

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	24.03	-5.97	15.91	<=34.77	Pass
			13	24.12	-5.97	16.00	<=34.77	Pass
			24	24.06	-5.97	15.94	<=34.77	Pass
		12	0	22.97	-5.97	14.85	<=34.77	Pass
			6	23.08	-5.97	14.96	<=34.77	Pass
			13	23.05	-5.97	14.93	<=34.77	Pass
		25	0	23.02	-5.97	14.90	<=34.77	Pass
	782	1	0	24.09	-5.97	15.97	<=34.77	Pass
			13	24.12	-5.97	16.00	<=34.77	Pass
			24	24.02	-5.97	15.90	<=34.77	Pass
		12	0	22.99	-5.97	14.87	<=34.77	Pass
			6	23.00	-5.97	14.88	<=34.77	Pass
			13	23.06	-5.97	14.94	<=34.77	Pass
		25	0	22.99	-5.97	14.87	<=34.77	Pass
	784.5	1	0	24.09	-5.97	15.97	<=34.77	Pass
			13	24.18	-5.97	16.06	<=34.77	Pass
			24	24.14	-5.97	16.02	<=34.77	Pass
		12	0	23.00	-5.97	14.88	<=34.77	Pass
			6	23.05	-5.97	14.93	<=34.77	Pass
			13	23.09	-5.97	14.97	<=34.77	Pass
		25	0	23.03	-5.97	14.91	<=34.77	Pass
16QAM	779.5	1	0	23.25	-5.97	15.13	<=34.77	Pass
			13	23.30	-5.97	15.18	<=34.77	Pass
			24	23.21	-5.97	15.09	<=34.77	Pass
		12	0	21.88	-5.97	13.76	<=34.77	Pass
			6	22.04	-5.97	13.92	<=34.77	Pass
			13	22.00	-5.97	13.88	<=34.77	Pass
		25	0	22.06	-5.97	13.94	<=34.77	Pass
	782	1	0	23.16	-5.97	15.04	<=34.77	Pass
			13	23.31	-5.97	15.19	<=34.77	Pass
			24	23.19	-5.97	15.07	<=34.77	Pass
		12	0	21.96	-5.97	13.84	<=34.77	Pass
			6	22.07	-5.97	13.95	<=34.77	Pass
			13	22.10	-5.97	13.98	<=34.77	Pass
		25	0	22.02	-5.97	13.90	<=34.77	Pass
	784.5	1	0	23.22	-5.97	15.10	<=34.77	Pass
			13	23.30	-5.97	15.18	<=34.77	Pass
			24	23.23	-5.97	15.11	<=34.77	Pass
		12	0	22.00	-5.97	13.88	<=34.77	Pass
			6	22.04	-5.97	13.92	<=34.77	Pass
			13	22.04	-5.97	13.92	<=34.77	Pass
		25	0	22.05	-5.97	13.93	<=34.77	Pass
64QAM	779.5	1	0	22.21	-5.97	14.09	<=34.77	Pass
			13	22.22	-5.97	14.10	<=34.77	Pass
			24	22.16	-5.97	14.04	<=34.77	Pass
		12	0	20.99	-5.97	12.87	<=34.77	Pass
			6	21.07	-5.97	12.95	<=34.77	Pass
			13	21.07	-5.97	12.95	<=34.77	Pass
		25	0	21.06	-5.97	12.94	<=34.77	Pass

	782	1	0	22.26	-5.97	14.14	<=34.77	Pass
			13	22.28	-5.97	14.16	<=34.77	Pass
			24	22.25	-5.97	14.13	<=34.77	Pass
		12	0	21.00	-5.97	12.88	<=34.77	Pass
			6	21.07	-5.97	12.95	<=34.77	Pass
			13	21.11	-5.97	12.99	<=34.77	Pass
		25	0	21.00	-5.97	12.88	<=34.77	Pass
	784.5	1	0	22.13	-5.97	14.01	<=34.77	Pass
			13	22.19	-5.97	14.07	<=34.77	Pass
			24	22.15	-5.97	14.03	<=34.77	Pass
		12	0	21.04	-5.97	12.92	<=34.77	Pass
			6	21.06	-5.97	12.94	<=34.77	Pass
			13	21.11	-5.97	12.99	<=34.77	Pass
		25	0	21.05	-5.97	12.93	<=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	24.04	-5.97	15.92	<=34.77	Pass
			25	24.07	-5.97	15.95	<=34.77	Pass
			49	24.03	-5.97	15.91	<=34.77	Pass
		25	0	23.01	-5.97	14.89	<=34.77	Pass
			13	23.02	-5.97	14.90	<=34.77	Pass
			25	23.05	-5.97	14.93	<=34.77	Pass
		50	0	22.97	-5.97	14.85	<=34.77	Pass
16QAM	782	1	0	23.19	-5.97	15.07	<=34.77	Pass
			25	23.26	-5.97	15.14	<=34.77	Pass
			49	23.23	-5.97	15.11	<=34.77	Pass
		25	0	22.02	-5.97	13.90	<=34.77	Pass
			13	22.02	-5.97	13.90	<=34.77	Pass
			25	22.06	-5.97	13.94	<=34.77	Pass
		50	0	21.98	-5.97	13.86	<=34.77	Pass
64QAM	782	1	0	22.19	-5.97	14.07	<=34.77	Pass
			25	22.24	-5.97	14.12	<=34.77	Pass
			49	22.16	-5.97	14.04	<=34.77	Pass
		25	0	21.01	-5.97	12.89	<=34.77	Pass
			13	21.01	-5.97	12.89	<=34.77	Pass
			25	21.08	-5.97	12.96	<=34.77	Pass
		50	0	21.00	-5.97	12.88	<=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	3.6	0.261	0.0003	-2.5 to 2.5	Pass
					3.92	2.303	0.0030	-2.5 to 2.5	Pass
					4.53	0.509	0.0007	-2.5 to 2.5	Pass
				-30	3.92	0.768	0.0010	-2.5 to 2.5	Pass
				-20	3.92	0.661	0.0008	-2.5 to 2.5	Pass
				-10	3.92	0.778	0.0010	-2.5 to 2.5	Pass
				0	3.92	0.352	0.0005	-2.5 to 2.5	Pass
				10	3.92	1.344	0.0017	-2.5 to 2.5	Pass
				30	3.92	0.698	0.0009	-2.5 to 2.5	Pass
				40	3.92	1.515	0.0019	-2.5 to 2.5	Pass
				50	3.92	2.052	0.0026	-2.5 to 2.5	Pass
	782	25	0	20	3.6	2.701	0.0035	-2.5 to 2.5	Pass
					3.92	3.921	0.0050	-2.5 to 2.5	Pass
					4.53	2.883	0.0037	-2.5 to 2.5	Pass
				-30	3.92	3.041	0.0039	-2.5 to 2.5	Pass
				-20	3.92	2.763	0.0035	-2.5 to 2.5	Pass
				-10	3.92	3.231	0.0041	-2.5 to 2.5	Pass
				0	3.92	1.909	0.0024	-2.5 to 2.5	Pass
				10	3.92	2.926	0.0037	-2.5 to 2.5	Pass
				30	3.92	2.878	0.0037	-2.5 to 2.5	Pass
				40	3.92	3.000	0.0038	-2.5 to 2.5	Pass
				50	3.92	2.908	0.0037	-2.5 to 2.5	Pass
	784.5	25	0	20	3.6	1.485	0.0019	-2.5 to 2.5	Pass
					3.92	3.357	0.0043	-2.5 to 2.5	Pass
					4.53	2.955	0.0038	-2.5 to 2.5	Pass
				-30	3.92	3.105	0.0040	-2.5 to 2.5	Pass
				-20	3.92	2.291	0.0029	-2.5 to 2.5	Pass
				-10	3.92	2.288	0.0029	-2.5 to 2.5	Pass
				0	3.92	0.346	0.0004	-2.5 to 2.5	Pass
				10	3.92	1.682	0.0021	-2.5 to 2.5	Pass
				30	3.92	1.087	0.0014	-2.5 to 2.5	Pass
				40	3.92	1.439	0.0018	-2.5 to 2.5	Pass
16QAM	779.5	25	0	20	3.6	1.678	0.0022	-2.5 to 2.5	Pass
					3.92	-0.440	-0.0006	-2.5 to 2.5	Pass
					4.53	-0.855	-0.0011	-2.5 to 2.5	Pass
				-30	3.92	-1.217	-0.0016	-2.5 to 2.5	Pass
				-20	3.92	0.635	0.0008	-2.5 to 2.5	Pass
				-10	3.92	1.119	0.0014	-2.5 to 2.5	Pass
				0	3.92	0.786	0.0010	-2.5 to 2.5	Pass
				10	3.92	1.643	0.0021	-2.5 to 2.5	Pass
				30	3.92	1.976	0.0025	-2.5 to 2.5	Pass
				40	3.92	1.313	0.0017	-2.5 to 2.5	Pass
				50	3.92	1.346	0.0017	-2.5 to 2.5	Pass
	782	25	0	20	3.6	2.989	0.0038	-2.5 to 2.5	Pass
					3.92	1.002	0.0013	-2.5 to 2.5	Pass
					4.53	2.037	0.0026	-2.5 to 2.5	Pass

				-30	3.92	1.801	0.0023	-2.5 to 2.5	Pass
				-20	3.92	1.439	0.0018	-2.5 to 2.5	Pass
				-10	3.92	1.637	0.0021	-2.5 to 2.5	Pass
				0	3.92	1.457	0.0019	-2.5 to 2.5	Pass
				10	3.92	0.936	0.0012	-2.5 to 2.5	Pass
				30	3.92	0.476	0.0006	-2.5 to 2.5	Pass
				40	3.92	0.849	0.0011	-2.5 to 2.5	Pass
				50	3.92	0.974	0.0012	-2.5 to 2.5	Pass
	784.5	25	0	20	3.6	1.947	0.0025	-2.5 to 2.5	Pass
					3.92	0.916	0.0012	-2.5 to 2.5	Pass
					4.53	0.814	0.0010	-2.5 to 2.5	Pass
				-30	3.92	0.851	0.0011	-2.5 to 2.5	Pass
				-20	3.92	1.755	0.0022	-2.5 to 2.5	Pass
				-10	3.92	0.254	0.0003	-2.5 to 2.5	Pass
				0	3.92	-0.021	0.0000	-2.5 to 2.5	Pass
				10	3.92	1.683	0.0021	-2.5 to 2.5	Pass
				30	3.92	0.545	0.0007	-2.5 to 2.5	Pass
				40	3.92	1.118	0.0014	-2.5 to 2.5	Pass
				50	3.92	-0.181	-0.0002	-2.5 to 2.5	Pass
64QAM	779.5	25	0	20	3.6	1.445	0.0019	-2.5 to 2.5	Pass
					3.92	1.806	0.0023	-2.5 to 2.5	Pass
					4.53	0.580	0.0007	-2.5 to 2.5	Pass
				-30	3.92	1.395	0.0018	-2.5 to 2.5	Pass
				-20	3.92	0.689	0.0009	-2.5 to 2.5	Pass
				-10	3.92	-0.062	-0.0001	-2.5 to 2.5	Pass
				0	3.92	1.142	0.0015	-2.5 to 2.5	Pass
				10	3.92	0.126	0.0002	-2.5 to 2.5	Pass
				30	3.92	0.427	0.0005	-2.5 to 2.5	Pass
				40	3.92	0.107	0.0001	-2.5 to 2.5	Pass
				50	3.92	0.400	0.0005	-2.5 to 2.5	Pass
	782	25	0	20	3.6	1.455	0.0019	-2.5 to 2.5	Pass
					3.92	-0.219	-0.0003	-2.5 to 2.5	Pass
					4.53	1.172	0.0015	-2.5 to 2.5	Pass
				-30	3.92	-1.215	-0.0016	-2.5 to 2.5	Pass
				-20	3.92	-0.920	-0.0012	-2.5 to 2.5	Pass
				-10	3.92	-0.553	-0.0007	-2.5 to 2.5	Pass
				0	3.92	1.112	0.0014	-2.5 to 2.5	Pass
				10	3.92	1.233	0.0016	-2.5 to 2.5	Pass
				30	3.92	1.793	0.0023	-2.5 to 2.5	Pass
				40	3.92	0.205	0.0003	-2.5 to 2.5	Pass
				50	3.92	2.017	0.0026	-2.5 to 2.5	Pass
	784.5	25	0	20	3.6	0.040	0.0001	-2.5 to 2.5	Pass
					3.92	-0.179	-0.0002	-2.5 to 2.5	Pass
					4.53	-0.585	-0.0007	-2.5 to 2.5	Pass
				-30	3.92	0.331	0.0004	-2.5 to 2.5	Pass
				-20	3.92	1.733	0.0022	-2.5 to 2.5	Pass
				-10	3.92	1.262	0.0016	-2.5 to 2.5	Pass
				0	3.92	-1.632	-0.0021	-2.5 to 2.5	Pass
				10	3.92	1.391	0.0018	-2.5 to 2.5	Pass
				30	3.92	0.721	0.0009	-2.5 to 2.5	Pass
				40	3.92	0.029	0.0000	-2.5 to 2.5	Pass
				50	3.92	1.059	0.0013	-2.5 to 2.5	Pass

2.1.2 B13_10MHz

Band: 13 / Bandwidth: 10MHz							
Modulation	Frequency	RB Allocation	Temp.	Voltage	Freq. Error	Freq. vs. Rated (ppm)	Verdict

	(MHz)	Size	Offset	(°C)	(VDC)	(Hz)	Result	Limit	
QPSK	782	50	0	20	3.6	1.240	0.0016	-2.5 to 2.5	Pass
					3.92	1.569	0.0020	-2.5 to 2.5	Pass
					4.53	-0.610	-0.0008	-2.5 to 2.5	Pass
				-30	3.92	0.237	0.0003	-2.5 to 2.5	Pass
				-20	3.92	0.558	0.0007	-2.5 to 2.5	Pass
				-10	3.92	-0.357	-0.0005	-2.5 to 2.5	Pass
				0	3.92	0.385	0.0005	-2.5 to 2.5	Pass
				10	3.92	1.127	0.0014	-2.5 to 2.5	Pass
				30	3.92	-0.457	-0.0006	-2.5 to 2.5	Pass
				40	3.92	0.578	0.0007	-2.5 to 2.5	Pass
16QAM	782	50	0	20	3.6	0.963	0.0012	-2.5 to 2.5	Pass
					3.92	2.288	0.0029	-2.5 to 2.5	Pass
					4.53	2.045	0.0026	-2.5 to 2.5	Pass
				-30	3.92	0.974	0.0012	-2.5 to 2.5	Pass
				-20	3.92	-0.938	-0.0012	-2.5 to 2.5	Pass
				-10	3.92	0.827	0.0011	-2.5 to 2.5	Pass
				0	3.92	1.192	0.0015	-2.5 to 2.5	Pass
				10	3.92	1.448	0.0019	-2.5 to 2.5	Pass
				30	3.92	2.823	0.0036	-2.5 to 2.5	Pass
				40	3.92	2.710	0.0035	-2.5 to 2.5	Pass
64QAM	782	50	0	20	3.6	0.929	0.0012	-2.5 to 2.5	Pass
					3.92	2.502	0.0032	-2.5 to 2.5	Pass
					4.53	0.351	0.0004	-2.5 to 2.5	Pass
				-30	3.92	1.401	0.0018	-2.5 to 2.5	Pass
				-20	3.92	0.844	0.0011	-2.5 to 2.5	Pass
				-10	3.92	0.472	0.0006	-2.5 to 2.5	Pass
				0	3.92	0.806	0.0010	-2.5 to 2.5	Pass
				10	3.92	0.935	0.0012	-2.5 to 2.5	Pass
				30	3.92	1.271	0.0016	-2.5 to 2.5	Pass
				40	3.92	-0.265	-0.0003	-2.5 to 2.5	Pass
				50	3.92	0.957	0.0012	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band13_OBW

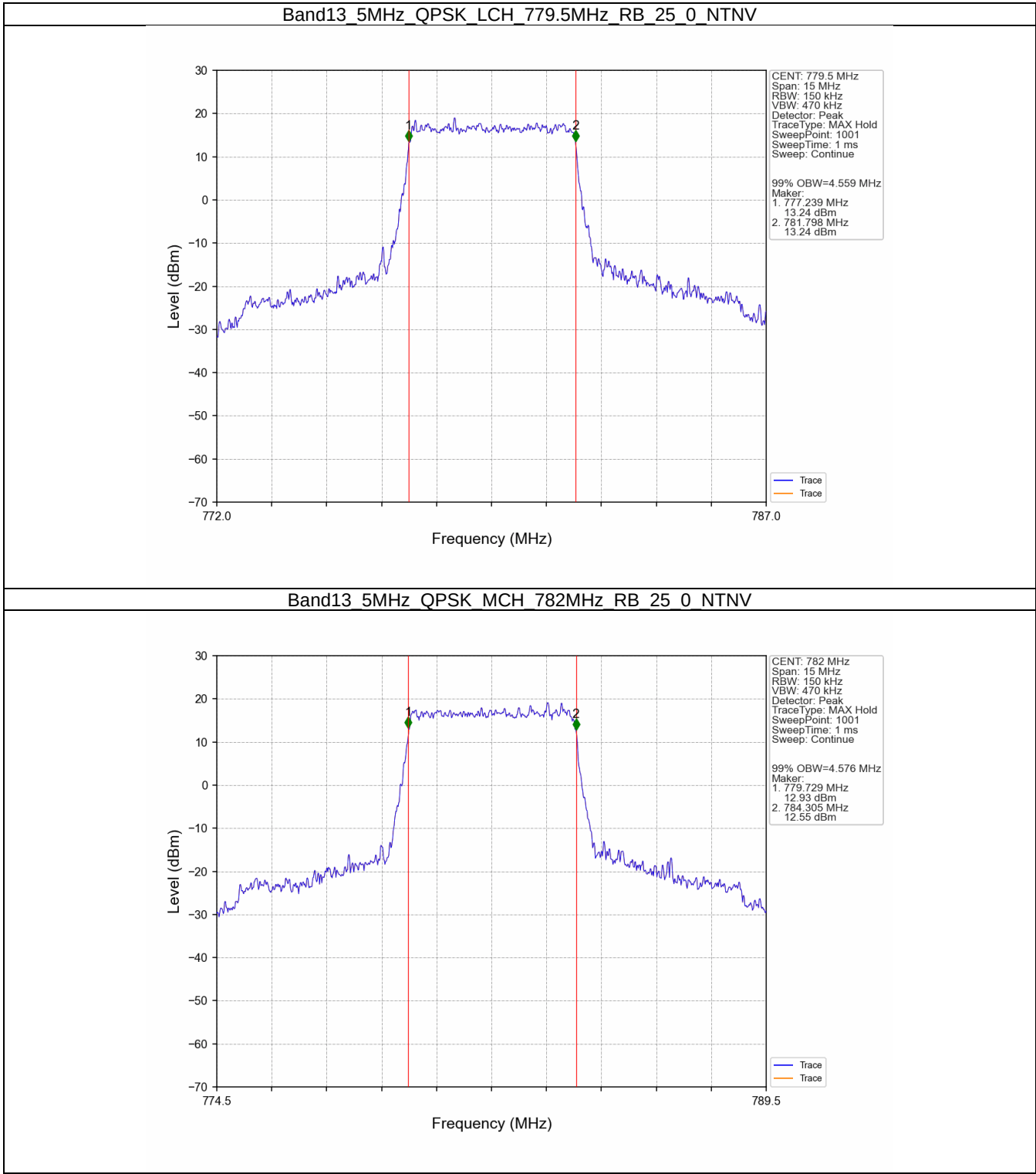
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	4.559	/	Pass
		782	25	0	4.576	/	Pass
		784.5	25	0	4.551	/	Pass
	16QAM	779.5	25	0	4.586	/	Pass
		782	25	0	4.577	/	Pass
		784.5	25	0	4.581	/	Pass
	64QAM	779.5	25	0	4.573	/	Pass
		782	25	0	4.562	/	Pass
		784.5	25	0	4.575	/	Pass
10	QPSK	782	50	0	9.059	/	Pass
	16QAM	782	50	0	9.063	/	Pass
	64QAM	782	50	0	9.063	/	Pass

3.1.2 Band13_XDB

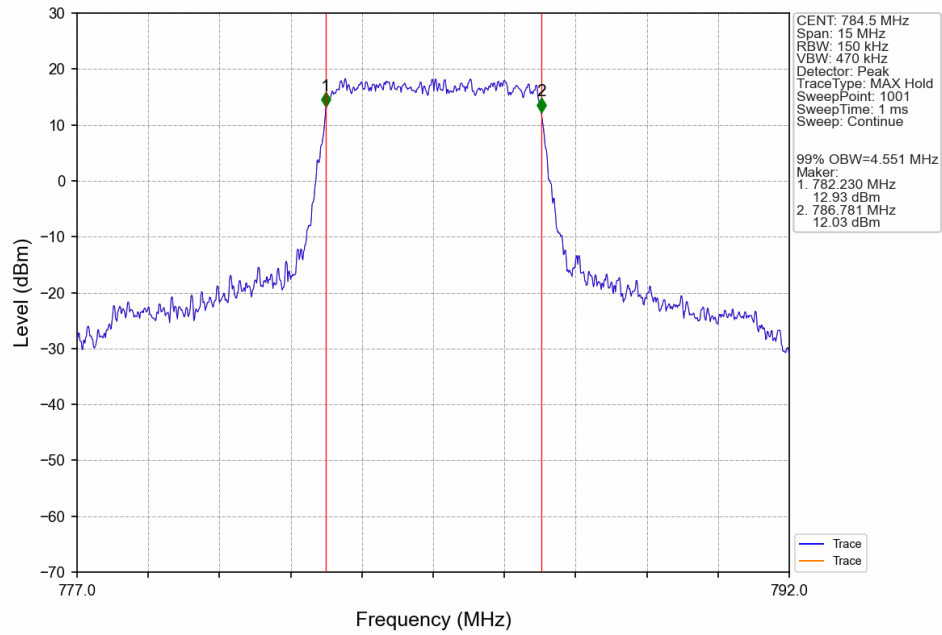
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	5.252	/	Pass
		782	25	0	5.247	/	Pass
		784.5	25	0	5.170	/	Pass
	16QAM	779.5	25	0	5.248	/	Pass
		782	25	0	5.264	/	Pass
		784.5	25	0	5.235	/	Pass
	64QAM	779.5	25	0	5.272	/	Pass
		782	25	0	5.194	/	Pass
		784.5	25	0	5.261	/	Pass
10	QPSK	782	50	0	10.144	/	Pass
	16QAM	782	50	0	10.155	/	Pass
	64QAM	782	50	0	10.082	/	Pass

3.2 Test Graph

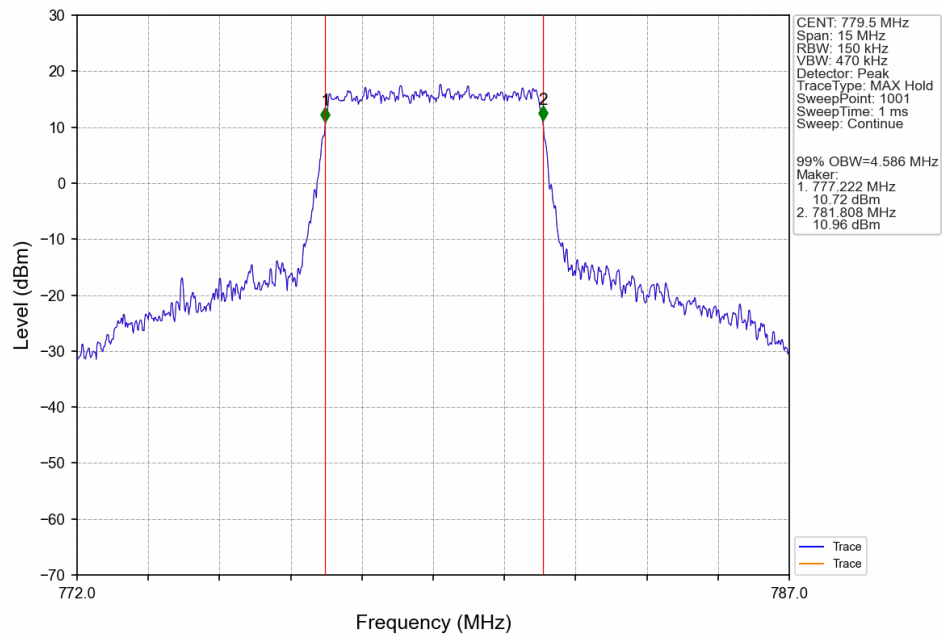
3.2.1 Band13_OBW



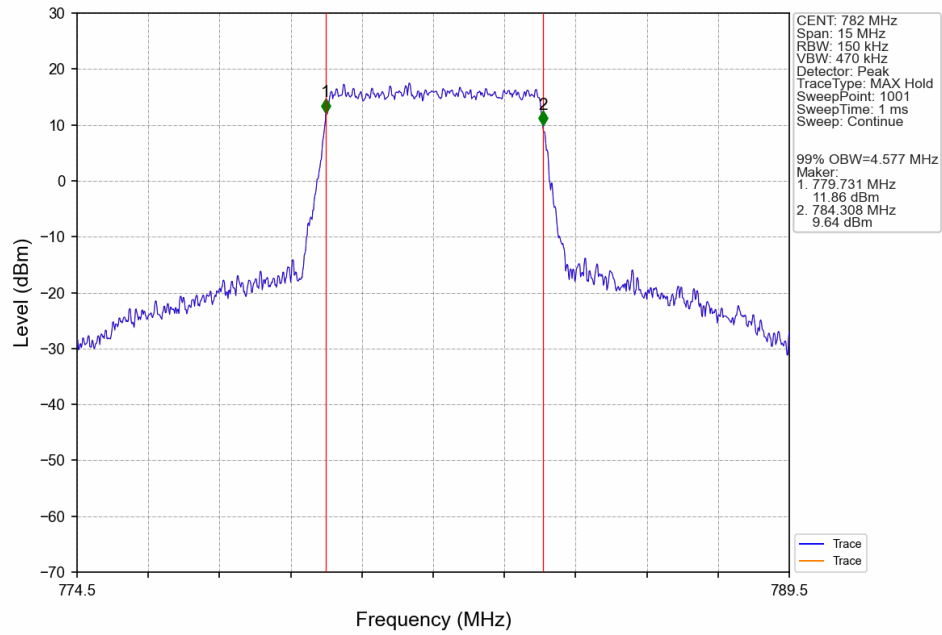
Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTNV



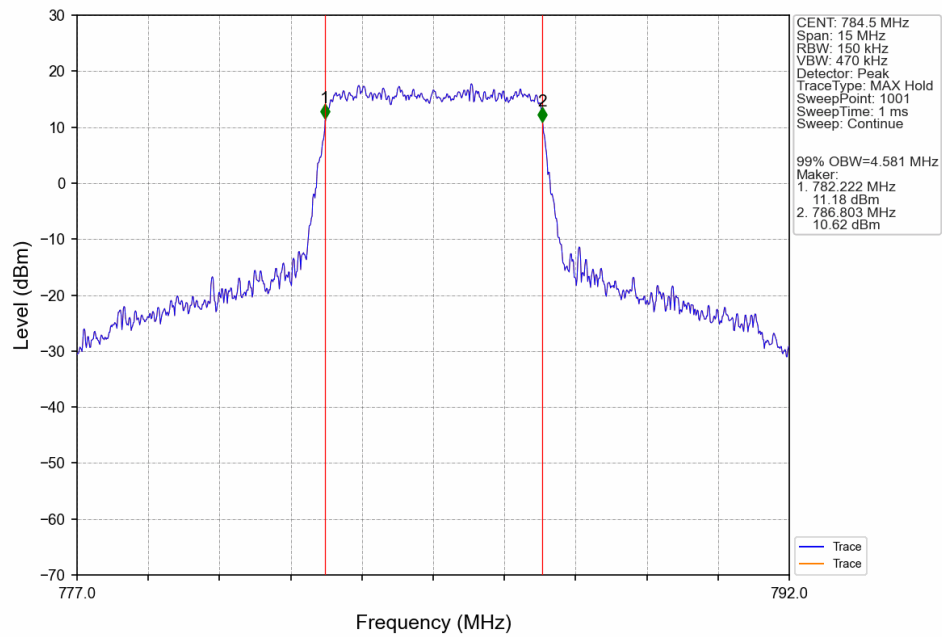
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



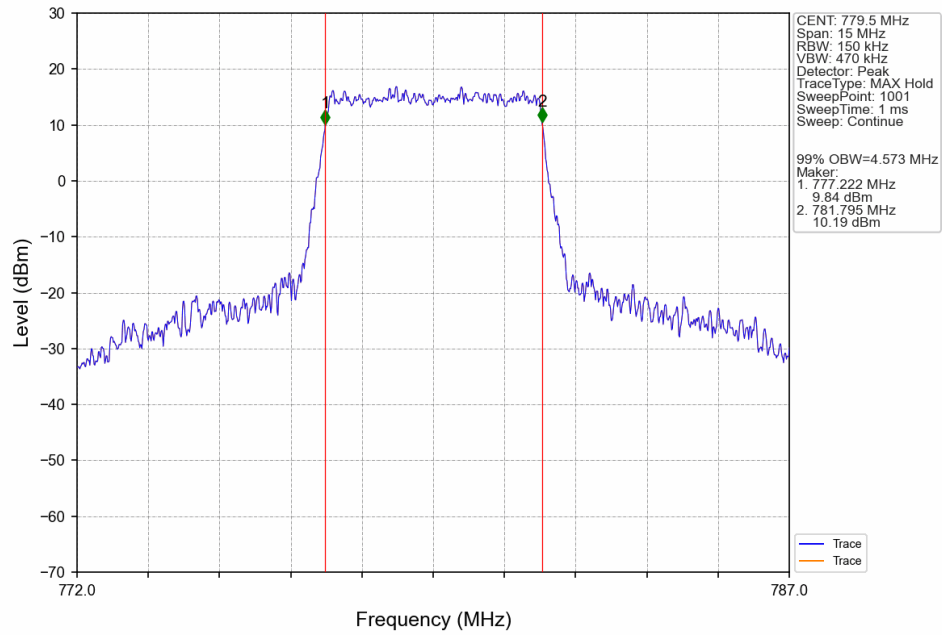
Band13 5MHz 16QAM MCH 782MHz RB 25 0 NTNV



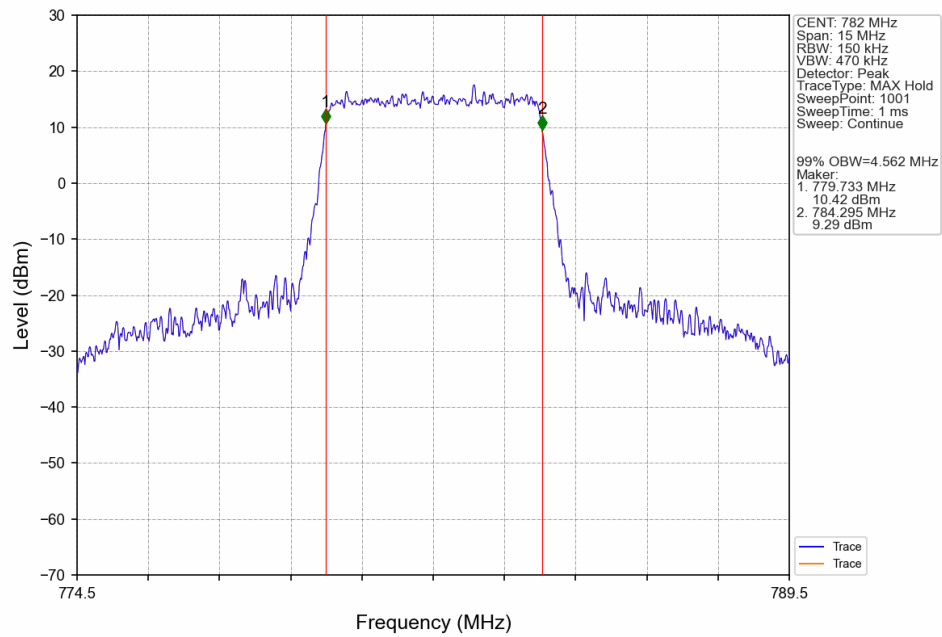
Band13 5MHz 16QAM HCH 784.5MHz RB 25 0 NTNV



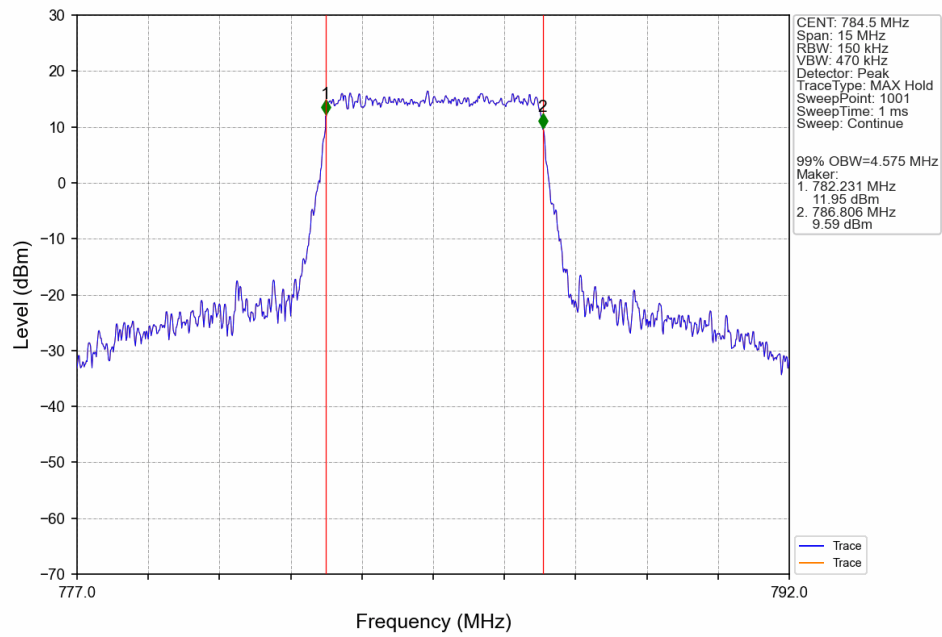
Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



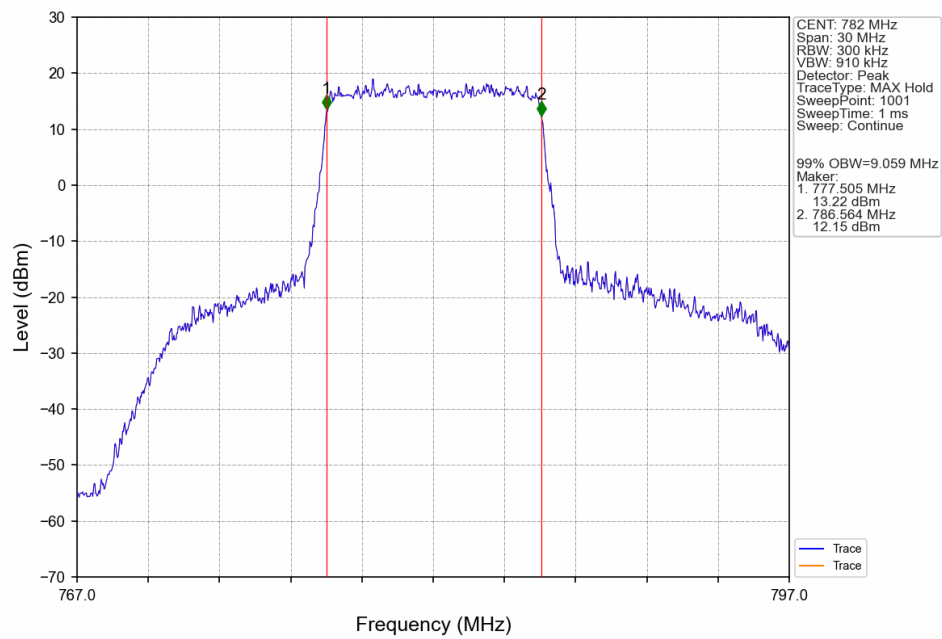
Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



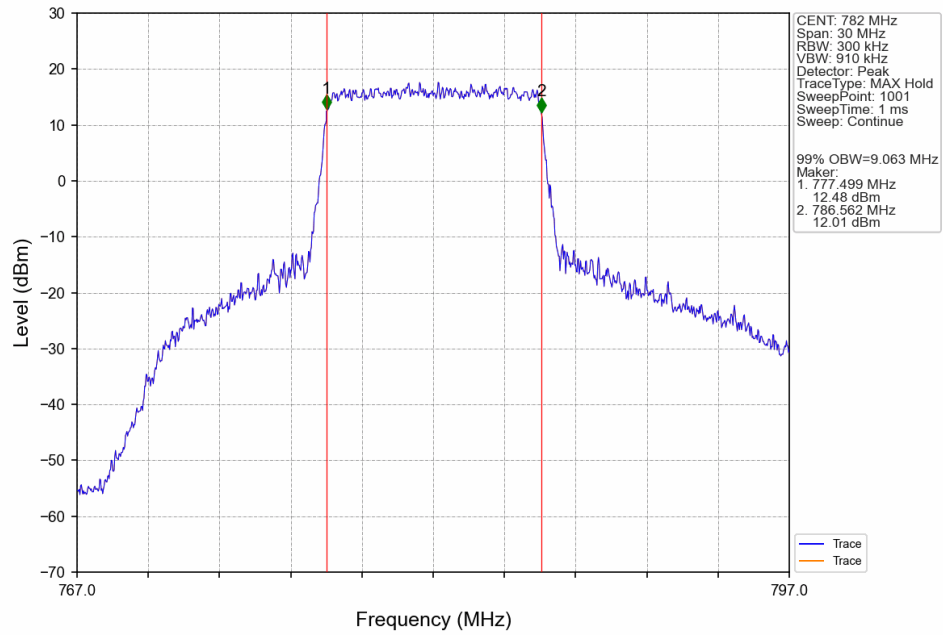
Band13 5MHz 64QAM HCH 784.5MHz RB 25 0 NTNV



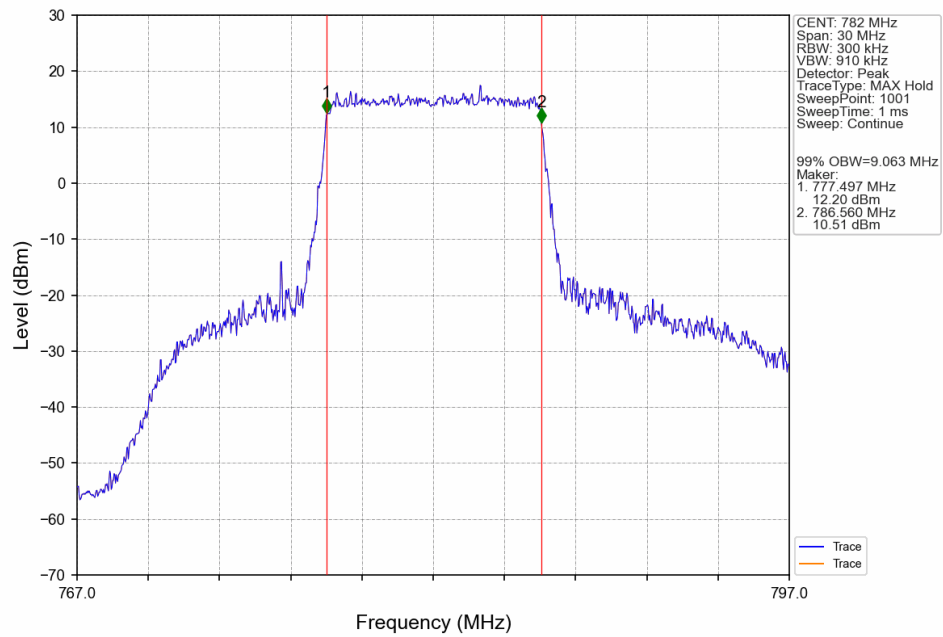
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



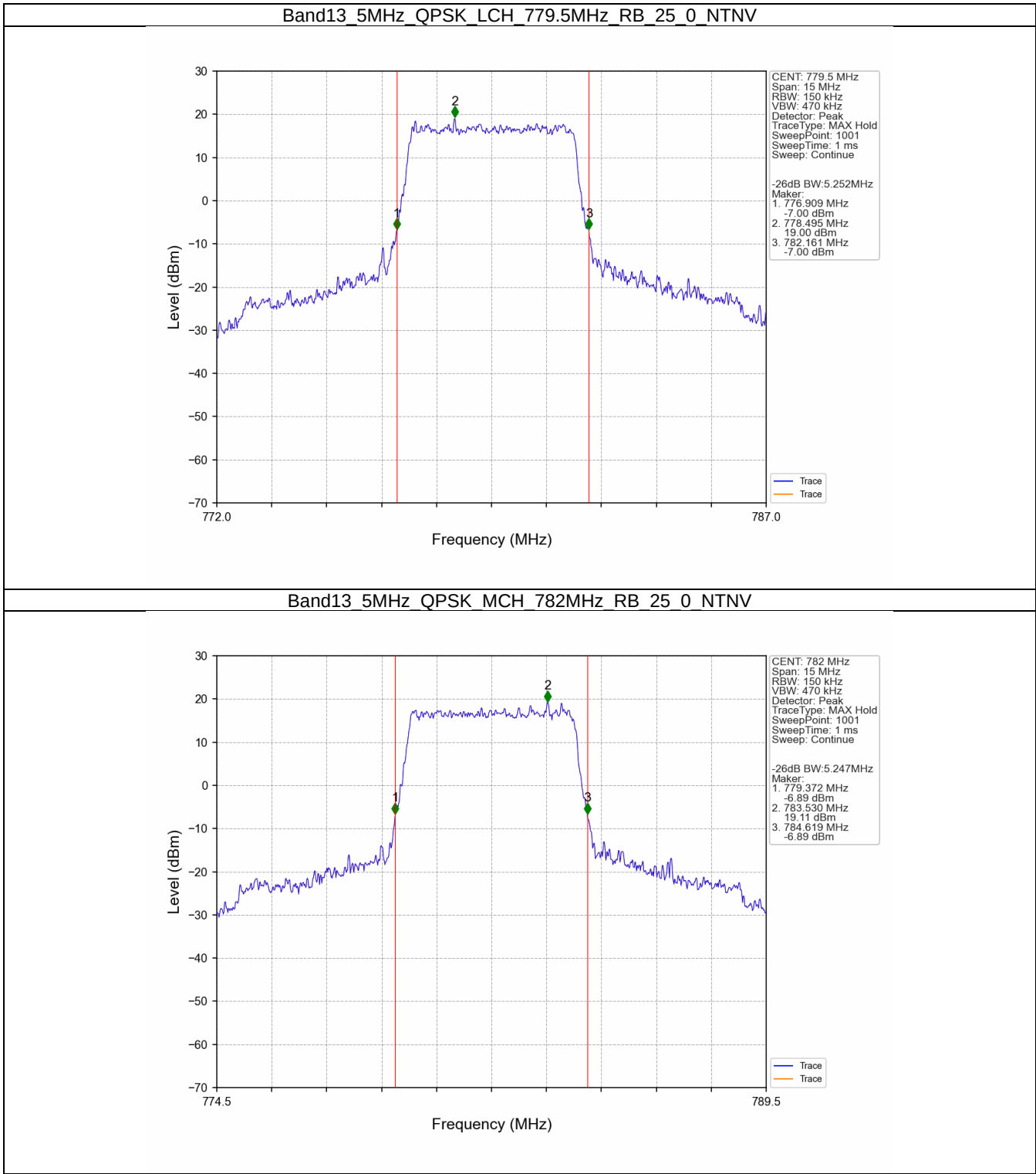
Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



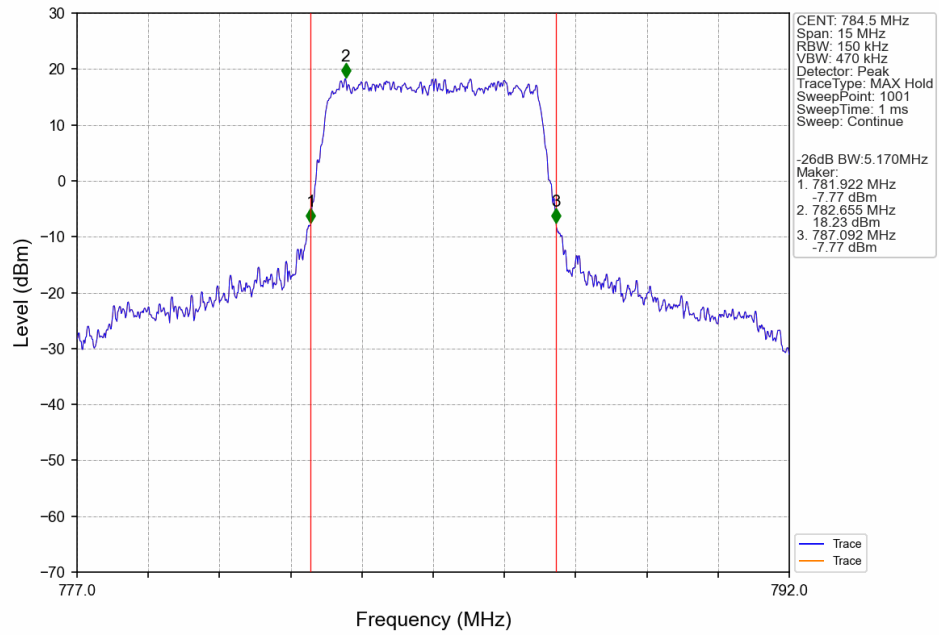
Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



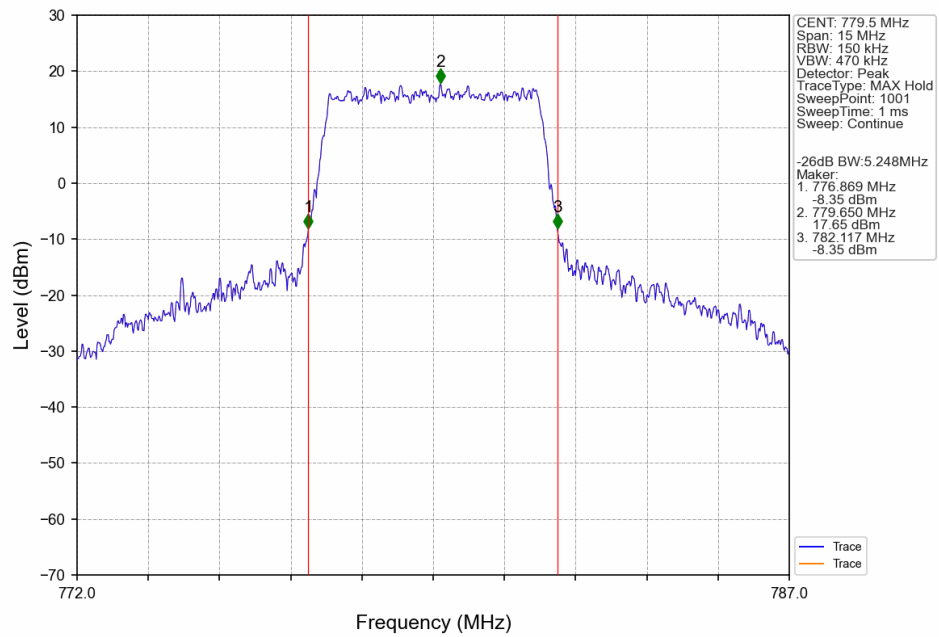
3.2.2 Band13_XDB



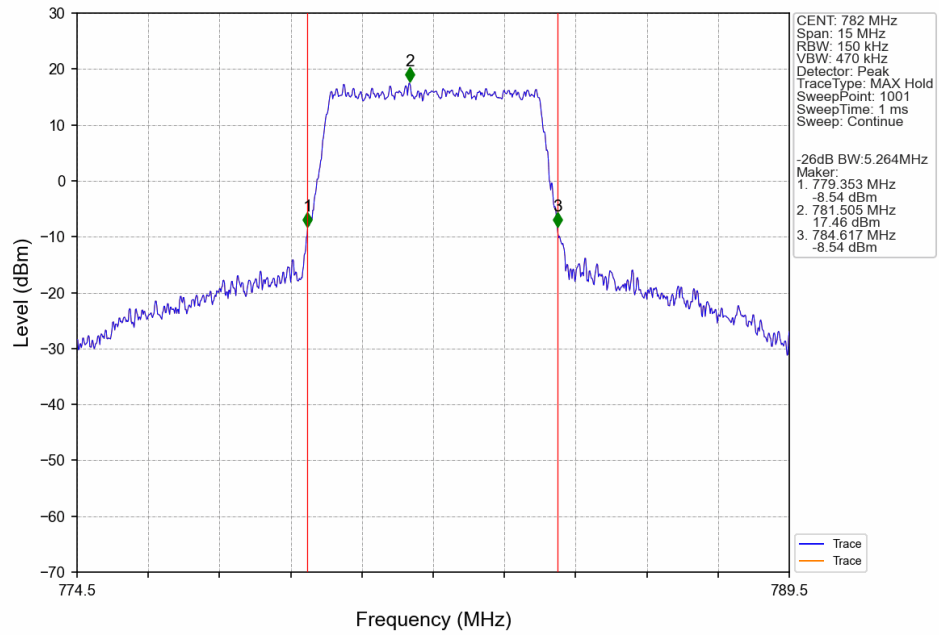
Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTNV



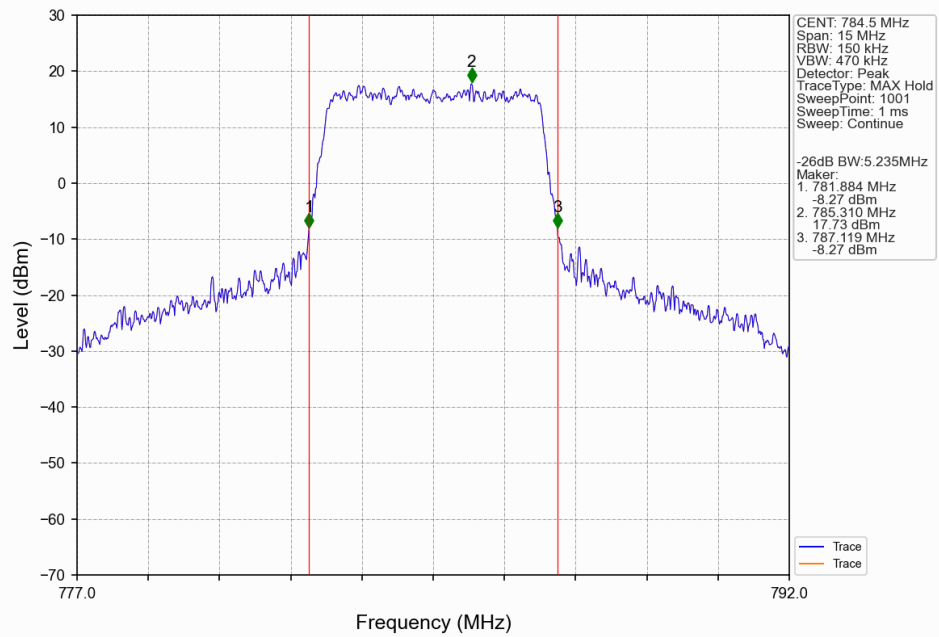
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



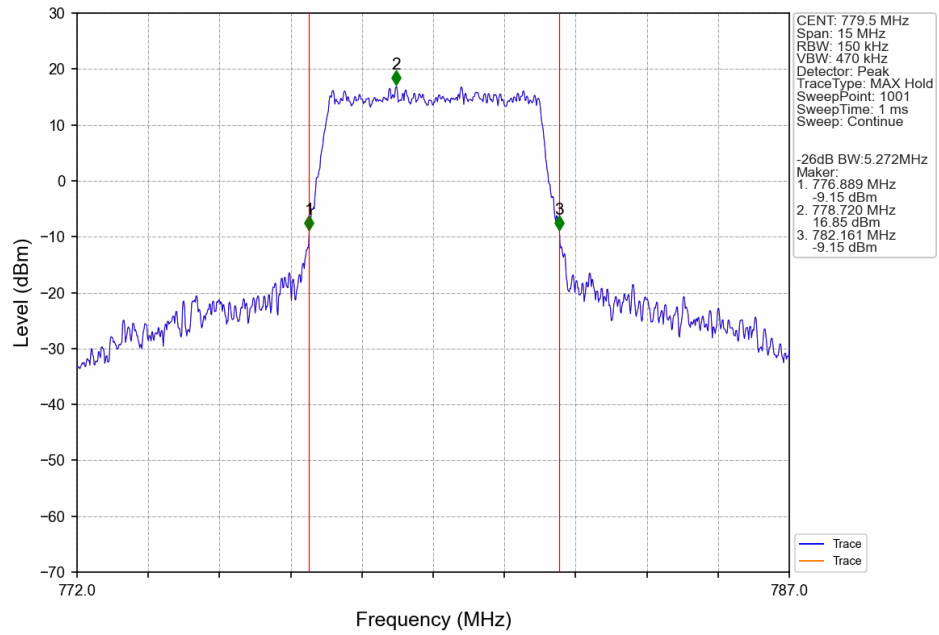
Band13 5MHz 16QAM MCH 782MHz RB 25 0 NTNV



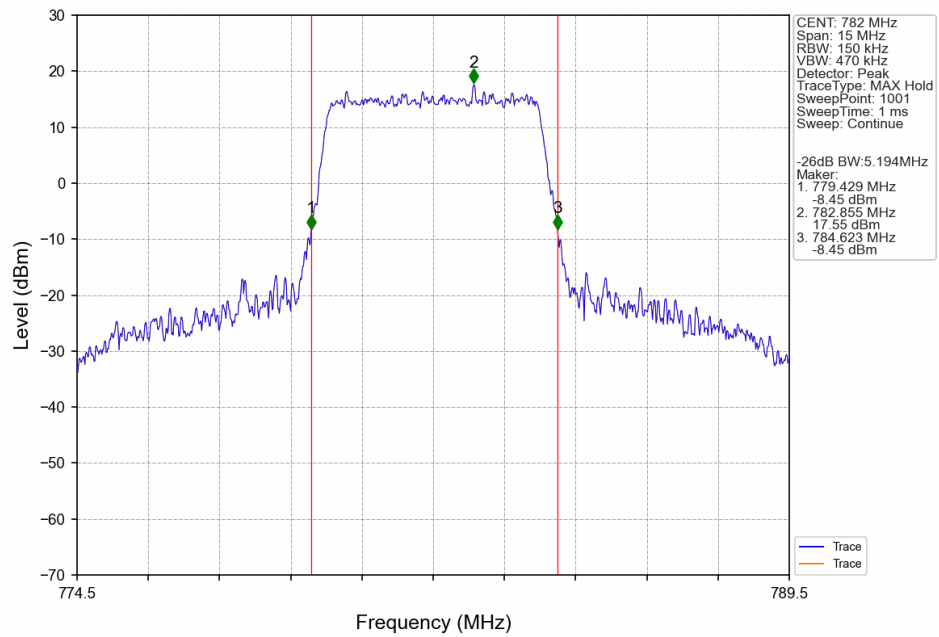
Band13 5MHz 16QAM HCH 784.5MHz RB 25 0 NTNV



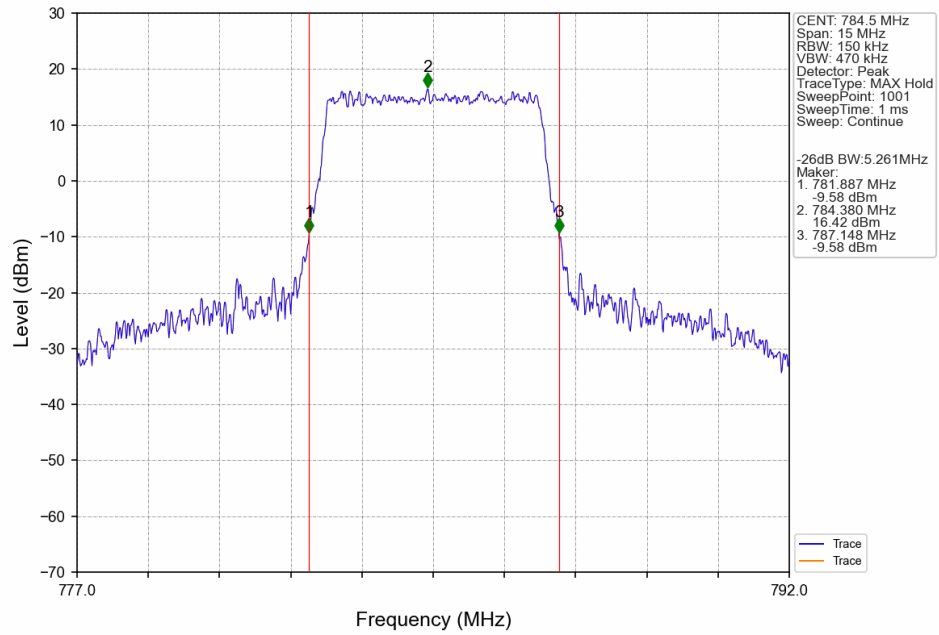
Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



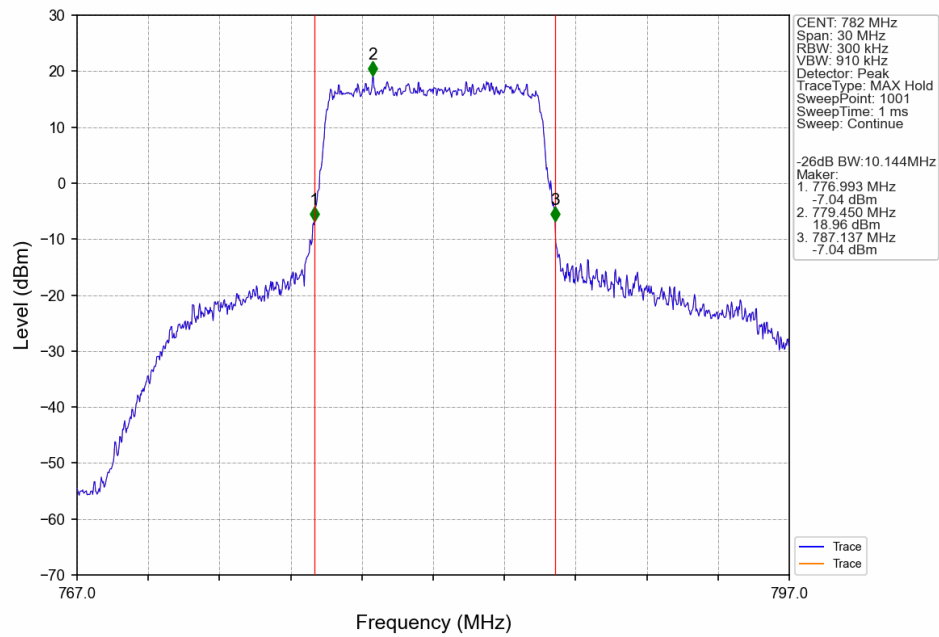
Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



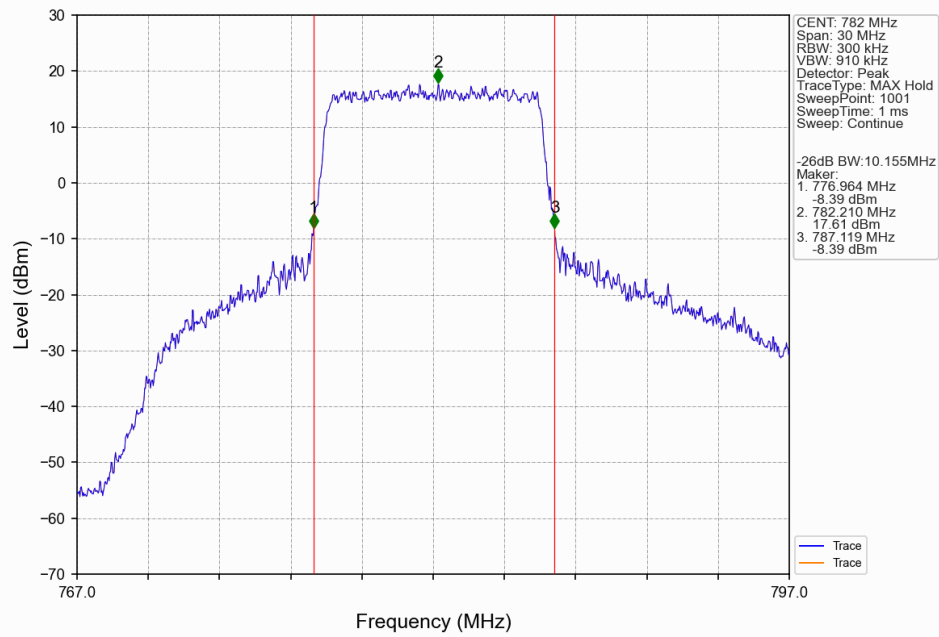
Band13 5MHz 64QAM HCH 784.5MHz RB 25 0 NTNV



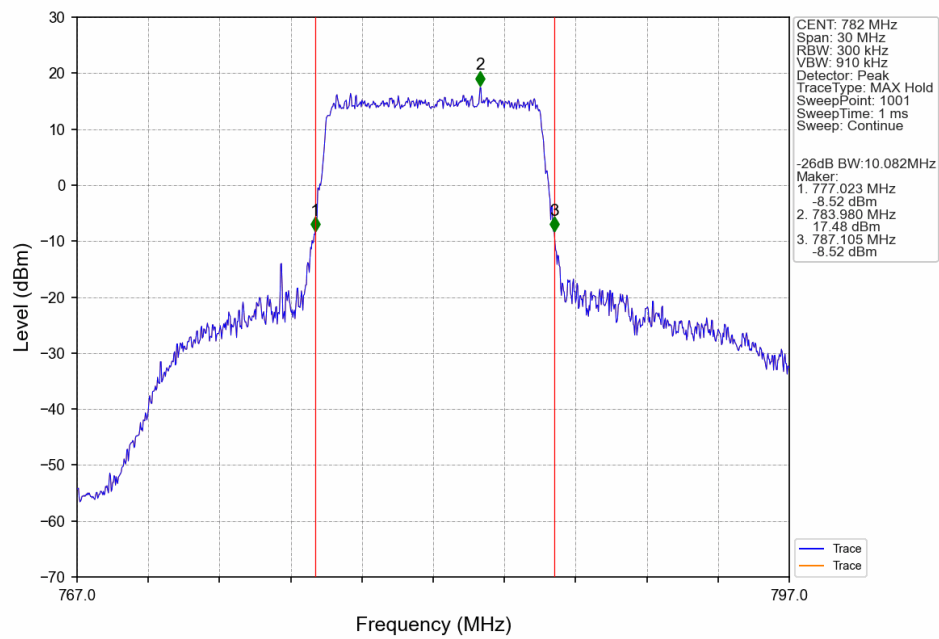
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



4. Peak-Average Ratio

4.1 Test Result

4.1.1 B13_5MHz

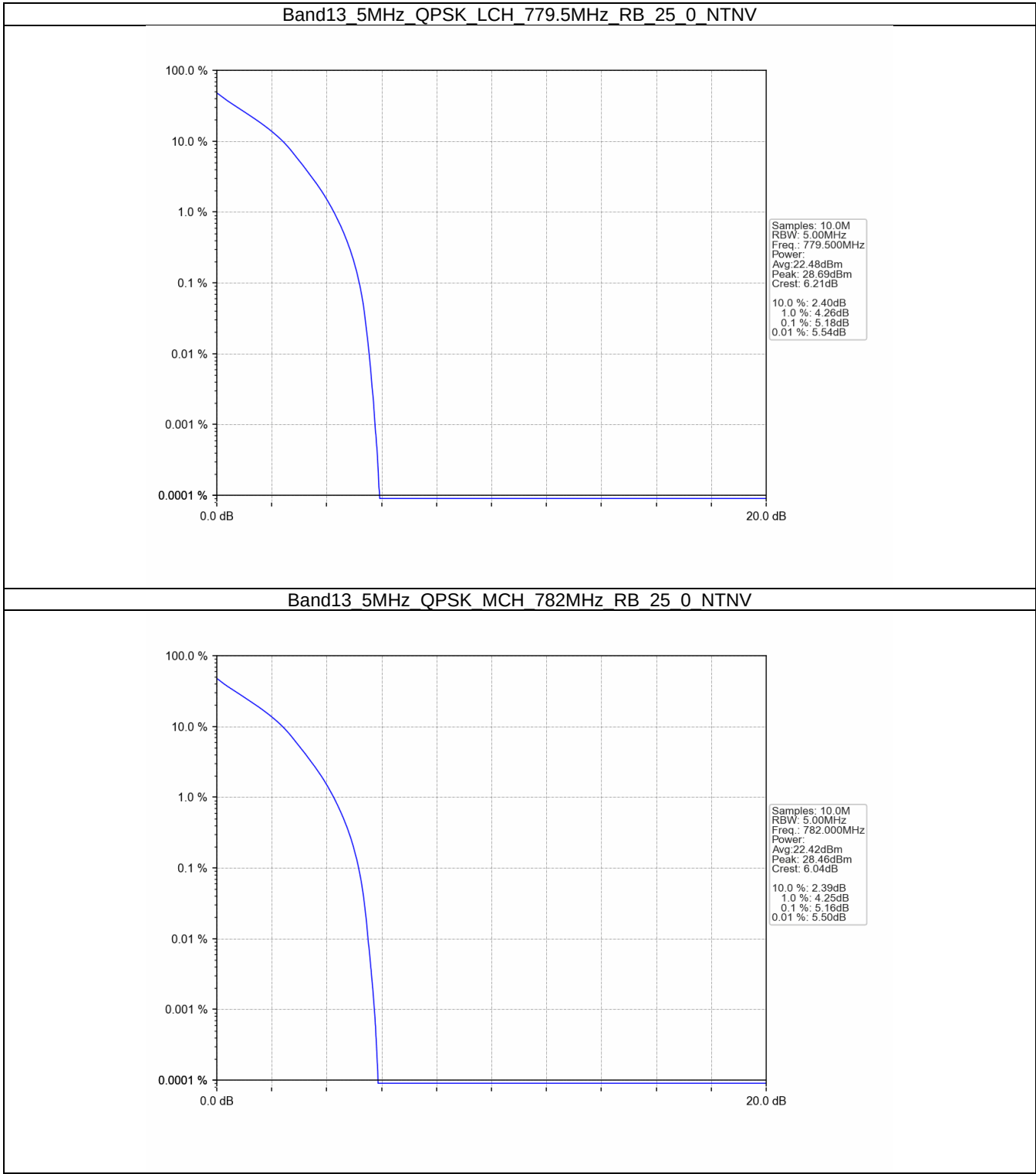
Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	25	0	5.18	<=13	Pass
	782	25	0	5.16	<=13	Pass
	784.5	25	0	5.22	<=13	Pass
16QAM	779.5	25	0	6.00	<=13	Pass
	782	25	0	5.98	<=13	Pass
	784.5	25	0	6.04	<=13	Pass
64QAM	779.5	25	0	6.42	<=13	Pass
	782	25	0	6.39	<=13	Pass
	784.5	25	0	6.44	<=13	Pass

4.1.2 B13_10MHz

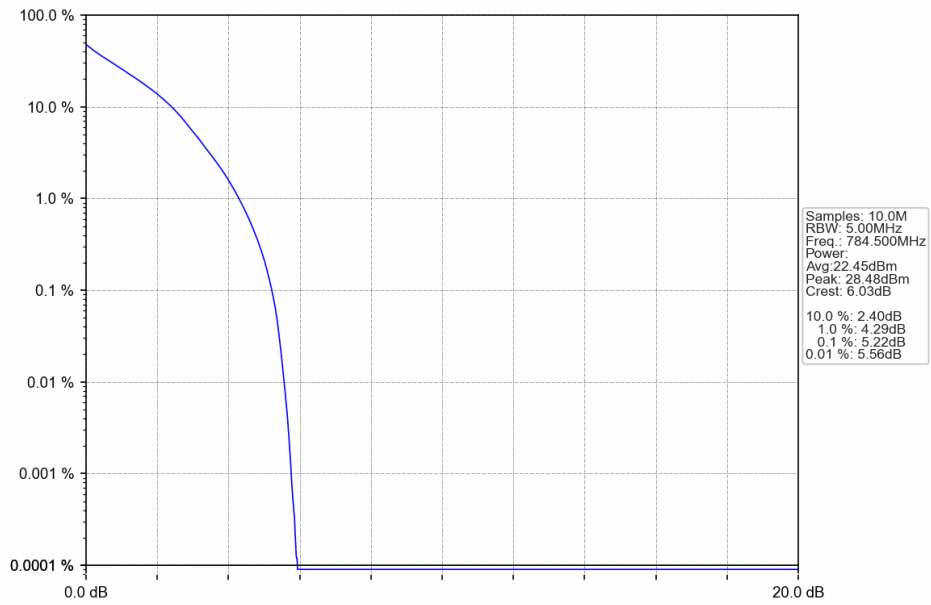
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.18	<=13	Pass
16QAM	782	50	0	5.98	<=13	Pass
64QAM	782	50	0	6.39	<=13	Pass

4.2 Test Graph

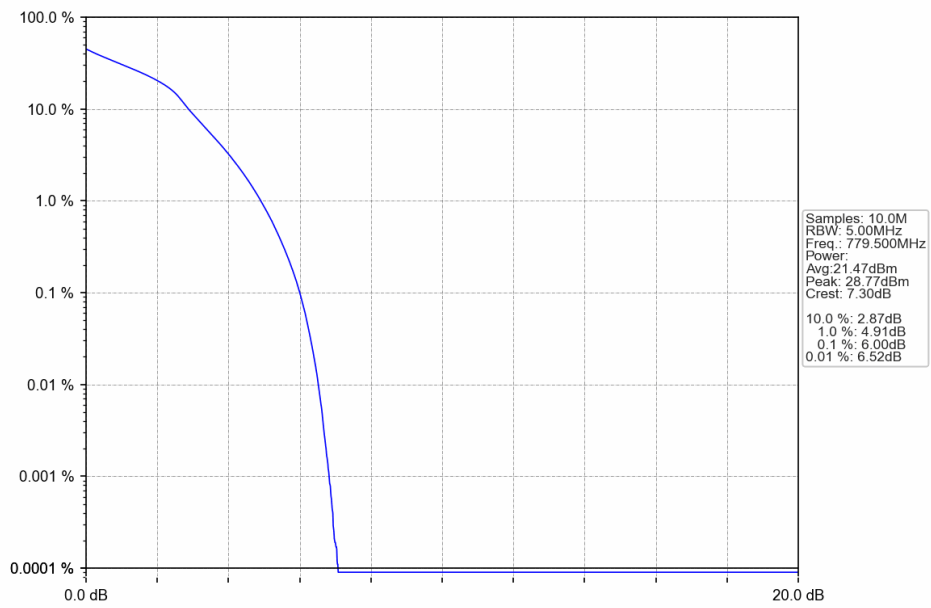
4.2.1 B13_5MHz



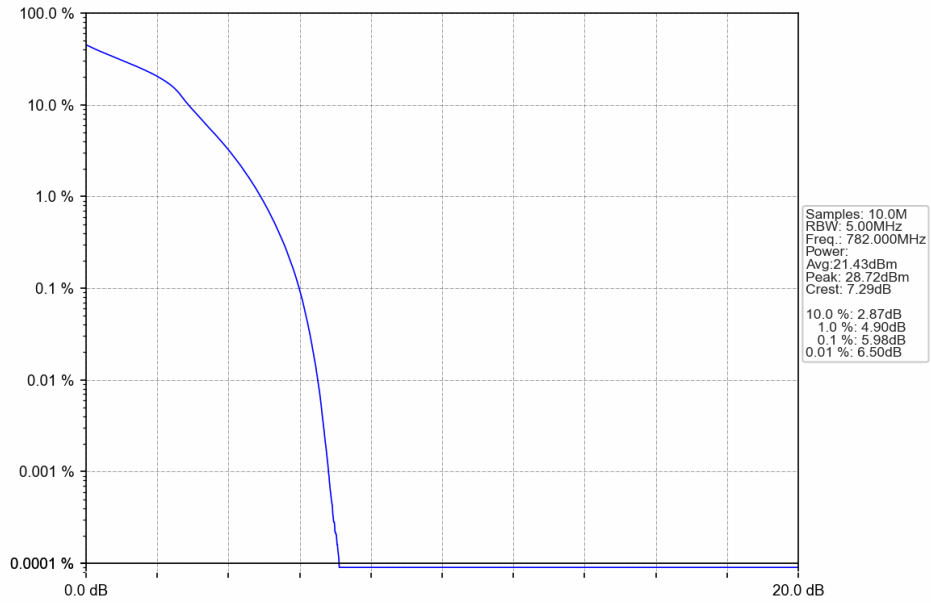
Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTN



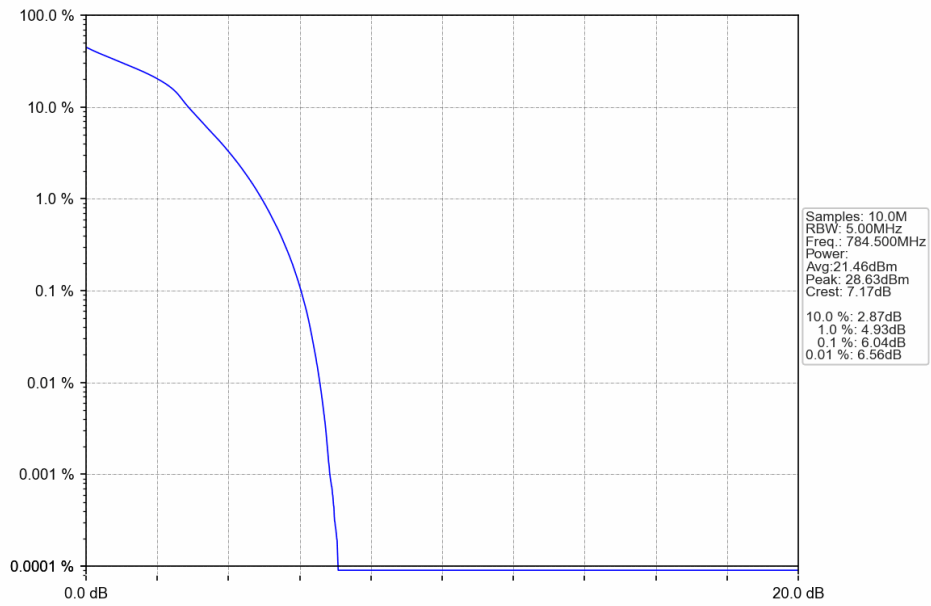
Band13 5MHz 16QAM LCH 779.5MHz RB 25 0 NTN



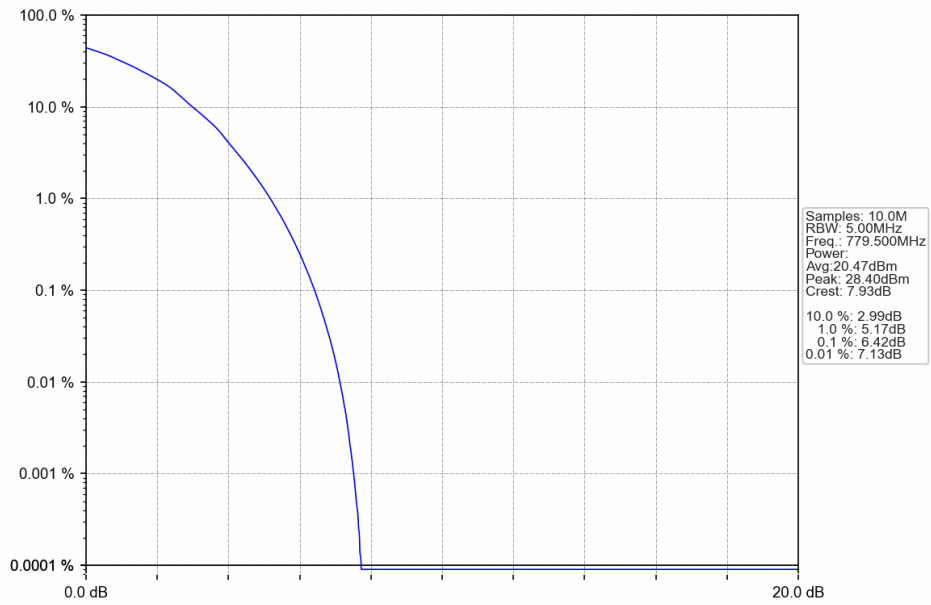
Band13 5MHz 16QAM MCH 782MHz RB 25 0 NTNV



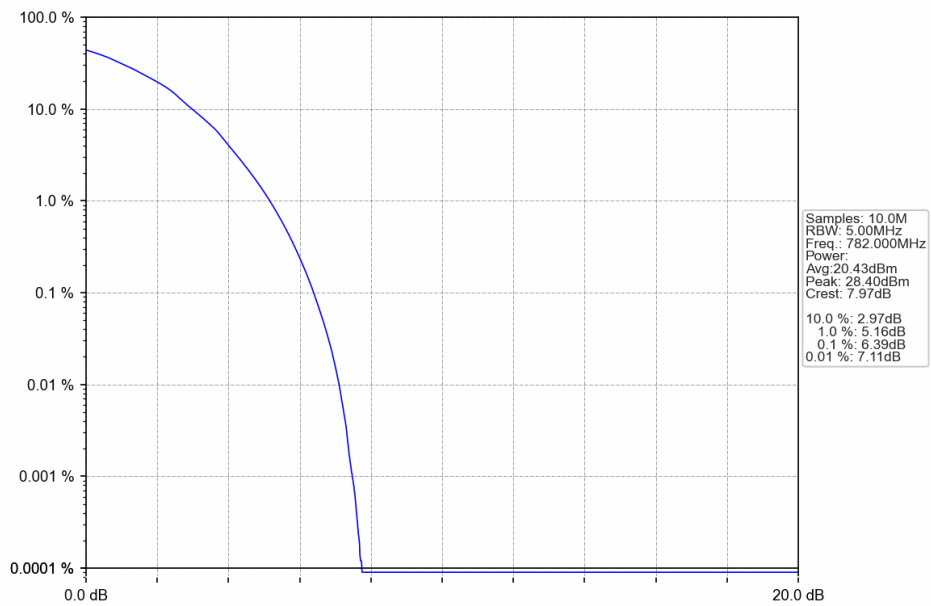
Band13 5MHz 16QAM HCH 784.5MHz RB 25 0 NTNV

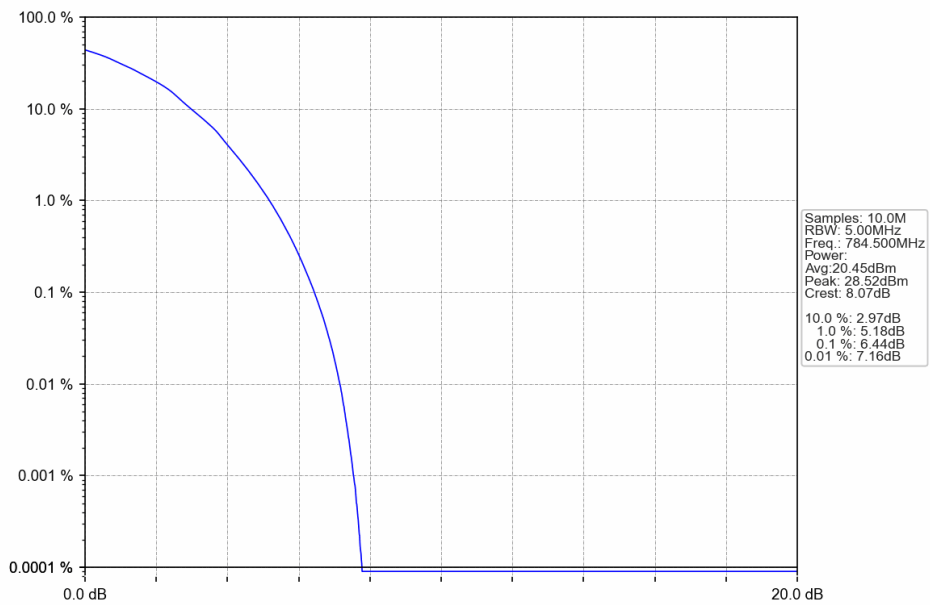


Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV

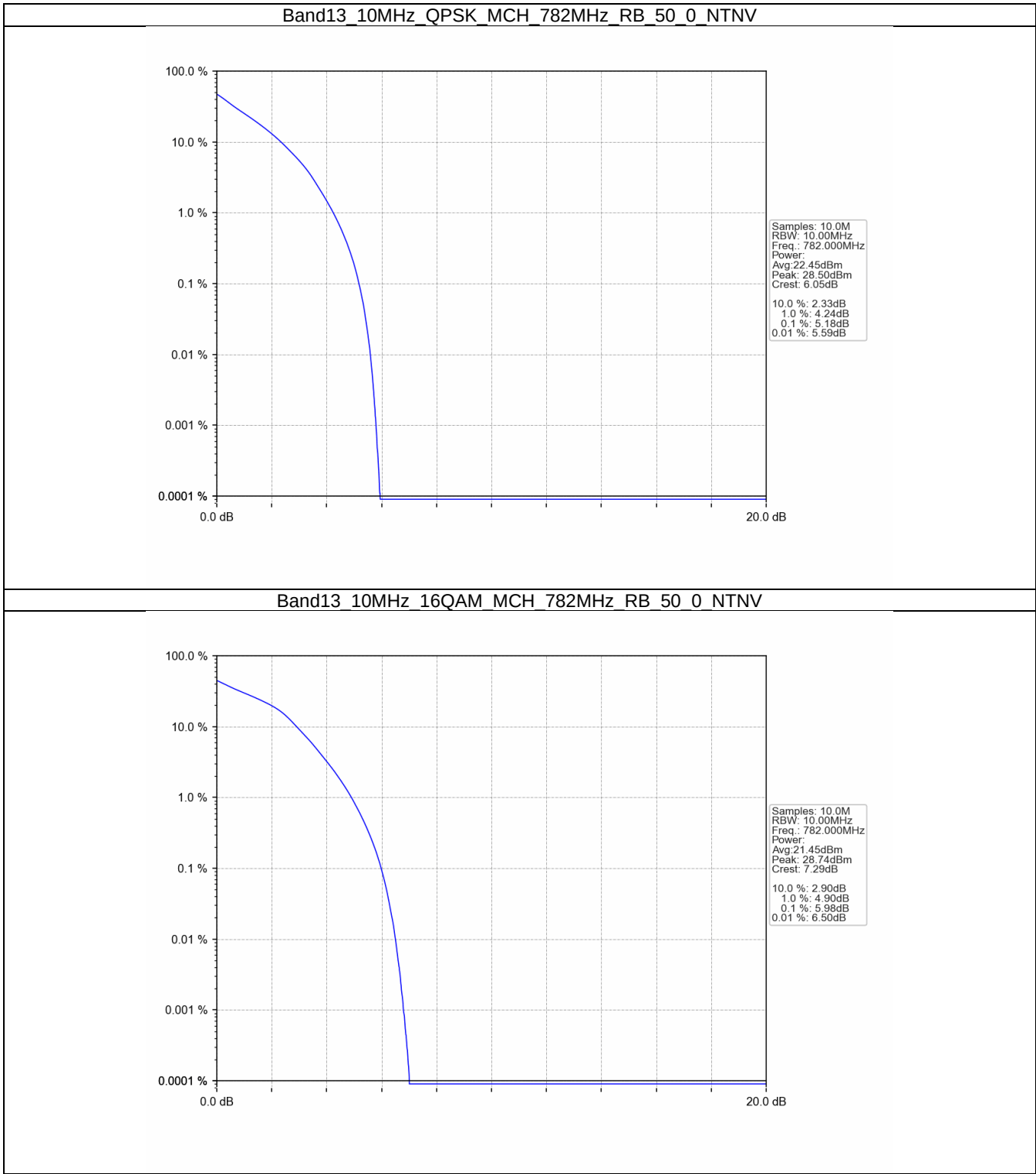


Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV

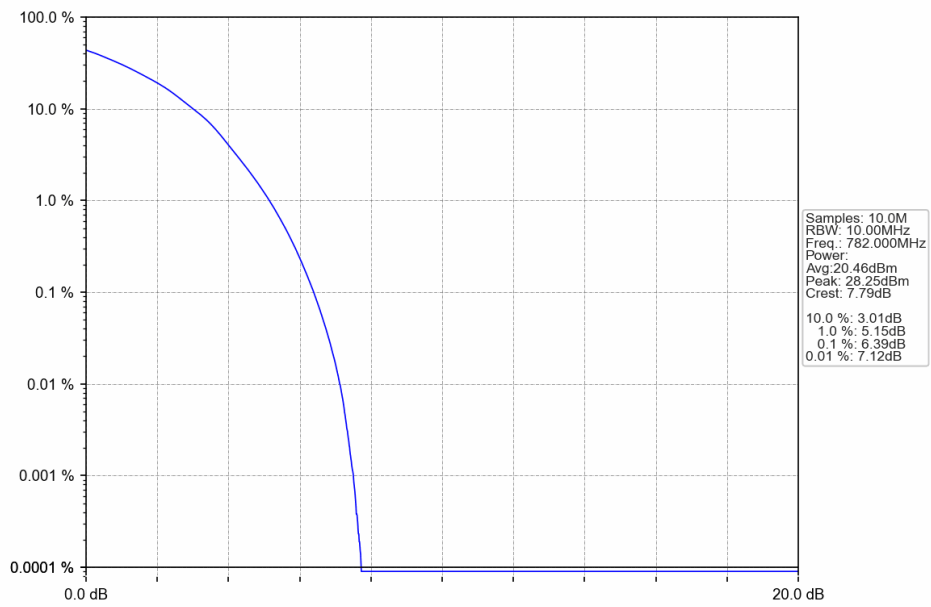




4.2.2 B13_10MHz



Band13 10MHz 64QAM MCH 782MHz RB 50 0 NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B13_5MHz

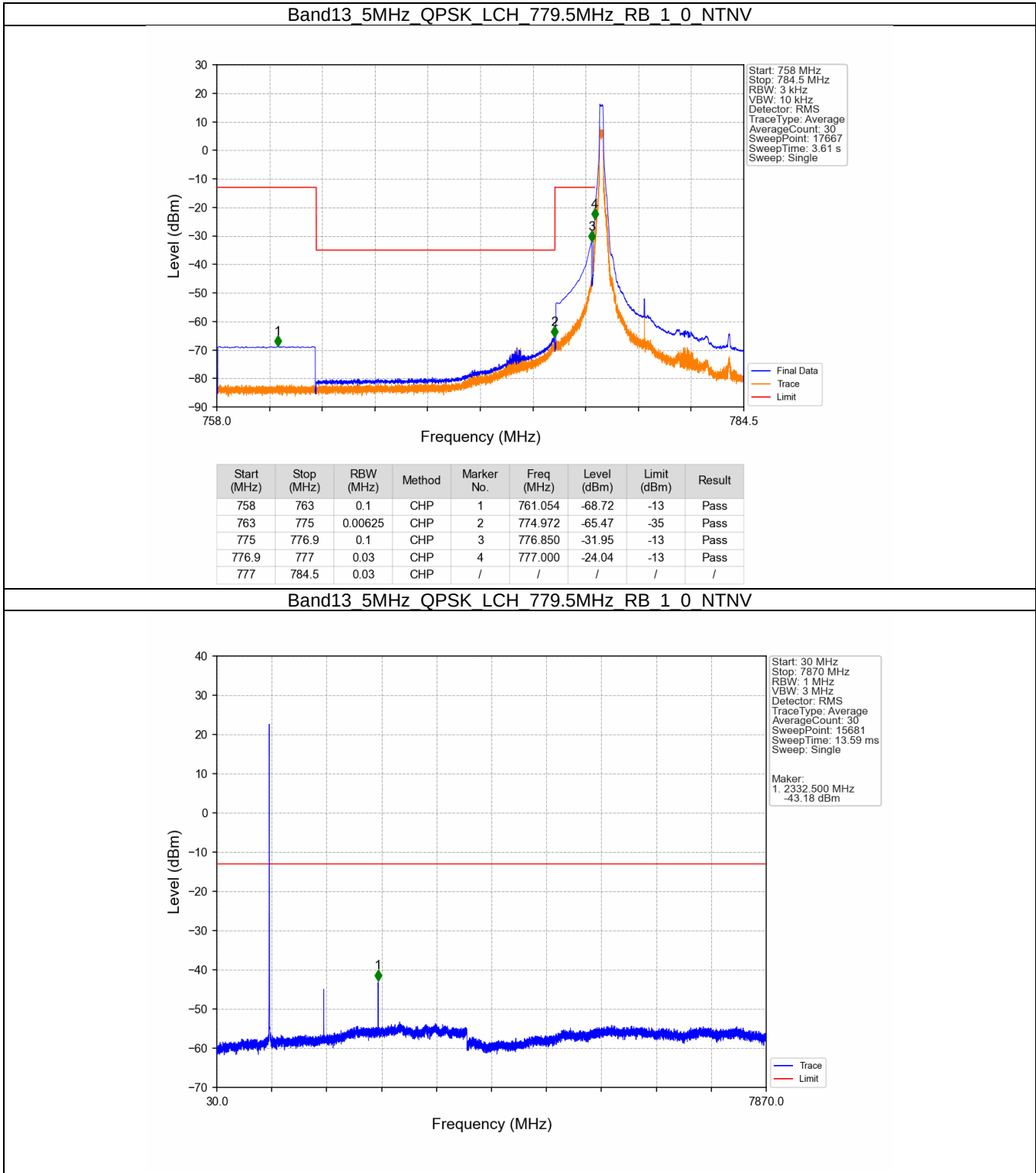
Band: 13 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test 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
64QAM	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

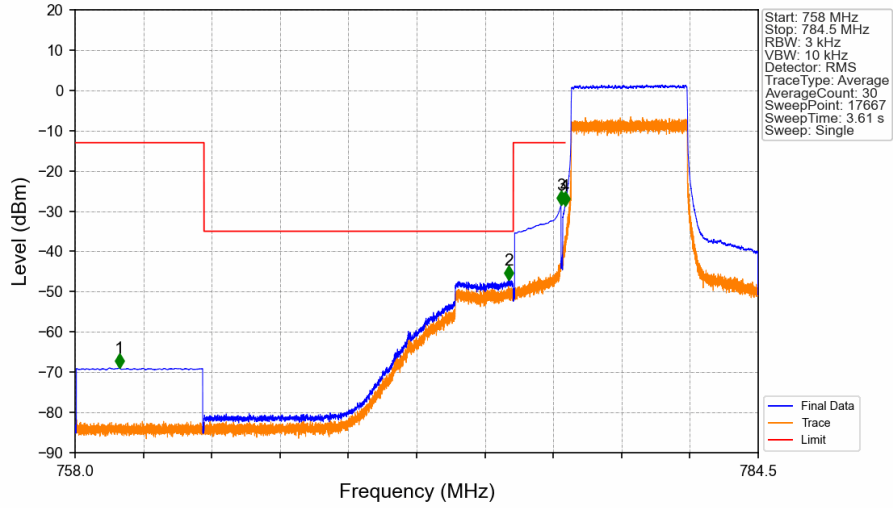
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	782	1	0	Refer To 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
64QAM	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

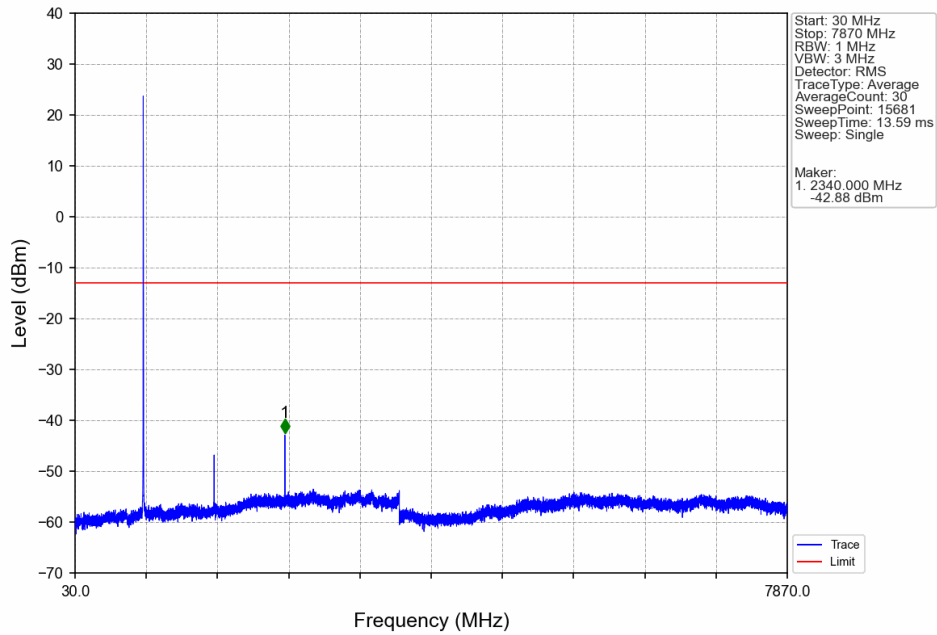


Band13 5MHz QPSK LCH 779.5MHz RB 25 0 NTN

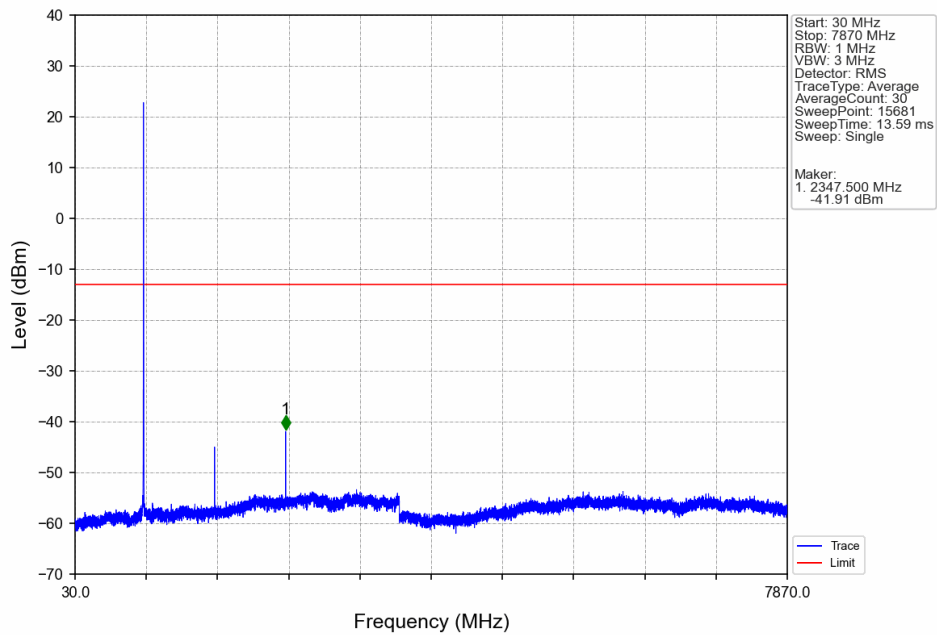


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.712	-68.93	-13	Pass
763	775	0.00625	CHP	2	774.813	-46.97	-35	Pass
775	776.9	0.1	CHP	3	776.850	-28.45	-13	Pass
776.9	777	0.03	CHP	4	777.000	-28.62	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

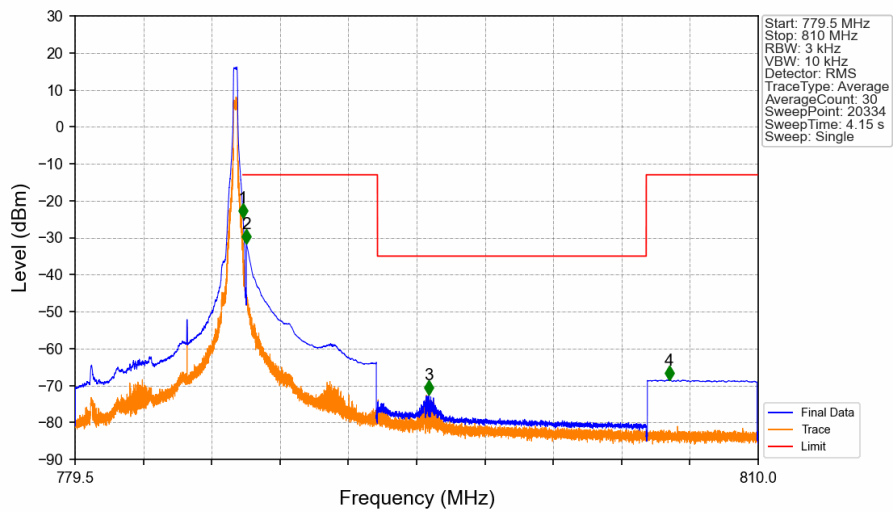
Band13 5MHz QPSK MCH 782MHz RB 1 0 NTN



Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTN

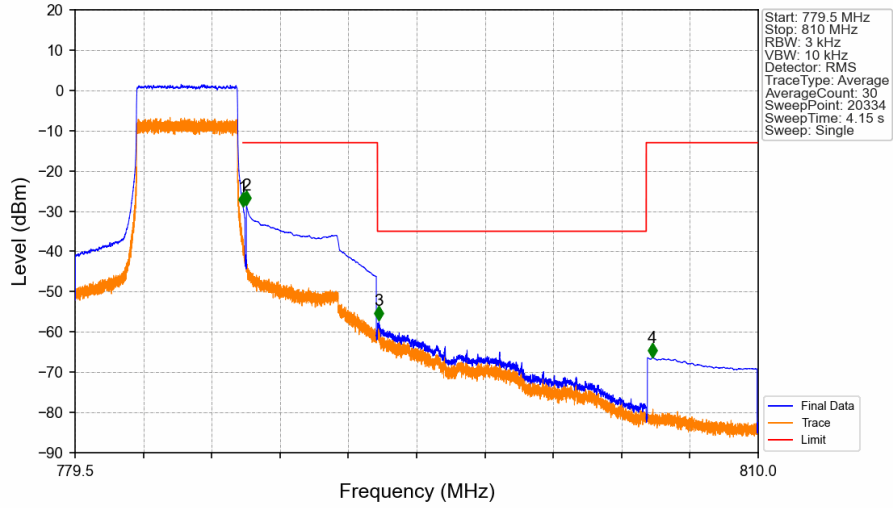


Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24 NTN



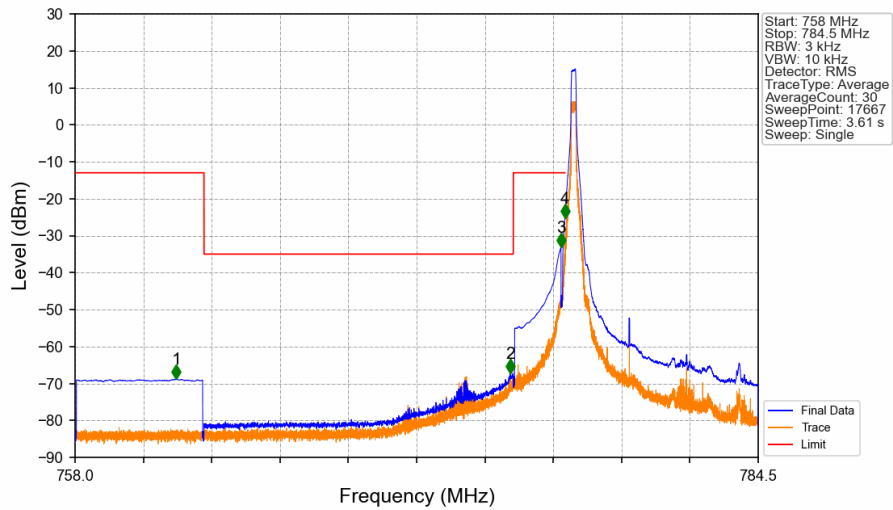
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-24.48	-13	Pass
787.1	793	0.1	CHP	2	787.150	-31.50	-13	Pass
793	805	0.00625	CHP	3	795.304	-72.43	-35	Pass
805	810	0.1	CHP	4	806.029	-68.51	-13	Pass

Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTV



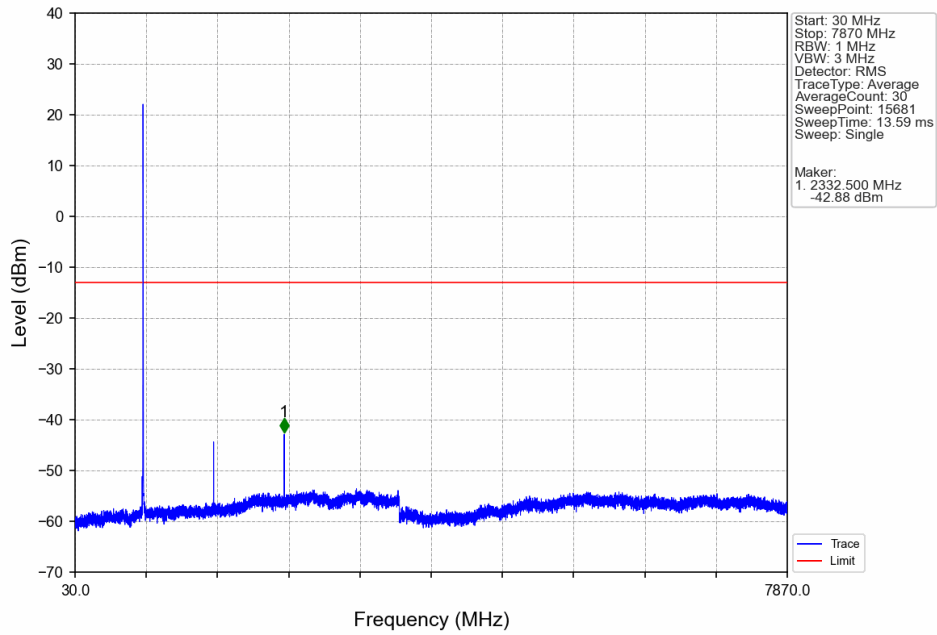
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-28.78	-13	Pass
787.1	793	0.1	CHP	2	787.150	-28.41	-13	Pass
793	805	0.00625	CHP	3	793.071	-57.06	-35	Pass
805	810	0.1	CHP	4	805.267	-66.33	-13	Pass

Band13 5MHz 16QAM LCH 779.5MHz RB 1 0 NTV

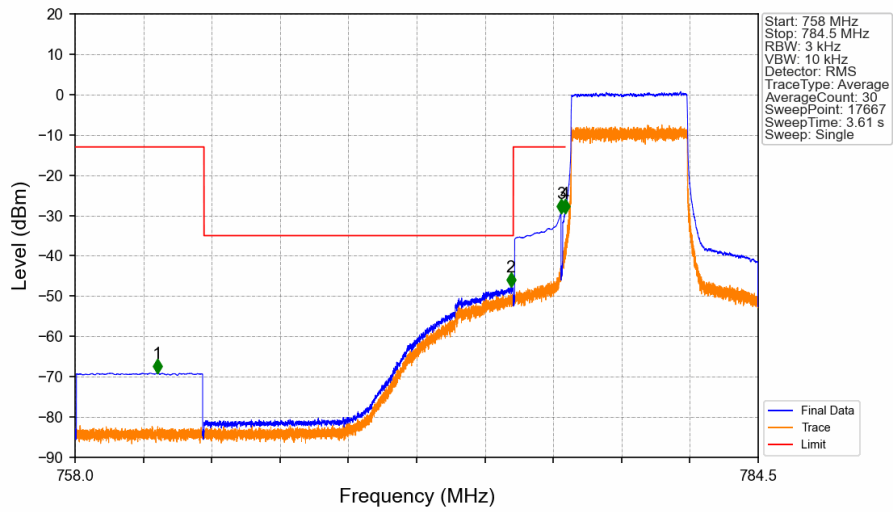


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.930	-68.83	-13	Pass
763	775	0.00625	CHP	2	774.880	-67.24	-35	Pass
775	776.9	0.1	CHP	3	776.850	-33.16	-13	Pass
776.9	777	0.03	CHP	4	777.000	-25.23	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

Band13 5MHz 16QAM LCH 779.5MHz RB 1 0 NTNV

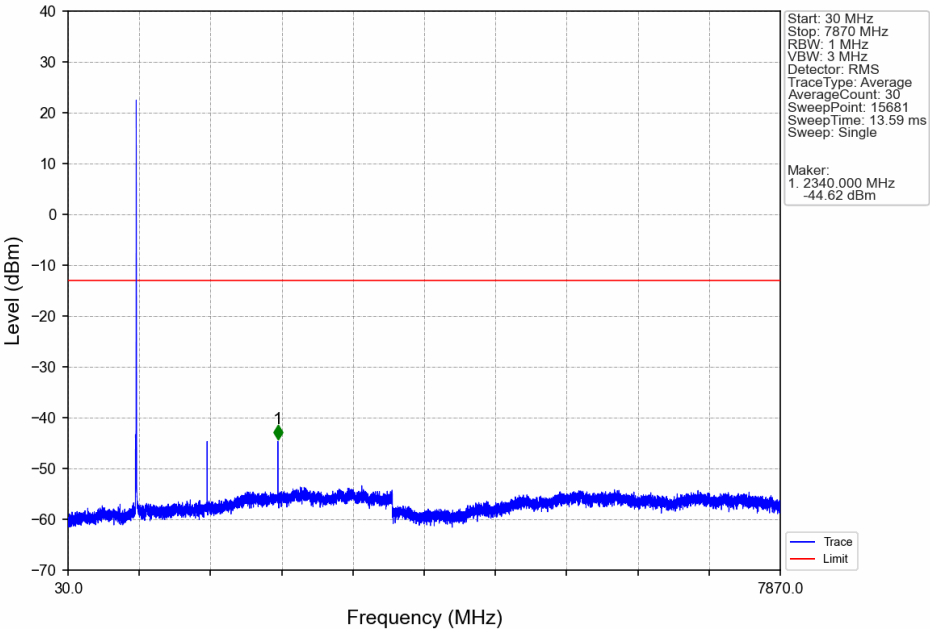


Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV

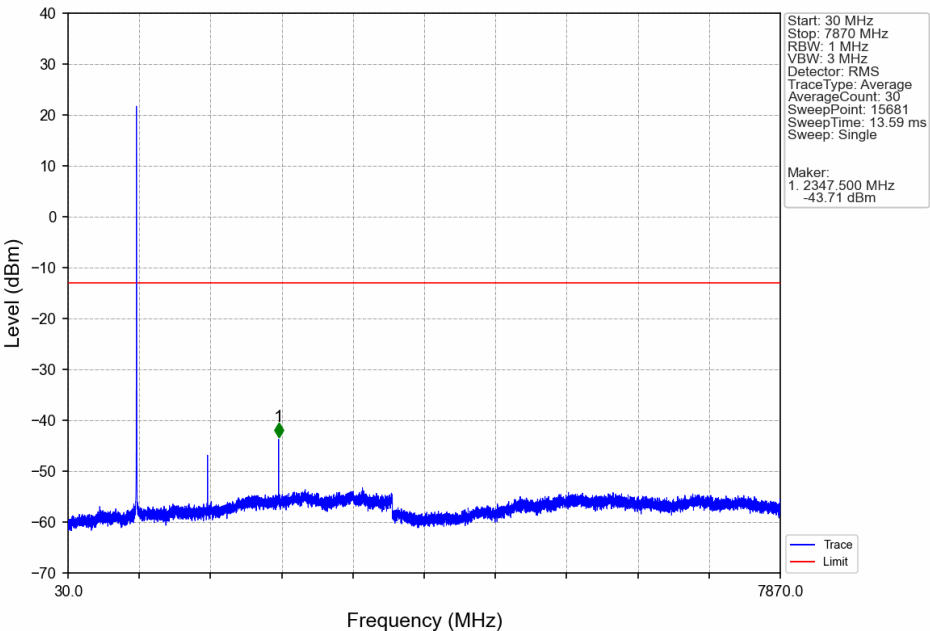


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.189	-69.09	-13	Pass
763	775	0.00625	CHP	2	774.901	-47.59	-35	Pass
775	776.9	0.1	CHP	3	776.850	-29.39	-13	Pass
776.9	777	0.03	CHP	4	777.000	-29.42	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

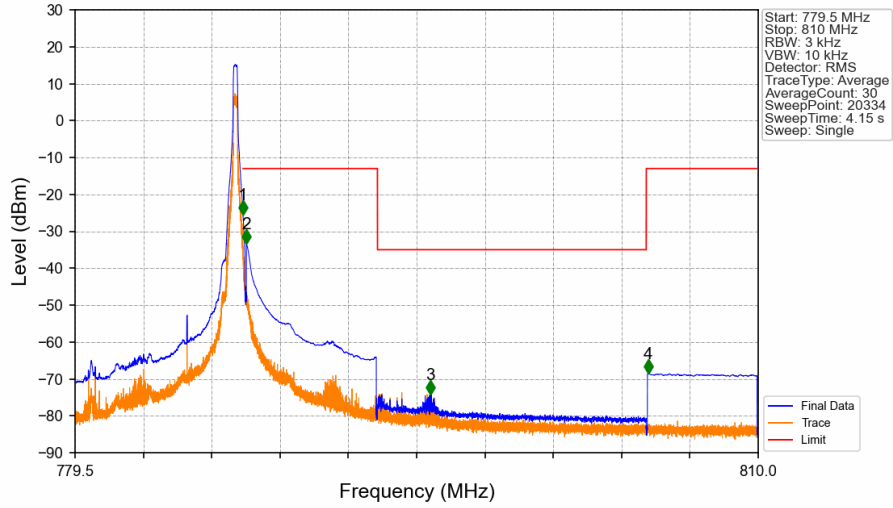
Band13 5MHz 16QAM MCH 782MHz RB 1 0 NTN



Band13 5MHz 16QAM HCH 784.5MHz RB 1 0 NTN

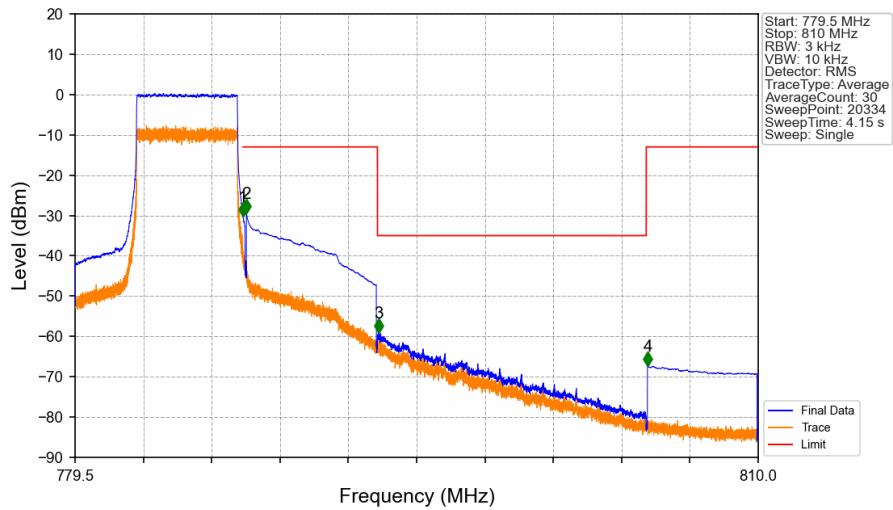


Band13 5MHz 16QAM HCH 784.5MHz RB 1 24 NTNV



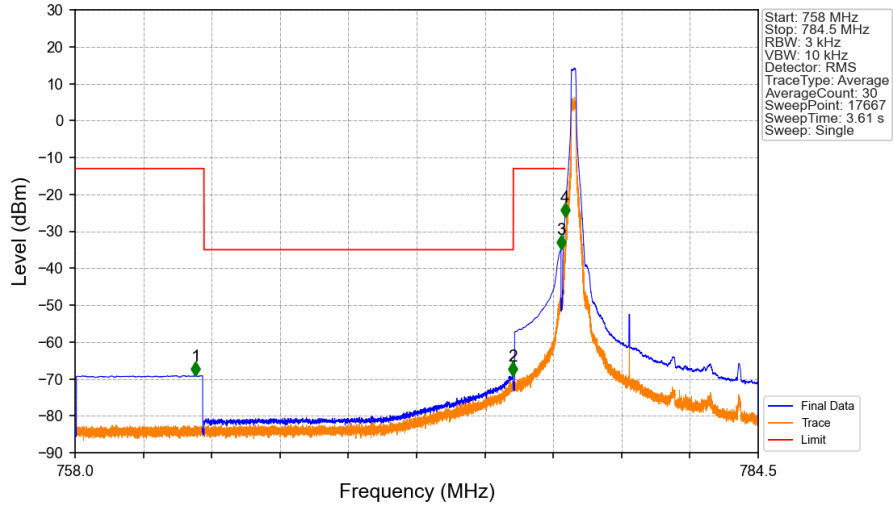
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-25.52	-13	Pass
787.1	793	0.1	CHP	2	787.150	-33.32	-13	Pass
793	805	0.00625	CHP	3	795.354	-74.12	-35	Pass
805	810	0.1	CHP	4	805.098	-68.49	-13	Pass

Band13 5MHz 16QAM HCH 784.5MHz RB 25 0 NTNV



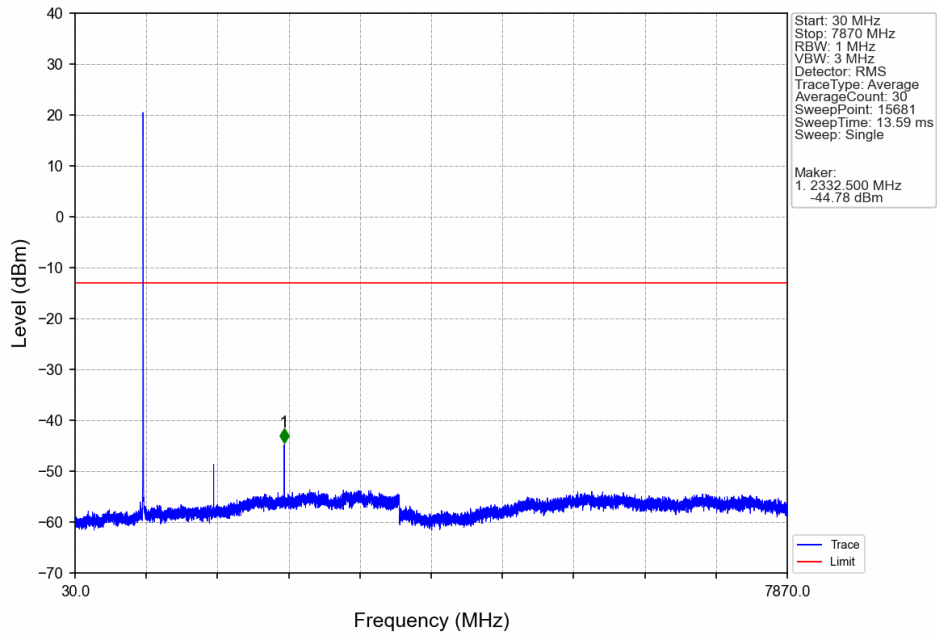
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-30.32	-13	Pass
787.1	793	0.1	CHP	2	787.150	-29.43	-13	Pass
793	805	0.00625	CHP	3	793.057	-59.05	-35	Pass
805	810	0.1	CHP	4	805.069	-67.36	-13	Pass

Band13 5MHz 64QAM LCH 779.5MHz RB 1 0 NTV

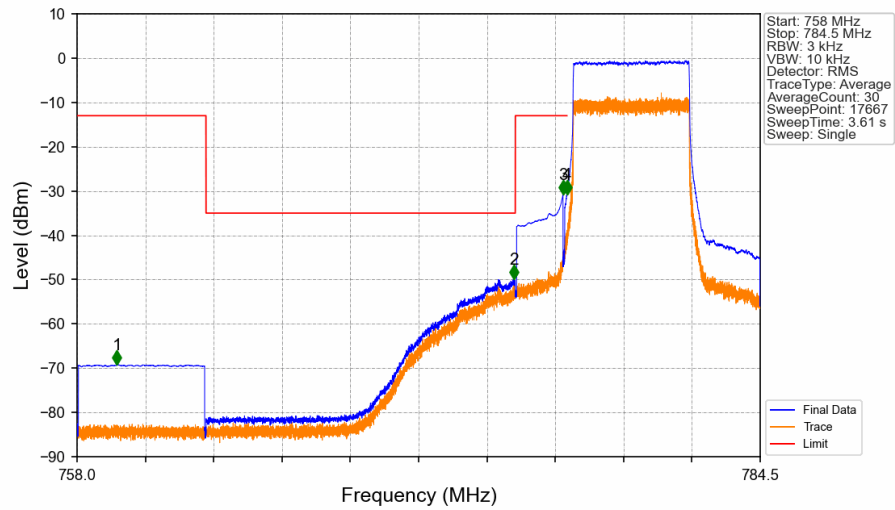


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.671	-69.08	-13	Pass
763	775	0.00625	CHP	2	774.975	-69.19	-35	Pass
775	776.9	0.1	CHP	3	776.850	-34.92	-13	Pass
776.9	777	0.03	CHP	4	777.000	-26.21	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

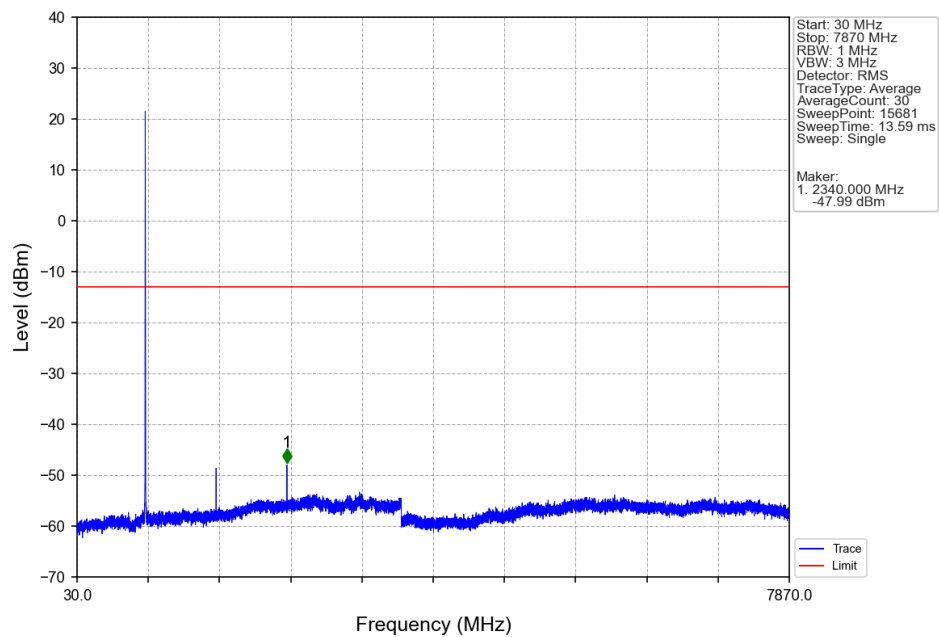
Band13 5MHz 64QAM LCH 779.5MHz RB 1 0 NTV



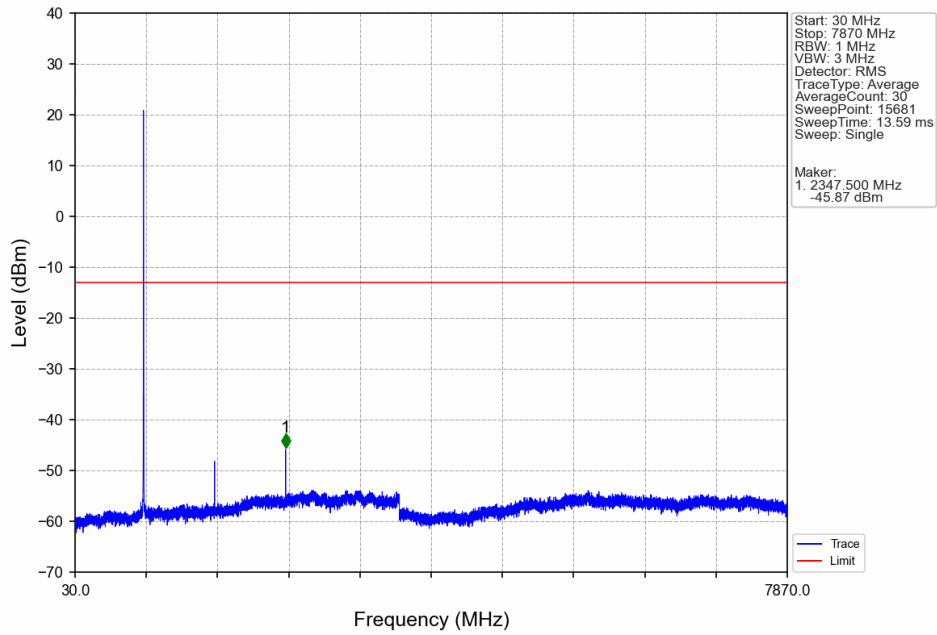
Band13 5MHz 64QAM LCH 779.5MHz RB 25 0 NTNV



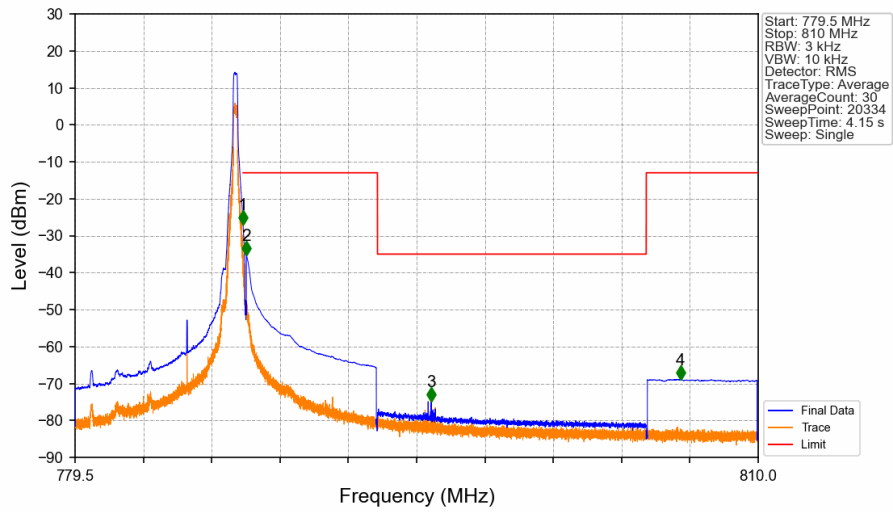
Band13 5MHz 64QAM MCH 782MHz RB 1 0 NTNV



Band13 5MHz 64QAM HCH 784.5MHz RB 1 0 NTN

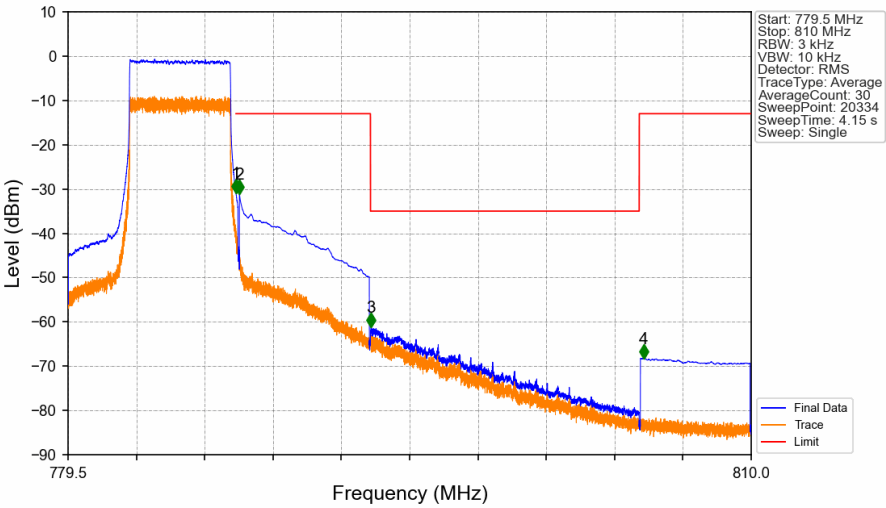


Band13 5MHz 64QAM HCH 784.5MHz RB 1 24 NTN



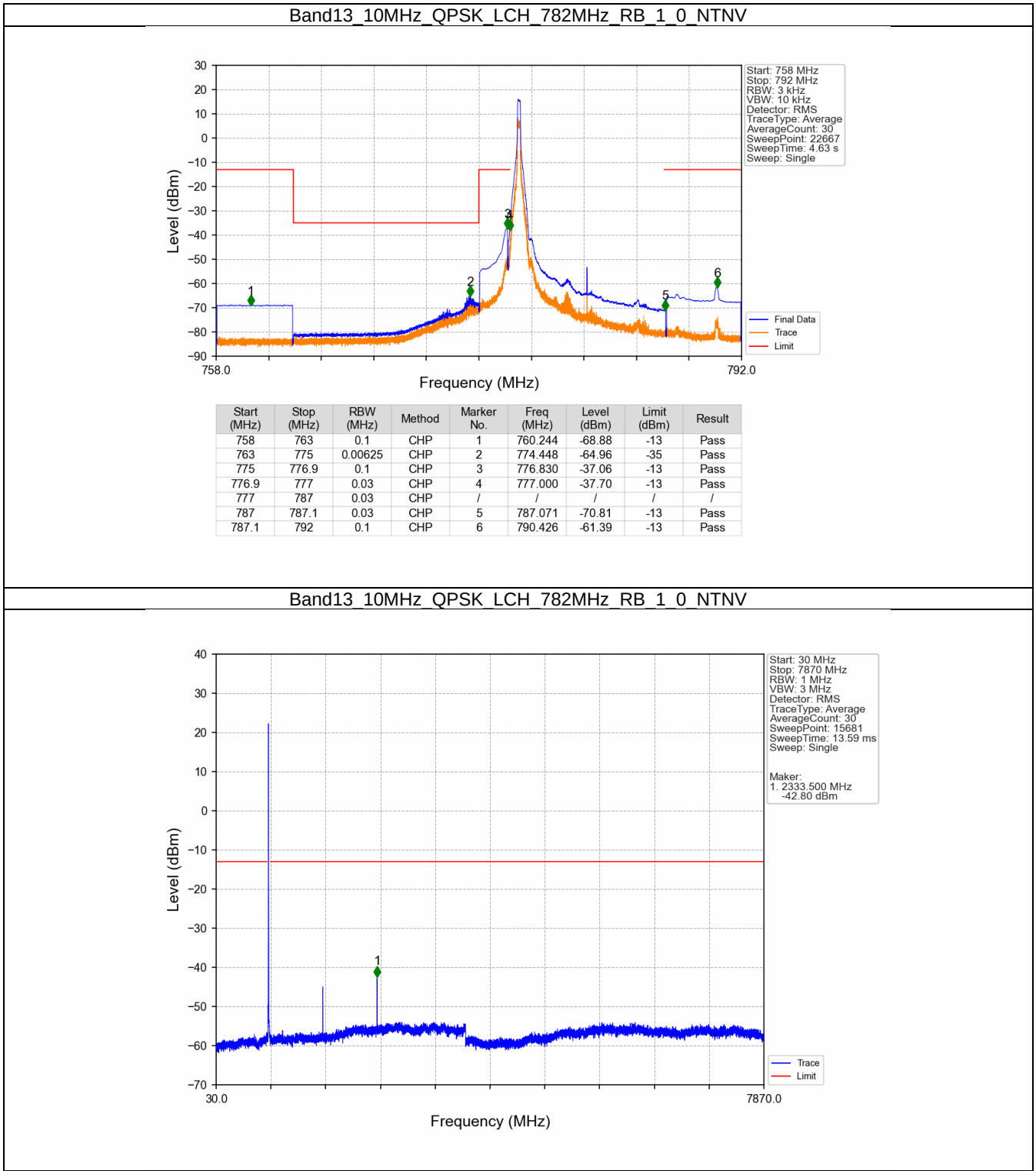
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-26.91	-13	Pass
787.1	793	0.1	CHP	2	787.150	-35.34	-13	Pass
793	805	0.00625	CHP	3	795.397	-74.96	-35	Pass
805	810	0.1	CHP	4	806.541	-68.88	-13	Pass

Band13 5MHz 64QAM HCH 784.5MHz RB 25 0 NTV

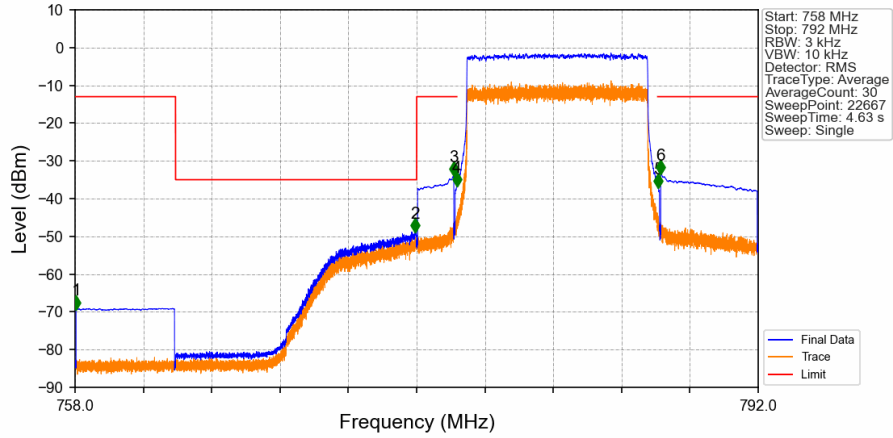


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-30.88	-13	Pass
787.1	793	0.1	CHP	2	787.150	-31.10	-13	Pass
793	805	0.00625	CHP	3	793.027	-61.12	-35	Pass
805	810	0.1	CHP	4	805.197	-68.22	-13	Pass

5.2.2 B13_10MHz

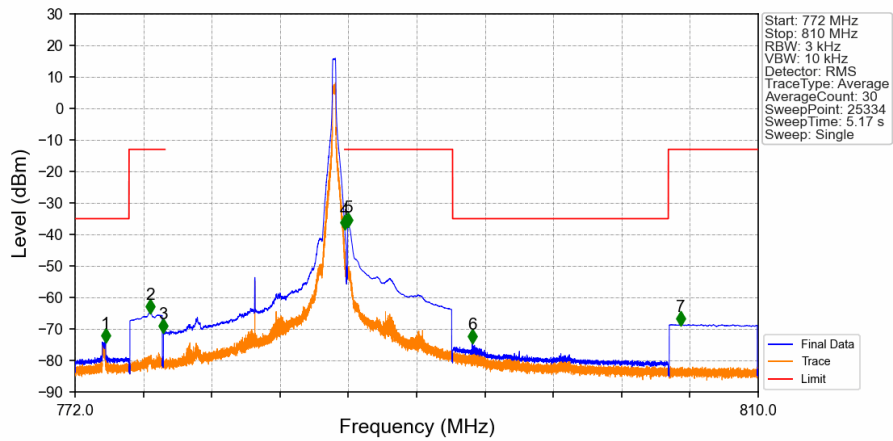


Band13 10MHz QPSK LCH 782MHz RB 50 0 NTN



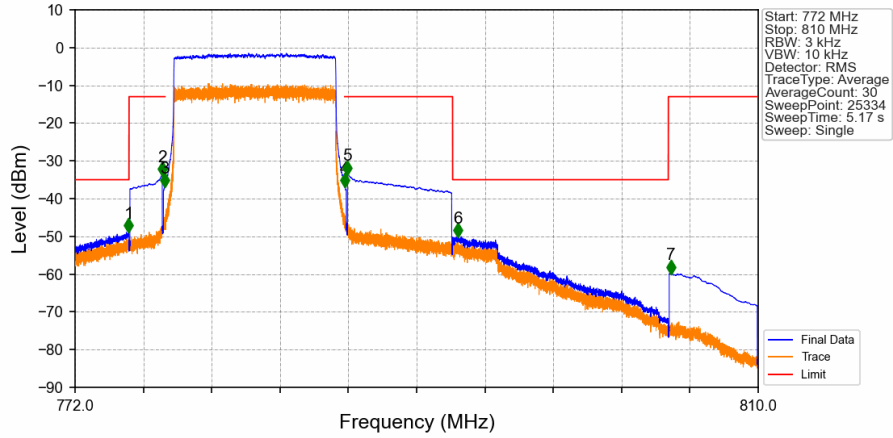
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.051	-69.04	-13	Pass
763	775	0.00625	CHP	2	774.928	-48.70	-35	Pass
775	776.9	0.1	CHP	3	776.850	-33.75	-13	Pass
776.9	777	0.03	CHP	4	776.994	-36.43	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.002	-36.95	-13	Pass
787.1	792	0.1	CHP	6	787.150	-33.22	-13	Pass

Band13 10MHz QPSK HCH 782MHz RB 1 49 NTN



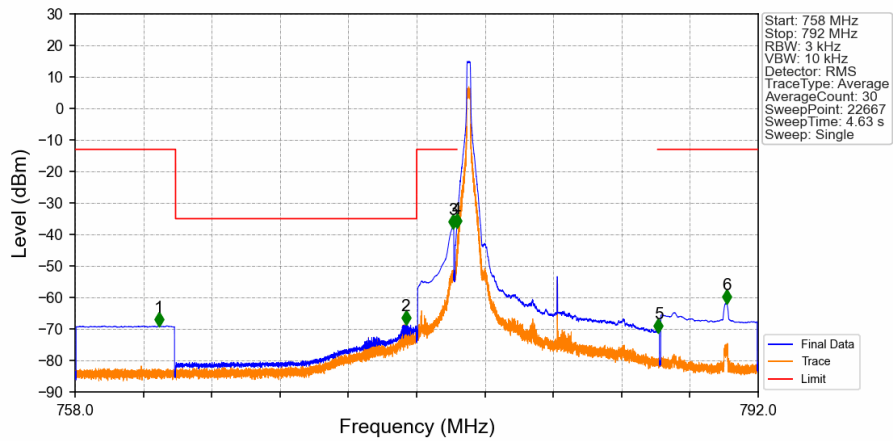
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	773.694	-73.93	-35	Pass
775	776.9	0.1	CHP	2	776.194	-64.68	-13	Pass
776.9	777	0.03	CHP	3	776.916	-71.00	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-37.93	-13	Pass
787.1	793	0.1	CHP	5	787.173	-37.20	-13	Pass
793	805	0.00625	CHP	6	794.094	-74.29	-35	Pass
805	810	0.1	CHP	7	805.680	-68.56	-13	Pass

Band13 10MHz QPSK HCH 782MHz RB 50 0 NTNV



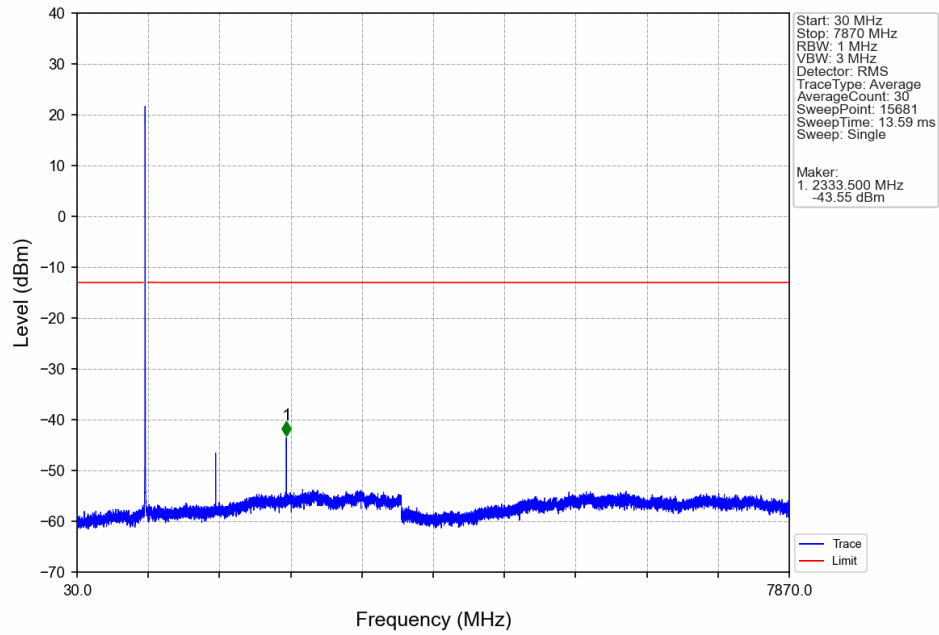
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.987	-48.59	-35	Pass
775	776.9	0.1	CHP	2	776.850	-33.64	-13	Pass
776.9	777	0.03	CHP	3	776.980	-36.72	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.002	-36.63	-13	Pass
787.1	793	0.1	CHP	5	787.150	-33.36	-13	Pass
793	805	0.00625	CHP	6	793.272	-49.99	-35	Pass
805	810	0.1	CHP	7	805.149	-59.65	-13	Pass

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

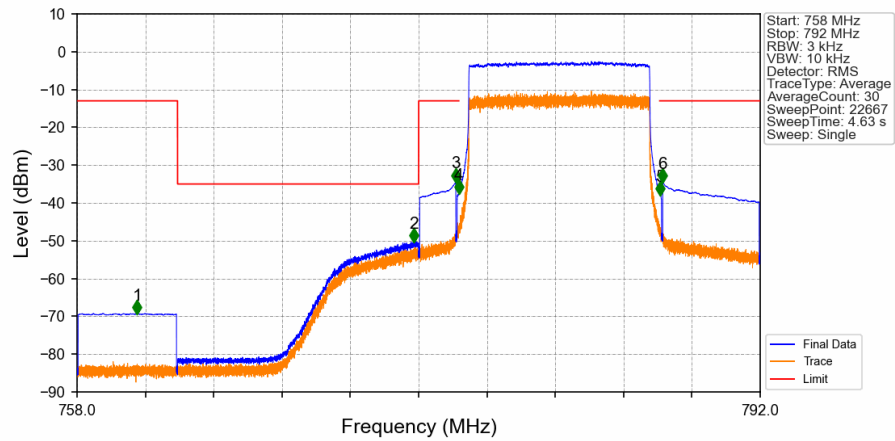


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.179	-68.91	-13	Pass
763	775	0.00625	CHP	2	774.458	-68.28	-35	Pass
775	776.9	0.1	CHP	3	776.799	-37.89	-13	Pass
776.9	777	0.03	CHP	4	777.000	-37.59	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.033	-70.85	-13	Pass
787.1	792	0.1	CHP	6	790.428	-61.70	-13	Pass

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

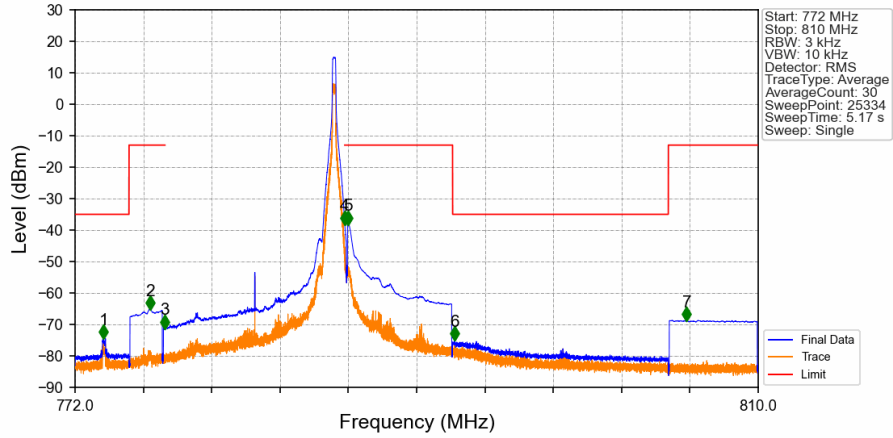


Band13 10MHz 16QAM LCH 782MHz RB 50 0 NTNV



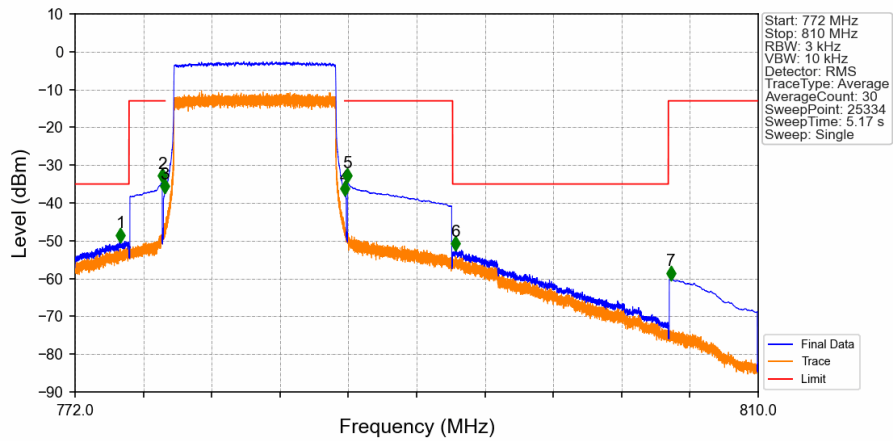
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.988	-69.13	-13	Pass
763	775	0.00625	CHP	2	774.775	-50.19	-35	Pass
775	776.9	0.1	CHP	3	776.850	-34.27	-13	Pass
776.9	777	0.03	CHP	4	776.997	-37.38	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.000	-37.82	-13	Pass
787.1	792	0.1	CHP	6	787.150	-34.36	-13	Pass

Band13_10MHz_16QAM_HCH_782MHz_RB_1_49_NTNV



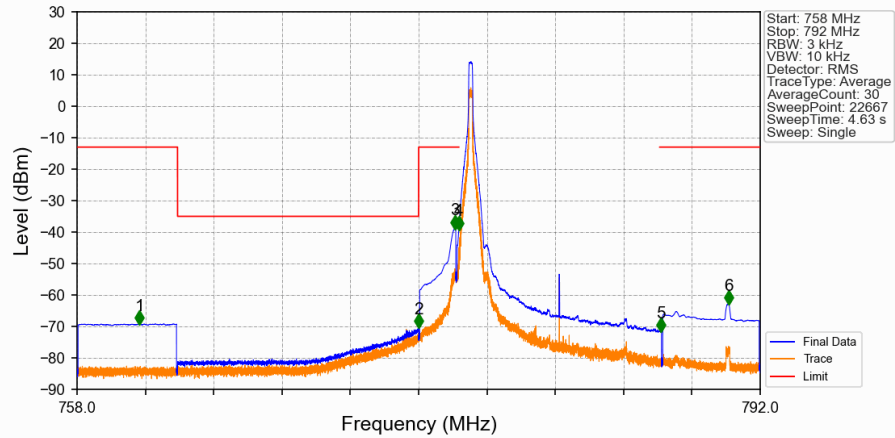
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	773.584	-74.24	-35	Pass
775	776.9	0.1	CHP	2	776.187	-65.08	-13	Pass
776.9	777	0.03	CHP	3	776.986	-71.01	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-37.95	-13	Pass
787.1	793	0.1	CHP	5	787.182	-37.99	-13	Pass
793	805	0.00625	CHP	6	793.107	-74.76	-35	Pass
805	810	0.1	CHP	7	806.023	-68.69	-13	Pass

Band13_10MHz_16QAM_HCH_782MHz_RB_50_0_NTNV



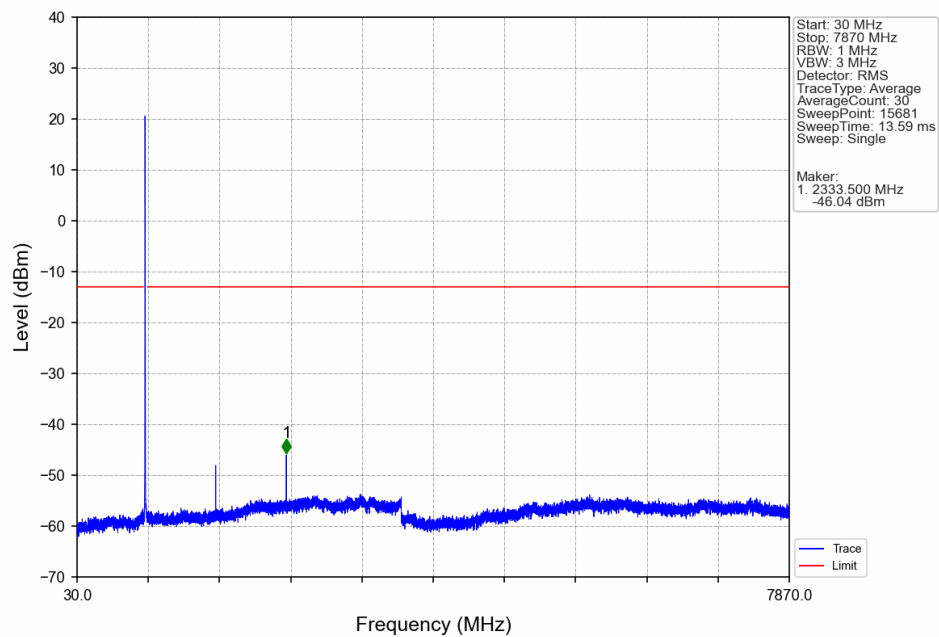
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.522	-50.06	-35	Pass
775	776.9	0.1	CHP	2	776.850	-34.32	-13	Pass
776.9	777	0.03	CHP	3	776.992	-37.07	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-37.72	-13	Pass
787.1	793	0.1	CHP	5	787.150	-34.21	-13	Pass
793	805	0.00625	CHP	6	793.150	-52.35	-35	Pass
805	810	0.1	CHP	7	805.150	-60.09	-13	Pass

Band13 10MHz 64QAM LCH 782MHz RB 1 0 NTN

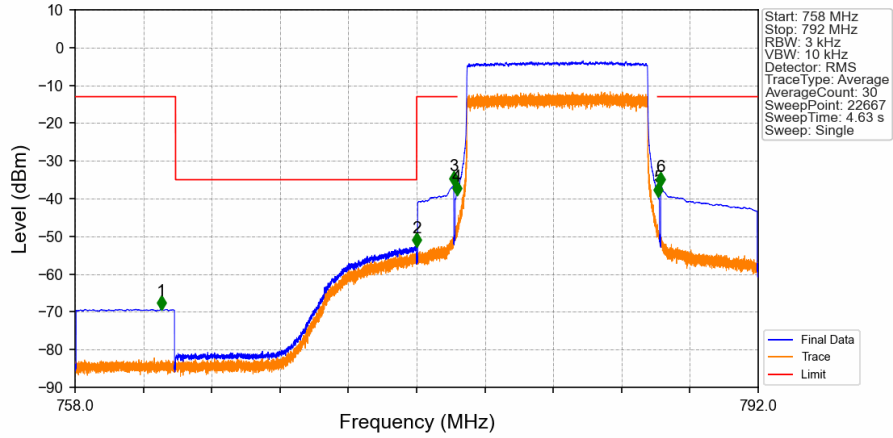


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.099	-69.13	-13	Pass
763	775	0.00625	CHP	2	774.994	-70.20	-35	Pass
775	776.9	0.1	CHP	3	776.811	-38.74	-13	Pass
776.9	777	0.03	CHP	4	777.000	-39.02	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.063	-71.37	-13	Pass
787.1	792	0.1	CHP	6	790.428	-62.72	-13	Pass

Band13 10MHz 64QAM LCH 782MHz RB 1 0 NTN

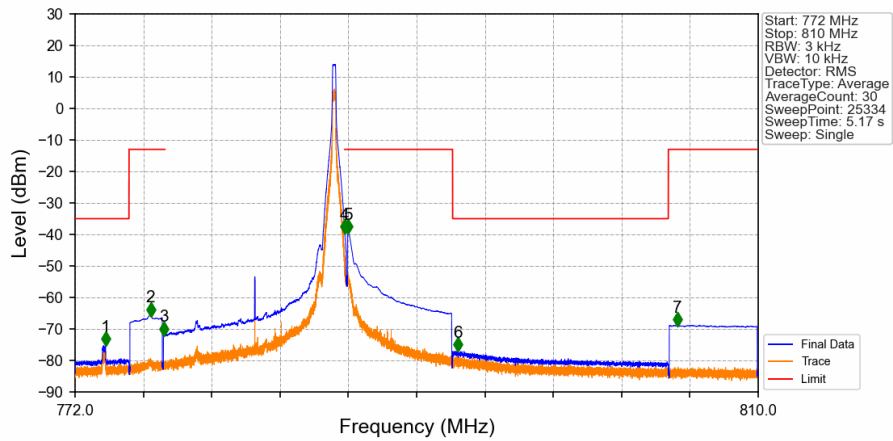


Band13 10MHz 64QAM LCH 782MHz RB 50 0 NTNV



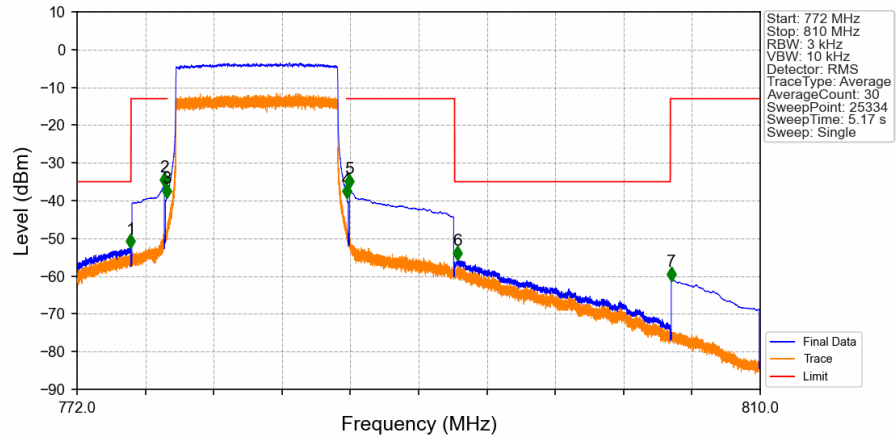
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.301	-69.20	-13	Pass
763	775	0.00625	CHP	2	774.988	-52.56	-35	Pass
775	776.9	0.1	CHP	3	776.850	-36.19	-13	Pass
776.9	777	0.03	CHP	4	776.995	-38.78	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.000	-39.16	-13	Pass
787.1	792	0.1	CHP	6	787.150	-36.37	-13	Pass

Band13 10MHz 64QAM 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	773.692	-75.10	-35	Pass
775	776.9	0.1	CHP	2	776.206	-65.68	-13	Pass
776.9	777	0.03	CHP	3	776.931	-71.78	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-39.32	-13	Pass
787.1	793	0.1	CHP	5	787.197	-39.40	-13	Pass
793	805	0.00625	CHP	6	793.288	-76.87	-35	Pass
805	810	0.1	CHP	7	805.513	-68.82	-13	Pass

Band13 10MHz 64QAM 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	774.970	-52.34	-35	Pass
775	776.9	0.1	CHP	2	776.850	-35.94	-13	Pass
776.9	777	0.03	CHP	3	776.998	-38.92	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-38.98	-13	Pass
787.1	793	0.1	CHP	5	787.150	-36.35	-13	Pass
793	805	0.00625	CHP	6	793.167	-55.40	-35	Pass
805	810	0.1	CHP	7	805.051	-60.92	-13	Pass

6. Field Strength of Spurious Radiation

LTE Band 13 ANT0-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1555.0	-68.85	-13	-55.85	-71.99	2.6	5.74	Horizontal	Pass
2332.5	-69.66	-13	-56.66	-72.12	2.96	5.42	Horizontal	Pass
3110.0	-67.34	-13	-54.34	-71.34	3.2	7.2	Horizontal	Pass
1555.0	-68.7	-13	-55.7	-71.84	2.6	5.74	Vertical	Pass
2332.5	-69.6	-13	-56.6	-72.06	2.96	5.42	Vertical	Pass
3110.0	-67.48	-13	-54.48	-71.48	3.2	7.2	Vertical	Pass

LTE Band 13 ANT0-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1554.5	-71.11	-13	-58.11	-74.25	2.6	5.74	Horizontal	Pass
2331.75	-69.69	-13	-56.69	-72.15	2.96	5.42	Horizontal	Pass
3109.0	-67.75	-13	-54.75	-71.74	3.2	7.19	Horizontal	Pass
1554.5	-70.11	-13	-57.11	-73.25	2.6	5.74	Vertical	Pass
2331.75	-70.0	-13	-57.0	-72.46	2.96	5.42	Vertical	Pass
3109.0	-67.57	-13	-54.57	-71.56	3.2	7.19	Vertical	Pass

LTE Band 13 ANT0-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1559.5	-69.5	-40	-29.5	-72.63	2.6	5.73	Horizontal	Pass
2339.25	-69.91	-13	-56.91	-72.38	2.96	5.43	Horizontal	Pass
3119.0	-67.35	-13	-54.35	-71.36	3.21	7.22	Horizontal	Pass
1559.5	-70.18	-40	-30.18	-73.31	2.6	5.73	Vertical	Pass
2339.25	-69.49	-13	-56.49	-71.96	2.96	5.43	Vertical	Pass
3119.0	-67.15	-13	-54.15	-71.16	3.21	7.22	Vertical	Pass

LTE Band 13 ANT0-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1564.5	-70.92	-40	-30.92	-74.04	2.6	5.72	Horizontal	Pass
2346.75	-70.0	-13	-57.0	-72.48	2.97	5.45	Horizontal	Pass
3129.0	-67.95	-13	-54.95	-71.98	3.21	7.24	Horizontal	Pass
1564.5	-70.09	-40	-30.09	-73.21	2.6	5.72	Vertical	Pass
2346.75	-70.44	-13	-57.44	-72.92	2.97	5.45	Vertical	Pass
3129.0	-67.87	-13	-54.87	-71.9	3.21	7.24	Vertical	Pass