



Appendix I for SHCR2208001794CO-LTE Band 12

1. Effective (Isotropic) Radiated Power Output Data

1.1 B12_1.4MHz_ERP

1.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	22.20	0.40	20.45	<=34.77	Pass
			2	22.13	0.40	20.38	<=34.77	Pass
			5	22.29	0.40	20.54	<=34.77	Pass
		3	0	22.02	0.40	20.27	<=34.77	Pass
			2	22.13	0.40	20.38	<=34.77	Pass
			3	22.25	0.40	20.50	<=34.77	Pass
		6	0	21.19	0.40	19.44	<=34.77	Pass
	707.5	1	0	22.30	0.40	20.55	<=34.77	Pass
			2	22.49	0.40	20.74	<=34.77	Pass
			5	22.46	0.40	20.71	<=34.77	Pass
		3	0	22.41	0.40	20.66	<=34.77	Pass
			2	22.45	0.40	20.70	<=34.77	Pass
			3	22.55	0.40	20.80	<=34.77	Pass
		6	0	21.52	0.40	19.77	<=34.77	Pass
	715.3	1	0	22.38	0.40	20.63	<=34.77	Pass
			2	22.49	0.40	20.74	<=34.77	Pass
			5	22.54	0.40	20.79	<=34.77	Pass
16QAM	699.7	1	0	21.21	0.40	19.46	<=34.77	Pass
			2	21.71	0.40	19.96	<=34.77	Pass
			5	21.77	0.40	20.02	<=34.77	Pass
		3	0	21.21	0.40	19.46	<=34.77	Pass
			2	21.21	0.40	19.46	<=34.77	Pass
			3	21.38	0.40	19.63	<=34.77	Pass
		6	0	20.25	0.40	18.50	<=34.77	Pass
	707.5	1	0	21.47	0.40	19.72	<=34.77	Pass
			2	21.58	0.40	19.83	<=34.77	Pass
			5	21.69	0.40	19.94	<=34.77	Pass
		3	0	21.62	0.40	19.87	<=34.77	Pass
			2	21.62	0.40	19.87	<=34.77	Pass
			3	21.63	0.40	19.88	<=34.77	Pass
		6	0	20.52	0.40	18.77	<=34.77	Pass
	715.3	1	0	20.94	0.40	19.19	<=34.77	Pass
			2	21.55	0.40	19.80	<=34.77	Pass
			5	21.58	0.40	19.83	<=34.77	Pass
		3	0	21.13	0.40	19.38	<=34.77	Pass
			2	21.36	0.40	19.61	<=34.77	Pass
			3	21.32	0.40	19.57	<=34.77	Pass
		6	0	20.43	0.40	18.68	<=34.77	Pass
64QAM	699.7	1	0	21.12	0.40	19.37	<=34.77	Pass



	707.5	3	2	21.52	0.40	19.77	<=34.77	Pass
			5	21.15	0.40	19.40	<=34.77	Pass
			0	21.03	0.40	19.28	<=34.77	Pass
		6	2	21.57	0.40	19.82	<=34.77	Pass
			3	21.62	0.40	19.87	<=34.77	Pass
			0	20.21	0.40	18.46	<=34.77	Pass
		1	0	21.55	0.40	19.80	<=34.77	Pass
			2	21.81	0.40	20.06	<=34.77	Pass
			5	21.34	0.40	19.59	<=34.77	Pass
			0	21.36	0.40	19.61	<=34.77	Pass
			2	21.31	0.40	19.56	<=34.77	Pass
			3	21.16	0.40	19.41	<=34.77	Pass
	715.3	3	0	20.30	0.40	18.55	<=34.77	Pass
			0	21.50	0.40	19.75	<=34.77	Pass
			2	21.72	0.40	19.97	<=34.77	Pass
			5	21.89	0.40	20.14	<=34.77	Pass
			0	21.57	0.40	19.82	<=34.77	Pass
			2	21.43	0.40	19.68	<=34.77	Pass
		6	3	21.44	0.40	19.69	<=34.77	Pass
			0	20.53	0.40	18.78	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.2 B12_3MHz_ERP

1.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	22.04	0.40	20.29	<=34.77	Pass
			7	22.08	0.40	20.33	<=34.77	Pass
			14	22.16	0.40	20.41	<=34.77	Pass
		8	0	21.17	0.40	19.42	<=34.77	Pass
			4	21.20	0.40	19.45	<=34.77	Pass
			7	21.25	0.40	19.50	<=34.77	Pass
		15	0	21.15	0.40	19.40	<=34.77	Pass
	707.5	1	0	22.32	0.40	20.57	<=34.77	Pass
			7	22.53	0.40	20.78	<=34.77	Pass
			14	22.41	0.40	20.66	<=34.77	Pass
		8	0	21.47	0.40	19.72	<=34.77	Pass
			4	21.52	0.40	19.77	<=34.77	Pass
			7	21.54	0.40	19.79	<=34.77	Pass
		15	0	21.47	0.40	19.72	<=34.77	Pass
	714.5	1	0	22.37	0.40	20.62	<=34.77	Pass
			7	22.42	0.40	20.67	<=34.77	Pass
			14	22.43	0.40	20.68	<=34.77	Pass
		8	0	21.40	0.40	19.65	<=34.77	Pass
			4	21.38	0.40	19.63	<=34.77	Pass
			7	21.40	0.40	19.65	<=34.77	Pass
		15	0	21.41	0.40	19.66	<=34.77	Pass
16QAM	700.5	1	0	21.44	0.40	19.69	<=34.77	Pass
			7	21.67	0.40	19.92	<=34.77	Pass
			14	21.44	0.40	19.69	<=34.77	Pass
		8	0	20.33	0.40	18.58	<=34.77	Pass



	707.5	15	4	20.50	0.40	18.75	<=34.77	Pass		
			7	20.44	0.40	18.69	<=34.77	Pass		
			0	20.13	0.40	18.38	<=34.77	Pass		
		1	0	21.69	0.40	19.94	<=34.77	Pass		
			7	21.70	0.40	19.95	<=34.77	Pass		
			14	21.47	0.40	19.72	<=34.77	Pass		
			8	0	20.28	0.40	18.53	<=34.77	Pass	
				4	20.32	0.40	18.57	<=34.77	Pass	
				7	20.32	0.40	18.57	<=34.77	Pass	
	15	0	20.50	0.40	18.75	<=34.77	Pass			
	714.5	1	0	21.19	0.40	19.44	<=34.77	Pass		
			7	21.37	0.40	19.62	<=34.77	Pass		
			14	21.36	0.40	19.61	<=34.77	Pass		
		8	0	20.39	0.40	18.64	<=34.77	Pass		
			4	20.36	0.40	18.61	<=34.77	Pass		
			7	20.48	0.40	18.73	<=34.77	Pass		
		15	0	20.56	0.40	18.81	<=34.77	Pass		
		64QAM	700.5	1	0	21.39	0.40	19.64	<=34.77	Pass
					7	21.88	0.40	20.13	<=34.77	Pass
	14				21.99	0.40	20.24	<=34.77	Pass	
	8			0	20.20	0.40	18.45	<=34.77	Pass	
				4	20.31	0.40	18.56	<=34.77	Pass	
				7	20.28	0.40	18.53	<=34.77	Pass	
	15			0	20.15	0.40	18.40	<=34.77	Pass	
707.5	1			0	21.43	0.40	19.68	<=34.77	Pass	
				7	21.75	0.40	20.00	<=34.77	Pass	
			14	21.63	0.40	19.88	<=34.77	Pass		
	8		0	20.45	0.40	18.70	<=34.77	Pass		
			4	20.40	0.40	18.65	<=34.77	Pass		
			7	20.53	0.40	18.78	<=34.77	Pass		
15	0		20.31	0.40	18.56	<=34.77	Pass			
714.5	1		0	21.55	0.40	19.80	<=34.77	Pass		
			7	21.77	0.40	20.02	<=34.77	Pass		
			14	21.60	0.40	19.85	<=34.77	Pass		
	8		0	20.57	0.40	18.82	<=34.77	Pass		
			4	20.57	0.40	18.82	<=34.77	Pass		
			7	20.53	0.40	18.78	<=34.77	Pass		
	15		0	20.48	0.40	18.73	<=34.77	Pass		
	Note1: ERP=Conducted Power+Antenna Gain-2.15									

1.3 B12_5MHz_ERP

1.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	21.96	0.40	20.21	<=34.77	Pass
			13	22.21	0.40	20.46	<=34.77	Pass
			24	22.51	0.40	20.76	<=34.77	Pass
		12	0	21.15	0.40	19.40	<=34.77	Pass
			6	21.27	0.40	19.52	<=34.77	Pass
			13	21.12	0.40	19.37	<=34.77	Pass
		25	0	21.15	0.40	19.40	<=34.77	Pass



	707.5	1	0	22.00	0.40	20.25	<=34.77	Pass
			13	22.38	0.40	20.63	<=34.77	Pass
			24	21.99	0.40	20.24	<=34.77	Pass
		12	0	21.29	0.40	19.54	<=34.77	Pass
			6	21.49	0.40	19.74	<=34.77	Pass
			13	21.35	0.40	19.60	<=34.77	Pass
		25	0	21.39	0.40	19.64	<=34.77	Pass
	713.5	1	0	22.09	0.40	20.34	<=34.77	Pass
			13	22.53	0.40	20.78	<=34.77	Pass
			24	22.53	0.40	20.78	<=34.77	Pass
		12	0	21.40	0.40	19.65	<=34.77	Pass
			6	21.47	0.40	19.72	<=34.77	Pass
			13	21.41	0.40	19.66	<=34.77	Pass
		25	0	21.42	0.40	19.67	<=34.77	Pass
16QAM	701.5	1	0	20.49	0.40	18.74	<=34.77	Pass
			13	20.74	0.40	18.99	<=34.77	Pass
			24	20.55	0.40	18.80	<=34.77	Pass
		12	0	19.99	0.40	18.24	<=34.77	Pass
			6	20.11	0.40	18.36	<=34.77	Pass
			13	20.15	0.40	18.40	<=34.77	Pass
		25	0	20.22	0.40	18.47	<=34.77	Pass
	707.5	1	0	21.46	0.40	19.71	<=34.77	Pass
			13	21.63	0.40	19.88	<=34.77	Pass
			24	21.36	0.40	19.61	<=34.77	Pass
		12	0	20.26	0.40	18.51	<=34.77	Pass
			6	20.15	0.40	18.40	<=34.77	Pass
			13	20.31	0.40	18.56	<=34.77	Pass
		25	0	20.39	0.40	18.64	<=34.77	Pass
	713.5	1	0	20.86	0.40	19.11	<=34.77	Pass
			13	21.40	0.40	19.65	<=34.77	Pass
			24	21.28	0.40	19.53	<=34.77	Pass
		12	0	20.00	0.40	18.25	<=34.77	Pass
			6	20.48	0.40	18.73	<=34.77	Pass
			13	20.26	0.40	18.51	<=34.77	Pass
		25	0	20.45	0.40	18.70	<=34.77	Pass
64QAM	701.5	1	0	20.95	0.40	19.20	<=34.77	Pass
			13	21.12	0.40	19.37	<=34.77	Pass
			24	20.80	0.40	19.05	<=34.77	Pass
		12	0	19.83	0.40	18.08	<=34.77	Pass
			6	20.12	0.40	18.37	<=34.77	Pass
			13	20.27	0.40	18.52	<=34.77	Pass
		25	0	20.23	0.40	18.48	<=34.77	Pass
	707.5	1	0	21.26	0.40	19.51	<=34.77	Pass
			13	21.52	0.40	19.77	<=34.77	Pass
			24	21.13	0.40	19.38	<=34.77	Pass
		12	0	20.06	0.40	18.31	<=34.77	Pass
			6	20.25	0.40	18.50	<=34.77	Pass
			13	20.17	0.40	18.42	<=34.77	Pass
		25	0	20.36	0.40	18.61	<=34.77	Pass
	713.5	1	0	21.22	0.40	19.47	<=34.77	Pass
			13	21.56	0.40	19.81	<=34.77	Pass
			24	21.63	0.40	19.88	<=34.77	Pass
		12	0	20.51	0.40	18.76	<=34.77	Pass
			6	20.53	0.40	18.78	<=34.77	Pass
			13	20.54	0.40	18.79	<=34.77	Pass
		25	0	20.47	0.40	18.72	<=34.77	Pass



Note1: ERP=Conducted Power+Antenna Gain-2.15

1.4 B12_10MHz_ERP

1.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	22.10	0.40	20.35	<=34.77	Pass
			25	22.36	0.40	20.61	<=34.77	Pass
			49	22.13	0.40	20.38	<=34.77	Pass
		25	0	21.07	0.40	19.32	<=34.77	Pass
			13	21.26	0.40	19.51	<=34.77	Pass
			25	21.35	0.40	19.60	<=34.77	Pass
		50	0	21.18	0.40	19.43	<=34.77	Pass
	707.5	1	0	21.85	0.40	20.10	<=34.77	Pass
			25	22.90	0.40	21.15	<=34.77	Pass
			49	22.03	0.40	20.28	<=34.77	Pass
		25	0	21.39	0.40	19.64	<=34.77	Pass
			13	21.45	0.40	19.70	<=34.77	Pass
			25	21.28	0.40	19.53	<=34.77	Pass
		50	0	21.31	0.40	19.56	<=34.77	Pass
	711	1	0	22.30	0.40	20.55	<=34.77	Pass
			25	22.66	0.40	20.91	<=34.77	Pass
			49	22.12	0.40	20.37	<=34.77	Pass
		25	0	21.57	0.40	19.82	<=34.77	Pass
			13	21.49	0.40	19.74	<=34.77	Pass
			25	21.38	0.40	19.63	<=34.77	Pass
		50	0	21.50	0.40	19.75	<=34.77	Pass
16QAM	704	1	0	21.34	0.40	19.59	<=34.77	Pass
			25	22.24	0.40	20.49	<=34.77	Pass
			49	21.63	0.40	19.88	<=34.77	Pass
		25	0	20.20	0.40	18.45	<=34.77	Pass
			13	20.32	0.40	18.57	<=34.77	Pass
			25	20.36	0.40	18.61	<=34.77	Pass
		50	0	20.09	0.40	18.34	<=34.77	Pass
	707.5	1	0	21.40	0.40	19.65	<=34.77	Pass
			25	22.60	0.40	20.85	<=34.77	Pass
			49	21.77	0.40	20.02	<=34.77	Pass
		25	0	20.44	0.40	18.69	<=34.77	Pass
			13	20.51	0.40	18.76	<=34.77	Pass
			25	20.21	0.40	18.46	<=34.77	Pass
		50	0	20.33	0.40	18.58	<=34.77	Pass
	711	1	0	21.08	0.40	19.33	<=34.77	Pass
			25	21.56	0.40	19.81	<=34.77	Pass
			49	20.95	0.40	19.20	<=34.77	Pass
		25	0	20.53	0.40	18.78	<=34.77	Pass
			13	20.58	0.40	18.83	<=34.77	Pass
			25	20.57	0.40	18.82	<=34.77	Pass
		50	0	20.45	0.40	18.70	<=34.77	Pass
64QAM	704	1	0	20.89	0.40	19.14	<=34.77	Pass
			25	22.15	0.40	20.40	<=34.77	Pass
			49	21.65	0.40	19.90	<=34.77	Pass



		25	0	20.21	0.40	18.46	<=34.77	Pass
			13	20.45	0.40	18.70	<=34.77	Pass
			25	20.56	0.40	18.81	<=34.77	Pass
		50	0	20.21	0.40	18.46	<=34.77	Pass
	707.5	1	0	20.55	0.40	18.80	<=34.77	Pass
			25	22.11	0.40	20.36	<=34.77	Pass
			49	21.58	0.40	19.83	<=34.77	Pass
		25	0	20.37	0.40	18.62	<=34.77	Pass
			13	20.39	0.40	18.64	<=34.77	Pass
			25	20.28	0.40	18.53	<=34.77	Pass
		50	0	20.43	0.40	18.68	<=34.77	Pass
		711	1	0	21.36	0.40	19.61	<=34.77
	25			21.94	0.40	20.19	<=34.77	Pass
	49			21.56	0.40	19.81	<=34.77	Pass
	25		0	20.70	0.40	18.95	<=34.77	Pass
			13	20.50	0.40	18.75	<=34.77	Pass
			25	20.35	0.40	18.60	<=34.77	Pass
	50		0	20.37	0.40	18.62	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 B12_1.4MHz

2.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	699.7	6	0	20	6.12	-0.876	-0.0013	-2.5 to 2.5	Pass
					7.20	-1.024	-0.0015	-2.5 to 2.5	Pass
					8.28	-0.685	-0.0010	-2.5 to 2.5	Pass
				-30	7.20	-1.430	-0.0020	-2.5 to 2.5	Pass
				-20	7.20	-0.884	-0.0013	-2.5 to 2.5	Pass
				-10	7.20	-0.614	-0.0009	-2.5 to 2.5	Pass
				0	7.20	-1.573	-0.0022	-2.5 to 2.5	Pass
				10	7.20	-0.815	-0.0012	-2.5 to 2.5	Pass
				30	7.20	-0.328	-0.0005	-2.5 to 2.5	Pass
				40	7.20	-1.492	-0.0021	-2.5 to 2.5	Pass
				50	7.20	-1.484	-0.0021	-2.5 to 2.5	Pass
	707.5	6	0	20	6.12	-0.382	-0.0005	-2.5 to 2.5	Pass
					7.20	0.247	0.0003	-2.5 to 2.5	Pass
					8.28	0.360	0.0005	-2.5 to 2.5	Pass
				-30	7.20	-0.692	-0.0010	-2.5 to 2.5	Pass
				-20	7.20	-0.791	-0.0011	-2.5 to 2.5	Pass
				-10	7.20	-0.835	-0.0012	-2.5 to 2.5	Pass
				0	7.20	-0.918	-0.0013	-2.5 to 2.5	Pass
				10	7.20	-0.309	-0.0004	-2.5 to 2.5	Pass
				30	7.20	-0.787	-0.0011	-2.5 to 2.5	Pass
				40	7.20	-0.840	-0.0012	-2.5 to 2.5	Pass
				50	7.20	-0.693	-0.0010	-2.5 to 2.5	Pass
	715.3	6	0	20	6.12	-1.278	-0.0018	-2.5 to 2.5	Pass
					7.20	-0.955	-0.0013	-2.5 to 2.5	Pass



					8.28	-0.773	-0.0011	-2.5 to 2.5	Pass
				-30	7.20	-0.862	-0.0012	-2.5 to 2.5	Pass
				-20	7.20	-1.348	-0.0019	-2.5 to 2.5	Pass
				-10	7.20	-1.155	-0.0016	-2.5 to 2.5	Pass
				0	7.20	-0.242	-0.0003	-2.5 to 2.5	Pass
				10	7.20	-0.160	-0.0002	-2.5 to 2.5	Pass
				30	7.20	-0.631	-0.0009	-2.5 to 2.5	Pass
				40	7.20	-0.070	-0.0001	-2.5 to 2.5	Pass
				50	7.20	0.009	0.0000	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	6.12	-0.170	-0.0002	-2.5 to 2.5	Pass
					7.20	-1.496	-0.0021	-2.5 to 2.5	Pass
					8.28	-1.464	-0.0021	-2.5 to 2.5	Pass
				-30	7.20	-0.441	-0.0006	-2.5 to 2.5	Pass
				-20	7.20	-0.648	-0.0009	-2.5 to 2.5	Pass
				-10	7.20	-0.397	-0.0006	-2.5 to 2.5	Pass
				0	7.20	-1.012	-0.0014	-2.5 to 2.5	Pass
				10	7.20	0.187	0.0003	-2.5 to 2.5	Pass
				30	7.20	-0.881	-0.0013	-2.5 to 2.5	Pass
				40	7.20	-1.045	-0.0015	-2.5 to 2.5	Pass
				50	7.20	0.208	0.0003	-2.5 to 2.5	Pass
				707.5	6	0	20	6.12	0.073
	7.20	0.060	0.0001					-2.5 to 2.5	Pass
	8.28	-0.116	-0.0002					-2.5 to 2.5	Pass
	-30	7.20	0.189				0.0003	-2.5 to 2.5	Pass
	-20	7.20	-0.951				-0.0013	-2.5 to 2.5	Pass
	-10	7.20	-0.460				-0.0007	-2.5 to 2.5	Pass
	0	7.20	-0.827				-0.0012	-2.5 to 2.5	Pass
	10	7.20	-0.227				-0.0003	-2.5 to 2.5	Pass
	30	7.20	-0.078				-0.0001	-2.5 to 2.5	Pass
	40	7.20	-0.534				-0.0008	-2.5 to 2.5	Pass
	50	7.20	-0.052				-0.0001	-2.5 to 2.5	Pass
	715.3	6	0				20	6.12	0.602
				7.20	0.397	0.0006		-2.5 to 2.5	Pass
				8.28	0.512	0.0007		-2.5 to 2.5	Pass
				-30	7.20	-0.092	-0.0001	-2.5 to 2.5	Pass
				-20	7.20	0.030	0.0000	-2.5 to 2.5	Pass
				-10	7.20	-0.309	-0.0004	-2.5 to 2.5	Pass
				0	7.20	-0.587	-0.0008	-2.5 to 2.5	Pass
				10	7.20	-0.485	-0.0007	-2.5 to 2.5	Pass
				30	7.20	-1.513	-0.0021	-2.5 to 2.5	Pass
				40	7.20	0.377	0.0005	-2.5 to 2.5	Pass
50				7.20	-0.647	-0.0009	-2.5 to 2.5	Pass	
64QAM				699.7	6	0	20	6.12	-0.247
	7.20	0.608	0.0009					-2.5 to 2.5	Pass
	8.28	1.067	0.0015					-2.5 to 2.5	Pass
	-30	7.20	0.564				0.0008	-2.5 to 2.5	Pass
	-20	7.20	-0.044				-0.0001	-2.5 to 2.5	Pass
	-10	7.20	-0.032				0.0000	-2.5 to 2.5	Pass
	0	7.20	-0.327				-0.0005	-2.5 to 2.5	Pass
	10	7.20	-0.557				-0.0008	-2.5 to 2.5	Pass
	30	7.20	-0.312				-0.0004	-2.5 to 2.5	Pass
	40	7.20	-0.993				-0.0014	-2.5 to 2.5	Pass
	50	7.20	-1.221				-0.0017	-2.5 to 2.5	Pass
	707.5	6	0				20	6.12	-1.436
				7.20	-0.923	-0.0013		-2.5 to 2.5	Pass
				8.28	-1.456	-0.0021		-2.5 to 2.5	Pass



				-30	7.20	-1.430	-0.0020	-2.5 to 2.5	Pass
				-20	7.20	-1.569	-0.0022	-2.5 to 2.5	Pass
				-10	7.20	-2.134	-0.0030	-2.5 to 2.5	Pass
				0	7.20	-1.964	-0.0028	-2.5 to 2.5	Pass
				10	7.20	-2.314	-0.0033	-2.5 to 2.5	Pass
				30	7.20	-0.350	-0.0005	-2.5 to 2.5	Pass
				40	7.20	-0.317	-0.0004	-2.5 to 2.5	Pass
				50	7.20	-0.643	-0.0009	-2.5 to 2.5	Pass
	715.3	6	0	20	6.12	-1.141	-0.0016	-2.5 to 2.5	Pass
					7.20	-1.822	-0.0025	-2.5 to 2.5	Pass
					8.28	-1.290	-0.0018	-2.5 to 2.5	Pass
				-30	7.20	-1.845	-0.0026	-2.5 to 2.5	Pass
				-20	7.20	-2.365	-0.0033	-2.5 to 2.5	Pass
				-10	7.20	-1.826	-0.0026	-2.5 to 2.5	Pass
				0	7.20	-1.247	-0.0017	-2.5 to 2.5	Pass
				10	7.20	-1.665	-0.0023	-2.5 to 2.5	Pass
				30	7.20	-2.041	-0.0029	-2.5 to 2.5	Pass
				40	7.20	-1.237	-0.0017	-2.5 to 2.5	Pass
				50	7.20	-1.944	-0.0027	-2.5 to 2.5	Pass

2.2 B12_3MHz

2.2.1 Test Result

Band: 12 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	700.5	15	0	20	6.12	-1.470	-0.0021	-2.5 to 2.5	Pass
					7.20	-2.151	-0.0031	-2.5 to 2.5	Pass
					8.28	-1.907	-0.0027	-2.5 to 2.5	Pass
				-30	7.20	-2.013	-0.0029	-2.5 to 2.5	Pass
				-20	7.20	-1.868	-0.0027	-2.5 to 2.5	Pass
				-10	7.20	-1.980	-0.0028	-2.5 to 2.5	Pass
				0	7.20	-2.828	-0.0040	-2.5 to 2.5	Pass
				10	7.20	-2.439	-0.0035	-2.5 to 2.5	Pass
				30	7.20	-2.459	-0.0035	-2.5 to 2.5	Pass
				40	7.20	-2.196	-0.0031	-2.5 to 2.5	Pass
				50	7.20	-1.514	-0.0022	-2.5 to 2.5	Pass
	707.5	15	0	20	6.12	-1.459	-0.0021	-2.5 to 2.5	Pass
					7.20	0.410	0.0006	-2.5 to 2.5	Pass
					8.28	-0.867	-0.0012	-2.5 to 2.5	Pass
				-30	7.20	-0.681	-0.0010	-2.5 to 2.5	Pass
				-20	7.20	-0.618	-0.0009	-2.5 to 2.5	Pass
				-10	7.20	-1.648	-0.0023	-2.5 to 2.5	Pass
				0	7.20	0.877	0.0012	-2.5 to 2.5	Pass
				10	7.20	-0.202	-0.0003	-2.5 to 2.5	Pass
				30	7.20	-1.430	-0.0020	-2.5 to 2.5	Pass
				40	7.20	-1.726	-0.0024	-2.5 to 2.5	Pass
				50	7.20	-0.458	-0.0006	-2.5 to 2.5	Pass
	714.5	15	0	20	6.12	0.408	0.0006	-2.5 to 2.5	Pass
					7.20	0.510	0.0007	-2.5 to 2.5	Pass
					8.28	-0.211	-0.0003	-2.5 to 2.5	Pass
				-30	7.20	-0.098	-0.0001	-2.5 to 2.5	Pass
				-20	7.20	-0.037	-0.0001	-2.5 to 2.5	Pass



				-10	7.20	-0.555	-0.0008	-2.5 to 2.5	Pass
				0	7.20	0.113	0.0002	-2.5 to 2.5	Pass
				10	7.20	-0.787	-0.0011	-2.5 to 2.5	Pass
				30	7.20	-0.324	-0.0005	-2.5 to 2.5	Pass
				40	7.20	-0.690	-0.0010	-2.5 to 2.5	Pass
16QAM	700.5	15	0	50	7.20	-1.057	-0.0015	-2.5 to 2.5	Pass
				20	6.12	-2.071	-0.0030	-2.5 to 2.5	Pass
					7.20	-1.960	-0.0028	-2.5 to 2.5	Pass
					8.28	-2.066	-0.0029	-2.5 to 2.5	Pass
				-30	7.20	-2.007	-0.0029	-2.5 to 2.5	Pass
				-20	7.20	-1.500	-0.0021	-2.5 to 2.5	Pass
				-10	7.20	-1.091	-0.0016	-2.5 to 2.5	Pass
				0	7.20	-0.863	-0.0012	-2.5 to 2.5	Pass
				10	7.20	-1.409	-0.0020	-2.5 to 2.5	Pass
				30	7.20	-2.544	-0.0036	-2.5 to 2.5	Pass
	707.5	15	0	40	7.20	-2.341	-0.0033	-2.5 to 2.5	Pass
				50	7.20	-2.021	-0.0029	-2.5 to 2.5	Pass
				20	6.12	-1.724	-0.0024	-2.5 to 2.5	Pass
					7.20	-0.748	-0.0011	-2.5 to 2.5	Pass
					8.28	-0.255	-0.0004	-2.5 to 2.5	Pass
				-30	7.20	-0.959	-0.0014	-2.5 to 2.5	Pass
				-20	7.20	-0.955	-0.0013	-2.5 to 2.5	Pass
				-10	7.20	0.756	0.0011	-2.5 to 2.5	Pass
				0	7.20	-0.518	-0.0007	-2.5 to 2.5	Pass
				10	7.20	-1.374	-0.0019	-2.5 to 2.5	Pass
	714.5	15	0	30	7.20	-0.845	-0.0012	-2.5 to 2.5	Pass
				40	7.20	-0.365	-0.0005	-2.5 to 2.5	Pass
				50	7.20	0.284	0.0004	-2.5 to 2.5	Pass
				20	6.12	0.745	0.0010	-2.5 to 2.5	Pass
					7.20	-0.406	-0.0006	-2.5 to 2.5	Pass
					8.28	0.339	0.0005	-2.5 to 2.5	Pass
				-30	7.20	0.535	0.0007	-2.5 to 2.5	Pass
				-20	7.20	0.143	0.0002	-2.5 to 2.5	Pass
				-10	7.20	-0.639	-0.0009	-2.5 to 2.5	Pass
				0	7.20	0.073	0.0001	-2.5 to 2.5	Pass
64QAM	700.5	15	0	10	7.20	-0.546	-0.0008	-2.5 to 2.5	Pass
				30	7.20	0.743	0.0010	-2.5 to 2.5	Pass
				40	7.20	0.087	0.0001	-2.5 to 2.5	Pass
				50	7.20	-0.398	-0.0006	-2.5 to 2.5	Pass
				20	6.12	1.219	0.0017	-2.5 to 2.5	Pass
					7.20	-0.669	-0.0010	-2.5 to 2.5	Pass
					8.28	1.151	0.0016	-2.5 to 2.5	Pass
				-30	7.20	0.368	0.0005	-2.5 to 2.5	Pass
				-20	7.20	0.247	0.0004	-2.5 to 2.5	Pass
				-10	7.20	0.960	0.0014	-2.5 to 2.5	Pass
	707.5	15	0	0	7.20	-0.346	-0.0005	-2.5 to 2.5	Pass
				10	7.20	-0.001	0.0000	-2.5 to 2.5	Pass
				30	7.20	0.456	0.0007	-2.5 to 2.5	Pass
				40	7.20	0.188	0.0003	-2.5 to 2.5	Pass
				50	7.20	0.459	0.0007	-2.5 to 2.5	Pass
				20	6.12	-1.684	-0.0024	-2.5 to 2.5	Pass
					7.20	-1.370	-0.0019	-2.5 to 2.5	Pass
					8.28	-1.241	-0.0018	-2.5 to 2.5	Pass
				-30	7.20	-1.723	-0.0024	-2.5 to 2.5	Pass
				-20	7.20	-1.654	-0.0023	-2.5 to 2.5	Pass
				-10	7.20	-1.357	-0.0019	-2.5 to 2.5	Pass



				0	7.20	-1.592	-0.0023	-2.5 to 2.5	Pass
				10	7.20	-1.346	-0.0019	-2.5 to 2.5	Pass
				30	7.20	-0.748	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-0.935	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-0.755	-0.0011	-2.5 to 2.5	Pass
	714.5	15	0	20	6.12	-0.269	-0.0004	-2.5 to 2.5	Pass
					7.20	-0.006	0.0000	-2.5 to 2.5	Pass
					8.28	0.485	0.0007	-2.5 to 2.5	Pass
				-30	7.20	-0.484	-0.0007	-2.5 to 2.5	Pass
				-20	7.20	-0.067	-0.0001	-2.5 to 2.5	Pass
				-10	7.20	-0.131	-0.0002	-2.5 to 2.5	Pass
				0	7.20	-0.219	-0.0003	-2.5 to 2.5	Pass
				10	7.20	-1.327	-0.0019	-2.5 to 2.5	Pass
				30	7.20	-1.174	-0.0016	-2.5 to 2.5	Pass
				40	7.20	-0.618	-0.0009	-2.5 to 2.5	Pass
				50	7.20	-0.425	-0.0006	-2.5 to 2.5	Pass

2.3 B12_5MHz

2.3.1 Test Result

Band: 12 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	701.5	25	0	20	6.12	-0.279	-0.0004	-2.5 to 2.5	Pass
					7.20	-2.108	-0.0030	-2.5 to 2.5	Pass
					8.28	-1.515	-0.0022	-2.5 to 2.5	Pass
				-30	7.20	-0.339	-0.0005	-2.5 to 2.5	Pass
				-20	7.20	-0.808	-0.0012	-2.5 to 2.5	Pass
				-10	7.20	-1.897	-0.0027	-2.5 to 2.5	Pass
				0	7.20	0.173	0.0002	-2.5 to 2.5	Pass
				10	7.20	-0.620	-0.0009	-2.5 to 2.5	Pass
				30	7.20	-1.878	-0.0027	-2.5 to 2.5	Pass
				40	7.20	-1.663	-0.0024	-2.5 to 2.5	Pass
	707.5	25	0	20	6.12	-1.611	-0.0023	-2.5 to 2.5	Pass
					7.20	-1.854	-0.0026	-2.5 to 2.5	Pass
					8.28	-0.411	-0.0006	-2.5 to 2.5	Pass
				-30	7.20	-1.215	-0.0017	-2.5 to 2.5	Pass
				-20	7.20	-1.176	-0.0017	-2.5 to 2.5	Pass
				-10	7.20	0.175	0.0002	-2.5 to 2.5	Pass
				0	7.20	-0.863	-0.0012	-2.5 to 2.5	Pass
				10	7.20	-0.428	-0.0006	-2.5 to 2.5	Pass
				30	7.20	-1.895	-0.0027	-2.5 to 2.5	Pass
				40	7.20	-1.339	-0.0019	-2.5 to 2.5	Pass
	713.5	25	0	20	6.12	-1.986	-0.0028	-2.5 to 2.5	Pass
					7.20	-2.029	-0.0028	-2.5 to 2.5	Pass
					8.28	-0.332	-0.0005	-2.5 to 2.5	Pass
				-30	7.20	-1.511	-0.0021	-2.5 to 2.5	Pass
				-20	7.20	-0.091	-0.0001	-2.5 to 2.5	Pass
				-10	7.20	-0.720	-0.0010	-2.5 to 2.5	Pass
				0	7.20	-0.765	-0.0011	-2.5 to 2.5	Pass
				10	7.20	-0.080	-0.0001	-2.5 to 2.5	Pass



				30	7.20	-0.734	-0.0010	-2.5 to 2.5	Pass
				40	7.20	-0.815	-0.0011	-2.5 to 2.5	Pass
				50	7.20	-1.397	-0.0020	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	6.12	-1.287	-0.0018	-2.5 to 2.5	Pass
					7.20	-0.766	-0.0011	-2.5 to 2.5	Pass
					8.28	-0.808	-0.0012	-2.5 to 2.5	Pass
				-30	7.20	-2.322	-0.0033	-2.5 to 2.5	Pass
				-20	7.20	-0.152	-0.0002	-2.5 to 2.5	Pass
				-10	7.20	-1.387	-0.0020	-2.5 to 2.5	Pass
				0	7.20	-0.563	-0.0008	-2.5 to 2.5	Pass
				10	7.20	-2.243	-0.0032	-2.5 to 2.5	Pass
				30	7.20	-0.255	-0.0004	-2.5 to 2.5	Pass
				40	7.20	0.179	0.0003	-2.5 to 2.5	Pass
				50	7.20	-0.697	-0.0010	-2.5 to 2.5	Pass
	707.5	25	0	20	6.12	-0.689	-0.0010	-2.5 to 2.5	Pass
					7.20	1.368	0.0019	-2.5 to 2.5	Pass
					8.28	-0.718	-0.0010	-2.5 to 2.5	Pass
				-30	7.20	-0.010	0.0000	-2.5 to 2.5	Pass
				-20	7.20	0.001	0.0000	-2.5 to 2.5	Pass
				-10	7.20	-0.350	-0.0005	-2.5 to 2.5	Pass
				0	7.20	-0.139	-0.0002	-2.5 to 2.5	Pass
				10	7.20	-1.026	-0.0015	-2.5 to 2.5	Pass
				30	7.20	0.146	0.0002	-2.5 to 2.5	Pass
				40	7.20	-1.303	-0.0018	-2.5 to 2.5	Pass
				50	7.20	-0.868	-0.0012	-2.5 to 2.5	Pass
	713.5	25	0	20	6.12	-0.266	-0.0004	-2.5 to 2.5	Pass
					7.20	-0.222	-0.0003	-2.5 to 2.5	Pass
					8.28	-0.078	-0.0001	-2.5 to 2.5	Pass
				-30	7.20	-1.515	-0.0021	-2.5 to 2.5	Pass
				-20	7.20	-0.196	-0.0003	-2.5 to 2.5	Pass
				-10	7.20	-0.112	-0.0002	-2.5 to 2.5	Pass
				0	7.20	-0.756	-0.0011	-2.5 to 2.5	Pass
				10	7.20	-0.333	-0.0005	-2.5 to 2.5	Pass
				30	7.20	-1.006	-0.0014	-2.5 to 2.5	Pass
				40	7.20	-1.122	-0.0016	-2.5 to 2.5	Pass
				50	7.20	0.628	0.0009	-2.5 to 2.5	Pass
64QAM	701.5	25	0	20	6.12	-1.170	-0.0017	-2.5 to 2.5	Pass
					7.20	-0.320	-0.0005	-2.5 to 2.5	Pass
					8.28	-1.489	-0.0021	-2.5 to 2.5	Pass
				-30	7.20	-1.832	-0.0026	-2.5 to 2.5	Pass
				-20	7.20	-1.121	-0.0016	-2.5 to 2.5	Pass
				-10	7.20	-1.347	-0.0019	-2.5 to 2.5	Pass
				0	7.20	-0.649	-0.0009	-2.5 to 2.5	Pass
				10	7.20	-0.732	-0.0010	-2.5 to 2.5	Pass
				30	7.20	-1.088	-0.0016	-2.5 to 2.5	Pass
				40	7.20	-0.871	-0.0012	-2.5 to 2.5	Pass
				50	7.20	-1.097	-0.0016	-2.5 to 2.5	Pass
	707.5	25	0	20	6.12	-0.779	-0.0011	-2.5 to 2.5	Pass
					7.20	-1.044	-0.0015	-2.5 to 2.5	Pass
					8.28	-0.365	-0.0005	-2.5 to 2.5	Pass
				-30	7.20	-1.710	-0.0024	-2.5 to 2.5	Pass
				-20	7.20	0.261	0.0004	-2.5 to 2.5	Pass
				-10	7.20	-0.894	-0.0013	-2.5 to 2.5	Pass
				0	7.20	-0.408	-0.0006	-2.5 to 2.5	Pass
				10	7.20	-0.860	-0.0012	-2.5 to 2.5	Pass
				30	7.20	-0.497	-0.0007	-2.5 to 2.5	Pass



	713.5	25	0	40	7.20	-0.659	-0.0009	-2.5 to 2.5	Pass
				50	7.20	-0.927	-0.0013	-2.5 to 2.5	Pass
				20	6.12	-1.121	-0.0016	-2.5 to 2.5	Pass
					7.20	-1.135	-0.0016	-2.5 to 2.5	Pass
					8.28	-0.619	-0.0009	-2.5 to 2.5	Pass
				-30	7.20	-0.019	0.0000	-2.5 to 2.5	Pass
				-20	7.20	-0.787	-0.0011	-2.5 to 2.5	Pass
				-10	7.20	0.232	0.0003	-2.5 to 2.5	Pass
				0	7.20	-1.090	-0.0015	-2.5 to 2.5	Pass
				10	7.20	-0.846	-0.0012	-2.5 to 2.5	Pass
				30	7.20	-0.573	-0.0008	-2.5 to 2.5	Pass
				40	7.20	-1.568	-0.0022	-2.5 to 2.5	Pass
				50	7.20	-0.894	-0.0013	-2.5 to 2.5	Pass

2.4 B12_10MHz

2.4.1 Test Result

Band: 12 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	704	50	0	20	6.12	-0.525	-0.0007	-2.5 to 2.5	Pass
					7.20	0.707	0.0010	-2.5 to 2.5	Pass
					8.28	0.298	0.0004	-2.5 to 2.5	Pass
				-30	7.20	-0.127	-0.0002	-2.5 to 2.5	Pass
				-20	7.20	-0.966	-0.0014	-2.5 to 2.5	Pass
				-10	7.20	0.258	0.0004	-2.5 to 2.5	Pass
				0	7.20	-0.185	-0.0003	-2.5 to 2.5	Pass
				10	7.20	0.778	0.0011	-2.5 to 2.5	Pass
				30	7.20	0.272	0.0004	-2.5 to 2.5	Pass
				40	7.20	-0.070	-0.0001	-2.5 to 2.5	Pass
				50	7.20	-0.459	-0.0007	-2.5 to 2.5	Pass
	707.5	50	0	20	6.12	0.142	0.0002	-2.5 to 2.5	Pass
					7.20	-1.251	-0.0018	-2.5 to 2.5	Pass
					8.28	-0.610	-0.0009	-2.5 to 2.5	Pass
				-30	7.20	-0.853	-0.0012	-2.5 to 2.5	Pass
				-20	7.20	-0.500	-0.0007	-2.5 to 2.5	Pass
				-10	7.20	-0.825	-0.0012	-2.5 to 2.5	Pass
				0	7.20	-1.787	-0.0025	-2.5 to 2.5	Pass
				10	7.20	-0.452	-0.0006	-2.5 to 2.5	Pass
				30	7.20	-1.205	-0.0017	-2.5 to 2.5	Pass
				40	7.20	-1.072	-0.0015	-2.5 to 2.5	Pass
				50	7.20	-1.941	-0.0027	-2.5 to 2.5	Pass
	711	50	0	20	6.12	-1.928	-0.0027	-2.5 to 2.5	Pass
					7.20	-0.310	-0.0004	-2.5 to 2.5	Pass
					8.28	-2.352	-0.0033	-2.5 to 2.5	Pass
				-30	7.20	-2.041	-0.0029	-2.5 to 2.5	Pass
				-20	7.20	-0.678	-0.0010	-2.5 to 2.5	Pass
				-10	7.20	-1.592	-0.0022	-2.5 to 2.5	Pass
				0	7.20	-1.179	-0.0017	-2.5 to 2.5	Pass
				10	7.20	-1.920	-0.0027	-2.5 to 2.5	Pass
				30	7.20	-0.583	-0.0008	-2.5 to 2.5	Pass
				40	7.20	-1.233	-0.0017	-2.5 to 2.5	Pass
				50	7.20	-0.579	-0.0008	-2.5 to 2.5	Pass

16QAM	704	50	0	20	6.12	0.678	0.0010	-2.5 to 2.5	Pass
					7.20	-0.829	-0.0012	-2.5 to 2.5	Pass
					7.20	0.426	0.0006	-2.5 to 2.5	Pass
				-30	7.20	-0.096	-0.0001	-2.5 to 2.5	Pass
				-20	7.20	0.907	0.0013	-2.5 to 2.5	Pass
				-10	7.20	-1.919	-0.0027	-2.5 to 2.5	Pass
				0	7.20	-0.747	-0.0011	-2.5 to 2.5	Pass
				10	7.20	-0.537	-0.0008	-2.5 to 2.5	Pass
				30	7.20	0.198	0.0003	-2.5 to 2.5	Pass
				40	7.20	0.238	0.0003	-2.5 to 2.5	Pass
				50	7.20	0.283	0.0004	-2.5 to 2.5	Pass
	707.5	50	0	20	6.12	-0.194	-0.0003	-2.5 to 2.5	Pass
					7.20	-0.545	-0.0008	-2.5 to 2.5	Pass
					8.28	-0.365	-0.0005	-2.5 to 2.5	Pass
				-30	7.20	-0.447	-0.0006	-2.5 to 2.5	Pass
				-20	7.20	-0.530	-0.0007	-2.5 to 2.5	Pass
				-10	7.20	-1.282	-0.0018	-2.5 to 2.5	Pass
				0	7.20	-0.568	-0.0008	-2.5 to 2.5	Pass
				10	7.20	-1.171	-0.0017	-2.5 to 2.5	Pass
				30	7.20	-1.980	-0.0028	-2.5 to 2.5	Pass
				40	7.20	-1.062	-0.0015	-2.5 to 2.5	Pass
				50	7.20	-0.300	-0.0004	-2.5 to 2.5	Pass
	711	50	0	20	6.12	-2.273	-0.0032	-2.5 to 2.5	Pass
					7.20	-1.263	-0.0018	-2.5 to 2.5	Pass
					8.28	-2.031	-0.0029	-2.5 to 2.5	Pass
				-30	7.20	-1.463	-0.0021	-2.5 to 2.5	Pass
				-20	7.20	-2.204	-0.0031	-2.5 to 2.5	Pass
				-10	7.20	-2.197	-0.0031	-2.5 to 2.5	Pass
				0	7.20	-0.950	-0.0013	-2.5 to 2.5	Pass
				10	7.20	-0.680	-0.0010	-2.5 to 2.5	Pass
				30	7.20	-2.145	-0.0030	-2.5 to 2.5	Pass
				40	7.20	0.039	0.0001	-2.5 to 2.5	Pass
				50	7.20	-1.859	-0.0026	-2.5 to 2.5	Pass
64QAM	704	50	0	20	6.12	0.215	0.0003	-2.5 to 2.5	Pass
					7.20	-0.755	-0.0011	-2.5 to 2.5	Pass
					8.28	-1.031	-0.0015	-2.5 to 2.5	Pass
				-30	7.20	-0.154	-0.0002	-2.5 to 2.5	Pass
				-20	7.20	-0.705	-0.0010	-2.5 to 2.5	Pass
				-10	7.20	-0.011	0.0000	-2.5 to 2.5	Pass
				0	7.20	-1.199	-0.0017	-2.5 to 2.5	Pass
				10	7.20	-0.448	-0.0006	-2.5 to 2.5	Pass
				30	7.20	0.271	0.0004	-2.5 to 2.5	Pass
				40	7.20	-0.063	-0.0001	-2.5 to 2.5	Pass
				50	7.20	0.364	0.0005	-2.5 to 2.5	Pass
	707.5	50	0	20	6.12	-1.501	-0.0021	-2.5 to 2.5	Pass
					7.20	-2.209	-0.0031	-2.5 to 2.5	Pass
					8.28	-0.393	-0.0006	-2.5 to 2.5	Pass
				-30	7.20	-0.734	-0.0010	-2.5 to 2.5	Pass
				-20	7.20	-1.559	-0.0022	-2.5 to 2.5	Pass
				-10	7.20	-0.402	-0.0006	-2.5 to 2.5	Pass
				0	7.20	-1.170	-0.0017	-2.5 to 2.5	Pass
				10	7.20	0.508	0.0007	-2.5 to 2.5	Pass
				30	7.20	-1.464	-0.0021	-2.5 to 2.5	Pass
				40	7.20	-0.228	-0.0003	-2.5 to 2.5	Pass
				50	7.20	-0.827	-0.0012	-2.5 to 2.5	Pass
	711	50	0	20	6.12	-1.953	-0.0027	-2.5 to 2.5	Pass



					7.20	-1.419	-0.0020	-2.5 to 2.5	Pass
					8.28	-1.063	-0.0015	-2.5 to 2.5	Pass
				-30	7.20	-1.736	-0.0024	-2.5 to 2.5	Pass
				-20	7.20	-2.157	-0.0030	-2.5 to 2.5	Pass
				-10	7.20	-2.004	-0.0028	-2.5 to 2.5	Pass
				0	7.20	-2.256	-0.0032	-2.5 to 2.5	Pass
				10	7.20	-2.452	-0.0034	-2.5 to 2.5	Pass
				30	7.20	-1.752	-0.0025	-2.5 to 2.5	Pass
				40	7.20	-2.415	-0.0034	-2.5 to 2.5	Pass
				50	7.20	-2.387	-0.0034	-2.5 to 2.5	Pass

3. Modulation Characteristics

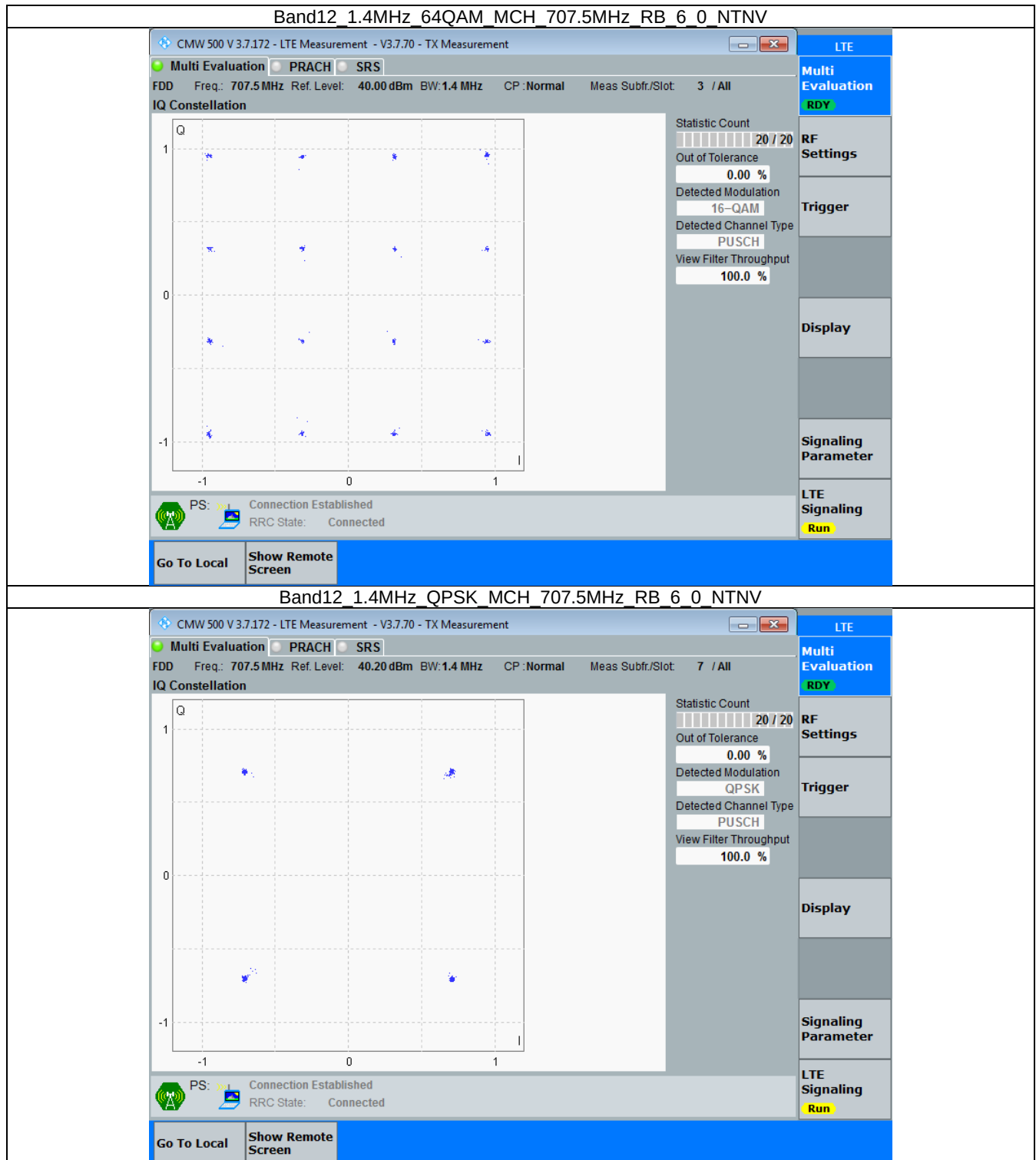
3.1 B12_1.4MHz

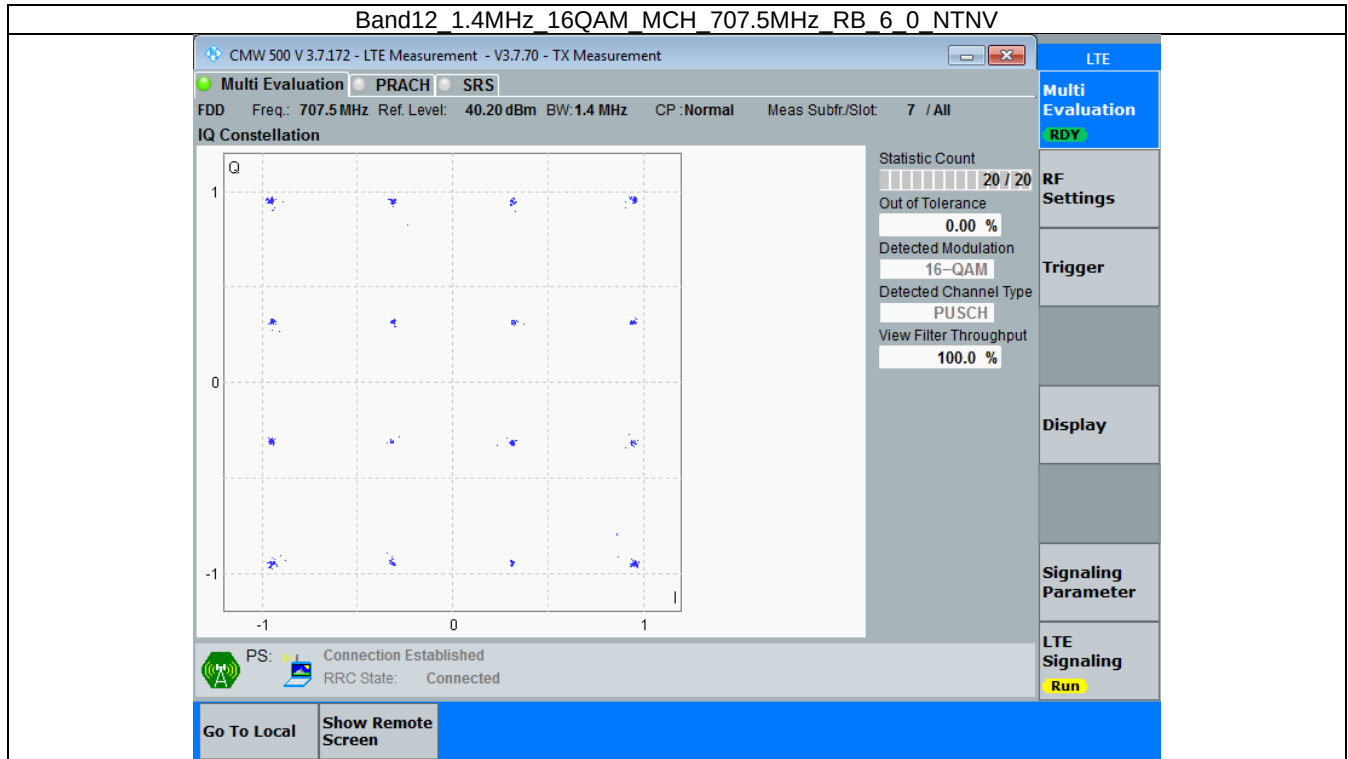
3.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
64QAM	707.5	6	0	Refer To Test Graph	
QPSK	707.5	6	0	Refer To Test Graph	
16QAM	707.5	6	0	Refer To Test Graph	
					Verdict
					Pass
					Pass
					Pass



3.1.2 Test Graph







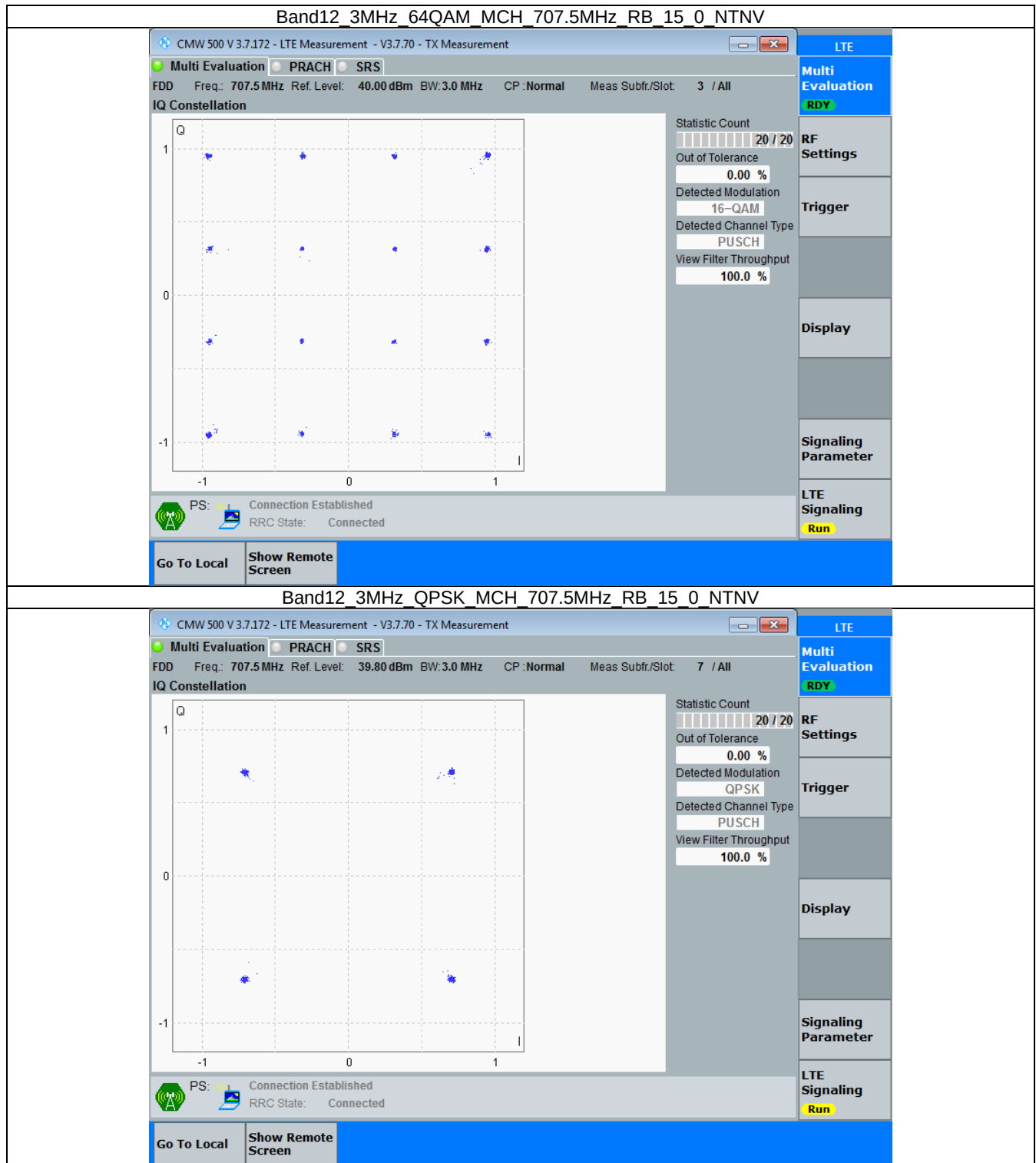
3.2 B12_3MHz

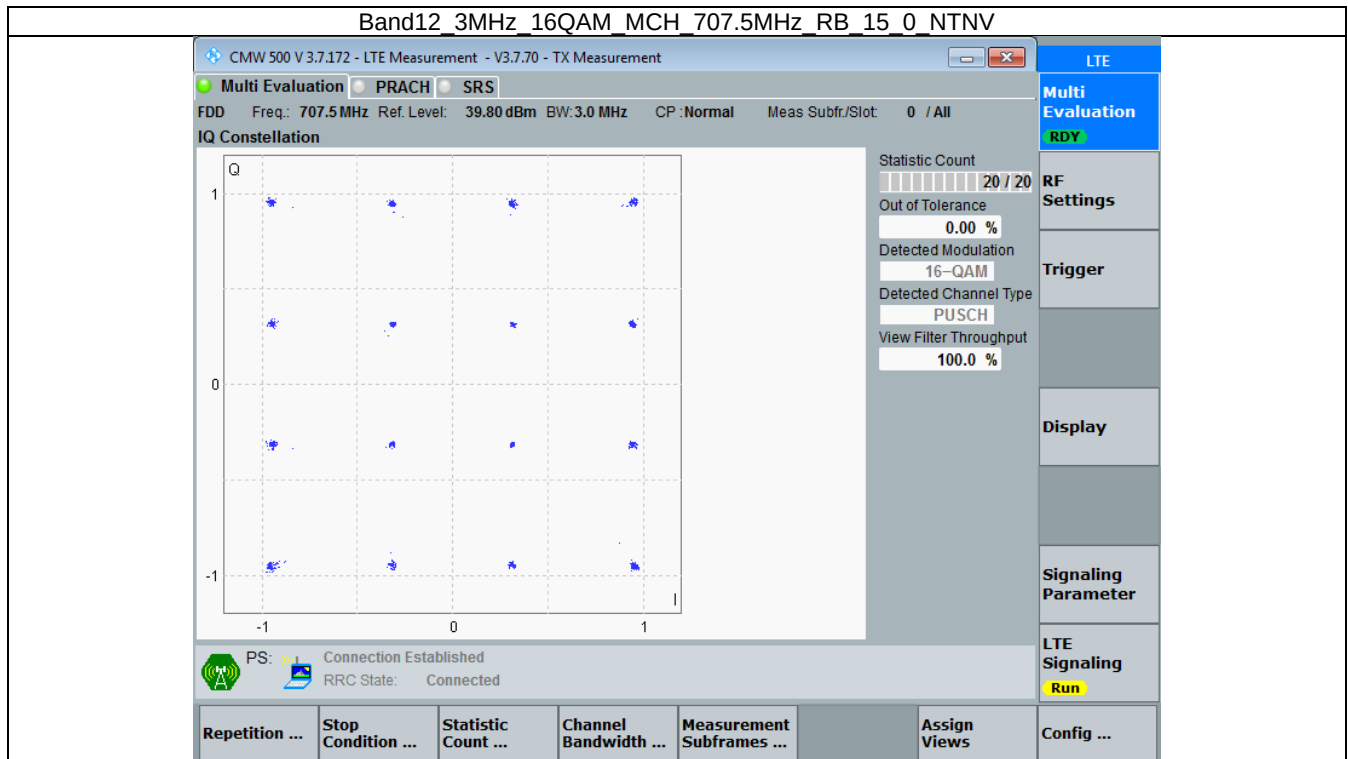
3.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	Verdict
		Size	Offset	Result	Limit
64QAM	707.5	15	0	Refer To Test Graph	Pass
QPSK	707.5	15	0	Refer To Test Graph	Pass
16QAM	707.5	15	0	Refer To Test Graph	Pass



3.2.2 Test Graph







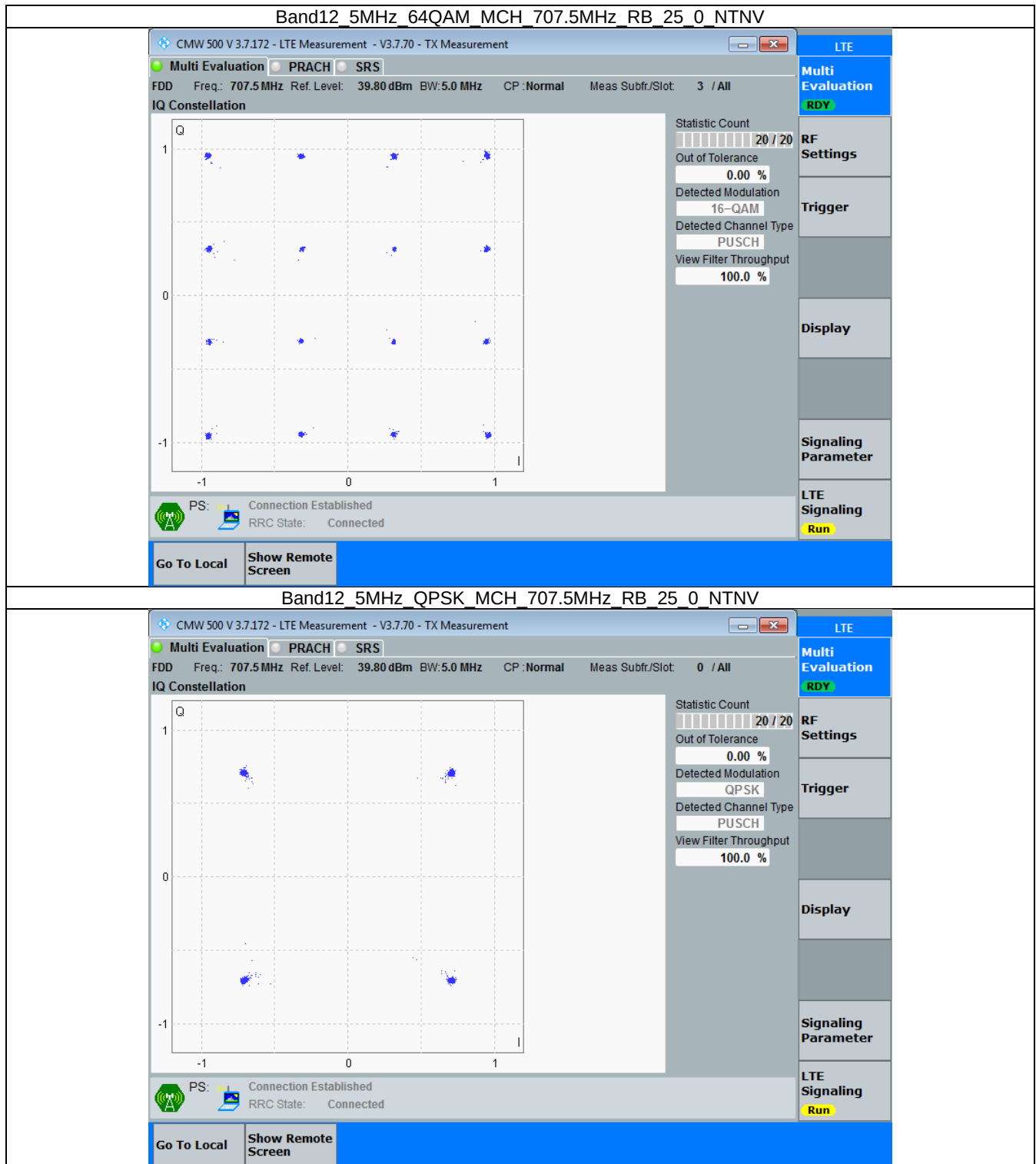
3.3 B12_5MHz

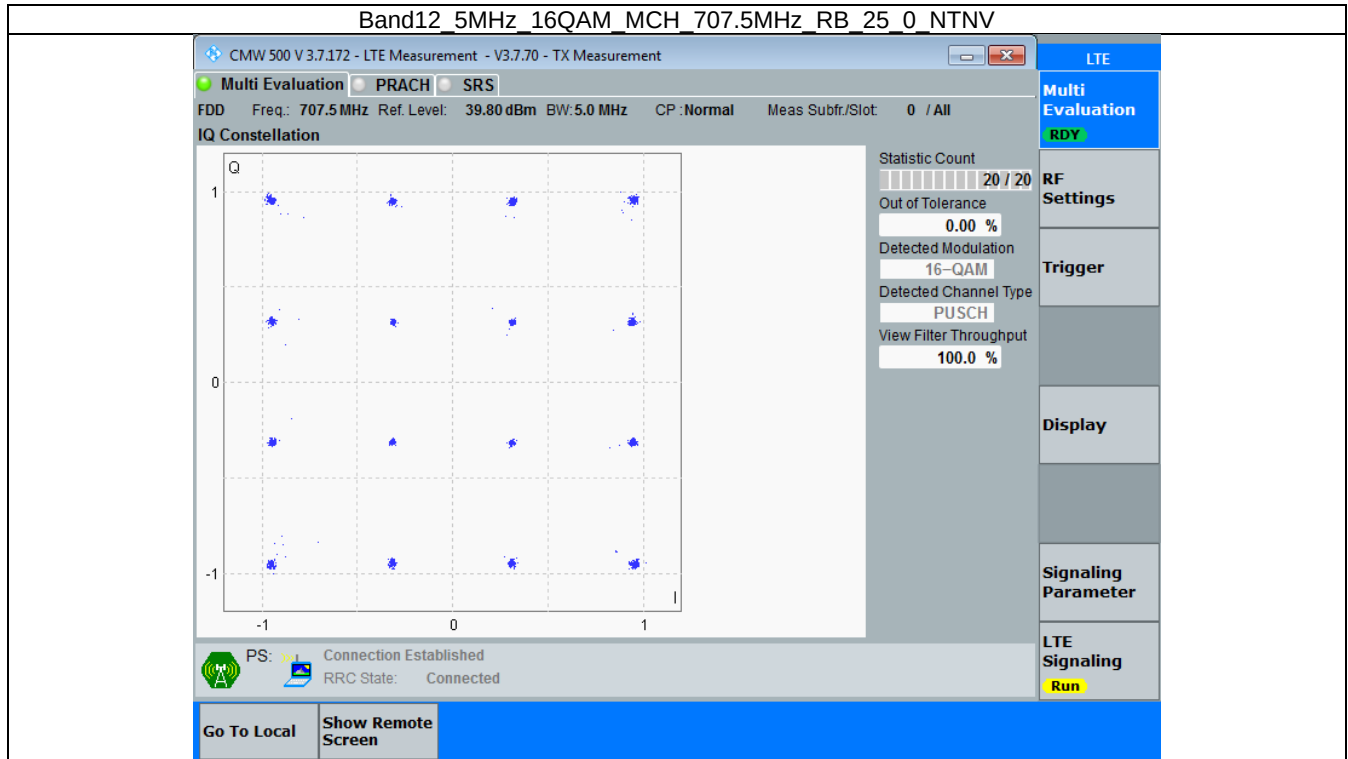
3.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	Verdict
		Size	Offset	Result	Limit
64QAM	707.5	25	0	Refer To Test Graph	Pass
QPSK	707.5	25	0	Refer To Test Graph	Pass
16QAM	707.5	25	0	Refer To Test Graph	Pass



3.3.2 Test Graph







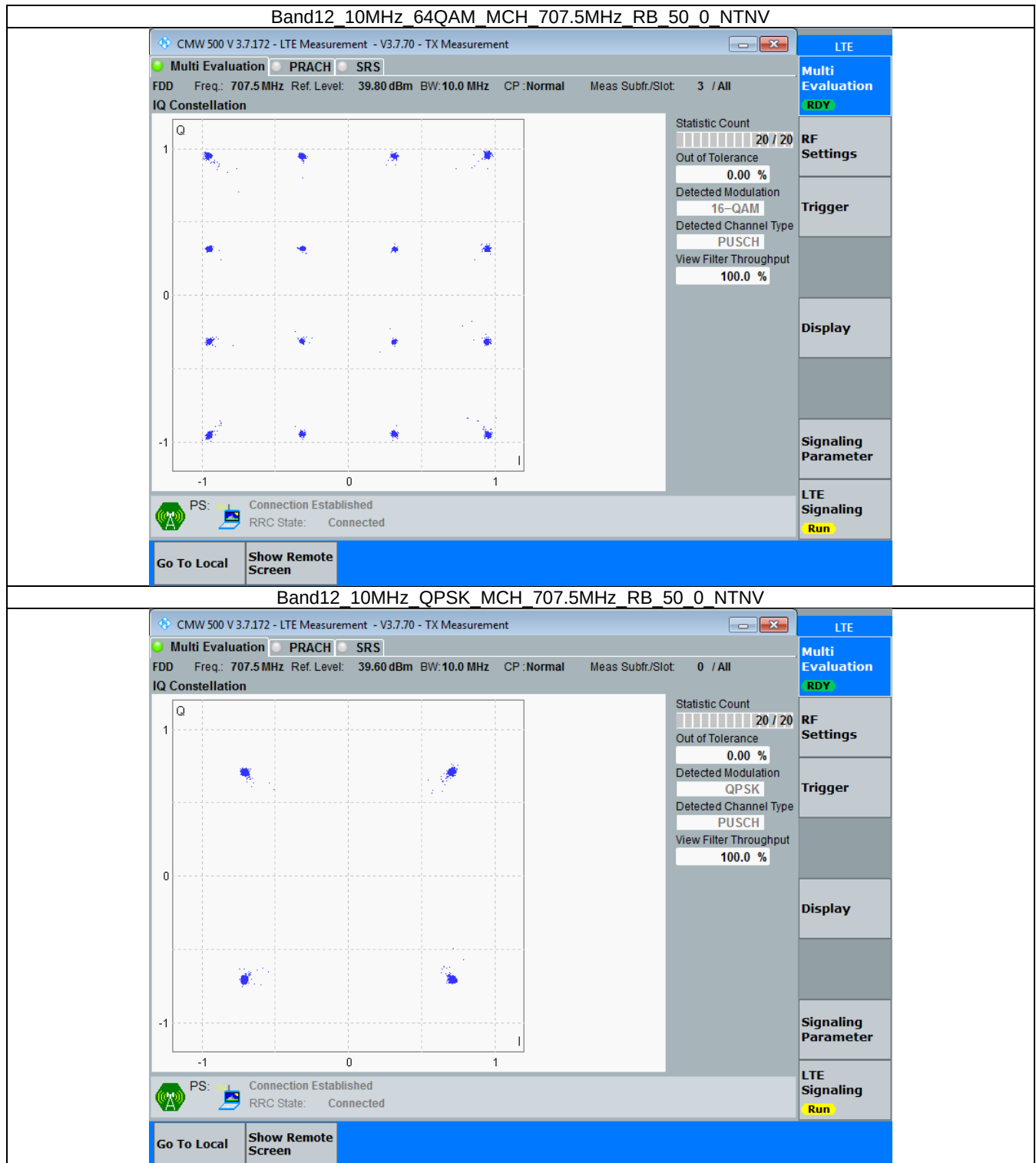
3.4 B12_10MHz

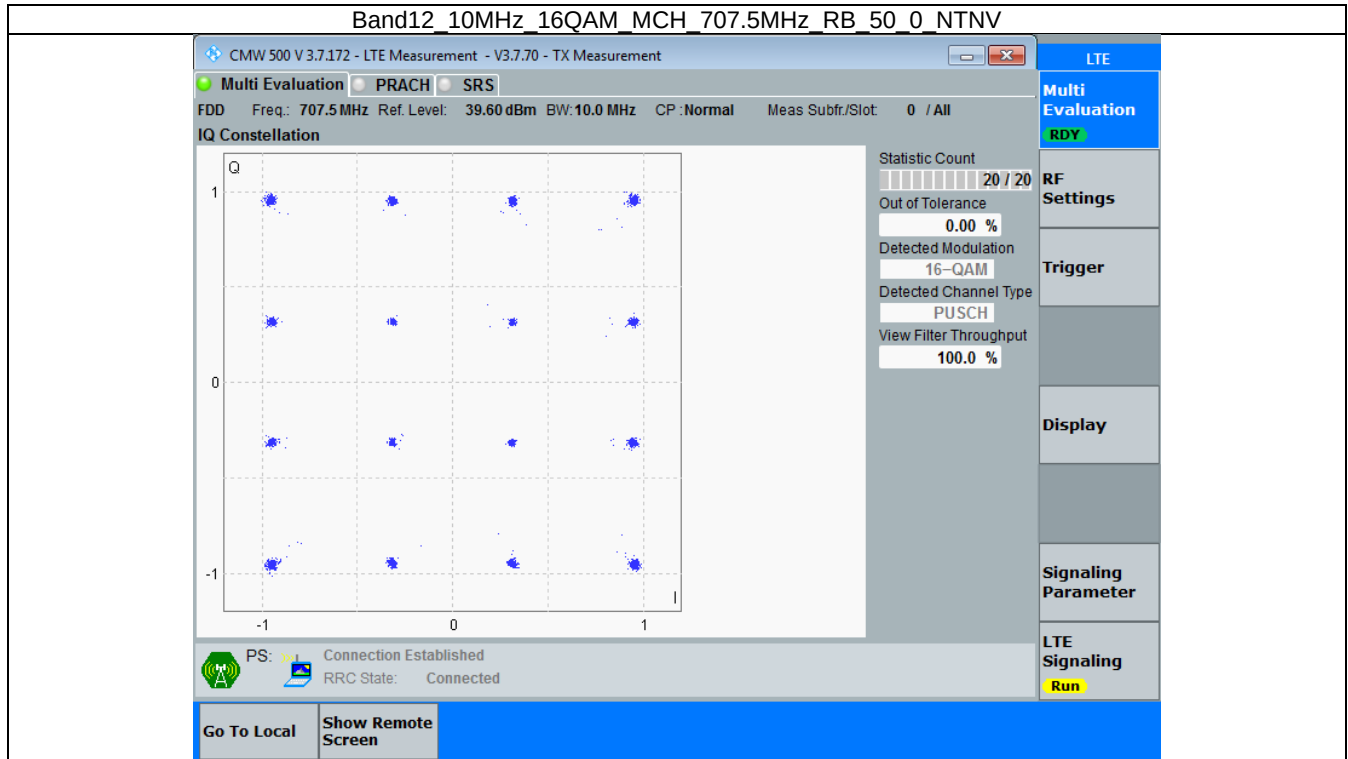
3.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	Verdict
		Size	Offset	Result	Limit
64QAM	707.5	50	0	Refer To Test Graph	Pass
QPSK	707.5	50	0	Refer To Test Graph	Pass
16QAM	707.5	50	0	Refer To Test Graph	Pass



3.4.2 Test Graph







4. 99% & 26dB Bandwidth

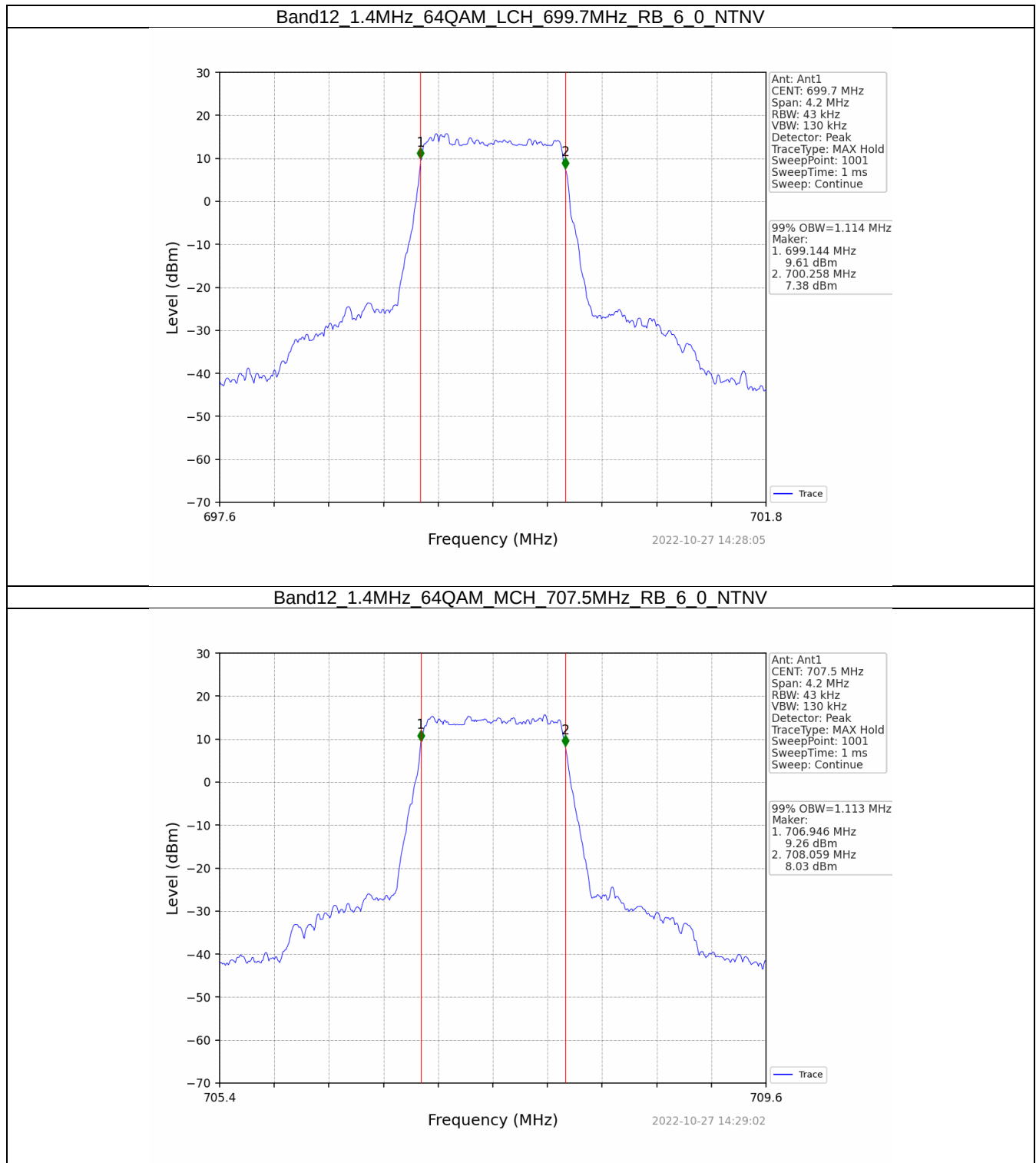
4.1 Band12_OBW

4.1.1 Test Result

Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	64QAM	699.7	6	0	1.114	Pass
		707.5	6	0	1.113	Pass
		715.3	6	0	1.109	Pass
3	64QAM	700.5	15	0	2.731	Pass
		707.5	15	0	2.739	Pass
		714.5	15	0	2.719	Pass
5	64QAM	701.5	25	0	4.567	Pass
		707.5	25	0	4.522	Pass
		713.5	25	0	4.557	Pass
10	64QAM	704	50	0	9.031	Pass
		707.5	50	0	9.010	Pass
		711	50	0	9.045	Pass
1.4	QPSK	699.7	6	0	1.104	Pass
		707.5	6	0	1.110	Pass
		715.3	6	0	1.107	Pass
	16QAM	699.7	6	0	1.113	Pass
		707.5	6	0	1.113	Pass
		715.3	6	0	1.113	Pass
3	QPSK	700.5	15	0	2.743	Pass
		707.5	15	0	2.729	Pass
		714.5	15	0	2.729	Pass
	16QAM	700.5	15	0	2.748	Pass
		707.5	15	0	2.723	Pass
		714.5	15	0	2.726	Pass
5	QPSK	701.5	25	0	4.565	Pass
		707.5	25	0	4.525	Pass
		713.5	25	0	4.555	Pass
	16QAM	701.5	25	0	4.548	Pass
		707.5	25	0	4.548	Pass
		713.5	25	0	4.541	Pass
10	QPSK	704	50	0	9.070	Pass
		707.5	50	0	8.993	Pass
		711	50	0	9.033	Pass
	16QAM	704	50	0	9.065	Pass
		707.5	50	0	9.005	Pass
		711	50	0	9.046	Pass

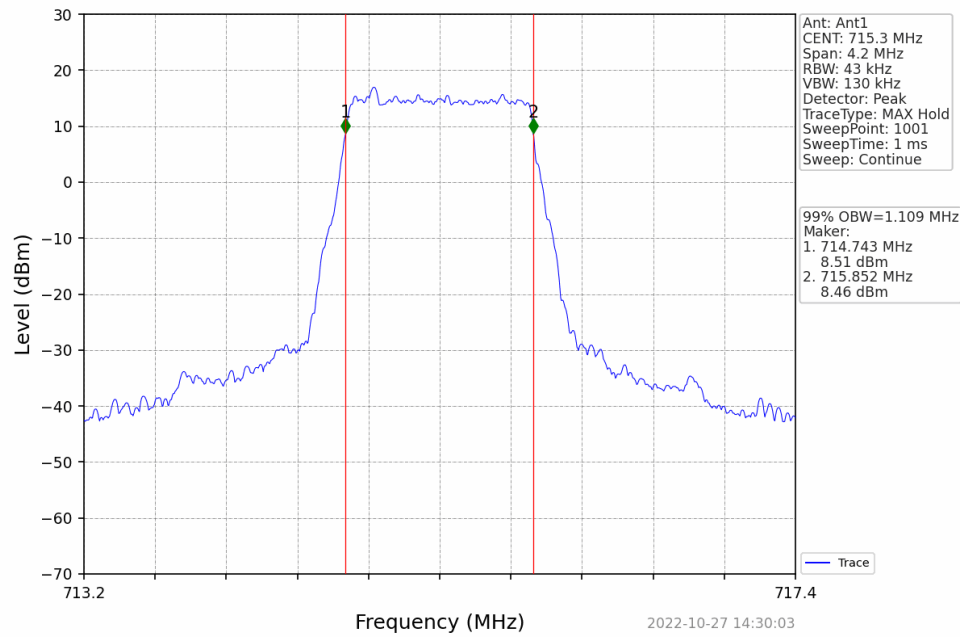


4.1.2 Test Graph

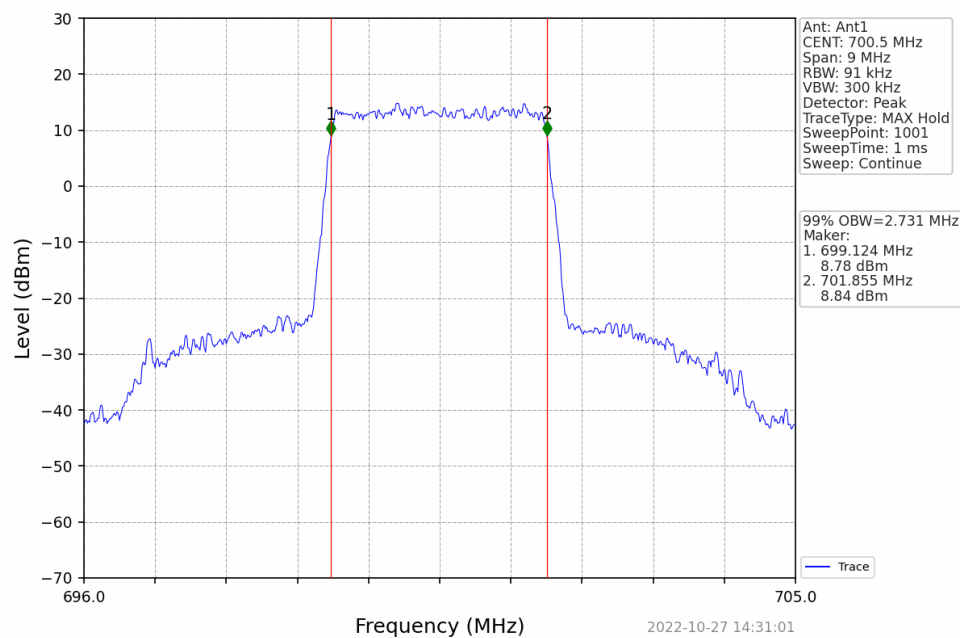




Band12_1.4MHz_64QAM_HCH_715.3MHz_RB_6_0_NTNV

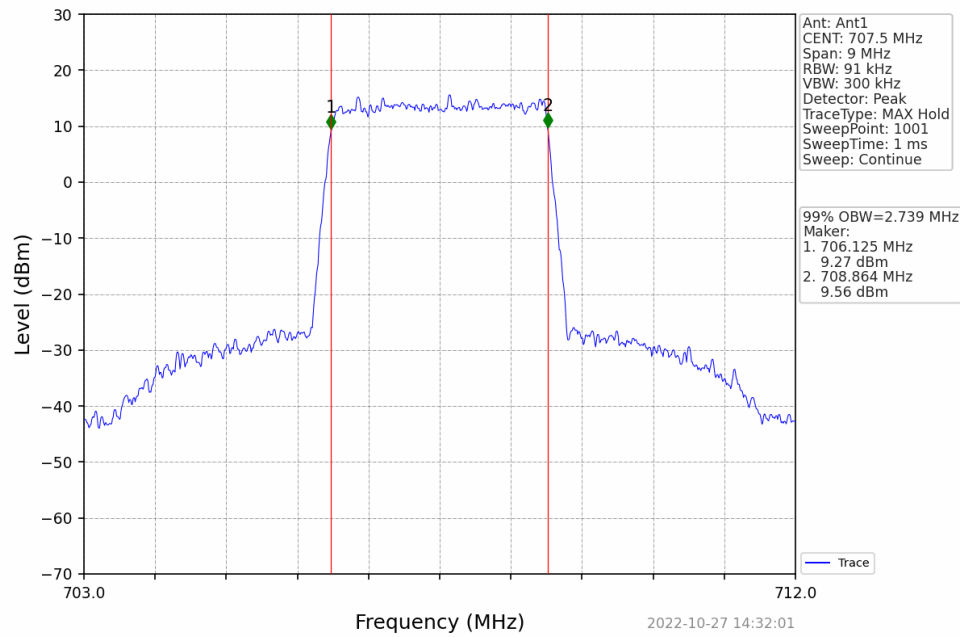


Band12_3MHz_64QAM_LCH_700.5MHz_RB_15_0_NTNV

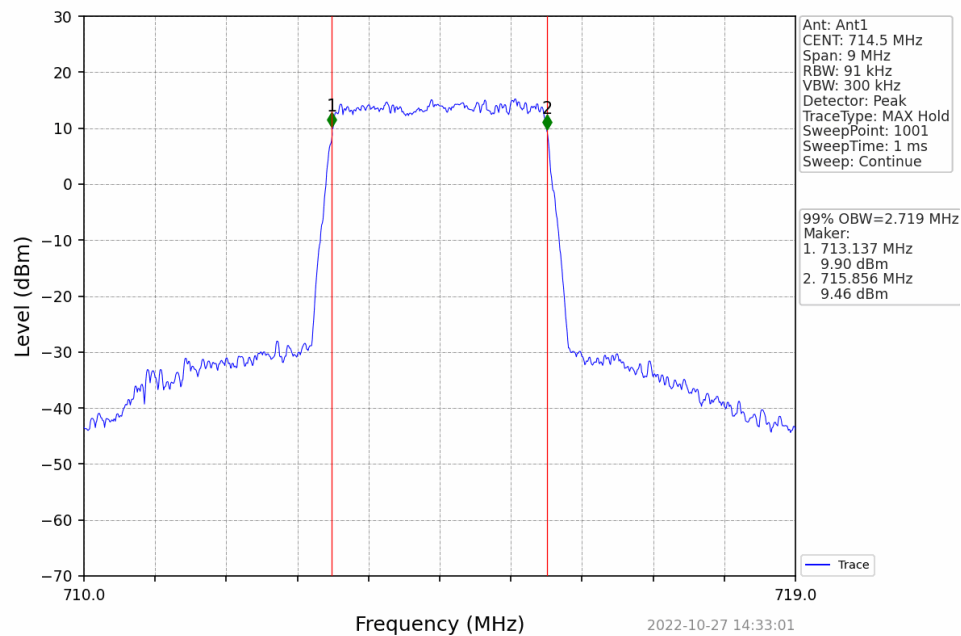




Band12_3MHz_64QAM_MCH_707.5MHz_RB_15_0_NTNV

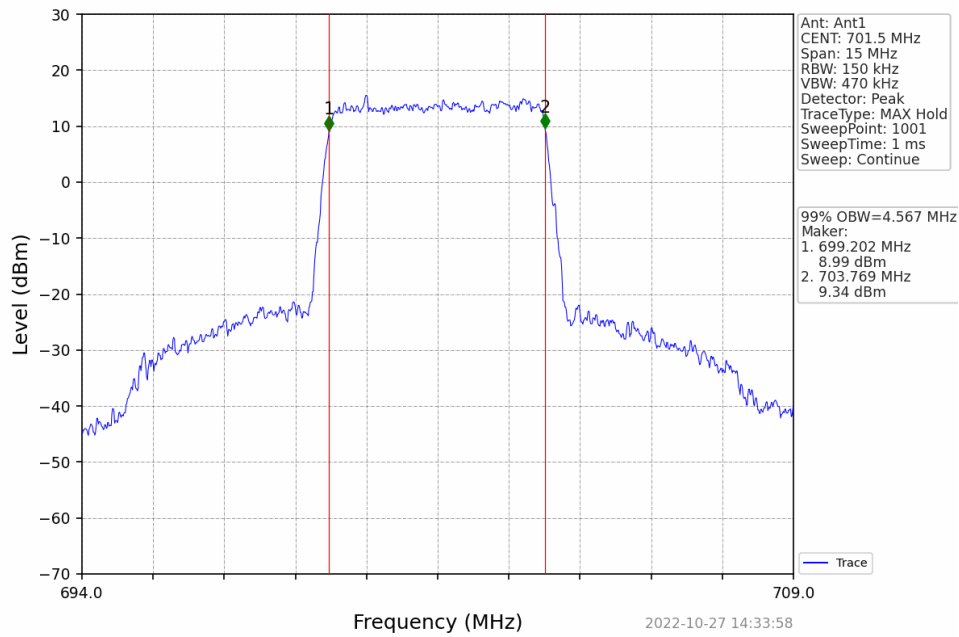


Band12_3MHz_64QAM_HCH_714.5MHz_RB_15_0_NTNV

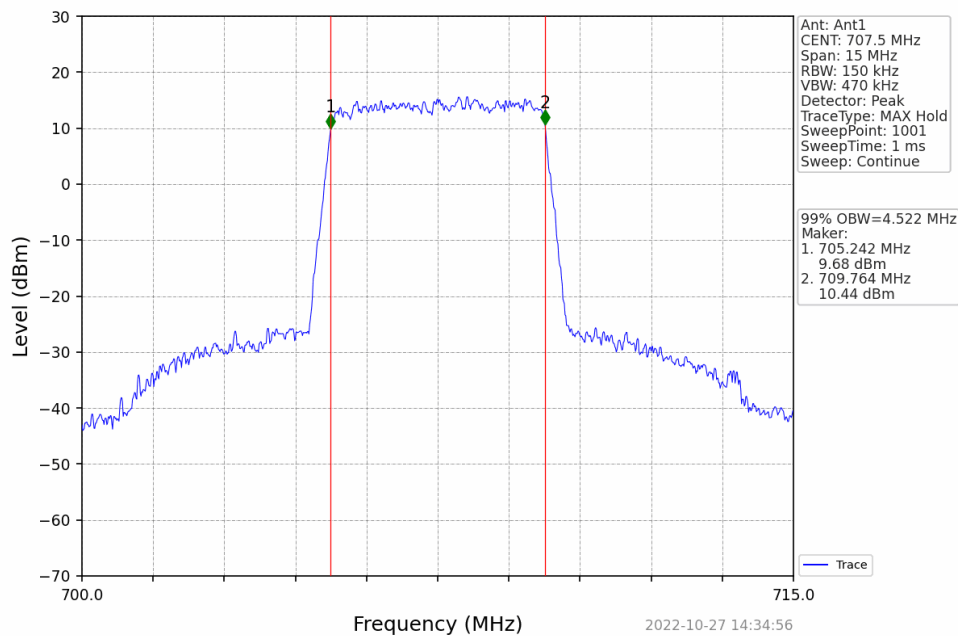


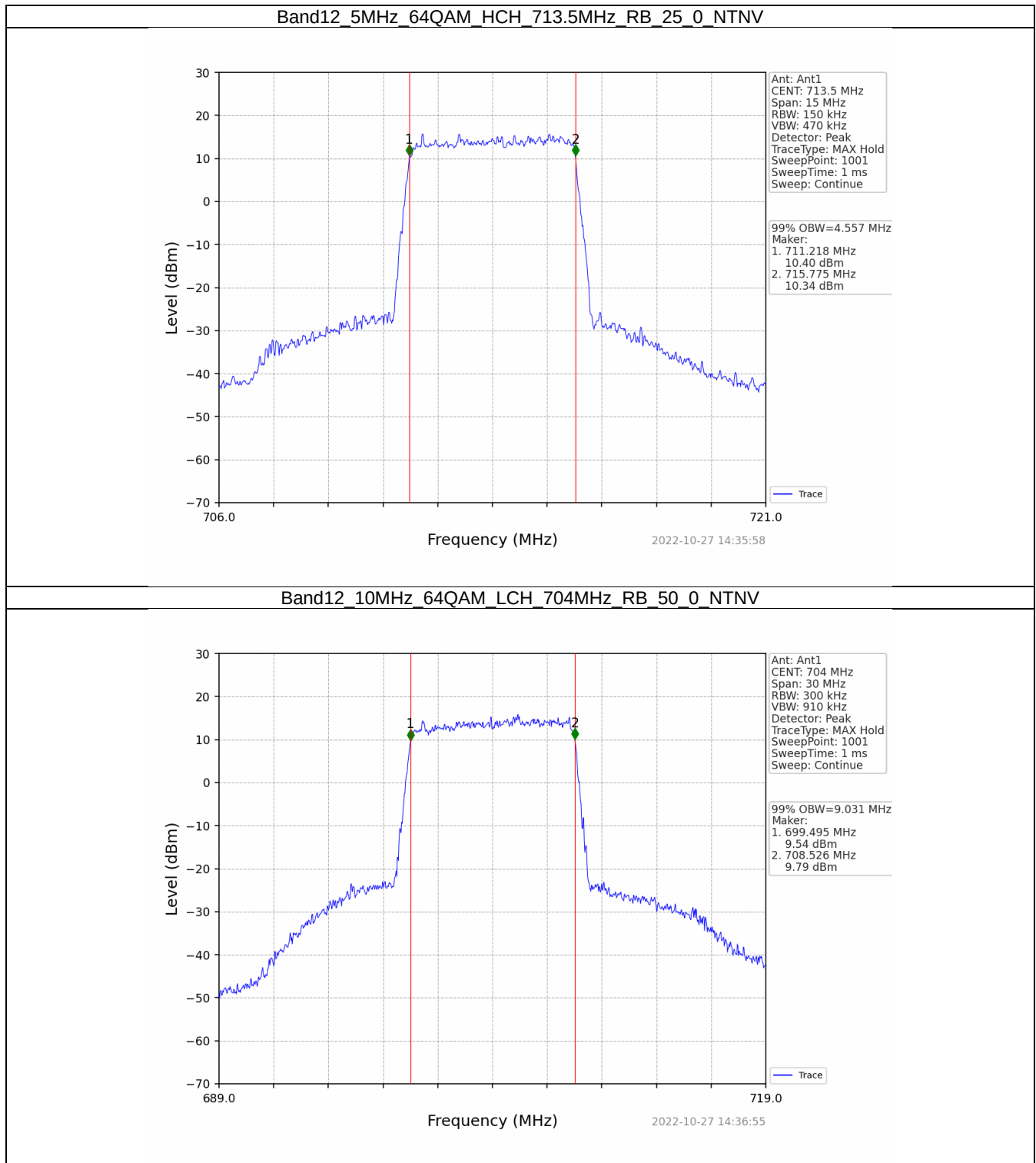


Band12_5MHz_64QAM_LCH_701.5MHz_RB_25_0_NTNV



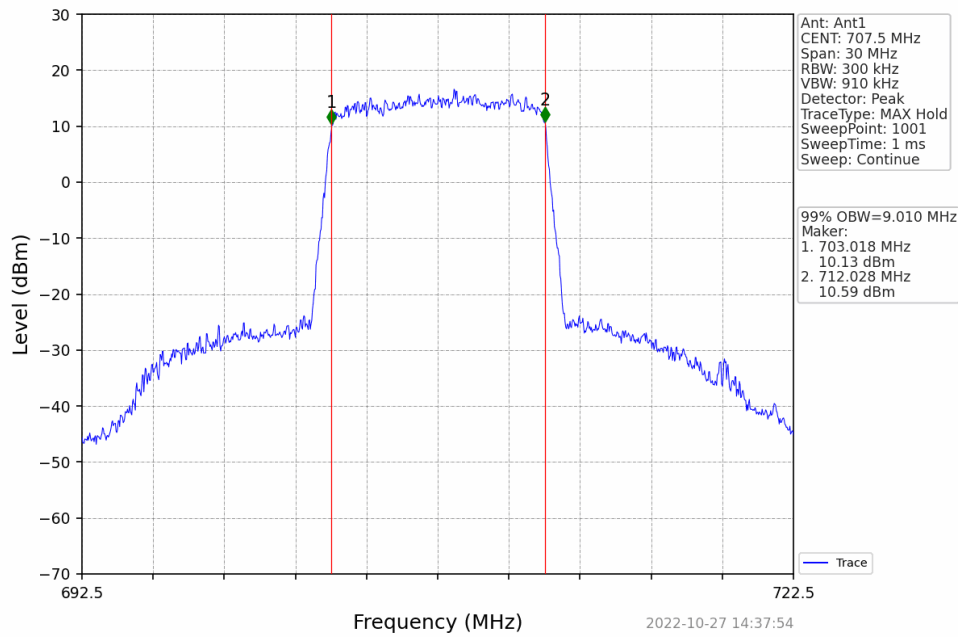
Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



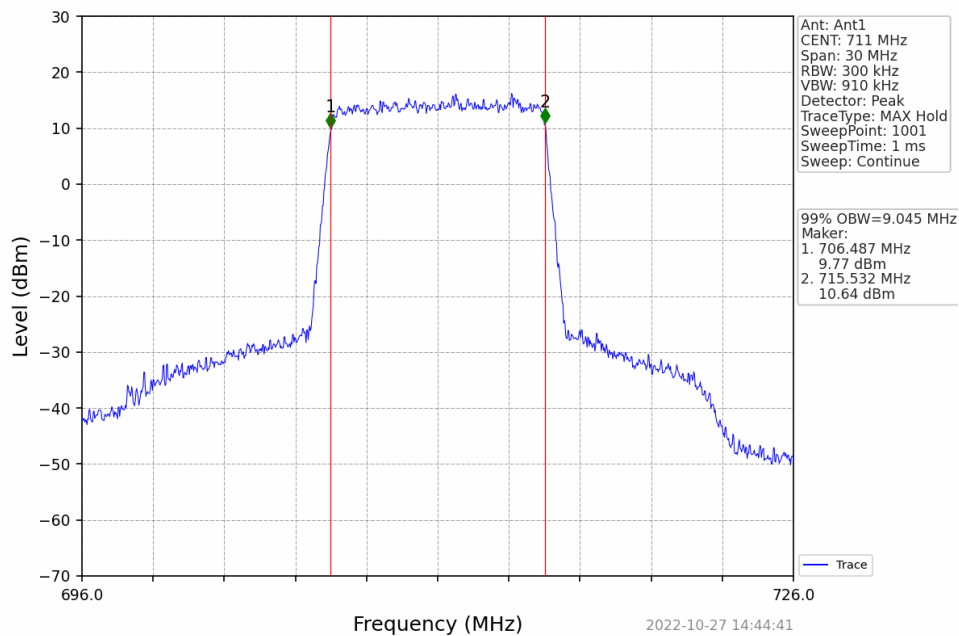




Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV

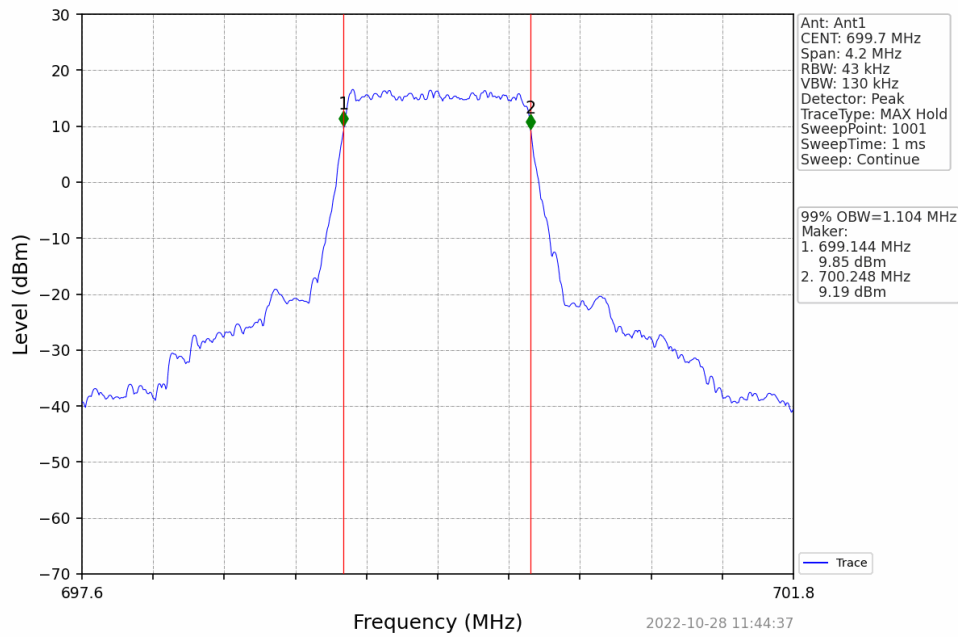


Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV

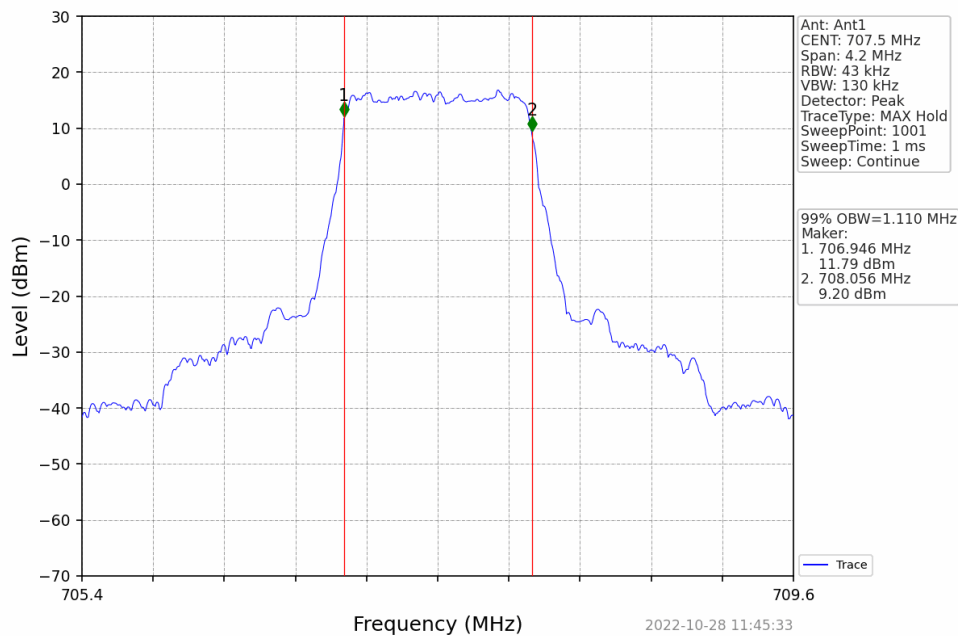




Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

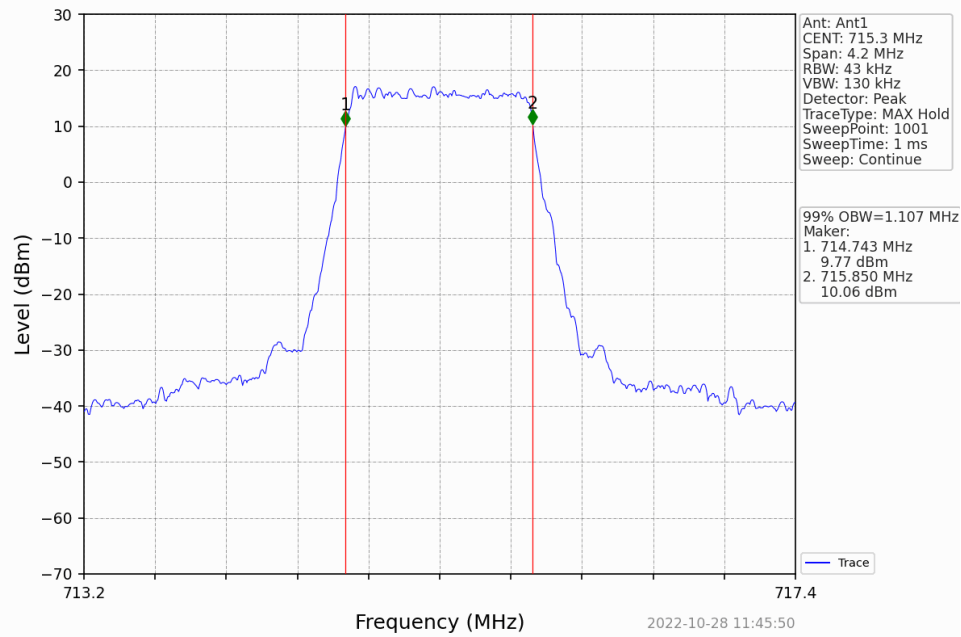


Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV

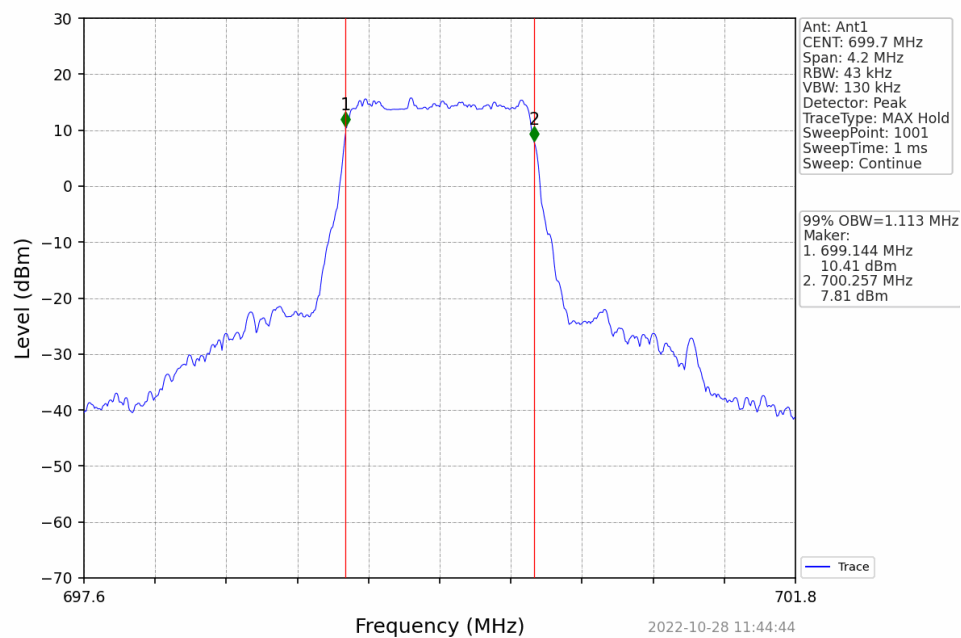




Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV

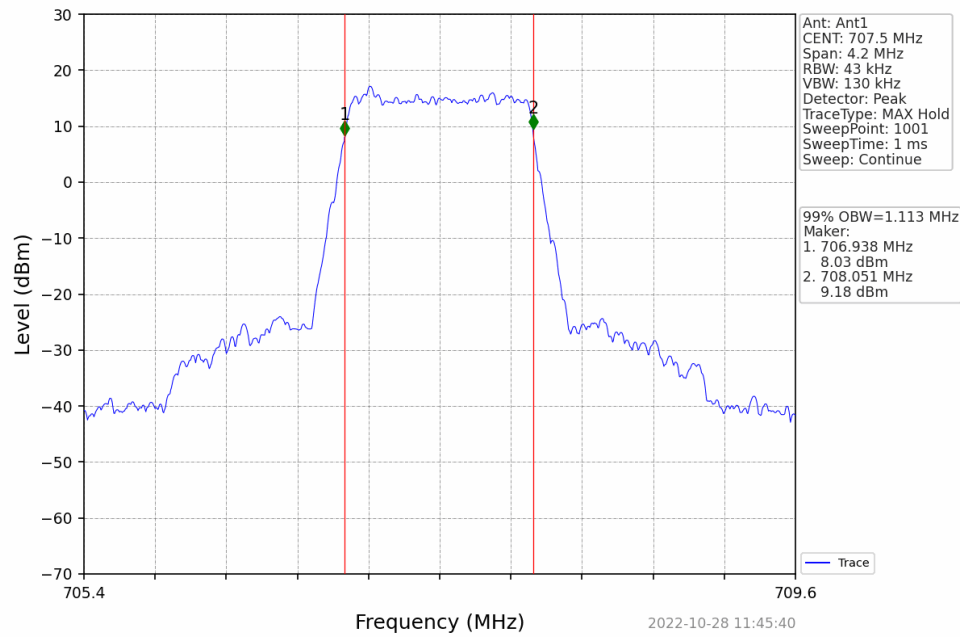


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

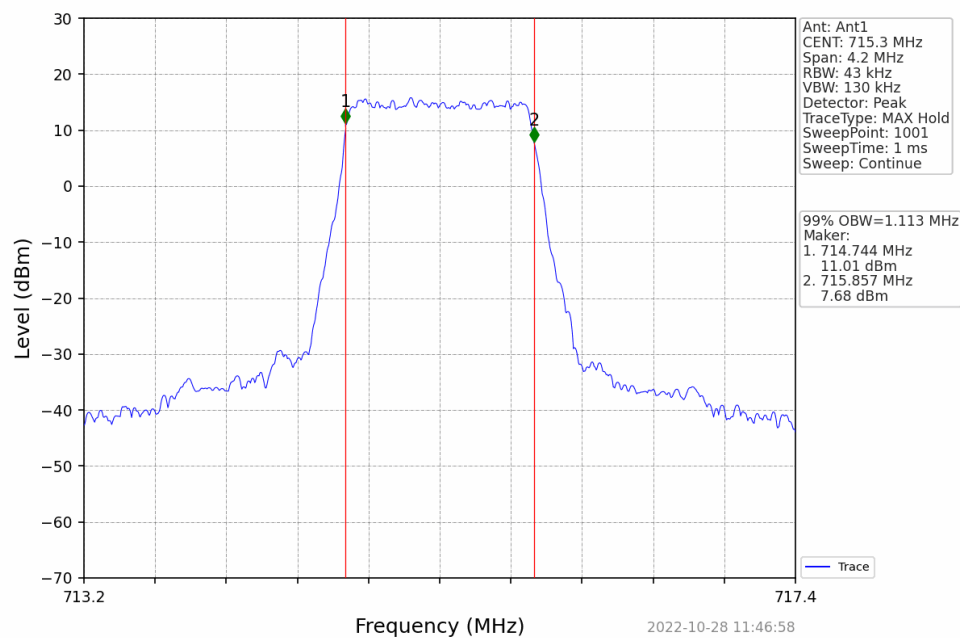




Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV

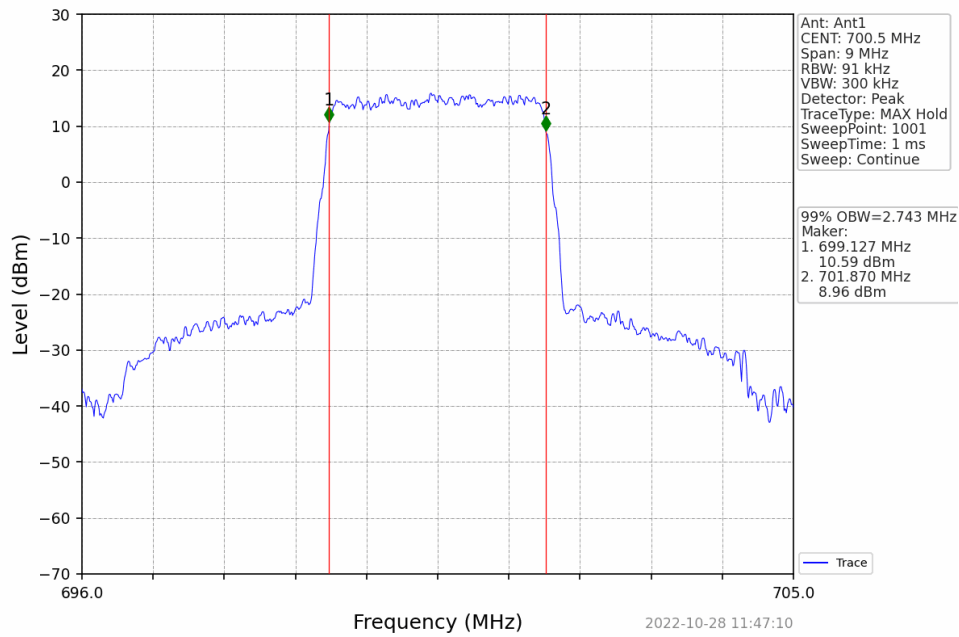


Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

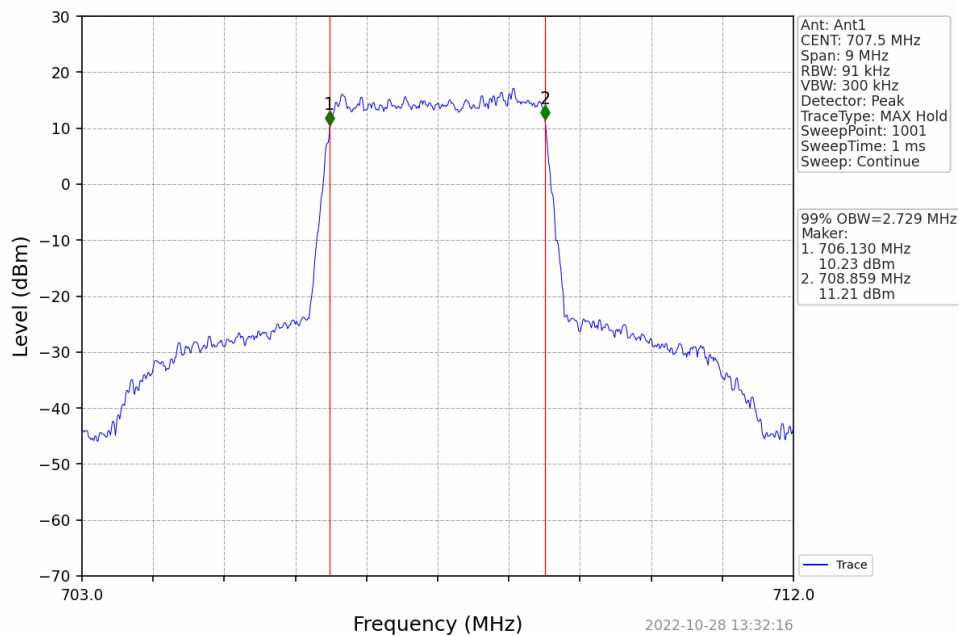




Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

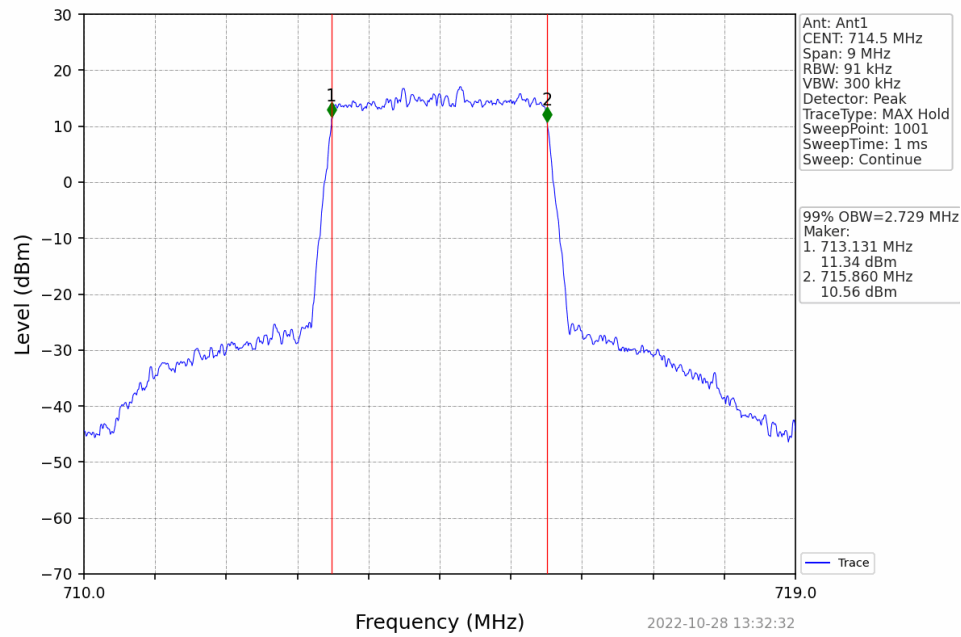


Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV

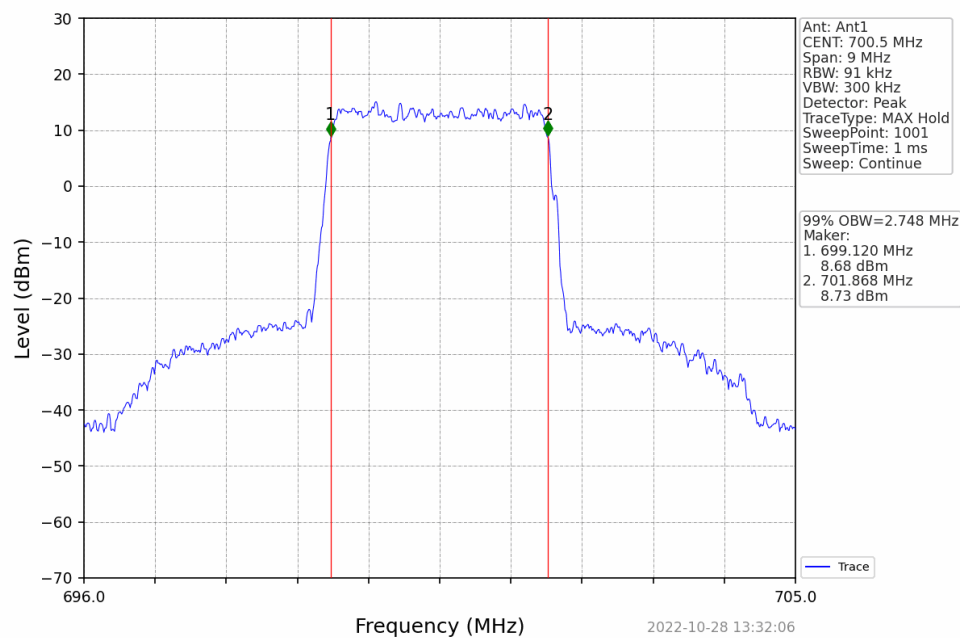




Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV

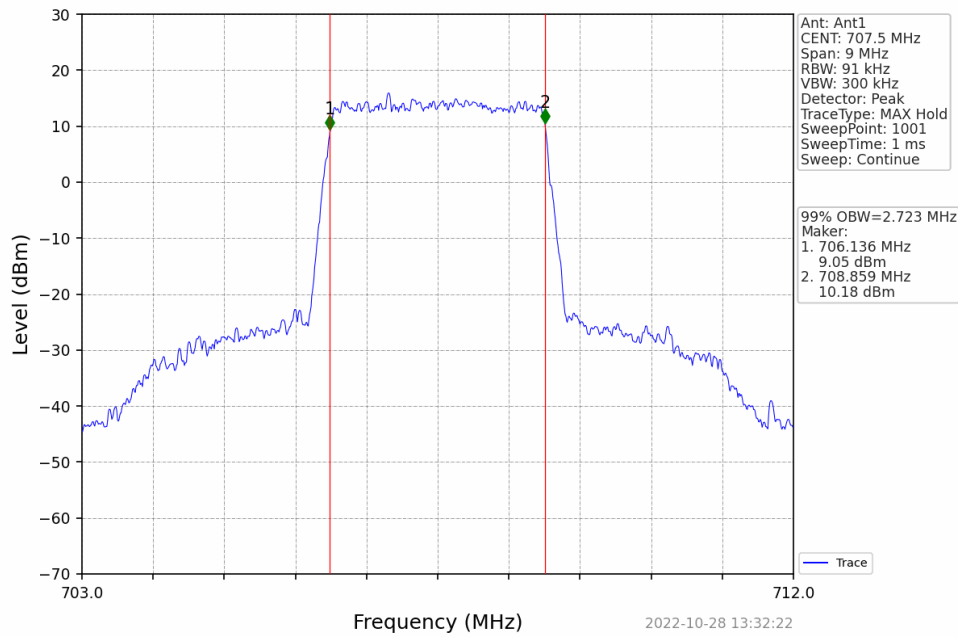


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

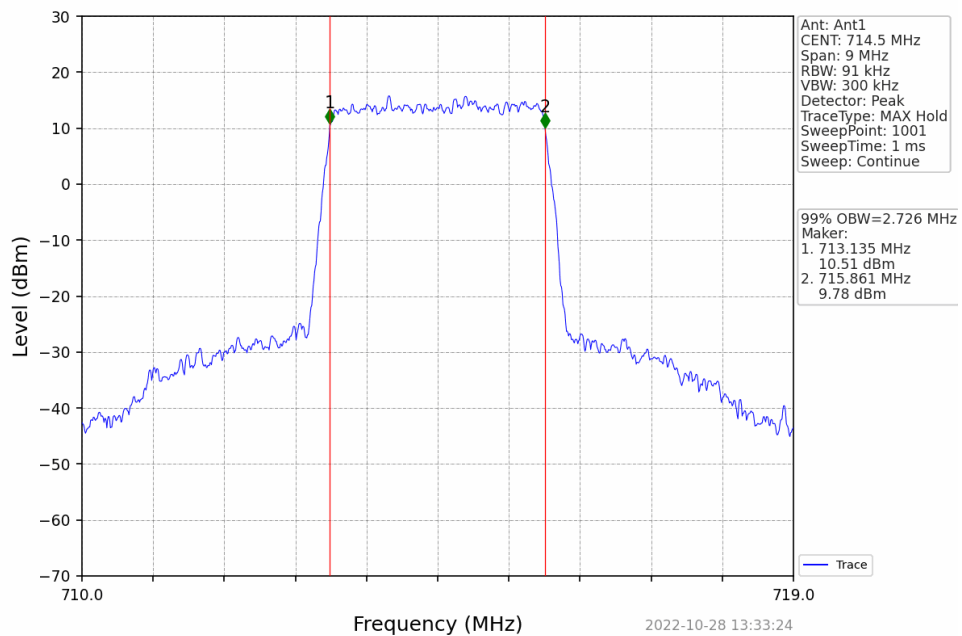




Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV

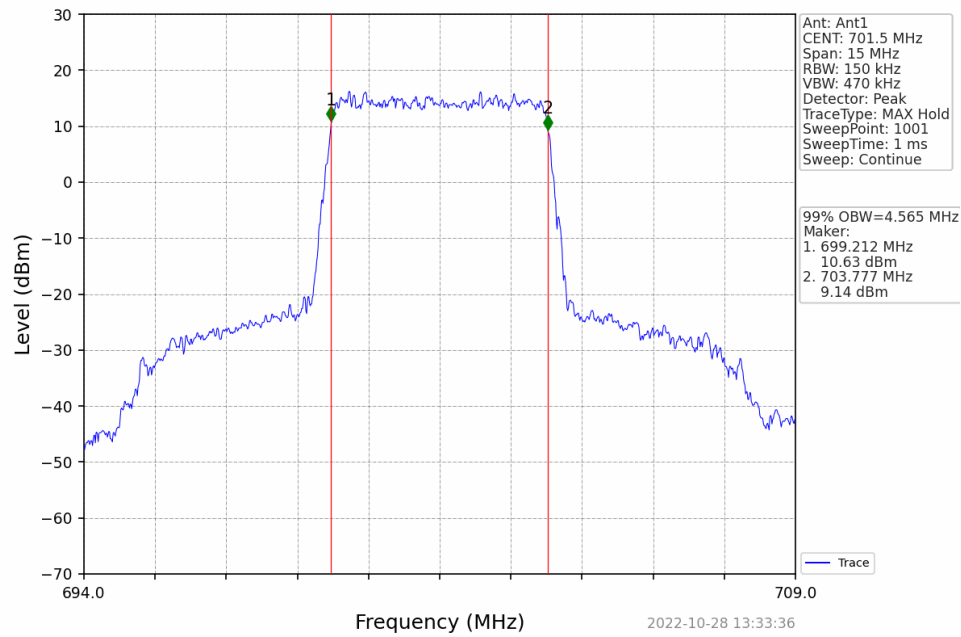


Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

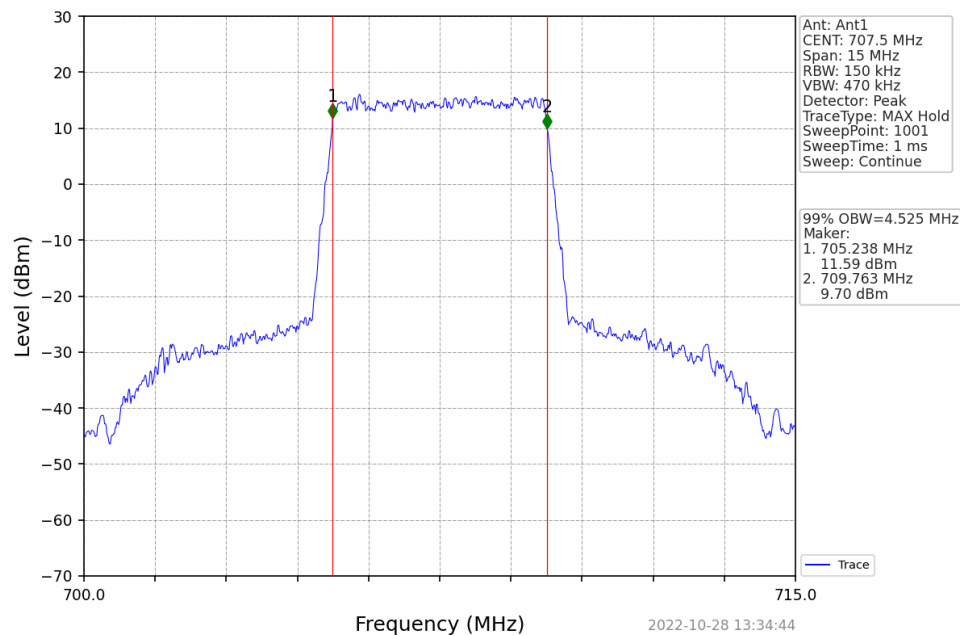




Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

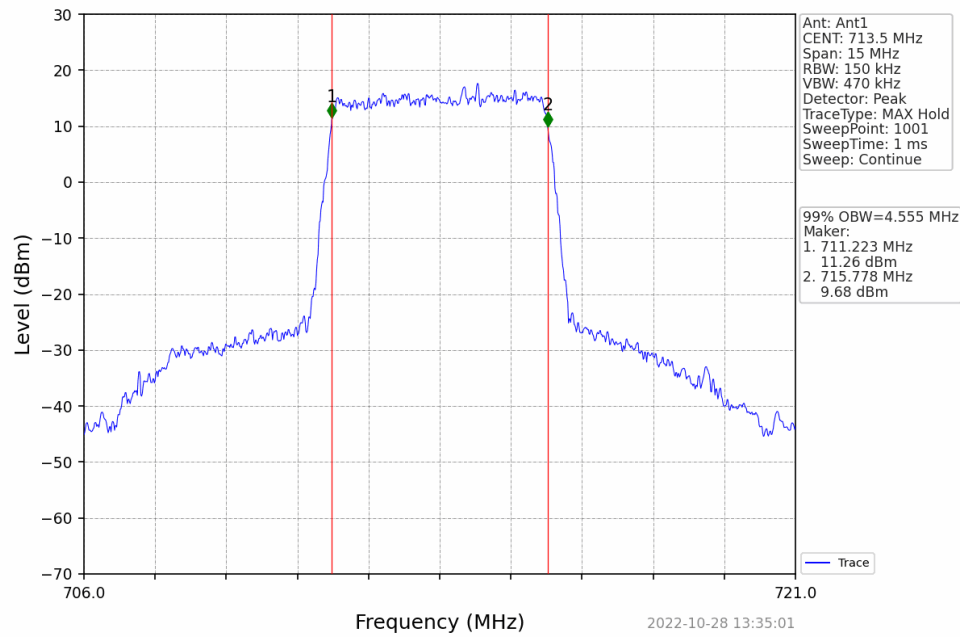


Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV

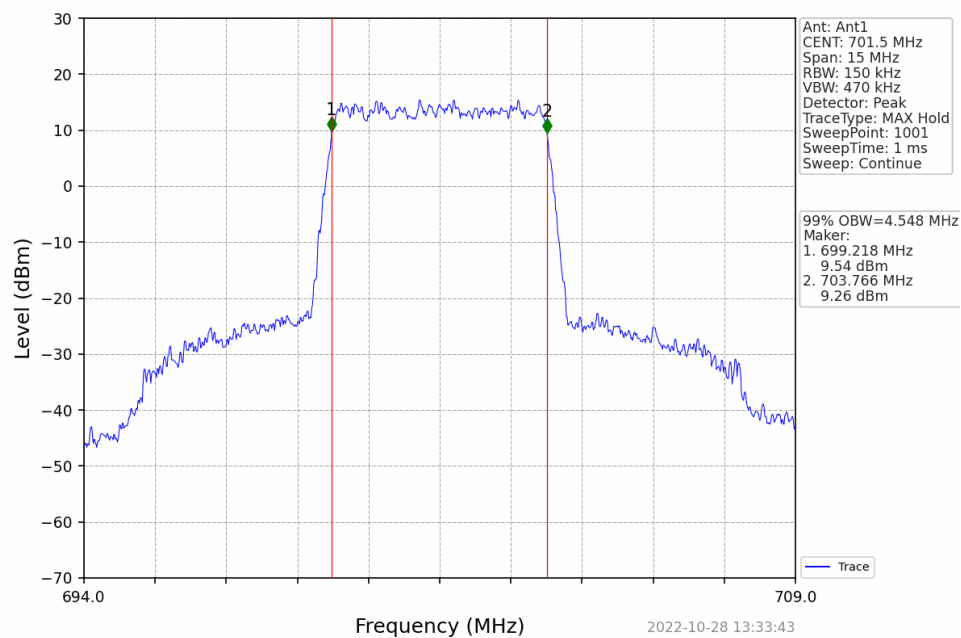




Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

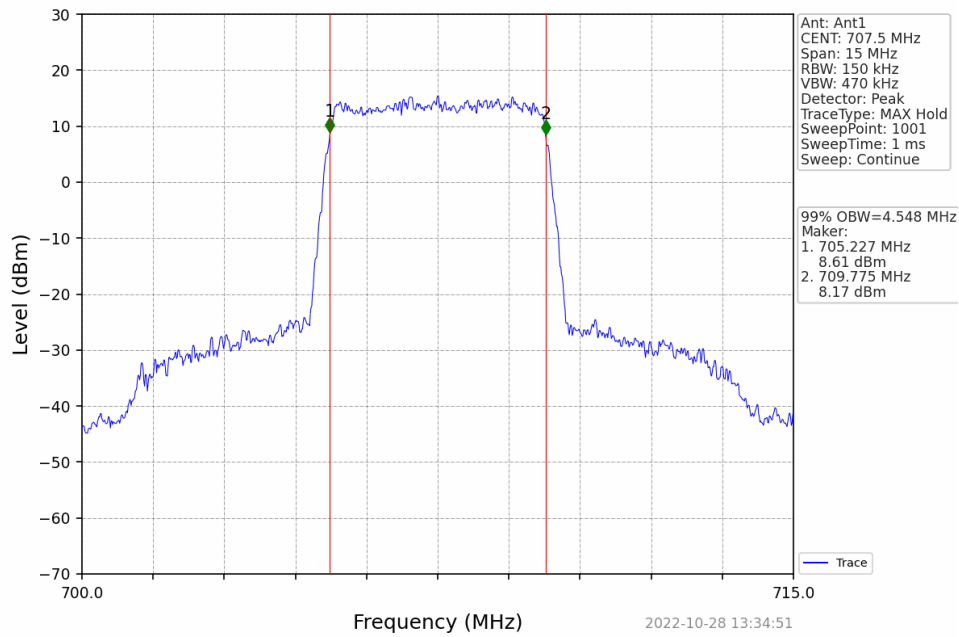


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

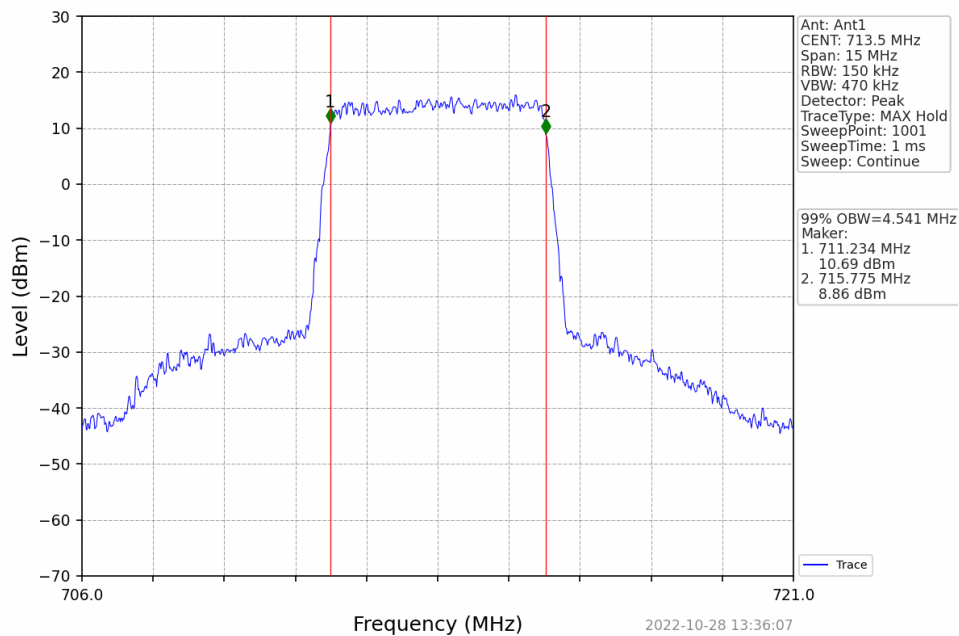




Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV

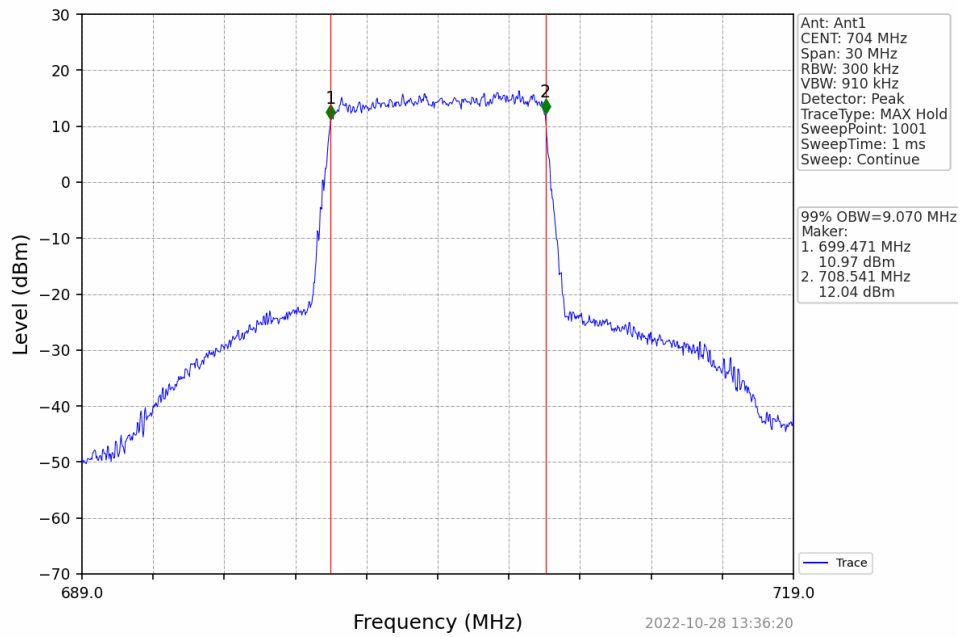


Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

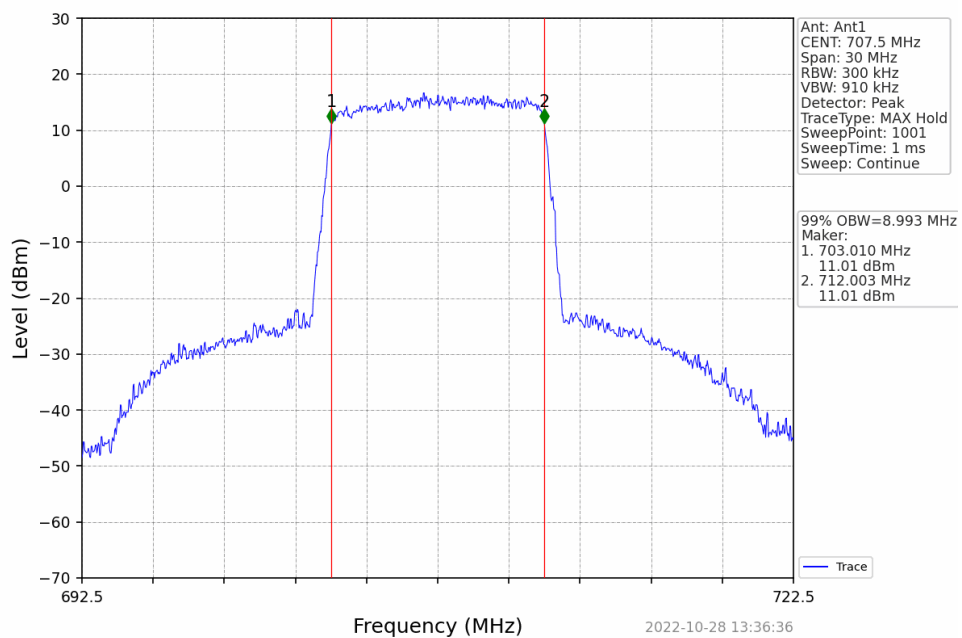




Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

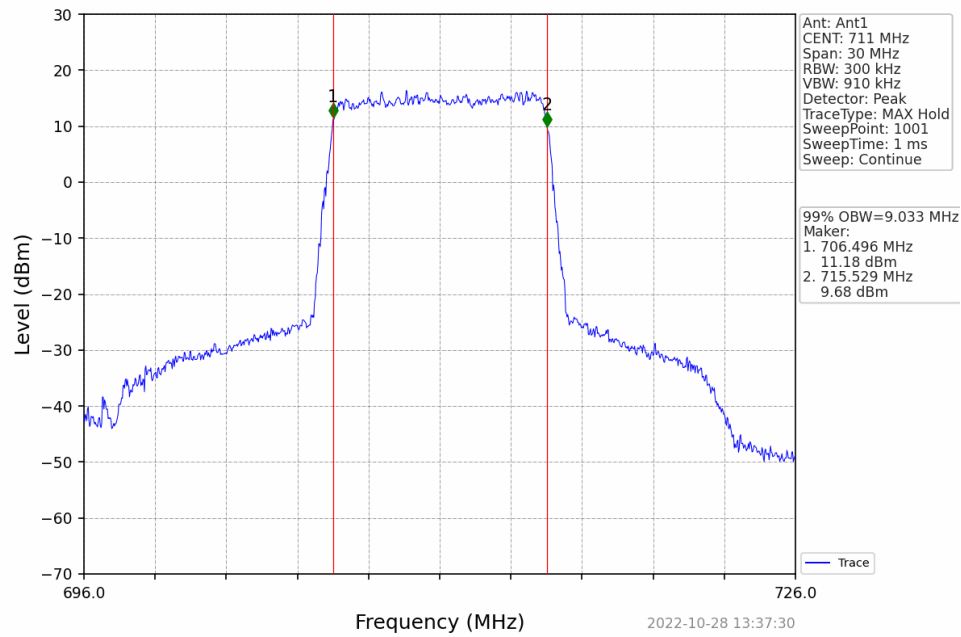


Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV

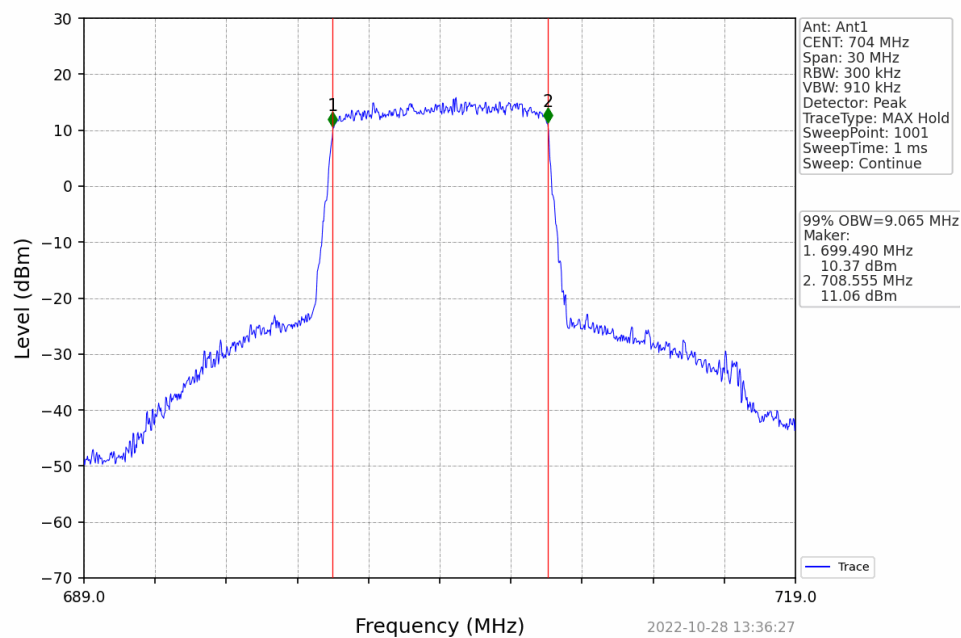




Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

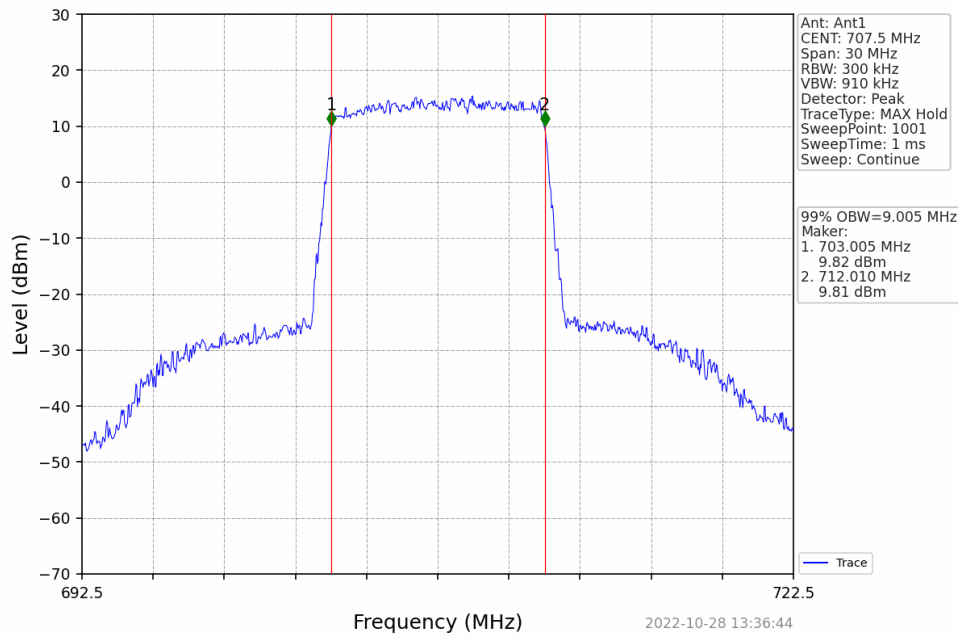


Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

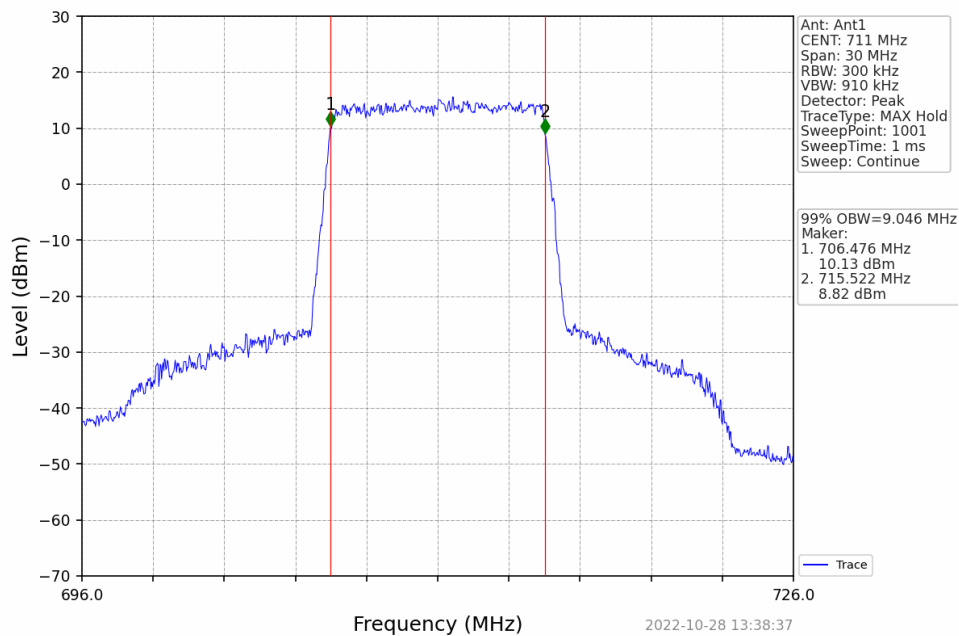




Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV





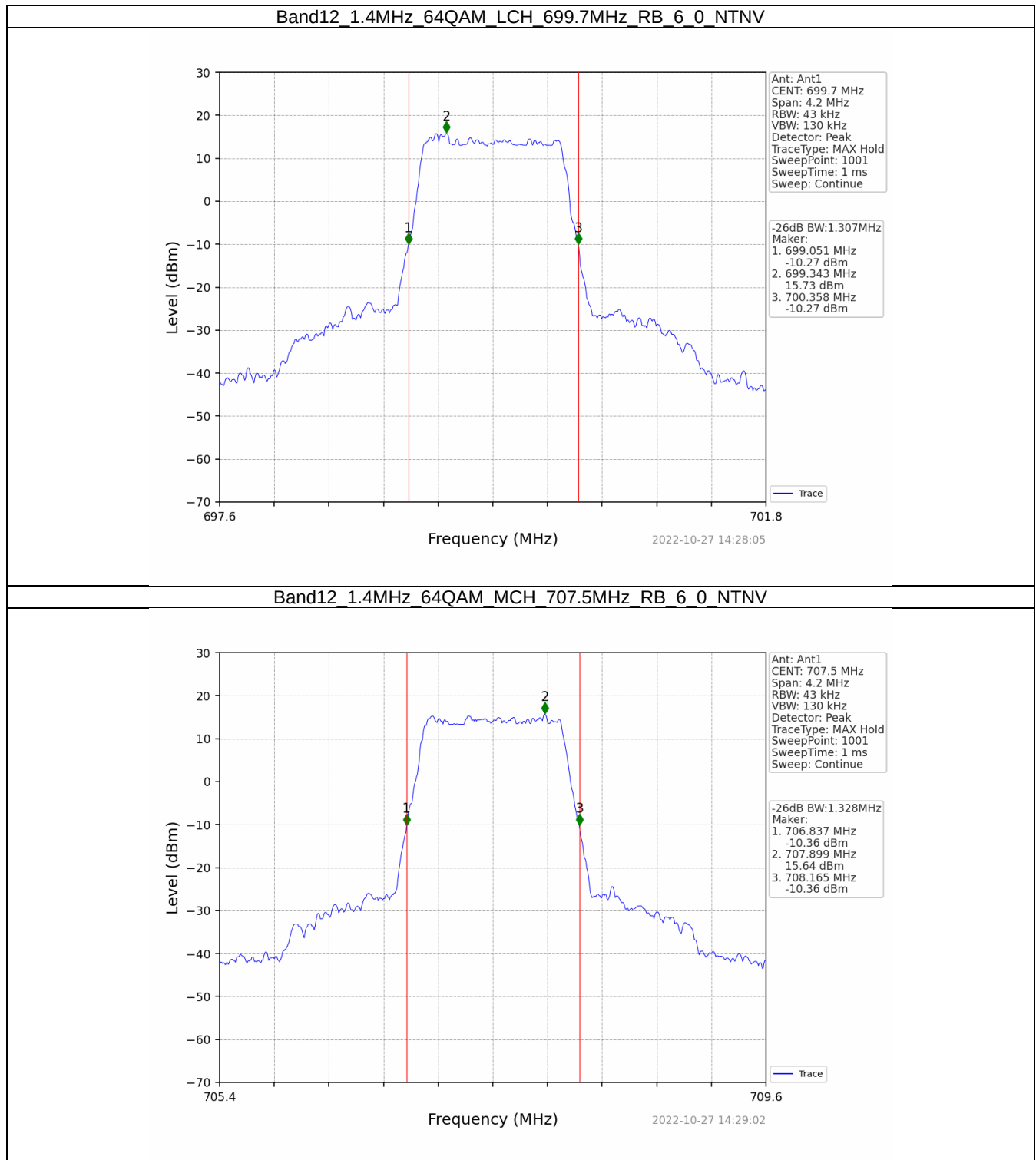
4.2 Band12_XDB

4.2.1 Test Result

Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	64QAM	699.7	6	0	1.307	Pass
		707.5	6	0	1.328	Pass
		715.3	6	0	1.324	Pass
3	64QAM	700.5	15	0	3.042	Pass
		707.5	15	0	3.027	Pass
		714.5	15	0	3.034	Pass
5	64QAM	701.5	25	0	5.071	Pass
		707.5	25	0	5.064	Pass
		713.5	25	0	5.096	Pass
10	64QAM	704	50	0	10.019	Pass
		707.5	50	0	9.950	Pass
		711	50	0	9.953	Pass
1.4	QPSK	699.7	6	0	1.317	Pass
		707.5	6	0	1.318	Pass
		715.3	6	0	1.326	Pass
	16QAM	699.7	6	0	1.322	Pass
		707.5	6	0	1.313	Pass
		715.3	6	0	1.301	Pass
3	QPSK	700.5	15	0	3.073	Pass
		707.5	15	0	3.012	Pass
		714.5	15	0	3.023	Pass
	16QAM	700.5	15	0	3.036	Pass
		707.5	15	0	3.030	Pass
		714.5	15	0	3.038	Pass
5	QPSK	701.5	25	0	5.117	Pass
		707.5	25	0	5.060	Pass
		713.5	25	0	5.083	Pass
	16QAM	701.5	25	0	5.098	Pass
		707.5	25	0	5.080	Pass
		713.5	25	0	5.047	Pass
10	QPSK	704	50	0	10.085	Pass
		707.5	50	0	9.967	Pass
		711	50	0	10.011	Pass
	16QAM	704	50	0	9.963	Pass
		707.5	50	0	9.923	Pass
		711	50	0	10.011	Pass

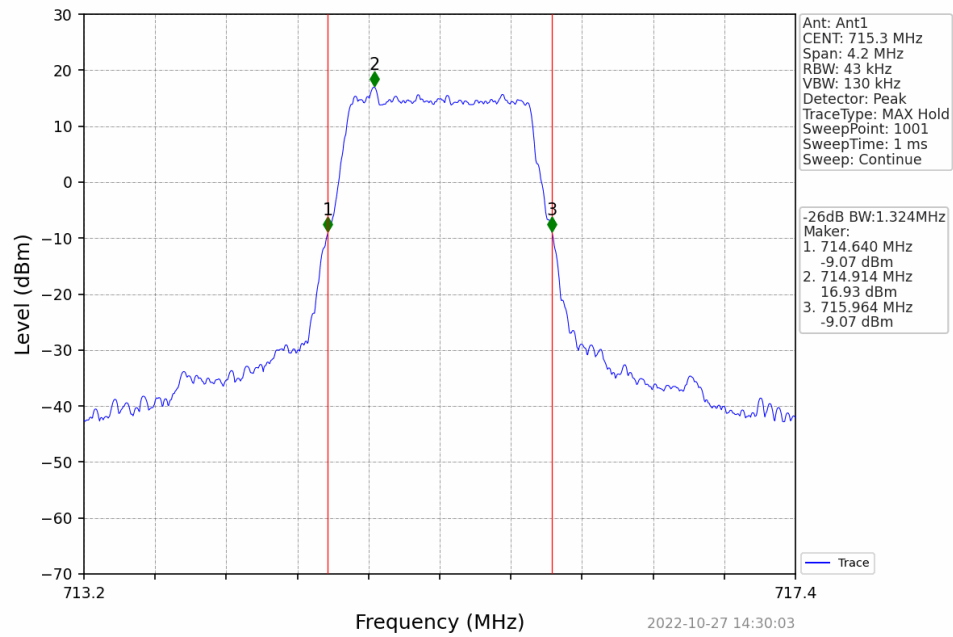


4.2.2 Test Graph

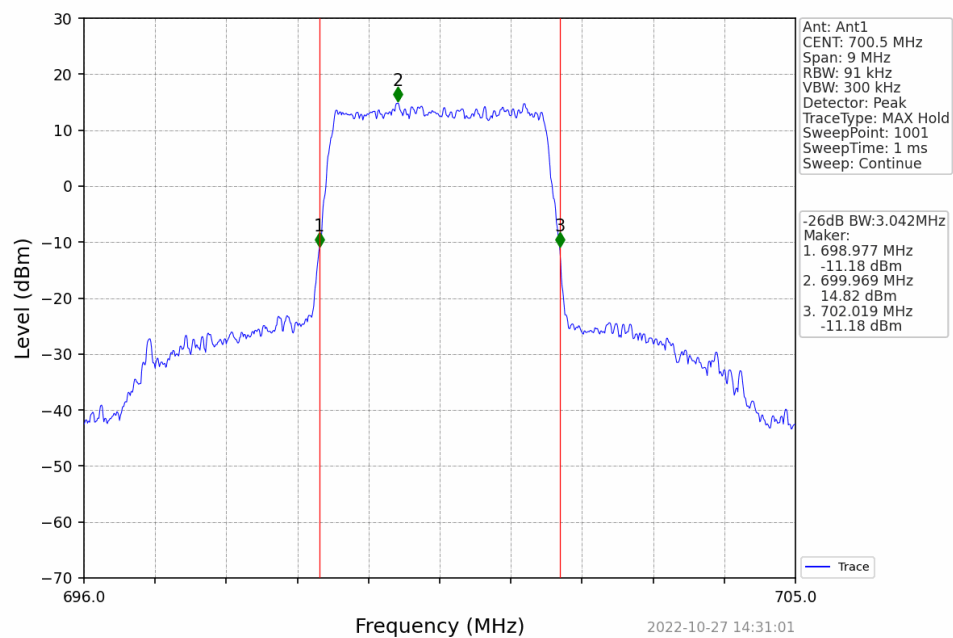




Band12_1.4MHz_64QAM_HCH_715.3MHz_RB_6_0_NTNV

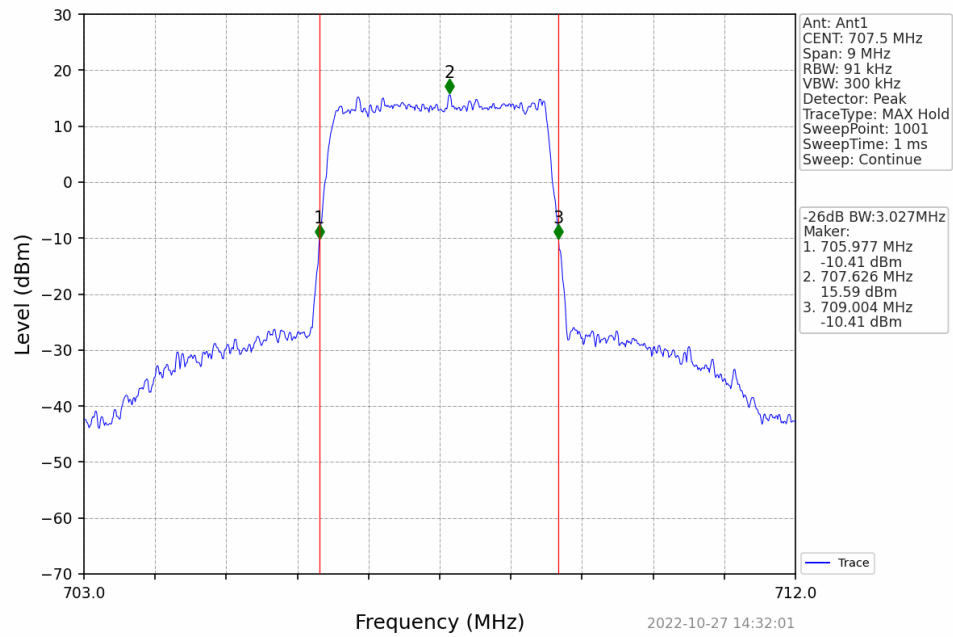


Band12_3MHz_64QAM_LCH_700.5MHz_RB_15_0_NTNV

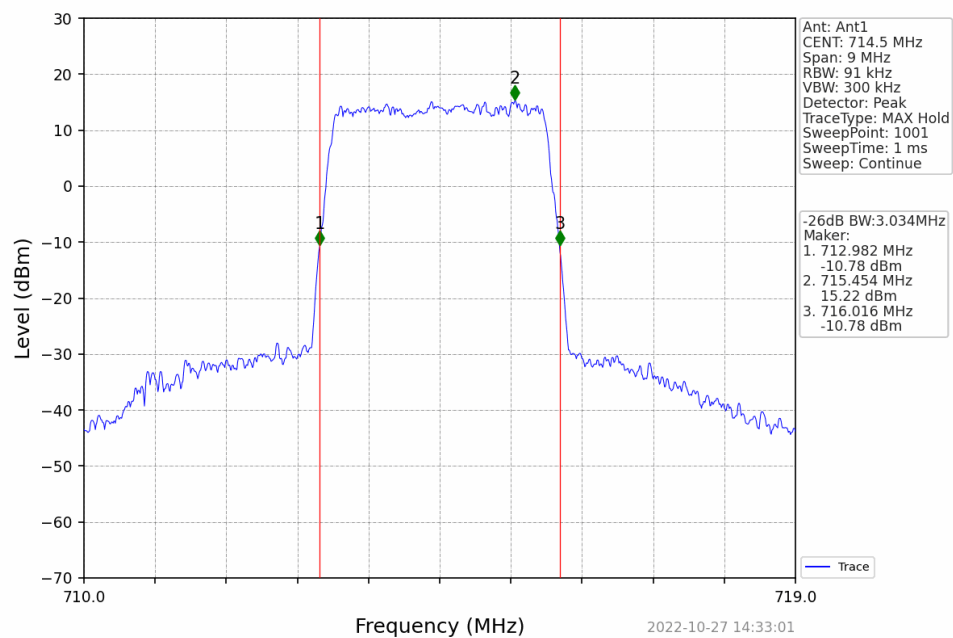




Band12_3MHz_64QAM_MCH_707.5MHz_RB_15_0_NTNV

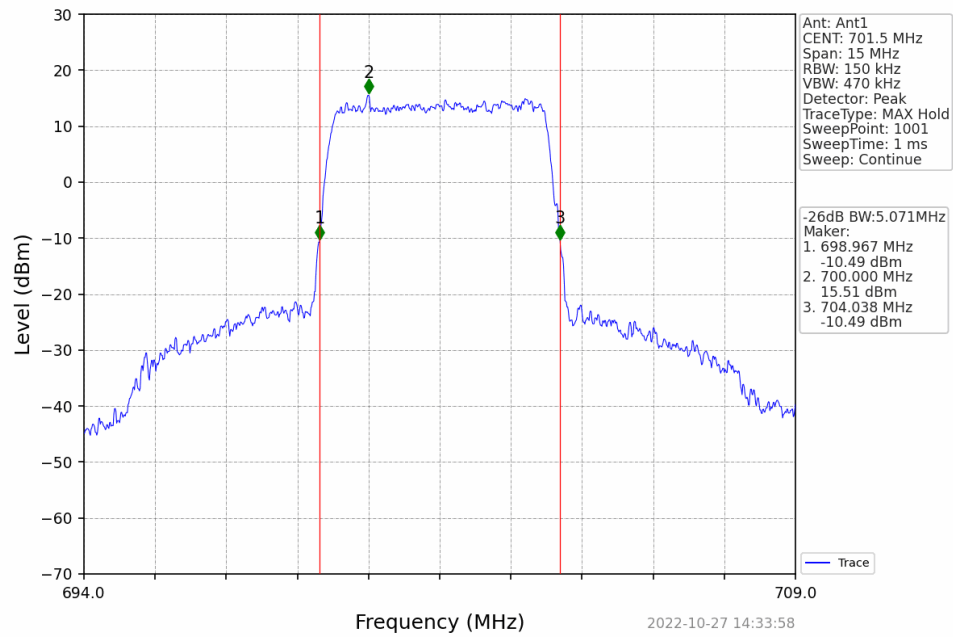


Band12_3MHz_64QAM_HCH_714.5MHz_RB_15_0_NTNV

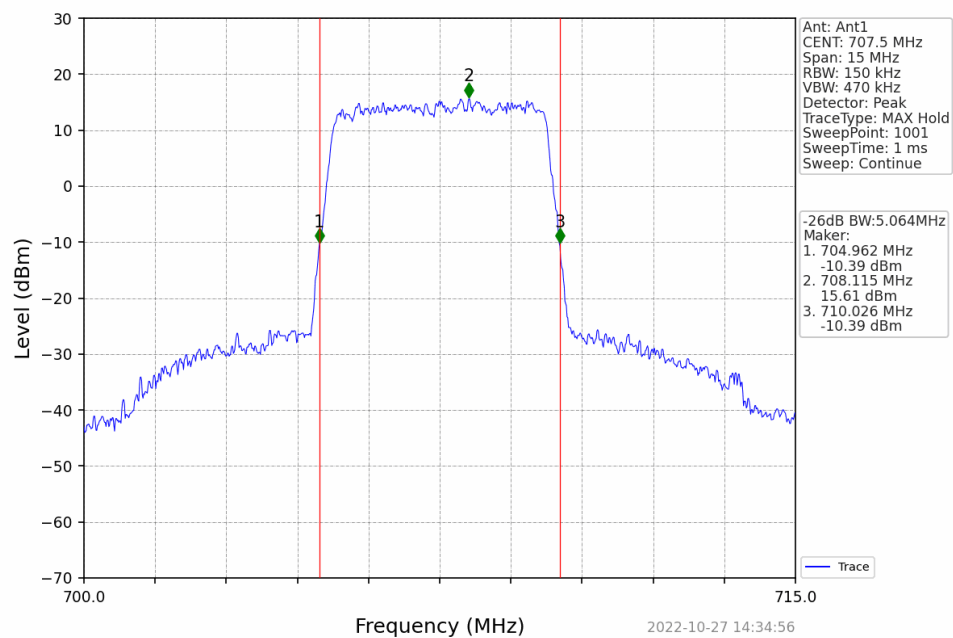




Band12_5MHz_64QAM_LCH_701.5MHz_RB_25_0_NTNV

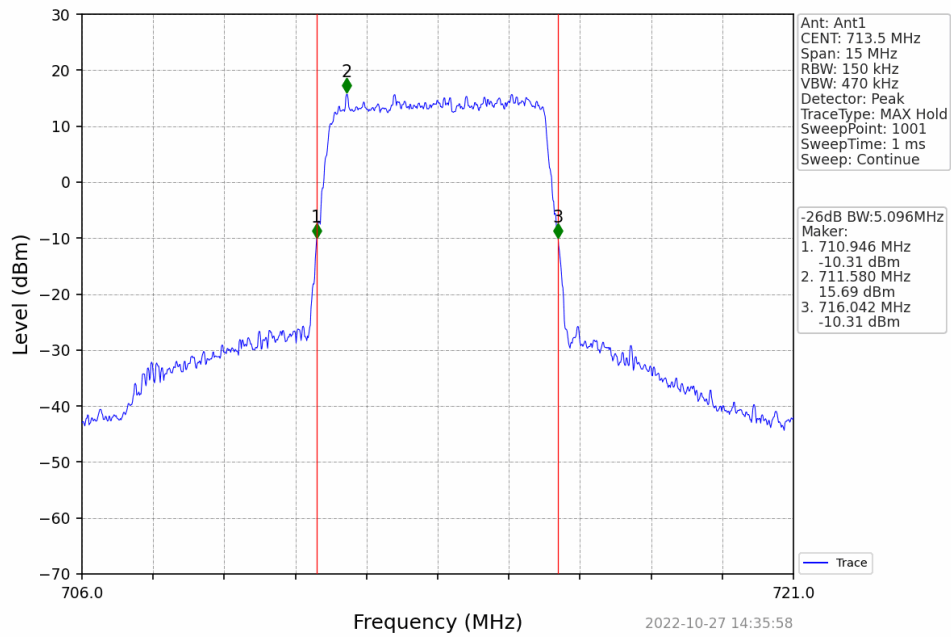


Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV

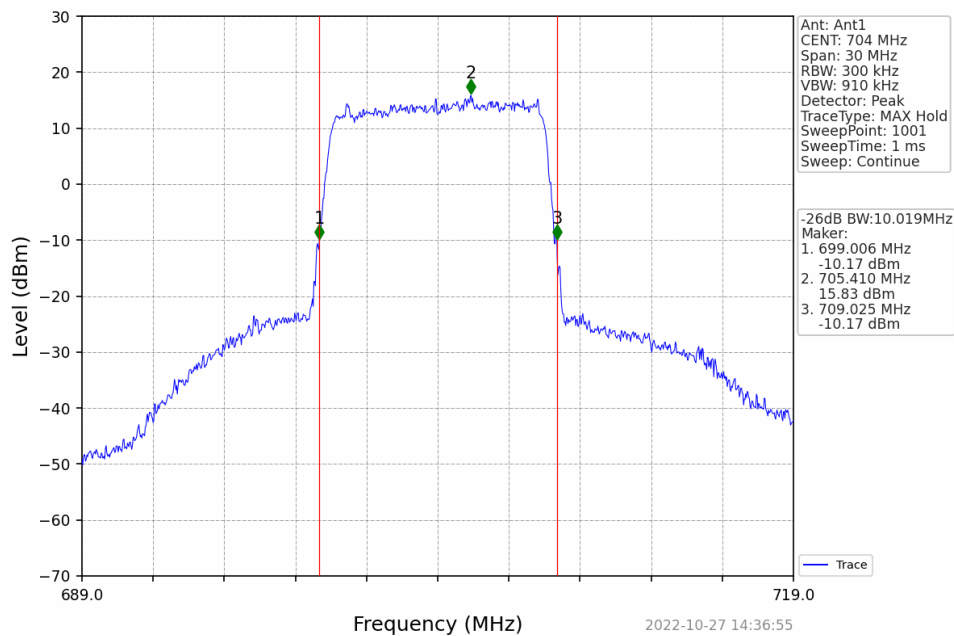




Band12_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV

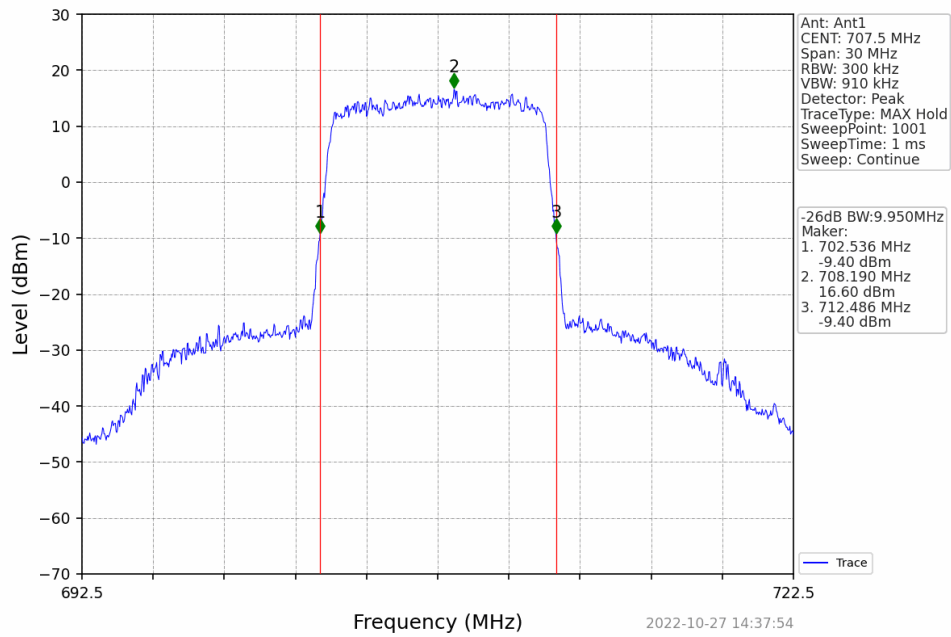


Band12_10MHz_64QAM_LCH_704MHz_RB_50_0_NTNV

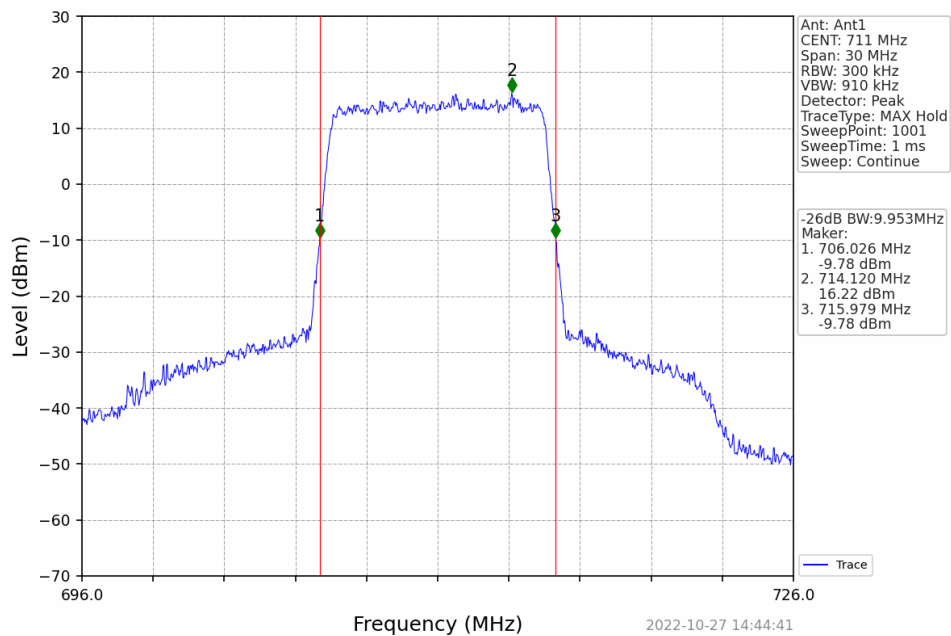




Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV

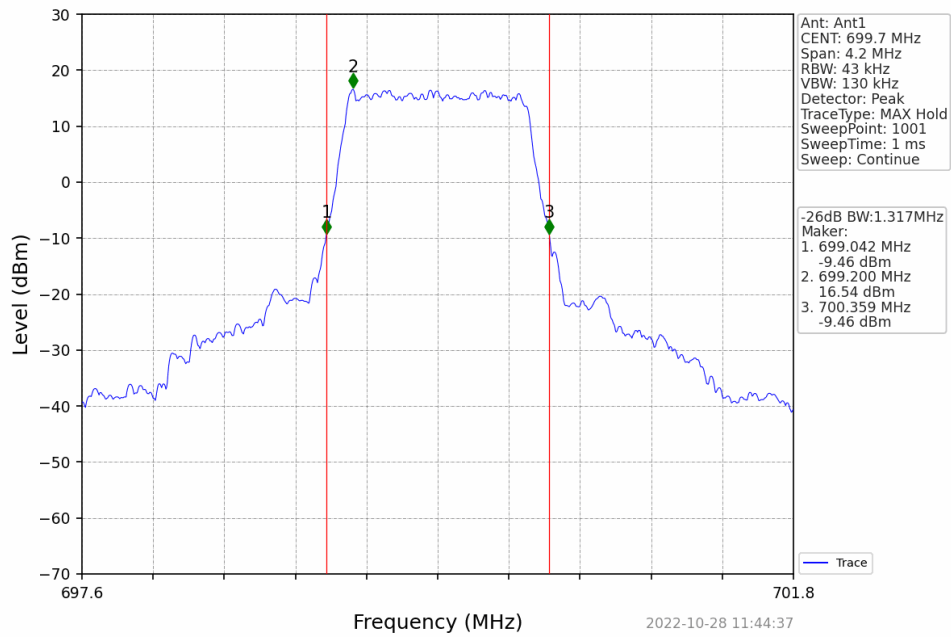


Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV

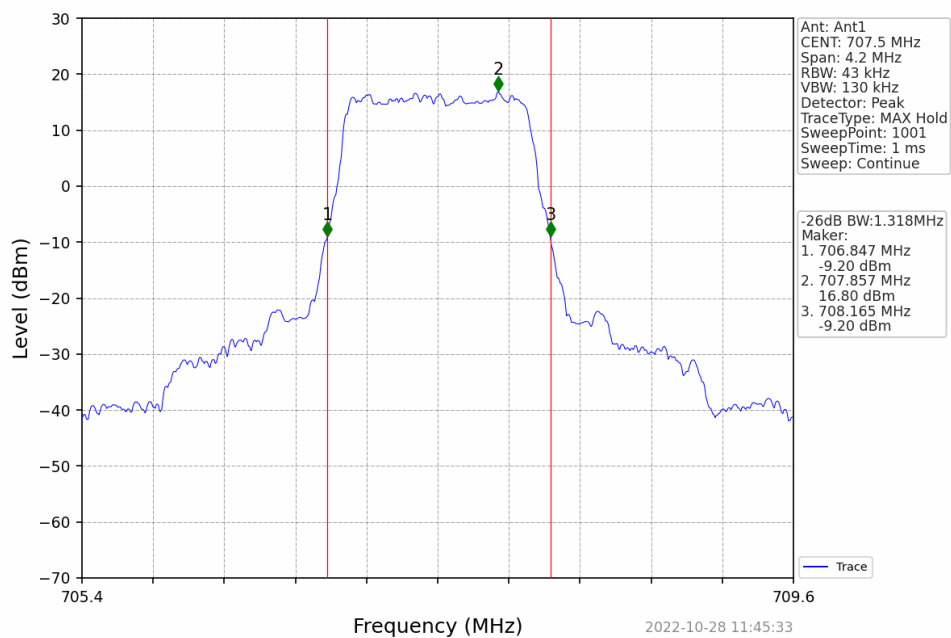




Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

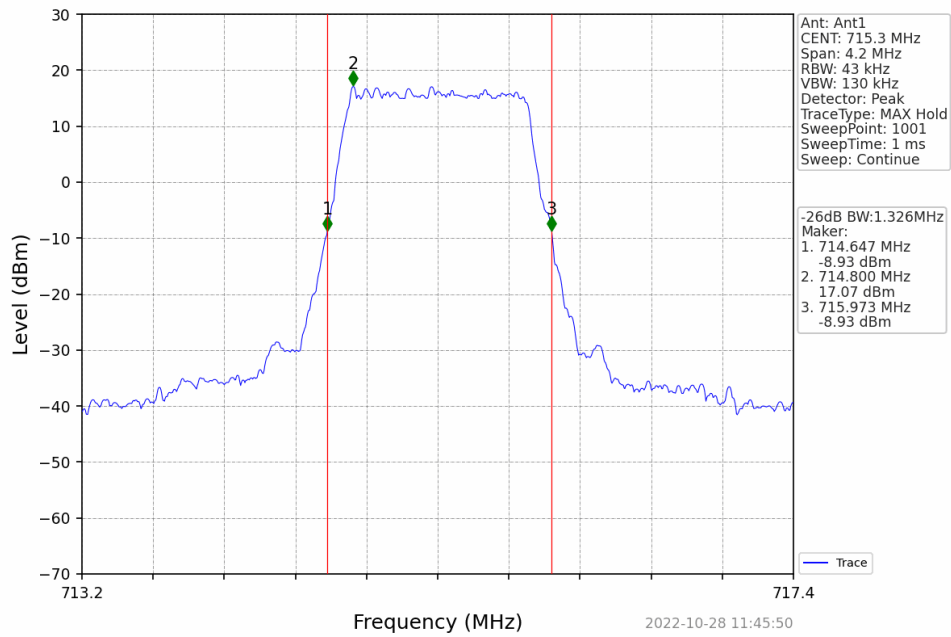


Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV

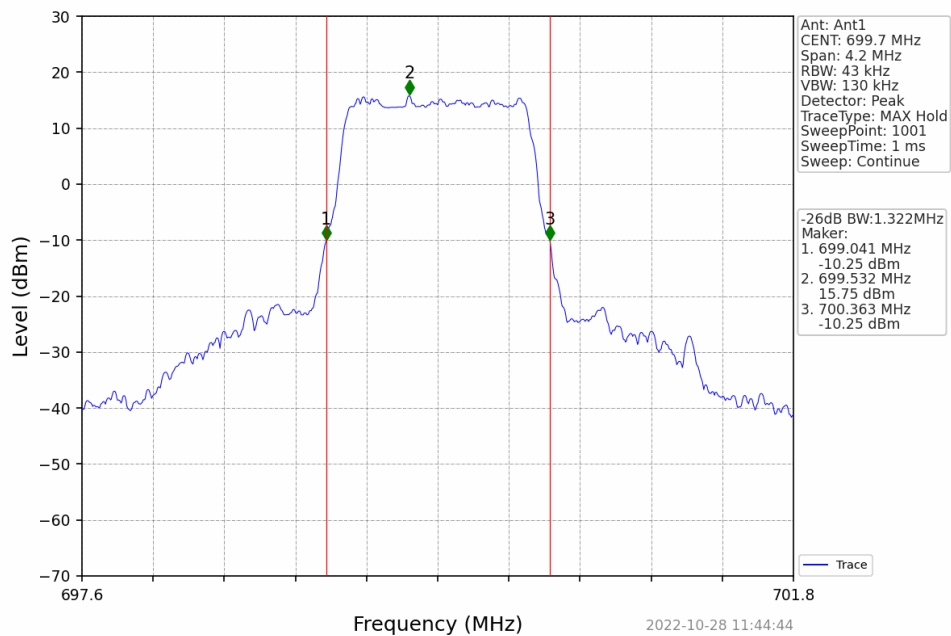




Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV

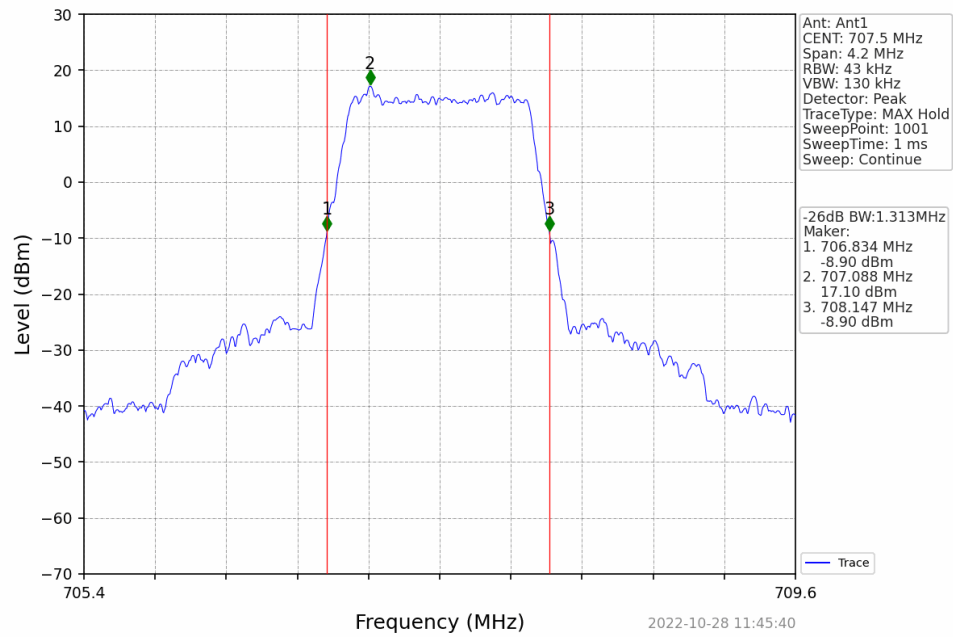


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

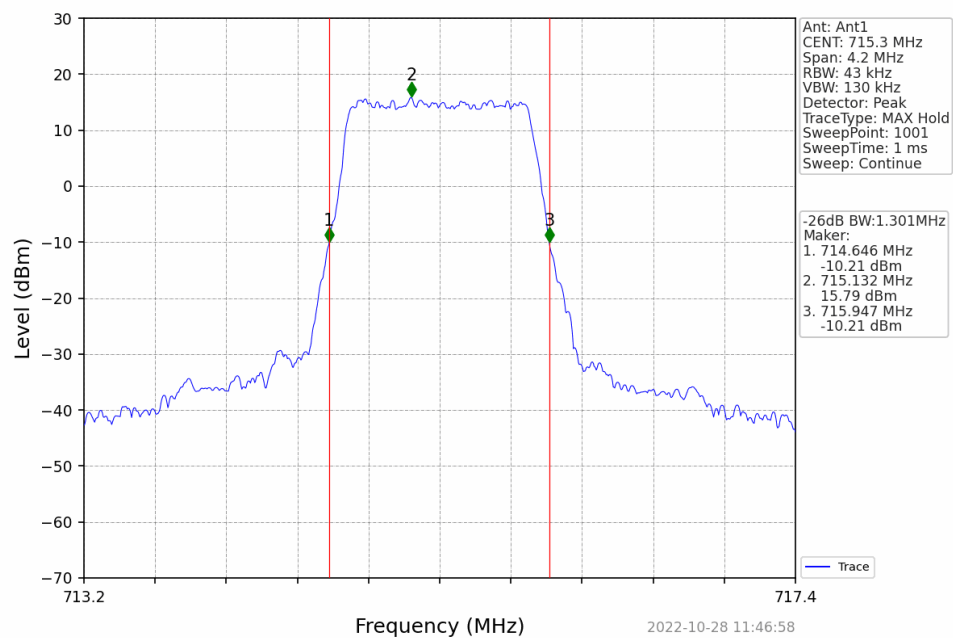




Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV

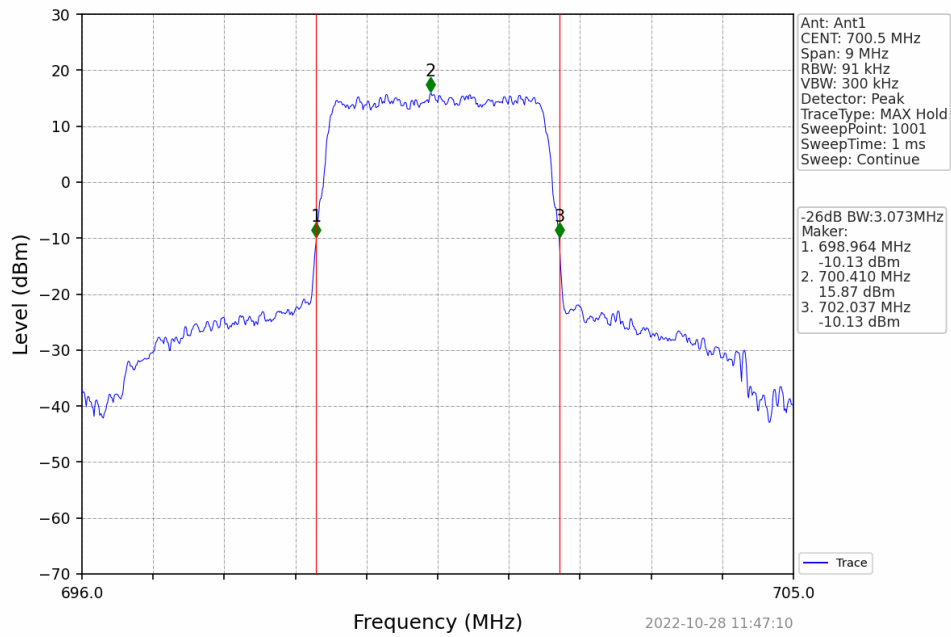


Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

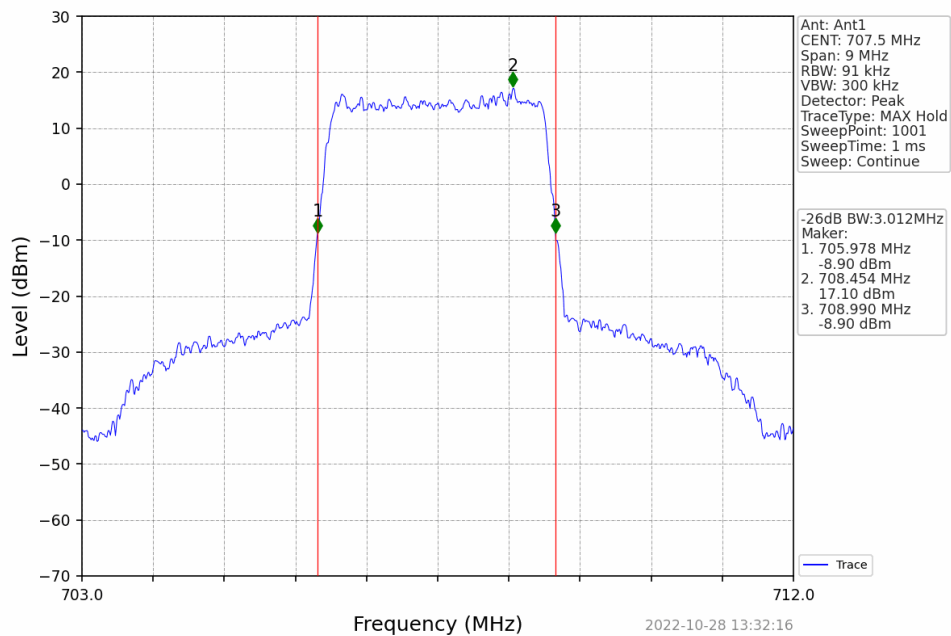




Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

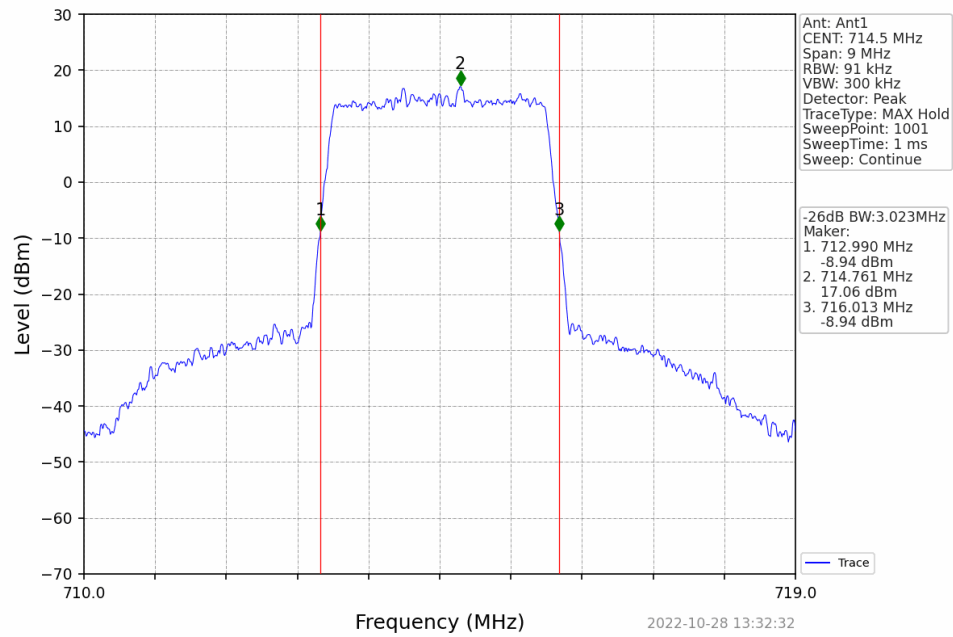


Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV

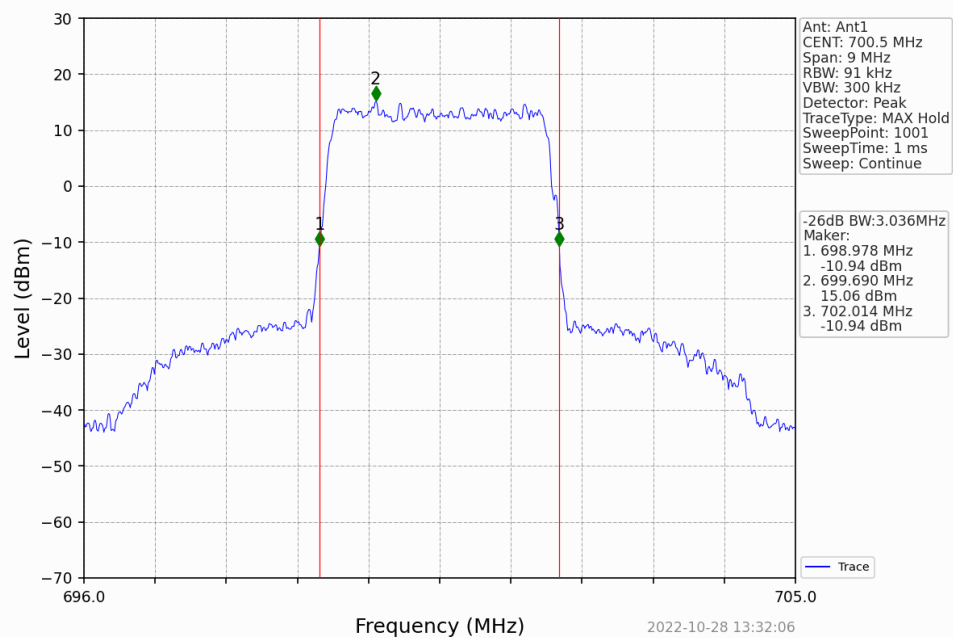




Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV

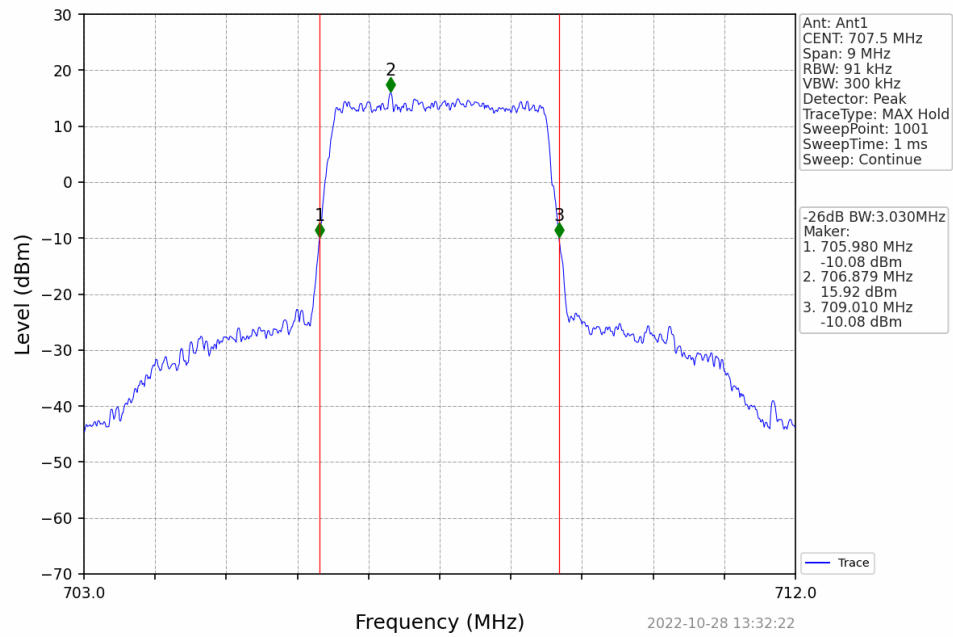


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

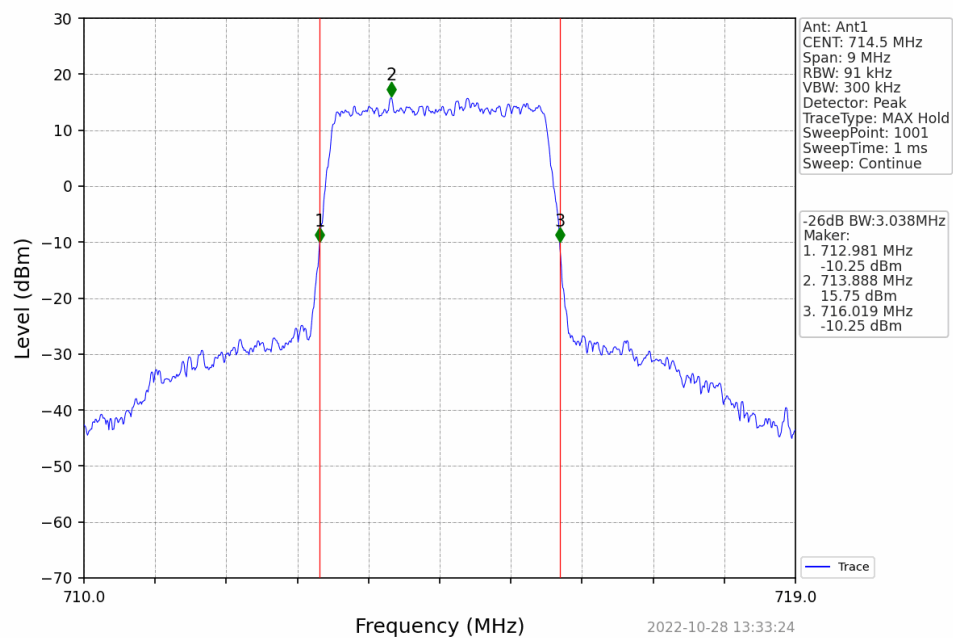




Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV

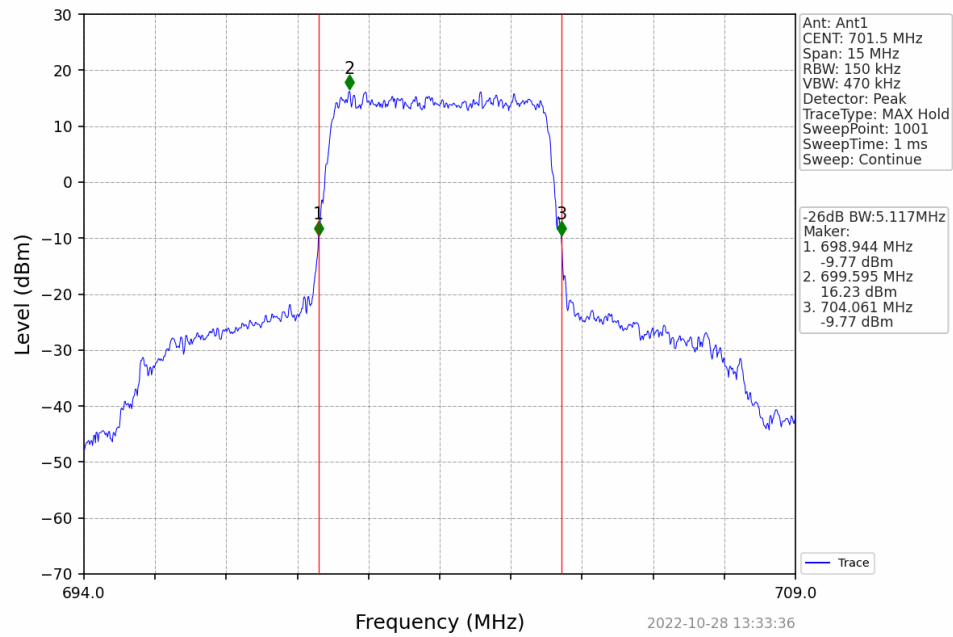


Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

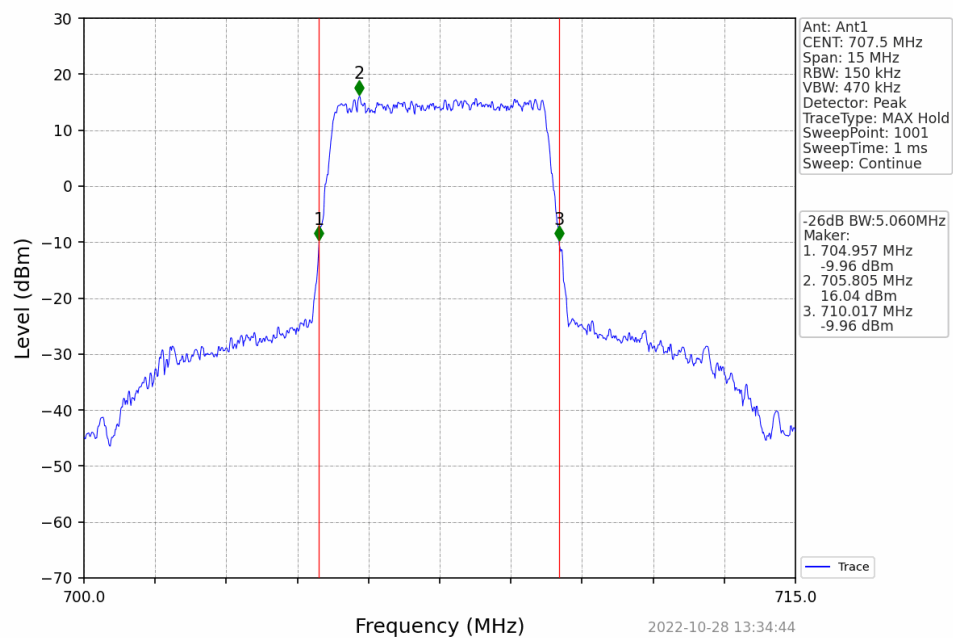




Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

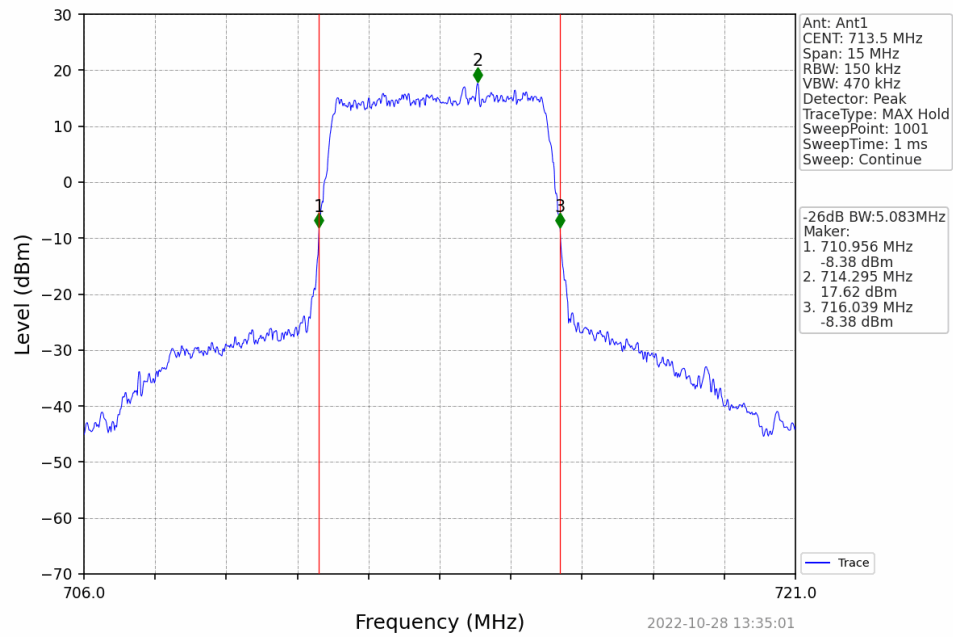


Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV

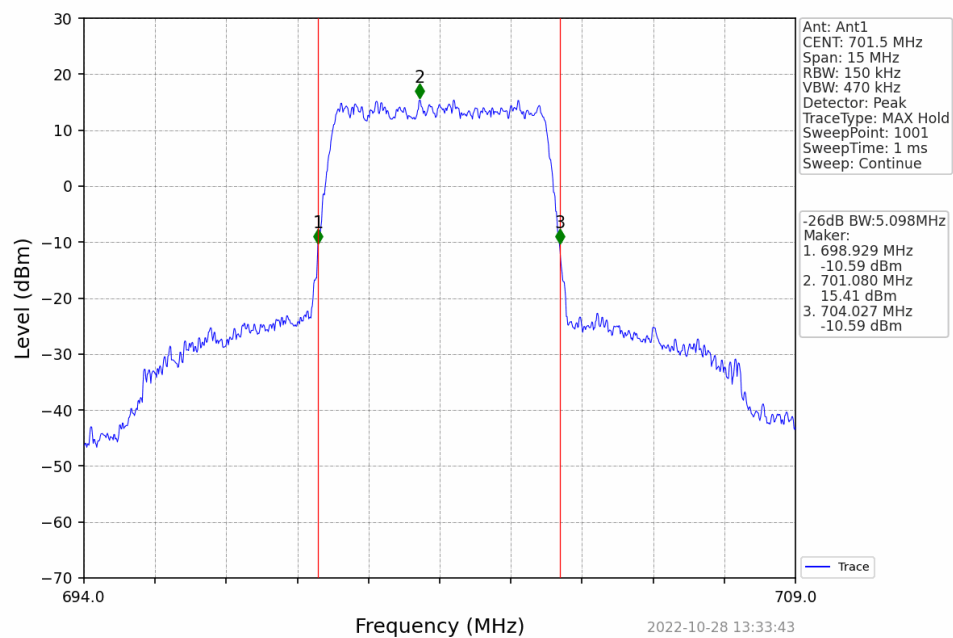




Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

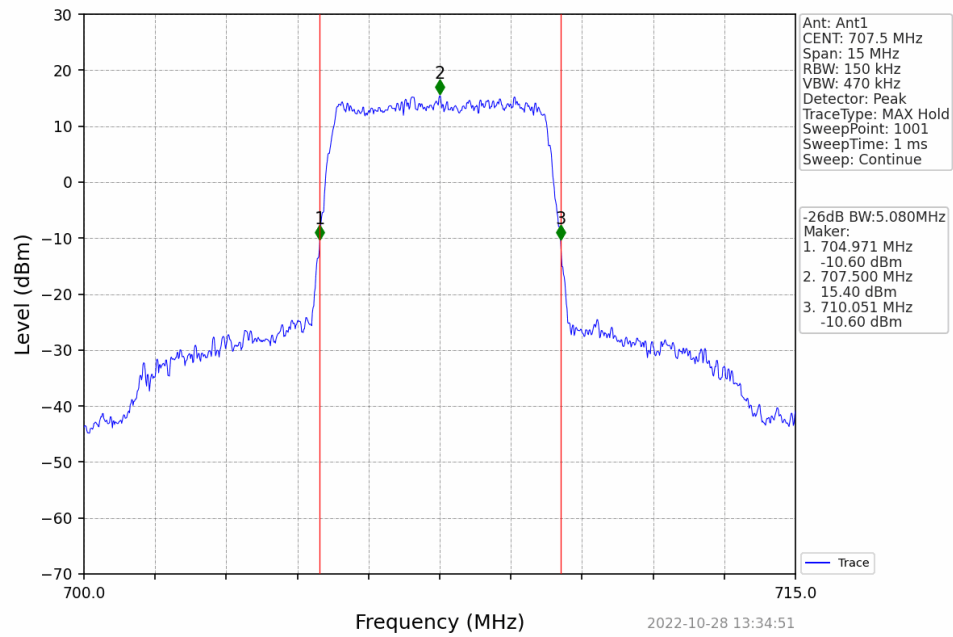


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

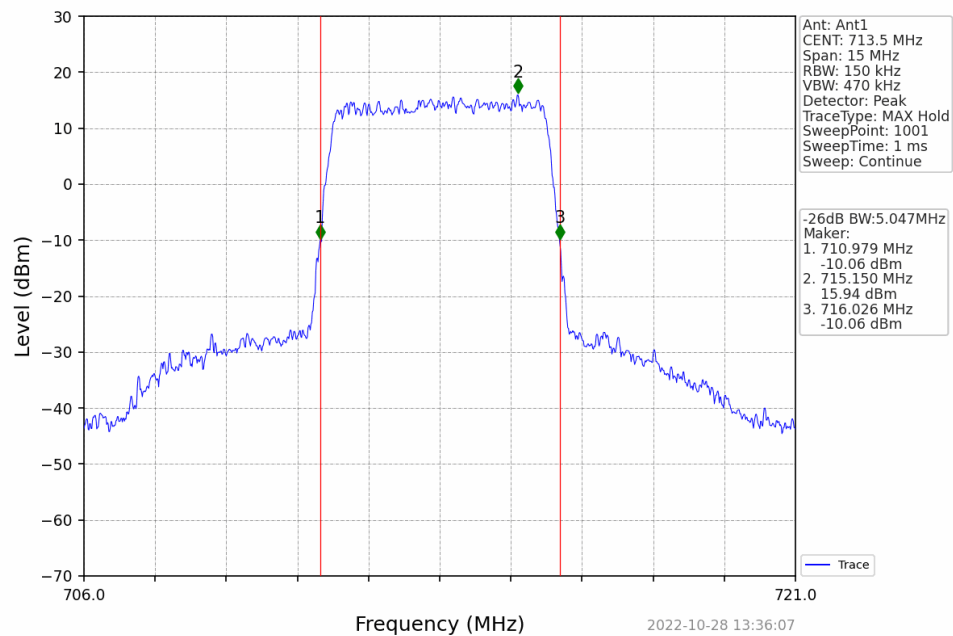




Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV

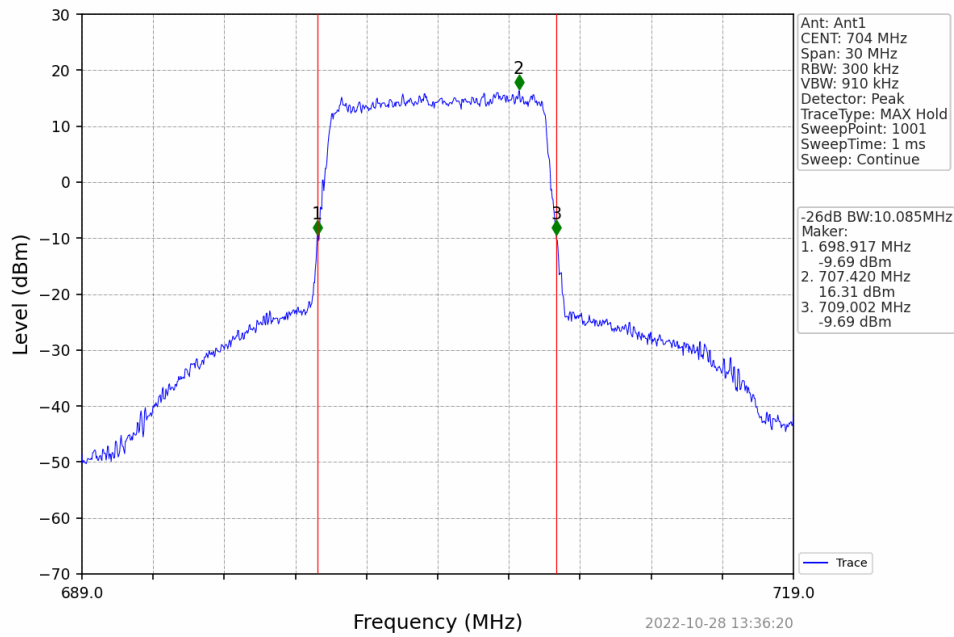


Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

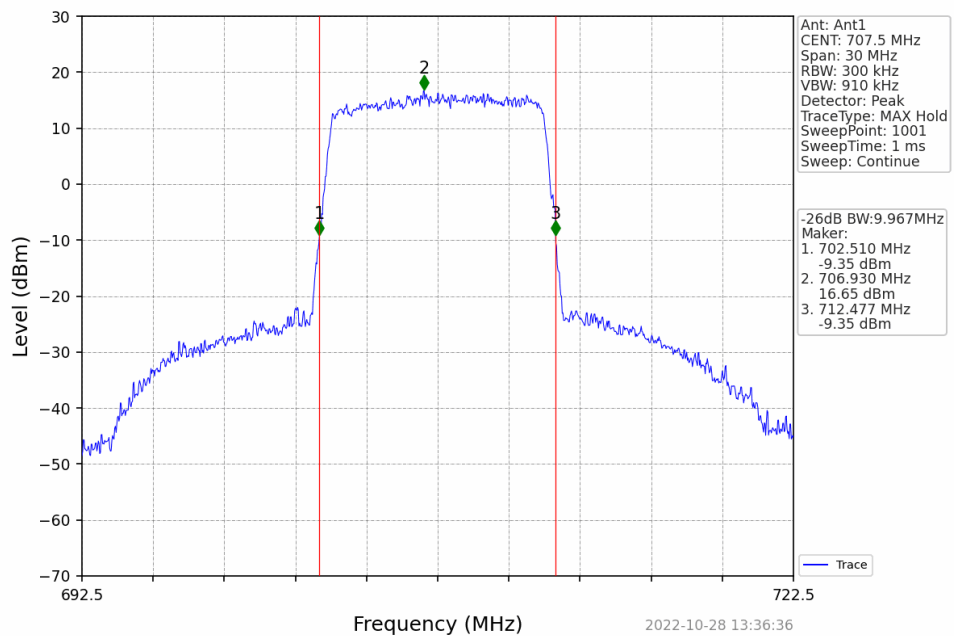




Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

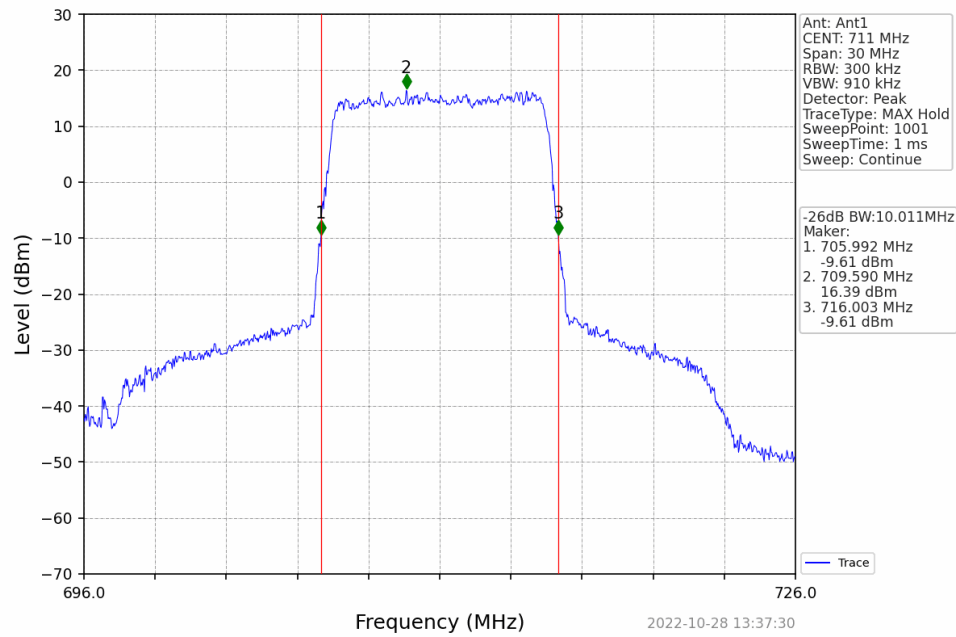


Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV

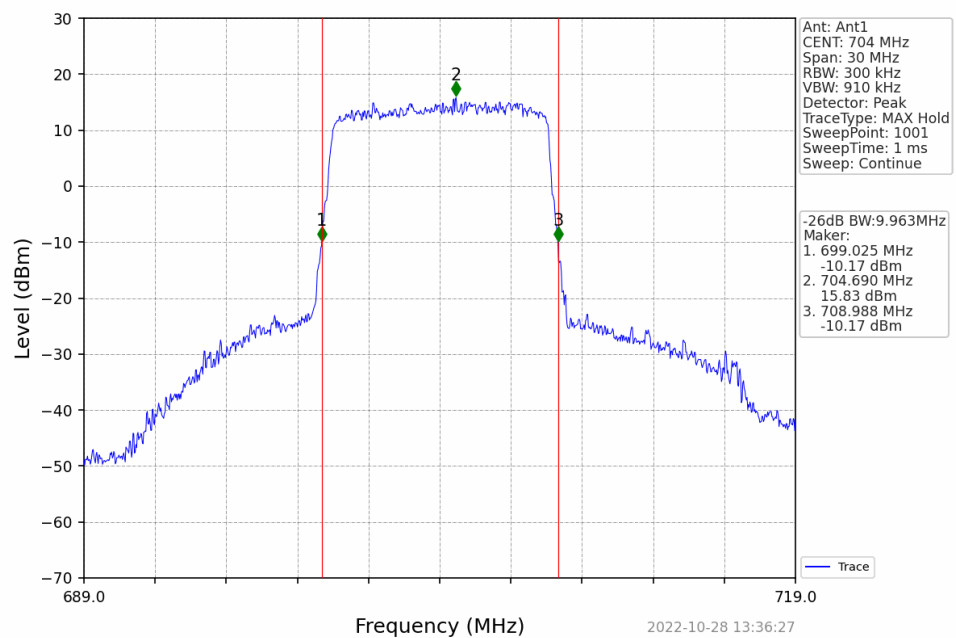




Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

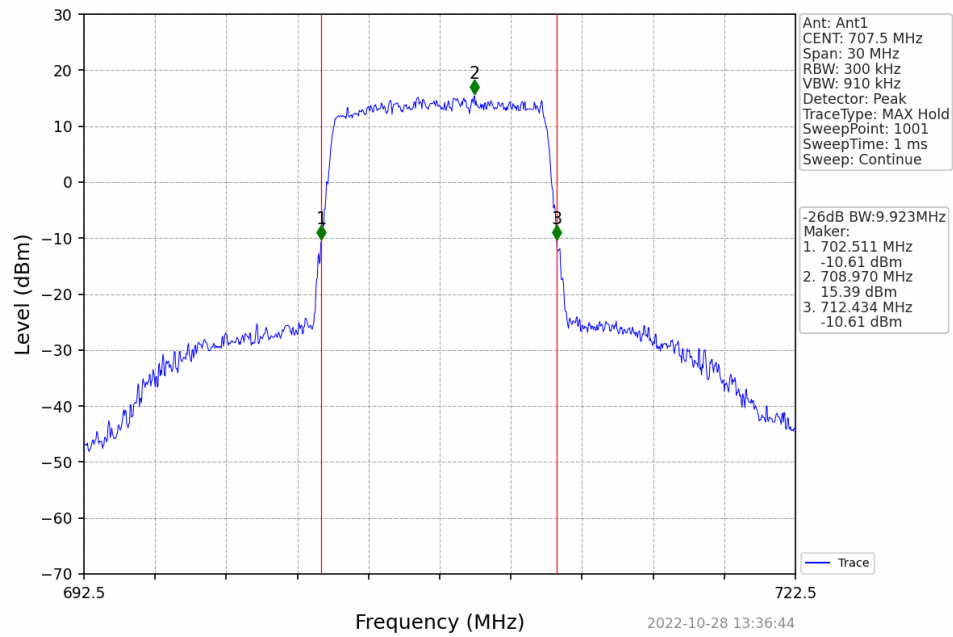


Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

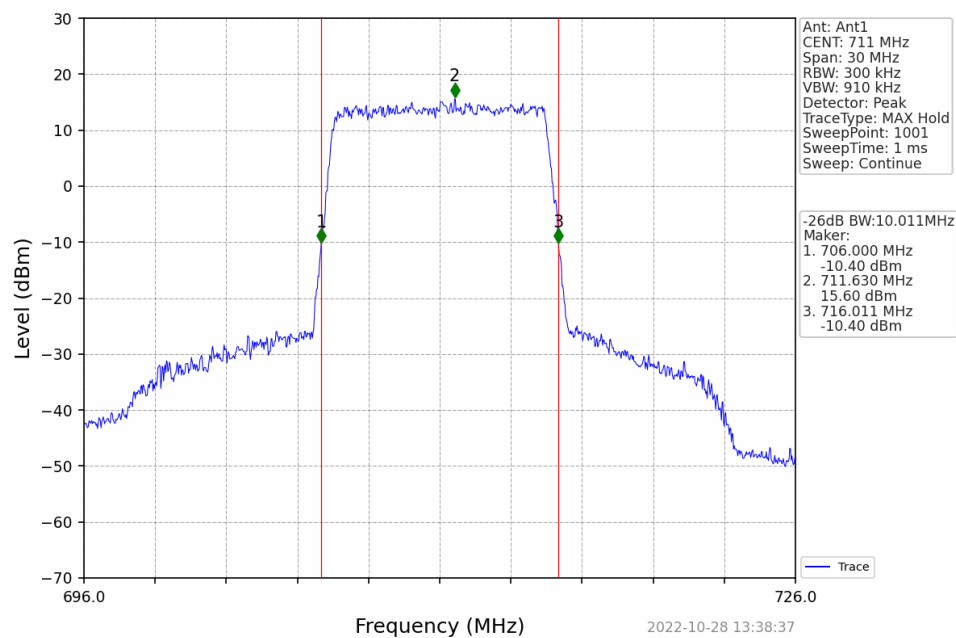




Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV





5. Peak-Average Ratio

5.1 B12_1.4MHz

5.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	699.7	6	0	6.33	<=13	Pass
	707.5	6	0	6.33	<=13	Pass
	715.3	6	0	6.10	<=13	Pass
QPSK	699.7	6	0	5.49	<=13	Pass
	707.5	6	0	5.52	<=13	Pass
	715.3	6	0	5.31	<=13	Pass
16QAM	699.7	6	0	6.36	<=13	Pass
	707.5	6	0	6.35	<=13	Pass
	715.3	6	0	6.17	<=13	Pass