

1. Effective (Isotropic) Radiated Power Output Data

1.1 B38_5MHz_EIRP

1.1.1 Test Result

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	20.52	3.00	23.52	<=33.01	Pass
			13	20.65	3.00	23.65	<=33.01	Pass
			24	20.46	3.00	23.46	<=33.01	Pass
		12	0	19.58	3.00	22.58	<=33.01	Pass
			6	19.62	3.00	22.62	<=33.01	Pass
			13	19.49	3.00	22.49	<=33.01	Pass
		25	0	19.53	3.00	22.53	<=33.01	Pass
	2595	1	0	20.58	3.00	23.58	<=33.01	Pass
			13	20.76	3.00	23.76	<=33.01	Pass
			24	20.58	3.00	23.58	<=33.01	Pass
		12	0	19.70	3.00	22.70	<=33.01	Pass
			6	19.75	3.00	22.75	<=33.01	Pass
			13	19.59	3.00	22.59	<=33.01	Pass
		25	0	19.69	3.00	22.69	<=33.01	Pass
	2617.5	1	0	20.45	3.00	23.45	<=33.01	Pass
			13	20.72	3.00	23.72	<=33.01	Pass
			24	20.38	3.00	23.38	<=33.01	Pass
		12	0	19.61	3.00	22.61	<=33.01	Pass
			6	19.65	3.00	22.65	<=33.01	Pass
			13	19.57	3.00	22.57	<=33.01	Pass
		25	0	19.63	3.00	22.63	<=33.01	Pass
16QAM	2572.5	1	0	19.54	3.00	22.54	<=33.01	Pass
			13	19.94	3.00	22.94	<=33.01	Pass
			24	19.47	3.00	22.47	<=33.01	Pass
		12	0	18.51	3.00	21.51	<=33.01	Pass
			6	18.59	3.00	21.59	<=33.01	Pass
			13	18.59	3.00	21.59	<=33.01	Pass
		25	0	18.55	3.00	21.55	<=33.01	Pass
	2595	1	0	19.65	3.00	22.65	<=33.01	Pass
			13	19.82	3.00	22.82	<=33.01	Pass
			24	19.64	3.00	22.64	<=33.01	Pass
		12	0	18.61	3.00	21.61	<=33.01	Pass
			6	18.79	3.00	21.79	<=33.01	Pass
			13	18.71	3.00	21.71	<=33.01	Pass
		25	0	18.66	3.00	21.66	<=33.01	Pass
	2617.5	1	0	19.79	3.00	22.79	<=33.01	Pass
			13	19.75	3.00	22.75	<=33.01	Pass
			24	19.50	3.00	22.50	<=33.01	Pass
		12	0	18.54	3.00	21.54	<=33.01	Pass
			6	18.71	3.00	21.71	<=33.01	Pass
			13	18.49	3.00	21.49	<=33.01	Pass
		25	0	18.58	3.00	21.58	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.2 B38_10MHz_EIRP

1.2.1 Test Result

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	20.50	3.00	23.50	<=33.01	Pass
			25	20.73	3.00	23.73	<=33.01	Pass
			49	20.54	3.00	23.54	<=33.01	Pass
		25	0	19.62	3.00	22.62	<=33.01	Pass
			13	19.63	3.00	22.63	<=33.01	Pass
			25	19.58	3.00	22.58	<=33.01	Pass
		50	0	19.62	3.00	22.62	<=33.01	Pass
	2595	1	0	20.71	3.00	23.71	<=33.01	Pass
			25	20.89	3.00	23.89	<=33.01	Pass
			49	20.69	3.00	23.69	<=33.01	Pass
		25	0	19.77	3.00	22.77	<=33.01	Pass
			13	19.78	3.00	22.78	<=33.01	Pass
			25	19.69	3.00	22.69	<=33.01	Pass
		50	0	19.71	3.00	22.71	<=33.01	Pass
	2615	1	0	20.65	3.00	23.65	<=33.01	Pass
			25	20.77	3.00	23.77	<=33.01	Pass
			49	20.50	3.00	23.50	<=33.01	Pass
		25	0	19.73	3.00	22.73	<=33.01	Pass
			13	19.72	3.00	22.72	<=33.01	Pass
			25	19.62	3.00	22.62	<=33.01	Pass
		50	0	19.67	3.00	22.67	<=33.01	Pass
16QAM	2575	1	0	19.62	3.00	22.62	<=33.01	Pass
			25	19.64	3.00	22.64	<=33.01	Pass
			49	19.63	3.00	22.63	<=33.01	Pass
		25	0	18.69	3.00	21.69	<=33.01	Pass
			13	18.69	3.00	21.69	<=33.01	Pass
			25	18.65	3.00	21.65	<=33.01	Pass
		50	0	18.63	3.00	21.63	<=33.01	Pass
	2595	1	0	19.53	3.00	22.53	<=33.01	Pass
			25	19.71	3.00	22.71	<=33.01	Pass
			49	19.43	3.00	22.43	<=33.01	Pass
		25	0	18.80	3.00	21.80	<=33.01	Pass
			13	18.79	3.00	21.79	<=33.01	Pass
			25	18.72	3.00	21.72	<=33.01	Pass
		50	0	18.75	3.00	21.75	<=33.01	Pass
	2615	1	0	19.86	3.00	22.86	<=33.01	Pass
			25	19.84	3.00	22.84	<=33.01	Pass
			49	19.43	3.00	22.43	<=33.01	Pass
		25	0	18.73	3.00	21.73	<=33.01	Pass
			13	18.66	3.00	21.66	<=33.01	Pass
			25	18.65	3.00	21.65	<=33.01	Pass
		50	0	18.67	3.00	21.67	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.3 B38_15MHz_EIRP

1.3.1 Test Result

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	20.41	3.00	23.41	<=33.01	Pass
			38	20.58	3.00	23.58	<=33.01	Pass
			74	20.45	3.00	23.45	<=33.01	Pass
		36	0	19.50	3.00	22.50	<=33.01	Pass
			18	19.62	3.00	22.62	<=33.01	Pass
			39	19.52	3.00	22.52	<=33.01	Pass
		75	0	19.50	3.00	22.50	<=33.01	Pass
	2595	1	0	20.48	3.00	23.48	<=33.01	Pass
			38	20.69	3.00	23.69	<=33.01	Pass
			74	20.50	3.00	23.50	<=33.01	Pass
		36	0	19.68	3.00	22.68	<=33.01	Pass
			18	19.67	3.00	22.67	<=33.01	Pass
			39	19.58	3.00	22.58	<=33.01	Pass
		75	0	19.56	3.00	22.56	<=33.01	Pass
	2612.5	1	0	20.51	3.00	23.51	<=33.01	Pass
			38	20.57	3.00	23.57	<=33.01	Pass
			74	20.27	3.00	23.30	<=33.01	Pass
		36	0	19.64	3.00	22.64	<=33.01	Pass
			18	19.61	3.00	22.61	<=33.01	Pass
			39	19.54	3.00	22.54	<=33.01	Pass
		75	0	19.62	3.00	22.62	<=33.01	Pass
16QAM	2577.5	1	0	19.30	3.00	22.30	<=33.01	Pass
			38	19.47	3.00	22.47	<=33.01	Pass
			74	19.31	3.00	22.31	<=33.01	Pass
		36	0	18.55	3.00	21.55	<=33.01	Pass
			18	18.55	3.00	21.55	<=33.01	Pass
			39	18.55	3.00	21.55	<=33.01	Pass
		75	0	18.55	3.00	21.55	<=33.01	Pass
	2595	1	0	19.31	3.00	22.31	<=33.01	Pass
			38	19.59	3.00	22.59	<=33.01	Pass
			74	19.38	3.00	22.38	<=33.01	Pass
		36	0	18.65	3.00	21.65	<=33.01	Pass
			18	18.63	3.00	21.63	<=33.01	Pass
			39	18.59	3.00	21.59	<=33.01	Pass
		75	0	18.57	3.00	21.57	<=33.01	Pass
	2612.5	1	0	19.91	3.00	22.91	<=33.01	Pass
			38	19.57	3.00	22.57	<=33.01	Pass
			74	19.46	3.00	22.46	<=33.01	Pass
		36	0	18.69	3.00	21.69	<=33.01	Pass
			18	18.61	3.00	21.61	<=33.01	Pass
			39	18.50	3.00	21.50	<=33.01	Pass
		75	0	18.58	3.00	21.58	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.4 B38_20MHz_EIRP

1.4.1 Test Result

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	20.41	3.00	23.41	<=33.01	Pass	
			50	20.75	3.00	23.75	<=33.01	Pass	
			99	20.39	3.00	23.39	<=33.01	Pass	
		50	0	19.56	3.00	22.56	<=33.01	Pass	
			25	19.62	3.00	22.62	<=33.01	Pass	
			50	19.43	3.00	22.43	<=33.01	Pass	
		100	0	19.49	3.00	22.49	<=33.01	Pass	
		2595	1	0	20.37	3.00	23.37	<=33.01	Pass
				50	20.74	3.00	23.74	<=33.01	Pass
	99			20.38	3.00	23.38	<=33.01	Pass	
	50		0	19.63	3.00	22.63	<=33.01	Pass	
			25	19.65	3.00	22.65	<=33.01	Pass	
			50	19.45	3.00	22.45	<=33.01	Pass	
	100	0	19.56	3.00	22.56	<=33.01	Pass		
	2610	1	0	20.35	3.00	23.35	<=33.01	Pass	
			50	20.78	3.00	23.78	<=33.01	Pass	
			99	20.21	3.00	23.21	<=33.01	Pass	
		50	0	19.59	3.00	22.59	<=33.01	Pass	
			25	19.69	3.00	22.69	<=33.01	Pass	
			50	19.41	3.00	22.41	<=33.01	Pass	
	100	0	19.51	3.00	22.51	<=33.01	Pass		
16QAM	2580	1	0	19.39	3.00	22.39	<=33.01	Pass	
			50	19.68	3.00	22.68	<=33.01	Pass	
			99	19.33	3.00	22.33	<=33.01	Pass	
		50	0	18.62	3.00	21.62	<=33.01	Pass	
			25	18.66	3.00	21.66	<=33.01	Pass	
			50	18.51	3.00	21.51	<=33.01	Pass	
		100	0	18.53	3.00	21.53	<=33.01	Pass	
		2595	1	0	19.13	3.00	22.13	<=33.01	Pass
				50	20.01	3.00	23.01	<=33.01	Pass
	99			19.12	3.00	22.12	<=33.01	Pass	
	50		0	18.75	3.00	21.75	<=33.01	Pass	
			25	18.68	3.00	21.68	<=33.01	Pass	
			50	18.46	3.00	21.46	<=33.01	Pass	
	100	0	18.56	3.00	21.56	<=33.01	Pass		
	2610	1	0	19.03	3.00	22.03	<=33.01	Pass	
			50	19.85	3.00	22.85	<=33.01	Pass	
			99	19.31	3.00	22.31	<=33.01	Pass	
		50	0	18.64	3.00	21.64	<=33.01	Pass	
			25	18.65	3.00	21.65	<=33.01	Pass	
			50	18.45	3.00	21.45	<=33.01	Pass	
		100	0	18.59	3.00	21.59	<=33.01	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

2. Frequency Stability

2.1 B38_5MHz

2.1.1 Test Result

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	3.30	6.380	0.0025	-2.5 to 2.5	Pass
					3.70	-2.789	-0.0011	-2.5 to 2.5	Pass
					4.00	-2.861	-0.0011	-2.5 to 2.5	Pass
				-30	3.70	-14.091	-0.0055	-2.5 to 2.5	Pass
				-20	3.70	-7.739	-0.0030	-2.5 to 2.5	Pass
				-10	3.70	-11.487	-0.0045	-2.5 to 2.5	Pass
				0	3.70	38.037	0.0148	-2.5 to 2.5	Pass
				10	3.70	36.478	0.0142	-2.5 to 2.5	Pass
				30	3.70	38.595	0.0150	-2.5 to 2.5	Pass
				40	3.70	36.378	0.0141	-2.5 to 2.5	Pass
				50	3.70	35.362	0.0137	-2.5 to 2.5	Pass
	2595	25	0	20	3.30	-3.047	-0.0012	-2.5 to 2.5	Pass
					3.70	-8.225	-0.0032	-2.5 to 2.5	Pass
					4.00	-13.518	-0.0052	-2.5 to 2.5	Pass
				-30	3.70	-23.417	-0.0090	-2.5 to 2.5	Pass
				-20	3.70	-33.689	-0.0130	-2.5 to 2.5	Pass
				-10	3.70	-41.041	-0.0158	-2.5 to 2.5	Pass
				0	3.70	-46.520	-0.0179	-2.5 to 2.5	Pass
				10	3.70	-54.817	-0.0211	-2.5 to 2.5	Pass
				30	3.70	1333.609	0.5139	-2.5 to 2.5	Pass
				40	3.70	1332.307	0.5134	-2.5 to 2.5	Pass
				50	3.70	1325.483	0.5108	-2.5 to 2.5	Pass
	2617.5	25	0	20	3.30	43.159	0.0165	-2.5 to 2.5	Pass
					3.70	45.261	0.0173	-2.5 to 2.5	Pass
					4.00	22.588	0.0086	-2.5 to 2.5	Pass
				-30	3.70	21.415	0.0082	-2.5 to 2.5	Pass
				-20	3.70	24.004	0.0092	-2.5 to 2.5	Pass
				-10	3.70	31.343	0.0120	-2.5 to 2.5	Pass
				0	3.70	20.156	0.0077	-2.5 to 2.5	Pass
				10	3.70	15.936	0.0061	-2.5 to 2.5	Pass
				30	3.70	11.573	0.0044	-2.5 to 2.5	Pass
				40	3.70	5.937	0.0023	-2.5 to 2.5	Pass
16QAM	2572.5	25	0	20	3.30	35.577	0.0138	-2.5 to 2.5	Pass
					3.70	40.855	0.0159	-2.5 to 2.5	Pass
					4.00	48.137	0.0187	-2.5 to 2.5	Pass
				-30	3.70	56.891	0.0221	-2.5 to 2.5	Pass
				-20	3.70	37.236	0.0145	-2.5 to 2.5	Pass
				-10	3.70	22.988	0.0089	-2.5 to 2.5	Pass
				0	3.70	24.133	0.0094	-2.5 to 2.5	Pass
				10	3.70	34.733	0.0135	-2.5 to 2.5	Pass
				30	3.70	39.153	0.0152	-2.5 to 2.5	Pass
				40	3.70	35.162	0.0137	-2.5 to 2.5	Pass
				50	3.70	30.270	0.0118	-2.5 to 2.5	Pass
	2595	25	0	20	3.30	-15.593	-0.0060	-2.5 to 2.5	Pass
					3.70	-8.168	-0.0031	-2.5 to 2.5	Pass
					4.00	-11.902	-0.0046	-2.5 to 2.5	Pass
				-30	3.70	-24.390	-0.0094	-2.5 to 2.5	Pass
				-20	3.70	-32.387	-0.0125	-2.5 to 2.5	Pass
				-10	3.70	-34.661	-0.0134	-2.5 to 2.5	Pass
				0	3.70	-42.758	-0.0165	-2.5 to 2.5	Pass
				10	3.70	-56.534	-0.0218	-2.5 to 2.5	Pass
				30	3.70	-60.325	-0.0232	-2.5 to 2.5	Pass

	2617.5	25	0	40	3.70	-60.954	-0.0235	-2.5 to 2.5	Pass
				50	3.70	-67.792	-0.0261	-2.5 to 2.5	Pass
				20	3.30	-18.425	-0.0070	-2.5 to 2.5	Pass
					3.70	-24.991	-0.0095	-2.5 to 2.5	Pass
					4.00	-30.112	-0.0115	-2.5 to 2.5	Pass
				-30	3.70	-39.310	-0.0150	-2.5 to 2.5	Pass
				-20	3.70	-53.430	-0.0204	-2.5 to 2.5	Pass
				-10	3.70	-54.545	-0.0208	-2.5 to 2.5	Pass
				0	3.70	-62.127	-0.0237	-2.5 to 2.5	Pass
				10	3.70	-72.498	-0.0277	-2.5 to 2.5	Pass
				30	3.70	-86.045	-0.0329	-2.5 to 2.5	Pass
				40	3.70	-95.487	-0.0365	-2.5 to 2.5	Pass
				50	3.70	-103.784	-0.0397	-2.5 to 2.5	Pass

2.2 B38_10MHz

2.2.1 Test Result

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	3.30	-14.906	-0.0058	-2.5 to 2.5	Pass
					3.70	-8.454	-0.0033	-2.5 to 2.5	Pass
					4.00	-6.924	-0.0027	-2.5 to 2.5	Pass
				-30	3.70	-11.816	-0.0046	-2.5 to 2.5	Pass
				-20	3.70	-11.501	-0.0045	-2.5 to 2.5	Pass
				-10	3.70	-5.693	-0.0022	-2.5 to 2.5	Pass
				0	3.70	-12.589	-0.0049	-2.5 to 2.5	Pass
				10	3.70	-10.843	-0.0042	-2.5 to 2.5	Pass
				30	3.70	-6.609	-0.0026	-2.5 to 2.5	Pass
				40	3.70	-8.225	-0.0032	-2.5 to 2.5	Pass
	2595	50	0	50	3.70	-10.486	-0.0041	-2.5 to 2.5	Pass
				20	3.30	-7.210	-0.0028	-2.5 to 2.5	Pass
					3.70	-4.520	-0.0017	-2.5 to 2.5	Pass
					4.00	-4.292	-0.0017	-2.5 to 2.5	Pass
				-30	3.70	-5.178	-0.0020	-2.5 to 2.5	Pass
				-20	3.70	-1.101	-0.0004	-2.5 to 2.5	Pass
				-10	3.70	0.014	0.0000	-2.5 to 2.5	Pass
				0	3.70	-10.700	-0.0041	-2.5 to 2.5	Pass
				10	3.70	-6.580	-0.0025	-2.5 to 2.5	Pass
				30	3.70	-9.284	-0.0036	-2.5 to 2.5	Pass
	2615	50	0	40	3.70	-9.427	-0.0036	-2.5 to 2.5	Pass
				50	3.70	-7.567	-0.0029	-2.5 to 2.5	Pass
				20	3.30	-10.743	-0.0041	-2.5 to 2.5	Pass
					3.70	-5.622	-0.0021	-2.5 to 2.5	Pass
					4.00	-11.458	-0.0044	-2.5 to 2.5	Pass
				-30	3.70	0.443	0.0002	-2.5 to 2.5	Pass
				-20	3.70	-10.171	-0.0039	-2.5 to 2.5	Pass
				-10	3.70	-1.216	-0.0005	-2.5 to 2.5	Pass
				0	3.70	-8.812	-0.0034	-2.5 to 2.5	Pass
				10	3.70	-7.768	-0.0030	-2.5 to 2.5	Pass
16QAM	2575	50	0	20	3.70	-4.277	-0.0016	-2.5 to 2.5	Pass
					3.70	-5.021	-0.0019	-2.5 to 2.5	Pass
					3.70	-11.415	-0.0044	-2.5 to 2.5	Pass
	2575	50	0	20	3.30	-5.064	-0.0020	-2.5 to 2.5	Pass
					3.70	-11.530	-0.0045	-2.5 to 2.5	Pass
					4.00	-8.068	-0.0031	-2.5 to 2.5	Pass

				-30	3.70	-8.826	-0.0034	-2.5 to 2.5	Pass
				-20	3.70	-4.563	-0.0018	-2.5 to 2.5	Pass
				-10	3.70	-2.160	-0.0008	-2.5 to 2.5	Pass
				0	3.70	-10.428	-0.0040	-2.5 to 2.5	Pass
				10	3.70	-10.901	-0.0042	-2.5 to 2.5	Pass
				30	3.70	-9.298	-0.0036	-2.5 to 2.5	Pass
				40	3.70	-12.774	-0.0050	-2.5 to 2.5	Pass
				50	3.70	-10.786	-0.0042	-2.5 to 2.5	Pass
	2595	50	0	20	3.30	-1.130	-0.0004	-2.5 to 2.5	Pass
					3.70	-10.514	-0.0041	-2.5 to 2.5	Pass
					4.00	-1.774	-0.0007	-2.5 to 2.5	Pass
				-30	3.70	-12.774	-0.0049	-2.5 to 2.5	Pass
				-20	3.70	-1.187	-0.0005	-2.5 to 2.5	Pass
				-10	3.70	-12.975	-0.0050	-2.5 to 2.5	Pass
				0	3.70	-5.264	-0.0020	-2.5 to 2.5	Pass
				10	3.70	-6.537	-0.0025	-2.5 to 2.5	Pass
				30	3.70	-5.908	-0.0023	-2.5 to 2.5	Pass
				40	3.70	-10.228	-0.0039	-2.5 to 2.5	Pass
				50	3.70	-3.306	-0.0013	-2.5 to 2.5	Pass
	2615	50	0	20	3.30	-0.200	-0.0001	-2.5 to 2.5	Pass
					3.70	-8.626	-0.0033	-2.5 to 2.5	Pass
					4.00	-3.648	-0.0014	-2.5 to 2.5	Pass
				-30	3.70	-2.546	-0.0010	-2.5 to 2.5	Pass
				-20	3.70	-10.643	-0.0041	-2.5 to 2.5	Pass
				-10	3.70	-6.824	-0.0026	-2.5 to 2.5	Pass
				0	3.70	-5.751	-0.0022	-2.5 to 2.5	Pass
				10	3.70	-8.397	-0.0032	-2.5 to 2.5	Pass
				30	3.70	-7.010	-0.0027	-2.5 to 2.5	Pass
				40	3.70	-8.483	-0.0032	-2.5 to 2.5	Pass
				50	3.70	-7.095	-0.0027	-2.5 to 2.5	Pass

2.3 B38_15MHz

2.3.1 Test Result

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	3.30	-14.935	-0.0058	-2.5 to 2.5	Pass
					3.70	-5.851	-0.0023	-2.5 to 2.5	Pass
					4.00	-7.195	-0.0028	-2.5 to 2.5	Pass
				-30	3.70	-5.193	-0.0020	-2.5 to 2.5	Pass
				-20	3.70	-5.507	-0.0021	-2.5 to 2.5	Pass
				-10	3.70	-5.994	-0.0023	-2.5 to 2.5	Pass
				0	3.70	-3.119	-0.0012	-2.5 to 2.5	Pass
				10	3.70	-2.975	-0.0012	-2.5 to 2.5	Pass
				30	3.70	0.186	0.0001	-2.5 to 2.5	Pass
				40	3.70	-1.273	-0.0005	-2.5 to 2.5	Pass
				50	3.70	-0.229	-0.0001	-2.5 to 2.5	Pass
	2595	75	0	20	3.30	-7.253	-0.0028	-2.5 to 2.5	Pass
					3.70	-13.289	-0.0051	-2.5 to 2.5	Pass
					4.00	-12.245	-0.0047	-2.5 to 2.5	Pass
				-30	3.70	-12.088	-0.0047	-2.5 to 2.5	Pass
				-20	3.70	-6.666	-0.0026	-2.5 to 2.5	Pass
				-10	3.70	-13.447	-0.0052	-2.5 to 2.5	Pass
				0	3.70	-8.626	-0.0033	-2.5 to 2.5	Pass
				10	3.70	-8.268	-0.0032	-2.5 to 2.5	Pass
				30	3.70	-3.519	-0.0014	-2.5 to 2.5	Pass
				40	3.70	-11.215	-0.0043	-2.5 to 2.5	Pass

				50	3.70	-9.241	-0.0036	-2.5 to 2.5	Pass			
	2612.5	75	0	20	3.30	-10.271	-0.0039	-2.5 to 2.5	Pass			
					3.70	-3.476	-0.0013	-2.5 to 2.5	Pass			
					4.00	-13.075	-0.0050	-2.5 to 2.5	Pass			
					-30	3.70	-5.636	-0.0022	-2.5 to 2.5	Pass		
				-20	3.70	-9.012	-0.0034	-2.5 to 2.5	Pass			
				-10	3.70	-2.890	-0.0011	-2.5 to 2.5	Pass			
				0	3.70	-9.642	-0.0037	-2.5 to 2.5	Pass			
				10	3.70	-4.134	-0.0016	-2.5 to 2.5	Pass			
				30	3.70	-8.354	-0.0032	-2.5 to 2.5	Pass			
				40	3.70	-8.197	-0.0031	-2.5 to 2.5	Pass			
				50	3.70	-10.457	-0.0040	-2.5 to 2.5	Pass			
16QAM	2577.5	75	0	20	3.30	-5.894	-0.0023	-2.5 to 2.5	Pass			
					3.70	-2.618	-0.0010	-2.5 to 2.5	Pass			
					4.00	-5.050	-0.0020	-2.5 to 2.5	Pass			
					-30	3.70	-2.904	-0.0011	-2.5 to 2.5	Pass		
				-20	3.70	-8.969	-0.0035	-2.5 to 2.5	Pass			
				-10	3.70	-5.865	-0.0023	-2.5 to 2.5	Pass			
				0	3.70	-11.001	-0.0043	-2.5 to 2.5	Pass			
				10	3.70	-2.718	-0.0011	-2.5 to 2.5	Pass			
				30	3.70	-8.197	-0.0032	-2.5 to 2.5	Pass			
				40	3.70	-4.892	-0.0019	-2.5 to 2.5	Pass			
				50	3.70	-7.596	-0.0029	-2.5 to 2.5	Pass			
				2595	75	0	20	3.30	-2.489	-0.0010	-2.5 to 2.5	Pass
								3.70	-9.398	-0.0036	-2.5 to 2.5	Pass
								4.00	-3.848	-0.0015	-2.5 to 2.5	Pass
							-30	3.70	-9.155	-0.0035	-2.5 to 2.5	Pass
							-20	3.70	-5.250	-0.0020	-2.5 to 2.5	Pass
							-10	3.70	-8.168	-0.0031	-2.5 to 2.5	Pass
	0	3.70	-7.768				-0.0030	-2.5 to 2.5	Pass			
	10	3.70	-11.544				-0.0044	-2.5 to 2.5	Pass			
	30	3.70	-1.645				-0.0006	-2.5 to 2.5	Pass			
	40	3.70	-10.099	-0.0039	-2.5 to 2.5	Pass						
	50	3.70	-9.341	-0.0036	-2.5 to 2.5	Pass						
	2612.5	75	0	20	3.30	-4.978	-0.0019	-2.5 to 2.5	Pass			
					3.70	-7.153	-0.0027	-2.5 to 2.5	Pass			
					4.00	-10.328	-0.0040	-2.5 to 2.5	Pass			
				-30	3.70	-9.928	-0.0038	-2.5 to 2.5	Pass			
				-20	3.70	-9.184	-0.0035	-2.5 to 2.5	Pass			
				-10	3.70	-5.951	-0.0023	-2.5 to 2.5	Pass			
				0	3.70	-11.745	-0.0045	-2.5 to 2.5	Pass			
				10	3.70	-1.802	-0.0007	-2.5 to 2.5	Pass			
				30	3.70	-10.557	-0.0040	-2.5 to 2.5	Pass			
				40	3.70	-4.778	-0.0018	-2.5 to 2.5	Pass			
				50	3.70	-8.755	-0.0034	-2.5 to 2.5	Pass			

2.4 B38_20MHz

2.4.1 Test Result

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	3.30	-12.102	-0.0047	-2.5 to 2.5	Pass
					3.70	-8.526	-0.0033	-2.5 to 2.5	Pass
					4.00	-8.225	-0.0032	-2.5 to 2.5	Pass
				-30	3.70	-7.024	-0.0027	-2.5 to 2.5	Pass

16QAM				-20	3.70	-5.422	-0.0021	-2.5 to 2.5	Pass
				-10	3.70	0.014	0.0000	-2.5 to 2.5	Pass
				0	3.70	-6.652	-0.0026	-2.5 to 2.5	Pass
				10	3.70	-5.550	-0.0022	-2.5 to 2.5	Pass
				30	3.70	-6.065	-0.0024	-2.5 to 2.5	Pass
				40	3.70	-0.515	-0.0002	-2.5 to 2.5	Pass
				50	3.70	-6.580	-0.0026	-2.5 to 2.5	Pass
	2595	100	0	20	3.30	-5.136	-0.0020	-2.5 to 2.5	Pass
					3.70	-2.646	-0.0010	-2.5 to 2.5	Pass
					4.00	-1.359	-0.0005	-2.5 to 2.5	Pass
				-30	3.70	-1.674	-0.0006	-2.5 to 2.5	Pass
				-20	3.70	-7.238	-0.0028	-2.5 to 2.5	Pass
				-10	3.70	-1.731	-0.0007	-2.5 to 2.5	Pass
				0	3.70	-5.822	-0.0022	-2.5 to 2.5	Pass
				10	3.70	-5.136	-0.0020	-2.5 to 2.5	Pass
				30	3.70	-2.489	-0.0010	-2.5 to 2.5	Pass
				40	3.70	-7.224	-0.0028	-2.5 to 2.5	Pass
				50	3.70	-2.475	-0.0010	-2.5 to 2.5	Pass
				20	3.30	-8.969	-0.0034	-2.5 to 2.5	Pass
					3.70	-8.225	-0.0032	-2.5 to 2.5	Pass
					4.00	-6.824	-0.0026	-2.5 to 2.5	Pass
	2610	100	0	-30	3.70	-12.875	-0.0049	-2.5 to 2.5	Pass
				-20	3.70	-5.679	-0.0022	-2.5 to 2.5	Pass
				-10	3.70	-9.627	-0.0037	-2.5 to 2.5	Pass
				0	3.70	-11.816	-0.0045	-2.5 to 2.5	Pass
				10	3.70	-6.380	-0.0024	-2.5 to 2.5	Pass
				30	3.70	-5.565	-0.0021	-2.5 to 2.5	Pass
				40	3.70	-6.151	-0.0024	-2.5 to 2.5	Pass
				50	3.70	-11.129	-0.0043	-2.5 to 2.5	Pass
	2580	100	0	20	3.30	-9.971	-0.0039	-2.5 to 2.5	Pass
					3.70	-7.167	-0.0028	-2.5 to 2.5	Pass
					4.00	-2.918	-0.0011	-2.5 to 2.5	Pass
				-30	3.70	-4.106	-0.0016	-2.5 to 2.5	Pass
				-20	3.70	-6.051	-0.0023	-2.5 to 2.5	Pass
				-10	3.70	-5.379	-0.0021	-2.5 to 2.5	Pass
				0	3.70	-8.383	-0.0032	-2.5 to 2.5	Pass
				10	3.70	-2.875	-0.0011	-2.5 to 2.5	Pass
				30	3.70	-5.736	-0.0022	-2.5 to 2.5	Pass
				40	3.70	-2.460	-0.0010	-2.5 to 2.5	Pass
				50	3.70	-6.180	-0.0024	-2.5 to 2.5	Pass
	2595	100	0	20	3.30	-0.687	-0.0003	-2.5 to 2.5	Pass
					3.70	-1.516	-0.0006	-2.5 to 2.5	Pass
					4.00	-5.765	-0.0022	-2.5 to 2.5	Pass
				-30	3.70	-4.921	-0.0019	-2.5 to 2.5	Pass
				-20	3.70	-5.379	-0.0021	-2.5 to 2.5	Pass
				-10	3.70	-3.047	-0.0012	-2.5 to 2.5	Pass
				0	3.70	-5.035	-0.0019	-2.5 to 2.5	Pass
				10	3.70	-5.565	-0.0021	-2.5 to 2.5	Pass
				30	3.70	-1.044	-0.0004	-2.5 to 2.5	Pass
				40	3.70	-1.130	-0.0004	-2.5 to 2.5	Pass
				50	3.70	-1.388	-0.0005	-2.5 to 2.5	Pass
	2610	100	0	20	3.30	-10.099	-0.0039	-2.5 to 2.5	Pass
					3.70	-9.584	-0.0037	-2.5 to 2.5	Pass
					4.00	-6.480	-0.0025	-2.5 to 2.5	Pass
				-30	3.70	-6.723	-0.0026	-2.5 to 2.5	Pass
				-20	3.70	-10.099	-0.0039	-2.5 to 2.5	Pass
				-10	3.70	-5.865	-0.0022	-2.5 to 2.5	Pass
				0	3.70	-13.905	-0.0053	-2.5 to 2.5	Pass
				10	3.70	-9.570	-0.0037	-2.5 to 2.5	Pass

				30	3.70	-9.871	-0.0038	-2.5 to 2.5	Pass
				40	3.70	-12.503	-0.0048	-2.5 to 2.5	Pass
				50	3.70	-8.283	-0.0032	-2.5 to 2.5	Pass

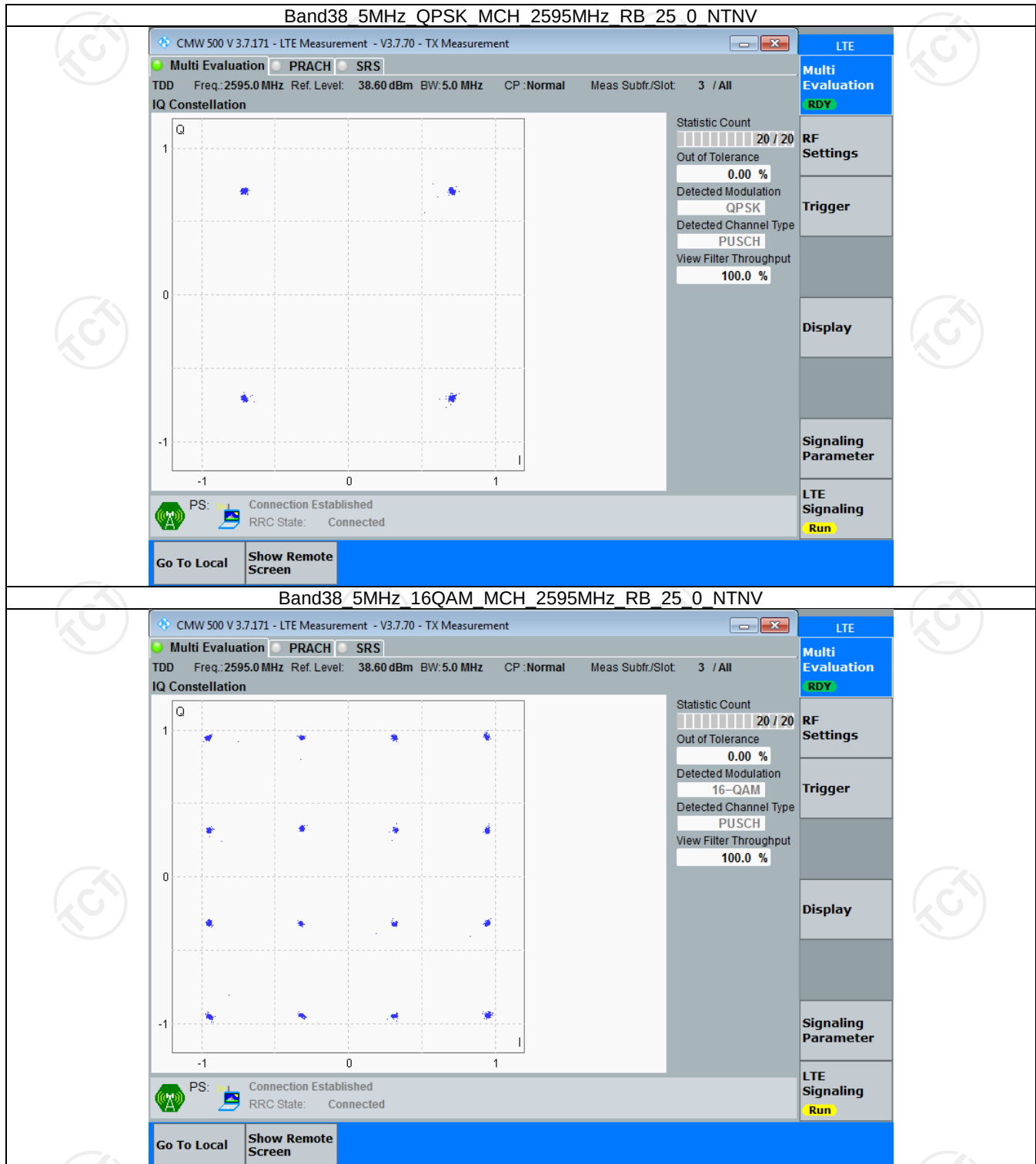
3. Modulation Characteristics

3.1 B38_5MHz

3.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTN						
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 Test Graph

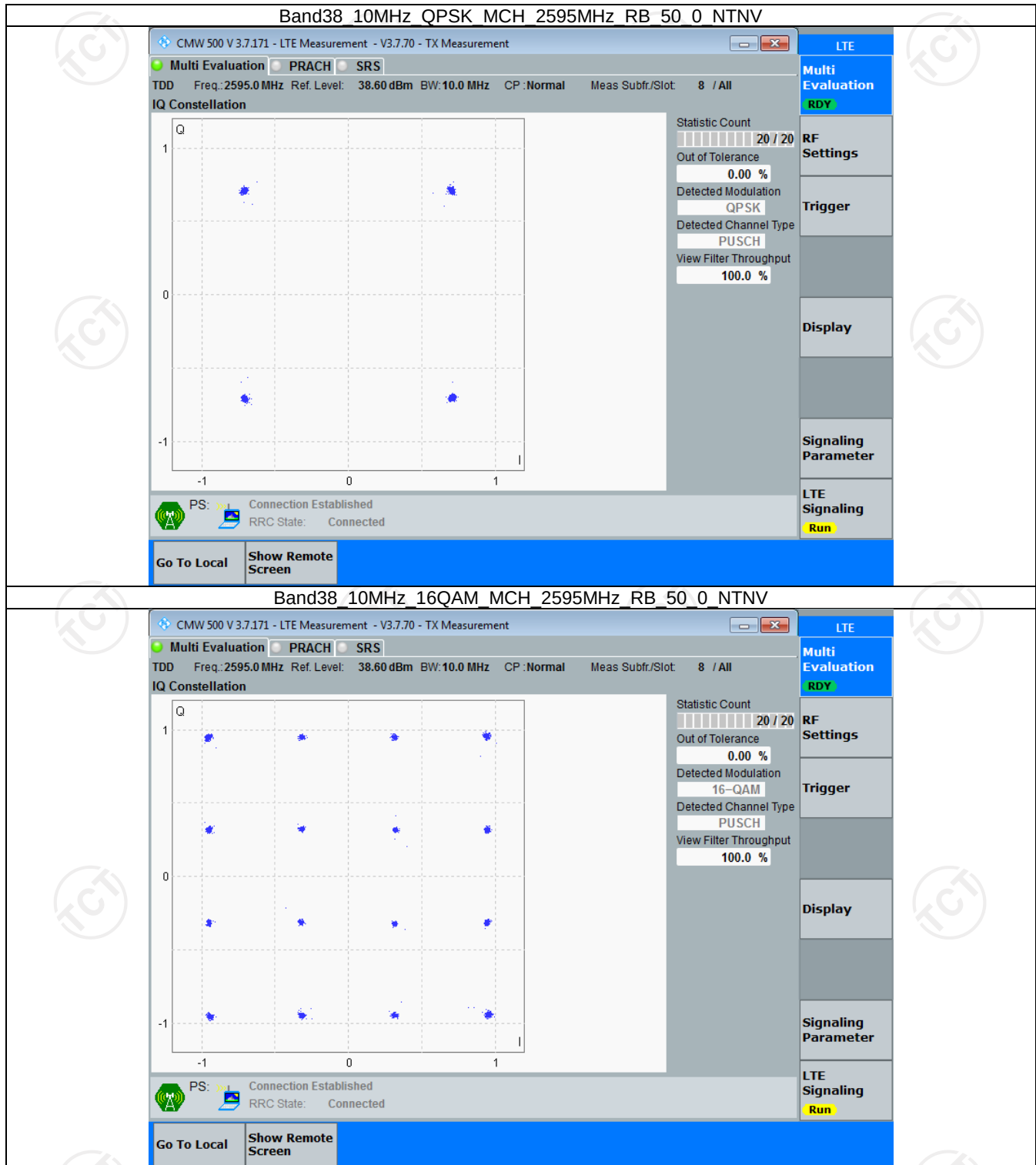


3.2 B38_10MHz

3.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTN						
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

3.2.2 Test Graph

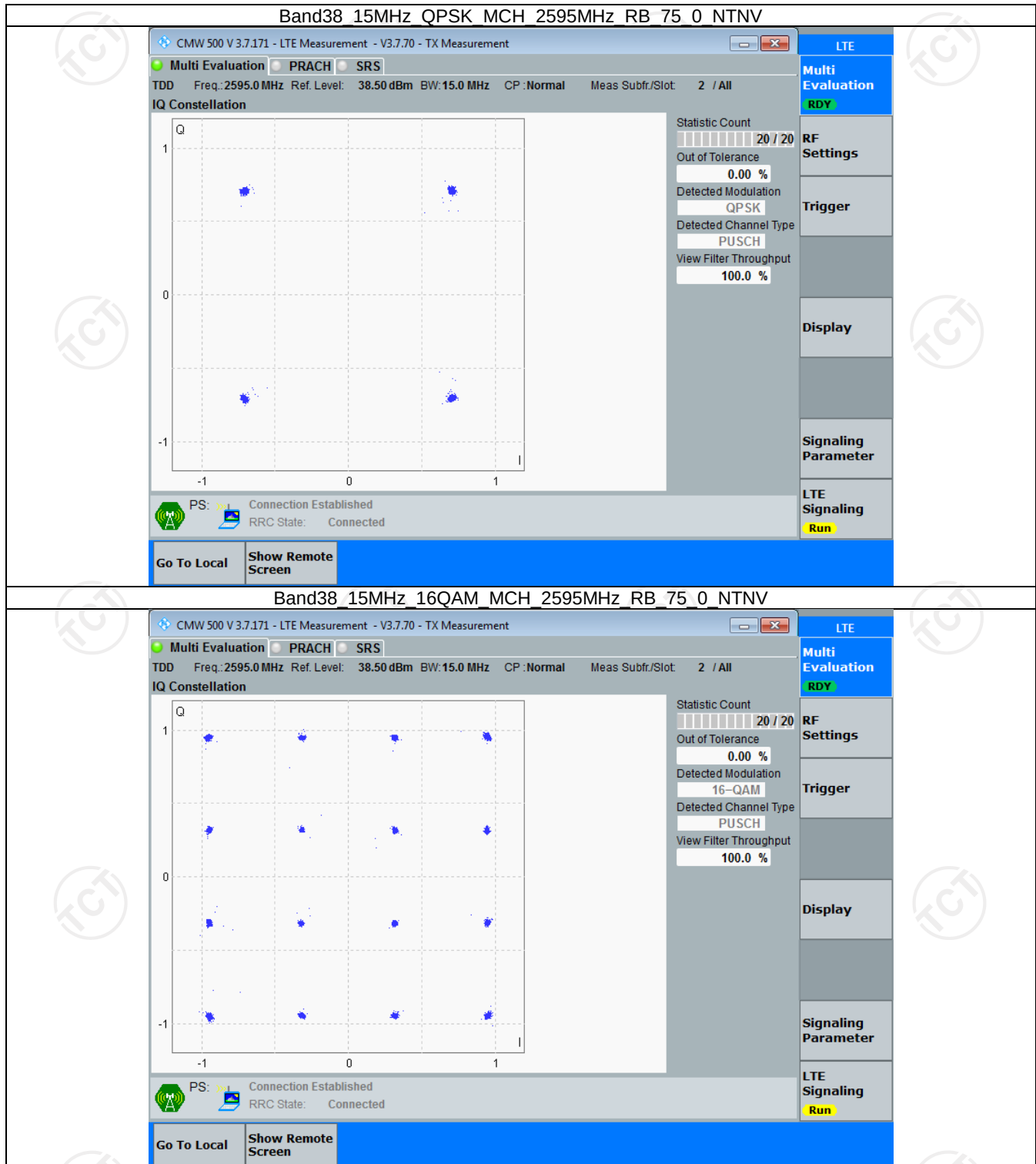


3.3 B38_15MHz

3.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTN						
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

3.3.2 Test Graph

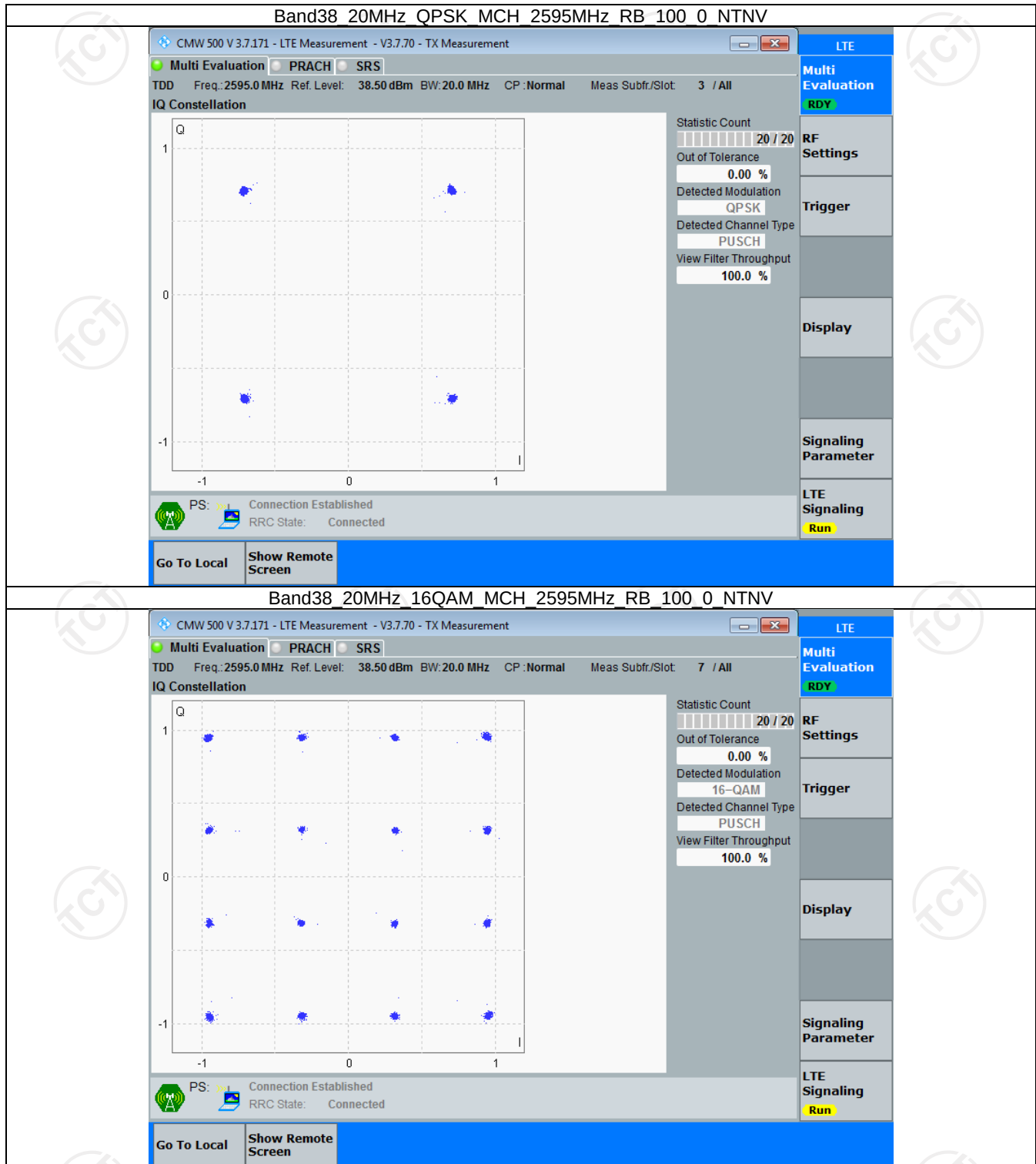


3.4 B38_20MHz

3.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTN						
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

3.4.2 Test Graph



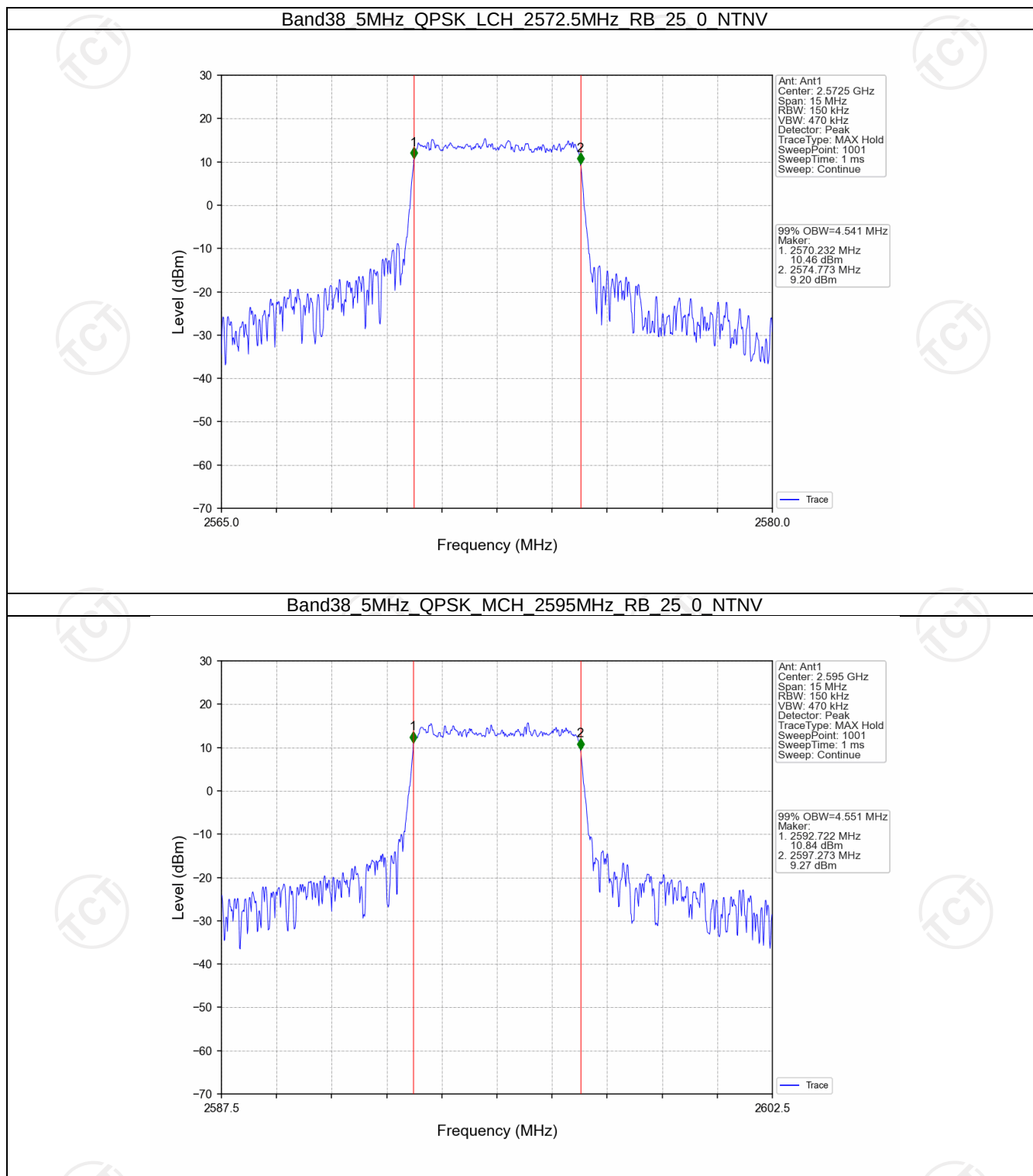
4. 99% & 26dB Bandwidth

4.1 Band38_OBW

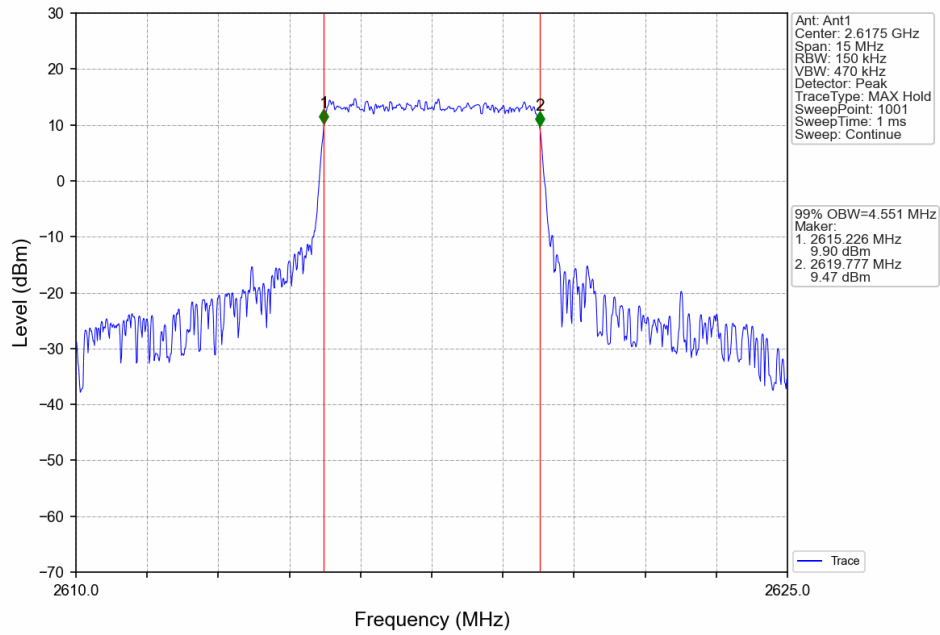
4.1.1 Test Result

Band: 38 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2572.5	25	0	4.541	Pass
		2595	25	0	4.551	Pass
		2617.5	25	0	4.551	Pass
	16QAM	2572.5	25	0	4.535	Pass
		2595	25	0	4.539	Pass
		2617.5	25	0	4.575	Pass
10	QPSK	2575	50	0	9.079	Pass
		2595	50	0	9.066	Pass
		2615	50	0	9.073	Pass
	16QAM	2575	50	0	9.069	Pass
		2595	50	0	9.057	Pass
		2615	50	0	9.062	Pass
15	QPSK	2577.5	75	0	13.600	Pass
		2595	75	0	13.571	Pass
		2612.5	75	0	13.548	Pass
	16QAM	2577.5	75	0	13.557	Pass
		2595	75	0	13.574	Pass
		2612.5	75	0	13.632	Pass
20	QPSK	2580	100	0	18.115	Pass
		2595	100	0	18.040	Pass
		2610	100	0	18.087	Pass
	16QAM	2580	100	0	18.020	Pass
		2595	100	0	18.122	Pass
		2610	100	0	18.121	Pass

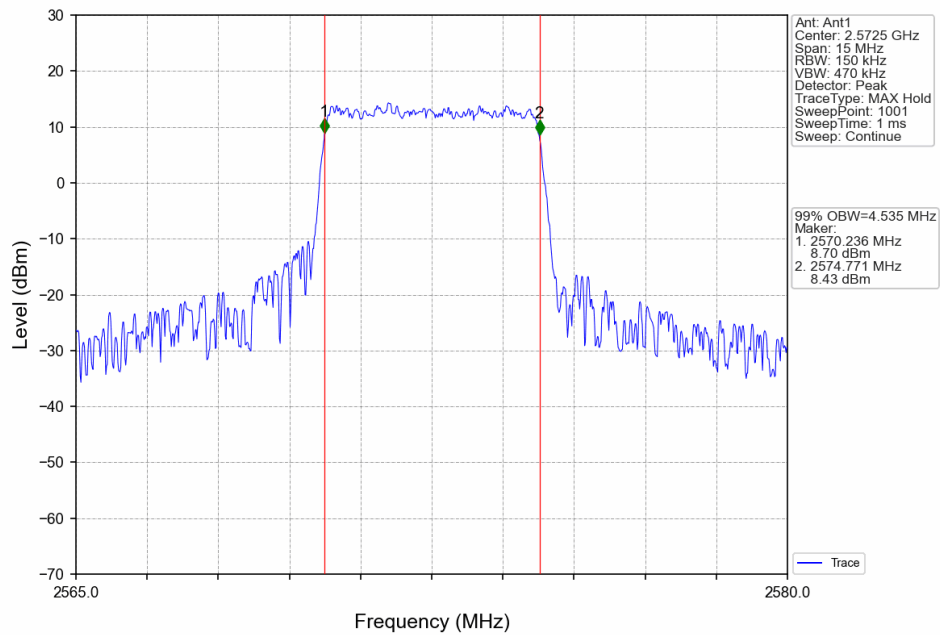
4.1.2 Test Graph



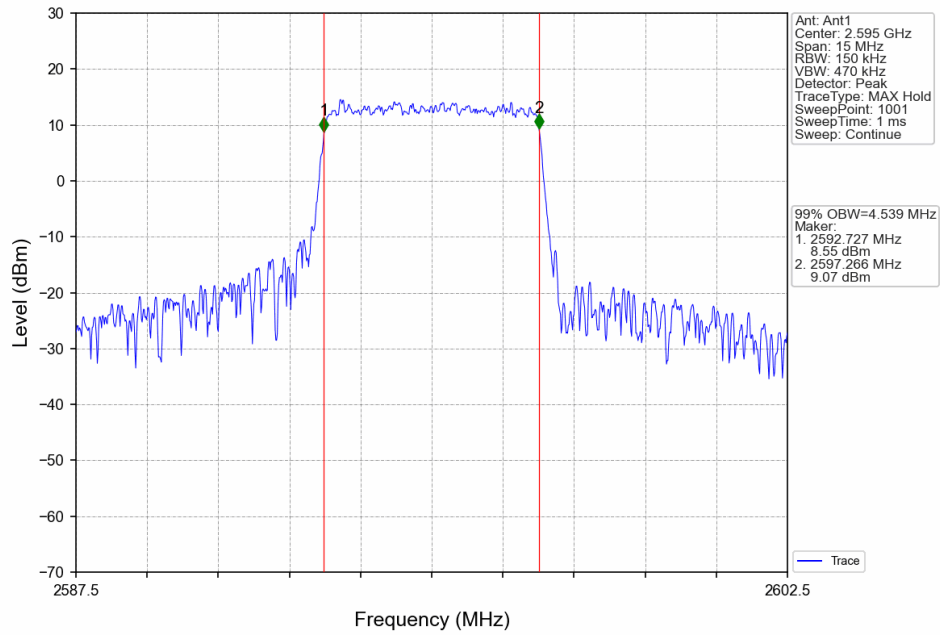
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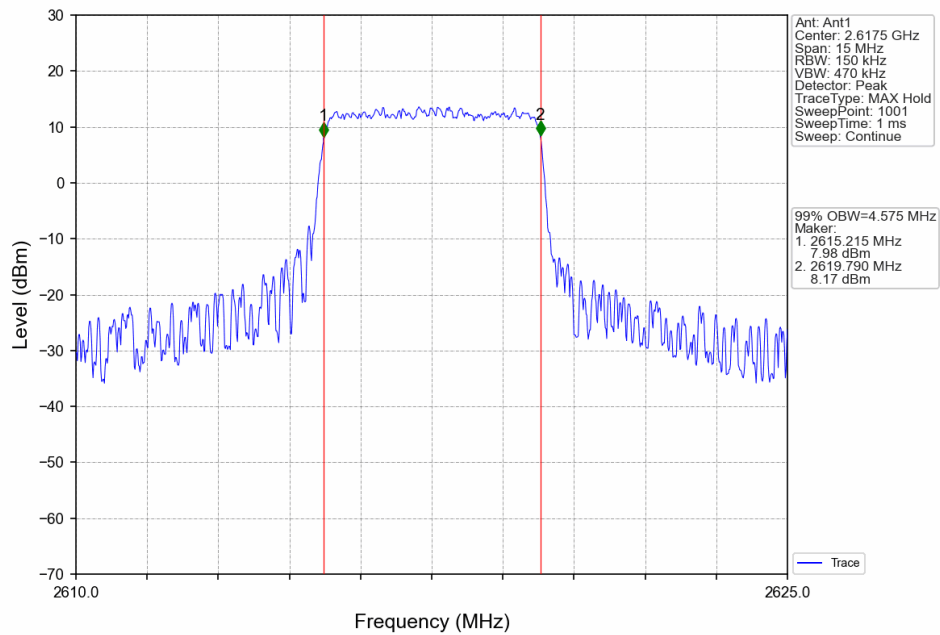
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



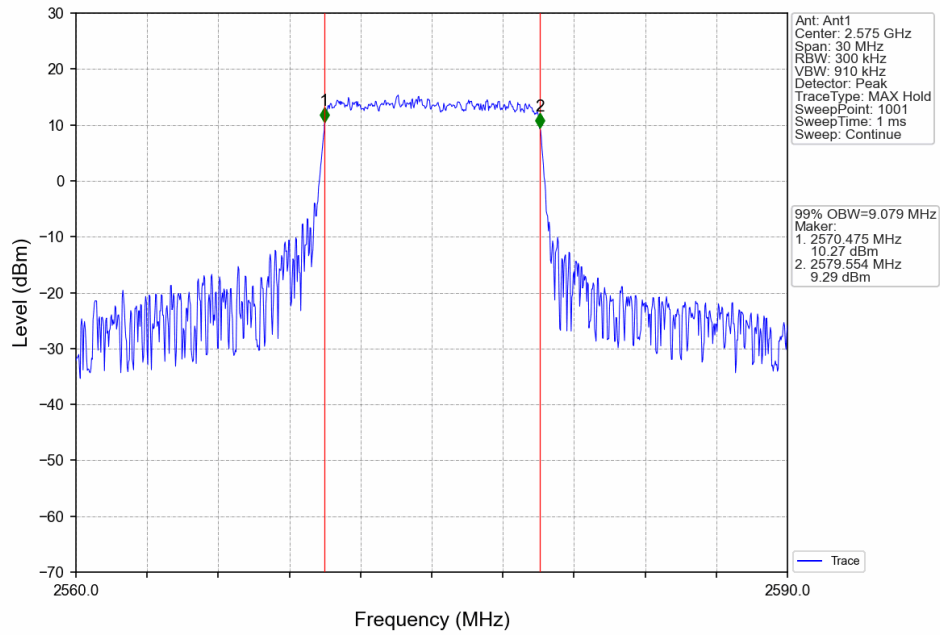
Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



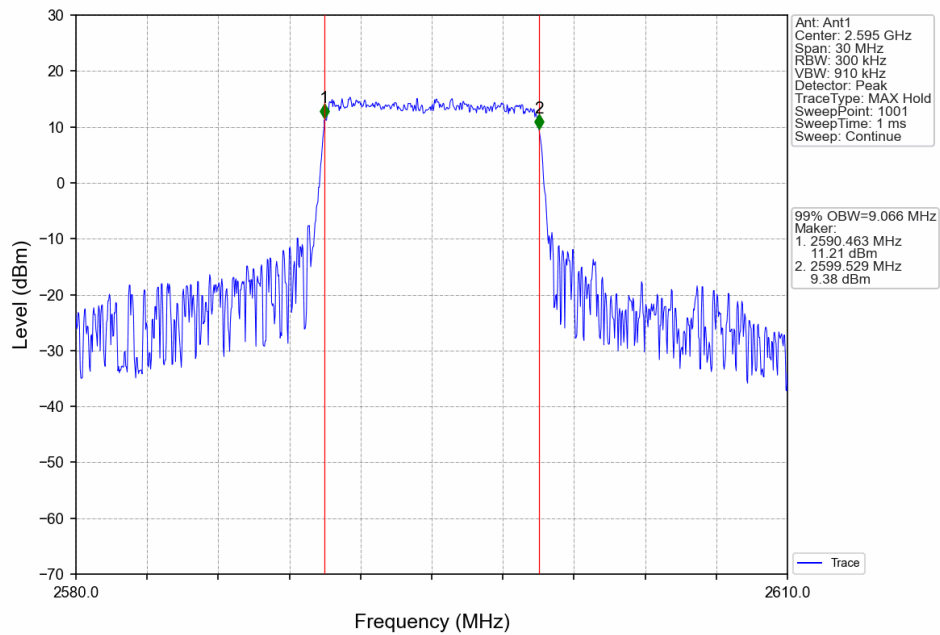
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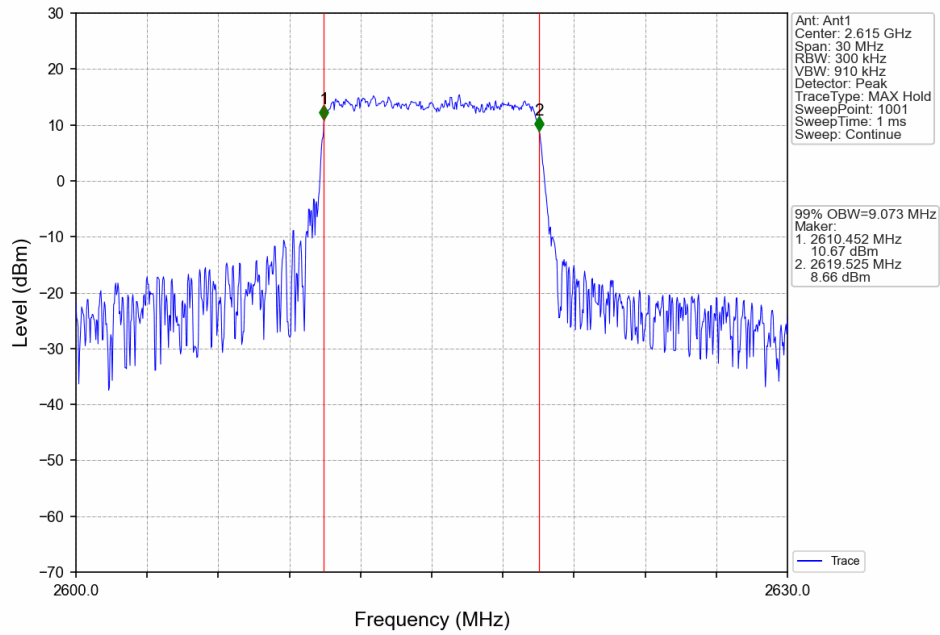
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



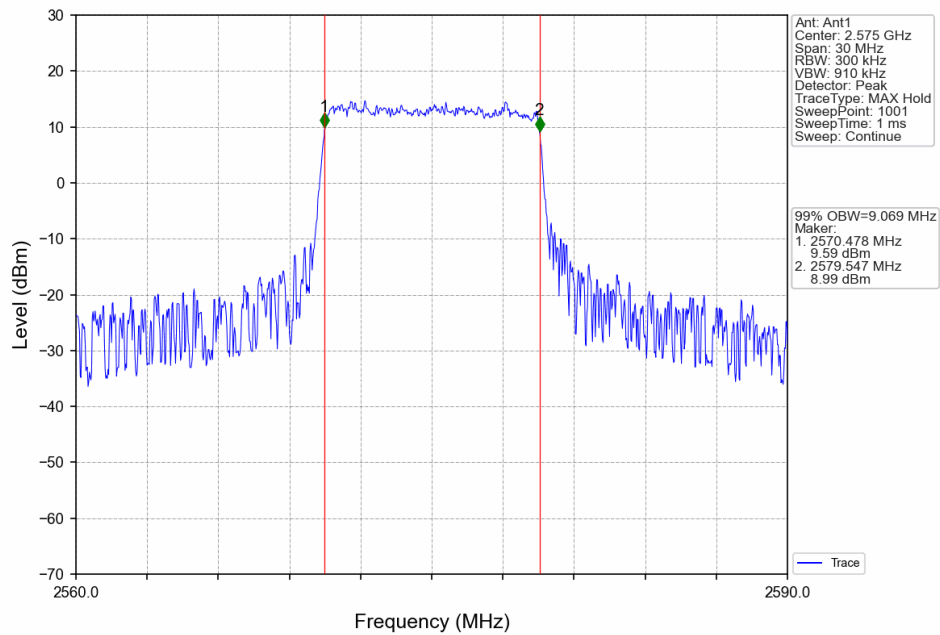
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



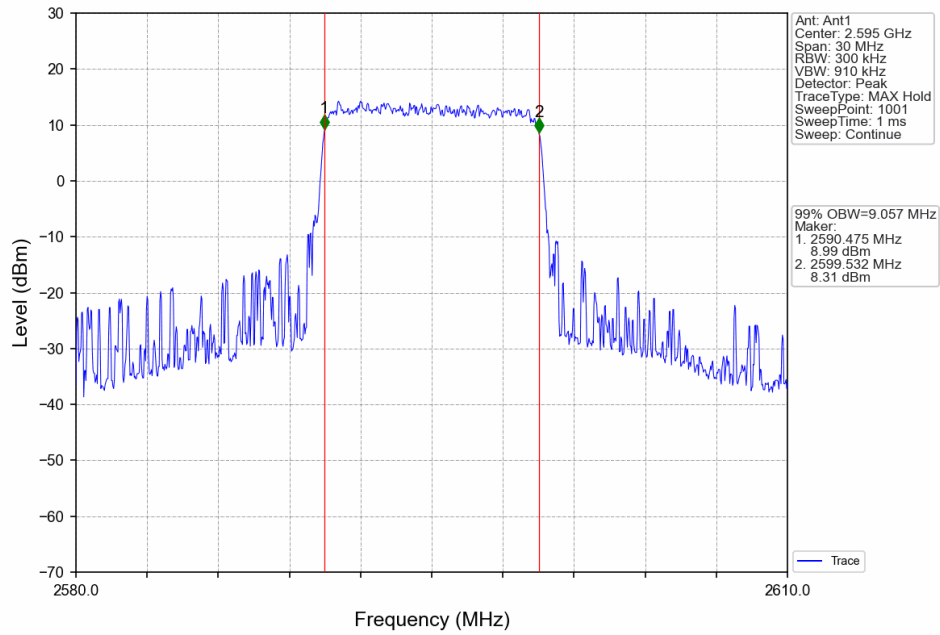
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



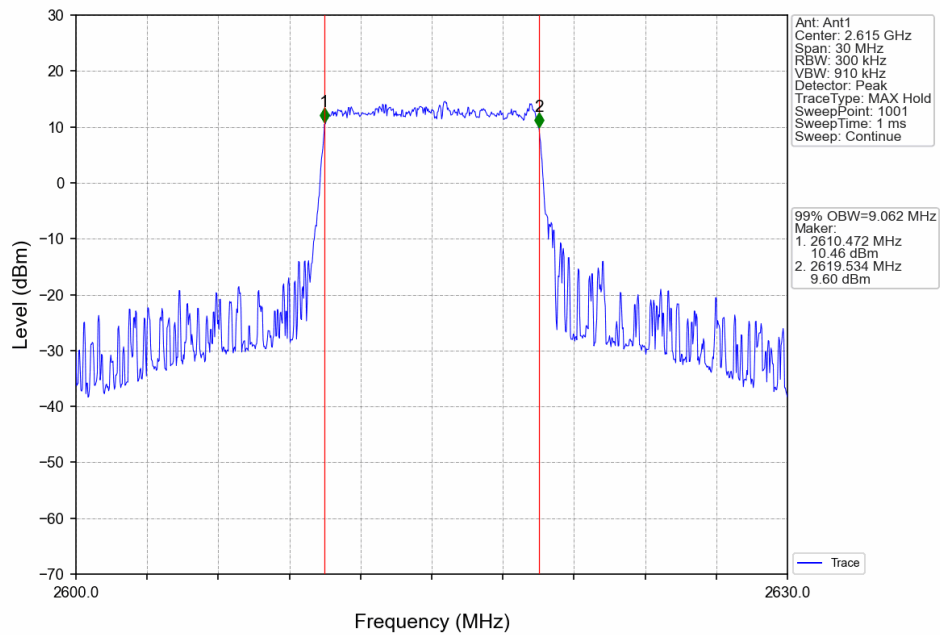
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



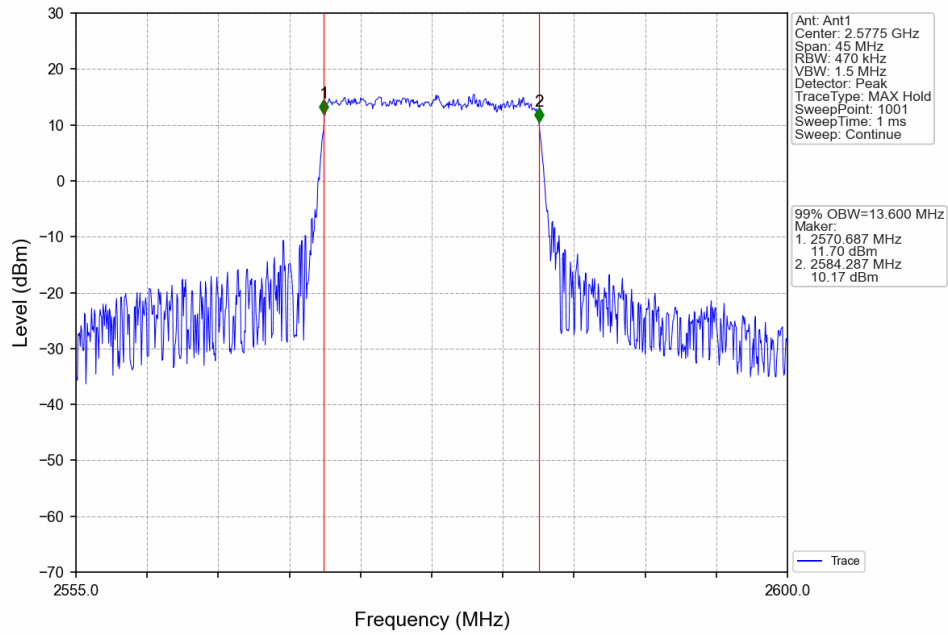
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



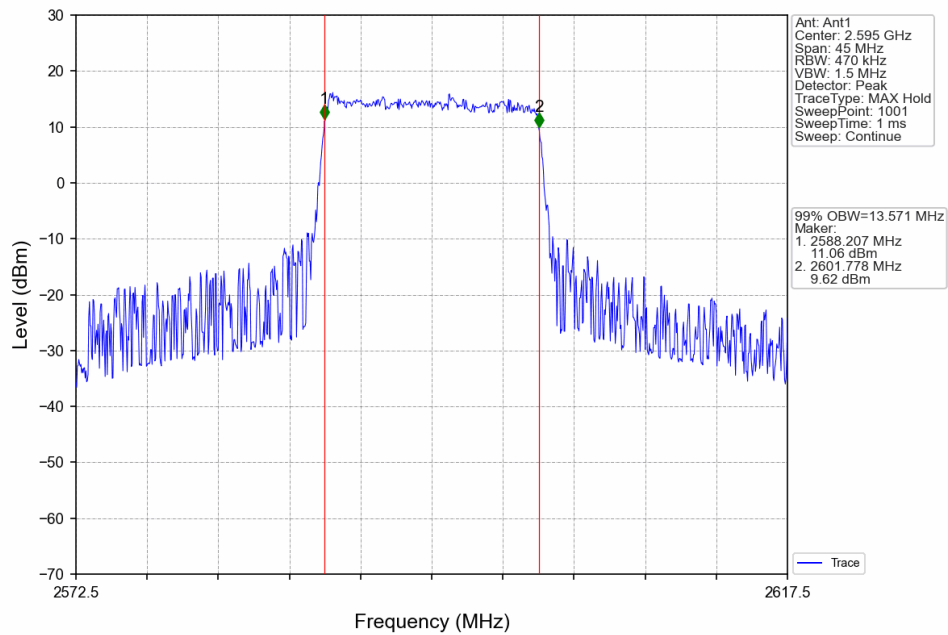
Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV



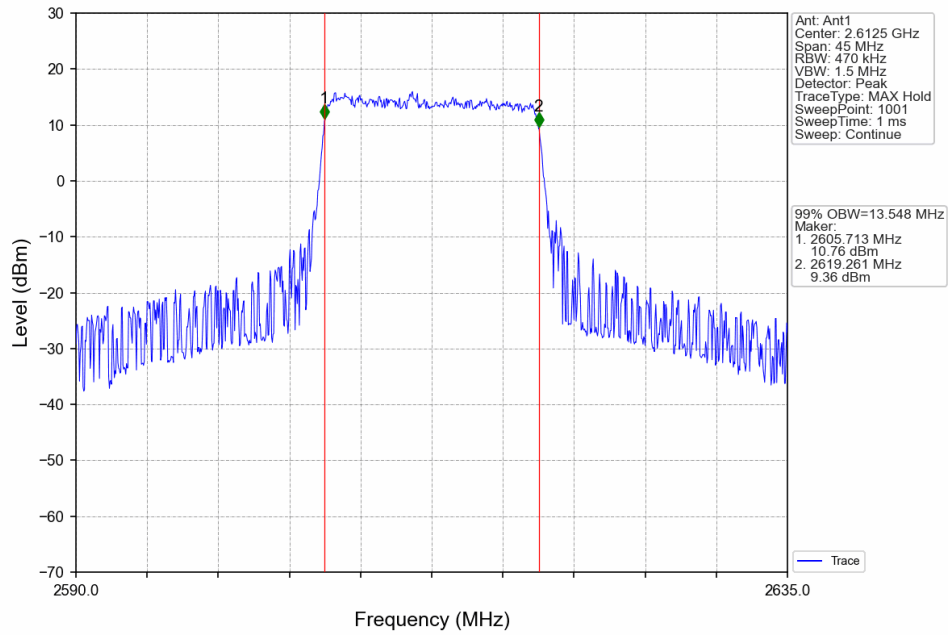
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



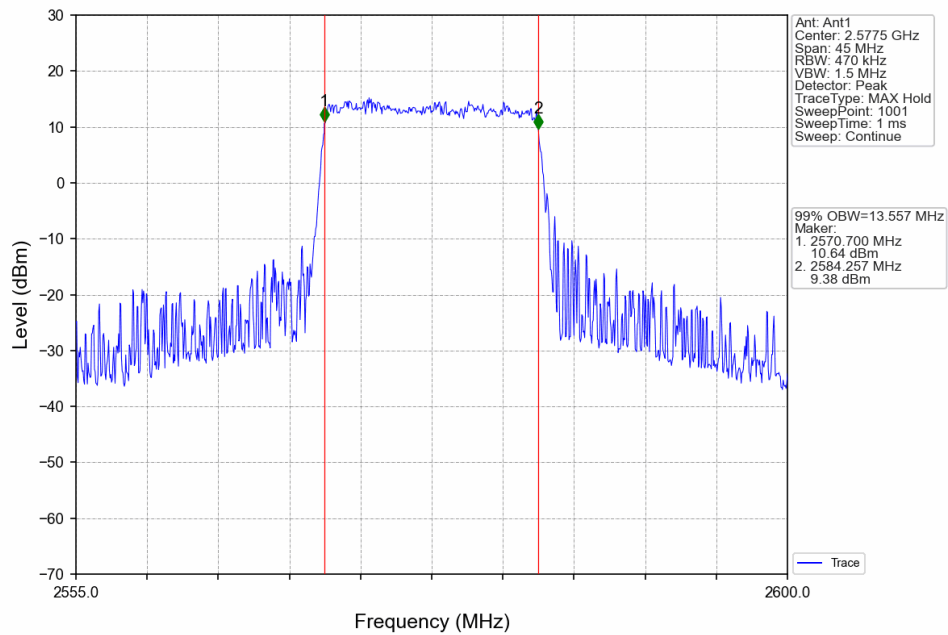
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



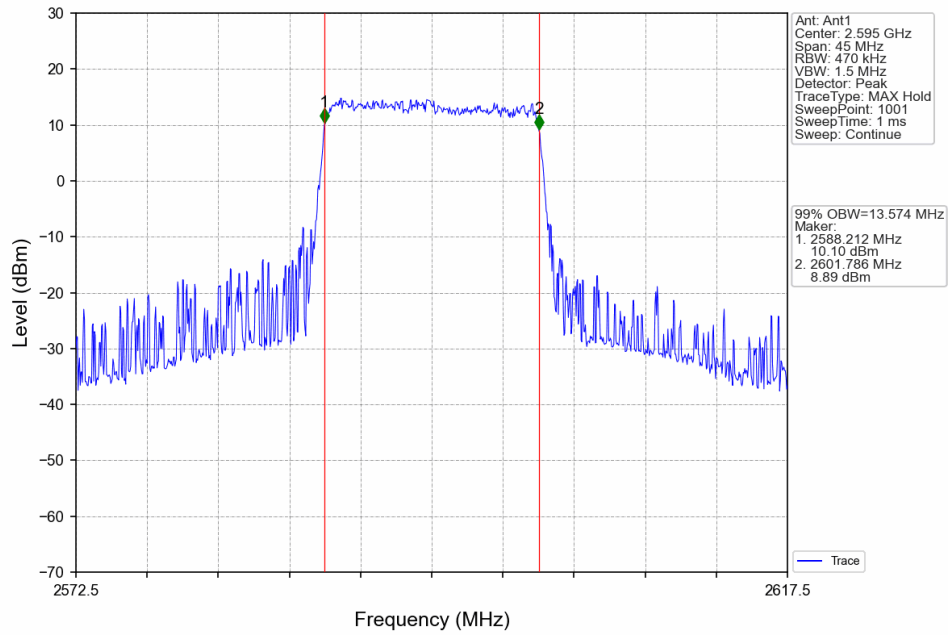
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



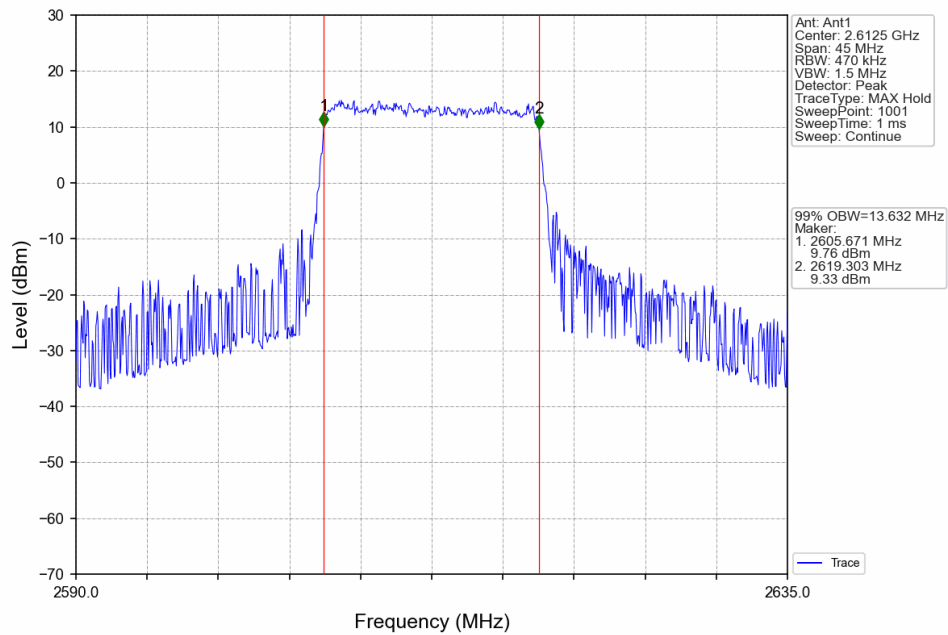
Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



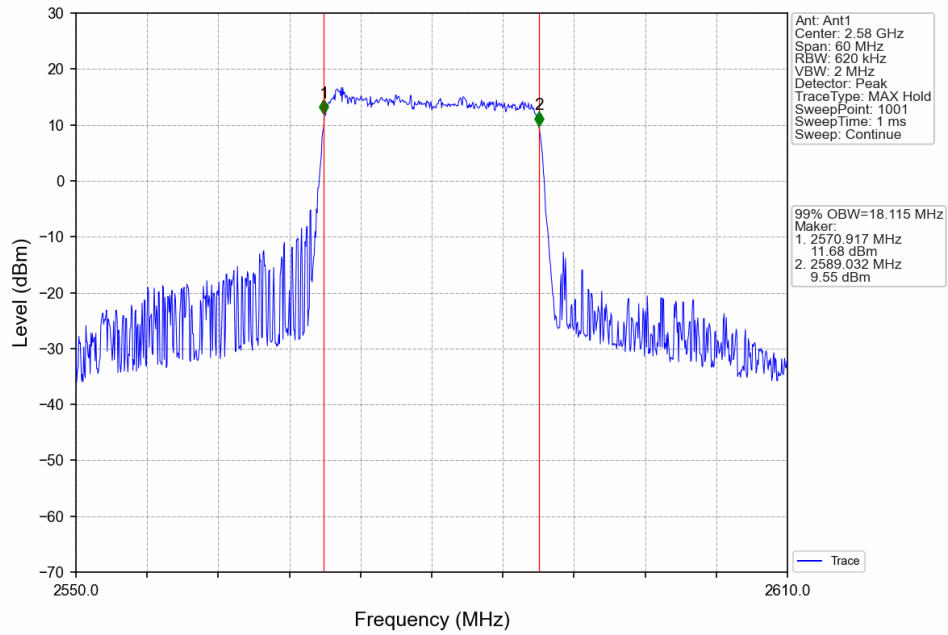
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



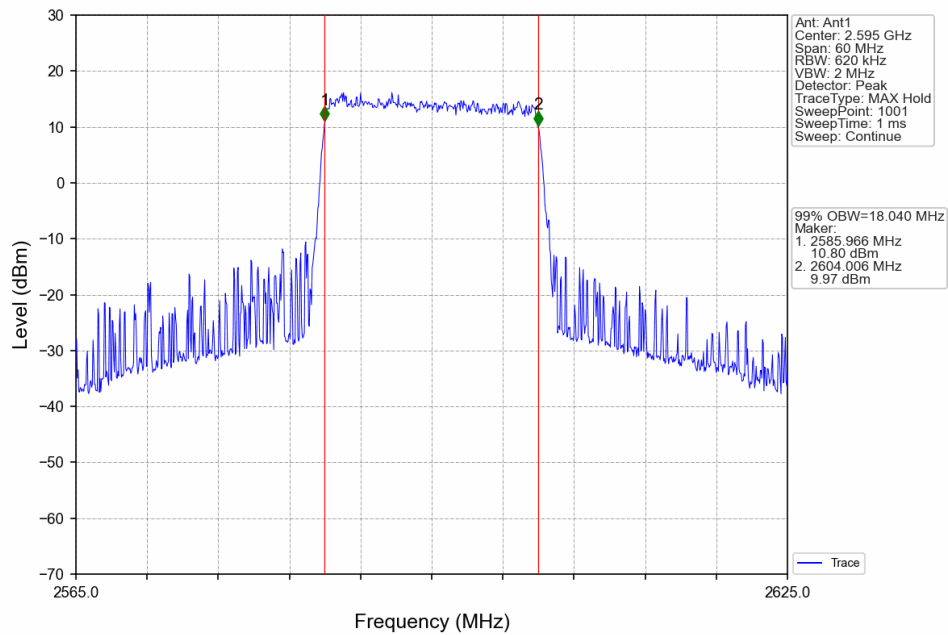
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



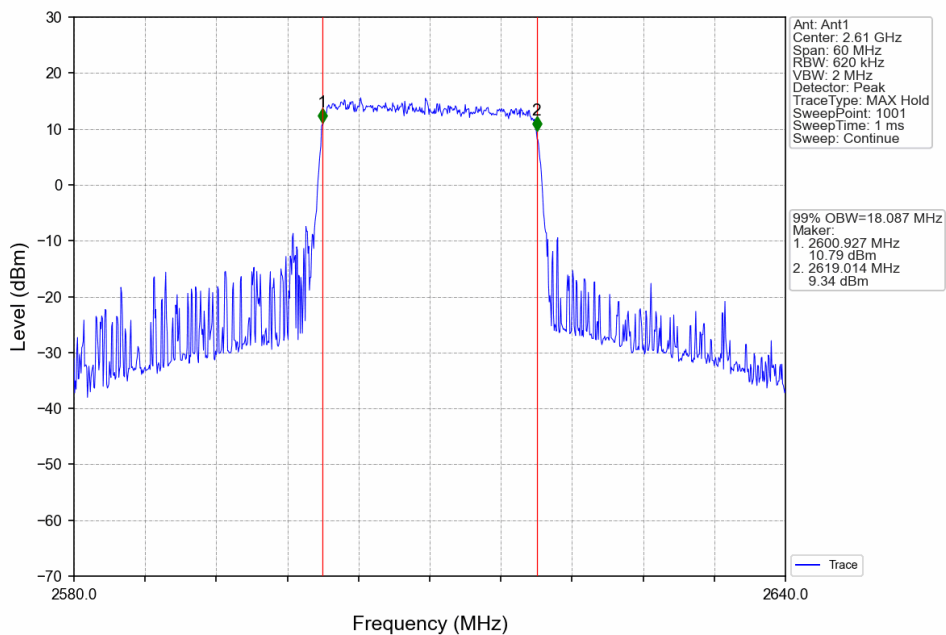
Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



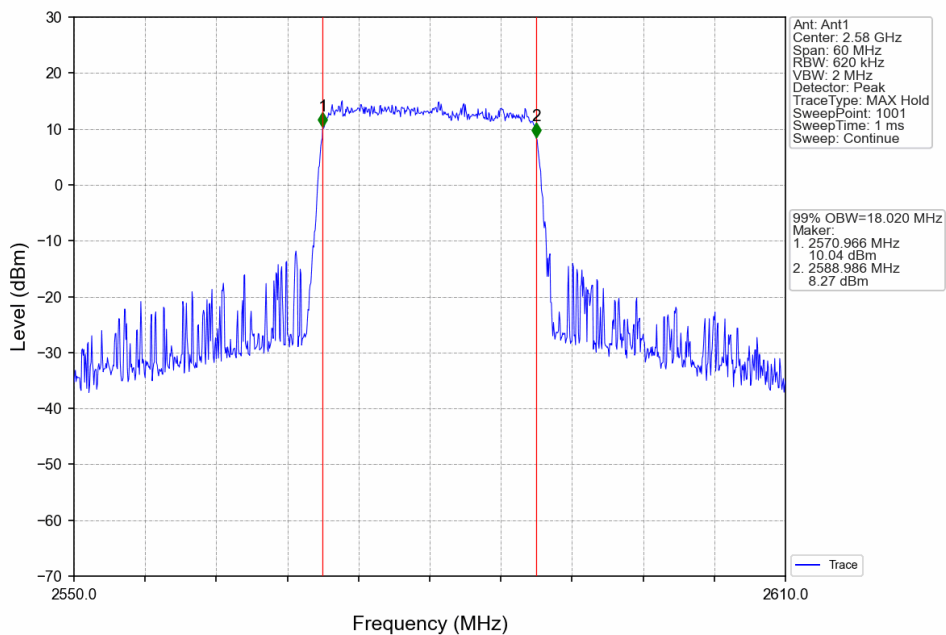
Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



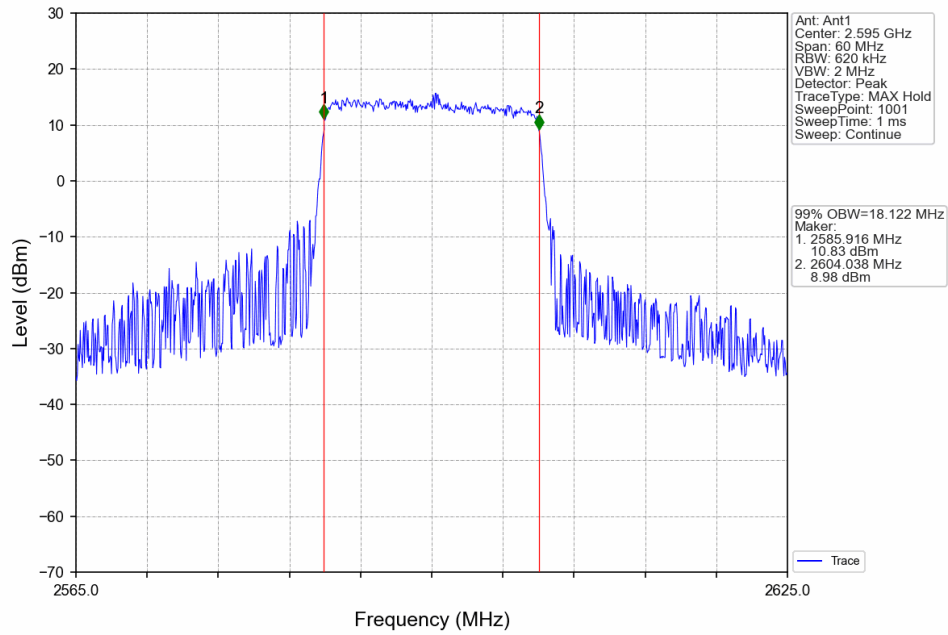
Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTN



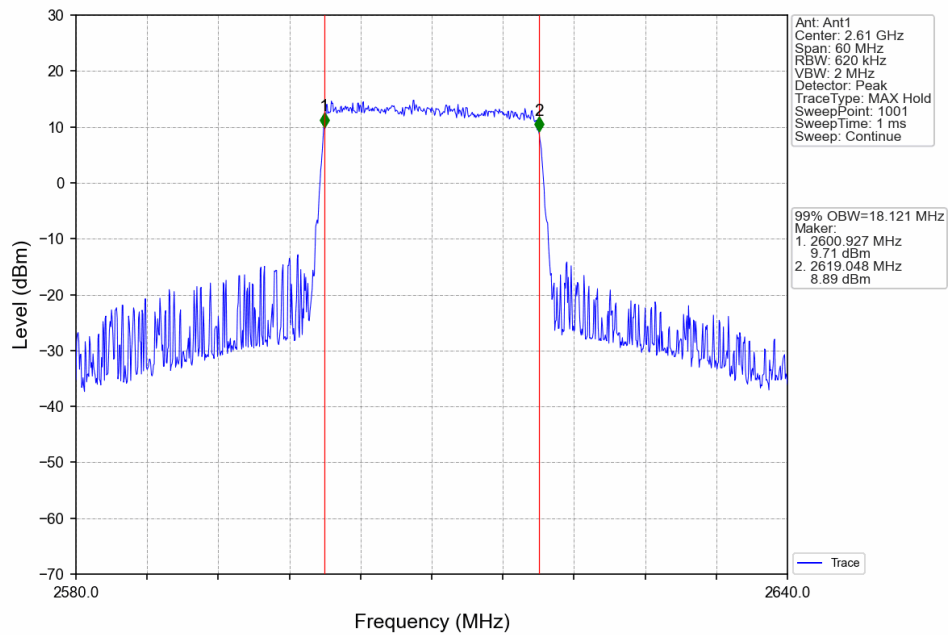
Band38 20MHz 16QAM LCH 2580MHz RB 100 0 NTN



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV

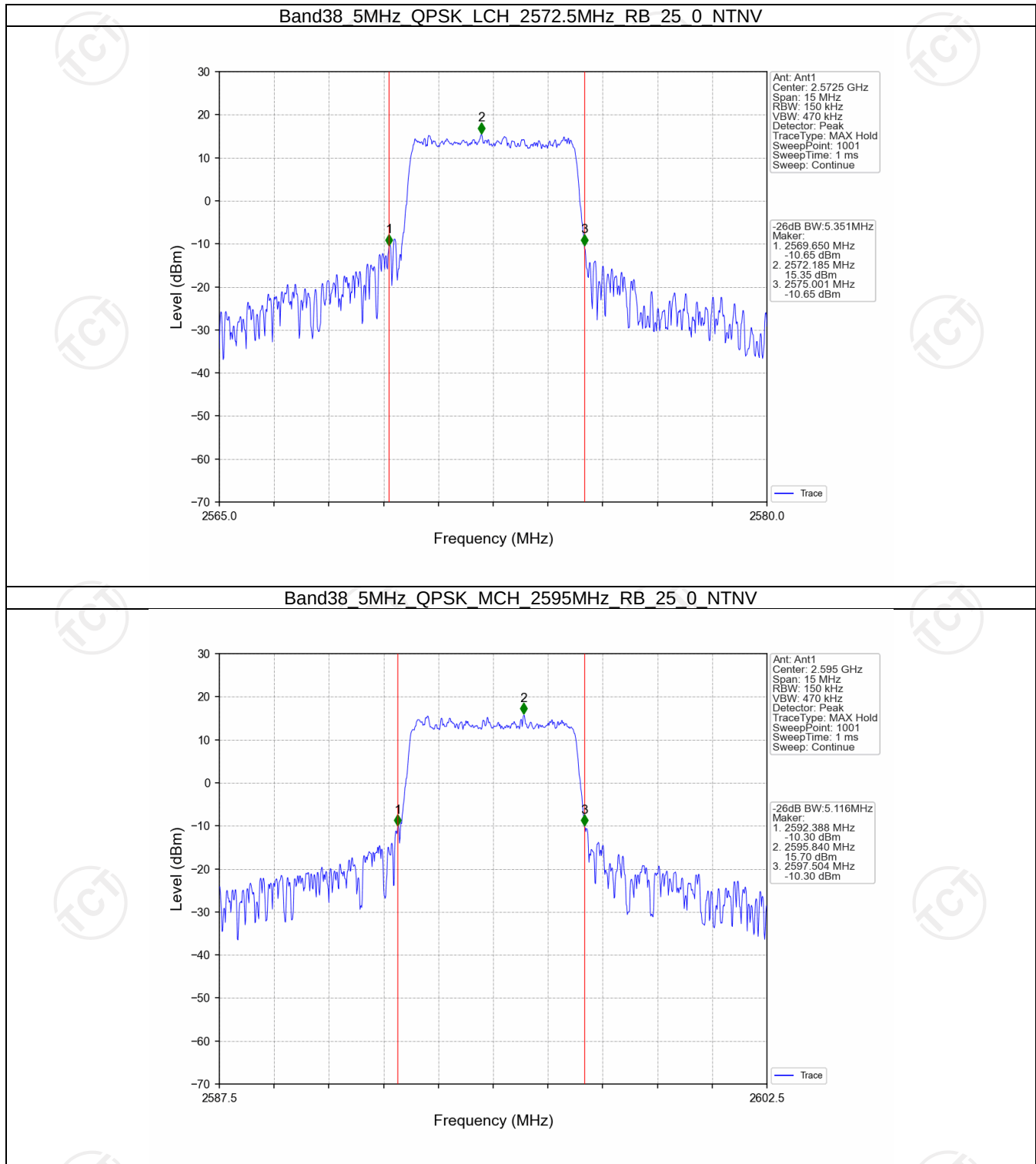


4.2 Band38_XDB

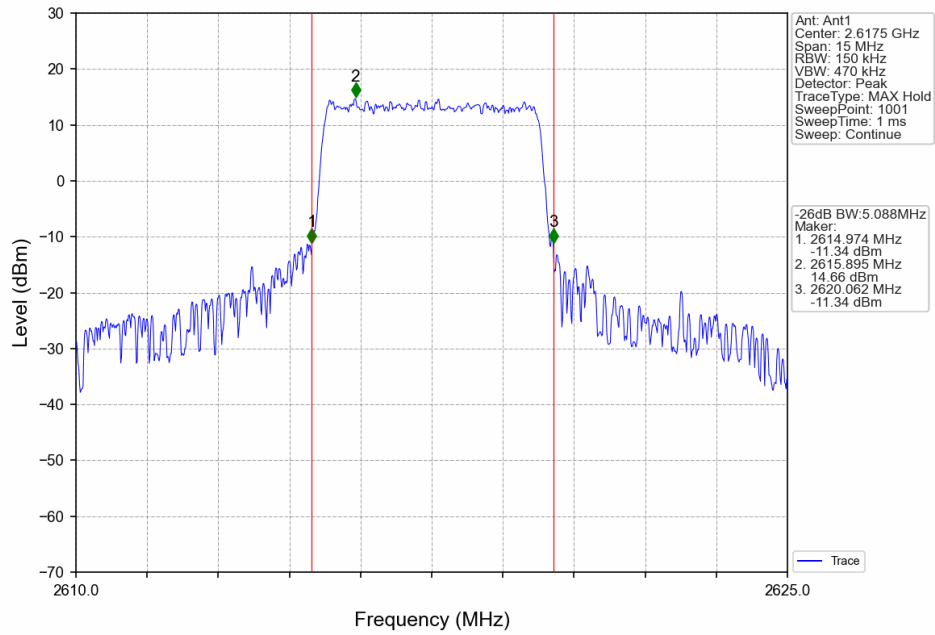
4.2.1 Test Result

Band: 38 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2572.5	25	0	5.351	Pass
		2595	25	0	5.116	Pass
		2617.5	25	0	5.088	Pass
	16QAM	2572.5	25	0	5.251	Pass
		2595	25	0	5.285	Pass
		2617.5	25	0	5.363	Pass
10	QPSK	2575	50	0	11.358	Pass
		2595	50	0	10.780	Pass
		2615	50	0	11.000	Pass
	16QAM	2575	50	0	10.815	Pass
		2595	50	0	10.561	Pass
		2615	50	0	10.458	Pass
15	QPSK	2577.5	75	0	16.085	Pass
		2595	75	0	15.543	Pass
		2612.5	75	0	15.999	Pass
	16QAM	2577.5	75	0	16.337	Pass
		2595	75	0	15.779	Pass
		2612.5	75	0	18.190	Pass
20	QPSK	2580	100	0	20.802	Pass
		2595	100	0	19.726	Pass
		2610	100	0	22.408	Pass
	16QAM	2580	100	0	19.677	Pass
		2595	100	0	22.369	Pass
		2610	100	0	19.693	Pass

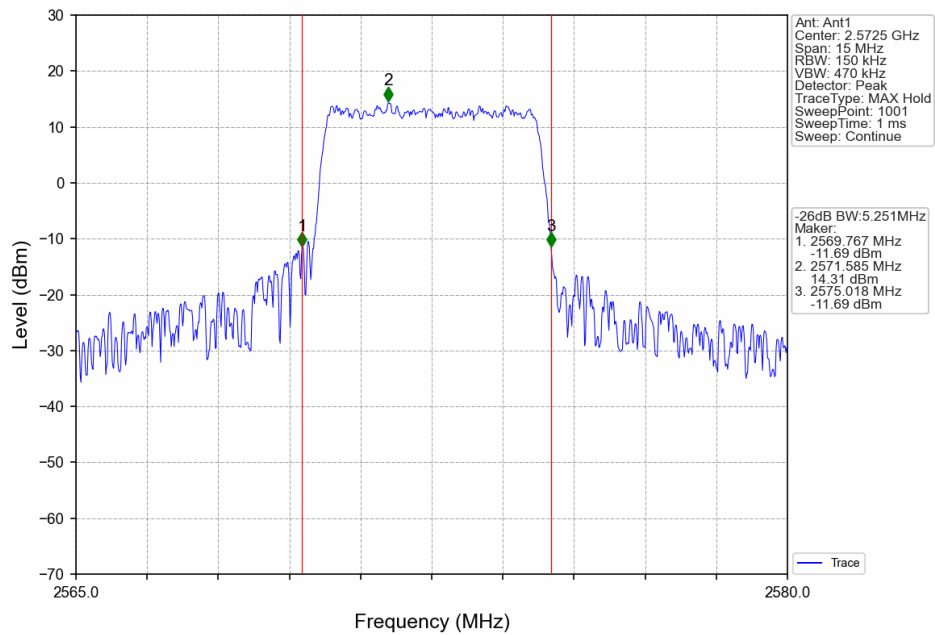
4.2.2 Test Graph



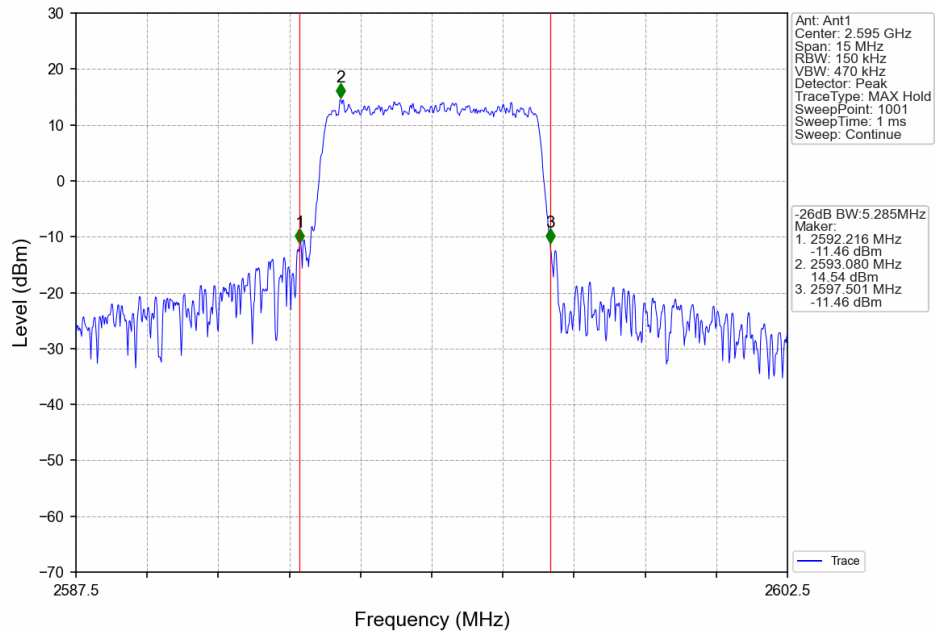
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



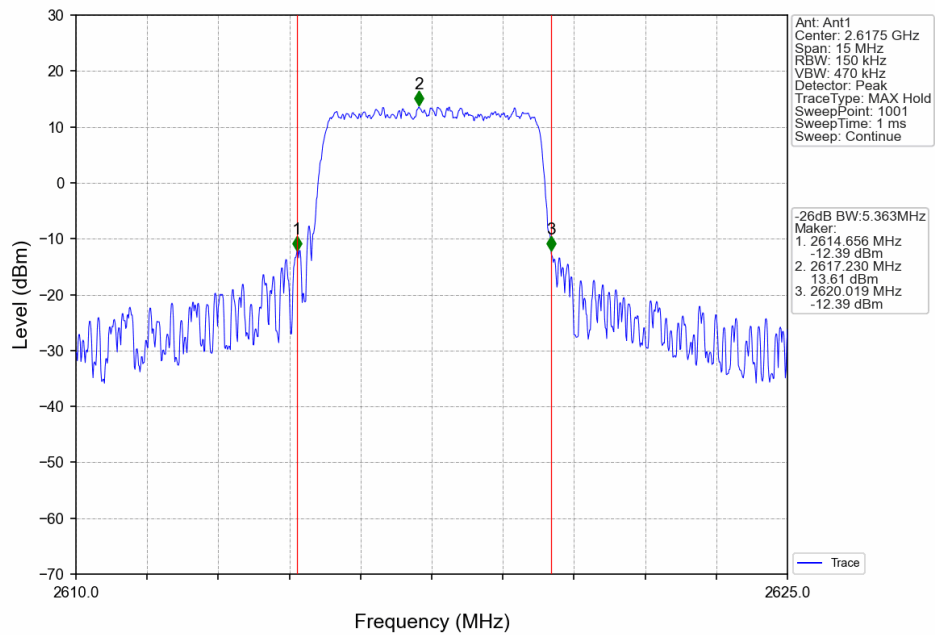
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



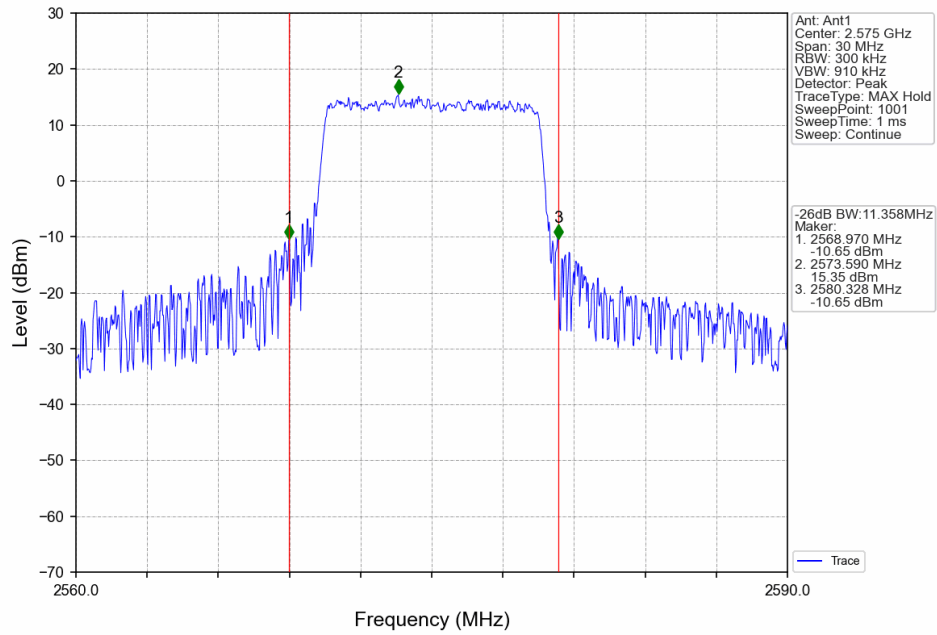
Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



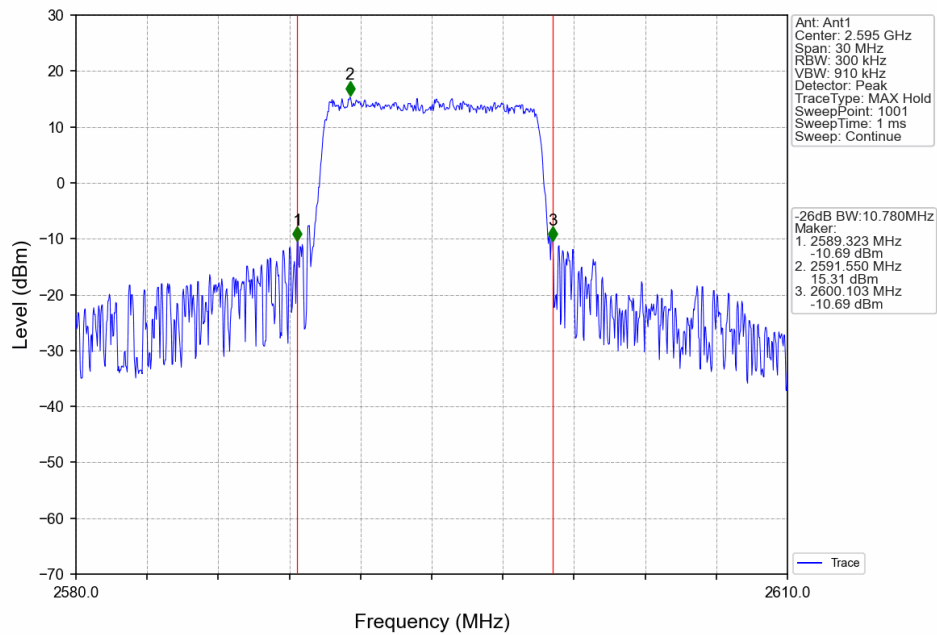
Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



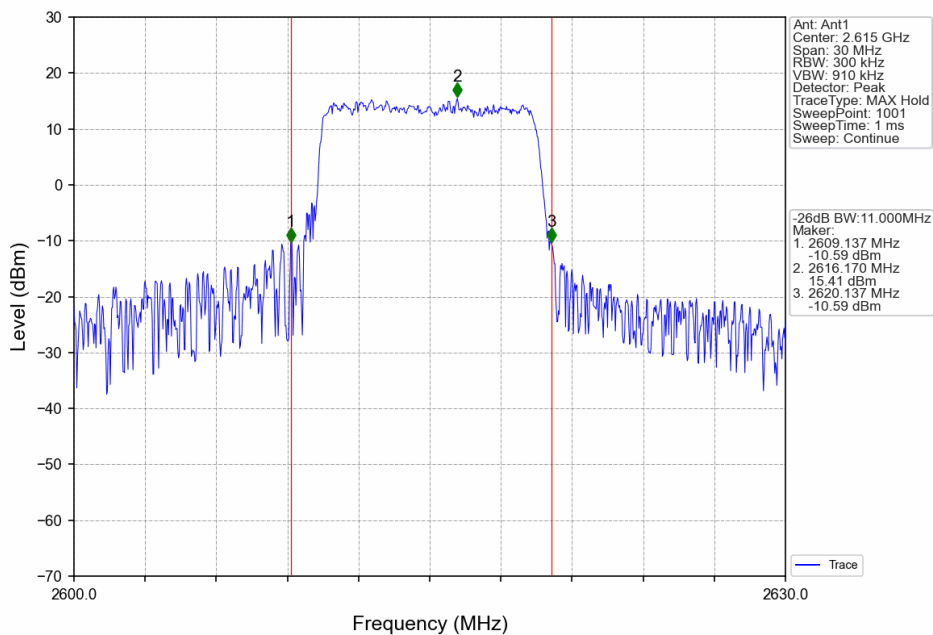
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



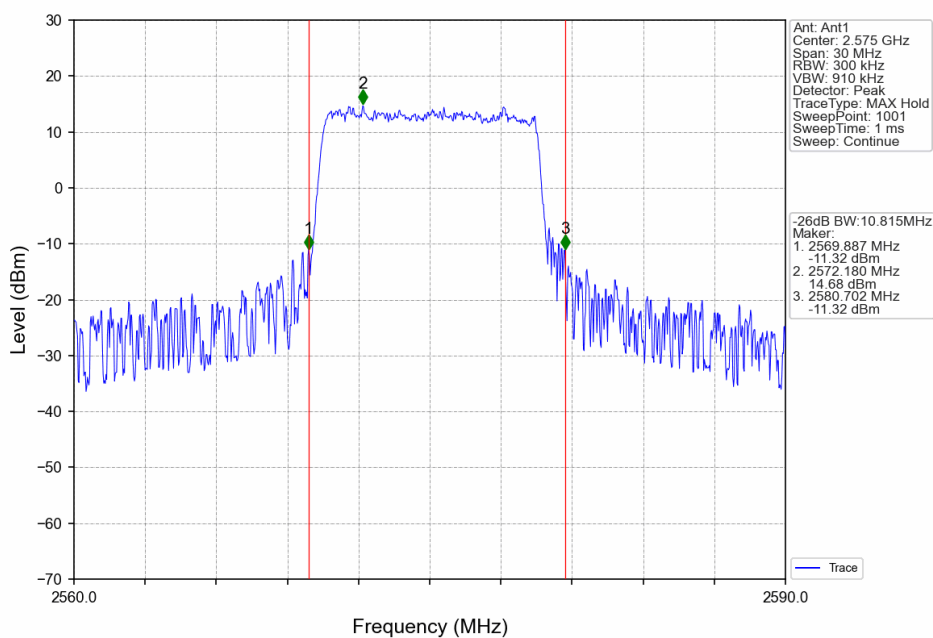
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



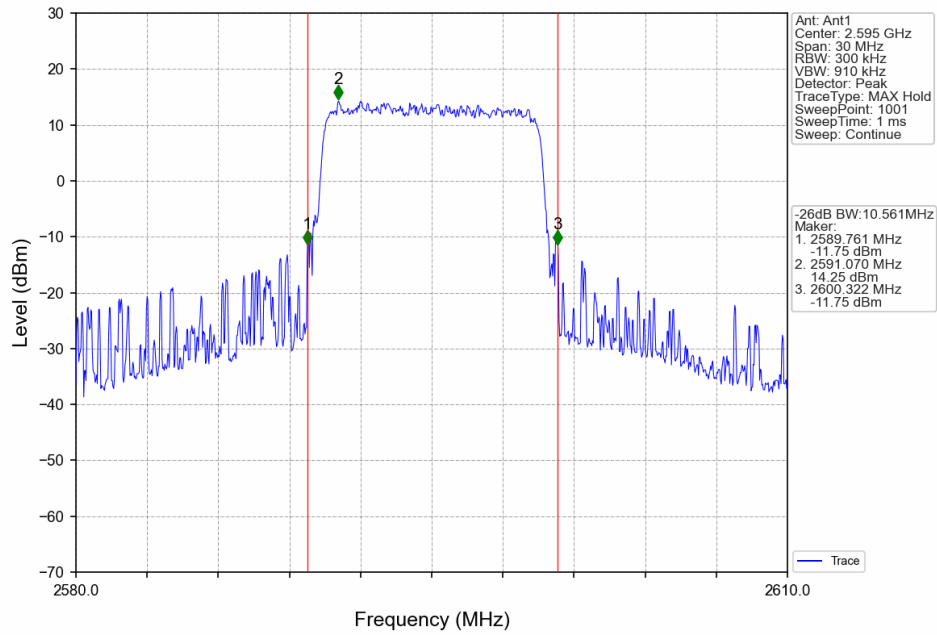
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



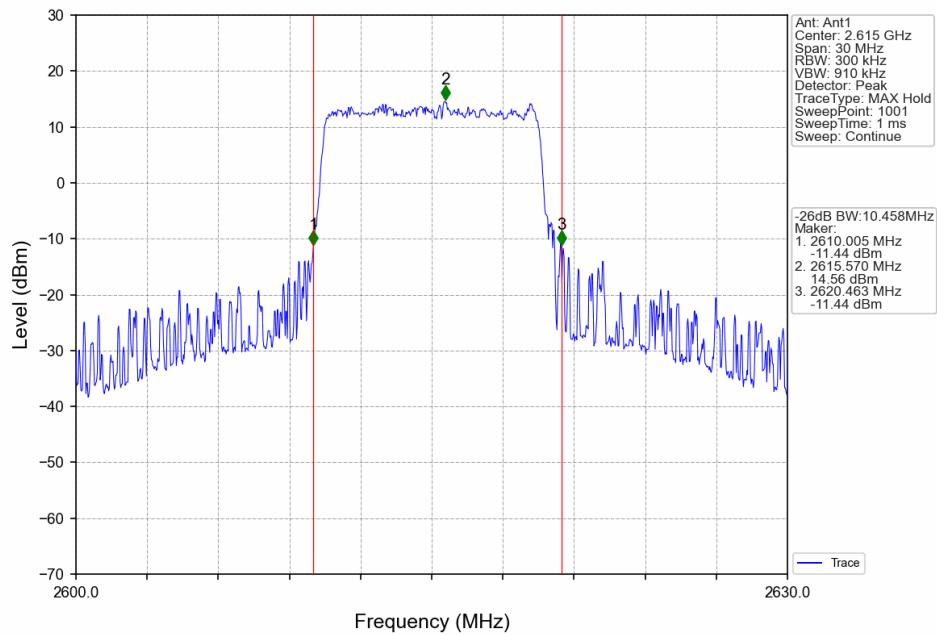
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



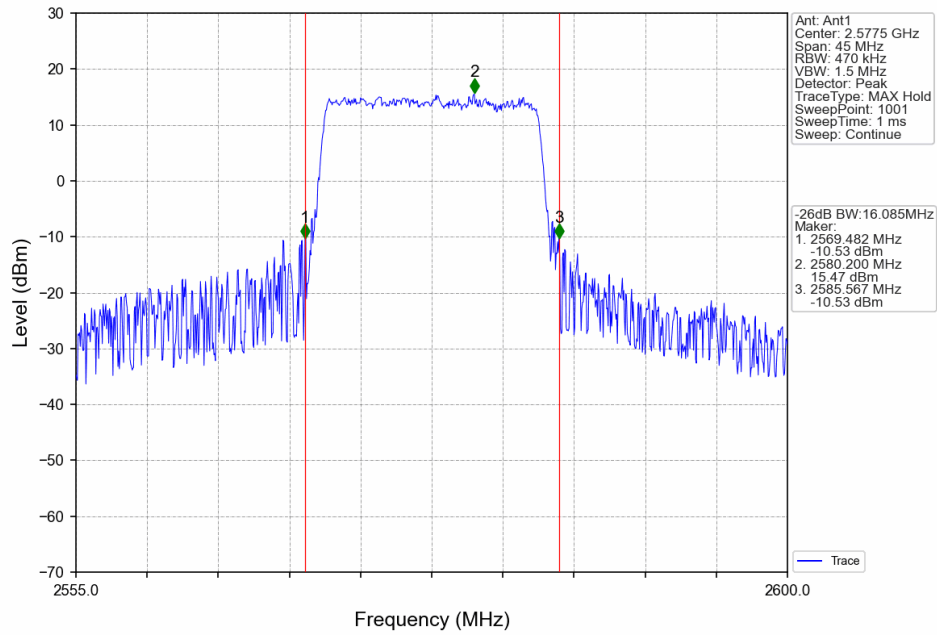
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



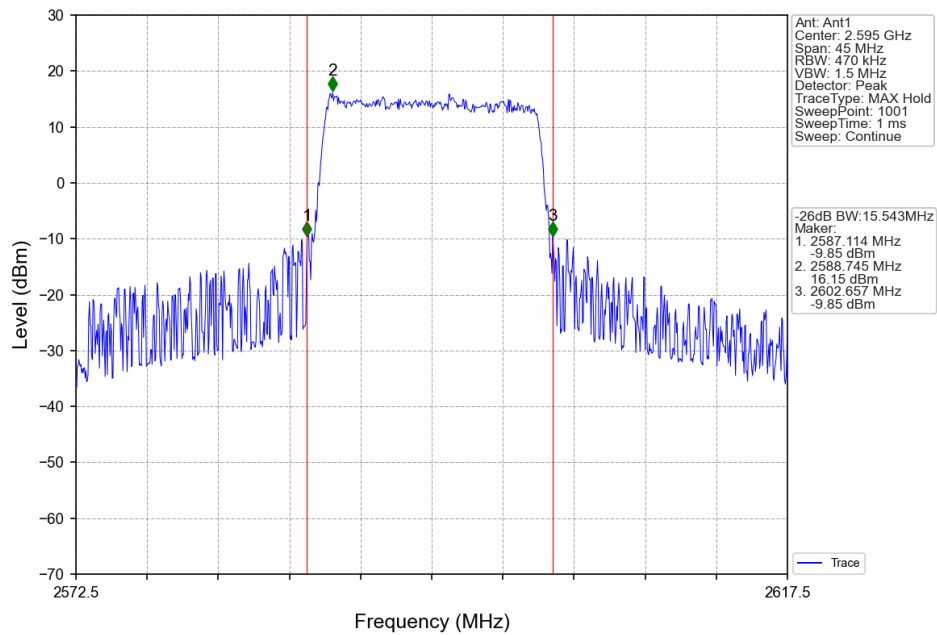
Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV



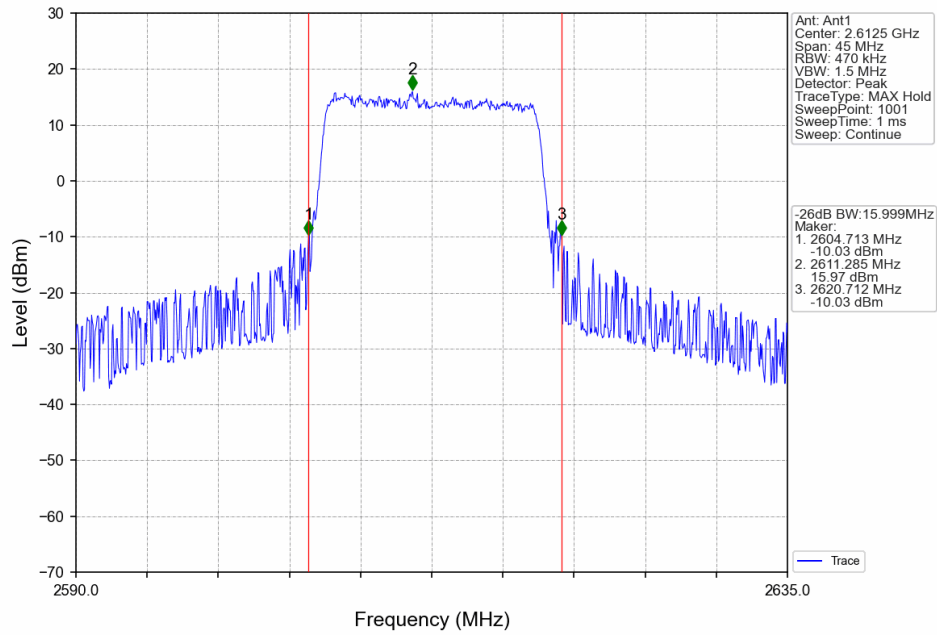
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



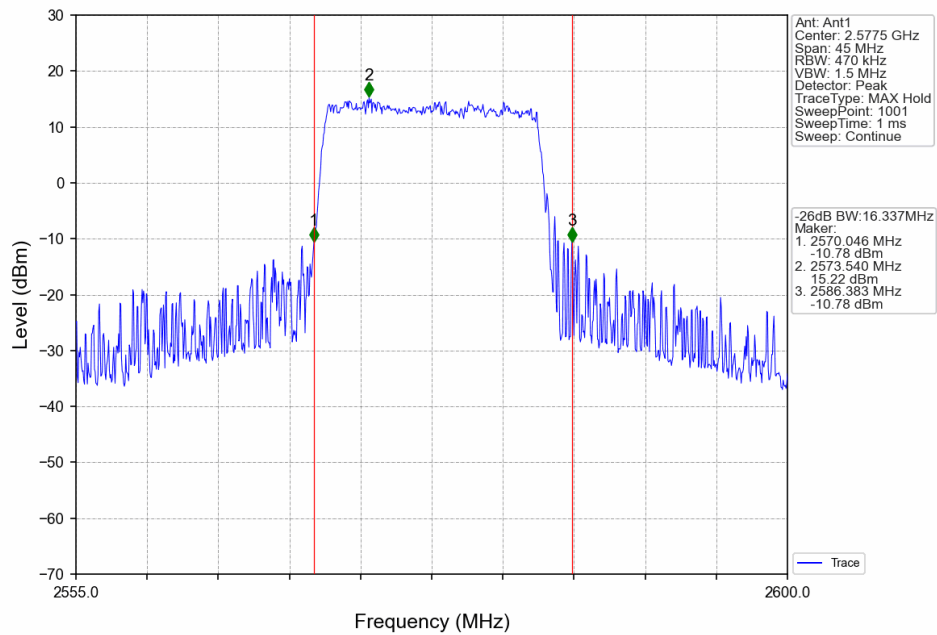
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



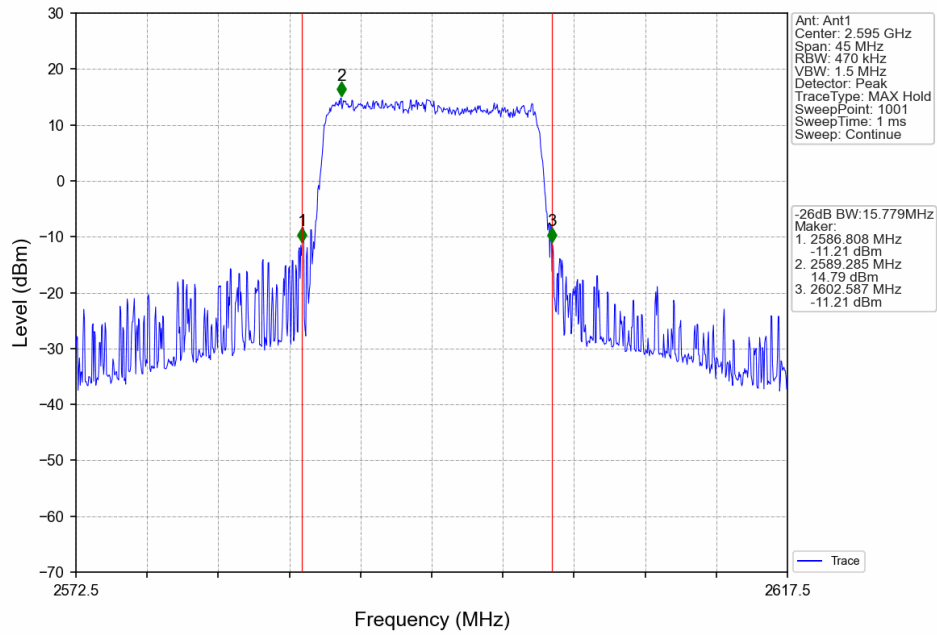
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



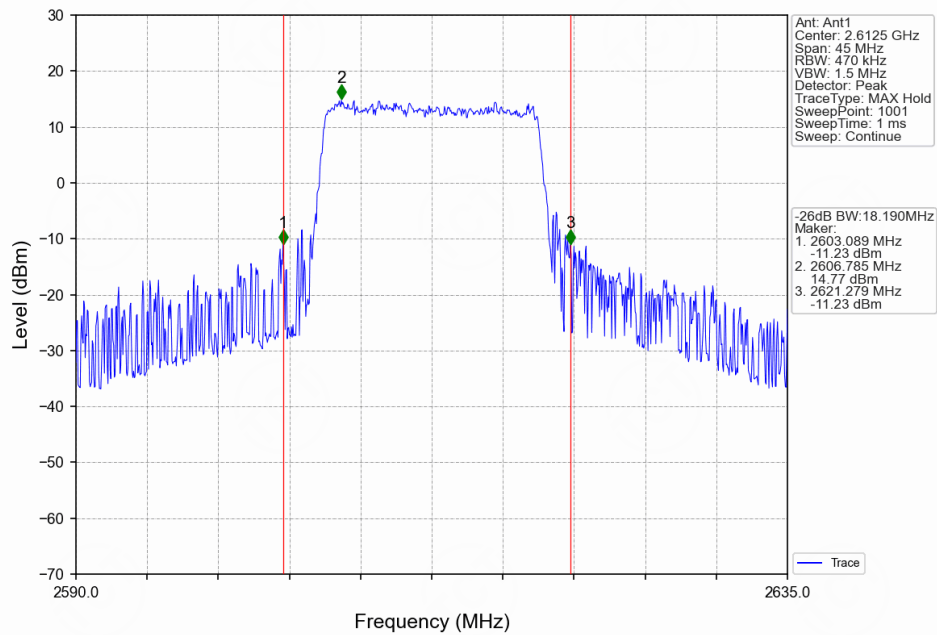
Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



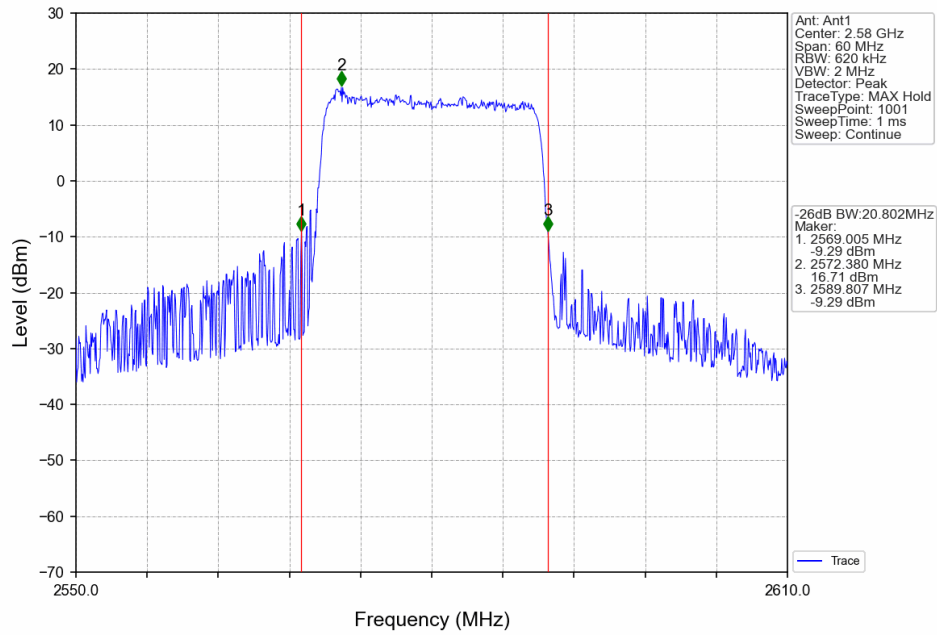
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



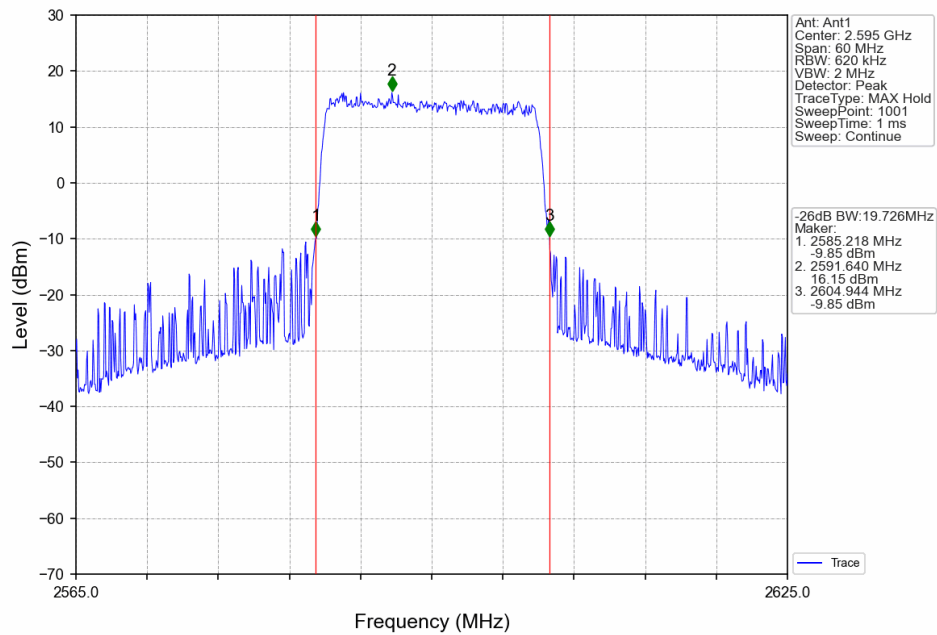
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



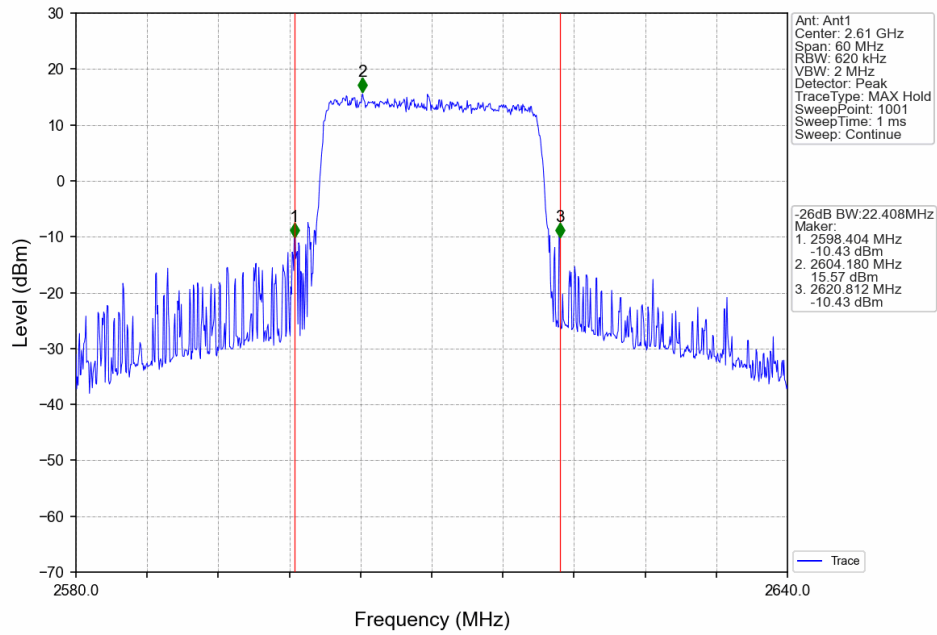
Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



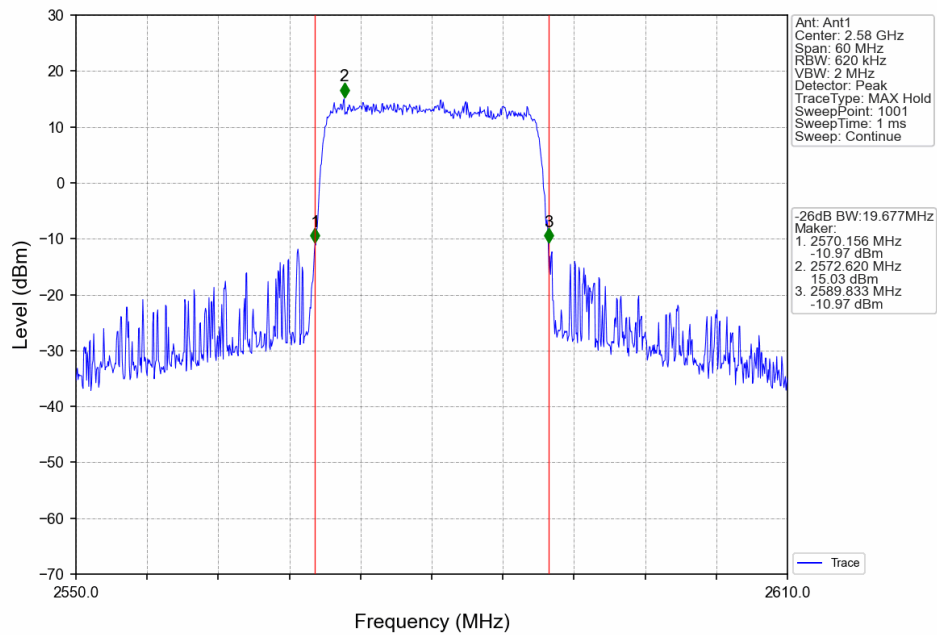
Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



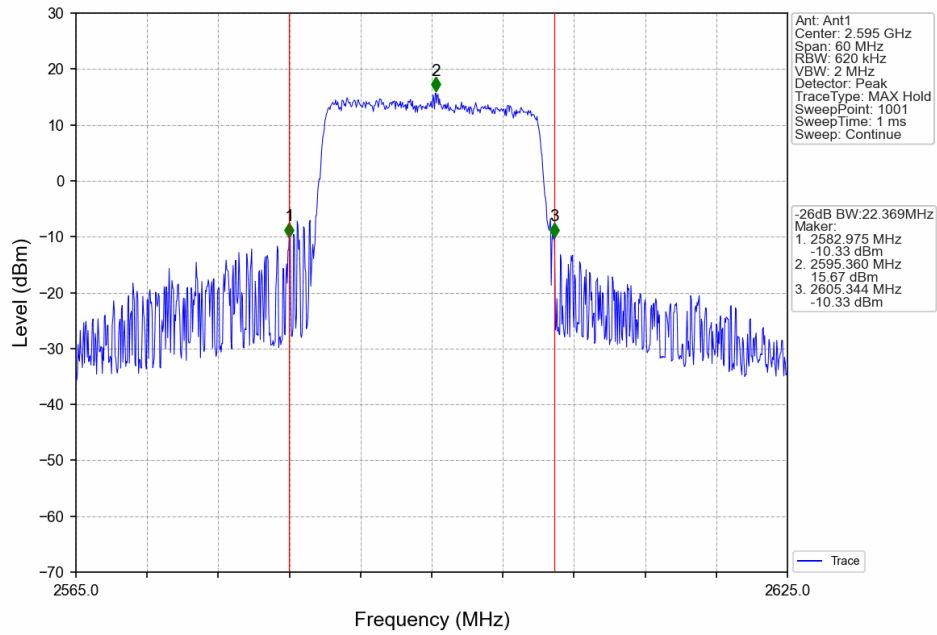
Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTN



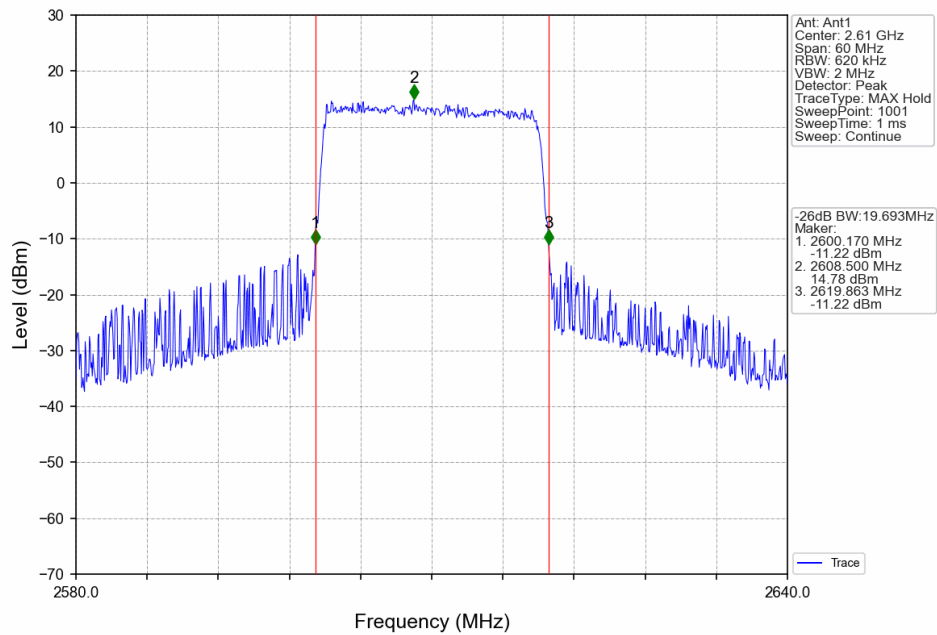
Band38 20MHz 16QAM LCH 2580MHz RB 100 0 NTN



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



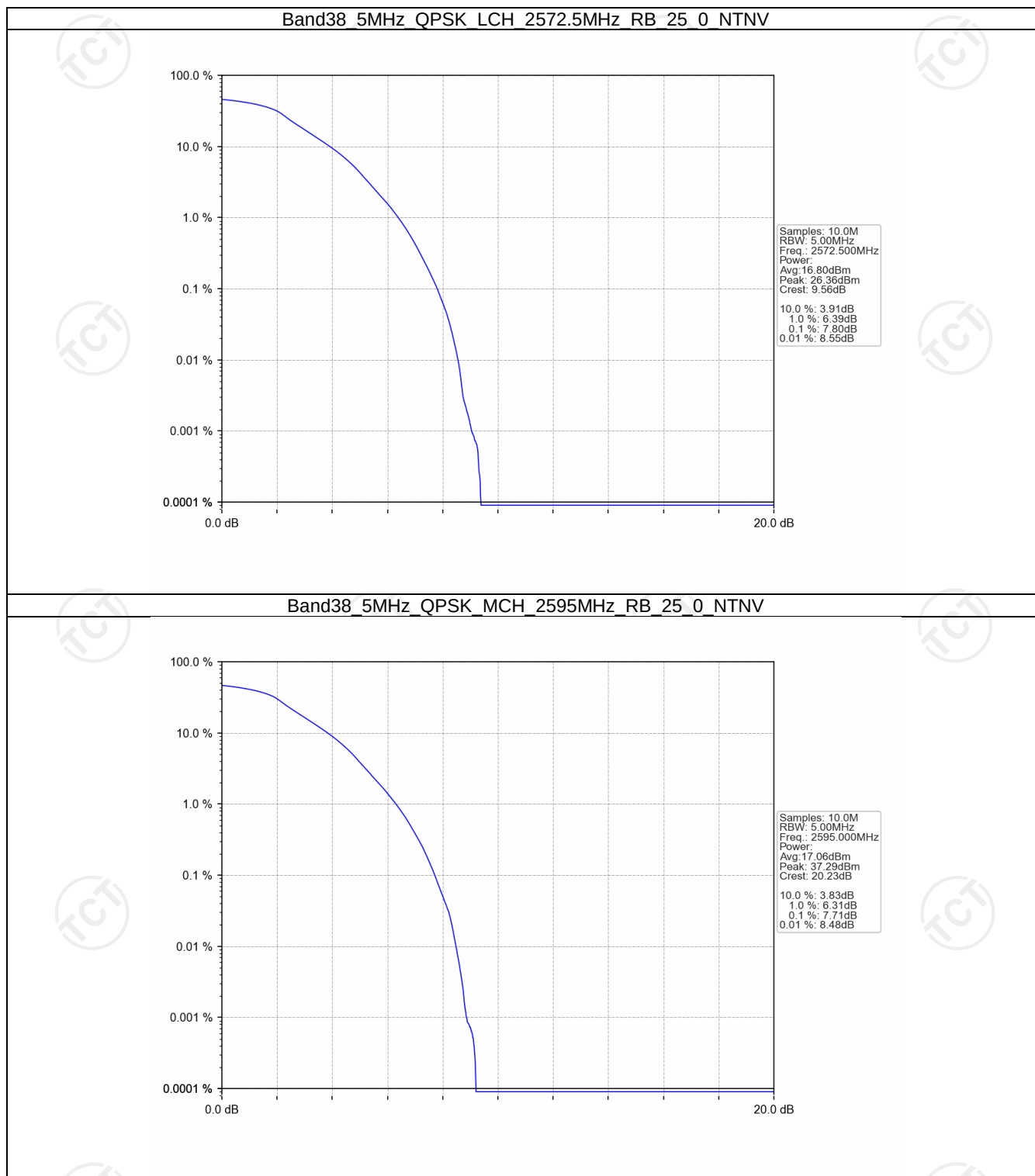
5. Peak-Average Ratio

5.1 B38_5MHz

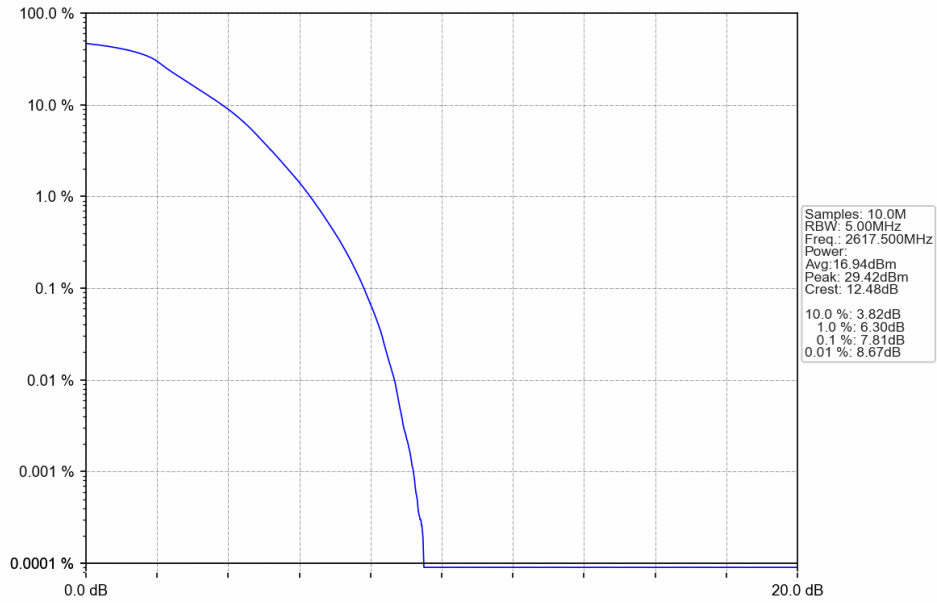
5.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	7.80	<=13	Pass
	2595	25	0	7.71	<=13	Pass
	2617.5	25	0	7.81	<=13	Pass
16QAM	2572.5	25	0	8.56	<=13	Pass
	2595	25	0	8.38	<=13	Pass
	2617.5	25	0	8.50	<=13	Pass

5.1.2 Test Graph



Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV

