

1. Effective (Isotropic) Radiated Power Output Data

1.1 B13_5MHz_ERP

1.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	779.5	1	0	21.26	0.00	19.11	<=34.77	Pass
			13	21.45	0.00	19.30	<=34.77	Pass
			24	21.28	0.00	19.13	<=34.77	Pass
		12	0	20.30	0.00	18.15	<=34.77	Pass
			6	20.41	0.00	18.26	<=34.77	Pass
			13	20.39	0.00	18.24	<=34.77	Pass
		25	0	20.38	0.00	18.23	<=34.77	Pass
	782	1	0	21.31	0.00	19.16	<=34.77	Pass
			13	21.41	0.00	19.26	<=34.77	Pass
			24	21.23	0.00	19.08	<=34.77	Pass
		12	0	20.33	0.00	18.18	<=34.77	Pass
			6	20.46	0.00	18.31	<=34.77	Pass
			13	20.37	0.00	18.22	<=34.77	Pass
		25	0	20.34	0.00	18.19	<=34.77	Pass
	784.5	1	0	21.28	0.00	19.13	<=34.77	Pass
			13	21.38	0.00	19.23	<=34.77	Pass
			24	21.23	0.00	19.08	<=34.77	Pass
		12	0	20.38	0.00	18.23	<=34.77	Pass
			6	20.41	0.00	18.26	<=34.77	Pass
			13	20.27	0.00	18.12	<=34.77	Pass
		25	0	20.33	0.00	18.18	<=34.77	Pass
16QAM	779.5	1	0	20.46	0.00	18.31	<=34.77	Pass
			13	20.60	0.00	18.45	<=34.77	Pass
			24	20.44	0.00	18.29	<=34.77	Pass
		12	0	19.22	0.00	17.07	<=34.77	Pass
			6	19.39	0.00	17.24	<=34.77	Pass
			13	19.37	0.00	17.22	<=34.77	Pass
		25	0	19.37	0.00	17.22	<=34.77	Pass
	782	1	0	20.19	0.00	18.04	<=34.77	Pass
			13	20.32	0.00	18.17	<=34.77	Pass
			24	20.14	0.00	17.99	<=34.77	Pass
		12	0	19.29	0.00	17.14	<=34.77	Pass
			6	19.40	0.00	17.25	<=34.77	Pass
			13	19.24	0.00	17.09	<=34.77	Pass
		25	0	19.33	0.00	17.18	<=34.77	Pass
	784.5	1	0	20.57	0.00	18.42	<=34.77	Pass
			13	20.67	0.00	18.52	<=34.77	Pass
			24	20.52	0.00	18.37	<=34.77	Pass
		12	0	19.40	0.00	17.25	<=34.77	Pass
			6	19.40	0.00	17.25	<=34.77	Pass
			13	19.21	0.00	17.06	<=34.77	Pass
		25	0	19.29	0.00	17.14	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.2 B13_10MHz_ERP

1.2.1 Test Result

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	21.25	0.00	19.10	<=34.77	Pass
			25	21.50	0.00	19.35	<=34.77	Pass
			49	21.21	0.00	19.06	<=34.77	Pass
		25	0	20.34	0.00	18.19	<=34.77	Pass
			13	20.44	0.00	18.29	<=34.77	Pass
			25	20.33	0.00	18.18	<=34.77	Pass
		50	0	20.32	0.00	18.17	<=34.77	Pass
	782	1	0	21.24	0.00	19.09	<=34.77	Pass
			25	21.54	0.00	19.39	<=34.77	Pass
			49	21.23	0.00	19.08	<=34.77	Pass
		25	0	20.30	0.00	18.15	<=34.77	Pass
			13	20.43	0.00	18.28	<=34.77	Pass
			25	20.30	0.00	18.15	<=34.77	Pass
		50	0	20.32	0.00	18.17	<=34.77	Pass
	782	1	0	21.18	0.00	19.03	<=34.77	Pass
			25	21.50	0.00	19.35	<=34.77	Pass
			49	21.21	0.00	19.06	<=34.77	Pass
		25	0	20.30	0.00	18.15	<=34.77	Pass
			13	20.44	0.00	18.29	<=34.77	Pass
			25	20.33	0.00	18.18	<=34.77	Pass
		50	0	20.34	0.00	18.19	<=34.77	Pass
16QAM	782	1	0	20.91	0.00	18.76	<=34.77	Pass
			25	21.13	0.00	18.98	<=34.77	Pass
			49	20.83	0.00	18.68	<=34.77	Pass
		25	0	19.37	0.00	17.22	<=34.77	Pass
			13	19.47	0.00	17.32	<=34.77	Pass
			25	19.37	0.00	17.22	<=34.77	Pass
		50	0	19.32	0.00	17.17	<=34.77	Pass
	782	1	0	20.94	0.00	18.79	<=34.77	Pass
			25	21.16	0.00	19.01	<=34.77	Pass
			49	20.87	0.00	18.72	<=34.77	Pass
		25	0	19.33	0.00	17.18	<=34.77	Pass
			13	19.50	0.00	17.35	<=34.77	Pass
			25	19.36	0.00	17.21	<=34.77	Pass
		50	0	19.32	0.00	17.17	<=34.77	Pass
	782	1	0	20.92	0.00	18.77	<=34.77	Pass
			25	21.14	0.00	18.99	<=34.77	Pass
			49	20.86	0.00	18.71	<=34.77	Pass
		25	0	19.32	0.00	17.17	<=34.77	Pass
			13	19.47	0.00	17.32	<=34.77	Pass
			25	19.34	0.00	17.19	<=34.77	Pass
		50	0	19.33	0.00	17.18	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 B13_5MHz

2.1.1 Test Result

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	3.30	-10.099	-0.0130	-2.5 to 2.5	Pass
					3.70	-3.405	-0.0044	-2.5 to 2.5	Pass
					4.00	-2.518	-0.0032	-2.5 to 2.5	Pass
				-30	3.70	-4.106	-0.0053	-2.5 to 2.5	Pass
				-20	3.70	-3.018	-0.0039	-2.5 to 2.5	Pass
				-10	3.70	-6.680	-0.0086	-2.5 to 2.5	Pass
				0	3.70	-5.565	-0.0071	-2.5 to 2.5	Pass
				10	3.70	-6.180	-0.0079	-2.5 to 2.5	Pass
				30	3.70	-8.540	-0.0110	-2.5 to 2.5	Pass
				40	3.70	-7.224	-0.0093	-2.5 to 2.5	Pass
				50	3.70	-2.789	-0.0036	-2.5 to 2.5	Pass
	782	25	0	20	3.30	-5.636	-0.0072	-2.5 to 2.5	Pass
					3.70	-7.854	-0.0100	-2.5 to 2.5	Pass
					4.00	-2.661	-0.0034	-2.5 to 2.5	Pass
				-30	3.70	-4.735	-0.0061	-2.5 to 2.5	Pass
				-20	3.70	-6.709	-0.0086	-2.5 to 2.5	Pass
				-10	3.70	-7.753	-0.0099	-2.5 to 2.5	Pass
				0	3.70	-9.441	-0.0121	-2.5 to 2.5	Pass
				10	3.70	-3.920	-0.0050	-2.5 to 2.5	Pass
				30	3.70	-4.191	-0.0054	-2.5 to 2.5	Pass
				40	3.70	-4.921	-0.0063	-2.5 to 2.5	Pass
				50	3.70	-2.446	-0.0031	-2.5 to 2.5	Pass
	784.5	25	0	20	3.30	-7.925	-0.0101	-2.5 to 2.5	Pass
					3.70	-8.497	-0.0108	-2.5 to 2.5	Pass
					4.00	-7.410	-0.0094	-2.5 to 2.5	Pass
				-30	3.70	-7.052	-0.0090	-2.5 to 2.5	Pass
				-20	3.70	-7.339	-0.0094	-2.5 to 2.5	Pass
				-10	3.70	-0.572	-0.0007	-2.5 to 2.5	Pass
				0	3.70	-7.939	-0.0101	-2.5 to 2.5	Pass
				10	3.70	-8.755	-0.0112	-2.5 to 2.5	Pass
				30	3.70	-6.881	-0.0088	-2.5 to 2.5	Pass
				40	3.70	-6.022	-0.0077	-2.5 to 2.5	Pass
16QAM	779.5	25	0	20	3.30	-4.592	-0.0059	-2.5 to 2.5	Pass
					3.70	-4.134	-0.0053	-2.5 to 2.5	Pass
					4.00	-8.883	-0.0114	-2.5 to 2.5	Pass
				-30	3.70	-8.841	-0.0113	-2.5 to 2.5	Pass
				-20	3.70	-6.938	-0.0089	-2.5 to 2.5	Pass
				-10	3.70	-8.154	-0.0105	-2.5 to 2.5	Pass
				0	3.70	-9.384	-0.0120	-2.5 to 2.5	Pass
				10	3.70	-6.137	-0.0079	-2.5 to 2.5	Pass
				30	3.70	2.117	0.0027	-2.5 to 2.5	Pass
				40	3.70	-5.279	-0.0068	-2.5 to 2.5	Pass
				50	3.70	-8.712	-0.0112	-2.5 to 2.5	Pass
	782	25	0	20	3.30	-5.136	-0.0066	-2.5 to 2.5	Pass
					3.70	-9.956	-0.0127	-2.5 to 2.5	Pass
					4.00	-7.839	-0.0100	-2.5 to 2.5	Pass
				-30	3.70	-6.781	-0.0087	-2.5 to 2.5	Pass
					3.70	-6.781	-0.0087	-2.5 to 2.5	Pass

				-20	3.70	-9.098	-0.0116	-2.5 to 2.5	Pass
				-10	3.70	-7.267	-0.0093	-2.5 to 2.5	Pass
				0	3.70	-6.237	-0.0080	-2.5 to 2.5	Pass
				10	3.70	-2.918	-0.0037	-2.5 to 2.5	Pass
				30	3.70	-8.583	-0.0110	-2.5 to 2.5	Pass
				40	3.70	-4.406	-0.0056	-2.5 to 2.5	Pass
				50	3.70	-8.583	-0.0110	-2.5 to 2.5	Pass
	784.5	25	0	20	3.30	-9.441	-0.0120	-2.5 to 2.5	Pass
					3.70	-10.085	-0.0129	-2.5 to 2.5	Pass
					4.00	-3.963	-0.0051	-2.5 to 2.5	Pass
				-30	3.70	-4.950	-0.0063	-2.5 to 2.5	Pass
				-20	3.70	-7.281	-0.0093	-2.5 to 2.5	Pass
				-10	3.70	-6.366	-0.0081	-2.5 to 2.5	Pass
				0	3.70	-9.942	-0.0127	-2.5 to 2.5	Pass
				10	3.70	-7.567	-0.0096	-2.5 to 2.5	Pass
				30	3.70	-8.097	-0.0103	-2.5 to 2.5	Pass
				40	3.70	-8.841	-0.0113	-2.5 to 2.5	Pass
				50	3.70	-1.402	-0.0018	-2.5 to 2.5	Pass

2.2 B13_10MHz

2.2.1 Test Result

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	-10.185	-0.0130	-2.5 to 2.5	Pass
					3.70	-7.010	-0.0090	-2.5 to 2.5	Pass
					4.00	-3.877	-0.0050	-2.5 to 2.5	Pass
				-30	3.70	-7.796	-0.0100	-2.5 to 2.5	Pass
				-20	3.70	-5.679	-0.0073	-2.5 to 2.5	Pass
				-10	3.70	-6.437	-0.0082	-2.5 to 2.5	Pass
				0	3.70	-7.038	-0.0090	-2.5 to 2.5	Pass
				10	3.70	-7.195	-0.0092	-2.5 to 2.5	Pass
				30	3.70	-6.537	-0.0084	-2.5 to 2.5	Pass
				40	3.70	-10.185	-0.0130	-2.5 to 2.5	Pass
				50	3.70	-6.008	-0.0077	-2.5 to 2.5	Pass
	782	50	0	20	3.30	-3.791	-0.0048	-2.5 to 2.5	Pass
					3.70	-6.709	-0.0086	-2.5 to 2.5	Pass
					4.00	-5.765	-0.0074	-2.5 to 2.5	Pass
				-30	3.70	-6.866	-0.0088	-2.5 to 2.5	Pass
				-20	3.70	-8.669	-0.0111	-2.5 to 2.5	Pass
				-10	3.70	-8.283	-0.0106	-2.5 to 2.5	Pass
				0	3.70	-5.908	-0.0076	-2.5 to 2.5	Pass
				10	3.70	-6.638	-0.0085	-2.5 to 2.5	Pass
				30	3.70	-3.247	-0.0042	-2.5 to 2.5	Pass
				40	3.70	-4.120	-0.0053	-2.5 to 2.5	Pass
				50	3.70	-6.781	-0.0087	-2.5 to 2.5	Pass
	782	50	0	20	3.30	-4.721	-0.0060	-2.5 to 2.5	Pass
					3.70	-9.112	-0.0117	-2.5 to 2.5	Pass
					4.00	-5.093	-0.0065	-2.5 to 2.5	Pass
				-30	3.70	-7.668	-0.0098	-2.5 to 2.5	Pass
				-20	3.70	-7.124	-0.0091	-2.5 to 2.5	Pass
				-10	3.70	-8.054	-0.0103	-2.5 to 2.5	Pass
				0	3.70	-8.469	-0.0108	-2.5 to 2.5	Pass
				10	3.70	-8.197	-0.0105	-2.5 to 2.5	Pass
				30	3.70	-5.794	-0.0074	-2.5 to 2.5	Pass

16QAM	782	50	0	40	3.70	-6.437	-0.0082	-2.5 to 2.5	Pass
				50	3.70	-8.740	-0.0112	-2.5 to 2.5	Pass
				20	3.30	-7.138	-0.0091	-2.5 to 2.5	Pass
					3.70	-3.462	-0.0044	-2.5 to 2.5	Pass
					4.00	-7.067	-0.0090	-2.5 to 2.5	Pass
				-30	3.70	-7.124	-0.0091	-2.5 to 2.5	Pass
				-20	3.70	-6.952	-0.0089	-2.5 to 2.5	Pass
				-10	3.70	-5.822	-0.0074	-2.5 to 2.5	Pass
				0	3.70	-4.520	-0.0058	-2.5 to 2.5	Pass
				10	3.70	-8.912	-0.0114	-2.5 to 2.5	Pass
	782	50	0	30	3.70	-5.007	-0.0064	-2.5 to 2.5	Pass
				40	3.70	-5.035	-0.0064	-2.5 to 2.5	Pass
				50	3.70	-4.034	-0.0052	-2.5 to 2.5	Pass
				20	3.30	-8.054	-0.0103	-2.5 to 2.5	Pass
					3.70	-5.193	-0.0066	-2.5 to 2.5	Pass
					4.00	-2.360	-0.0030	-2.5 to 2.5	Pass
				-30	3.70	-5.050	-0.0065	-2.5 to 2.5	Pass
				-20	3.70	-4.678	-0.0060	-2.5 to 2.5	Pass
				-10	3.70	-4.292	-0.0055	-2.5 to 2.5	Pass
				0	3.70	-8.225	-0.0105	-2.5 to 2.5	Pass
	782	50	0	10	3.70	-10.028	-0.0128	-2.5 to 2.5	Pass
				30	3.70	-11.215	-0.0143	-2.5 to 2.5	Pass
				40	3.70	-9.084	-0.0116	-2.5 to 2.5	Pass
				50	3.70	-10.786	-0.0138	-2.5 to 2.5	Pass
				20	3.30	-4.263	-0.0055	-2.5 to 2.5	Pass
					3.70	-9.270	-0.0119	-2.5 to 2.5	Pass
					4.00	-6.723	-0.0086	-2.5 to 2.5	Pass
				-30	3.70	-8.626	-0.0110	-2.5 to 2.5	Pass
				-20	3.70	-3.304	-0.0042	-2.5 to 2.5	Pass
				-10	3.70	-4.935	-0.0063	-2.5 to 2.5	Pass
				0	3.70	-5.207	-0.0067	-2.5 to 2.5	Pass
				10	3.70	-6.394	-0.0082	-2.5 to 2.5	Pass
				30	3.70	-5.937	-0.0076	-2.5 to 2.5	Pass
				40	3.70	-6.866	-0.0088	-2.5 to 2.5	Pass
				50	3.70	-5.422	-0.0069	-2.5 to 2.5	Pass

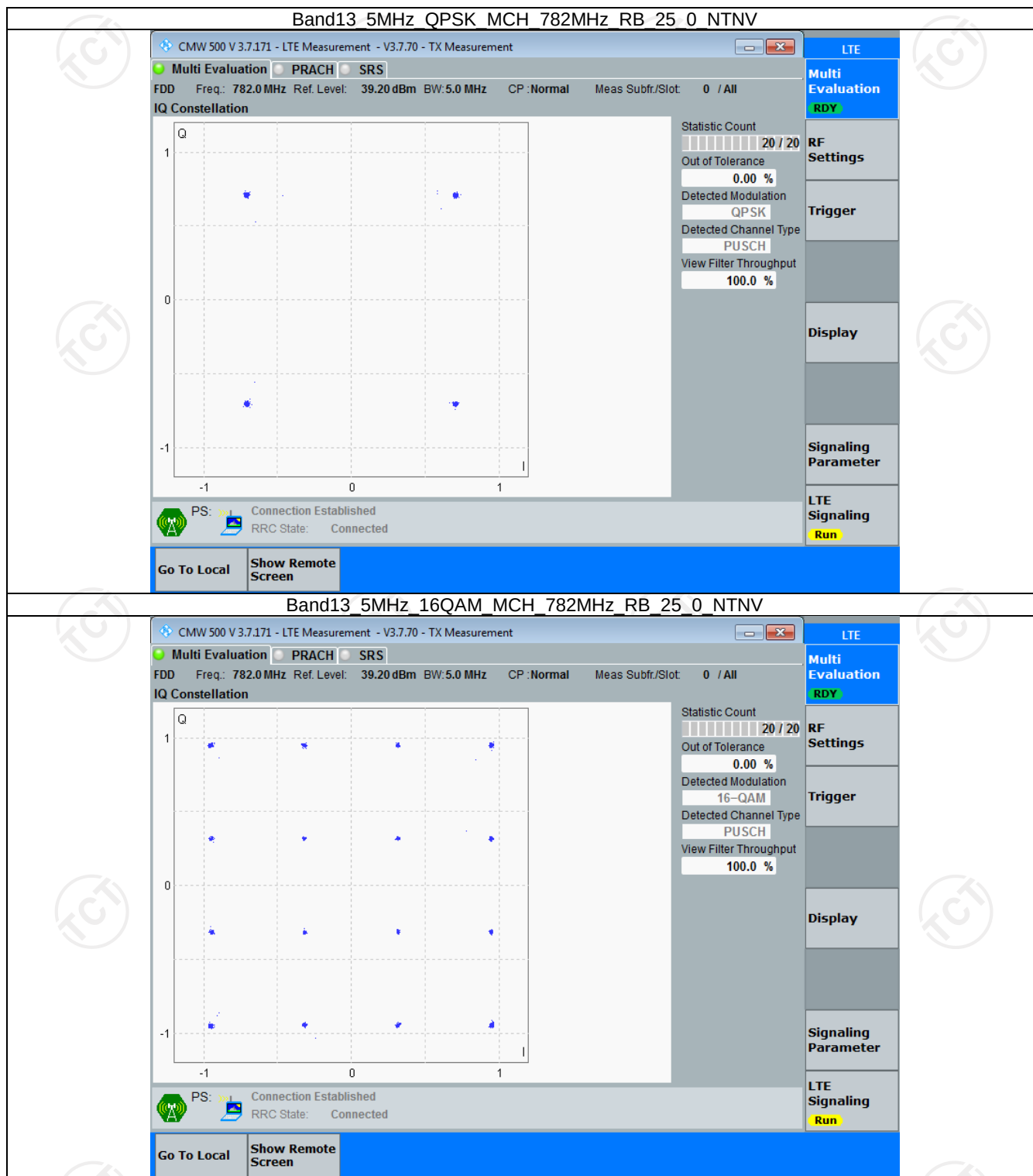
3. Modulation Characteristics

3.1 B13_5MHz

3.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTN						
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 Test Graph

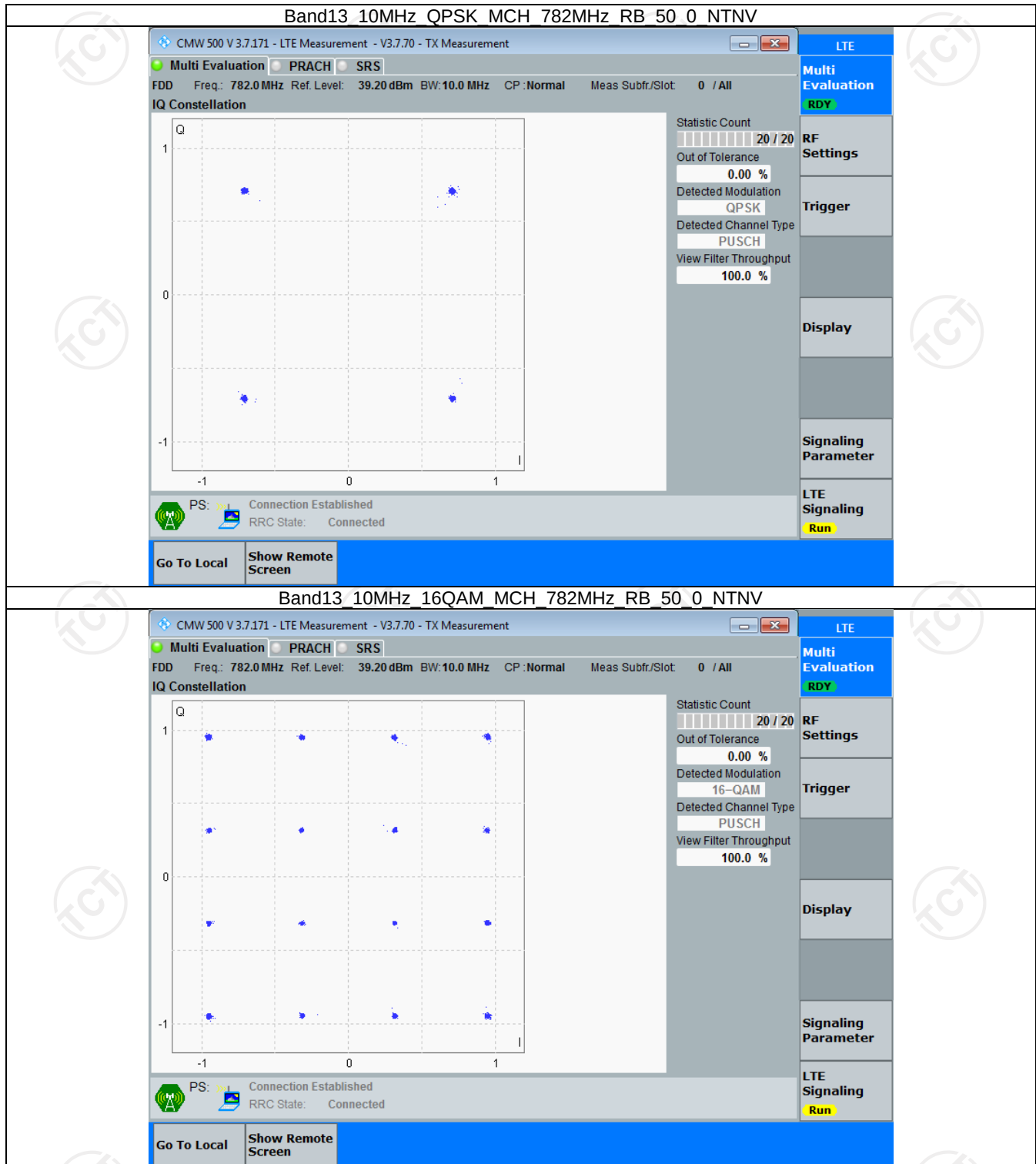


3.2 B13_10MHz

3.2.1 Test Result

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

3.2.2 Test Graph



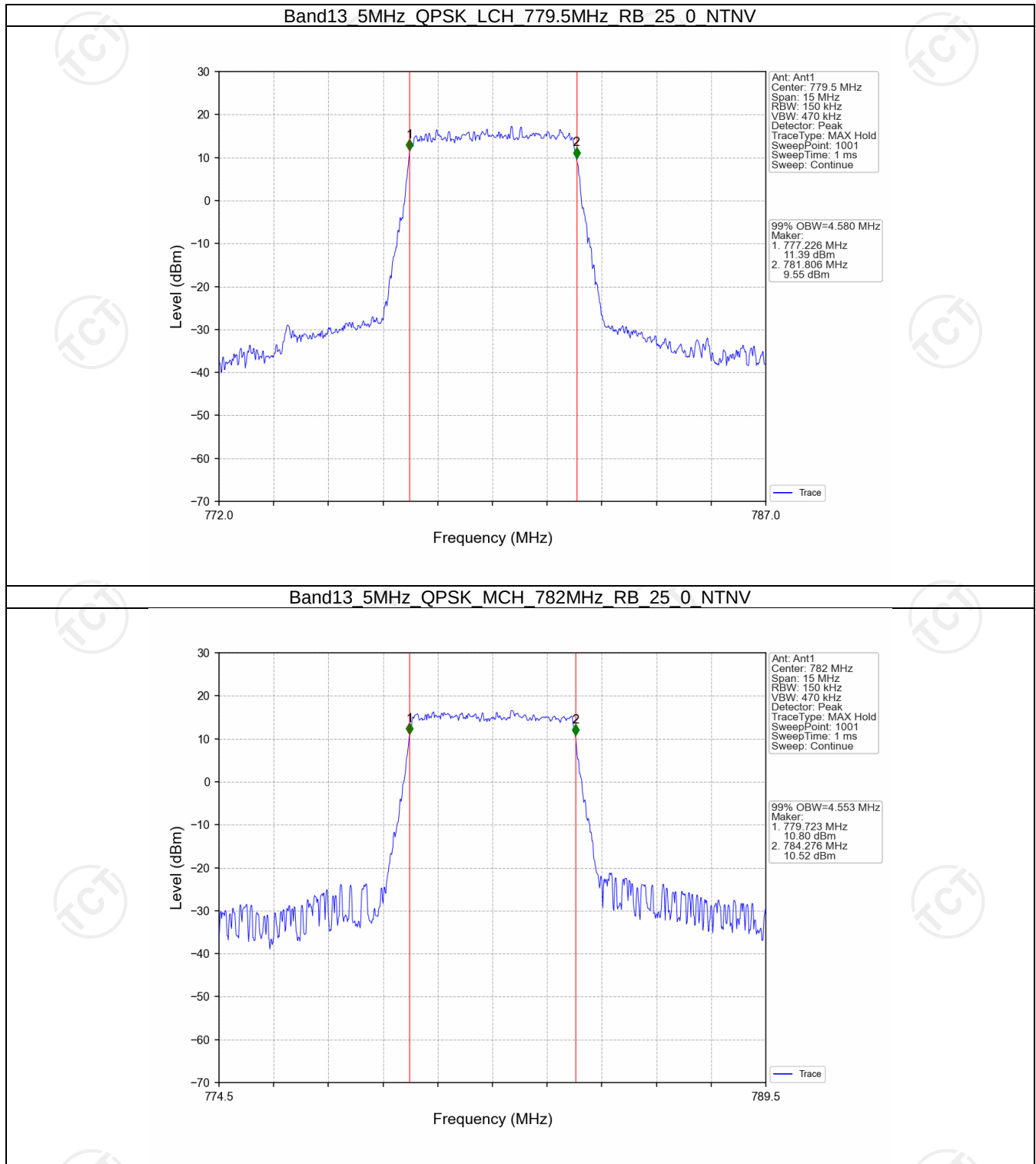
4. 99% & 26dB Bandwidth

4.1 Band13_OBW

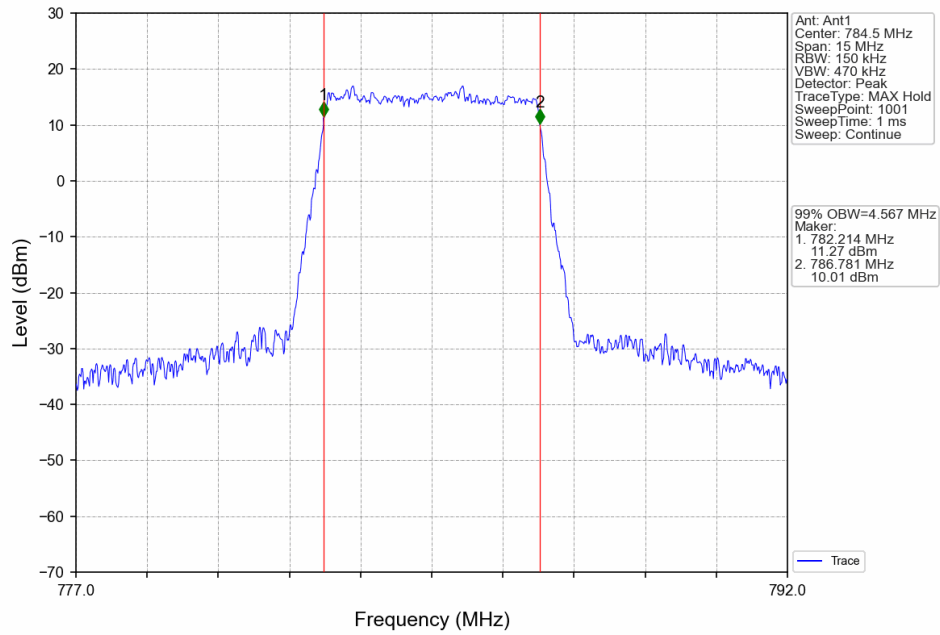
4.1.1 Test Result

Band: 13 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	779.5	25	0	4.580	Pass
		782	25	0	4.553	Pass
		784.5	25	0	4.567	Pass
	16QAM	779.5	25	0	4.563	Pass
		782	25	0	4.560	Pass
		784.5	25	0	4.582	Pass
10	QPSK	782	50	0	9.046	Pass
		782	50	0	9.032	Pass
		782	50	0	9.039	Pass
	16QAM	782	50	0	9.017	Pass
		782	50	0	9.064	Pass
		782	50	0	9.018	Pass

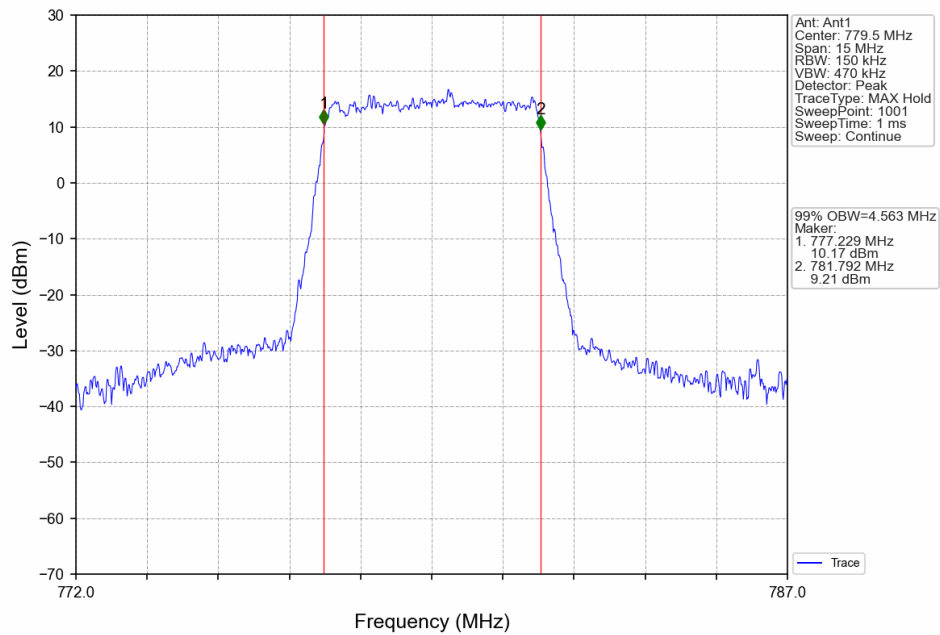
4.1.2 Test Graph



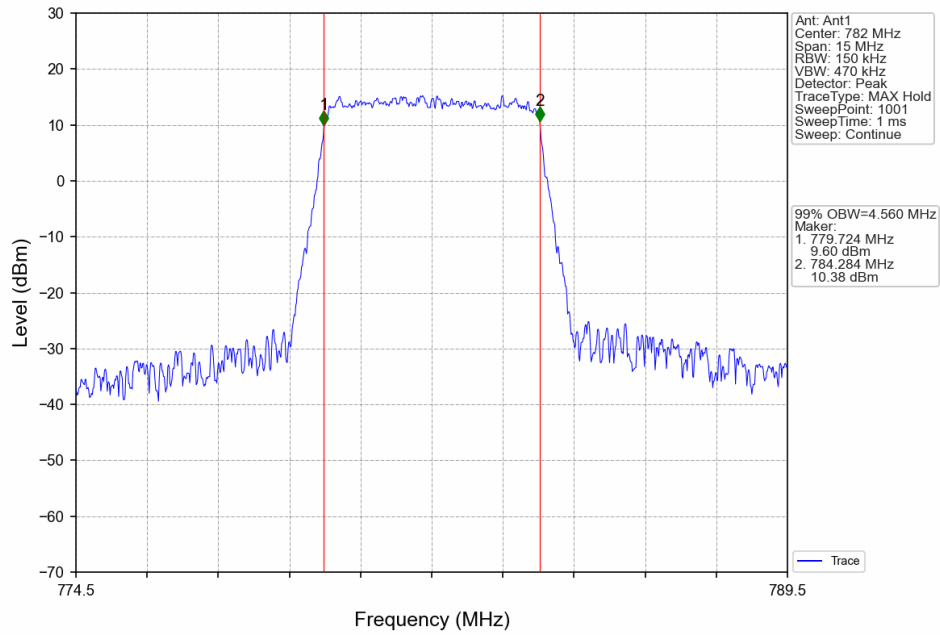
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



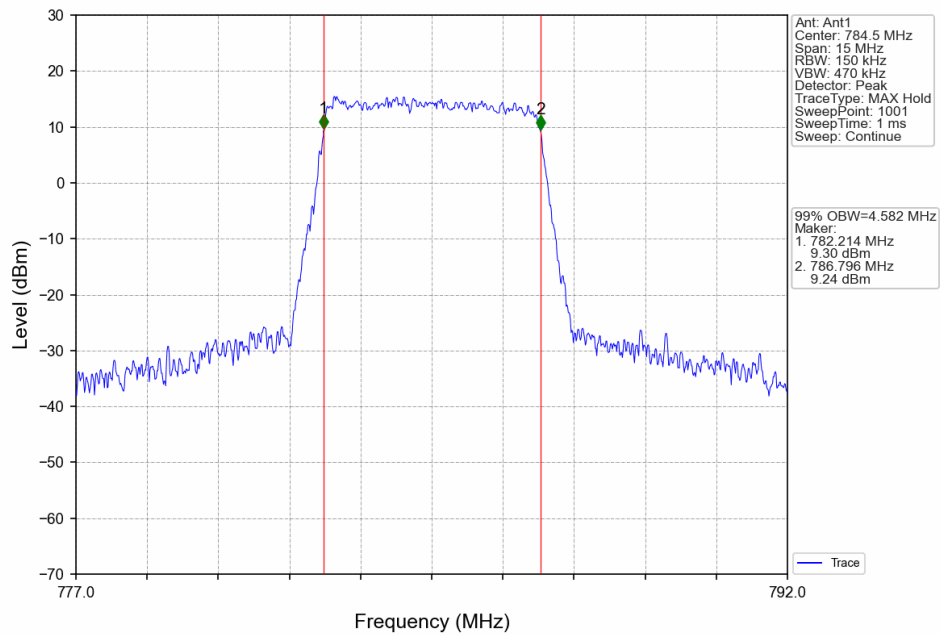
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



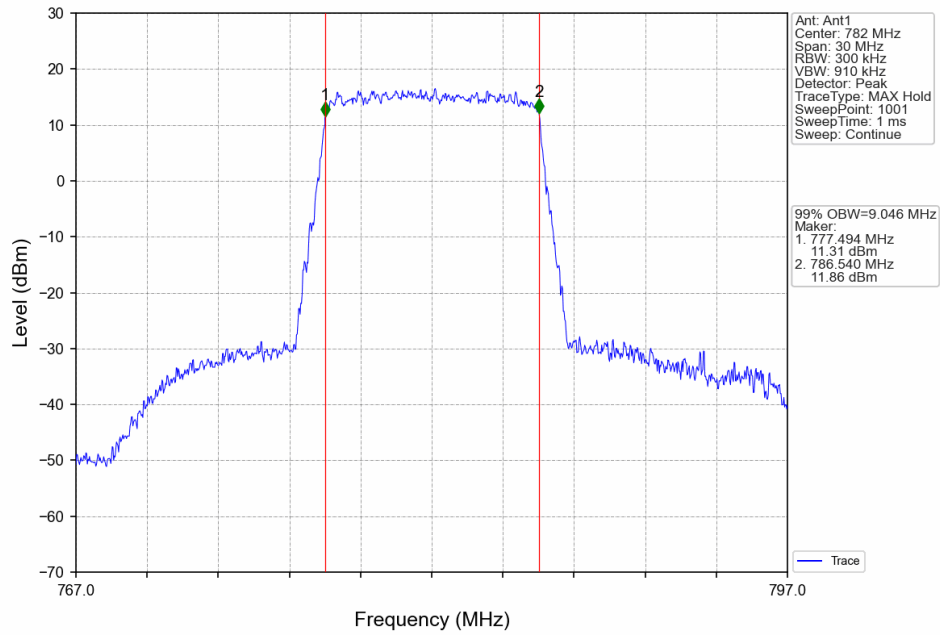
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



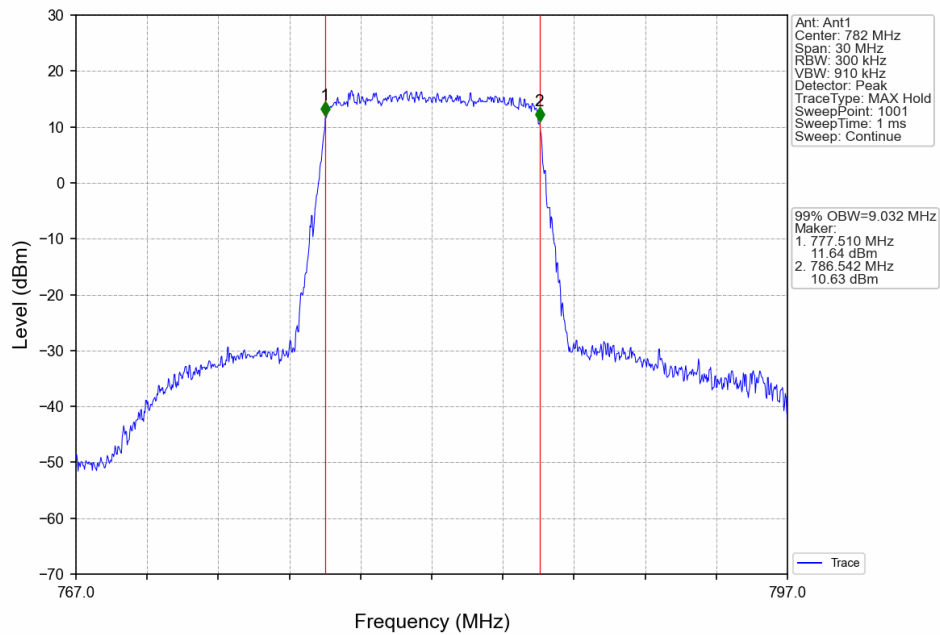
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



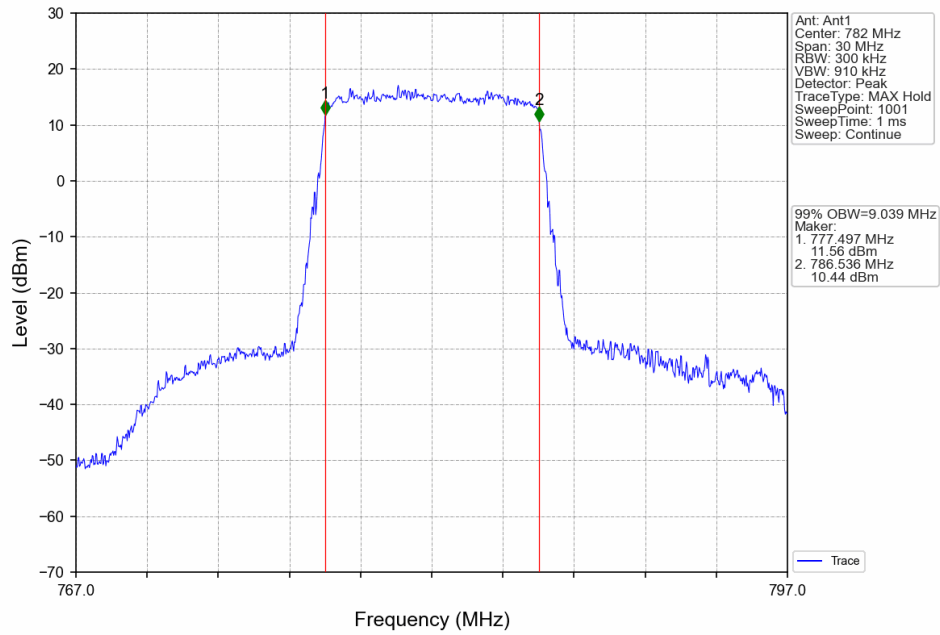
Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



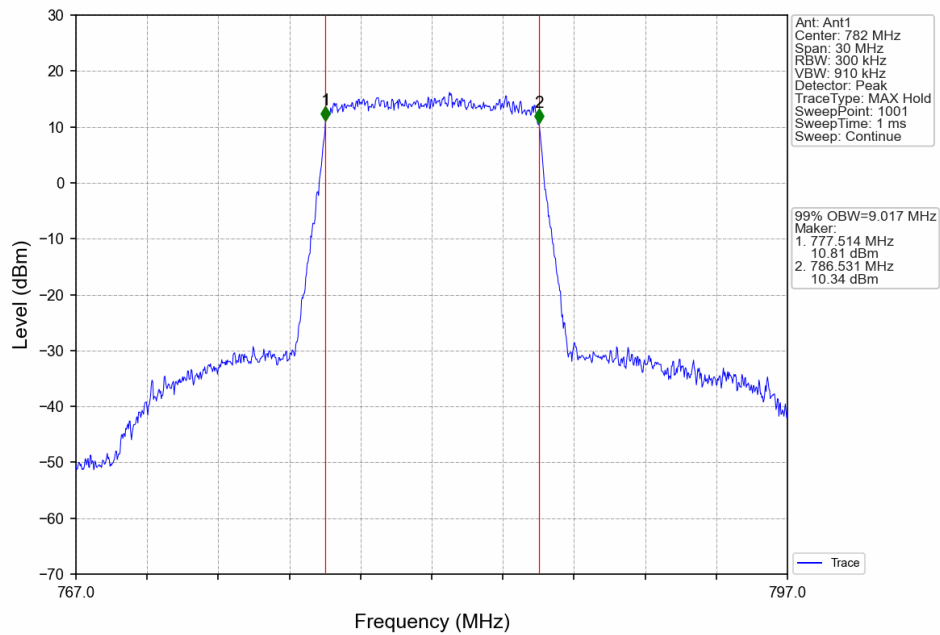
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



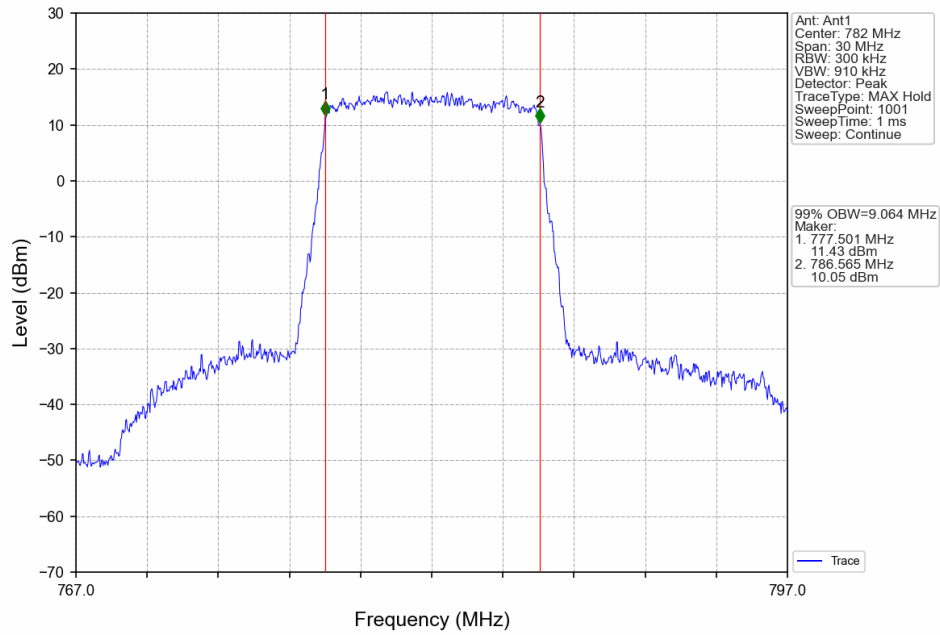
Band13_10MHz_QPSK_HCH_782MHz_RB_50_0_NTNV



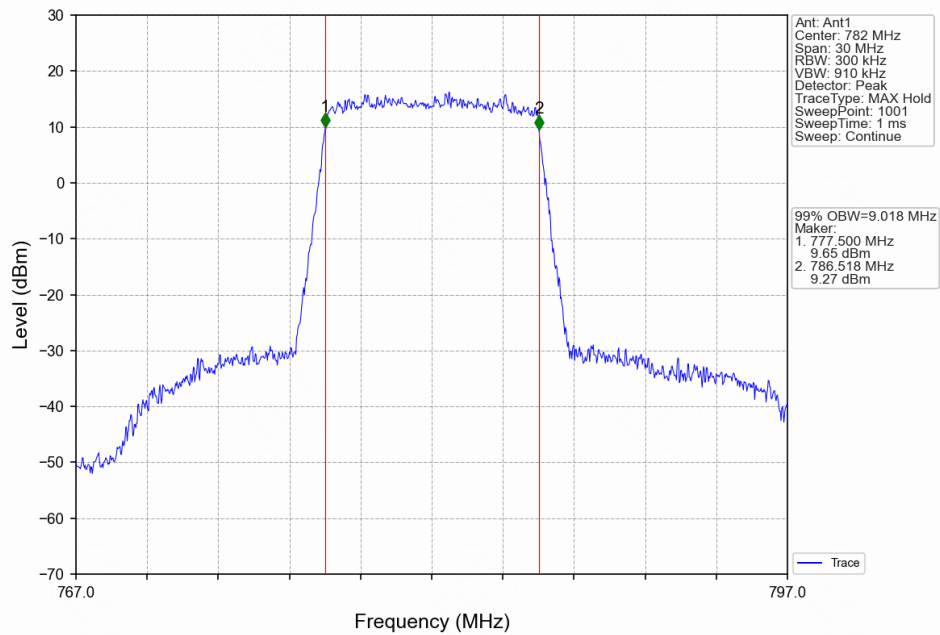
Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_HCH_782MHz_RB_50_0_NTNV

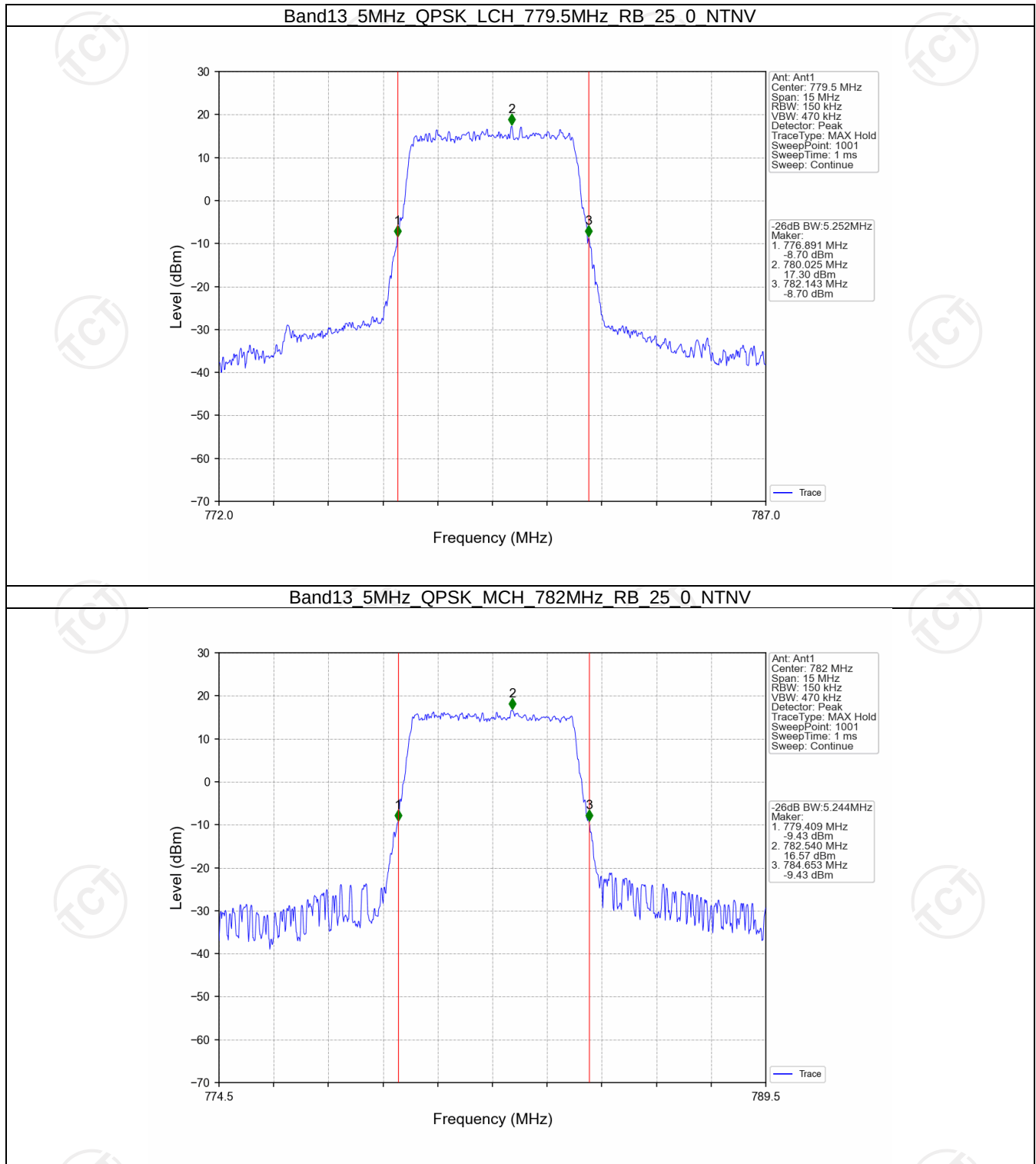


4.2 Band13_XDB

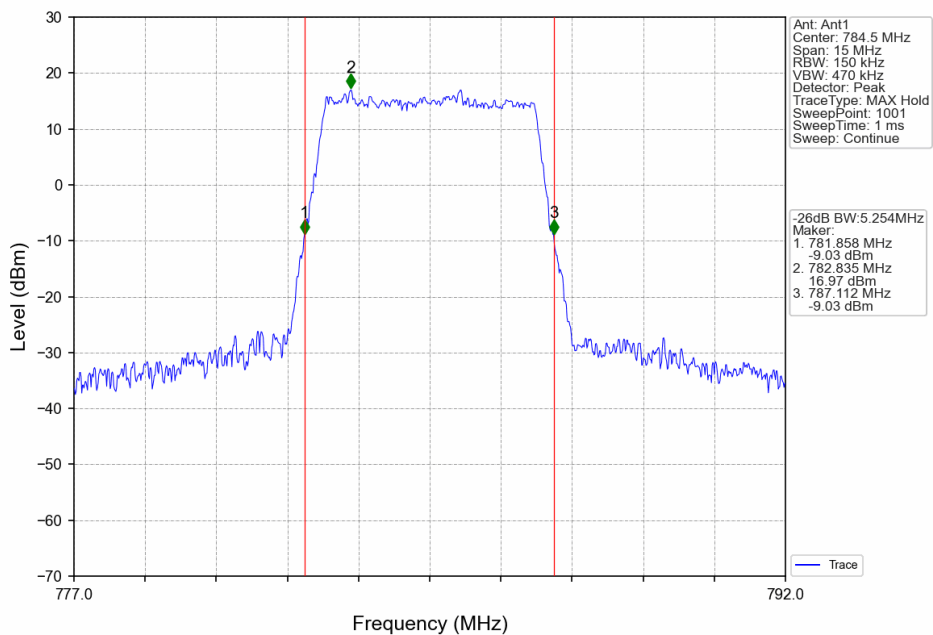
4.2.1 Test Result

Band: 13 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	779.5	25	0	5.252	Pass
		782	25	0	5.244	Pass
		784.5	25	0	5.254	Pass
	16QAM	779.5	25	0	5.170	Pass
		782	25	0	5.234	Pass
		784.5	25	0	5.283	Pass
10	QPSK	782	50	0	10.303	Pass
		782	50	0	10.282	Pass
		782	50	0	10.225	Pass
	16QAM	782	50	0	10.175	Pass
		782	50	0	10.196	Pass
		782	50	0	10.087	Pass

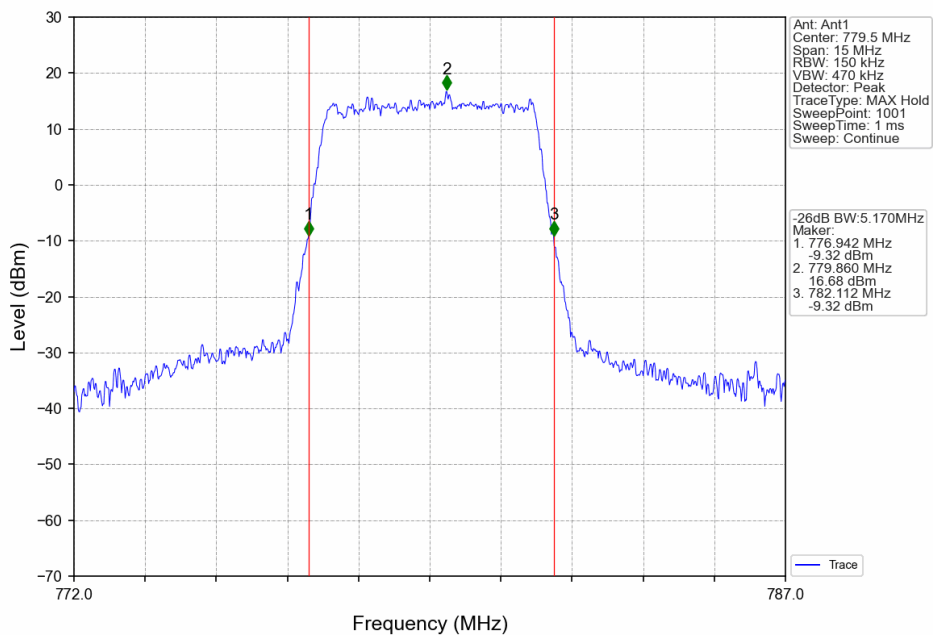
4.2.2 Test Graph



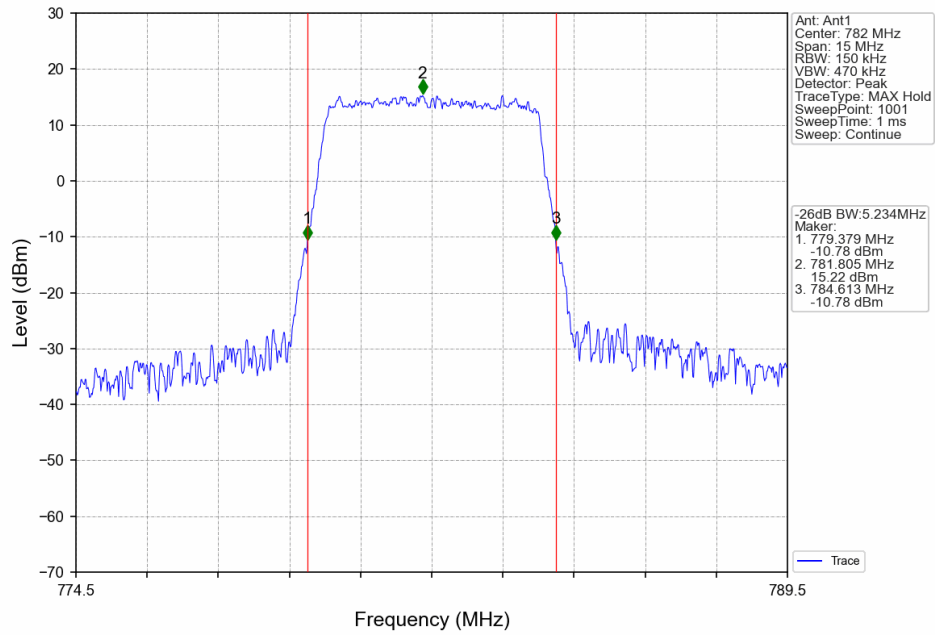
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



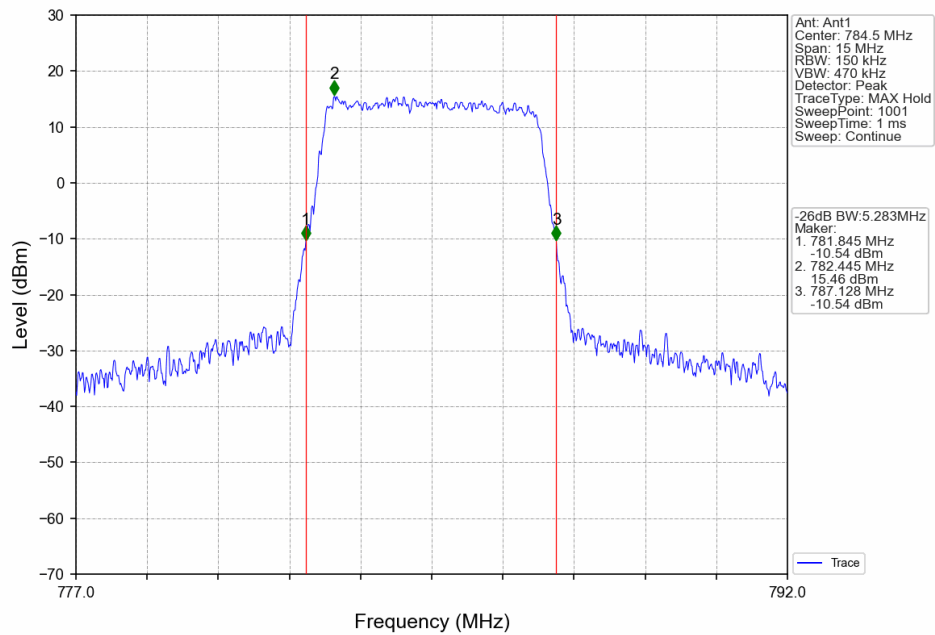
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



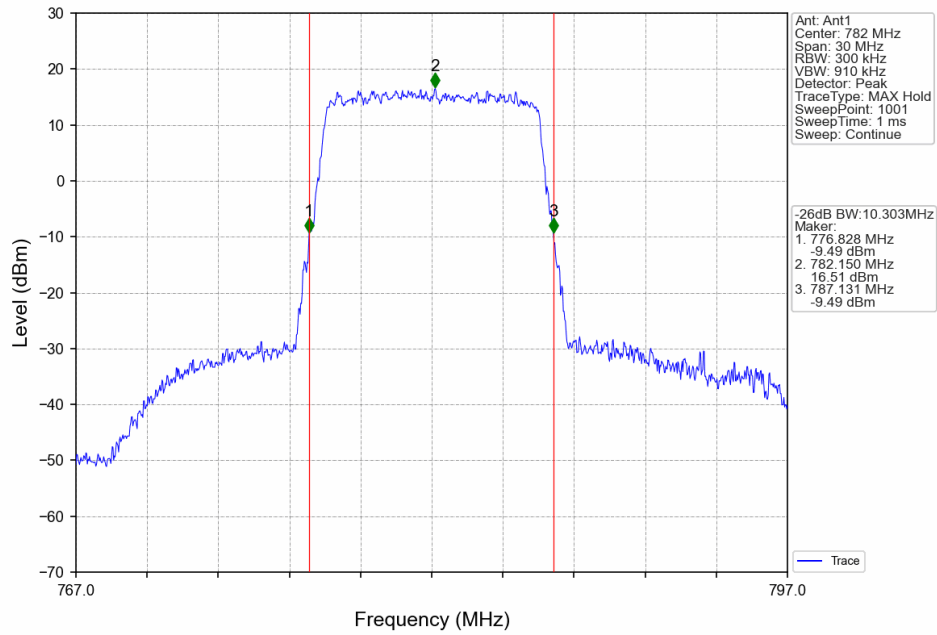
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



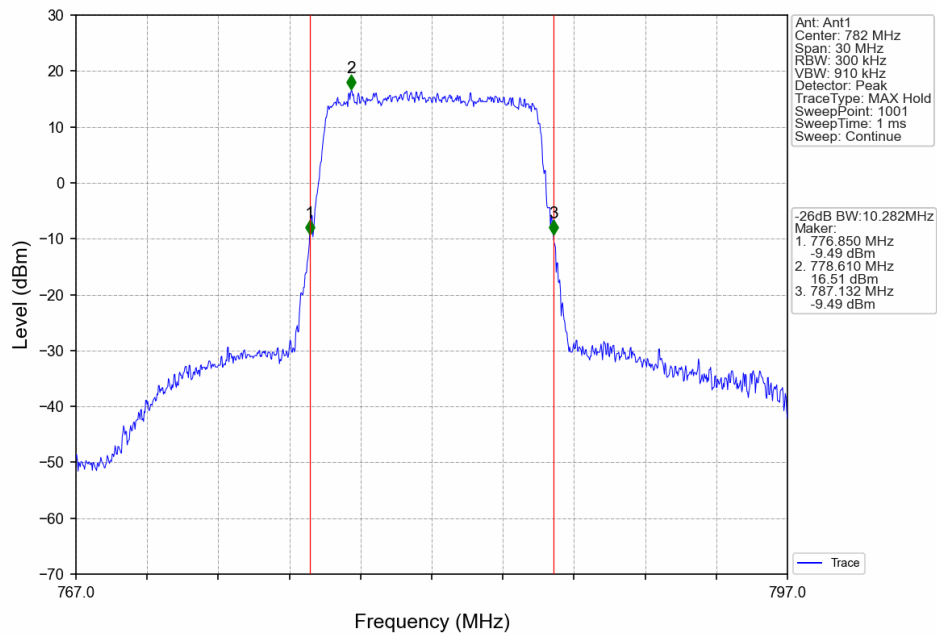
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



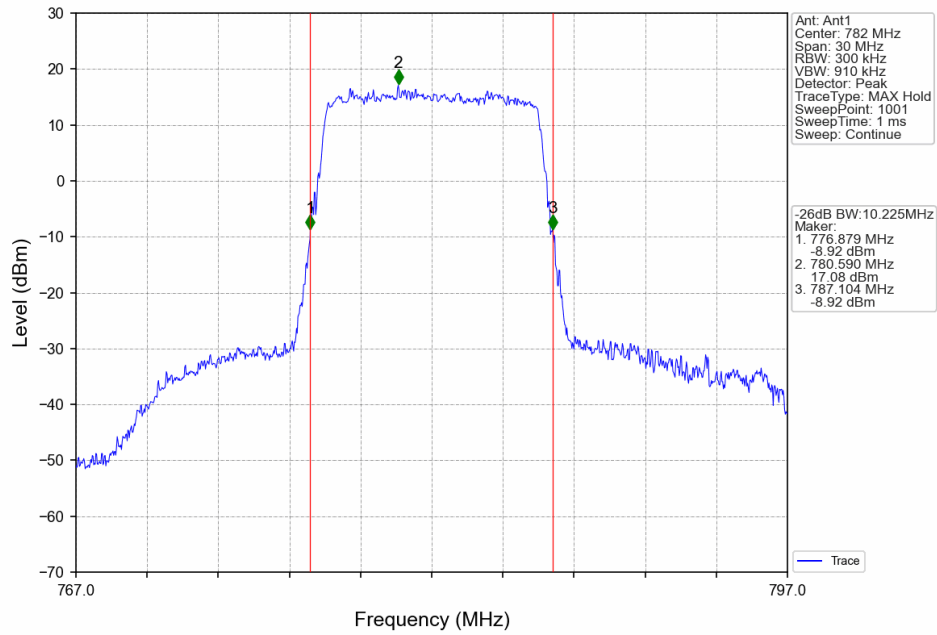
Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



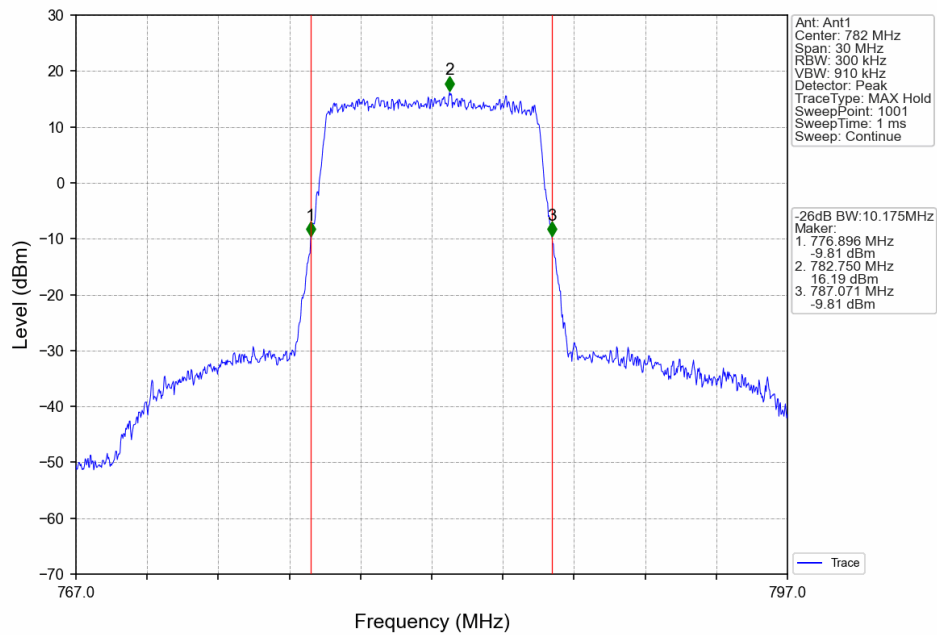
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



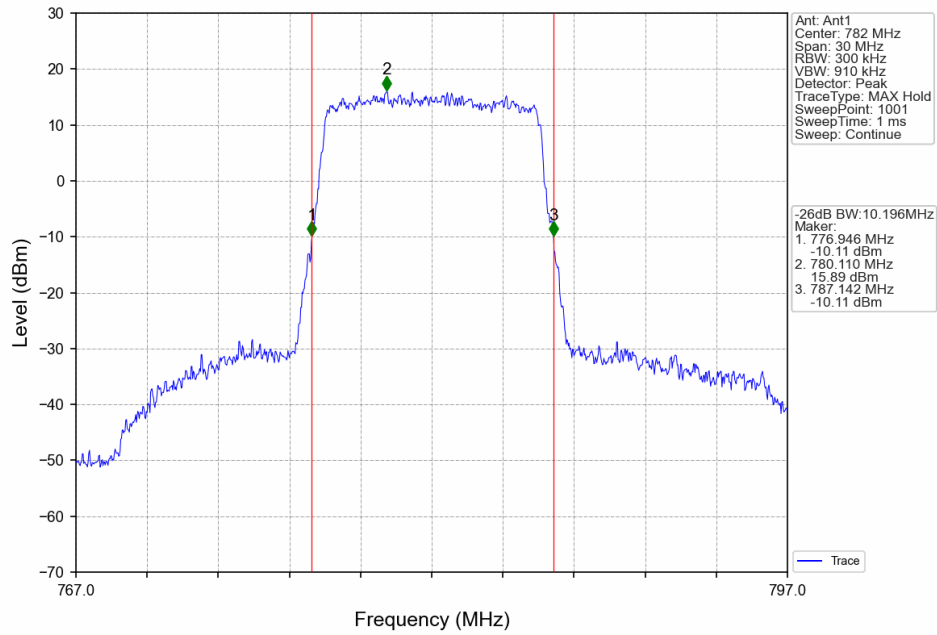
Band13_10MHz_QPSK_HCH_782MHz_RB_50_0_NTNV



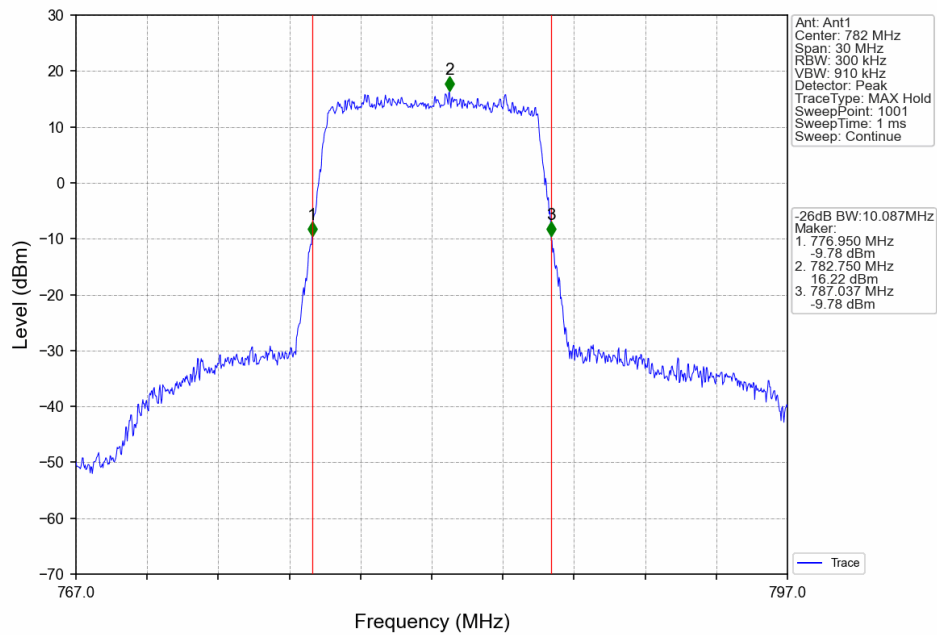
Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_HCH_782MHz_RB_50_0_NTNV



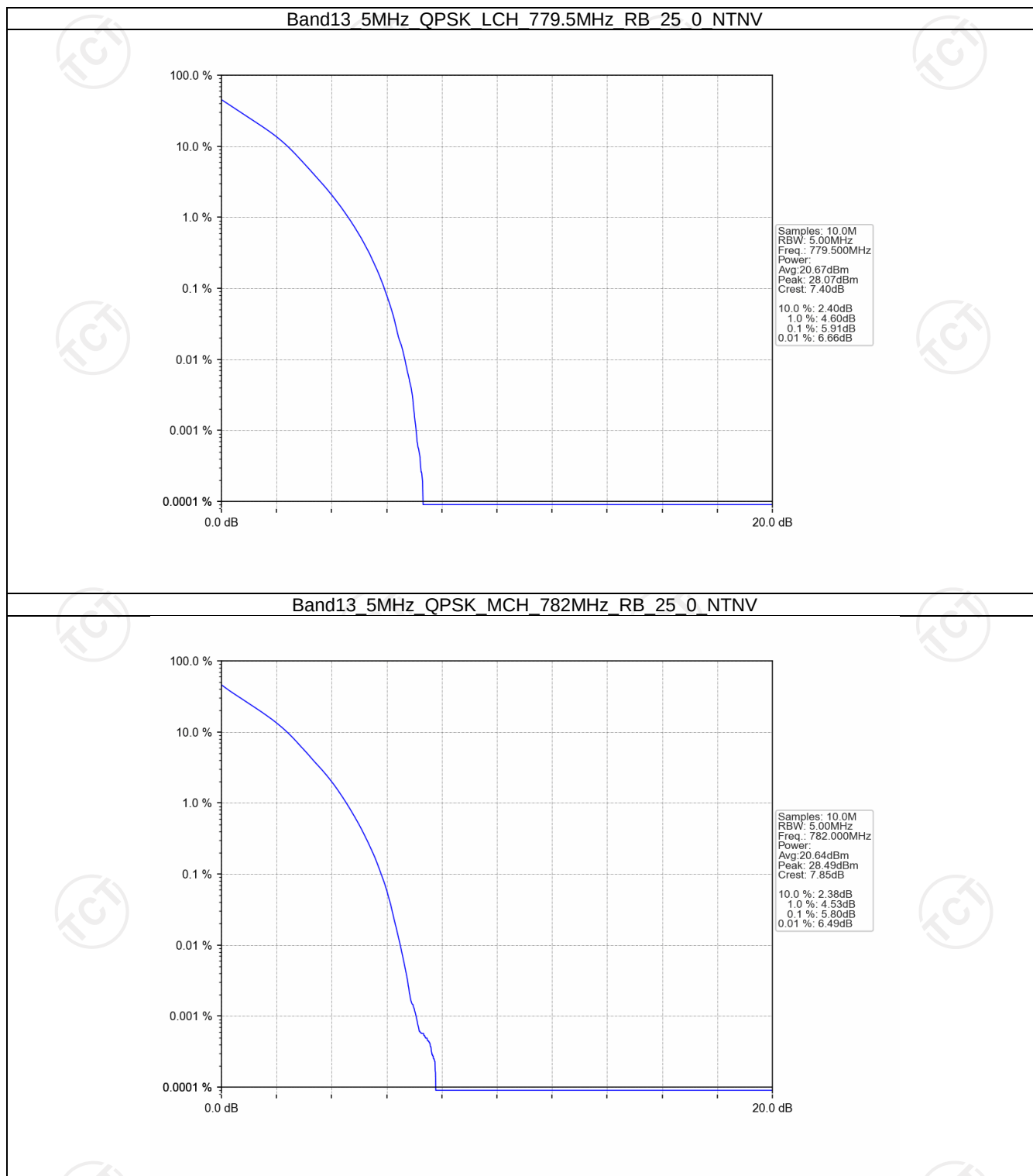
5. Peak-Average Ratio

5.1 B13_5MHz

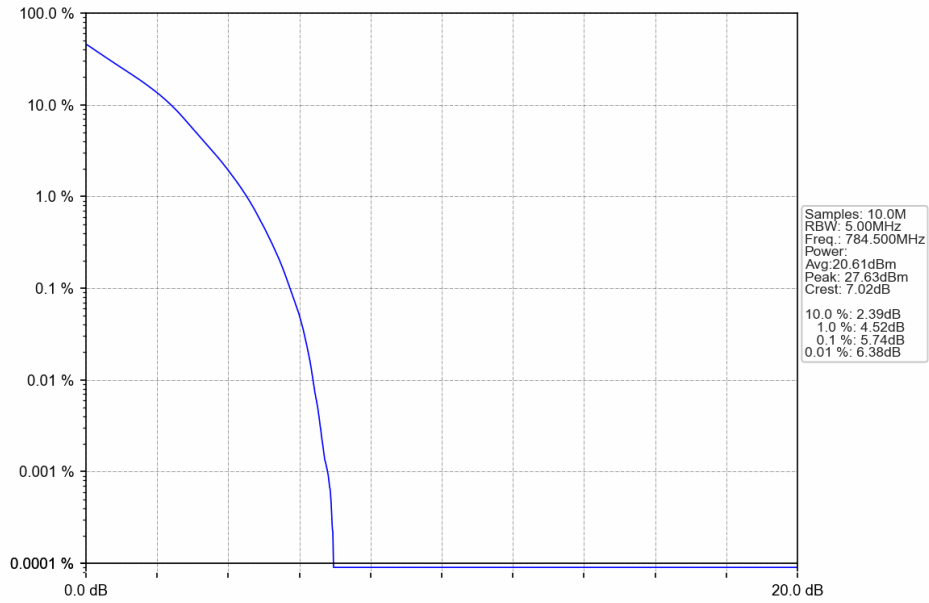
5.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	25	0	5.91	<=13	Pass
	782	25	0	5.80	<=13	Pass
	784.5	25	0	5.74	<=13	Pass
16QAM	779.5	25	0	6.58	<=13	Pass
	782	25	0	6.50	<=13	Pass
	784.5	25	0	6.47	<=13	Pass

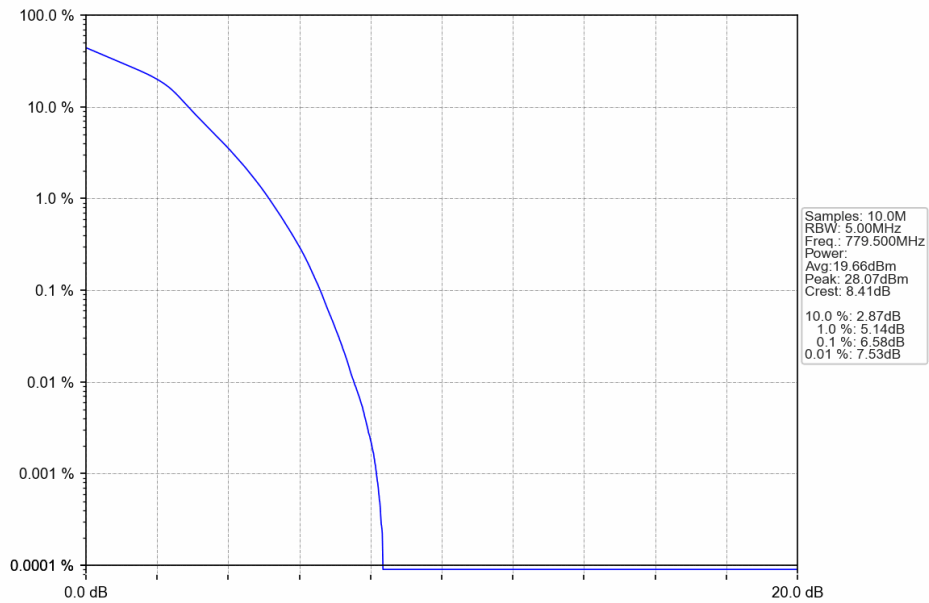
5.1.2 Test Graph



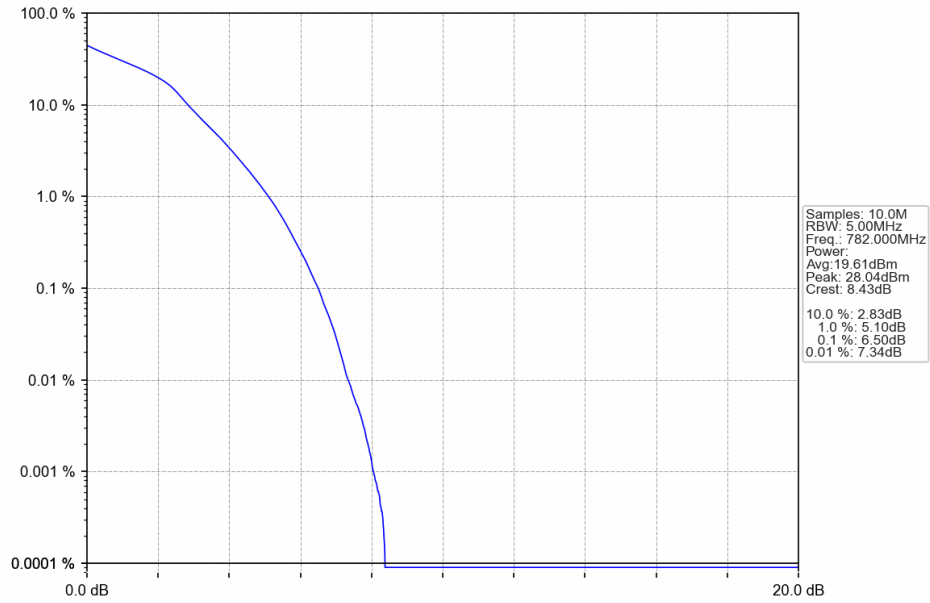
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



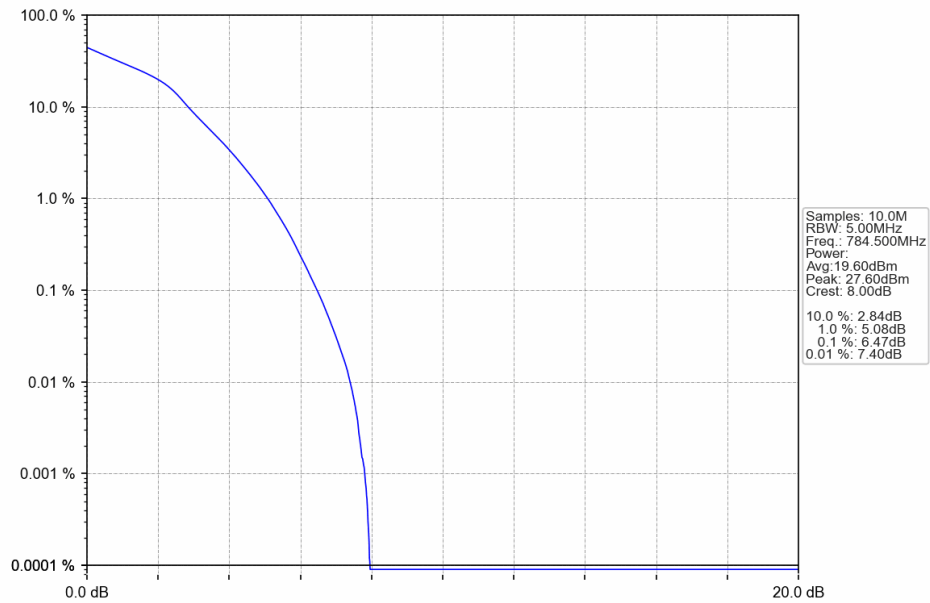
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV

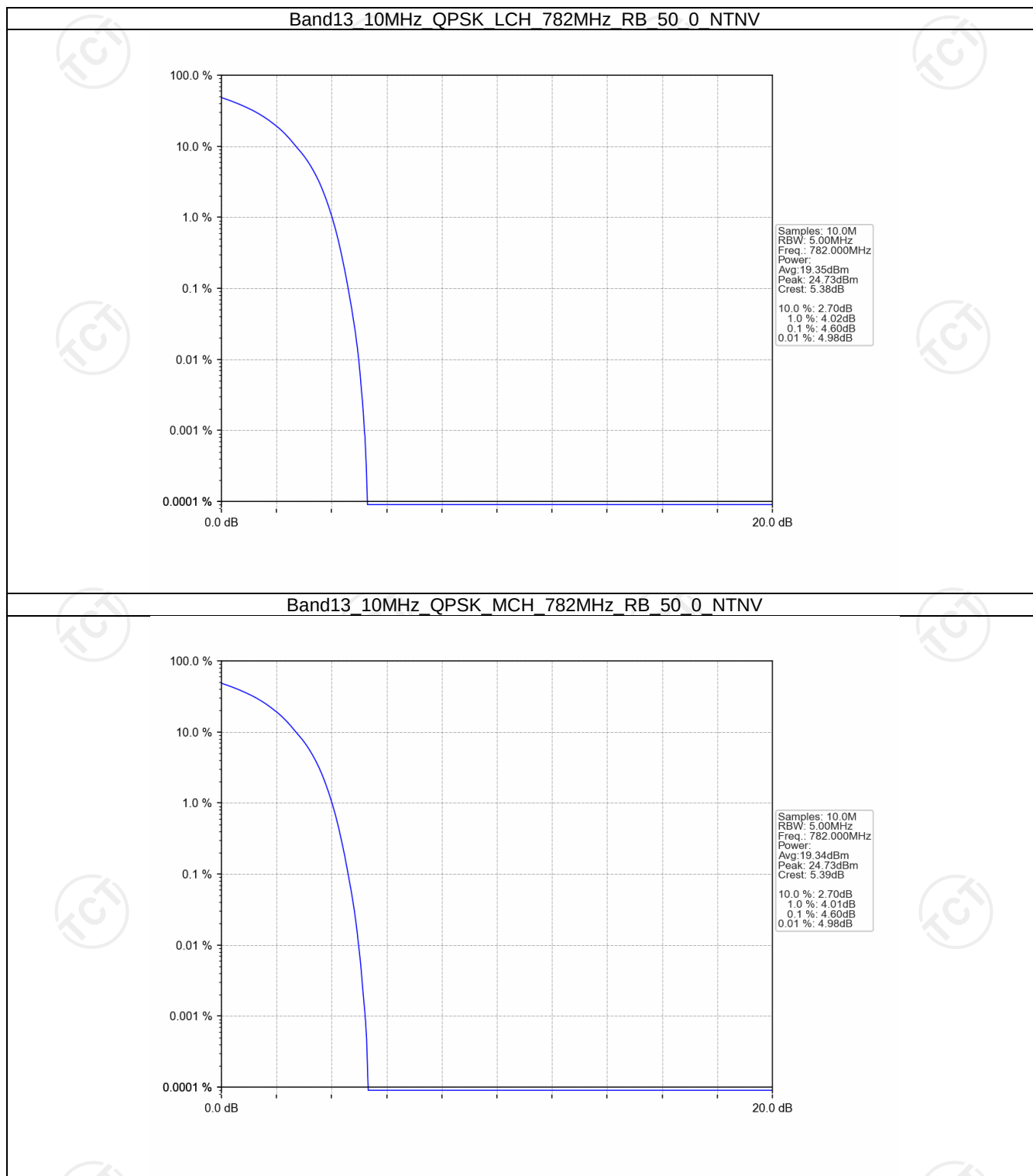


5.2 B13_10MHz

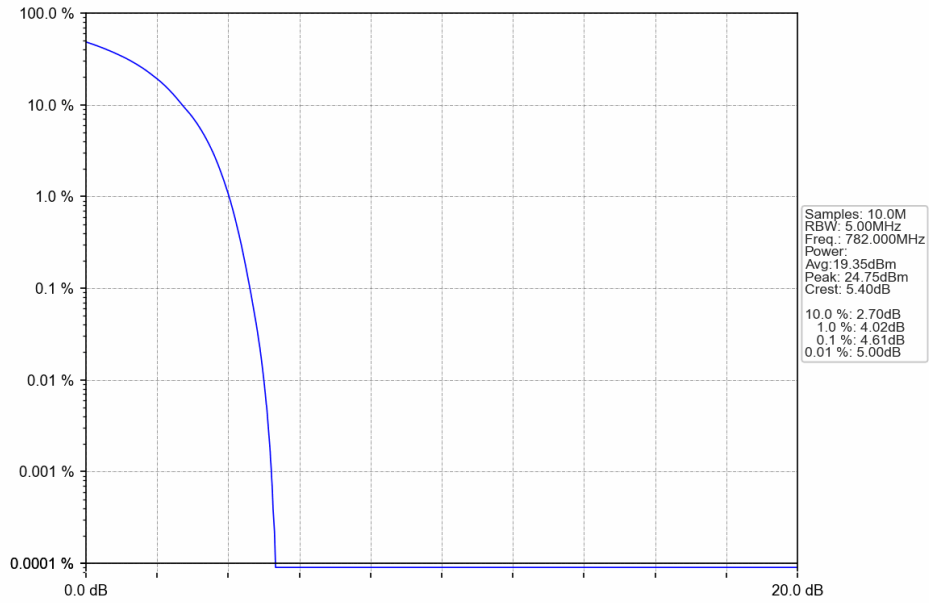
5.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	4.60	<=13	Pass
	782	50	0	4.60	<=13	Pass
	782	50	0	4.61	<=13	Pass
16QAM	782	50	0	6.17	<=13	Pass
	782	50	0	6.16	<=13	Pass
	782	50	0	6.16	<=13	Pass

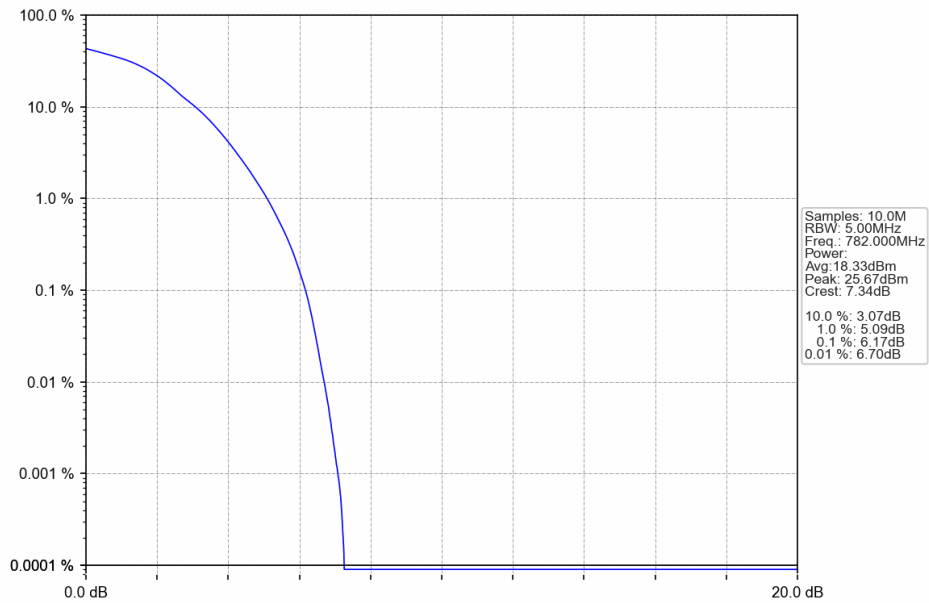
5.2.2 Test Graph



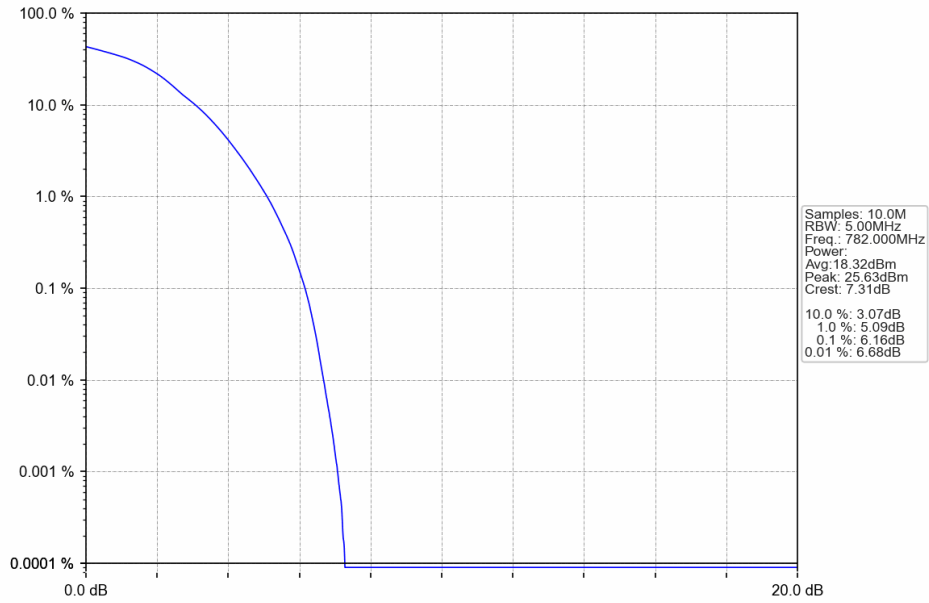
Band13_10MHz_QPSK_HCH_782MHz_RB_50_0_NTNV



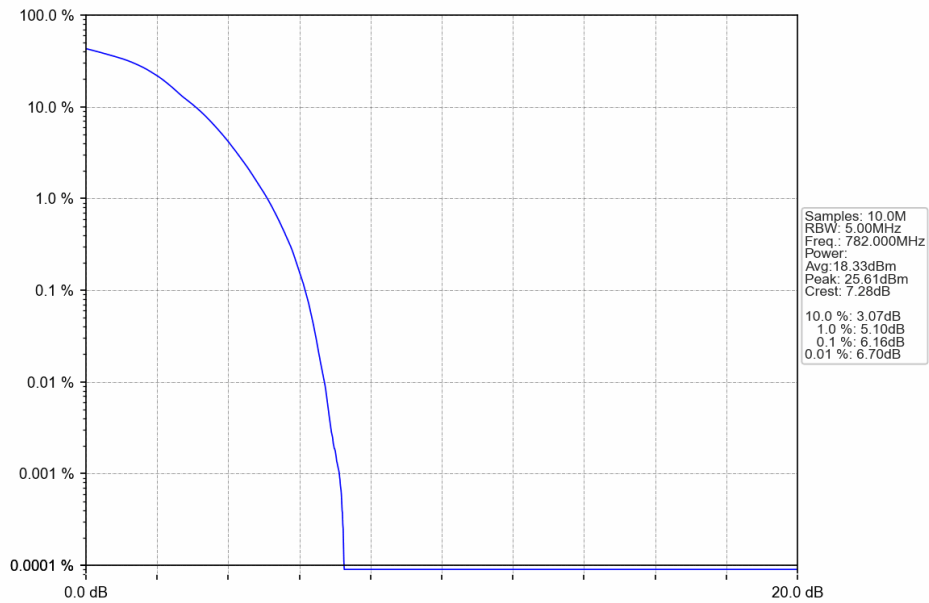
Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_HCH_782MHz_RB_50_0_NTNV



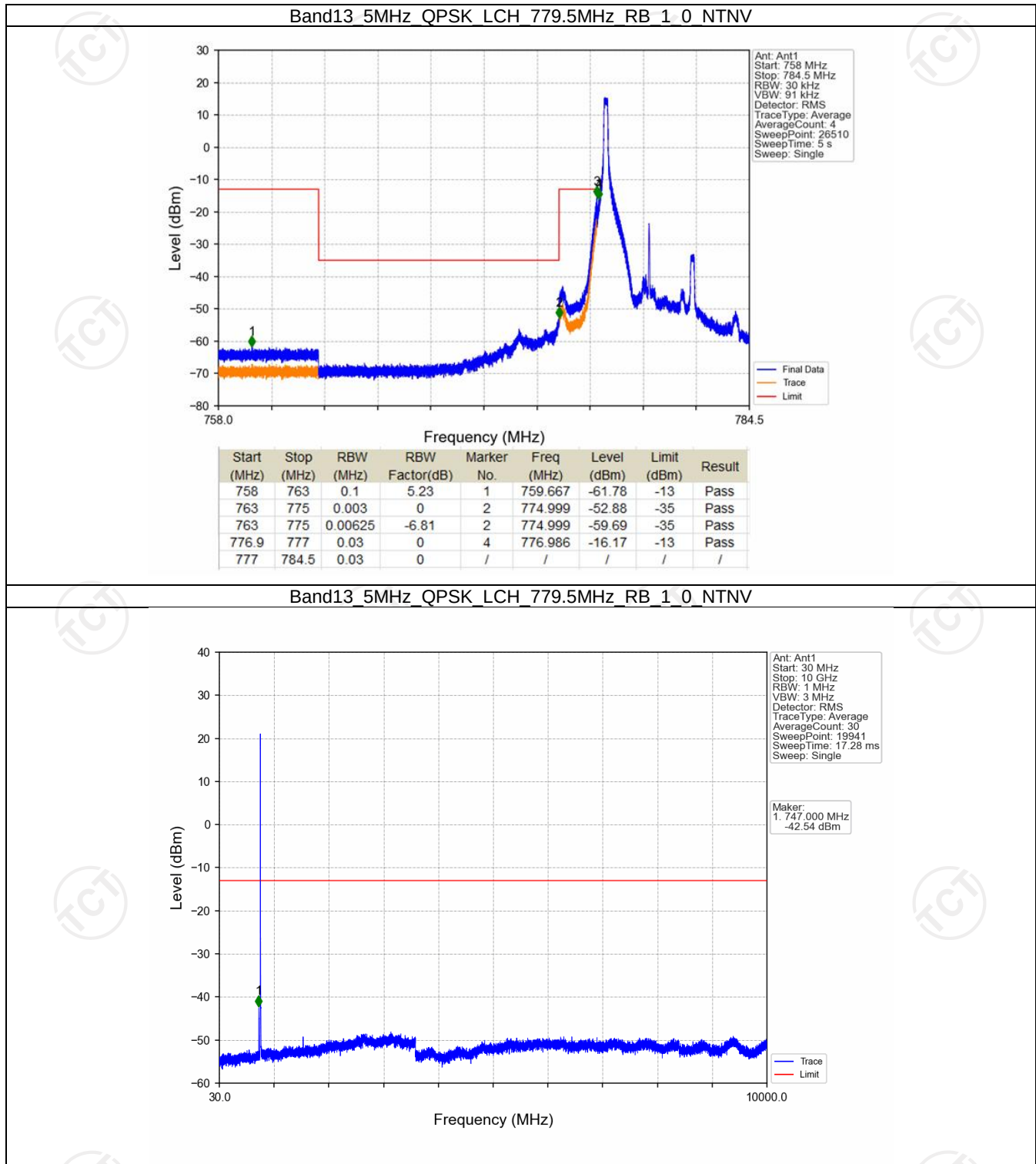
6. Spurious Emission

6.1 B13_5MHz

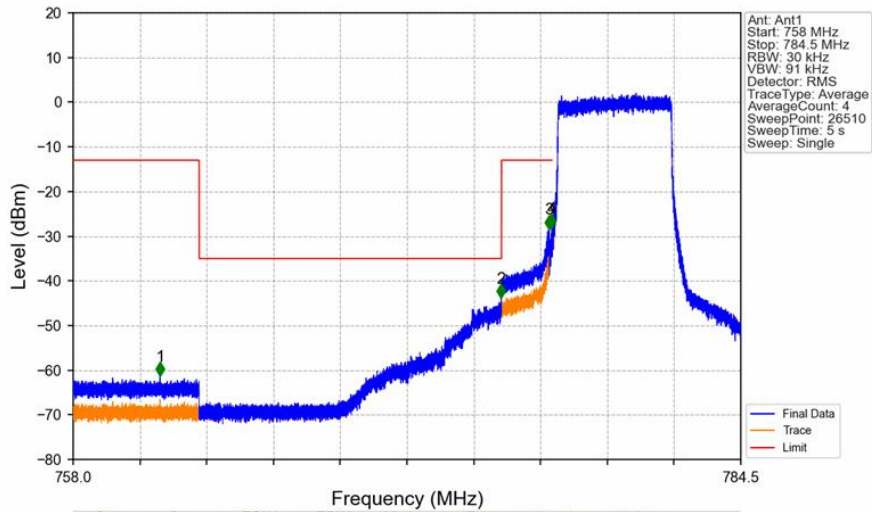
6.1.1 Test Result

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 Test Graph

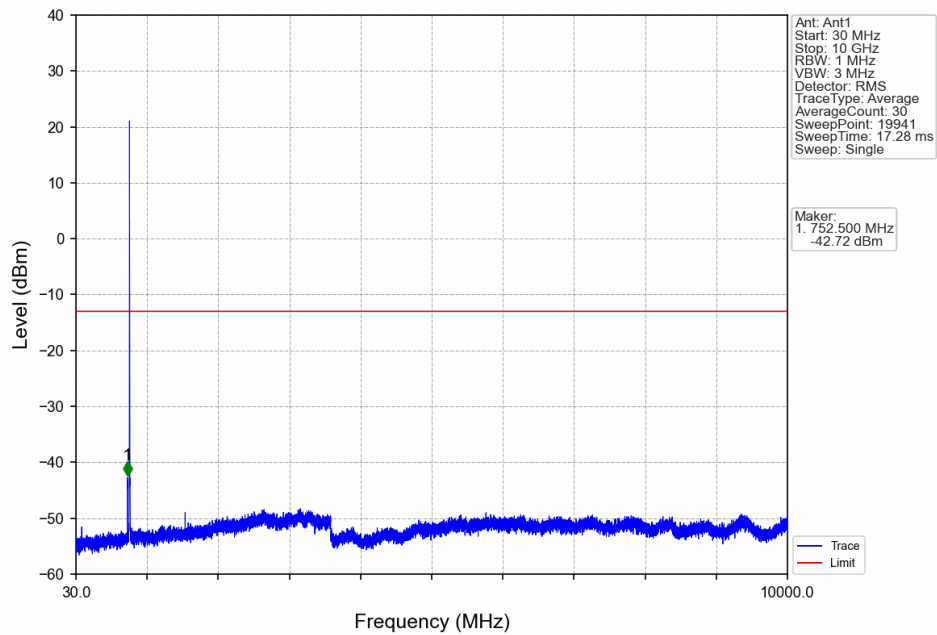


Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV

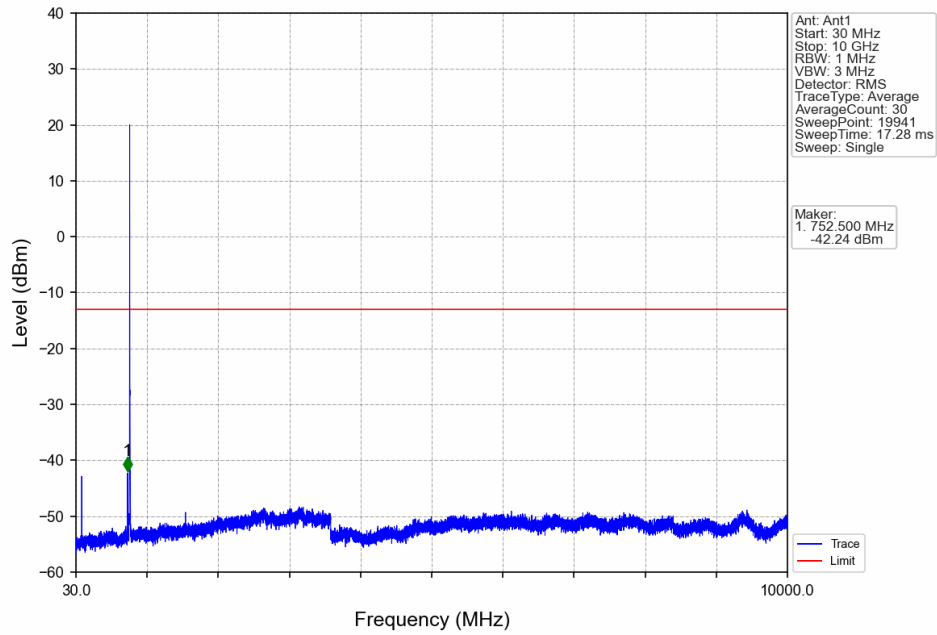


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	5.23	1	761.450	-61.28	-13	Pass
763	775	0.03	0	2	774.987	-43.87	-35	Pass
763	775	0.00625	-6.81	2	774.987	-50.68	-35	Pass
775	776.9	0.1	5.23	3	776.887	-28.42	-13	Pass
776.9	777	0.03	0	4	776.993	-28.21	-13	Pass
777	784.5	0.03	0	/	/	/	/	/

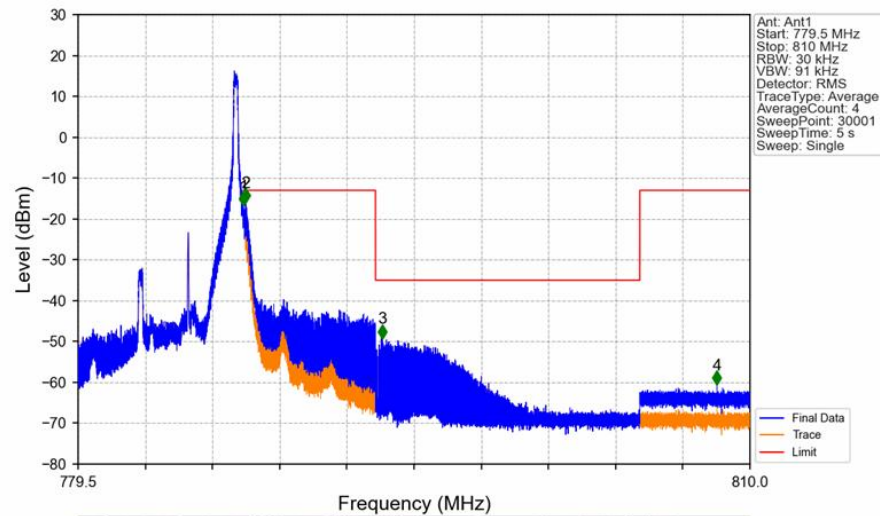
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV

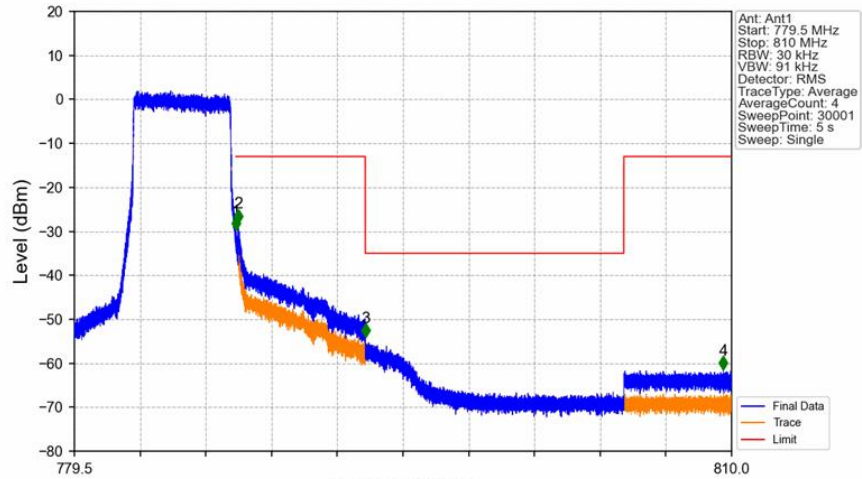


Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



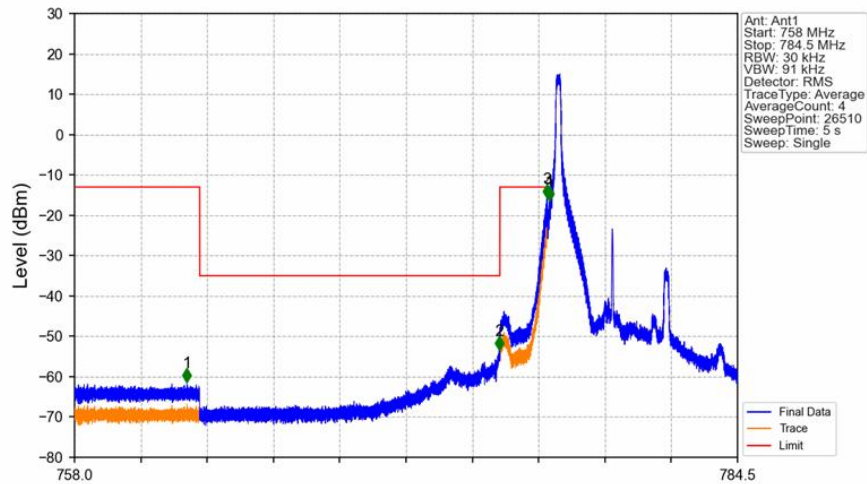
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	0	/	/	/	/	/
787	787.1	0.03	0	1	787.013	-16.84	-13	Pass
787.1	793	0.1	5.23	2	787.105	-15.96	-13	Pass
793	805	0.03	0	3	793.309	-49.25	-35	Pass
793	805	0.00625	-6.81	3	793.309	-56.06	-35	Pass
805	810	0.1	5.23	4	808.503	-60.67	-13	Pass

Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



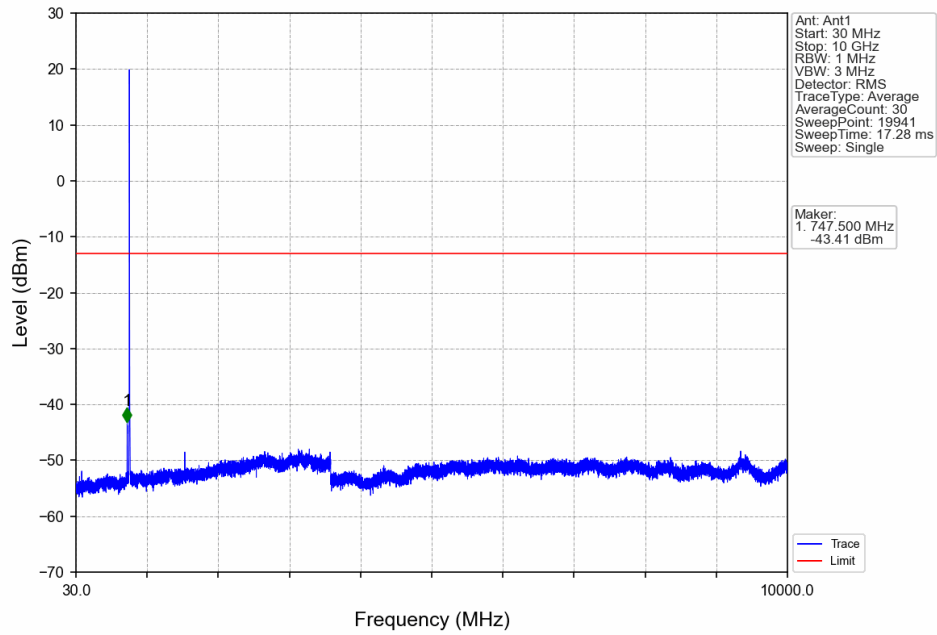
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	0	/	/	/	/	/
787	787.1	0.03	0	1	787.001	-29.77	-13	Pass
787.1	793	0.1	5.23	2	787.104	-28.08	-13	Pass
793	805	0.03	0	3	793.005	-54.03	-35	Pass
793	805	0.00625	-6.81	3	793.005	-60.83	-35	Pass
805	810	0.1	5.23	4	809.619	-61.51	-13	Pass

Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV

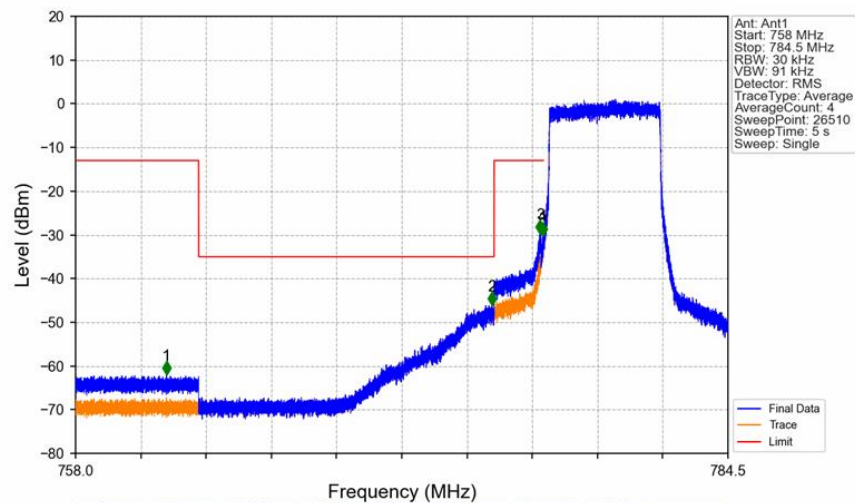


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	5.23	1	762.494	-61.42	-13	Pass
763	775	0.03	0	2	774.973	-53.40	-35	Pass
763	775	0.00625	-6.81	2	774.973	-60.21	-35	Pass
775	776.9	0.1	5.23	3	776.897	-15.73	-13	Pass
776.9	777	0.03	0	4	776.976	-16.43	-13	Pass
777	784.5	0.03	0	/	/	/	/	/

Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV

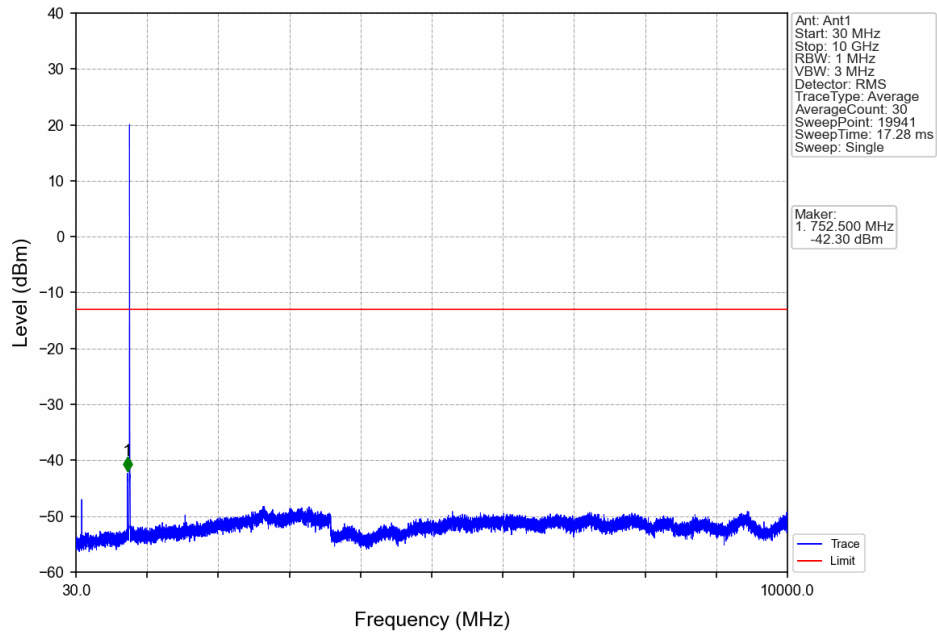


Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV

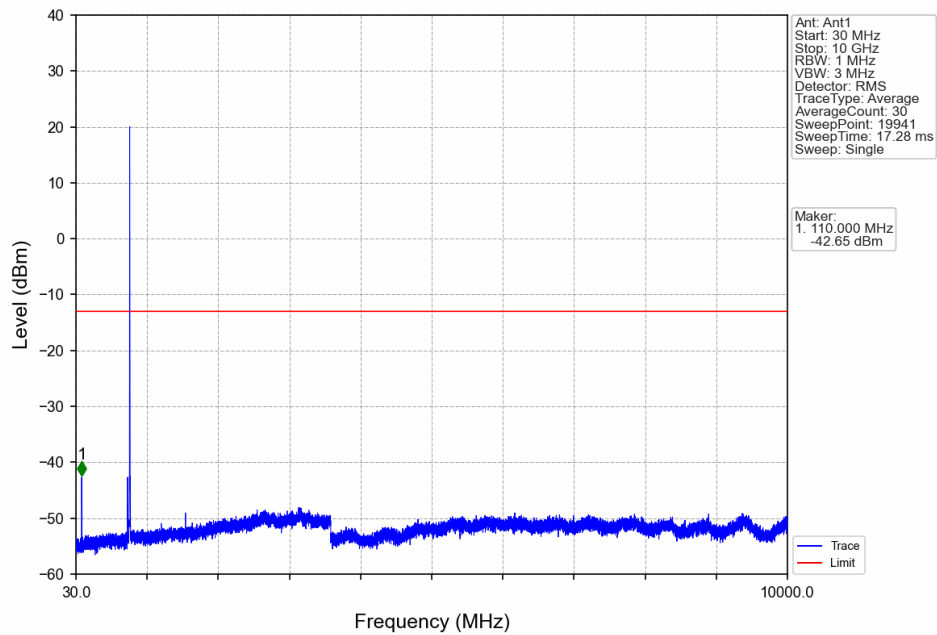


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	5.23	1	761.691	-62.02	-13	Pass
763	775	0.03	0	2	774.913	-46.12	-35	Pass
763	775	0.00625	-6.81	2	774.913	-52.93	-35	Pass
775	776.9	0.1	5.23	3	776.873	-29.72	-13	Pass
776.9	777	0.03	0	4	776.979	-30.19	-13	Pass
777	784.5	0.03	0	/	/	/	/	/

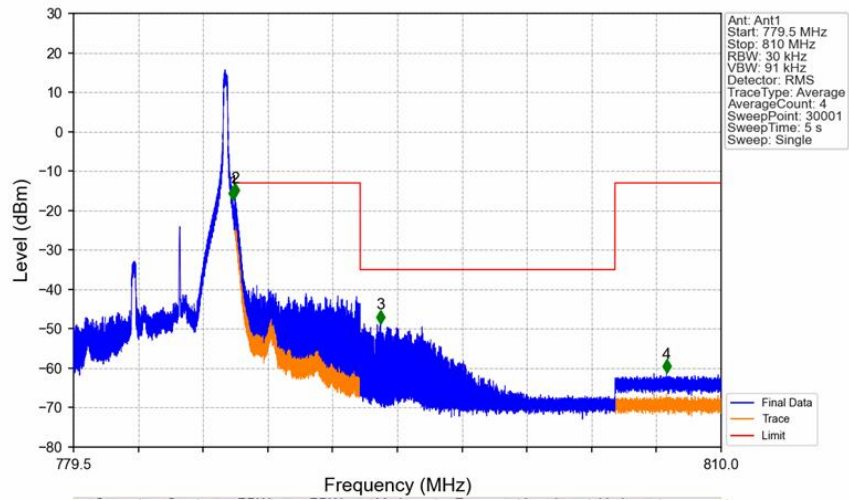
Band13_5MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV

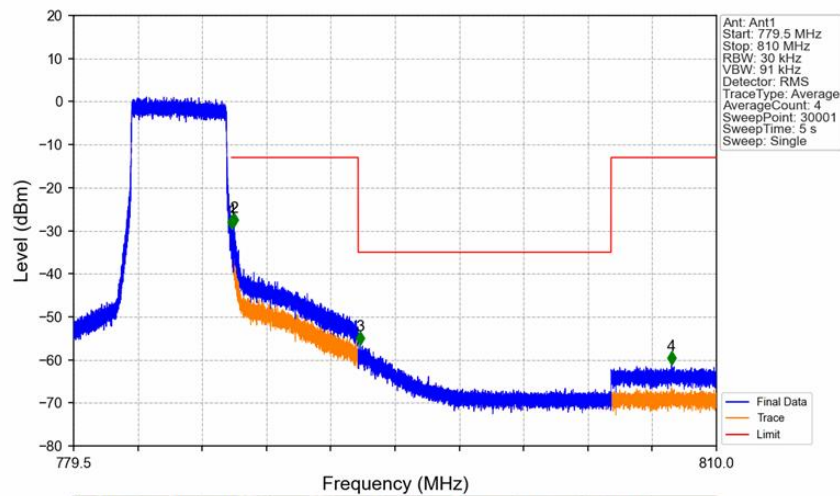


Band13 5MHz 16QAM HCH 784.5MHz RB_1 24 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	0	/	/	/	/	/
787	787.1	0.03	0	1	787.007	-17.32	-13	Pass
787.1	793	0.1	5.23	2	787.114	-16.57	-13	Pass
793	805	0.03	0	3	793.957	-48.68	-35	Pass
793	805	0.00625	-6.81	3	793.957	-55.49	-35	Pass
805	810	0.1	5.23	4	807.425	-61.25	-13	Pass

Band13 5MHz 16QAM HCH 784.5MHz RB_25 0 NTNV



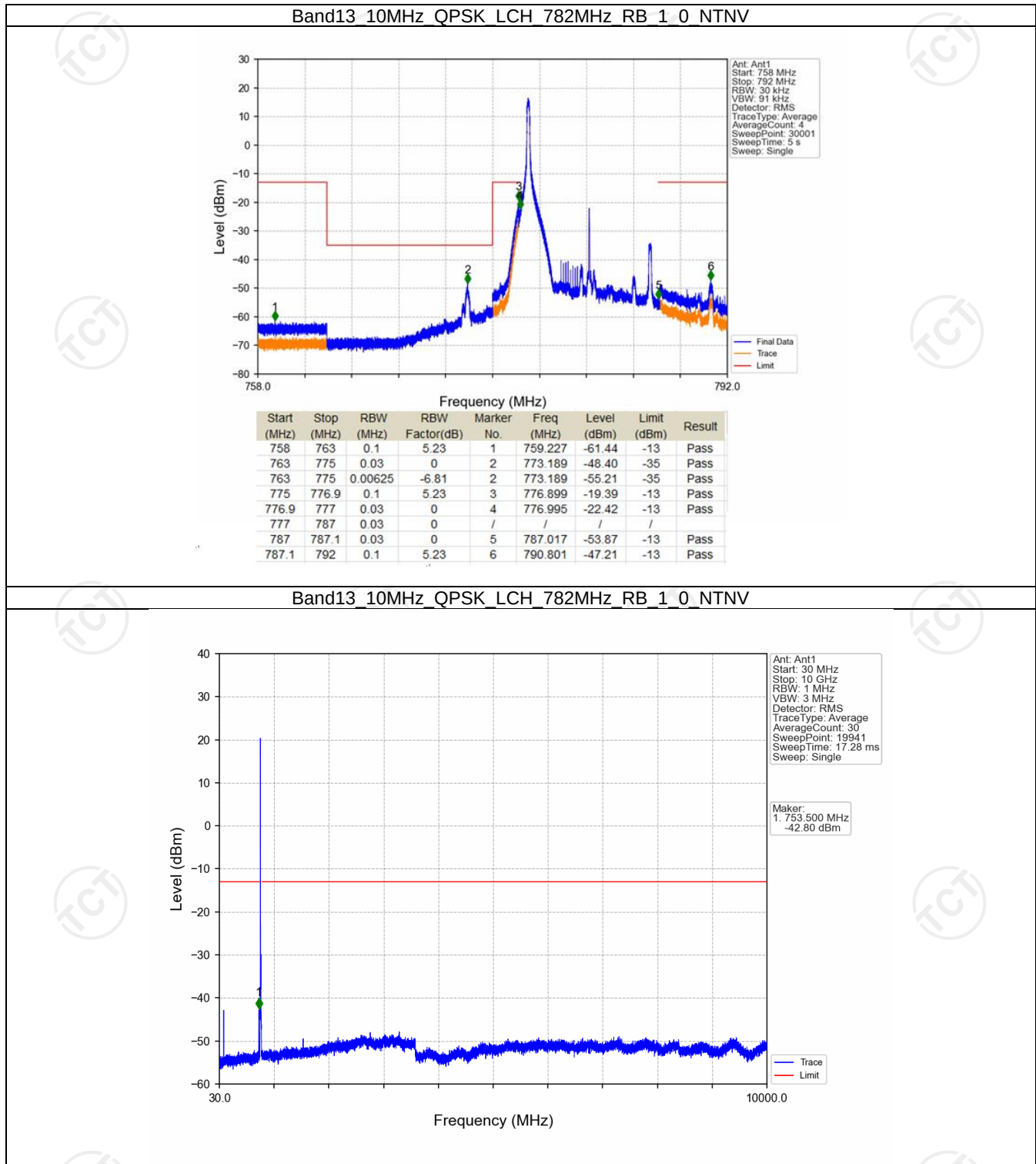
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	0	/	/	/	/	/
787	787.1	0.03	0	1	787.013	-29.62	-13	Pass
787.1	793	0.1	5.23	2	787.111	-29.02	-13	Pass
793	805	0.03	0	3	793.089	-56.49	-35	Pass
793	805	0.00625	-6.81	3	793.089	-63.30	-35	Pass
805	810	0.1	5.23	4	807.872	-61.20	-13	Pass

6.2 B13_10MHz

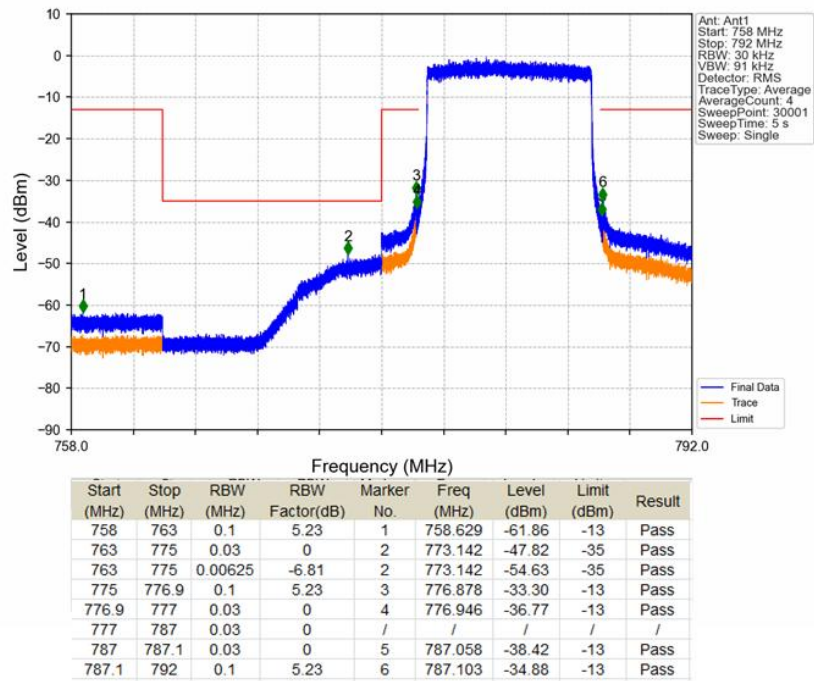
6.2.1 Test Result

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	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
		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	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

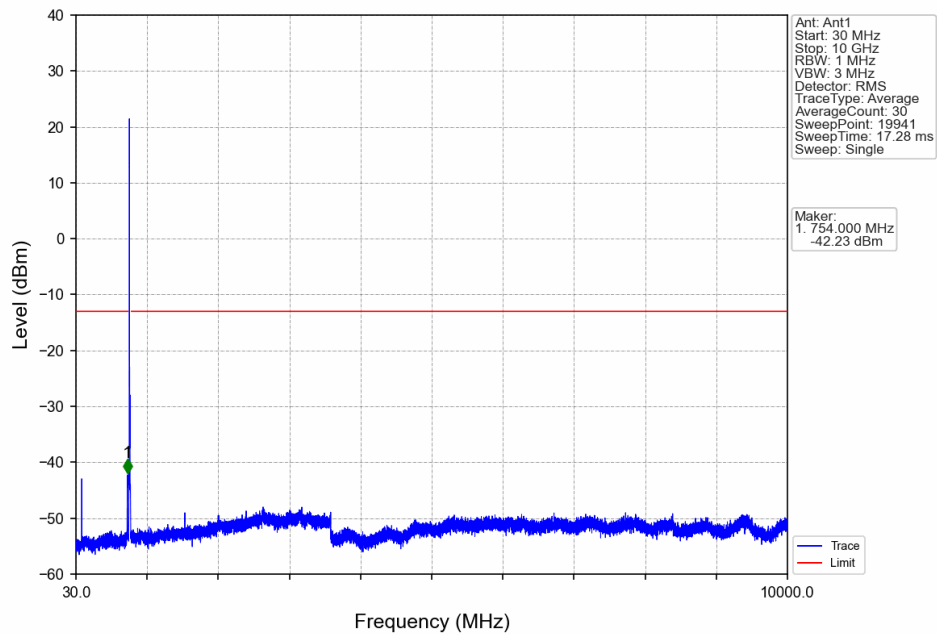
6.2.2 Test Graph



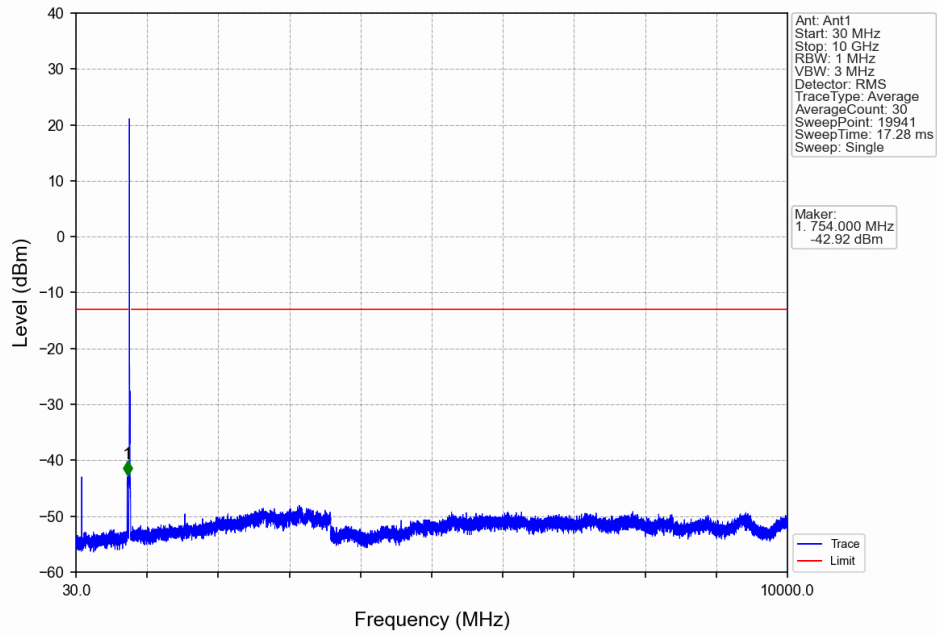
Band13 10MHz QPSK LCH 782MHz RB 50 0 NTNV



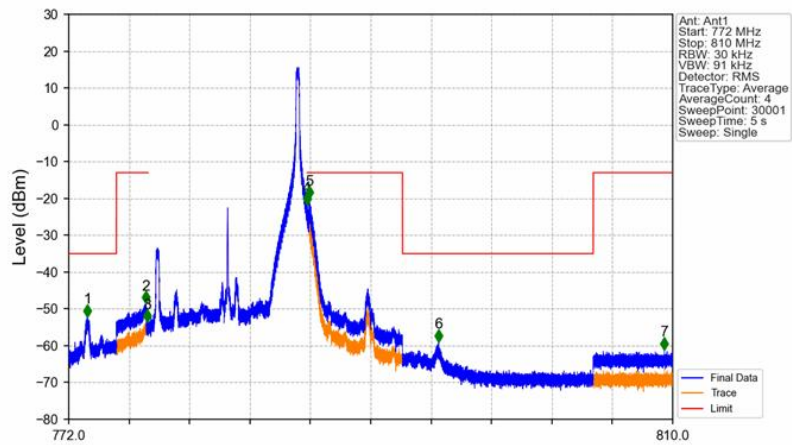
Band13 10MHz QPSK MCH 782MHz RB 1 0 NTNV



Band13_10MHz_QPSK_HCH_782MHz_RB_1_0_NTNV

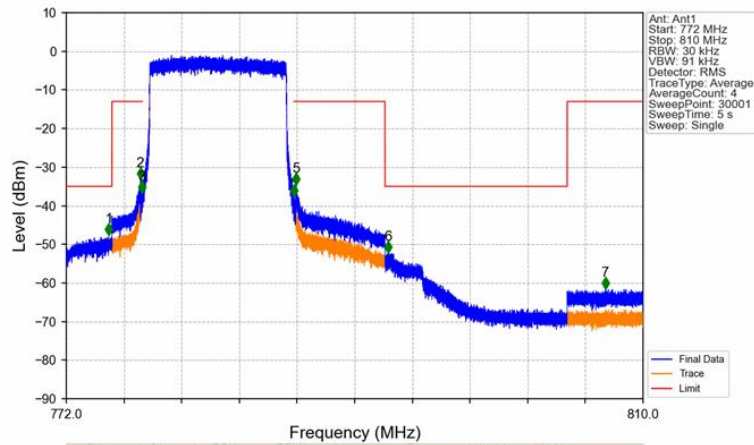


Band13_10MHz_QPSK_HCH_782MHz_RB_1_49_NTNV



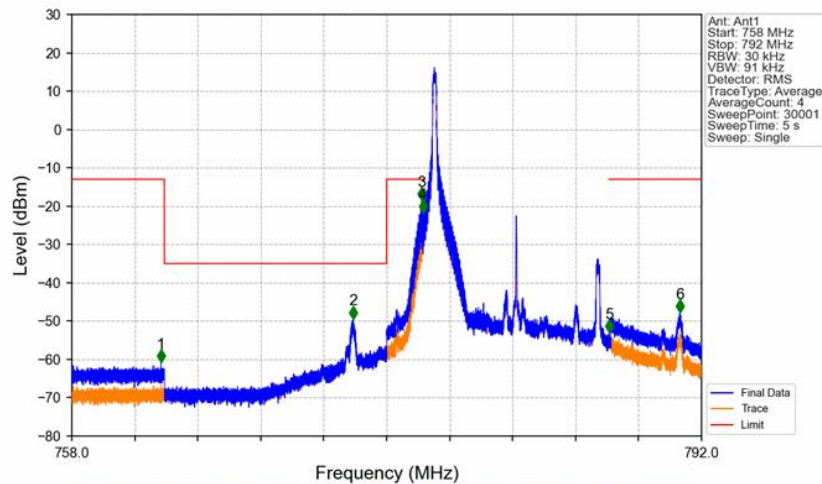
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.03	0	1	773.175	-52.16	-35	Pass
775	776.9	0.1	5.23	2	776.873	-48.60	-13	Pass
776.9	777	0.03	0	3	776.955	-53.63	-13	Pass
777	787	0.03	0	/	/	/	/	/
787	787.1	0.03	0	4	787.005	-21.77	-13	Pass
787.1	793	0.1	5.23	5	787.146	-20.14	-13	Pass
793	805	0.03	0	6	795.278	-58.97	-35	Pass
793	805	0.00625	-6.81	6	795.278	-65.78	-35	Pass
805	810	0.1	5.23	7	809.483	-61.11	-13	Pass

Band13 10MHz QPSK HCH 782MHz RB 50 0 NTN



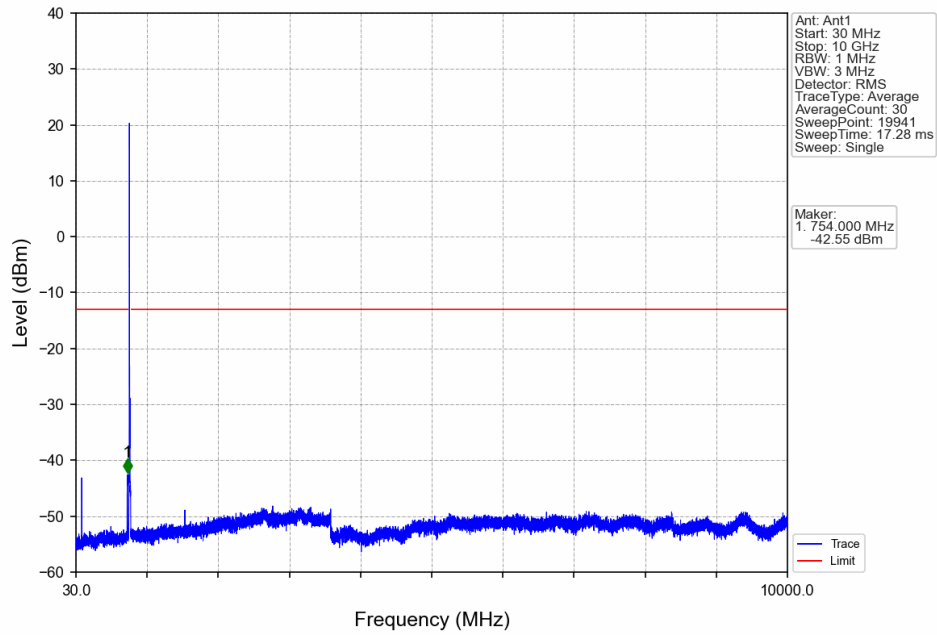
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.03	0	1	774.804	-47.72	-35	Pass
775	776.9	0.1	5.23	2	776.877	-33.24	-13	Pass
776.9	777	0.03	0	3	776.987	-36.74	-13	Pass
777	787	0.03	0	/	/	/	/	/
787	787.1	0.03	0	4	787.013	-37.68	-13	Pass
787.1	793	0.1	5.23	5	787.127	-34.61	-13	Pass
793	805	0.03	0	6	793.205	-52.26	-35	Pass
793	805	0.00625	-6.81	6	793.205	-59.07	-35	Pass
805	810	0.1	5.23	7	807.525	-61.67	-13	Pass

Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTN

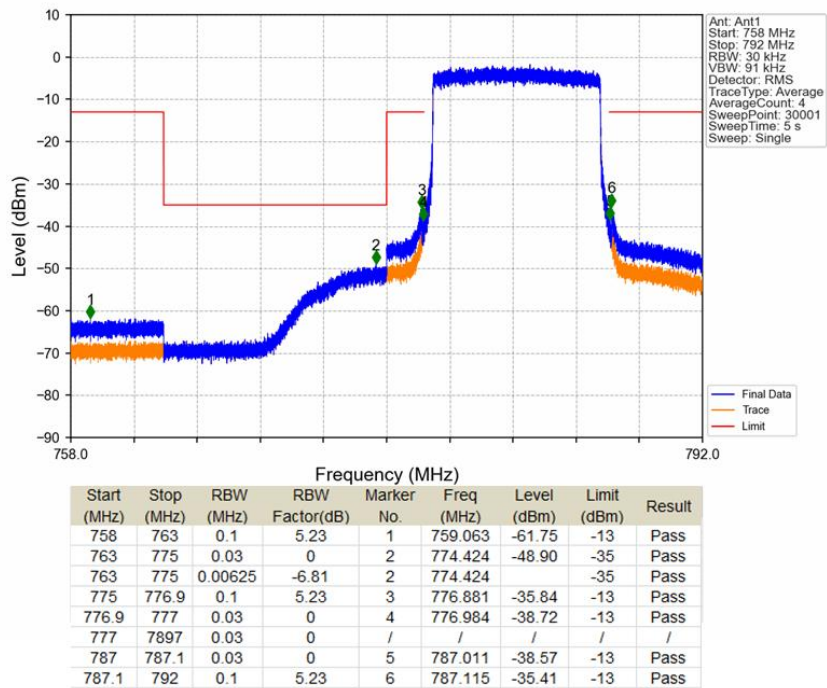


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	5.23	1	762.000	-60.87	-13	Pass
763	775	0.03	0	2	773.198	-49.47	-35	Pass
763	775	0.00625	-6.81	2	773.198	-56.28	-35	Pass
775	776.9	0.1	5.23	3	776.898	-18.47	-13	Pass
776.9	777	0.03	0	4	776.966	-21.84	-13	Pass
777	7897	0.03	0	/	/	/	/	/
787	787.1	0.03	0	5	787.028	-53.06	-13	Pass
787.1	792	0.1	5.23	6	790.853	-47.76	-13	Pass

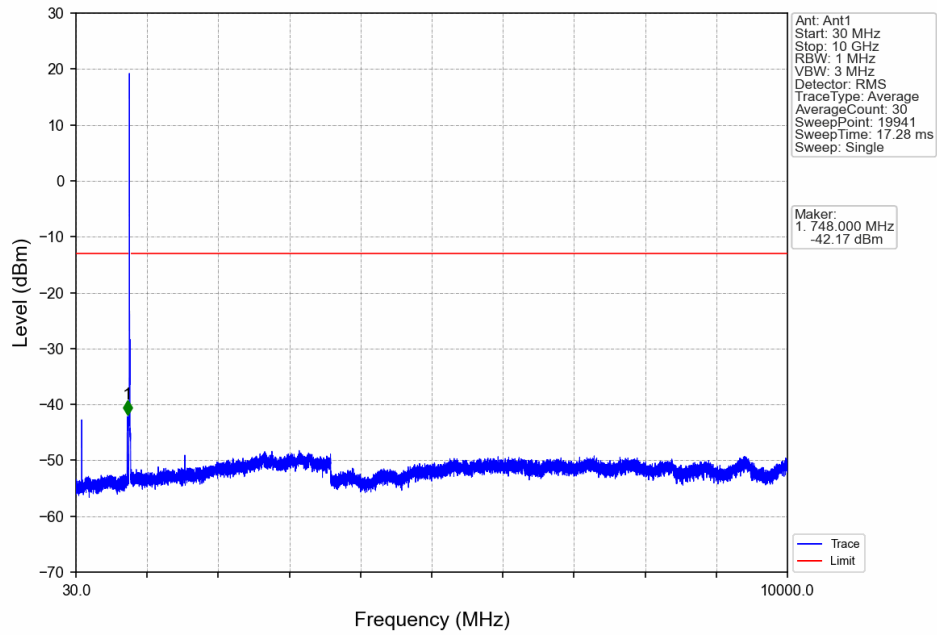
Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV



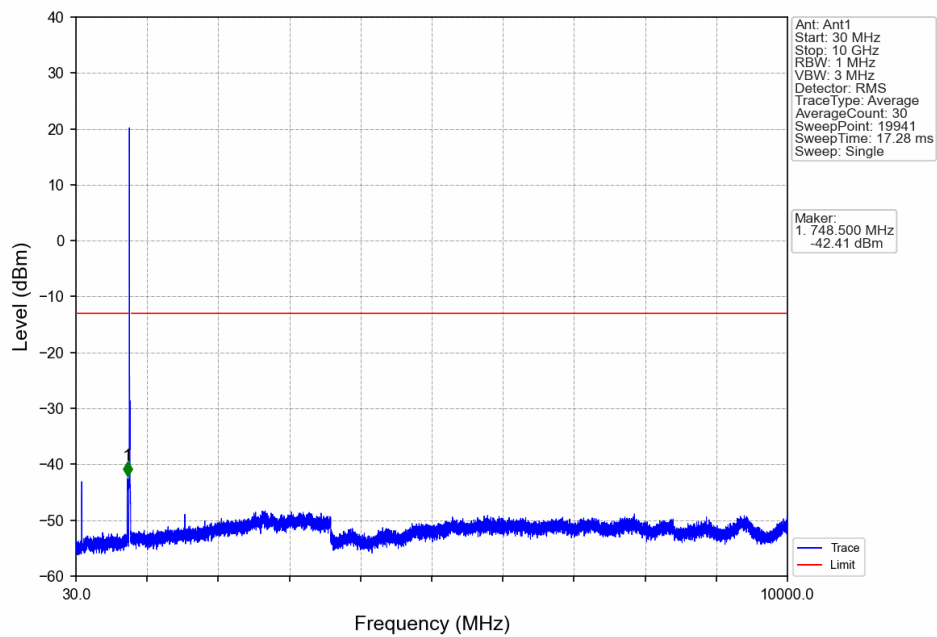
Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV



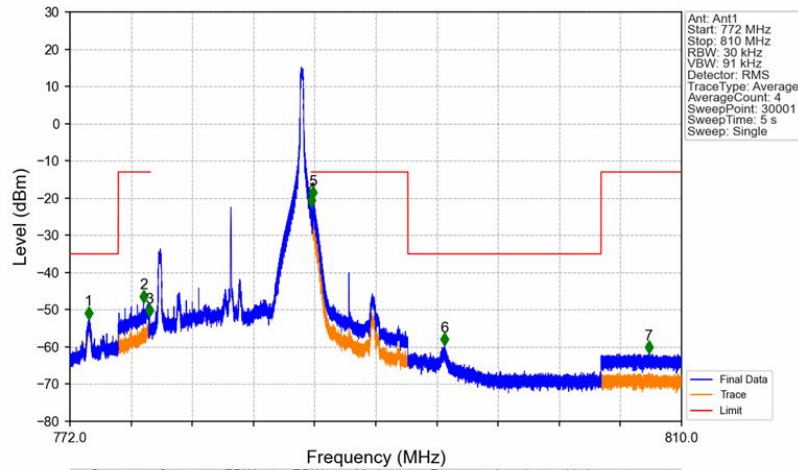
Band13_10MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



Band13_10MHz_16QAM_HCH_782MHz_RB_1_0_NTNV

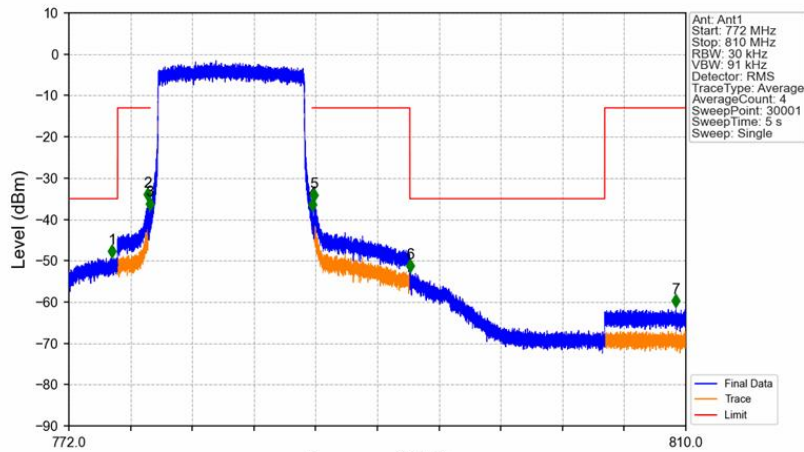


Band13_10MHz_16QAM_HCH_782MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.03	0	1	773.150	-52.56	-35	Pass
775	776.9	0.1	5.23	2	776.570	-48.09	-13	Pass
776.9	777	0.03	0	3	776.950	-51.86	-13	Pass
777	787	0.03	0	/	/	/	/	/
787	787.1	0.03	0	4	787.001	-22.31	-13	Pass
787.1	793	0.1	5.23	5	787.102	-20.22	-13	Pass
793	805	0.03	0	6	795.272	-59.61	-35	Pass
793	805	0.00625	-6.81	6	795.272	-66.42	-35	Pass
805	810	0.1	5.23	7	807.967	-61.74	-13	Pass

Band13_10MHz_16QAM_HCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.03	0	1	774.670	-49.25	-35	Pass
775	776.9	0.1	5.23	2	776.856	-35.58	-13	Pass
776.9	777	0.03	0	3	776.997	-37.71	-13	Pass
777	787	0.03	0	/	/	/	/	/
787	787.1	0.03	0	4	787.006	-37.89	-13	Pass
787.1	793	0.1	5.23	5	787.106	-35.70	-13	Pass
793	805	0.03	0	6	793.043	-52.79	-35	Pass
793	805	0.00625	-6.81	6	793.043	-59.60	-35	Pass
805	810	0.1	5.23	7	809.393	-61.29	-13	Pass

7. Form731

7.1 Form731_Power

7.1.1 Test Result

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	0.1396	0.0130	ppm	4M58G7D	27F	21.45
13	5	779.5	784.5	0.1167	0.0129	ppm	4M58W7D	27F	20.67
13	10	782	782	0.1426	0.0130	ppm	9M05G7D	27F	21.54
13	10	782	782	0.1306	0.0143	ppm	9M06W7D	27F	21.16

7.2 Form731_ERP

7.2.1 Test Result

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	0.0851	0.0130	ppm	4M58G7D	27F	19.30
13	5	779.5	784.5	0.0711	0.0129	ppm	4M58W7D	27F	18.52
13	10	782	782	0.0869	0.0130	ppm	9M05G7D	27F	19.39
13	10	782	782	0.0796	0.0143	ppm	9M06W7D	27F	19.01