



Appendix A.11

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B13_5MHz_ERP

Band: 13 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	779.5	1	0	22.64	4.45	24.94	<=34.77	Pass
			13	22.72	4.45	25.02	<=34.77	Pass
			24	22.43	4.45	24.73	<=34.77	Pass
		12	0	21.50	4.45	23.80	<=34.77	Pass
			6	21.56	4.45	23.86	<=34.77	Pass
			13	21.53	4.45	23.83	<=34.77	Pass
		25	0	21.61	4.45	23.91	<=34.77	Pass
	782	1	0	23.10	4.45	25.40	<=34.77	Pass
			13	22.56	4.45	24.86	<=34.77	Pass
			24	22.35	4.45	24.65	<=34.77	Pass
		12	0	21.52	4.45	23.82	<=34.77	Pass
			6	21.46	4.45	23.76	<=34.77	Pass
			13	21.35	4.45	23.65	<=34.77	Pass
		25	0	21.54	4.45	23.84	<=34.77	Pass
	784.5	1	0	22.56	4.45	24.86	<=34.77	Pass
			13	22.29	4.45	24.59	<=34.77	Pass
			24	22.40	4.45	24.70	<=34.77	Pass
		12	0	21.51	4.45	23.81	<=34.77	Pass
			6	21.25	4.45	23.55	<=34.77	Pass
			13	21.23	4.45	23.53	<=34.77	Pass
		25	0	21.43	4.45	23.73	<=34.77	Pass
16QAM	779.5	1	0	21.26	4.45	23.56	<=34.77	Pass
			13	21.36	4.45	23.66	<=34.77	Pass
			24	21.32	4.45	23.62	<=34.77	Pass
		12	0	20.20	4.45	22.50	<=34.77	Pass
			6	20.27	4.45	22.57	<=34.77	Pass
			13	20.34	4.45	22.64	<=34.77	Pass
		25	0	20.48	4.45	22.78	<=34.77	Pass
	782	1	0	21.42	4.45	23.72	<=34.77	Pass
			13	21.28	4.45	23.58	<=34.77	Pass
			24	21.15	4.45	23.45	<=34.77	Pass
		12	0	20.45	4.45	22.75	<=34.77	Pass
			6	20.42	4.45	22.72	<=34.77	Pass
			13	20.23	4.45	22.53	<=34.77	Pass
		25	0	20.38	4.45	22.68	<=34.77	Pass
	784.5	1	0	21.36	4.45	23.66	<=34.77	Pass
			13	21.14	4.45	23.44	<=34.77	Pass
			24	21.21	4.45	23.51	<=34.77	Pass



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		12	0	20.26	4.45	22.56	<=34.77	Pass
			6	20.22	4.45	22.52	<=34.77	Pass
			13	20.10	4.45	22.40	<=34.77	Pass
		25	0	20.21	4.45	22.51	<=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	22.57	4.45	24.87	<=34.77	Pass
			25	22.74	4.45	25.04	<=34.77	Pass
			49	22.33	4.45	24.63	<=34.77	Pass
		25	0	21.57	4.45	23.87	<=34.77	Pass
			13	21.44	4.45	23.74	<=34.77	Pass
			25	21.27	4.45	23.57	<=34.77	Pass
	50	0	21.50	4.45	23.80	<=34.77	Pass	
16QAM	782	1	0	21.33	4.45	23.63	<=34.77	Pass
			25	21.50	4.45	23.80	<=34.77	Pass
			49	20.90	4.45	23.20	<=34.77	Pass
		25	0	20.42	4.45	22.72	<=34.77	Pass
			13	20.49	4.45	22.79	<=34.77	Pass
			25	20.32	4.45	22.62	<=34.77	Pass
	50	0	20.34	4.45	22.64	<=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 (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	782	50	0	20	3.30	0.000	0.0000	-2.5 to 2.5	Pass
					3.80	0.900	0.0012	-2.5 to 2.5	Pass
					4.30	1.000	0.0013	-2.5 to 2.5	Pass
				-30	3.80	2.100	0.0027	-2.5 to 2.5	Pass
				-20	3.80	0.200	0.0003	-2.5 to 2.5	Pass
				-10	3.80	0.500	0.0006	-2.5 to 2.5	Pass
				0	3.80	0.000	0.0000	-2.5 to 2.5	Pass
				10	3.80	1.200	0.0015	-2.5 to 2.5	Pass
				30	3.80	-0.300	-0.0004	-2.5 to 2.5	Pass
				40	3.80	0.200	0.0003	-2.5 to 2.5	Pass
				50	3.80	1.500	0.0019	-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	4.492	/	Pass
	16QAM	782	25	0	4.499	/	Pass
10	QPSK	782	50	0	8.934	/	Pass
	16QAM	782	50	0	8.889	/	Pass

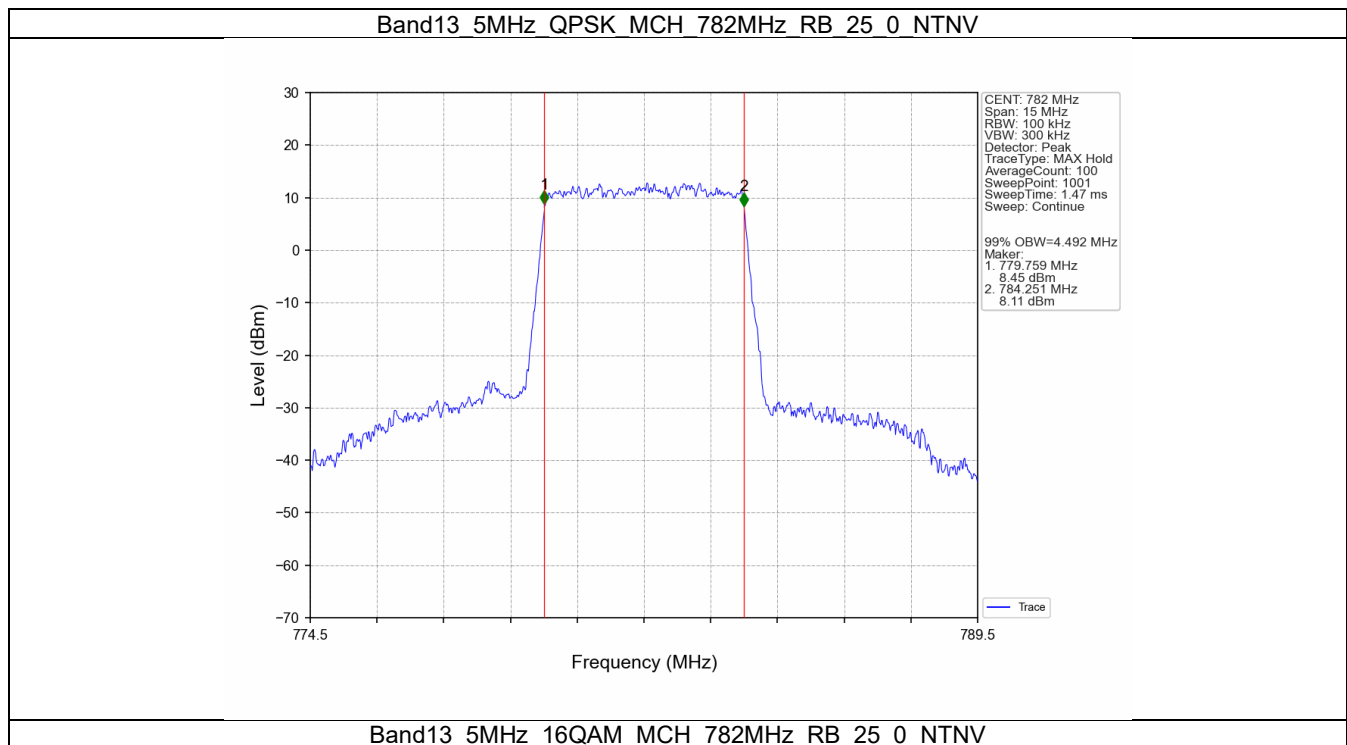
3.1.2 Band13_XDB

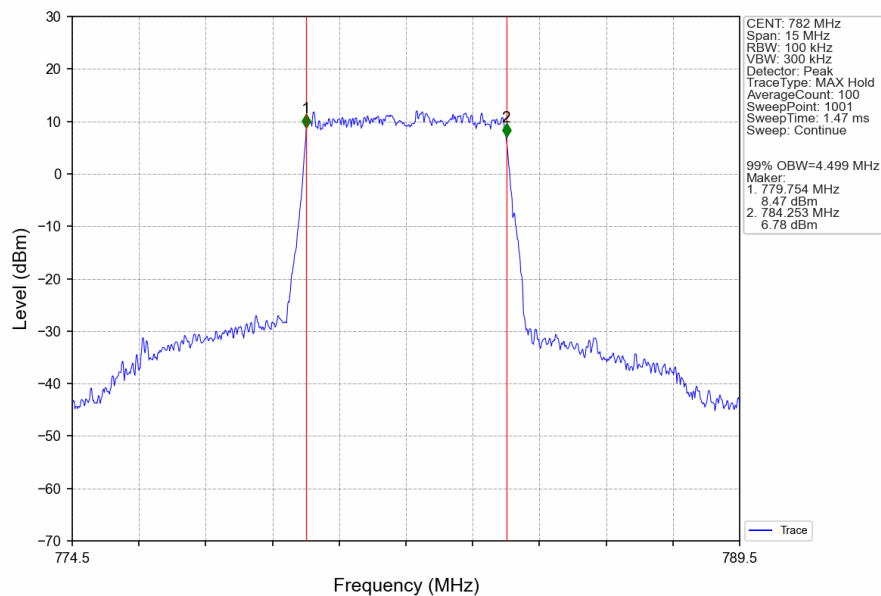
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	4.993	/	Pass
	16QAM	782	25	0	4.996	/	Pass
10	QPSK	782	50	0	9.515	/	Pass
	16QAM	782	50	0	9.630	/	Pass



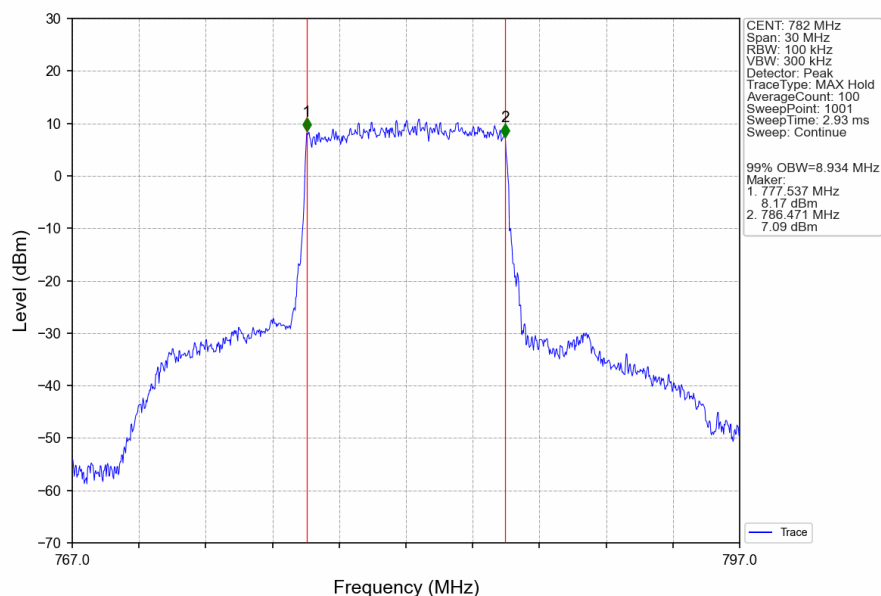
3.2 Test Graph

3.2.1 Band13_OBW

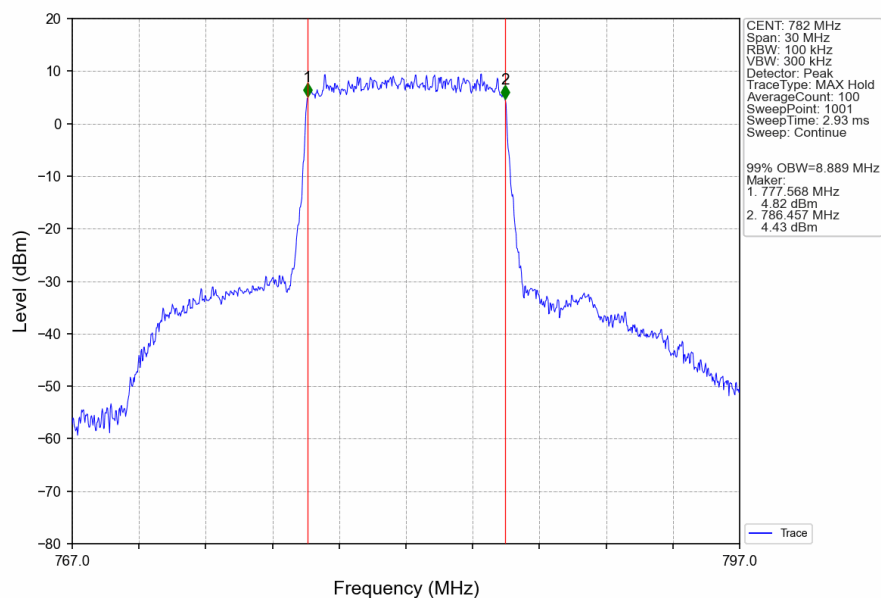




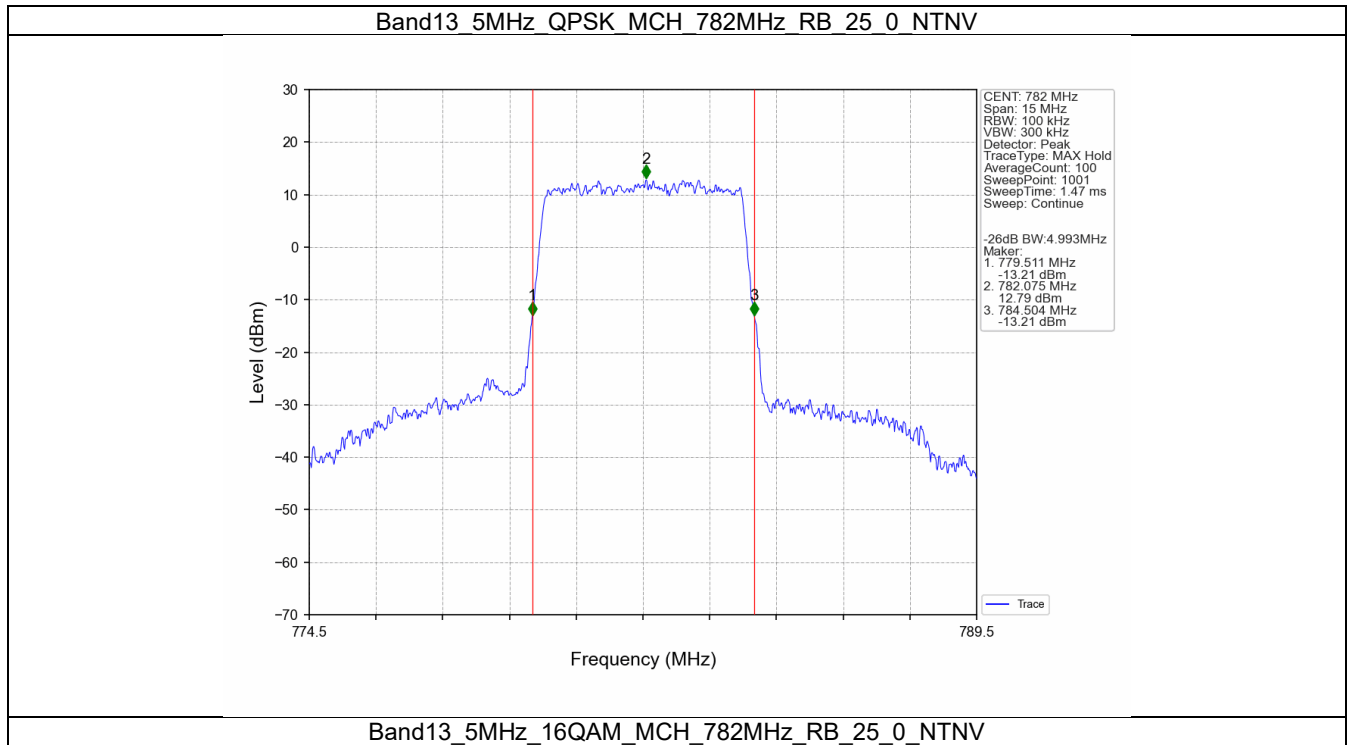
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV

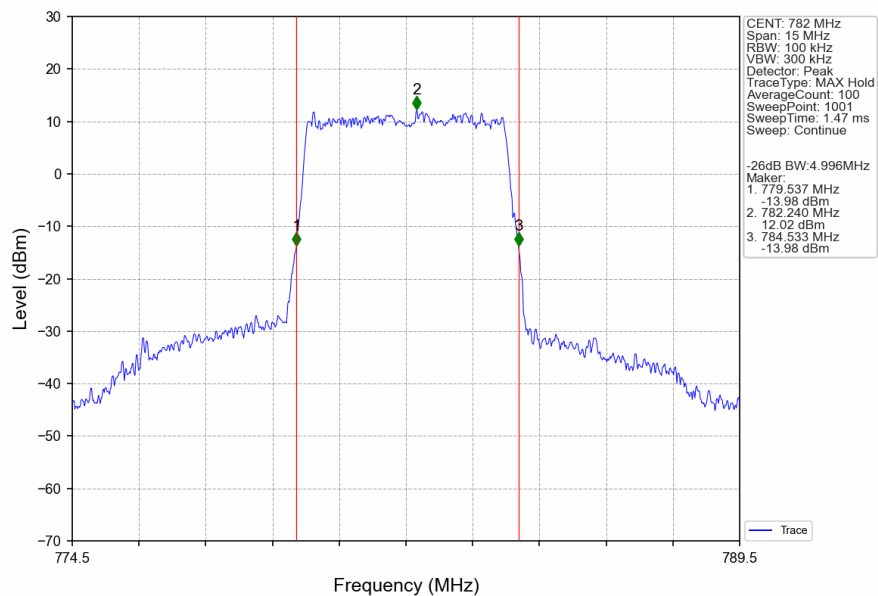


Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV

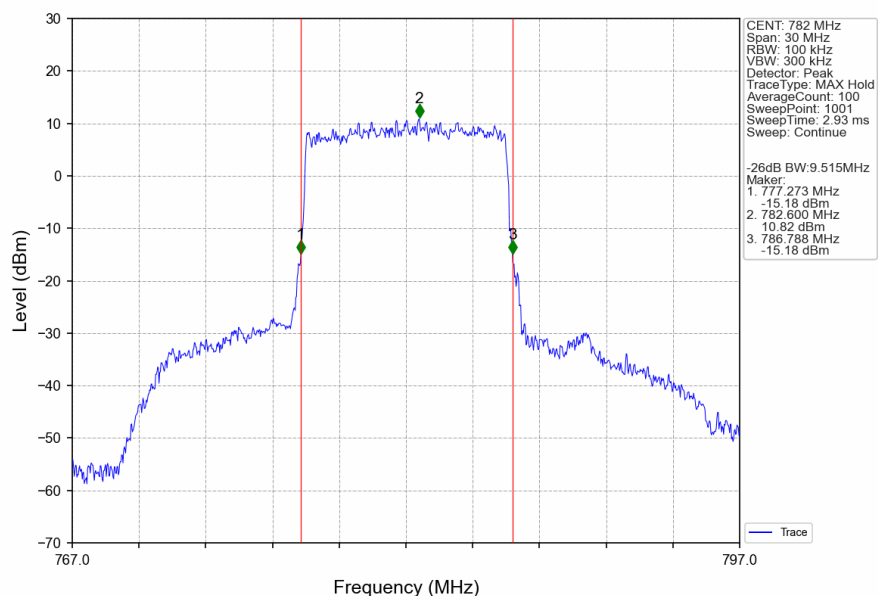


3.2.2 Band13_XDB

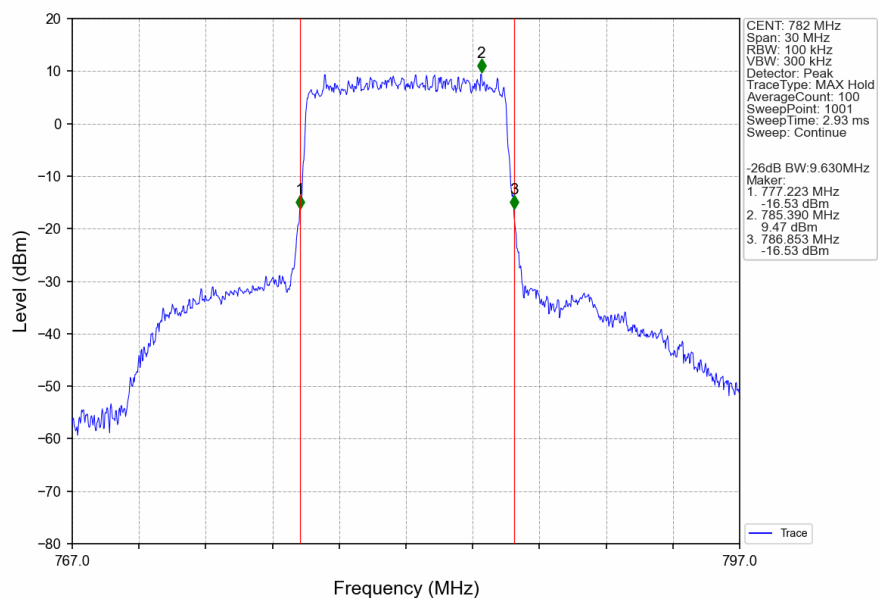




Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV





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4. Peak-Average Ratio

4.1 Test Result

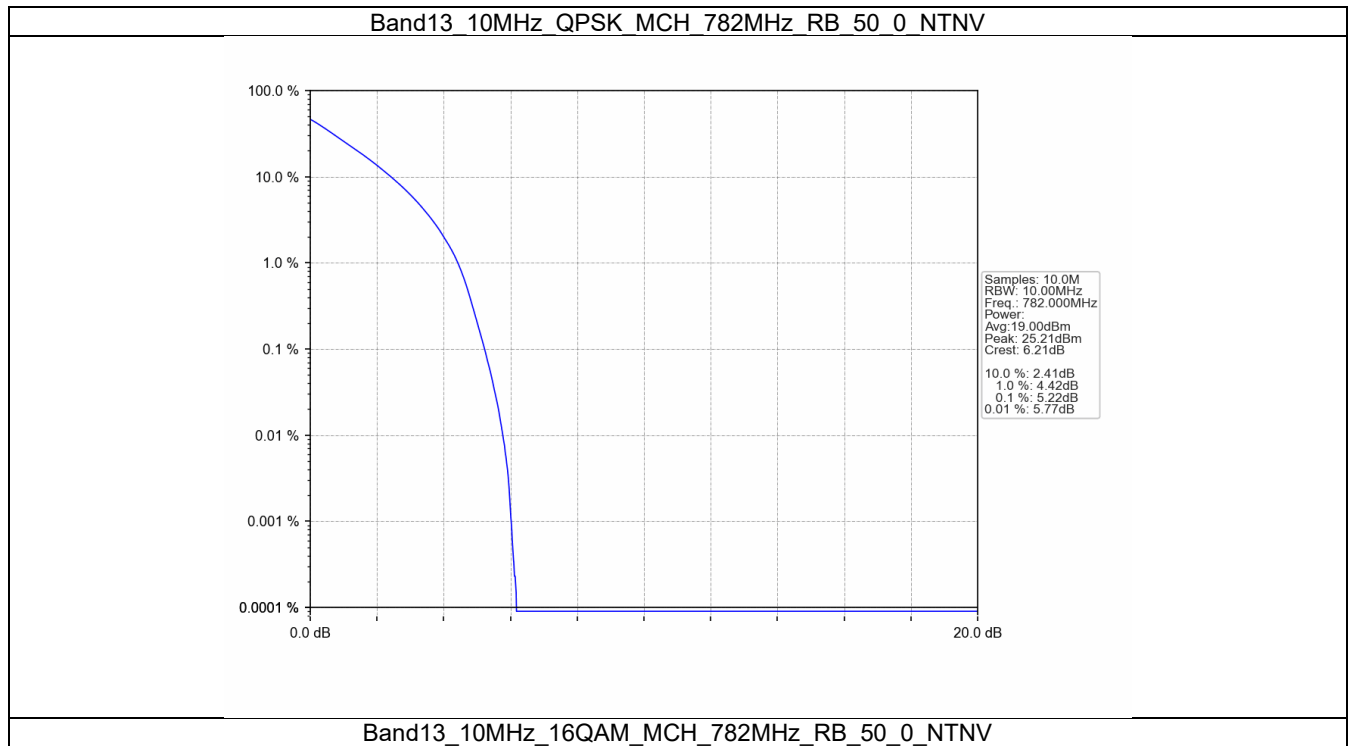
4.1.1 B13_10MHz

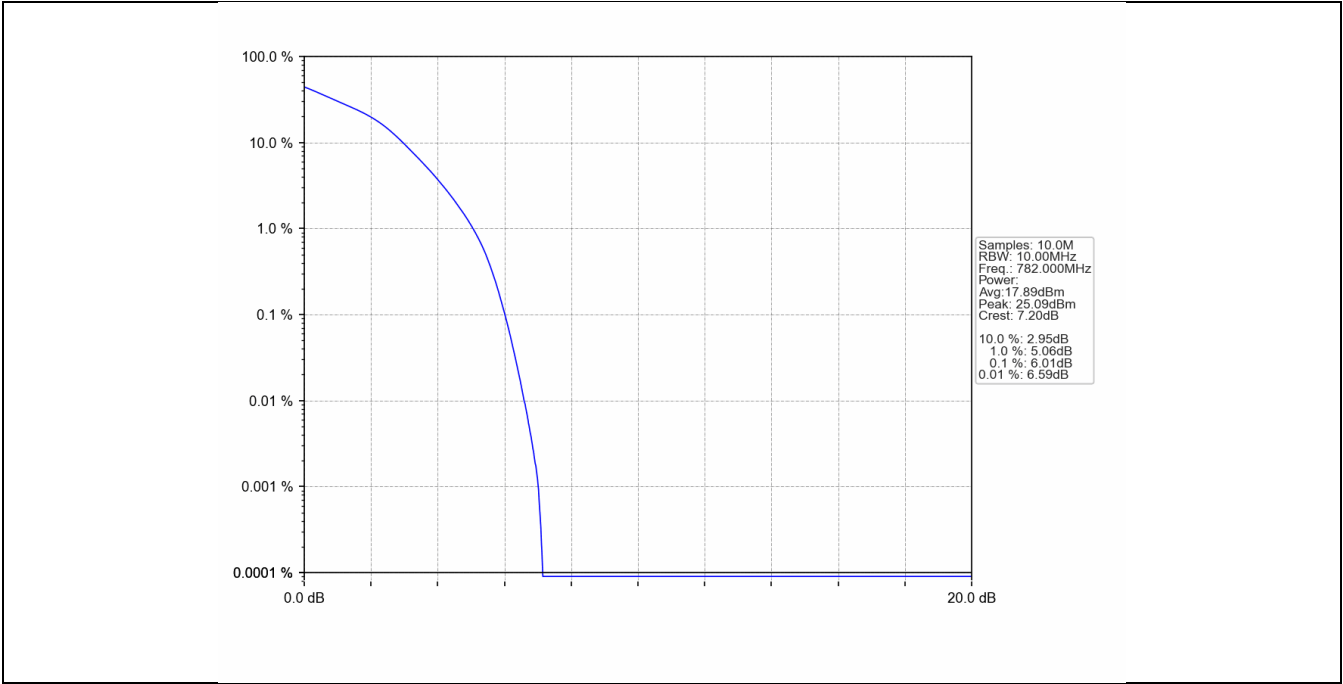
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.22	<=13	Pass
16QAM	782	50	0	6.01	<=13	Pass



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		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

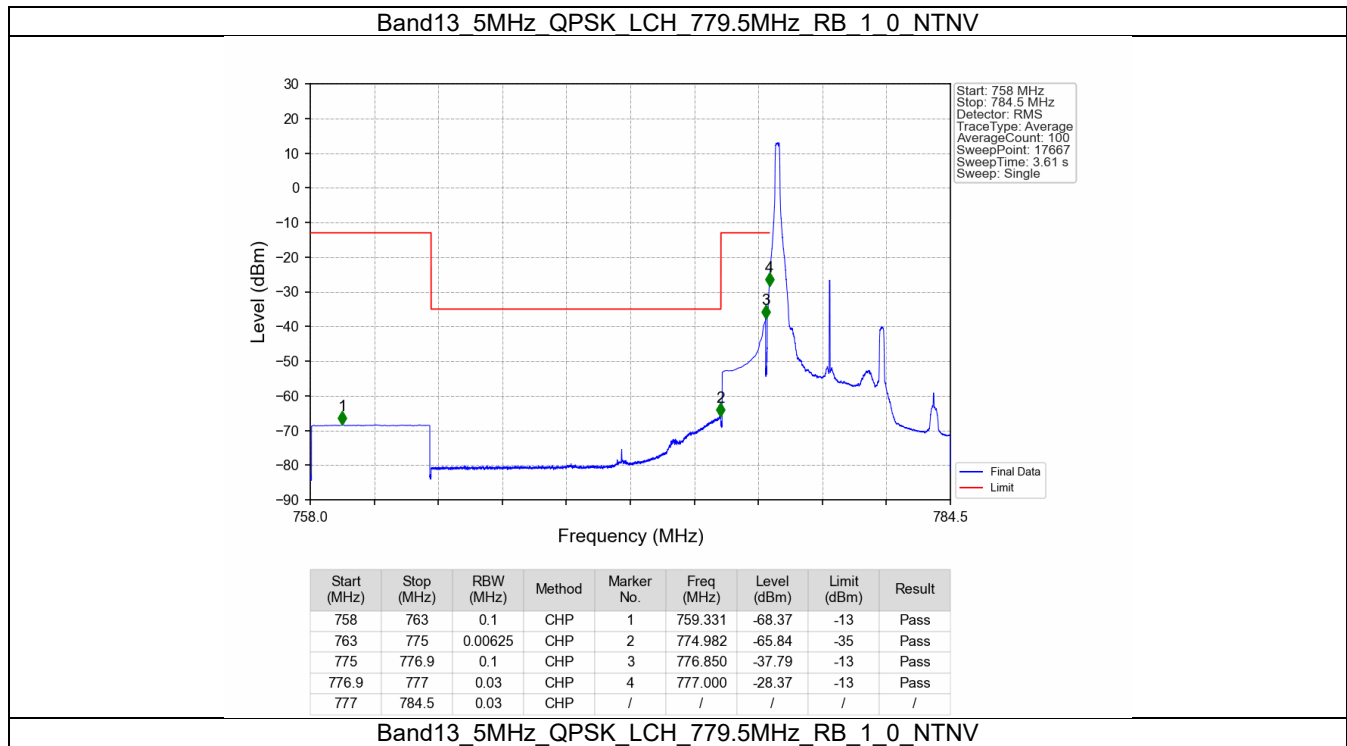
5.1.2 B13_10MHz

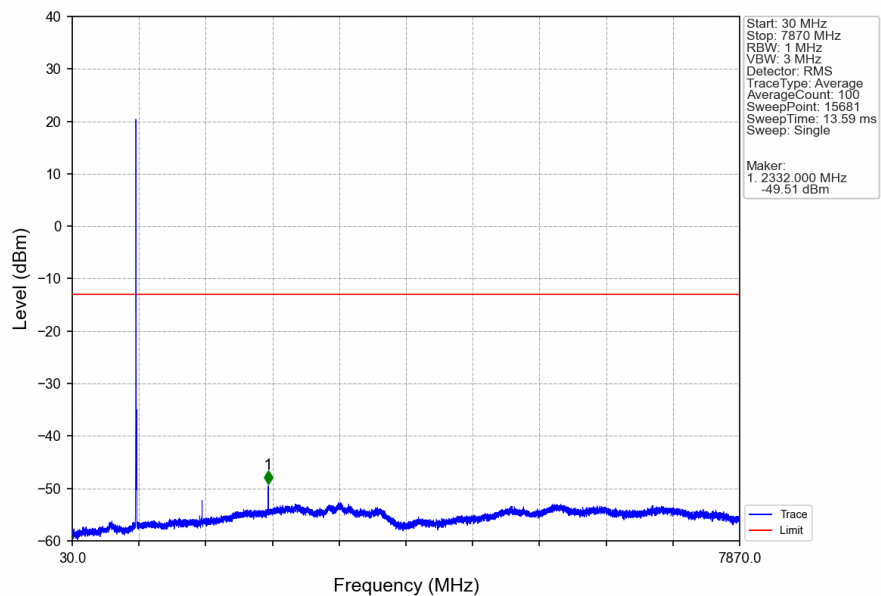
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



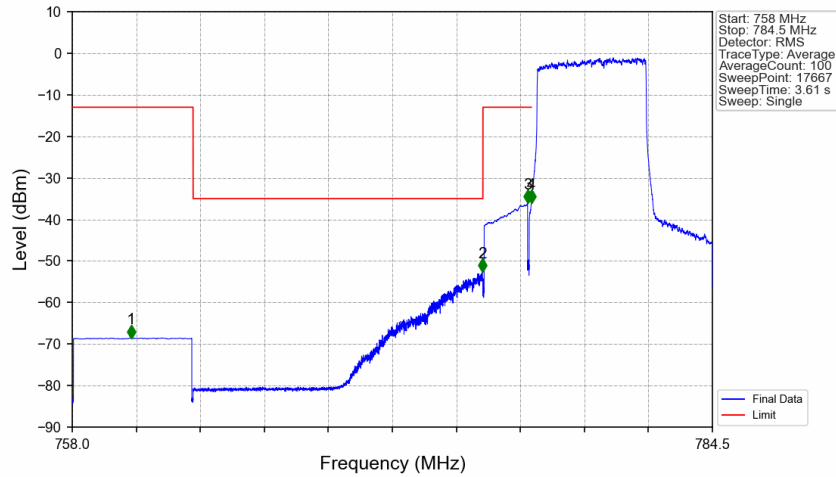
5.2 Test Graph

5.2.1 B13_5MHz



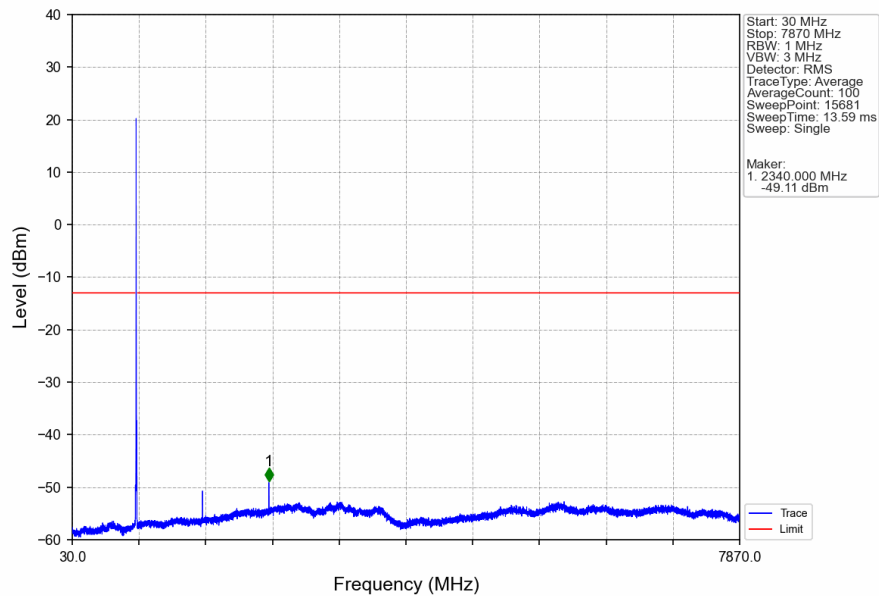


Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV

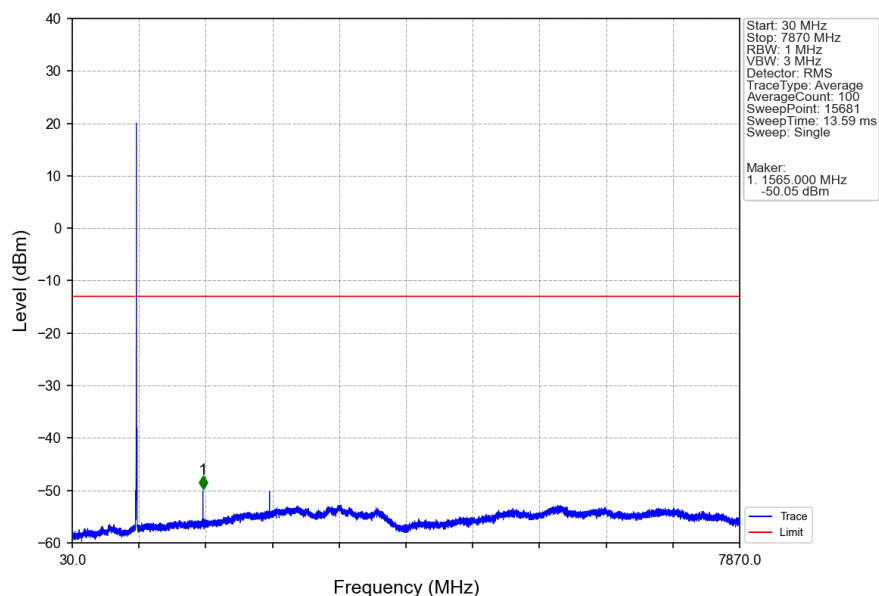


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.432	-68.54	-13	Pass
763	775	0.00625	CHP	2	774.973	-52.55	-35	Pass
775	776.9	0.1	CHP	3	776.847	-36.09	-13	Pass
776.9	777	0.03	CHP	4	777.000	-35.98	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

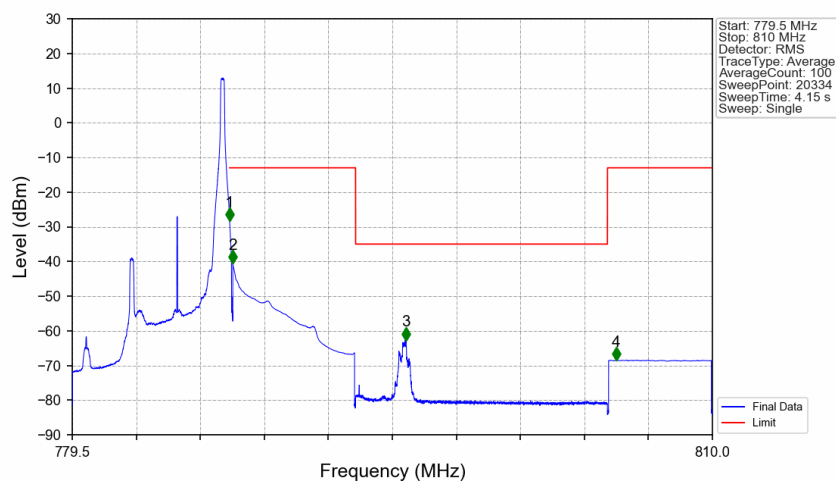
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV



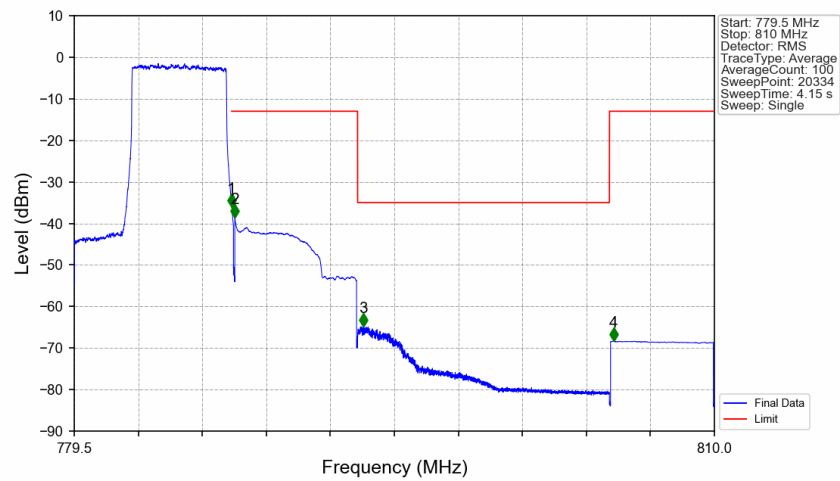
Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



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	-28.36	-13	Pass
787.1	793	0.1	CHP	2	787.150	-40.46	-13	Pass
793	805	0.00625	CHP	3	795.397	-62.72	-35	Pass
805	810	0.1	CHP	4	805.423	-68.45	-13	Pass

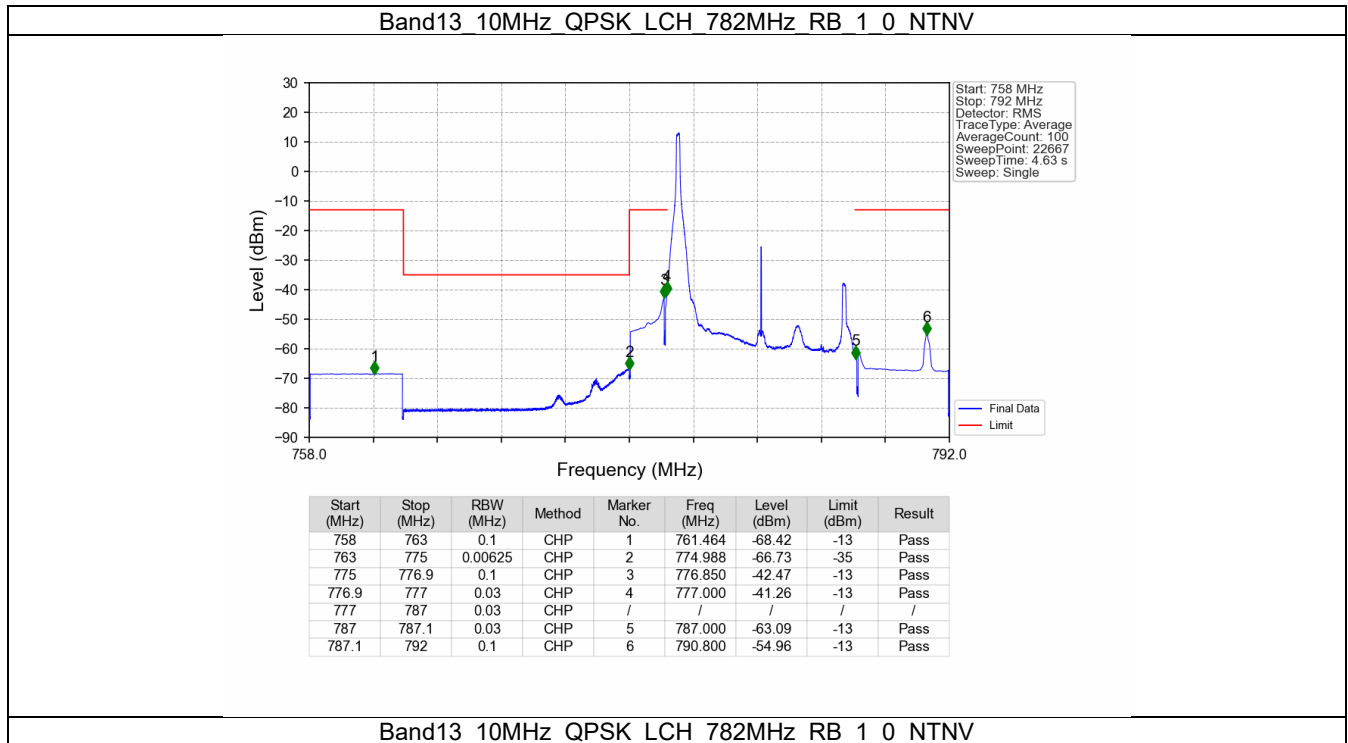


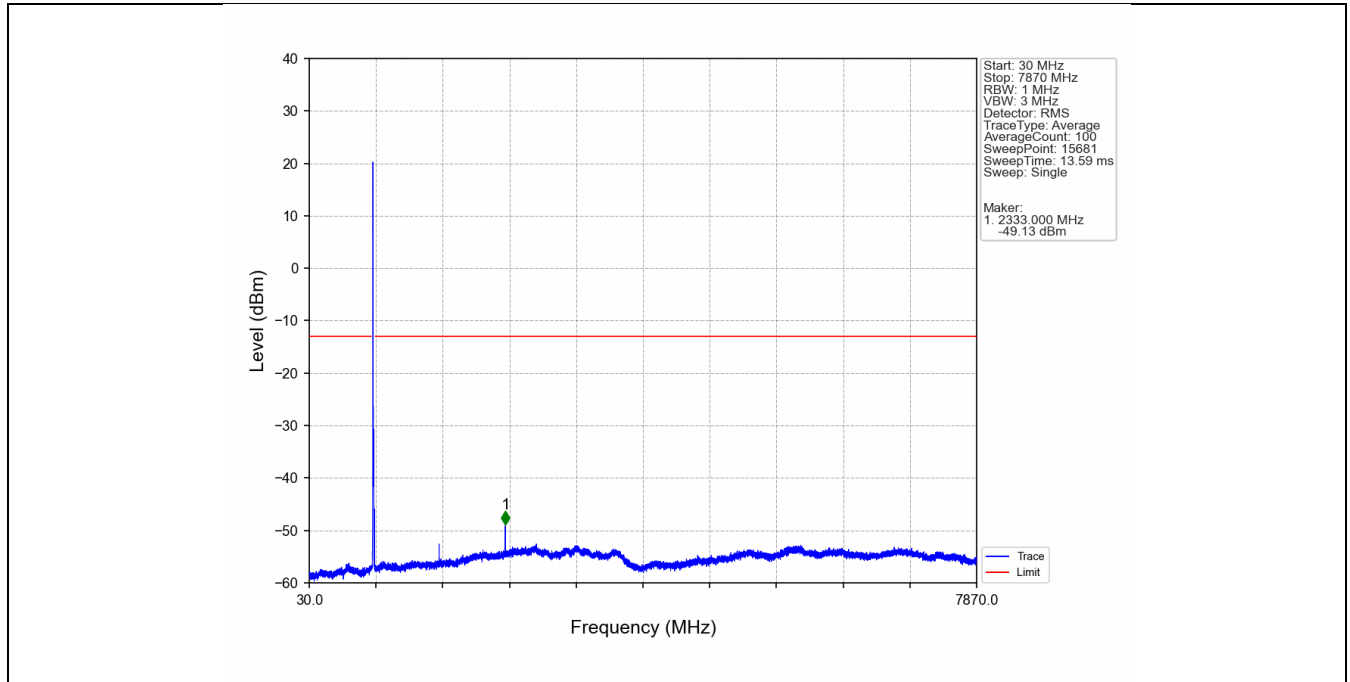
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



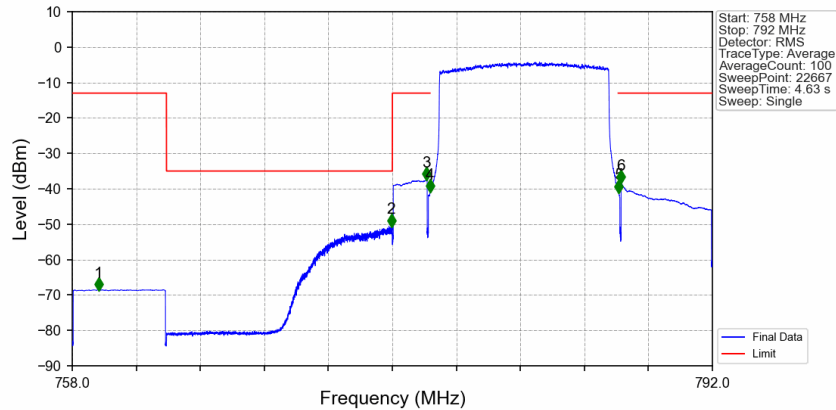
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-36.06	-13	Pass
787.1	793	0.1	CHP	2	787.150	-38.53	-13	Pass
793	805	0.00625	CHP	3	793.270	-64.76	-35	Pass
805	810	0.1	CHP	4	805.188	-68.32	-13	Pass

5.2.2 B13_10MHz



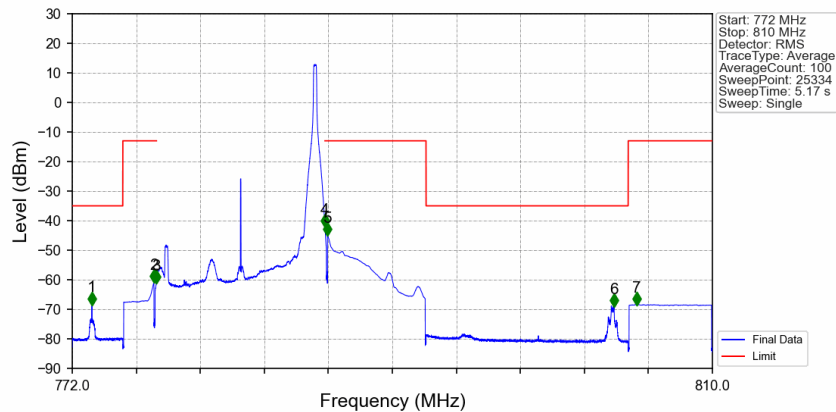


Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



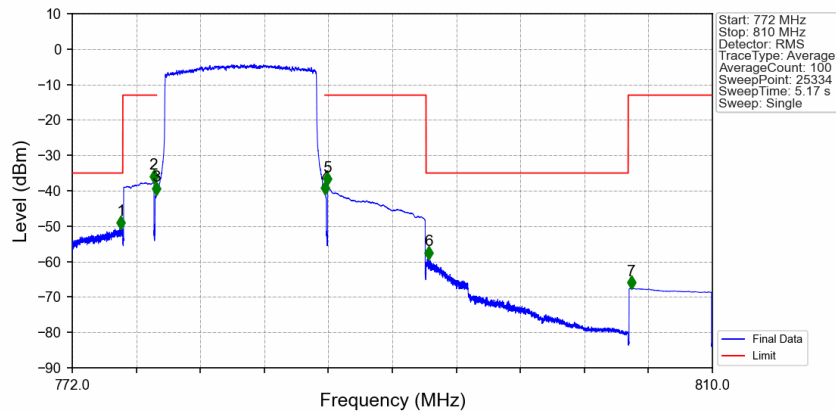
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.394	-68.50	-13	Pass
763	775	0.00625	CHP	2	774.944	-50.50	-35	Pass
775	776.9	0.1	CHP	3	776.815	-37.40	-13	Pass
776.9	777	0.03	CHP	4	777.000	-40.79	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.002	-40.84	-13	Pass
787.1	792	0.1	CHP	6	787.150	-38.18	-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	773.164	-68.24	-35	Pass
775	776.9	0.1	CHP	2	776.850	-60.59	-13	Pass
776.9	777	0.03	CHP	3	777.000	-60.95	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-41.88	-13	Pass
787.1	793	0.1	CHP	5	787.150	-44.80	-13	Pass
793	805	0.00625	CHP	6	804.160	-68.79	-35	Pass
805	810	0.1	CHP	7	805.486	-68.33	-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	774.883	-50.49	-35	Pass
775	776.9	0.1	CHP	2	776.830	-37.46	-13	Pass
776.9	777	0.03	CHP	3	776.991	-40.88	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.014	-40.71	-13	Pass
787.1	793	0.1	CHP	5	787.150	-38.26	-13	Pass
793	805	0.00625	CHP	6	793.152	-59.03	-35	Pass
805	810	0.1	CHP	7	805.194	-67.54	-13	Pass

- End of the Appendix -