

Appendix Test Data for LTE_band_4

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	23.43	1.86	25.29	<=30	Pass
			2	23.52	1.86	25.38	<=30	Pass
			5	23.41	1.86	25.27	<=30	Pass
		3	0	23.43	1.86	25.29	<=30	Pass
			2	23.47	1.86	25.33	<=30	Pass
			3	23.44	1.86	25.30	<=30	Pass
		6	0	22.50	1.86	24.36	<=30	Pass
	1732.5	1	0	23.45	1.86	25.31	<=30	Pass
			2	23.56	1.86	25.42	<=30	Pass
			5	23.44	1.86	25.30	<=30	Pass
		3	0	23.53	1.86	25.39	<=30	Pass
			2	23.59	1.86	25.45	<=30	Pass
			3	23.52	1.86	25.38	<=30	Pass
		6	0	22.61	1.86	24.47	<=30	Pass
	1754.3	1	0	23.68	1.86	25.54	<=30	Pass
			2	23.80	1.86	25.66	<=30	Pass
			5	23.71	1.86	25.57	<=30	Pass
		3	0	23.82	1.86	25.68	<=30	Pass
			2	23.86	1.86	25.72	<=30	Pass
			3	23.80	1.86	25.66	<=30	Pass
		6	0	22.86	1.86	24.72	<=30	Pass
16QAM	1710.7	1	0	22.41	1.86	24.27	<=30	Pass
			2	22.53	1.86	24.39	<=30	Pass
			5	22.47	1.86	24.33	<=30	Pass
		3	0	22.50	1.86	24.36	<=30	Pass
			2	22.51	1.86	24.37	<=30	Pass
			3	22.47	1.86	24.33	<=30	Pass
		6	0	21.41	1.86	23.27	<=30	Pass
	1732.5	1	0	22.65	1.86	24.51	<=30	Pass
			2	22.72	1.86	24.58	<=30	Pass
			5	22.67	1.86	24.53	<=30	Pass
		3	0	22.47	1.86	24.33	<=30	Pass
			2	22.52	1.86	24.38	<=30	Pass
			3	22.51	1.86	24.37	<=30	Pass
		6	0	21.61	1.86	23.47	<=30	Pass
	1754.3	1	0	22.76	1.86	24.62	<=30	Pass
			2	22.85	1.86	24.71	<=30	Pass
			5	22.77	1.86	24.63	<=30	Pass
		3	0	23.00	1.86	24.86	<=30	Pass
			2	23.02	1.86	24.88	<=30	Pass
			3	22.99	1.86	24.85	<=30	Pass
		6	0	21.86	1.86	23.72	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	23.50	1.86	25.36	<=30	Pass
			7	23.61	1.86	25.47	<=30	Pass
			14	23.44	1.86	25.30	<=30	Pass
		8	0	22.46	1.86	24.32	<=30	Pass
			4	22.50	1.86	24.36	<=30	Pass
			7	22.46	1.86	24.32	<=30	Pass
		15	0	22.43	1.86	24.29	<=30	Pass
	1732.5	1	0	23.46	1.86	25.32	<=30	Pass
			7	23.61	1.86	25.47	<=30	Pass
			14	23.46	1.86	25.32	<=30	Pass
		8	0	22.54	1.86	24.40	<=30	Pass
			4	22.56	1.86	24.42	<=30	Pass
			7	22.50	1.86	24.36	<=30	Pass
		15	0	22.51	1.86	24.37	<=30	Pass
	1753.5	1	0	23.70	1.86	25.56	<=30	Pass
			7	23.84	1.86	25.70	<=30	Pass
			14	23.72	1.86	25.58	<=30	Pass
		8	0	22.76	1.86	24.62	<=30	Pass
			4	22.79	1.86	24.65	<=30	Pass
			7	22.77	1.86	24.63	<=30	Pass
		15	0	22.78	1.86	24.64	<=30	Pass
16QAM	1711.5	1	0	22.48	1.86	24.34	<=30	Pass
			7	22.64	1.86	24.50	<=30	Pass
			14	22.48	1.86	24.34	<=30	Pass
		8	0	21.48	1.86	23.34	<=30	Pass
			4	21.55	1.86	23.41	<=30	Pass
			7	21.48	1.86	23.34	<=30	Pass
		15	0	21.47	1.86	23.33	<=30	Pass
	1732.5	1	0	22.69	1.86	24.55	<=30	Pass
			7	22.78	1.86	24.64	<=30	Pass
			14	22.66	1.86	24.52	<=30	Pass
		8	0	21.49	1.86	23.35	<=30	Pass
			4	21.53	1.86	23.39	<=30	Pass
			7	21.46	1.86	23.32	<=30	Pass
		15	0	21.47	1.86	23.33	<=30	Pass
	1753.5	1	0	23.24	1.86	25.10	<=30	Pass
			7	23.38	1.86	25.24	<=30	Pass
			14	23.25	1.86	25.11	<=30	Pass
		8	0	21.89	1.86	23.75	<=30	Pass
			4	21.93	1.86	23.79	<=30	Pass
			7	21.91	1.86	23.77	<=30	Pass
		15	0	21.80	1.86	23.66	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	23.36	1.86	25.22	<=30	Pass
			13	23.48	1.86	25.34	<=30	Pass
			24	23.34	1.86	25.20	<=30	Pass
		12	0	22.43	1.86	24.29	<=30	Pass
			6	22.49	1.86	24.35	<=30	Pass
			13	22.46	1.86	24.32	<=30	Pass
		25	0	22.45	1.86	24.31	<=30	Pass
	1732.5	1	0	23.40	1.86	25.26	<=30	Pass
			13	23.50	1.86	25.36	<=30	Pass
			24	23.40	1.86	25.26	<=30	Pass
		12	0	22.55	1.86	24.41	<=30	Pass
			6	22.54	1.86	24.40	<=30	Pass
			13	22.46	1.86	24.32	<=30	Pass
		25	0	22.47	1.86	24.33	<=30	Pass
	1752.5	1	0	23.52	1.86	25.38	<=30	Pass
			13	23.72	1.86	25.58	<=30	Pass
			24	23.64	1.86	25.50	<=30	Pass
		12	0	22.71	1.86	24.57	<=30	Pass
			6	22.80	1.86	24.66	<=30	Pass
			13	22.78	1.86	24.64	<=30	Pass
		25	0	22.74	1.86	24.60	<=30	Pass
16QAM	1712.5	1	0	22.48	1.86	24.34	<=30	Pass
			13	22.57	1.86	24.43	<=30	Pass
			24	22.49	1.86	24.35	<=30	Pass
		12	0	21.36	1.86	23.22	<=30	Pass
			6	21.43	1.86	23.29	<=30	Pass
			13	21.44	1.86	23.30	<=30	Pass
		25	0	21.45	1.86	23.31	<=30	Pass
	1732.5	1	0	22.64	1.86	24.50	<=30	Pass
			13	22.77	1.86	24.63	<=30	Pass
			24	22.63	1.86	24.49	<=30	Pass
		12	0	21.50	1.86	23.36	<=30	Pass
			6	21.54	1.86	23.40	<=30	Pass
			13	21.45	1.86	23.31	<=30	Pass
		25	0	21.47	1.86	23.33	<=30	Pass
	1752.5	1	0	22.48	1.86	24.34	<=30	Pass
			13	22.61	1.86	24.47	<=30	Pass
			24	22.56	1.86	24.42	<=30	Pass
		12	0	21.69	1.86	23.55	<=30	Pass
			6	21.77	1.86	23.63	<=30	Pass
			13	21.72	1.86	23.58	<=30	Pass
		25	0	21.77	1.86	23.63	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	23.44	1.86	25.30	<=30	Pass
			25	23.62	1.86	25.48	<=30	Pass
			49	23.44	1.86	25.30	<=30	Pass
		25	0	22.44	1.86	24.30	<=30	Pass
			13	22.49	1.86	24.35	<=30	Pass
			25	22.57	1.86	24.43	<=30	Pass
		50	0	22.44	1.86	24.30	<=30	Pass
			0	23.44	1.86	25.30	<=30	Pass
			25	23.63	1.86	25.49	<=30	Pass
	1732.5	1	49	23.43	1.86	25.29	<=30	Pass
			0	22.55	1.86	24.41	<=30	Pass
			13	22.53	1.86	24.39	<=30	Pass
		25	25	22.49	1.86	24.35	<=30	Pass
			0	22.55	1.86	24.41	<=30	Pass
			0	23.55	1.86	25.41	<=30	Pass
		50	25	23.76	1.86	25.62	<=30	Pass
			49	23.68	1.86	25.54	<=30	Pass
			0	22.72	1.86	24.58	<=30	Pass
16QAM	1715	1	13	22.71	1.86	24.57	<=30	Pass
			25	22.78	1.86	24.64	<=30	Pass
			0	22.72	1.86	24.58	<=30	Pass
		25	0	22.41	1.86	24.27	<=30	Pass
			25	22.65	1.86	24.51	<=30	Pass
			49	22.42	1.86	24.28	<=30	Pass
		50	0	21.50	1.86	23.36	<=30	Pass
			13	21.55	1.86	23.41	<=30	Pass
			25	21.61	1.86	23.47	<=30	Pass
	1732.5	1	0	21.47	1.86	23.33	<=30	Pass
			0	22.63	1.86	24.49	<=30	Pass
			25	22.81	1.86	24.67	<=30	Pass
		25	49	22.66	1.86	24.52	<=30	Pass
			0	21.54	1.86	23.40	<=30	Pass
			13	21.53	1.86	23.39	<=30	Pass
		50	25	21.49	1.86	23.35	<=30	Pass
			0	21.51	1.86	23.37	<=30	Pass
			0	23.09	1.86	24.95	<=30	Pass
1750	1750	1	25	23.31	1.86	25.17	<=30	Pass
			49	23.25	1.86	25.11	<=30	Pass
			0	21.76	1.86	23.62	<=30	Pass
		25	13	21.71	1.86	23.57	<=30	Pass
			25	21.80	1.86	23.66	<=30	Pass
			0	21.72	1.86	23.58	<=30	Pass
		50	0	23.09	1.86	24.95	<=30	Pass
			25	23.31	1.86	25.17	<=30	Pass
			49	23.25	1.86	25.11	<=30	Pass
	1750	1	0	21.76	1.86	23.62	<=30	Pass
			13	21.71	1.86	23.57	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	23.30	1.86	25.16	<=30	Pass
			38	23.47	1.86	25.33	<=30	Pass
			74	23.34	1.86	25.20	<=30	Pass
		36	0	22.45	1.86	24.31	<=30	Pass
			18	22.57	1.86	24.43	<=30	Pass
			39	22.64	1.86	24.50	<=30	Pass
		75	0	22.57	1.86	24.43	<=30	Pass
	1732.5	1	0	23.34	1.86	25.20	<=30	Pass
			38	23.51	1.86	25.37	<=30	Pass
			74	23.38	1.86	25.24	<=30	Pass
		36	0	22.58	1.86	24.44	<=30	Pass
			18	22.63	1.86	24.49	<=30	Pass
			39	22.59	1.86	24.45	<=30	Pass
		75	0	22.59	1.86	24.45	<=30	Pass
	1747.5	1	0	23.42	1.86	25.28	<=30	Pass
			38	23.58	1.86	25.44	<=30	Pass
			74	23.61	1.86	25.47	<=30	Pass
		36	0	22.73	1.86	24.59	<=30	Pass
			18	22.75	1.86	24.61	<=30	Pass
			39	22.77	1.86	24.63	<=30	Pass
		75	0	22.75	1.86	24.61	<=30	Pass
16QAM	1717.5	1	0	22.64	1.86	24.50	<=30	Pass
			38	22.83	1.86	24.69	<=30	Pass
			74	22.67	1.86	24.53	<=30	Pass
		36	0	21.38	1.86	23.24	<=30	Pass
			18	21.48	1.86	23.34	<=30	Pass
			39	21.56	1.86	23.42	<=30	Pass
		75	0	21.51	1.86	23.37	<=30	Pass
	1732.5	1	0	22.54	1.86	24.40	<=30	Pass
			38	22.71	1.86	24.57	<=30	Pass
			74	22.61	1.86	24.47	<=30	Pass
		36	0	21.51	1.86	23.37	<=30	Pass
			18	21.56	1.86	23.42	<=30	Pass
			39	21.49	1.86	23.35	<=30	Pass
		75	0	21.55	1.86	23.41	<=30	Pass
	1747.5	1	0	22.97	1.86	24.83	<=30	Pass
			38	23.17	1.86	25.03	<=30	Pass
			74	23.16	1.86	25.02	<=30	Pass
		36	0	21.72	1.86	23.58	<=30	Pass
			18	21.72	1.86	23.58	<=30	Pass
			39	21.73	1.86	23.59	<=30	Pass
		75	0	21.70	1.86	23.56	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	23.11	1.86	24.97	<=30	Pass
			50	23.56	1.86	25.42	<=30	Pass
			99	23.15	1.86	25.01	<=30	Pass
		50	0	22.31	1.86	24.17	<=30	Pass
			25	22.49	1.86	24.35	<=30	Pass
			50	22.55	1.86	24.41	<=30	Pass
		100	0	22.42	1.86	24.28	<=30	Pass
			0	23.18	1.86	25.04	<=30	Pass
			50	23.62	1.86	25.48	<=30	Pass
	1732.5	1	99	23.31	1.86	25.17	<=30	Pass
			0	22.46	1.86	24.32	<=30	Pass
			25	22.51	1.86	24.37	<=30	Pass
		50	50	22.34	1.86	24.20	<=30	Pass
			0	22.41	1.86	24.27	<=30	Pass
			0	23.16	1.86	25.02	<=30	Pass
		100	50	23.77	1.86	25.63	<=30	Pass
			99	23.47	1.86	25.33	<=30	Pass
			0	22.66	1.86	24.52	<=30	Pass
16QAM	1720	50	25	22.68	1.86	24.54	<=30	Pass
			50	22.58	1.86	24.44	<=30	Pass
			0	22.68	1.86	24.54	<=30	Pass
		100	0	22.68	1.86	24.54	<=30	Pass
			50	23.07	1.86	24.93	<=30	Pass
			99	22.73	1.86	24.59	<=30	Pass
		1	0	21.29	1.86	23.15	<=30	Pass
			25	21.46	1.86	23.32	<=30	Pass
			50	21.51	1.86	23.37	<=30	Pass
	1732.5	50	0	21.45	1.86	23.31	<=30	Pass
			0	22.35	1.86	24.21	<=30	Pass
			50	22.84	1.86	24.70	<=30	Pass
		100	99	22.51	1.86	24.37	<=30	Pass
			0	21.42	1.86	23.28	<=30	Pass
			25	21.50	1.86	23.36	<=30	Pass
		1	50	21.35	1.86	23.21	<=30	Pass
			0	21.42	1.86	23.28	<=30	Pass
			0	22.44	1.86	24.30	<=30	Pass
	1745	50	50	23.05	1.86	24.91	<=30	Pass
			99	22.77	1.86	24.63	<=30	Pass
			0	21.69	1.86	23.55	<=30	Pass
		100	25	21.64	1.86	23.50	<=30	Pass
			50	21.55	1.86	23.41	<=30	Pass
			0	21.65	1.86	23.51	<=30	Pass
		1	0	22.44	1.86	24.30	<=30	Pass
			50	23.05	1.86	24.91	<=30	Pass
			99	22.77	1.86	24.63	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B4_1.4MHz

Band: 4 / 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	1710.7	6	0	20	3.23	-18.325	-0.0107	-2.5 to 2.5	Pass
					3.80	-2.847	-0.0017	-2.5 to 2.5	Pass
					4.37	-2.475	-0.0014	-2.5 to 2.5	Pass
				-30	3.80	-5.293	-0.0031	-2.5 to 2.5	Pass
				-20	3.80	-5.021	-0.0029	-2.5 to 2.5	Pass
				-10	3.80	-2.446	-0.0014	-2.5 to 2.5	Pass
				0	3.80	1.545	0.0009	-2.5 to 2.5	Pass
				10	3.80	-0.901	-0.0005	-2.5 to 2.5	Pass
				30	3.80	-5.064	-0.0030	-2.5 to 2.5	Pass
				40	3.80	-2.303	-0.0013	-2.5 to 2.5	Pass
				50	3.80	-1.059	-0.0006	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.23	-5.307	-0.0031	-2.5 to 2.5	Pass
					3.80	-4.764	-0.0027	-2.5 to 2.5	Pass
					4.37	-10.257	-0.0059	-2.5 to 2.5	Pass
				-30	3.80	-0.343	-0.0002	-2.5 to 2.5	Pass
				-20	3.80	-0.701	-0.0004	-2.5 to 2.5	Pass
				-10	3.80	-1.659	-0.0010	-2.5 to 2.5	Pass
				0	3.80	-2.003	-0.0012	-2.5 to 2.5	Pass
				10	3.80	-1.302	-0.0008	-2.5 to 2.5	Pass
				30	3.80	-4.148	-0.0024	-2.5 to 2.5	Pass
				40	3.80	-8.984	-0.0052	-2.5 to 2.5	Pass
				50	3.80	-7.553	-0.0044	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.23	-16.093	-0.0092	-2.5 to 2.5	Pass
					3.80	-5.479	-0.0031	-2.5 to 2.5	Pass
					4.37	-1.302	-0.0007	-2.5 to 2.5	Pass
				-30	3.80	-2.775	-0.0016	-2.5 to 2.5	Pass
				-20	3.80	-3.605	-0.0021	-2.5 to 2.5	Pass
				-10	3.80	-5.422	-0.0031	-2.5 to 2.5	Pass
				0	3.80	-7.653	-0.0044	-2.5 to 2.5	Pass
				10	3.80	-2.375	-0.0014	-2.5 to 2.5	Pass
				30	3.80	-6.237	-0.0036	-2.5 to 2.5	Pass
				40	3.80	-1.316	-0.0008	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.23	-4.492	-0.0026	-2.5 to 2.5	Pass
					3.80	-2.604	-0.0015	-2.5 to 2.5	Pass
					4.37	-5.536	-0.0032	-2.5 to 2.5	Pass
				-30	3.80	-14.863	-0.0087	-2.5 to 2.5	Pass
				-20	3.80	-4.506	-0.0026	-2.5 to 2.5	Pass
				-10	3.80	-6.509	-0.0038	-2.5 to 2.5	Pass
				0	3.80	0.830	0.0005	-2.5 to 2.5	Pass
				10	3.80	-3.233	-0.0019	-2.5 to 2.5	Pass
				30	3.80	-6.037	-0.0035	-2.5 to 2.5	Pass
				40	3.80	-3.376	-0.0020	-2.5 to 2.5	Pass
				50	3.80	-7.682	-0.0045	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.23	-6.380	-0.0037	-2.5 to 2.5	Pass
					3.80	-3.405	-0.0020	-2.5 to 2.5	Pass
					4.37	-2.089	-0.0012	-2.5 to 2.5	Pass
				-30	3.80	-10.600	-0.0061	-2.5 to 2.5	Pass
				-20	3.80	-6.881	-0.0040	-2.5 to 2.5	Pass
				-10	3.80	-0.458	-0.0003	-2.5 to 2.5	Pass

				0	3.80	0.300	0.0002	-2.5 to 2.5	Pass
				10	3.80	-4.878	-0.0028	-2.5 to 2.5	Pass
				30	3.80	-7.024	-0.0041	-2.5 to 2.5	Pass
				40	3.80	0.615	0.0004	-2.5 to 2.5	Pass
				50	3.80	-4.292	-0.0025	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.23	-5.250	-0.0030	-2.5 to 2.5	Pass
					3.80	-1.388	-0.0008	-2.5 to 2.5	Pass
					4.37	-8.111	-0.0046	-2.5 to 2.5	Pass
				-30	3.80	-11.415	-0.0065	-2.5 to 2.5	Pass
				-20	3.80	-5.665	-0.0032	-2.5 to 2.5	Pass
				-10	3.80	-2.818	-0.0016	-2.5 to 2.5	Pass
				0	3.80	-0.987	-0.0006	-2.5 to 2.5	Pass
				10	3.80	-2.103	-0.0012	-2.5 to 2.5	Pass
				30	3.80	0.529	0.0003	-2.5 to 2.5	Pass
				40	3.80	-10.915	-0.0062	-2.5 to 2.5	Pass
				50	3.80	-1.745	-0.0010	-2.5 to 2.5	Pass

2.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1711.5	15	0	20	3.23	-3.576	-0.0021	-2.5 to 2.5	Pass
					3.80	-9.227	-0.0054	-2.5 to 2.5	Pass
					4.37	-1.802	-0.0011	-2.5 to 2.5	Pass
				-30	3.80	-3.848	-0.0022	-2.5 to 2.5	Pass
				-20	3.80	-3.047	-0.0018	-2.5 to 2.5	Pass
				-10	3.80	-5.050	-0.0030	-2.5 to 2.5	Pass
				0	3.80	-5.393	-0.0032	-2.5 to 2.5	Pass
				10	3.80	-0.916	-0.0005	-2.5 to 2.5	Pass
				30	3.80	-6.151	-0.0036	-2.5 to 2.5	Pass
				40	3.80	-7.954	-0.0046	-2.5 to 2.5	Pass
				50	3.80	-5.951	-0.0035	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.23	-3.848	-0.0022	-2.5 to 2.5	Pass
					3.80	-5.794	-0.0033	-2.5 to 2.5	Pass
					4.37	-2.918	-0.0017	-2.5 to 2.5	Pass
				-30	3.80	0.386	0.0002	-2.5 to 2.5	Pass
				-20	3.80	3.119	0.0018	-2.5 to 2.5	Pass
				-10	3.80	-7.038	-0.0041	-2.5 to 2.5	Pass
				0	3.80	1.159	0.0007	-2.5 to 2.5	Pass
				10	3.80	-5.593	-0.0032	-2.5 to 2.5	Pass
				30	3.80	6.523	0.0038	-2.5 to 2.5	Pass
				40	3.80	2.418	0.0014	-2.5 to 2.5	Pass
				50	3.80	2.546	0.0015	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.23	-14.863	-0.0085	-2.5 to 2.5	Pass
					3.80	-12.703	-0.0072	-2.5 to 2.5	Pass
					4.37	-4.964	-0.0028	-2.5 to 2.5	Pass
				-30	3.80	-3.662	-0.0021	-2.5 to 2.5	Pass
				-20	3.80	-1.488	-0.0008	-2.5 to 2.5	Pass
				-10	3.80	-4.849	-0.0028	-2.5 to 2.5	Pass
				0	3.80	-5.407	-0.0031	-2.5 to 2.5	Pass
				10	3.80	-6.666	-0.0038	-2.5 to 2.5	Pass
				30	3.80	-8.082	-0.0046	-2.5 to 2.5	Pass
				40	3.80	-0.844	-0.0005	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.23	-2.775	-0.0016	-2.5 to 2.5	Pass
					3.80	-1.903	-0.0011	-2.5 to 2.5	Pass
					4.37	-0.200	-0.0001	-2.5 to 2.5	Pass
				-30	3.80	-2.403	-0.0014	-2.5 to 2.5	Pass
				-20	3.80	0.200	0.0001	-2.5 to 2.5	Pass
				-10	3.80	-4.120	-0.0024	-2.5 to 2.5	Pass
				0	3.80	-5.794	-0.0034	-2.5 to 2.5	Pass
				10	3.80	-4.449	-0.0026	-2.5 to 2.5	Pass
				30	3.80	-8.597	-0.0050	-2.5 to 2.5	Pass
				40	3.80	-6.895	-0.0040	-2.5 to 2.5	Pass
				50	3.80	-3.648	-0.0021	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.23	1.874	0.0011	-2.5 to 2.5	Pass
					3.80	-4.263	-0.0025	-2.5 to 2.5	Pass
					4.37	-2.604	-0.0015	-2.5 to 2.5	Pass
				-30	3.80	0.443	0.0003	-2.5 to 2.5	Pass
				-20	3.80	-4.506	-0.0026	-2.5 to 2.5	Pass
				-10	3.80	-1.116	-0.0006	-2.5 to 2.5	Pass
				0	3.80	-3.762	-0.0022	-2.5 to 2.5	Pass
				10	3.80	-3.090	-0.0018	-2.5 to 2.5	Pass
				30	3.80	-4.663	-0.0027	-2.5 to 2.5	Pass
				40	3.80	-1.616	-0.0009	-2.5 to 2.5	Pass
				50	3.80	-2.532	-0.0015	-2.5 to 2.5	Pass

	1753.5	15	0	20	3.23	-4.392	-0.0025	-2.5 to 2.5	Pass
					3.80	-5.450	-0.0031	-2.5 to 2.5	Pass
					4.37	-6.022	-0.0034	-2.5 to 2.5	Pass
				-30	3.80	-12.789	-0.0073	-2.5 to 2.5	Pass
				-20	3.80	-5.908	-0.0034	-2.5 to 2.5	Pass
				-10	3.80	-14.391	-0.0082	-2.5 to 2.5	Pass
				0	3.80	-5.107	-0.0029	-2.5 to 2.5	Pass
				10	3.80	-2.503	-0.0014	-2.5 to 2.5	Pass
				30	3.80	-7.811	-0.0045	-2.5 to 2.5	Pass
				40	3.80	-6.309	-0.0036	-2.5 to 2.5	Pass
				50	3.80	-5.679	-0.0032	-2.5 to 2.5	Pass

2.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1712.5	25	0	20	3.23	-5.150	-0.0030	-2.5 to 2.5	Pass
					3.80	-4.349	-0.0025	-2.5 to 2.5	Pass
					4.37	-5.050	-0.0029	-2.5 to 2.5	Pass
				-30	3.80	-1.516	-0.0009	-2.5 to 2.5	Pass
				-20	3.80	-4.706	-0.0027	-2.5 to 2.5	Pass
				-10	3.80	1.545	0.0009	-2.5 to 2.5	Pass
				0	3.80	-0.758	-0.0004	-2.5 to 2.5	Pass
				10	3.80	-3.519	-0.0021	-2.5 to 2.5	Pass
				30	3.80	-6.838	-0.0040	-2.5 to 2.5	Pass
				40	3.80	-0.129	-0.0001	-2.5 to 2.5	Pass
				50	3.80	-6.695	-0.0039	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.23	-6.294	-0.0036	-2.5 to 2.5	Pass
					3.80	-9.184	-0.0053	-2.5 to 2.5	Pass
					4.37	-7.339	-0.0042	-2.5 to 2.5	Pass
				-30	3.80	-8.883	-0.0051	-2.5 to 2.5	Pass
				-20	3.80	-4.306	-0.0025	-2.5 to 2.5	Pass
				-10	3.80	4.249	0.0025	-2.5 to 2.5	Pass
				0	3.80	-8.068	-0.0047	-2.5 to 2.5	Pass
				10	3.80	-1.445	-0.0008	-2.5 to 2.5	Pass
				30	3.80	-1.116	-0.0006	-2.5 to 2.5	Pass
				40	3.80	-8.798	-0.0051	-2.5 to 2.5	Pass
				50	3.80	-9.284	-0.0054	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.23	-12.474	-0.0071	-2.5 to 2.5	Pass
					3.80	-11.015	-0.0063	-2.5 to 2.5	Pass
					4.37	-1.431	-0.0008	-2.5 to 2.5	Pass
				-30	3.80	-1.702	-0.0010	-2.5 to 2.5	Pass
				-20	3.80	-2.432	-0.0014	-2.5 to 2.5	Pass
				-10	3.80	-8.655	-0.0049	-2.5 to 2.5	Pass
				0	3.80	2.117	0.0012	-2.5 to 2.5	Pass
				10	3.80	-7.095	-0.0040	-2.5 to 2.5	Pass
				30	3.80	-4.020	-0.0023	-2.5 to 2.5	Pass
				40	3.80	-4.535	-0.0026	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.23	-4.206	-0.0025	-2.5 to 2.5	Pass
					3.80	-5.636	-0.0033	-2.5 to 2.5	Pass
					4.37	-4.435	-0.0026	-2.5 to 2.5	Pass
				-30	3.80	-9.913	-0.0058	-2.5 to 2.5	Pass
				-20	3.80	-2.203	-0.0013	-2.5 to 2.5	Pass
				-10	3.80	-7.195	-0.0042	-2.5 to 2.5	Pass
				0	3.80	-3.791	-0.0022	-2.5 to 2.5	Pass
				10	3.80	-6.495	-0.0038	-2.5 to 2.5	Pass
				30	3.80	-6.180	-0.0036	-2.5 to 2.5	Pass
				40	3.80	1.216	0.0007	-2.5 to 2.5	Pass
				50	3.80	1.574	0.0009	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.23	2.661	0.0015	-2.5 to 2.5	Pass
					3.80	0.057	0.0000	-2.5 to 2.5	Pass
					4.37	-7.710	-0.0045	-2.5 to 2.5	Pass
				-30	3.80	-8.798	-0.0051	-2.5 to 2.5	Pass
				-20	3.80	-5.064	-0.0029	-2.5 to 2.5	Pass
				-10	3.80	-3.748	-0.0022	-2.5 to 2.5	Pass
				0	3.80	-1.144	-0.0007	-2.5 to 2.5	Pass
				10	3.80	-0.844	-0.0005	-2.5 to 2.5	Pass
				30	3.80	-2.217	-0.0013	-2.5 to 2.5	Pass
				40	3.80	-7.739	-0.0045	-2.5 to 2.5	Pass
				50	3.80	-5.150	-0.0030	-2.5 to 2.5	Pass

	1752.5	25	0	20	3.23	-3.190	-0.0018	-2.5 to 2.5	Pass
					3.80	-5.150	-0.0029	-2.5 to 2.5	Pass
					4.37	-11.873	-0.0068	-2.5 to 2.5	Pass
				-30	3.80	-8.583	-0.0049	-2.5 to 2.5	Pass
				-20	3.80	-7.911	-0.0045	-2.5 to 2.5	Pass
				-10	3.80	-2.918	-0.0017	-2.5 to 2.5	Pass
				0	3.80	-3.691	-0.0021	-2.5 to 2.5	Pass
				10	3.80	-14.906	-0.0085	-2.5 to 2.5	Pass
				30	3.80	-8.583	-0.0049	-2.5 to 2.5	Pass
				40	3.80	-7.367	-0.0042	-2.5 to 2.5	Pass
				50	3.80	-13.018	-0.0074	-2.5 to 2.5	Pass

2.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1715	50	0	20	3.23	-10.715	-0.0062	-2.5 to 2.5	Pass
					3.80	-7.610	-0.0044	-2.5 to 2.5	Pass
					4.37	-7.553	-0.0044	-2.5 to 2.5	Pass
				-30	3.80	-8.612	-0.0050	-2.5 to 2.5	Pass
				-20	3.80	-3.705	-0.0022	-2.5 to 2.5	Pass
				-10	3.80	-5.994	-0.0035	-2.5 to 2.5	Pass
				0	3.80	-8.826	-0.0051	-2.5 to 2.5	Pass
				10	3.80	-7.739	-0.0045	-2.5 to 2.5	Pass
				30	3.80	-9.599	-0.0056	-2.5 to 2.5	Pass
				40	3.80	-7.710	-0.0045	-2.5 to 2.5	Pass
				50	3.80	-7.410	-0.0043	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.23	-7.424	-0.0043	-2.5 to 2.5	Pass
					3.80	1.330	0.0008	-2.5 to 2.5	Pass
					4.37	0.057	0.0000	-2.5 to 2.5	Pass
				-30	3.80	-4.520	-0.0026	-2.5 to 2.5	Pass
				-20	3.80	-1.545	-0.0009	-2.5 to 2.5	Pass
				-10	3.80	-6.280	-0.0036	-2.5 to 2.5	Pass
				0	3.80	-2.718	-0.0016	-2.5 to 2.5	Pass
				10	3.80	-4.063	-0.0023	-2.5 to 2.5	Pass
				30	3.80	-6.509	-0.0038	-2.5 to 2.5	Pass
				40	3.80	-4.749	-0.0027	-2.5 to 2.5	Pass
				50	3.80	-2.217	-0.0013	-2.5 to 2.5	Pass
	1750	50	0	20	3.23	-9.584	-0.0055	-2.5 to 2.5	Pass
					3.80	-5.150	-0.0029	-2.5 to 2.5	Pass
					4.37	-6.065	-0.0035	-2.5 to 2.5	Pass
				-30	3.80	-1.416	-0.0008	-2.5 to 2.5	Pass
				-20	3.80	-12.360	-0.0071	-2.5 to 2.5	Pass
				-10	3.80	-9.255	-0.0053	-2.5 to 2.5	Pass
				0	3.80	-8.726	-0.0050	-2.5 to 2.5	Pass
				10	3.80	-4.778	-0.0027	-2.5 to 2.5	Pass
				30	3.80	-5.450	-0.0031	-2.5 to 2.5	Pass
				40	3.80	-6.166	-0.0035	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.23	-7.954	-0.0046	-2.5 to 2.5	Pass
					3.80	-8.340	-0.0049	-2.5 to 2.5	Pass
					4.37	-8.798	-0.0051	-2.5 to 2.5	Pass
				-30	3.80	-8.025	-0.0047	-2.5 to 2.5	Pass
				-20	3.80	-8.183	-0.0048	-2.5 to 2.5	Pass
				-10	3.80	-10.657	-0.0062	-2.5 to 2.5	Pass
				0	3.80	-9.928	-0.0058	-2.5 to 2.5	Pass
				10	3.80	-10.943	-0.0064	-2.5 to 2.5	Pass
				30	3.80	-8.512	-0.0050	-2.5 to 2.5	Pass
				40	3.80	-9.055	-0.0053	-2.5 to 2.5	Pass
				50	3.80	-6.738	-0.0039	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.23	-3.033	-0.0018	-2.5 to 2.5	Pass
					3.80	-7.238	-0.0042	-2.5 to 2.5	Pass
					4.37	-7.339	-0.0042	-2.5 to 2.5	Pass
				-30	3.80	-4.649	-0.0027	-2.5 to 2.5	Pass
				-20	3.80	-6.094	-0.0035	-2.5 to 2.5	Pass
				-10	3.80	-7.467	-0.0043	-2.5 to 2.5	Pass
				0	3.80	-3.505	-0.0020	-2.5 to 2.5	Pass
				10	3.80	-7.539	-0.0044	-2.5 to 2.5	Pass
				30	3.80	-6.924	-0.0040	-2.5 to 2.5	Pass
				40	3.80	-3.018	-0.0017	-2.5 to 2.5	Pass
				50	3.80	-4.663	-0.0027	-2.5 to 2.5	Pass

	1750	50	0	20	3.23	-7.725	-0.0044	-2.5 to 2.5	Pass
					3.80	-6.166	-0.0035	-2.5 to 2.5	Pass
					4.37	-6.208	-0.0035	-2.5 to 2.5	Pass
				-30	3.80	-8.798	-0.0050	-2.5 to 2.5	Pass
				-20	3.80	-5.264	-0.0030	-2.5 to 2.5	Pass
				-10	3.80	-7.868	-0.0045	-2.5 to 2.5	Pass
				0	3.80	-8.955	-0.0051	-2.5 to 2.5	Pass
				10	3.80	-7.825	-0.0045	-2.5 to 2.5	Pass
				30	3.80	-8.597	-0.0049	-2.5 to 2.5	Pass
				40	3.80	-10.042	-0.0057	-2.5 to 2.5	Pass
				50	3.80	-9.542	-0.0055	-2.5 to 2.5	Pass

2.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1717.5	75	0	20	3.23	-8.984	-0.0052	-2.5 to 2.5	Pass
					3.80	-6.795	-0.0040	-2.5 to 2.5	Pass
					4.37	-6.466	-0.0038	-2.5 to 2.5	Pass
				-30	3.80	-5.980	-0.0035	-2.5 to 2.5	Pass
				-20	3.80	-6.638	-0.0039	-2.5 to 2.5	Pass
				-10	3.80	-9.556	-0.0056	-2.5 to 2.5	Pass
				0	3.80	-5.107	-0.0030	-2.5 to 2.5	Pass
				10	3.80	-2.475	-0.0014	-2.5 to 2.5	Pass
				30	3.80	-4.792	-0.0028	-2.5 to 2.5	Pass
				40	3.80	-7.181	-0.0042	-2.5 to 2.5	Pass
				50	3.80	-5.851	-0.0034	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.23	-5.293	-0.0031	-2.5 to 2.5	Pass
					3.80	-2.289	-0.0013	-2.5 to 2.5	Pass
					4.37	-5.221	-0.0030	-2.5 to 2.5	Pass
				-30	3.80	-2.103	-0.0012	-2.5 to 2.5	Pass
				-20	3.80	-8.998	-0.0052	-2.5 to 2.5	Pass
				-10	3.80	-6.680	-0.0039	-2.5 to 2.5	Pass
				0	3.80	-0.043	0.0000	-2.5 to 2.5	Pass
				10	3.80	-7.396	-0.0043	-2.5 to 2.5	Pass
				30	3.80	-3.719	-0.0021	-2.5 to 2.5	Pass
				40	3.80	-6.566	-0.0038	-2.5 to 2.5	Pass
				50	3.80	-7.010	-0.0040	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.23	-9.713	-0.0056	-2.5 to 2.5	Pass
					3.80	-4.992	-0.0029	-2.5 to 2.5	Pass
					4.37	-3.033	-0.0017	-2.5 to 2.5	Pass
				-30	3.80	-5.422	-0.0031	-2.5 to 2.5	Pass
				-20	3.80	-7.238	-0.0041	-2.5 to 2.5	Pass
				-10	3.80	-6.680	-0.0038	-2.5 to 2.5	Pass
				0	3.80	-7.710	-0.0044	-2.5 to 2.5	Pass
				10	3.80	-6.652	-0.0038	-2.5 to 2.5	Pass
				30	3.80	-1.702	-0.0010	-2.5 to 2.5	Pass
				40	3.80	0.043	0.0000	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.23	-7.253	-0.0042	-2.5 to 2.5	Pass
					3.80	-5.350	-0.0031	-2.5 to 2.5	Pass
					4.37	-7.324	-0.0043	-2.5 to 2.5	Pass
				-30	3.80	-13.332	-0.0078	-2.5 to 2.5	Pass
				-20	3.80	-11.745	-0.0068	-2.5 to 2.5	Pass
				-10	3.80	-8.297	-0.0048	-2.5 to 2.5	Pass
				0	3.80	-11.144	-0.0065	-2.5 to 2.5	Pass
				10	3.80	-2.646	-0.0015	-2.5 to 2.5	Pass
				30	3.80	-8.912	-0.0052	-2.5 to 2.5	Pass
				40	3.80	-6.008	-0.0035	-2.5 to 2.5	Pass
				50	3.80	-6.180	-0.0036	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.23	-3.562	-0.0021	-2.5 to 2.5	Pass
					3.80	-9.899	-0.0057	-2.5 to 2.5	Pass
					4.37	-3.805	-0.0022	-2.5 to 2.5	Pass
				-30	3.80	-3.133	-0.0018	-2.5 to 2.5	Pass
				-20	3.80	-6.580	-0.0038	-2.5 to 2.5	Pass
				-10	3.80	-5.136	-0.0030	-2.5 to 2.5	Pass
				0	3.80	-3.777	-0.0022	-2.5 to 2.5	Pass
				10	3.80	0.114	0.0001	-2.5 to 2.5	Pass
				30	3.80	-3.862	-0.0022	-2.5 to 2.5	Pass
				40	3.80	-3.376	-0.0019	-2.5 to 2.5	Pass
				50	3.80	-3.691	-0.0021	-2.5 to 2.5	Pass

	1747.5	75	0	20	3.23	-7.267	-0.0042	-2.5 to 2.5	Pass
					3.80	-4.277	-0.0024	-2.5 to 2.5	Pass
					4.37	-2.947	-0.0017	-2.5 to 2.5	Pass
				-30	3.80	-7.081	-0.0041	-2.5 to 2.5	Pass
				-20	3.80	-7.610	-0.0044	-2.5 to 2.5	Pass
				-10	3.80	-1.402	-0.0008	-2.5 to 2.5	Pass
				0	3.80	-4.034	-0.0023	-2.5 to 2.5	Pass
				10	3.80	-5.293	-0.0030	-2.5 to 2.5	Pass
				30	3.80	-4.306	-0.0025	-2.5 to 2.5	Pass
				40	3.80	-2.232	-0.0013	-2.5 to 2.5	Pass
				50	3.80	-0.458	-0.0003	-2.5 to 2.5	Pass

2.1.6 B4_20MHz

Band: 4 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1720	100	0	20	3.23	-5.021	-0.0029	-2.5 to 2.5	Pass
					3.80	-1.917	-0.0011	-2.5 to 2.5	Pass
					4.37	-5.994	-0.0035	-2.5 to 2.5	Pass
				-30	3.80	-8.397	-0.0049	-2.5 to 2.5	Pass
				-20	3.80	-4.821	-0.0028	-2.5 to 2.5	Pass
				-10	3.80	-6.924	-0.0040	-2.5 to 2.5	Pass
				0	3.80	-4.878	-0.0028	-2.5 to 2.5	Pass
				10	3.80	-3.262	-0.0019	-2.5 to 2.5	Pass
				30	3.80	-5.679	-0.0033	-2.5 to 2.5	Pass
				40	3.80	-3.905	-0.0023	-2.5 to 2.5	Pass
				50	3.80	-8.497	-0.0049	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.23	-7.267	-0.0042	-2.5 to 2.5	Pass
					3.80	-3.777	-0.0022	-2.5 to 2.5	Pass
					4.37	-6.280	-0.0036	-2.5 to 2.5	Pass
				-30	3.80	-8.140	-0.0047	-2.5 to 2.5	Pass
				-20	3.80	-2.074	-0.0012	-2.5 to 2.5	Pass
				-10	3.80	-5.851	-0.0034	-2.5 to 2.5	Pass
				0	3.80	-6.423	-0.0037	-2.5 to 2.5	Pass
				10	3.80	-8.354	-0.0048	-2.5 to 2.5	Pass
				30	3.80	-5.264	-0.0030	-2.5 to 2.5	Pass
				40	3.80	-6.266	-0.0036	-2.5 to 2.5	Pass
				50	3.80	-6.251	-0.0036	-2.5 to 2.5	Pass
	1745	100	0	20	3.23	-3.076	-0.0018	-2.5 to 2.5	Pass
					3.80	-2.160	-0.0012	-2.5 to 2.5	Pass
					4.37	-6.008	-0.0034	-2.5 to 2.5	Pass
				-30	3.80	-4.935	-0.0028	-2.5 to 2.5	Pass
				-20	3.80	-6.895	-0.0040	-2.5 to 2.5	Pass
				-10	3.80	-6.781	-0.0039	-2.5 to 2.5	Pass
				0	3.80	-7.467	-0.0043	-2.5 to 2.5	Pass
				10	3.80	-3.390	-0.0019	-2.5 to 2.5	Pass
				30	3.80	-4.692	-0.0027	-2.5 to 2.5	Pass
				40	3.80	-2.003	-0.0011	-2.5 to 2.5	Pass
				50	3.80	-1.817	-0.0010	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.23	-4.535	-0.0026	-2.5 to 2.5	Pass
					3.80	-7.052	-0.0041	-2.5 to 2.5	Pass
					4.37	-3.262	-0.0019	-2.5 to 2.5	Pass
				-30	3.80	-5.779	-0.0034	-2.5 to 2.5	Pass
				-20	3.80	-4.106	-0.0024	-2.5 to 2.5	Pass
				-10	3.80	-7.739	-0.0045	-2.5 to 2.5	Pass
				0	3.80	-6.866	-0.0040	-2.5 to 2.5	Pass
				10	3.80	-6.909	-0.0040	-2.5 to 2.5	Pass
				30	3.80	-5.293	-0.0031	-2.5 to 2.5	Pass
				40	3.80	-2.904	-0.0017	-2.5 to 2.5	Pass
				50	3.80	-7.339	-0.0043	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.23	-1.917	-0.0011	-2.5 to 2.5	Pass
					3.80	-4.091	-0.0024	-2.5 to 2.5	Pass
					4.37	-4.120	-0.0024	-2.5 to 2.5	Pass
				-30	3.80	-4.849	-0.0028	-2.5 to 2.5	Pass
				-20	3.80	-7.281	-0.0042	-2.5 to 2.5	Pass
				-10	3.80	-7.396	-0.0043	-2.5 to 2.5	Pass
				0	3.80	-4.907	-0.0028	-2.5 to 2.5	Pass
				10	3.80	-4.349	-0.0025	-2.5 to 2.5	Pass
				30	3.80	-6.323	-0.0036	-2.5 to 2.5	Pass
				40	3.80	-6.394	-0.0037	-2.5 to 2.5	Pass
				50	3.80	-9.398	-0.0054	-2.5 to 2.5	Pass

	1745	100	0	20	3.23	-6.409	-0.0037	-2.5 to 2.5	Pass
					3.80	-2.661	-0.0015	-2.5 to 2.5	Pass
					4.37	-3.319	-0.0019	-2.5 to 2.5	Pass
				-30	3.80	-4.778	-0.0027	-2.5 to 2.5	Pass
				-20	3.80	-5.608	-0.0032	-2.5 to 2.5	Pass
				-10	3.80	-4.749	-0.0027	-2.5 to 2.5	Pass
				0	3.80	-1.245	-0.0007	-2.5 to 2.5	Pass
				10	3.80	-8.655	-0.0050	-2.5 to 2.5	Pass
				30	3.80	-3.204	-0.0018	-2.5 to 2.5	Pass
				40	3.80	-5.465	-0.0031	-2.5 to 2.5	Pass
				50	3.80	-4.106	-0.0024	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	6	0	Refer To Test Graph		Pass
16QAM	1732.5	6	0	Refer To Test Graph		Pass

3.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	15	0	Refer To Test Graph		Pass
16QAM	1732.5	15	0	Refer To Test Graph		Pass

3.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	25	0	Refer To Test Graph		Pass
16QAM	1732.5	25	0	Refer To Test Graph		Pass

3.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	50	0	Refer To Test Graph		Pass
16QAM	1732.5	50	0	Refer To Test Graph		Pass

3.1.5 B4_15MHz

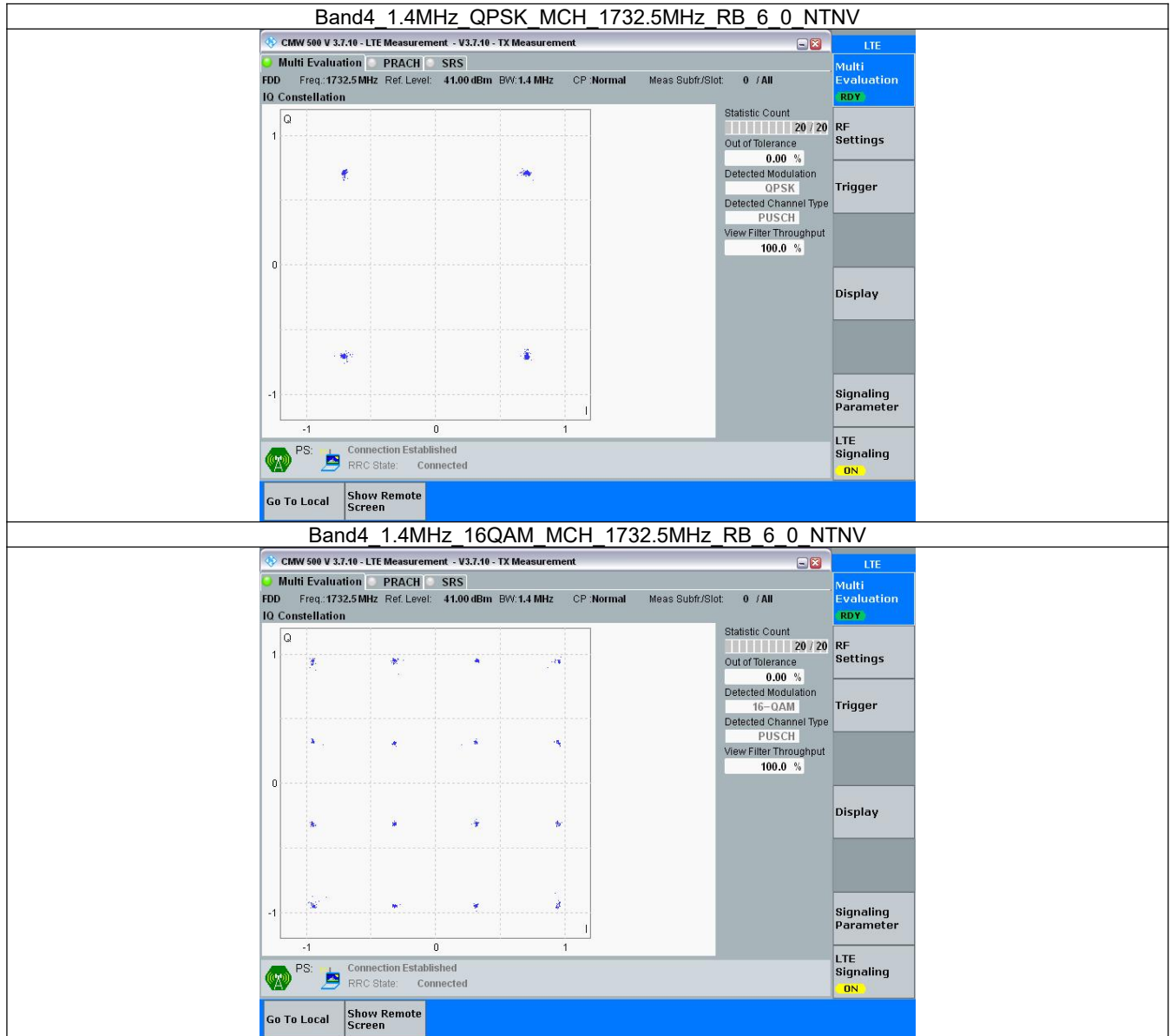
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

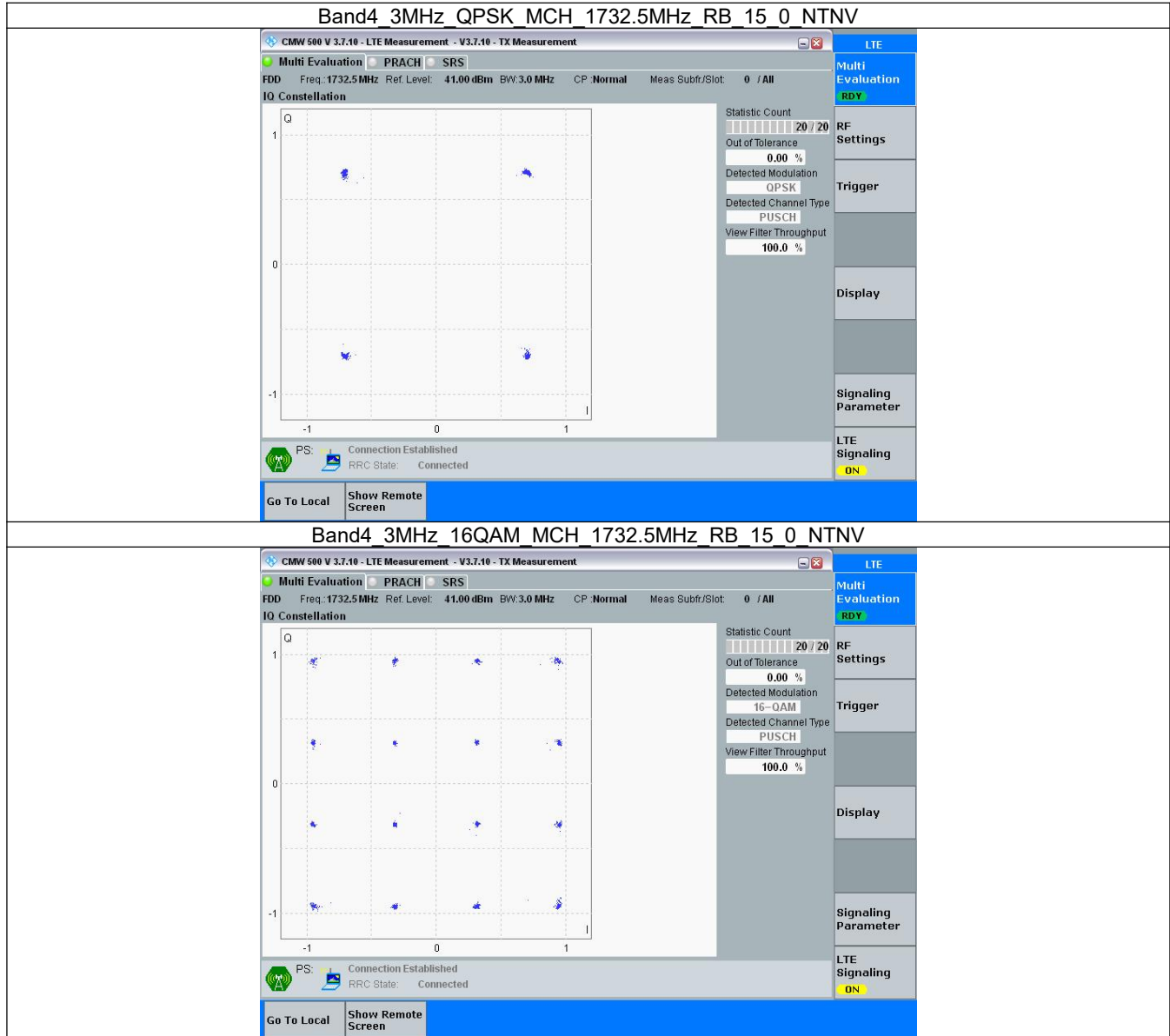
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

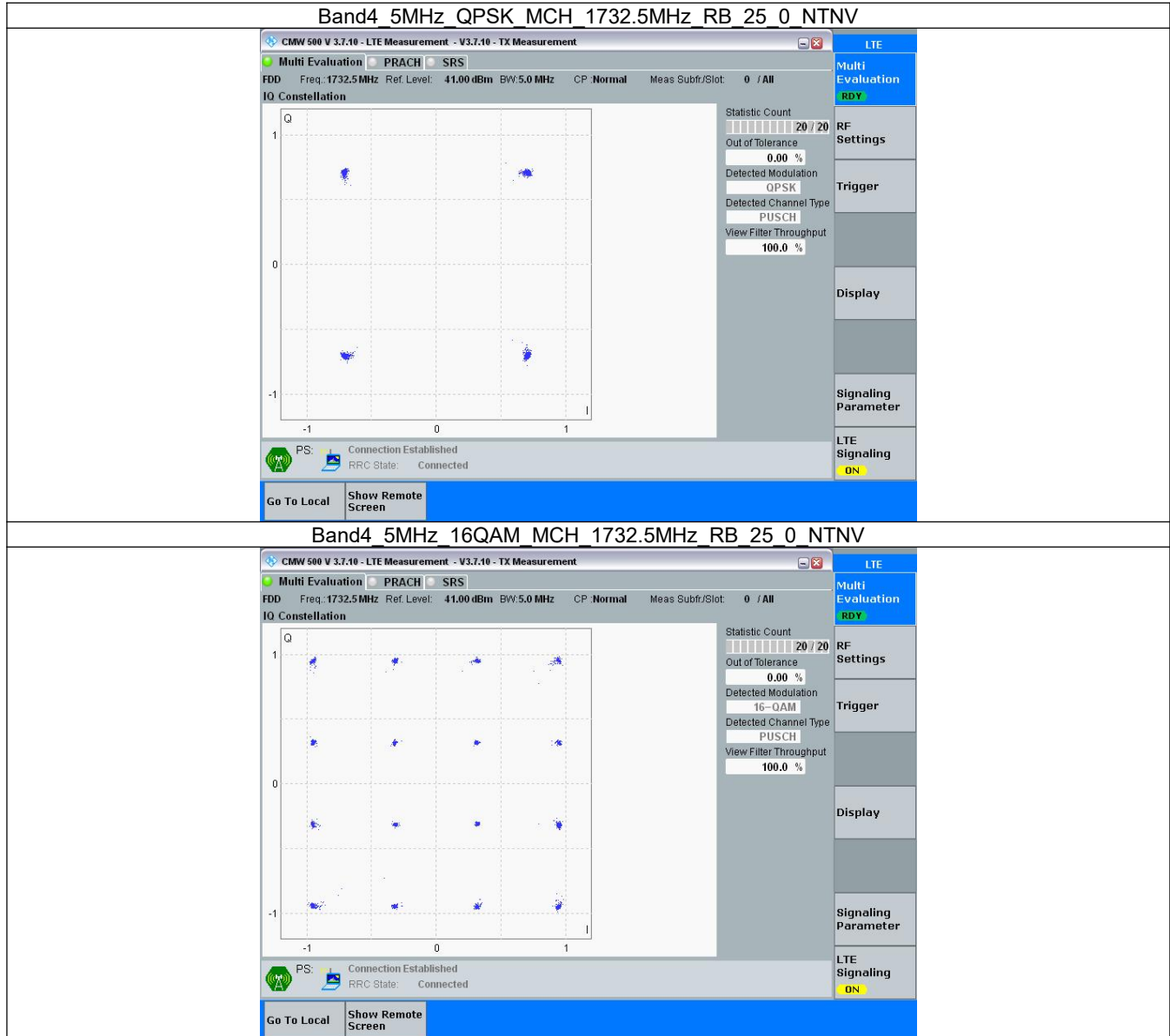
3.2.1 B4_1.4MHz



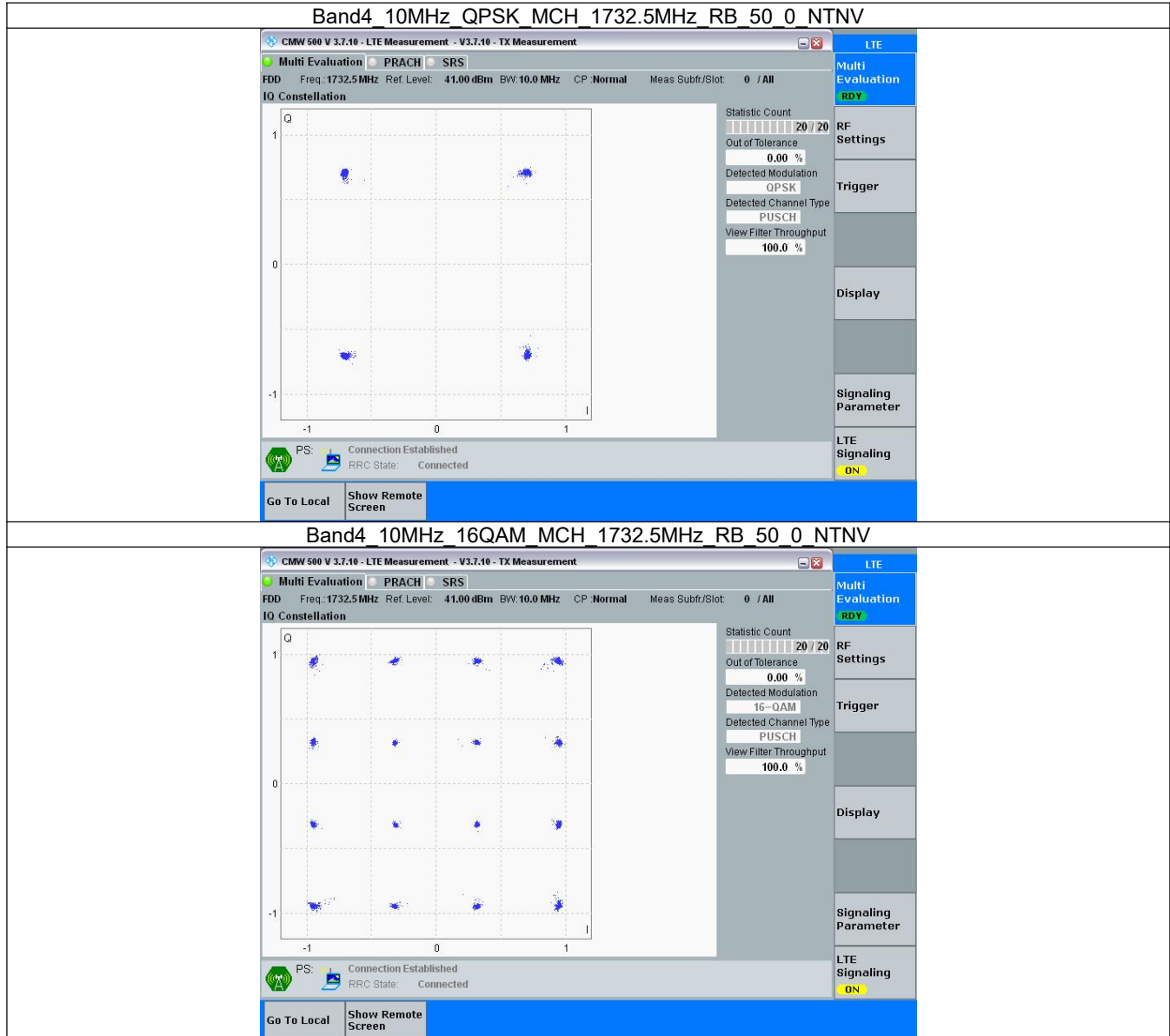
3.2.2 B4_3MHz



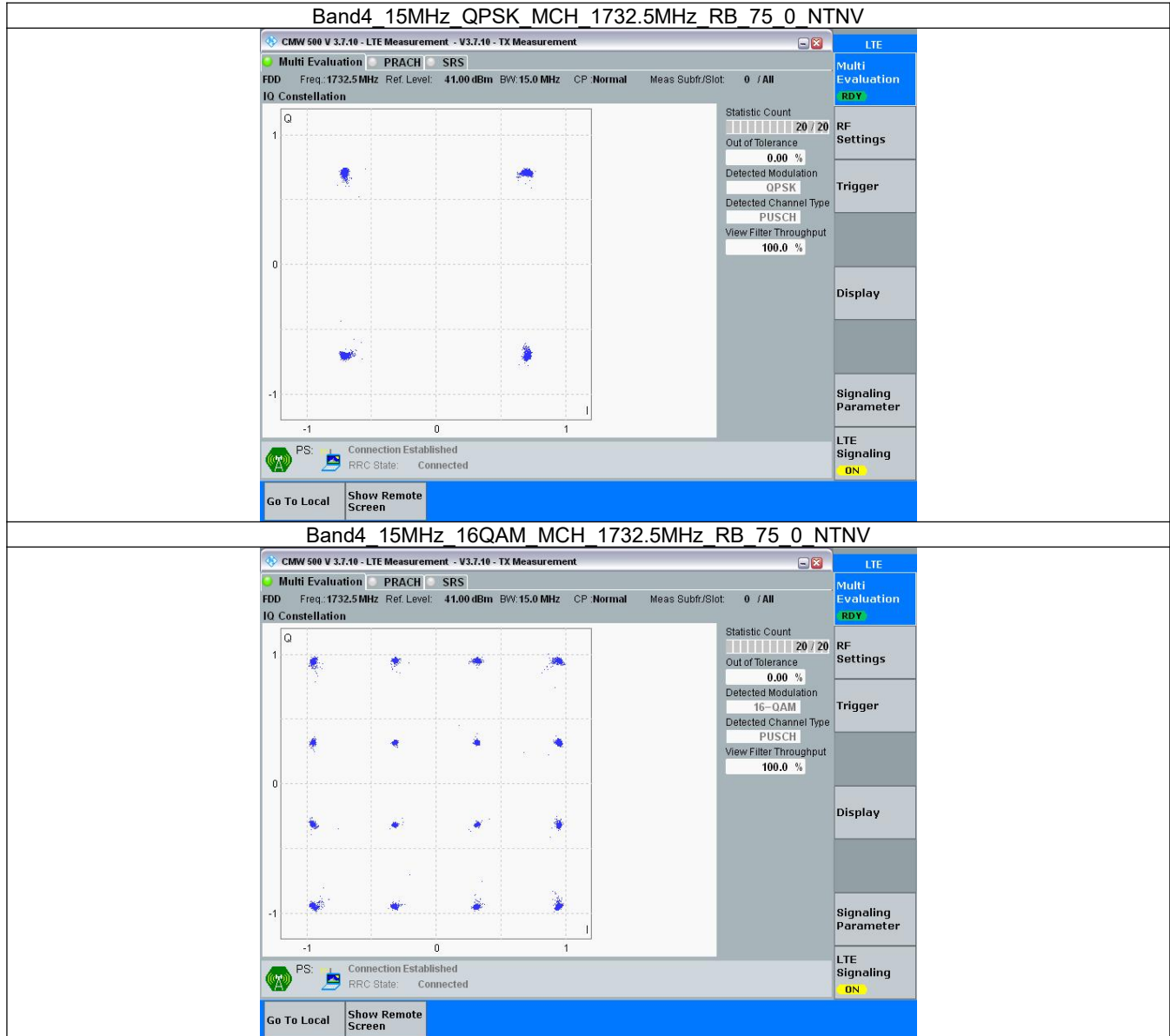
3.2.3 B4_5MHz



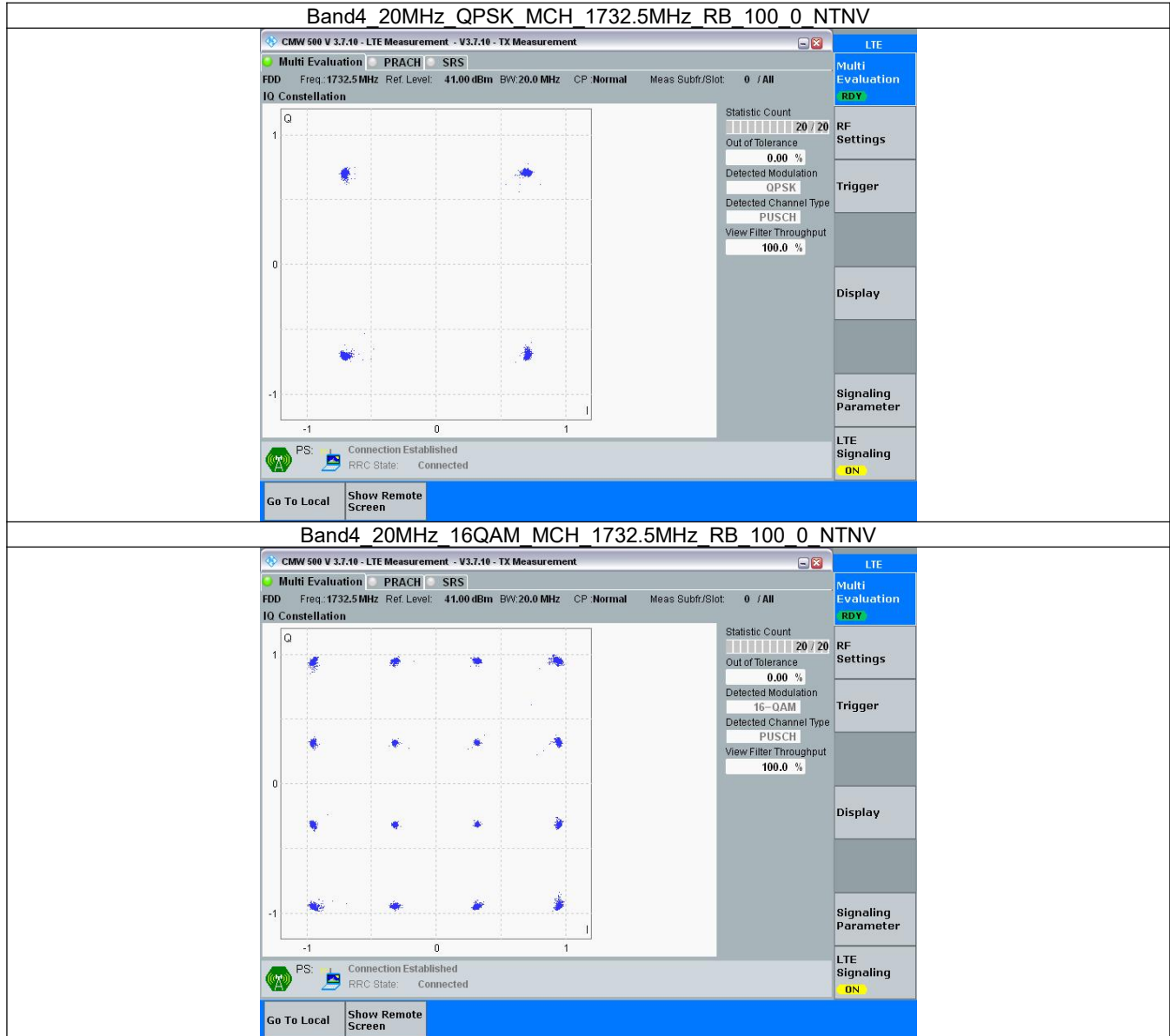
3.2.4 B4_10MHz



3.2.5 B4_15MHz



3.2.6 B4_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.104	/	Pass
		1732.5	6	0	1.120	/	Pass
		1754.3	6	0	1.104	/	Pass
	16QAM	1710.7	6	0	1.112	/	Pass
		1732.5	6	0	1.108	/	Pass
		1754.3	6	0	1.109	/	Pass
3	QPSK	1711.5	15	0	2.734	/	Pass
		1732.5	15	0	2.718	/	Pass
		1753.5	15	0	2.721	/	Pass
	16QAM	1711.5	15	0	2.724	/	Pass
		1732.5	15	0	2.728	/	Pass
		1753.5	15	0	2.719	/	Pass
5	QPSK	1712.5	25	0	4.537	/	Pass
		1732.5	25	0	4.538	/	Pass
		1752.5	25	0	4.546	/	Pass
	16QAM	1712.5	25	0	4.539	/	Pass
		1732.5	25	0	4.534	/	Pass
		1752.5	25	0	4.527	/	Pass
10	QPSK	1715	50	0	9.076	/	Pass
		1732.5	50	0	9.051	/	Pass
		1750	50	0	9.082	/	Pass
	16QAM	1715	50	0	9.050	/	Pass
		1732.5	50	0	9.050	/	Pass
		1750	50	0	9.055	/	Pass
15	QPSK	1717.5	75	0	13.602	/	Pass
		1732.5	75	0	13.561	/	Pass
		1747.5	75	0	13.595	/	Pass
	16QAM	1717.5	75	0	13.600	/	Pass
		1732.5	75	0	13.578	/	Pass
		1747.5	75	0	13.582	/	Pass
20	QPSK	1720	100	0	18.094	/	Pass
		1732.5	100	0	18.087	/	Pass
		1745	100	0	18.121	/	Pass
	16QAM	1720	100	0	18.133	/	Pass
		1732.5	100	0	18.029	/	Pass
		1745	100	0	18.228	/	Pass

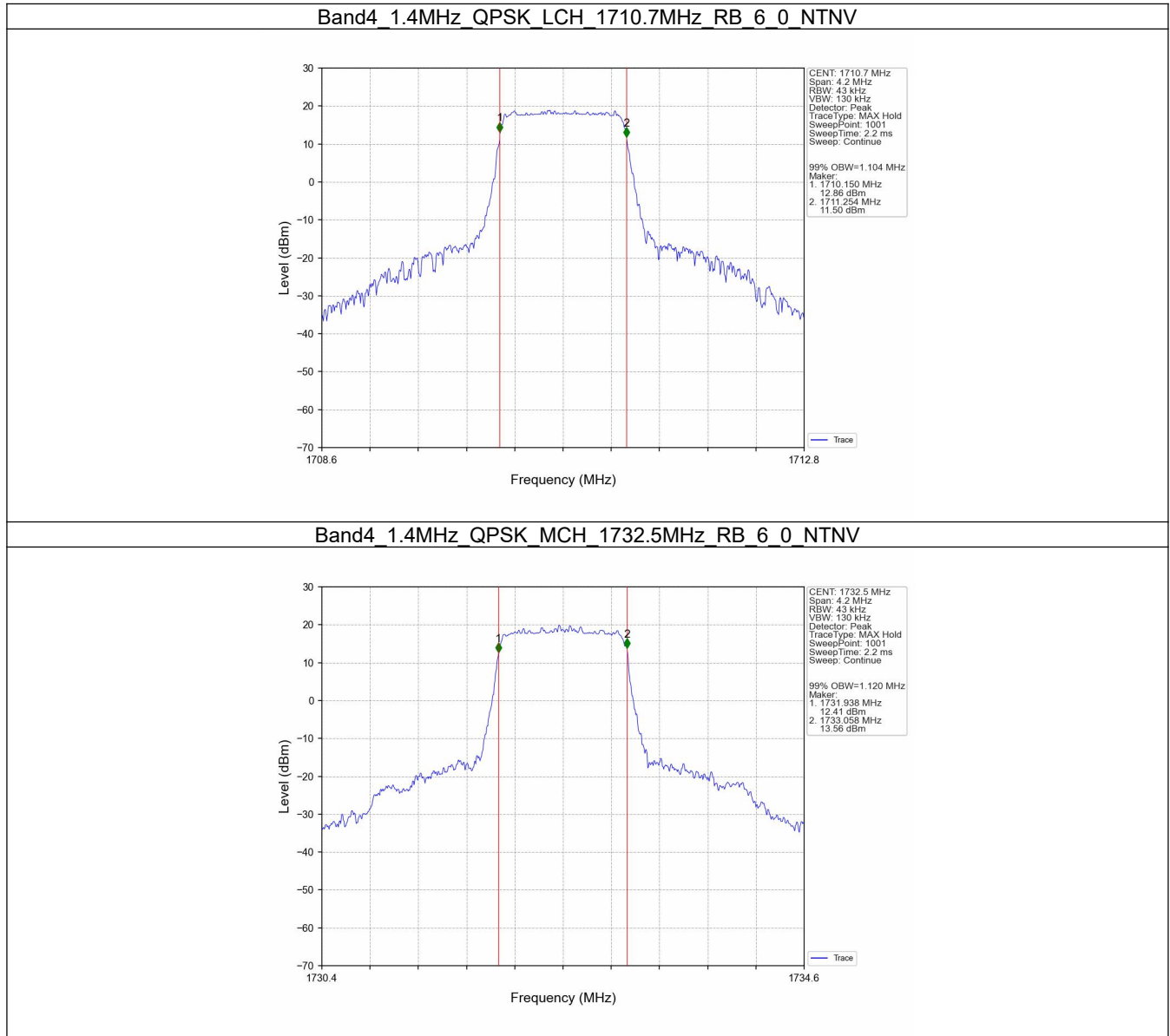
4.1.2 Band4_XDB

Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.329	/	Pass
		1732.5	6	0	1.304	/	Pass
		1754.3	6	0	1.328	/	Pass
	16QAM	1710.7	6	0	1.315	/	Pass
		1732.5	6	0	1.318	/	Pass
		1754.3	6	0	1.313	/	Pass
3	QPSK	1711.5	15	0	2.972	/	Pass

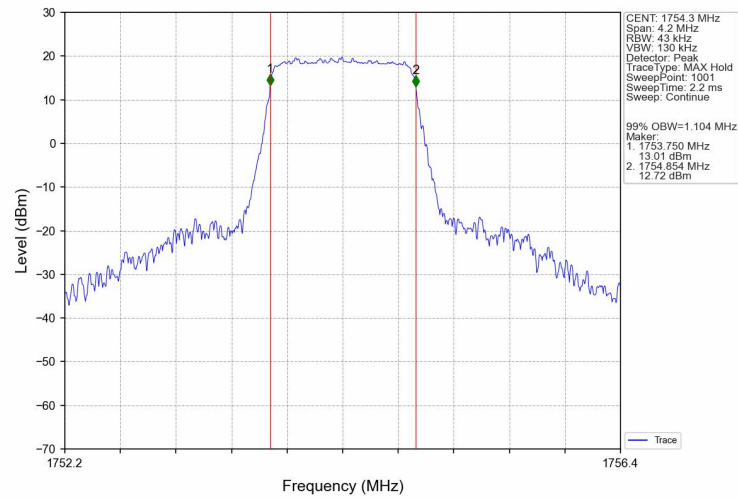
	16QAM	1732.5	15	0	2.966	/	Pass
		1753.5	15	0	2.994	/	Pass
		1711.5	15	0	2.985	/	Pass
		1732.5	15	0	2.994	/	Pass
		1753.5	15	0	2.978	/	Pass
5	QPSK	1712.5	25	0	4.984	/	Pass
		1732.5	25	0	5.016	/	Pass
		1752.5	25	0	5.026	/	Pass
	16QAM	1712.5	25	0	5.023	/	Pass
		1732.5	25	0	5.018	/	Pass
		1752.5	25	0	4.999	/	Pass
10	QPSK	1715	50	0	9.958	/	Pass
		1732.5	50	0	9.937	/	Pass
		1750	50	0	10.012	/	Pass
	16QAM	1715	50	0	9.916	/	Pass
		1732.5	50	0	9.957	/	Pass
		1750	50	0	9.890	/	Pass
15	QPSK	1717.5	75	0	14.900	/	Pass
		1732.5	75	0	14.901	/	Pass
		1747.5	75	0	14.826	/	Pass
	16QAM	1717.5	75	0	14.882	/	Pass
		1732.5	75	0	14.925	/	Pass
		1747.5	75	0	14.914	/	Pass
20	QPSK	1720	100	0	19.783	/	Pass
		1732.5	100	0	19.766	/	Pass
		1745	100	0	19.647	/	Pass
	16QAM	1720	100	0	19.714	/	Pass
		1732.5	100	0	19.719	/	Pass
		1745	100	0	19.591	/	Pass

4.2 Test Graph

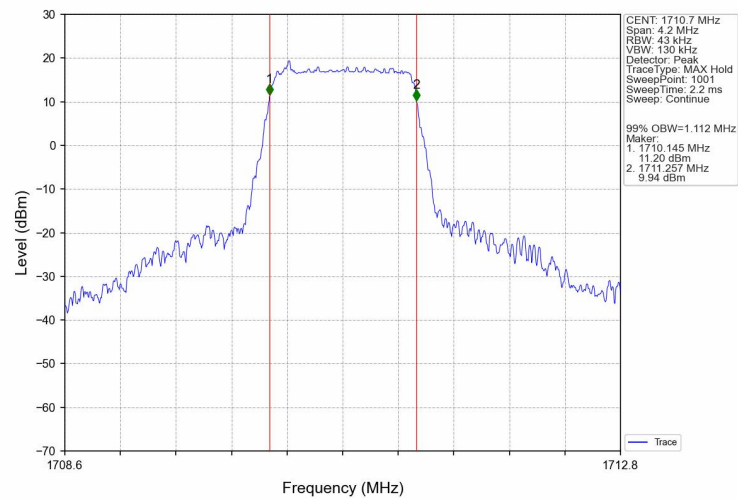
4.2.1 Band4_OBW



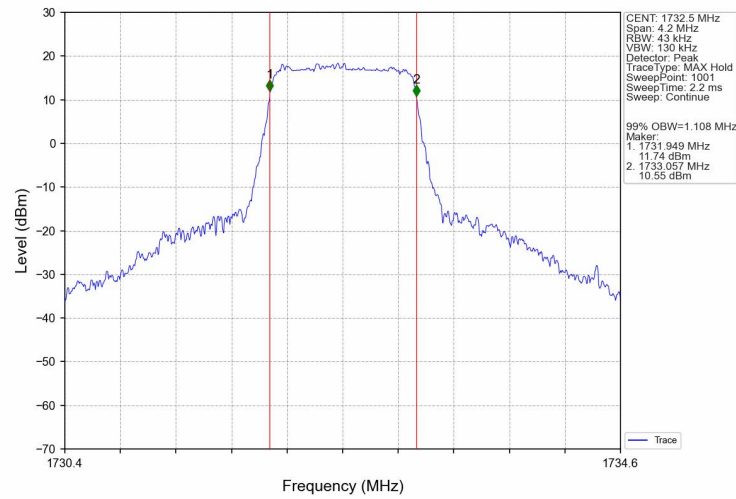
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



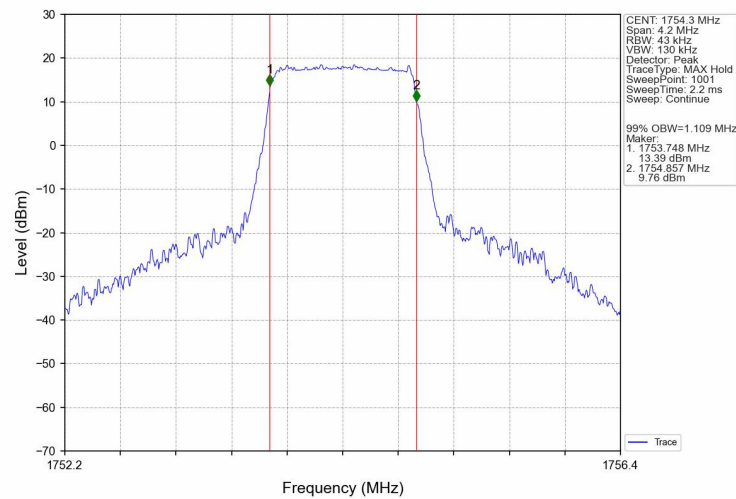
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



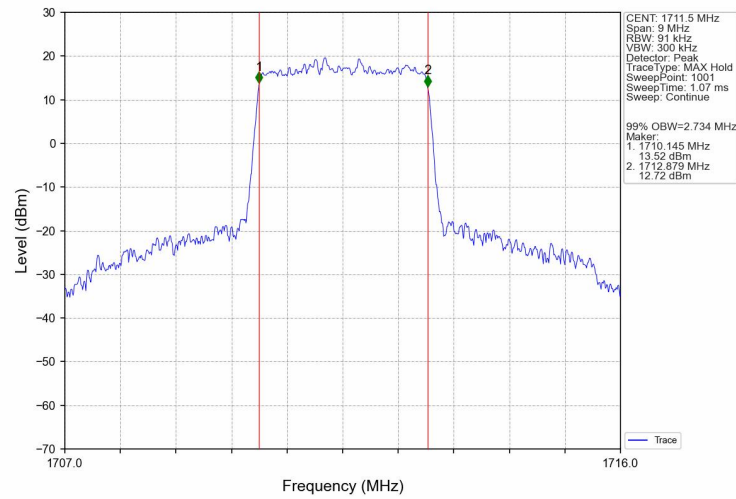
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



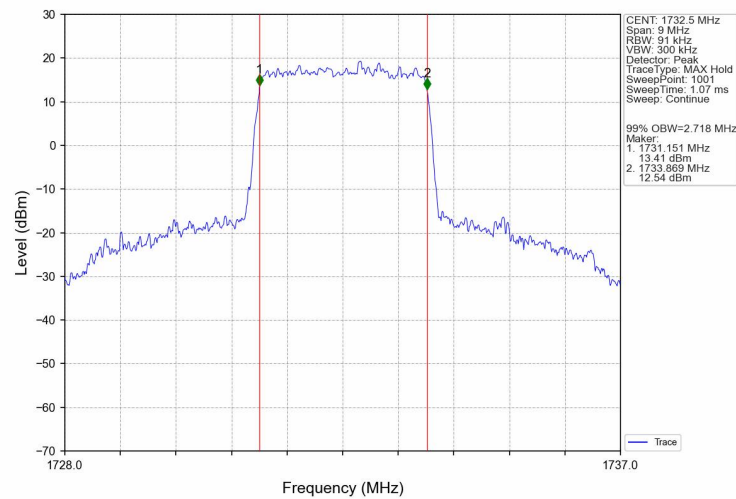
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



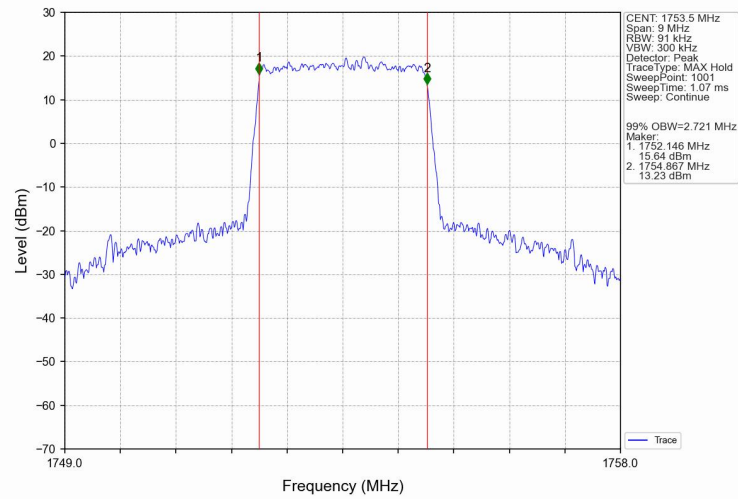
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



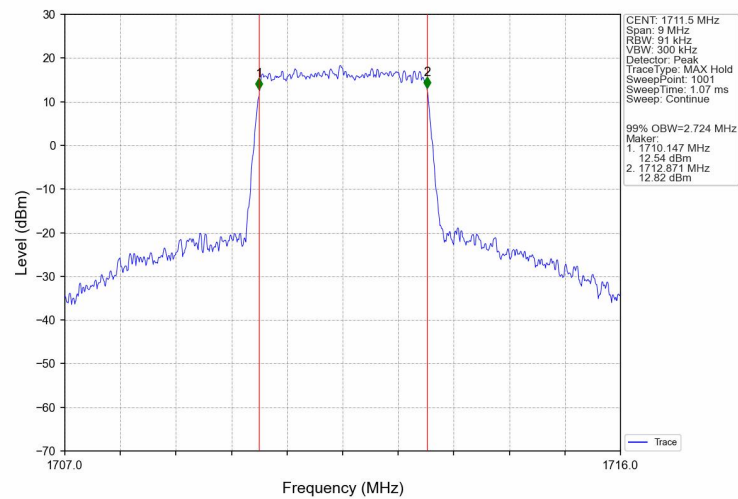
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



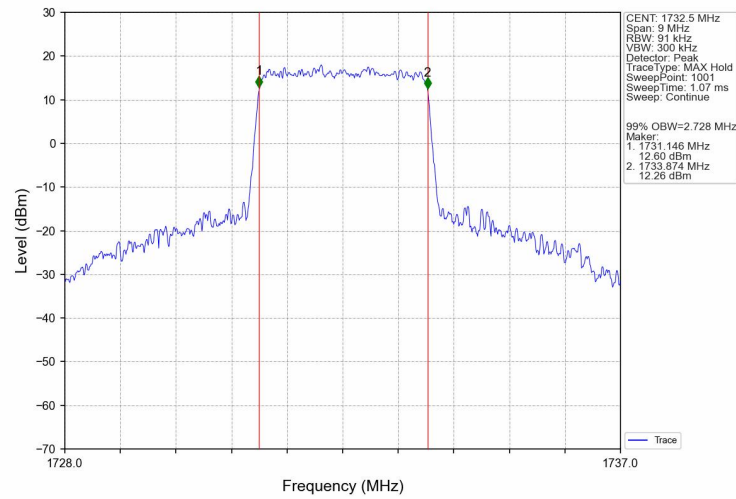
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



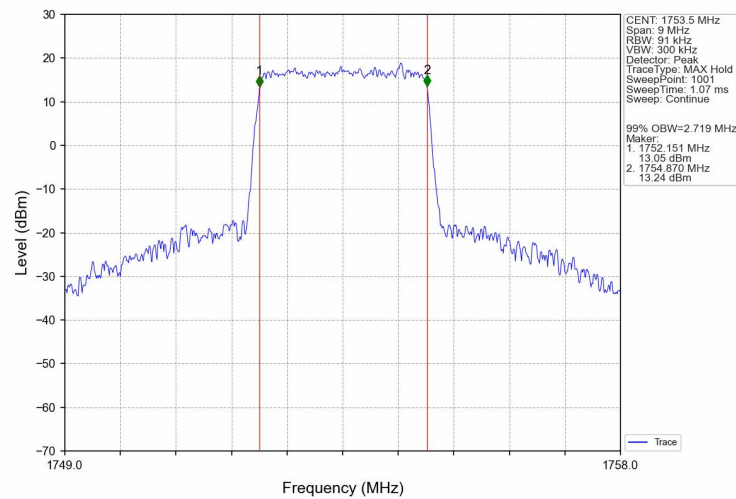
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



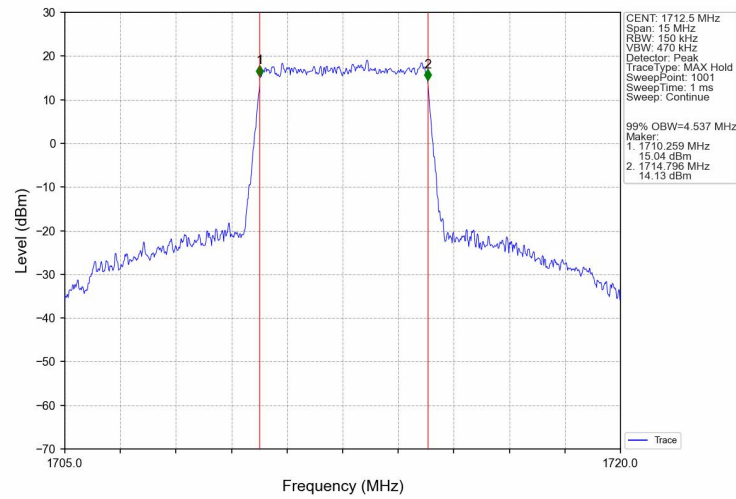
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



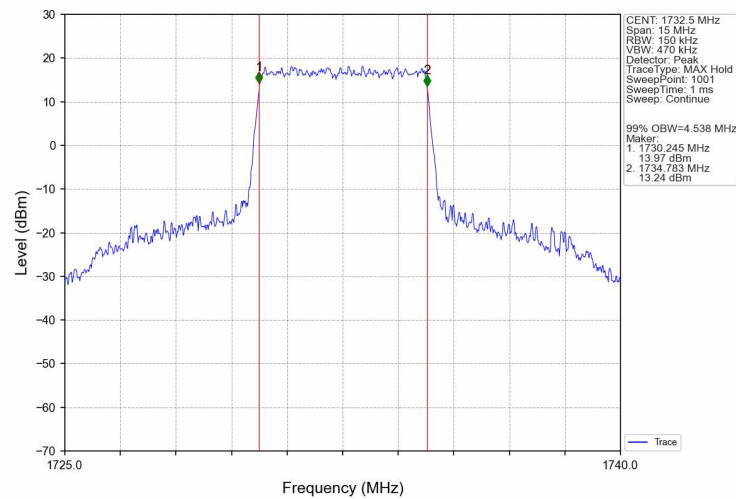
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



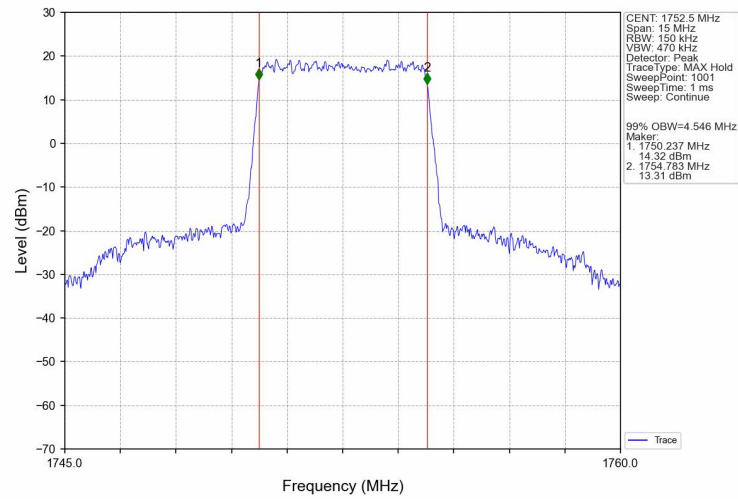
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



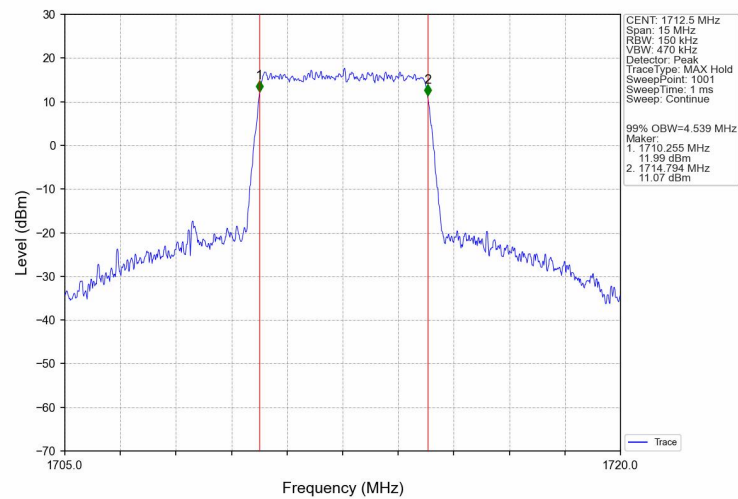
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



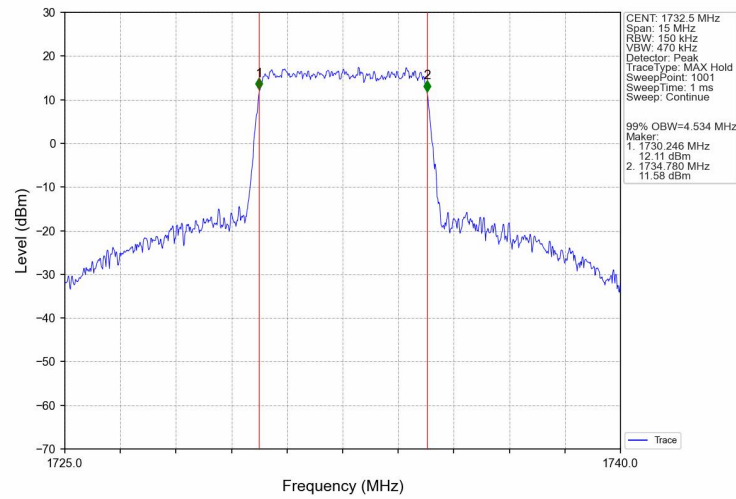
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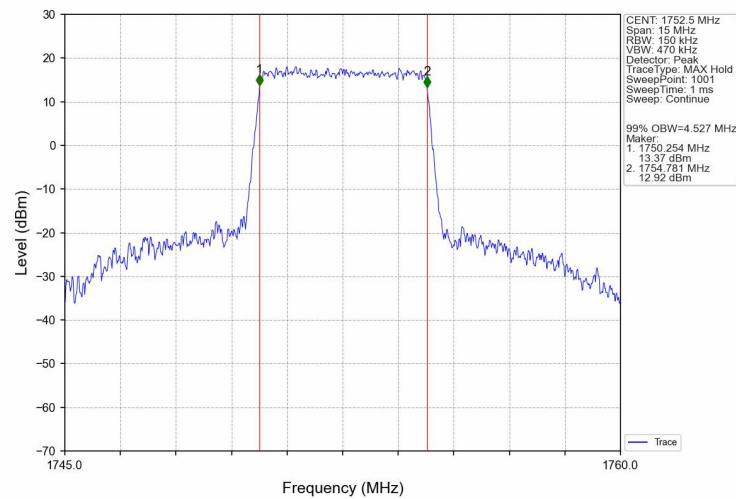
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



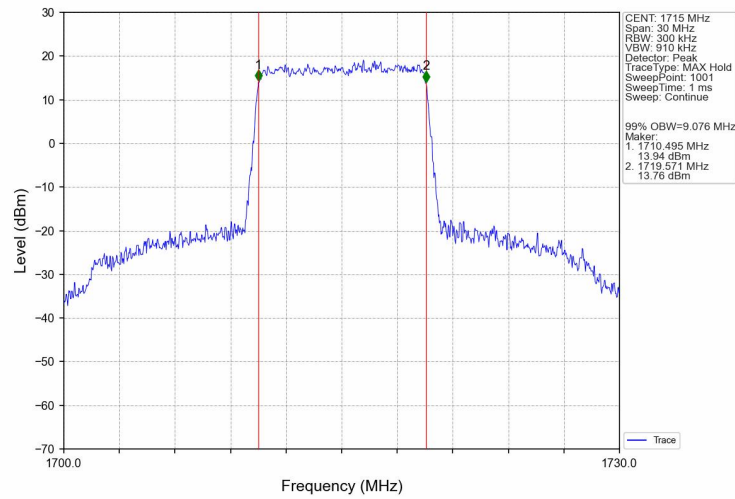
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



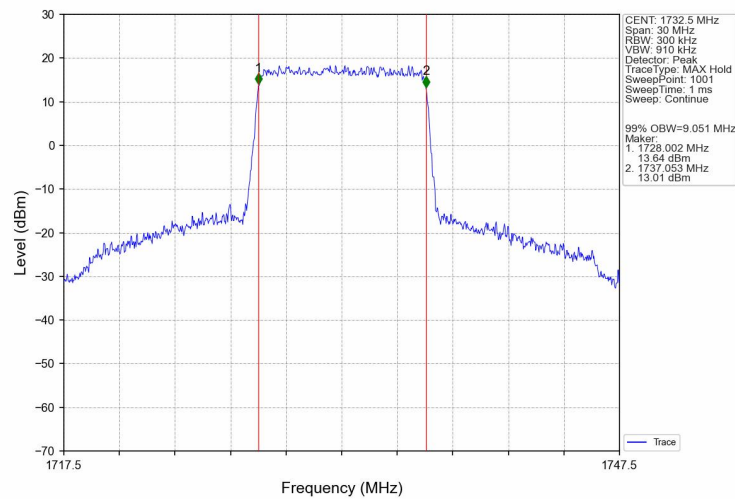
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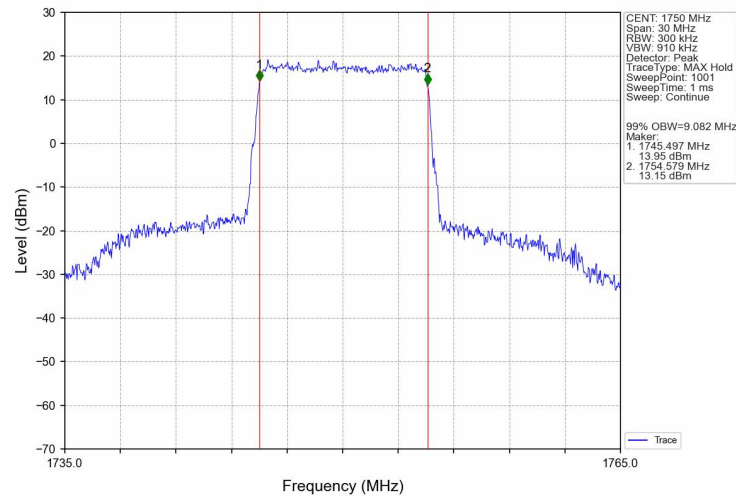
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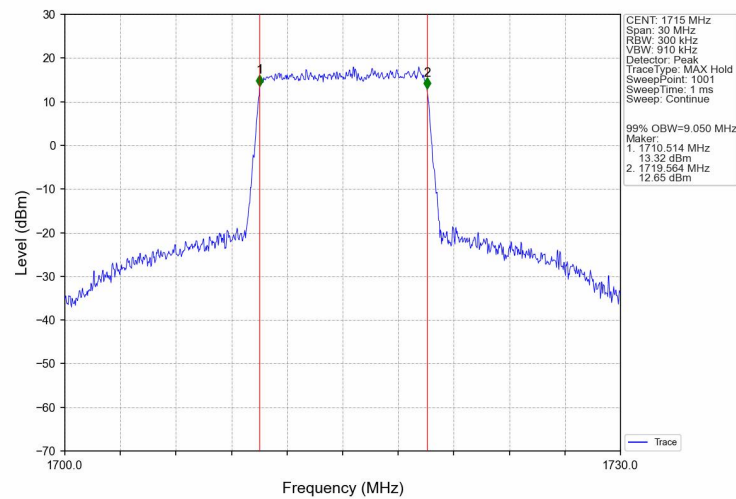
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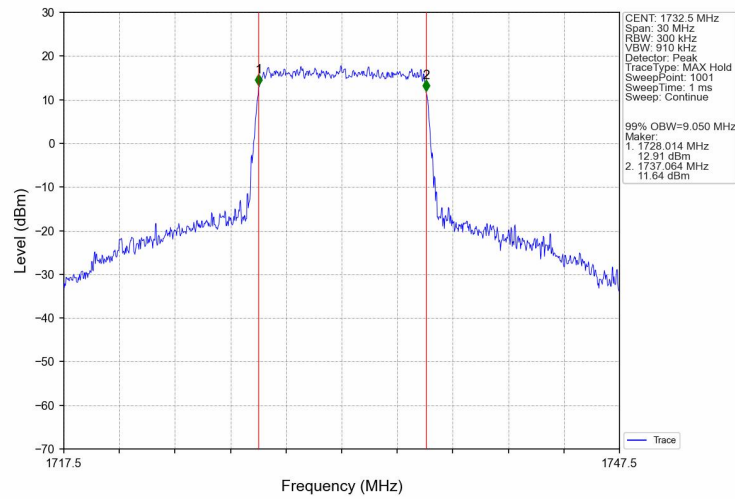
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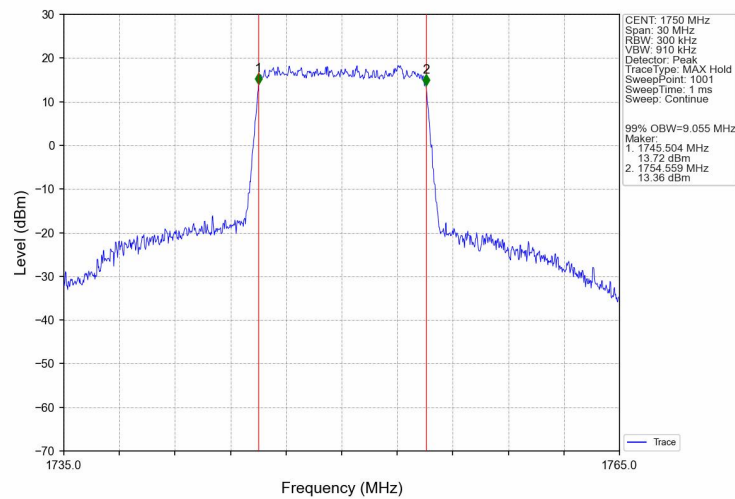
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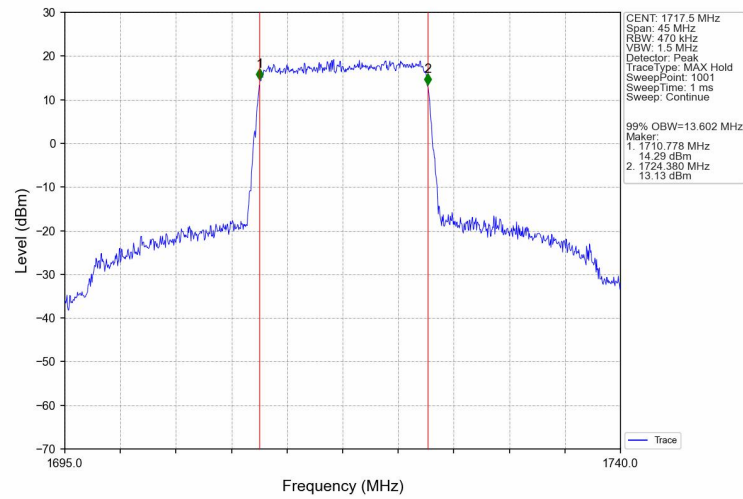
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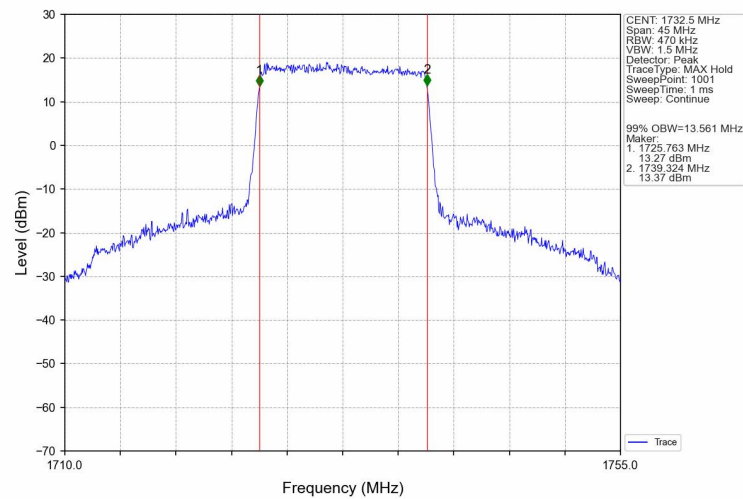
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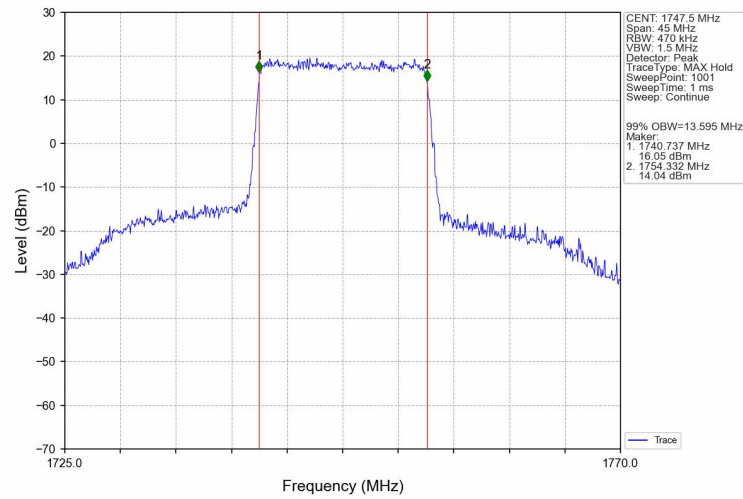
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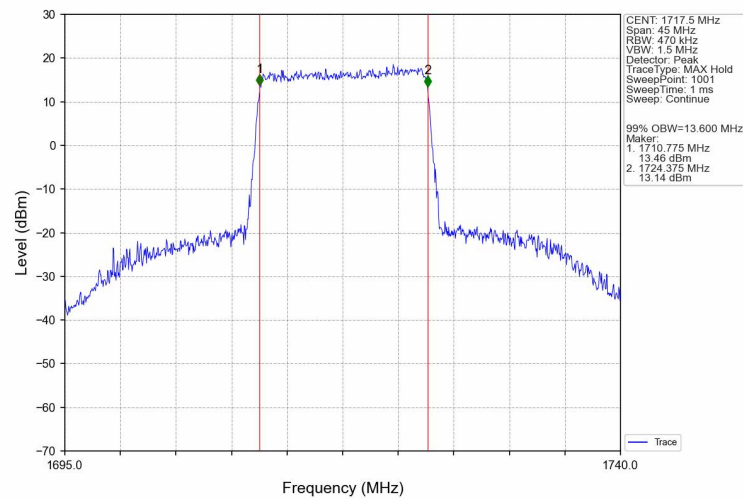
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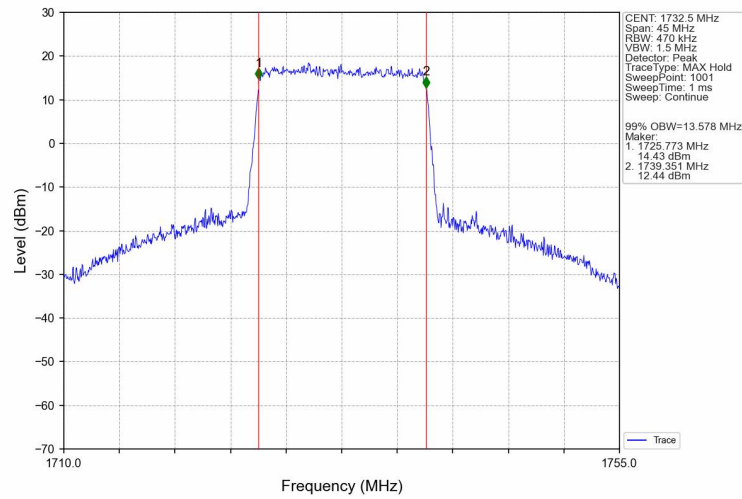
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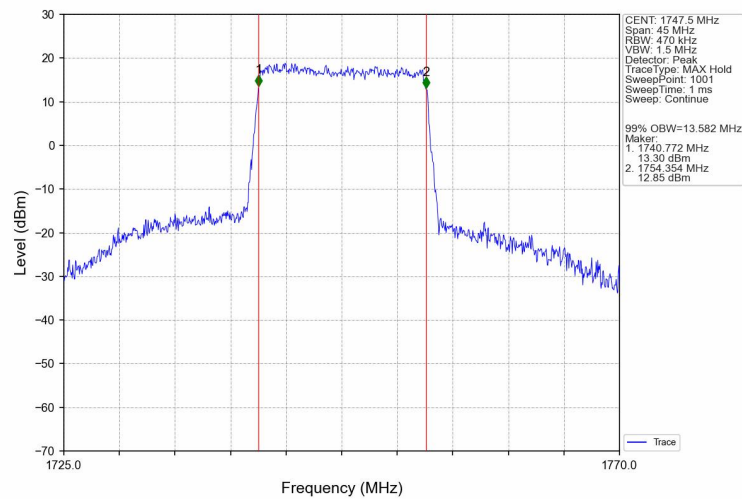
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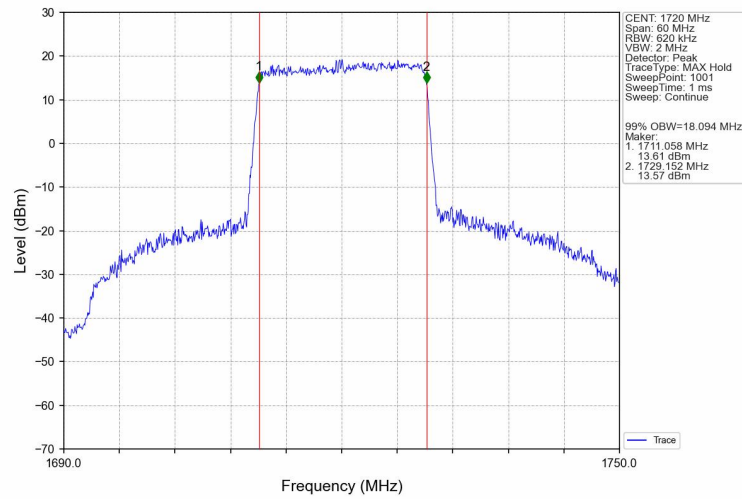
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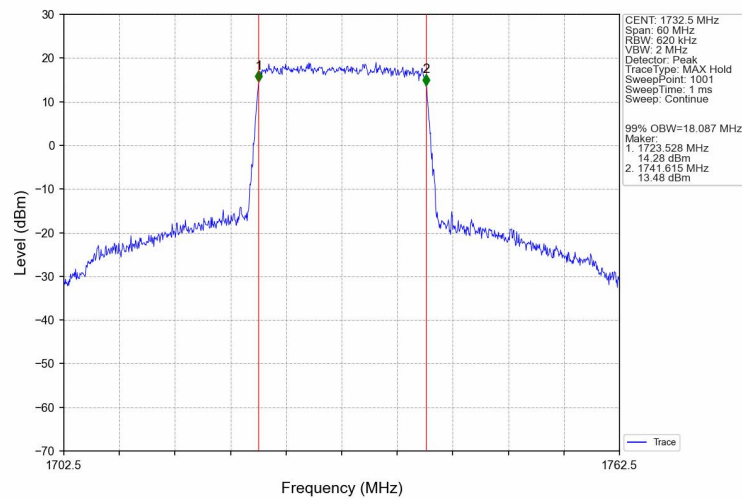
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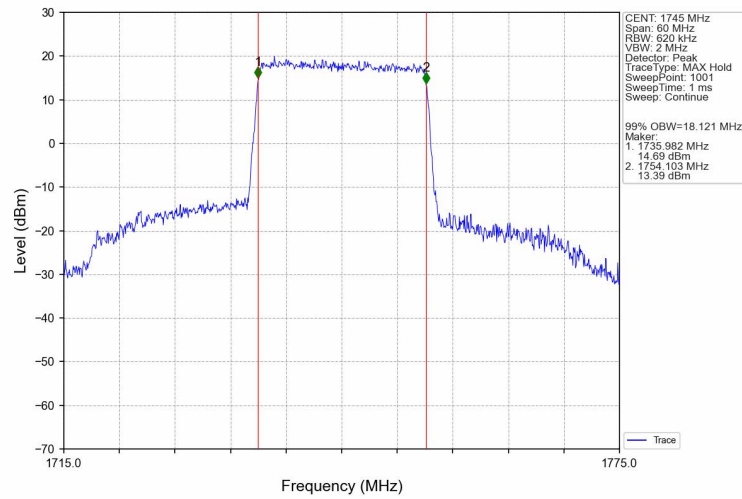
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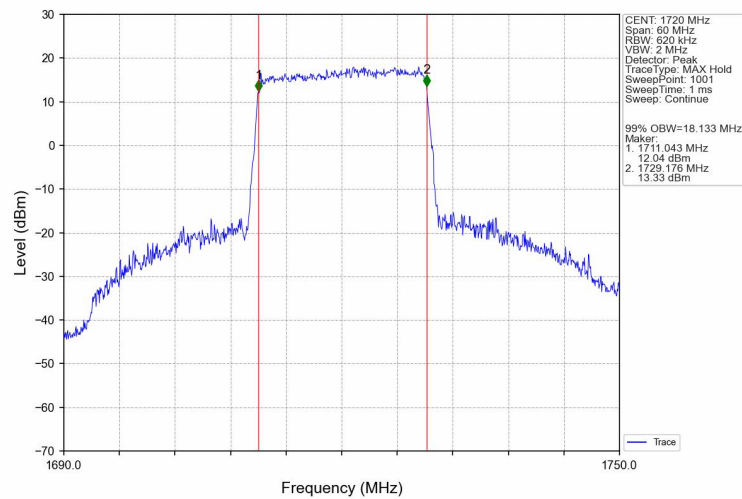
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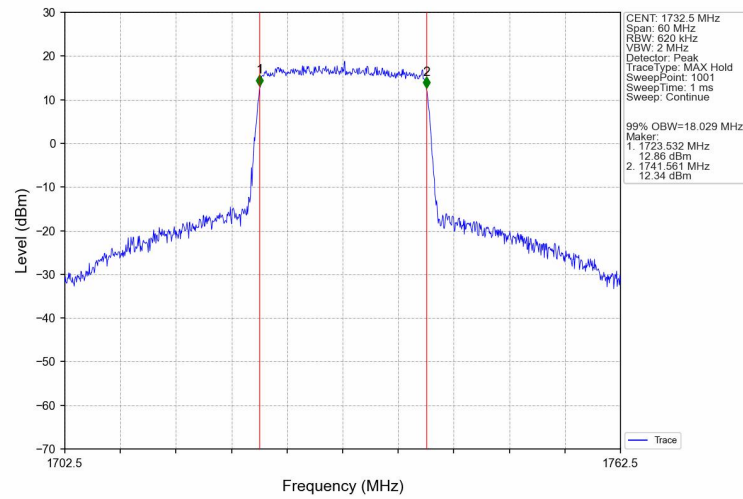
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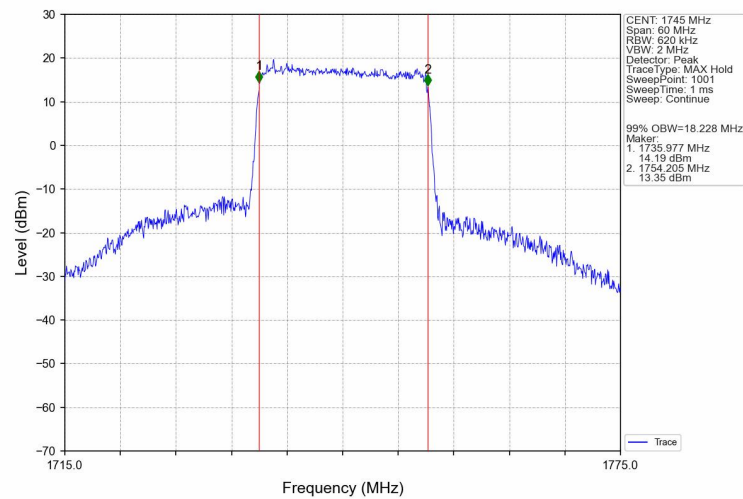
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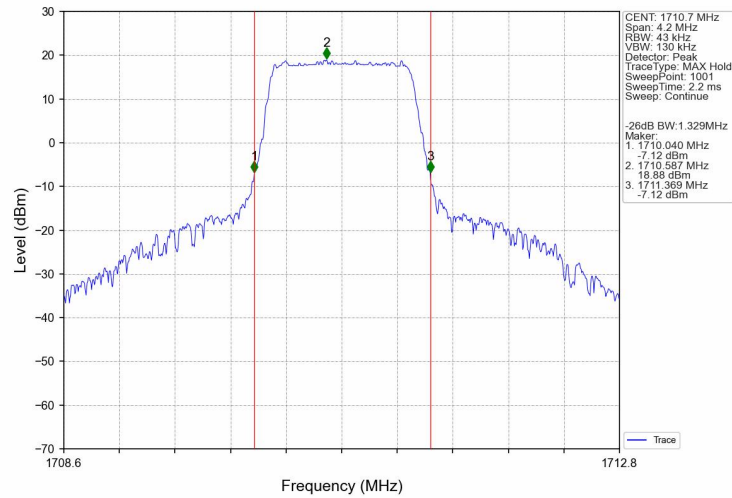


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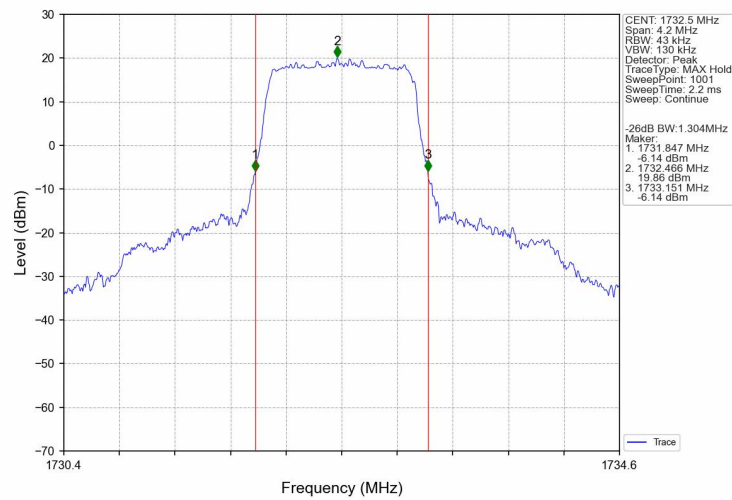


4.2.2 Band4_XDB

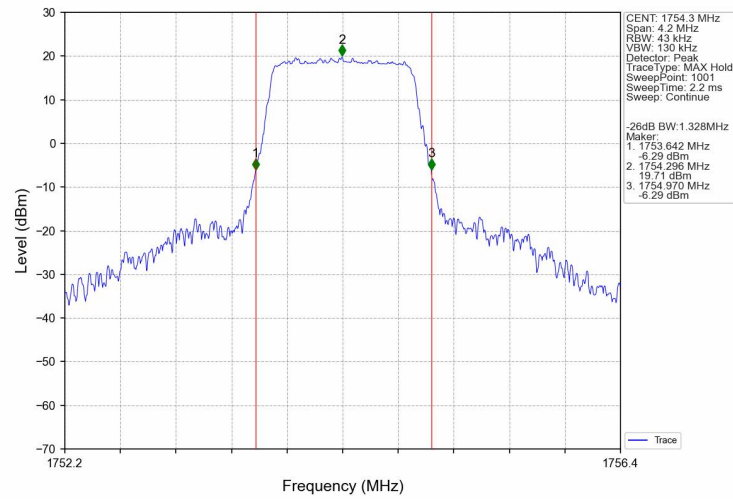
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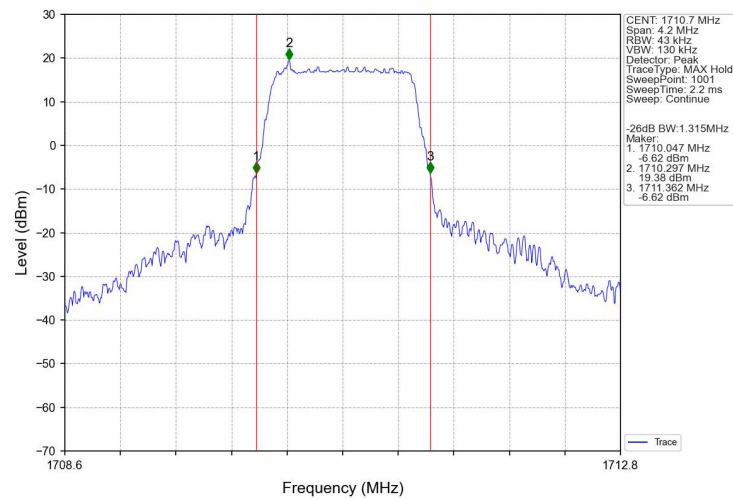
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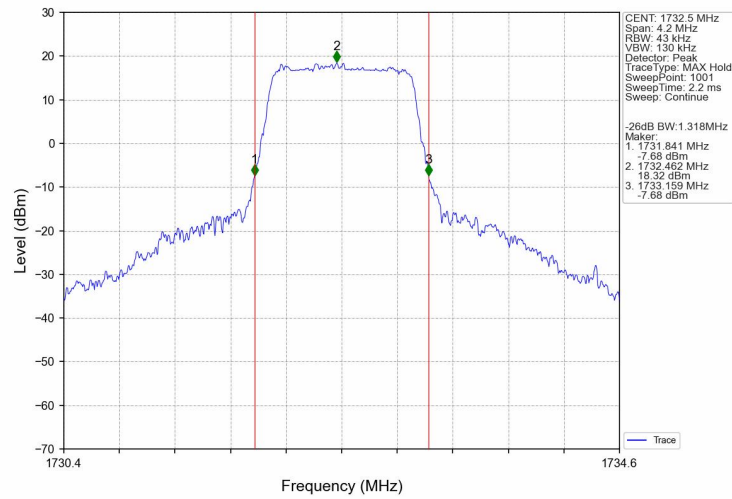
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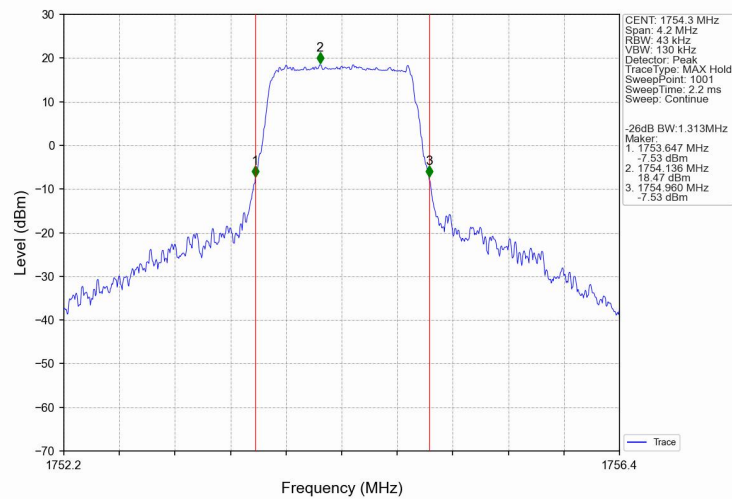
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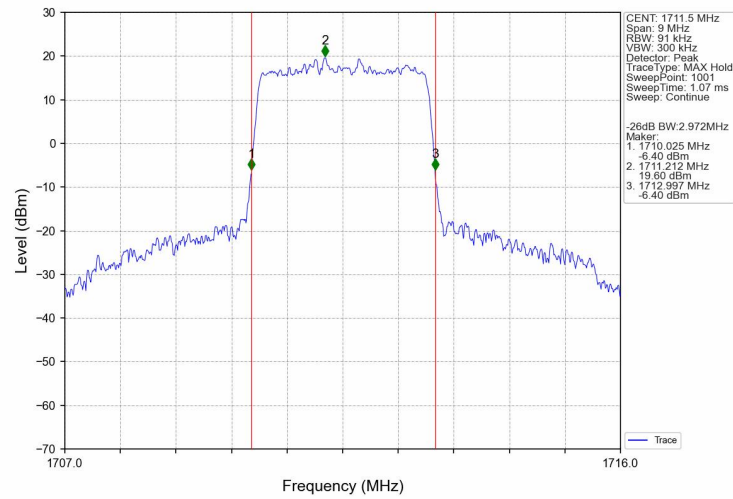
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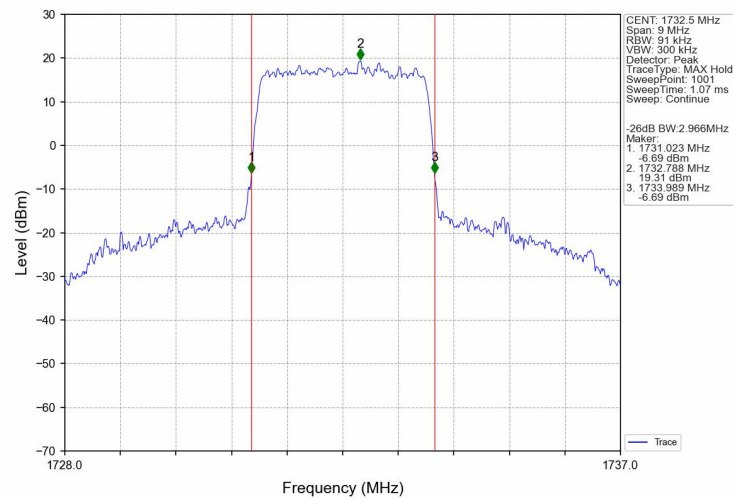
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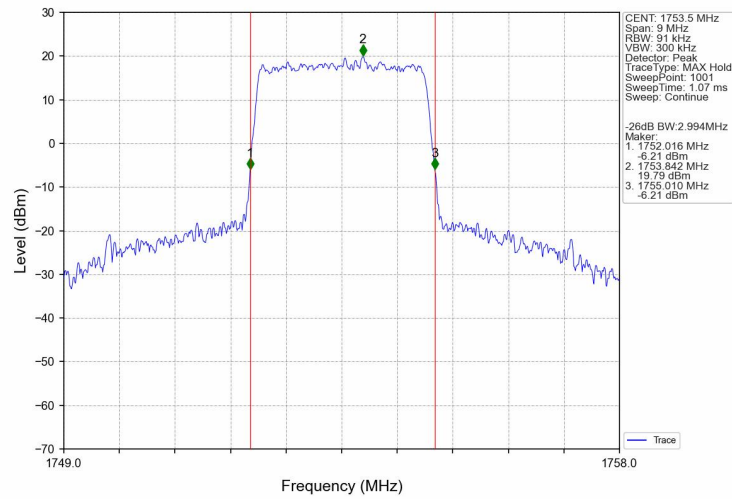
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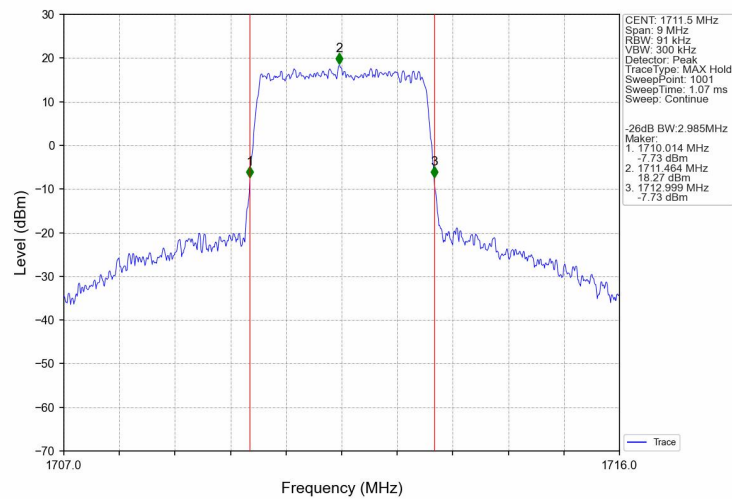
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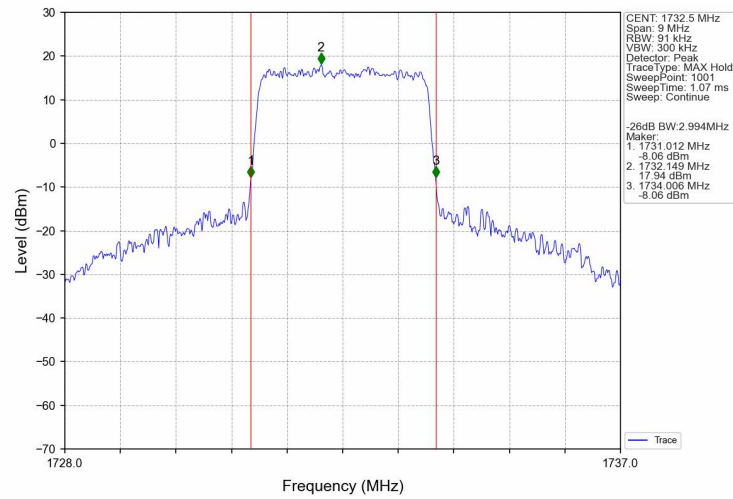
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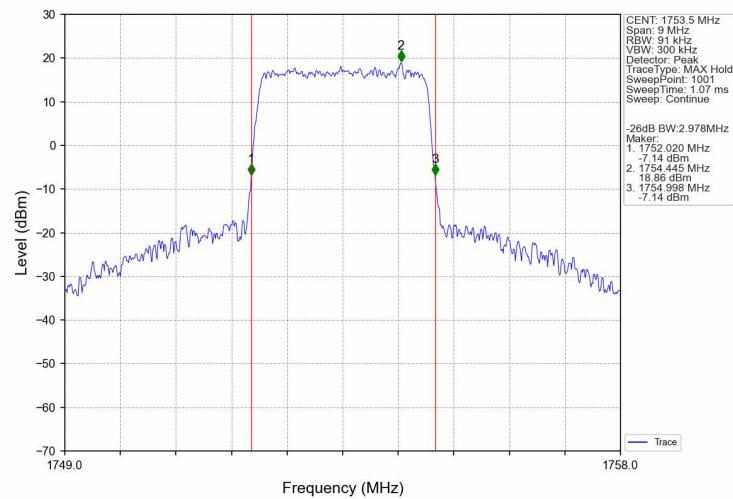
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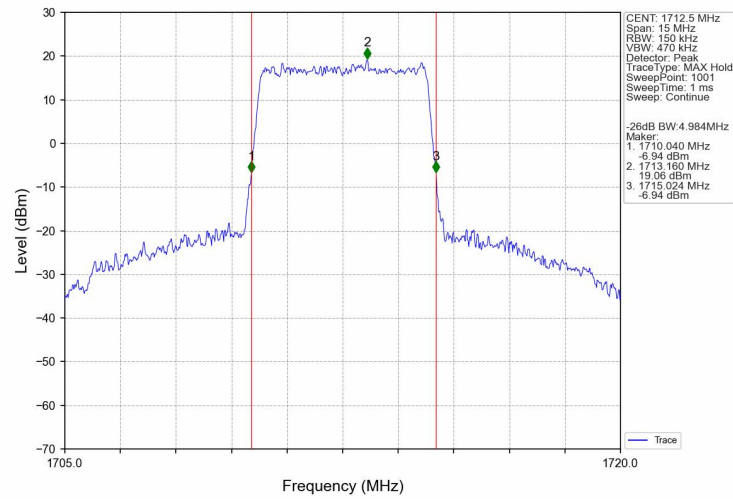
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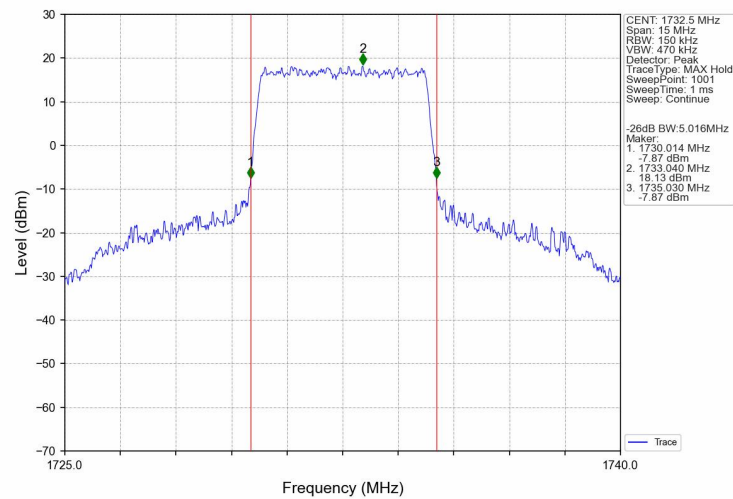
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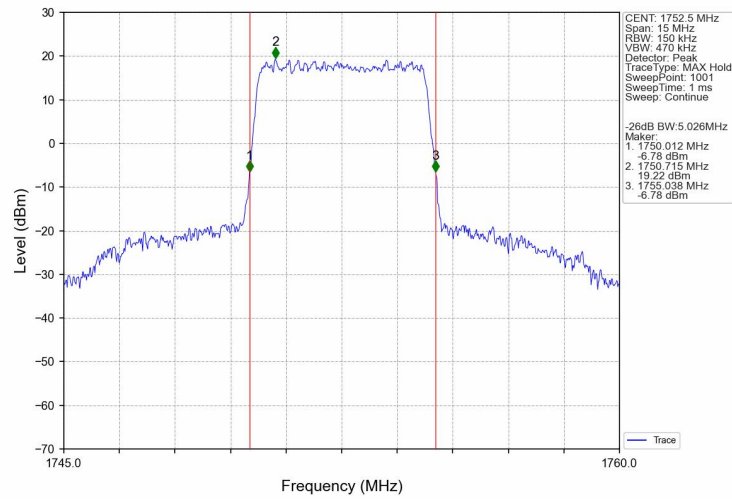
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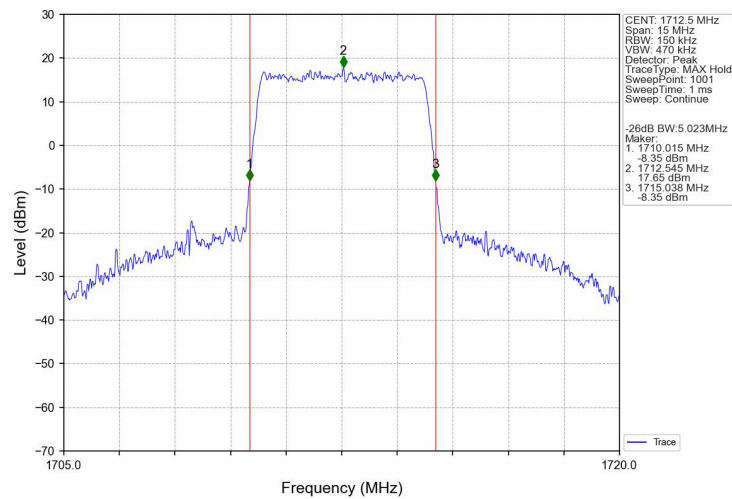
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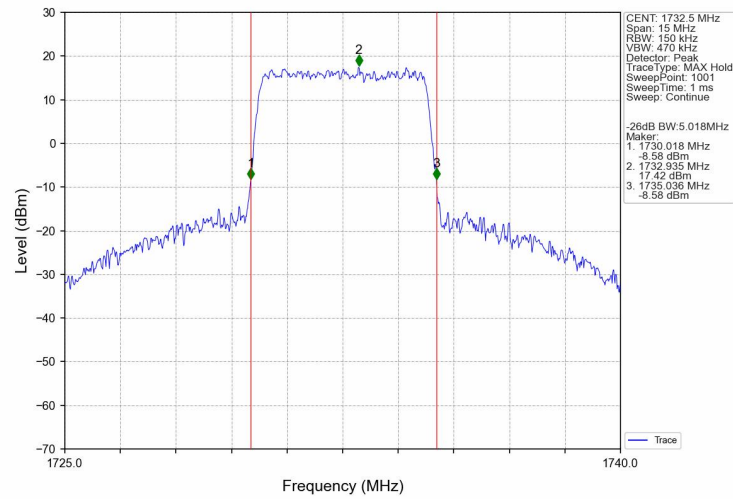
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV

