1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B12_1.4MHz_ERP

Band: 12 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	23.82	-3.65	18.02	<=34.77	Pass
			2	23.97	-3.65	18.17	<=34.77	Pass
			5	23.94	-3.65	18.14	<=34.77	Pass
		3	0	23.87	-3.65	18.07	<=34.77	Pass
			2	23.82	-3.65	18.02	<=34.77	Pass
			3	23.79	-3.65	17.99	<=34.77	Pass
		6	0	22.68	-3.65	16.88	<=34.77	Pass
	707.5	1	0	23.89	-3.65	18.09	<=34.77	Pass
			2	23.85	-3.65	18.05	<=34.77	Pass
			5	23.81	-3.65	18.01	<=34.77	Pass
		3	0	23.83	-3.65	18.03	<=34.77	Pass
			2	23.79	-3.65	17.99	<=34.77	Pass
			3	23.71	-3.65	17.91	<=34.77	Pass
		6	0	22.80	-3.65	17.00	<=34.77	Pass
	715.3	1	0	23.72	-3.65	17.92	<=34.77	Pass
			2	23.82	-3.65	18.02	<=34.77	Pass
			5	23.77	-3.65	17.97	<=34.77	Pass
		3	0	23.83	-3.65	18.03	<=34.77	Pass
			2	23.87	-3.65	18.07	<=34.77	Pass
			3	23.92	-3.65	18.12	<=34.77	Pass
		6	0	22.58	-3.65	16.78	<=34.77	Pass
16QAM	699.7	1	0	22.12	-3.65	16.32	<=34.77	Pass
			2	22.15	-3.65	16.35	<=34.77	Pass
			5	22.16	-3.65	16.36	<=34.77	Pass
		3	0	22.38	-3.65	16.58	<=34.77	Pass
			2	22.41	-3.65	16.61	<=34.77	Pass
			3	22.39	-3.65	16.59	<=34.77	Pass
		6	0	22.20	-3.65	16.40	<=34.77	Pass
	707.5	1	0	22.78	-3.65	16.98	<=34.77	Pass
			2	22.88	-3.65	17.08	<=34.77	Pass
			5	22.88	-3.65	17.08	<=34.77	Pass
		3	0	22.77	-3.65	16.97	<=34.77	Pass
			2	22.78	-3.65	16.98	<=34.77	Pass
			3	22.75	-3.65	16.95	<=34.77	Pass
		6	0	22.35	-3.65	16.55	<=34.77	Pass
	715.3	1	0	22.69	-3.65	16.89	<=34.77	Pass
			2	22.73	-3.65	16.93	<=34.77	Pass
			5	22.79	-3.65	16.99	<=34.77	Pass
		3	0	22.66	-3.65	16.86	<=34.77	Pass
			2	22.61	-3.65	16.81	<=34.77	Pass
			3	22.57	-3.65	16.77	<=34.77	Pass
		6	0	22.20	-3.65	16.40	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B12_3MHz_ERP

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	22.59	-3.65	16.79	<=34.77	Pass
			7	22.73	-3.65	16.93	<=34.77	Pass
			14	22.71	-3.65	16.91	<=34.77	Pass
		8	0	22.72	-3.65	16.92	<=34.77	Pass
			4	22.72	-3.65	16.92	<=34.77	Pass
			7	22.71	-3.65	16.91	<=34.77	Pass
		15	0	22.70	-3.65	16.90	<=34.77	Pass
	707.5	1	0	22.74	-3.65	16.94	<=34.77	Pass
			7	22.71	-3.65	16.91	<=34.77	Pass
			14	22.68	-3.65	16.88	<=34.77	Pass
		8	0	22.73	-3.65	16.93	<=34.77	Pass
			4	22.83	-3.65	17.03	<=34.77	Pass
			7	22.83	-3.65	17.03	<=34.77	Pass
		15	0	22.82	-3.65	17.02	<=34.77	Pass
	714.5	1	0	22.78	-3.65	16.98	<=34.77	Pass
			7	22.81	-3.65	17.01	<=34.77	Pass
			14	22.77	-3.65	16.97	<=34.77	Pass
		8	0	22.78	-3.65	16.98	<=34.77	Pass
			4	22.78	-3.65	16.98	<=34.77	Pass
			7	22.78	-3.65	16.98	<=34.77	Pass
		15	0	22.79	-3.65	16.99	<=34.77	Pass
16QAM	700.5	1	0	22.69	-3.65	16.89	<=34.77	Pass
			7	22.68	-3.65	16.88	<=34.77	Pass
			14	22.68	-3.65	16.88	<=34.77	Pass
		8	0	22.68	-3.65	16.88	<=34.77	Pass
			4	22.68	-3.65	16.88	<=34.77	Pass
			7	22.68	-3.65	16.88	<=34.77	Pass
		15	0	22.68	-3.65	16.88	<=34.77	Pass
	707.5	1	0	22.81	-3.65	17.01	<=34.77	Pass
			7	22.81	-3.65	17.01	<=34.77	Pass
			14	22.80	-3.65	17.00	<=34.77	Pass
		8	0	22.79	-3.65	16.99	<=34.77	Pass
			4	22.79	-3.65	16.99	<=34.77	Pass
			7	22.79	-3.65	16.99	<=34.77	Pass
		15	0	22.79	-3.65	16.99	<=34.77	Pass
	714.5	1	0	22.79	-3.65	16.99	<=34.77	Pass
			7	22.80	-3.65	17.00	<=34.77	Pass
			14	22.79	-3.65	16.99	<=34.77	Pass
		8	0	22.79	-3.65	16.99	<=34.77	Pass
			4	22.79	-3.65	16.99	<=34.77	Pass
			7	22.79	-3.65	16.99	<=34.77	Pass
		15	0	22.79	-3.65	16.99	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.3 B12_5MHz_ERP

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	23.67	-3.65	17.87	<=34.77	Pass
			13	23.75	-3.65	17.95	<=34.77	Pass
			24	23.67	-3.65	17.87	<=34.77	Pass
		12	0	22.74	-3.65	16.94	<=34.77	Pass
			6	22.62	-3.65	16.82	<=34.77	Pass
			13	22.83	-3.65	17.03	<=34.77	Pass
		25	0	22.78	-3.65	16.98	<=34.77	Pass
	707.5	1	0	23.75	-3.65	17.95	<=34.77	Pass
			13	23.68	-3.65	17.88	<=34.77	Pass
			24	23.54	-3.65	17.74	<=34.77	Pass
		12	0	22.74	-3.65	16.94	<=34.77	Pass
			6	22.71	-3.65	16.91	<=34.77	Pass
			13	22.84	-3.65	17.04	<=34.77	Pass
		25	0	22.90	-3.65	17.10	<=34.77	Pass
	713.5	1	0	23.84	-3.65	18.04	<=34.77	Pass
			13	23.79	-3.65	17.99	<=34.77	Pass
			24	23.87	-3.65	18.07	<=34.77	Pass
		12	0	22.75	-3.65	16.95	<=34.77	Pass
			6	22.60	-3.65	16.80	<=34.77	Pass
			13	22.71	-3.65	16.91	<=34.77	Pass
		25	0	22.78	-3.65	16.98	<=34.77	Pass
16QAM	701.5	1	0	21.87	-3.65	16.07	<=34.77	Pass
			13	21.85	-3.65	16.05	<=34.77	Pass
			24	21.90	-3.65	16.10	<=34.77	Pass
		12	0	22.12	-3.65	16.32	<=34.77	Pass
			6	22.16	-3.65	16.36	<=34.77	Pass
			13	22.18	-3.65	16.38	<=34.77	Pass
		25	0	22.30	-3.65	16.50	<=34.77	Pass
	707.5	1	0	22.66	-3.65	16.86	<=34.77	Pass
			13	22.75	-3.65	16.95	<=34.77	Pass
			24	22.78	-3.65	16.98	<=34.77	Pass
		12	0	22.20	-3.65	16.40	<=34.77	Pass
			6	22.22	-3.65	16.42	<=34.77	Pass
			13	22.08	-3.65	16.28	<=34.77	Pass
		25	0	22.26	-3.65	16.46	<=34.77	Pass
	713.5	1	0	22.65	-3.65	16.85	<=34.77	Pass
			13	22.58	-3.65	16.78	<=34.77	Pass
			24	22.62	-3.65	16.82	<=34.77	Pass
		12	0	21.59	-3.65	15.79	<=34.77	Pass
			6	22.13	-3.65	16.33	<=34.77	Pass
			13	22.09	-3.65	16.29	<=34.77	Pass
		25	0	22.15	-3.65	16.35	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.4 B12_10MHz_ERP

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	23.76	-3.65	17.96	<=34.77	Pass
			25	23.73	-3.65	17.93	<=34.77	Pass
			49	23.77	-3.65	17.97	<=34.77	Pass
		25	0	22.90	-3.65	17.10	<=34.77	Pass
			13	22.78	-3.65	16.98	<=34.77	Pass
			25	22.75	-3.65	16.95	<=34.77	Pass
		50	0	22.76	-3.65	16.96	<=34.77	Pass
	707.5	1	0	23.75	-3.65	17.95	<=34.77	Pass
			25	23.80	-3.65	18.00	<=34.77	Pass
			49	23.80	-3.65	18.00	<=34.77	Pass
		25	0	22.66	-3.65	16.86	<=34.77	Pass
			13	22.79	-3.65	16.99	<=34.77	Pass
			25	22.84	-3.65	17.04	<=34.77	Pass
		50	0	22.85	-3.65	17.05	<=34.77	Pass
	711	1	0	23.71	-3.65	17.91	<=34.77	Pass
			25	23.67	-3.65	17.87	<=34.77	Pass
			49	23.87	-3.65	18.07	<=34.77	Pass
		25	0	22.80	-3.65	17.00	<=34.77	Pass
			13	22.74	-3.65	16.94	<=34.77	Pass
			25	22.77	-3.65	16.97	<=34.77	Pass
		50	0	22.68	-3.65	16.88	<=34.77	Pass
16QAM	704	1	0	23.02	-3.65	17.22	<=34.77	Pass
			25	23.12	-3.65	17.32	<=34.77	Pass
			49	23.12	-3.65	17.32	<=34.77	Pass
		25	0	22.19	-3.65	16.39	<=34.77	Pass
			13	21.90	-3.65	16.10	<=34.77	Pass
			25	22.25	-3.65	16.45	<=34.77	Pass
		50	0	21.81	-3.65	16.01	<=34.77	Pass
	707.5	1	0	22.43	-3.65	16.63	<=34.77	Pass
			25	22.44	-3.65	16.64	<=34.77	Pass
			49	22.44	-3.65	16.64	<=34.77	Pass
		25	0	22.34	-3.65	16.54	<=34.77	Pass
			13	22.38	-3.65	16.58	<=34.77	Pass
			25	22.03	-3.65	16.23	<=34.77	Pass
		50	0	22.27	-3.65	16.47	<=34.77	Pass
	711	1	0	23.43	-3.65	17.63	<=34.77	Pass
			25	23.40	-3.65	17.60	<=34.77	Pass
			49	23.46	-3.65	17.66	<=34.77	Pass
		25	0	22.28	-3.65	16.48	<=34.77	Pass
			13	21.86	-3.65	16.06	<=34.77	Pass
			25	22.29	-3.65	16.49	<=34.77	Pass
		50	0	21.93	-3.65	16.13	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B12_1.4MHz

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	3.29	0.572	0.0008	-2.5 to 2.5	Pass
					3.87	18.783	0.0268	-2.5 to 2.5	Pass
					4.45	7.296	0.0104	-2.5 to 2.5	Pass
				-30	3.87	-12.288	-0.0176	-2.5 to 2.5	Pass
				-20	3.87	-33.145	-0.0474	-2.5 to 2.5	Pass
				-10	3.87	-2.403	-0.0034	-2.5 to 2.5	Pass
				0	3.87	-28.639	-0.0409	-2.5 to 2.5	Pass
				10	3.87	-3.290	-0.0047	-2.5 to 2.5	Pass
				30	3.87	-21.672	-0.0310	-2.5 to 2.5	Pass
				40	3.87	-37.808	-0.0540	-2.5 to 2.5	Pass
				50	3.87	-5.565	-0.0080	-2.5 to 2.5	Pass
	707.5	6	0	20	3.29	-5.479	-0.0077	-2.5 to 2.5	Pass
					3.87	-2.475	-0.0035	-2.5 to 2.5	Pass
					4.45	-4.964	-0.0070	-2.5 to 2.5	Pass
				-30	3.87	-30.828	-0.0436	-2.5 to 2.5	Pass
				-20	3.87	-36.235	-0.0512	-2.5 to 2.5	Pass
				-10	3.87	-16.193	-0.0229	-2.5 to 2.5	Pass
				0	3.87	-34.547	-0.0488	-2.5 to 2.5	Pass
				10	3.87	5.107	0.0072	-2.5 to 2.5	Pass
				30	3.87	-9.527	-0.0135	-2.5 to 2.5	Pass
				40	3.87	-18.482	-0.0261	-2.5 to 2.5	Pass
				50	3.87	-32.086	-0.0454	-2.5 to 2.5	Pass
	715.3	6	0	20	3.29	-2.275	-0.0032	-2.5 to 2.5	Pass
					3.87	16.465	0.0230	-2.5 to 2.5	Pass
					4.45	30.870	0.0432	-2.5 to 2.5	Pass
				-30	3.87	41.571	0.0581	-2.5 to 2.5	Pass
				-20	3.87	-19.484	-0.0272	-2.5 to 2.5	Pass
				-10	3.87	2.131	0.0030	-2.5 to 2.5	Pass
				0	3.87	9.713	0.0136	-2.5 to 2.5	Pass
				10	3.87	17.910	0.0250	-2.5 to 2.5	Pass
				30	3.87	26.779	0.0374	-2.5 to 2.5	Pass
				40	3.87	34.533	0.0483	-2.5 to 2.5	Pass
				50	3.87	38.538	0.0539	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.29	-29.497	-0.0422	-2.5 to 2.5	Pass
					3.87	-38.838	-0.0555	-2.5 to 2.5	Pass
					4.45	-6.137	-0.0088	-2.5 to 2.5	Pass
				-30	3.87	-12.717	-0.0182	-2.5 to 2.5	Pass
				-20	3.87	-19.884	-0.0284	-2.5 to 2.5	Pass
				-10	3.87	-25.735	-0.0368	-2.5 to 2.5	Pass
				0	3.87	-31.743	-0.0454	-2.5 to 2.5	Pass
				10	3.87	-36.221	-0.0518	-2.5 to 2.5	Pass
				30	3.87	-39.096	-0.0559	-2.5 to 2.5	Pass
				40	3.87	-41.943	-0.0599	-2.5 to 2.5	Pass
				50	3.87	2.632	0.0038	-2.5 to 2.5	Pass
	707.5	6	0	20	3.29	-8.240	-0.0116	-2.5 to 2.5	Pass
					3.87	-20.628	-0.0292	-2.5 to 2.5	Pass
					4.45	-45.662	-0.0645	-2.5 to 2.5	Pass
				-30	3.87	-42.429	-0.0600	-2.5 to 2.5	Pass
				-20	3.87	-42.658	-0.0603	-2.5 to 2.5	Pass
				-10	3.87	-44.003	-0.0622	-2.5 to 2.5	Pass

				0	3.87	-45.877	-0.0648	-2.5 to 2.5	Pass
				10	3.87	-44.775	-0.0633	-2.5 to 2.5	Pass
				30	3.87	-49.582	-0.0701	-2.5 to 2.5	Pass
				40	3.87	-1.845	-0.0026	-2.5 to 2.5	Pass
				50	3.87	-2.117	-0.0030	-2.5 to 2.5	Pass
	715.3	6	0	20	3.29	42.729	0.0597	-2.5 to 2.5	Pass
					3.87	7.882	0.0110	-2.5 to 2.5	Pass
					4.45	12.732	0.0178	-2.5 to 2.5	Pass
				-30	3.87	-0.701	-0.0010	-2.5 to 2.5	Pass
				-20	3.87	15.178	0.0212	-2.5 to 2.5	Pass
				-10	3.87	16.479	0.0230	-2.5 to 2.5	Pass
				0	3.87	22.488	0.0314	-2.5 to 2.5	Pass
				10	3.87	27.552	0.0385	-2.5 to 2.5	Pass
				30	3.87	32.387	0.0453	-2.5 to 2.5	Pass
				40	3.87	35.992	0.0503	-2.5 to 2.5	Pass
				50	3.87	40.855	0.0571	-2.5 to 2.5	Pass

2.1.2 B12_3MHz

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	3.29	27.738	0.0396	-2.5 to 2.5	Pass
					3.87	29.097	0.0415	-2.5 to 2.5	Pass
					4.45	8.268	0.0118	-2.5 to 2.5	Pass
				-30	3.87	6.909	0.0099	-2.5 to 2.5	Pass
				-20	3.87	0.443	0.0006	-2.5 to 2.5	Pass
				-10	3.87	-14.806	-0.0211	-2.5 to 2.5	Pass
				0	3.87	-31.600	-0.0451	-2.5 to 2.5	Pass
				10	3.87	-46.206	-0.0660	-2.5 to 2.5	Pass
				30	3.87	-6.623	-0.0095	-2.5 to 2.5	Pass
				40	3.87	-12.617	-0.0180	-2.5 to 2.5	Pass
				50	3.87	-26.894	-0.0384	-2.5 to 2.5	Pass
	707.5	15	0	20	3.29	6.838	0.0097	-2.5 to 2.5	Pass
					3.87	2.675	0.0038	-2.5 to 2.5	Pass
					4.45	-3.705	-0.0052	-2.5 to 2.5	Pass
				-30	3.87	-11.988	-0.0169	-2.5 to 2.5	Pass
				-20	3.87	-26.436	-0.0374	-2.5 to 2.5	Pass
				-10	3.87	-32.129	-0.0454	-2.5 to 2.5	Pass
				0	3.87	-21.772	-0.0308	-2.5 to 2.5	Pass
				10	3.87	-37.336	-0.0528	-2.5 to 2.5	Pass
				30	3.87	-4.220	-0.0060	-2.5 to 2.5	Pass
				40	3.87	-15.020	-0.0212	-2.5 to 2.5	Pass
				50	3.87	-26.221	-0.0371	-2.5 to 2.5	Pass
	714.5	15	0	20	3.29	2.546	0.0036	-2.5 to 2.5	Pass
					3.87	6.723	0.0094	-2.5 to 2.5	Pass
					4.45	12.531	0.0175	-2.5 to 2.5	Pass
				-30	3.87	18.997	0.0266	-2.5 to 2.5	Pass
				-20	3.87	27.237	0.0381	-2.5 to 2.5	Pass
				-10	3.87	33.731	0.0472	-2.5 to 2.5	Pass
				0	3.87	42.357	0.0593	-2.5 to 2.5	Pass
				10	3.87	51.713	0.0724	-2.5 to 2.5	Pass
				30	3.87	8.712	0.0122	-2.5 to 2.5	Pass
				40	3.87	14.791	0.0207	-2.5 to 2.5	Pass
				50	3.87	15.306	0.0214	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.29	-28.667	-0.0409	-2.5 to 2.5	Pass
					3.87	-34.046	-0.0486	-2.5 to 2.5	Pass
					4.45	-32.873	-0.0469	-2.5 to 2.5	Pass

				-30	3.87	-33.703	-0.0481	-2.5 to 2.5	Pass
				-20	3.87	-33.131	-0.0473	-2.5 to 2.5	Pass
				-10	3.87	-30.971	-0.0442	-2.5 to 2.5	Pass
				0	3.87	-29.097	-0.0415	-2.5 to 2.5	Pass
				10	3.87	-28.267	-0.0404	-2.5 to 2.5	Pass
				30	3.87	-26.822	-0.0383	-2.5 to 2.5	Pass
				40	3.87	-33.545	-0.0479	-2.5 to 2.5	Pass
				50	3.87	-28.768	-0.0411	-2.5 to 2.5	Pass
	707.5	15	0	20	3.29	-39.124	-0.0553	-2.5 to 2.5	Pass
					3.87	4.406	0.0062	-2.5 to 2.5	Pass
					4.45	0.830	0.0012	-2.5 to 2.5	Pass
				-30	3.87	-11.387	-0.0161	-2.5 to 2.5	Pass
				-20	3.87	-13.790	-0.0195	-2.5 to 2.5	Pass
				-10	3.87	-14.849	-0.0210	-2.5 to 2.5	Pass
				0	3.87	-18.811	-0.0266	-2.5 to 2.5	Pass
				10	3.87	-20.785	-0.0294	-2.5 to 2.5	Pass
				30	3.87	-19.970	-0.0282	-2.5 to 2.5	Pass
				40	3.87	-23.017	-0.0325	-2.5 to 2.5	Pass
				50	3.87	-22.402	-0.0317	-2.5 to 2.5	Pass
	714.5	15	0	20	3.29	17.681	0.0247	-2.5 to 2.5	Pass
					3.87	17.409	0.0244	-2.5 to 2.5	Pass
					4.45	24.805	0.0347	-2.5 to 2.5	Pass
				-30	3.87	32.029	0.0448	-2.5 to 2.5	Pass
				-20	3.87	38.381	0.0537	-2.5 to 2.5	Pass
				-10	3.87	41.428	0.0580	-2.5 to 2.5	Pass
				0	3.87	47.379	0.0663	-2.5 to 2.5	Pass
				10	3.87	-0.758	-0.0011	-2.5 to 2.5	Pass
				30	3.87	5.479	0.0077	-2.5 to 2.5	Pass
				40	3.87	7.467	0.0105	-2.5 to 2.5	Pass
				50	3.87	3.676	0.0051	-2.5 to 2.5	Pass

2.1.3 B12_5MHz

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	3.27	40.398	0.0576	-2.5 to 2.5	Pass
					3.85	21.243	0.0303	-2.5 to 2.5	Pass
					4.43	34.590	0.0493	-2.5 to 2.5	Pass
				-30	3.85	38.123	0.0543	-2.5 to 2.5	Pass
				-20	3.85	32.687	0.0466	-2.5 to 2.5	Pass
				-10	3.85	23.818	0.0340	-2.5 to 2.5	Pass
				0	3.85	16.580	0.0236	-2.5 to 2.5	Pass
				10	3.85	2.275	0.0032	-2.5 to 2.5	Pass
				30	3.85	-4.520	-0.0064	-2.5 to 2.5	Pass
				40	3.85	-9.327	-0.0133	-2.5 to 2.5	Pass
				50	3.85	-15.507	-0.0221	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-0.529	-0.0007	-2.5 to 2.5	Pass
					3.85	2.818	0.0040	-2.5 to 2.5	Pass
					4.43	-0.100	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-10.972	-0.0155	-2.5 to 2.5	Pass
				-20	3.85	-37.622	-0.0532	-2.5 to 2.5	Pass
				-10	3.85	-44.603	-0.0630	-2.5 to 2.5	Pass
				0	3.85	-10.729	-0.0152	-2.5 to 2.5	Pass
				10	3.85	-23.918	-0.0338	-2.5 to 2.5	Pass
				30	3.85	-36.106	-0.0510	-2.5 to 2.5	Pass
				40	3.85	-44.818	-0.0633	-2.5 to 2.5	Pass
				50	3.85	-1.330	-0.0019	-2.5 to 2.5	Pass

	713.5	25	0	20	3.27	5.422	0.0076	-2.5 to 2.5	Pass
					3.85	18.153	0.0254	-2.5 to 2.5	Pass
					4.43	24.233	0.0340	-2.5 to 2.5	Pass
				-30	3.85	33.531	0.0470	-2.5 to 2.5	Pass
				-20	3.85	37.451	0.0525	-2.5 to 2.5	Pass
				-10	3.85	42.973	0.0602	-2.5 to 2.5	Pass
				0	3.85	15.693	0.0220	-2.5 to 2.5	Pass
				10	3.85	-2.103	-0.0029	-2.5 to 2.5	Pass
				30	3.85	0.472	0.0007	-2.5 to 2.5	Pass
				40	3.85	3.061	0.0043	-2.5 to 2.5	Pass
				50	3.85	5.636	0.0079	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-24.862	-0.0354	-2.5 to 2.5	Pass
					3.85	-29.054	-0.0414	-2.5 to 2.5	Pass
					4.43	-29.225	-0.0417	-2.5 to 2.5	Pass
				-30	3.85	-29.025	-0.0414	-2.5 to 2.5	Pass
				-20	3.85	-30.584	-0.0436	-2.5 to 2.5	Pass
				-10	3.85	-28.796	-0.0410	-2.5 to 2.5	Pass
				0	3.85	7.682	0.0110	-2.5 to 2.5	Pass
				10	3.85	5.279	0.0075	-2.5 to 2.5	Pass
				30	3.85	-3.963	-0.0056	-2.5 to 2.5	Pass
				40	3.85	-10.786	-0.0154	-2.5 to 2.5	Pass
				50	3.85	-8.669	-0.0124	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-13.604	-0.0192	-2.5 to 2.5	Pass
					3.85	-19.770	-0.0279	-2.5 to 2.5	Pass
					4.43	-24.648	-0.0348	-2.5 to 2.5	Pass
				-30	3.85	-30.241	-0.0427	-2.5 to 2.5	Pass
				-20	3.85	8.111	0.0115	-2.5 to 2.5	Pass
				-10	3.85	5.007	0.0071	-2.5 to 2.5	Pass
				0	3.85	2.675	0.0038	-2.5 to 2.5	Pass
				10	3.85	1.903	0.0027	-2.5 to 2.5	Pass
				30	3.85	0.458	0.0006	-2.5 to 2.5	Pass
				40	3.85	0.458	0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.257	-0.0004	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-1.602	-0.0022	-2.5 to 2.5	Pass
					3.85	2.561	0.0036	-2.5 to 2.5	Pass
					4.43	7.954	0.0111	-2.5 to 2.5	Pass
				-30	3.85	12.832	0.0180	-2.5 to 2.5	Pass
				-20	3.85	10.929	0.0153	-2.5 to 2.5	Pass
				-10	3.85	7.625	0.0107	-2.5 to 2.5	Pass
				0	3.85	9.527	0.0134	-2.5 to 2.5	Pass
				10	3.85	12.331	0.0173	-2.5 to 2.5	Pass
				30	3.85	16.751	0.0235	-2.5 to 2.5	Pass
				40	3.85	23.589	0.0331	-2.5 to 2.5	Pass
				50	3.85	20.757	0.0291	-2.5 to 2.5	Pass

2.1.4 B12_10MHz

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	3.27	29.554	0.0420	-2.5 to 2.5	Pass
					3.85	16.308	0.0232	-2.5 to 2.5	Pass
					4.43	8.554	0.0122	-2.5 to 2.5	Pass
				-30	3.85	-5.350	-0.0076	-2.5 to 2.5	Pass
				-20	3.85	-23.432	-0.0333	-2.5 to 2.5	Pass
				-10	3.85	-37.937	-0.0539	-2.5 to 2.5	Pass
				0	3.85	-48.108	-0.0683	-2.5 to 2.5	Pass
				10	3.85	-6.795	-0.0097	-2.5 to 2.5	Pass

				30	3.85	-18.353	-0.0261	-2.5 to 2.5	Pass
				40	3.85	-28.481	-0.0405	-2.5 to 2.5	Pass
				50	3.85	4.520	0.0064	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	9.370	0.0132	-2.5 to 2.5	Pass
					3.85	16.294	0.0230	-2.5 to 2.5	Pass
					4.43	7.610	0.0108	-2.5 to 2.5	Pass
				-30	3.85	-14.949	-0.0211	-2.5 to 2.5	Pass
				-20	3.85	-29.683	-0.0420	-2.5 to 2.5	Pass
				-10	3.85	-39.825	-0.0563	-2.5 to 2.5	Pass
				0	3.85	-22.058	-0.0312	-2.5 to 2.5	Pass
				10	3.85	-10.443	-0.0148	-2.5 to 2.5	Pass
				30	3.85	-17.009	-0.0240	-2.5 to 2.5	Pass
				40	3.85	-25.635	-0.0362	-2.5 to 2.5	Pass
				50	3.85	-32.902	-0.0465	-2.5 to 2.5	Pass
	711	50	0	20	3.27	2.646	0.0037	-2.5 to 2.5	Pass
					3.85	-9.856	-0.0139	-2.5 to 2.5	Pass
					4.43	-10.629	-0.0149	-2.5 to 2.5	Pass
				-30	3.85	-10.657	-0.0150	-2.5 to 2.5	Pass
				-20	3.85	-7.010	-0.0099	-2.5 to 2.5	Pass
				-10	3.85	-9.685	-0.0136	-2.5 to 2.5	Pass
				0	3.85	-11.516	-0.0162	-2.5 to 2.5	Pass
				10	3.85	-12.317	-0.0173	-2.5 to 2.5	Pass
				30	3.85	-12.274	-0.0173	-2.5 to 2.5	Pass
				40	3.85	-13.690	-0.0193	-2.5 to 2.5	Pass
				50	3.85	-12.202	-0.0172	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	2.418	0.0034	-2.5 to 2.5	Pass
					3.85	1.559	0.0022	-2.5 to 2.5	Pass
					4.43	-0.815	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	5.779	0.0082	-2.5 to 2.5	Pass
				-20	3.85	12.689	0.0180	-2.5 to 2.5	Pass
				-10	3.85	17.509	0.0249	-2.5 to 2.5	Pass
				0	3.85	21.300	0.0303	-2.5 to 2.5	Pass
				10	3.85	26.693	0.0379	-2.5 to 2.5	Pass
				30	3.85	20.370	0.0289	-2.5 to 2.5	Pass
				40	3.85	13.533	0.0192	-2.5 to 2.5	Pass
				50	3.85	8.941	0.0127	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	2.017	0.0029	-2.5 to 2.5	Pass
					3.85	4.435	0.0063	-2.5 to 2.5	Pass
					4.43	5.407	0.0076	-2.5 to 2.5	Pass
				-30	3.85	9.284	0.0131	-2.5 to 2.5	Pass
				-20	3.85	14.877	0.0210	-2.5 to 2.5	Pass
				-10	3.85	19.054	0.0269	-2.5 to 2.5	Pass
				0	3.85	23.947	0.0338	-2.5 to 2.5	Pass
				10	3.85	22.874	0.0323	-2.5 to 2.5	Pass
				30	3.85	24.619	0.0348	-2.5 to 2.5	Pass
				40	3.85	24.662	0.0349	-2.5 to 2.5	Pass
				50	3.85	25.077	0.0354	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-11.902	-0.0167	-2.5 to 2.5	Pass
					3.85	-18.597	-0.0262	-2.5 to 2.5	Pass
					4.43	-16.150	-0.0227	-2.5 to 2.5	Pass
				-30	3.85	-7.324	-0.0103	-2.5 to 2.5	Pass
				-20	3.85	0.629	0.0009	-2.5 to 2.5	Pass
				-10	3.85	11.315	0.0159	-2.5 to 2.5	Pass
				0	3.85	15.950	0.0224	-2.5 to 2.5	Pass
				10	3.85	7.668	0.0108	-2.5 to 2.5	Pass
				30	3.85	16.451	0.0231	-2.5 to 2.5	Pass
				40	3.85	21.744	0.0306	-2.5 to 2.5	Pass
				50	3.85	27.065	0.0381	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B12_1.4MHz

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

3.1.2 B12_3MHz

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

3.1.3 B12_5MHz

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

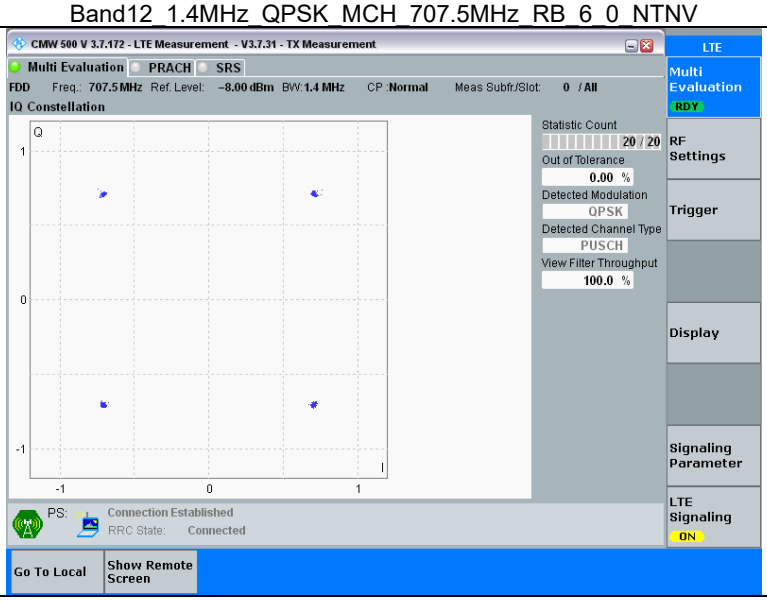
3.1.4 B12_10MHz

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

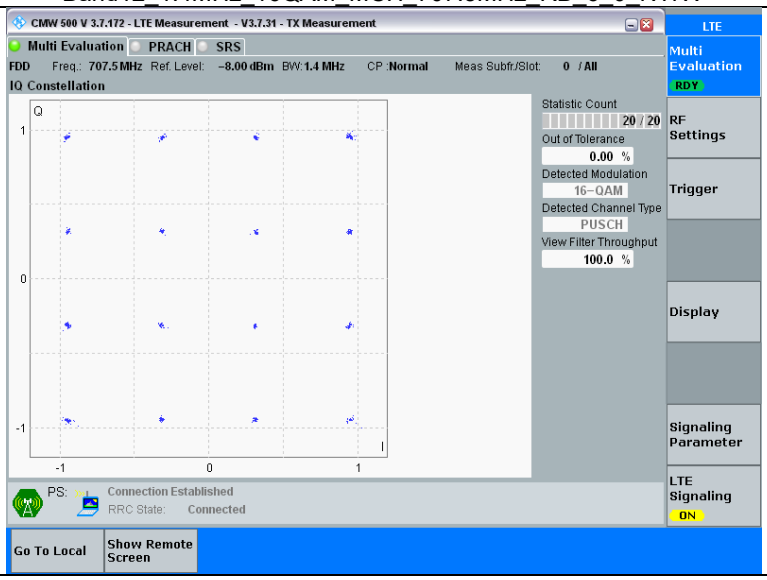
3.2 Test Graph

3.2.1 B12_1.4MHz

Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV

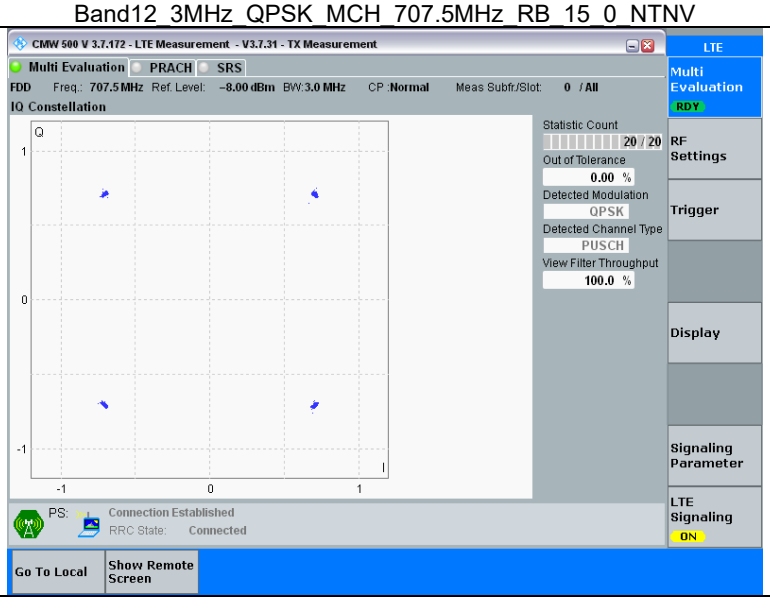


Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV

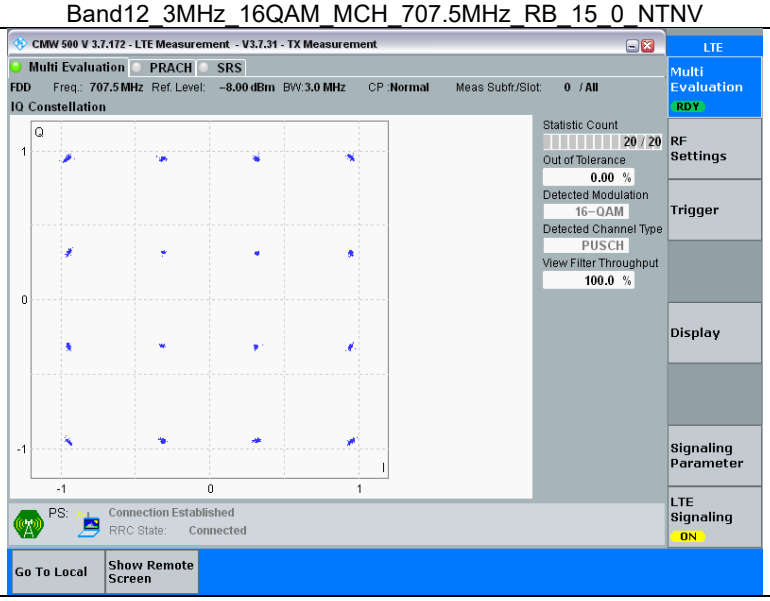


3.2.2 B12_3MHz

Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV

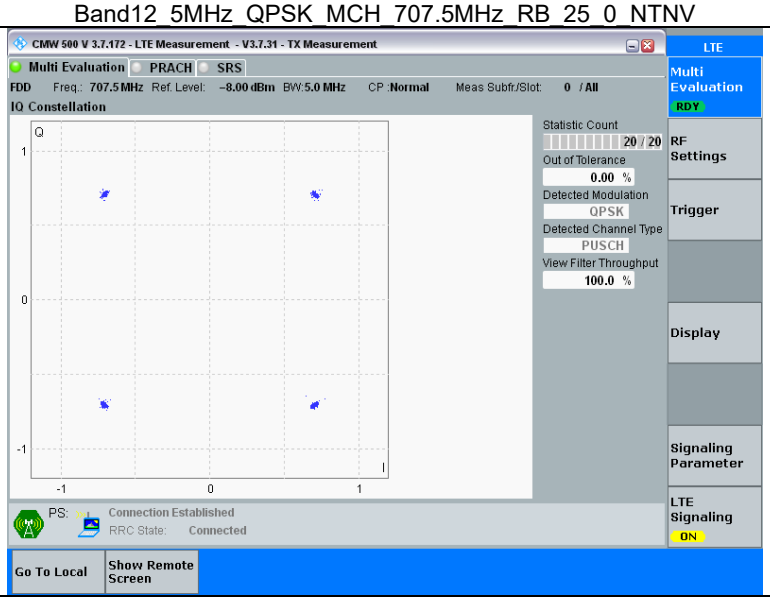


Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV

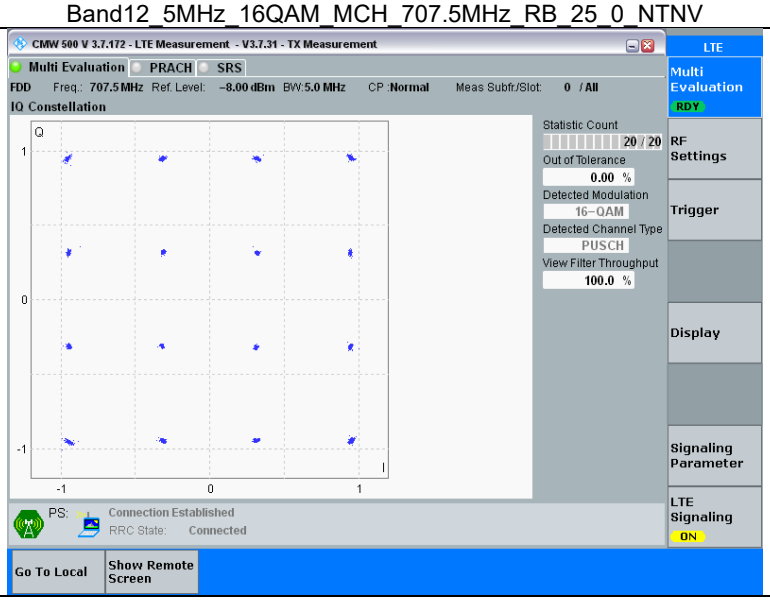


3.2.3 B12_5MHz

Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV

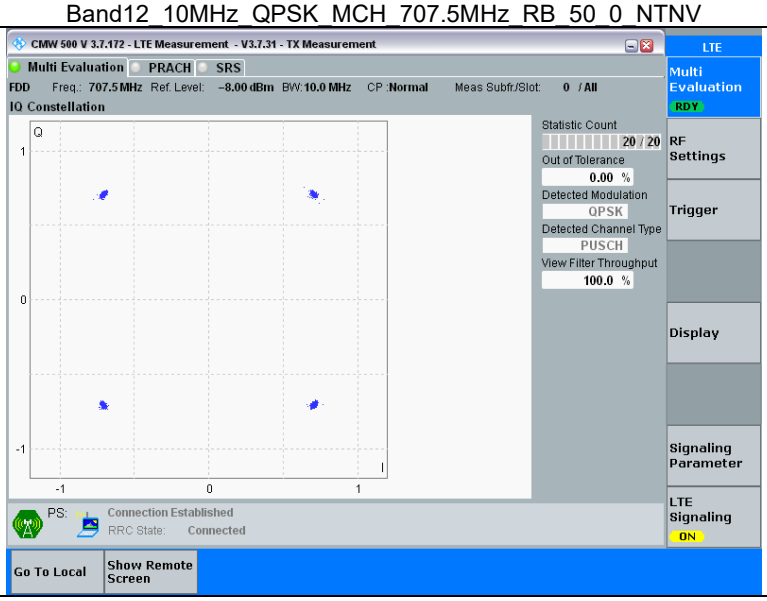


Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV

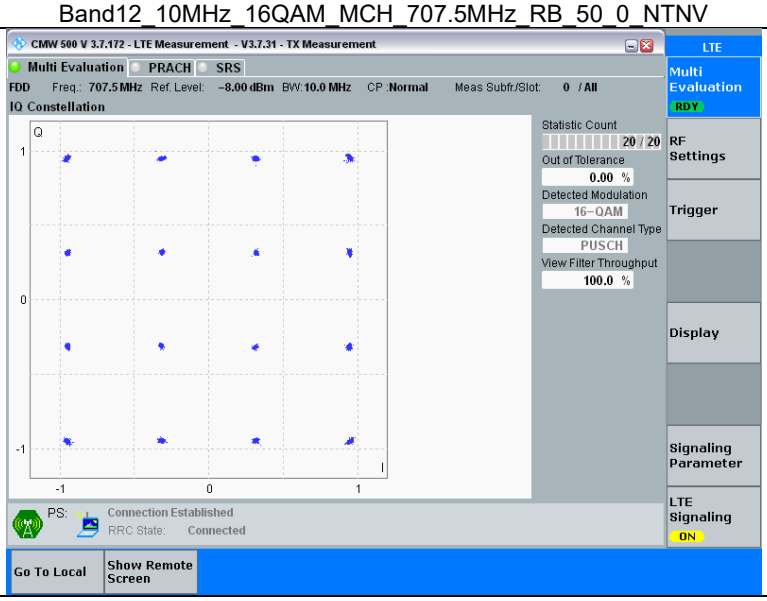


3.2.4 B12_10MHz

Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band12_OBW

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.114	/	Pass
		707.5	6	0	1.110	/	Pass
		715.3	6	0	1.110	/	Pass
	16QAM	699.7	6	0	1.115	/	Pass
		707.5	6	0	1.109	/	Pass
		715.3	6	0	1.113	/	Pass
3	QPSK	700.5	15	0	2.763	/	Pass
		707.5	15	0	2.763	/	Pass
		714.5	15	0	2.744	/	Pass
	16QAM	700.5	15	0	2.777	/	Pass
		707.5	15	0	2.746	/	Pass
		714.5	15	0	2.752	/	Pass
5	QPSK	701.5	25	0	4.531	/	Pass
		707.5	25	0	4.554	/	Pass
		713.5	25	0	4.545	/	Pass
	16QAM	701.5	25	0	4.525	/	Pass
		707.5	25	0	4.581	/	Pass
		713.5	25	0	4.565	/	Pass
10	QPSK	704	50	0	9.040	/	Pass
		707.5	50	0	9.130	/	Pass
		711	50	0	9.073	/	Pass
	16QAM	704	50	0	9.041	/	Pass
		707.5	50	0	9.075	/	Pass
		711	50	0	9.092	/	Pass

4.1.2 Band12_XDB

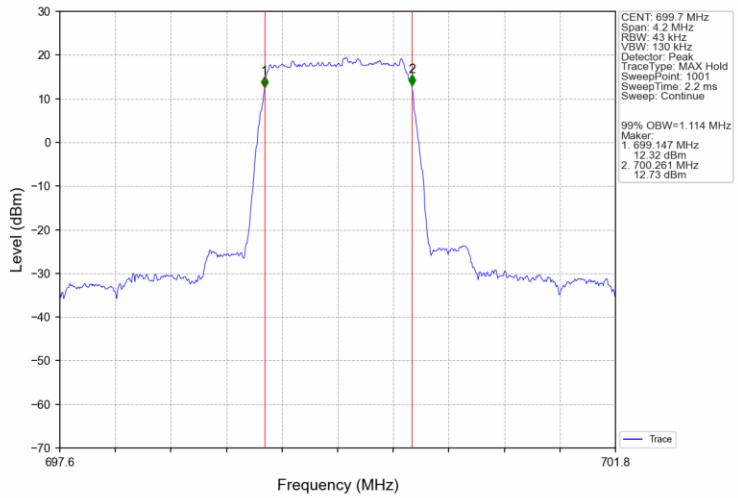
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.272	/	Pass
		707.5	6	0	1.272	/	Pass
		715.3	6	0	1.275	/	Pass
	16QAM	699.7	6	0	1.275	/	Pass
		707.5	6	0	1.265	/	Pass
		715.3	6	0	1.271	/	Pass
3	QPSK	700.5	15	0	3.085	/	Pass
		707.5	15	0	3.090	/	Pass
		714.5	15	0	3.086	/	Pass
	16QAM	700.5	15	0	3.109	/	Pass
		707.5	15	0	3.105	/	Pass
		714.5	15	0	3.109	/	Pass
5	QPSK	701.5	25	0	5.037	/	Pass
		707.5	25	0	5.044	/	Pass
		713.5	25	0	5.052	/	Pass

	16QAM	701.5	25	0	5.036	/	Pass
		707.5	25	0	5.090	/	Pass
		713.5	25	0	5.070	/	Pass
10	QPSK	704	50	0	10.059	/	Pass
		707.5	50	0	10.065	/	Pass
		711	50	0	10.067	/	Pass
	16QAM	704	50	0	10.055	/	Pass
		707.5	50	0	10.094	/	Pass
		711	50	0	10.049	/	Pass

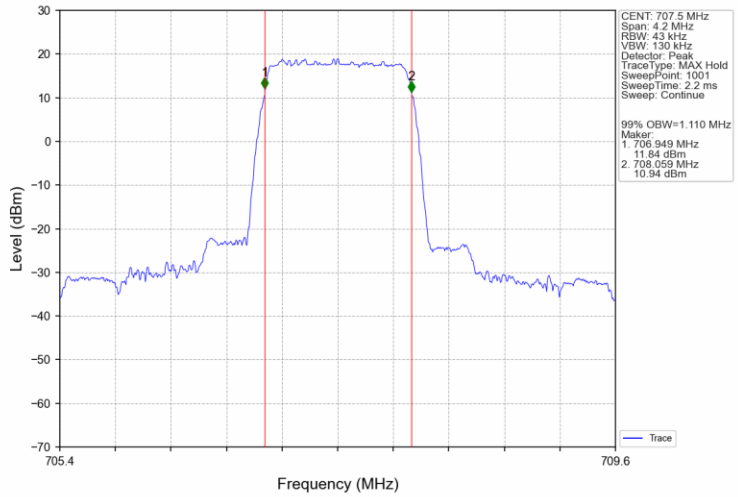
4.2 Test Graph

4.2.1 Band12_OBW

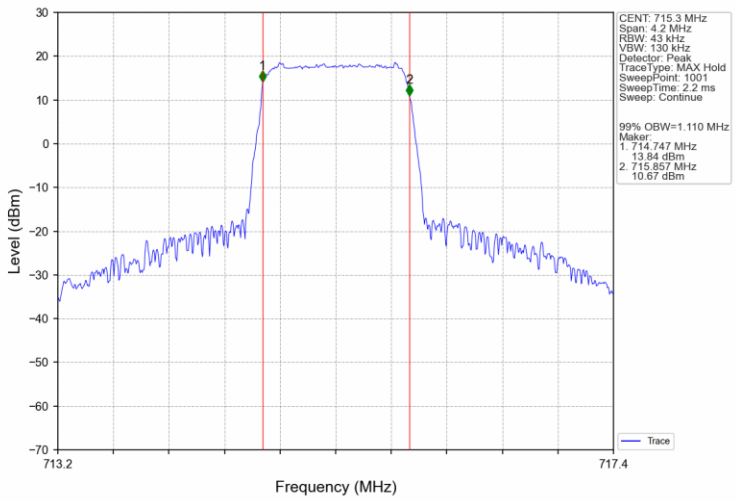
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



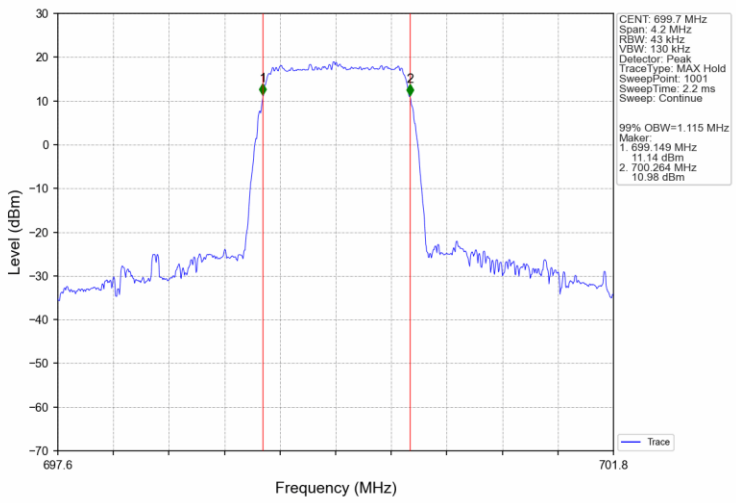
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



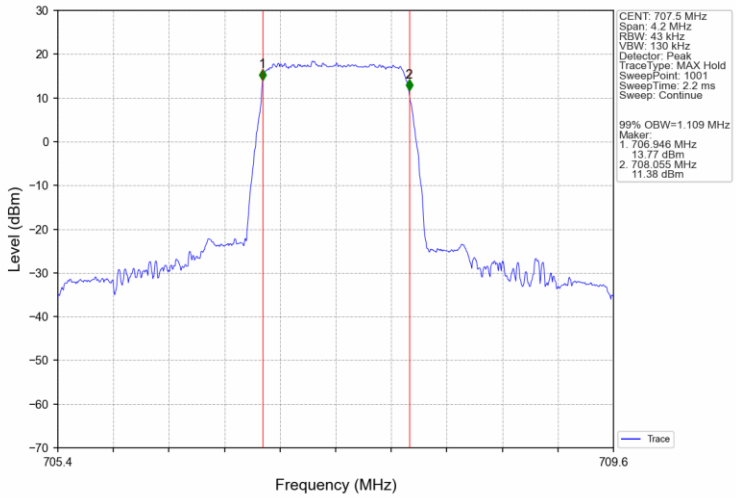
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



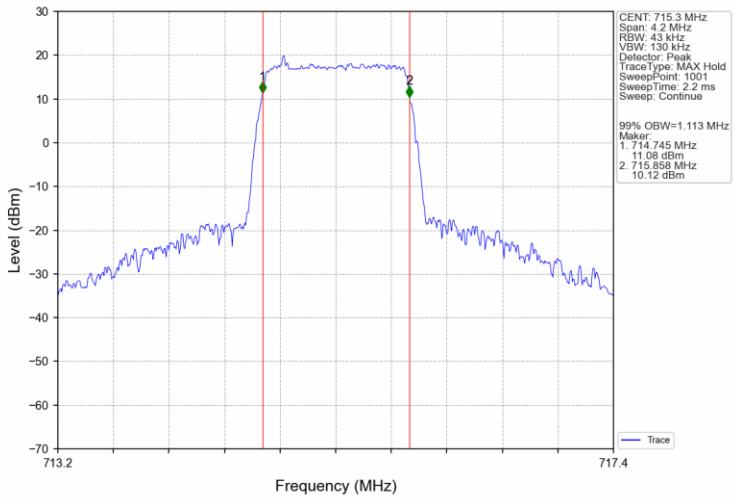
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



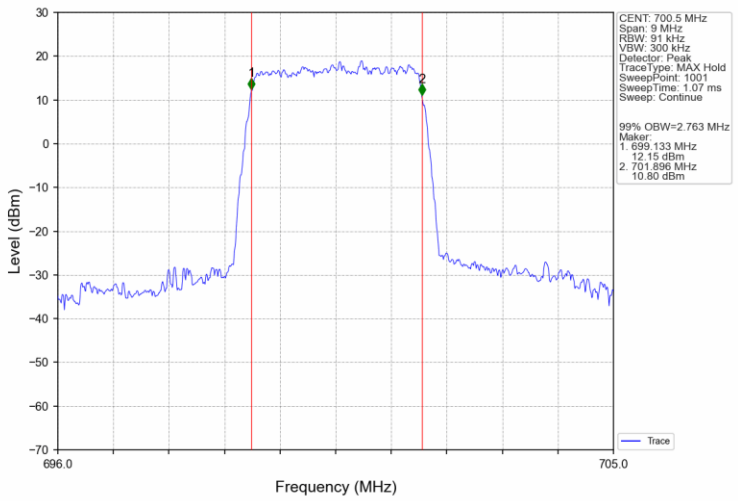
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



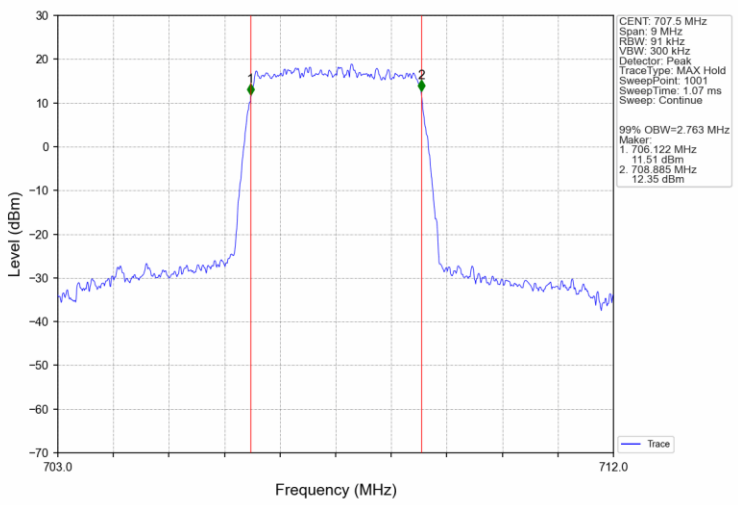
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



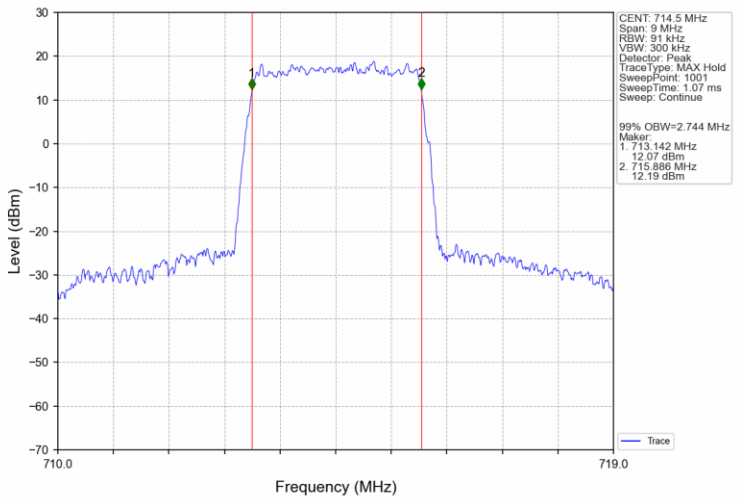
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



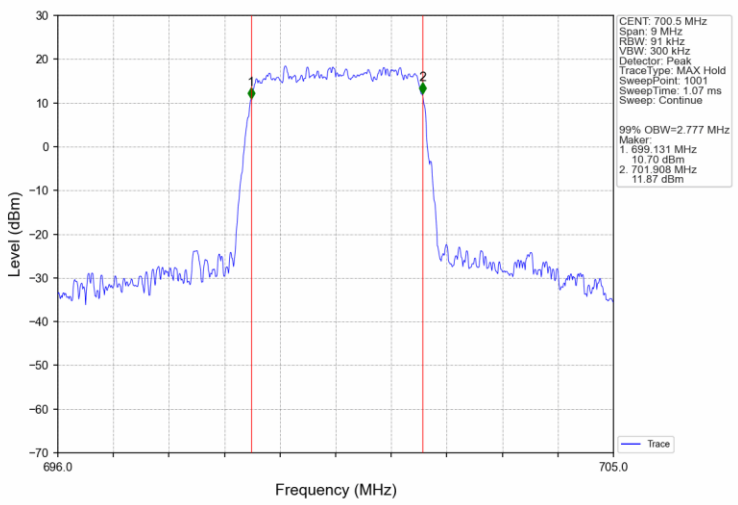
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



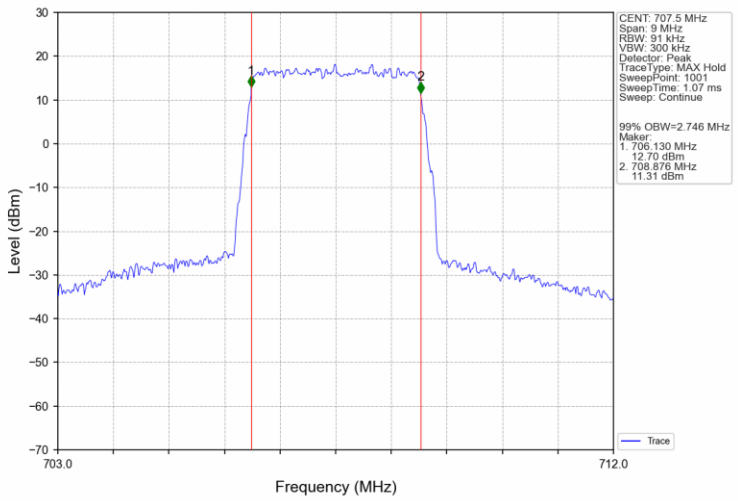
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



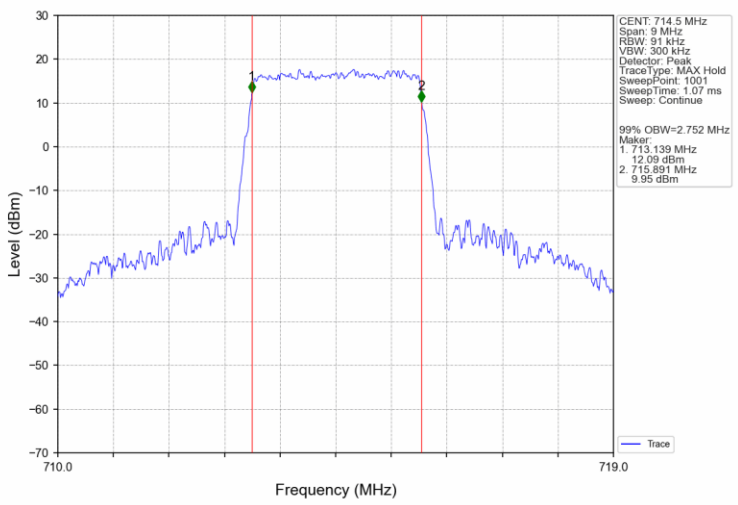
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



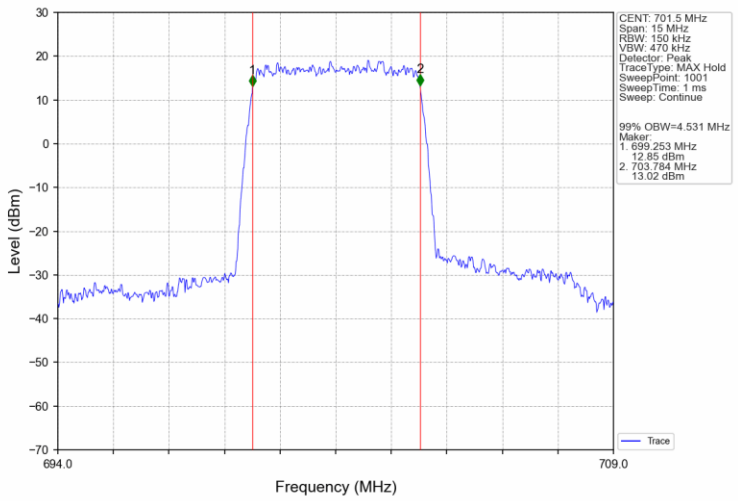
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



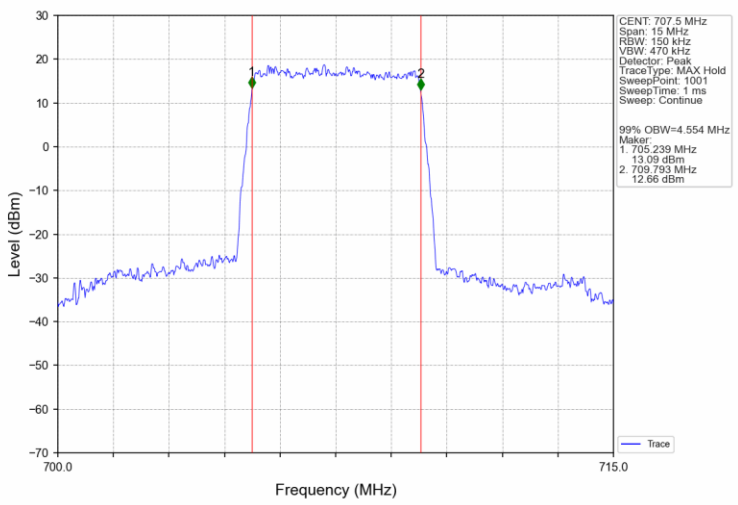
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



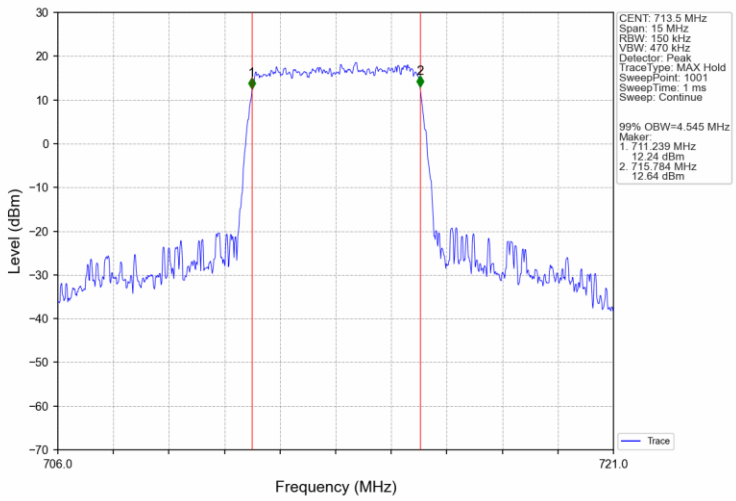
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



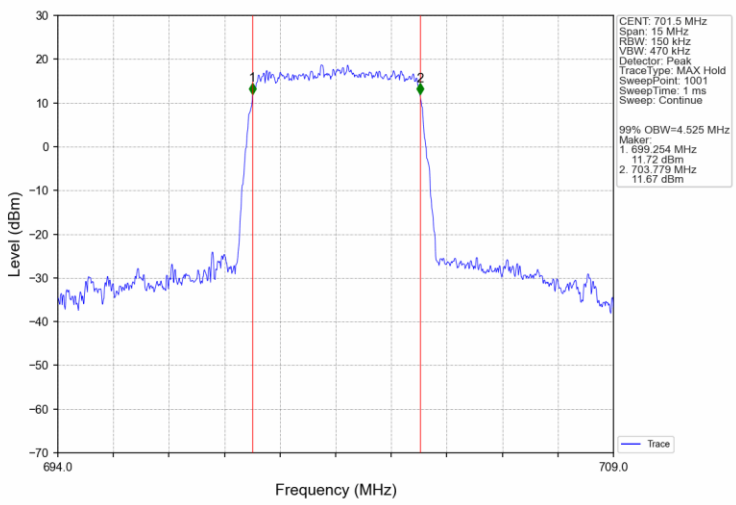
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



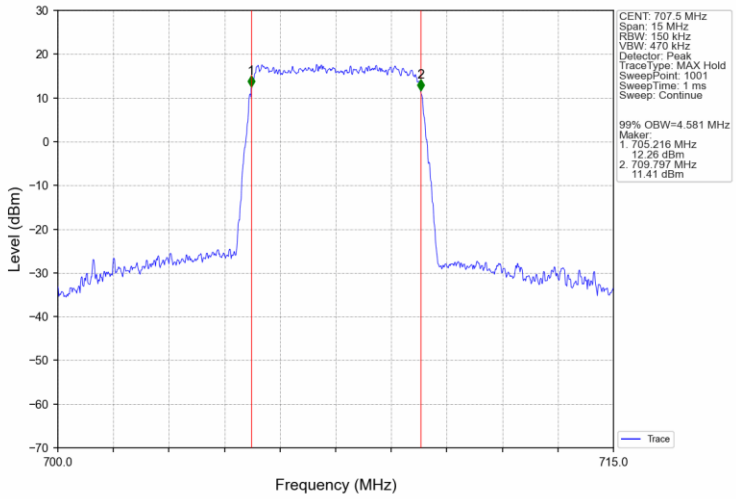
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



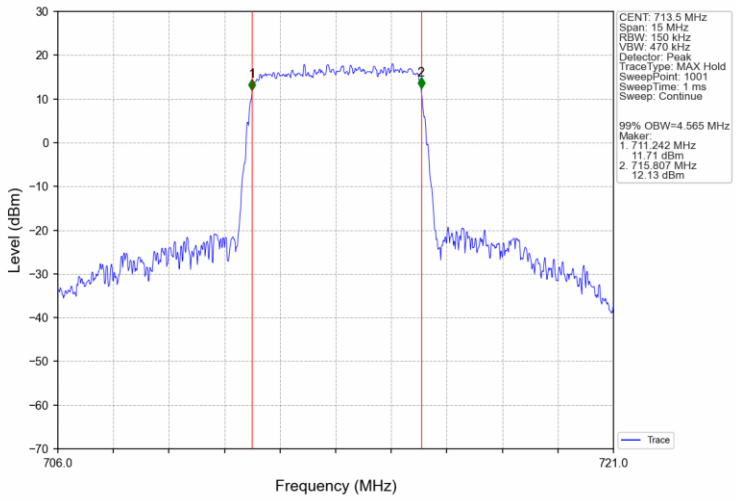
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



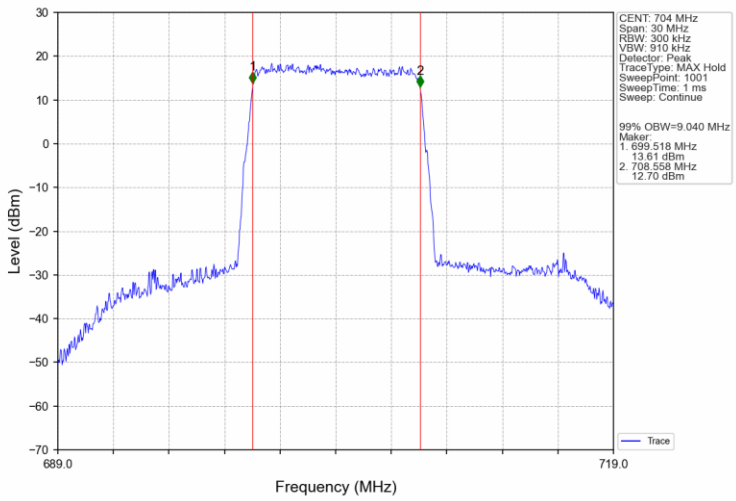
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



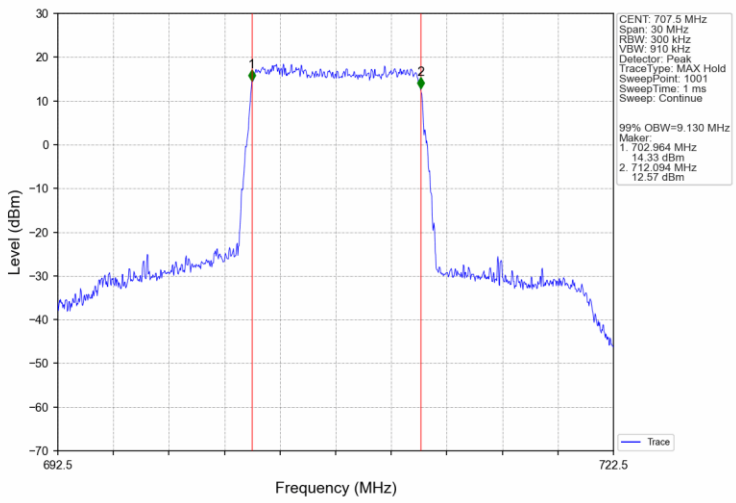
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



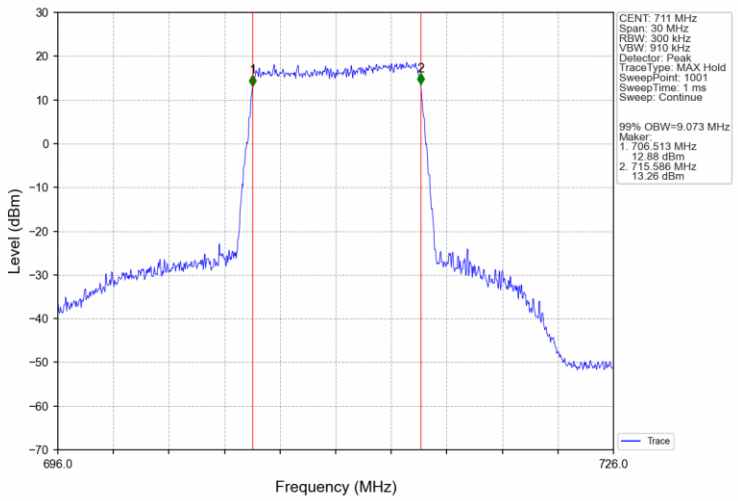
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



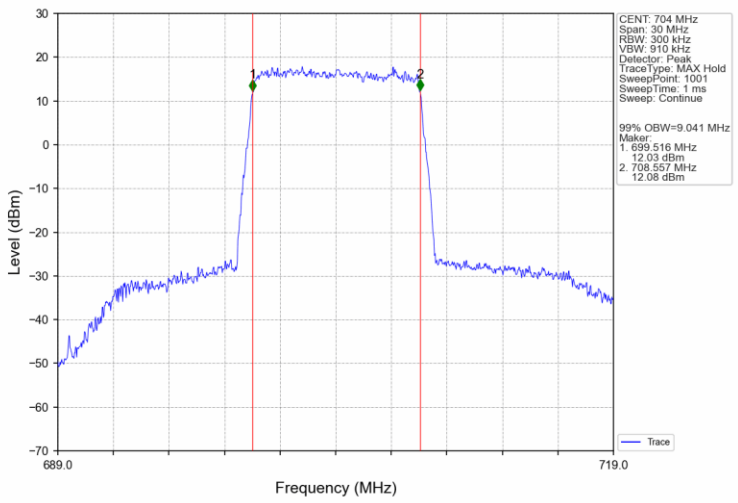
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



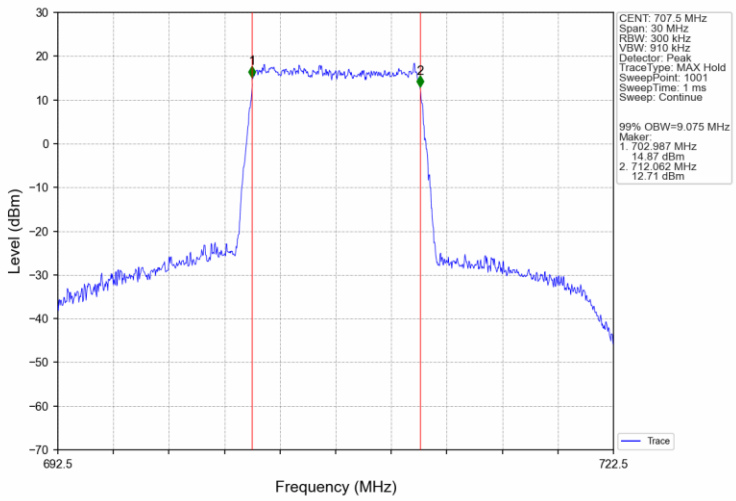
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



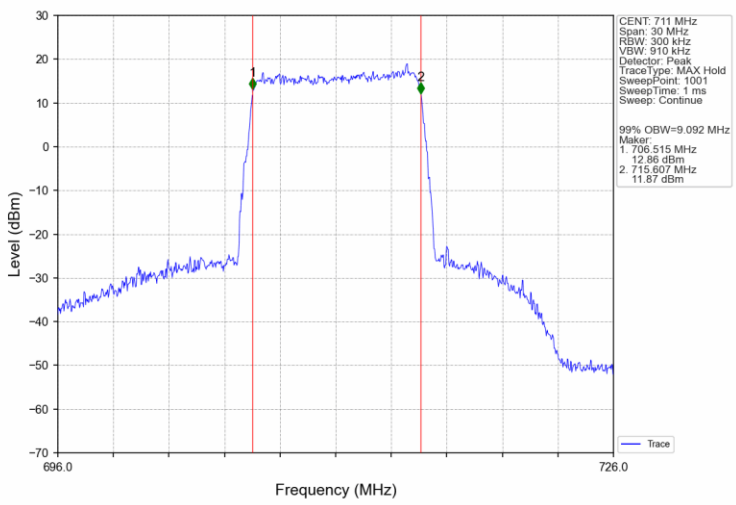
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV

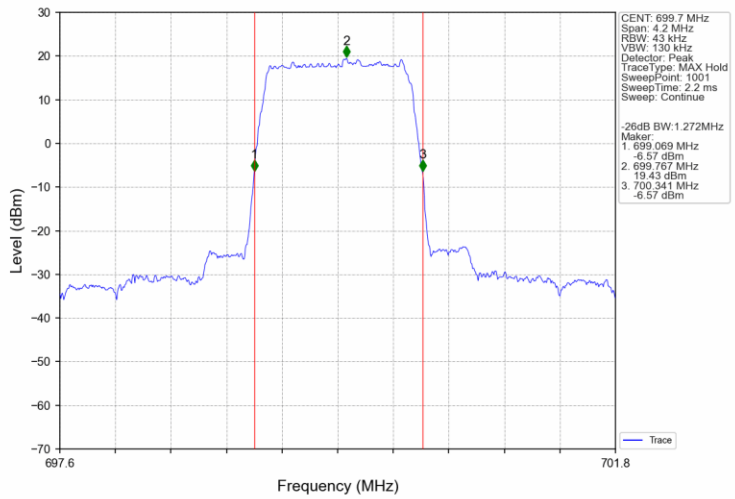


Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

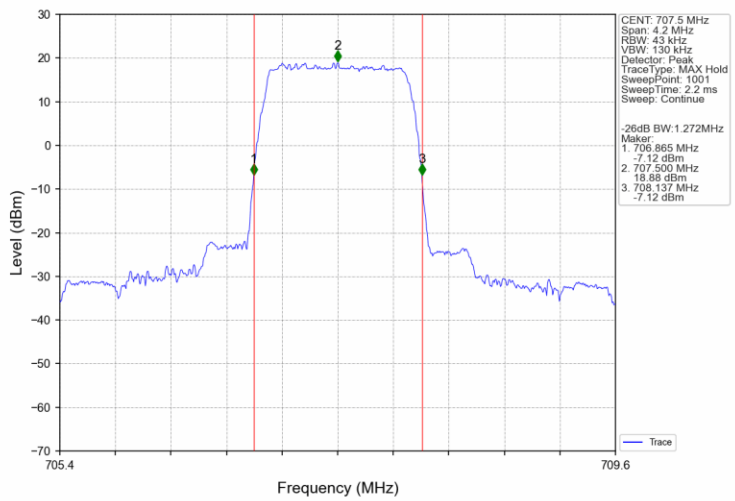


4.2.2 Band12_XDB

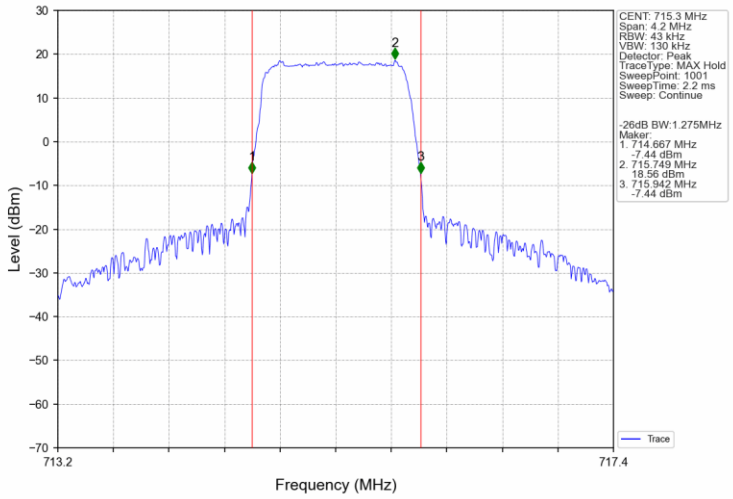
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



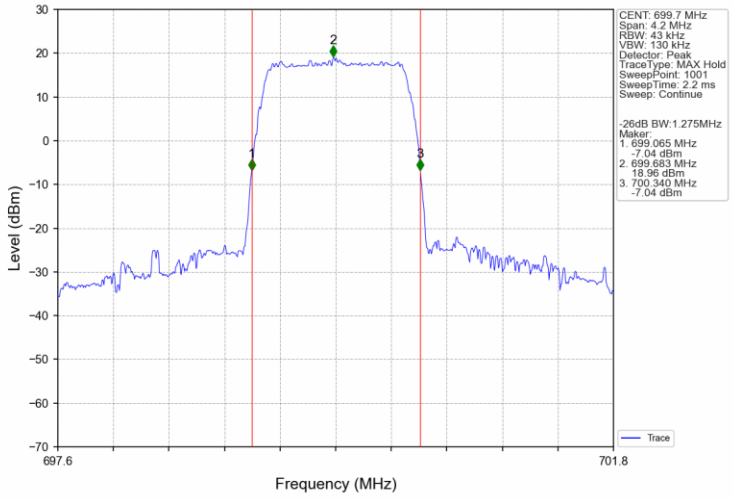
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



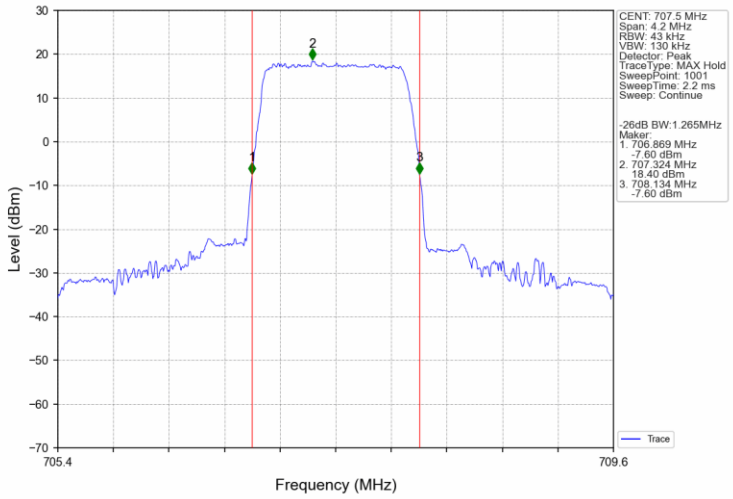
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



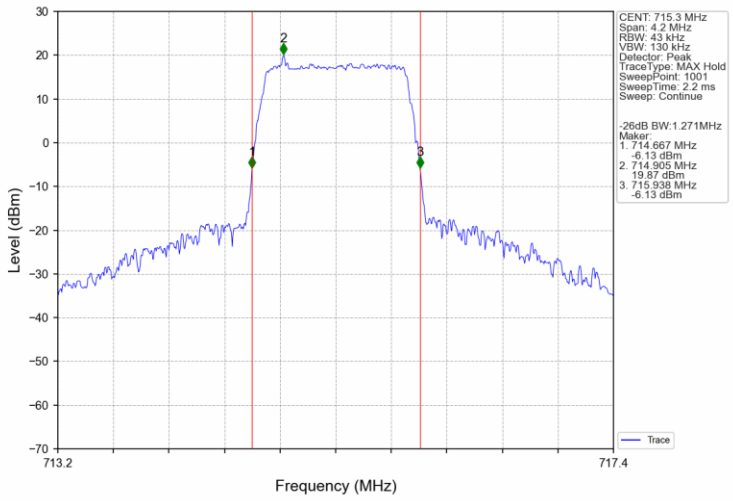
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



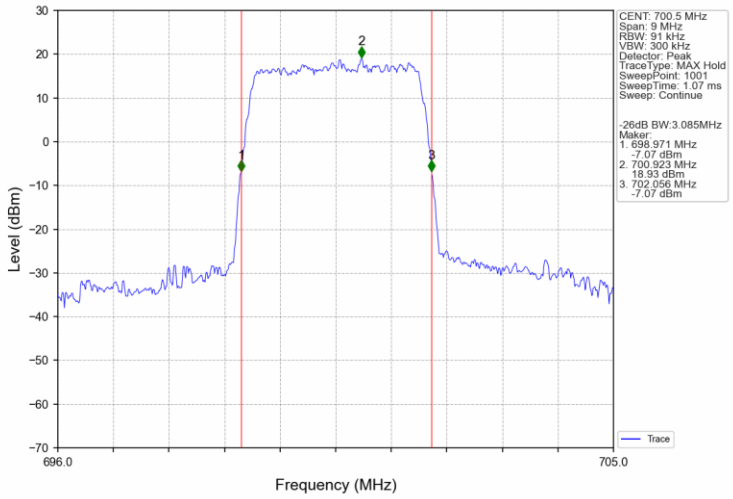
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



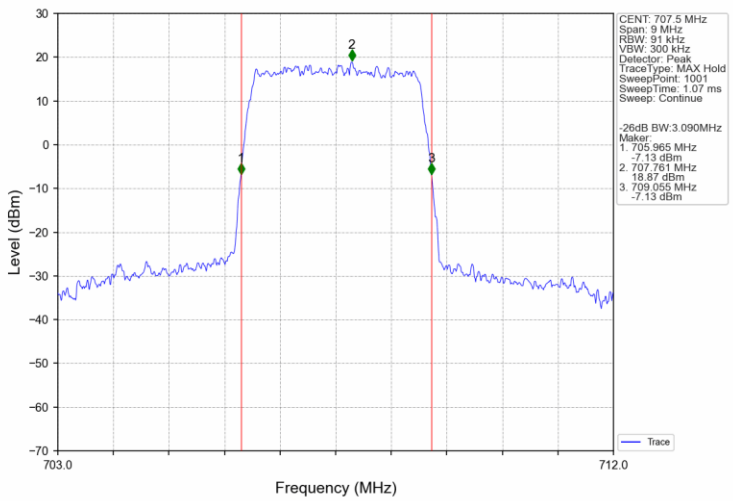
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



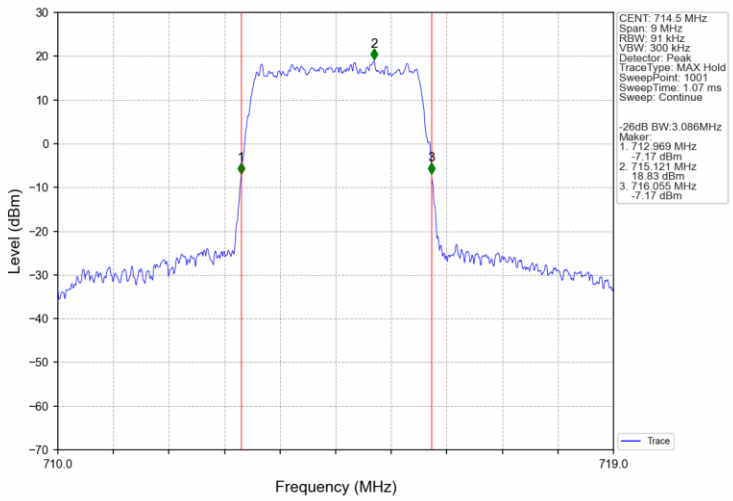
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



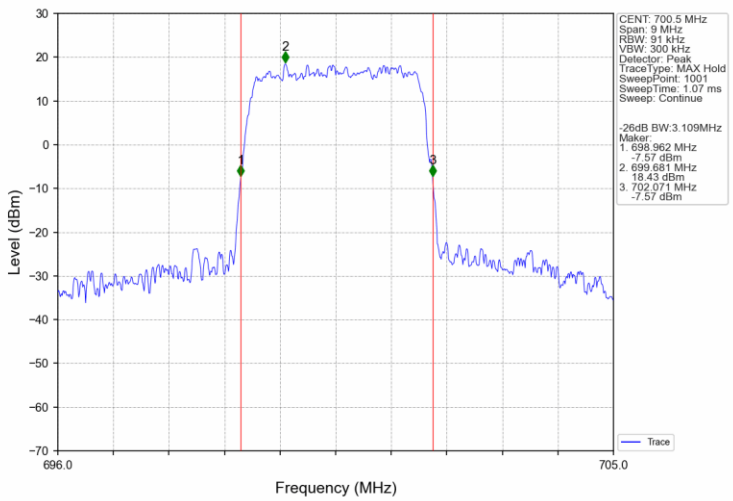
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



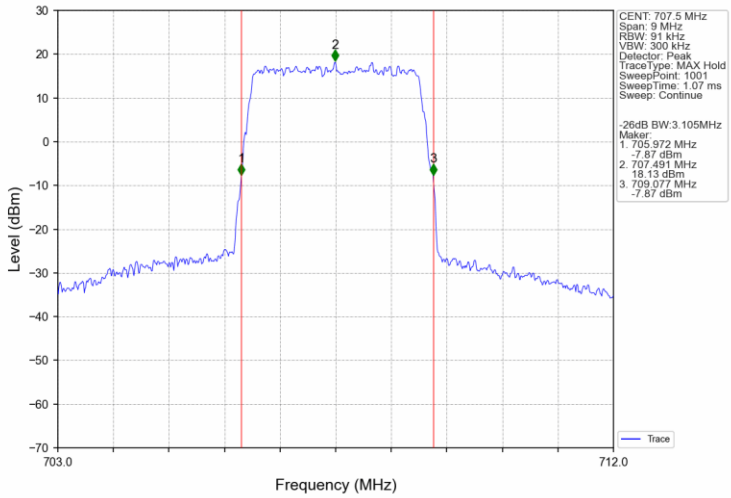
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



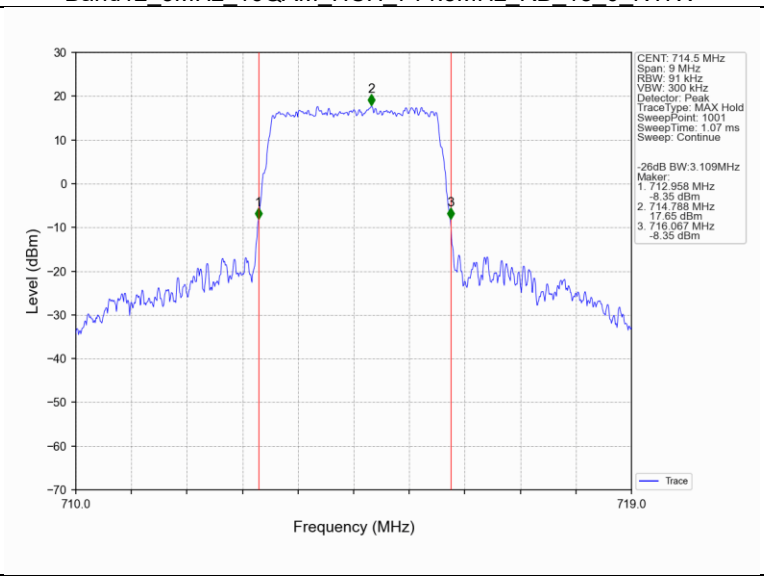
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



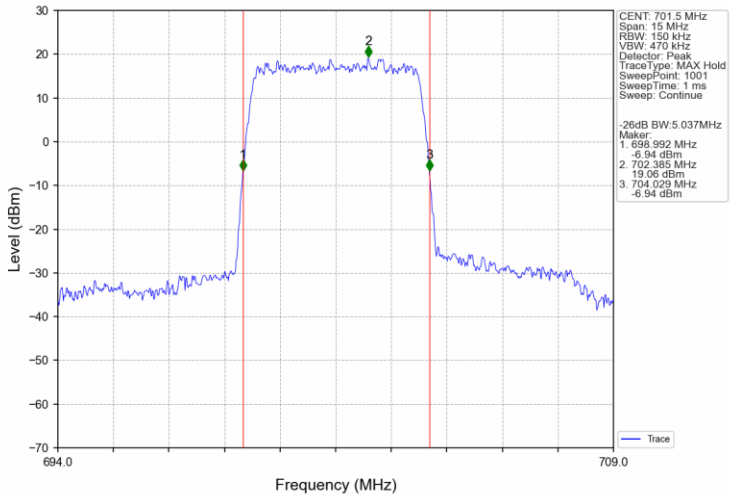
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



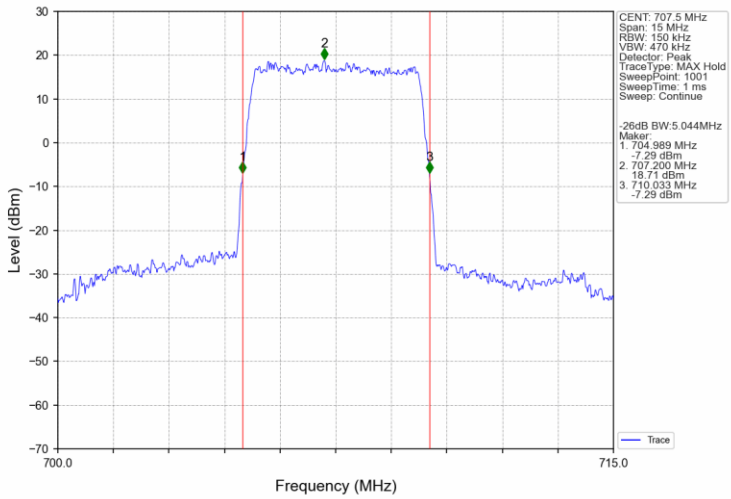
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



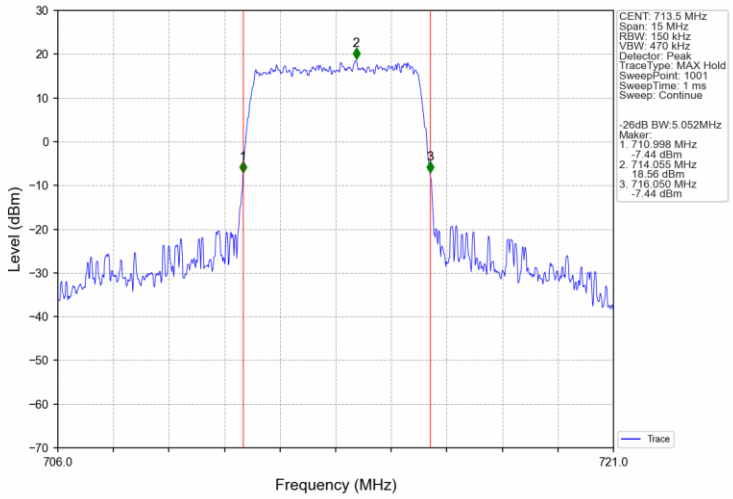
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



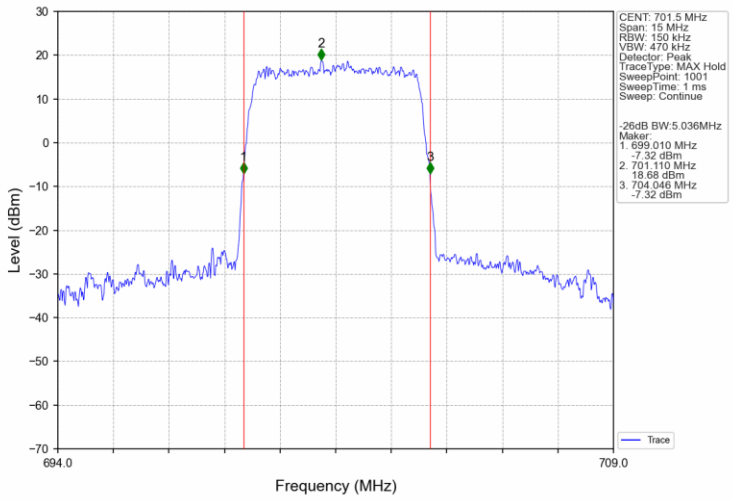
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



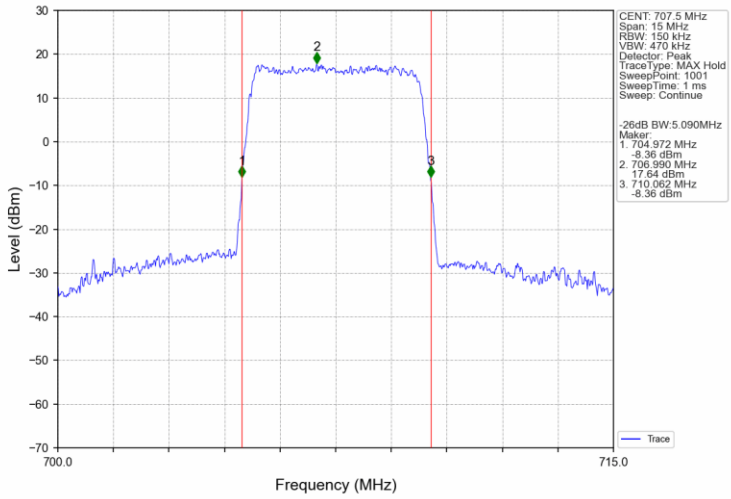
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



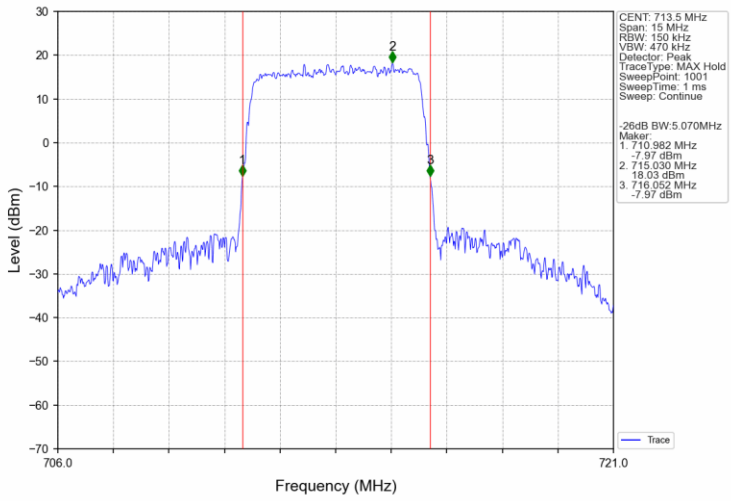
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



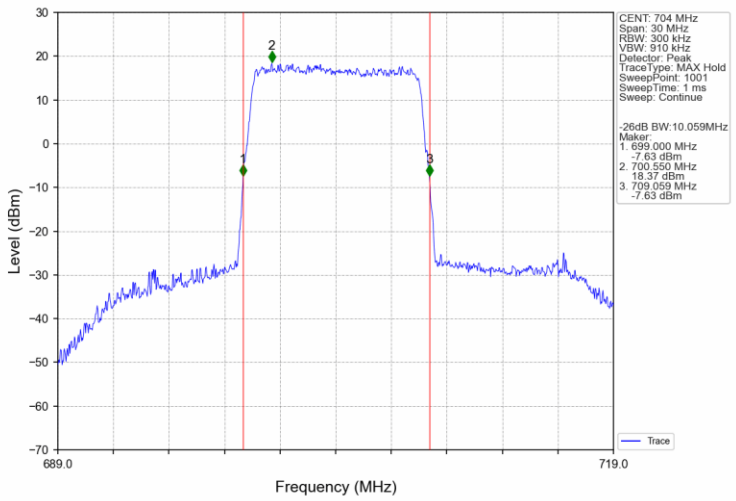
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



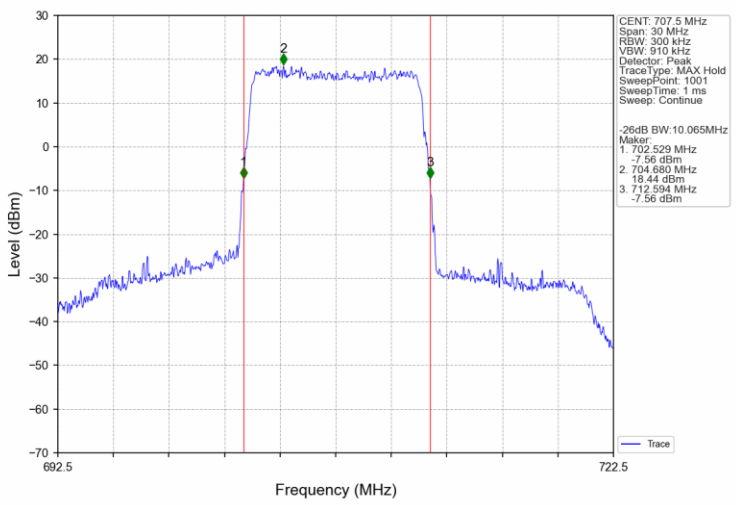
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



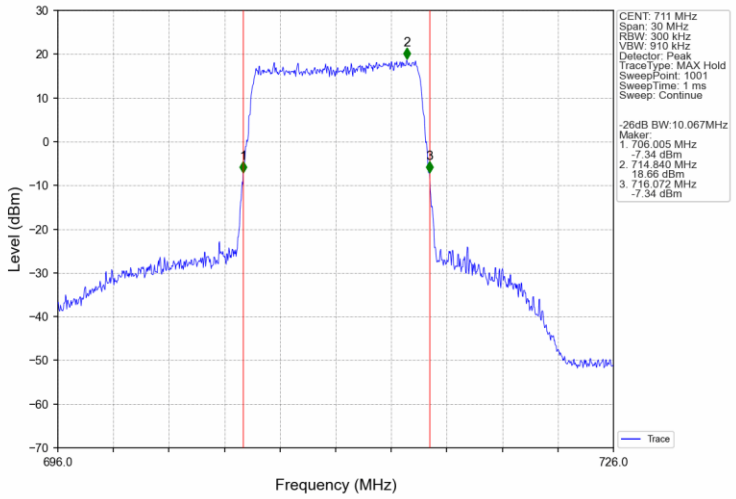
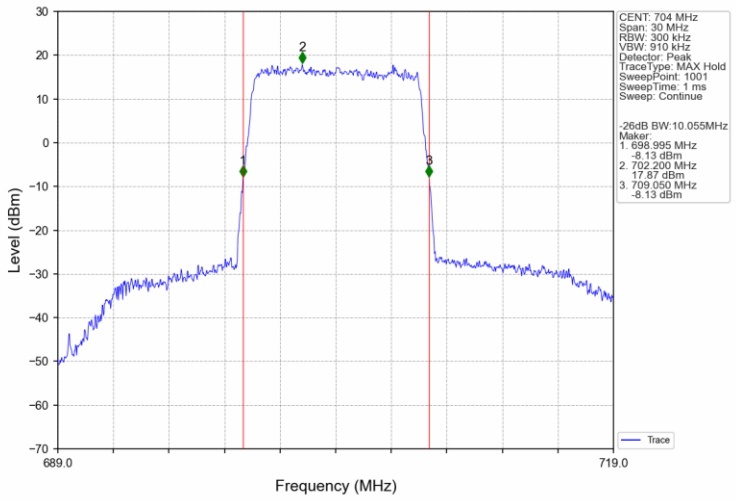
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



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