

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	24.39	0.75	22.99	<=34.77	Pass
			13	24.25	0.75	22.85	<=34.77	Pass
			24	24.31	0.75	22.91	<=34.77	Pass
		12	0	23.87	0.75	22.47	<=34.77	Pass
			6	23.76	0.75	22.36	<=34.77	Pass
			13	23.74	0.75	22.34	<=34.77	Pass
		25	0	23.80	0.75	22.4	<=34.77	Pass
	782	1	0	24.24	0.75	22.84	<=34.77	Pass
			13	24.44	0.75	23.04	<=34.77	Pass
			24	24.47	0.75	23.07	<=34.77	Pass
		12	0	23.64	0.75	22.24	<=34.77	Pass
			6	23.78	0.75	22.38	<=34.77	Pass
			13	23.94	0.75	22.54	<=34.77	Pass
		25	0	23.82	0.75	22.42	<=34.77	Pass
	784.5	1	0	24.30	0.75	22.9	<=34.77	Pass
			13	24.37	0.75	22.97	<=34.77	Pass
			24	24.26	0.75	22.86	<=34.77	Pass
		12	0	23.72	0.75	22.32	<=34.77	Pass
			6	23.78	0.75	22.38	<=34.77	Pass
			13	23.81	0.75	22.41	<=34.77	Pass
		25	0	23.70	0.75	22.3	<=34.77	Pass
16QAM	779.5	1	0	23.77	0.75	22.37	<=34.77	Pass
			13	23.69	0.75	22.29	<=34.77	Pass
			24	23.74	0.75	22.34	<=34.77	Pass
		12	0	23.05	0.75	21.65	<=34.77	Pass
			6	22.93	0.75	21.53	<=34.77	Pass
			13	22.96	0.75	21.56	<=34.77	Pass
		25	0	23.11	0.75	21.71	<=34.77	Pass
	782	1	0	23.72	0.75	22.32	<=34.77	Pass
			13	23.91	0.75	22.51	<=34.77	Pass
			24	23.95	0.75	22.55	<=34.77	Pass
		12	0	22.94	0.75	21.54	<=34.77	Pass
			6	23.06	0.75	21.66	<=34.77	Pass
			13	23.22	0.75	21.82	<=34.77	Pass
		25	0	23.14	0.75	21.74	<=34.77	Pass
	784.5	1	0	23.53	0.75	22.13	<=34.77	Pass
			13	23.66	0.75	22.26	<=34.77	Pass
			24	23.56	0.75	22.16	<=34.77	Pass
		12	0	22.73	0.75	21.33	<=34.77	Pass
			6	22.78	0.75	21.38	<=34.77	Pass
			13	22.88	0.75	21.48	<=34.77	Pass
		25	0	22.75	0.75	21.35	<=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	24.32	0.75	22.92	<=34.77	Pass
			25	24.18	0.75	22.78	<=34.77	Pass
			49	24.31	0.75	22.91	<=34.77	Pass
		25	0	23.48	0.75	22.08	<=34.77	Pass
			13	23.62	0.75	22.22	<=34.77	Pass
			25	23.71	0.75	22.31	<=34.77	Pass
		50	0	23.64	0.75	22.24	<=34.77	Pass
16QAM	782	1	0	23.53	0.75	22.13	<=34.77	Pass
			25	23.59	0.75	22.19	<=34.77	Pass
			49	23.63	0.75	22.23	<=34.77	Pass
		25	0	22.75	0.75	21.35	<=34.77	Pass
			13	22.79	0.75	21.39	<=34.77	Pass
			25	22.89	0.75	21.49	<=34.77	Pass
		50	0	22.60	0.75	21.2	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B13_5MHz

Band: 13 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	779.5	25	0	20	3.27	-2.861	-0.0037	-2.5 to 2.5	Pass
					3.85	-4.807	-0.0062	-2.5 to 2.5	Pass
					4.43	-3.762	-0.0048	-2.5 to 2.5	Pass
				-30	3.85	-2.174	-0.0028	-2.5 to 2.5	Pass
				-20	3.85	-2.561	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-1.960	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-4.849	-0.0062	-2.5 to 2.5	Pass
				10	3.85	-0.744	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				40	3.85	-2.546	-0.0033	-2.5 to 2.5	Pass
				50	3.85	-1.173	-0.0015	-2.5 to 2.5	Pass
	782	25	0	20	3.27	-4.077	-0.0052	-2.5 to 2.5	Pass
					3.85	-2.289	-0.0029	-2.5 to 2.5	Pass
					4.43	-1.302	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-4.878	-0.0062	-2.5 to 2.5	Pass
				-20	3.85	-2.961	-0.0038	-2.5 to 2.5	Pass
				-10	3.85	-1.030	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-1.431	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-0.873	-0.0011	-2.5 to 2.5	Pass
				30	3.85	0.358	0.0005	-2.5 to 2.5	Pass
				40	3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
				50	3.85	-3.147	-0.0040	-2.5 to 2.5	Pass
	784.5	25	0	20	3.27	-6.495	-0.0083	-2.5 to 2.5	Pass
					3.85	-3.633	-0.0046	-2.5 to 2.5	Pass

16QAM	779.5	25	0		4.43	-4.063	-0.0052	-2.5 to 2.5	Pass
				-30	3.85	-5.593	-0.0071	-2.5 to 2.5	Pass
				-20	3.85	-3.877	-0.0049	-2.5 to 2.5	Pass
				-10	3.85	-0.887	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-4.535	-0.0058	-2.5 to 2.5	Pass
				10	3.85	-5.007	-0.0064	-2.5 to 2.5	Pass
				30	3.85	-1.802	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-3.762	-0.0048	-2.5 to 2.5	Pass
				50	3.85	-4.306	-0.0055	-2.5 to 2.5	Pass
				20	3.27	-0.687	-0.0009	-2.5 to 2.5	Pass
					3.85	-3.047	-0.0039	-2.5 to 2.5	Pass
					4.43	-6.480	-0.0083	-2.5 to 2.5	Pass
				-30	3.85	-2.046	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	-1.502	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-4.077	-0.0052	-2.5 to 2.5	Pass
				0	3.85	-1.960	-0.0025	-2.5 to 2.5	Pass
				10	3.85	-3.848	-0.0049	-2.5 to 2.5	Pass
				30	3.85	-4.449	-0.0057	-2.5 to 2.5	Pass
				40	3.85	-1.931	-0.0025	-2.5 to 2.5	Pass
				50	3.85	-1.044	-0.0013	-2.5 to 2.5	Pass
16QAM	782	25	0	20	3.27	-1.516	-0.0019	-2.5 to 2.5	Pass
					3.85	-0.801	-0.0010	-2.5 to 2.5	Pass
					4.43	-3.676	-0.0047	-2.5 to 2.5	Pass
				-30	3.85	-1.659	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	-3.662	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-3.991	-0.0051	-2.5 to 2.5	Pass
				0	3.85	-1.960	-0.0025	-2.5 to 2.5	Pass
				10	3.85	-3.576	-0.0046	-2.5 to 2.5	Pass
				30	3.85	-1.273	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-1.245	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-2.646	-0.0034	-2.5 to 2.5	Pass
				20	3.27	-3.490	-0.0044	-2.5 to 2.5	Pass
					3.85	-9.556	-0.0122	-2.5 to 2.5	Pass
					4.43	-1.516	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-2.389	-0.0030	-2.5 to 2.5	Pass
				-20	3.85	1.230	0.0016	-2.5 to 2.5	Pass
				-10	3.85	-4.520	-0.0058	-2.5 to 2.5	Pass
				0	3.85	-2.704	-0.0034	-2.5 to 2.5	Pass
				10	3.85	-4.506	-0.0057	-2.5 to 2.5	Pass
				30	3.85	-6.952	-0.0089	-2.5 to 2.5	Pass
				40	3.85	-4.463	-0.0057	-2.5 to 2.5	Pass
				50	3.85	-3.991	-0.0051	-2.5 to 2.5	Pass

2.1.2 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	3.27	-4.005	-0.0051	-2.5 to 2.5	Pass
					3.85	-2.360	-0.0030	-2.5 to 2.5	Pass
					4.43	-2.575	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	-2.217	-0.0028	-2.5 to 2.5	Pass
				-20	3.85	-3.734	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-4.177	-0.0053	-2.5 to 2.5	Pass
				0	3.85	-1.202	-0.0015	-2.5 to 2.5	Pass
				10	3.85	0.615	0.0008	-2.5 to 2.5	Pass
				30	3.85	-0.644	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-2.990	-0.0038	-2.5 to 2.5	Pass

				50	3.85	-2.217	-0.0028	-2.5 to 2.5	Pass
16QAM	782	50	0	20	3.27	-2.604	-0.0033	-2.5 to 2.5	Pass
					3.85	-1.903	-0.0024	-2.5 to 2.5	Pass
					4.43	-1.287	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-1.988	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-3.633	-0.0046	-2.5 to 2.5	Pass
				-10	3.85	-1.159	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-2.761	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-3.161	-0.0040	-2.5 to 2.5	Pass
				30	3.85	-2.117	-0.0027	-2.5 to 2.5	Pass
				40	3.85	-2.904	-0.0037	-2.5 to 2.5	Pass
				50	3.85	-2.589	-0.0033	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B13_5MHz

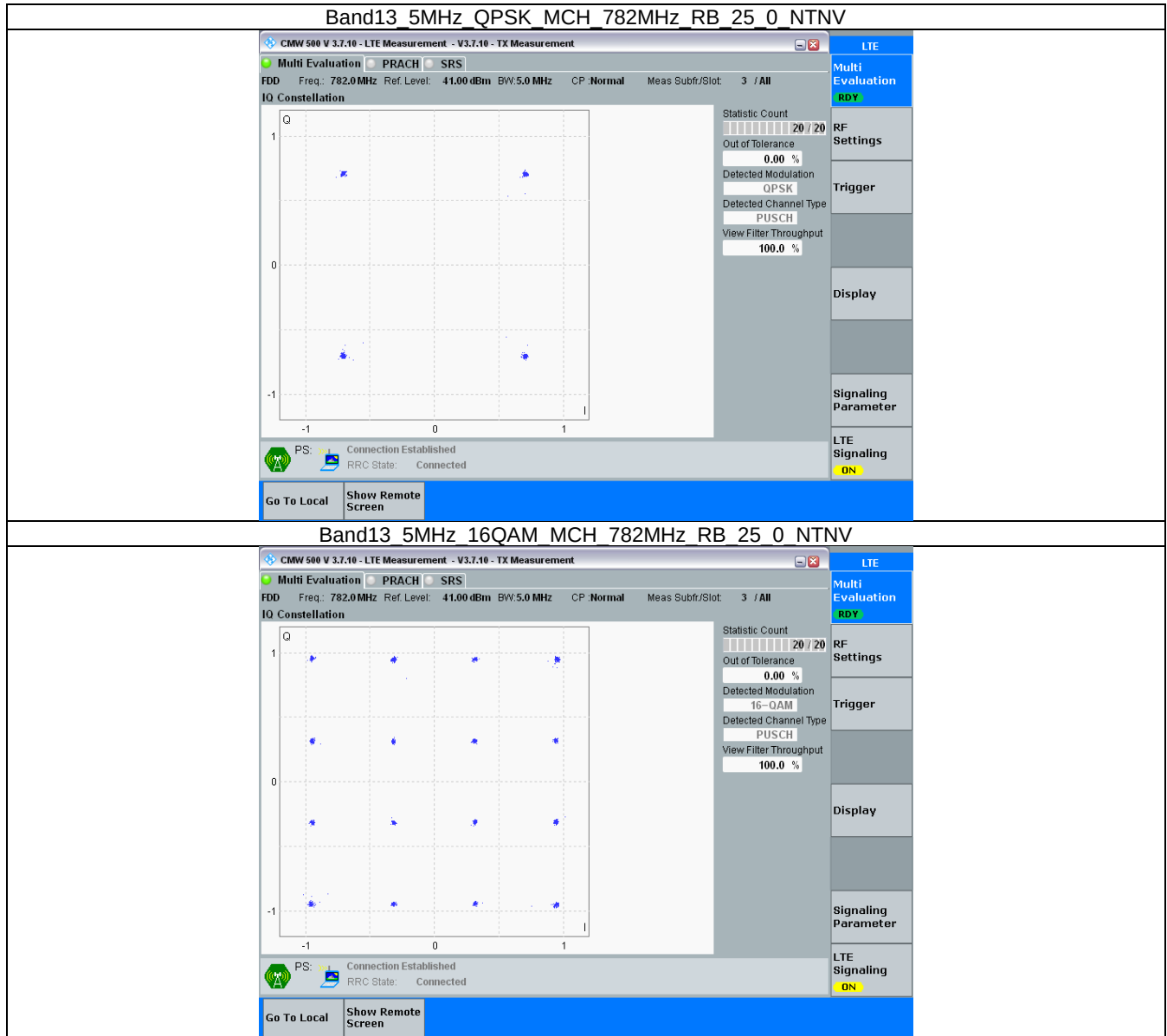
Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	782	25	0	Refer To Test Graph		Pass
16QAM	782	25	0	Refer To Test Graph		Pass

3.1.2 B13_10MHz

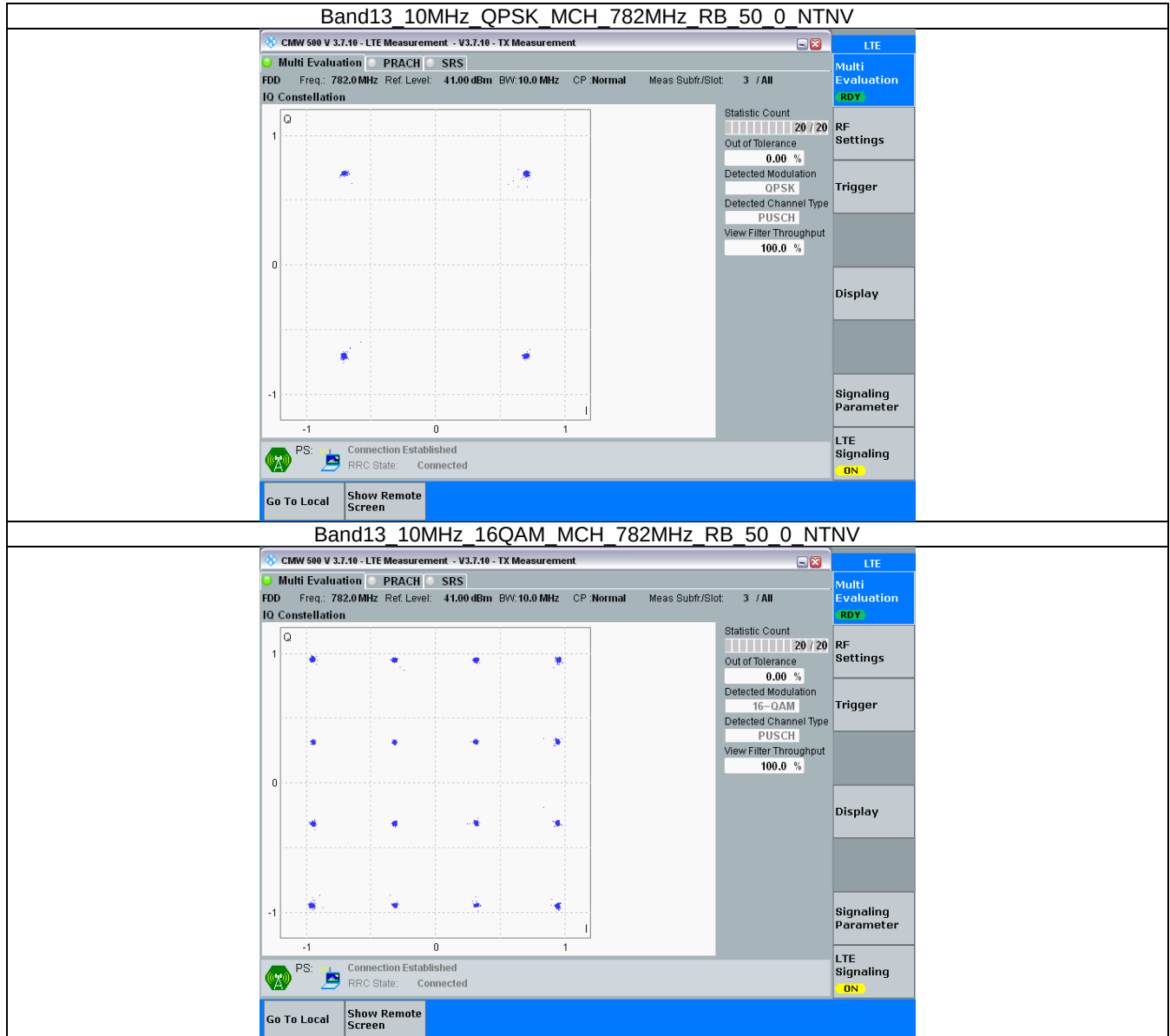
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Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	Refer To Test Graph		Pass
16QAM	782	50	0	Refer To Test Graph		Pass

3.2 Test Graph

3.2.1 B13_5MHz



3.2.2 B13_10MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band13_OBW

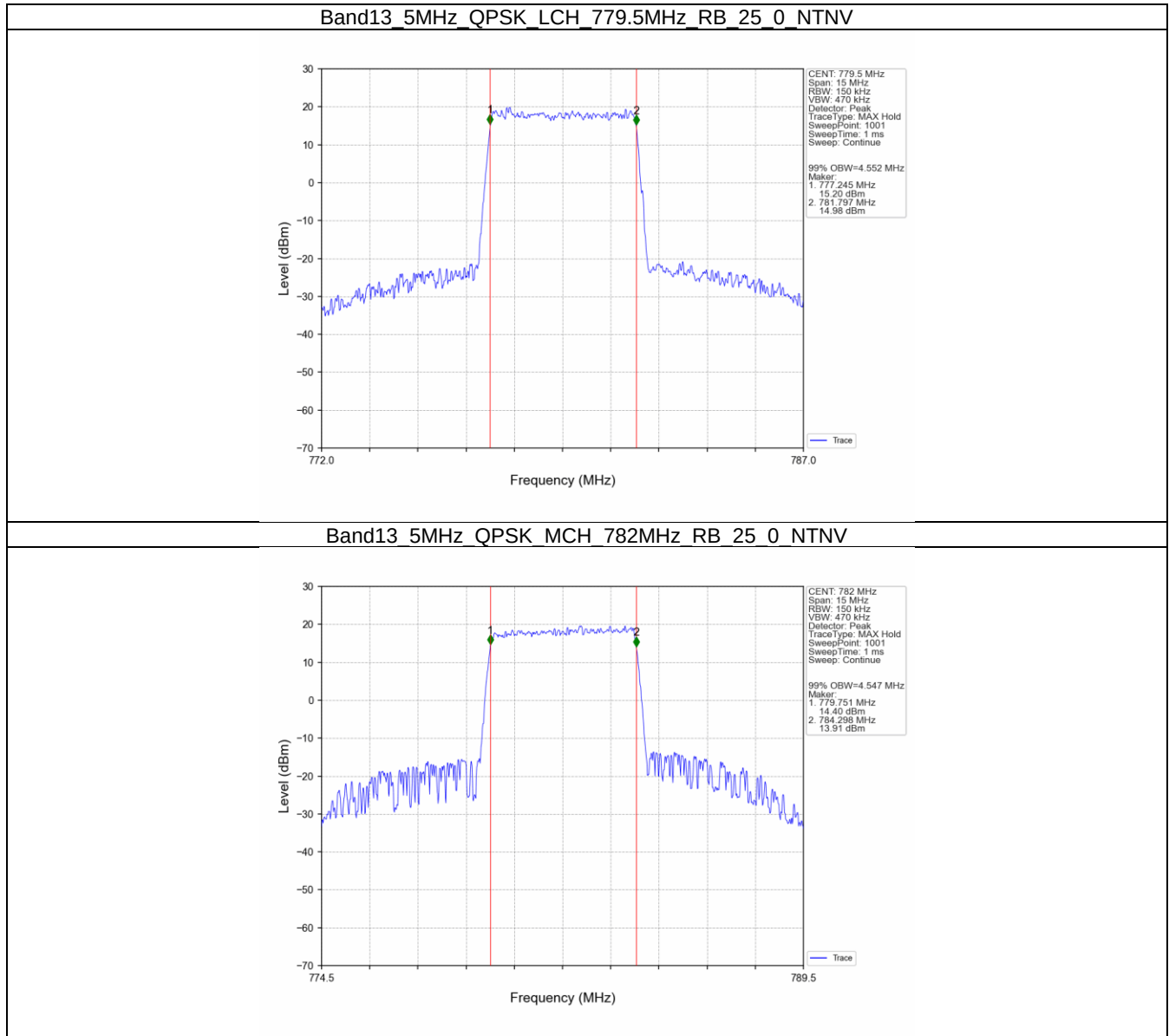
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	4.552	/	Pass
		782	25	0	4.547	/	Pass
		784.5	25	0	4.531	/	Pass
	16QAM	779.5	25	0	4.555	/	Pass
		782	25	0	4.547	/	Pass
		784.5	25	0	4.520	/	Pass
10	QPSK	782	50	0	9.039	/	Pass
	16QAM	782	50	0	9.043	/	Pass

4.1.2 Band13_XDB

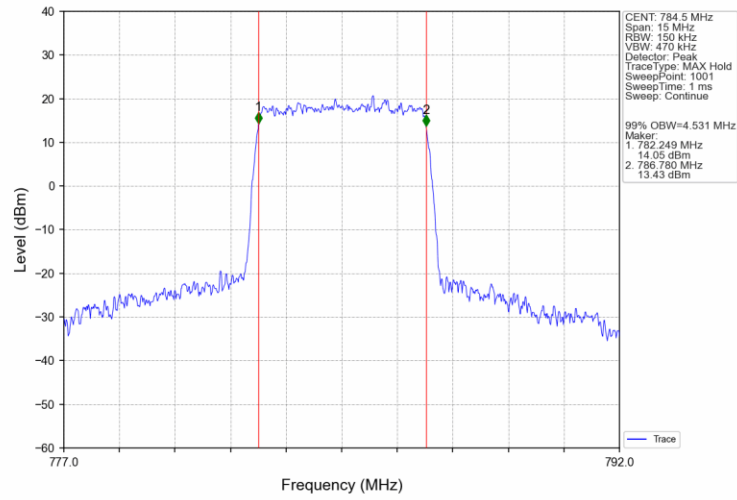
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	5.006	/	Pass
		782	25	0	5.004	/	Pass
		784.5	25	0	4.965	/	Pass
	16QAM	779.5	25	0	5.011	/	Pass
		782	25	0	5.009	/	Pass
		784.5	25	0	4.972	/	Pass
10	QPSK	782	50	0	10.176	/	Pass
	16QAM	782	50	0	9.911	/	Pass

4.2 Test Graph

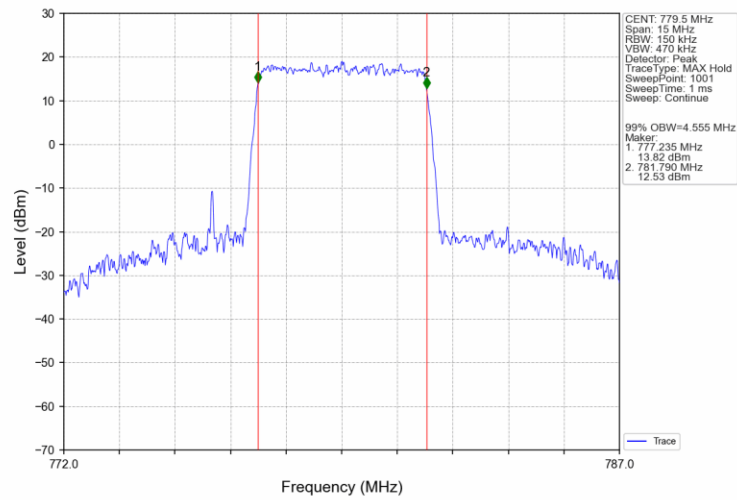
4.2.1 Band13_OBW



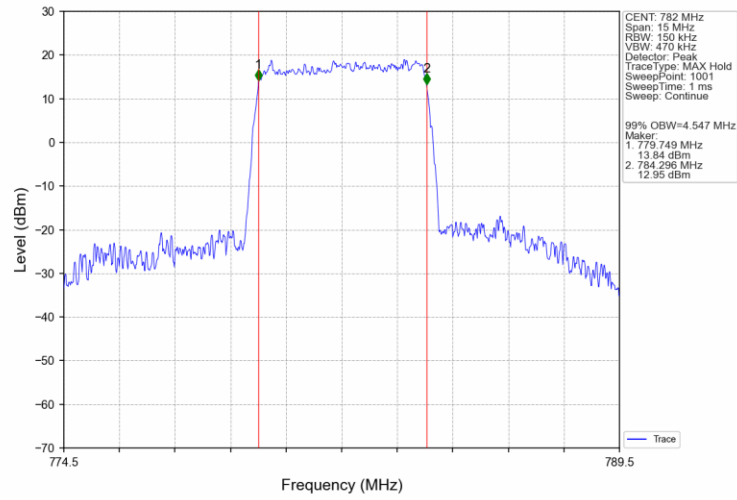
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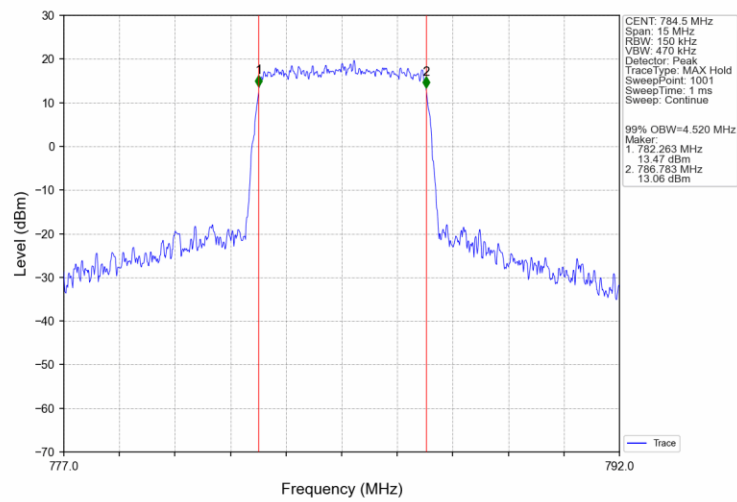
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



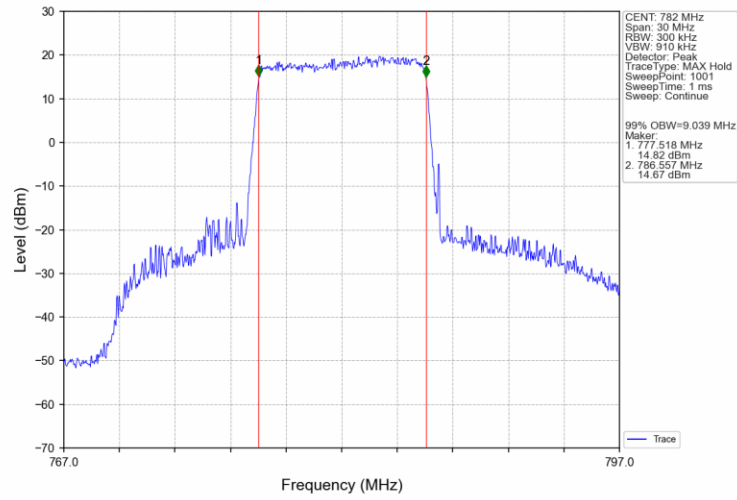
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



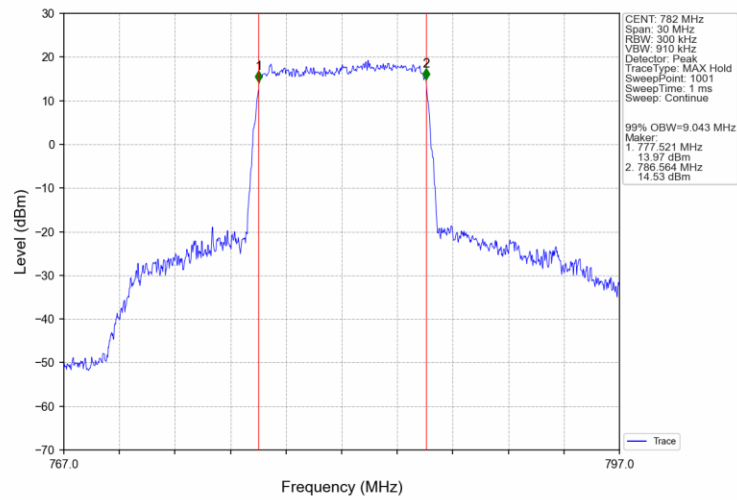
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV

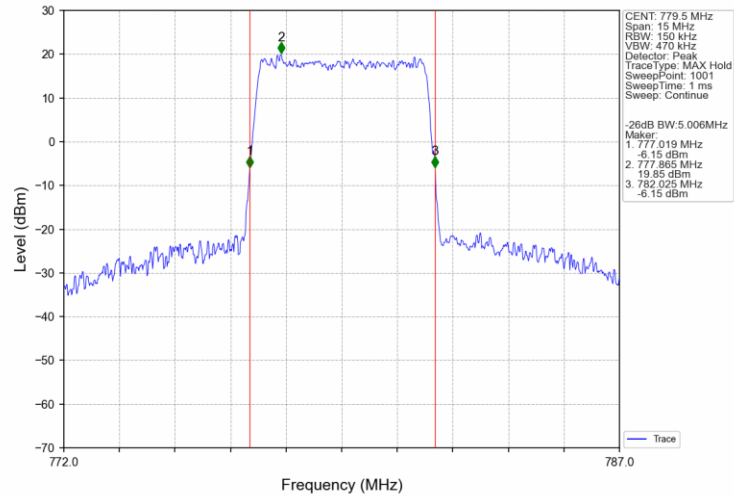


Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV

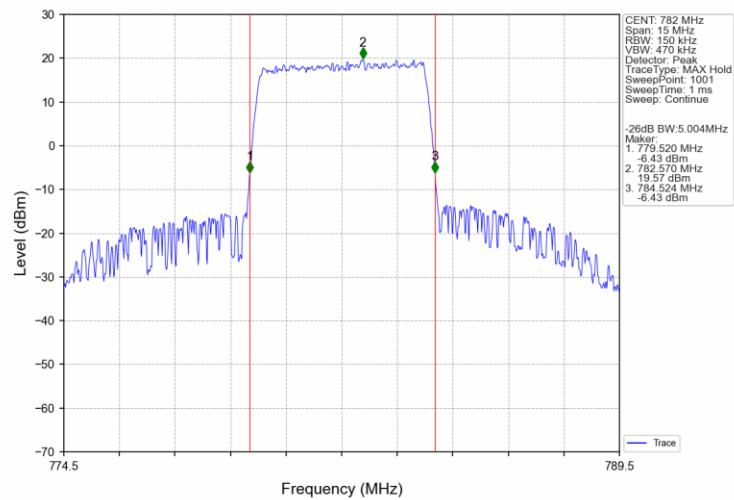


4.2.2 Band13_XDB

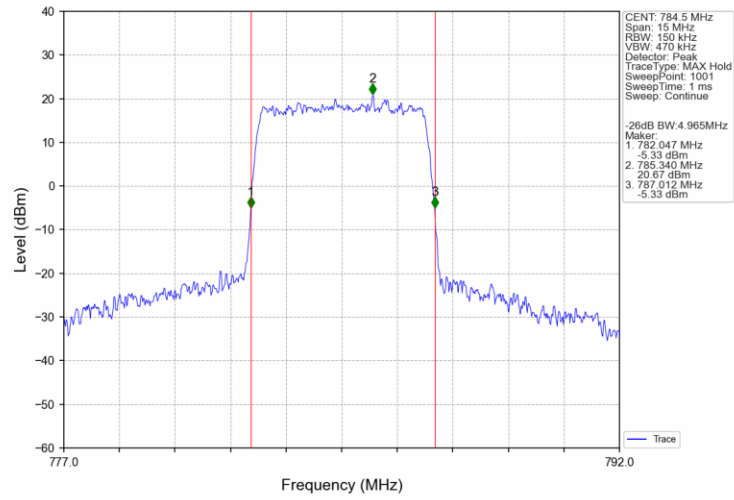
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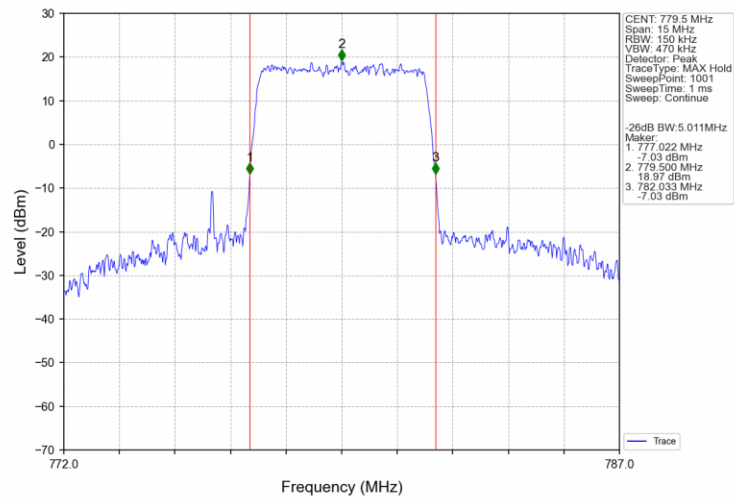
Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



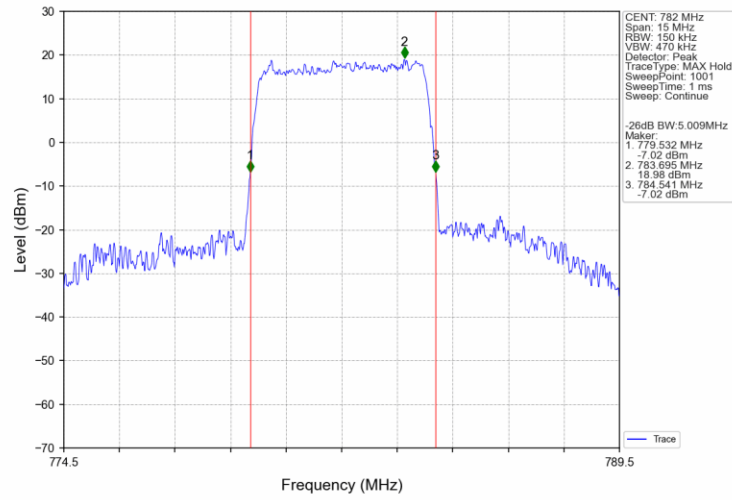
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



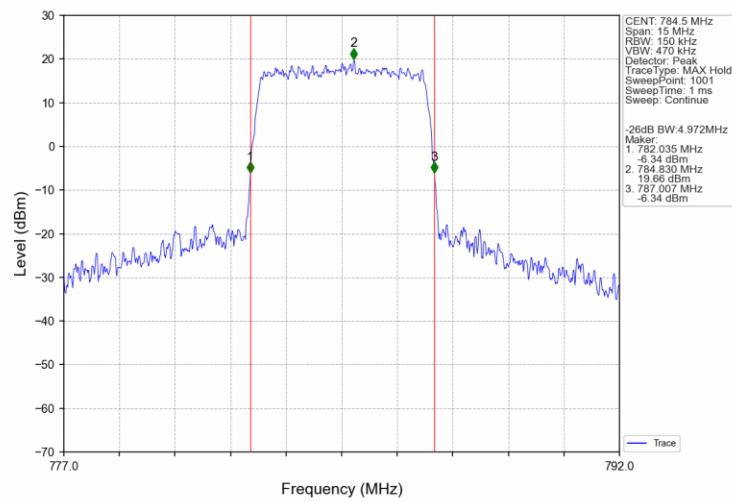
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



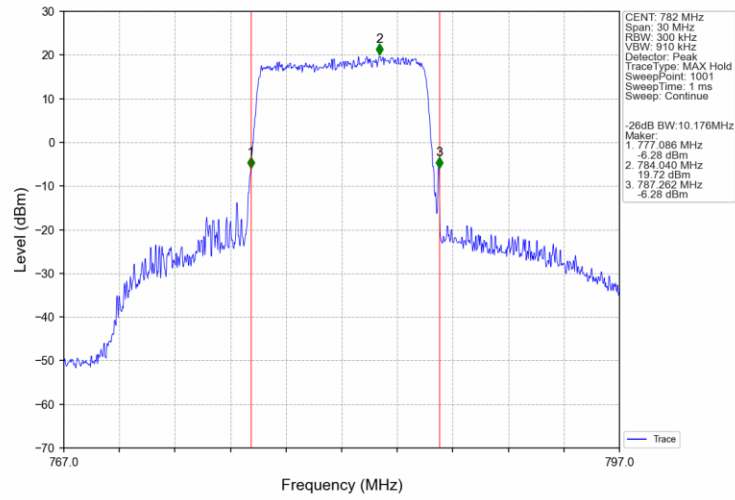
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



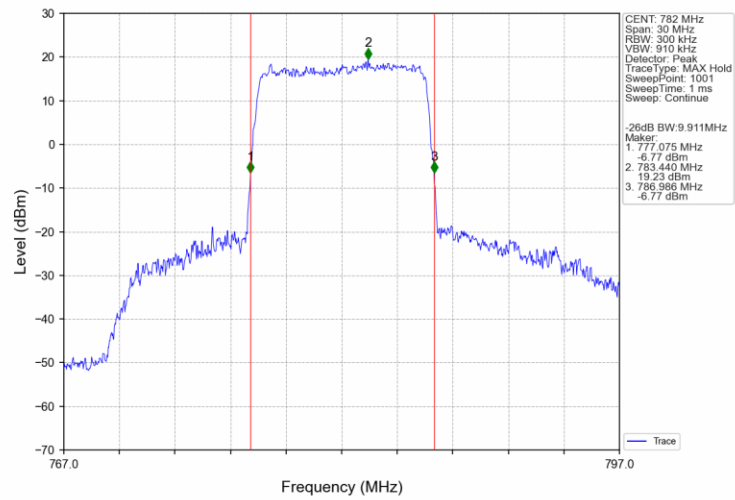
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B13_5MHz

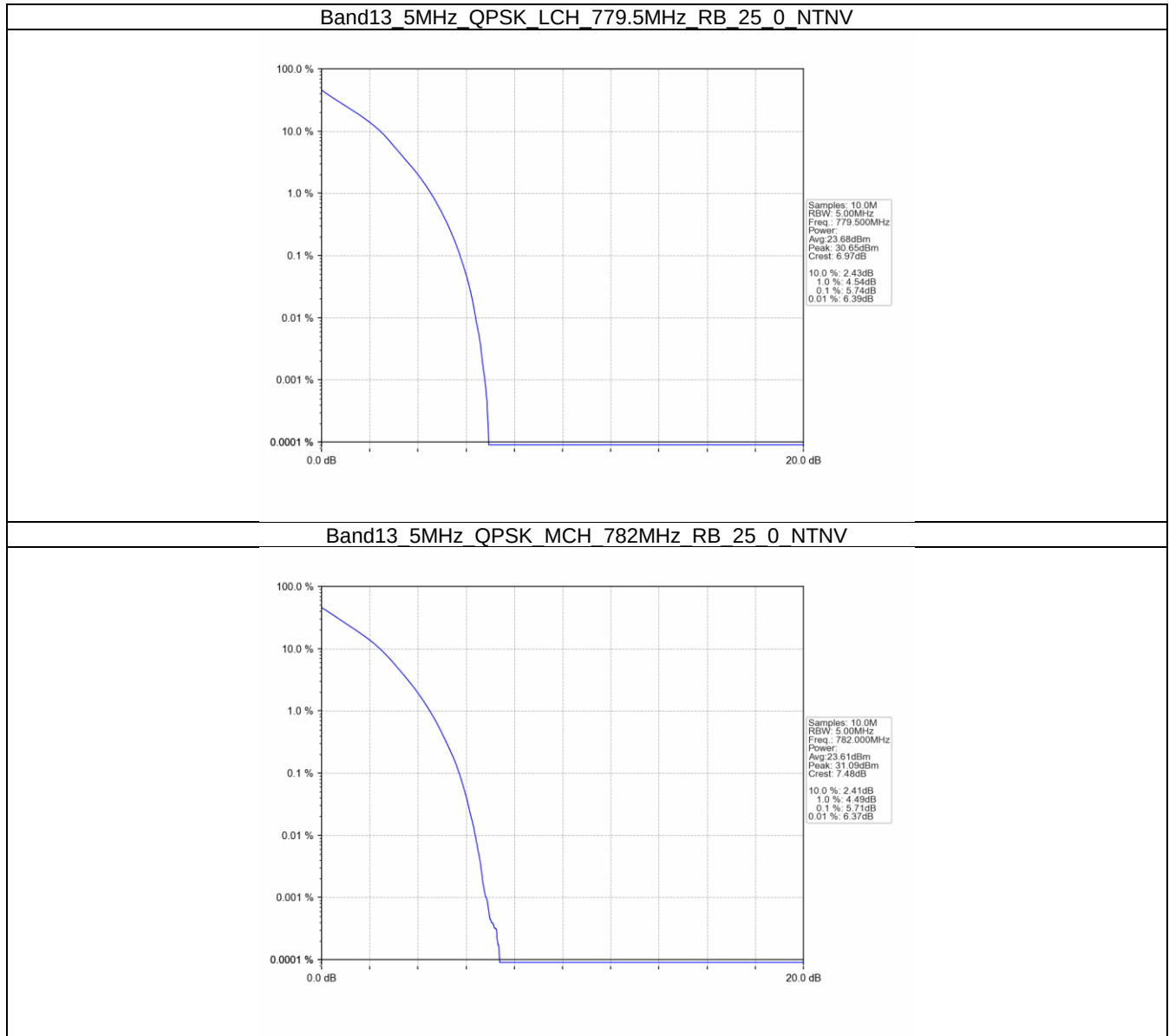
Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	25	0	5.74	<=13	Pass
	782	25	0	5.71	<=13	Pass
	784.5	25	0	5.52	<=13	Pass
16QAM	779.5	25	0	6.44	<=13	Pass
	782	25	0	6.36	<=13	Pass
	784.5	25	0	6.18	<=13	Pass

5.1.2 B13_10MHz

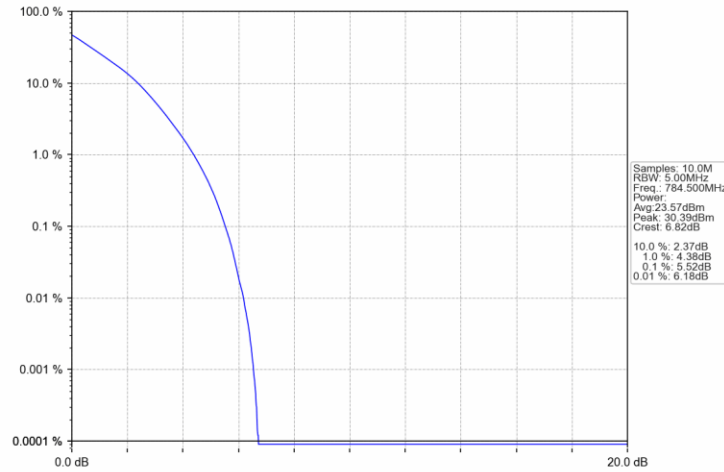
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.59	<=13	Pass
16QAM	782	50	0	6.32	<=13	Pass

5.2 Test Graph

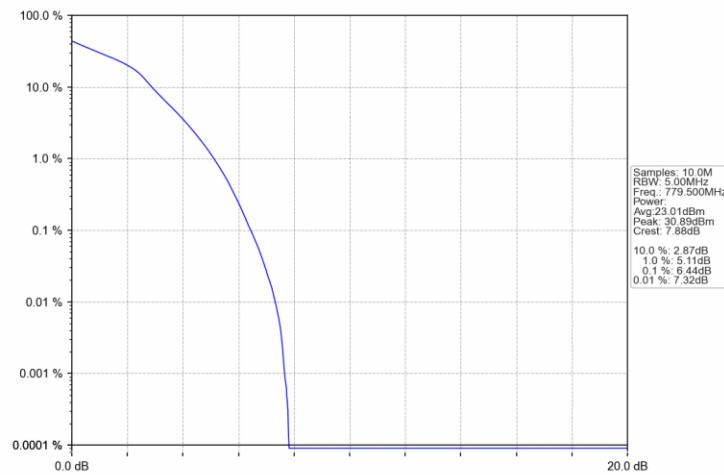
5.2.1 B13_5MHz



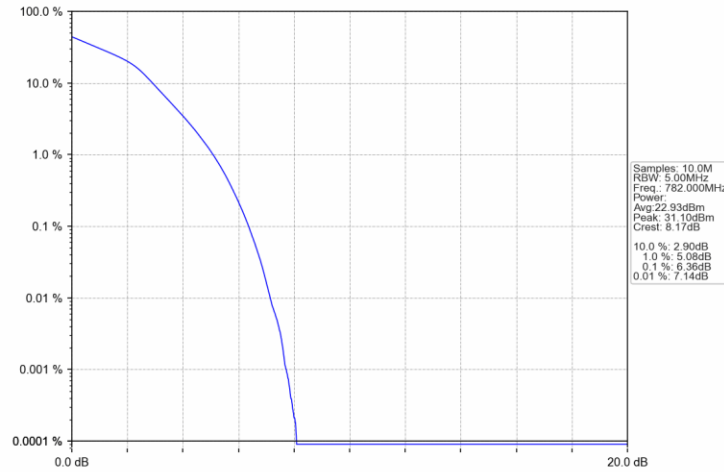
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



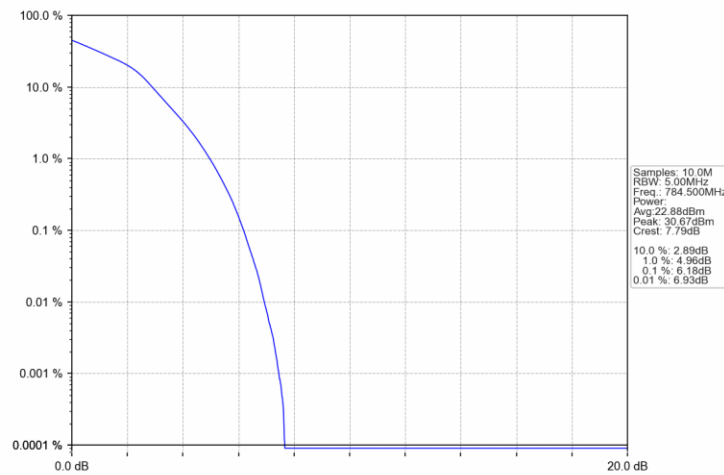
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Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV

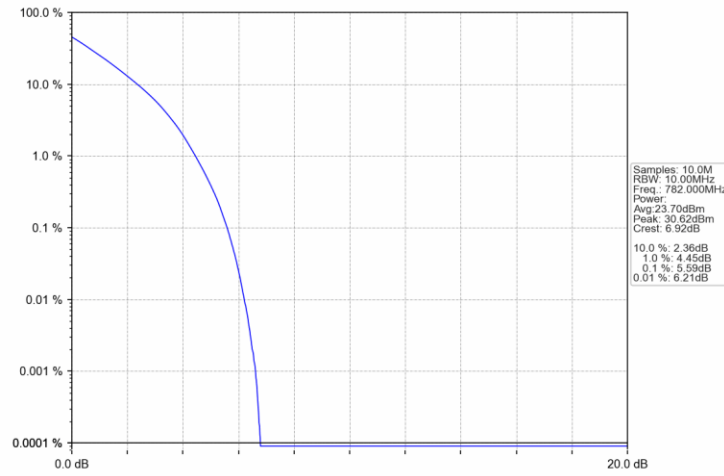


Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV

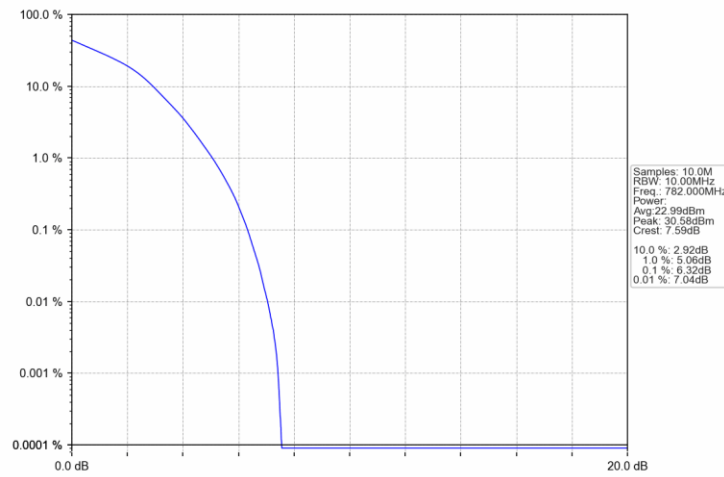


5.2.2 B13_10MHz

Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B13_5MHz

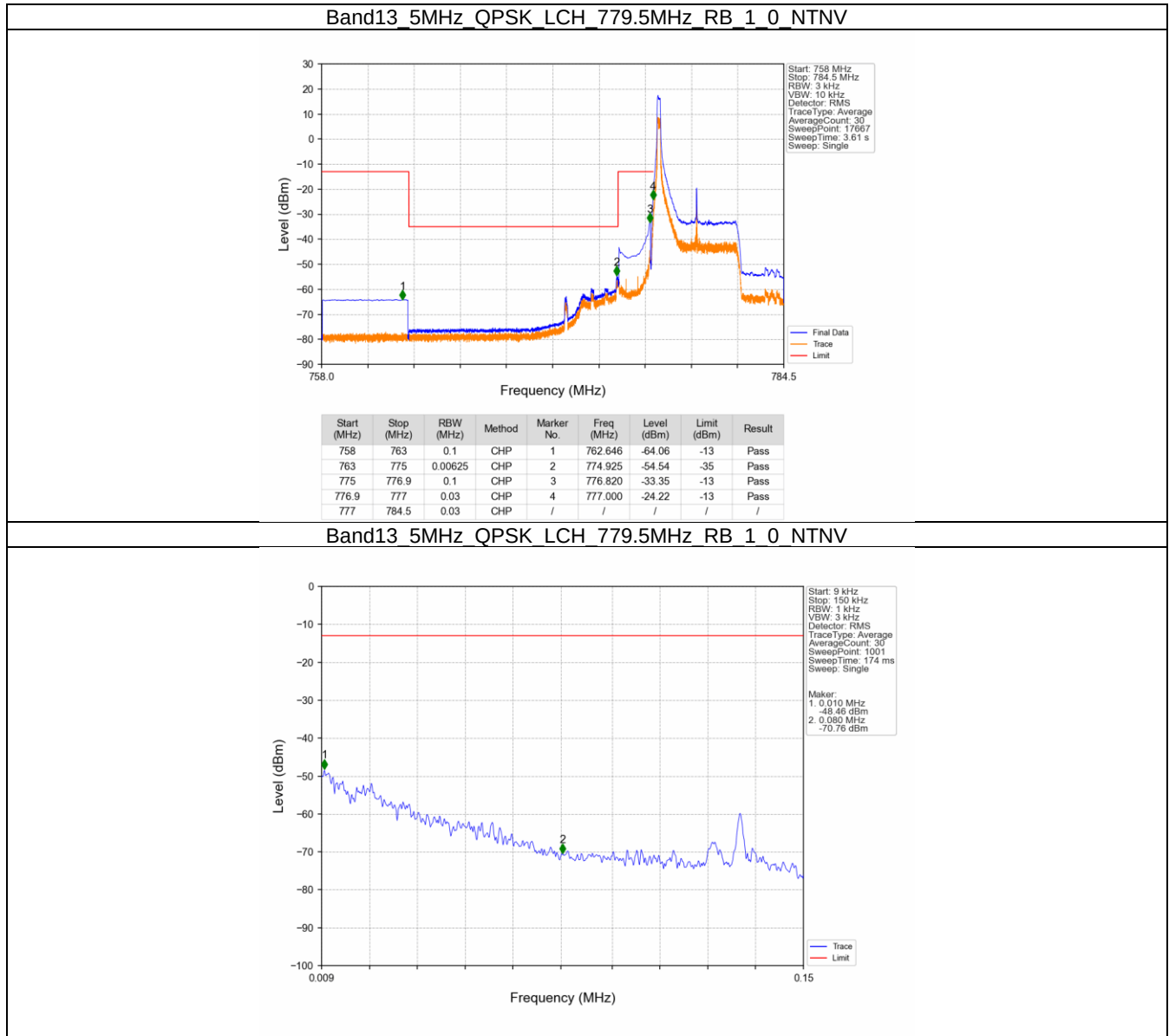
Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	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

6.1.2 B13_10MHz

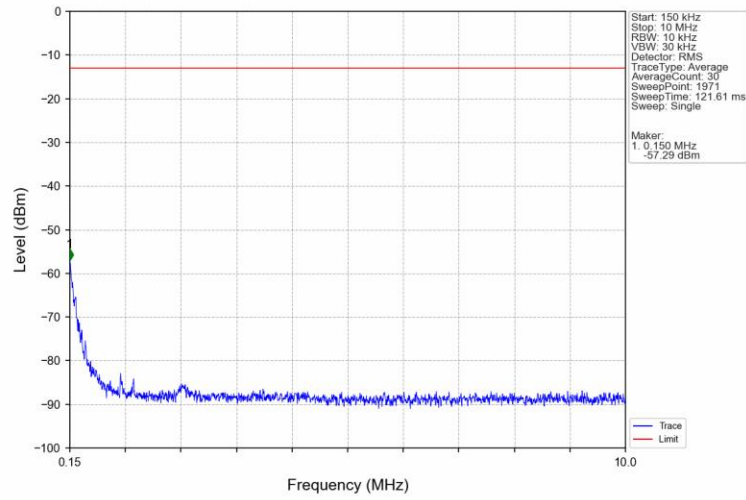
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	782	1	0	Refer To 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

6.2 Test Graph

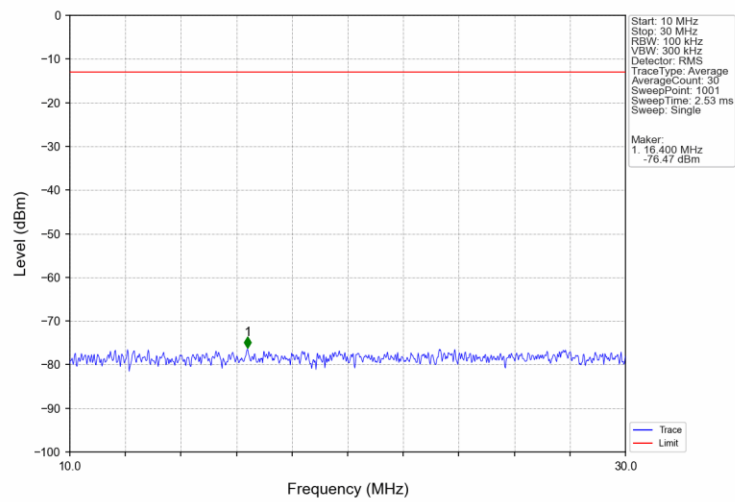
6.2.1 B13_5MHz



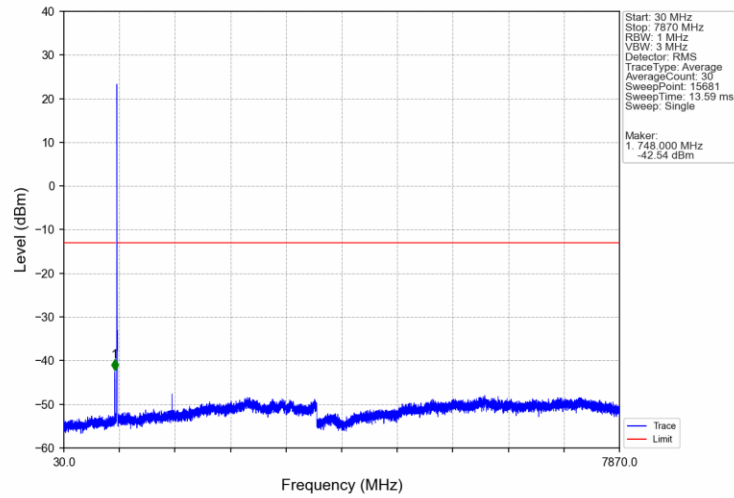
Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV



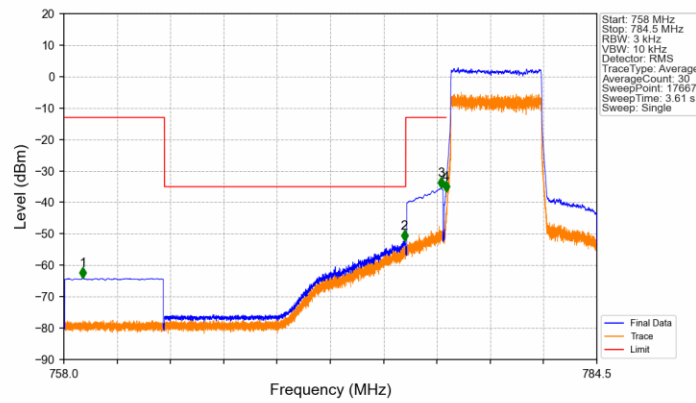
Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV

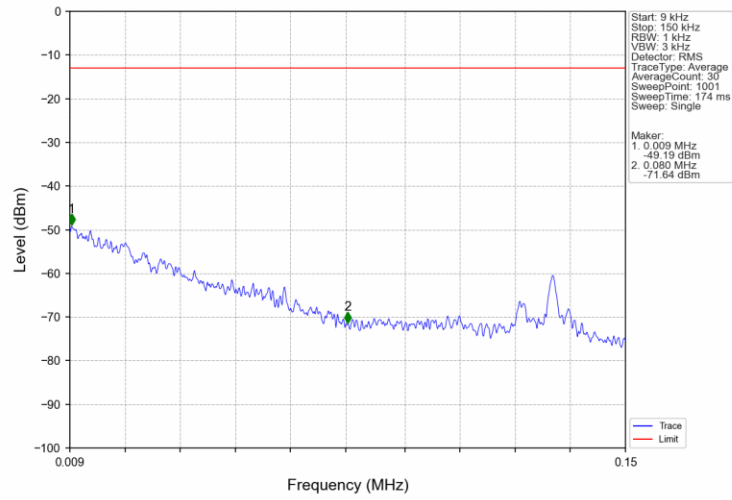


Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV

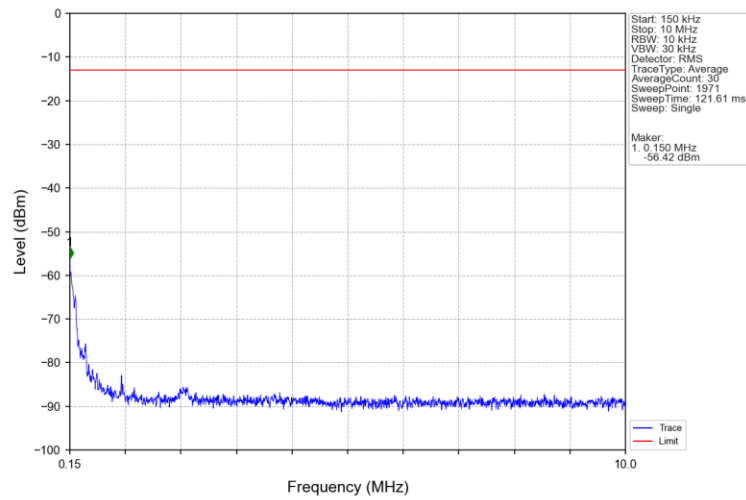


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.950	-64.16	-13	Pass
763	775	0.00625	CHP	2	774.933	-52.18	-35	Pass
775	776.9	0.1	CHP	3	776.751	-35.52	-13	Pass
776.9	777	0.03	CHP	4	777.000	-36.55	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

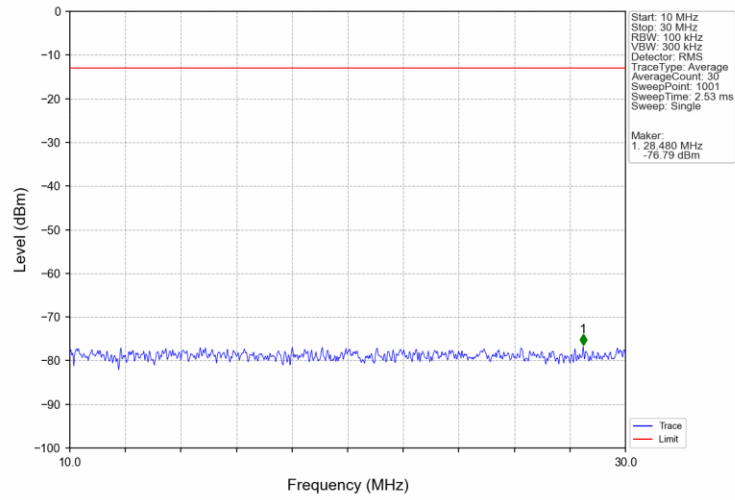
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



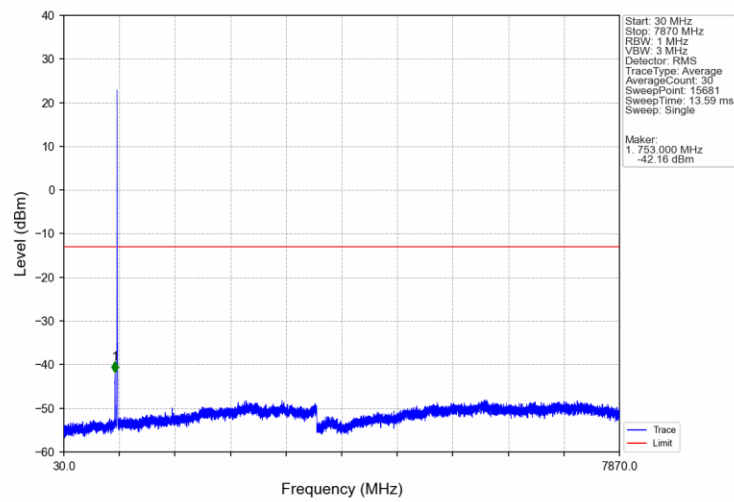
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



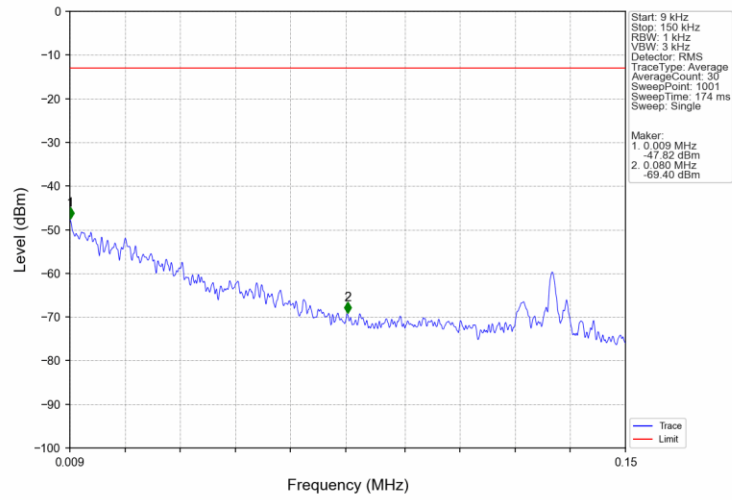
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



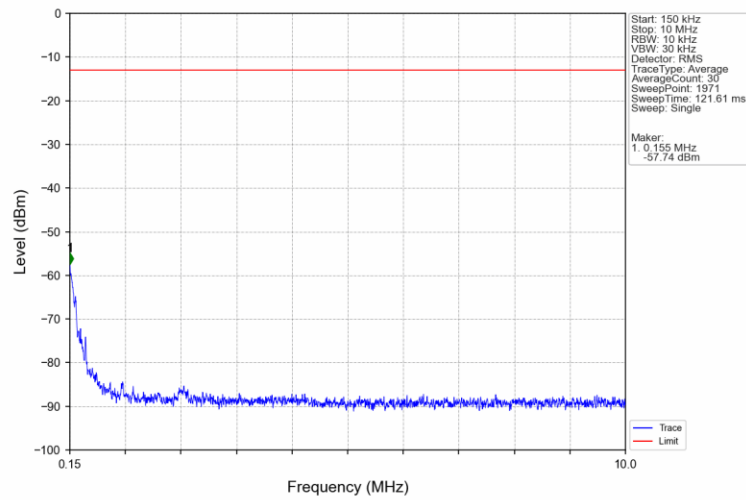
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



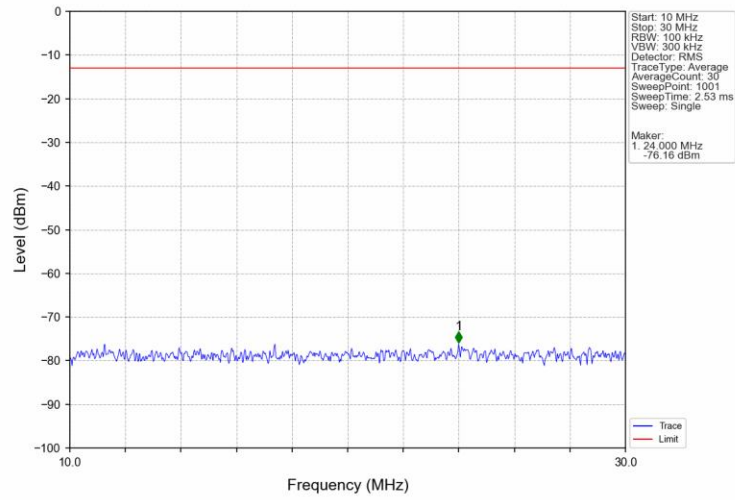
Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV



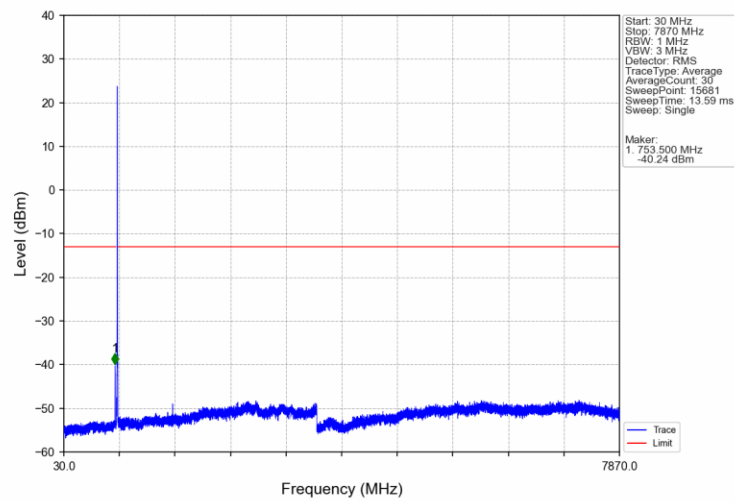
Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV



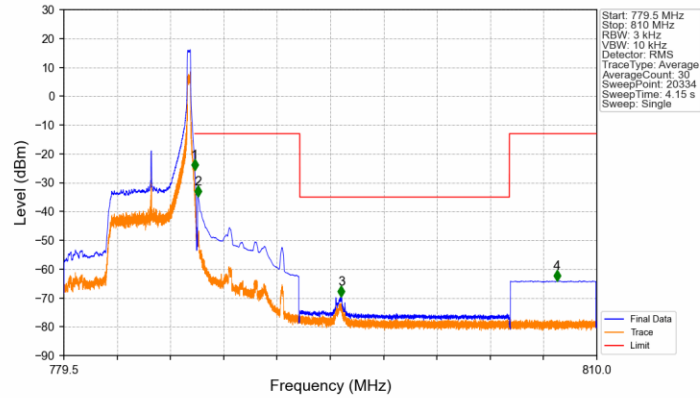
Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV

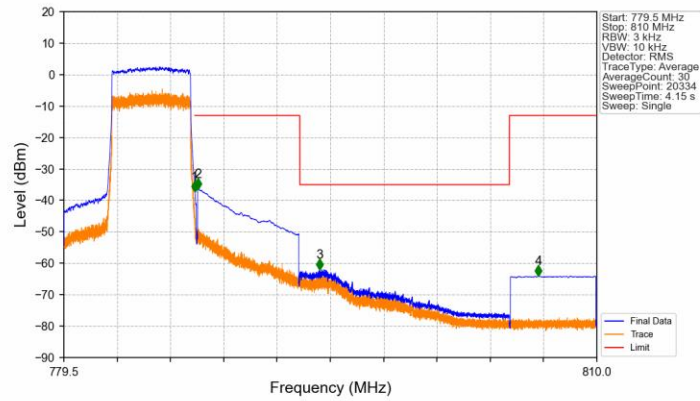


Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



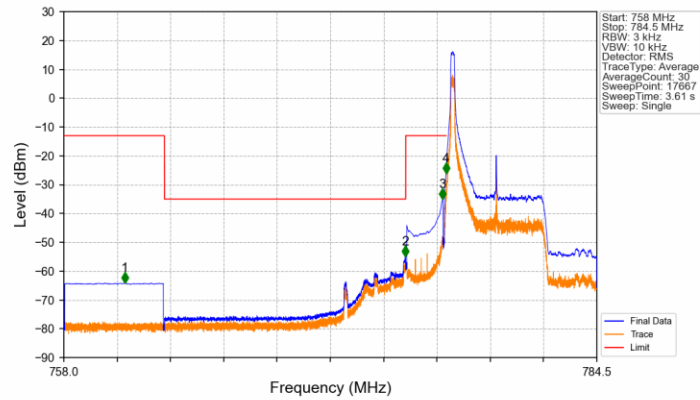
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-25.66	-13	Pass
787.1	793	0.1	CHP	2	787.171	-34.82	-13	Pass
793	805	0.00625	CHP	3	795.381	-69.57	-35	Pass
805	810	0.1	CHP	4	807.730	-64.06	-13	Pass

Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



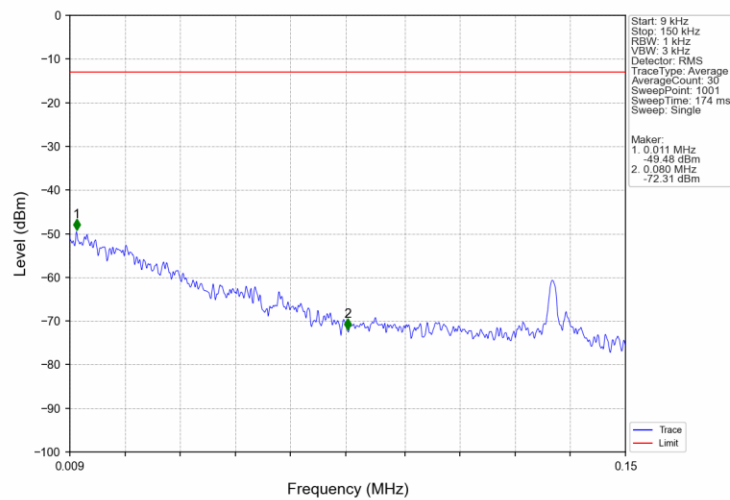
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-37.16	-13	Pass
787.1	793	0.1	CHP	2	787.176	-36.36	-13	Pass
793	805	0.00625	CHP	3	794.152	-62.02	-35	Pass
805	810	0.1	CHP	4	806.655	-64.07	-13	Pass

Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV

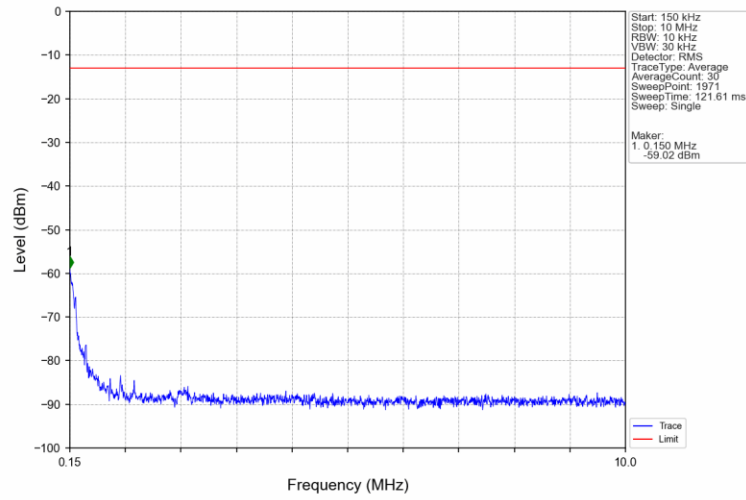


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.038	-64.17	-13	Pass
763	775	0.00625	CHP	2	774.973	-55.00	-35	Pass
775	776.9	0.1	CHP	3	776.835	-35.16	-13	Pass
776.9	777	0.03	CHP	4	777.000	-26.20	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

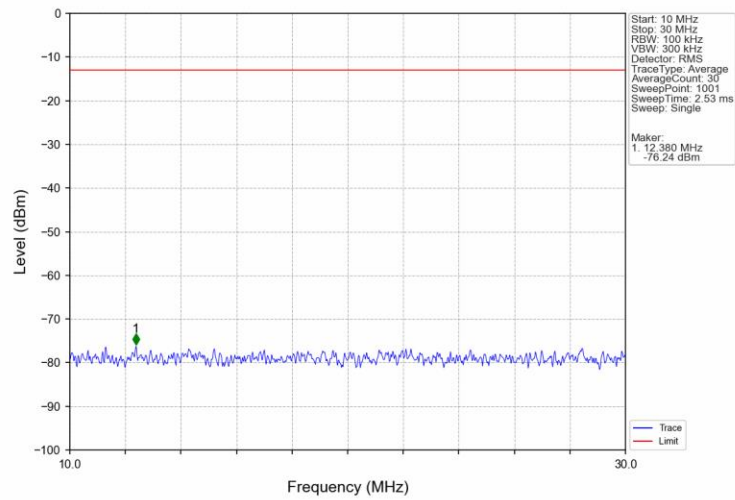
Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV



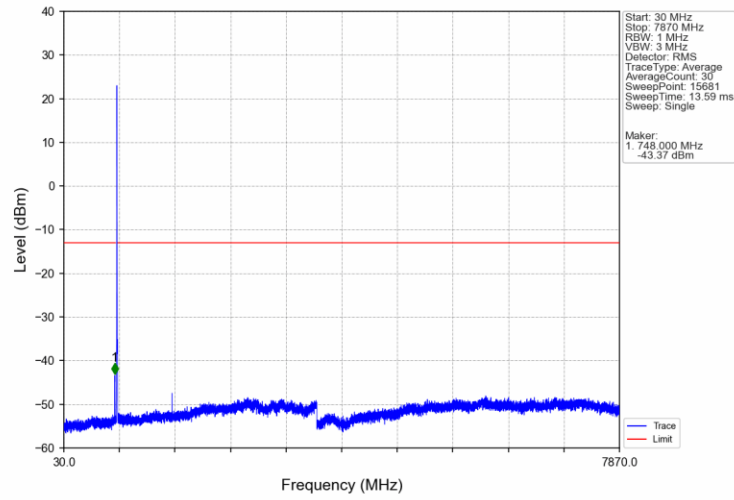
Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV



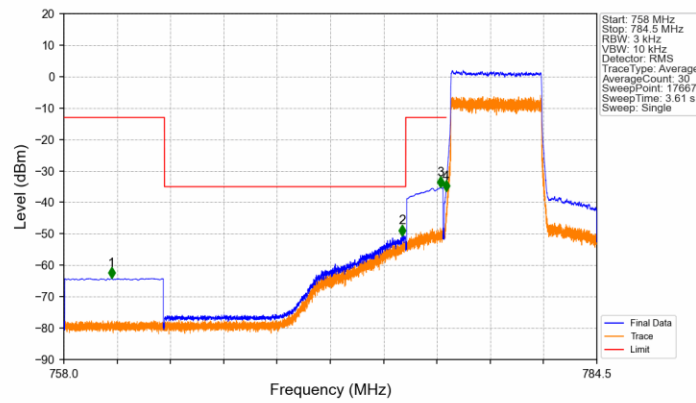
Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV



Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV

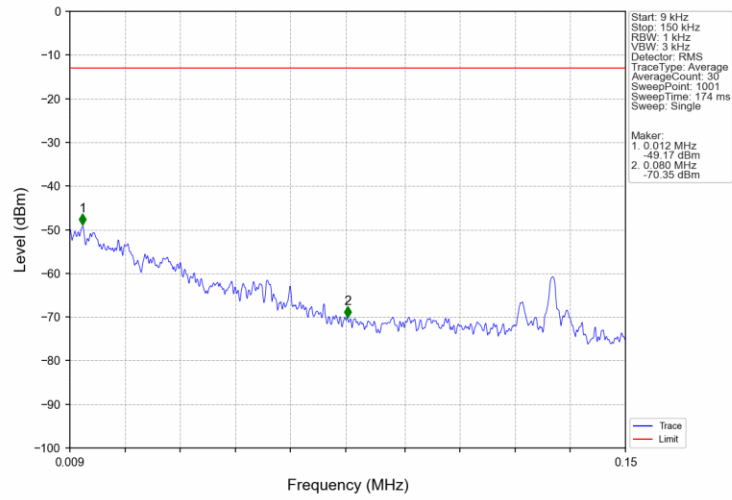


Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV

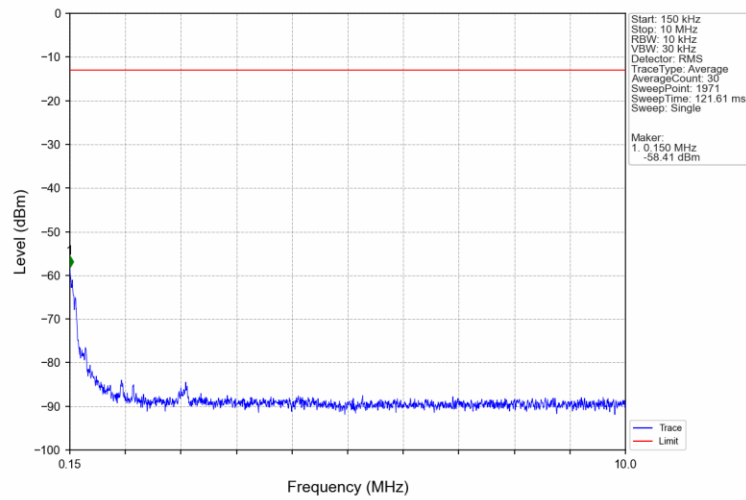


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.366	-64.18	-13	Pass
763	775	0.00625	CHP	2	774.811	-50.57	-35	Pass
775	776.9	0.1	CHP	3	776.745	-35.28	-13	Pass
776.9	777	0.03	CHP	4	777.000	-36.41	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

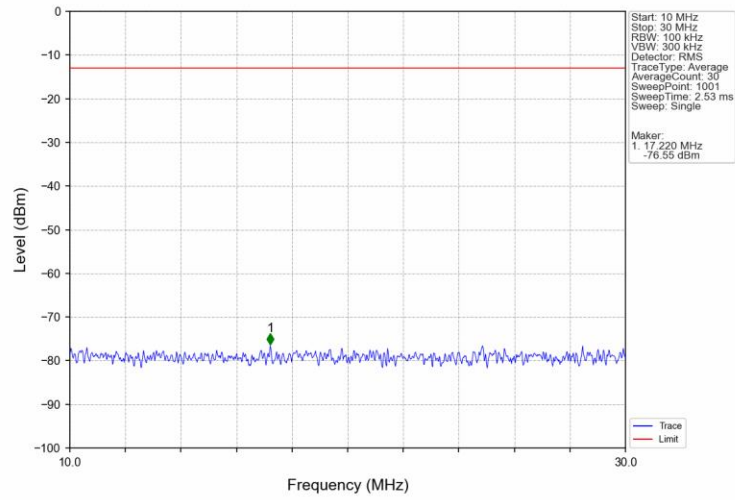
Band13_5MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



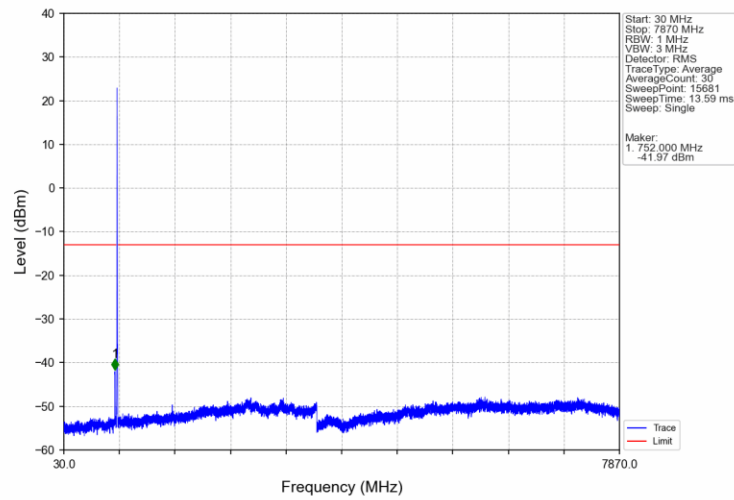
Band13_5MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



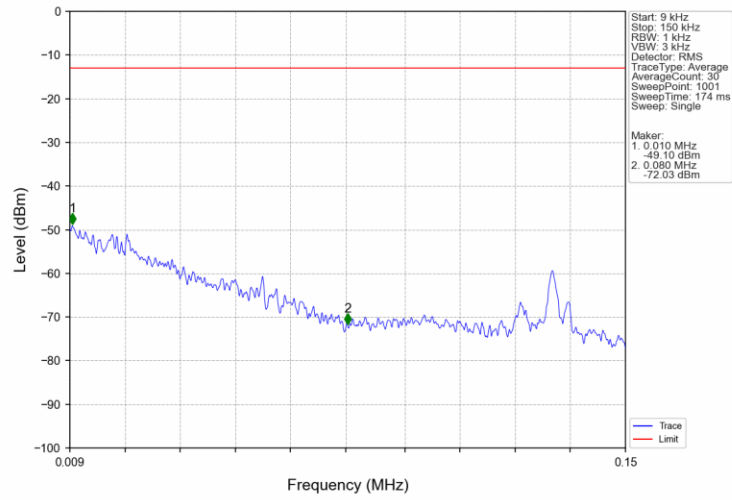
Band13_5MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



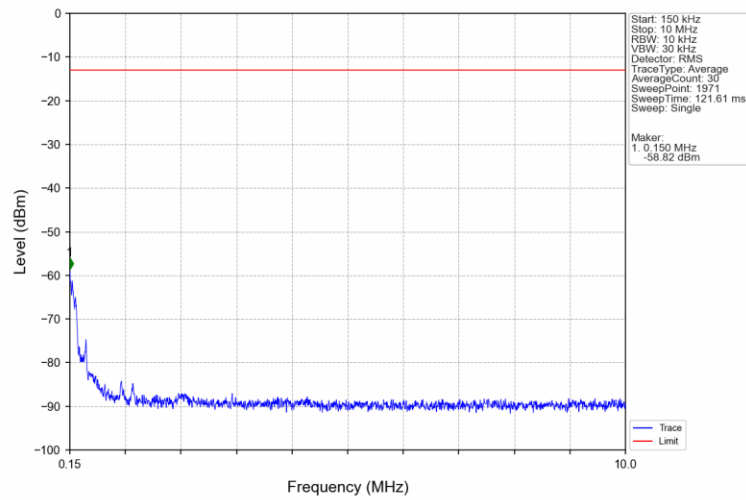
Band13_5MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



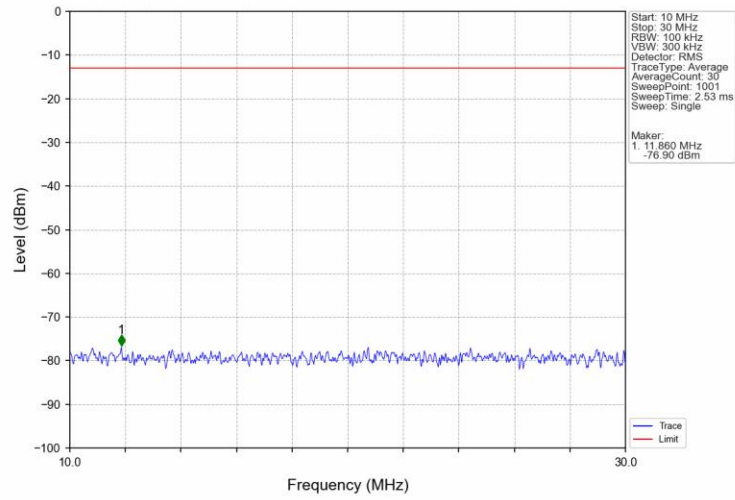
Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV



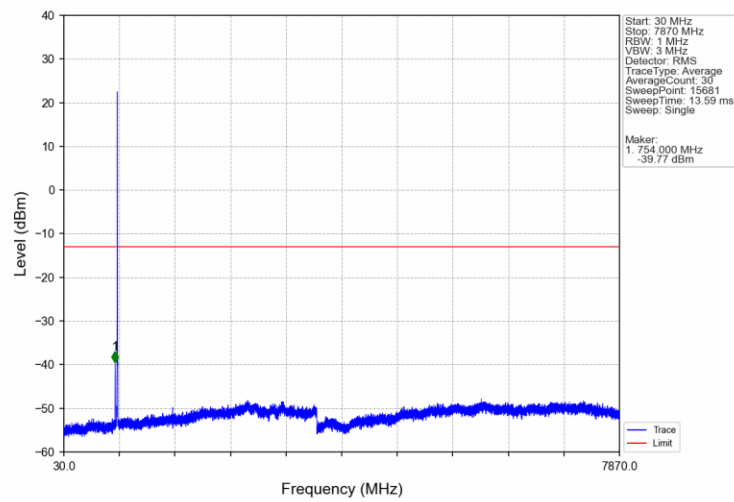
Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV



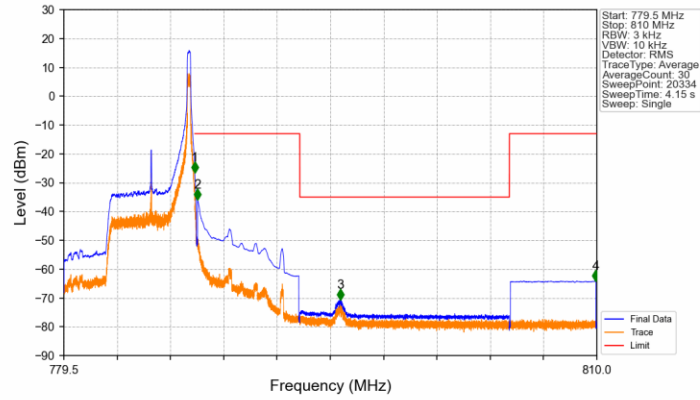
Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV

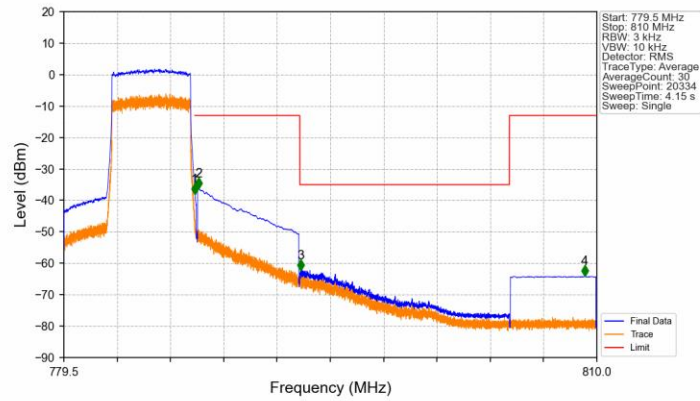


Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_24_NTNV



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	-26.61	-13	Pass
787.1	793	0.1	CHP	2	787.150	-36.03	-13	Pass
793	805	0.00625	CHP	3	795.310	-70.71	-35	Pass
805	810	0.1	CHP	4	809.937	-64.15	-13	Pass

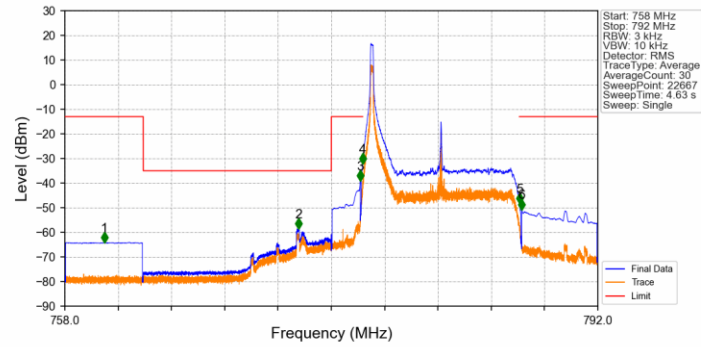
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



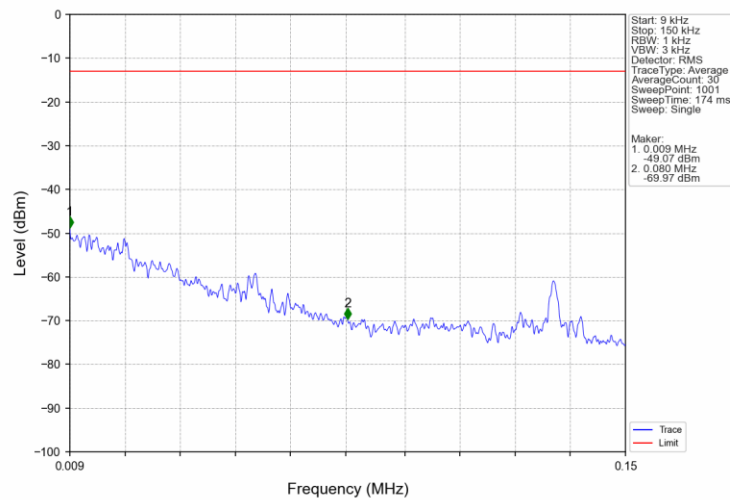
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-38.10	-13	Pass
787.1	793	0.1	CHP	2	787.207	-36.21	-13	Pass
793	805	0.00625	CHP	3	793.060	-62.20	-35	Pass
805	810	0.1	CHP	4	809.304	-64.15	-13	Pass

6.2.2 B13_10MHz

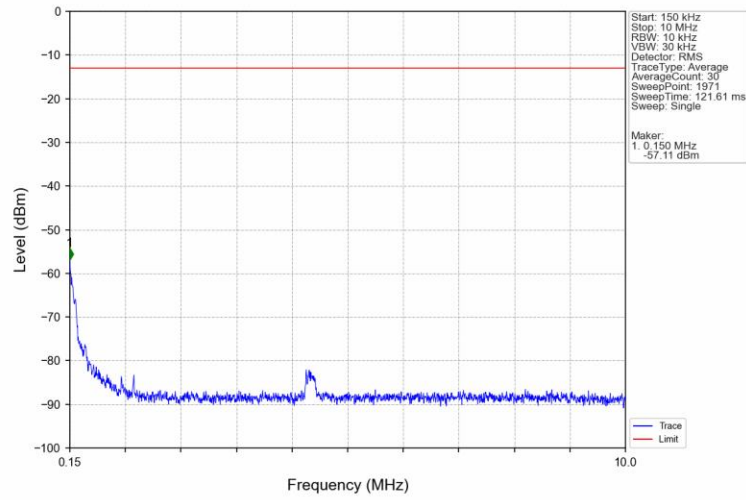
Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV



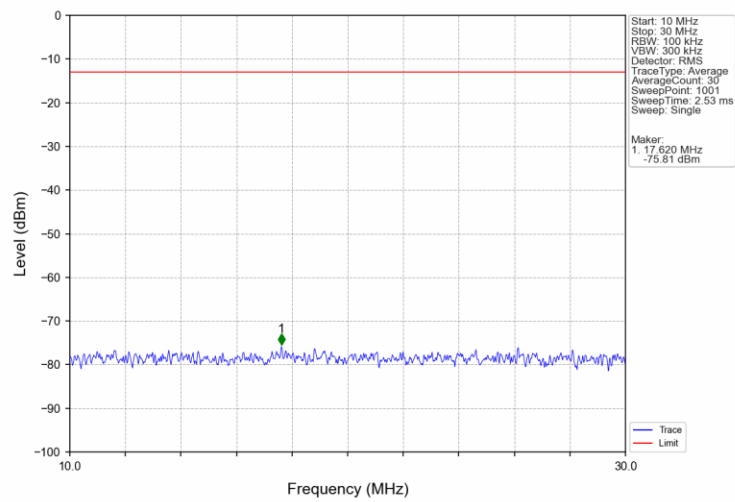
Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV



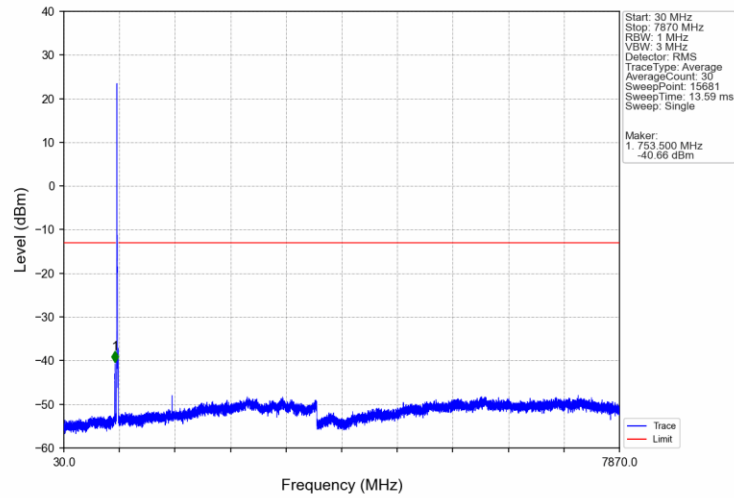
Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV



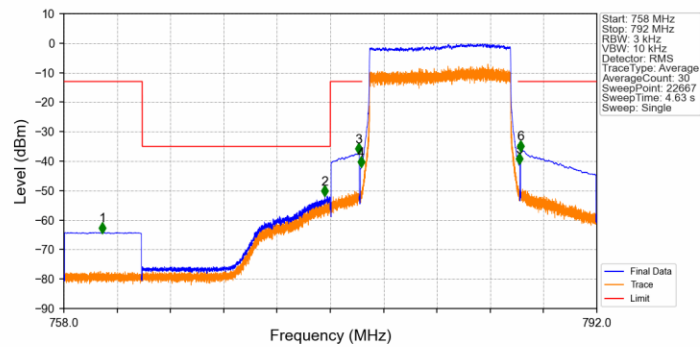
Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV



Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

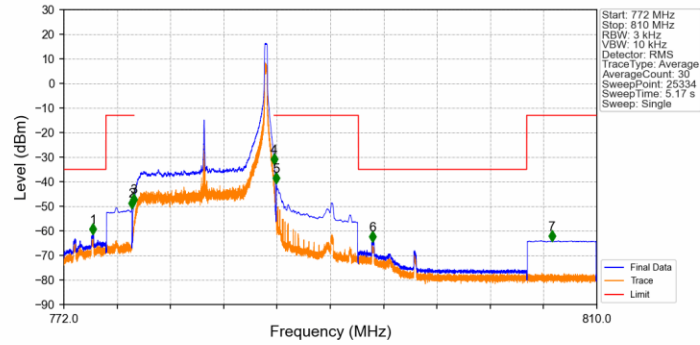


Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV

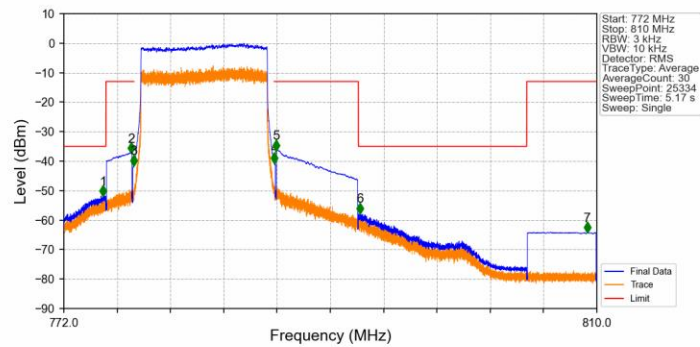


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.468	-64.16	-13	Pass
763	775	0.00625	CHP	2	774.658	-51.71	-35	Pass
775	776.9	0.1	CHP	3	776.800	-37.32	-13	Pass
776.9	777	0.03	CHP	4	776.970	-41.89	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.056	-40.69	-13	Pass
787.1	792	0.1	CHP	6	787.152	-36.39	-13	Pass

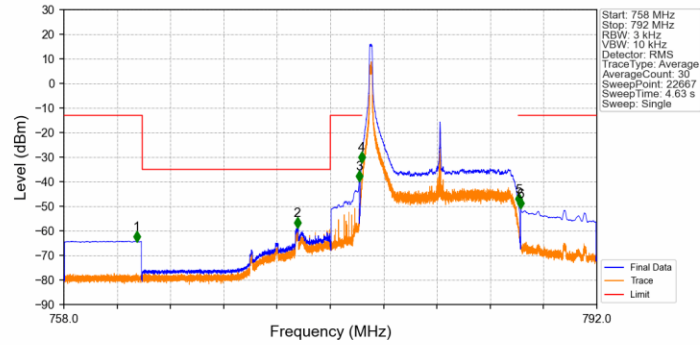
Band13_10MHz_QPSK_HCH_782MHz_RB_1_49_NTNV



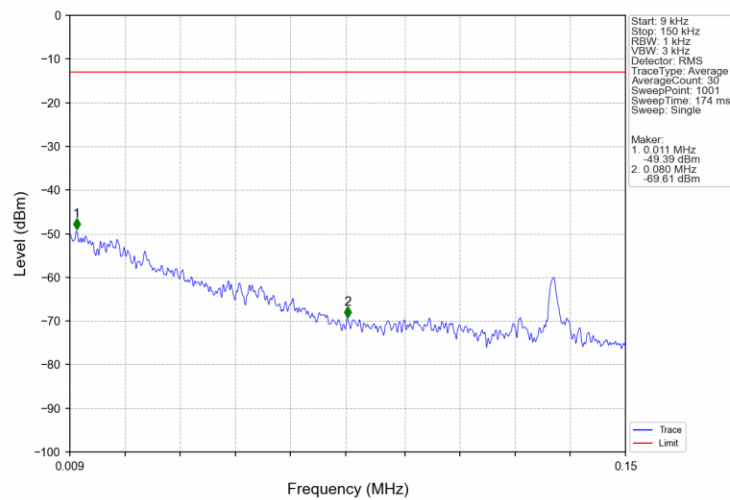
Band13_10MHz_QPSK_HCH_782MHz_RB_50_0_NTNV



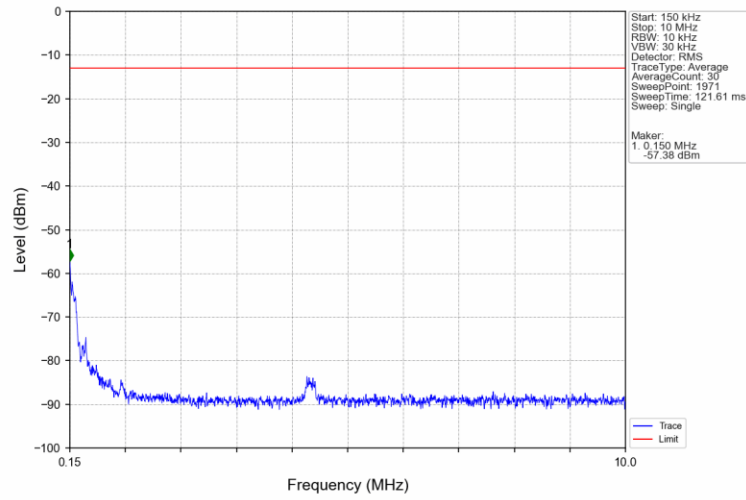
Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV



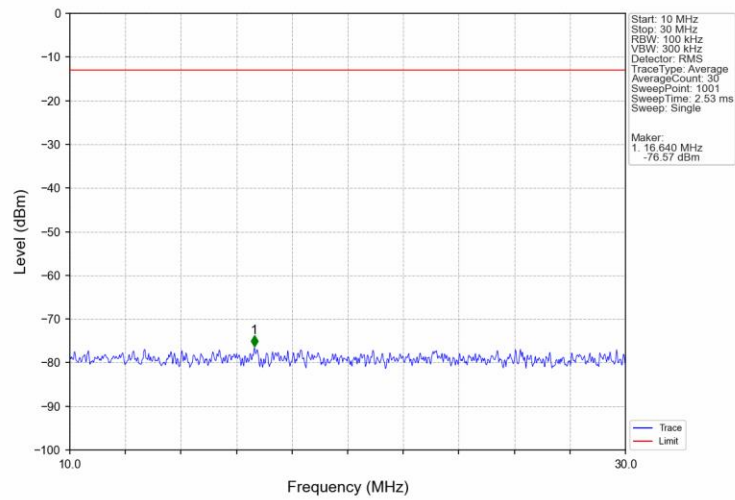
Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV



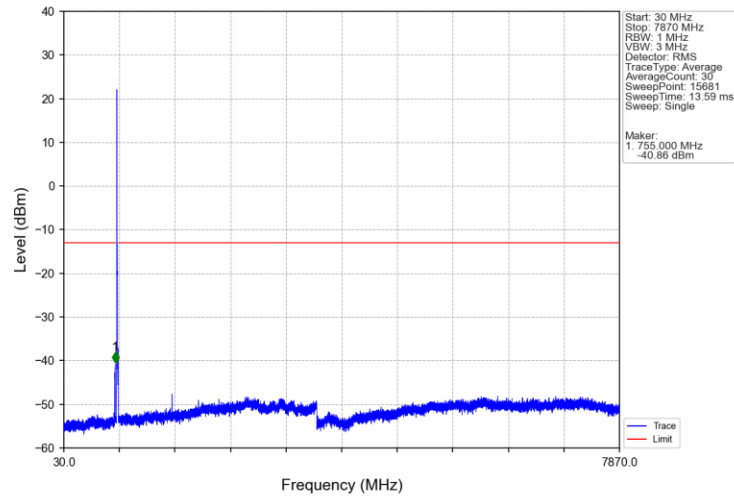
Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV



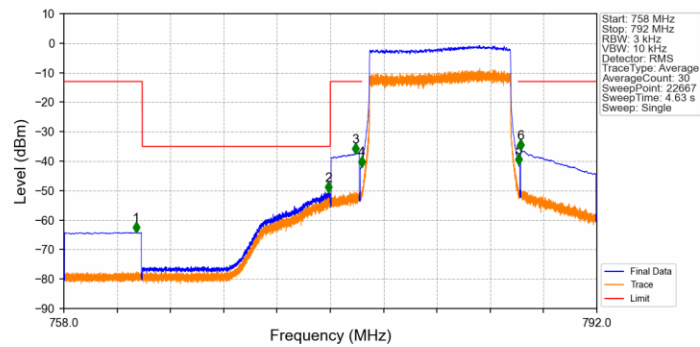
Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV



Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV

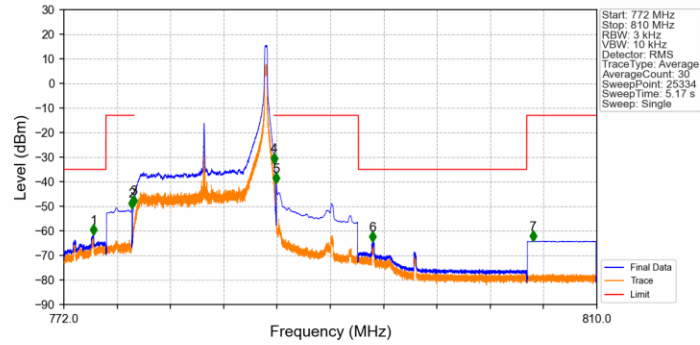


Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV

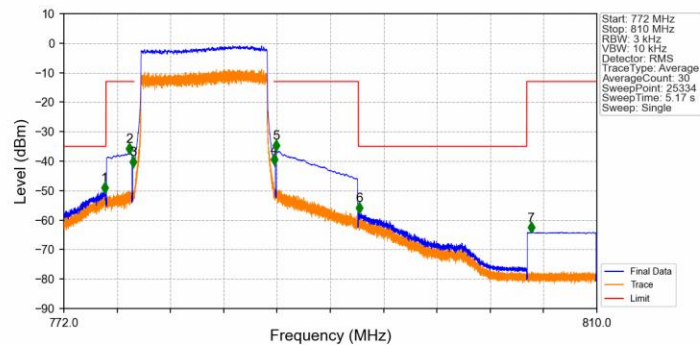


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.620	-64.09	-13	Pass
763	775	0.00625	CHP	2	774.883	-50.36	-35	Pass
775	776.9	0.1	CHP	3	776.622	-37.31	-13	Pass
776.9	777	0.03	CHP	4	776.997	-41.71	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.000	-40.98	-13	Pass
787.1	792	0.1	CHP	6	787.150	-36.10	-13	Pass

Band13_10MHz_16QAM_HCH_782MHz_RB_1_49_NTNV



Band13_10MHz_16QAM_HCH_782MHz_RB_50_0_NTNV



7. Frequency Stability (IC)

7.1 Test Result

7.1.1 B13_5MHz

Band: 13 / Bandwidth: 5MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	OBW (FL - FH) (MHz)		Limit	Verdict
		Size	Offset			FL	FH		
QPSK	779.5	25	0	20	3.27	777.240	781.793	777 to 782	Pass
					3.85	777.247	781.795	777 to 782	Pass
					4.43	777.244	781.803	777 to 782	Pass
				-30	3.85	777.245	781.789	777 to 782	Pass
				-20	3.85	777.241	781.788	777 to 782	Pass
				-10	3.85	777.244	781.792	777 to 782	Pass
				0	3.85	777.245	781.798	777 to 782	Pass
				10	3.85	777.246	781.797	777 to 782	Pass
				30	3.85	777.247	781.799	777 to 782	Pass
				40	3.85	777.247	781.804	777 to 782	Pass
				50	3.85	777.245	781.793	777 to 782	Pass
	782	25	0	20	3.27	779.756	784.298	777 to 787	Pass
					3.85	779.754	784.295	777 to 787	Pass
					4.43	779.756	784.294	777 to 787	Pass
				-30	3.85	779.762	784.295	777 to 787	Pass
				-20	3.85	779.754	784.296	777 to 787	Pass
				-10	3.85	779.751	784.299	777 to 787	Pass
				0	3.85	779.757	784.296	777 to 787	Pass
				10	3.85	779.758	784.300	777 to 787	Pass
				30	3.85	779.752	784.294	777 to 787	Pass
				40	3.85	779.758	784.297	777 to 787	Pass
				50	3.85	779.753	784.294	777 to 787	Pass
	784.5	25	0	20	3.27	782.246	786.791	782 to 787	Pass
					3.85	782.247	786.798	782 to 787	Pass
					4.43	782.242	786.784	782 to 787	Pass
				-30	3.85	782.246	786.796	782 to 787	Pass
				-20	3.85	782.252	786.790	782 to 787	Pass
				-10	3.85	782.251	786.775	782 to 787	Pass
				0	3.85	782.241	786.792	782 to 787	Pass
				10	3.85	782.247	786.790	782 to 787	Pass
				30	3.85	782.249	786.799	782 to 787	Pass
				40	3.85	782.242	786.788	782 to 787	Pass
				50	3.85	782.254	786.779	782 to 787	Pass
16QAM	779.5	25	0	20	3.27	777.247	781.798	777 to 782	Pass
					3.85	777.248	781.808	777 to 782	Pass
					4.43	777.246	781.806	777 to 782	Pass
				-30	3.85	777.244	781.798	777 to 782	Pass
				-20	3.85	777.228	781.809	777 to 782	Pass
				-10	3.85	777.249	781.797	777 to 782	Pass
				0	3.85	777.224	781.795	777 to 782	Pass
				10	3.85	777.223	781.789	777 to 782	Pass
				30	3.85	777.239	781.807	777 to 782	Pass
				40	3.85	777.250	781.799	777 to 782	Pass
				50	3.85	777.246	781.800	777 to 782	Pass
	782	25	0	20	3.27	779.752	784.309	777 to 787	Pass
					3.85	779.752	784.308	777 to 787	Pass

					4.43	779.755	784.310	777 to 787	Pass
				-30	3.85	779.752	784.300	777 to 787	Pass
				-20	3.85	779.757	784.312	777 to 787	Pass
				-10	3.85	779.758	784.311	777 to 787	Pass
				0	3.85	779.752	784.306	777 to 787	Pass
				10	3.85	779.745	784.311	777 to 787	Pass
				30	3.85	779.750	784.310	777 to 787	Pass
				40	3.85	779.751	784.309	777 to 787	Pass
				50	3.85	779.757	784.298	777 to 787	Pass
	784.5	25	0	20	3.27	782.263	786.779	782 to 787	Pass
					3.85	782.260	786.783	782 to 787	Pass
					4.43	782.261	786.780	782 to 787	Pass
				-30	3.85	782.262	786.777	782 to 787	Pass
				-20	3.85	782.259	786.782	782 to 787	Pass
				-10	3.85	782.267	786.781	782 to 787	Pass
				0	3.85	782.258	786.777	782 to 787	Pass
				10	3.85	782.260	786.781	782 to 787	Pass
				30	3.85	782.259	786.776	782 to 787	Pass
				40	3.85	782.263	786.783	782 to 787	Pass
				50	3.85	782.263	786.780	782 to 787	Pass

7.1.2 B13_10MHz

Band: 13 / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	OBW (FL - FH) (MHz)		Limit	Verdict
		Size	Offset			FL	FH		
QPSK	782	50	0	20	3.27	777.531	786.552	777 to 787	Pass
					3.85	777.504	786.559	777 to 787	Pass
					4.43	777.526	786.554	777 to 787	Pass
				-30	3.85	777.504	786.575	777 to 787	Pass
				-20	3.85	777.506	786.555	777 to 787	Pass
				-10	3.85	777.501	786.556	777 to 787	Pass
				0	3.85	777.517	786.559	777 to 787	Pass
				10	3.85	777.511	786.566	777 to 787	Pass
				30	3.85	777.507	786.559	777 to 787	Pass
				40	3.85	777.513	786.562	777 to 787	Pass
16QAM	782	50	0	20	3.27	777.516	786.550	777 to 787	Pass
					3.85	777.504	786.550	777 to 787	Pass
					4.43	777.513	786.549	777 to 787	Pass
				-30	3.85	777.506	786.545	777 to 787	Pass
				-20	3.85	777.523	786.544	777 to 787	Pass
				-10	3.85	777.502	786.559	777 to 787	Pass
				0	3.85	777.518	786.550	777 to 787	Pass
				10	3.85	777.521	786.541	777 to 787	Pass
				30	3.85	777.513	786.536	777 to 787	Pass
				40	3.85	777.518	786.537	777 to 787	Pass
				50	3.85	777.514	786.557	777 to 787	Pass

8. Form731

8.1 Test Result

8.1.1 Form731_Power

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
13	5	779.5	784.5	0.2799	99.0000	ppm	4M55G7D	27F	24.47
13	5	779.5	784.5	0.2483	99.0000	ppm	4M55W7D	27F	23.95
13	10	782	782	0.2704	99.0000	ppm	9M04G7D	27F	24.32
13	10	782	782	0.2307	99.0000	ppm	9M04W7D	27F	23.63

8.1.2 Form731_ERP

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
13	5	779.5	784.5	0.3724	99.0000	ppm	4M55G7D	27F	25.71
13	5	779.5	784.5	0.3304	99.0000	ppm	4M55W7D	27F	25.19
13	10	782	782	0.3597	99.0000	ppm	9M04G7D	27F	25.56
13	10	782	782	0.3069	99.0000	ppm	9M04W7D	27F	24.87

***** End of Report *****