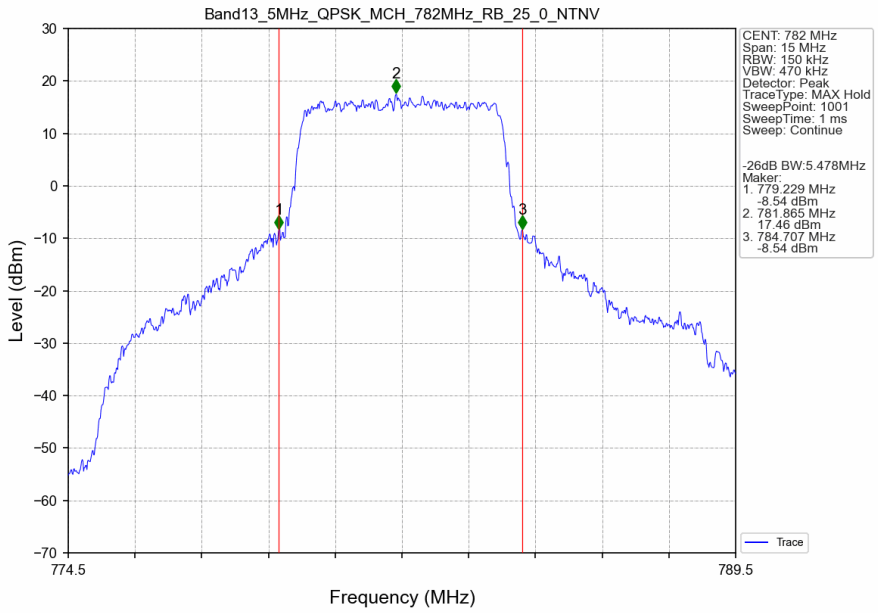


Band13_10MHz_16QAM_MCH_782MHz_RB_27_0_NTNV

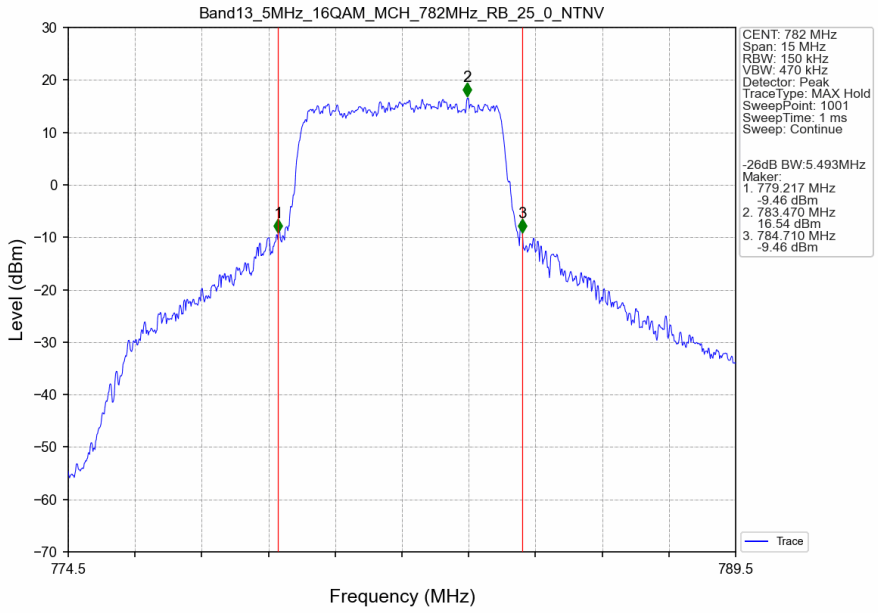


3.2.2 Band13_XDB

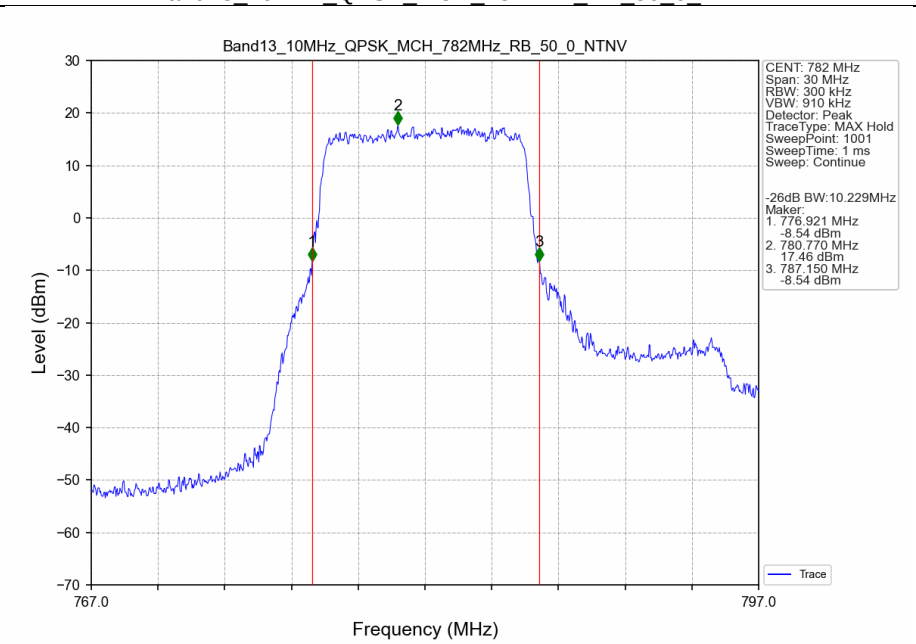
Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



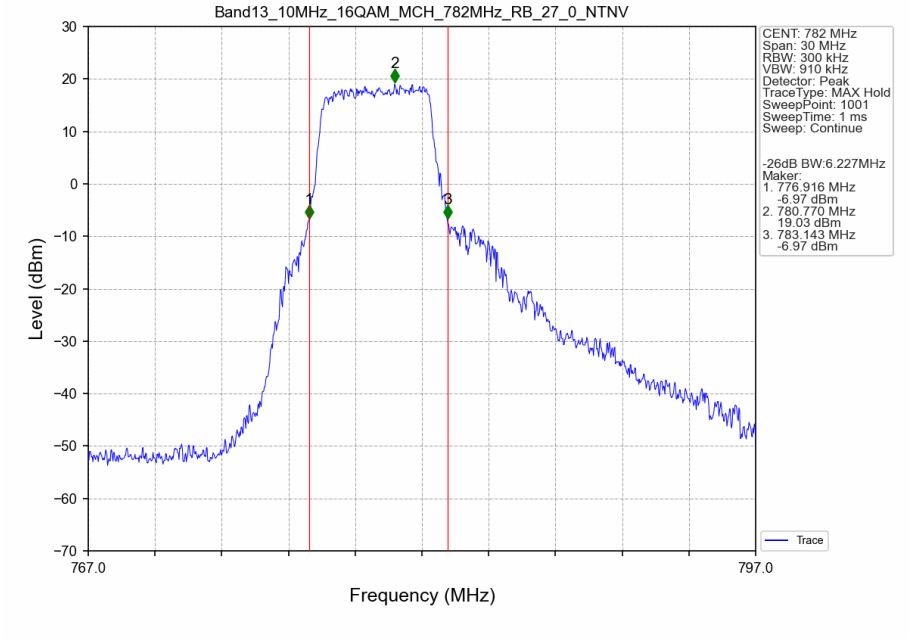
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



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

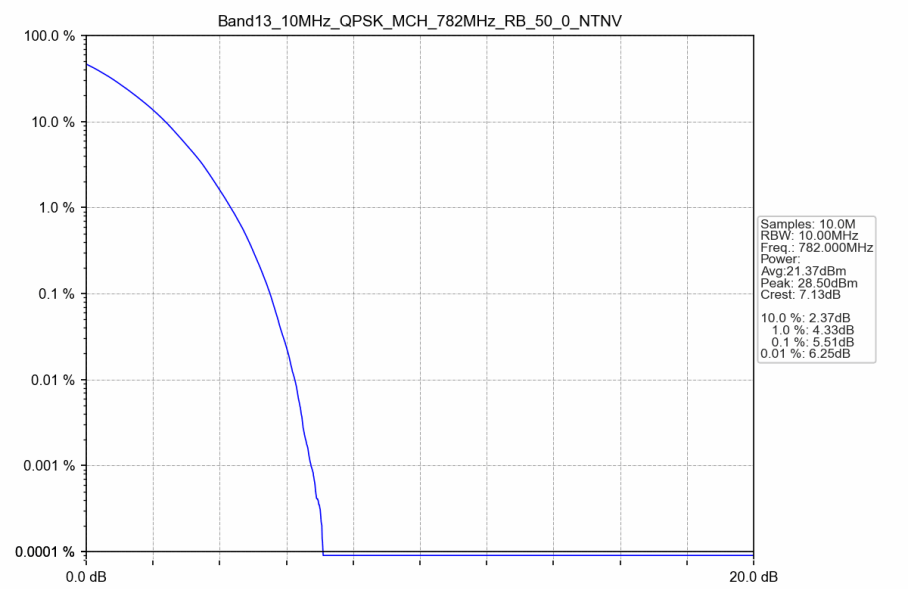
4.1.1 B13_10MHz

Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.51	<=13	Pass
16QAM	782	27	0	6.18	<=13	Pass

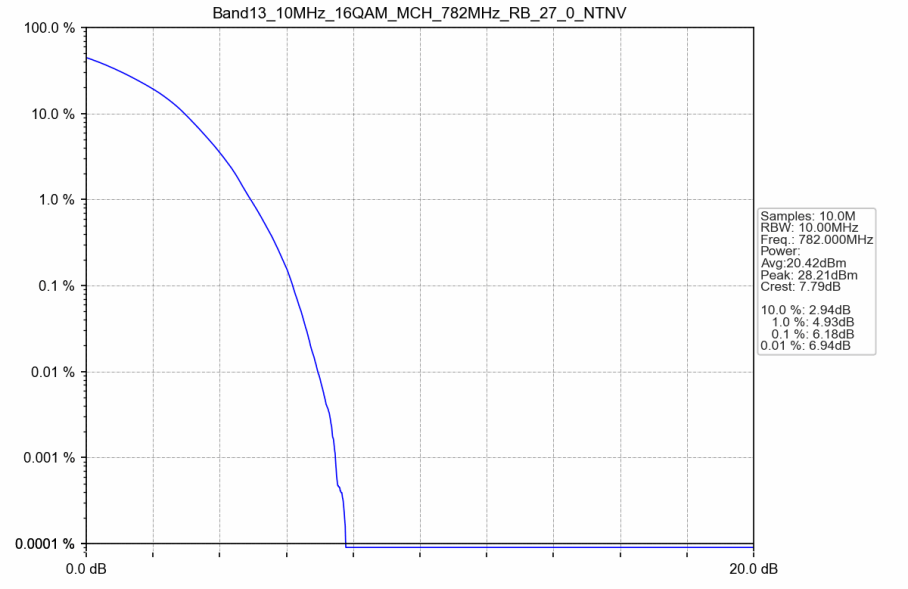
4.2 Test Graph

4.2.1 B13_10MHz

Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_27_0_NTNV



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

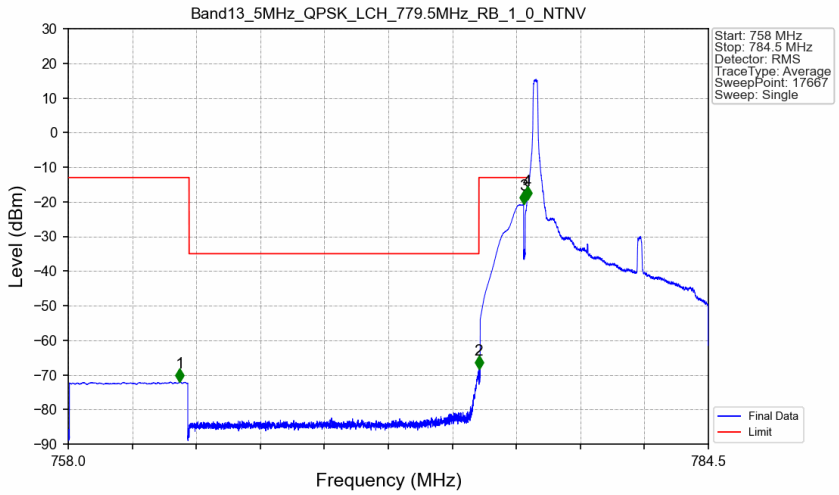
5.1.2 B13_10MHz

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

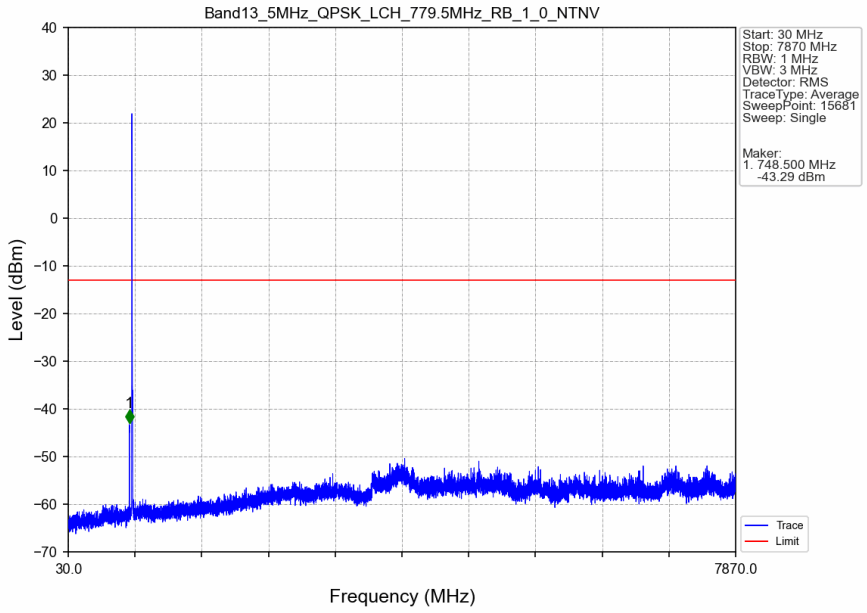
5.2.1 B13_5MHz

Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV

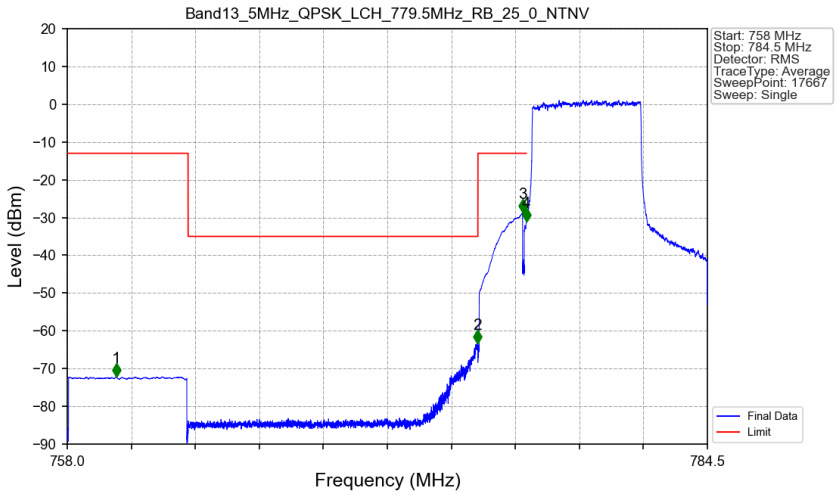


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.610	-72.04	-13	Pass
763	775	0.00625	CHP	2	774.996	-68.35	-35	Pass
775	776.9	0.1	CHP	3	776.850	-20.59	-13	Pass
776.9	777	0.03	CHP	4	776.998	-19.26	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV

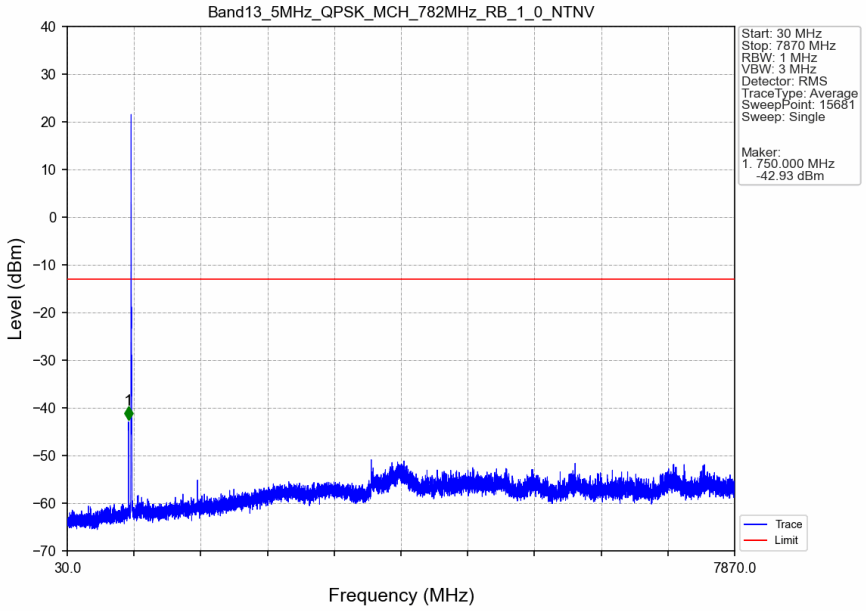


Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV

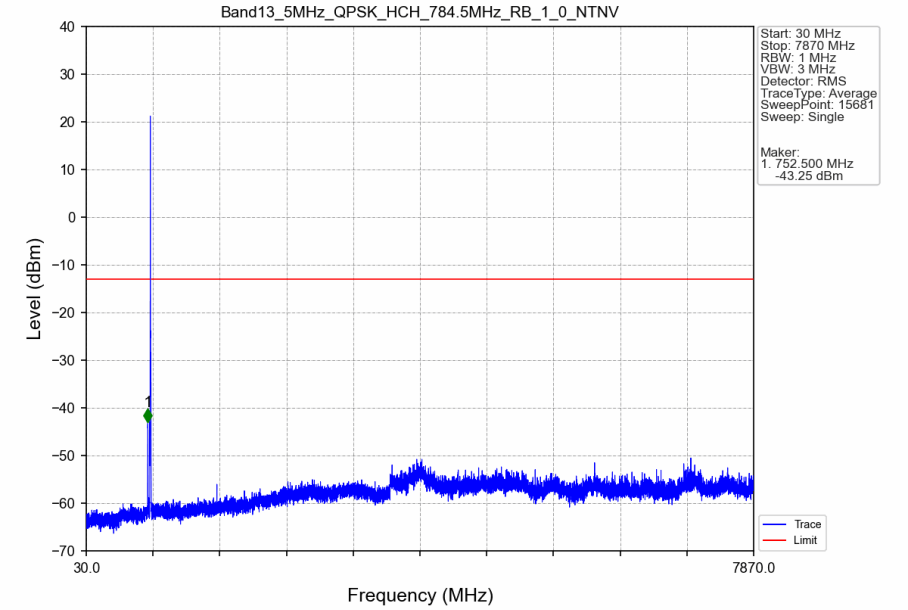


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.036	-72.19	-13	Pass
763	775	0.00625	CHP	2	774.981	-63.36	-35	Pass
775	776.9	0.1	CHP	3	776.850	-28.66	-13	Pass
776.9	777	0.03	CHP	4	777.000	-31.11	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

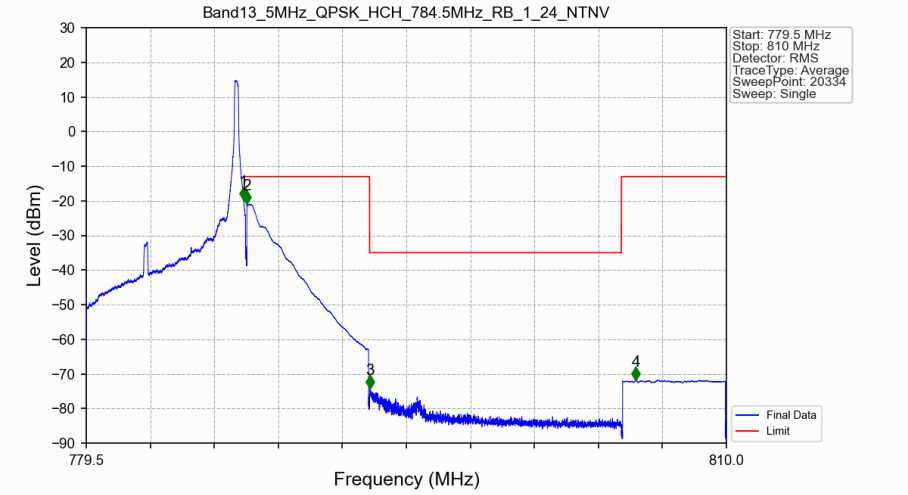
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV

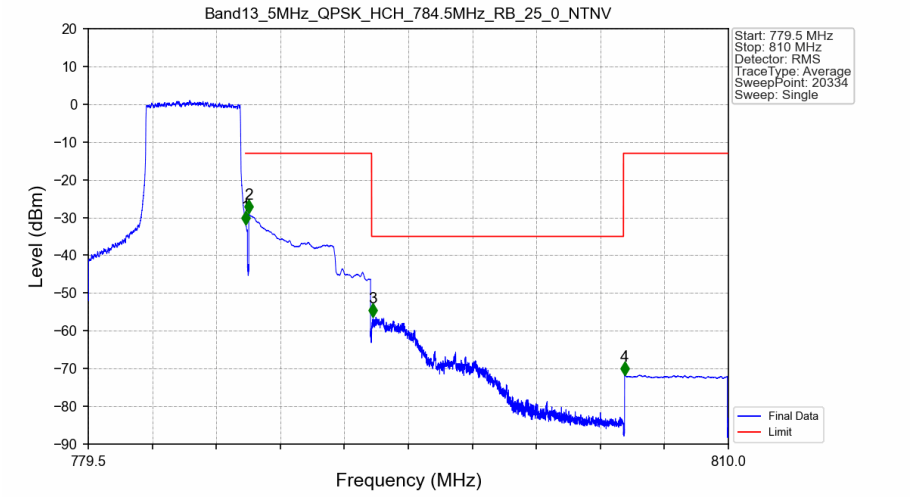


Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



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	-19.77	-13	Pass
787.1	793	0.1	CHP	2	787.150	-20.88	-13	Pass
793	805	0.00625	CHP	3	793.024	-74.19	-35	Pass
805	810	0.1	CHP	4	805.677	-71.77	-13	Pass

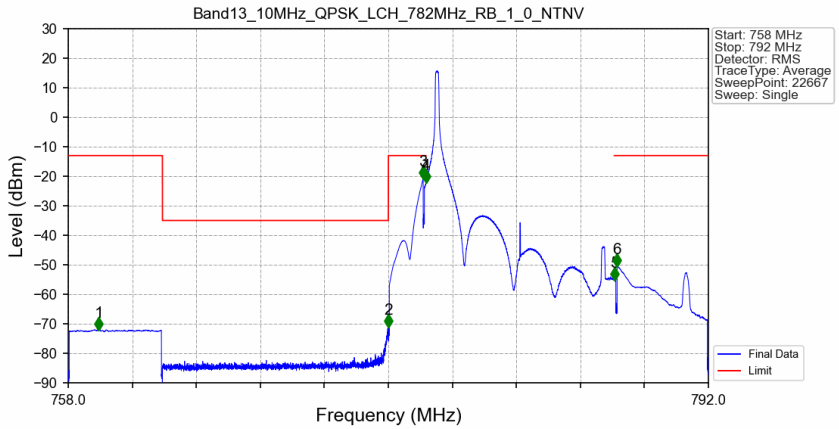
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



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	-31.80	-13	Pass
787.1	793	0.1	CHP	2	787.150	-28.91	-13	Pass
793	805	0.00625	CHP	3	793.071	-56.33	-35	Pass
805	810	0.1	CHP	4	805.054	-71.69	-13	Pass

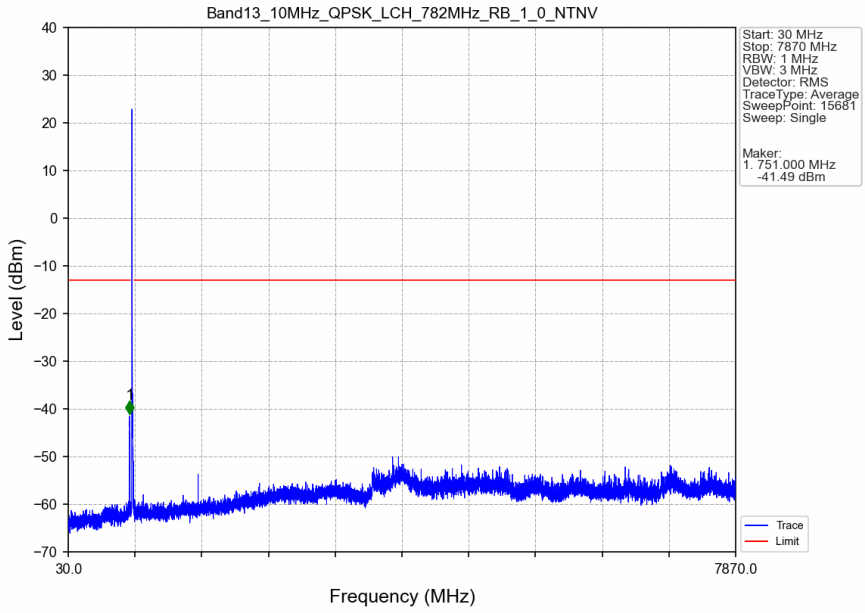
5.2.2 B13_10MHz

Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

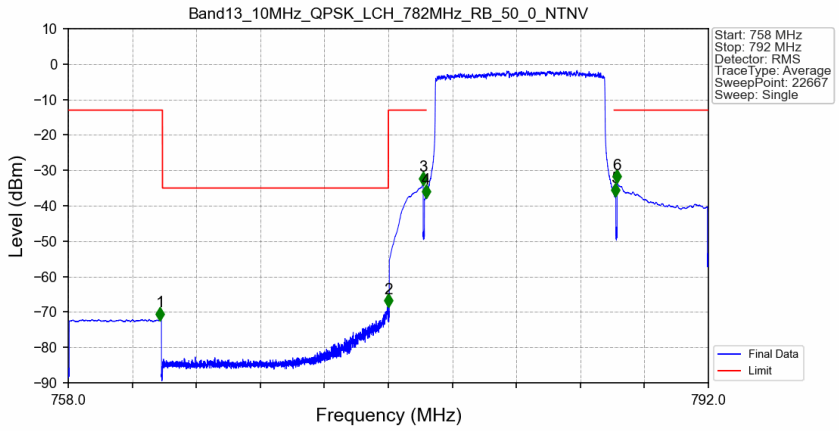


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.622	-71.88	-13	Pass
763	775	0.00625	CHP	2	774.995	-70.92	-35	Pass
775	776.9	0.1	CHP	3	776.850	-20.73	-13	Pass
776.9	777	0.03	CHP	4	777.000	-21.99	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.006	-54.99	-13	Pass
787.1	792	0.1	CHP	6	787.152	-50.47	-13	Pass

Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

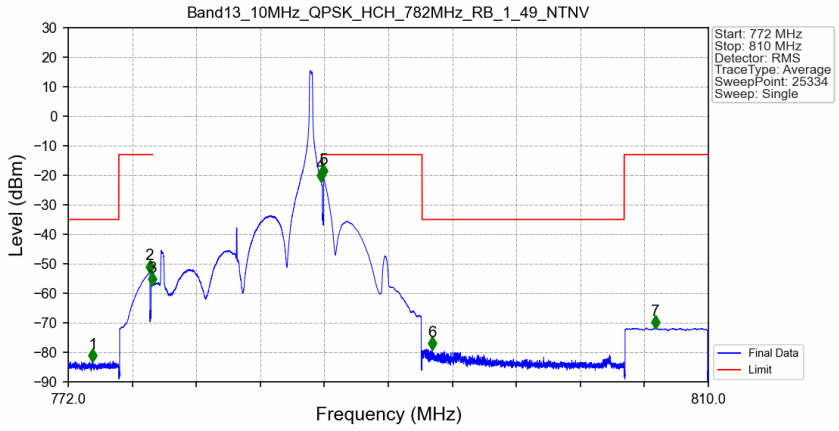


Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



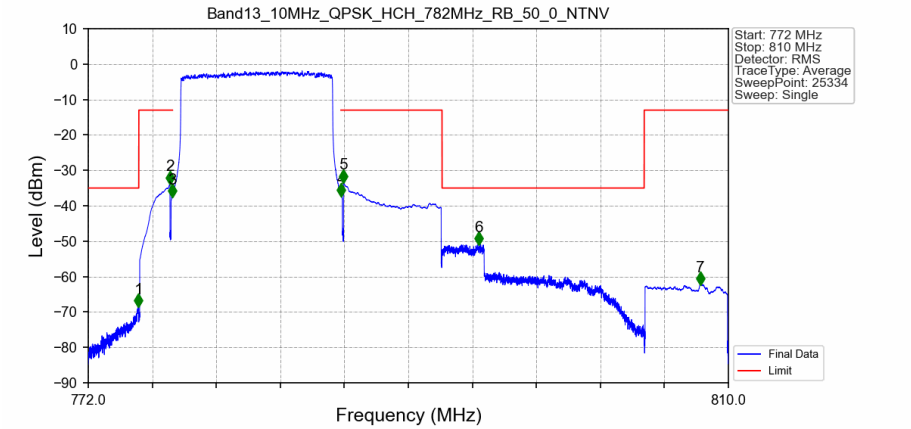
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.874	-72.09	-13	Pass
763	775	0.00625	CHP	2	774.988	-68.33	-35	Pass
775	776.9	0.1	CHP	3	776.850	-33.81	-13	Pass
776.9	777	0.03	CHP	4	776.994	-37.42	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.056	-37.04	-13	Pass
787.1	792	0.1	CHP	6	787.150	-33.35	-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	773.452	-82.94	-35	Pass
775	776.9	0.1	CHP	2	776.832	-52.81	-13	Pass
776.9	777	0.03	CHP	3	776.965	-57.15	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-22.00	-13	Pass
787.1	793	0.1	CHP	5	787.150	-20.45	-13	Pass
793	805	0.00625	CHP	6	793.593	-78.87	-35	Pass
805	810	0.1	CHP	7	806.853	-71.76	-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	774.972	-68.26	-35	Pass
775	776.9	0.1	CHP	2	776.850	-33.61	-13	Pass
776.9	777	0.03	CHP	3	776.992	-37.37	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.011	-37.07	-13	Pass
787.1	793	0.1	CHP	5	787.150	-33.17	-13	Pass
793	805	0.00625	CHP	6	795.190	-50.84	-35	Pass
805	810	0.1	CHP	7	808.327	-62.06	-13	Pass

- End of the Appendix -