1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B13_5MHz_ERP

Band: 13 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	779.5	1	0	23.81	-3.20	18.46	<=34.77	Pass
			13	23.75	-3.20	18.40	<=34.77	Pass
			24	23.76	-3.20	18.41	<=34.77	Pass
		12	0	22.79	-3.20	17.44	<=34.77	Pass
			6	22.75	-3.20	17.40	<=34.77	Pass
			13	22.76	-3.20	17.41	<=34.77	Pass
		25	0	22.76	-3.20	17.41	<=34.77	Pass
	782	1	0	23.72	-3.20	18.37	<=34.77	Pass
			13	23.56	-3.20	18.21	<=34.77	Pass
			24	23.60	-3.20	18.25	<=34.77	Pass
		12	0	22.78	-3.20	17.43	<=34.77	Pass
			6	22.77	-3.20	17.42	<=34.77	Pass
			13	22.68	-3.20	17.33	<=34.77	Pass
		25	0	22.80	-3.20	17.45	<=34.77	Pass
	784.5	1	0	23.85	-3.20	18.50	<=34.77	Pass
			13	23.51	-3.20	18.16	<=34.77	Pass
			24	23.52	-3.20	18.17	<=34.77	Pass
		12	0	22.76	-3.20	17.41	<=34.77	Pass
			6	22.75	-3.20	17.40	<=34.77	Pass
			13	22.75	-3.20	17.40	<=34.77	Pass
		25	0	22.73	-3.20	17.38	<=34.77	Pass
16QAM	779.5	1	0	22.66	-3.20	17.31	<=34.77	Pass
			13	22.57	-3.20	17.22	<=34.77	Pass
			24	22.93	-3.20	17.58	<=34.77	Pass
		12	0	21.84	-3.20	16.49	<=34.77	Pass
			6	21.75	-3.20	16.40	<=34.77	Pass
			13	21.74	-3.20	16.39	<=34.77	Pass
		25	0	21.76	-3.20	16.41	<=34.77	Pass
	782	1	0	22.68	-3.20	17.33	<=34.77	Pass
			13	22.68	-3.20	17.33	<=34.77	Pass
			24	22.84	-3.20	17.49	<=34.77	Pass
		12	0	21.80	-3.20	16.45	<=34.77	Pass
			6	21.78	-3.20	16.43	<=34.77	Pass
			13	21.64	-3.20	16.29	<=34.77	Pass
		25	0	21.65	-3.20	16.30	<=34.77	Pass
	784.5	1	0	22.77	-3.20	17.42	<=34.77	Pass
			13	22.72	-3.20	17.37	<=34.77	Pass
			24	22.80	-3.20	17.45	<=34.77	Pass
		12	0	21.71	-3.20	16.36	<=34.77	Pass
			6	21.25	-3.20	15.90	<=34.77	Pass
			13	21.68	-3.20	16.33	<=34.77	Pass
		25	0	21.74	-3.20	16.39	<=34.77	Pass
64QAM	779.5	1	0	21.65	-3.20	16.30	<=34.77	Pass
			13	21.90	-3.20	16.55	<=34.77	Pass
			24	21.74	-3.20	16.39	<=34.77	Pass
		12	0	20.80	-3.20	15.45	<=34.77	Pass
			6	20.77	-3.20	15.42	<=34.77	Pass
			13	20.76	-3.20	15.41	<=34.77	Pass
		25	0	20.73	-3.20	15.38	<=34.77	Pass

	782	1	0	21.89	-3.20	16.54	<=34.77	Pass
			13	21.79	-3.20	16.44	<=34.77	Pass
			24	21.73	-3.20	16.38	<=34.77	Pass
		12	0	20.79	-3.20	15.44	<=34.77	Pass
			6	20.76	-3.20	15.41	<=34.77	Pass
			13	20.69	-3.20	15.34	<=34.77	Pass
		25	0	20.76	-3.20	15.41	<=34.77	Pass
	784.5	1	0	20.90	-3.20	15.55	<=34.77	Pass
			13	21.34	-3.20	15.99	<=34.77	Pass
			24	21.86	-3.20	16.51	<=34.77	Pass
		12	0	20.71	-3.20	15.36	<=34.77	Pass
			6	20.72	-3.20	15.37	<=34.77	Pass
			13	20.72	-3.20	15.37	<=34.77	Pass
		25	0	20.72	-3.20	15.37	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B13_10MHz_ERP

Band: 13 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	782	1	0	23.88	-3.20	18.53	<=34.77	Pass
			25	23.78	-3.20	18.43	<=34.77	Pass
			49	23.74	-3.20	18.39	<=34.77	Pass
		25	0	22.74	-3.20	17.39	<=34.77	Pass
			13	22.72	-3.20	17.37	<=34.77	Pass
			25	22.71	-3.20	17.36	<=34.77	Pass
		50	0	22.73	-3.20	17.38	<=34.77	Pass
16QAM	782	1	0	22.64	-3.20	17.29	<=34.77	Pass
			25	22.32	-3.20	16.97	<=34.77	Pass
			49	22.88	-3.20	17.53	<=34.77	Pass
		25	0	21.73	-3.20	16.38	<=34.77	Pass
			13	21.59	-3.20	16.24	<=34.77	Pass
			25	21.63	-3.20	16.28	<=34.77	Pass
		50	0	21.71	-3.20	16.36	<=34.77	Pass
64QAM	782	1	0	21.34	-3.20	15.99	<=34.77	Pass
			25	21.39	-3.20	16.04	<=34.77	Pass
			49	21.52	-3.20	16.17	<=34.77	Pass
		25	0	20.79	-3.20	15.44	<=34.77	Pass
			13	20.67	-3.20	15.32	<=34.77	Pass
			25	20.71	-3.20	15.36	<=34.77	Pass
		50	0	20.75	-3.20	15.40	<=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	3.3	-9.100	-0.0117	-2.5 to 2.5	Pass
					3.92	-6.000	-0.0077	-2.5 to 2.5	Pass
					4.53	0.000	0.0000	-2.5 to 2.5	Pass
				-30	3.92	-0.700	-0.0009	-2.5 to 2.5	Pass
				-20	3.92	-0.700	-0.0009	-2.5 to 2.5	Pass
				-10	3.92	1.100	0.0014	-2.5 to 2.5	Pass
				0	3.92	1.100	0.0014	-2.5 to 2.5	Pass
				10	3.92	-1.600	-0.0021	-2.5 to 2.5	Pass
				30	3.92	-1.500	-0.0019	-2.5 to 2.5	Pass
				40	3.92	-1.400	-0.0018	-2.5 to 2.5	Pass
				50	3.92	-2.100	-0.0027	-2.5 to 2.5	Pass
	782	25	0	20	3.3	-2.100	-0.0027	-2.5 to 2.5	Pass
					3.92	-3.200	-0.0041	-2.5 to 2.5	Pass
					4.53	-4.100	-0.0052	-2.5 to 2.5	Pass
				-30	3.92	0.400	0.0005	-2.5 to 2.5	Pass
				-20	3.92	1.800	0.0023	-2.5 to 2.5	Pass
				-10	3.92	1.100	0.0014	-2.5 to 2.5	Pass
				0	3.92	-1.700	-0.0022	-2.5 to 2.5	Pass
				10	3.92	-3.000	-0.0038	-2.5 to 2.5	Pass
				30	3.92	-2.800	-0.0036	-2.5 to 2.5	Pass
				40	3.92	1.900	0.0024	-2.5 to 2.5	Pass
				50	3.92	1.400	0.0018	-2.5 to 2.5	Pass
	784.5	25	0	20	3.3	-0.800	-0.0010	-2.5 to 2.5	Pass
					3.92	-5.600	-0.0071	-2.5 to 2.5	Pass
					4.53	-5.600	-0.0071	-2.5 to 2.5	Pass
				-30	3.92	-0.500	-0.0006	-2.5 to 2.5	Pass
				-20	3.92	-0.400	-0.0005	-2.5 to 2.5	Pass
				-10	3.92	0.500	0.0006	-2.5 to 2.5	Pass
				0	3.92	-0.700	-0.0009	-2.5 to 2.5	Pass
				10	3.92	-1.200	-0.0015	-2.5 to 2.5	Pass
				30	3.92	-4.000	-0.0051	-2.5 to 2.5	Pass
				40	3.92	-3.800	-0.0048	-2.5 to 2.5	Pass
				50	3.92	0.100	0.0001	-2.5 to 2.5	Pass
16QAM	779.5	25	0	20	3.3	-1.500	-0.0019	-2.5 to 2.5	Pass
					3.92	-0.600	-0.0008	-2.5 to 2.5	Pass
					4.53	2.400	0.0031	-2.5 to 2.5	Pass
				-30	3.92	2.900	0.0037	-2.5 to 2.5	Pass
				-20	3.92	-1.300	-0.0017	-2.5 to 2.5	Pass
				-10	3.92	-1.100	-0.0014	-2.5 to 2.5	Pass
				0	3.92	-1.400	-0.0018	-2.5 to 2.5	Pass
				10	3.92	-1.800	-0.0023	-2.5 to 2.5	Pass
				30	3.92	-1.500	-0.0019	-2.5 to 2.5	Pass
				40	3.92	-1.900	-0.0024	-2.5 to 2.5	Pass
				50	3.92	-1.000	-0.0013	-2.5 to 2.5	Pass
	782	25	0	20	3.3	1.000	0.0013	-2.5 to 2.5	Pass
					3.92	-1.600	-0.0020	-2.5 to 2.5	Pass
					4.53	-0.700	-0.0009	-2.5 to 2.5	Pass

				-30	3.92	-1.300	-0.0017	-2.5 to 2.5	Pass
				-20	3.92	-2.000	-0.0026	-2.5 to 2.5	Pass
				-10	3.92	-2.400	-0.0031	-2.5 to 2.5	Pass
				0	3.92	-2.200	-0.0028	-2.5 to 2.5	Pass
				10	3.92	-1.500	-0.0019	-2.5 to 2.5	Pass
				30	3.92	-3.300	-0.0042	-2.5 to 2.5	Pass
				40	3.92	2.600	0.0033	-2.5 to 2.5	Pass
				50	3.92	1.700	0.0022	-2.5 to 2.5	Pass
	784.5	25	0	20	3.3	0.300	0.0004	-2.5 to 2.5	Pass
					3.92	2.400	0.0031	-2.5 to 2.5	Pass
					4.53	1.500	0.0019	-2.5 to 2.5	Pass
				-30	3.92	-1.900	-0.0024	-2.5 to 2.5	Pass
				-20	3.92	-1.800	-0.0023	-2.5 to 2.5	Pass
				-10	3.92	-1.600	-0.0020	-2.5 to 2.5	Pass
				0	3.92	-2.200	-0.0028	-2.5 to 2.5	Pass
				10	3.92	-3.500	-0.0045	-2.5 to 2.5	Pass
				30	3.92	-2.100	-0.0027	-2.5 to 2.5	Pass
				40	3.92	-2.500	-0.0032	-2.5 to 2.5	Pass
				50	3.92	1.500	0.0019	-2.5 to 2.5	Pass
64QAM	779.5	25	0	20	3.3	-2.600	-0.0033	-2.5 to 2.5	Pass
					3.92	1.200	0.0015	-2.5 to 2.5	Pass
					4.53	-1.400	-0.0018	-2.5 to 2.5	Pass
				-30	3.92	-0.400	-0.0005	-2.5 to 2.5	Pass
				-20	3.92	-1.700	-0.0022	-2.5 to 2.5	Pass
				-10	3.92	-4.600	-0.0059	-2.5 to 2.5	Pass
				0	3.92	-4.200	-0.0054	-2.5 to 2.5	Pass
				10	3.92	-3.000	-0.0038	-2.5 to 2.5	Pass
				30	3.92	-1.900	-0.0024	-2.5 to 2.5	Pass
				40	3.92	2.200	0.0028	-2.5 to 2.5	Pass
				50	3.92	0.200	0.0003	-2.5 to 2.5	Pass
	782	25	0	20	3.3	1.600	0.0020	-2.5 to 2.5	Pass
					3.92	-0.800	-0.0010	-2.5 to 2.5	Pass
					4.53	-0.300	-0.0004	-2.5 to 2.5	Pass
				-30	3.92	0.000	0.0000	-2.5 to 2.5	Pass
				-20	3.92	3.700	0.0047	-2.5 to 2.5	Pass
				-10	3.92	3.800	0.0049	-2.5 to 2.5	Pass
				0	3.92	4.400	0.0056	-2.5 to 2.5	Pass
				10	3.92	2.800	0.0036	-2.5 to 2.5	Pass
				30	3.92	-0.500	-0.0006	-2.5 to 2.5	Pass
				40	3.92	-0.500	-0.0006	-2.5 to 2.5	Pass
				50	3.92	-0.800	-0.0010	-2.5 to 2.5	Pass
	784.5	25	0	20	3.3	-1.900	-0.0024	-2.5 to 2.5	Pass
					3.92	1.300	0.0017	-2.5 to 2.5	Pass
					4.53	0.000	0.0000	-2.5 to 2.5	Pass
				-30	3.92	-0.100	-0.0001	-2.5 to 2.5	Pass
				-20	3.92	1.200	0.0015	-2.5 to 2.5	Pass
				-10	3.92	-0.100	-0.0001	-2.5 to 2.5	Pass
				0	3.92	-0.100	-0.0001	-2.5 to 2.5	Pass
				10	3.92	-0.100	-0.0001	-2.5 to 2.5	Pass
				30	3.92	-1.900	-0.0024	-2.5 to 2.5	Pass
				40	3.92	1.400	0.0018	-2.5 to 2.5	Pass
				50	3.92	1.800	0.0023	-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	3.3	0.900	0.0012	-2.5 to 2.5	Pass
					3.92	-2.800	-0.0036	-2.5 to 2.5	Pass
					4.53	-3.500	-0.0045	-2.5 to 2.5	Pass
				-30	3.92	1.800	0.0023	-2.5 to 2.5	Pass
				-20	3.92	-0.900	-0.0012	-2.5 to 2.5	Pass
				-10	3.92	-1.100	-0.0014	-2.5 to 2.5	Pass
				0	3.92	-0.700	-0.0009	-2.5 to 2.5	Pass
				10	3.92	0.300	0.0004	-2.5 to 2.5	Pass
				30	3.92	-0.100	-0.0001	-2.5 to 2.5	Pass
				40	3.92	0.200	0.0003	-2.5 to 2.5	Pass
				50	3.92	0.800	0.0010	-2.5 to 2.5	Pass
16QAM	782	50	0	20	3.3	-0.100	-0.0001	-2.5 to 2.5	Pass
					3.92	1.300	0.0017	-2.5 to 2.5	Pass
					4.53	-1.900	-0.0024	-2.5 to 2.5	Pass
				-30	3.92	-2.400	-0.0031	-2.5 to 2.5	Pass
				-20	3.92	1.900	0.0024	-2.5 to 2.5	Pass
				-10	3.92	-3.600	-0.0046	-2.5 to 2.5	Pass
				0	3.92	-2.600	-0.0033	-2.5 to 2.5	Pass
				10	3.92	-2.900	-0.0037	-2.5 to 2.5	Pass
				30	3.92	1.200	0.0015	-2.5 to 2.5	Pass
				40	3.92	-3.300	-0.0042	-2.5 to 2.5	Pass
				50	3.92	0.000	0.0000	-2.5 to 2.5	Pass
64QAM	782	50	0	20	3.3	0.100	0.0001	-2.5 to 2.5	Pass
					3.92	-1.600	-0.0020	-2.5 to 2.5	Pass
					4.53	0.600	0.0008	-2.5 to 2.5	Pass
				-30	3.92	-1.200	-0.0015	-2.5 to 2.5	Pass
				-20	3.92	0.900	0.0012	-2.5 to 2.5	Pass
				-10	3.92	-1.100	-0.0014	-2.5 to 2.5	Pass
				0	3.92	1.000	0.0013	-2.5 to 2.5	Pass
				10	3.92	-1.200	-0.0015	-2.5 to 2.5	Pass
				30	3.92	-3.800	-0.0049	-2.5 to 2.5	Pass
				40	3.92	-1.400	-0.0018	-2.5 to 2.5	Pass
				50	3.92	0.500	0.0006	-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	4.545	/	Pass
		782	25	0	4.531	/	Pass
		784.5	25	0	4.540	/	Pass
	16QAM	779.5	25	0	4.534	/	Pass
		782	25	0	4.526	/	Pass
		784.5	25	0	4.522	/	Pass
	64QAM	779.5	25	0	4.536	/	Pass
		782	25	0	4.538	/	Pass
		784.5	25	0	4.552	/	Pass
10	QPSK	782	50	0	9.037	/	Pass
	16QAM	782	50	0	9.020	/	Pass
	64QAM	782	50	0	9.038	/	Pass

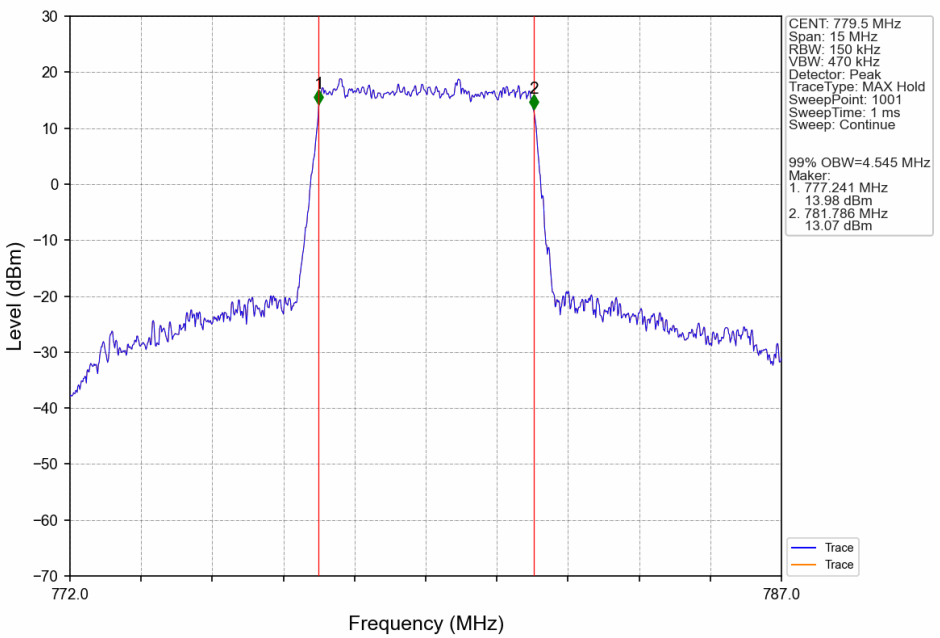
3.1.2 Band13_XDB

Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	5.014	/	Pass
		782	25	0	5.071	/	Pass
		784.5	25	0	5.053	/	Pass
	16QAM	779.5	25	0	5.035	/	Pass
		782	25	0	5.064	/	Pass
		784.5	25	0	4.990	/	Pass
	64QAM	779.5	25	0	5.050	/	Pass
		782	25	0	5.018	/	Pass
		784.5	25	0	5.039	/	Pass
10	QPSK	782	50	0	9.939	/	Pass
	16QAM	782	50	0	9.904	/	Pass
	64QAM	782	50	0	9.903	/	Pass

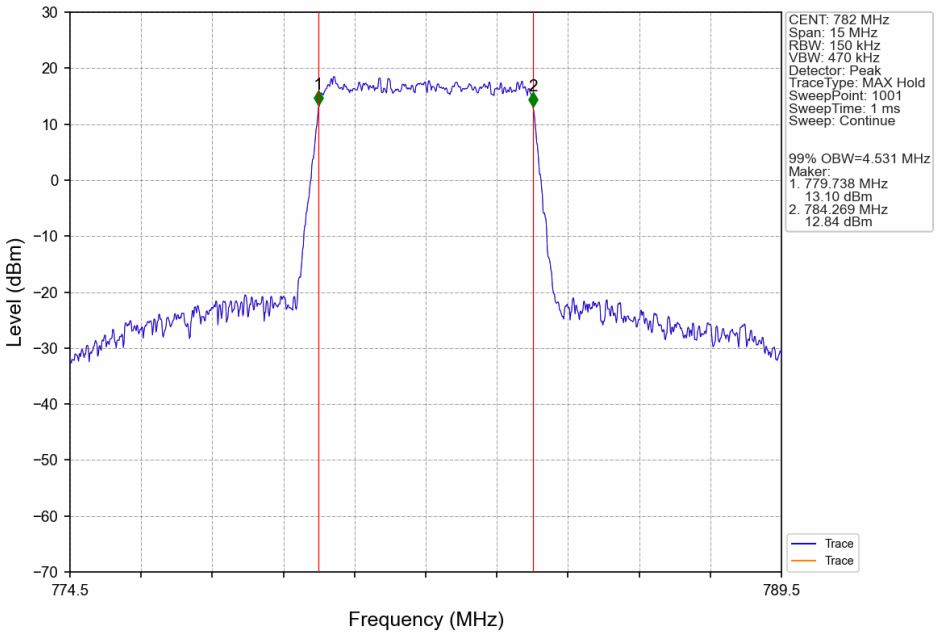
3.2 Test Graph

3.2.1 Band13_OBW

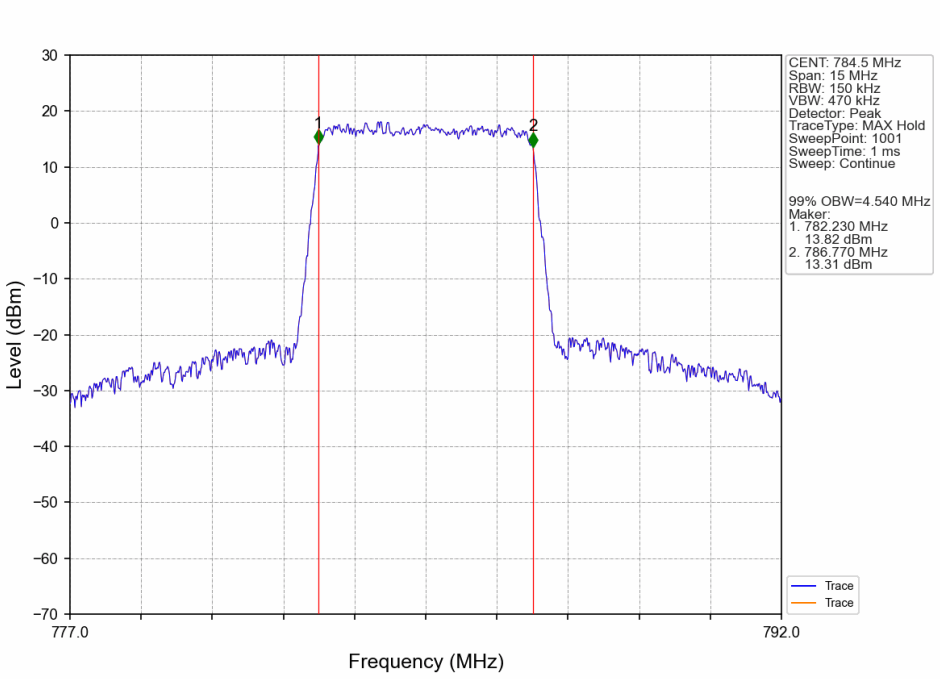
Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV



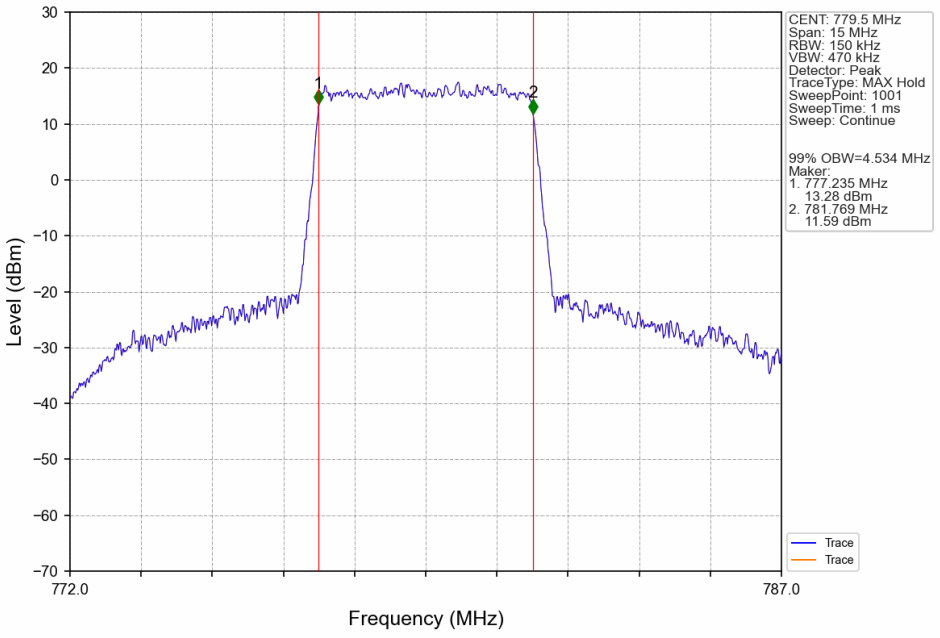
Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



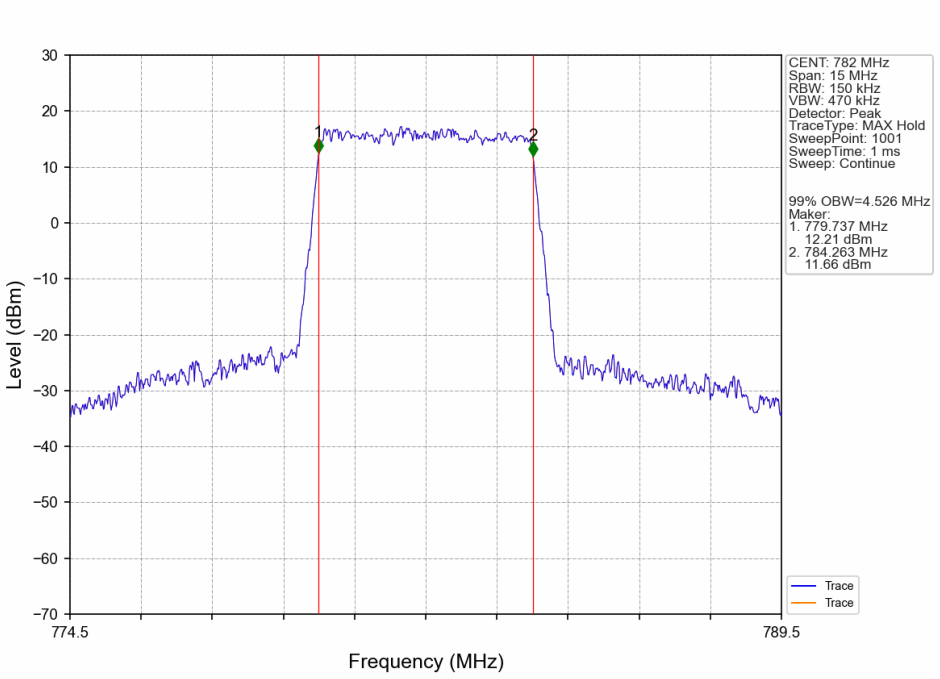
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



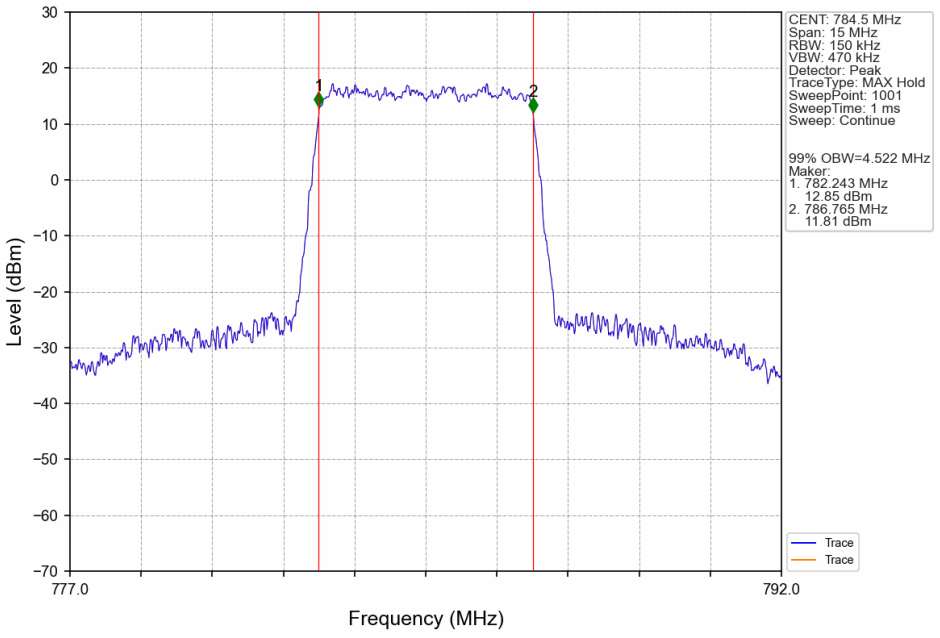
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



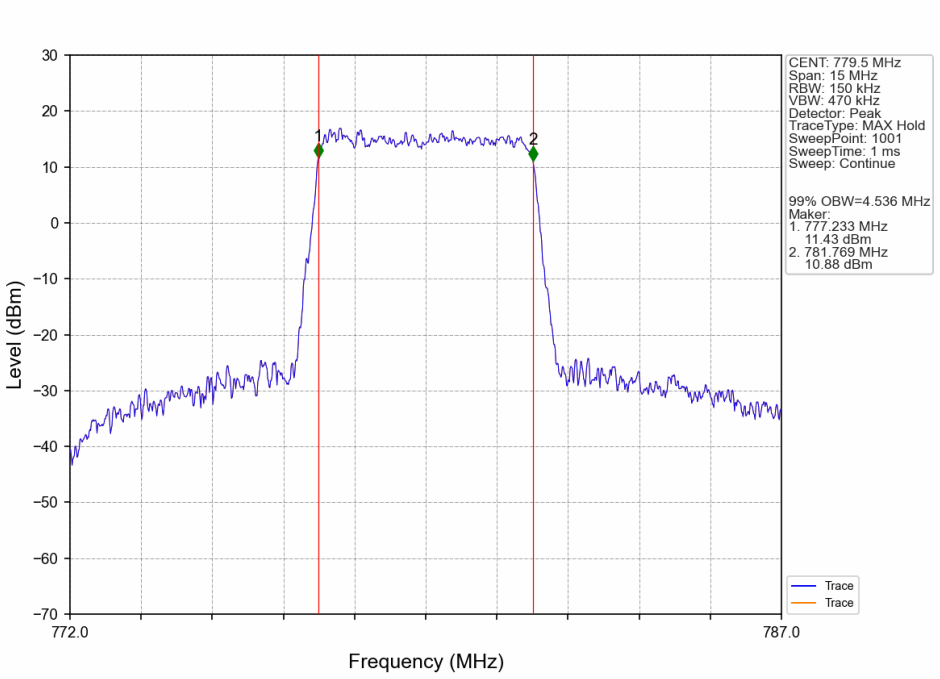
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



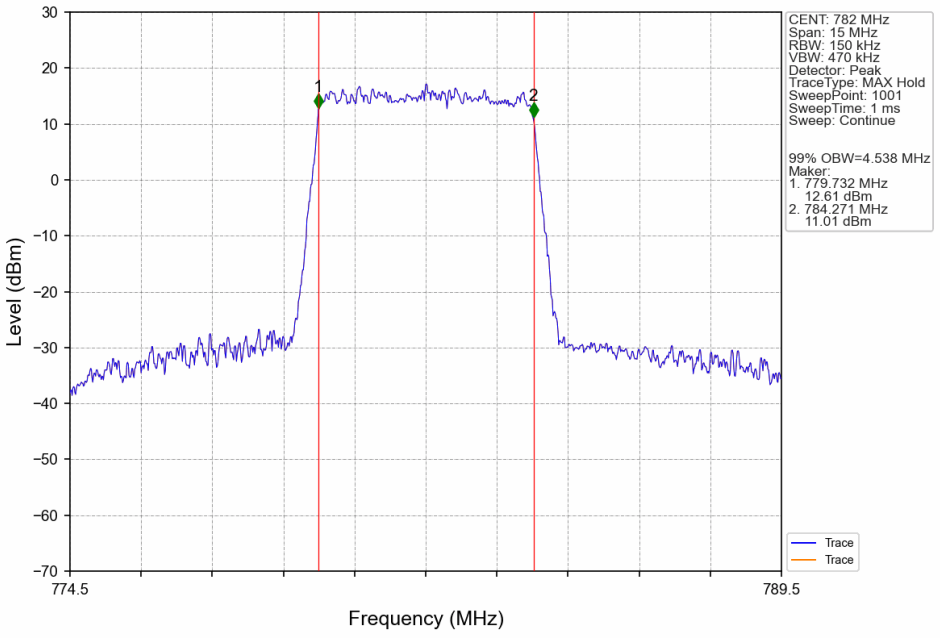
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



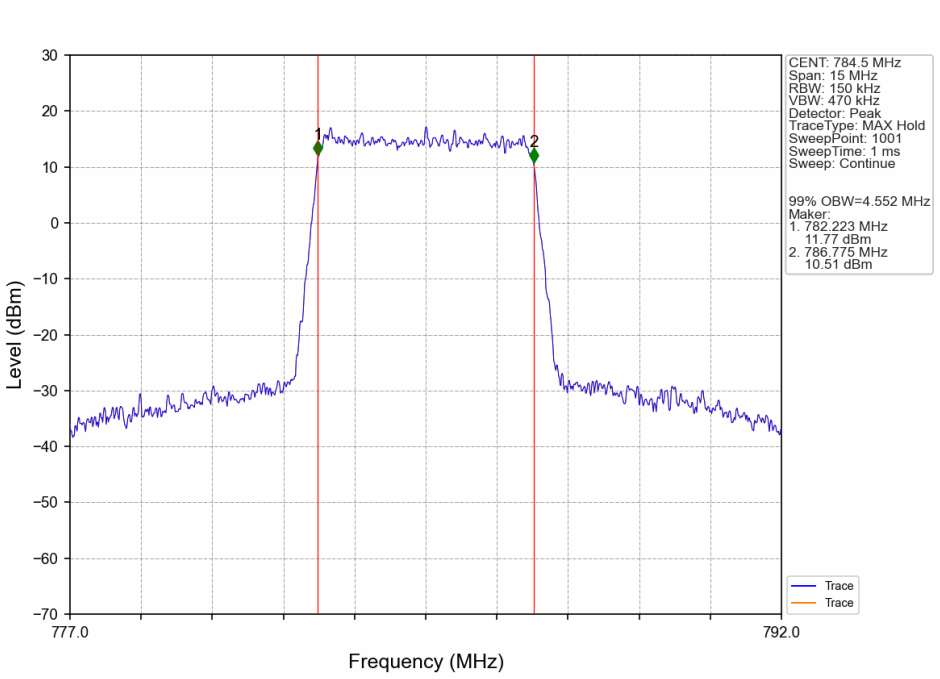
Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



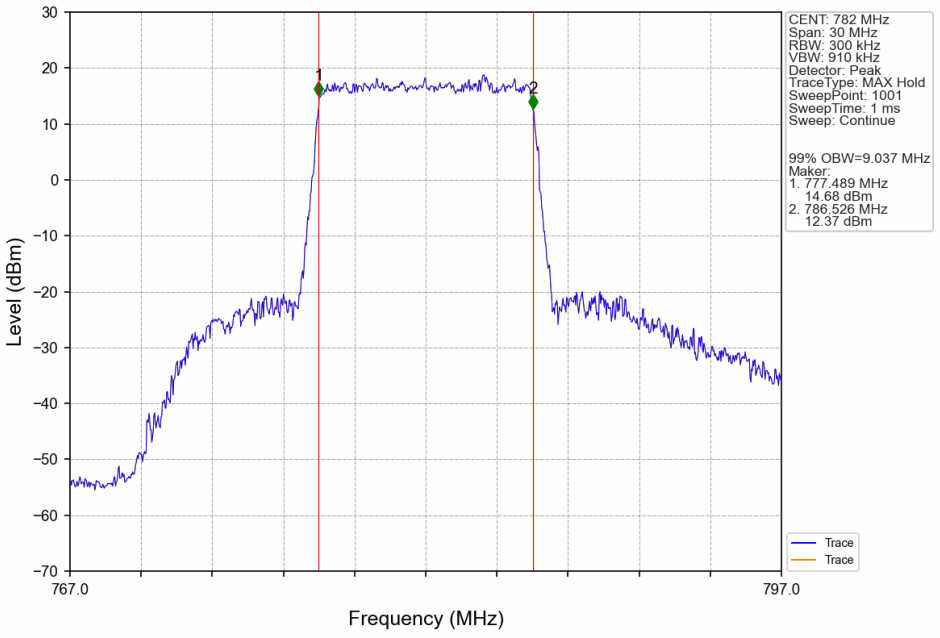
Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



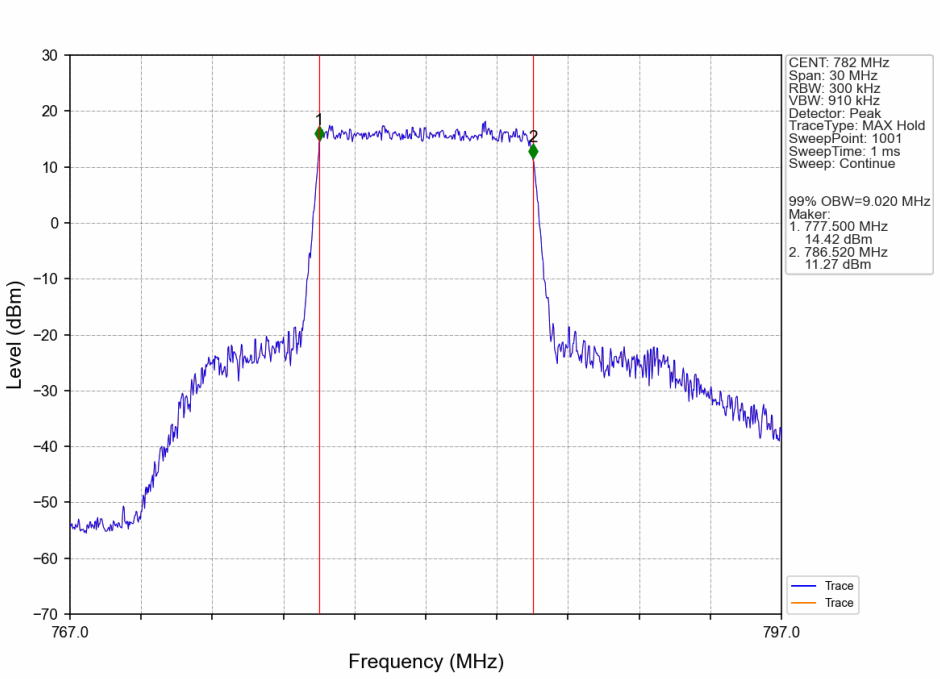
Band13_5MHz_64QAM_HCH_784.5MHz_RB_25_0_NTNV



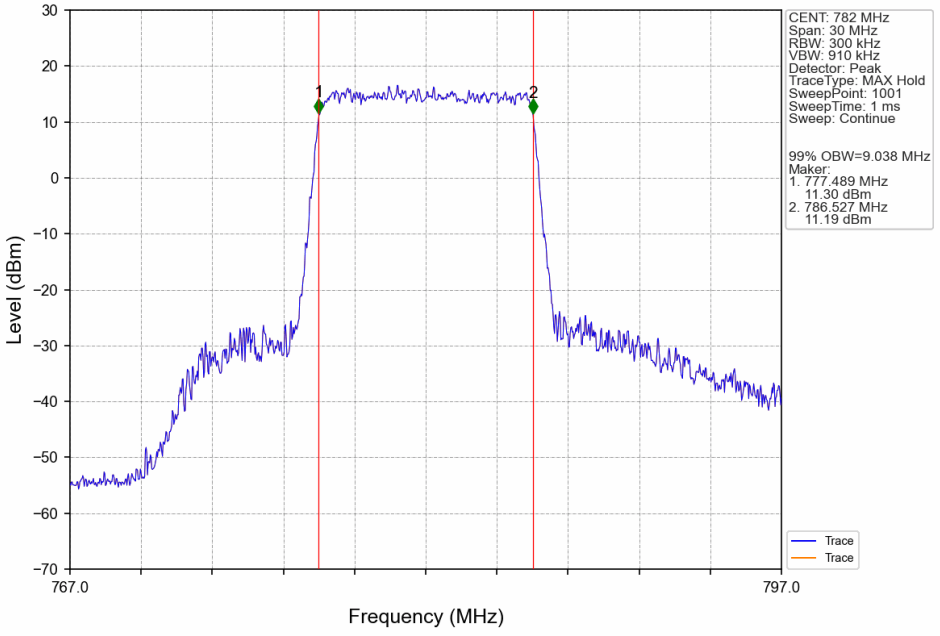
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



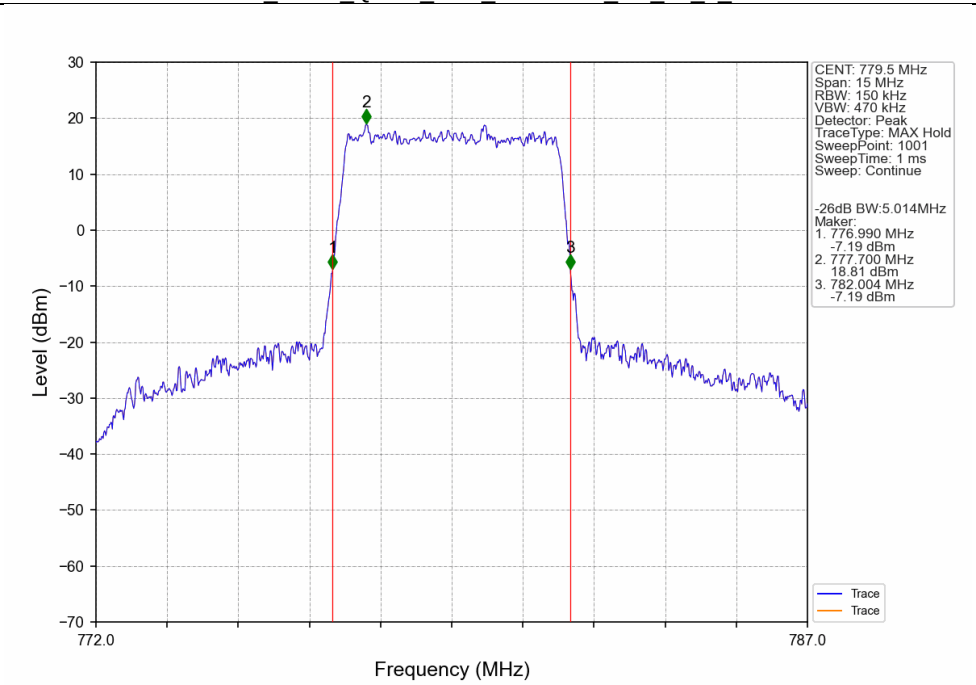
Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV

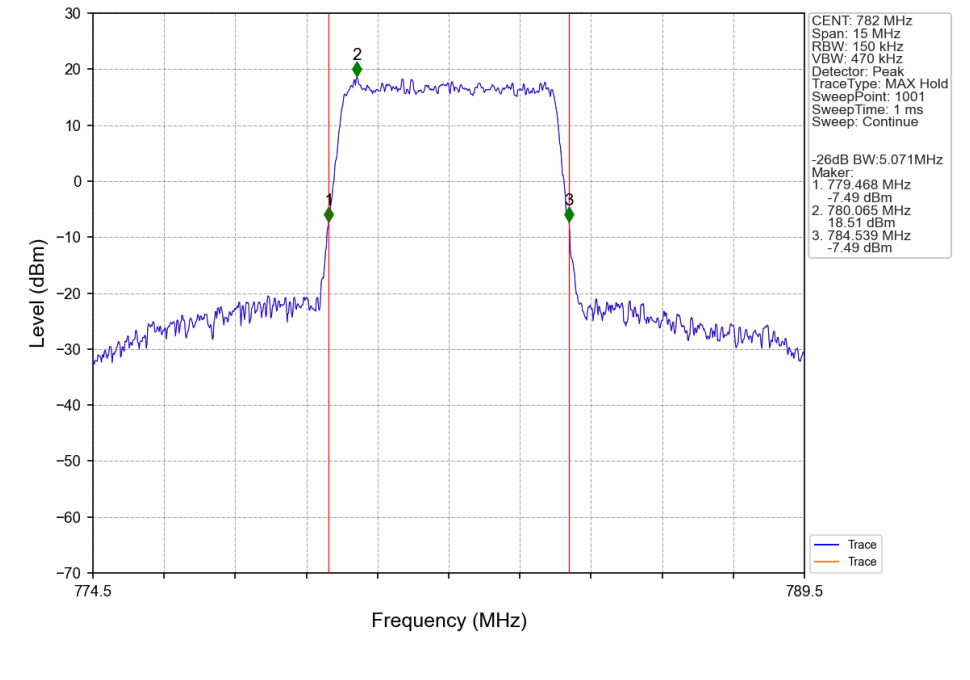


Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV

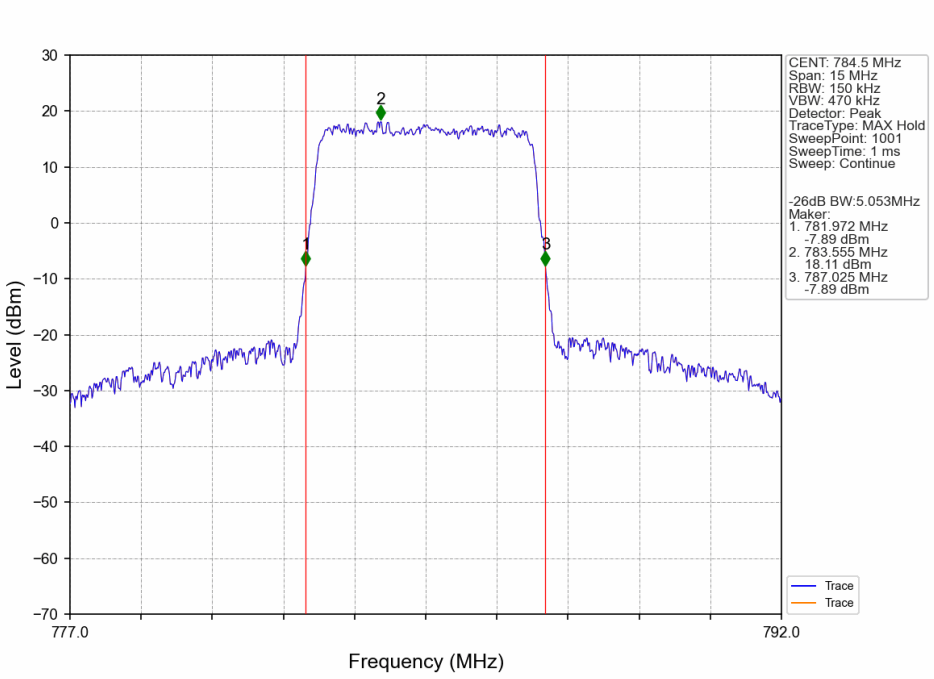


3.2.2 Band13_XDB

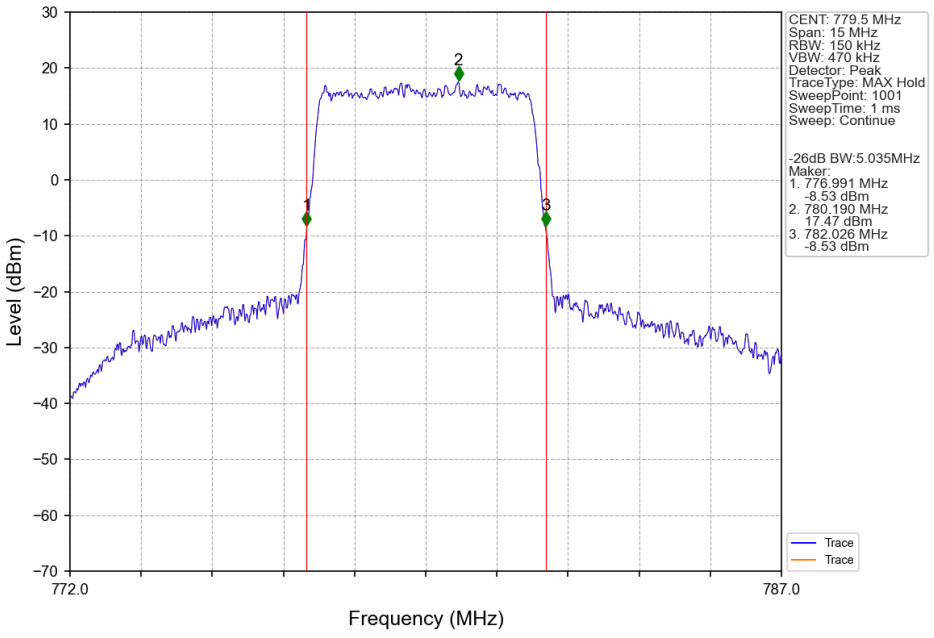
Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV


Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV


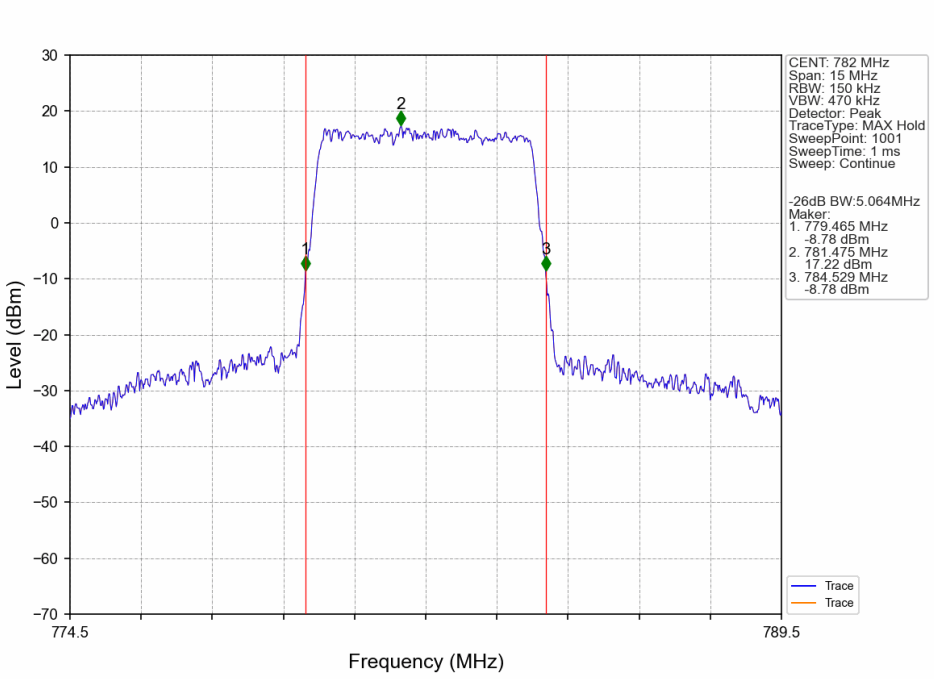
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



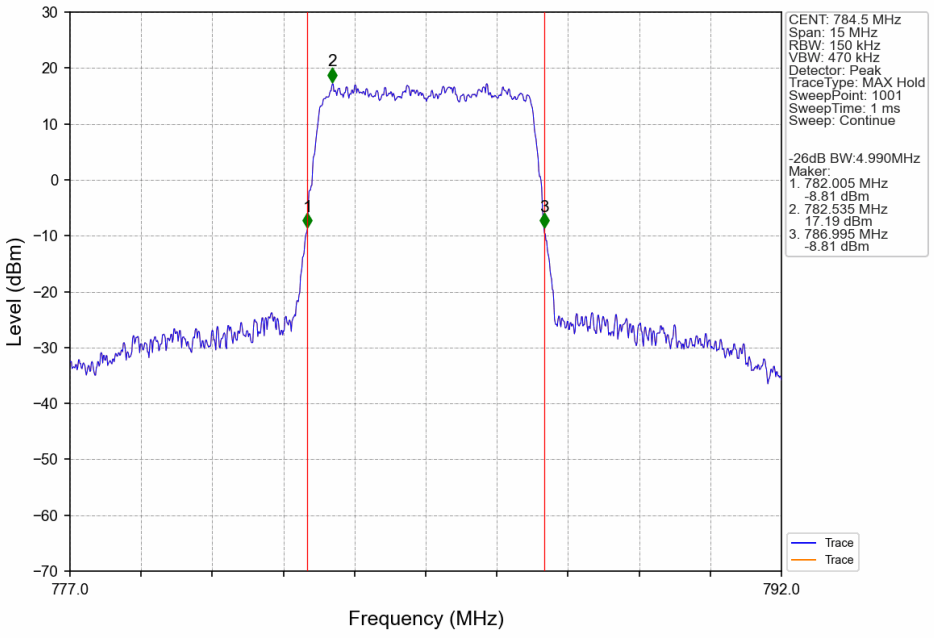
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



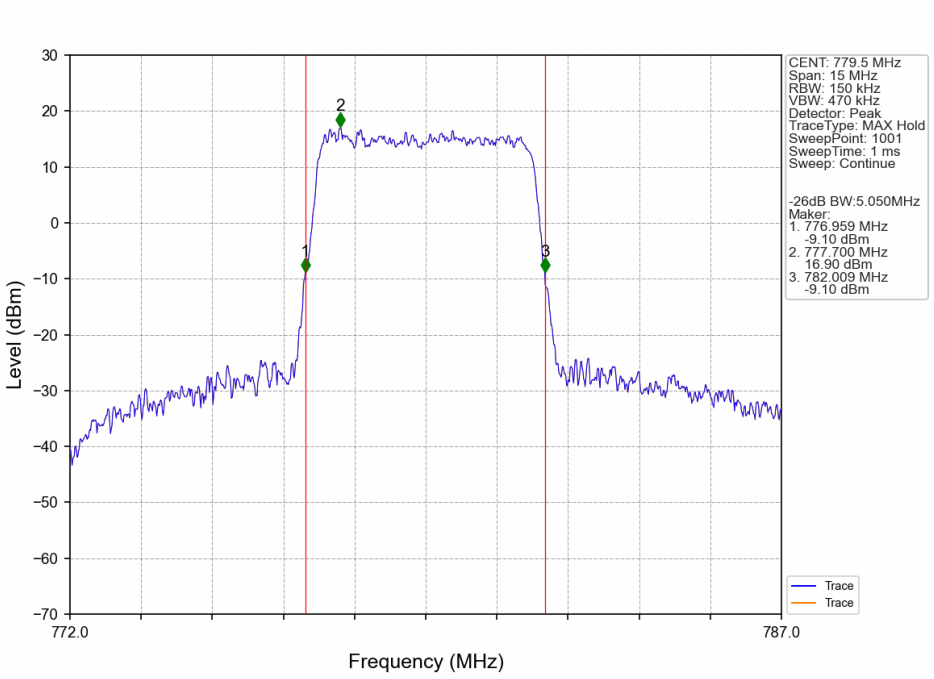
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



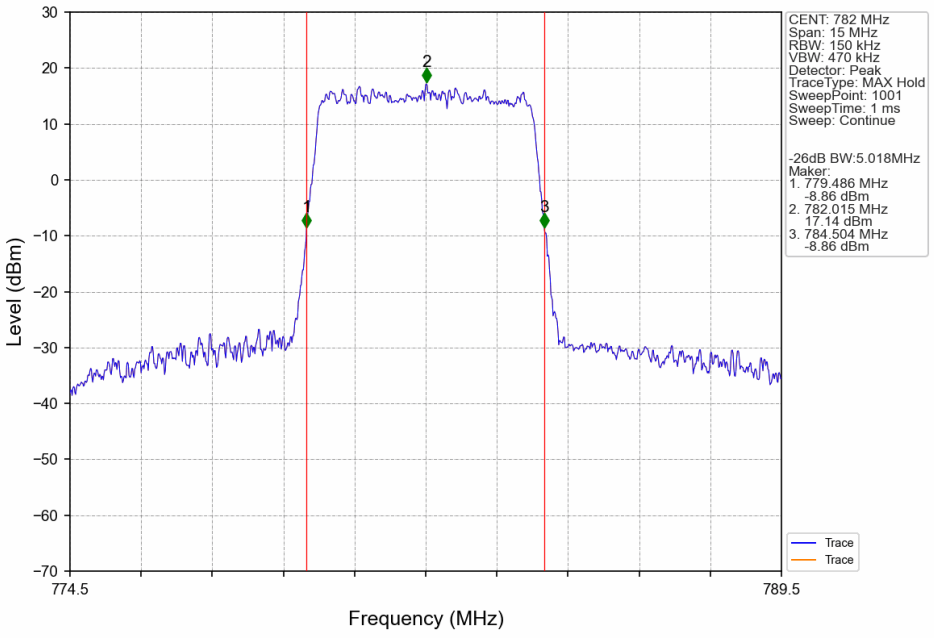
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



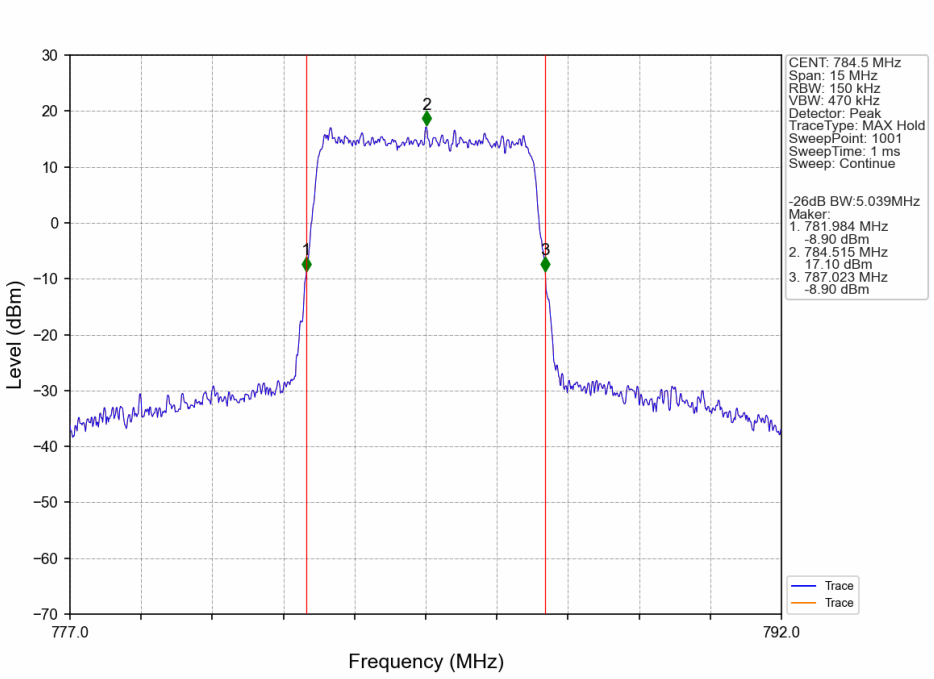
Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



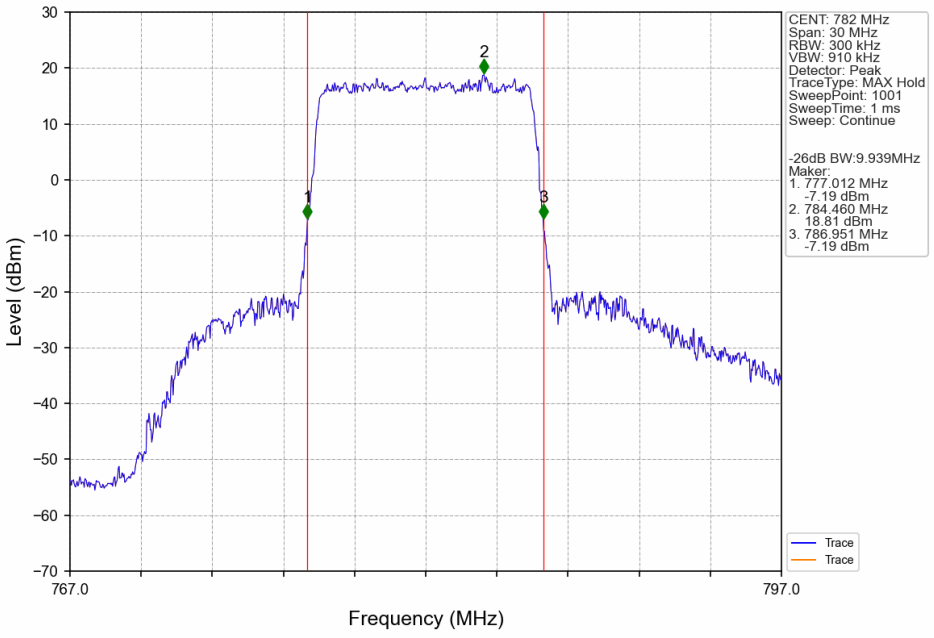
Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



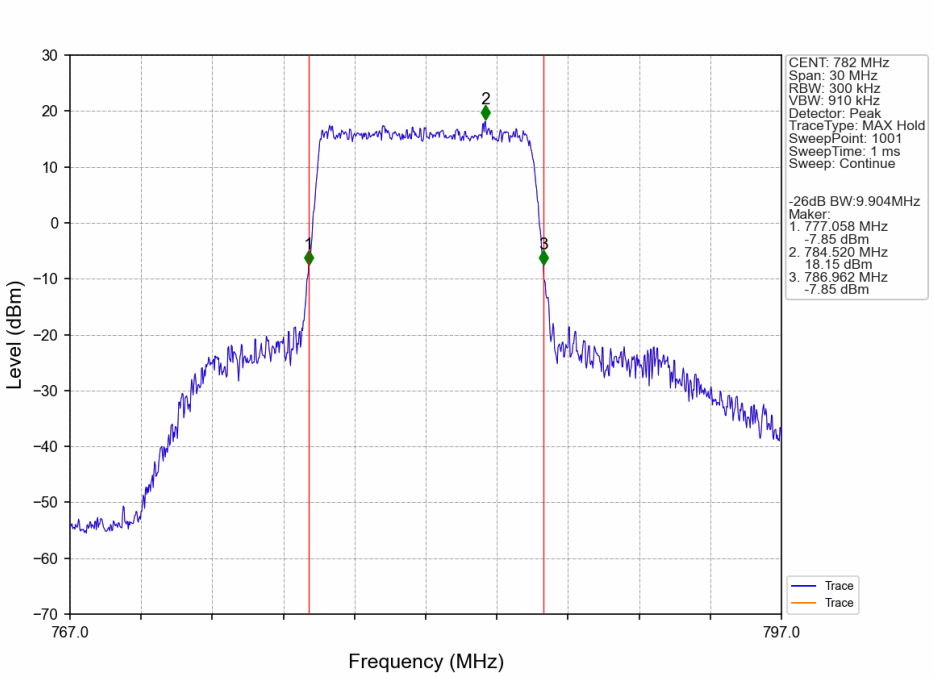
Band13_5MHz_64QAM_HCH_784.5MHz_RB_25_0_NTNV



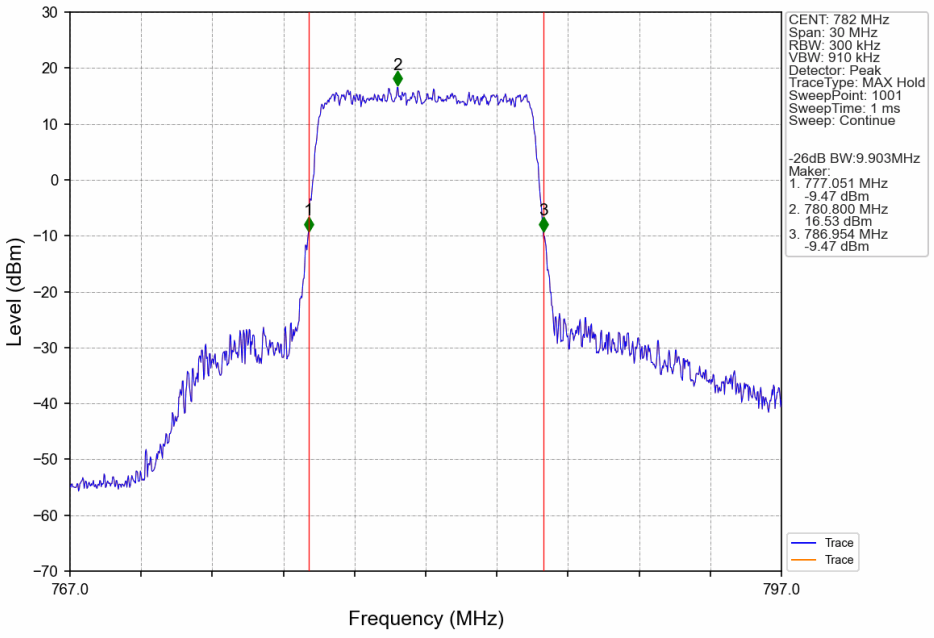
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



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	5.41	<=13	Pass
	782	25	0	5.62	<=13	Pass
	784.5	25	0	5.68	<=13	Pass
16QAM	779.5	25	0	6.14	<=13	Pass
	782	25	0	6.28	<=13	Pass
	784.5	25	0	6.34	<=13	Pass
64QAM	779.5	25	0	6.48	<=13	Pass
	782	25	0	6.56	<=13	Pass
	784.5	25	0	6.60	<=13	Pass

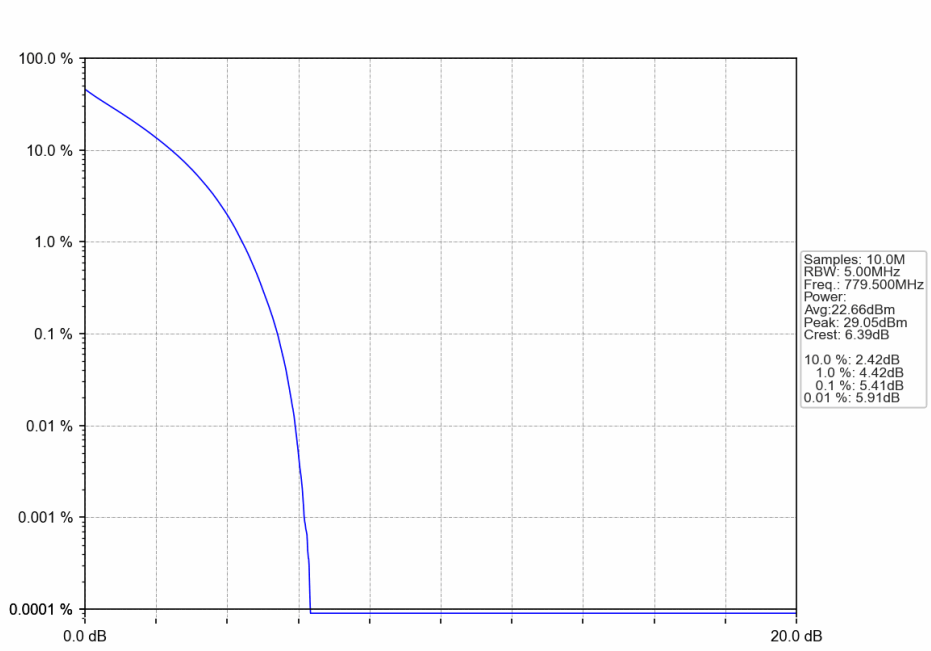
4.1.2 B13_10MHz

Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.60	<=13	Pass
16QAM	782	50	0	6.25	<=13	Pass
64QAM	782	50	0	6.53	<=13	Pass

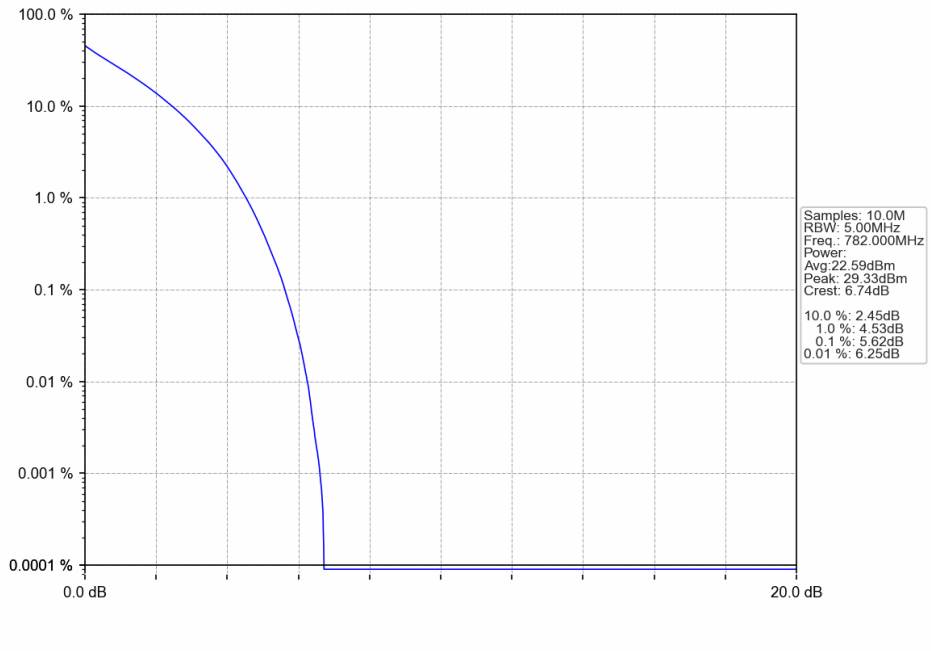
4.2 Test Graph

4.2.1 B13_5MHz

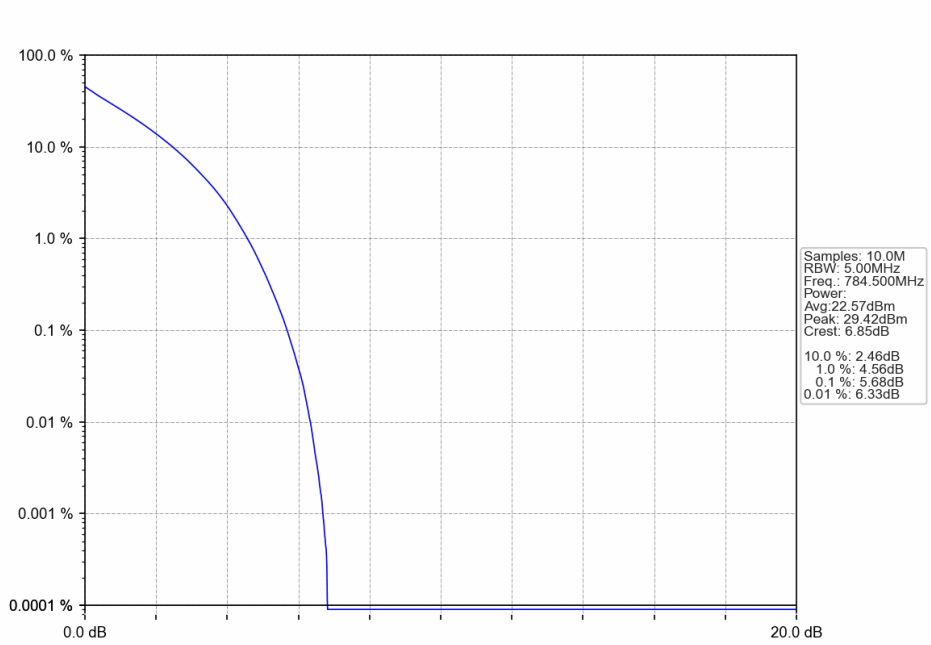
Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV



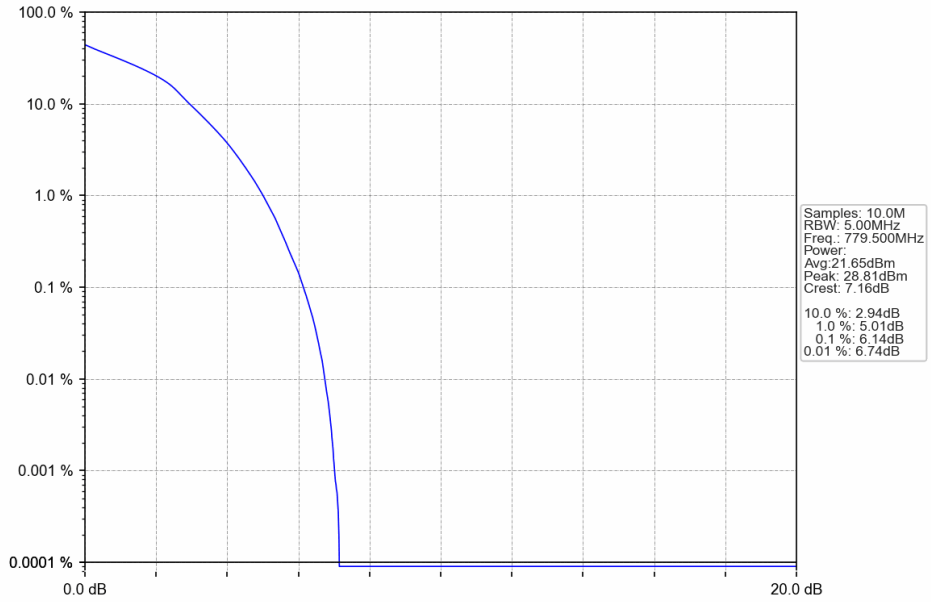
Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



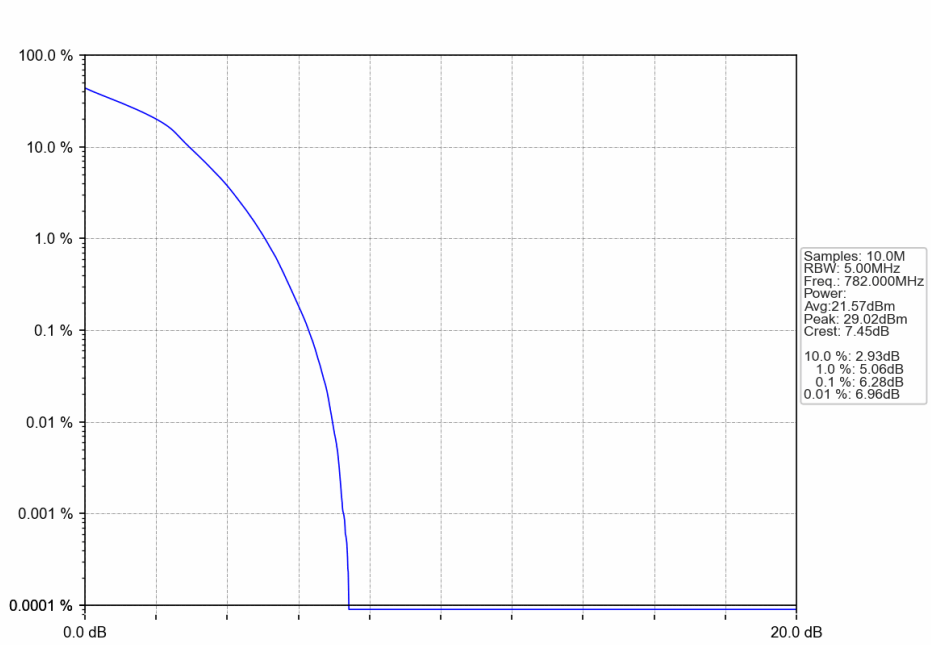
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



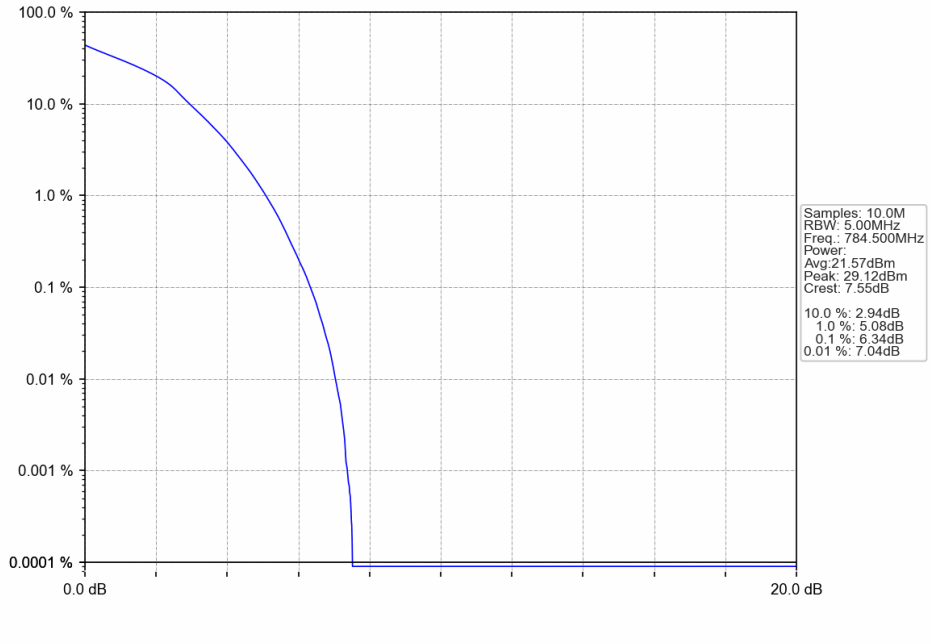
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



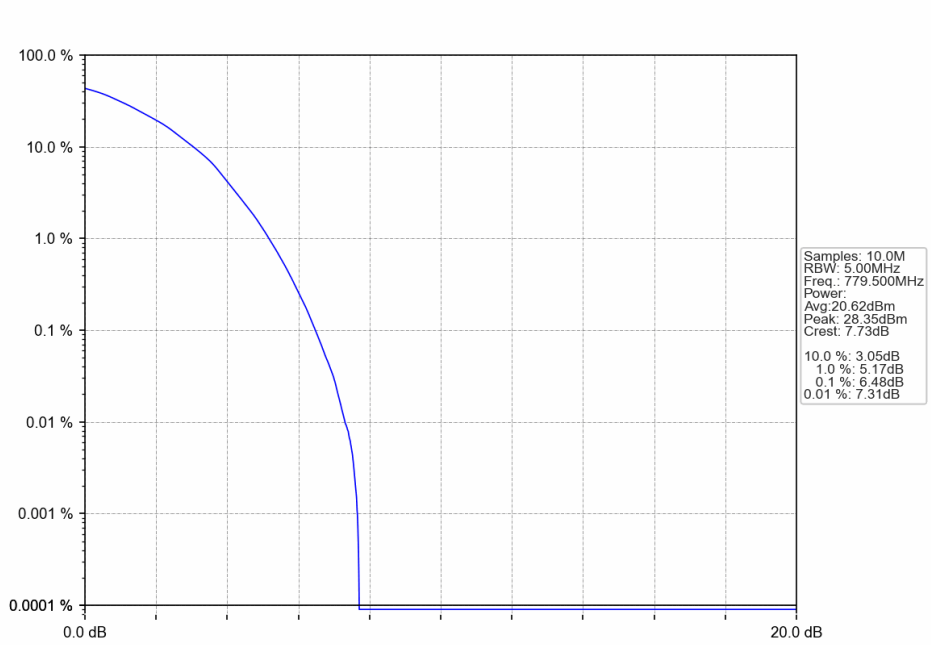
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



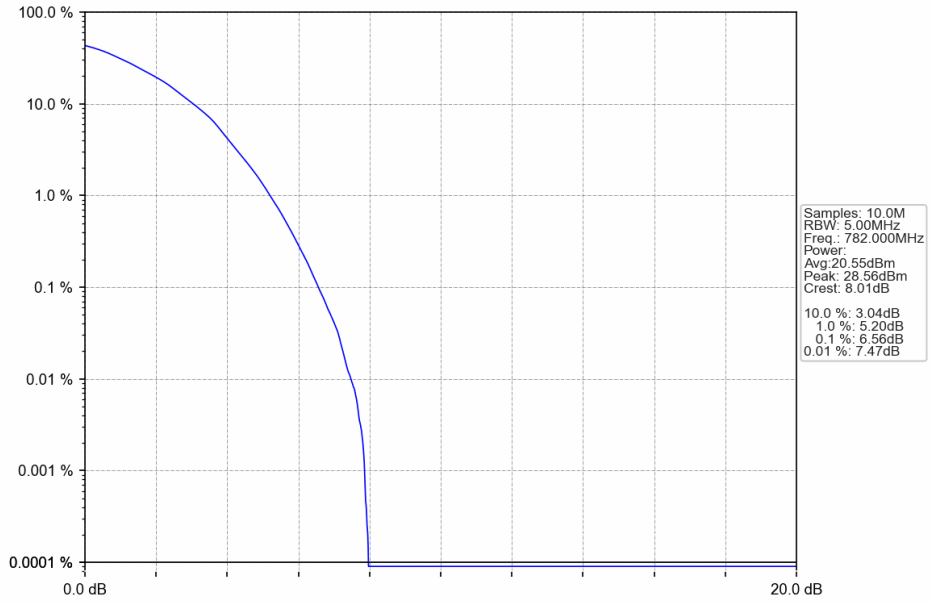
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



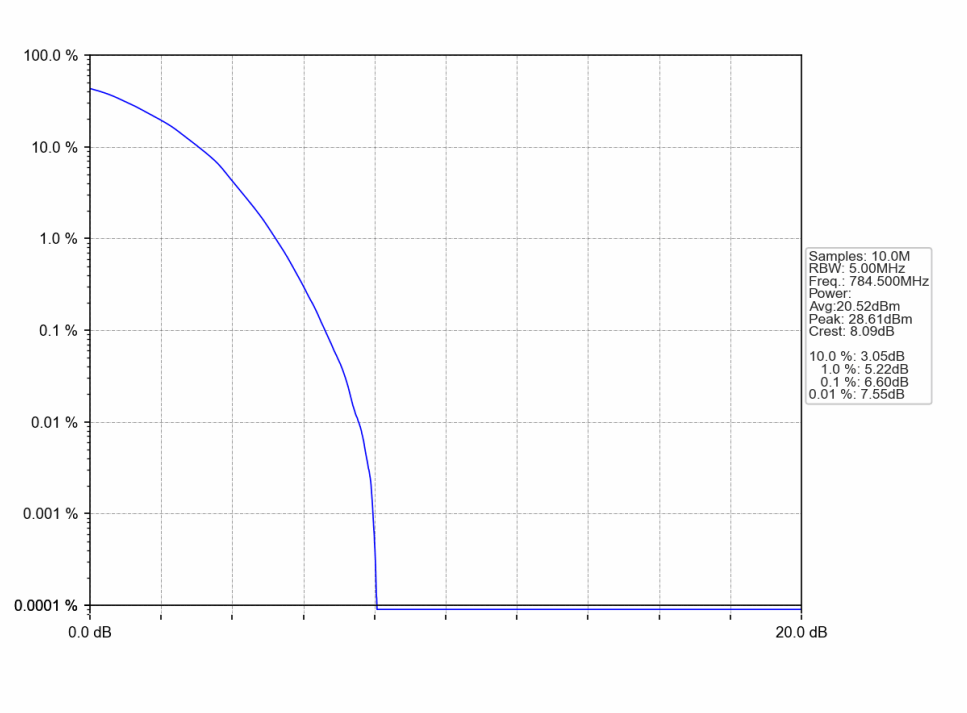
Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV

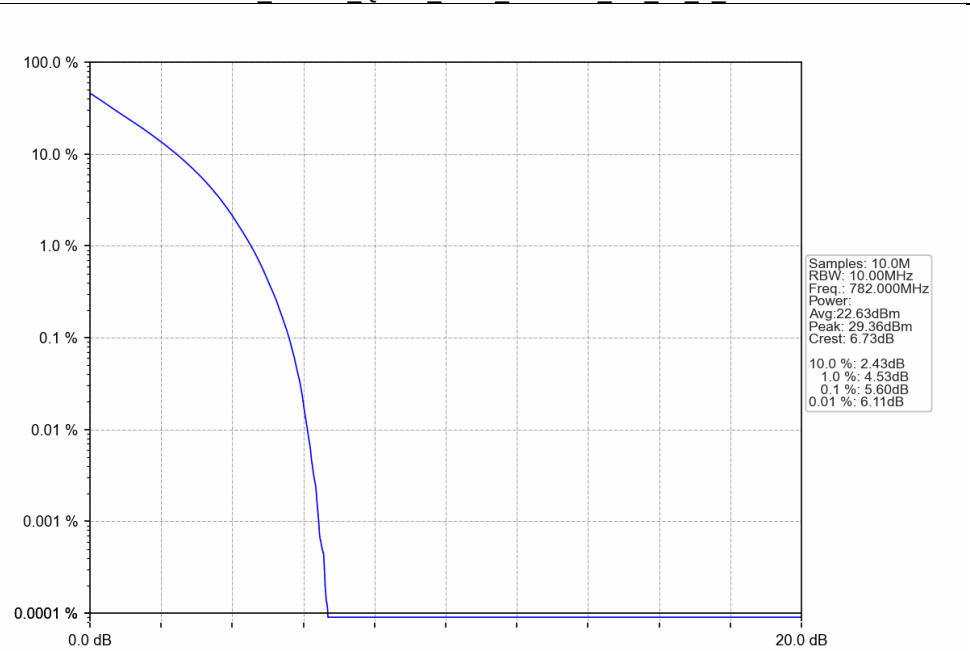


Band13_5MHz_64QAM_HCH_784.5MHz_RB_25_0_NTNV

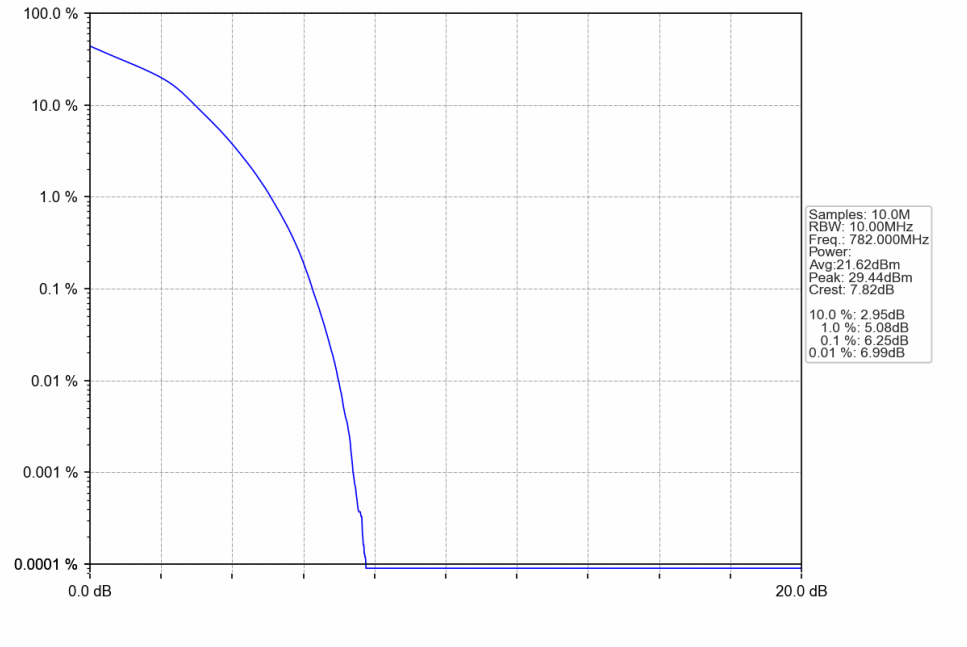


4.2.2 B13_10MHz

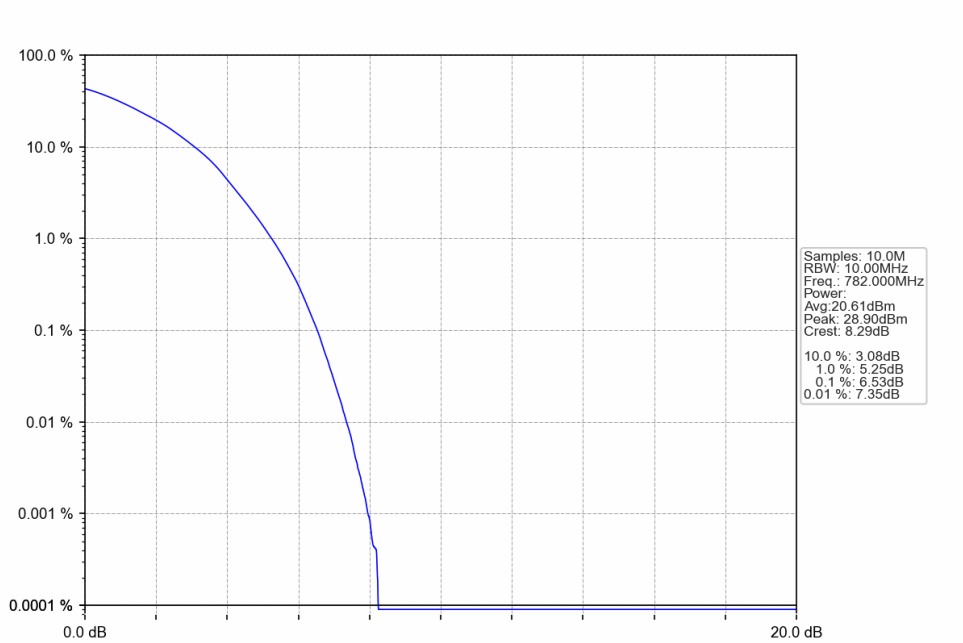
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B13_5MHz

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

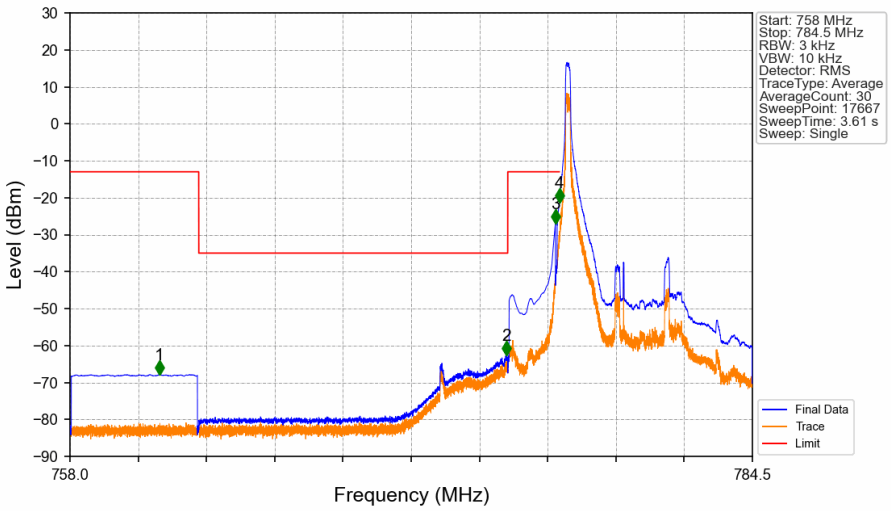
5.1.2 B13_10MHz

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

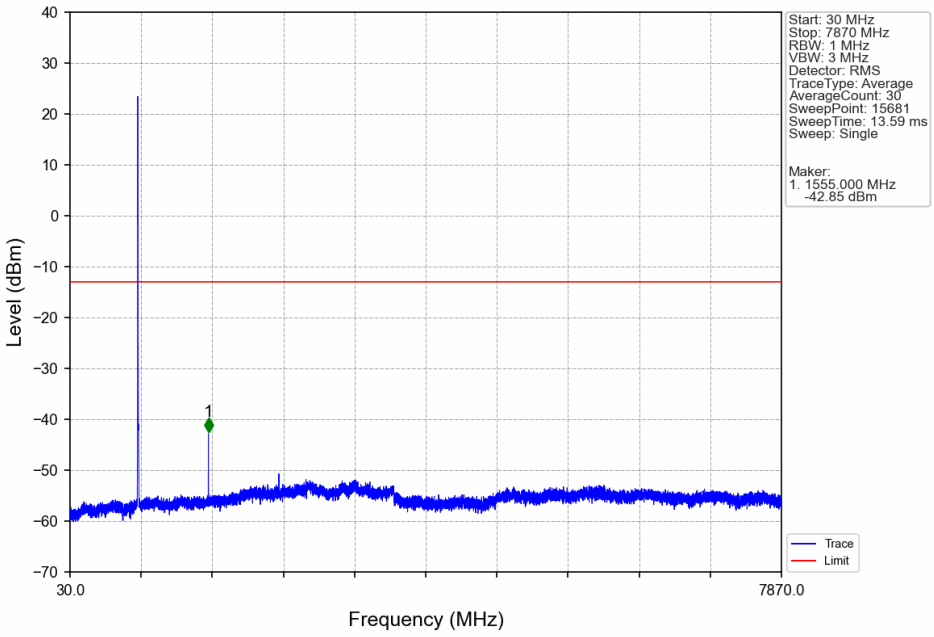
5.2.1 B13_5MHz

Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV

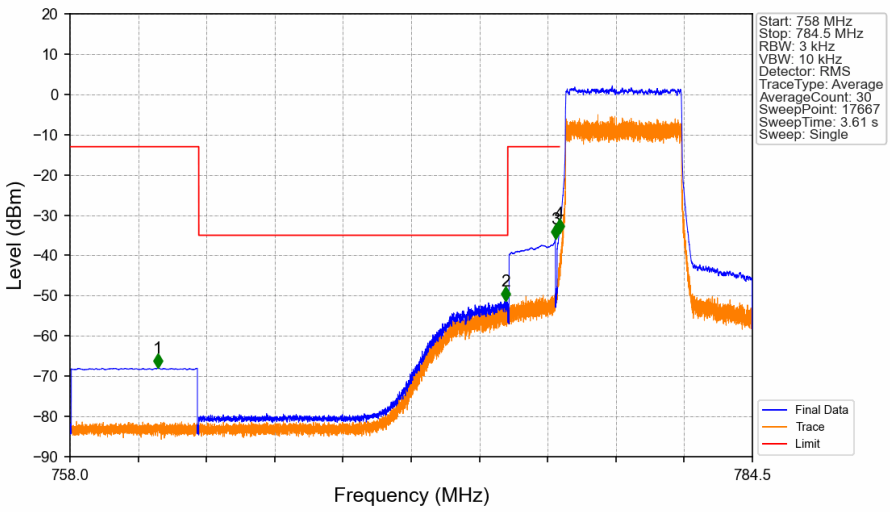


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.476	-67.83	-13	Pass
763	775	0.00625	CHP	2	774.961	-62.71	-35	Pass
775	776.9	0.1	CHP	3	776.850	-27.00	-13	Pass
776.9	777	0.03	CHP	4	777.000	-21.28	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV

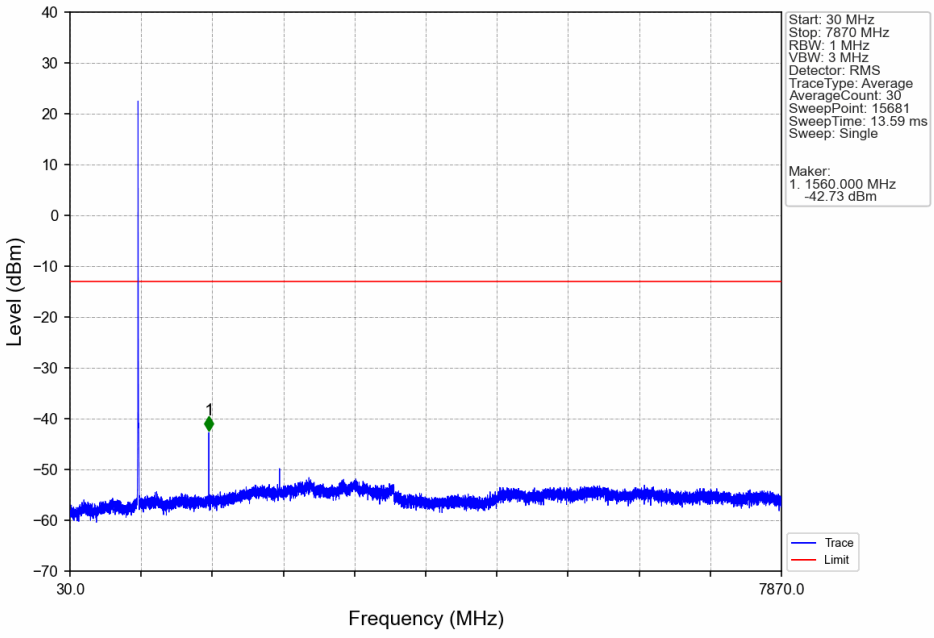


Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV

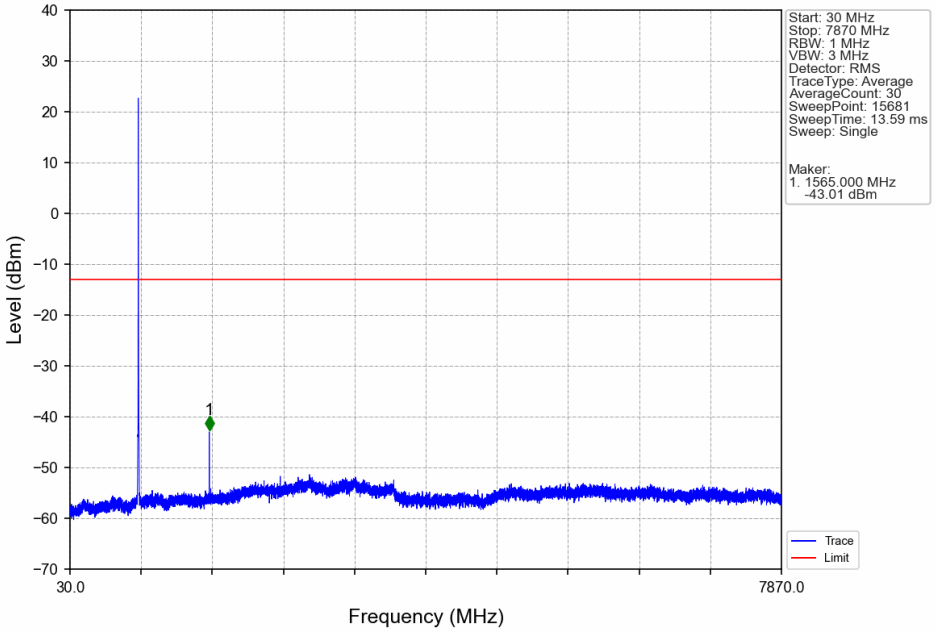


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.407	-67.99	-13	Pass
763	775	0.00625	CHP	2	774.925	-51.34	-35	Pass
775	776.9	0.1	CHP	3	776.850	-35.77	-13	Pass
776.9	777	0.03	CHP	4	777.000	-34.39	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

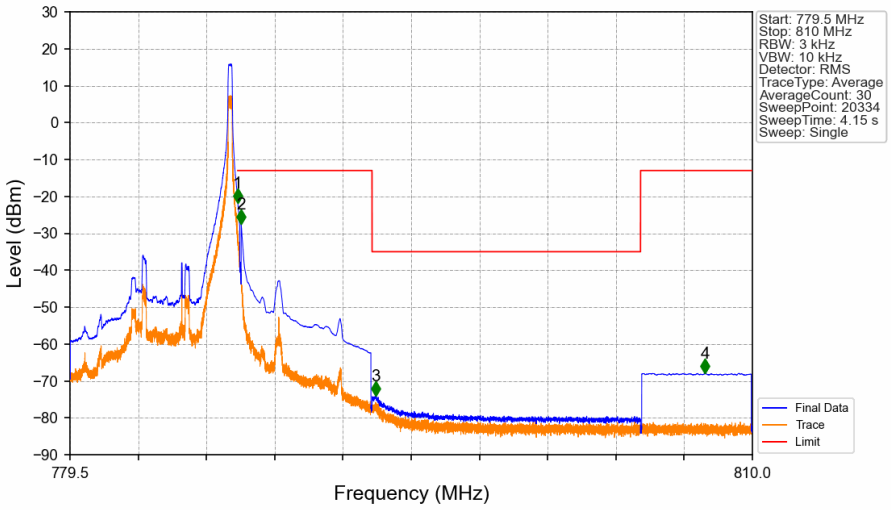
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV

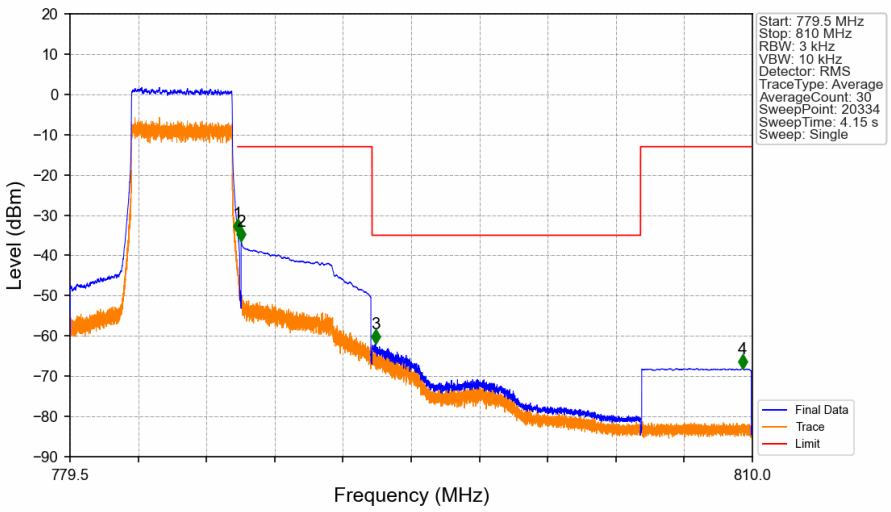


Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



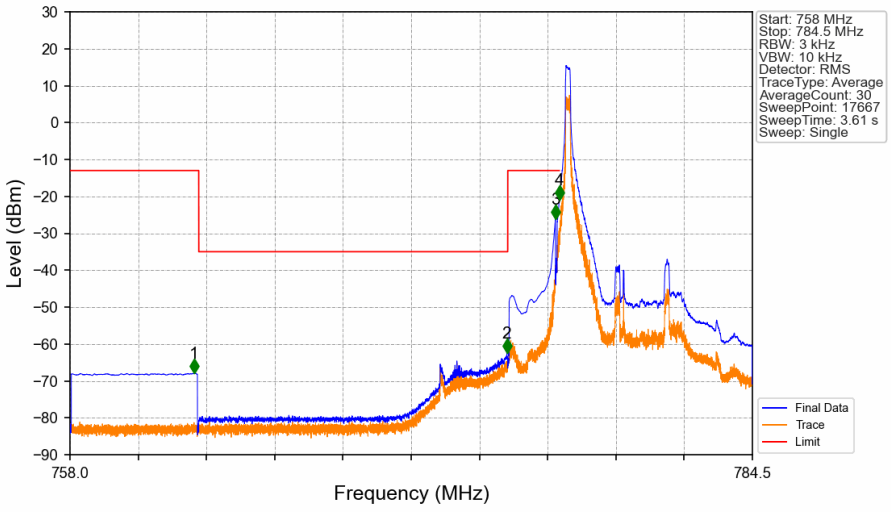
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-21.77	-13	Pass
787.1	793	0.1	CHP	2	787.150	-27.34	-13	Pass
793	805	0.00625	CHP	3	793.162	-73.88	-35	Pass
805	810	0.1	CHP	4	807.880	-67.92	-13	Pass

Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



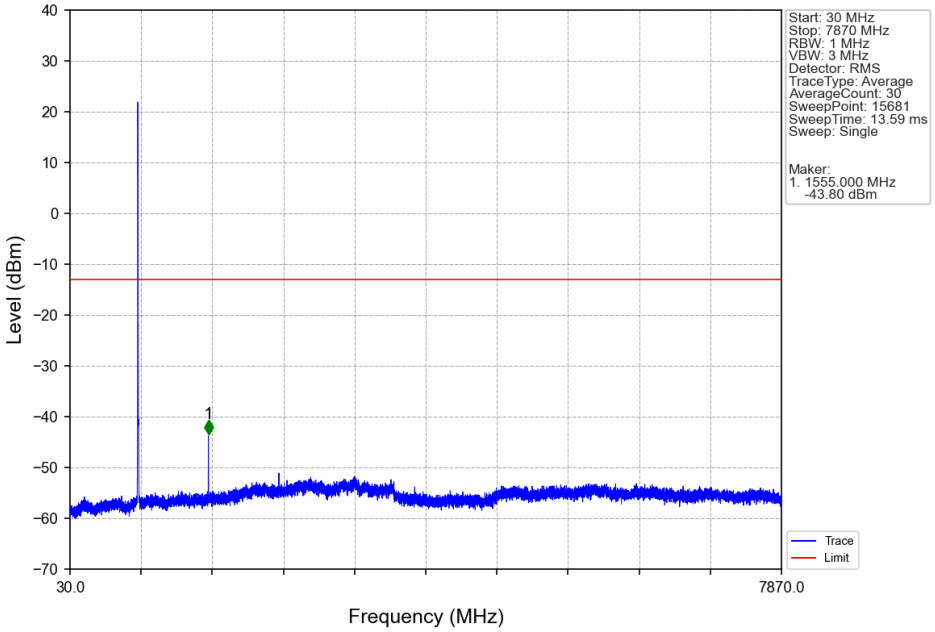
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-34.42	-13	Pass
787.1	793	0.1	CHP	2	787.150	-36.37	-13	Pass
793	805	0.00625	CHP	3	793.159	-61.83	-35	Pass
805	810	0.1	CHP	4	809.553	-68.05	-13	Pass

Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV

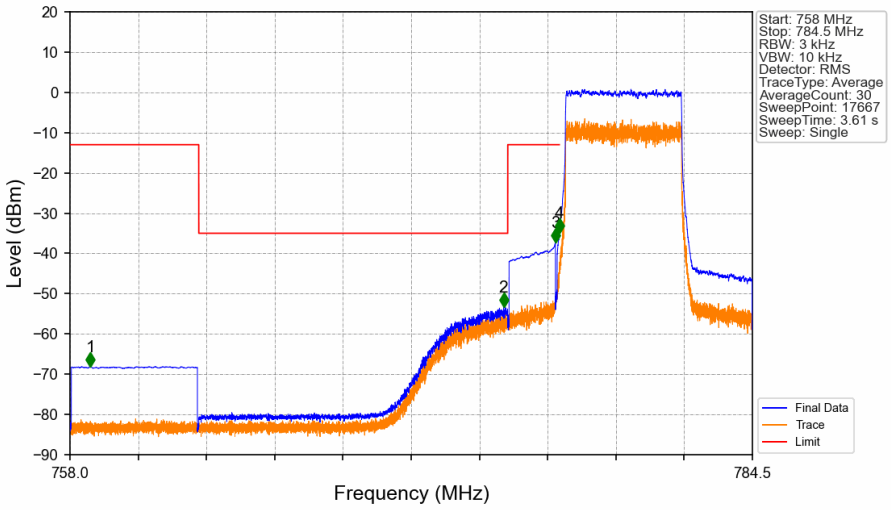


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.821	-67.94	-13	Pass
763	775	0.00625	CHP	2	774.966	-62.41	-35	Pass
775	776.9	0.1	CHP	3	776.850	-26.16	-13	Pass
776.9	777	0.03	CHP	4	777.000	-20.81	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV

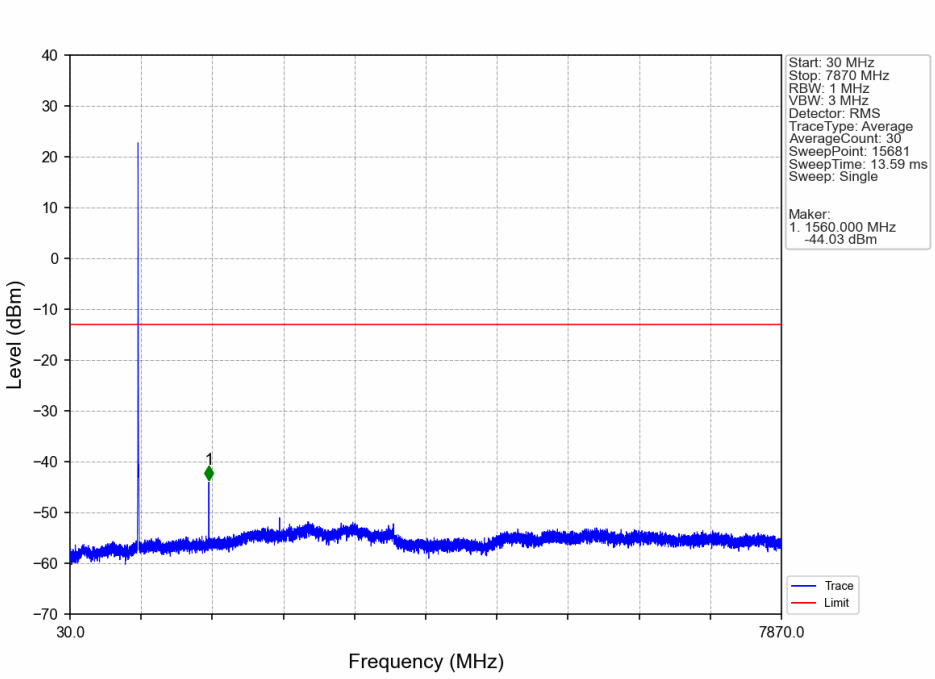


Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV

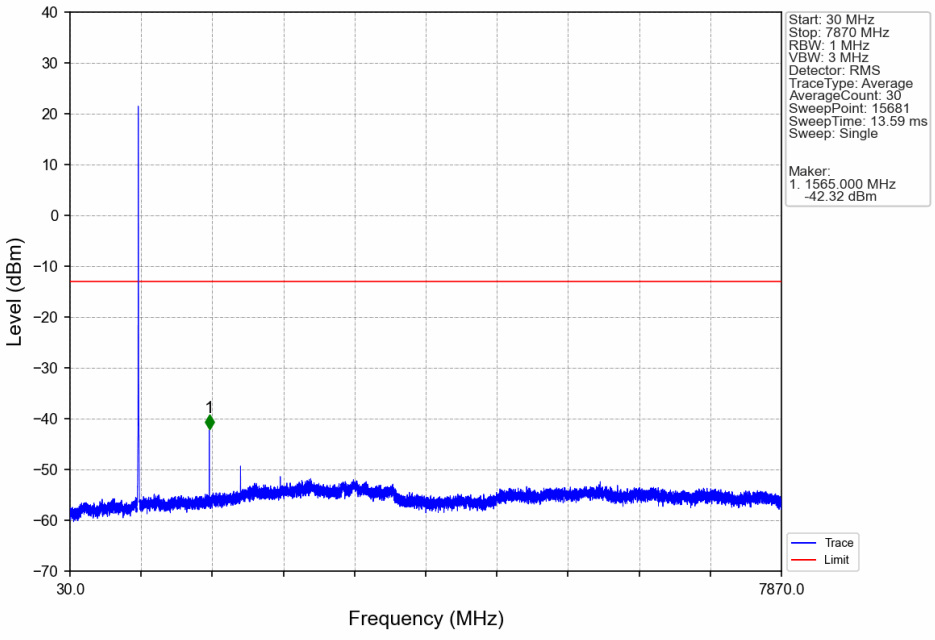


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.789	-68.12	-13	Pass
763	775	0.00625	CHP	2	774.838	-53.32	-35	Pass
775	776.9	0.1	CHP	3	776.850	-37.17	-13	Pass
776.9	777	0.03	CHP	4	777.000	-34.76	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

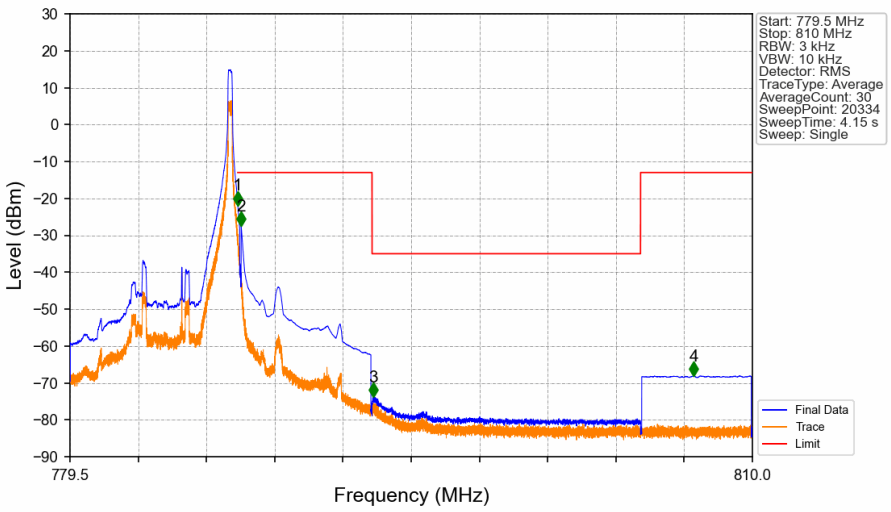
Band13_5MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV

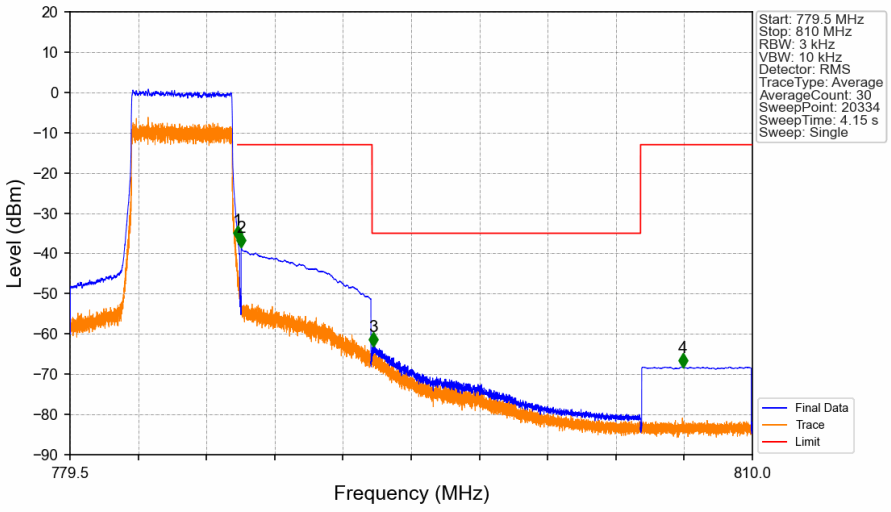


Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_24_NTNV



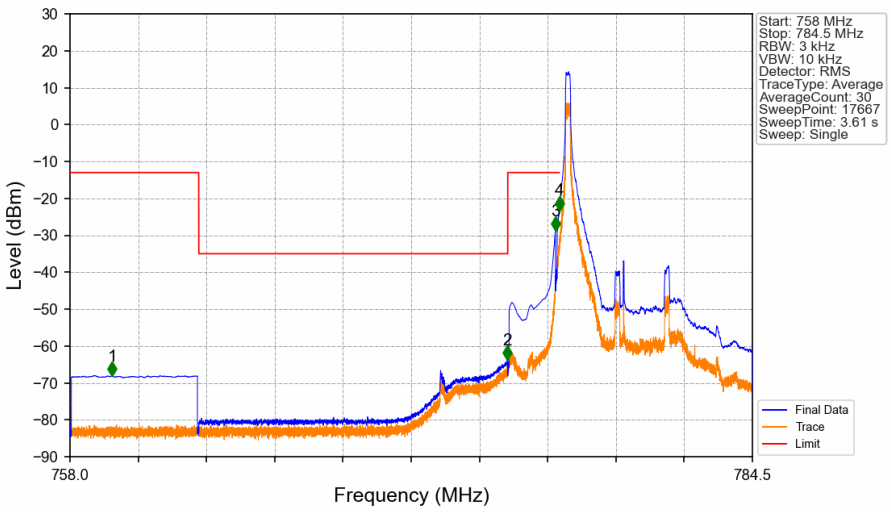
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-21.85	-13	Pass
787.1	793	0.1	CHP	2	787.150	-27.33	-13	Pass
793	805	0.00625	CHP	3	793.050	-73.76	-35	Pass
805	810	0.1	CHP	4	807.378	-68.09	-13	Pass

Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



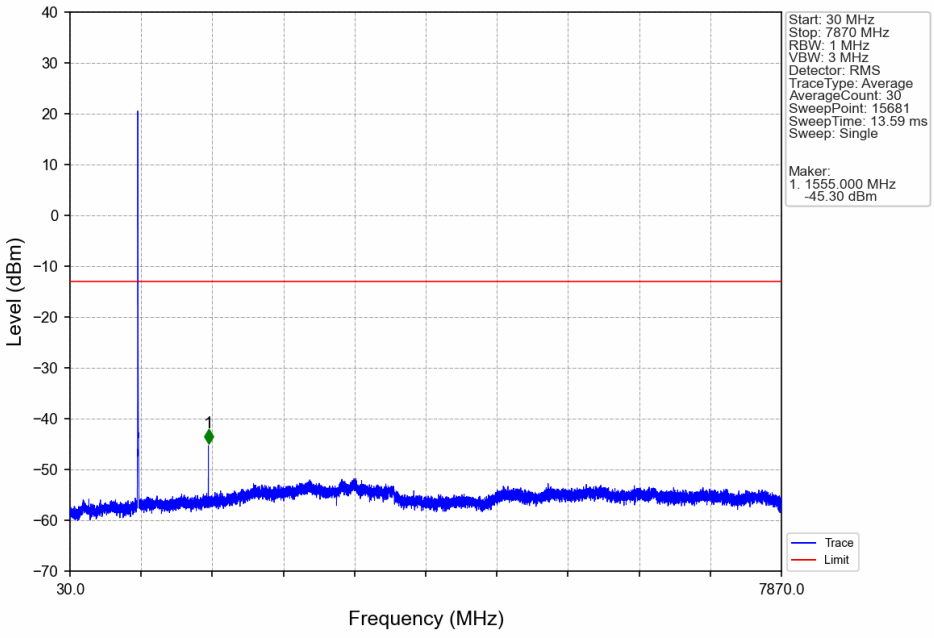
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-36.58	-13	Pass
787.1	793	0.1	CHP	2	787.150	-38.37	-13	Pass
793	805	0.00625	CHP	3	793.072	-63.08	-35	Pass
805	810	0.1	CHP	4	806.886	-68.21	-13	Pass

Band13_5MHz_64QAM_LCH_779.5MHz_RB_1_0_NTNV

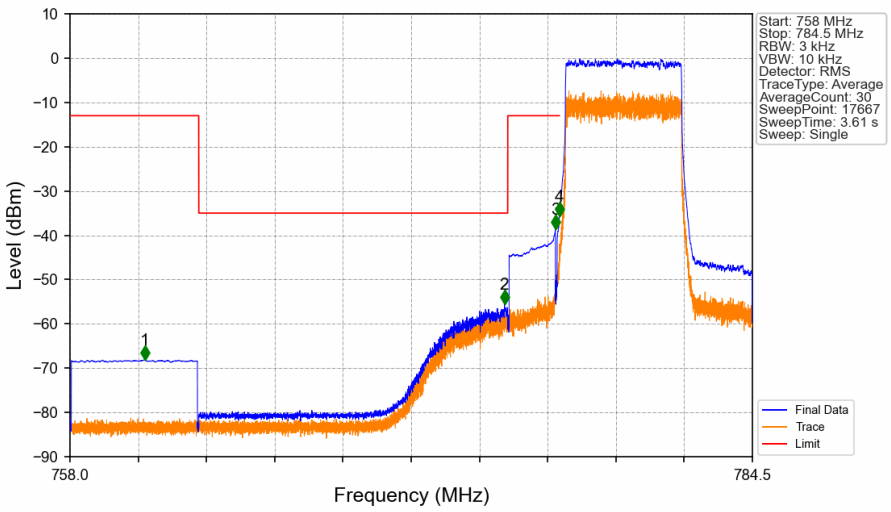


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.643	-67.99	-13	Pass
763	775	0.00625	CHP	2	774.975	-63.63	-35	Pass
775	776.9	0.1	CHP	3	776.850	-28.66	-13	Pass
776.9	777	0.03	CHP	4	777.000	-23.16	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

Band13_5MHz_64QAM_LCH_779.5MHz_RB_1_0_NTNV

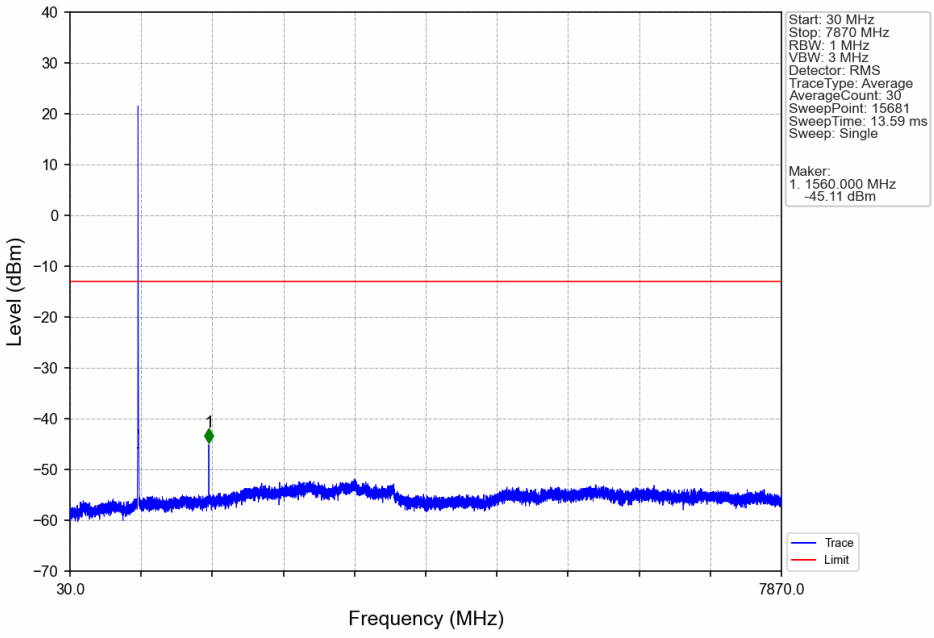


Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV

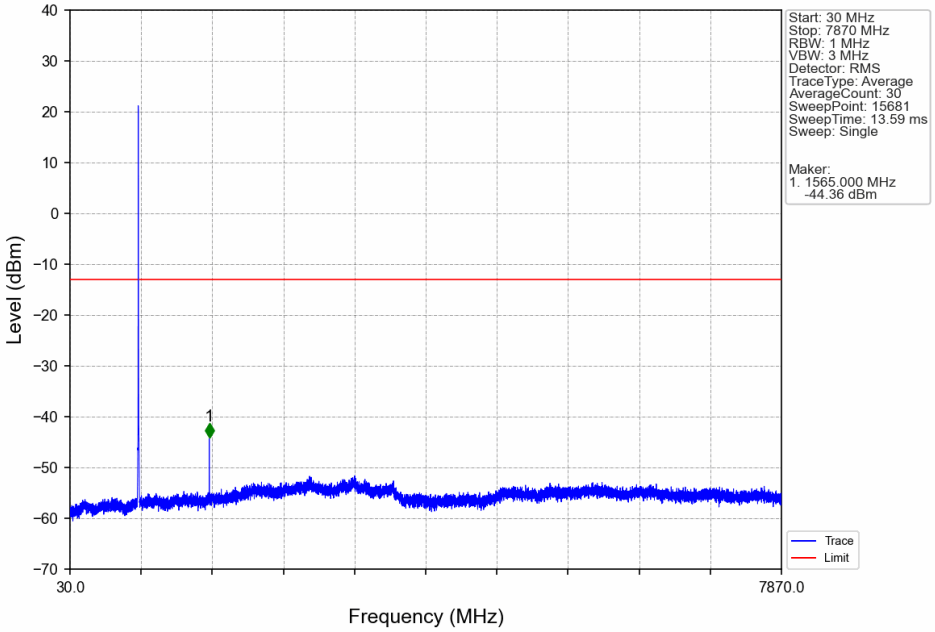


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.898	-68.15	-13	Pass
763	775	0.00625	CHP	2	774.873	-55.44	-35	Pass
775	776.9	0.1	CHP	3	776.850	-38.66	-13	Pass
776.9	777	0.03	CHP	4	777.000	-35.71	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

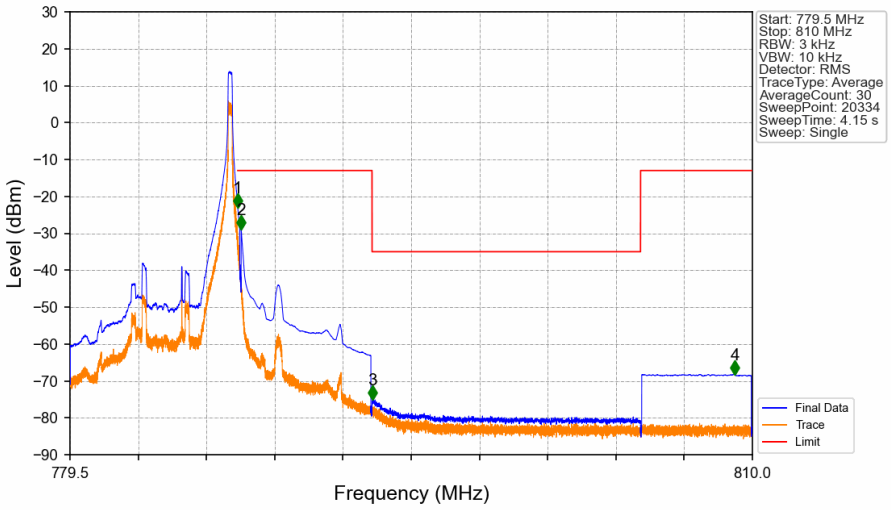
Band13_5MHz_64QAM_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_64QAM_HCH_784.5MHz_RB_1_0_NTNV

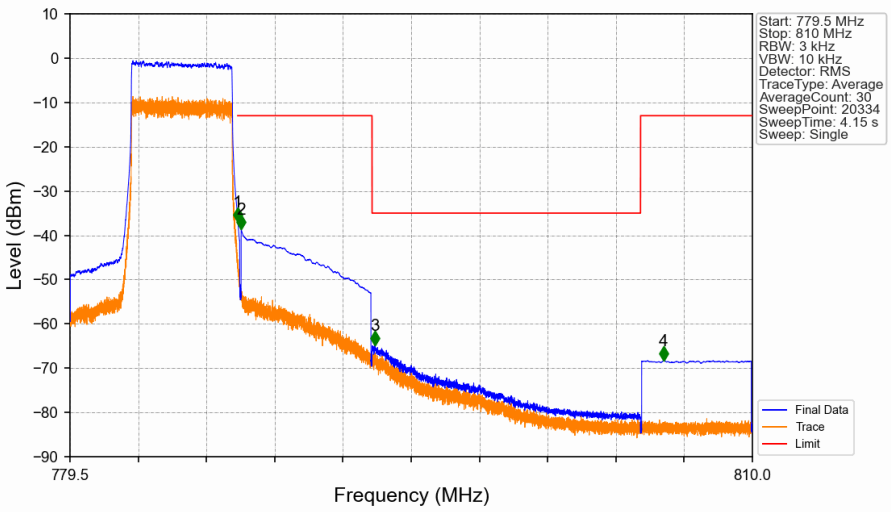


Band13_5MHz_64QAM_HCH_784.5MHz_RB_1_24_NTNV



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	-23.10	-13	Pass
787.1	793	0.1	CHP	2	787.150	-28.85	-13	Pass
793	805	0.00625	CHP	3	793.030	-75.05	-35	Pass
805	810	0.1	CHP	4	809.209	-68.21	-13	Pass

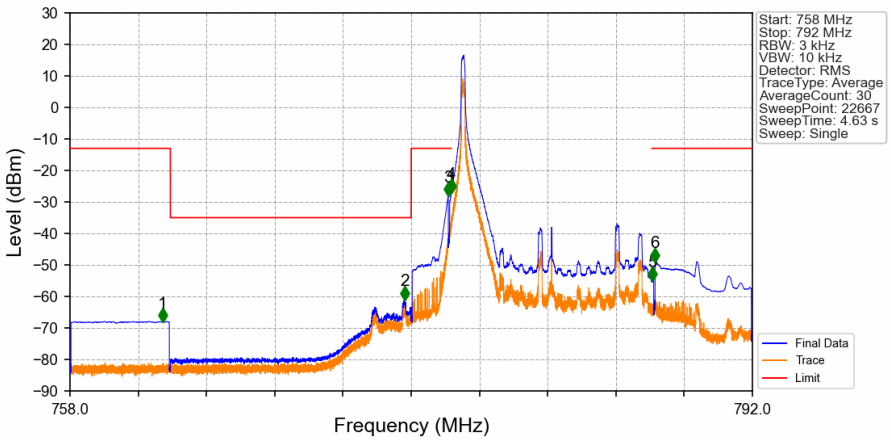
Band13_5MHz_64QAM_HCH_784.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-36.97	-13	Pass
787.1	793	0.1	CHP	2	787.150	-38.61	-13	Pass
793	805	0.00625	CHP	3	793.131	-64.82	-35	Pass
805	810	0.1	CHP	4	806.035	-68.30	-13	Pass

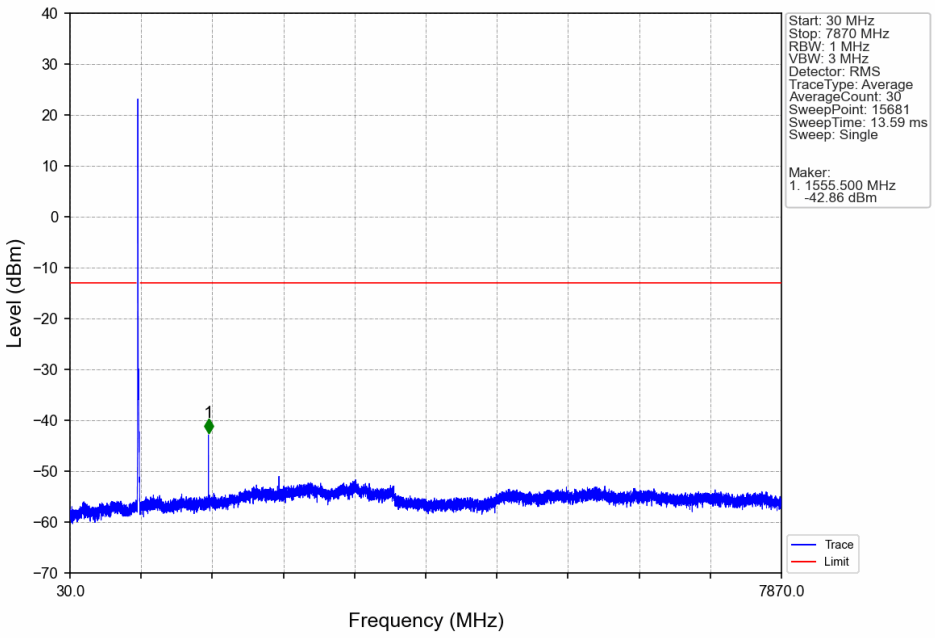
5.2.2 B13_10MHz

Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

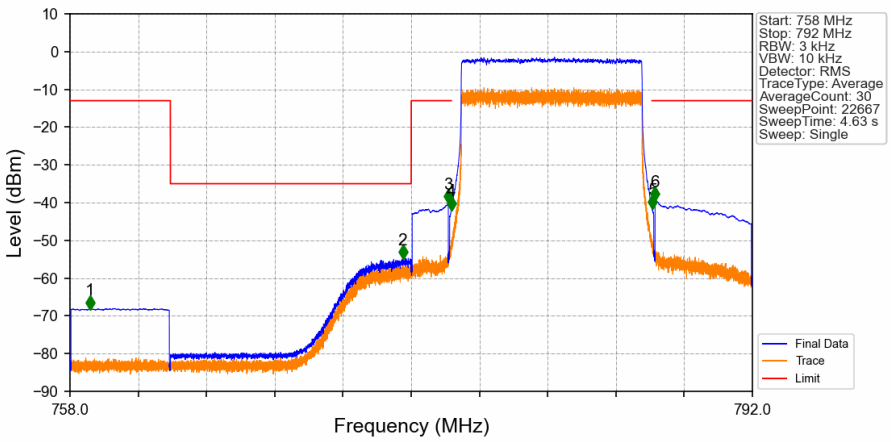


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.623	-67.90	-13	Pass
763	775	0.00625	CHP	2	774.671	-60.77	-35	Pass
775	776.9	0.1	CHP	3	776.850	-27.86	-13	Pass
776.9	777	0.03	CHP	4	777.000	-26.84	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.005	-54.67	-13	Pass
787.1	792	0.1	CHP	6	787.150	-48.73	-13	Pass

Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

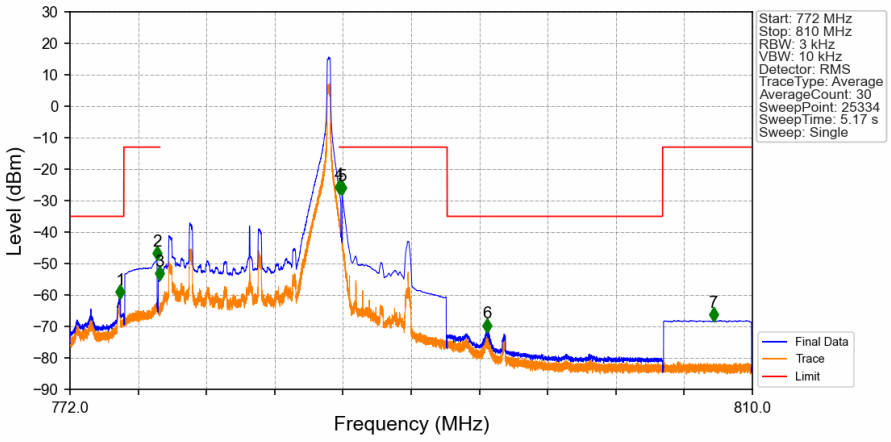


Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



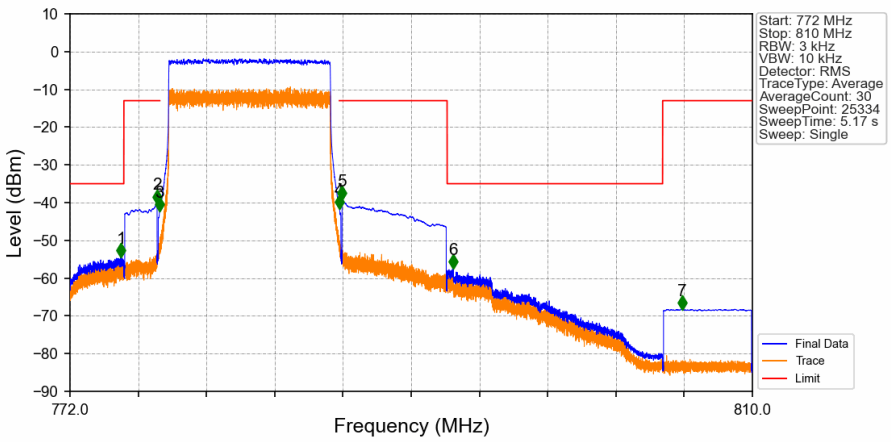
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.987	-68.03	-13	Pass
763	775	0.00625	CHP	2	774.581	-54.63	-35	Pass
775	776.9	0.1	CHP	3	776.850	-39.89	-13	Pass
776.9	777	0.03	CHP	4	776.998	-41.73	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.005	-41.43	-13	Pass
787.1	792	0.1	CHP	6	787.150	-39.25	-13	Pass

Band13_10MHz_QPSK_HCH_782MHz_RB_1_49_NTNV



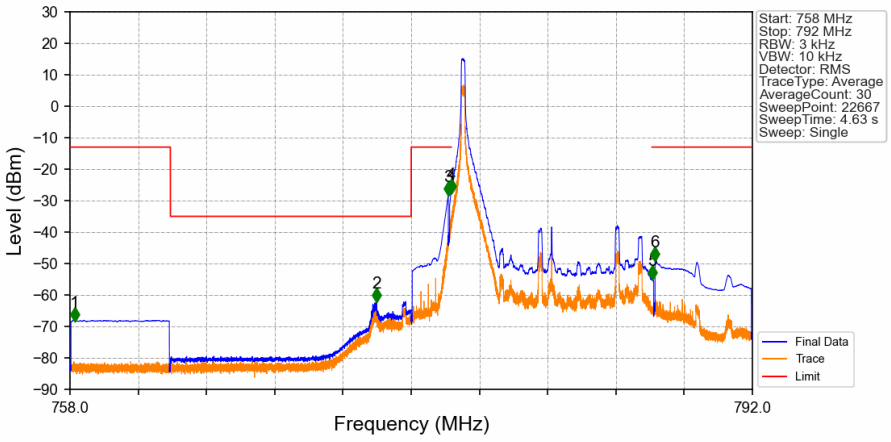
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.796	-60.99	-35	Pass
775	776.9	0.1	CHP	2	776.847	-48.58	-13	Pass
776.9	777	0.03	CHP	3	776.997	-55.07	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-27.47	-13	Pass
787.1	793	0.1	CHP	5	787.150	-27.82	-13	Pass
793	805	0.00625	CHP	6	795.207	-71.52	-35	Pass
805	810	0.1	CHP	7	807.850	-68.11	-13	Pass

Band13_10MHz_QPSK_HCH_782MHz_RB_50_0_NTNV



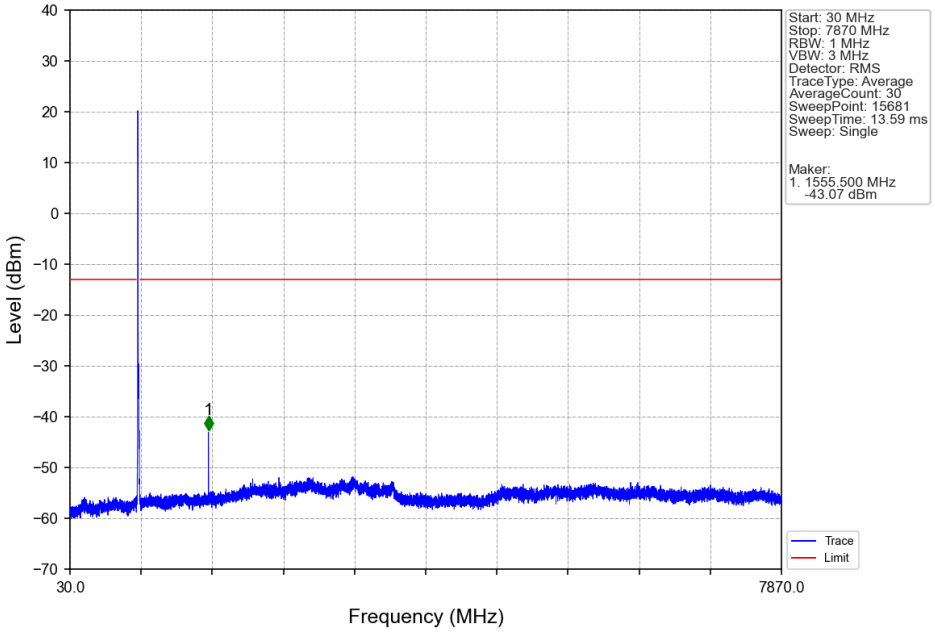
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.852	-54.29	-35	Pass
775	776.9	0.1	CHP	2	776.850	-40.00	-13	Pass
776.9	777	0.03	CHP	3	776.992	-42.06	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.002	-41.42	-13	Pass
787.1	793	0.1	CHP	5	787.150	-39.03	-13	Pass
793	805	0.00625	CHP	6	793.333	-57.26	-35	Pass
805	810	0.1	CHP	7	806.076	-68.13	-13	Pass

Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV

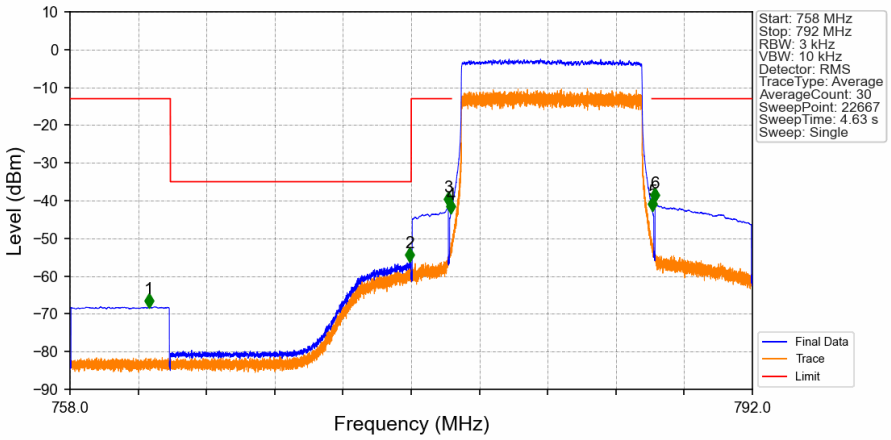


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.227	-68.02	-13	Pass
763	775	0.00625	CHP	2	773.269	-61.92	-35	Pass
775	776.9	0.1	CHP	3	776.850	-28.08	-13	Pass
776.9	777	0.03	CHP	4	776.998	-27.41	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.009	-54.83	-13	Pass
787.1	792	0.1	CHP	6	787.150	-48.92	-13	Pass

Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV

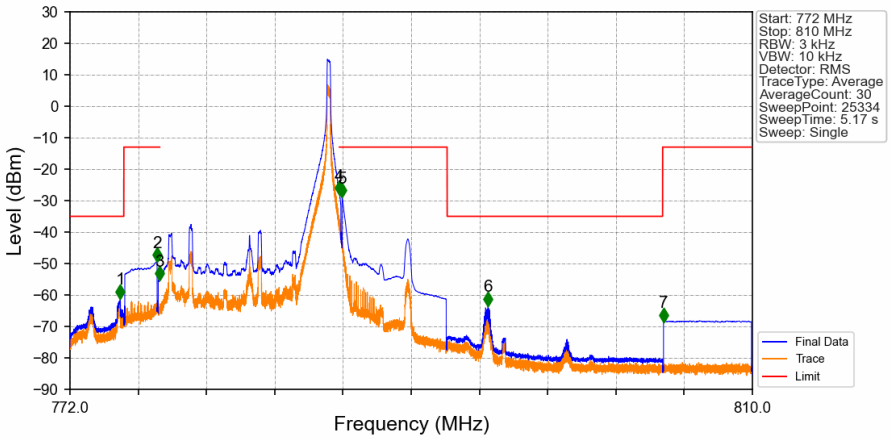


Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV



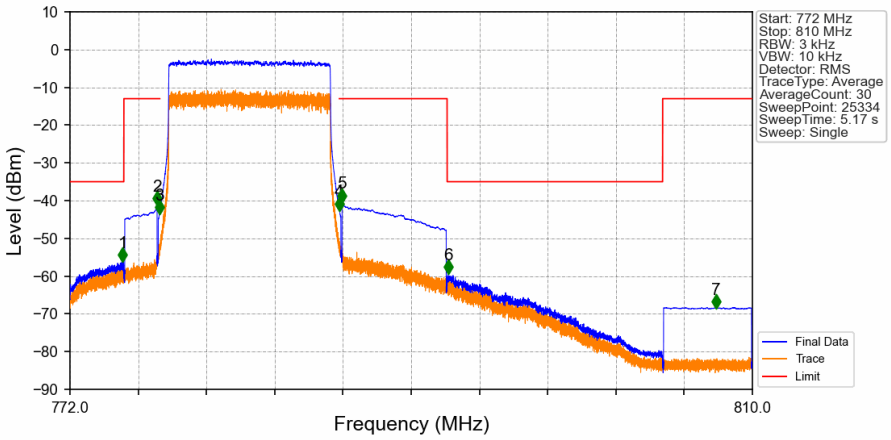
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.929	-68.12	-13	Pass
763	775	0.00625	CHP	2	774.925	-55.90	-35	Pass
775	776.9	0.1	CHP	3	776.850	-41.14	-13	Pass
776.9	777	0.03	CHP	4	776.989	-43.13	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.002	-42.36	-13	Pass
787.1	792	0.1	CHP	6	787.150	-40.16	-13	Pass

Band13_10MHz_16QAM_HCH_782MHz_RB_1_49_NTNV



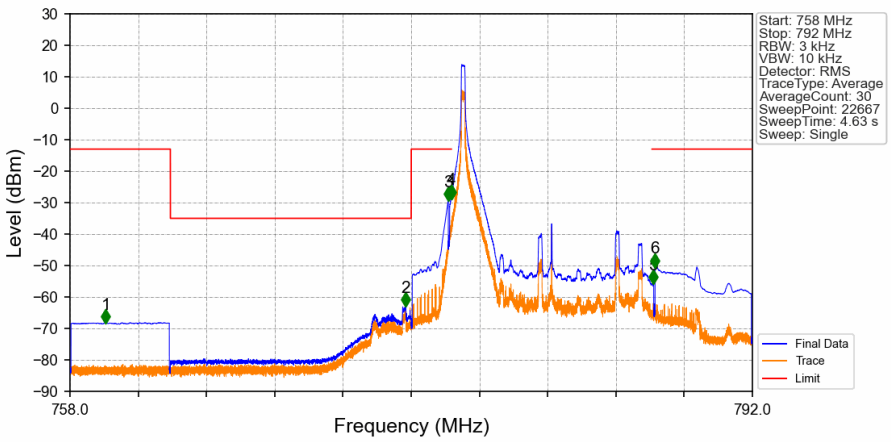
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.795	-60.75	-35	Pass
775	776.9	0.1	CHP	2	776.848	-49.18	-13	Pass
776.9	777	0.03	CHP	3	777.000	-55.04	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-27.82	-13	Pass
787.1	793	0.1	CHP	5	787.150	-28.58	-13	Pass
793	805	0.00625	CHP	6	795.282	-63.12	-35	Pass
805	810	0.1	CHP	7	805.071	-68.21	-13	Pass

Band13_10MHz_16QAM_HCH_782MHz_RB_50_0_NTNV



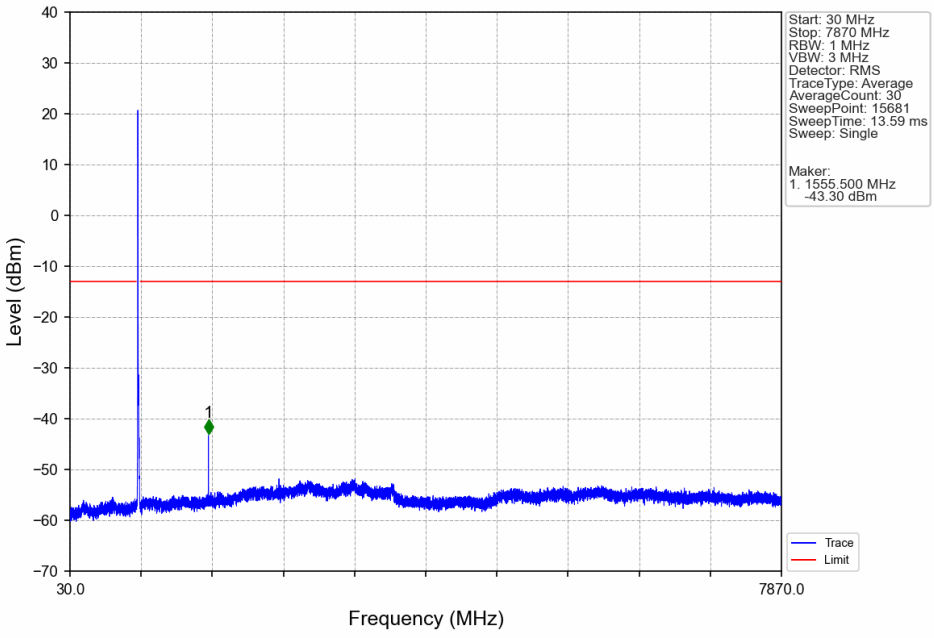
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.925	-56.00	-35	Pass
775	776.9	0.1	CHP	2	776.850	-40.96	-13	Pass
776.9	777	0.03	CHP	3	776.991	-43.28	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-42.38	-13	Pass
787.1	793	0.1	CHP	5	787.150	-40.21	-13	Pass
793	805	0.00625	CHP	6	793.050	-59.14	-35	Pass
805	810	0.1	CHP	7	807.984	-68.35	-13	Pass

Band13_10MHz_64QAM_LCH_782MHz_RB_1_0_NTNV

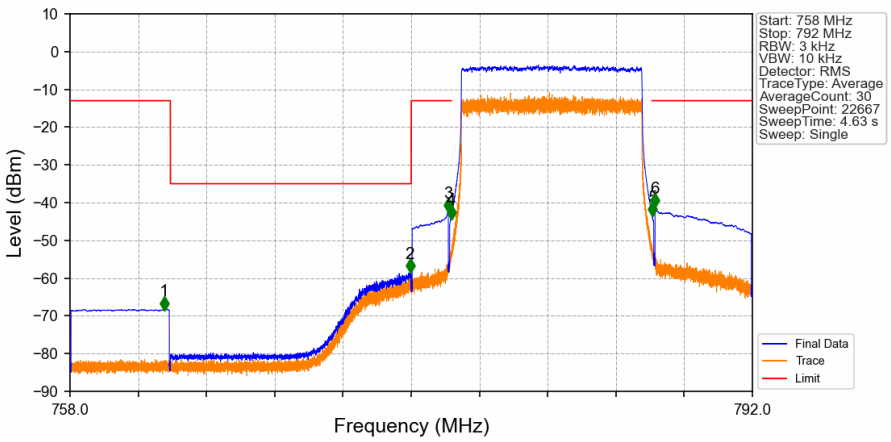


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.775	-68.14	-13	Pass
763	775	0.00625	CHP	2	774.716	-62.67	-35	Pass
775	776.9	0.1	CHP	3	776.850	-29.06	-13	Pass
776.9	777	0.03	CHP	4	777.000	-28.46	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.060	-55.50	-13	Pass
787.1	792	0.1	CHP	6	787.150	-50.28	-13	Pass

Band13_10MHz_64QAM_LCH_782MHz_RB_1_0_NTNV

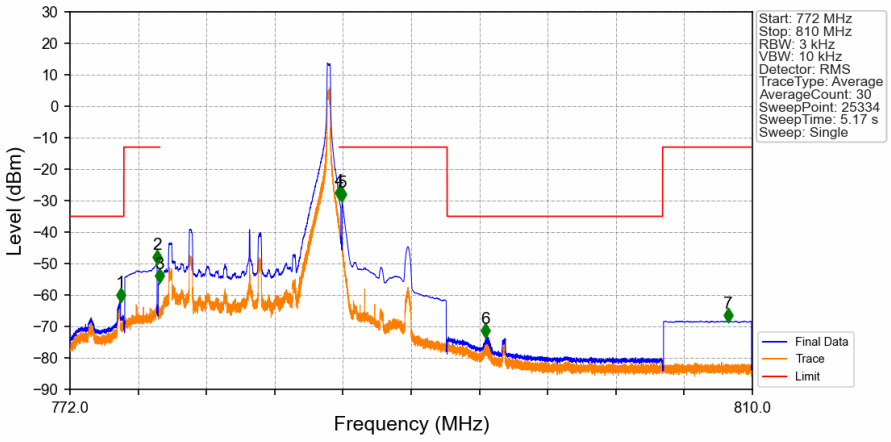


Band13_10MHz_64QAM_LCH_782MHz_RB_50_0_NTNV



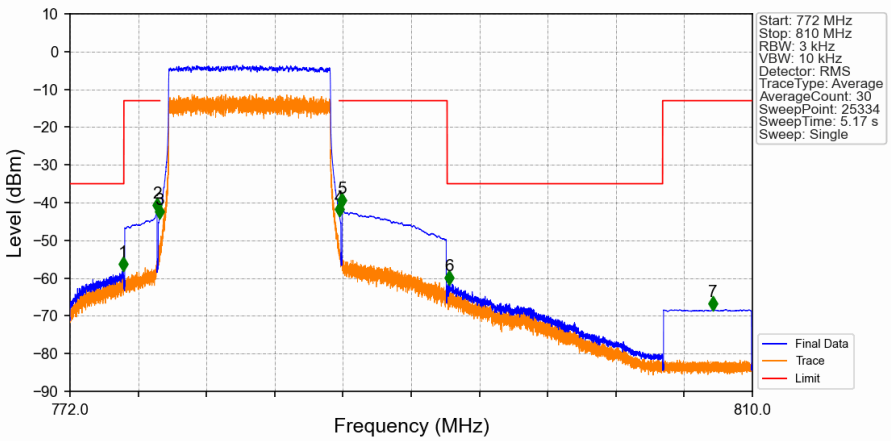
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.688	-68.23	-13	Pass
763	775	0.00625	CHP	2	774.941	-58.28	-35	Pass
775	776.9	0.1	CHP	3	776.850	-42.28	-13	Pass
776.9	777	0.03	CHP	4	776.998	-44.07	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.000	-43.30	-13	Pass
787.1	792	0.1	CHP	6	787.150	-40.98	-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	774.808	-61.82	-35	Pass
775	776.9	0.1	CHP	2	776.848	-49.78	-13	Pass
776.9	777	0.03	CHP	3	777.000	-55.70	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-29.42	-13	Pass
787.1	793	0.1	CHP	5	787.150	-29.84	-13	Pass
793	805	0.00625	CHP	6	795.151	-73.28	-35	Pass
805	810	0.1	CHP	7	808.635	-68.27	-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	774.958	-57.89	-35	Pass
775	776.9	0.1	CHP	2	776.850	-42.26	-13	Pass
776.9	777	0.03	CHP	3	776.983	-43.90	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-43.36	-13	Pass
787.1	793	0.1	CHP	5	787.150	-41.03	-13	Pass
793	805	0.00625	CHP	6	793.093	-61.45	-35	Pass
805	810	0.1	CHP	7	807.786	-68.31	-13	Pass

6. Field Strength of Spurious Radiation

LTE Band 13 ANT1-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	-70.82	-13	-57.82	-73.96	2.6	5.74	Horizontal	Pass
2331.75	-69.66	-13	-56.66	-72.12	2.96	5.42	Horizontal	Pass
3109.0	-67.66	-13	-54.66	-71.65	3.2	7.19	Horizontal	Pass
1554.5	-70.52	-13	-57.52	-73.66	2.6	5.74	Vertical	Pass
2331.75	-69.43	-13	-56.43	-71.89	2.96	5.42	Vertical	Pass
3109.0	-67.07	-13	-54.07	-71.06	3.2	7.19	Vertical	Pass

LTE Band 13 ANT1-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	-70.91	-40	-30.91	-74.04	2.6	5.73	Horizontal	Pass
2339.25	-69.92	-13	-56.92	-72.39	2.96	5.43	Horizontal	Pass
3119.0	-67.9	-13	-54.9	-71.91	3.21	7.22	Horizontal	Pass
1559.5	-70.86	-40	-30.86	-73.99	2.6	5.73	Vertical	Pass
2339.25	-69.53	-13	-56.53	-72.0	2.96	5.43	Vertical	Pass
3119.0	-67.21	-13	-54.21	-71.22	3.21	7.22	Vertical	Pass

LTE Band 13 ANT1-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	-60.01	-40	-20.01	-63.13	2.6	5.72	Horizontal	Pass
2346.75	-66.14	-13	-53.14	-68.62	2.97	5.45	Horizontal	Pass
3129.0	-67.06	-13	-54.06	-71.09	3.21	7.24	Horizontal	Pass
1564.5	-61.66	-40	-21.66	-64.78	2.6	5.72	Vertical	Pass
2346.75	-67.35	-13	-54.35	-69.83	2.97	5.45	Vertical	Pass
3129.0	-67.4	-13	-54.4	-71.43	3.21	7.24	Vertical	Pass