

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	21.48	1.78	23.26	<=33.01	Pass
			13	21.59	1.78	23.37	<=33.01	Pass
			24	21.45	1.78	23.23	<=33.01	Pass
		12	0	20.48	1.78	22.26	<=33.01	Pass
			6	20.55	1.78	22.33	<=33.01	Pass
			13	20.44	1.78	22.22	<=33.01	Pass
		25	0	20.43	1.78	22.21	<=33.01	Pass
	2595	1	0	21.32	1.78	23.10	<=33.01	Pass
			13	21.36	1.78	23.14	<=33.01	Pass
			24	21.22	1.78	23.00	<=33.01	Pass
		12	0	20.25	1.78	22.03	<=33.01	Pass
			6	20.33	1.78	22.11	<=33.01	Pass
			13	20.18	1.78	21.96	<=33.01	Pass
		25	0	20.19	1.78	21.97	<=33.01	Pass
	2617.5	1	0	21.05	1.78	22.83	<=33.01	Pass
			13	21.15	1.78	22.93	<=33.01	Pass
			24	21.01	1.78	22.79	<=33.01	Pass
		12	0	19.99	1.78	21.77	<=33.01	Pass
			6	19.98	1.78	21.76	<=33.01	Pass
			13	19.86	1.78	21.64	<=33.01	Pass
		25	0	19.91	1.78	21.69	<=33.01	Pass
16QAM	2572.5	1	0	20.41	1.78	22.19	<=33.01	Pass
			13	20.52	1.78	22.30	<=33.01	Pass
			24	20.35	1.78	22.13	<=33.01	Pass
		12	0	19.42	1.78	21.20	<=33.01	Pass
			6	19.55	1.78	21.33	<=33.01	Pass
			13	19.45	1.78	21.23	<=33.01	Pass
		25	0	19.36	1.78	21.14	<=33.01	Pass
	2595	1	0	20.30	1.78	22.08	<=33.01	Pass
			13	20.25	1.78	22.03	<=33.01	Pass
			24	20.29	1.78	22.07	<=33.01	Pass
		12	0	19.20	1.78	20.98	<=33.01	Pass
			6	19.25	1.78	21.03	<=33.01	Pass
			13	19.04	1.78	20.82	<=33.01	Pass
		25	0	19.20	1.78	20.98	<=33.01	Pass
	2617.5	1	0	19.88	1.78	21.66	<=33.01	Pass
			13	20.18	1.78	21.96	<=33.01	Pass
			24	20.05	1.78	21.83	<=33.01	Pass
		12	0	18.78	1.78	20.56	<=33.01	Pass
			6	18.82	1.78	20.60	<=33.01	Pass
			13	18.69	1.78	20.47	<=33.01	Pass
		25	0	18.81	1.78	20.59	<=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	21.54	1.78	23.32	<=33.01	Pass
			25	21.72	1.78	23.50	<=33.01	Pass
			49	21.49	1.78	23.27	<=33.01	Pass
		25	0	20.59	1.78	22.37	<=33.01	Pass
			13	20.49	1.78	22.27	<=33.01	Pass
			25	20.48	1.78	22.26	<=33.01	Pass
		50	0	20.48	1.78	22.26	<=33.01	Pass
	2595	1	0	21.41	1.78	23.19	<=33.01	Pass
			25	21.53	1.78	23.31	<=33.01	Pass
			49	21.23	1.78	23.01	<=33.01	Pass
		25	0	20.37	1.78	22.15	<=33.01	Pass
			13	20.32	1.78	22.10	<=33.01	Pass
			25	20.20	1.78	21.98	<=33.01	Pass
		50	0	20.30	1.78	22.08	<=33.01	Pass
	2615	1	0	21.12	1.78	22.90	<=33.01	Pass
			25	21.26	1.78	23.04	<=33.01	Pass
			49	20.96	1.78	22.74	<=33.01	Pass
		25	0	20.03	1.78	21.81	<=33.01	Pass
			13	19.98	1.78	21.76	<=33.01	Pass
			25	19.92	1.78	21.70	<=33.01	Pass
		50	0	19.93	1.78	21.71	<=33.01	Pass
16QAM	2575	1	0	20.20	1.78	21.98	<=33.01	Pass
			25	20.87	1.78	22.65	<=33.01	Pass
			49	20.56	1.78	22.34	<=33.01	Pass
		25	0	19.56	1.78	21.34	<=33.01	Pass
			13	19.44	1.78	21.22	<=33.01	Pass
			25	19.43	1.78	21.21	<=33.01	Pass
		50	0	19.48	1.78	21.26	<=33.01	Pass
	2595	1	0	20.29	1.78	22.07	<=33.01	Pass
			25	20.27	1.78	22.05	<=33.01	Pass
			49	20.08	1.78	21.86	<=33.01	Pass
		25	0	19.34	1.78	21.12	<=33.01	Pass
			13	19.26	1.78	21.04	<=33.01	Pass
			25	19.20	1.78	20.98	<=33.01	Pass
		50	0	19.23	1.78	21.01	<=33.01	Pass
	2615	1	0	19.68	1.78	21.46	<=33.01	Pass
			25	20.21	1.78	21.99	<=33.01	Pass
			49	19.92	1.78	21.70	<=33.01	Pass
		25	0	19.04	1.78	20.82	<=33.01	Pass
			13	18.87	1.78	20.65	<=33.01	Pass
			25	18.83	1.78	20.61	<=33.01	Pass
		50	0	18.79	1.78	20.57	<=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	21.39	1.78	23.17	<=33.01	Pass
			38	21.47	1.78	23.25	<=33.01	Pass
			74	21.29	1.78	23.07	<=33.01	Pass
		36	0	20.54	1.78	22.32	<=33.01	Pass
			18	20.52	1.78	22.30	<=33.01	Pass

			39	20.43	1.78	22.21	<=33.01	Pass
		75	0	20.48	1.78	22.26	<=33.01	Pass
	2595	1	0	21.23	1.78	23.01	<=33.01	Pass
			38	21.41	1.78	23.19	<=33.01	Pass
			74	21.04	1.78	22.82	<=33.01	Pass
		36	0	20.43	1.78	22.21	<=33.01	Pass
			18	20.37	1.78	22.15	<=33.01	Pass
			39	20.23	1.78	22.01	<=33.01	Pass
		75	0	20.32	1.78	22.10	<=33.01	Pass
	2612.5	1	0	20.85	1.78	22.63	<=33.01	Pass
			38	21.06	1.78	22.84	<=33.01	Pass
			74	20.79	1.78	22.57	<=33.01	Pass
		36	0	20.14	1.78	21.92	<=33.01	Pass
			18	20.11	1.78	21.89	<=33.01	Pass
			39	20.03	1.78	21.81	<=33.01	Pass
		75	0	20.06	1.78	21.84	<=33.01	Pass
	16QAM	2577.5	1	0	20.23	1.78	22.01	<=33.01
38				20.41	1.78	22.19	<=33.01	Pass
74				20.62	1.78	22.40	<=33.01	Pass
36			0	19.43	1.78	21.21	<=33.01	Pass
			18	19.53	1.78	21.31	<=33.01	Pass
			39	19.38	1.78	21.16	<=33.01	Pass
75			0	19.43	1.78	21.21	<=33.01	Pass
2595		1	0	19.96	1.78	21.74	<=33.01	Pass
			38	20.07	1.78	21.85	<=33.01	Pass
			74	19.70	1.78	21.48	<=33.01	Pass
		36	0	19.30	1.78	21.08	<=33.01	Pass
			18	19.32	1.78	21.10	<=33.01	Pass
			39	19.12	1.78	20.90	<=33.01	Pass
		75	0	19.21	1.78	20.99	<=33.01	Pass
2612.5		1	0	19.90	1.78	21.68	<=33.01	Pass
			38	20.04	1.78	21.82	<=33.01	Pass
			74	19.49	1.78	21.27	<=33.01	Pass
		36	0	19.00	1.78	20.78	<=33.01	Pass
			18	18.94	1.78	20.72	<=33.01	Pass
			39	18.83	1.78	20.61	<=33.01	Pass
		75	0	18.90	1.78	20.68	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B38_20MHz_EIRP

Band: 38 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2580	1	0	21.23	1.78	23.01	<=33.01	Pass
			50	21.65	1.78	23.43	<=33.01	Pass
			99	21.14	1.78	22.92	<=33.01	Pass
		50	0	20.49	1.78	22.27	<=33.01	Pass
			25	20.44	1.78	22.22	<=33.01	Pass
			50	20.31	1.78	22.09	<=33.01	Pass
		100	0	20.45	1.78	22.23	<=33.01	Pass
	2595	1	0	21.14	1.78	22.92	<=33.01	Pass
			50	21.51	1.78	23.29	<=33.01	Pass
			99	20.84	1.78	22.62	<=33.01	Pass
		50	0	20.34	1.78	22.12	<=33.01	Pass
			25	20.25	1.78	22.03	<=33.01	Pass
			50	20.04	1.78	21.82	<=33.01	Pass
		100	0	20.22	1.78	22.00	<=33.01	Pass

16QAM	2610	1	0	20.87	1.78	22.65	<=33.01	Pass
			50	21.25	1.78	23.03	<=33.01	Pass
			99	20.77	1.78	22.55	<=33.01	Pass
		50	0	20.04	1.78	21.82	<=33.01	Pass
			25	19.89	1.78	21.67	<=33.01	Pass
			50	19.76	1.78	21.54	<=33.01	Pass
		100	0	19.89	1.78	21.67	<=33.01	Pass
	2580	1	0	20.36	1.78	22.14	<=33.01	Pass
			50	20.61	1.78	22.39	<=33.01	Pass
			99	20.20	1.78	21.98	<=33.01	Pass
		50	0	19.47	1.78	21.25	<=33.01	Pass
			25	19.30	1.78	21.08	<=33.01	Pass
			50	19.31	1.78	21.09	<=33.01	Pass
		100	0	19.40	1.78	21.18	<=33.01	Pass
	2595	1	0	19.78	1.78	21.56	<=33.01	Pass
			50	20.17	1.78	21.95	<=33.01	Pass
			99	19.49	1.78	21.27	<=33.01	Pass
		50	0	19.30	1.78	21.08	<=33.01	Pass
			25	19.20	1.78	20.98	<=33.01	Pass
			50	19.01	1.78	20.79	<=33.01	Pass
		100	0	19.22	1.78	21.00	<=33.01	Pass
	2610	1	0	19.76	1.78	21.54	<=33.01	Pass
			50	20.29	1.78	22.07	<=33.01	Pass
			99	19.65	1.78	21.43	<=33.01	Pass
		50	0	18.94	1.78	20.72	<=33.01	Pass
			25	18.88	1.78	20.66	<=33.01	Pass
			50	18.71	1.78	20.49	<=33.01	Pass
		100	0	18.86	1.78	20.64	<=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	-11.415	-0.0044	-2.5 to 2.5	Pass
					3.85	-34.847	-0.0135	-2.5 to 2.5	Pass
					4.43	-56.520	-0.0220	-2.5 to 2.5	Pass
				-30	3.85	-65.832	-0.0256	-2.5 to 2.5	Pass
				-20	3.85	184.565	0.0717	-2.5 to 2.5	Pass
				-10	3.85	562.906	0.2188	-2.5 to 2.5	Pass
				0	3.85	561.547	0.2183	-2.5 to 2.5	Pass
				10	3.85	559.130	0.2173	-2.5 to 2.5	Pass
				30	3.85	555.167	0.2158	-2.5 to 2.5	Pass
				40	3.85	546.355	0.2124	-2.5 to 2.5	Pass
				50	3.85	551.362	0.2143	-2.5 to 2.5	Pass
	2595	25	0	20	3.27	-9.913	-0.0038	-2.5 to 2.5	Pass
					3.85	-9.456	-0.0036	-2.5 to 2.5	Pass
					4.43	-18.125	-0.0070	-2.5 to 2.5	Pass
				-30	3.85	-19.026	-0.0073	-2.5 to 2.5	Pass
				-20	3.85	-12.116	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-13.289	-0.0051	-2.5 to 2.5	Pass

				0	3.85	-9.012	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-4.849	-0.0019	-2.5 to 2.5	Pass
				30	3.85	-9.599	-0.0037	-2.5 to 2.5	Pass
				40	3.85	-13.218	-0.0051	-2.5 to 2.5	Pass
				50	3.85	-2.775	-0.0011	-2.5 to 2.5	Pass
	2617.5	25	0	20	3.27	22.759	0.0087	-2.5 to 2.5	Pass
					3.85	17.166	0.0066	-2.5 to 2.5	Pass
					4.43	7.997	0.0031	-2.5 to 2.5	Pass
				-30	3.85	22.817	0.0087	-2.5 to 2.5	Pass
				-20	3.85	23.589	0.0090	-2.5 to 2.5	Pass
				-10	3.85	23.775	0.0091	-2.5 to 2.5	Pass
				0	3.85	27.480	0.0105	-2.5 to 2.5	Pass
				10	3.85	13.390	0.0051	-2.5 to 2.5	Pass
				30	3.85	9.227	0.0035	-2.5 to 2.5	Pass
				40	3.85	2.561	0.0010	-2.5 to 2.5	Pass
				50	3.85	5.822	0.0022	-2.5 to 2.5	Pass
16QAM	2572.5	25	0	20	3.27	539.861	0.2099	-2.5 to 2.5	Pass
					3.85	559.259	0.2174	-2.5 to 2.5	Pass
					4.43	558.744	0.2172	-2.5 to 2.5	Pass
				-30	3.85	539.517	0.2097	-2.5 to 2.5	Pass
				-20	3.85	553.865	0.2153	-2.5 to 2.5	Pass
				-10	3.85	554.509	0.2156	-2.5 to 2.5	Pass
				0	3.85	534.411	0.2077	-2.5 to 2.5	Pass
				10	3.85	-22.945	-0.0089	-2.5 to 2.5	Pass
				30	3.85	-44.088	-0.0171	-2.5 to 2.5	Pass
				40	3.85	-52.400	-0.0204	-2.5 to 2.5	Pass
				50	3.85	-63.257	-0.0246	-2.5 to 2.5	Pass
	2595	25	0	20	3.27	-15.421	-0.0059	-2.5 to 2.5	Pass
					3.85	-4.950	-0.0019	-2.5 to 2.5	Pass
					4.43	-4.435	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-17.352	-0.0067	-2.5 to 2.5	Pass
				-20	3.85	-15.736	-0.0061	-2.5 to 2.5	Pass
				-10	3.85	-15.993	-0.0062	-2.5 to 2.5	Pass
				0	3.85	2.503	0.0010	-2.5 to 2.5	Pass
				10	3.85	-5.765	-0.0022	-2.5 to 2.5	Pass
				30	3.85	1.845	0.0007	-2.5 to 2.5	Pass
				40	3.85	-8.612	-0.0033	-2.5 to 2.5	Pass
				50	3.85	3.333	0.0013	-2.5 to 2.5	Pass
	2617.5	25	0	20	3.27	8.454	0.0032	-2.5 to 2.5	Pass
					3.85	19.770	0.0076	-2.5 to 2.5	Pass
					4.43	20.657	0.0079	-2.5 to 2.5	Pass
				-30	3.85	14.048	0.0054	-2.5 to 2.5	Pass
				-20	3.85	22.001	0.0084	-2.5 to 2.5	Pass
				-10	3.85	12.274	0.0047	-2.5 to 2.5	Pass
				0	3.85	26.321	0.0101	-2.5 to 2.5	Pass
				10	3.85	20.299	0.0078	-2.5 to 2.5	Pass
				30	3.85	22.144	0.0085	-2.5 to 2.5	Pass
				40	3.85	33.059	0.0126	-2.5 to 2.5	Pass
				50	3.85	6.480	0.0025	-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	-18.296	-0.0071	-2.5 to 2.5	Pass
					3.85	-12.274	-0.0048	-2.5 to 2.5	Pass
					4.43	-10.586	-0.0041	-2.5 to 2.5	Pass

16QAM				-30	3.85	-18.611	-0.0072	-2.5 to 2.5	Pass
				-20	3.85	-8.411	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-6.809	-0.0026	-2.5 to 2.5	Pass
				0	3.85	-14.949	-0.0058	-2.5 to 2.5	Pass
				10	3.85	-6.466	-0.0025	-2.5 to 2.5	Pass
				30	3.85	-11.702	-0.0045	-2.5 to 2.5	Pass
				40	3.85	-4.478	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-6.752	-0.0026	-2.5 to 2.5	Pass
	2595	50	0	20	3.27	-9.084	-0.0035	-2.5 to 2.5	Pass
					3.85	-13.046	-0.0050	-2.5 to 2.5	Pass
					4.43	-5.579	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	-10.443	-0.0040	-2.5 to 2.5	Pass
				-20	3.85	-8.254	-0.0032	-2.5 to 2.5	Pass
				-10	3.85	-5.779	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-2.904	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-2.174	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-9.069	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-3.104	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-5.479	-0.0021	-2.5 to 2.5	Pass
				20	3.27	-9.499	-0.0036	-2.5 to 2.5	Pass
					3.85	-11.687	-0.0045	-2.5 to 2.5	Pass
					4.43	-6.351	-0.0024	-2.5 to 2.5	Pass
	2615	50	0	-30	3.85	-0.114	0.0000	-2.5 to 2.5	Pass
				-20	3.85	-6.094	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	5.937	0.0023	-2.5 to 2.5	Pass
				0	3.85	0.114	0.0000	-2.5 to 2.5	Pass
				10	3.85	-20.142	-0.0077	-2.5 to 2.5	Pass
				30	3.85	-5.622	-0.0021	-2.5 to 2.5	Pass
				40	3.85	-4.835	-0.0018	-2.5 to 2.5	Pass
				50	3.85	-2.561	-0.0010	-2.5 to 2.5	Pass
	2575	50	0	20	3.27	-9.327	-0.0036	-2.5 to 2.5	Pass
					3.85	0.858	0.0003	-2.5 to 2.5	Pass
					4.43	-3.834	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-14.219	-0.0055	-2.5 to 2.5	Pass
				-20	3.85	-10.629	-0.0041	-2.5 to 2.5	Pass
				-10	3.85	-13.361	-0.0052	-2.5 to 2.5	Pass
				0	3.85	-14.920	-0.0058	-2.5 to 2.5	Pass
				10	3.85	-12.460	-0.0048	-2.5 to 2.5	Pass
				30	3.85	-18.311	-0.0071	-2.5 to 2.5	Pass
				40	3.85	-0.329	-0.0001	-2.5 to 2.5	Pass
				50	3.85	-11.845	-0.0046	-2.5 to 2.5	Pass
				20	3.27	-4.678	-0.0018	-2.5 to 2.5	Pass
					3.85	-6.566	-0.0025	-2.5 to 2.5	Pass
					4.43	-9.499	-0.0037	-2.5 to 2.5	Pass
	2595	50	0	-30	3.85	-6.537	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-8.411	-0.0032	-2.5 to 2.5	Pass
				-10	3.85	-1.259	-0.0005	-2.5 to 2.5	Pass
				0	3.85	-6.466	-0.0025	-2.5 to 2.5	Pass
				10	3.85	-6.022	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-13.018	-0.0050	-2.5 to 2.5	Pass
				40	3.85	2.289	0.0009	-2.5 to 2.5	Pass
				50	3.85	-18.096	-0.0070	-2.5 to 2.5	Pass
	2615	50	0	20	3.27	-5.465	-0.0021	-2.5 to 2.5	Pass
					3.85	-3.920	-0.0015	-2.5 to 2.5	Pass
					4.43	-6.480	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	-7.095	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-6.881	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-4.234	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-8.197	-0.0031	-2.5 to 2.5	Pass

				10	3.85	1.073	0.0004	-2.5 to 2.5	Pass
				30	3.85	-20.328	-0.0078	-2.5 to 2.5	Pass
				40	3.85	-9.928	-0.0038	-2.5 to 2.5	Pass
				50	3.85	-9.699	-0.0037	-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	-10.214	-0.0040	-2.5 to 2.5	Pass
					3.85	-9.727	-0.0038	-2.5 to 2.5	Pass
					4.43	-6.108	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	-4.621	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-8.597	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-8.211	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-6.251	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-7.725	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-15.879	-0.0062	-2.5 to 2.5	Pass
				40	3.85	-3.433	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-2.503	-0.0010	-2.5 to 2.5	Pass
	2595	75	0	20	3.27	-8.554	-0.0033	-2.5 to 2.5	Pass
					3.85	-10.371	-0.0040	-2.5 to 2.5	Pass
					4.43	-11.415	-0.0044	-2.5 to 2.5	Pass
				-30	3.85	-14.091	-0.0054	-2.5 to 2.5	Pass
				-20	3.85	-14.062	-0.0054	-2.5 to 2.5	Pass
				-10	3.85	-16.394	-0.0063	-2.5 to 2.5	Pass
				0	3.85	-10.901	-0.0042	-2.5 to 2.5	Pass
				10	3.85	-11.001	-0.0042	-2.5 to 2.5	Pass
				30	3.85	-13.032	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-11.501	-0.0044	-2.5 to 2.5	Pass
				50	3.85	-5.565	-0.0021	-2.5 to 2.5	Pass
	2612.5	75	0	20	3.27	-14.548	-0.0056	-2.5 to 2.5	Pass
					3.85	-12.703	-0.0049	-2.5 to 2.5	Pass
					4.43	-8.998	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-4.520	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-6.223	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	-3.119	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-19.484	-0.0075	-2.5 to 2.5	Pass
				10	3.85	-9.298	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-6.781	-0.0026	-2.5 to 2.5	Pass
				40	3.85	-5.322	-0.0020	-2.5 to 2.5	Pass
16QAM	2577.5	75	0	20	3.27	-10.829	-0.0042	-2.5 to 2.5	Pass
					3.85	-0.701	-0.0003	-2.5 to 2.5	Pass
					4.43	-10.171	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-4.005	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-5.550	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	-6.280	-0.0024	-2.5 to 2.5	Pass
				0	3.85	-4.749	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-8.926	-0.0035	-2.5 to 2.5	Pass
				30	3.85	-12.331	-0.0048	-2.5 to 2.5	Pass
				40	3.85	-2.003	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-11.315	-0.0044	-2.5 to 2.5	Pass
	2595	75	0	20	3.27	-9.642	-0.0037	-2.5 to 2.5	Pass
					3.85	-8.140	-0.0031	-2.5 to 2.5	Pass
					4.43	-12.302	-0.0047	-2.5 to 2.5	Pass
				-30	3.85	-12.674	-0.0049	-2.5 to 2.5	Pass
					3.85	-12.674	-0.0049	-2.5 to 2.5	Pass

				-20	3.85	-5.007	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-14.377	-0.0055	-2.5 to 2.5	Pass
				0	3.85	-1.674	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-8.340	-0.0032	-2.5 to 2.5	Pass
				30	3.85	-2.160	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-6.795	-0.0026	-2.5 to 2.5	Pass
	2612.5	75	0	50	3.85	-7.539	-0.0029	-2.5 to 2.5	Pass
				20	3.27	-8.497	-0.0033	-2.5 to 2.5	Pass
					3.85	-9.942	-0.0038	-2.5 to 2.5	Pass
					4.43	-12.360	-0.0047	-2.5 to 2.5	Pass
				-30	3.85	-10.715	-0.0041	-2.5 to 2.5	Pass
				-20	3.85	-5.193	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	-11.930	-0.0046	-2.5 to 2.5	Pass
				0	3.85	-6.123	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-8.039	-0.0031	-2.5 to 2.5	Pass
				30	3.85	-11.716	-0.0045	-2.5 to 2.5	Pass
				40	3.85	-4.821	-0.0018	-2.5 to 2.5	Pass
				50	3.85	-4.020	-0.0015	-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	-25.907	-0.0100	-2.5 to 2.5	Pass
					3.85	-9.956	-0.0039	-2.5 to 2.5	Pass
					4.43	-11.745	-0.0046	-2.5 to 2.5	Pass
				-30	3.85	-11.888	-0.0046	-2.5 to 2.5	Pass
				-20	3.85	-16.108	-0.0062	-2.5 to 2.5	Pass
				-10	3.85	-8.283	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-12.746	-0.0049	-2.5 to 2.5	Pass
				10	3.85	-19.369	-0.0075	-2.5 to 2.5	Pass
				30	3.85	-13.118	-0.0051	-2.5 to 2.5	Pass
				40	3.85	-8.454	-0.0033	-2.5 to 2.5	Pass
	2595	100	0	50	3.85	-14.048	-0.0054	-2.5 to 2.5	Pass
				20	3.27	-8.326	-0.0032	-2.5 to 2.5	Pass
					3.85	-12.903	-0.0050	-2.5 to 2.5	Pass
					4.43	-4.206	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-15.450	-0.0060	-2.5 to 2.5	Pass
				-20	3.85	-7.882	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-12.460	-0.0048	-2.5 to 2.5	Pass
				0	3.85	-11.745	-0.0045	-2.5 to 2.5	Pass
				10	3.85	-4.621	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-13.704	-0.0053	-2.5 to 2.5	Pass
	2610	100	0	40	3.85	-8.240	-0.0032	-2.5 to 2.5	Pass
				50	3.85	0.257	0.0001	-2.5 to 2.5	Pass
				20	3.27	-5.078	-0.0019	-2.5 to 2.5	Pass
					3.85	-8.683	-0.0033	-2.5 to 2.5	Pass
					4.43	-9.441	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-5.479	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	-5.608	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-3.762	-0.0014	-2.5 to 2.5	Pass
				0	3.85	1.459	0.0006	-2.5 to 2.5	Pass
				10	3.85	-6.108	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-10.271	-0.0039	-2.5 to 2.5	Pass
				40	3.85	-3.576	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-0.072	0.0000	-2.5 to 2.5	Pass
16QAM	2580	100	0	20	3.27	-8.769	-0.0034	-2.5 to 2.5	Pass

					3.85	-6.709	-0.0026	-2.5 to 2.5	Pass
					4.43	-7.839	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	-3.176	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-9.985	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	-18.010	-0.0070	-2.5 to 2.5	Pass
				0	3.85	-6.351	-0.0025	-2.5 to 2.5	Pass
				10	3.85	-9.370	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-14.148	-0.0055	-2.5 to 2.5	Pass
				40	3.85	-11.115	-0.0043	-2.5 to 2.5	Pass
				50	3.85	-5.078	-0.0020	-2.5 to 2.5	Pass
	2595	100	0	20	3.27	-7.324	-0.0028	-2.5 to 2.5	Pass
					3.85	-7.725	-0.0030	-2.5 to 2.5	Pass
					4.43	-10.972	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-10.042	-0.0039	-2.5 to 2.5	Pass
				-20	3.85	-7.181	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-11.129	-0.0043	-2.5 to 2.5	Pass
				0	3.85	-10.357	-0.0040	-2.5 to 2.5	Pass
				10	3.85	-9.513	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-9.027	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-10.486	-0.0040	-2.5 to 2.5	Pass
				50	3.85	-11.587	-0.0045	-2.5 to 2.5	Pass
	2610	100	0	20	3.27	-6.909	-0.0026	-2.5 to 2.5	Pass
					3.85	-5.064	-0.0019	-2.5 to 2.5	Pass
					4.43	-7.424	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-16.179	-0.0062	-2.5 to 2.5	Pass
				-20	3.85	-1.073	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	-5.293	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-3.276	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-2.861	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-4.077	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-4.263	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-4.377	-0.0017	-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 / NTV						
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

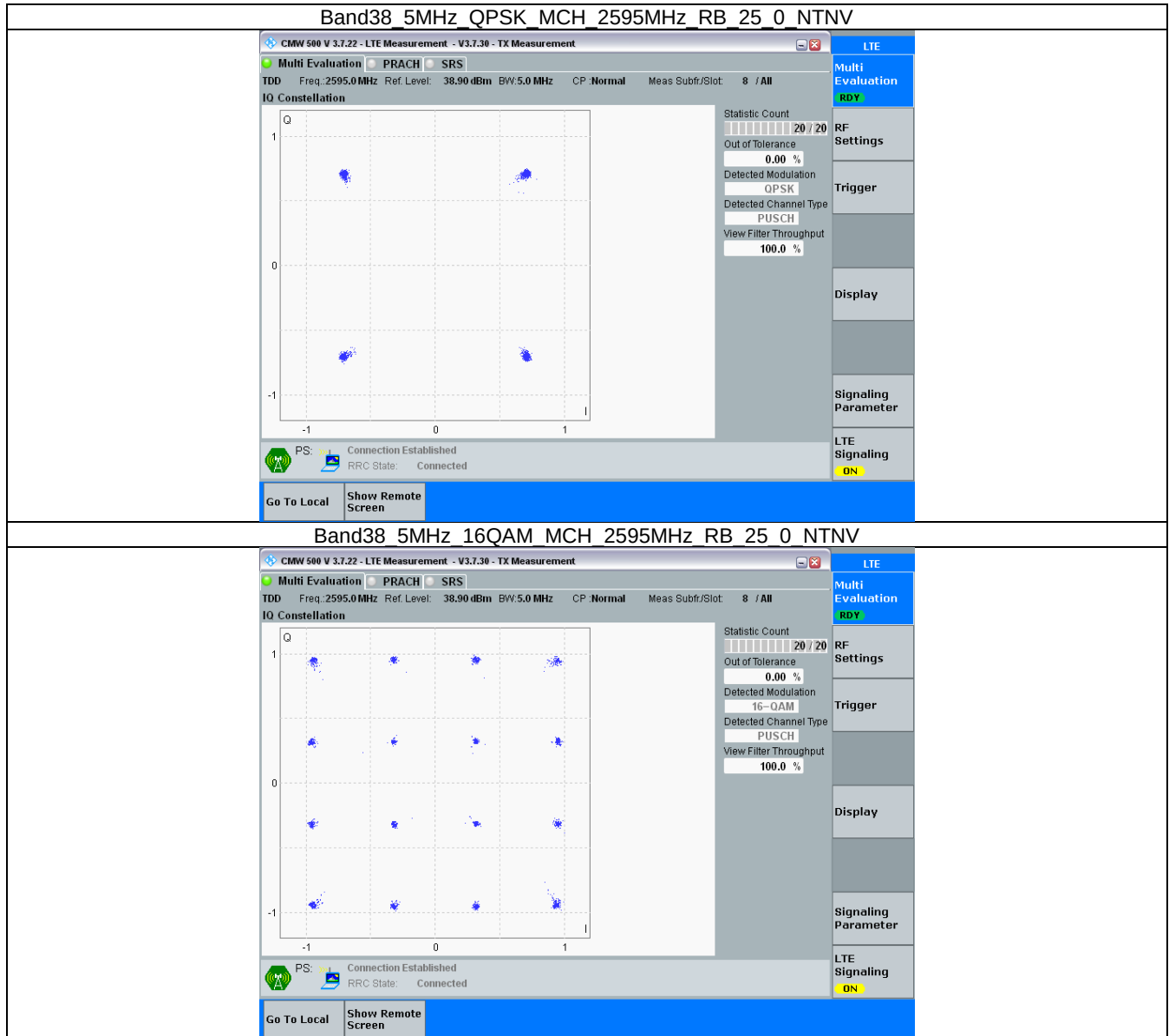
Band: 38 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	75	0	Refer To Test Graph		Pass
16QAM	2595	75	0	Refer To Test Graph		Pass

3.1.4 B38_20MHz

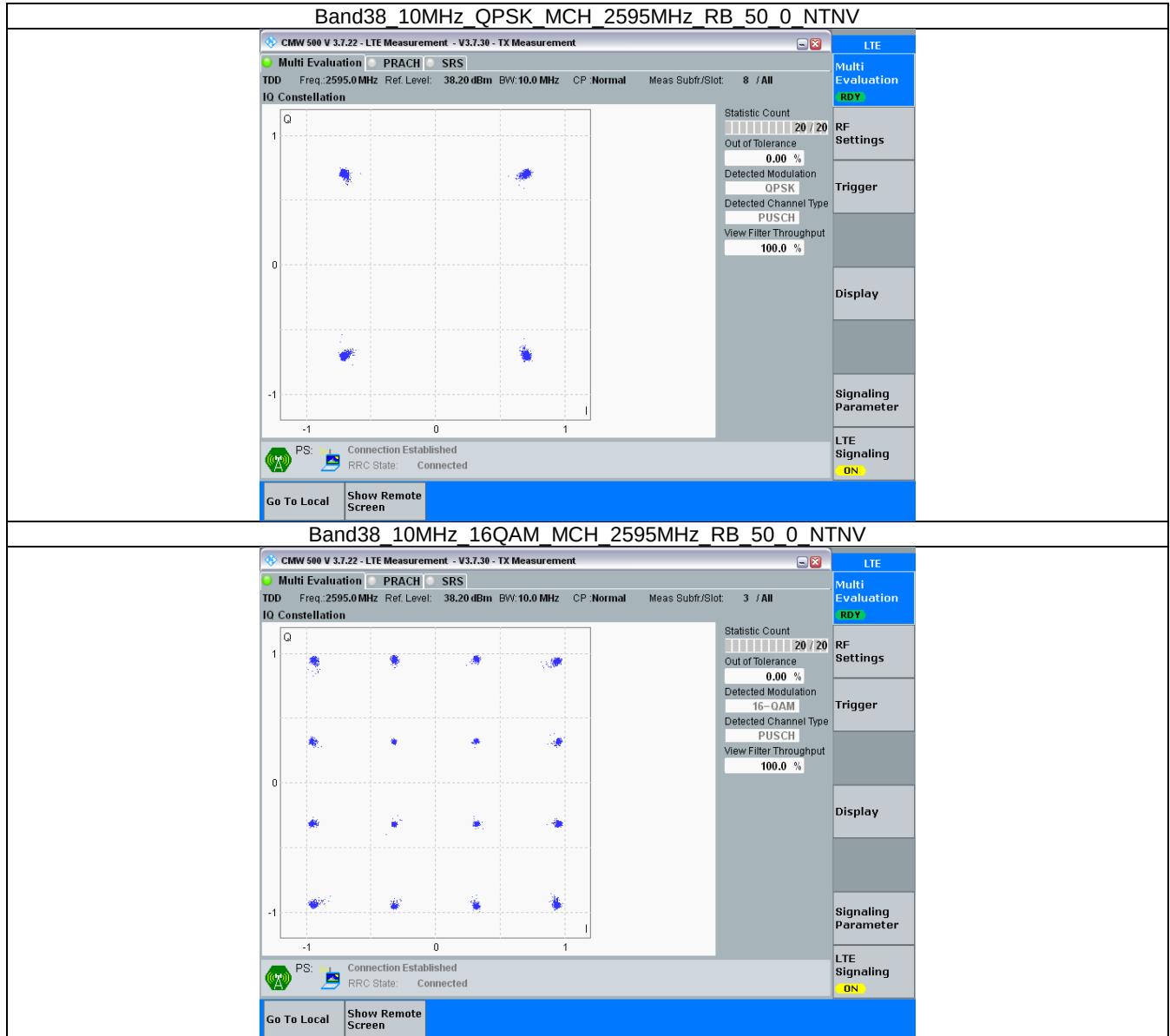
Band: 38 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	100	0	Refer To Test Graph		Pass
16QAM	2595	100	0	Refer To Test Graph		Pass

3.2 Test Graph

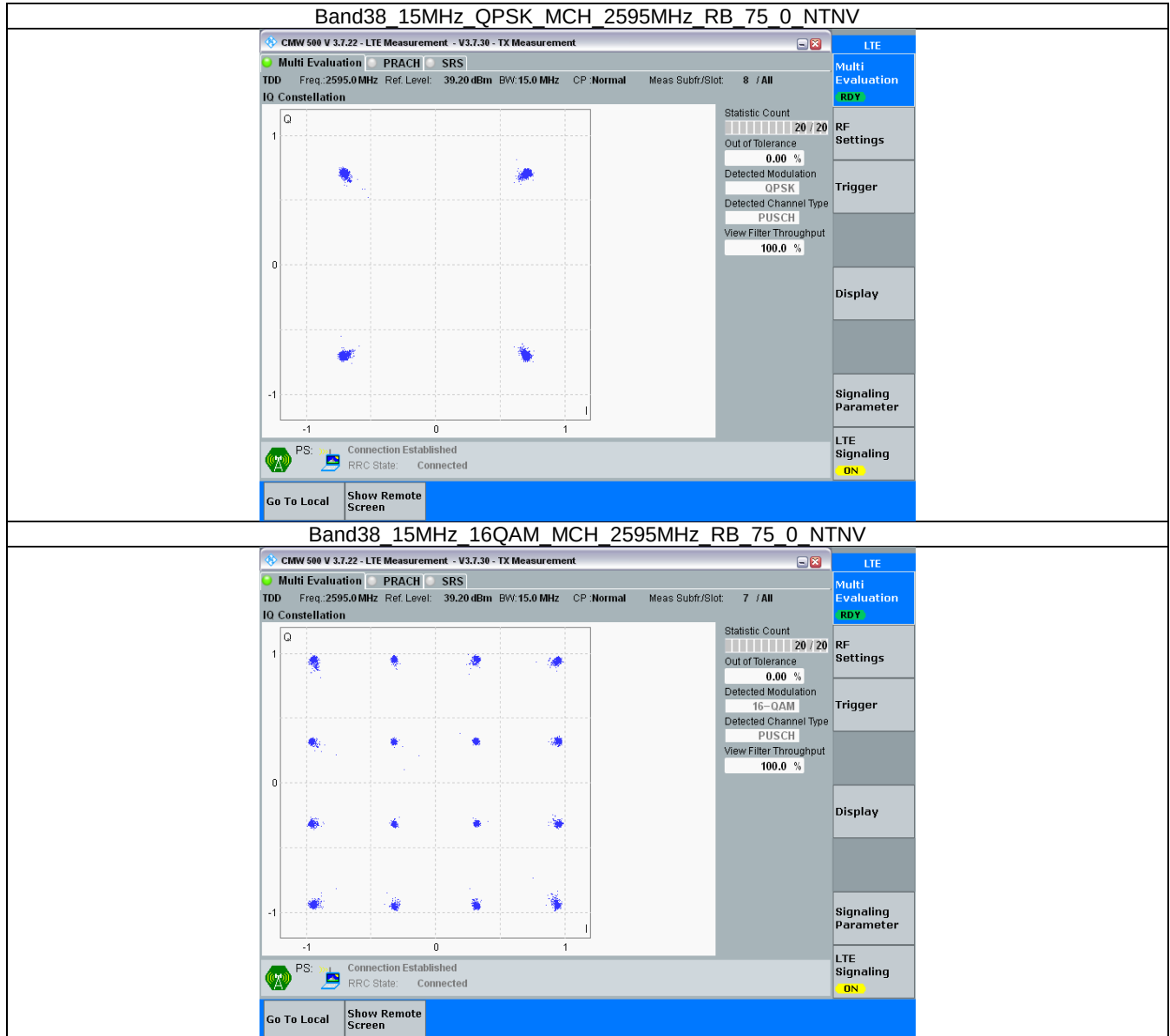
3.2.1 B38_5MHz



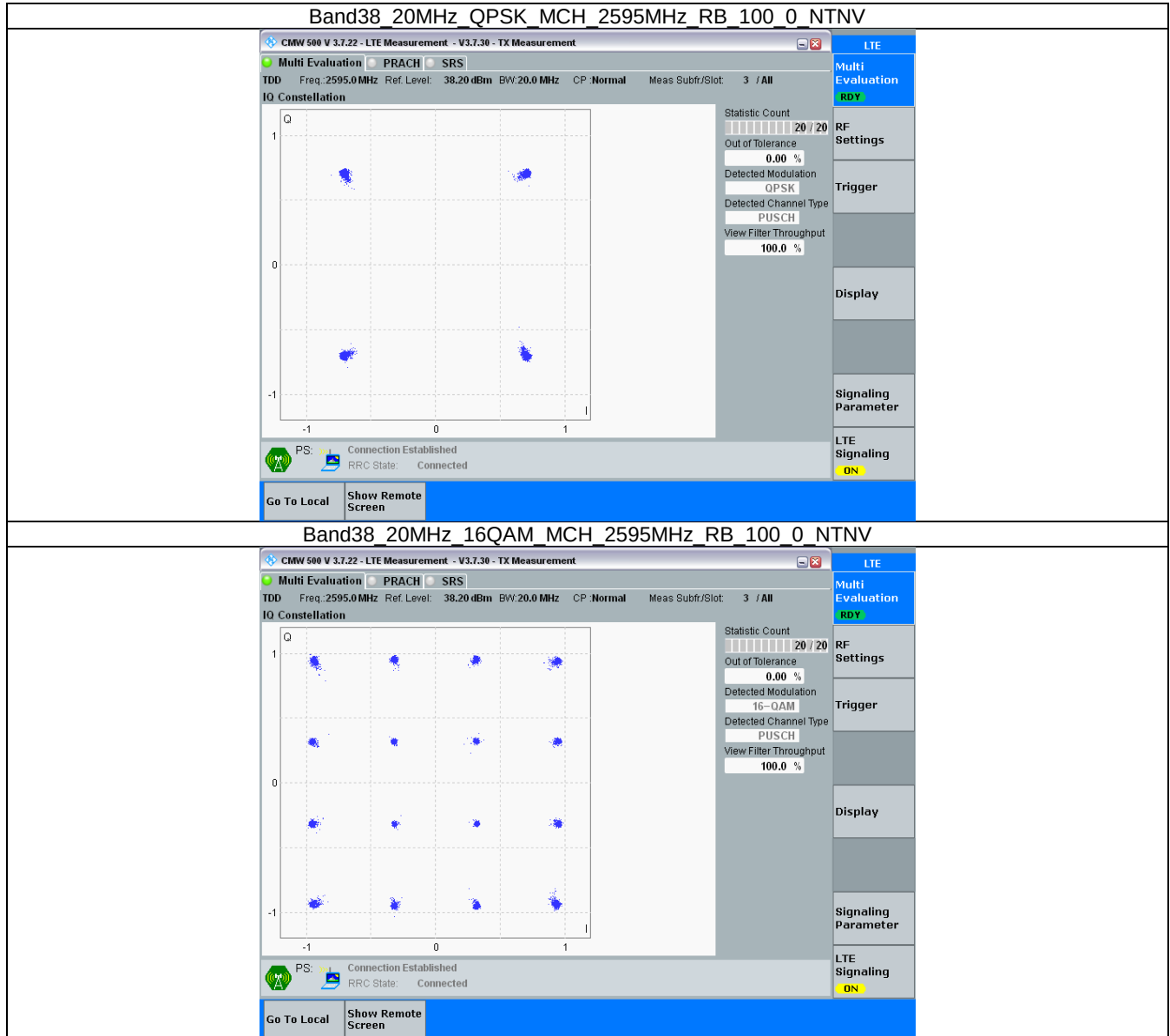
3.2.2 B38_10MHz



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	4.555	/	Pass
		2595	25	0	4.539	/	Pass
		2617.5	25	0	4.559	/	Pass
	16QAM	2572.5	25	0	4.569	/	Pass
		2595	25	0	4.537	/	Pass
		2617.5	25	0	4.544	/	Pass
10	QPSK	2575	50	0	9.090	/	Pass
		2595	50	0	9.074	/	Pass
		2615	50	0	9.081	/	Pass
	16QAM	2575	50	0	9.077	/	Pass
		2595	50	0	9.040	/	Pass
		2615	50	0	9.105	/	Pass
15	QPSK	2577.5	75	0	13.572	/	Pass
		2595	75	0	13.588	/	Pass
		2612.5	75	0	13.640	/	Pass
	16QAM	2577.5	75	0	13.671	/	Pass
		2595	75	0	13.610	/	Pass
		2612.5	75	0	13.676	/	Pass
20	QPSK	2580	100	0	18.147	/	Pass
		2595	100	0	18.146	/	Pass
		2610	100	0	18.205	/	Pass
	16QAM	2580	100	0	18.141	/	Pass
		2595	100	0	18.184	/	Pass
		2610	100	0	18.138	/	Pass

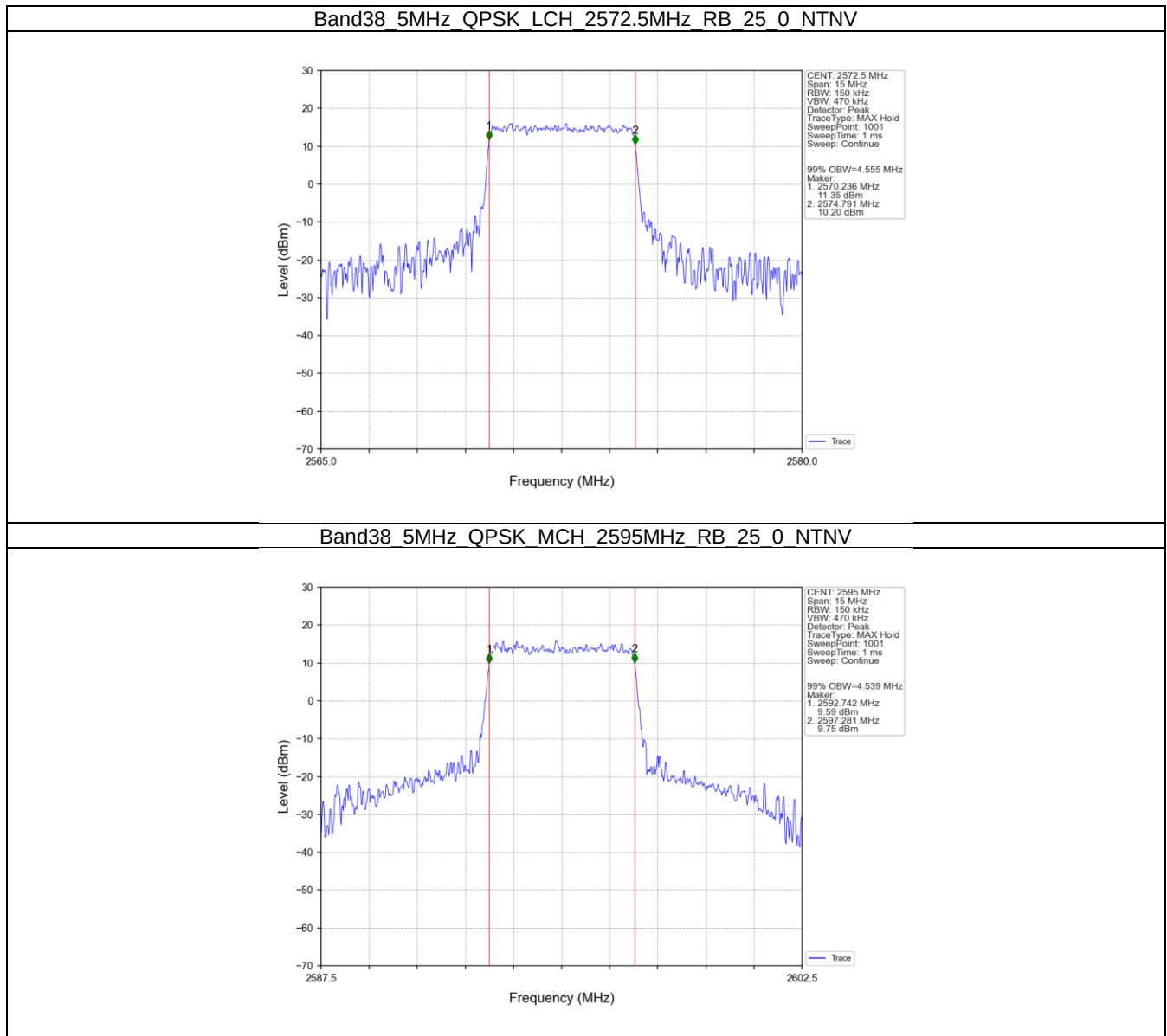
4.1.2 Band38_XDB

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.519	/	Pass
		2595	25	0	5.063	/	Pass
		2617.5	25	0	5.328	/	Pass
	16QAM	2572.5	25	0	5.272	/	Pass
		2595	25	0	5.103	/	Pass
		2617.5	25	0	5.041	/	Pass
10	QPSK	2575	50	0	10.305	/	Pass
		2595	50	0	10.792	/	Pass
		2615	50	0	10.946	/	Pass
	16QAM	2575	50	0	11.552	/	Pass
		2595	50	0	10.581	/	Pass
		2615	50	0	9.887	/	Pass
15	QPSK	2577.5	75	0	15.592	/	Pass
		2595	75	0	15.250	/	Pass
		2612.5	75	0	15.370	/	Pass

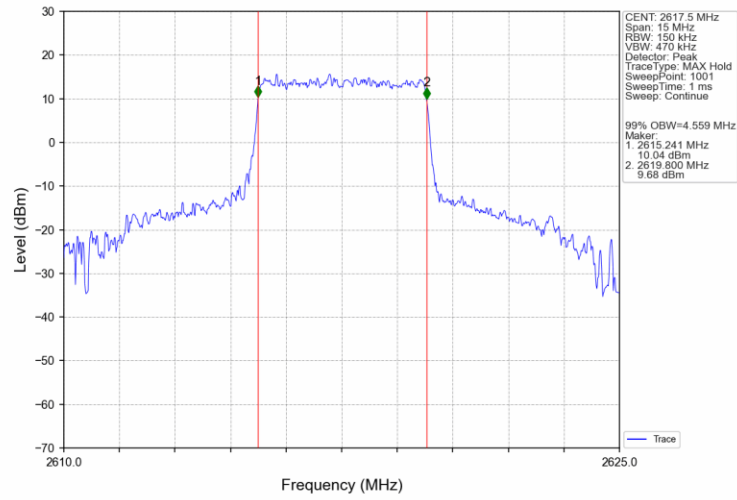
20	16QAM	2577.5	75	0	17.268	/	Pass
		2595	75	0	16.000	/	Pass
		2612.5	75	0	16.278	/	Pass
	QPSK	2580	100	0	21.161	/	Pass
		2595	100	0	20.271	/	Pass
		2610	100	0	20.196	/	Pass
	16QAM	2580	100	0	21.268	/	Pass
		2595	100	0	22.490	/	Pass
		2610	100	0	20.786	/	Pass

4.2 Test Graph

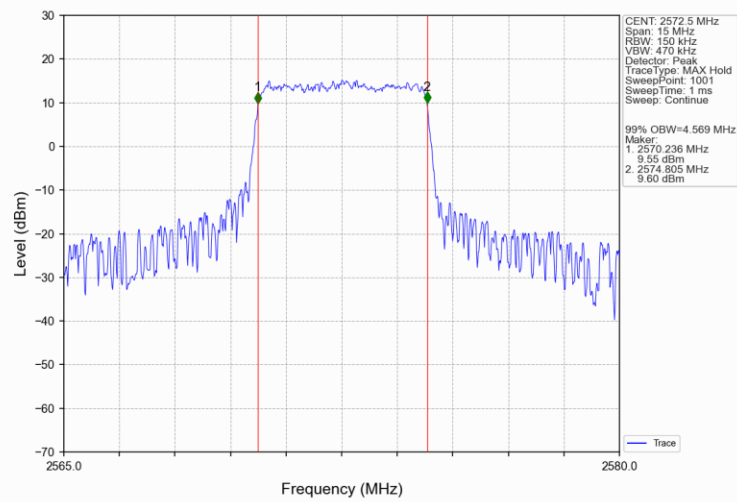
4.2.1 Band38_OBW



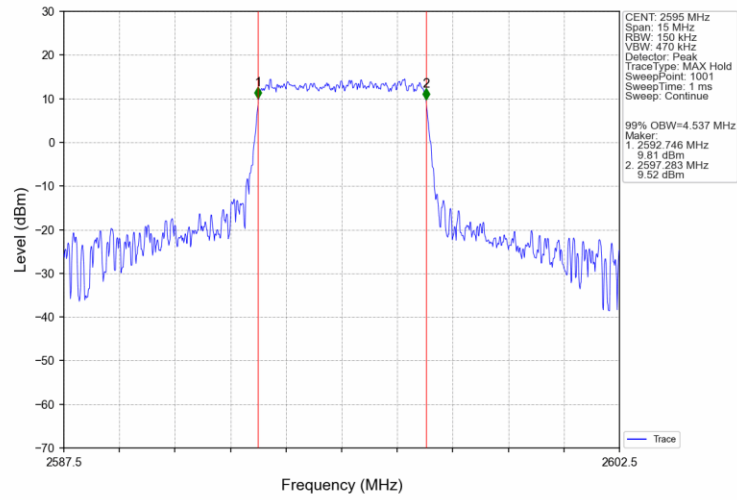
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



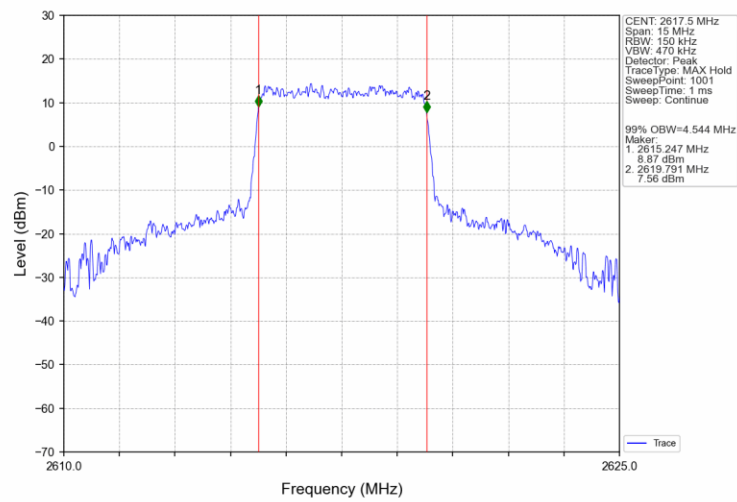
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



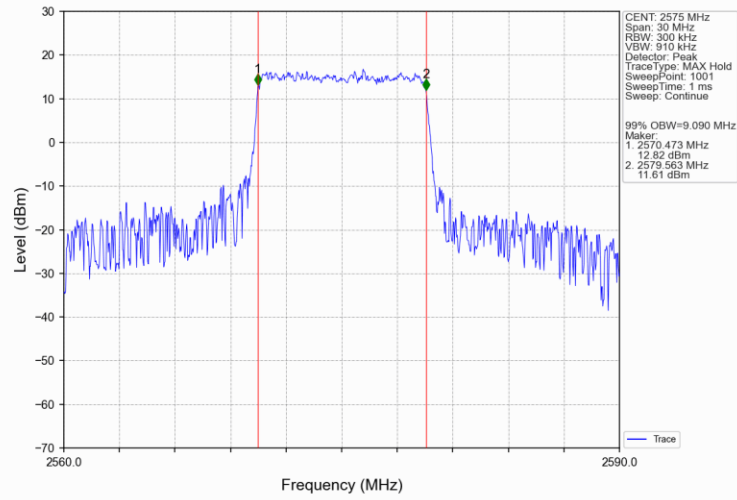
Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



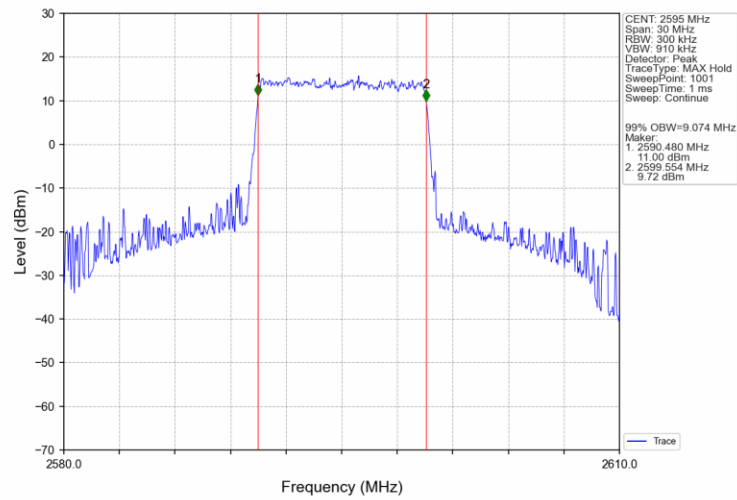
Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



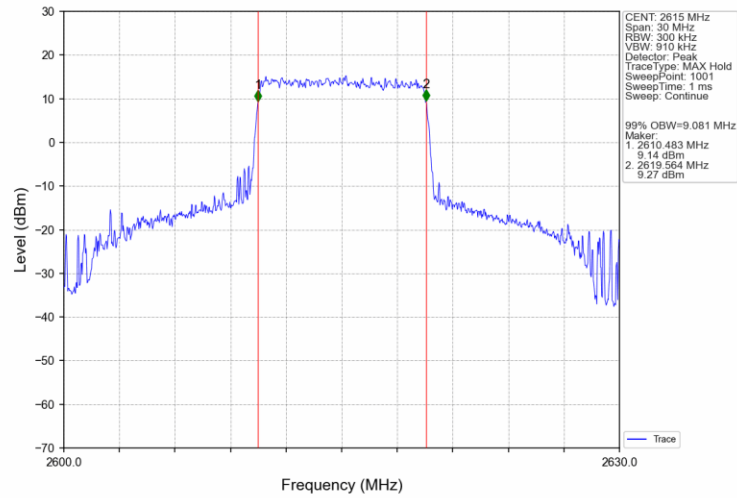
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



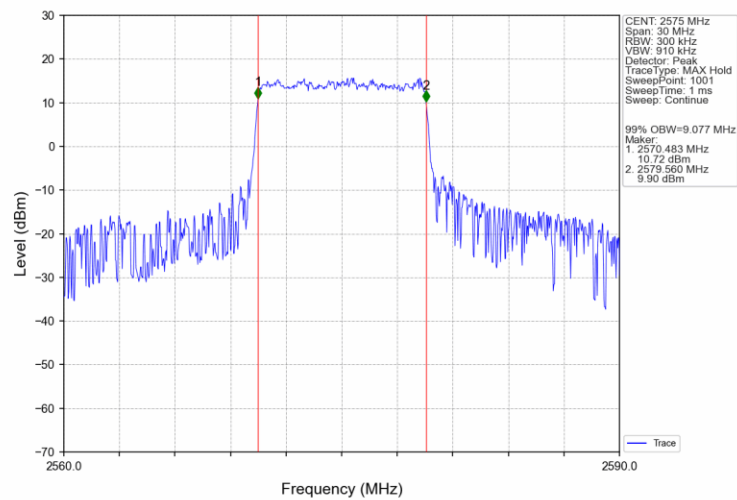
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



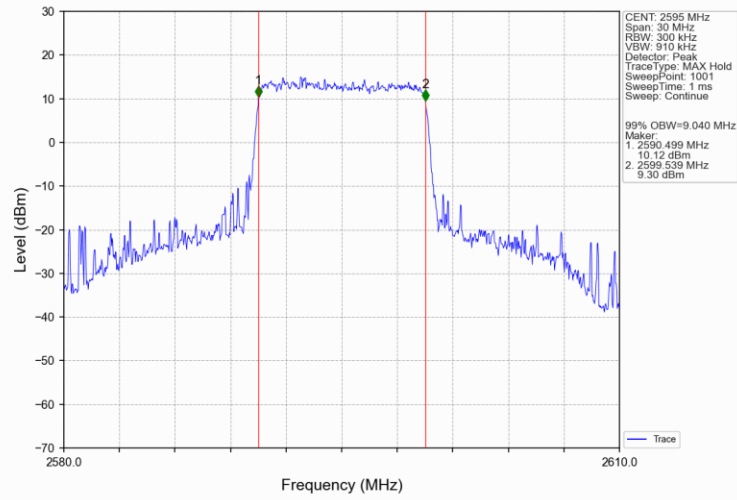
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



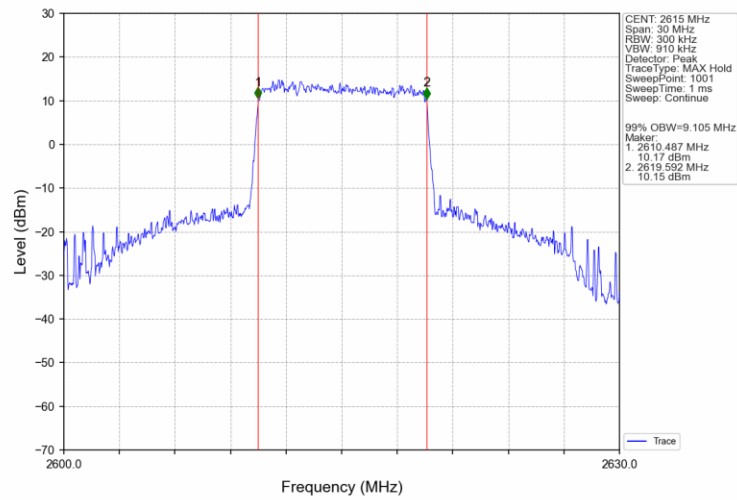
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



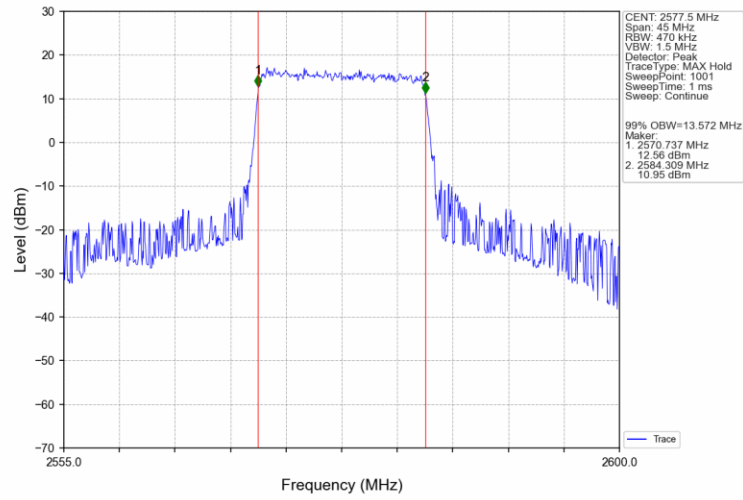
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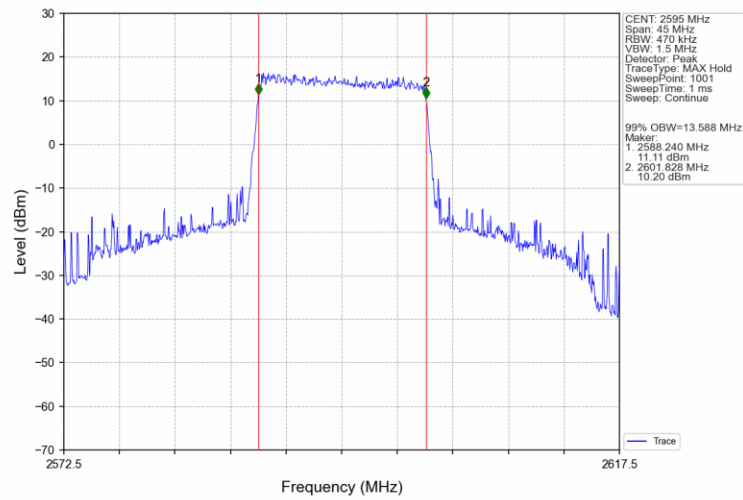
Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV



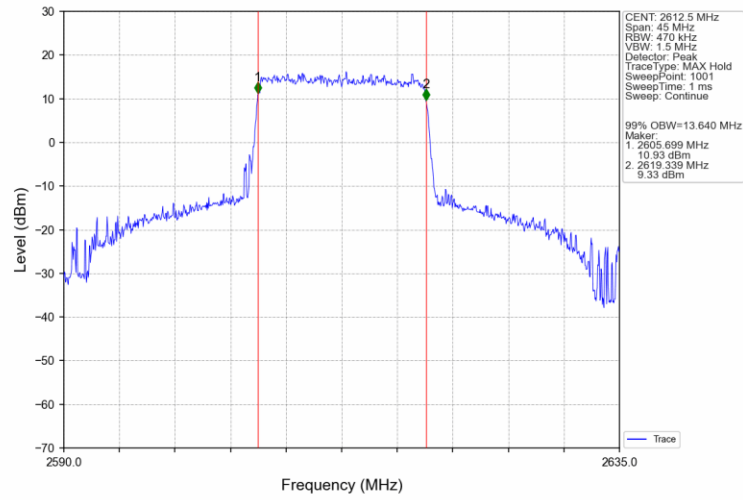
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



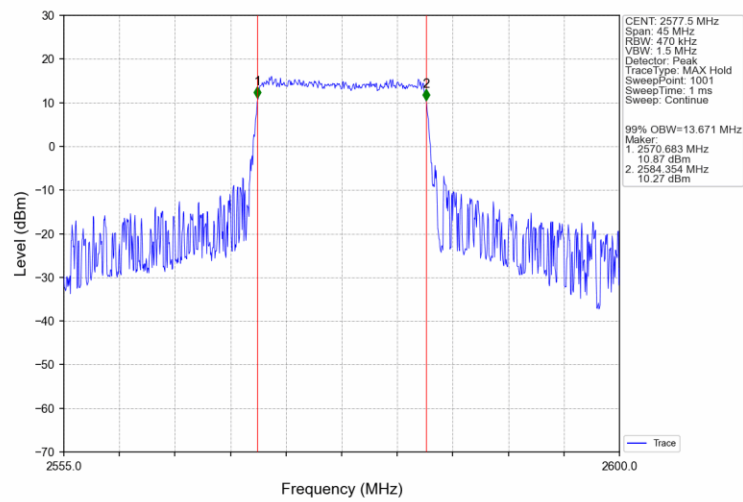
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



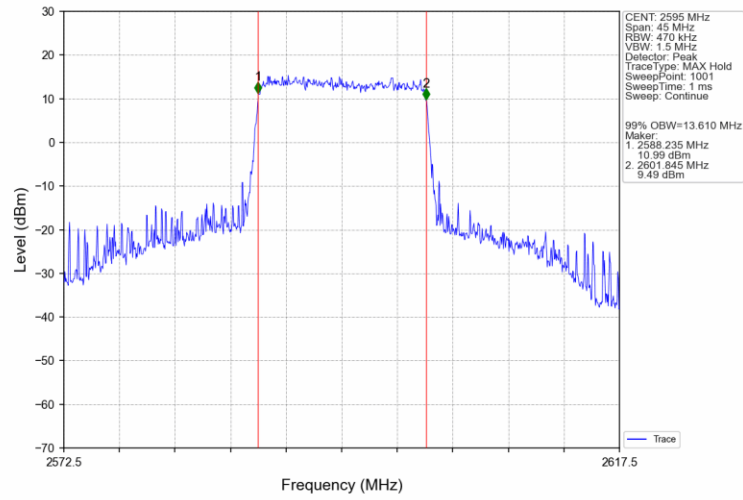
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0 NTNv



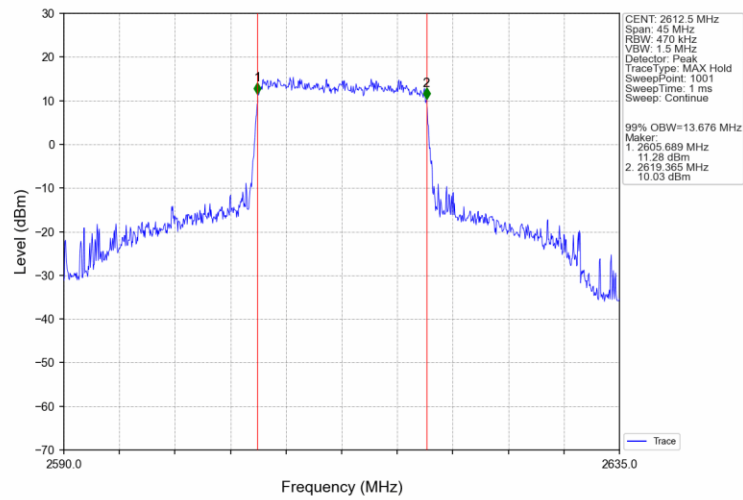
Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0 NTNv



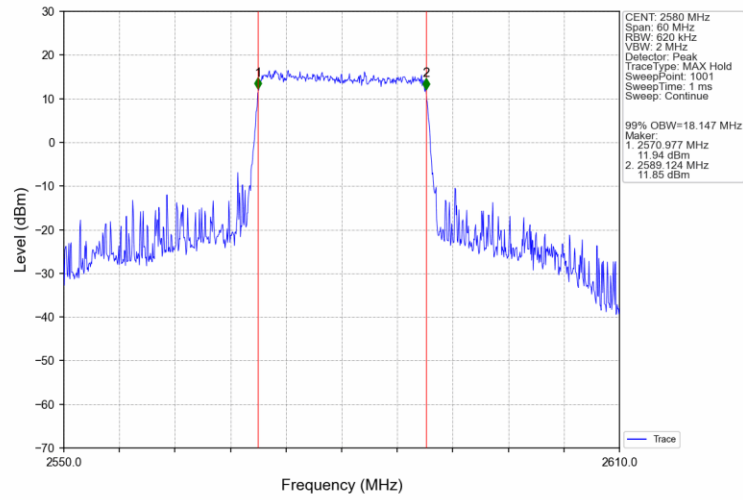
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



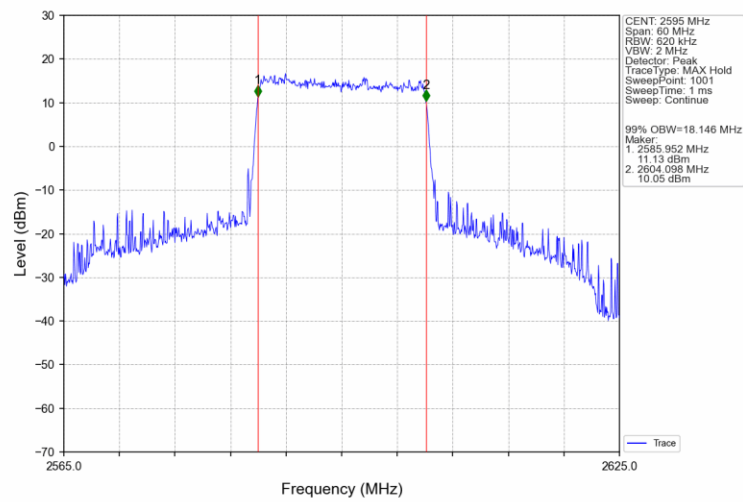
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



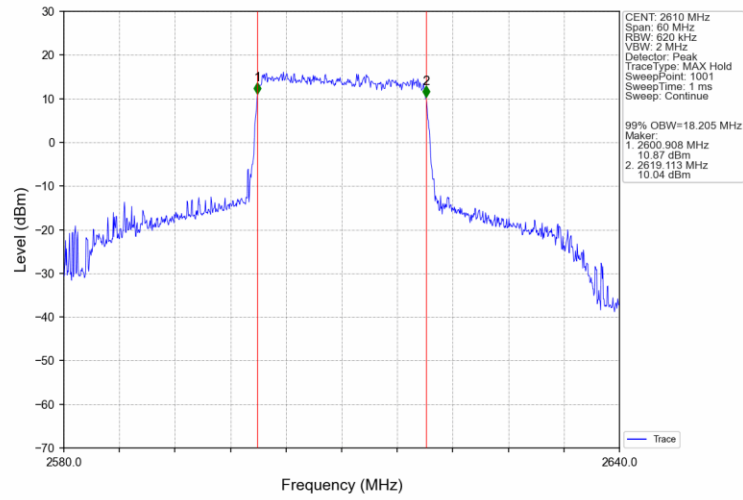
Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



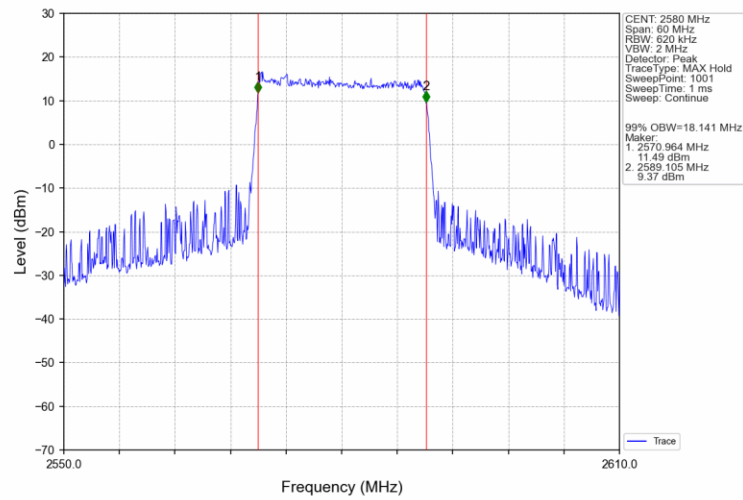
Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



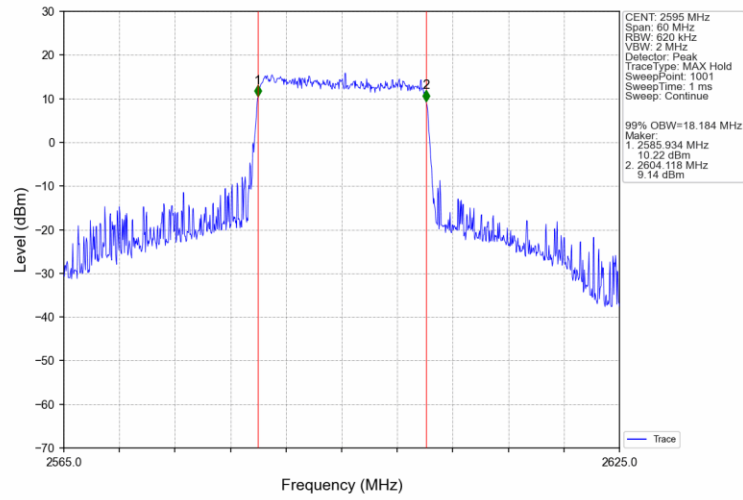
Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



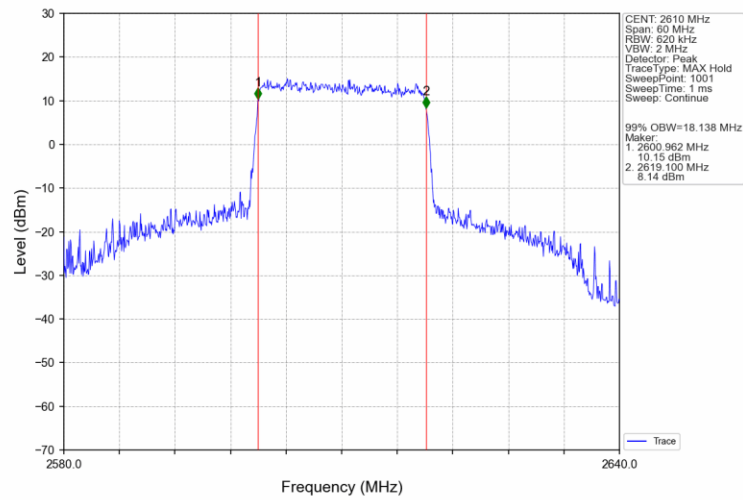
Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV

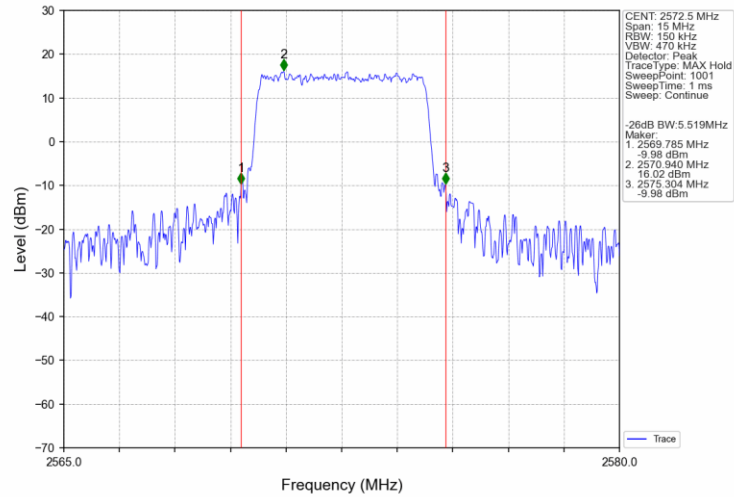


Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV

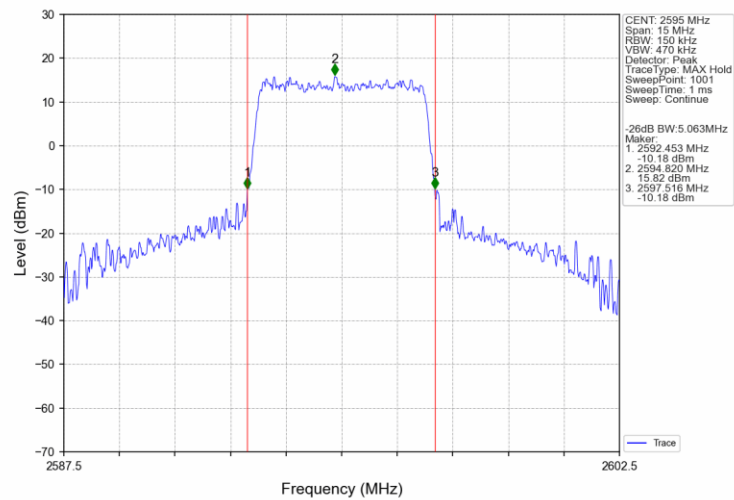


4.2.2 Band38_XDB

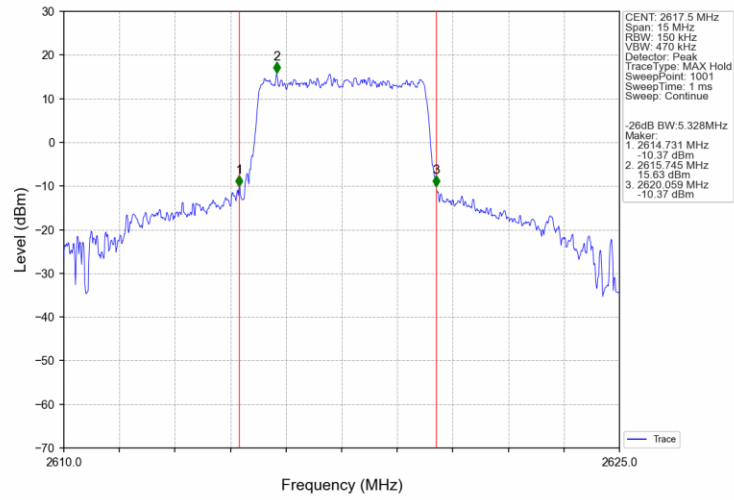
Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV



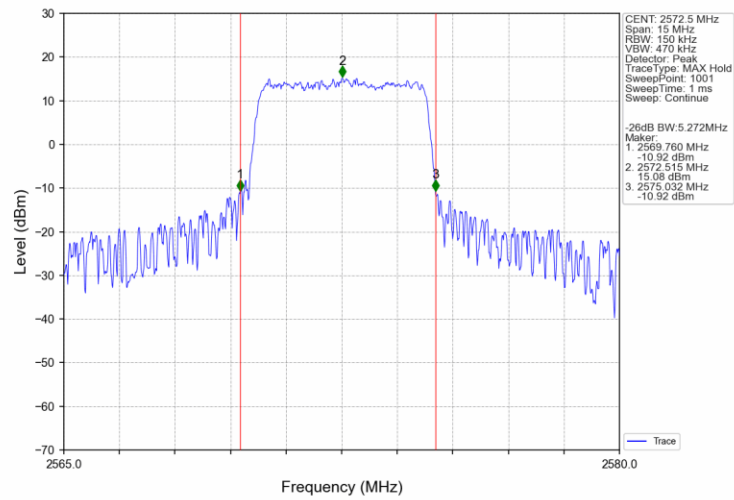
Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



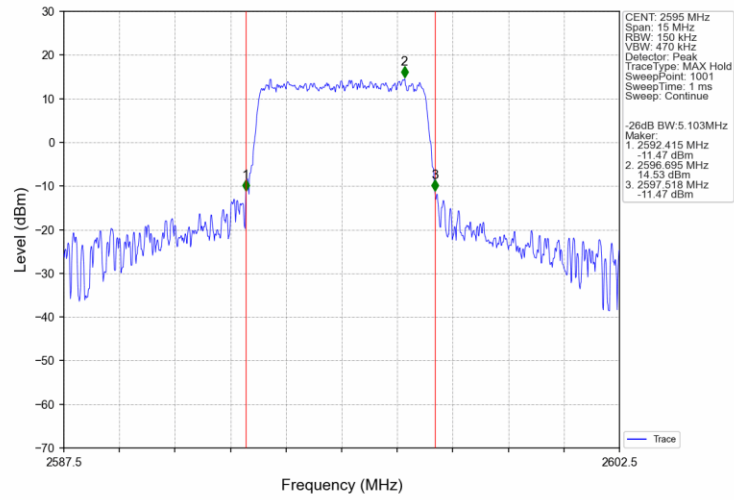
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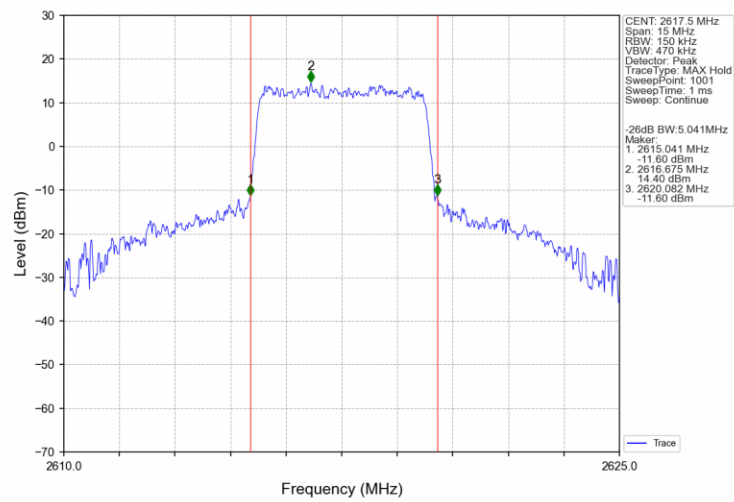
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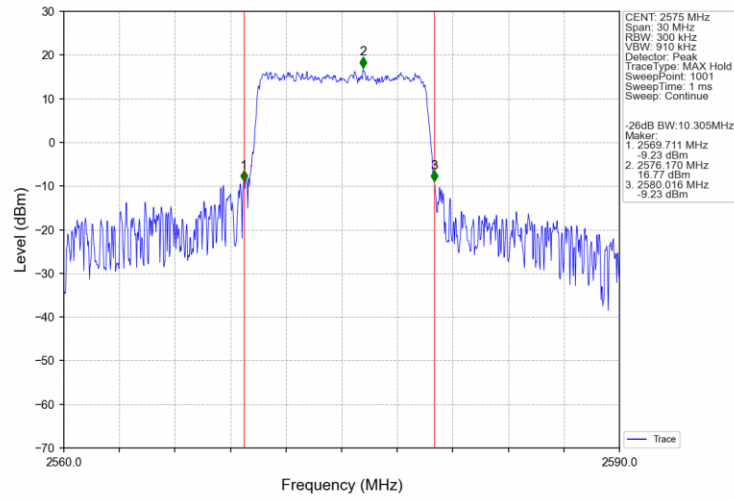
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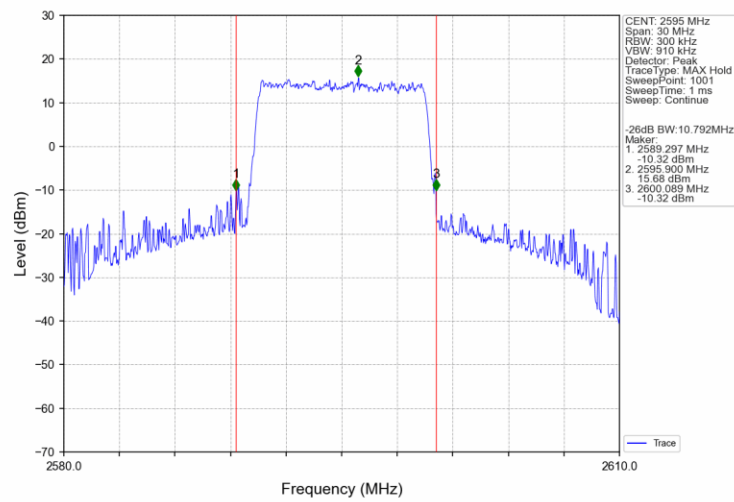
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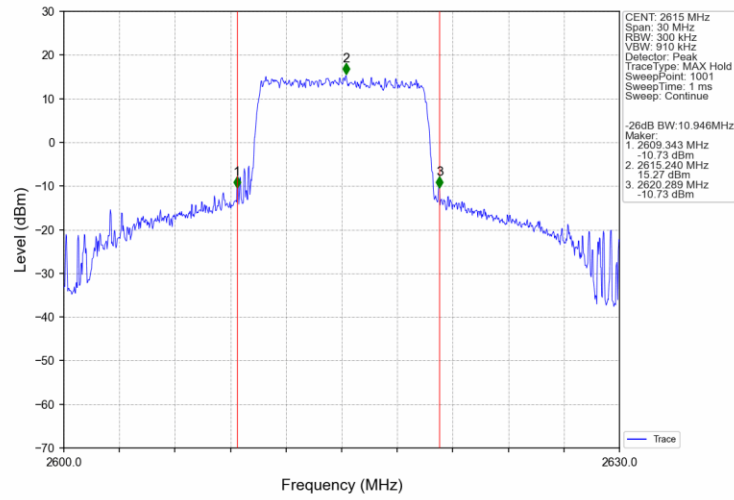
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



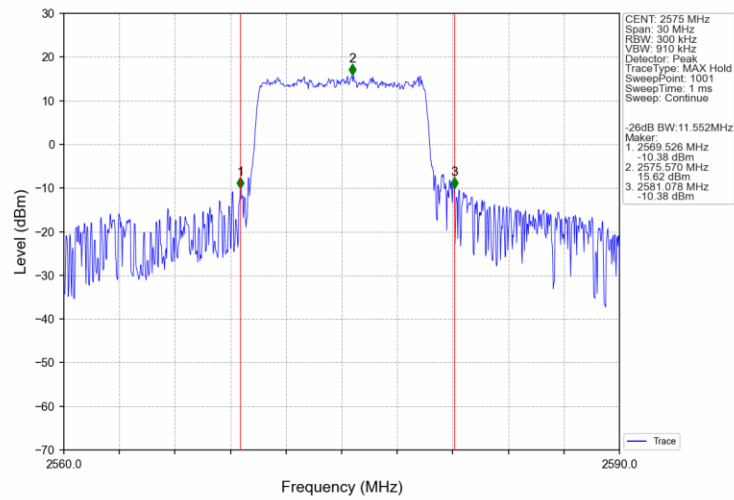
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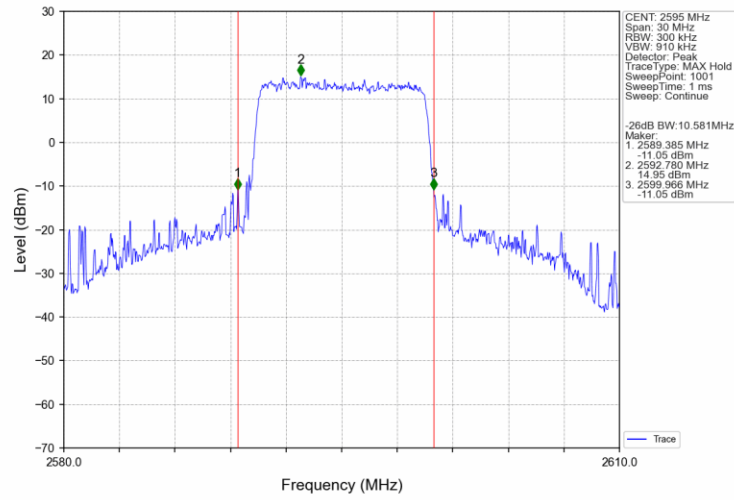
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



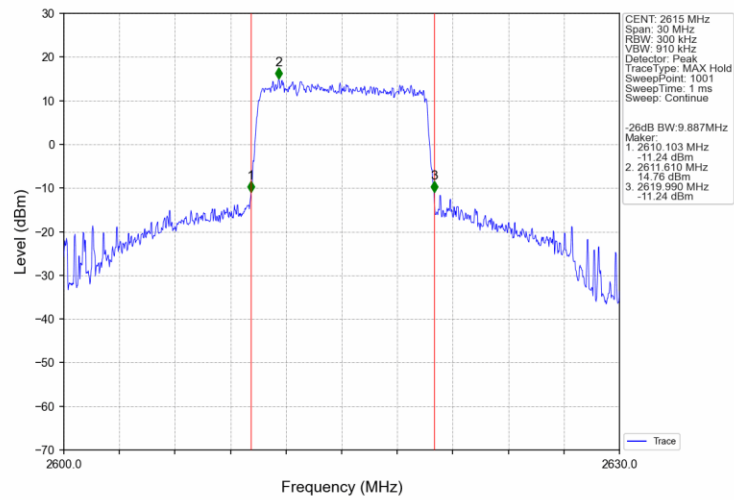
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



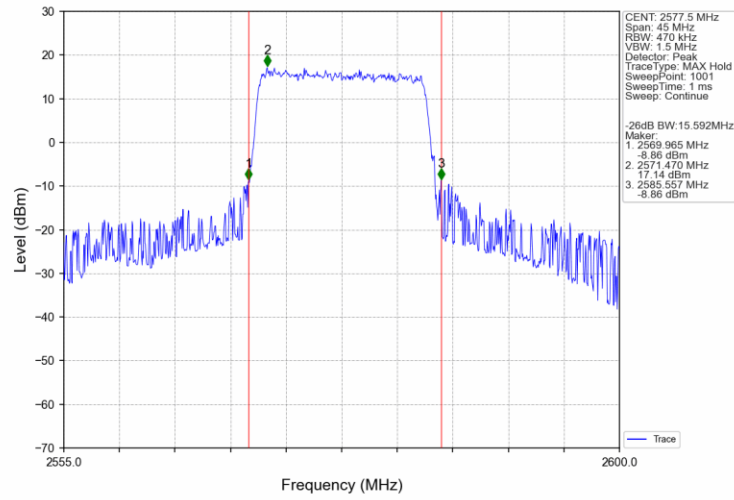
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



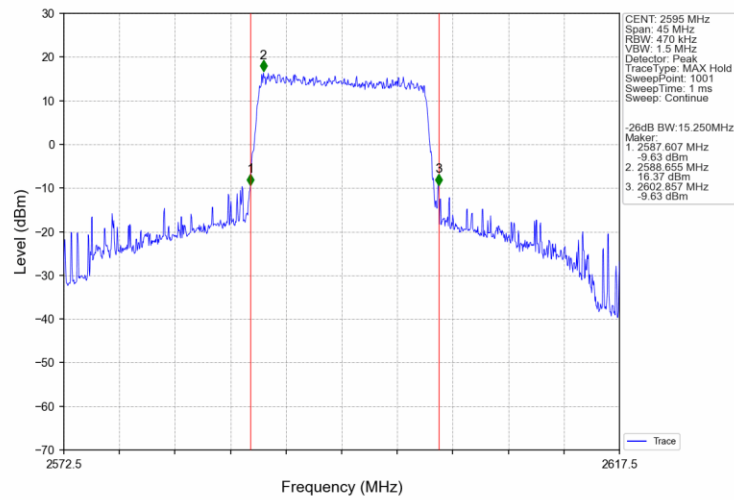
Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV



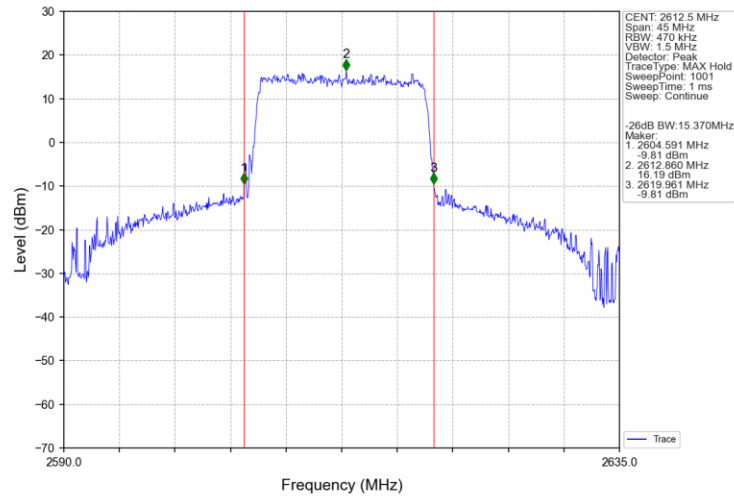
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



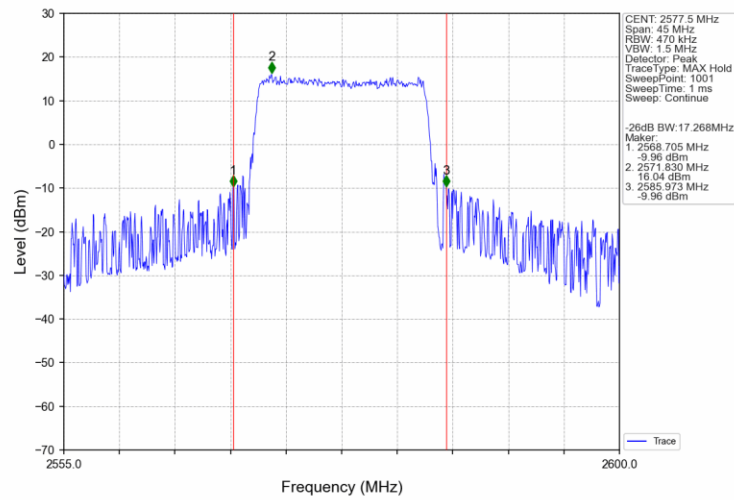
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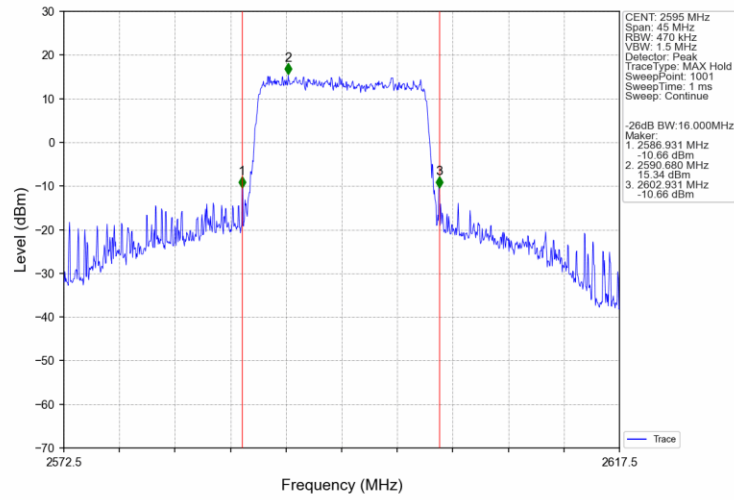
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0 NTN



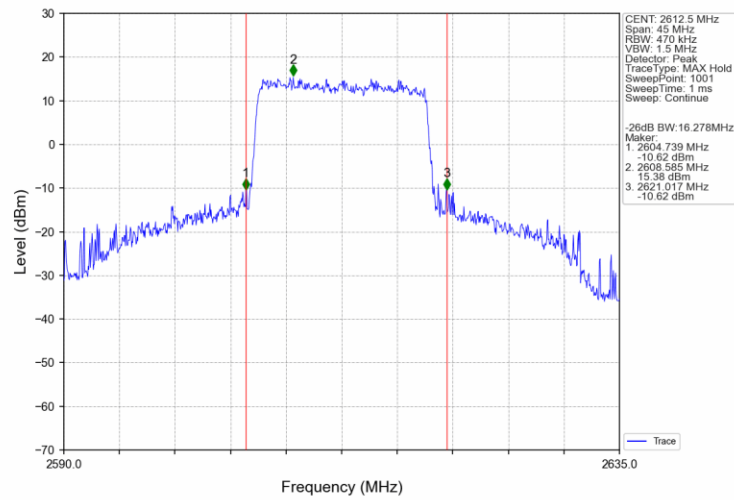
Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0 NTN



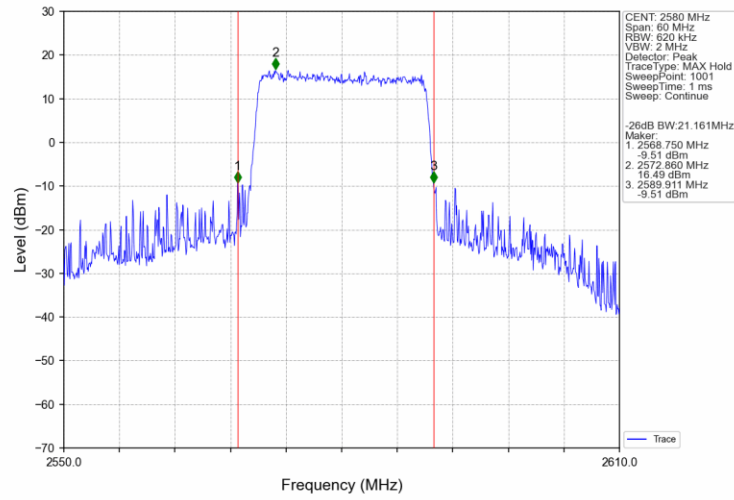
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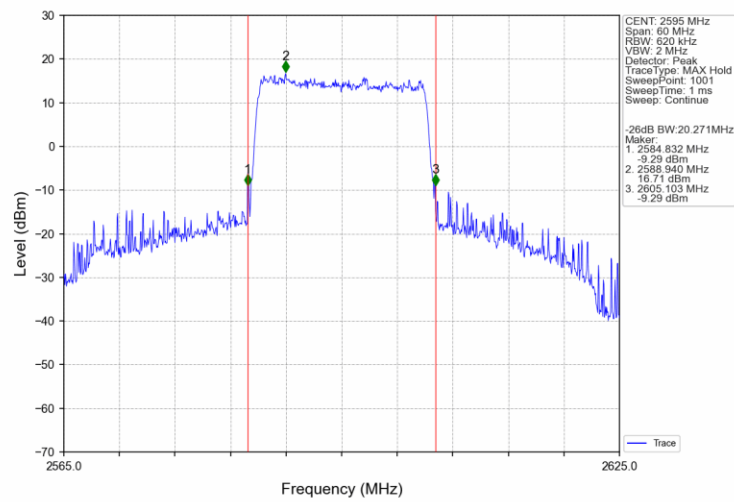
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



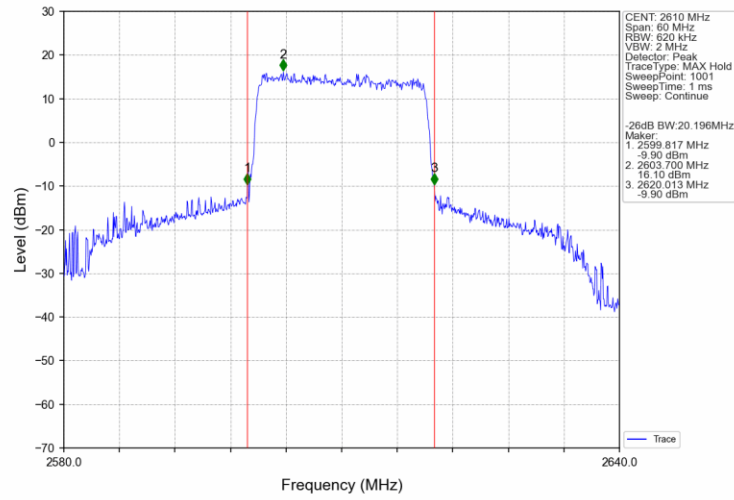
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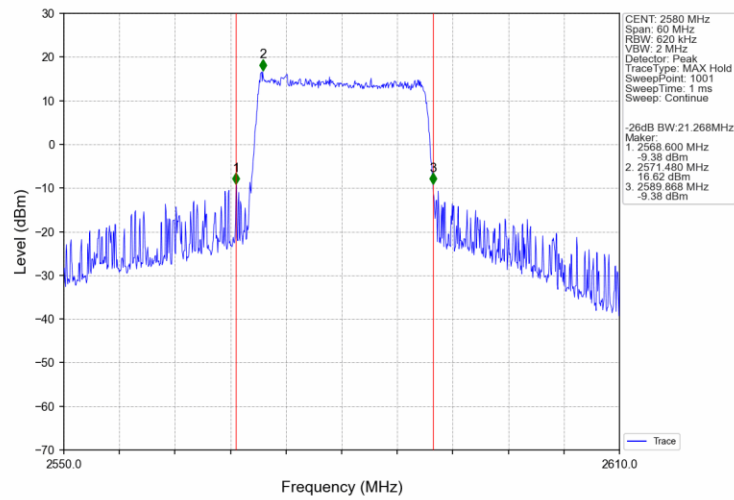
Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



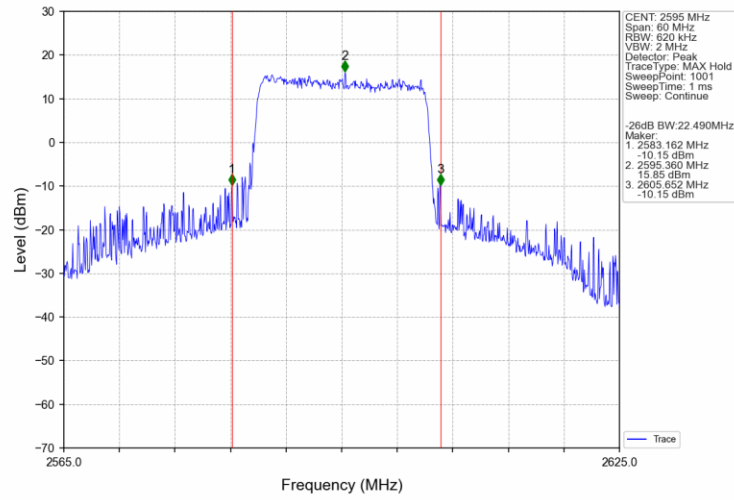
Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



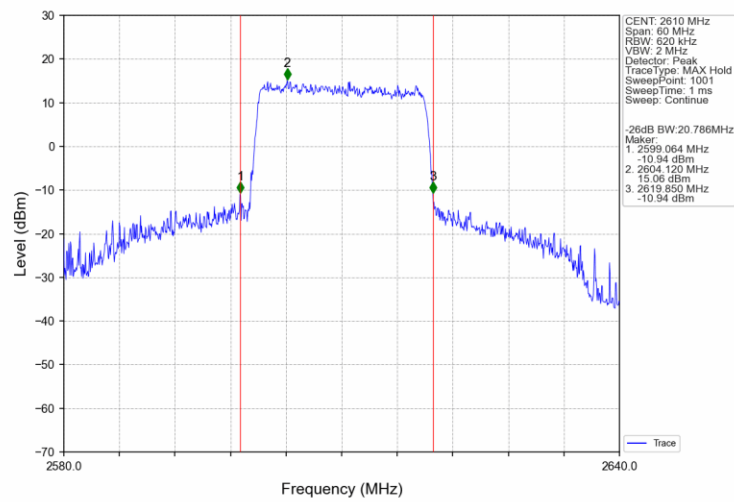
Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	7.43	<=13	Pass
	2595	25	0	7.12	<=13	Pass
	2617.5	25	0	6.63	<=13	Pass
16QAM	2572.5	25	0	8.07	<=13	Pass
	2595	25	0	7.79	<=13	Pass
	2617.5	25	0	7.29	<=13	Pass

5.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	50	0	7.54	<=13	Pass
	2595	50	0	7.15	<=13	Pass
	2615	50	0	6.77	<=13	Pass
16QAM	2575	50	0	8.15	<=13	Pass
	2595	50	0	7.83	<=13	Pass
	2615	50	0	7.52	<=13	Pass

5.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	7.37	<=13	Pass
	2595	75	0	7.26	<=13	Pass
	2612.5	75	0	7.14	<=13	Pass
16QAM	2577.5	75	0	8.07	<=13	Pass
	2595	75	0	7.98	<=13	Pass
	2612.5	75	0	7.62	<=13	Pass

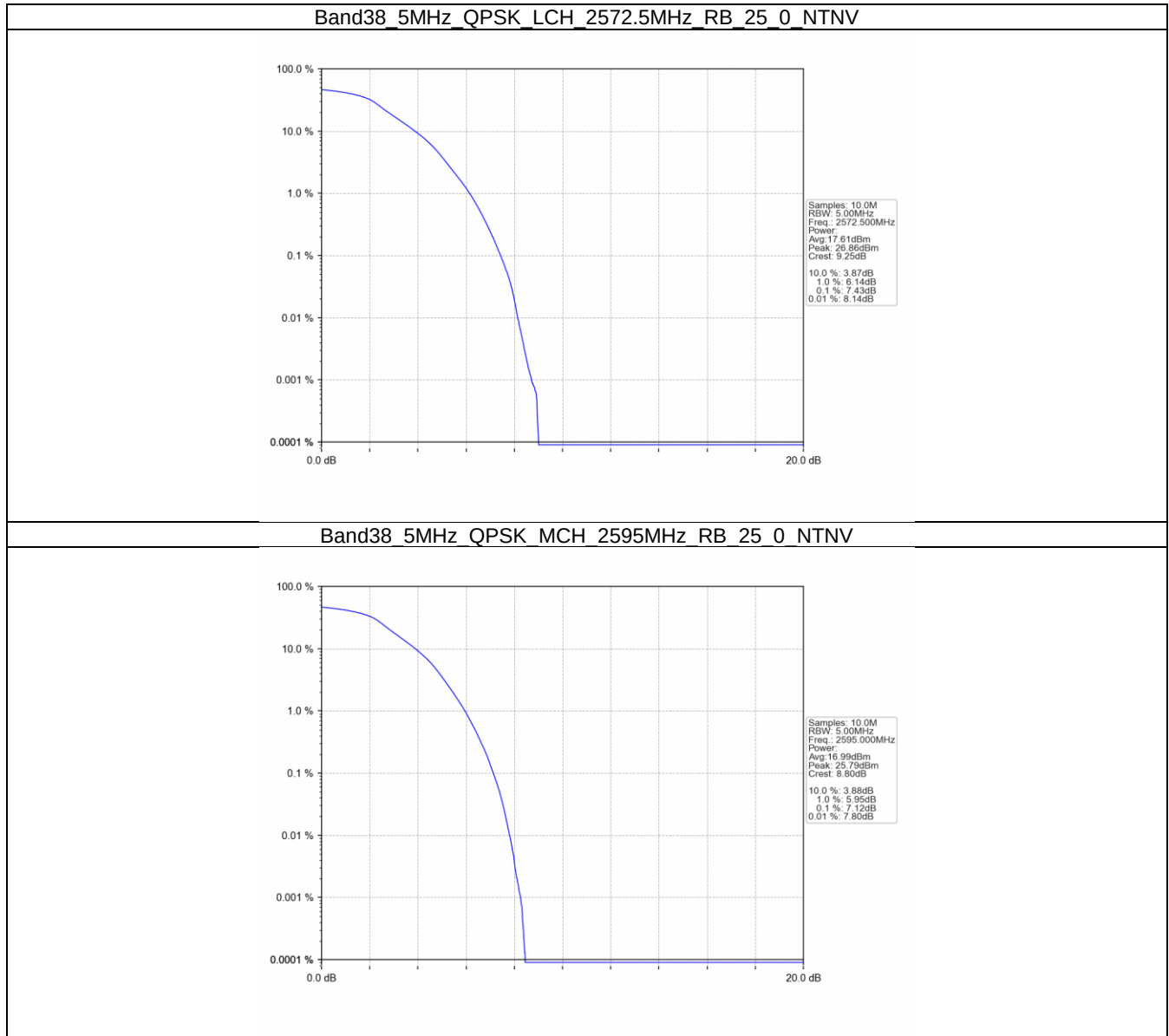
5.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	7.69	<=13	Pass
	2595	100	0	7.76	<=13	Pass
	2610	100	0	7.73	<=13	Pass
16QAM	2580	100	0	8.41	<=13	Pass
	2595	100	0	8.39	<=13	Pass
	2610	100	0	8.53	<=13	Pass

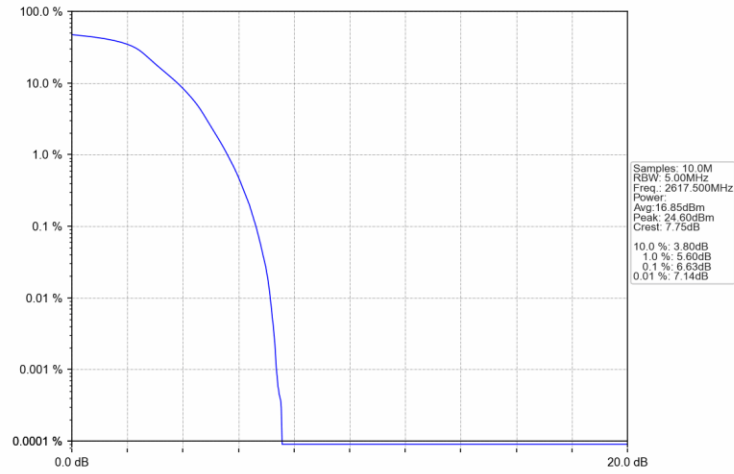


5.2 Test Graph

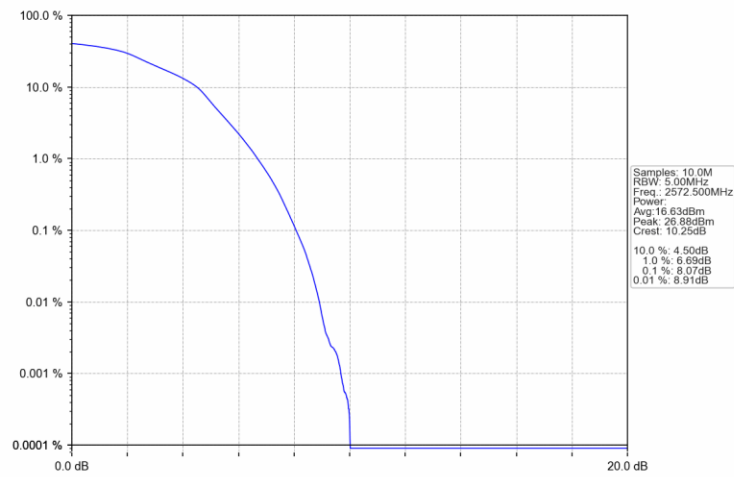
5.2.1 B38_5MHz



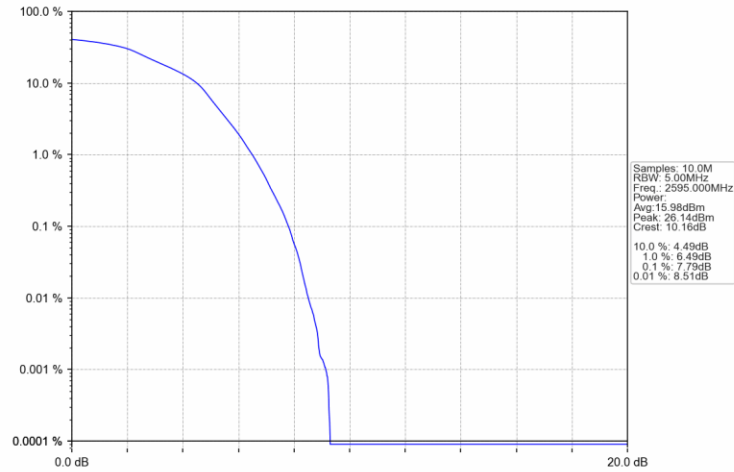
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



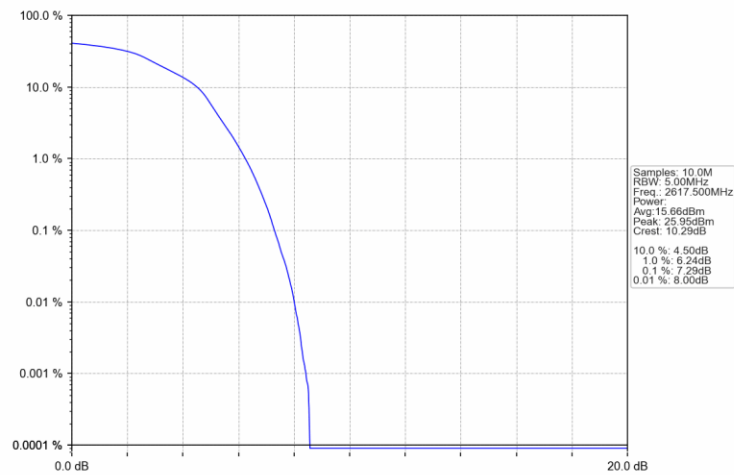
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV

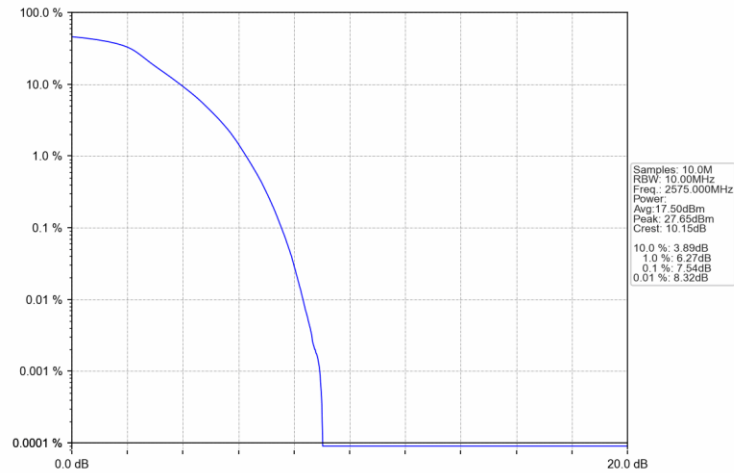


Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV

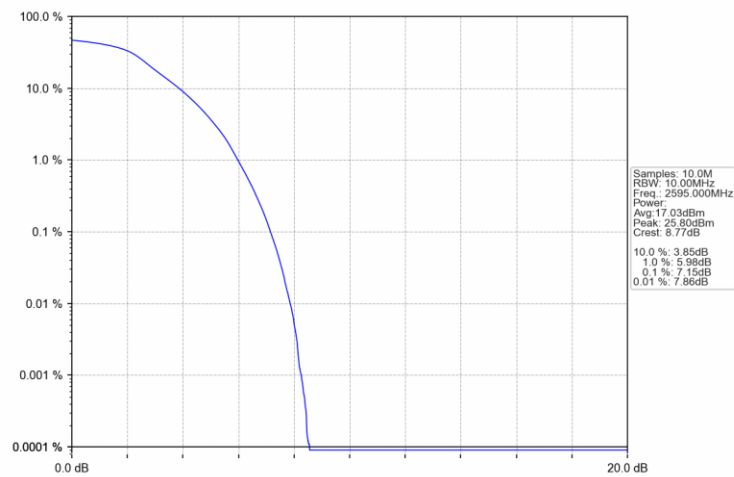


5.2.2 B38_10MHz

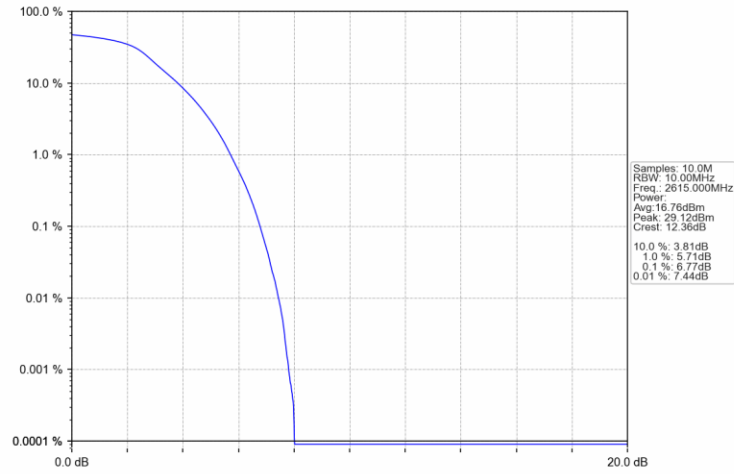
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



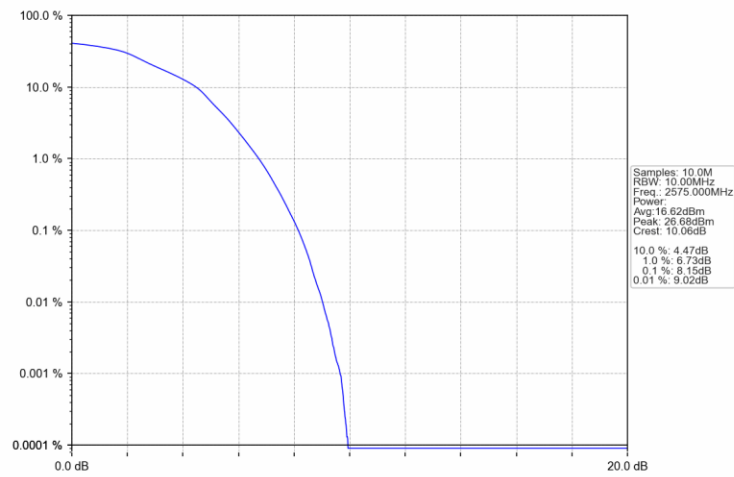
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



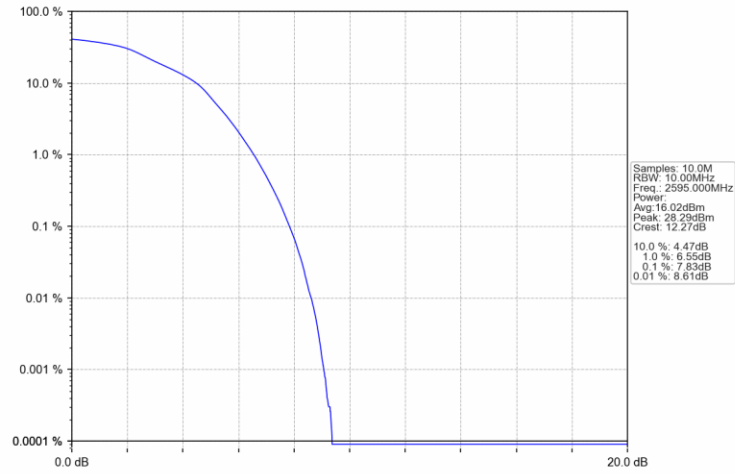
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



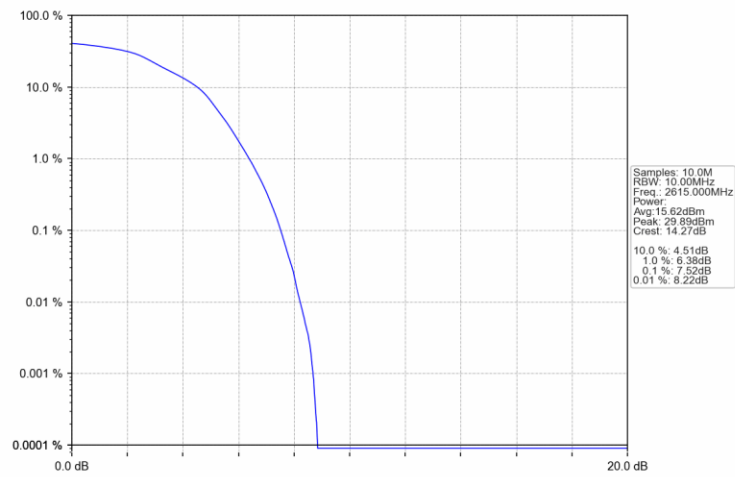
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



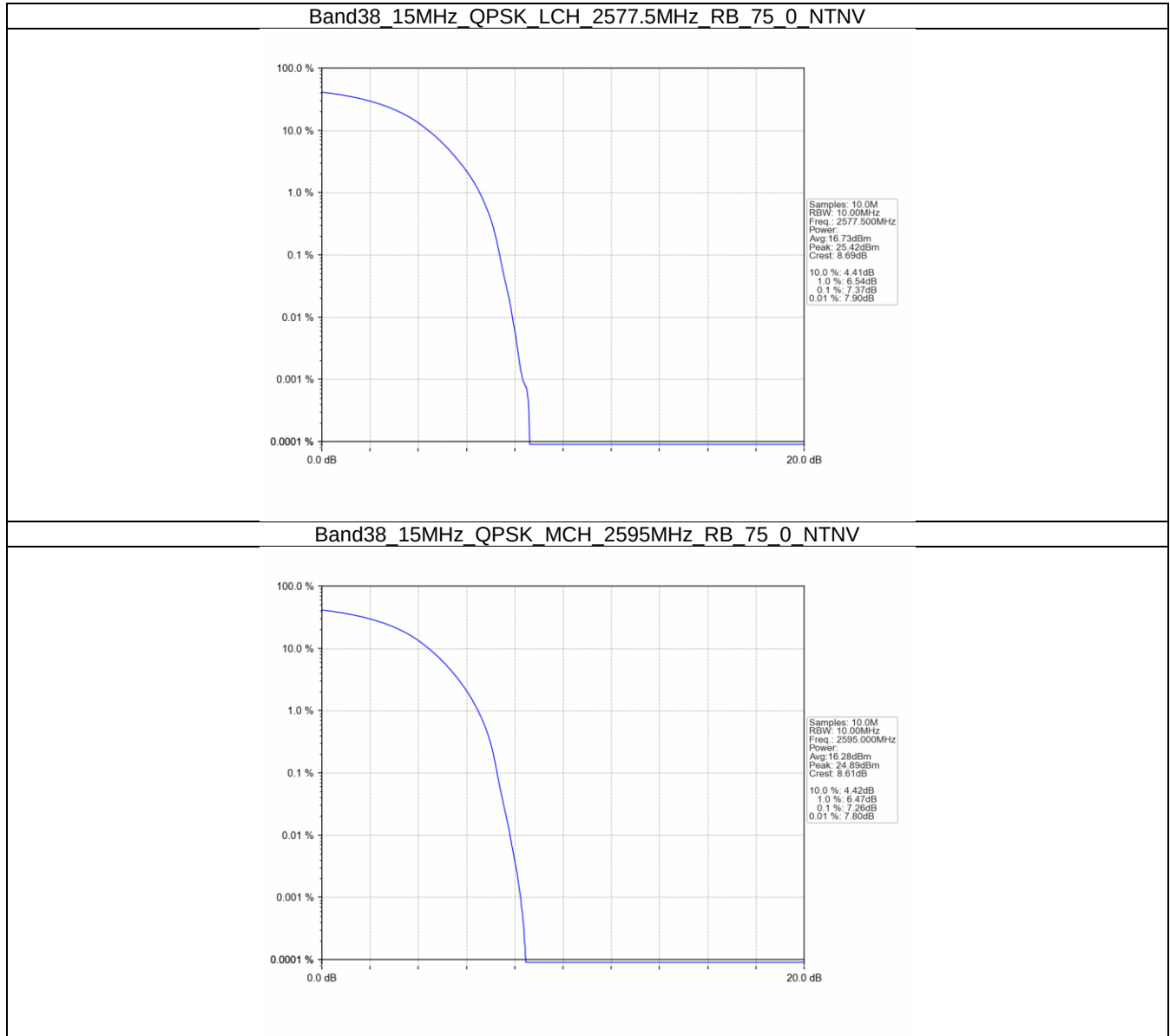
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



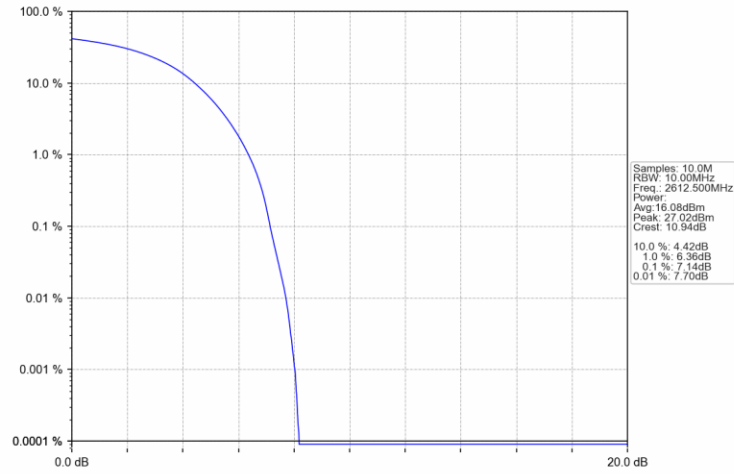
Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV



5.2.3 B38_15MHz



Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV

