

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B38_5MHz_EIRP

Band: 38 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2572.5	1	0	21.53	1.81	23.34	<=33.01	Pass
			13	21.76	1.81	23.57	<=33.01	Pass
			24	21.57	1.81	23.38	<=33.01	Pass
		12	0	20.62	1.81	22.43	<=33.01	Pass
			6	20.68	1.81	22.49	<=33.01	Pass
			13	20.58	1.81	22.39	<=33.01	Pass
		25	0	20.63	1.81	22.44	<=33.01	Pass
	2595	1	0	21.30	1.81	23.11	<=33.01	Pass
			13	21.39	1.81	23.20	<=33.01	Pass
			24	21.21	1.81	23.02	<=33.01	Pass
		12	0	20.33	1.81	22.14	<=33.01	Pass
			6	20.30	1.81	22.11	<=33.01	Pass
			13	20.24	1.81	22.05	<=33.01	Pass
		25	0	20.26	1.81	22.07	<=33.01	Pass
	2617.5	1	0	21.13	1.81	22.94	<=33.01	Pass
			13	21.28	1.81	23.09	<=33.01	Pass
			24	21.15	1.81	22.96	<=33.01	Pass
		12	0	20.09	1.81	21.90	<=33.01	Pass
			6	20.08	1.81	21.89	<=33.01	Pass
			13	20.05	1.81	21.86	<=33.01	Pass
		25	0	19.98	1.81	21.79	<=33.01	Pass
16QAM	2572.5	1	0	20.52	1.81	22.33	<=33.01	Pass
			13	20.89	1.81	22.70	<=33.01	Pass
			24	20.77	1.81	22.58	<=33.01	Pass
		12	0	19.57	1.81	21.38	<=33.01	Pass
			6	19.65	1.81	21.46	<=33.01	Pass
			13	19.50	1.81	21.31	<=33.01	Pass
		25	0	19.54	1.81	21.35	<=33.01	Pass
	2595	1	0	20.36	1.81	22.17	<=33.01	Pass
			13	20.32	1.81	22.13	<=33.01	Pass
			24	20.39	1.81	22.20	<=33.01	Pass
		12	0	19.28	1.81	21.09	<=33.01	Pass
			6	19.22	1.81	21.03	<=33.01	Pass
			13	19.19	1.81	21.00	<=33.01	Pass
		25	0	19.26	1.81	21.07	<=33.01	Pass
	2617.5	1	0	20.18	1.81	21.99	<=33.01	Pass
			13	20.05	1.81	21.86	<=33.01	Pass
			24	20.01	1.81	21.82	<=33.01	Pass
		12	0	18.89	1.81	20.70	<=33.01	Pass
			6	19.01	1.81	20.82	<=33.01	Pass
			13	18.88	1.81	20.69	<=33.01	Pass
		25	0	18.95	1.81	20.76	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B38_10MHz_EIRP

Band: 38 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2575	1	0	21.64	1.81	23.45	<=33.01	Pass
			25	21.89	1.81	23.70	<=33.01	Pass
			49	21.51	1.81	23.32	<=33.01	Pass
		25	0	20.68	1.81	22.49	<=33.01	Pass
			13	20.68	1.81	22.49	<=33.01	Pass
			25	20.60	1.81	22.41	<=33.01	Pass
		50	0	20.67	1.81	22.48	<=33.01	Pass
			0	21.45	1.81	23.26	<=33.01	Pass
			25	21.67	1.81	23.48	<=33.01	Pass
	2595	1	49	21.29	1.81	23.10	<=33.01	Pass
			0	20.46	1.81	22.27	<=33.01	Pass
			13	20.39	1.81	22.20	<=33.01	Pass
		25	25	20.28	1.81	22.09	<=33.01	Pass
			0	20.31	1.81	22.12	<=33.01	Pass
			0	21.11	1.81	22.92	<=33.01	Pass
		25	25	21.44	1.81	23.25	<=33.01	Pass
			49	21.15	1.81	22.96	<=33.01	Pass
			0	20.15	1.81	21.96	<=33.01	Pass
16QAM	2575	1	13	20.08	1.81	21.89	<=33.01	Pass
			25	20.08	1.81	21.89	<=33.01	Pass
			0	20.02	1.81	21.83	<=33.01	Pass
		25	0	20.69	1.81	22.50	<=33.01	Pass
			25	20.89	1.81	22.70	<=33.01	Pass
			49	20.53	1.81	22.34	<=33.01	Pass
		50	0	19.76	1.81	21.57	<=33.01	Pass
			13	19.63	1.81	21.44	<=33.01	Pass
			25	19.52	1.81	21.33	<=33.01	Pass
	2595	1	0	19.58	1.81	21.39	<=33.01	Pass
			0	20.32	1.81	22.13	<=33.01	Pass
			25	20.37	1.81	22.18	<=33.01	Pass
		25	49	20.12	1.81	21.93	<=33.01	Pass
			0	19.39	1.81	21.20	<=33.01	Pass
			13	19.34	1.81	21.15	<=33.01	Pass
		50	25	19.25	1.81	21.06	<=33.01	Pass
			0	19.29	1.81	21.10	<=33.01	Pass
			0	19.87	1.81	21.68	<=33.01	Pass
	2615	1	25	20.15	1.81	21.96	<=33.01	Pass
			49	19.88	1.81	21.69	<=33.01	Pass
			0	19.06	1.81	20.87	<=33.01	Pass
		25	13	19.05	1.81	20.86	<=33.01	Pass
			25	18.98	1.81	20.79	<=33.01	Pass
			0	18.96	1.81	20.77	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B38_15MHz_EIRP

Band: 38 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2577.5	1	0	21.43	1.81	23.24	<=33.01	Pass
			38	21.63	1.81	23.44	<=33.01	Pass
			74	21.34	1.81	23.15	<=33.01	Pass
		36	0	20.74	1.81	22.55	<=33.01	Pass
			18	20.69	1.81	22.50	<=33.01	Pass
			39	20.57	1.81	22.38	<=33.01	Pass
		75	0	20.59	1.81	22.40	<=33.01	Pass
	2595	1	0	21.44	1.81	23.25	<=33.01	Pass
			38	21.34	1.81	23.15	<=33.01	Pass
			74	21.24	1.81	23.05	<=33.01	Pass
		36	0	20.49	1.81	22.30	<=33.01	Pass
			18	20.45	1.81	22.26	<=33.01	Pass
			39	20.31	1.81	22.12	<=33.01	Pass
		75	0	20.42	1.81	22.23	<=33.01	Pass
	2612.5	1	0	21.12	1.81	22.93	<=33.01	Pass
			38	21.16	1.81	22.97	<=33.01	Pass
			74	21.02	1.81	22.83	<=33.01	Pass
		36	0	20.25	1.81	22.06	<=33.01	Pass
			18	20.17	1.81	21.98	<=33.01	Pass
			39	20.15	1.81	21.96	<=33.01	Pass
		75	0	20.16	1.81	21.97	<=33.01	Pass
16QAM	2577.5	1	0	20.57	1.81	22.38	<=33.01	Pass
			38	20.56	1.81	22.37	<=33.01	Pass
			74	20.12	1.81	21.93	<=33.01	Pass
		36	0	19.56	1.81	21.37	<=33.01	Pass
			18	19.72	1.81	21.53	<=33.01	Pass
			39	19.44	1.81	21.25	<=33.01	Pass
		75	0	19.50	1.81	21.31	<=33.01	Pass
	2595	1	0	20.28	1.81	22.09	<=33.01	Pass
			38	20.65	1.81	22.46	<=33.01	Pass
			74	20.05	1.81	21.86	<=33.01	Pass
		36	0	19.37	1.81	21.18	<=33.01	Pass
			18	19.32	1.81	21.13	<=33.01	Pass
			39	19.19	1.81	21.00	<=33.01	Pass
		75	0	19.35	1.81	21.16	<=33.01	Pass
	2612.5	1	0	19.75	1.81	21.56	<=33.01	Pass
			38	19.84	1.81	21.65	<=33.01	Pass
			74	19.78	1.81	21.59	<=33.01	Pass
		36	0	19.12	1.81	20.93	<=33.01	Pass
			18	19.07	1.81	20.88	<=33.01	Pass
			39	18.95	1.81	20.76	<=33.01	Pass
		75	0	19.11	1.81	20.92	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B38_20MHz_EIRP

Band: 38 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2580	1	0	21.55	1.81	23.36	<=33.01	Pass
			50	21.83	1.81	23.64	<=33.01	Pass
			99	21.74	1.81	23.55	<=33.01	Pass
		50	0	20.79	1.81	22.60	<=33.01	Pass
			25	20.66	1.81	22.47	<=33.01	Pass
			50	20.39	1.81	22.20	<=33.01	Pass
		100	0	20.54	1.81	22.35	<=33.01	Pass
	2595	1	0	21.24	1.81	23.05	<=33.01	Pass
			50	21.58	1.81	23.39	<=33.01	Pass
			99	21.51	1.81	23.32	<=33.01	Pass
		50	0	20.39	1.81	22.20	<=33.01	Pass
			25	20.33	1.81	22.14	<=33.01	Pass
			50	20.13	1.81	21.94	<=33.01	Pass
		100	0	20.30	1.81	22.11	<=33.01	Pass
	2610	1	0	21.05	1.81	22.86	<=33.01	Pass
			50	21.32	1.81	23.13	<=33.01	Pass
			99	21.46	1.81	23.27	<=33.01	Pass
		50	0	20.15	1.81	21.96	<=33.01	Pass
			25	20.13	1.81	21.94	<=33.01	Pass
			50	19.93	1.81	21.74	<=33.01	Pass
		100	0	20.15	1.81	21.96	<=33.01	Pass
16QAM	2580	1	0	20.34	1.81	22.15	<=33.01	Pass
			50	20.57	1.81	22.38	<=33.01	Pass
			99	20.66	1.81	22.47	<=33.01	Pass
		50	0	19.74	1.81	21.55	<=33.01	Pass
			25	19.64	1.81	21.45	<=33.01	Pass
			50	19.37	1.81	21.18	<=33.01	Pass
		100	0	19.50	1.81	21.31	<=33.01	Pass
	2595	1	0	20.14	1.81	21.95	<=33.01	Pass
			50	20.42	1.81	22.23	<=33.01	Pass
			99	20.01	1.81	21.82	<=33.01	Pass
		50	0	19.43	1.81	21.24	<=33.01	Pass
			25	19.40	1.81	21.21	<=33.01	Pass
			50	19.18	1.81	20.99	<=33.01	Pass
		100	0	19.39	1.81	21.20	<=33.01	Pass
	2610	1	0	19.95	1.81	21.76	<=33.01	Pass
			50	19.94	1.81	21.75	<=33.01	Pass
			99	19.99	1.81	21.80	<=33.01	Pass
		50	0	19.13	1.81	20.94	<=33.01	Pass
			25	19.10	1.81	20.91	<=33.01	Pass
			50	18.93	1.81	20.74	<=33.01	Pass
		100	0	19.12	1.81	20.93	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2572.5	25	0	20	3.27	-14.219	-0.0055	-2.5 to 2.5	Pass
					3.85	-24.076	-0.0094	-2.5 to 2.5	Pass
					4.43	-26.093	-0.0101	-2.5 to 2.5	Pass
				-30	3.85	-29.440	-0.0114	-2.5 to 2.5	Pass
				-20	3.85	-34.232	-0.0133	-2.5 to 2.5	Pass
				-10	3.85	-71.411	-0.0278	-2.5 to 2.5	Pass
				0	3.85	-71.597	-0.0278	-2.5 to 2.5	Pass
				10	3.85	-80.495	-0.0313	-2.5 to 2.5	Pass
				30	3.85	-63.415	-0.0247	-2.5 to 2.5	Pass
				40	3.85	-70.753	-0.0275	-2.5 to 2.5	Pass
				50	3.85	-60.525	-0.0235	-2.5 to 2.5	Pass
	2595	25	0	20	3.27	2.689	0.0010	-2.5 to 2.5	Pass
					3.85	2.875	0.0011	-2.5 to 2.5	Pass
					4.43	8.211	0.0032	-2.5 to 2.5	Pass
				-30	3.85	-13.933	-0.0054	-2.5 to 2.5	Pass
				-20	3.85	-6.437	-0.0025	-2.5 to 2.5	Pass
				-10	3.85	7.038	0.0027	-2.5 to 2.5	Pass
				0	3.85	12.174	0.0047	-2.5 to 2.5	Pass
				10	3.85	-3.090	-0.0012	-2.5 to 2.5	Pass
				30	3.85	7.195	0.0028	-2.5 to 2.5	Pass
				40	3.85	5.279	0.0020	-2.5 to 2.5	Pass
				50	3.85	10.071	0.0039	-2.5 to 2.5	Pass
	2617.5	25	0	20	3.27	7.739	0.0030	-2.5 to 2.5	Pass
					3.85	7.024	0.0027	-2.5 to 2.5	Pass
					4.43	7.095	0.0027	-2.5 to 2.5	Pass
				-30	3.85	5.322	0.0020	-2.5 to 2.5	Pass
				-20	3.85	-19.312	-0.0074	-2.5 to 2.5	Pass
				-10	3.85	14.405	0.0055	-2.5 to 2.5	Pass
				0	3.85	15.893	0.0061	-2.5 to 2.5	Pass
				10	3.85	10.057	0.0038	-2.5 to 2.5	Pass
				30	3.85	-6.094	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-15.063	-0.0058	-2.5 to 2.5	Pass
				50	3.85	20.342	0.0078	-2.5 to 2.5	Pass
16QAM	2572.5	25	0	20	3.27	-77.419	-0.0301	-2.5 to 2.5	Pass
					3.85	-86.517	-0.0336	-2.5 to 2.5	Pass
					4.43	-55.304	-0.0215	-2.5 to 2.5	Pass
				-30	3.85	-72.613	-0.0282	-2.5 to 2.5	Pass
				-20	3.85	-60.153	-0.0234	-2.5 to 2.5	Pass
				-10	3.85	-63.143	-0.0245	-2.5 to 2.5	Pass
				0	3.85	-56.591	-0.0220	-2.5 to 2.5	Pass
				10	3.85	-66.047	-0.0257	-2.5 to 2.5	Pass
				30	3.85	-52.099	-0.0203	-2.5 to 2.5	Pass
				40	3.85	-64.573	-0.0251	-2.5 to 2.5	Pass
				50	3.85	-64.173	-0.0249	-2.5 to 2.5	Pass
	2595	25	0	20	3.27	13.733	0.0053	-2.5 to 2.5	Pass
					3.85	9.012	0.0035	-2.5 to 2.5	Pass
					4.43	7.167	0.0028	-2.5 to 2.5	Pass
				-30	3.85	12.302	0.0047	-2.5 to 2.5	Pass
				-20	3.85	0.386	0.0001	-2.5 to 2.5	Pass
				-10	3.85	3.462	0.0013	-2.5 to 2.5	Pass

				0	3.85	33.345	0.0128	-2.5 to 2.5	Pass
				10	3.85	24.991	0.0096	-2.5 to 2.5	Pass
				30	3.85	32.802	0.0126	-2.5 to 2.5	Pass
				40	3.85	24.862	0.0096	-2.5 to 2.5	Pass
				50	3.85	35.019	0.0135	-2.5 to 2.5	Pass
	2617.5	25	0	20	3.27	3.347	0.0013	-2.5 to 2.5	Pass
					3.85	-5.164	-0.0020	-2.5 to 2.5	Pass
					4.43	-11.172	-0.0043	-2.5 to 2.5	Pass
				-30	3.85	-5.479	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	-4.606	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	-2.918	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-18.482	-0.0071	-2.5 to 2.5	Pass
				10	3.85	-1.860	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-7.625	-0.0029	-2.5 to 2.5	Pass
				40	3.85	-2.904	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-14.019	-0.0054	-2.5 to 2.5	Pass

2.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2575	50	0	20	3.27	-6.795	-0.0026	-2.5 to 2.5	Pass
					3.85	-22.073	-0.0086	-2.5 to 2.5	Pass
					4.43	-14.319	-0.0056	-2.5 to 2.5	Pass
				-30	3.85	-19.140	-0.0074	-2.5 to 2.5	Pass
				-20	3.85	-10.228	-0.0040	-2.5 to 2.5	Pass
				-10	3.85	-17.052	-0.0066	-2.5 to 2.5	Pass
				0	3.85	-22.302	-0.0087	-2.5 to 2.5	Pass
				10	3.85	-8.569	-0.0033	-2.5 to 2.5	Pass
				30	3.85	-1.159	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-16.522	-0.0064	-2.5 to 2.5	Pass
	2595	50	0	20	3.27	2.375	0.0009	-2.5 to 2.5	Pass
					3.85	-19.956	-0.0077	-2.5 to 2.5	Pass
					4.43	-12.460	-0.0048	-2.5 to 2.5	Pass
				-30	3.85	-4.363	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-19.827	-0.0076	-2.5 to 2.5	Pass
				-10	3.85	-8.655	-0.0033	-2.5 to 2.5	Pass
				0	3.85	-9.971	-0.0038	-2.5 to 2.5	Pass
				10	3.85	-5.593	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-15.922	-0.0061	-2.5 to 2.5	Pass
				40	3.85	-4.735	-0.0018	-2.5 to 2.5	Pass
	2615	50	0	20	3.27	-6.495	-0.0025	-2.5 to 2.5	Pass
					3.85	-12.660	-0.0048	-2.5 to 2.5	Pass
					4.43	-17.767	-0.0068	-2.5 to 2.5	Pass
				-30	3.85	-16.594	-0.0063	-2.5 to 2.5	Pass
				-20	3.85	-7.424	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-5.336	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-19.069	-0.0073	-2.5 to 2.5	Pass
				10	3.85	-2.074	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-7.925	-0.0030	-2.5 to 2.5	Pass
				40	3.85	-5.536	-0.0021	-2.5 to 2.5	Pass
16QAM	2575	50	0	20	3.27	0.300	0.0001	-2.5 to 2.5	Pass
					3.85	-9.956	-0.0039	-2.5 to 2.5	Pass
					4.43	-4.492	-0.0017	-2.5 to 2.5	Pass

				-30	3.85	-16.351	-0.0063	-2.5 to 2.5	Pass
				-20	3.85	-19.698	-0.0076	-2.5 to 2.5	Pass
				-10	3.85	-15.078	-0.0059	-2.5 to 2.5	Pass
				0	3.85	-9.699	-0.0038	-2.5 to 2.5	Pass
				10	3.85	-9.198	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-6.881	-0.0027	-2.5 to 2.5	Pass
				40	3.85	-15.450	-0.0060	-2.5 to 2.5	Pass
				50	3.85	-9.871	-0.0038	-2.5 to 2.5	Pass
	2595	50	0	20	3.27	-4.349	-0.0017	-2.5 to 2.5	Pass
					3.85	3.090	0.0012	-2.5 to 2.5	Pass
					4.43	-3.405	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-12.460	-0.0048	-2.5 to 2.5	Pass
				-20	3.85	-8.740	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	-5.207	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-12.746	-0.0049	-2.5 to 2.5	Pass
				10	3.85	-7.267	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-17.180	-0.0066	-2.5 to 2.5	Pass
				40	3.85	-10.300	-0.0040	-2.5 to 2.5	Pass
				50	3.85	-12.474	-0.0048	-2.5 to 2.5	Pass
	2615	50	0	20	3.27	-3.076	-0.0012	-2.5 to 2.5	Pass
					3.85	-7.710	-0.0029	-2.5 to 2.5	Pass
					4.43	-3.347	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-16.665	-0.0064	-2.5 to 2.5	Pass
				-20	3.85	-8.125	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	-7.539	-0.0029	-2.5 to 2.5	Pass
				0	3.85	-9.999	-0.0038	-2.5 to 2.5	Pass
				10	3.85	-15.821	-0.0061	-2.5 to 2.5	Pass
				30	3.85	-4.921	-0.0019	-2.5 to 2.5	Pass
				40	3.85	-8.726	-0.0033	-2.5 to 2.5	Pass
				50	3.85	-9.327	-0.0036	-2.5 to 2.5	Pass

2.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2577.5	75	0	20	3.27	-3.805	-0.0015	-2.5 to 2.5	Pass
					3.85	-11.544	-0.0045	-2.5 to 2.5	Pass
					4.43	-5.064	-0.0020	-2.5 to 2.5	Pass
				-30	3.85	-7.124	-0.0028	-2.5 to 2.5	Pass
				-20	3.85	-5.379	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-6.394	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-5.164	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-6.981	-0.0027	-2.5 to 2.5	Pass
				30	3.85	-8.383	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-9.284	-0.0036	-2.5 to 2.5	Pass
				50	3.85	-16.551	-0.0064	-2.5 to 2.5	Pass
	2595	75	0	20	3.27	-11.830	-0.0046	-2.5 to 2.5	Pass
					3.85	-12.474	-0.0048	-2.5 to 2.5	Pass
					4.43	-5.207	-0.0020	-2.5 to 2.5	Pass
				-30	3.85	-7.839	-0.0030	-2.5 to 2.5	Pass
				-20	3.85	-11.001	-0.0042	-2.5 to 2.5	Pass
				-10	3.85	1.245	0.0005	-2.5 to 2.5	Pass
				0	3.85	2.832	0.0011	-2.5 to 2.5	Pass
				10	3.85	-3.304	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-15.092	-0.0058	-2.5 to 2.5	Pass
				40	3.85	-10.600	-0.0041	-2.5 to 2.5	Pass
				50	3.85	0.043	0.0000	-2.5 to 2.5	Pass

	2612.5	75	0	20	3.27	-1.588	-0.0006	-2.5 to 2.5	Pass
					3.85	-11.473	-0.0044	-2.5 to 2.5	Pass
					4.43	-11.015	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-12.317	-0.0047	-2.5 to 2.5	Pass
				-20	3.85	-2.346	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-13.003	-0.0050	-2.5 to 2.5	Pass
				0	3.85	-4.463	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-9.885	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-11.816	-0.0045	-2.5 to 2.5	Pass
				40	3.85	-6.781	-0.0026	-2.5 to 2.5	Pass
				50	3.85	-2.489	-0.0010	-2.5 to 2.5	Pass
16QAM	2577.5	75	0	20	3.27	-16.179	-0.0063	-2.5 to 2.5	Pass
					3.85	-10.386	-0.0040	-2.5 to 2.5	Pass
					4.43	-8.669	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-2.089	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-8.583	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-17.066	-0.0066	-2.5 to 2.5	Pass
				0	3.85	-8.497	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-6.266	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-14.877	-0.0058	-2.5 to 2.5	Pass
				40	3.85	0.329	0.0001	-2.5 to 2.5	Pass
				50	3.85	-8.841	-0.0034	-2.5 to 2.5	Pass
	2595	75	0	20	3.27	-2.375	-0.0009	-2.5 to 2.5	Pass
					3.85	-12.417	-0.0048	-2.5 to 2.5	Pass
					4.43	-7.825	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	-1.473	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-12.860	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-12.403	-0.0048	-2.5 to 2.5	Pass
				0	3.85	1.330	0.0005	-2.5 to 2.5	Pass
				10	3.85	-9.341	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-0.529	-0.0002	-2.5 to 2.5	Pass
				40	3.85	-0.672	-0.0003	-2.5 to 2.5	Pass
				50	3.85	-9.685	-0.0037	-2.5 to 2.5	Pass
	2612.5	75	0	20	3.27	-6.580	-0.0025	-2.5 to 2.5	Pass
					3.85	-7.467	-0.0029	-2.5 to 2.5	Pass
					4.43	-6.223	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	-12.317	-0.0047	-2.5 to 2.5	Pass
				-20	3.85	1.202	0.0005	-2.5 to 2.5	Pass
				-10	3.85	-3.362	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-4.807	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-6.123	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-13.247	-0.0051	-2.5 to 2.5	Pass
				40	3.85	-9.828	-0.0038	-2.5 to 2.5	Pass
				50	3.85	-14.606	-0.0056	-2.5 to 2.5	Pass

2.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2580	100	0	20	3.27	-12.732	-0.0049	-2.5 to 2.5	Pass
					3.85	-13.103	-0.0051	-2.5 to 2.5	Pass
					4.43	-3.433	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-7.453	-0.0029	-2.5 to 2.5	Pass
				-20	3.85	-4.606	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	-6.495	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-4.406	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-10.157	-0.0039	-2.5 to 2.5	Pass

				30	3.85	-5.422	-0.0021	-2.5 to 2.5	Pass
				40	3.85	-13.790	-0.0053	-2.5 to 2.5	Pass
				50	3.85	-1.888	-0.0007	-2.5 to 2.5	Pass
	2595	100	0	20	3.27	-4.191	-0.0016	-2.5 to 2.5	Pass
					3.85	-7.739	-0.0030	-2.5 to 2.5	Pass
					4.43	-2.861	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-9.971	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-8.168	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	-15.779	-0.0061	-2.5 to 2.5	Pass
				0	3.85	-7.782	-0.0030	-2.5 to 2.5	Pass
				10	3.85	-10.300	-0.0040	-2.5 to 2.5	Pass
				30	3.85	-5.336	-0.0021	-2.5 to 2.5	Pass
				40	3.85	-5.093	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-5.436	-0.0021	-2.5 to 2.5	Pass
	2610	100	0	20	3.27	-5.665	-0.0022	-2.5 to 2.5	Pass
					3.85	-15.507	-0.0059	-2.5 to 2.5	Pass
					4.43	-8.183	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	-5.550	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	-3.290	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-10.986	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-7.224	-0.0028	-2.5 to 2.5	Pass
				10	3.85	-6.123	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-9.470	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-9.298	-0.0036	-2.5 to 2.5	Pass
				50	3.85	-4.706	-0.0018	-2.5 to 2.5	Pass
16QAM	2580	100	0	20	3.27	-10.357	-0.0040	-2.5 to 2.5	Pass
					3.85	-5.064	-0.0020	-2.5 to 2.5	Pass
					4.43	-8.097	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	-13.604	-0.0053	-2.5 to 2.5	Pass
				-20	3.85	-7.782	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-3.390	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-6.251	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-3.762	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-4.964	-0.0019	-2.5 to 2.5	Pass
				40	3.85	-12.145	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-8.883	-0.0034	-2.5 to 2.5	Pass
	2595	100	0	20	3.27	-5.350	-0.0021	-2.5 to 2.5	Pass
					3.85	-14.434	-0.0056	-2.5 to 2.5	Pass
					4.43	-8.812	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-7.052	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-1.101	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	-8.898	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-9.284	-0.0036	-2.5 to 2.5	Pass
				10	3.85	-9.727	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-15.235	-0.0059	-2.5 to 2.5	Pass
				40	3.85	-2.446	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-7.195	-0.0028	-2.5 to 2.5	Pass
	2610	100	0	20	3.27	-11.272	-0.0043	-2.5 to 2.5	Pass
					3.85	-12.317	-0.0047	-2.5 to 2.5	Pass
					4.43	-9.999	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-4.406	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-12.689	-0.0049	-2.5 to 2.5	Pass
				-10	3.85	-0.157	-0.0001	-2.5 to 2.5	Pass
				0	3.85	-8.612	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-7.310	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-3.548	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-8.254	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-5.307	-0.0020	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	25	0	Refer To Test Graph		Pass
16QAM	2595	25	0	Refer To Test Graph		Pass

3.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	50	0	Refer To Test Graph		Pass
16QAM	2595	50	0	Refer To Test Graph		Pass

3.1.3 B38_15MHz

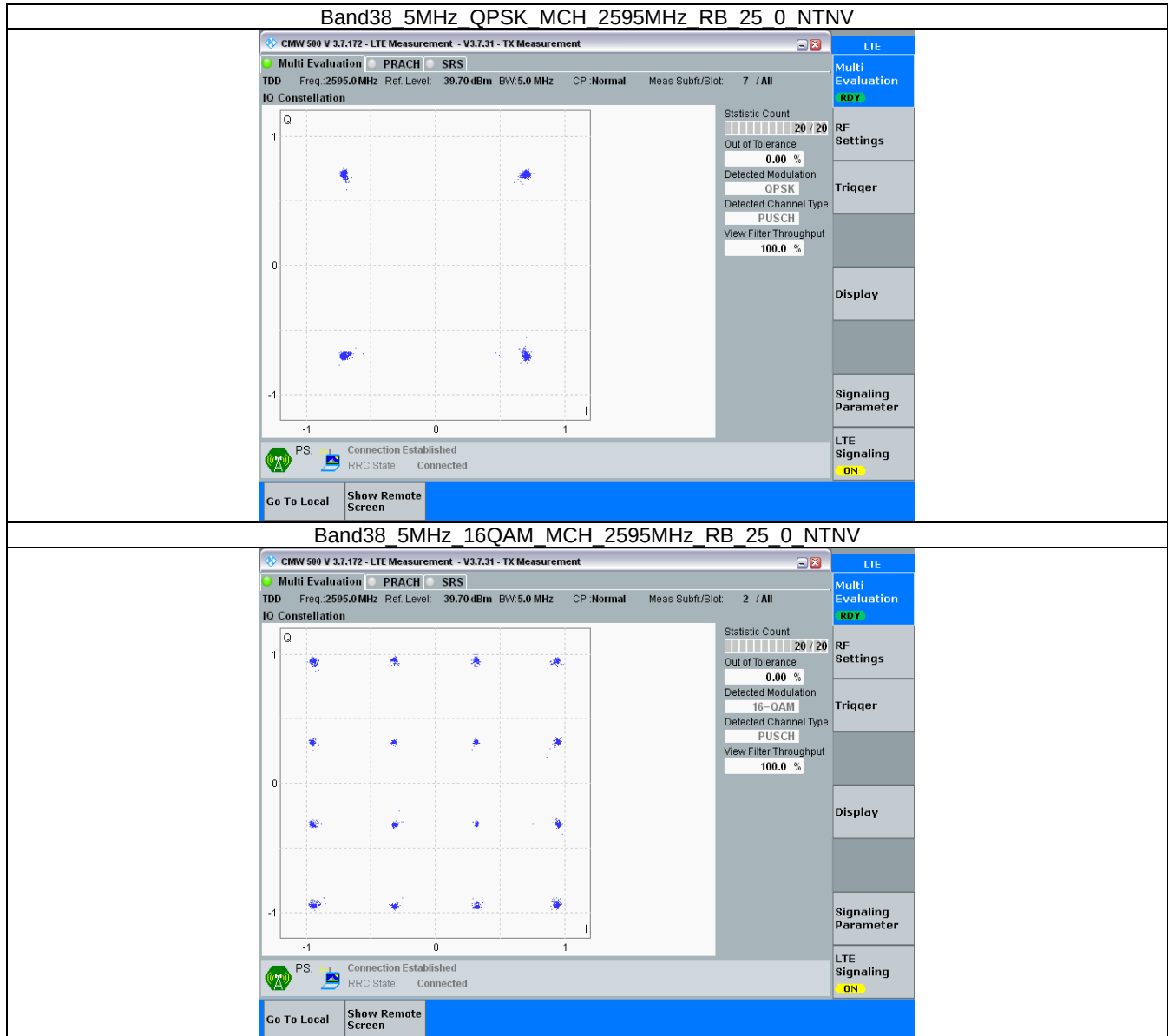
Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	75	0	Refer To Test Graph		Pass
16QAM	2595	75	0	Refer To Test Graph		Pass

3.1.4 B38_20MHz

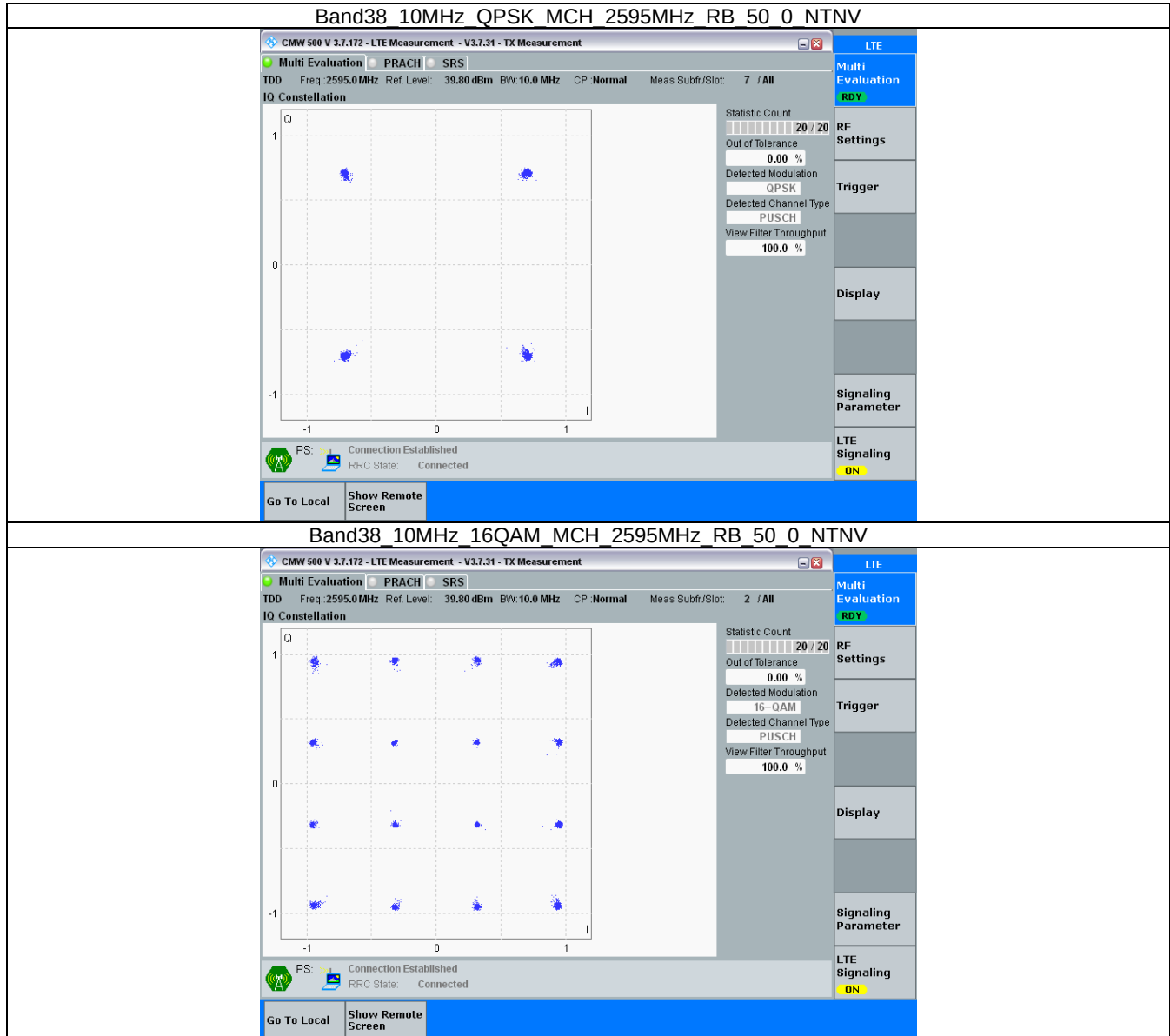
Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	100	0	Refer To Test Graph		Pass
16QAM	2595	100	0	Refer To Test Graph		Pass

3.2 Test Graph

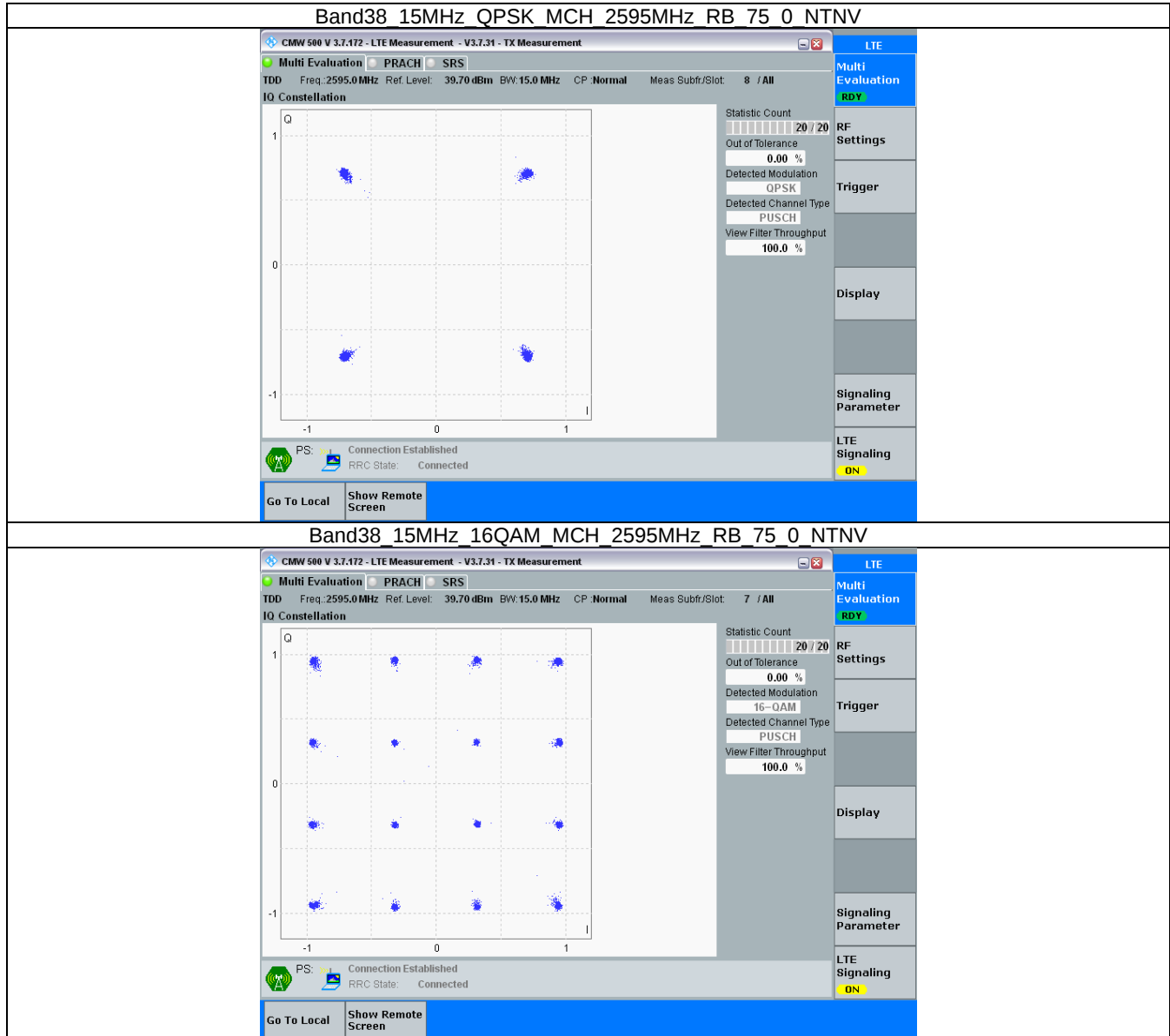
3.2.1 B38_5MHz



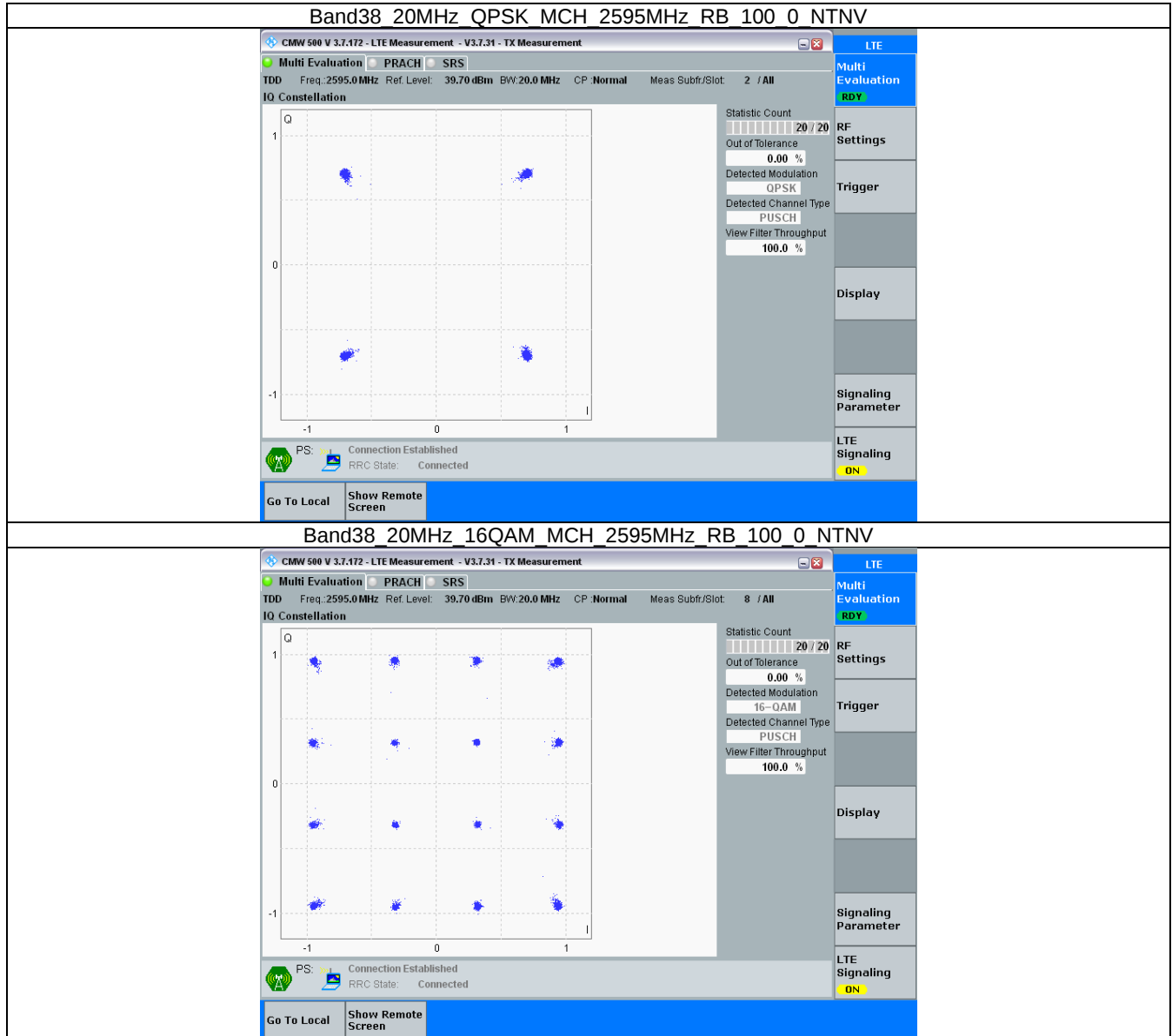
3.2.2 B38_10MHz



3.2.3 B38_15MHz



3.2.4 B38_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band38_OBW

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	4.549	/	Pass
		2595	25	0	4.541	/	Pass
		2617.5	25	0	4.549	/	Pass
	16QAM	2572.5	25	0	4.532	/	Pass
		2595	25	0	4.529	/	Pass
		2617.5	25	0	4.554	/	Pass
10	QPSK	2575	50	0	9.084	/	Pass
		2595	50	0	9.082	/	Pass
		2615	50	0	9.085	/	Pass
	16QAM	2575	50	0	9.067	/	Pass
		2595	50	0	9.046	/	Pass
		2615	50	0	9.057	/	Pass
15	QPSK	2577.5	75	0	13.548	/	Pass
		2595	75	0	13.601	/	Pass
		2612.5	75	0	13.646	/	Pass
	16QAM	2577.5	75	0	13.625	/	Pass
		2595	75	0	13.582	/	Pass
		2612.5	75	0	13.615	/	Pass
20	QPSK	2580	100	0	18.091	/	Pass
		2595	100	0	18.160	/	Pass
		2610	100	0	18.185	/	Pass
	16QAM	2580	100	0	18.104	/	Pass
		2595	100	0	18.113	/	Pass
		2610	100	0	18.154	/	Pass

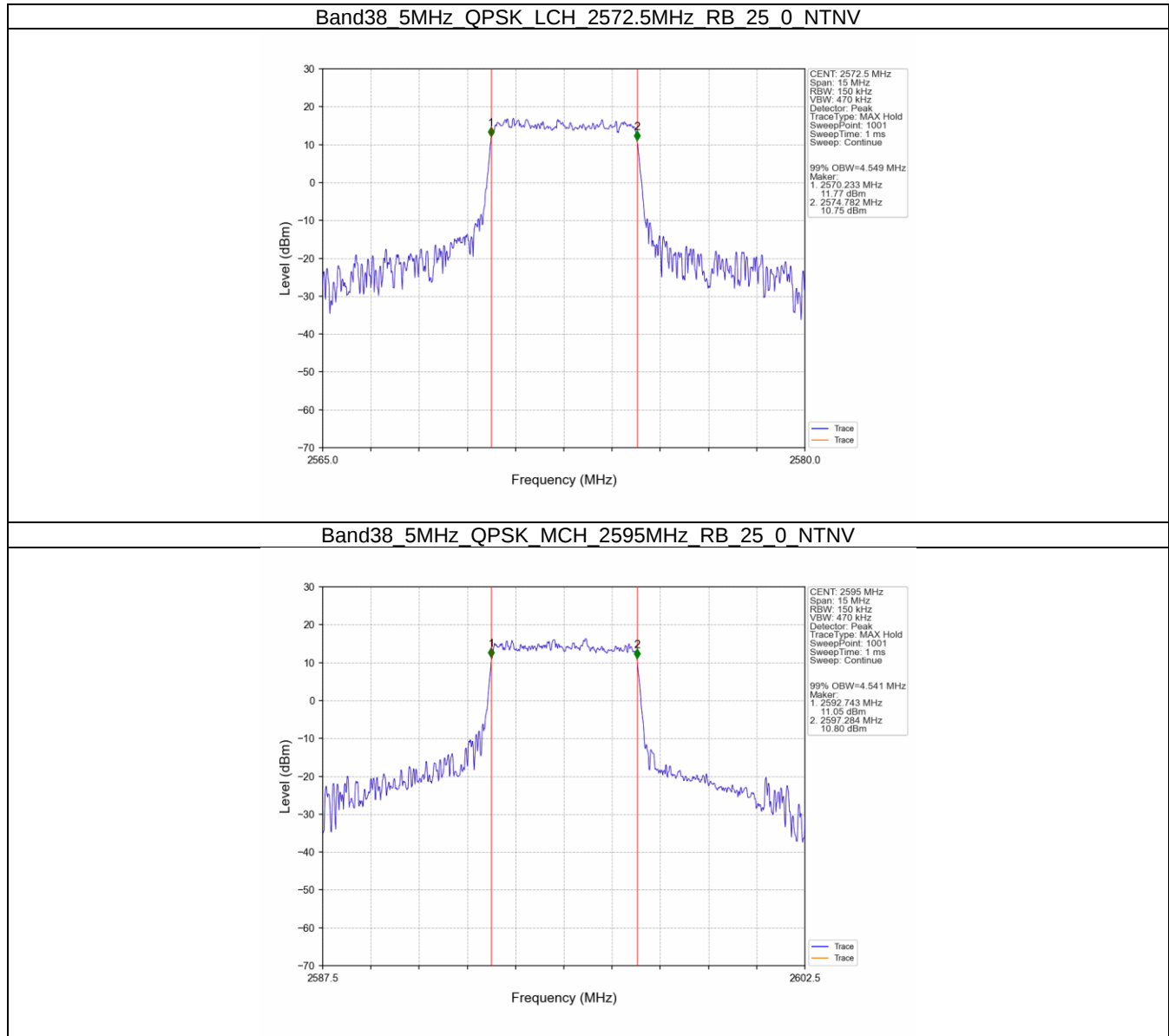
4.1.2 Band38_XDB

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.102	/	Pass
		2595	25	0	5.241	/	Pass
		2617.5	25	0	5.159	/	Pass
	16QAM	2572.5	25	0	5.303	/	Pass
		2595	25	0	5.153	/	Pass
		2617.5	25	0	5.066	/	Pass
10	QPSK	2575	50	0	10.749	/	Pass
		2595	50	0	9.866	/	Pass
		2615	50	0	10.642	/	Pass
	16QAM	2575	50	0	10.538	/	Pass
		2595	50	0	10.615	/	Pass
		2615	50	0	10.574	/	Pass
15	QPSK	2577.5	75	0	15.221	/	Pass
		2595	75	0	14.832	/	Pass
		2612.5	75	0	16.506	/	Pass

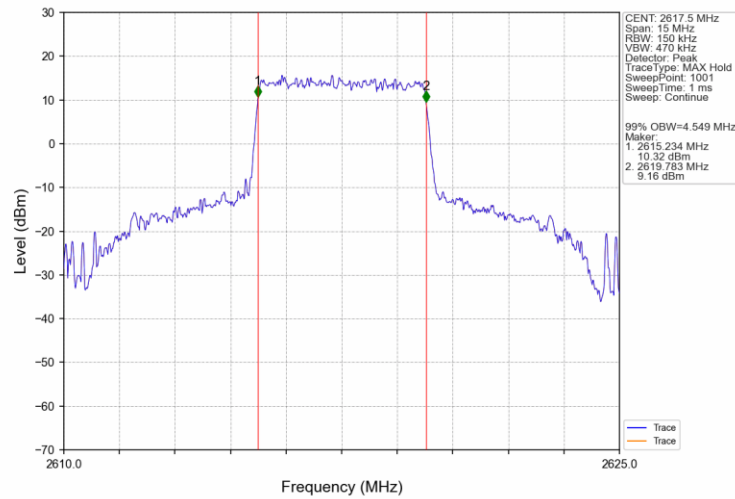
20	16QAM	2577.5	75	0	17.527	/	Pass
		2595	75	0	14.945	/	Pass
		2612.5	75	0	15.070	/	Pass
	QPSK	2580	100	0	21.417	/	Pass
		2595	100	0	19.628	/	Pass
		2610	100	0	20.456	/	Pass
	16QAM	2580	100	0	24.329	/	Pass
		2595	100	0	20.913	/	Pass
		2610	100	0	19.676	/	Pass

4.2 Test Graph

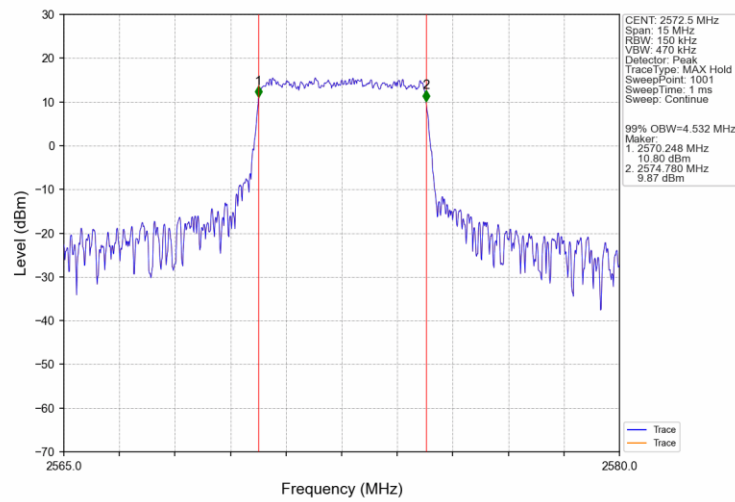
4.2.1 Band38_OBW



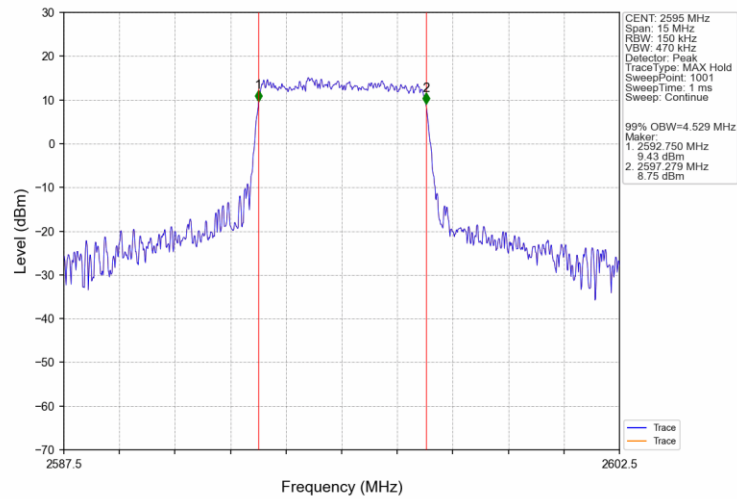
Band38 5MHz QPSK HCH 2617.5MHz RB 25 0 NTNV



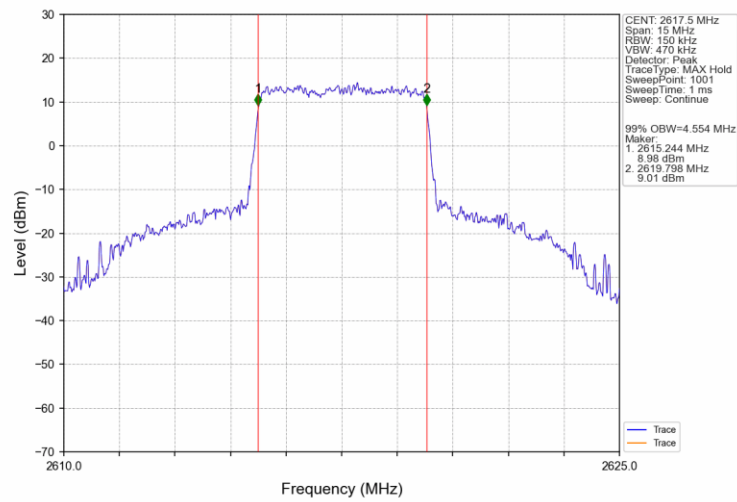
Band38 5MHz 16QAM LCH 2572.5MHz RB 25 0 NTNV



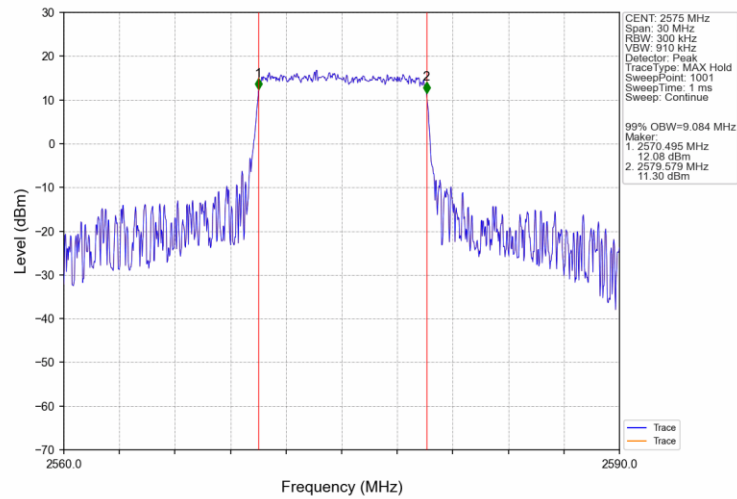
Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



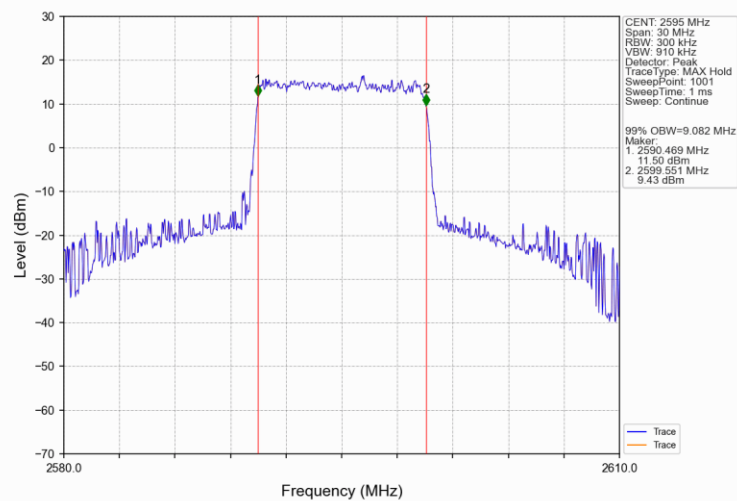
Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



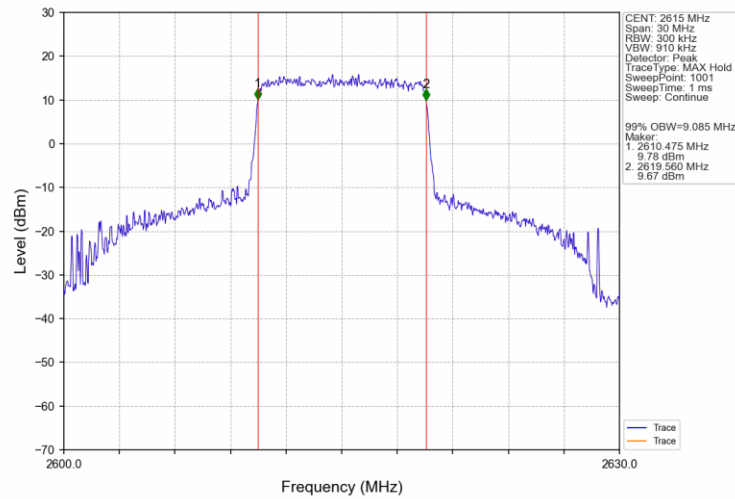
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



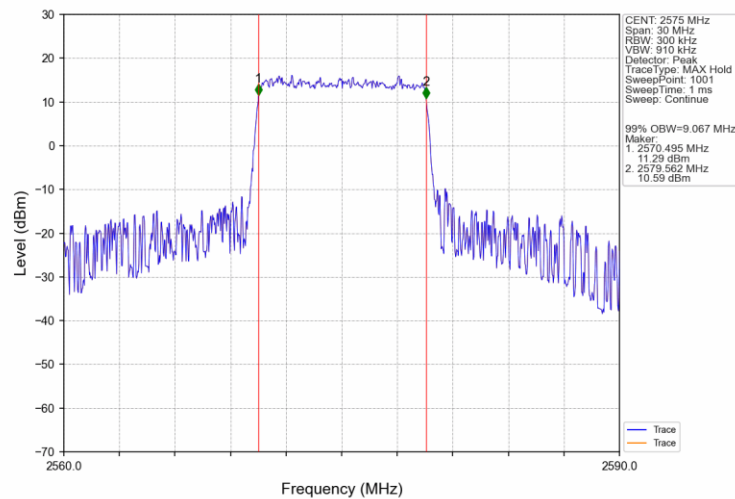
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



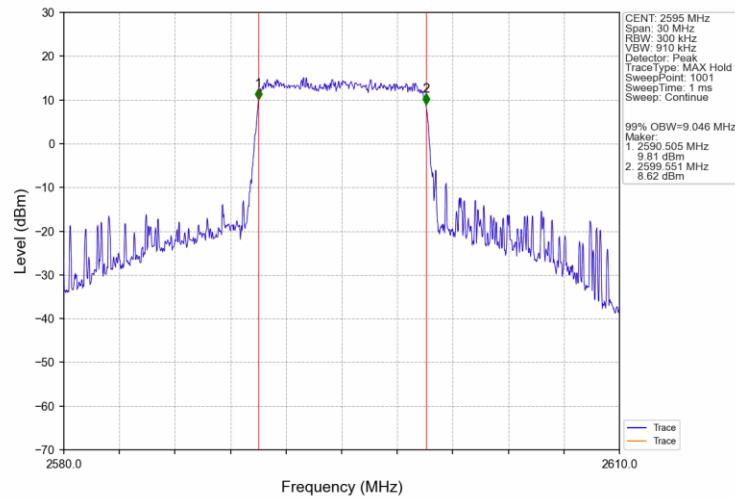
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



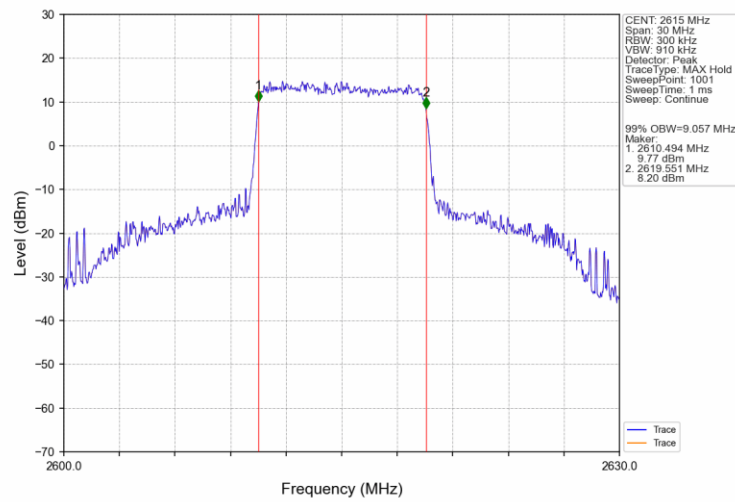
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



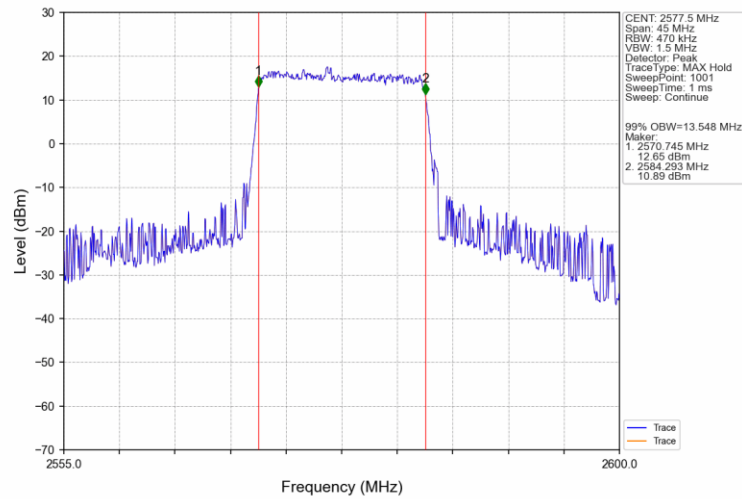
Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTN



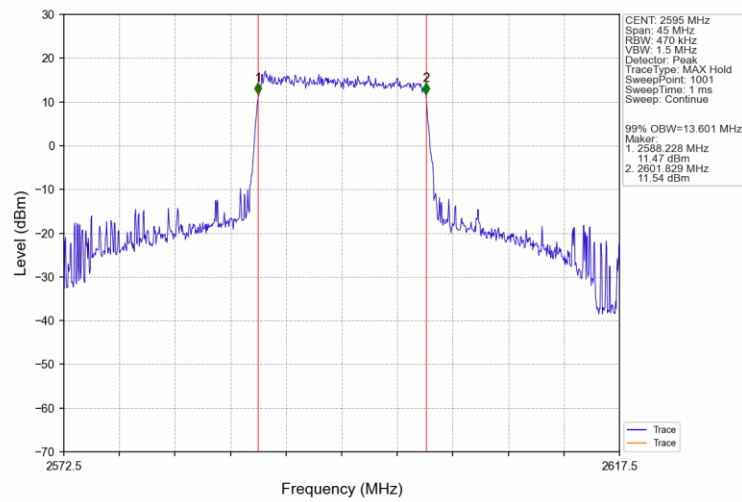
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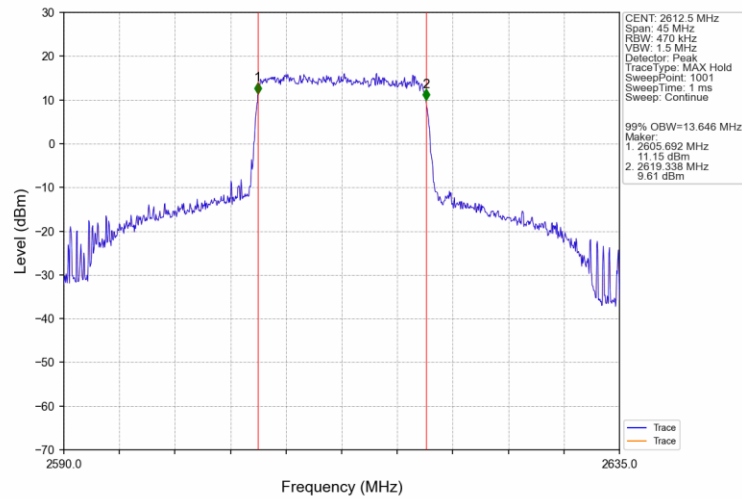
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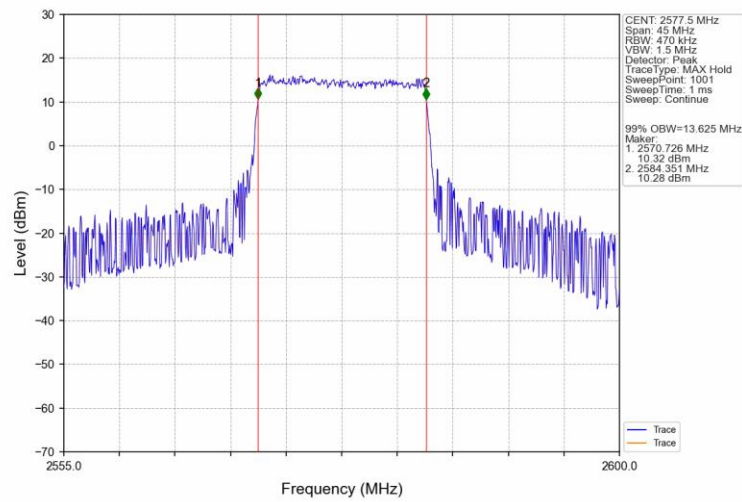
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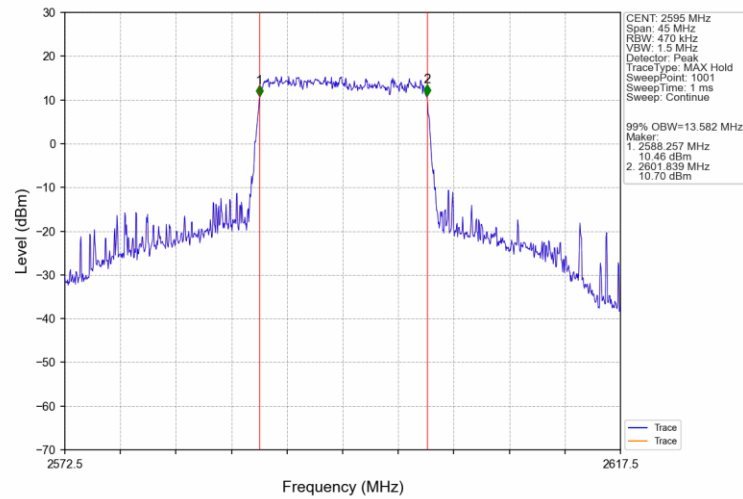
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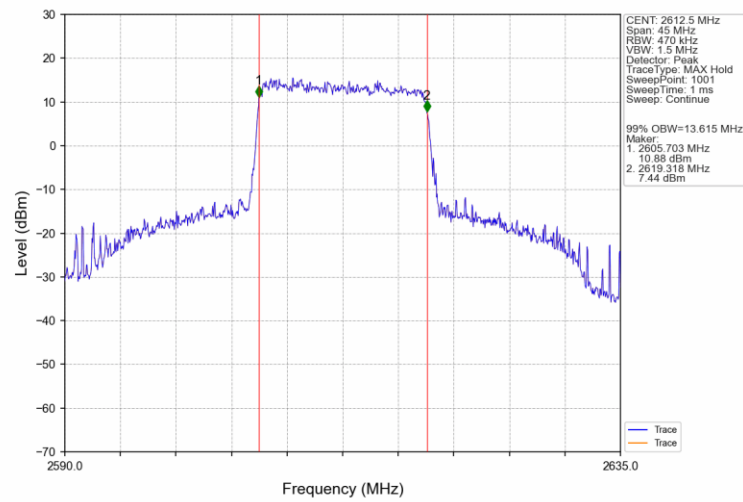
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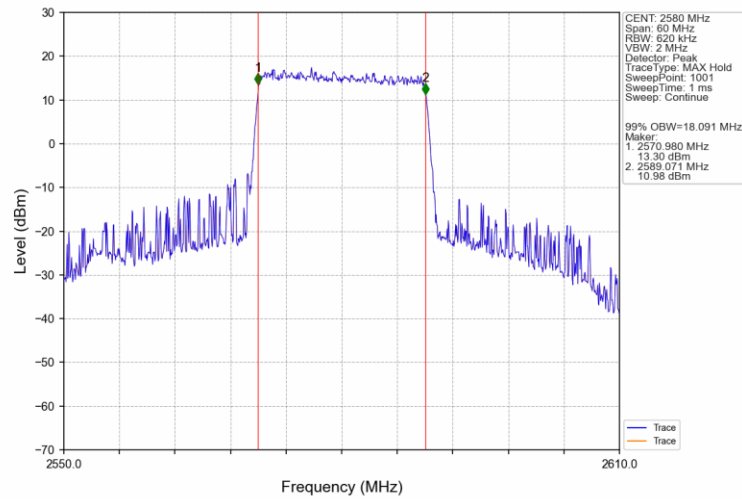
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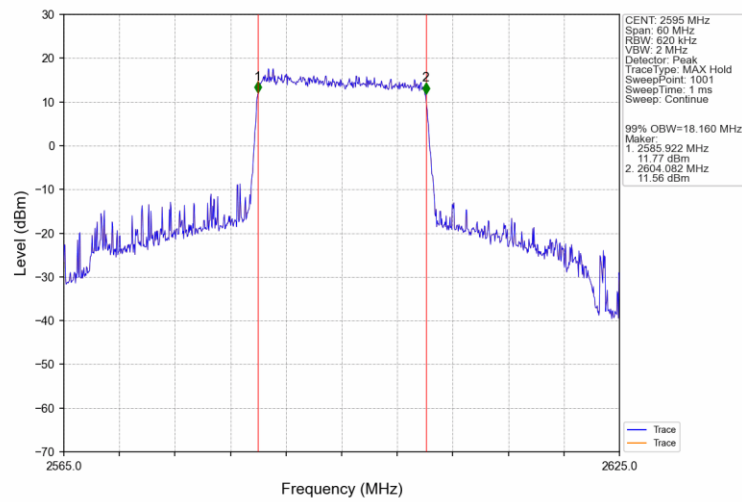
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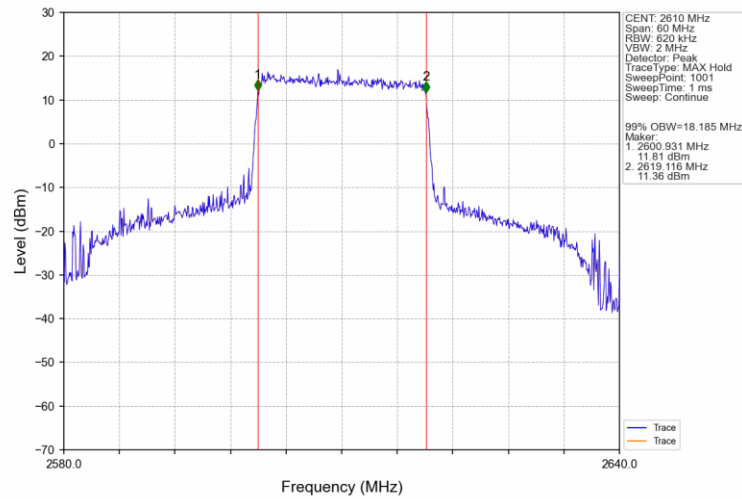
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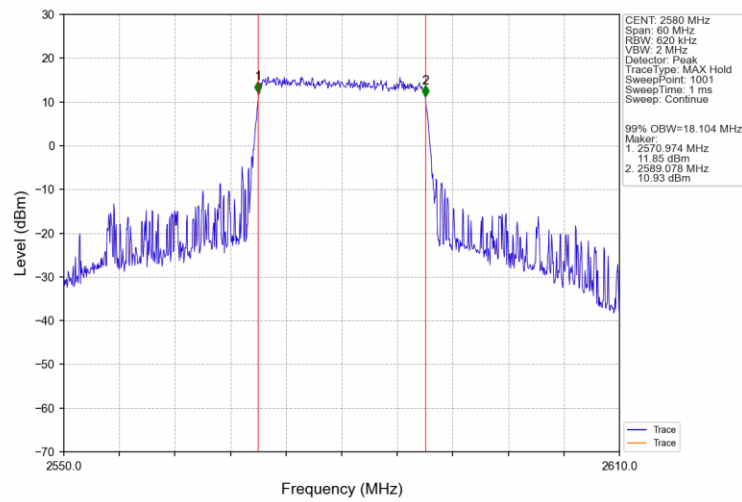
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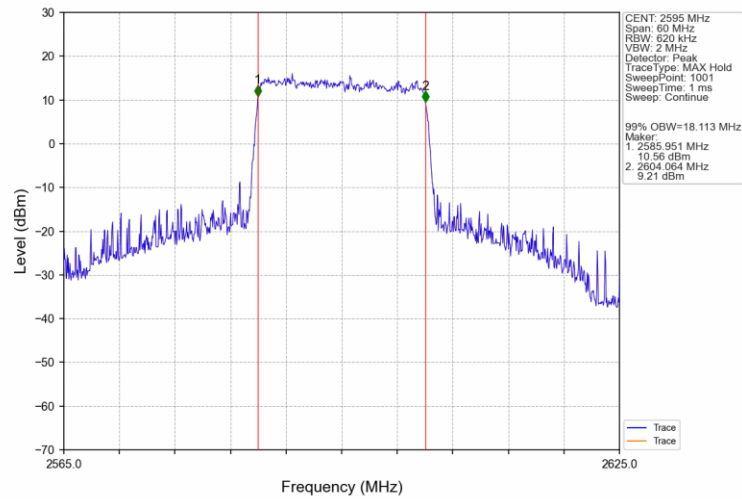
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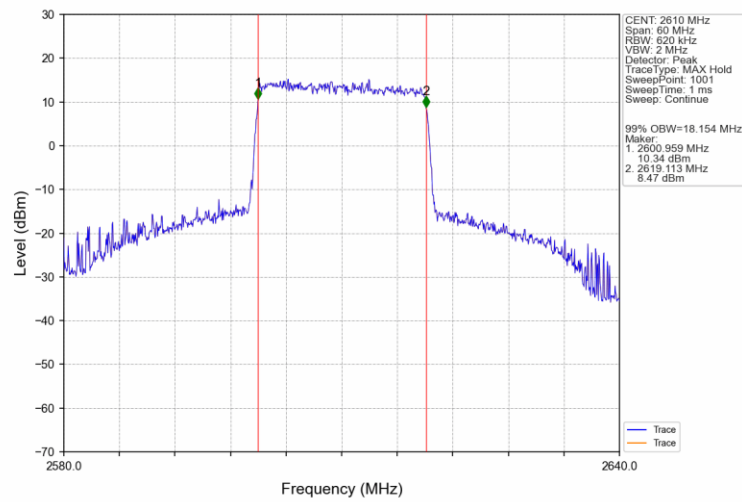
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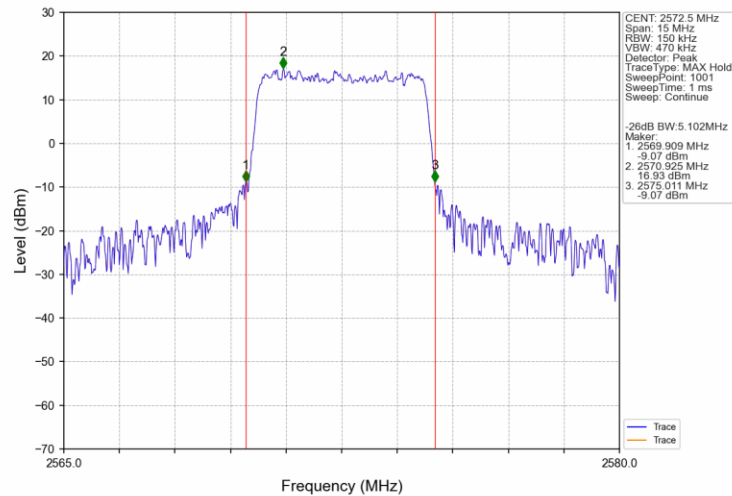


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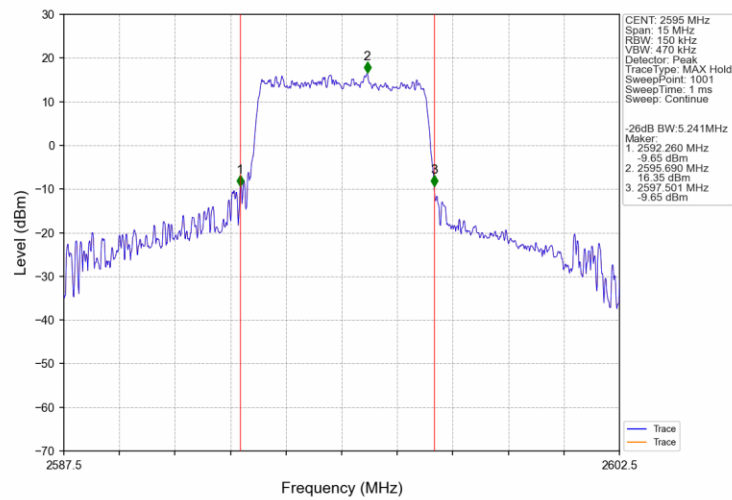


4.2.2 Band38_XDB

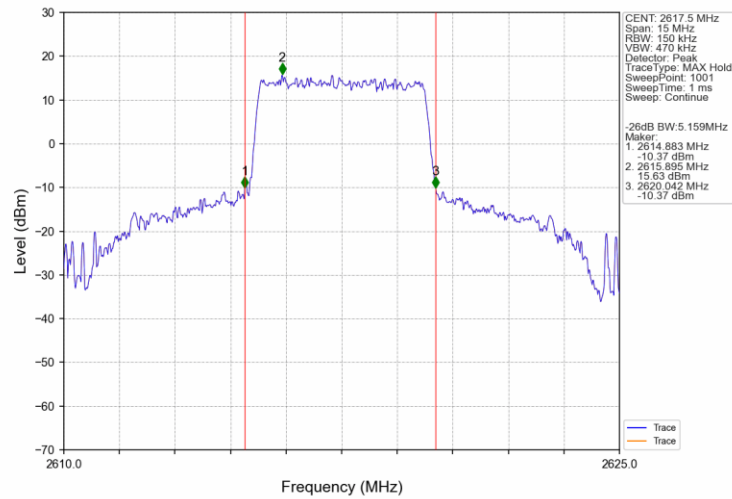
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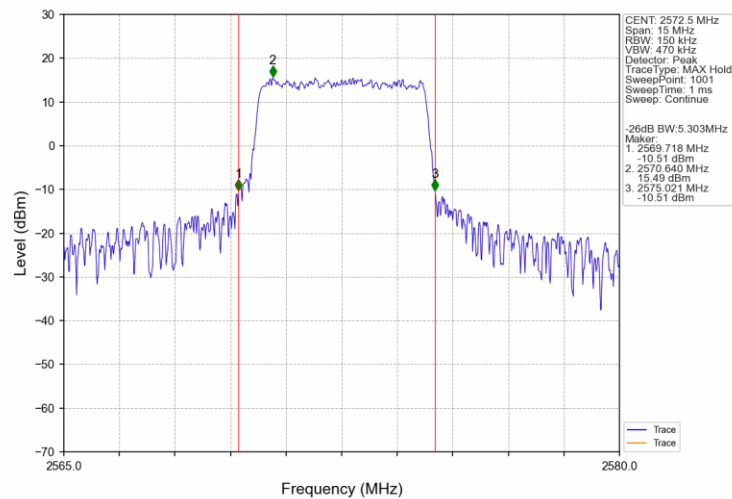
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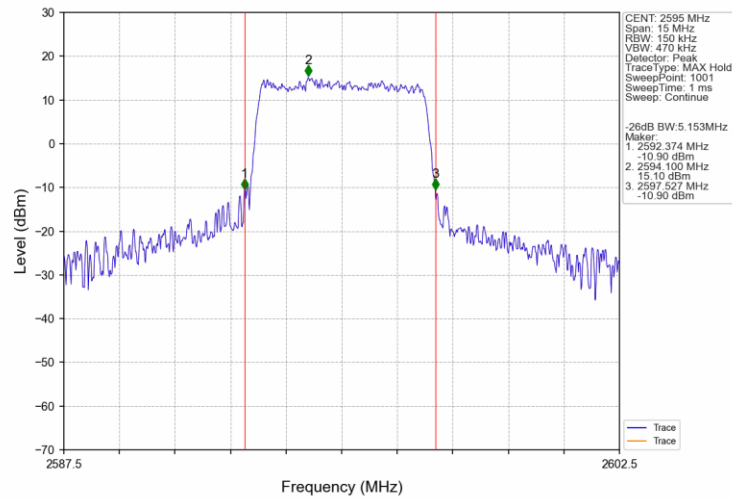
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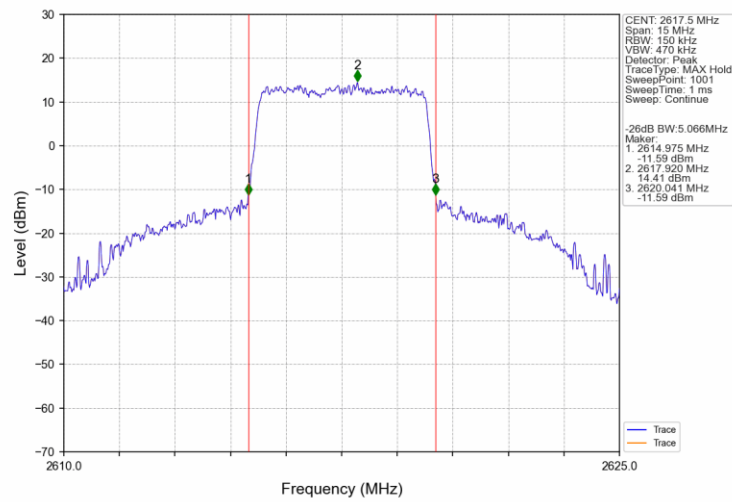
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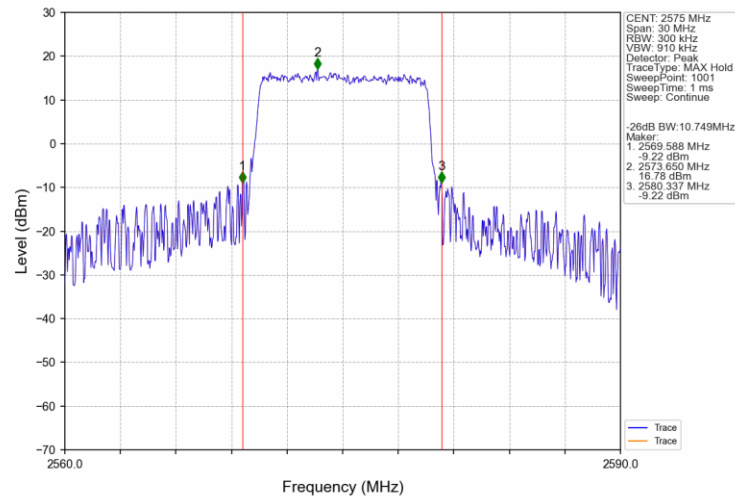
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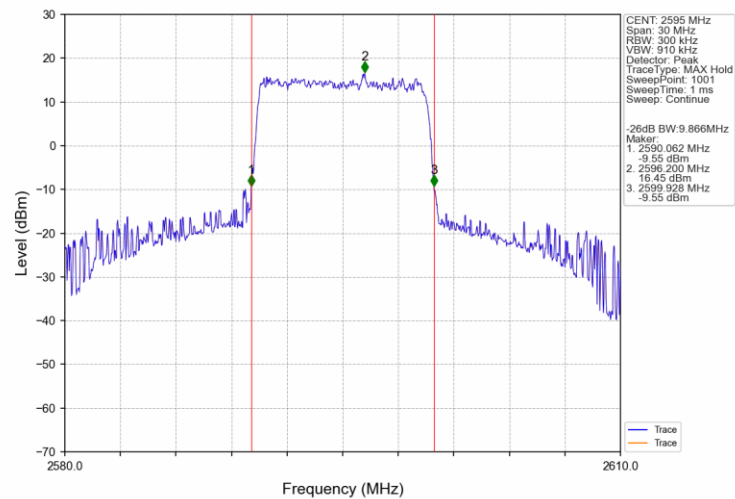
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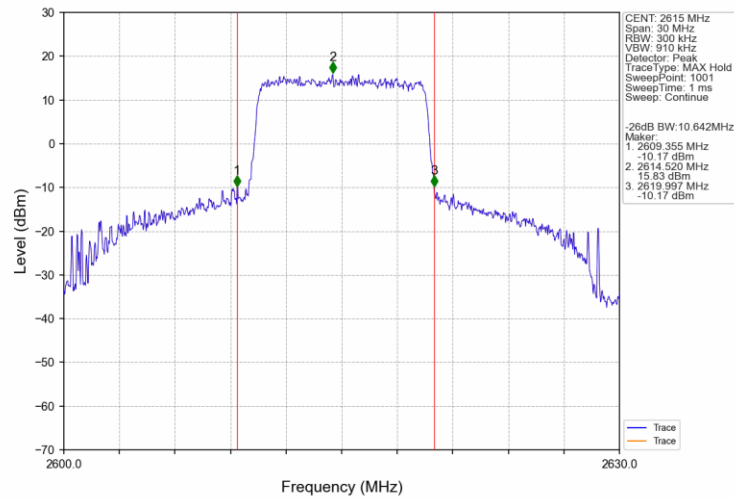
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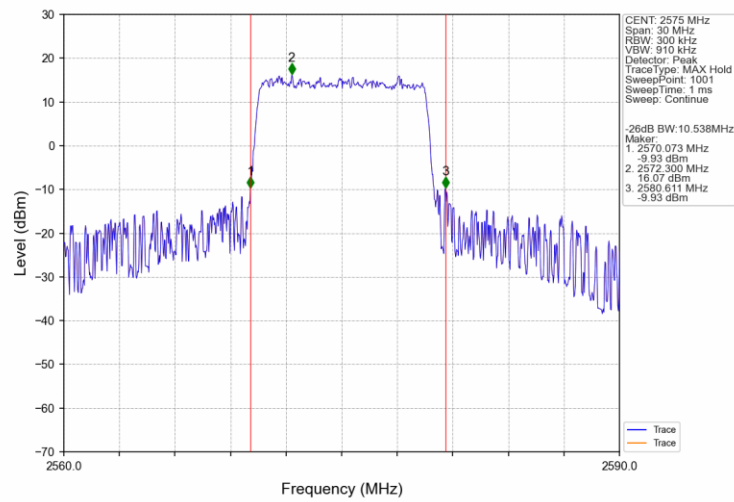
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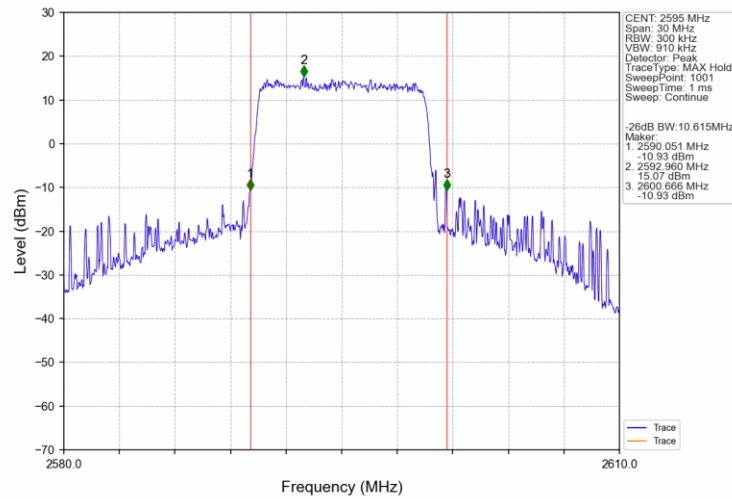
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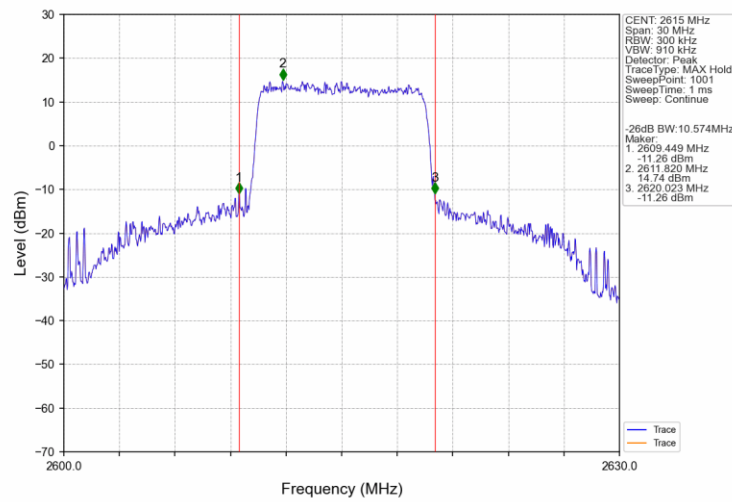
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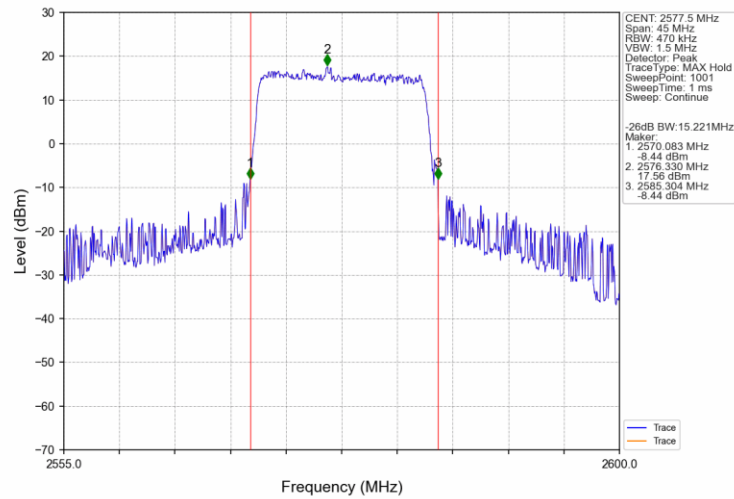
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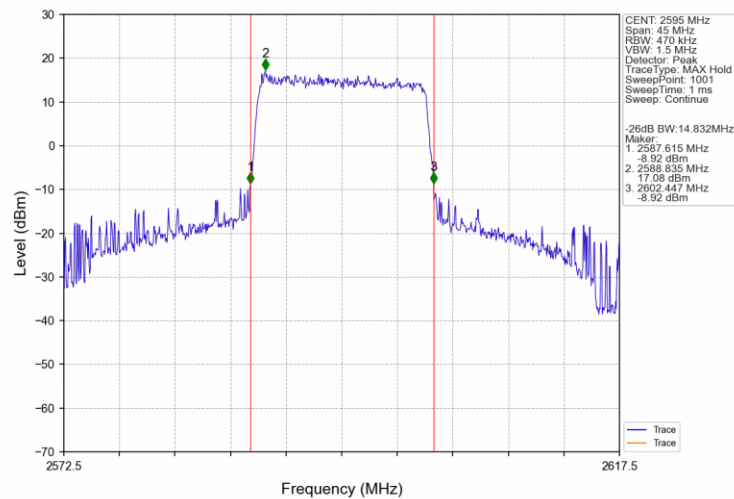
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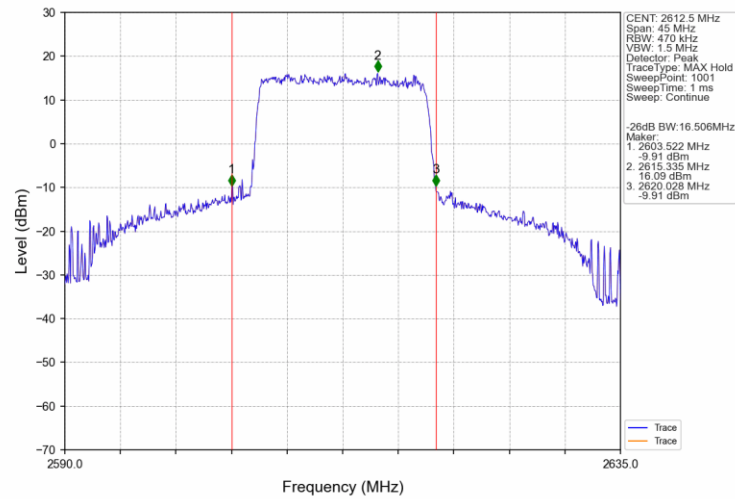
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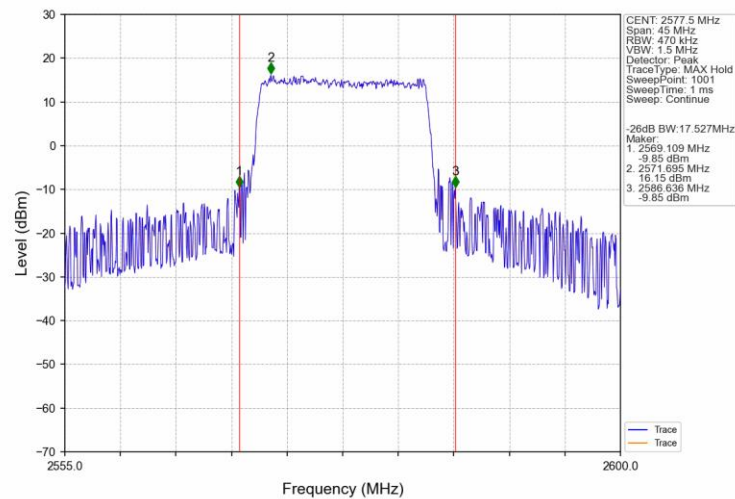
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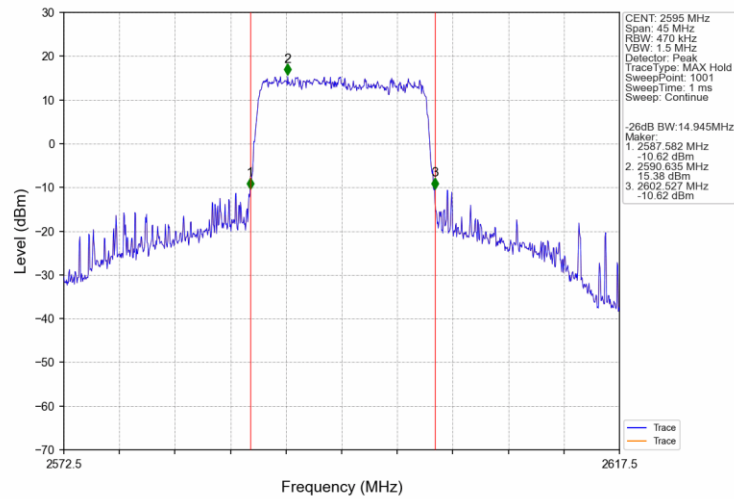
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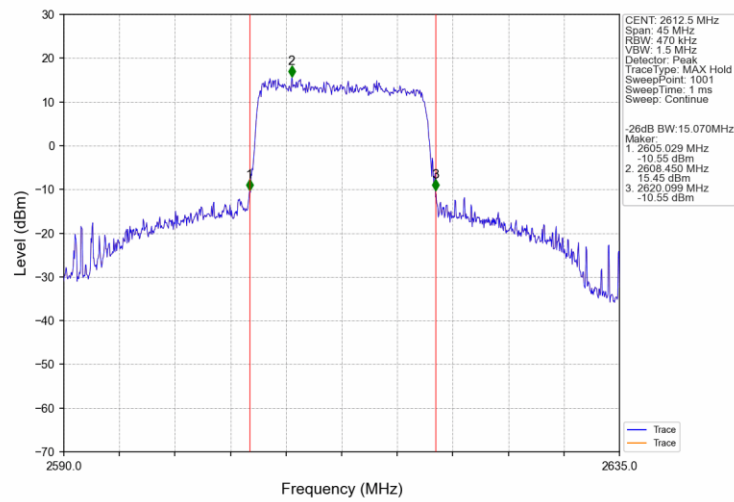
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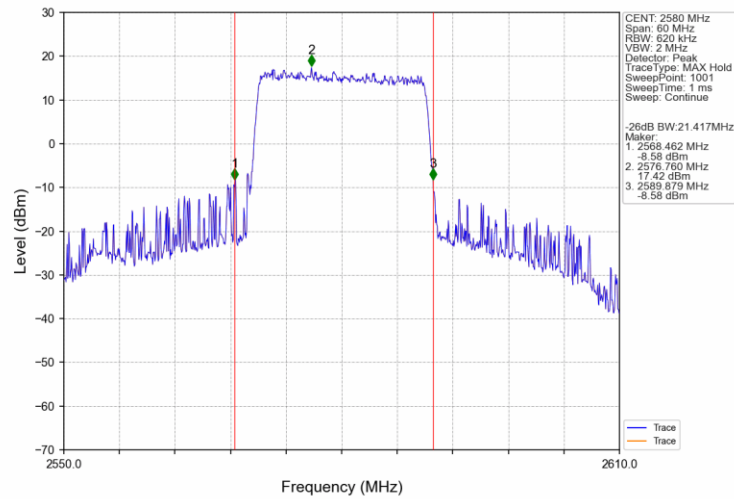
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Band38 15MHz 16QAM HCH 2612.5MHz RB 75 0 NTN



Band38 20MHz QPSK LCH 2580MHz RB 100 0 NTNV



Band38 20MHz QPSK MCH 2595MHz RB 100 0 NTNV

