



Appendix O for SHCR2208001794CO-LTE Band 38

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	23.14	3.30	26.44	<=33.01	Pass
			13	23.21	3.30	26.51	<=33.01	Pass
			24	22.82	3.30	26.12	<=33.01	Pass
		12	0	22.33	3.30	25.63	<=33.01	Pass
			6	22.25	3.30	25.55	<=33.01	Pass
			13	22.10	3.30	25.40	<=33.01	Pass
		25	0	22.23	3.30	25.53	<=33.01	Pass
	2595	1	0	23.11	3.30	26.41	<=33.01	Pass
			13	23.31	3.30	26.61	<=33.01	Pass
			24	23.04	3.30	26.34	<=33.01	Pass
		12	0	22.23	3.30	25.53	<=33.01	Pass
			6	22.39	3.30	25.69	<=33.01	Pass
			13	22.12	3.30	25.42	<=33.01	Pass
		25	0	22.17	3.30	25.47	<=33.01	Pass
	2617.5	1	0	23.12	3.30	26.42	<=33.01	Pass
			13	23.45	3.30	26.75	<=33.01	Pass
			24	23.24	3.30	26.54	<=33.01	Pass
		12	0	22.30	3.30	25.60	<=33.01	Pass
			6	22.32	3.30	25.62	<=33.01	Pass
			13	22.18	3.30	25.48	<=33.01	Pass
		25	0	22.31	3.30	25.61	<=33.01	Pass
16QAM	2572.5	1	0	22.00	3.30	25.30	<=33.01	Pass
			13	22.23	3.30	25.53	<=33.01	Pass
			24	21.74	3.30	25.04	<=33.01	Pass
		12	0	21.16	3.30	24.46	<=33.01	Pass
			6	21.21	3.30	24.51	<=33.01	Pass
			13	20.97	3.30	24.27	<=33.01	Pass
		25	0	21.12	3.30	24.42	<=33.01	Pass
	2595	1	0	22.43	3.30	25.73	<=33.01	Pass
			13	22.55	3.30	25.85	<=33.01	Pass
			24	22.75	3.30	26.05	<=33.01	Pass
		12	0	21.09	3.30	24.39	<=33.01	Pass
			6	21.20	3.30	24.50	<=33.01	Pass
			13	21.20	3.30	24.50	<=33.01	Pass
		25	0	21.10	3.30	24.40	<=33.01	Pass
	2617.5	1	0	22.24	3.30	25.54	<=33.01	Pass
			13	22.30	3.30	25.60	<=33.01	Pass
			24	22.08	3.30	25.38	<=33.01	Pass
		12	0	21.18	3.30	24.48	<=33.01	Pass
			6	21.21	3.30	24.51	<=33.01	Pass
			13	21.11	3.30	24.41	<=33.01	Pass
		25	0	21.21	3.30	24.51	<=33.01	Pass
64QAM	2572.5	1	0	22.98	3.30	26.28	<=33.01	Pass



	2595		13	22.64	3.30	25.94	<=33.01	Pass
			24	22.68	3.30	25.98	<=33.01	Pass
		12	0	21.12	3.30	24.42	<=33.01	Pass
			6	20.96	3.30	24.26	<=33.01	Pass
			13	20.84	3.30	24.14	<=33.01	Pass
		25	0	21.14	3.30	24.44	<=33.01	Pass
			0	21.69	3.30	24.99	<=33.01	Pass
		1	13	22.02	3.30	25.32	<=33.01	Pass
			24	22.07	3.30	25.37	<=33.01	Pass
			0	20.98	3.30	24.28	<=33.01	Pass
	2617.5	12	6	21.17	3.30	24.47	<=33.01	Pass
			13	21.23	3.30	24.53	<=33.01	Pass
			0	21.34	3.30	24.64	<=33.01	Pass
		1	0	22.14	3.30	25.44	<=33.01	Pass
			13	22.30	3.30	25.60	<=33.01	Pass
			24	22.23	3.30	25.53	<=33.01	Pass
		12	0	21.16	3.30	24.46	<=33.01	Pass
			6	21.08	3.30	24.38	<=33.01	Pass
			13	21.15	3.30	24.45	<=33.01	Pass
		25	0	21.21	3.30	24.51	<=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	23.28	3.30	26.58	<=33.01	Pass
			25	23.18	3.30	26.48	<=33.01	Pass
			49	22.92	3.30	26.22	<=33.01	Pass
		25	0	22.22	3.30	25.52	<=33.01	Pass
			13	22.23	3.30	25.53	<=33.01	Pass
			25	22.17	3.30	25.47	<=33.01	Pass
		50	0	22.26	3.30	25.56	<=33.01	Pass
			0	23.38	3.30	26.68	<=33.01	Pass
			25	23.45	3.30	26.75	<=33.01	Pass
	2595	1	49	23.19	3.30	26.49	<=33.01	Pass
			0	22.28	3.30	25.58	<=33.01	Pass
			13	22.31	3.30	25.61	<=33.01	Pass
		25	25	22.19	3.30	25.49	<=33.01	Pass
			0	22.33	3.30	25.63	<=33.01	Pass
		50	0	23.33	3.30	26.63	<=33.01	Pass
			25	23.67	3.30	26.97	<=33.01	Pass
			49	23.20	3.30	26.50	<=33.01	Pass
	2615	1	0	22.48	3.30	25.78	<=33.01	Pass
			13	22.58	3.30	25.88	<=33.01	Pass
			25	22.33	3.30	25.63	<=33.01	Pass
		25	0	22.37	3.30	25.67	<=33.01	Pass
			0	22.06	3.30	25.36	<=33.01	Pass
			25	22.04	3.30	25.34	<=33.01	Pass
		1	49	21.48	3.30	24.78	<=33.01	Pass
			0	21.20	3.30	24.50	<=33.01	Pass
			0	21.20	3.30	24.50	<=33.01	Pass



	2595	50	13	21.11	3.30	24.41	<=33.01	Pass
			25	21.14	3.30	24.44	<=33.01	Pass
		1	0	21.30	3.30	24.60	<=33.01	Pass
			0	22.76	3.30	26.06	<=33.01	Pass
			25	23.30	3.30	26.60	<=33.01	Pass
			49	22.67	3.30	25.97	<=33.01	Pass
	2615	25	0	21.37	3.30	24.67	<=33.01	Pass
			13	21.45	3.30	24.75	<=33.01	Pass
			25	21.16	3.30	24.46	<=33.01	Pass
		50	0	21.11	3.30	24.41	<=33.01	Pass
			0	22.59	3.30	25.89	<=33.01	Pass
			25	22.85	3.30	26.15	<=33.01	Pass
64QAM	2575	1	49	22.70	3.30	26.00	<=33.01	Pass
			0	21.61	3.30	24.91	<=33.01	Pass
			13	21.60	3.30	24.90	<=33.01	Pass
		25	25	21.38	3.30	24.68	<=33.01	Pass
			0	21.25	3.30	24.55	<=33.01	Pass
			0	22.84	3.30	26.14	<=33.01	Pass
	2595	2575	25	22.63	3.30	25.93	<=33.01	Pass
			49	22.41	3.30	25.71	<=33.01	Pass
			0	21.28	3.30	24.58	<=33.01	Pass
			13	21.25	3.30	24.55	<=33.01	Pass
			25	21.19	3.30	24.49	<=33.01	Pass
			0	21.22	3.30	24.52	<=33.01	Pass
		2595	0	22.15	3.30	25.45	<=33.01	Pass
			25	22.11	3.30	25.41	<=33.01	Pass
			49	21.99	3.30	25.29	<=33.01	Pass
			0	21.28	3.30	24.58	<=33.01	Pass
			13	21.25	3.30	24.55	<=33.01	Pass
			25	21.07	3.30	24.37	<=33.01	Pass
		2615	50	21.14	3.30	24.44	<=33.01	Pass
			0	22.73	3.30	26.03	<=33.01	Pass
			25	23.04	3.30	26.34	<=33.01	Pass
			49	23.33	3.30	26.63	<=33.01	Pass
			0	21.40	3.30	24.70	<=33.01	Pass
			13	21.31	3.30	24.61	<=33.01	Pass
			25	21.47	3.30	24.77	<=33.01	Pass
			50	21.26	3.30	24.56	<=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	23.13	3.30	26.43	<=33.01	Pass
			38	23.15	3.30	26.45	<=33.01	Pass
			74	23.01	3.30	26.31	<=33.01	Pass
		36	0	22.25	3.30	25.55	<=33.01	Pass
			18	22.27	3.30	25.57	<=33.01	Pass
			39	22.20	3.30	25.50	<=33.01	Pass
		75	0	22.28	3.30	25.58	<=33.01	Pass
			0	22.28	3.30	25.58	<=33.01	Pass



	2595	1	0	23.22	3.30	26.52	<=33.01	Pass
			38	23.31	3.30	26.61	<=33.01	Pass
			74	23.16	3.30	26.46	<=33.01	Pass
		36	0	22.36	3.30	25.66	<=33.01	Pass
			18	22.41	3.30	25.71	<=33.01	Pass
			39	22.17	3.30	25.47	<=33.01	Pass
		75	0	22.25	3.30	25.55	<=33.01	Pass
	2612.5	1	0	23.53	3.30	26.83	<=33.01	Pass
			38	23.33	3.30	26.63	<=33.01	Pass
			74	23.14	3.30	26.44	<=33.01	Pass
		36	0	22.36	3.30	25.66	<=33.01	Pass
			18	22.49	3.30	25.79	<=33.01	Pass
			39	22.35	3.30	25.65	<=33.01	Pass
		75	0	22.40	3.30	25.70	<=33.01	Pass
16QAM	2577.5	1	0	22.01	3.30	25.31	<=33.01	Pass
			38	22.09	3.30	25.39	<=33.01	Pass
			74	21.82	3.30	25.12	<=33.01	Pass
		36	0	21.18	3.30	24.48	<=33.01	Pass
			18	21.21	3.30	24.51	<=33.01	Pass
			39	21.15	3.30	24.45	<=33.01	Pass
		75	0	21.24	3.30	24.54	<=33.01	Pass
	2595	1	0	22.70	3.30	26.00	<=33.01	Pass
			38	23.18	3.30	26.48	<=33.01	Pass
			74	22.62	3.30	25.92	<=33.01	Pass
		36	0	21.37	3.30	24.67	<=33.01	Pass
			18	21.47	3.30	24.77	<=33.01	Pass
			39	21.25	3.30	24.55	<=33.01	Pass
		75	0	21.33	3.30	24.63	<=33.01	Pass
	2612.5	1	0	22.71	3.30	26.01	<=33.01	Pass
			38	22.78	3.30	26.08	<=33.01	Pass
			74	22.49	3.30	25.79	<=33.01	Pass
		36	0	21.31	3.30	24.61	<=33.01	Pass
			18	21.48	3.30	24.78	<=33.01	Pass
			39	21.31	3.30	24.61	<=33.01	Pass
		75	0	21.34	3.30	24.64	<=33.01	Pass
64QAM	2577.5	1	0	22.54	3.30	25.84	<=33.01	Pass
			38	22.25	3.30	25.55	<=33.01	Pass
			74	22.99	3.30	26.29	<=33.01	Pass
		36	0	21.20	3.30	24.50	<=33.01	Pass
			18	21.18	3.30	24.48	<=33.01	Pass
			39	21.03	3.30	24.33	<=33.01	Pass
		75	0	21.26	3.30	24.56	<=33.01	Pass
	2595	1	0	22.17	3.30	25.47	<=33.01	Pass
			38	22.11	3.30	25.41	<=33.01	Pass
			74	22.48	3.30	25.78	<=33.01	Pass
		36	0	21.34	3.30	24.64	<=33.01	Pass
			18	21.30	3.30	24.60	<=33.01	Pass
			39	21.20	3.30	24.50	<=33.01	Pass
		75	0	21.29	3.30	24.59	<=33.01	Pass
	2612.5	1	0	22.64	3.30	25.94	<=33.01	Pass
			38	23.03	3.30	26.33	<=33.01	Pass
			74	22.72	3.30	26.02	<=33.01	Pass
		36	0	21.42	3.30	24.72	<=33.01	Pass
			18	21.42	3.30	24.72	<=33.01	Pass
			39	21.40	3.30	24.70	<=33.01	Pass
		75	0	21.40	3.30	24.70	<=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	23.28	3.30	26.58	<=33.01	Pass
			50	23.39	3.30	26.69	<=33.01	Pass
			99	23.00	3.30	26.30	<=33.01	Pass
		50	0	22.27	3.30	25.57	<=33.01	Pass
			25	22.40	3.30	25.70	<=33.01	Pass
			50	22.26	3.30	25.56	<=33.01	Pass
		100	0	22.32	3.30	25.62	<=33.01	Pass
	2595	1	0	23.18	3.30	26.48	<=33.01	Pass
			50	23.30	3.30	26.60	<=33.01	Pass
			99	22.89	3.30	26.19	<=33.01	Pass
		50	0	22.32	3.30	25.62	<=33.01	Pass
			25	22.30	3.30	25.60	<=33.01	Pass
			50	22.15	3.30	25.45	<=33.01	Pass
		100	0	22.26	3.30	25.56	<=33.01	Pass
	2610	1	0	23.18	3.30	26.48	<=33.01	Pass
			50	23.76	3.30	27.06	<=33.01	Pass
			99	23.32	3.30	26.62	<=33.01	Pass
		50	0	22.41	3.30	25.71	<=33.01	Pass
			25	22.60	3.30	25.90	<=33.01	Pass
			50	22.39	3.30	25.69	<=33.01	Pass
		100	0	22.37	3.30	25.67	<=33.01	Pass
16QAM	2580	1	0	22.95	3.30	26.25	<=33.01	Pass
			50	22.83	3.30	26.13	<=33.01	Pass
			99	22.34	3.30	25.64	<=33.01	Pass
		50	0	21.40	3.30	24.70	<=33.01	Pass
			25	21.47	3.30	24.77	<=33.01	Pass
			50	21.23	3.30	24.53	<=33.01	Pass
		100	0	21.15	3.30	24.45	<=33.01	Pass
	2595	1	0	21.73	3.30	25.03	<=33.01	Pass
			50	22.13	3.30	25.43	<=33.01	Pass
			99	21.75	3.30	25.05	<=33.01	Pass
		50	0	21.36	3.30	24.66	<=33.01	Pass
			25	21.27	3.30	24.57	<=33.01	Pass
			50	21.03	3.30	24.33	<=33.01	Pass
		100	0	21.10	3.30	24.40	<=33.01	Pass
	2610	1	0	22.21	3.30	25.51	<=33.01	Pass
			50	23.17	3.30	26.47	<=33.01	Pass
			99	22.73	3.30	26.03	<=33.01	Pass
		50	0	21.47	3.30	24.77	<=33.01	Pass
			25	21.49	3.30	24.79	<=33.01	Pass
			50	21.46	3.30	24.76	<=33.01	Pass
		100	0	21.34	3.30	24.64	<=33.01	Pass
64QAM	2580	1	0	22.30	3.30	25.60	<=33.01	Pass
			50	22.17	3.30	25.47	<=33.01	Pass
			99	22.38	3.30	25.68	<=33.01	Pass



		50	0	21.41	3.30	24.71	<=33.01	Pass
			25	21.37	3.30	24.67	<=33.01	Pass
			50	21.34	3.30	24.64	<=33.01	Pass
		100	0	20.89	3.30	24.19	<=33.01	Pass
	2595	1	0	21.50	3.30	24.80	<=33.01	Pass
			50	22.46	3.30	25.76	<=33.01	Pass
			99	21.78	3.30	25.08	<=33.01	Pass
		50	0	21.33	3.30	24.63	<=33.01	Pass
			25	21.33	3.30	24.63	<=33.01	Pass
			50	21.31	3.30	24.61	<=33.01	Pass
		100	0	20.85	3.30	24.15	<=33.01	Pass
		2610	1	0	22.74	3.30	26.04	<=33.01
	50			22.59	3.30	25.89	<=33.01	Pass
	99			22.33	3.30	25.63	<=33.01	Pass
	50		0	21.44	3.30	24.74	<=33.01	Pass
			25	21.51	3.30	24.81	<=33.01	Pass
			50	21.42	3.30	24.72	<=33.01	Pass
	100		0	21.09	3.30	24.39	<=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	6.12	-1.187	-0.0005	-2.5 to 2.5	Pass
					7.20	5.742	0.0022	-2.5 to 2.5	Pass
					8.28	3.061	0.0012	-2.5 to 2.5	Pass
				-30	7.20	-2.868	-0.0011	-2.5 to 2.5	Pass
				-20	7.20	-0.011	0.0000	-2.5 to 2.5	Pass
				-10	7.20	3.993	0.0016	-2.5 to 2.5	Pass
				0	7.20	-1.379	-0.0005	-2.5 to 2.5	Pass
				10	7.20	-3.167	-0.0012	-2.5 to 2.5	Pass
				30	7.20	-2.482	-0.0010	-2.5 to 2.5	Pass
				40	7.20	-4.209	-0.0016	-2.5 to 2.5	Pass
				50	7.20	2.585	0.0010	-2.5 to 2.5	Pass
	2595	25	0	20	6.12	-3.735	-0.0014	-2.5 to 2.5	Pass
					7.20	4.505	0.0017	-2.5 to 2.5	Pass
					8.28	4.456	0.0017	-2.5 to 2.5	Pass
				-30	7.20	-1.637	-0.0006	-2.5 to 2.5	Pass
				-20	7.20	-5.773	-0.0022	-2.5 to 2.5	Pass
				-10	7.20	3.680	0.0014	-2.5 to 2.5	Pass
				0	7.20	5.348	0.0021	-2.5 to 2.5	Pass
				10	7.20	1.247	0.0005	-2.5 to 2.5	Pass
				30	7.20	-4.587	-0.0018	-2.5 to 2.5	Pass
				40	7.20	-1.884	-0.0007	-2.5 to 2.5	Pass
				50	7.20	-1.423	-0.0005	-2.5 to 2.5	Pass
	2617.5	25	0	20	6.12	-2.407	-0.0009	-2.5 to 2.5	Pass
					7.20	-4.520	-0.0017	-2.5 to 2.5	Pass



					8.28	-2.298	-0.0009	-2.5 to 2.5	Pass
				-30	7.20	-1.971	-0.0008	-2.5 to 2.5	Pass
				-20	7.20	5.142	0.0020	-2.5 to 2.5	Pass
				-10	7.20	-2.599	-0.0010	-2.5 to 2.5	Pass
				0	7.20	0.708	0.0003	-2.5 to 2.5	Pass
				10	7.20	3.506	0.0013	-2.5 to 2.5	Pass
				30	7.20	4.993	0.0019	-2.5 to 2.5	Pass
				40	7.20	-0.817	-0.0003	-2.5 to 2.5	Pass
16QAM	2572.5	25	0	50	7.20	-0.398	-0.0002	-2.5 to 2.5	Pass
				20	6.12	3.933	0.0015	-2.5 to 2.5	Pass
					7.20	-6.546	-0.0025	-2.5 to 2.5	Pass
					8.28	4.021	0.0016	-2.5 to 2.5	Pass
				-30	7.20	7.503	0.0029	-2.5 to 2.5	Pass
				-20	7.20	-6.681	-0.0026	-2.5 to 2.5	Pass
				-10	7.20	5.208	0.0020	-2.5 to 2.5	Pass
				0	7.20	-4.177	-0.0016	-2.5 to 2.5	Pass
				10	7.20	-1.755	-0.0007	-2.5 to 2.5	Pass
				30	7.20	-1.531	-0.0006	-2.5 to 2.5	Pass
				40	7.20	4.275	0.0017	-2.5 to 2.5	Pass
				50	7.20	-2.298	-0.0009	-2.5 to 2.5	Pass
	2595	25	0	20	6.12	-0.114	0.0000	-2.5 to 2.5	Pass
					7.20	2.776	0.0011	-2.5 to 2.5	Pass
					8.28	2.677	0.0010	-2.5 to 2.5	Pass
				-30	7.20	6.112	0.0024	-2.5 to 2.5	Pass
				-20	7.20	5.337	0.0021	-2.5 to 2.5	Pass
				-10	7.20	9.533	0.0037	-2.5 to 2.5	Pass
				0	7.20	4.380	0.0017	-2.5 to 2.5	Pass
				10	7.20	2.456	0.0009	-2.5 to 2.5	Pass
				30	7.20	6.144	0.0024	-2.5 to 2.5	Pass
				40	7.20	-1.423	-0.0005	-2.5 to 2.5	Pass
				50	7.20	2.820	0.0011	-2.5 to 2.5	Pass
	2617.5	25	0	20	6.12	-1.000	-0.0004	-2.5 to 2.5	Pass
					7.20	-2.792	-0.0011	-2.5 to 2.5	Pass
					8.28	-1.835	-0.0007	-2.5 to 2.5	Pass
				-30	7.20	7.013	0.0027	-2.5 to 2.5	Pass
				-20	7.20	-3.047	-0.0012	-2.5 to 2.5	Pass
				-10	7.20	-0.971	-0.0004	-2.5 to 2.5	Pass
				0	7.20	-0.828	-0.0003	-2.5 to 2.5	Pass
				10	7.20	2.188	0.0008	-2.5 to 2.5	Pass
				30	7.20	-4.691	-0.0018	-2.5 to 2.5	Pass
				40	7.20	6.115	0.0023	-2.5 to 2.5	Pass
				50	7.20	-4.016	-0.0015	-2.5 to 2.5	Pass
64QAM	2572.5	25	0	20	6.12	3.401	0.0013	-2.5 to 2.5	Pass
					7.20	2.684	0.0010	-2.5 to 2.5	Pass
					8.28	-1.430	-0.0006	-2.5 to 2.5	Pass
				-30	7.20	-2.907	-0.0011	-2.5 to 2.5	Pass
				-20	7.20	-4.408	-0.0017	-2.5 to 2.5	Pass
				-10	7.20	-2.250	-0.0009	-2.5 to 2.5	Pass
				0	7.20	-4.753	-0.0018	-2.5 to 2.5	Pass
				10	7.20	0.587	0.0002	-2.5 to 2.5	Pass
				30	7.20	-3.734	-0.0015	-2.5 to 2.5	Pass
				40	7.20	-1.425	-0.0006	-2.5 to 2.5	Pass
				50	7.20	-2.719	-0.0011	-2.5 to 2.5	Pass
	2595	25	0	20	6.12	-1.936	-0.0007	-2.5 to 2.5	Pass
					7.20	-3.442	-0.0013	-2.5 to 2.5	Pass
					8.28	4.169	0.0016	-2.5 to 2.5	Pass



				-30	7.20	-0.984	-0.0004	-2.5 to 2.5	Pass
				-20	7.20	-2.798	-0.0011	-2.5 to 2.5	Pass
				-10	7.20	-0.278	-0.0001	-2.5 to 2.5	Pass
				0	7.20	-2.161	-0.0008	-2.5 to 2.5	Pass
				10	7.20	-3.976	-0.0015	-2.5 to 2.5	Pass
				30	7.20	-4.432	-0.0017	-2.5 to 2.5	Pass
				40	7.20	-3.073	-0.0012	-2.5 to 2.5	Pass
				50	7.20	-4.396	-0.0017	-2.5 to 2.5	Pass
	2617.5	25	0	20	6.12	0.673	0.0003	-2.5 to 2.5	Pass
					7.20	-0.396	-0.0002	-2.5 to 2.5	Pass
					8.28	-3.879	-0.0015	-2.5 to 2.5	Pass
				-30	7.20	-4.142	-0.0016	-2.5 to 2.5	Pass
				-20	7.20	-1.288	-0.0005	-2.5 to 2.5	Pass
				-10	7.20	-0.075	0.0000	-2.5 to 2.5	Pass
				0	7.20	-1.030	-0.0004	-2.5 to 2.5	Pass
				10	7.20	-3.170	-0.0012	-2.5 to 2.5	Pass
				30	7.20	1.712	0.0007	-2.5 to 2.5	Pass
				40	7.20	-0.813	-0.0003	-2.5 to 2.5	Pass
				50	7.20	1.131	0.0004	-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	6.12	6.096	0.0024	-2.5 to 2.5	Pass
					7.20	6.597	0.0026	-2.5 to 2.5	Pass
					8.28	1.243	0.0005	-2.5 to 2.5	Pass
				-30	7.20	6.146	0.0024	-2.5 to 2.5	Pass
				-20	7.20	5.873	0.0023	-2.5 to 2.5	Pass
				-10	7.20	1.415	0.0005	-2.5 to 2.5	Pass
				0	7.20	1.690	0.0007	-2.5 to 2.5	Pass
				10	7.20	8.172	0.0032	-2.5 to 2.5	Pass
				30	7.20	3.156	0.0012	-2.5 to 2.5	Pass
				40	7.20	2.927	0.0011	-2.5 to 2.5	Pass
				50	7.20	1.873	0.0007	-2.5 to 2.5	Pass
	2595	50	0	20	6.12	-2.793	-0.0011	-2.5 to 2.5	Pass
					7.20	-2.216	-0.0009	-2.5 to 2.5	Pass
					8.28	4.809	0.0019	-2.5 to 2.5	Pass
				-30	7.20	-2.803	-0.0011	-2.5 to 2.5	Pass
				-20	7.20	-4.998	-0.0019	-2.5 to 2.5	Pass
				-10	7.20	-4.342	-0.0017	-2.5 to 2.5	Pass
				0	7.20	-5.343	-0.0021	-2.5 to 2.5	Pass
				10	7.20	0.375	0.0001	-2.5 to 2.5	Pass
				30	7.20	-2.680	-0.0010	-2.5 to 2.5	Pass
				40	7.20	1.246	0.0005	-2.5 to 2.5	Pass
				50	7.20	2.005	0.0008	-2.5 to 2.5	Pass
	2615	50	0	20	6.12	8.793	0.0034	-2.5 to 2.5	Pass
					7.20	6.413	0.0025	-2.5 to 2.5	Pass
					8.28	4.098	0.0016	-2.5 to 2.5	Pass
				-30	7.20	6.302	0.0024	-2.5 to 2.5	Pass
				-20	7.20	2.957	0.0011	-2.5 to 2.5	Pass

16QAM	2575	50	0	-10	7.20	7.999	0.0031	-2.5 to 2.5	Pass
				0	7.20	1.135	0.0004	-2.5 to 2.5	Pass
				10	7.20	6.290	0.0024	-2.5 to 2.5	Pass
				30	7.20	3.786	0.0014	-2.5 to 2.5	Pass
				40	7.20	6.759	0.0026	-2.5 to 2.5	Pass
	2595	50	0	50	7.20	3.208	0.0012	-2.5 to 2.5	Pass
				20	6.12	5.704	0.0022	-2.5 to 2.5	Pass
					7.20	8.478	0.0033	-2.5 to 2.5	Pass
					8.28	9.162	0.0036	-2.5 to 2.5	Pass
				-30	7.20	5.086	0.0020	-2.5 to 2.5	Pass
				-20	7.20	5.016	0.0019	-2.5 to 2.5	Pass
				-10	7.20	3.112	0.0012	-2.5 to 2.5	Pass
				0	7.20	10.675	0.0041	-2.5 to 2.5	Pass
				10	7.20	2.151	0.0008	-2.5 to 2.5	Pass
				30	7.20	2.095	0.0008	-2.5 to 2.5	Pass
				40	7.20	4.087	0.0016	-2.5 to 2.5	Pass
				50	7.20	7.004	0.0027	-2.5 to 2.5	Pass
	2615	50	0	20	6.12	-3.061	-0.0012	-2.5 to 2.5	Pass
					7.20	1.873	0.0007	-2.5 to 2.5	Pass
					8.28	-2.342	-0.0009	-2.5 to 2.5	Pass
				-30	7.20	0.578	0.0002	-2.5 to 2.5	Pass
				-20	7.20	0.304	0.0001	-2.5 to 2.5	Pass
				-10	7.20	-3.762	-0.0014	-2.5 to 2.5	Pass
				0	7.20	-3.864	-0.0015	-2.5 to 2.5	Pass
				10	7.20	0.021	0.0000	-2.5 to 2.5	Pass
				30	7.20	-2.750	-0.0011	-2.5 to 2.5	Pass
				40	7.20	-4.240	-0.0016	-2.5 to 2.5	Pass
64QAM	2575	50	0	20	6.12	9.135	0.0035	-2.5 to 2.5	Pass
					7.20	4.649	0.0018	-2.5 to 2.5	Pass
					8.28	3.771	0.0014	-2.5 to 2.5	Pass
				-30	7.20	4.760	0.0018	-2.5 to 2.5	Pass
				-20	7.20	4.524	0.0017	-2.5 to 2.5	Pass
				-10	7.20	3.551	0.0014	-2.5 to 2.5	Pass
				0	7.20	5.086	0.0019	-2.5 to 2.5	Pass
				10	7.20	4.722	0.0018	-2.5 to 2.5	Pass
				30	7.20	6.296	0.0024	-2.5 to 2.5	Pass
				40	7.20	6.972	0.0027	-2.5 to 2.5	Pass
	2595	50	0	20	6.12	5.643	0.0022	-2.5 to 2.5	Pass
					7.20	0.112	0.0000	-2.5 to 2.5	Pass
					8.28	3.443	0.0013	-2.5 to 2.5	Pass
				-30	7.20	2.974	0.0012	-2.5 to 2.5	Pass
				-20	7.20	2.144	0.0008	-2.5 to 2.5	Pass
				-10	7.20	5.835	0.0023	-2.5 to 2.5	Pass
				0	7.20	3.043	0.0012	-2.5 to 2.5	Pass
				10	7.20	0.162	0.0001	-2.5 to 2.5	Pass
				30	7.20	1.250	0.0005	-2.5 to 2.5	Pass
				40	7.20	0.558	0.0002	-2.5 to 2.5	Pass
				50	7.20	0.468	0.0002	-2.5 to 2.5	Pass
	2595	50	0	20	6.12	0.308	0.0001	-2.5 to 2.5	Pass
					7.20	-3.815	-0.0015	-2.5 to 2.5	Pass
					8.28	2.395	0.0009	-2.5 to 2.5	Pass
				-30	7.20	-3.371	-0.0013	-2.5 to 2.5	Pass
				-20	7.20	3.183	0.0012	-2.5 to 2.5	Pass
				-10	7.20	-0.007	0.0000	-2.5 to 2.5	Pass



				0	7.20	0.564	0.0002	-2.5 to 2.5	Pass
				10	7.20	-1.965	-0.0008	-2.5 to 2.5	Pass
				30	7.20	-1.986	-0.0008	-2.5 to 2.5	Pass
				40	7.20	2.526	0.0010	-2.5 to 2.5	Pass
				50	7.20	-5.554	-0.0021	-2.5 to 2.5	Pass
	2615	50	0	20	6.12	2.215	0.0008	-2.5 to 2.5	Pass
					7.20	1.266	0.0005	-2.5 to 2.5	Pass
					8.28	5.474	0.0021	-2.5 to 2.5	Pass
				-30	7.20	7.744	0.0030	-2.5 to 2.5	Pass
				-20	7.20	7.989	0.0031	-2.5 to 2.5	Pass
				-10	7.20	6.029	0.0023	-2.5 to 2.5	Pass
				0	7.20	5.403	0.0021	-2.5 to 2.5	Pass
				10	7.20	3.962	0.0015	-2.5 to 2.5	Pass
				30	7.20	1.044	0.0004	-2.5 to 2.5	Pass
				40	7.20	6.427	0.0025	-2.5 to 2.5	Pass
				50	7.20	9.430	0.0036	-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	6.12	4.278	0.0017	-2.5 to 2.5	Pass
					7.20	4.730	0.0018	-2.5 to 2.5	Pass
					8.28	5.470	0.0021	-2.5 to 2.5	Pass
				-30	7.20	6.503	0.0025	-2.5 to 2.5	Pass
				-20	7.20	2.240	0.0009	-2.5 to 2.5	Pass
				-10	7.20	4.087	0.0016	-2.5 to 2.5	Pass
				0	7.20	3.510	0.0014	-2.5 to 2.5	Pass
				10	7.20	3.454	0.0013	-2.5 to 2.5	Pass
				30	7.20	1.987	0.0008	-2.5 to 2.5	Pass
				40	7.20	4.176	0.0016	-2.5 to 2.5	Pass
				50	7.20	2.915	0.0011	-2.5 to 2.5	Pass
	2595	75	0	20	6.12	-3.675	-0.0014	-2.5 to 2.5	Pass
					7.20	0.581	0.0002	-2.5 to 2.5	Pass
					8.28	1.014	0.0004	-2.5 to 2.5	Pass
				-30	7.20	2.723	0.0010	-2.5 to 2.5	Pass
				-20	7.20	-2.501	-0.0010	-2.5 to 2.5	Pass
				-10	7.20	-2.823	-0.0011	-2.5 to 2.5	Pass
				0	7.20	0.766	0.0003	-2.5 to 2.5	Pass
				10	7.20	2.678	0.0010	-2.5 to 2.5	Pass
				30	7.20	-1.511	-0.0006	-2.5 to 2.5	Pass
				40	7.20	-0.701	-0.0003	-2.5 to 2.5	Pass
				50	7.20	1.680	0.0006	-2.5 to 2.5	Pass
	2612.5	75	0	20	6.12	6.077	0.0023	-2.5 to 2.5	Pass
					7.20	6.428	0.0025	-2.5 to 2.5	Pass
					8.28	1.745	0.0007	-2.5 to 2.5	Pass
				-30	7.20	5.287	0.0020	-2.5 to 2.5	Pass
				-20	7.20	3.135	0.0012	-2.5 to 2.5	Pass
				-10	7.20	7.180	0.0027	-2.5 to 2.5	Pass
				0	7.20	5.343	0.0020	-2.5 to 2.5	Pass
				10	7.20	5.558	0.0021	-2.5 to 2.5	Pass



				30	7.20	6.091	0.0023	-2.5 to 2.5	Pass
				40	7.20	2.540	0.0010	-2.5 to 2.5	Pass
				50	7.20	1.654	0.0006	-2.5 to 2.5	Pass
16QAM	2577.5	75	0	20	6.12	4.882	0.0019	-2.5 to 2.5	Pass
					7.20	5.593	0.0022	-2.5 to 2.5	Pass
					8.28	3.659	0.0014	-2.5 to 2.5	Pass
				-30	7.20	5.697	0.0022	-2.5 to 2.5	Pass
				-20	7.20	6.066	0.0024	-2.5 to 2.5	Pass
				-10	7.20	2.914	0.0011	-2.5 to 2.5	Pass
				0	7.20	5.412	0.0021	-2.5 to 2.5	Pass
				10	7.20	3.818	0.0015	-2.5 to 2.5	Pass
				30	7.20	3.483	0.0014	-2.5 to 2.5	Pass
				40	7.20	6.068	0.0024	-2.5 to 2.5	Pass
				50	7.20	6.682	0.0026	-2.5 to 2.5	Pass
	2595	75	0	20	6.12	3.236	0.0012	-2.5 to 2.5	Pass
					7.20	0.331	0.0001	-2.5 to 2.5	Pass
					8.28	2.274	0.0009	-2.5 to 2.5	Pass
				-30	7.20	-0.597	-0.0002	-2.5 to 2.5	Pass
				-20	7.20	5.438	0.0021	-2.5 to 2.5	Pass
				-10	7.20	-1.773	-0.0007	-2.5 to 2.5	Pass
				0	7.20	0.251	0.0001	-2.5 to 2.5	Pass
				10	7.20	-5.125	-0.0020	-2.5 to 2.5	Pass
				30	7.20	0.205	0.0001	-2.5 to 2.5	Pass
				40	7.20	0.008	0.0000	-2.5 to 2.5	Pass
				50	7.20	0.948	0.0004	-2.5 to 2.5	Pass
	2612.5	75	0	20	6.12	3.919	0.0015	-2.5 to 2.5	Pass
					7.20	0.916	0.0004	-2.5 to 2.5	Pass
					8.28	2.033	0.0008	-2.5 to 2.5	Pass
				-30	7.20	5.513	0.0021	-2.5 to 2.5	Pass
				-20	7.20	5.036	0.0019	-2.5 to 2.5	Pass
				-10	7.20	2.261	0.0009	-2.5 to 2.5	Pass
				0	7.20	2.794	0.0011	-2.5 to 2.5	Pass
				10	7.20	3.225	0.0012	-2.5 to 2.5	Pass
				30	7.20	4.496	0.0017	-2.5 to 2.5	Pass
				40	7.20	3.492	0.0013	-2.5 to 2.5	Pass
				50	7.20	8.088	0.0031	-2.5 to 2.5	Pass
64QAM	2577.5	75	0	20	6.12	7.309	0.0028	-2.5 to 2.5	Pass
					7.20	6.719	0.0026	-2.5 to 2.5	Pass
					8.28	9.743	0.0038	-2.5 to 2.5	Pass
				-30	7.20	4.221	0.0016	-2.5 to 2.5	Pass
				-20	7.20	4.611	0.0018	-2.5 to 2.5	Pass
				-10	7.20	6.446	0.0025	-2.5 to 2.5	Pass
				0	7.20	2.887	0.0011	-2.5 to 2.5	Pass
				10	7.20	5.627	0.0022	-2.5 to 2.5	Pass
				30	7.20	8.108	0.0031	-2.5 to 2.5	Pass
				40	7.20	4.730	0.0018	-2.5 to 2.5	Pass
				50	7.20	7.943	0.0031	-2.5 to 2.5	Pass
	2595	75	0	20	6.12	1.136	0.0004	-2.5 to 2.5	Pass
					7.20	-0.113	0.0000	-2.5 to 2.5	Pass
					8.28	-2.346	-0.0009	-2.5 to 2.5	Pass
				-30	7.20	-2.111	-0.0008	-2.5 to 2.5	Pass
				-20	7.20	-3.858	-0.0015	-2.5 to 2.5	Pass
				-10	7.20	-1.594	-0.0006	-2.5 to 2.5	Pass
				0	7.20	1.709	0.0007	-2.5 to 2.5	Pass
				10	7.20	-1.128	-0.0004	-2.5 to 2.5	Pass
				30	7.20	-2.288	-0.0009	-2.5 to 2.5	Pass



	2612.5	75	0	40	7.20	3.254	0.0013	-2.5 to 2.5	Pass
				50	7.20	2.718	0.0010	-2.5 to 2.5	Pass
				20	6.12	2.733	0.0010	-2.5 to 2.5	Pass
					7.20	2.141	0.0008	-2.5 to 2.5	Pass
					8.28	5.909	0.0023	-2.5 to 2.5	Pass
				-30	7.20	2.300	0.0009	-2.5 to 2.5	Pass
				-20	7.20	1.063	0.0004	-2.5 to 2.5	Pass
				-10	7.20	7.940	0.0030	-2.5 to 2.5	Pass
				0	7.20	7.494	0.0029	-2.5 to 2.5	Pass
				10	7.20	4.307	0.0016	-2.5 to 2.5	Pass
				30	7.20	1.976	0.0008	-2.5 to 2.5	Pass
				40	7.20	2.519	0.0010	-2.5 to 2.5	Pass
				50	7.20	1.615	0.0006	-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	6.12	3.911	0.0015	-2.5 to 2.5	Pass
					7.20	0.364	0.0001	-2.5 to 2.5	Pass
					8.28	-2.617	-0.0010	-2.5 to 2.5	Pass
				-30	7.20	-0.439	-0.0002	-2.5 to 2.5	Pass
				-20	7.20	-3.267	-0.0013	-2.5 to 2.5	Pass
				-10	7.20	0.386	0.0001	-2.5 to 2.5	Pass
				0	7.20	0.249	0.0001	-2.5 to 2.5	Pass
				10	7.20	-0.616	-0.0002	-2.5 to 2.5	Pass
				30	7.20	-0.210	-0.0001	-2.5 to 2.5	Pass
				40	7.20	-2.333	-0.0009	-2.5 to 2.5	Pass
	2595	100	0	20	6.12	-1.323	-0.0005	-2.5 to 2.5	Pass
					7.20	1.281	0.0005	-2.5 to 2.5	Pass
					8.28	2.761	0.0011	-2.5 to 2.5	Pass
				-30	7.20	-1.950	-0.0008	-2.5 to 2.5	Pass
				-20	7.20	-1.539	-0.0006	-2.5 to 2.5	Pass
				-10	7.20	-1.817	-0.0007	-2.5 to 2.5	Pass
				0	7.20	1.124	0.0004	-2.5 to 2.5	Pass
				10	7.20	-2.654	-0.0010	-2.5 to 2.5	Pass
				30	7.20	-0.707	-0.0003	-2.5 to 2.5	Pass
				40	7.20	4.015	0.0015	-2.5 to 2.5	Pass
	2610	100	0	20	6.12	1.464	0.0006	-2.5 to 2.5	Pass
					7.20	-1.772	-0.0007	-2.5 to 2.5	Pass
					8.28	-1.833	-0.0007	-2.5 to 2.5	Pass
				-30	7.20	-0.713	-0.0003	-2.5 to 2.5	Pass
				-20	7.20	2.863	0.0011	-2.5 to 2.5	Pass
				-10	7.20	4.230	0.0016	-2.5 to 2.5	Pass
				0	7.20	-4.979	-0.0019	-2.5 to 2.5	Pass
				10	7.20	-0.209	-0.0001	-2.5 to 2.5	Pass
				30	7.20	0.379	0.0001	-2.5 to 2.5	Pass
				40	7.20	0.963	0.0004	-2.5 to 2.5	Pass
				50	7.20	2.027	0.0008	-2.5 to 2.5	Pass



16QAM	2580	100	0	20	6.12	-1.309	-0.0005	-2.5 to 2.5	Pass
					7.20	0.352	0.0001	-2.5 to 2.5	Pass
					8.28	-0.544	-0.0002	-2.5 to 2.5	Pass
				-30	7.20	0.355	0.0001	-2.5 to 2.5	Pass
				-20	7.20	-1.166	-0.0005	-2.5 to 2.5	Pass
				-10	7.20	-0.669	-0.0003	-2.5 to 2.5	Pass
				0	7.20	3.041	0.0012	-2.5 to 2.5	Pass
				10	7.20	-2.159	-0.0008	-2.5 to 2.5	Pass
				30	7.20	-3.509	-0.0014	-2.5 to 2.5	Pass
				40	7.20	1.182	0.0005	-2.5 to 2.5	Pass
				50	7.20	2.670	0.0010	-2.5 to 2.5	Pass
	2595	100	0	20	6.12	-3.773	-0.0015	-2.5 to 2.5	Pass
					7.20	1.860	0.0007	-2.5 to 2.5	Pass
					8.28	-2.339	-0.0009	-2.5 to 2.5	Pass
				-30	7.20	-0.815	-0.0003	-2.5 to 2.5	Pass
				-20	7.20	-1.848	-0.0007	-2.5 to 2.5	Pass
				-10	7.20	-2.702	-0.0010	-2.5 to 2.5	Pass
				0	7.20	-0.656	-0.0003	-2.5 to 2.5	Pass
				10	7.20	2.056	0.0008	-2.5 to 2.5	Pass
				30	7.20	5.405	0.0021	-2.5 to 2.5	Pass
				40	7.20	-0.771	-0.0003	-2.5 to 2.5	Pass
				50	7.20	1.705	0.0007	-2.5 to 2.5	Pass
	2610	100	0	20	6.12	-5.147	-0.0020	-2.5 to 2.5	Pass
					7.20	1.955	0.0007	-2.5 to 2.5	Pass
					8.28	1.939	0.0007	-2.5 to 2.5	Pass
				-30	7.20	3.593	0.0014	-2.5 to 2.5	Pass
				-20	7.20	-3.101	-0.0012	-2.5 to 2.5	Pass
				-10	7.20	2.495	0.0010	-2.5 to 2.5	Pass
				0	7.20	-3.209	-0.0012	-2.5 to 2.5	Pass
				10	7.20	-0.309	-0.0001	-2.5 to 2.5	Pass
				30	7.20	-4.203	-0.0016	-2.5 to 2.5	Pass
				40	7.20	-0.040	0.0000	-2.5 to 2.5	Pass
				50	7.20	0.009	0.0000	-2.5 to 2.5	Pass
64QAM	2580	100	0	20	6.12	-2.405	-0.0009	-2.5 to 2.5	Pass
					7.20	-0.926	-0.0004	-2.5 to 2.5	Pass
					8.28	-0.986	-0.0004	-2.5 to 2.5	Pass
				-30	7.20	1.559	0.0006	-2.5 to 2.5	Pass
				-20	7.20	-3.985	-0.0015	-2.5 to 2.5	Pass
				-10	7.20	4.262	0.0017	-2.5 to 2.5	Pass
				0	7.20	4.645	0.0018	-2.5 to 2.5	Pass
				10	7.20	0.905	0.0004	-2.5 to 2.5	Pass
				30	7.20	-1.952	-0.0008	-2.5 to 2.5	Pass
				40	7.20	0.579	0.0002	-2.5 to 2.5	Pass
				50	7.20	1.900	0.0007	-2.5 to 2.5	Pass
	2595	100	0	20	6.12	2.111	0.0008	-2.5 to 2.5	Pass
					7.20	0.406	0.0002	-2.5 to 2.5	Pass
					8.28	-0.918	-0.0004	-2.5 to 2.5	Pass
				-30	7.20	-1.730	-0.0007	-2.5 to 2.5	Pass
				-20	7.20	-0.807	-0.0003	-2.5 to 2.5	Pass
				-10	7.20	3.195	0.0012	-2.5 to 2.5	Pass
				0	7.20	0.193	0.0001	-2.5 to 2.5	Pass
				10	7.20	0.344	0.0001	-2.5 to 2.5	Pass
				30	7.20	2.969	0.0011	-2.5 to 2.5	Pass
				40	7.20	-2.749	-0.0011	-2.5 to 2.5	Pass
				50	7.20	2.793	0.0011	-2.5 to 2.5	Pass
	2610	100	0	20	6.12	-4.516	-0.0017	-2.5 to 2.5	Pass



					7.20	-1.193	-0.0005	-2.5 to 2.5	Pass
					8.28	1.817	0.0007	-2.5 to 2.5	Pass
				-30	7.20	1.088	0.0004	-2.5 to 2.5	Pass
				-20	7.20	-2.048	-0.0008	-2.5 to 2.5	Pass
				-10	7.20	-1.065	-0.0004	-2.5 to 2.5	Pass
				0	7.20	-2.181	-0.0008	-2.5 to 2.5	Pass
				10	7.20	-3.183	-0.0012	-2.5 to 2.5	Pass
				30	7.20	-0.044	0.0000	-2.5 to 2.5	Pass
				40	7.20	0.684	0.0003	-2.5 to 2.5	Pass
				50	7.20	-0.596	-0.0002	-2.5 to 2.5	Pass

3. Modulation Characteristics

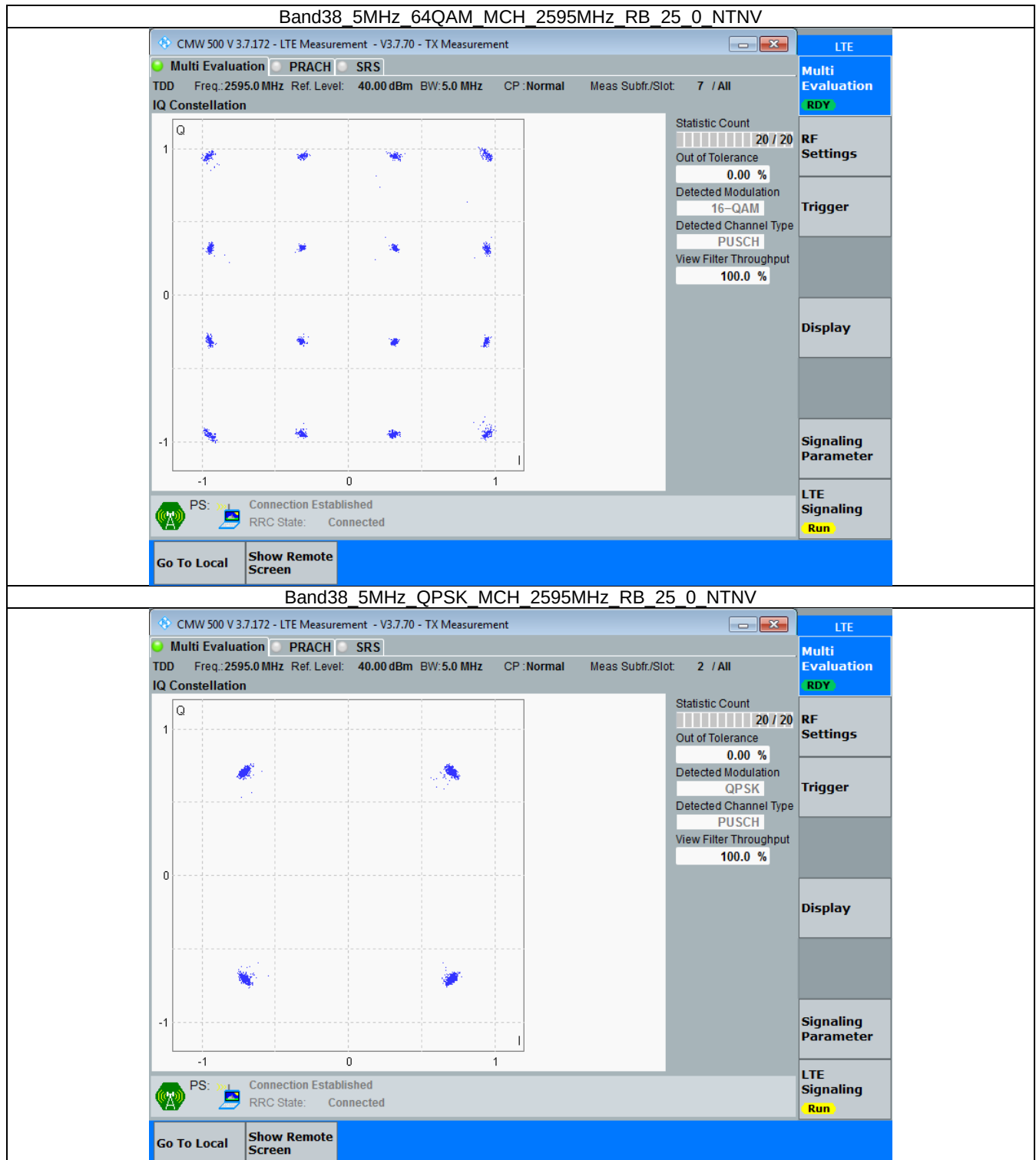
3.1 B38_5MHz

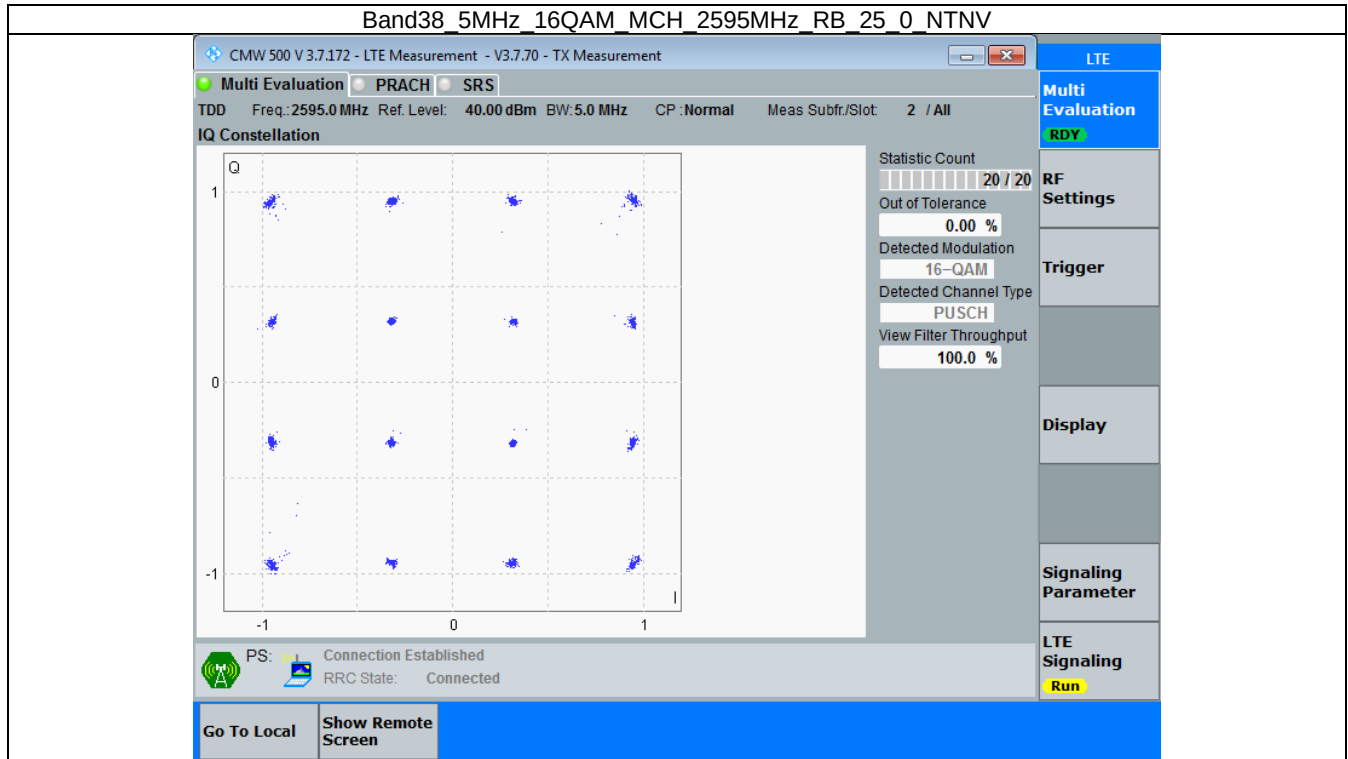
3.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
64QAM	2595	25	0	Refer To Test Graph		Pass
QPSK	2595	25	0	Refer To Test Graph		Pass
16QAM	2595	25	0	Refer To Test Graph		Pass



3.1.2 Test Graph







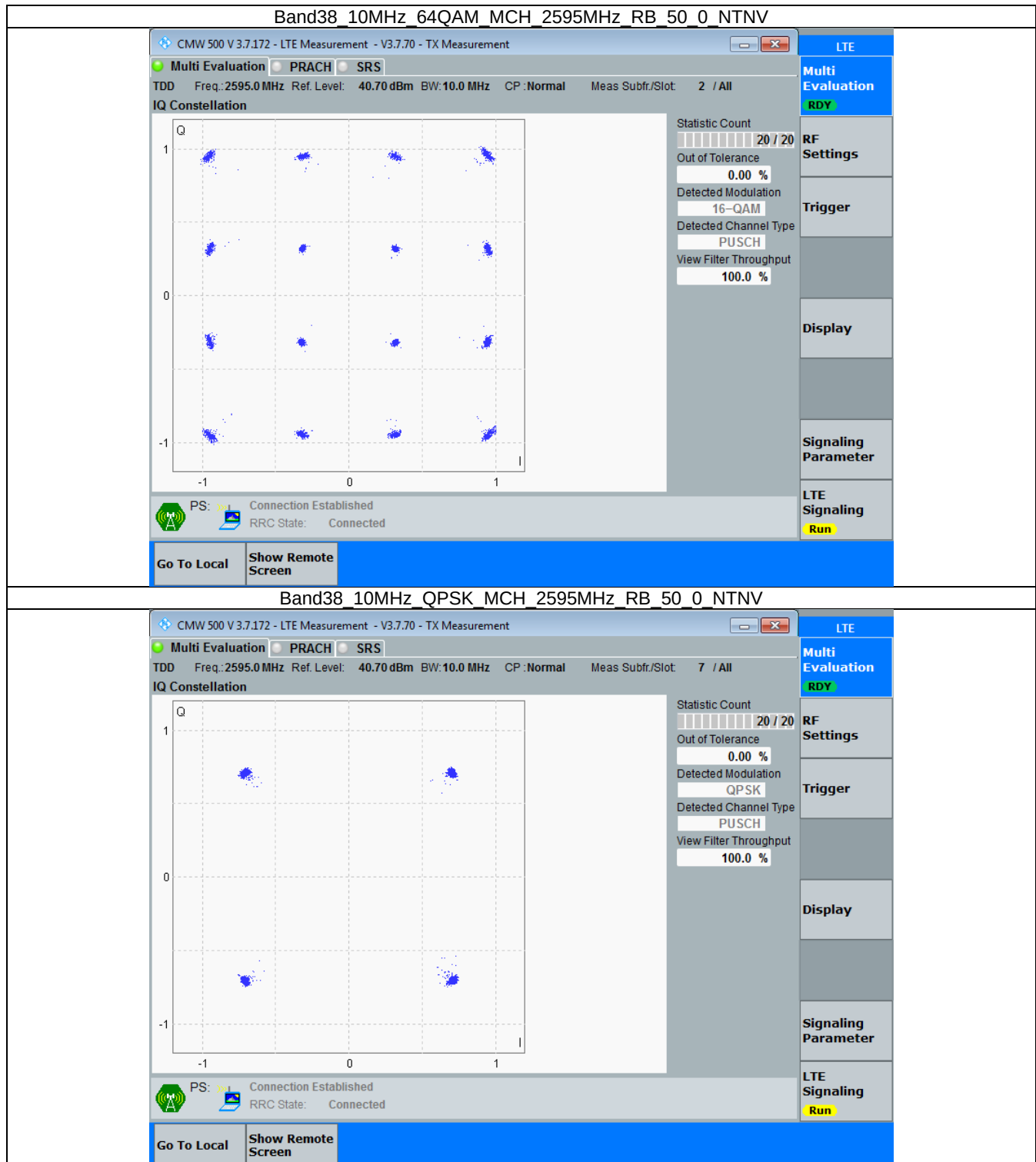
3.2 B38_10MHz

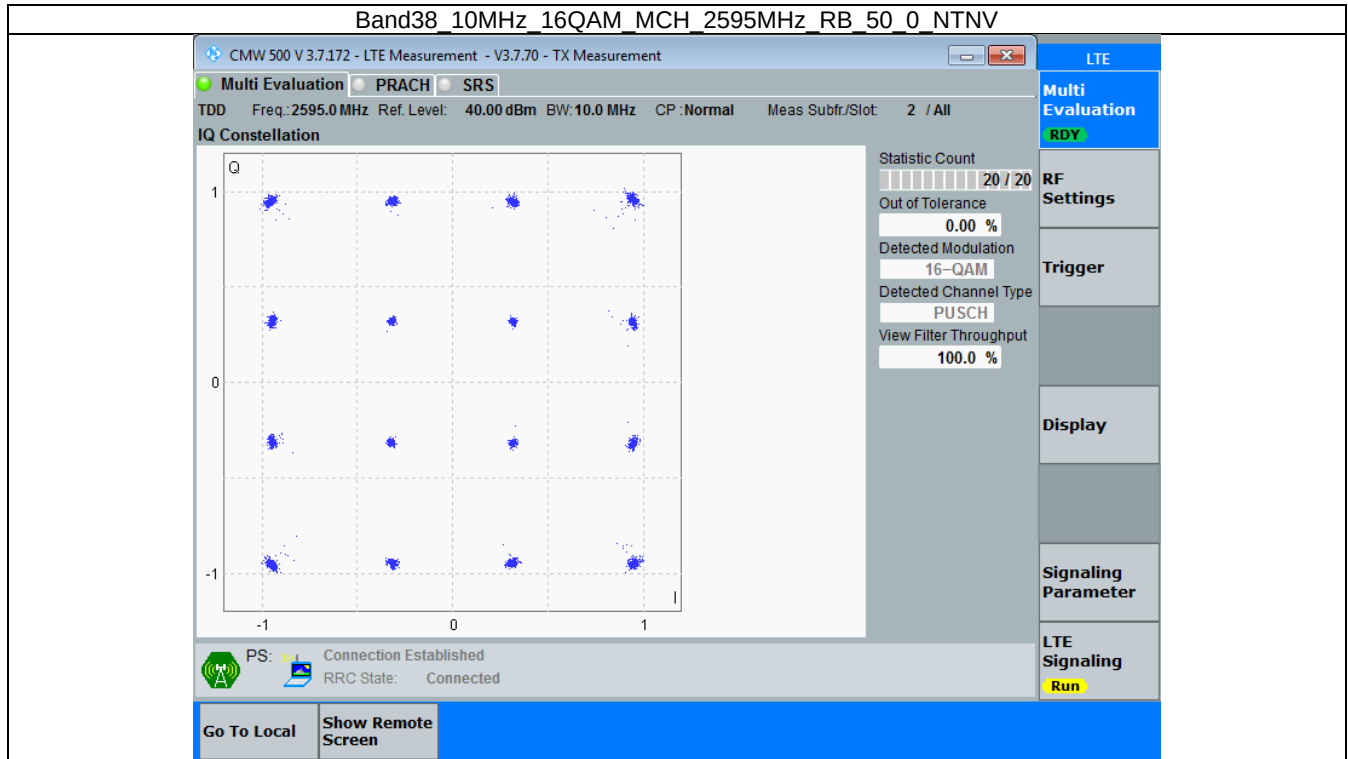
3.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
64QAM	2595	50	0	Refer To Test Graph	Pass
QPSK	2595	50	0	Refer To Test Graph	Pass
16QAM	2595	50	0	Refer To Test Graph	Pass



3.2.2 Test Graph







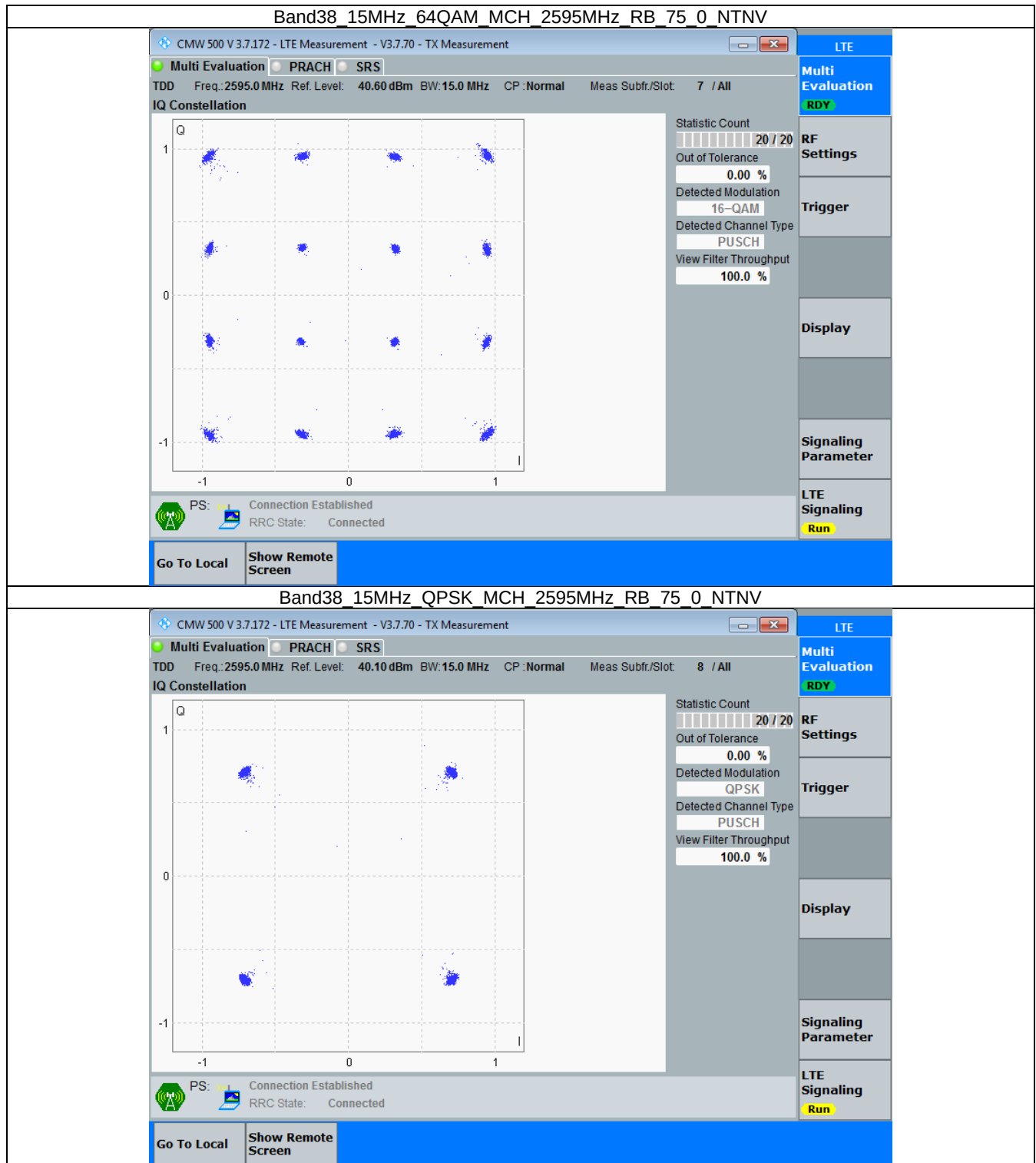
3.3 B38_15MHz

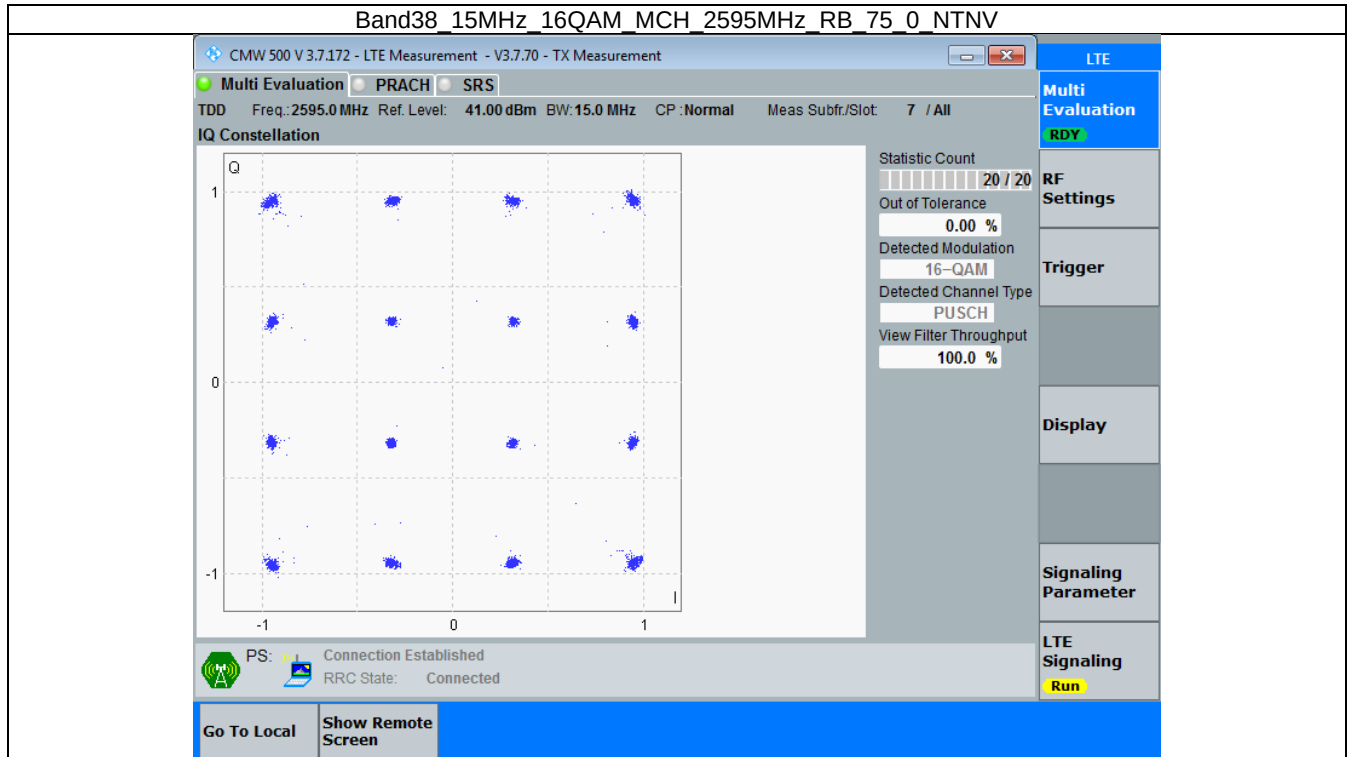
3.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	Verdict
		Size	Offset	Result	Limit
64QAM	2595	75	0	Refer To Test Graph	Pass
QPSK	2595	75	0	Refer To Test Graph	Pass
16QAM	2595	75	0	Refer To Test Graph	Pass



3.3.2 Test Graph







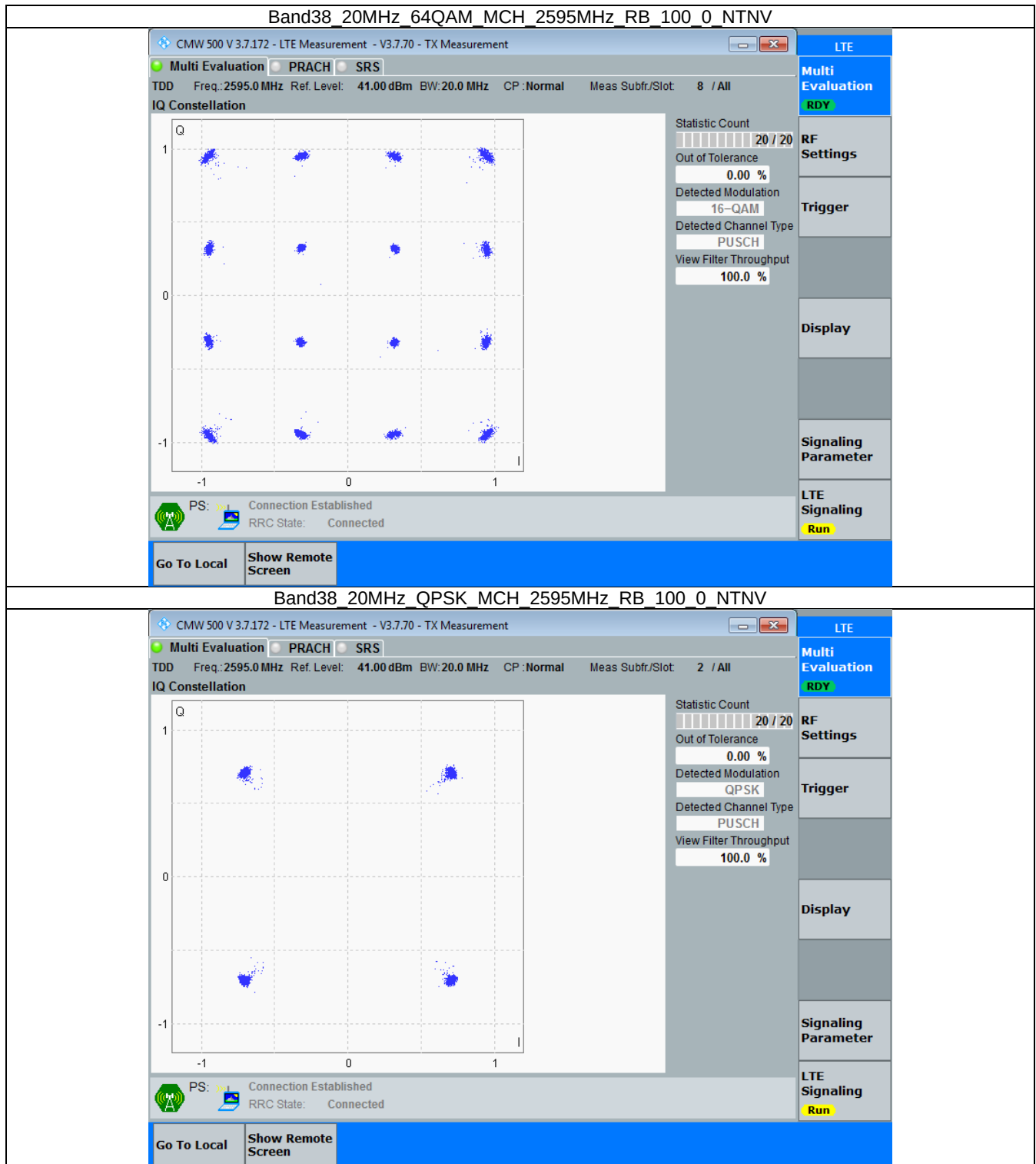
3.4 B38_20MHz

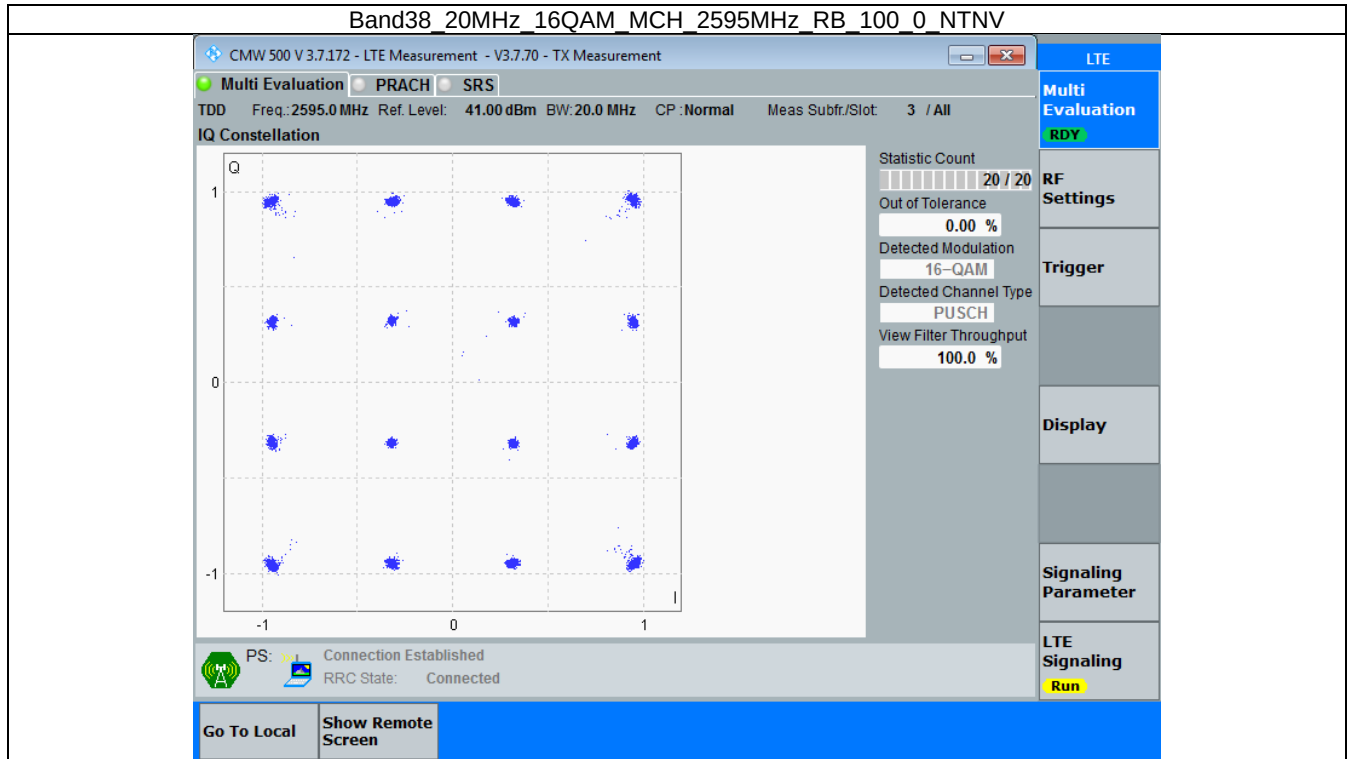
3.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	Verdict
		Size	Offset	Result	Limit
64QAM	2595	100	0	Refer To Test Graph	Pass
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

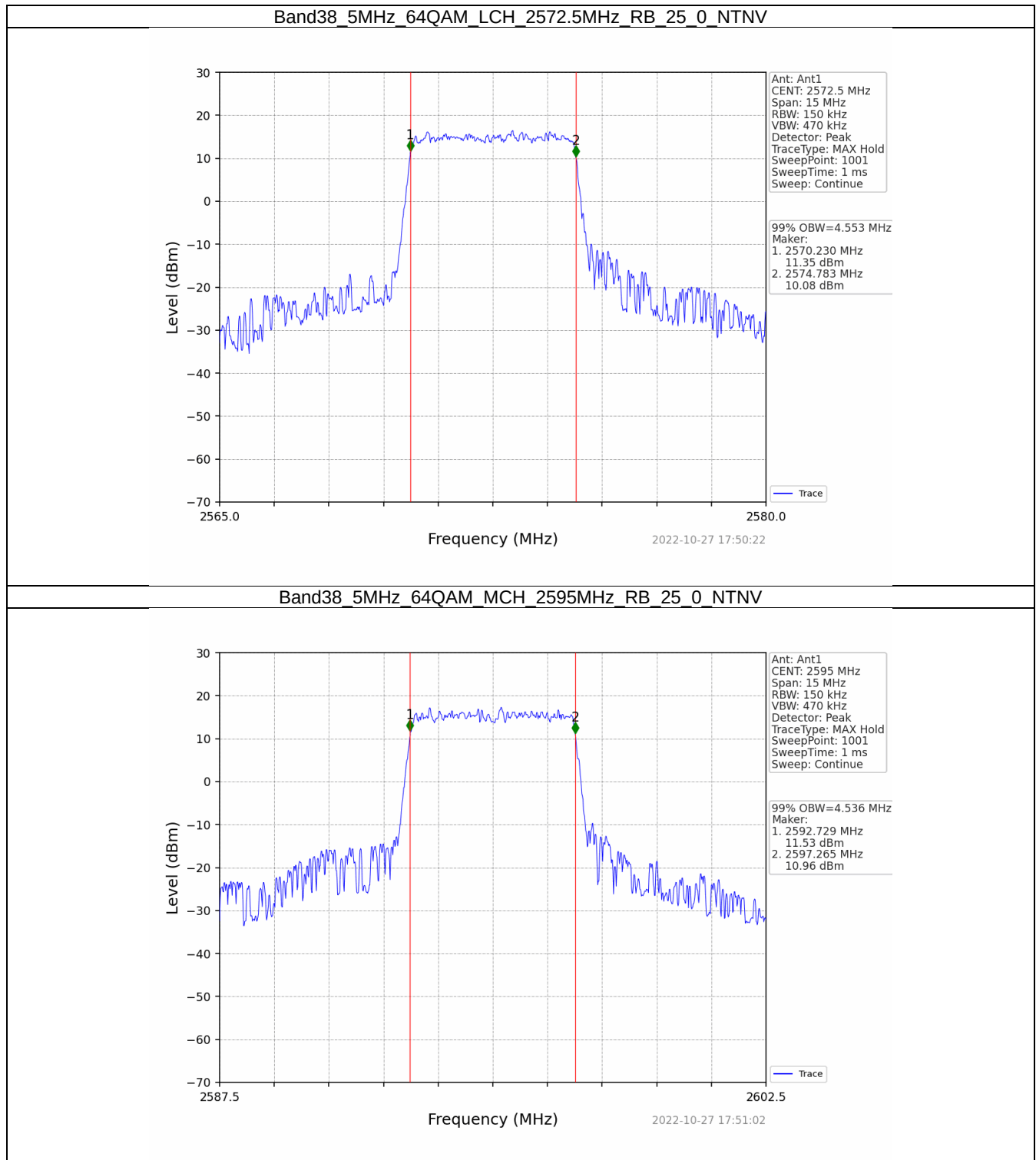
4.1 Band38_OBW

4.1.1 Test Result

Band: 38 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	64QAM	2572.5	25	0	4.553	Pass
		2595	25	0	4.536	Pass
		2617.5	25	0	4.548	Pass
10	64QAM	2575	50	0	9.060	Pass
		2595	50	0	9.071	Pass
		2615	50	0	9.073	Pass
5	QPSK	2572.5	25	0	4.538	Pass
15	64QAM	2577.5	75	0	13.644	Pass
5	QPSK	2595	25	0	4.542	Pass
15	64QAM	2595	75	0	13.633	Pass
5	QPSK	2617.5	25	0	4.532	Pass
15	64QAM	2612.5	75	0	13.610	Pass
5	16QAM	2572.5	25	0	4.536	Pass
		2595	25	0	4.540	Pass
		2617.5	25	0	4.537	Pass
10	QPSK	2575	50	0	9.079	Pass
		2595	50	0	9.088	Pass
		2615	50	0	9.032	Pass
20	64QAM	2580	100	0	18.071	Pass
10	16QAM	2575	50	0	8.995	Pass
20	64QAM	2595	100	0	18.113	Pass
10	16QAM	2595	50	0	9.057	Pass
20	64QAM	2610	100	0	18.075	Pass
10	16QAM	2615	50	0	8.993	Pass
15	QPSK	2577.5	75	0	13.621	Pass
		2595	75	0	13.581	Pass
		2612.5	75	0	13.587	Pass
	16QAM	2577.5	75	0	13.637	Pass
		2595	75	0	13.636	Pass
		2612.5	75	0	13.625	Pass
20	QPSK	2580	100	0	18.095	Pass
		2595	100	0	18.072	Pass
		2610	100	0	18.041	Pass
	16QAM	2580	100	0	18.063	Pass
		2595	100	0	18.019	Pass
		2610	100	0	18.117	Pass

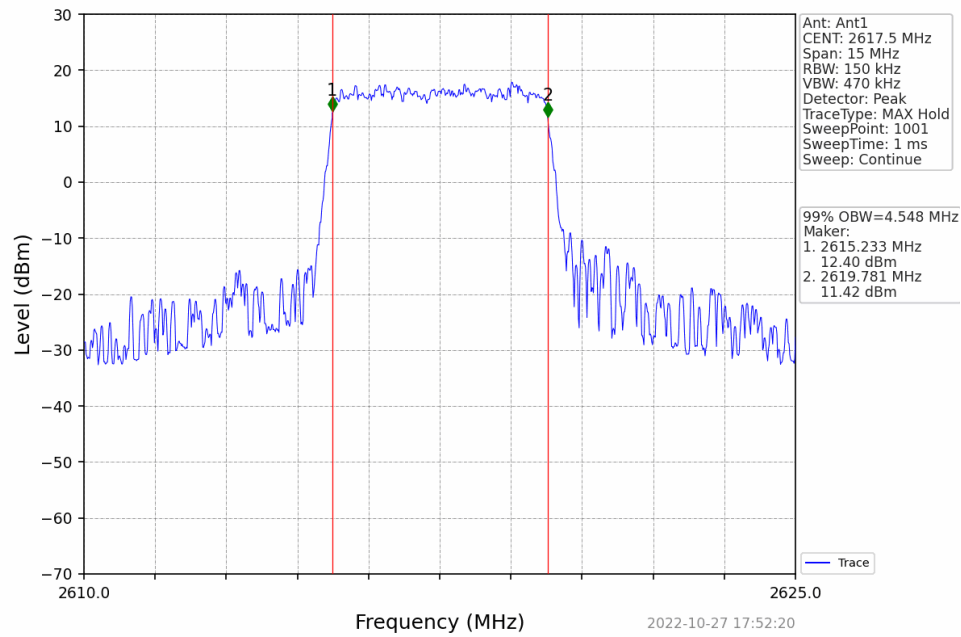


4.1.2 Test Graph

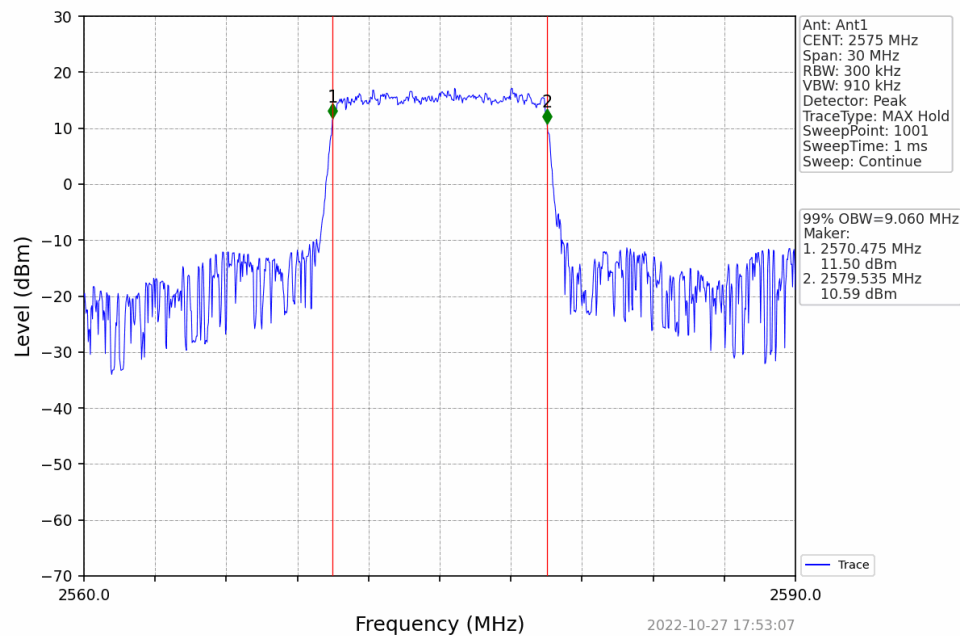




Band38_5MHz_64QAM_HCH_2617.5MHz_RB_25_0_NTNV

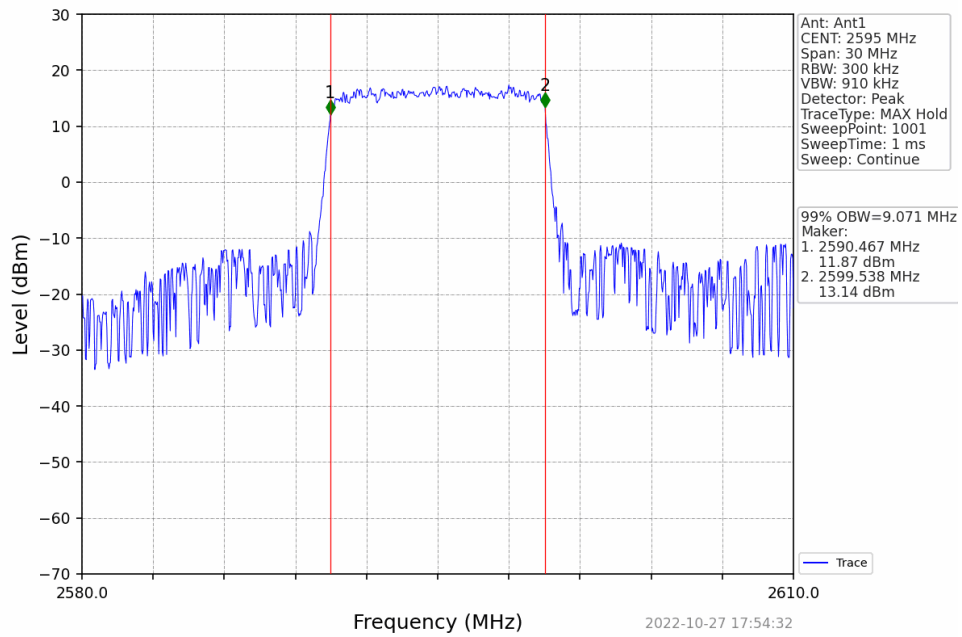


Band38_10MHz_64QAM_LCH_2575MHz_RB_50_0_NTNV

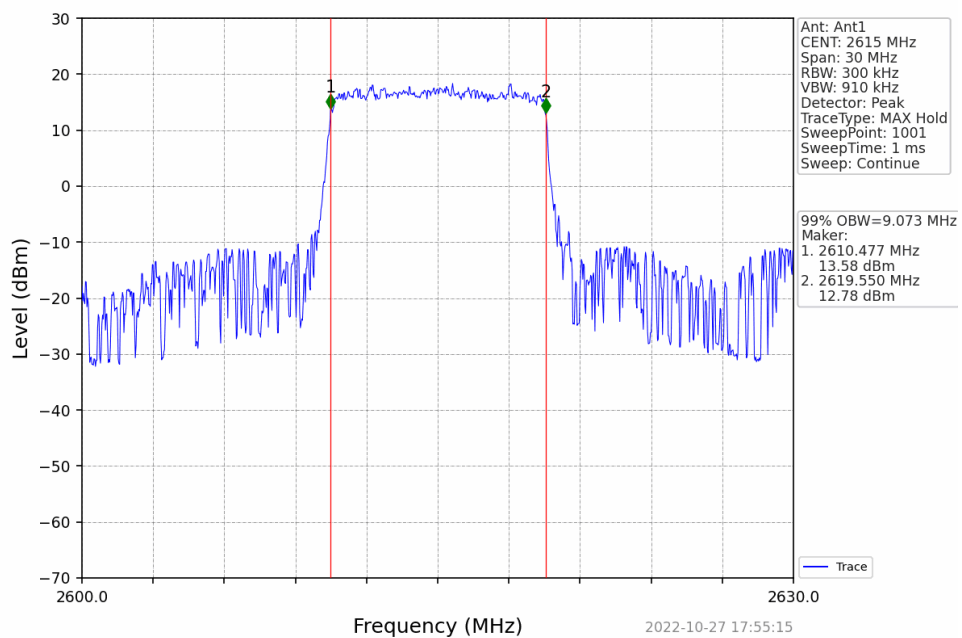




Band38_10MHz_64QAM_MCH_2595MHz_RB_50_0_NTNV

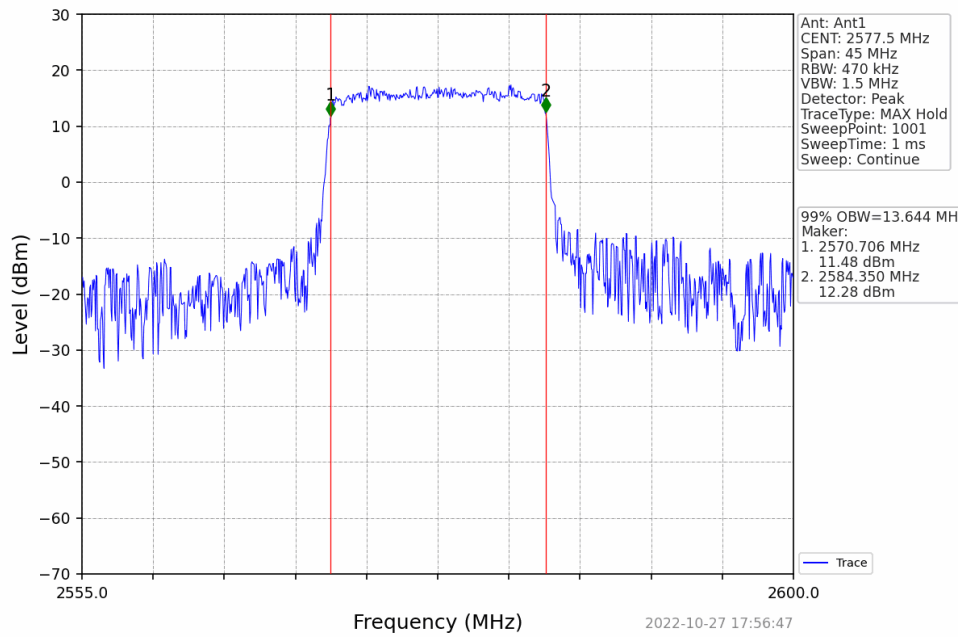


Band38_10MHz_64QAM_HCH_2615MHz_RB_50_0_NTNV

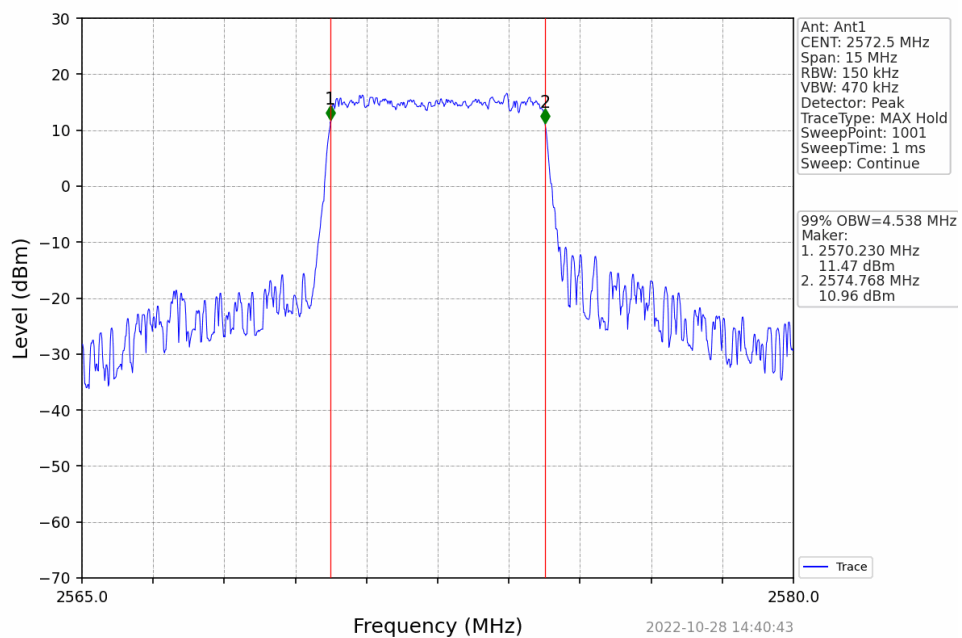




Band38_15MHz_64QAM_LCH_2577.5MHz_RB_75_0_NTNV

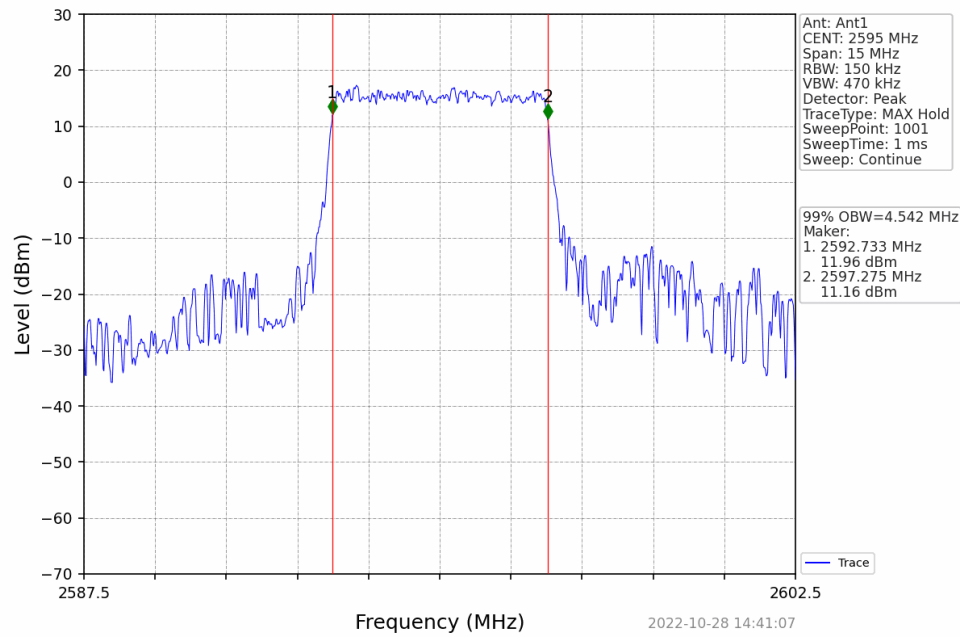


Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV

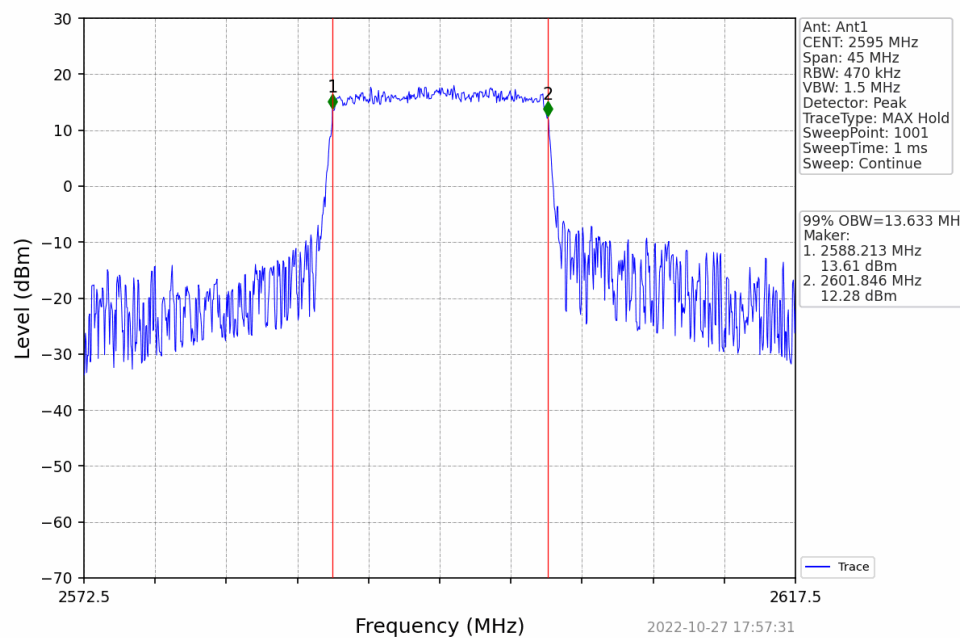


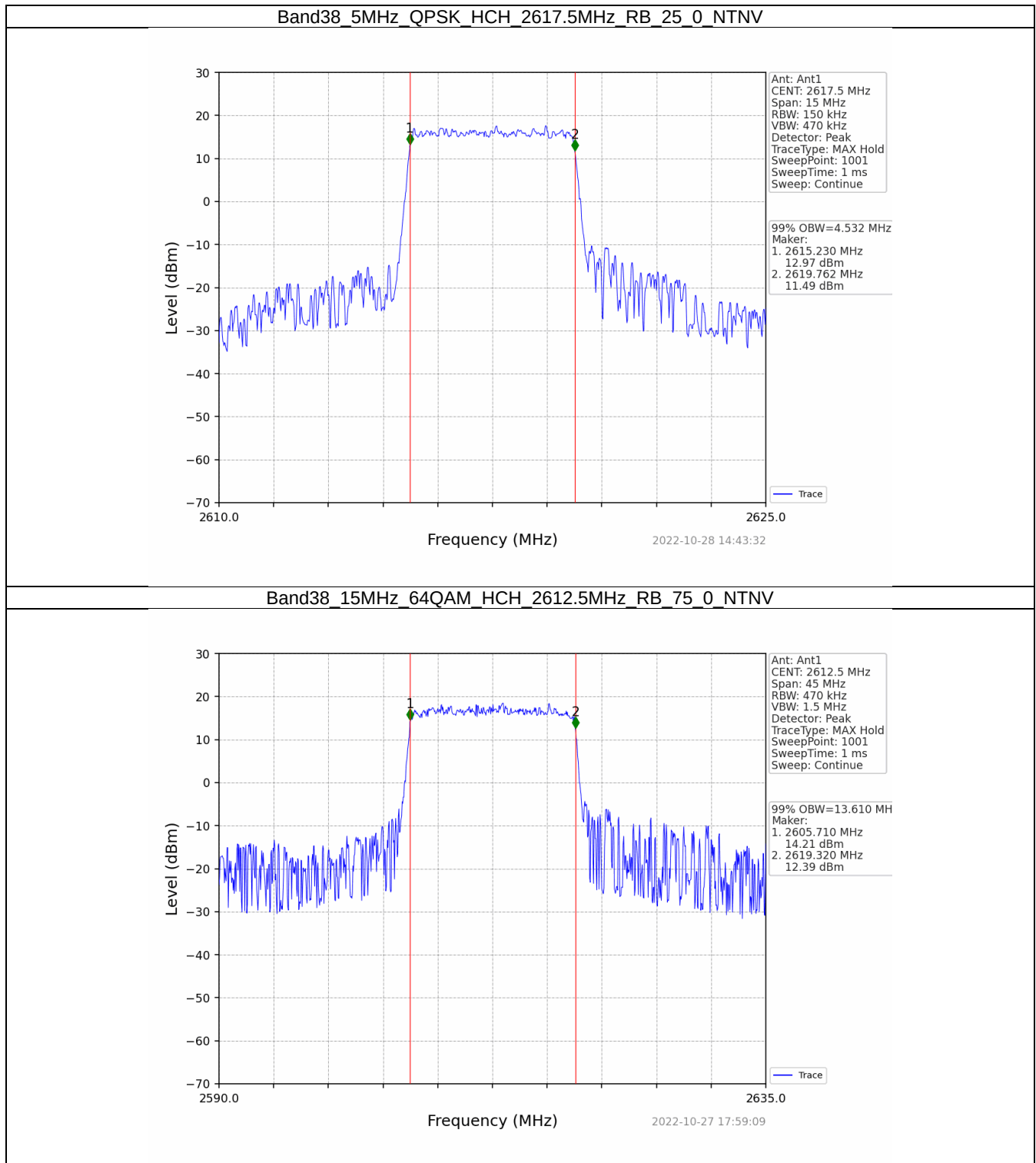


Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



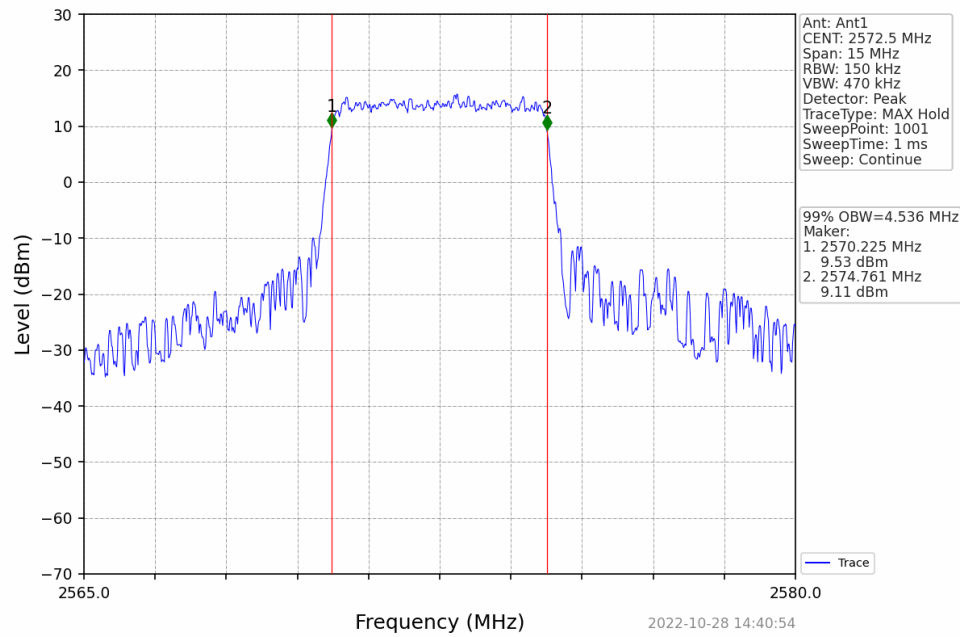
Band38_15MHz_64QAM_MCH_2595MHz_RB_75_0_NTNV



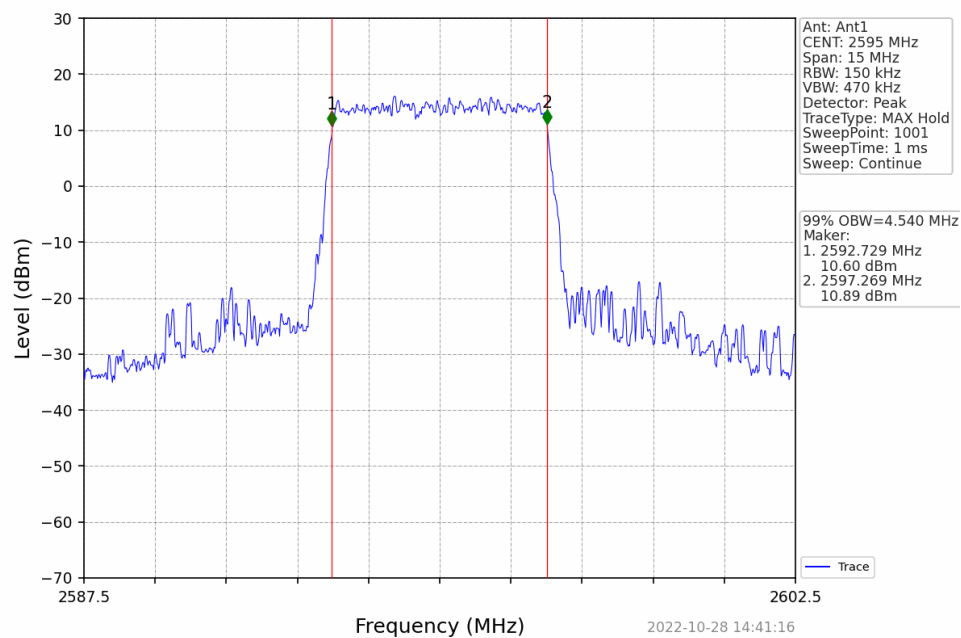




Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV

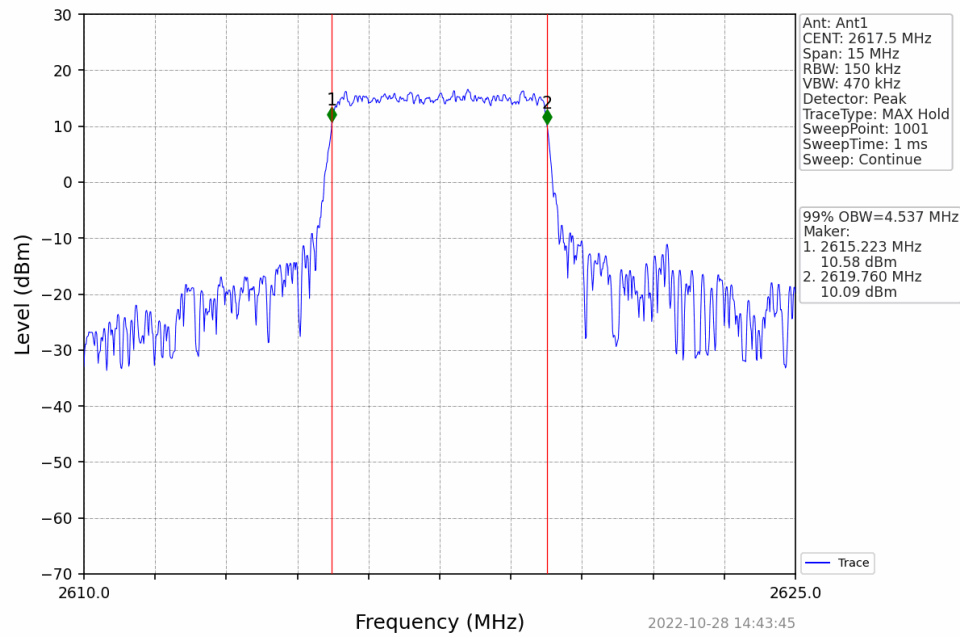


Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV

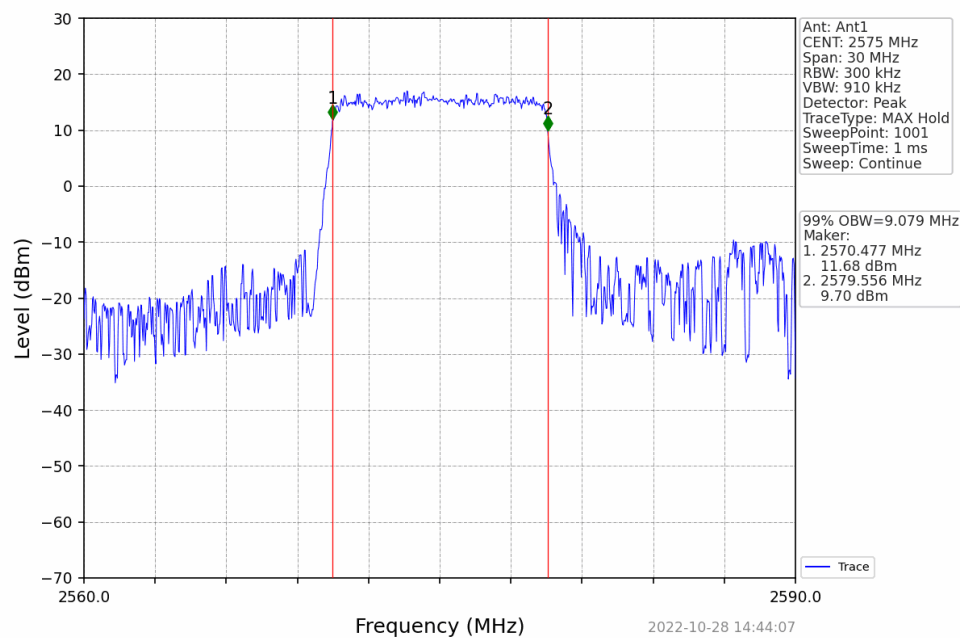




Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV

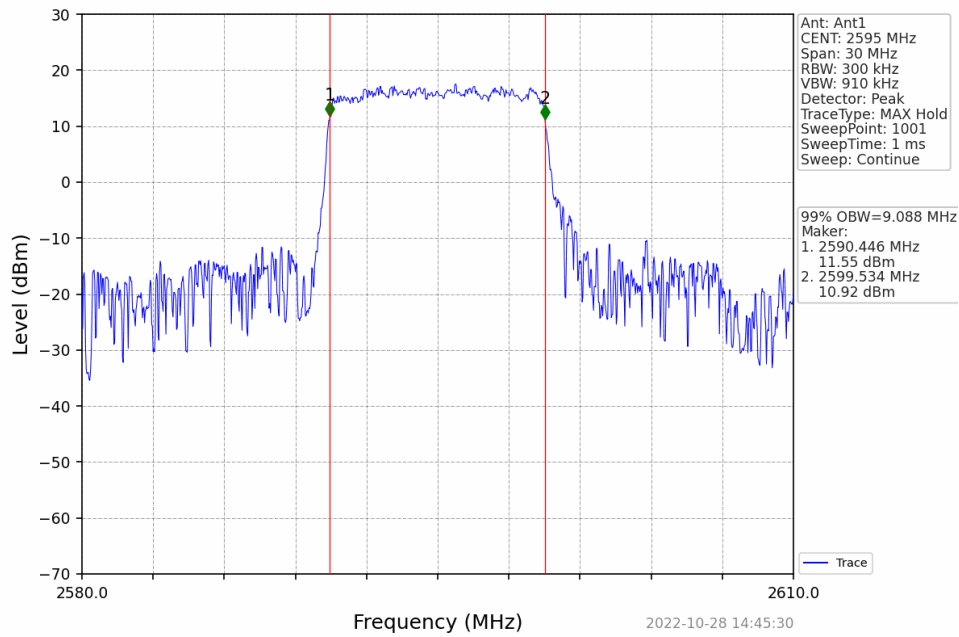


Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV

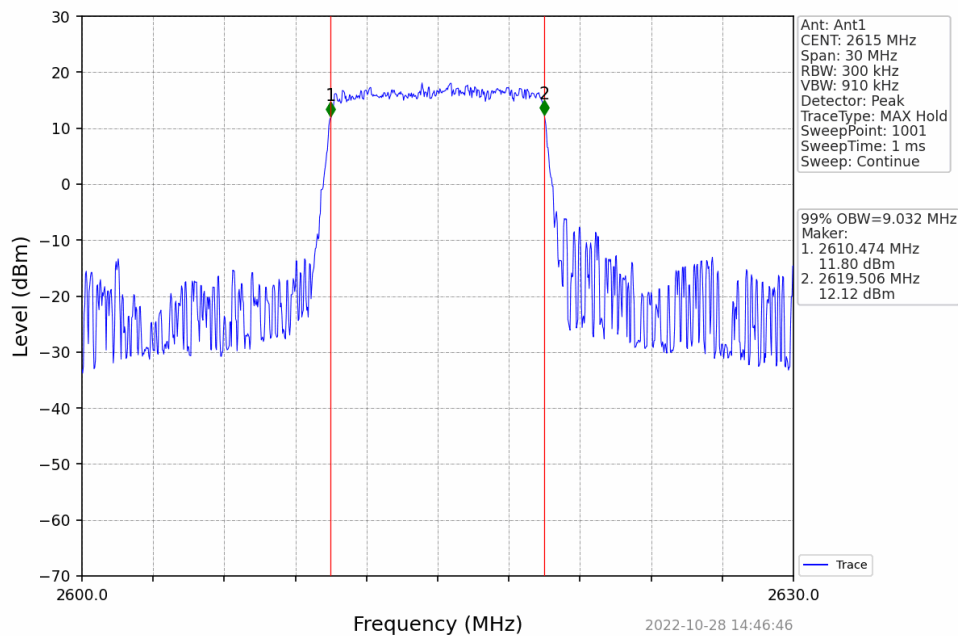


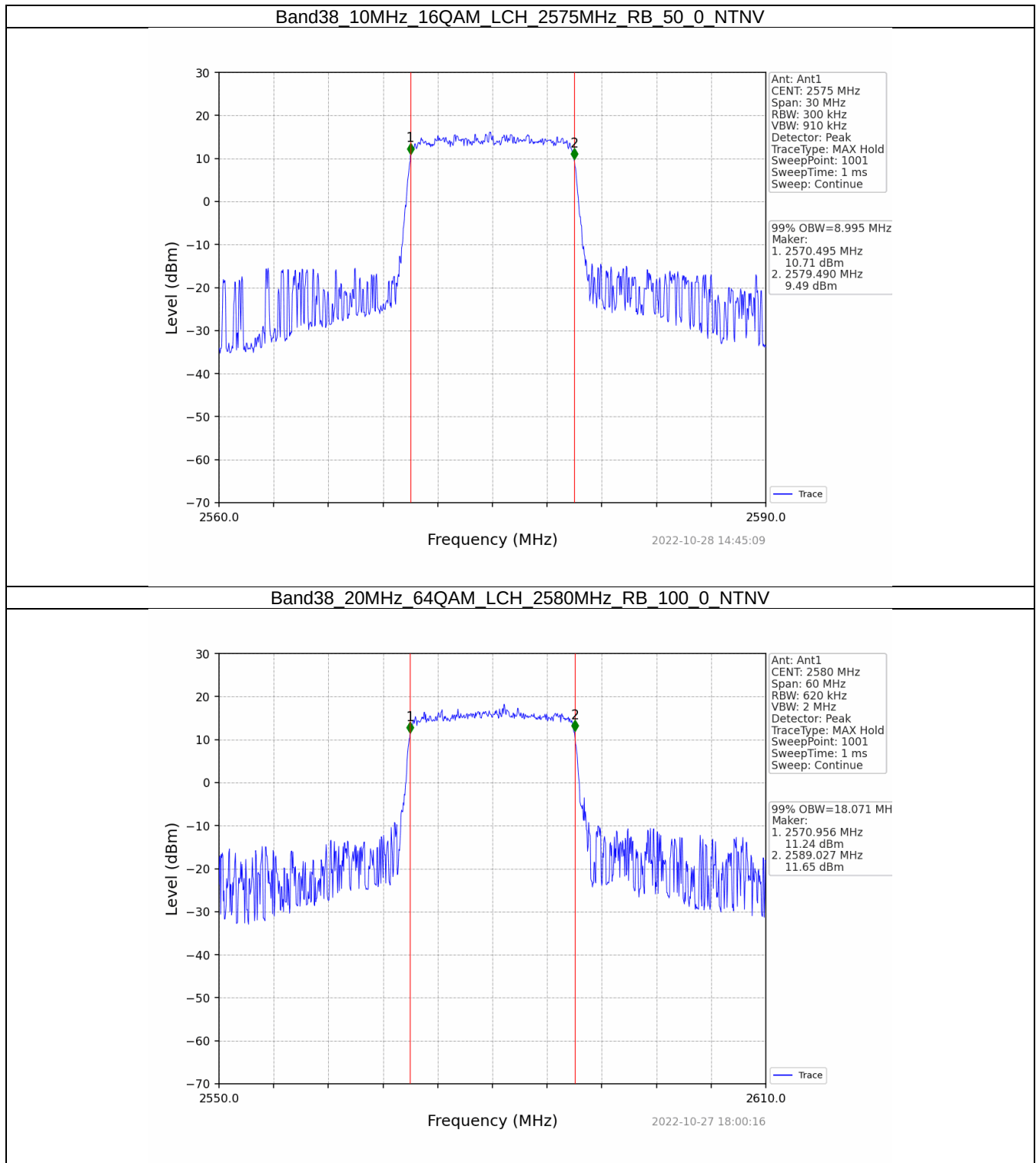


Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



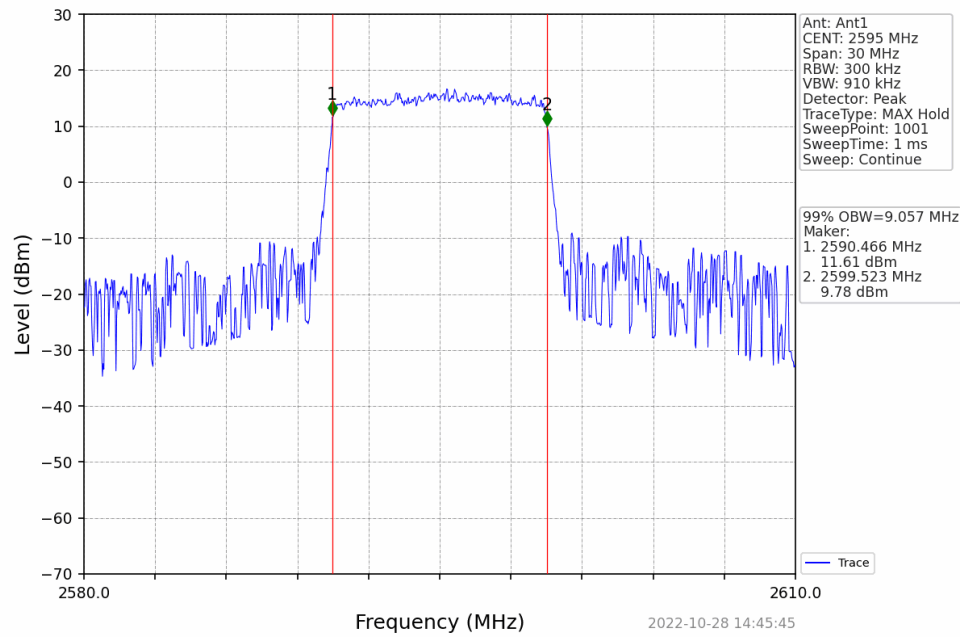
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



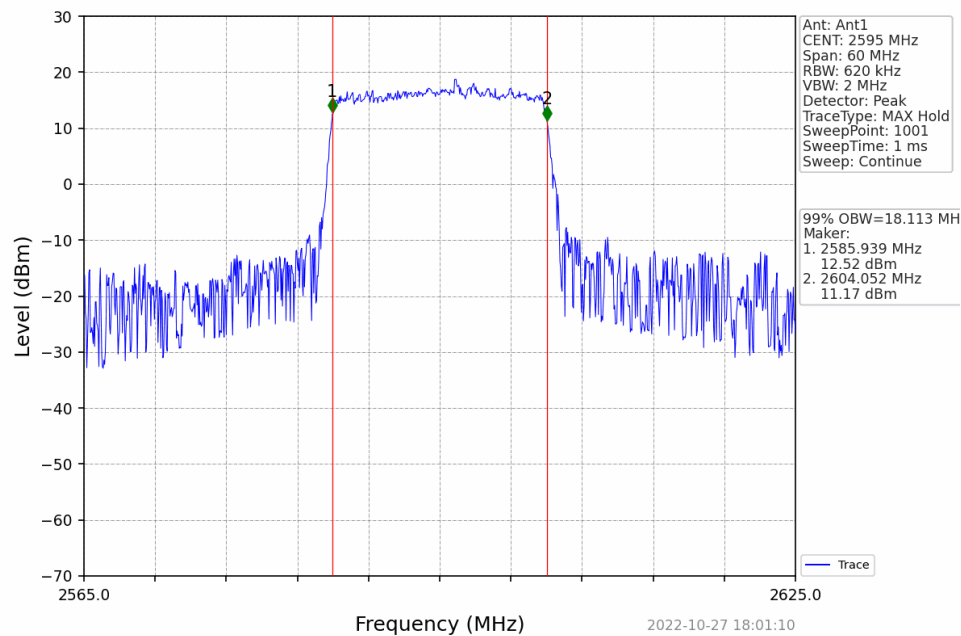




Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV

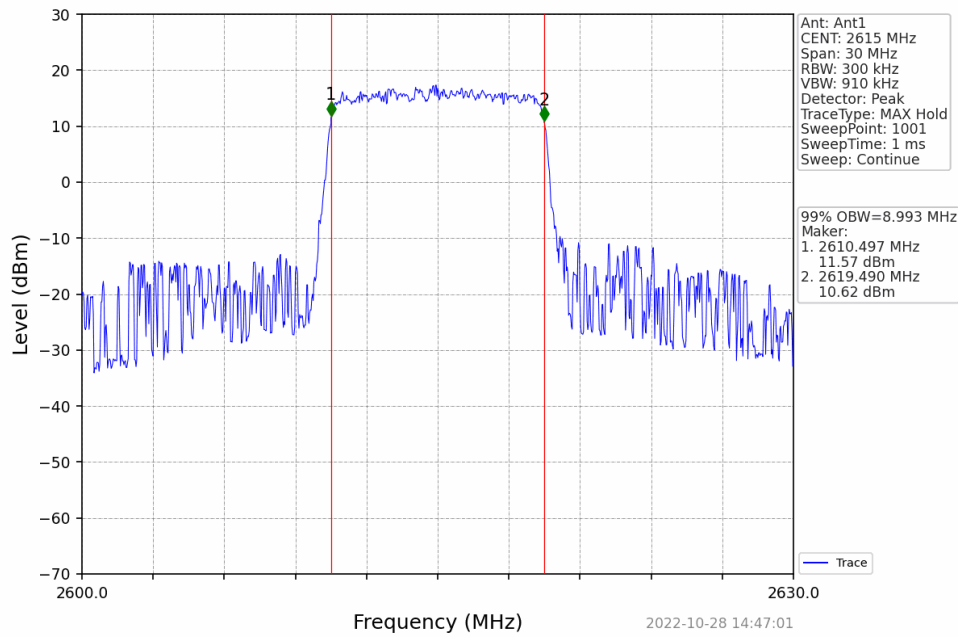


Band38_20MHz_64QAM_MCH_2595MHz_RB_100_0_NTNV

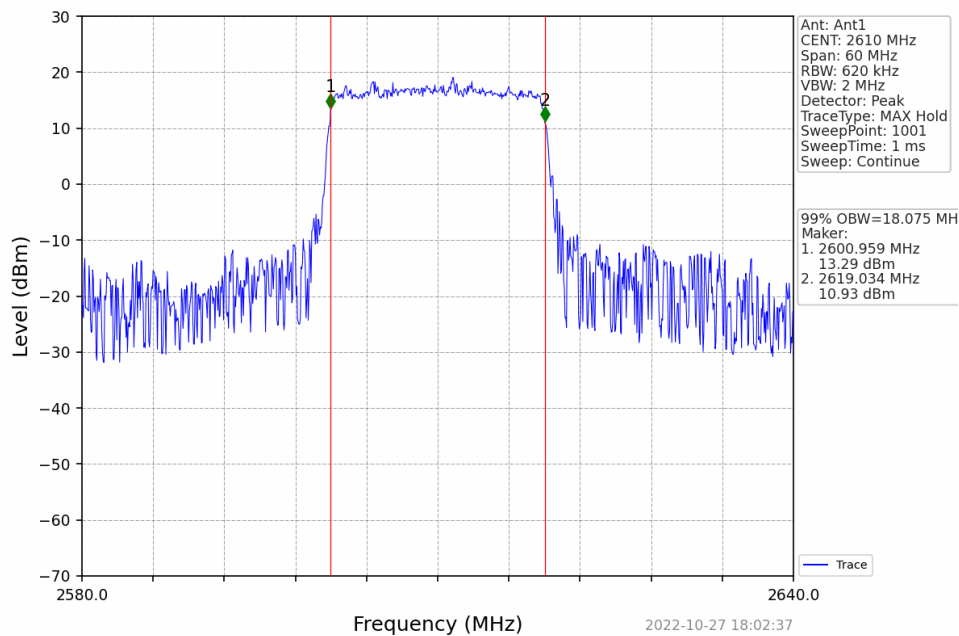




Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV

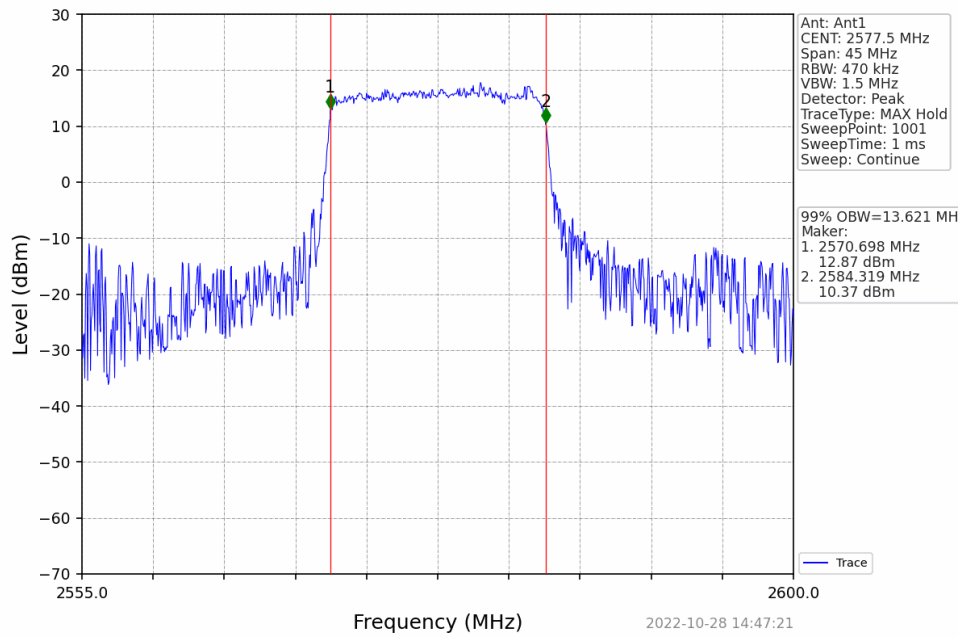


Band38_20MHz_64QAM_HCH_2610MHz_RB_100_0_NTNV

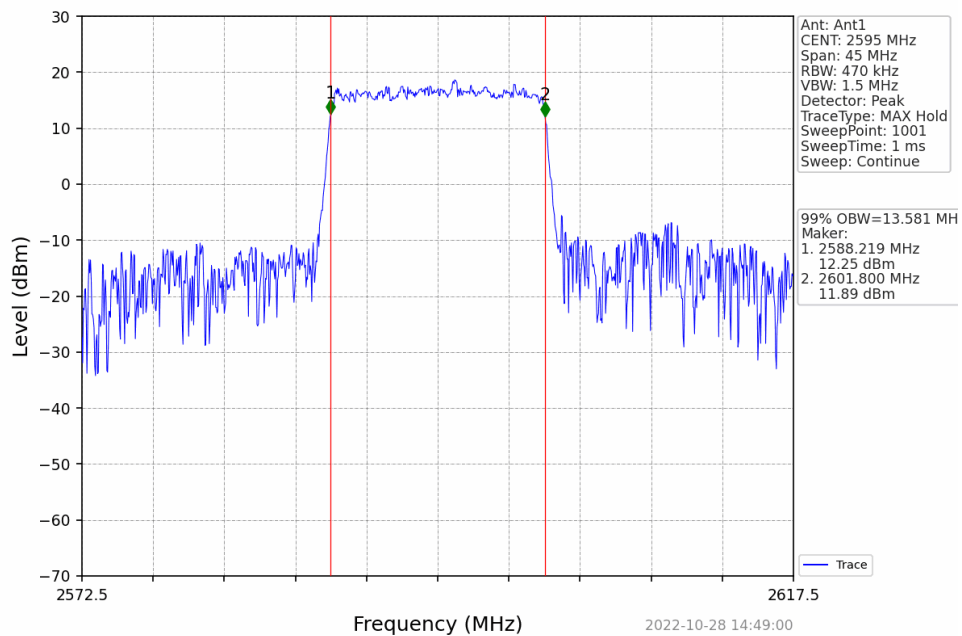




Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV

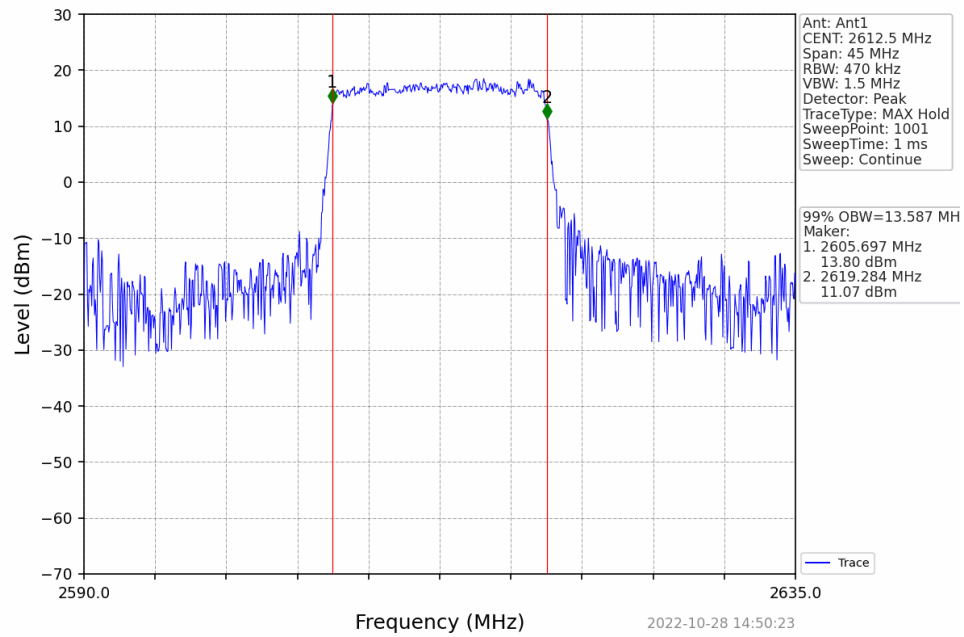


Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV

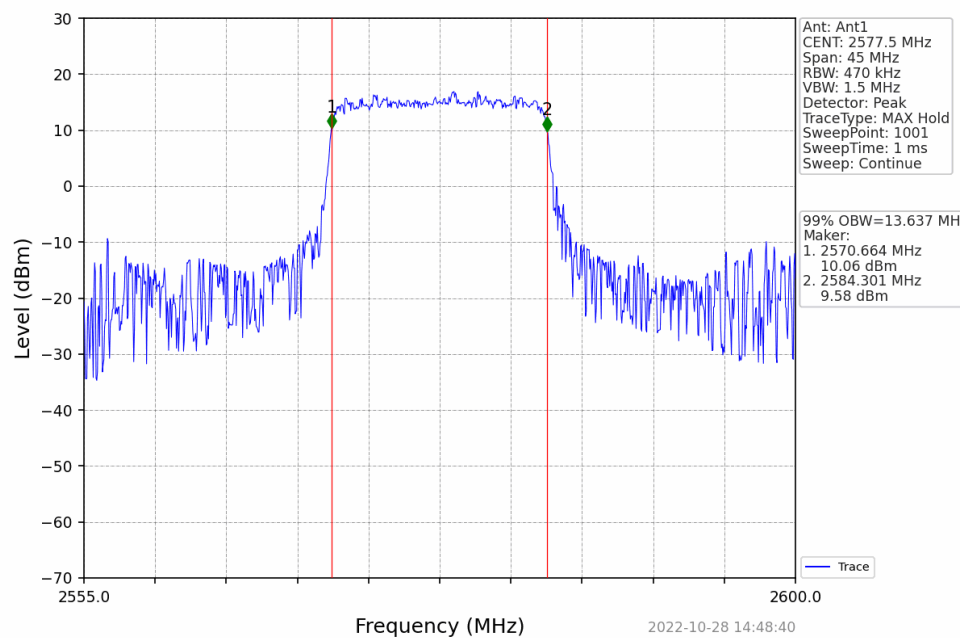




Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV

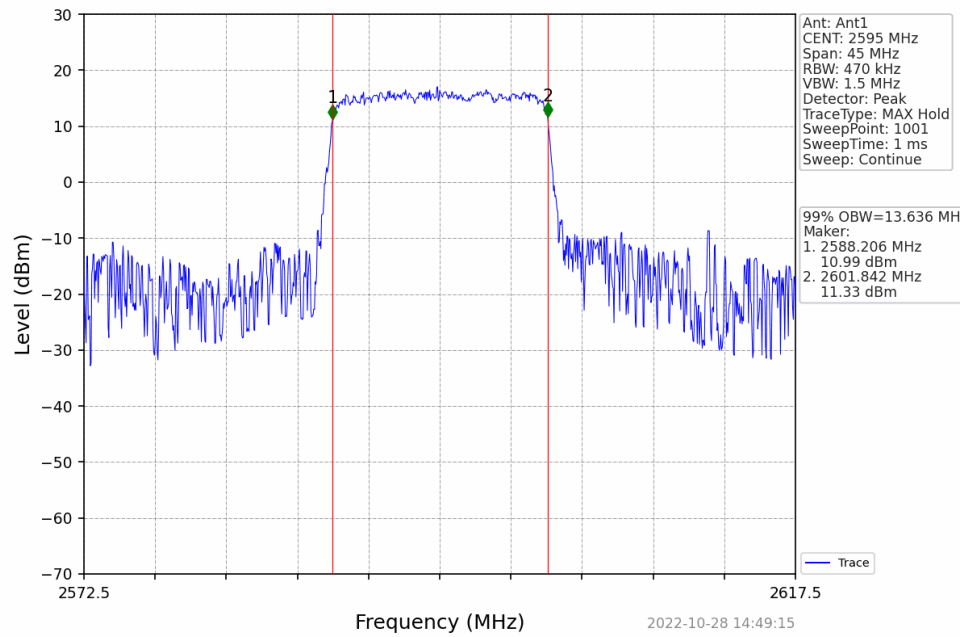


Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV

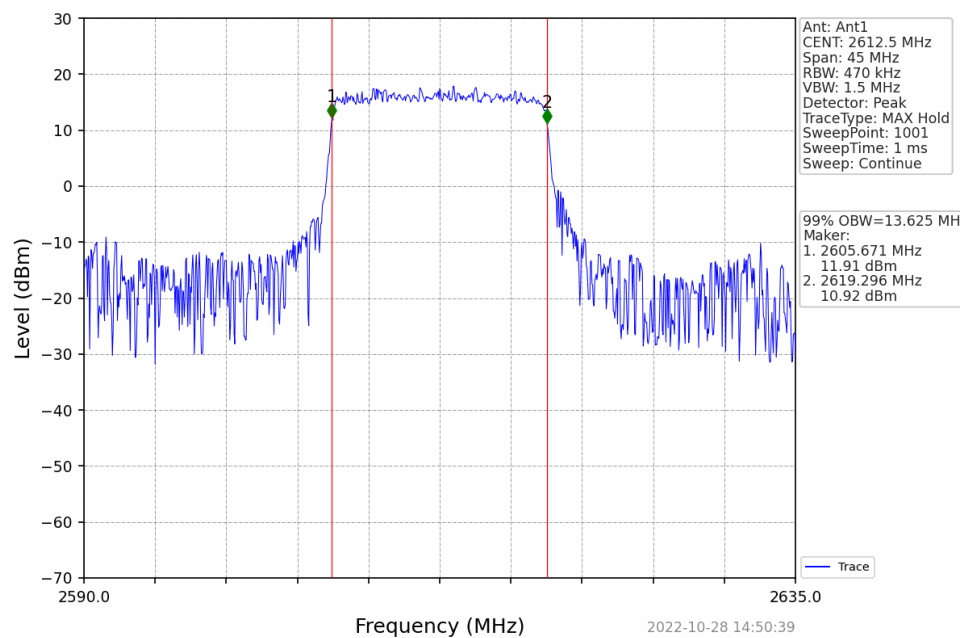


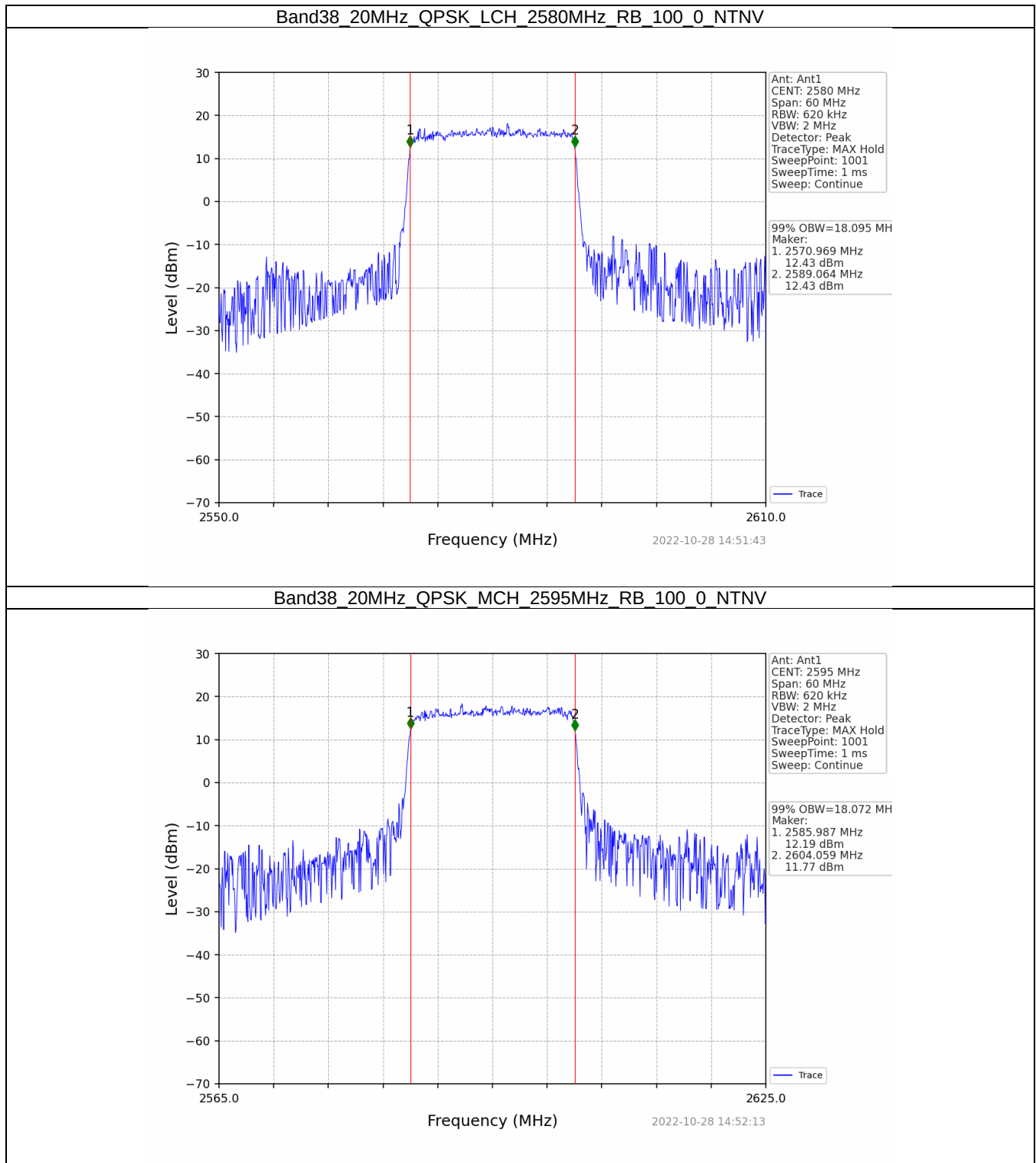


Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



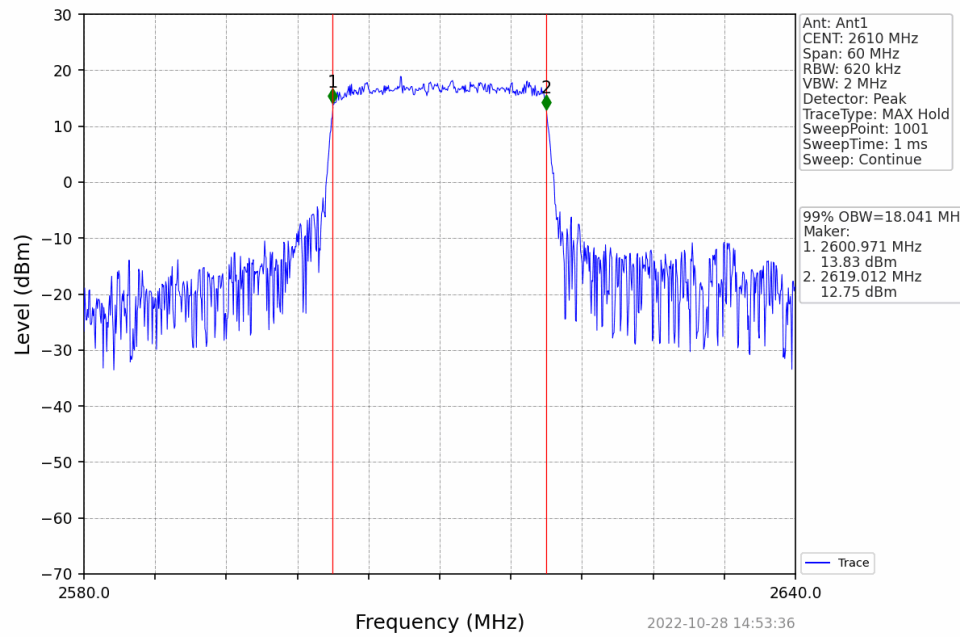
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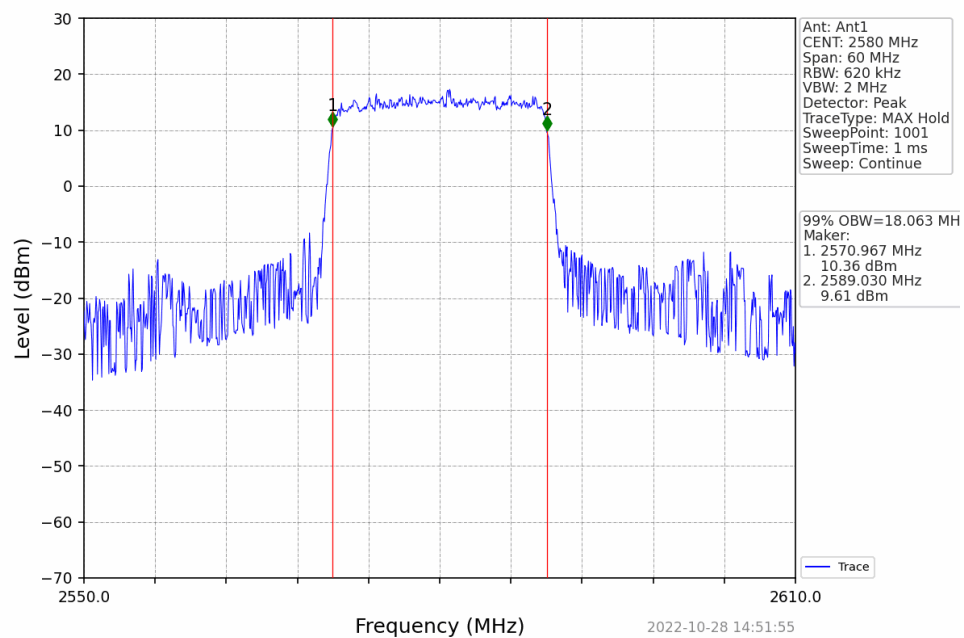




Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV

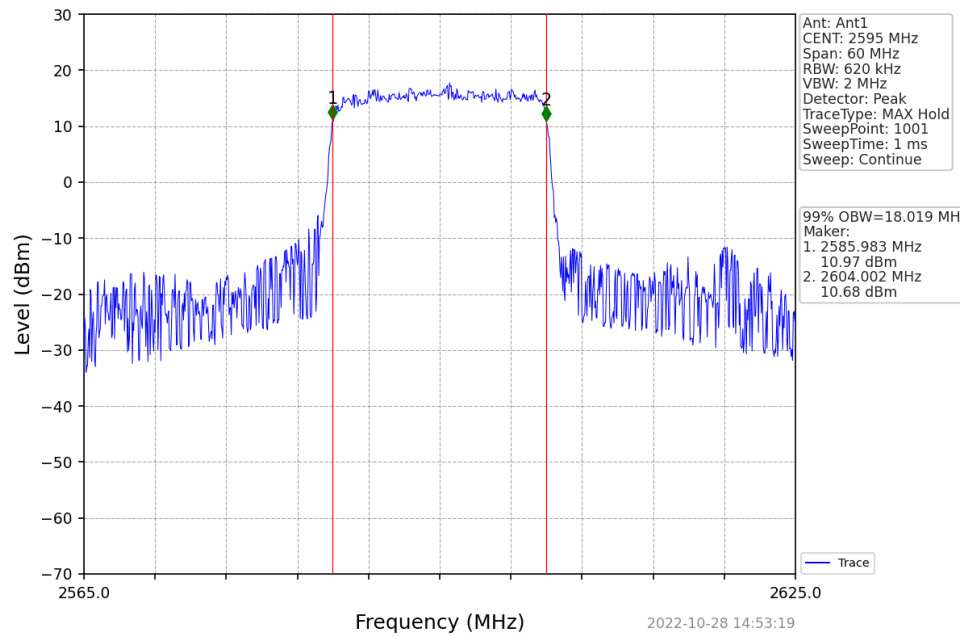


Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV

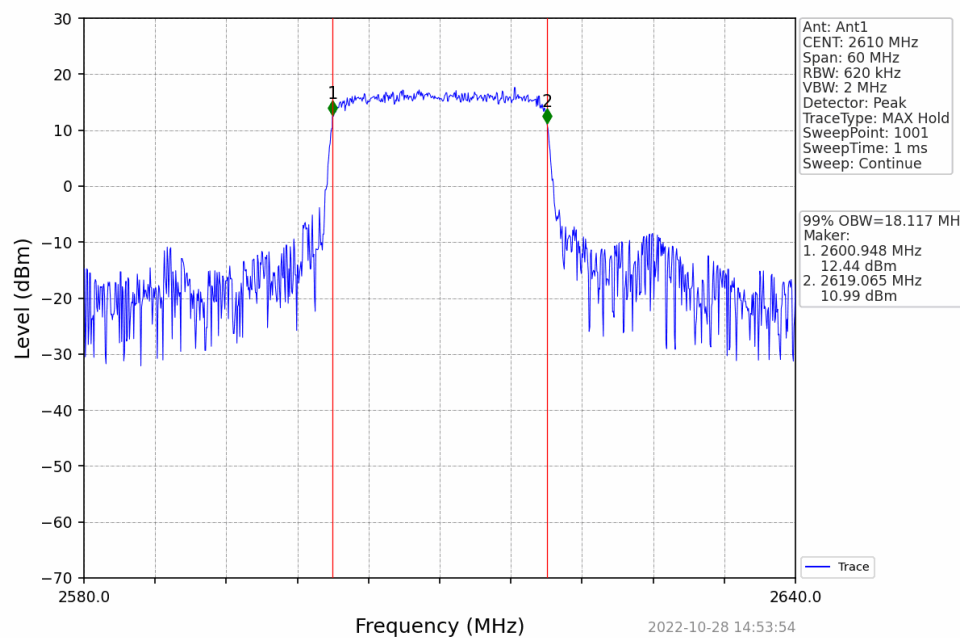




Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV





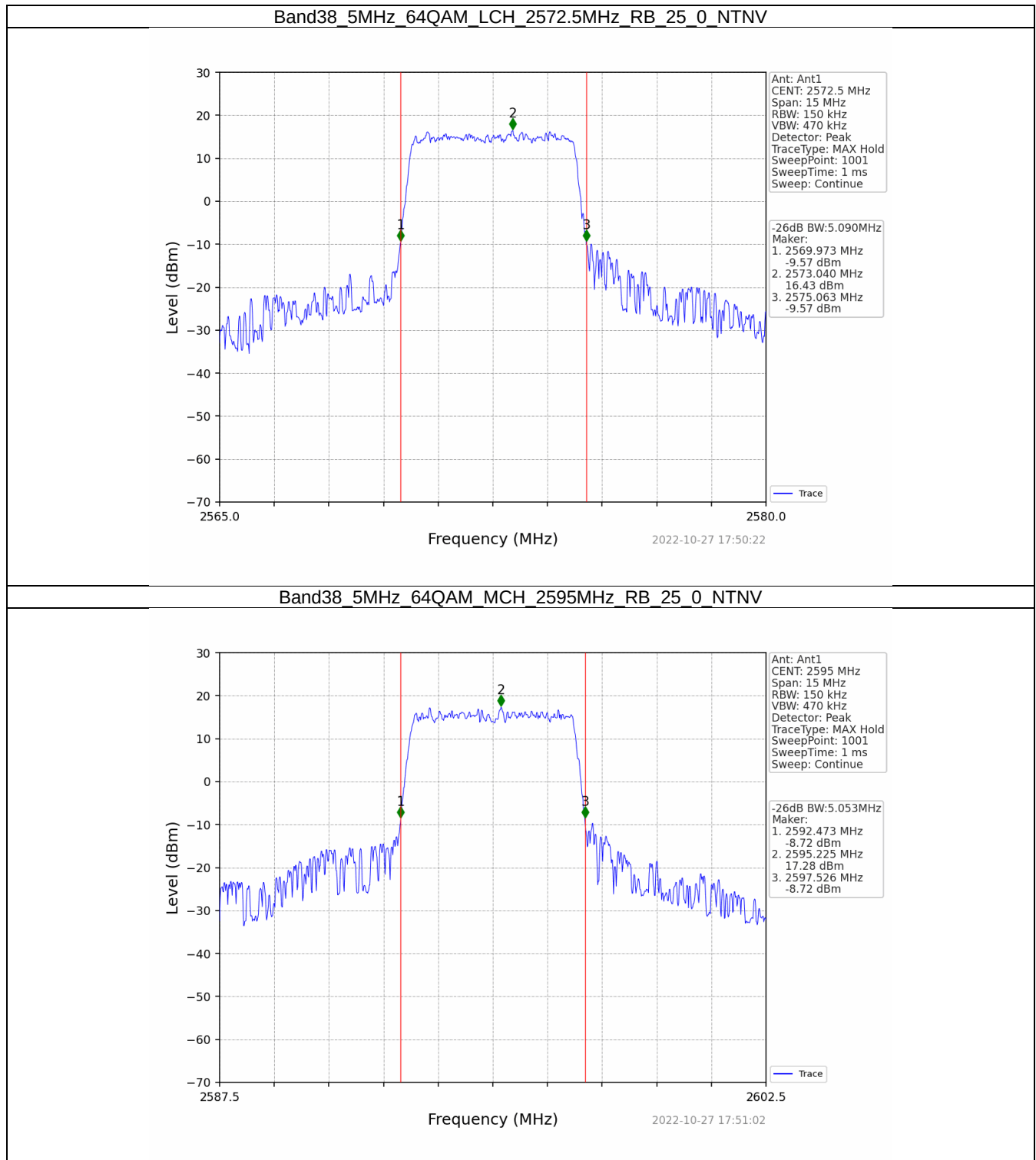
4.2 Band38_XDB

4.2.1 Test Result

Band: 38 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	64QAM	2572.5	25	0	5.090	Pass
		2595	25	0	5.053	Pass
		2617.5	25	0	5.101	Pass
10	64QAM	2575	50	0	10.126	Pass
		2595	50	0	10.282	Pass
		2615	50	0	10.144	Pass
15	64QAM	2577.5	75	0	16.565	Pass
5	QPSK	2572.5	25	0	5.037	Pass
15	64QAM	2595	75	0	17.361	Pass
5	QPSK	2595	25	0	5.190	Pass
		2617.5	25	0	5.022	Pass
15	64QAM	2612.5	75	0	17.422	Pass
5	16QAM	2572.5	25	0	5.239	Pass
		2595	25	0	5.064	Pass
		2617.5	25	0	5.468	Pass
10	QPSK	2575	50	0	11.144	Pass
		2595	50	0	10.640	Pass
		2615	50	0	11.001	Pass
	16QAM	2575	50	0	9.880	Pass
20	64QAM	2580	100	0	20.284	Pass
		2595	100	0	20.192	Pass
10	16QAM	2595	50	0	10.620	Pass
20	64QAM	2610	100	0	20.777	Pass
10	16QAM	2615	50	0	10.019	Pass
15	QPSK	2577.5	75	0	16.573	Pass
		2595	75	0	22.284	Pass
		2612.5	75	0	16.047	Pass
	16QAM	2577.5	75	0	16.680	Pass
		2595	75	0	24.799	Pass
20	QPSK	2612.5	75	0	16.591	Pass
		2580	100	0	19.996	Pass
		2595	100	0	21.585	Pass
	16QAM	2610	100	0	22.279	Pass
		2580	100	0	20.917	Pass
		2595	100	0	20.262	Pass
		2610	100	0	23.071	Pass

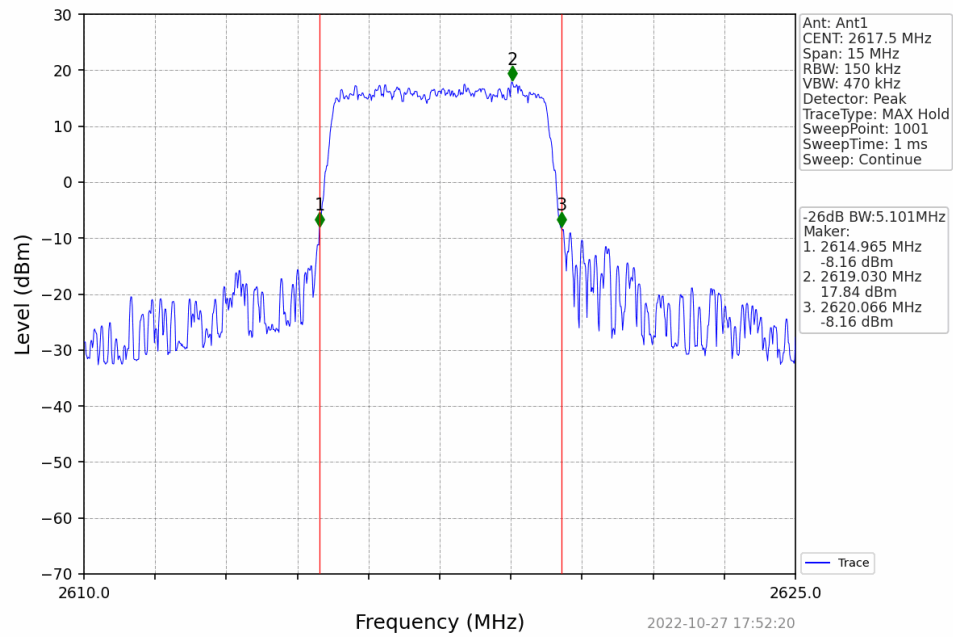


4.2.2 Test Graph

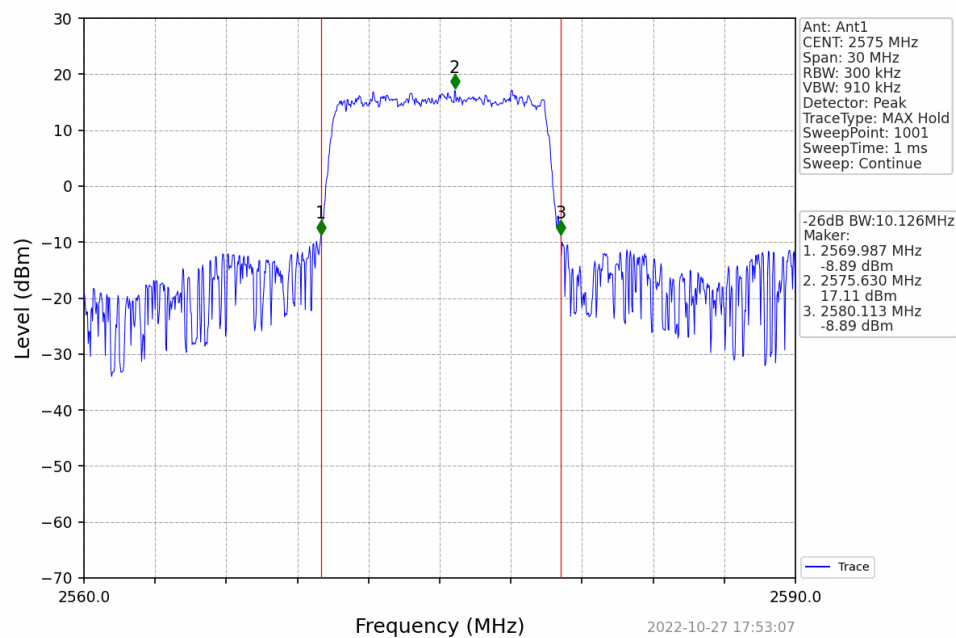




Band38_5MHz_64QAM_HCH_2617.5MHz_RB_25_0_NTNV

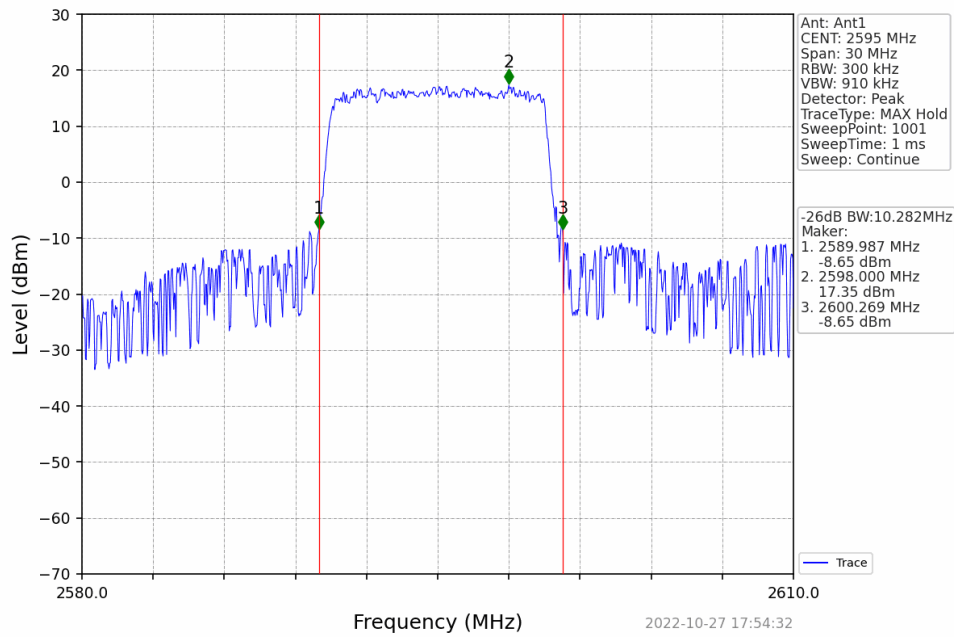


Band38_10MHz_64QAM_LCH_2575MHz_RB_50_0_NTNV

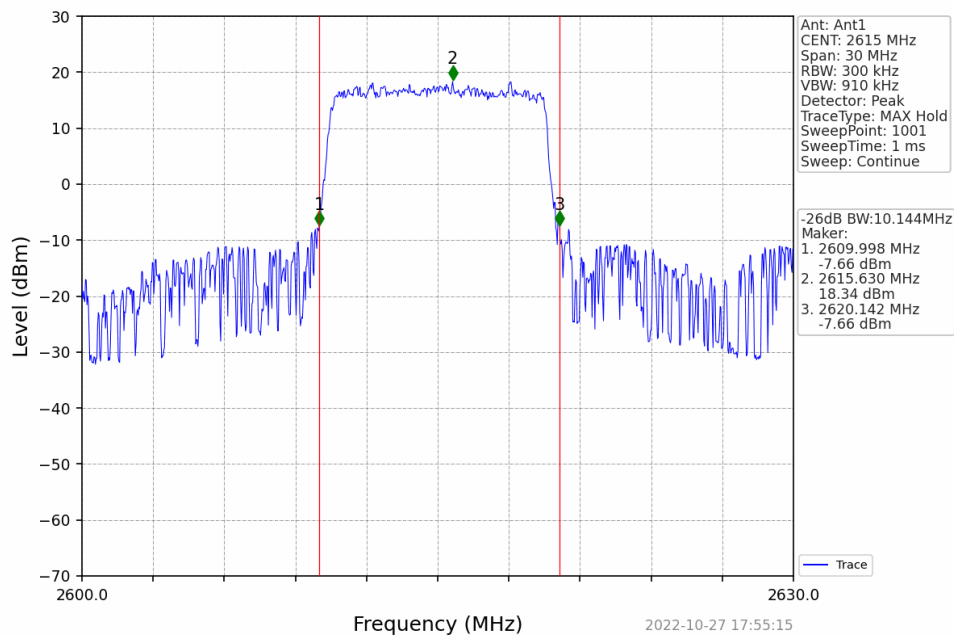




Band38_10MHz_64QAM_MCH_2595MHz_RB_50_0_NTNV

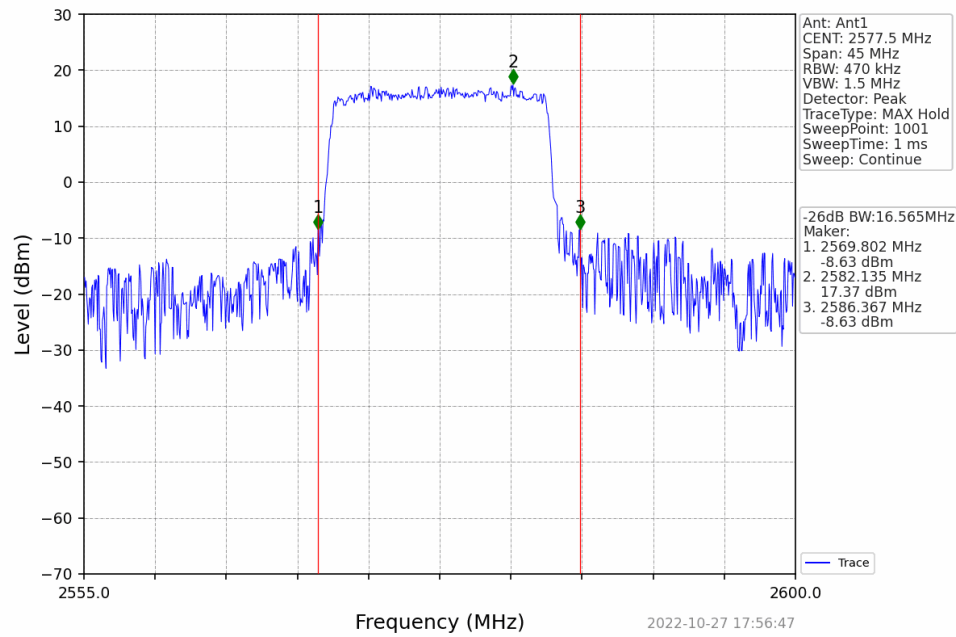


Band38_10MHz_64QAM_HCH_2615MHz_RB_50_0_NTNV

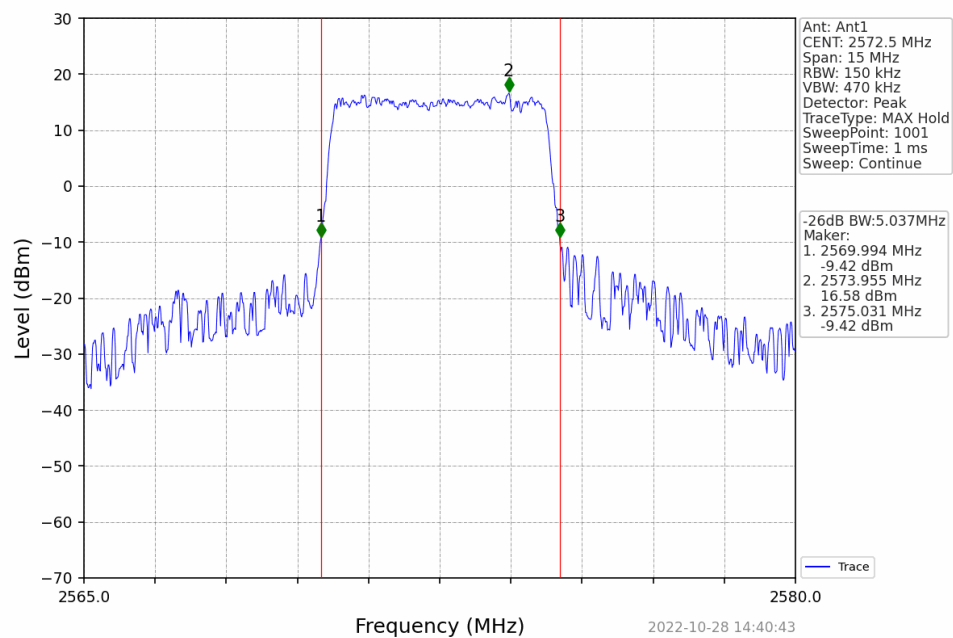




Band38_15MHz_64QAM_LCH_2577.5MHz_RB_75_0_NTNV

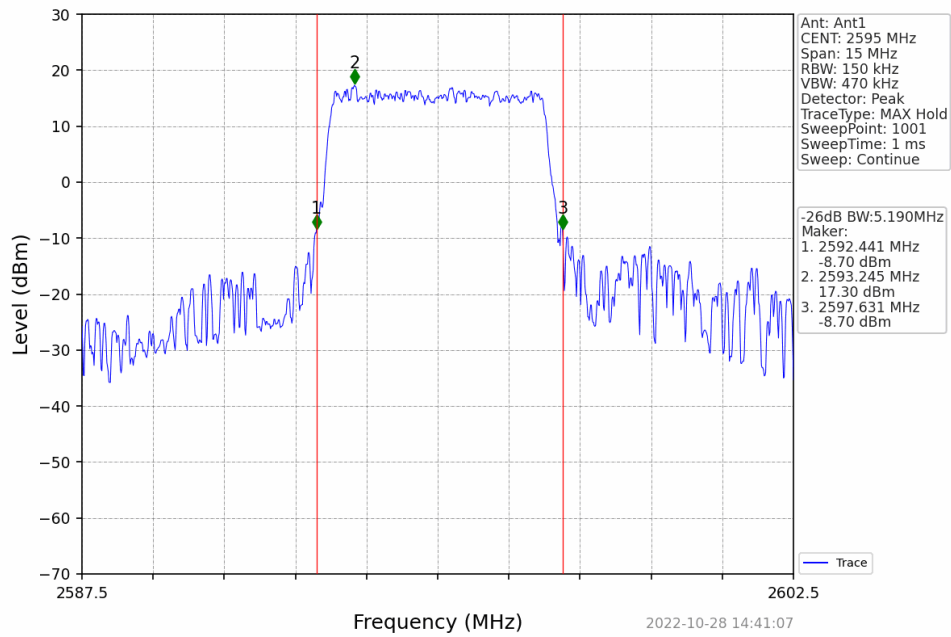


Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV

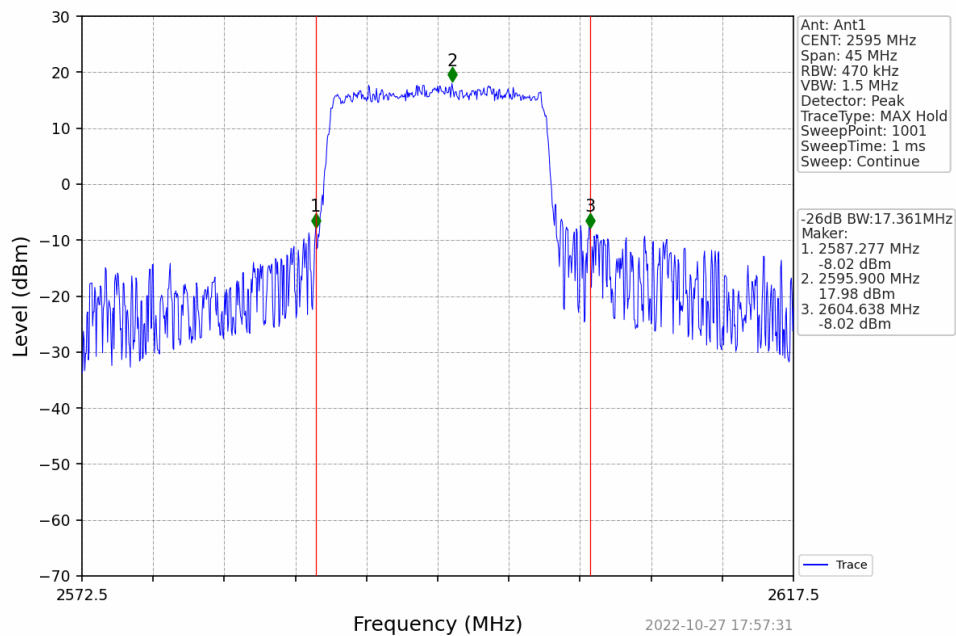




Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV

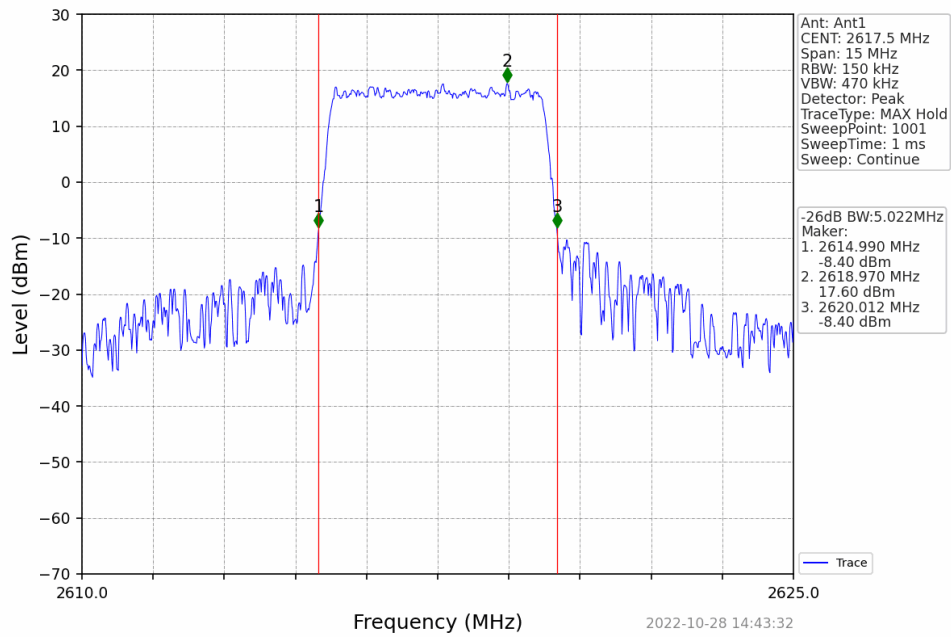


Band38_15MHz_64QAM_MCH_2595MHz_RB_75_0_NTNV

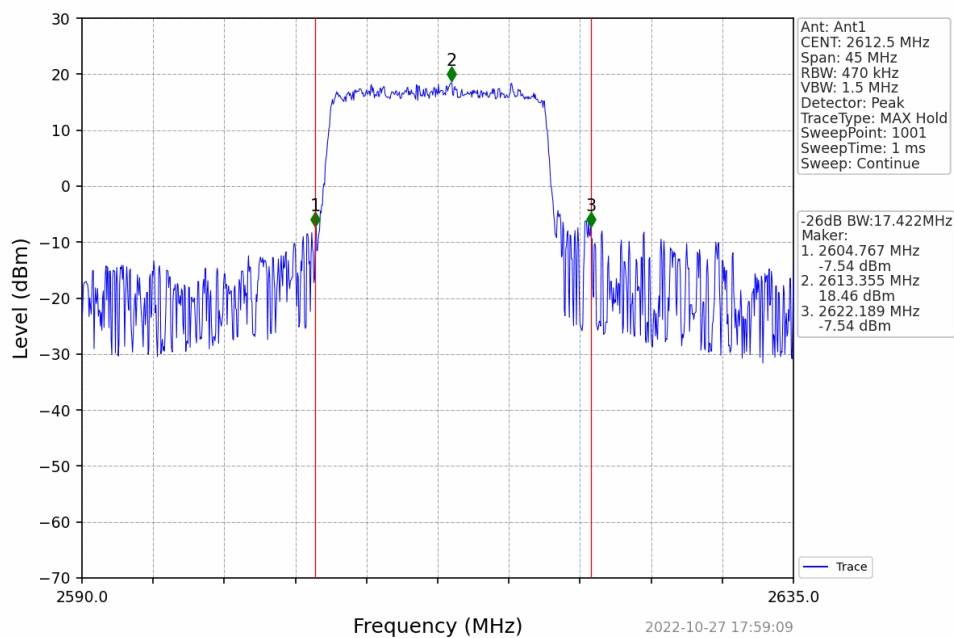




Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV

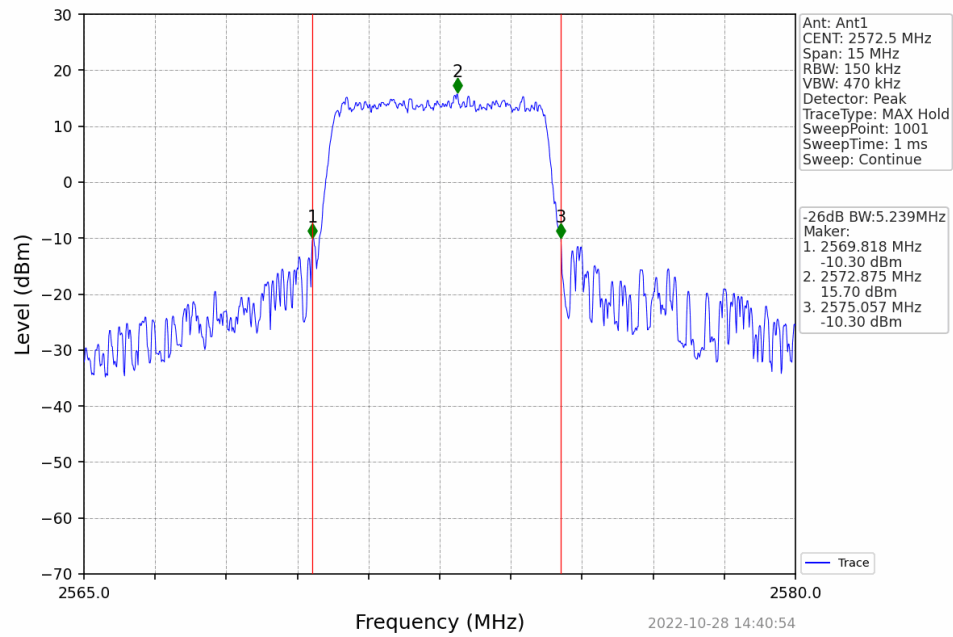


Band38_15MHz_64QAM_HCH_2612.5MHz_RB_75_0_NTNV

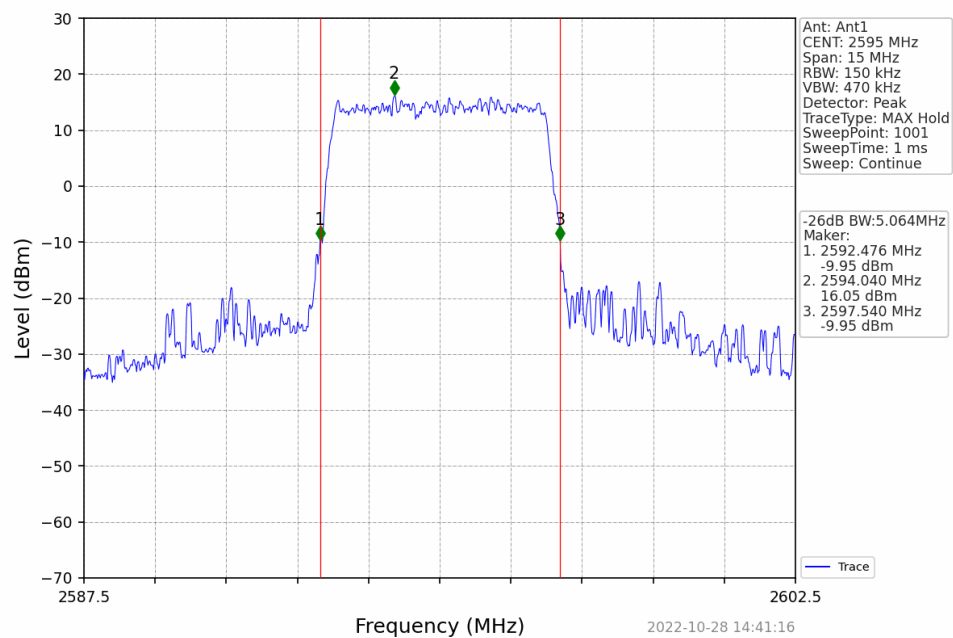




Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV

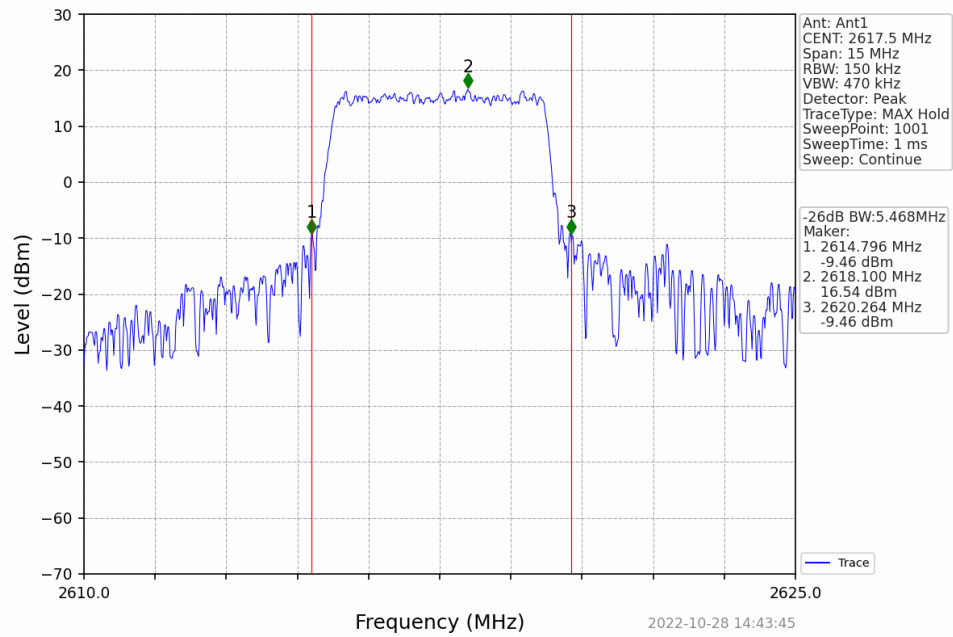


Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV

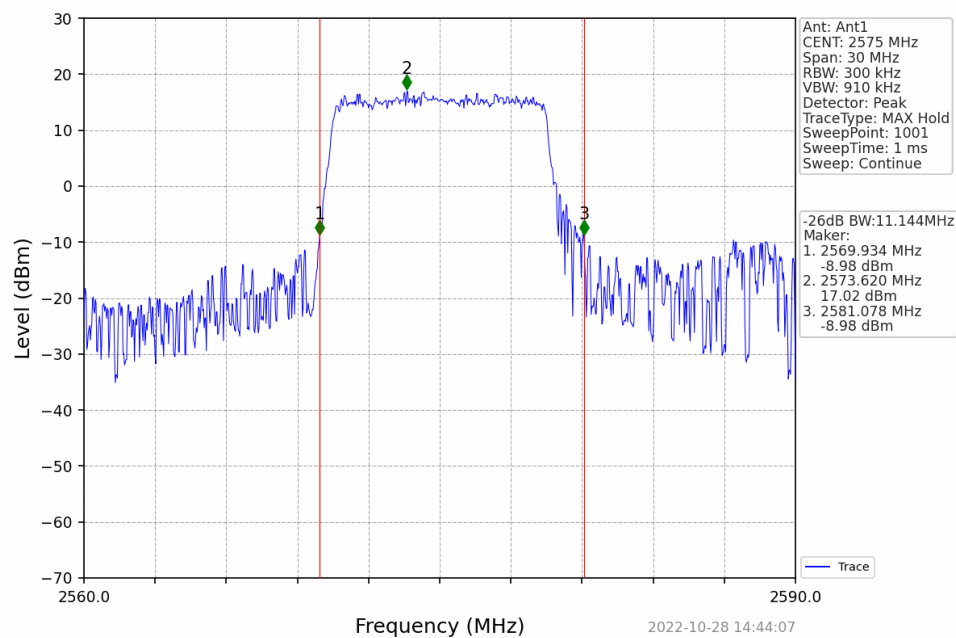




Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV

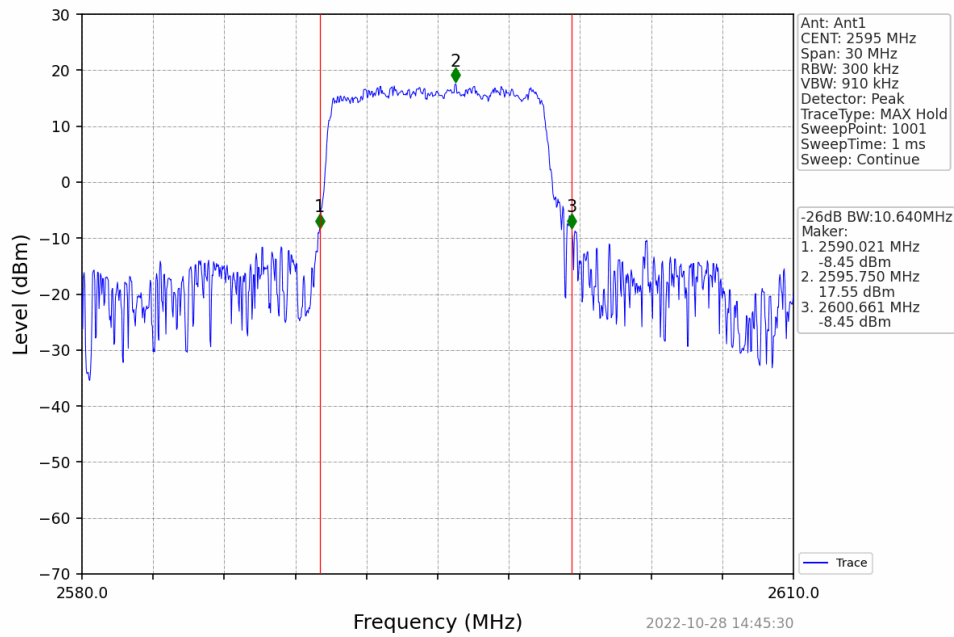


Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV

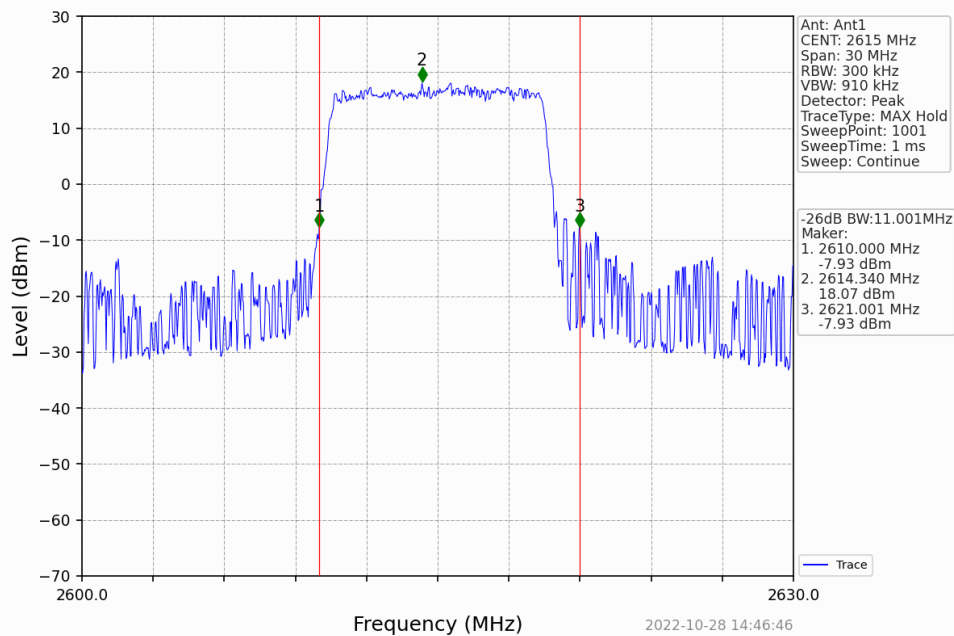




Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV

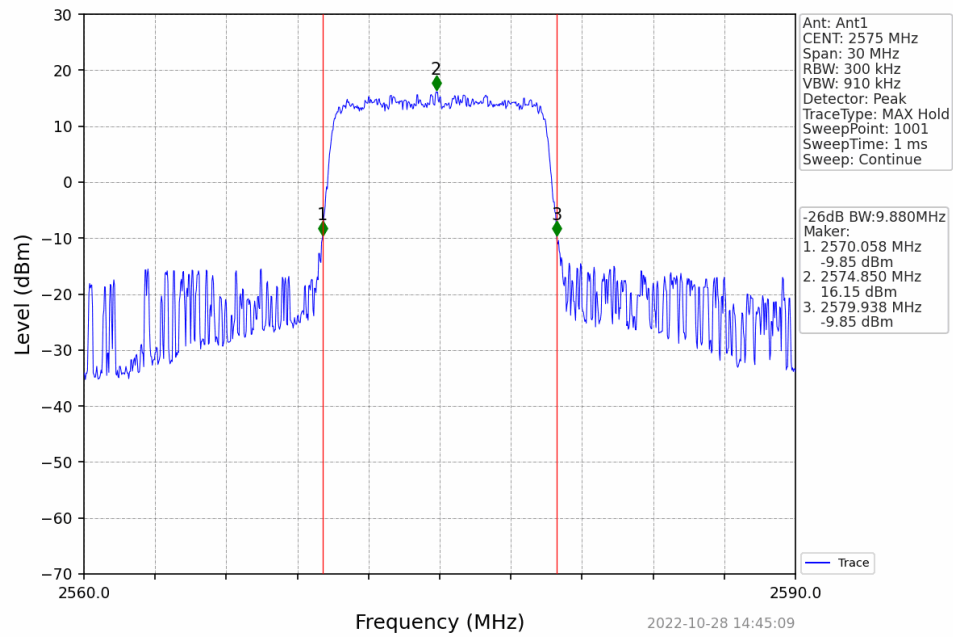


Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV

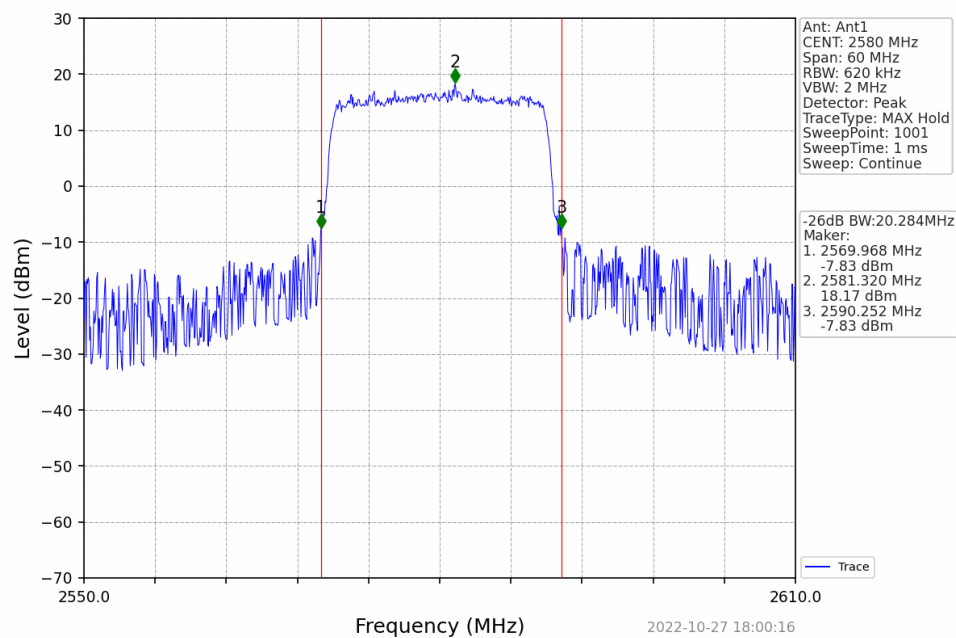




Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV

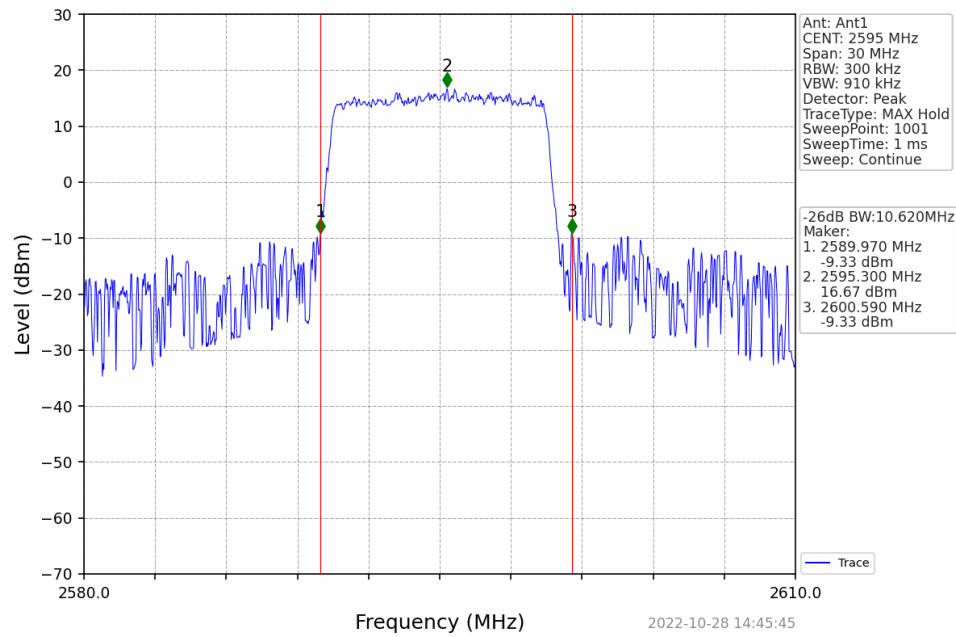


Band38_20MHz_64QAM_LCH_2580MHz_RB_100_0_NTNV





Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



Band38_20MHz_64QAM_MCH_2595MHz_RB_100_0_NTNV

