

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	22.54	0.10	22.64	<=30	Pass
			2	22.55	0.10	22.65	<=30	Pass
			5	22.45	0.10	22.55	<=30	Pass
		3	0	22.53	0.10	22.63	<=30	Pass
			2	22.56	0.10	22.66	<=30	Pass
			3	22.53	0.10	22.63	<=30	Pass
		6	0	21.52	0.10	21.62	<=30	Pass
	1732.5	1	0	22.22	0.10	22.32	<=30	Pass
			2	22.22	0.10	22.32	<=30	Pass
			5	22.15	0.10	22.25	<=30	Pass
		3	0	22.66	0.10	22.76	<=30	Pass
			2	22.65	0.10	22.75	<=30	Pass
			3	22.64	0.10	22.74	<=30	Pass
		6	0	21.64	0.10	21.74	<=30	Pass
	1754.3	1	0	21.83	0.10	21.93	<=30	Pass
			2	21.84	0.10	21.94	<=30	Pass
			5	21.82	0.10	21.92	<=30	Pass
		3	0	22.42	0.10	22.52	<=30	Pass
			2	22.39	0.10	22.49	<=30	Pass
			3	22.39	0.10	22.49	<=30	Pass
		6	0	21.37	0.10	21.47	<=30	Pass
16QAM	1710.7	1	0	21.37	0.10	21.47	<=30	Pass
			2	21.37	0.10	21.47	<=30	Pass
			5	21.36	0.10	21.46	<=30	Pass
		3	0	21.55	0.10	21.65	<=30	Pass
			2	21.54	0.10	21.64	<=30	Pass
			3	21.56	0.10	21.66	<=30	Pass
		6	0	20.52	0.10	20.62	<=30	Pass
	1732.5	1	0	21.12	0.10	21.22	<=30	Pass
			2	21.13	0.10	21.23	<=30	Pass
			5	21.09	0.10	21.19	<=30	Pass
		3	0	21.46	0.10	21.56	<=30	Pass
			2	21.43	0.10	21.53	<=30	Pass
			3	21.43	0.10	21.53	<=30	Pass
		6	0	20.62	0.10	20.72	<=30	Pass
	1754.3	1	0	20.94	0.10	21.04	<=30	Pass
			2	20.93	0.10	21.03	<=30	Pass
			5	20.92	0.10	21.02	<=30	Pass
		3	0	21.44	0.10	21.54	<=30	Pass
			2	21.40	0.10	21.50	<=30	Pass
			3	21.41	0.10	21.51	<=30	Pass
		6	0	20.42	0.10	20.52	<=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	22.03	0.10	22.13	<=30	Pass
			7	22.01	0.10	22.11	<=30	Pass
			14	21.99	0.10	22.09	<=30	Pass
		8	0	21.47	0.10	21.57	<=30	Pass
			4	21.47	0.10	21.57	<=30	Pass
			7	21.47	0.10	21.57	<=30	Pass
		15	0	21.48	0.10	21.58	<=30	Pass
	1732.5	1	0	22.19	0.10	22.29	<=30	Pass
			7	22.18	0.10	22.28	<=30	Pass
			14	22.19	0.10	22.29	<=30	Pass
		8	0	21.55	0.10	21.65	<=30	Pass
			4	21.55	0.10	21.65	<=30	Pass
			7	21.53	0.10	21.63	<=30	Pass
		15	0	21.57	0.10	21.67	<=30	Pass
	1753.5	1	0	21.82	0.10	21.92	<=30	Pass
			7	21.78	0.10	21.88	<=30	Pass
			14	21.79	0.10	21.89	<=30	Pass
		8	0	21.32	0.10	21.42	<=30	Pass
			4	21.29	0.10	21.39	<=30	Pass
			7	21.29	0.10	21.39	<=30	Pass
		15	0	21.32	0.10	21.42	<=30	Pass
16QAM	1711.5	1	0	21.33	0.10	21.43	<=30	Pass
			7	21.35	0.10	21.45	<=30	Pass
			14	21.38	0.10	21.48	<=30	Pass
		8	0	20.51	0.10	20.61	<=30	Pass
			4	20.53	0.10	20.63	<=30	Pass
			7	20.51	0.10	20.61	<=30	Pass
		15	0	20.53	0.10	20.63	<=30	Pass
	1732.5	1	0	21.05	0.10	21.15	<=30	Pass
			7	21.07	0.10	21.17	<=30	Pass
			14	21.05	0.10	21.15	<=30	Pass
		8	0	20.55	0.10	20.65	<=30	Pass
			4	20.48	0.10	20.58	<=30	Pass
			7	20.49	0.10	20.59	<=30	Pass
		15	0	20.59	0.10	20.69	<=30	Pass
	1753.5	1	0	20.88	0.10	20.98	<=30	Pass
			7	20.86	0.10	20.96	<=30	Pass
			14	20.82	0.10	20.92	<=30	Pass
		8	0	20.31	0.10	20.41	<=30	Pass
			4	20.29	0.10	20.39	<=30	Pass
			7	20.29	0.10	20.39	<=30	Pass
		15	0	20.24	0.10	20.34	<=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	22.07	0.10	22.17	<=30	Pass
			13	21.99	0.10	22.09	<=30	Pass
			24	22.06	0.10	22.16	<=30	Pass
		12	0	21.47	0.10	21.57	<=30	Pass
			6	21.50	0.10	21.60	<=30	Pass
			13	21.50	0.10	21.60	<=30	Pass
		25	0	21.51	0.10	21.61	<=30	Pass
	1732.5	1	0	22.11	0.10	22.21	<=30	Pass
			13	22.09	0.10	22.19	<=30	Pass
			24	22.13	0.10	22.23	<=30	Pass
		12	0	21.65	0.10	21.75	<=30	Pass
			6	21.60	0.10	21.70	<=30	Pass
			13	21.55	0.10	21.65	<=30	Pass
		25	0	21.62	0.10	21.72	<=30	Pass
	1752.5	1	0	21.97	0.10	22.07	<=30	Pass
			13	21.85	0.10	21.95	<=30	Pass
			24	21.91	0.10	22.01	<=30	Pass
		12	0	21.35	0.10	21.45	<=30	Pass
			6	21.35	0.10	21.45	<=30	Pass
			13	21.33	0.10	21.43	<=30	Pass
		25	0	21.36	0.10	21.46	<=30	Pass
16QAM	1712.5	1	0	20.98	0.10	21.08	<=30	Pass
			13	20.92	0.10	21.02	<=30	Pass
			24	21.01	0.10	21.11	<=30	Pass
		12	0	20.53	0.10	20.63	<=30	Pass
			6	20.52	0.10	20.62	<=30	Pass
			13	20.53	0.10	20.63	<=30	Pass
		25	0	20.60	0.10	20.70	<=30	Pass
	1732.5	1	0	21.56	0.10	21.66	<=30	Pass
			13	21.50	0.10	21.60	<=30	Pass
			24	21.54	0.10	21.64	<=30	Pass
		12	0	20.63	0.10	20.73	<=30	Pass
			6	20.58	0.10	20.68	<=30	Pass
			13	20.55	0.10	20.65	<=30	Pass
		25	0	20.59	0.10	20.69	<=30	Pass
	1752.5	1	0	21.08	0.10	21.18	<=30	Pass
			13	20.97	0.10	21.07	<=30	Pass
			24	21.04	0.10	21.14	<=30	Pass
		12	0	20.33	0.10	20.43	<=30	Pass
			6	20.34	0.10	20.44	<=30	Pass
			13	20.36	0.10	20.46	<=30	Pass
		25	0	20.33	0.10	20.43	<=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	22.07	0.10	22.17	<=30	Pass
			25	22.07	0.10	22.17	<=30	Pass
			49	22.11	0.10	22.21	<=30	Pass
		25	0	21.43	0.10	21.53	<=30	Pass
			13	21.51	0.10	21.61	<=30	Pass
			25	21.65	0.10	21.75	<=30	Pass
		50	0	21.56	0.10	21.66	<=30	Pass
	1732.5	1	0	22.23	0.10	22.33	<=30	Pass
			25	22.24	0.10	22.34	<=30	Pass
			49	22.22	0.10	22.32	<=30	Pass
		25	0	21.63	0.10	21.73	<=30	Pass
			13	21.63	0.10	21.73	<=30	Pass
			25	21.55	0.10	21.65	<=30	Pass
		50	0	21.59	0.10	21.69	<=30	Pass
	1750	1	0	21.88	0.10	21.98	<=30	Pass
			25	21.84	0.10	21.94	<=30	Pass
			49	21.78	0.10	21.88	<=30	Pass
		25	0	21.29	0.10	21.39	<=30	Pass
			13	21.32	0.10	21.42	<=30	Pass
			25	21.39	0.10	21.49	<=30	Pass
		50	0	21.40	0.10	21.50	<=30	Pass
16QAM	1715	1	0	21.41	0.10	21.51	<=30	Pass
			25	21.37	0.10	21.47	<=30	Pass
			49	21.49	0.10	21.59	<=30	Pass
		25	0	20.46	0.10	20.56	<=30	Pass
			13	20.52	0.10	20.62	<=30	Pass
			25	20.64	0.10	20.74	<=30	Pass
		50	0	20.54	0.10	20.64	<=30	Pass
	1732.5	1	0	21.10	0.10	21.20	<=30	Pass
			25	21.12	0.10	21.22	<=30	Pass
			49	21.11	0.10	21.21	<=30	Pass
		25	0	20.68	0.10	20.78	<=30	Pass
			13	20.66	0.10	20.76	<=30	Pass
			25	20.60	0.10	20.70	<=30	Pass
		50	0	20.59	0.10	20.69	<=30	Pass
	1750	1	0	20.93	0.10	21.03	<=30	Pass
			25	20.87	0.10	20.97	<=30	Pass
			49	20.89	0.10	20.99	<=30	Pass
		25	0	20.36	0.10	20.46	<=30	Pass
			13	20.35	0.10	20.45	<=30	Pass
			25	20.42	0.10	20.52	<=30	Pass
		50	0	20.36	0.10	20.46	<=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	21.95	0.10	22.05	<=30	Pass
			38	21.99	0.10	22.09	<=30	Pass
			74	22.02	0.10	22.12	<=30	Pass
		36	0	21.36	0.10	21.46	<=30	Pass
			18	21.45	0.10	21.55	<=30	Pass
			39	21.58	0.10	21.68	<=30	Pass
		75	0	21.52	0.10	21.62	<=30	Pass
	1732.5	1	0	22.11	0.10	22.21	<=30	Pass
			38	22.24	0.10	22.34	<=30	Pass
			74	22.09	0.10	22.19	<=30	Pass
		36	0	21.56	0.10	21.66	<=30	Pass
			18	21.52	0.10	21.62	<=30	Pass
			39	21.50	0.10	21.60	<=30	Pass
		75	0	21.54	0.10	21.64	<=30	Pass
	1747.5	1	0	21.87	0.10	21.97	<=30	Pass
			38	21.90	0.10	22.00	<=30	Pass
			74	21.71	0.10	21.81	<=30	Pass
		36	0	21.37	0.10	21.47	<=30	Pass
			18	21.37	0.10	21.47	<=30	Pass
			39	21.38	0.10	21.48	<=30	Pass
		75	0	21.41	0.10	21.51	<=30	Pass
16QAM	1717.5	1	0	20.92	0.10	21.02	<=30	Pass
			38	20.97	0.10	21.07	<=30	Pass
			74	21.01	0.10	21.11	<=30	Pass
		36	0	20.40	0.10	20.50	<=30	Pass
			18	20.45	0.10	20.55	<=30	Pass
			39	20.60	0.10	20.70	<=30	Pass
		75	0	20.52	0.10	20.62	<=30	Pass
	1732.5	1	0	21.01	0.10	21.11	<=30	Pass
			38	21.05	0.10	21.15	<=30	Pass
			74	20.97	0.10	21.07	<=30	Pass
		36	0	20.55	0.10	20.65	<=30	Pass
			18	20.54	0.10	20.64	<=30	Pass
			39	20.51	0.10	20.61	<=30	Pass
		75	0	20.55	0.10	20.65	<=30	Pass
	1747.5	1	0	20.96	0.10	21.06	<=30	Pass
			38	20.94	0.10	21.04	<=30	Pass
			74	20.79	0.10	20.89	<=30	Pass
		36	0	20.37	0.10	20.47	<=30	Pass
			18	20.33	0.10	20.43	<=30	Pass
			39	20.36	0.10	20.46	<=30	Pass
		75	0	20.40	0.10	20.50	<=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	21.96	0.10	22.06	<=30	Pass
			50	22.07	0.10	22.17	<=30	Pass
			99	22.09	0.10	22.19	<=30	Pass
		50	0	21.30	0.10	21.40	<=30	Pass
			25	21.57	0.10	21.67	<=30	Pass
			50	21.70	0.10	21.80	<=30	Pass
		100	0	21.55	0.10	21.65	<=30	Pass
			0	22.04	0.10	22.14	<=30	Pass
			50	22.12	0.10	22.22	<=30	Pass
	1732.5	1	0	21.96	0.10	22.06	<=30	Pass
			50	21.56	0.10	21.66	<=30	Pass
			99	21.61	0.10	21.71	<=30	Pass
		50	25	21.61	0.10	21.71	<=30	Pass
			50	21.55	0.10	21.65	<=30	Pass
			50	21.55	0.10	21.65	<=30	Pass
		100	0	21.50	0.10	21.60	<=30	Pass
			0	21.99	0.10	22.09	<=30	Pass
			50	21.99	0.10	22.09	<=30	Pass
	1745	1	99	21.76	0.10	21.86	<=30	Pass
			0	21.51	0.10	21.61	<=30	Pass
			25	21.46	0.10	21.56	<=30	Pass
		50	50	21.47	0.10	21.57	<=30	Pass
			0	21.49	0.10	21.59	<=30	Pass
			0	21.03	0.10	21.13	<=30	Pass
		50	50	21.08	0.10	21.18	<=30	Pass
			99	21.13	0.10	21.23	<=30	Pass
			0	20.26	0.10	20.36	<=30	Pass
16QAM	1720	1	25	20.52	0.10	20.62	<=30	Pass
			50	20.66	0.10	20.76	<=30	Pass
			0	20.51	0.10	20.61	<=30	Pass
		50	0	20.92	0.10	21.02	<=30	Pass
			50	21.02	0.10	21.12	<=30	Pass
			99	20.81	0.10	20.91	<=30	Pass
		100	0	20.50	0.10	20.60	<=30	Pass
			25	20.56	0.10	20.66	<=30	Pass
			50	20.50	0.10	20.60	<=30	Pass
	1732.5	1	0	20.51	0.10	20.61	<=30	Pass
			0	21.44	0.10	21.54	<=30	Pass
			50	21.41	0.10	21.51	<=30	Pass
		50	99	21.22	0.10	21.32	<=30	Pass
			0	20.49	0.10	20.59	<=30	Pass
			25	20.43	0.10	20.53	<=30	Pass
		100	50	20.45	0.10	20.55	<=30	Pass
			0	20.47	0.10	20.57	<=30	Pass
			0	20.47	0.10	20.57	<=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	3.29	-3.591	-0.0021	-2.5 to 2.5	Pass
					3.87	2.861	0.0017	-2.5 to 2.5	Pass
					4.45	-9.599	-0.0056	-2.5 to 2.5	Pass
				-30	3.87	2.203	0.0013	-2.5 to 2.5	Pass
				-20	3.87	3.119	0.0018	-2.5 to 2.5	Pass
				-10	3.87	5.836	0.0034	-2.5 to 2.5	Pass
				0	3.87	-5.264	-0.0031	-2.5 to 2.5	Pass
				10	3.87	5.350	0.0031	-2.5 to 2.5	Pass
				30	3.87	3.862	0.0023	-2.5 to 2.5	Pass
				40	3.87	3.090	0.0018	-2.5 to 2.5	Pass
				50	3.87	1.173	0.0007	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.29	7.825	0.0045	-2.5 to 2.5	Pass
					3.87	-1.273	-0.0007	-2.5 to 2.5	Pass
					4.45	5.164	0.0030	-2.5 to 2.5	Pass
				-30	3.87	0.587	0.0003	-2.5 to 2.5	Pass
				-20	3.87	-3.762	-0.0022	-2.5 to 2.5	Pass
				-10	3.87	5.064	0.0029	-2.5 to 2.5	Pass
				0	3.87	9.928	0.0057	-2.5 to 2.5	Pass
				10	3.87	10.371	0.0060	-2.5 to 2.5	Pass
				30	3.87	0.701	0.0004	-2.5 to 2.5	Pass
				40	3.87	11.330	0.0065	-2.5 to 2.5	Pass
				50	3.87	-1.974	-0.0011	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.29	4.048	0.0023	-2.5 to 2.5	Pass
					3.87	-3.963	-0.0023	-2.5 to 2.5	Pass
					4.45	1.831	0.0010	-2.5 to 2.5	Pass
				-30	3.87	-3.376	-0.0019	-2.5 to 2.5	Pass
				-20	3.87	-0.930	-0.0005	-2.5 to 2.5	Pass
				-10	3.87	1.473	0.0008	-2.5 to 2.5	Pass
				0	3.87	5.522	0.0031	-2.5 to 2.5	Pass
				10	3.87	0.687	0.0004	-2.5 to 2.5	Pass
				30	3.87	8.183	0.0047	-2.5 to 2.5	Pass
				40	3.87	3.734	0.0021	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.29	4.835	0.0028	-2.5 to 2.5	Pass
					3.87	1.044	0.0006	-2.5 to 2.5	Pass
					4.45	2.418	0.0014	-2.5 to 2.5	Pass
				-30	3.87	0.014	0.0000	-2.5 to 2.5	Pass
				-20	3.87	9.685	0.0057	-2.5 to 2.5	Pass
				-10	3.87	-4.935	-0.0029	-2.5 to 2.5	Pass
				0	3.87	7.596	0.0044	-2.5 to 2.5	Pass
				10	3.87	4.921	0.0029	-2.5 to 2.5	Pass
				30	3.87	10.886	0.0064	-2.5 to 2.5	Pass
				40	3.87	-2.546	-0.0015	-2.5 to 2.5	Pass
				50	3.87	-3.719	-0.0022	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.29	4.506	0.0026	-2.5 to 2.5	Pass
					3.87	9.499	0.0055	-2.5 to 2.5	Pass
					4.45	6.852	0.0040	-2.5 to 2.5	Pass
				-30	3.87	-3.991	-0.0023	-2.5 to 2.5	Pass
				-20	3.87	-2.303	-0.0013	-2.5 to 2.5	Pass
				-10	3.87	14.877	0.0086	-2.5 to 2.5	Pass

				0	3.87	0.701	0.0004	-2.5 to 2.5	Pass
				10	3.87	2.575	0.0015	-2.5 to 2.5	Pass
				30	3.87	0.143	0.0001	-2.5 to 2.5	Pass
				40	3.87	4.978	0.0029	-2.5 to 2.5	Pass
				50	3.87	1.760	0.0010	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.29	5.450	0.0031	-2.5 to 2.5	Pass
					3.87	4.864	0.0028	-2.5 to 2.5	Pass
					4.45	8.798	0.0050	-2.5 to 2.5	Pass
				-30	3.87	-0.715	-0.0004	-2.5 to 2.5	Pass
				-20	3.87	0.458	0.0003	-2.5 to 2.5	Pass
				-10	3.87	-3.176	-0.0018	-2.5 to 2.5	Pass
				0	3.87	9.871	0.0056	-2.5 to 2.5	Pass
				10	3.87	0.243	0.0001	-2.5 to 2.5	Pass
				30	3.87	13.275	0.0076	-2.5 to 2.5	Pass
				40	3.87	-1.674	-0.0010	-2.5 to 2.5	Pass
				50	3.87	4.306	0.0025	-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	3.29	-4.864	-0.0028	-2.5 to 2.5	Pass
					3.87	-0.944	-0.0006	-2.5 to 2.5	Pass
					4.45	3.476	0.0020	-2.5 to 2.5	Pass
				-30	3.87	-1.116	-0.0007	-2.5 to 2.5	Pass
				-20	3.87	5.507	0.0032	-2.5 to 2.5	Pass
				-10	3.87	1.359	0.0008	-2.5 to 2.5	Pass
				0	3.87	-1.202	-0.0007	-2.5 to 2.5	Pass
				10	3.87	-4.263	-0.0025	-2.5 to 2.5	Pass
				30	3.87	0.415	0.0002	-2.5 to 2.5	Pass
				40	3.87	-2.403	-0.0014	-2.5 to 2.5	Pass
				50	3.87	-2.146	-0.0013	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.29	-3.905	-0.0023	-2.5 to 2.5	Pass
					3.87	2.031	0.0012	-2.5 to 2.5	Pass
					4.45	9.441	0.0054	-2.5 to 2.5	Pass
				-30	3.87	-5.894	-0.0034	-2.5 to 2.5	Pass
				-20	3.87	0.973	0.0006	-2.5 to 2.5	Pass
				-10	3.87	-2.360	-0.0014	-2.5 to 2.5	Pass
				0	3.87	-2.232	-0.0013	-2.5 to 2.5	Pass
				10	3.87	-5.679	-0.0033	-2.5 to 2.5	Pass
				30	3.87	0.744	0.0004	-2.5 to 2.5	Pass
				40	3.87	3.061	0.0018	-2.5 to 2.5	Pass
				50	3.87	4.420	0.0026	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.29	-1.616	-0.0009	-2.5 to 2.5	Pass
					3.87	4.892	0.0028	-2.5 to 2.5	Pass
					4.45	8.311	0.0047	-2.5 to 2.5	Pass
				-30	3.87	-0.715	-0.0004	-2.5 to 2.5	Pass
				-20	3.87	1.073	0.0006	-2.5 to 2.5	Pass
				-10	3.87	6.323	0.0036	-2.5 to 2.5	Pass
				0	3.87	-3.090	-0.0018	-2.5 to 2.5	Pass
				10	3.87	0.887	0.0005	-2.5 to 2.5	Pass
				30	3.87	10.171	0.0058	-2.5 to 2.5	Pass
				40	3.87	9.942	0.0057	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.29	3.963	0.0023	-2.5 to 2.5	Pass
					3.87	-3.963	-0.0023	-2.5 to 2.5	Pass
					4.45	1.588	0.0009	-2.5 to 2.5	Pass
				-30	3.87	2.174	0.0013	-2.5 to 2.5	Pass
				-20	3.87	-5.536	-0.0032	-2.5 to 2.5	Pass
				-10	3.87	1.702	0.0010	-2.5 to 2.5	Pass
				0	3.87	0.129	0.0001	-2.5 to 2.5	Pass
				10	3.87	2.074	0.0012	-2.5 to 2.5	Pass
				30	3.87	-5.679	-0.0033	-2.5 to 2.5	Pass
				40	3.87	1.402	0.0008	-2.5 to 2.5	Pass
				50	3.87	4.177	0.0024	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.29	5.021	0.0029	-2.5 to 2.5	Pass
					3.87	0.014	0.0000	-2.5 to 2.5	Pass
					4.45	0.086	0.0000	-2.5 to 2.5	Pass
				-30	3.87	3.819	0.0022	-2.5 to 2.5	Pass
				-20	3.87	-0.358	-0.0002	-2.5 to 2.5	Pass
				-10	3.87	5.679	0.0033	-2.5 to 2.5	Pass
				0	3.87	6.208	0.0036	-2.5 to 2.5	Pass
				10	3.87	-0.644	-0.0004	-2.5 to 2.5	Pass
				30	3.87	10.428	0.0060	-2.5 to 2.5	Pass
				40	3.87	0.815	0.0005	-2.5 to 2.5	Pass
				50	3.87	-1.130	-0.0007	-2.5 to 2.5	Pass

	1753.5	15	0	20	3.29	12.975	0.0074	-2.5 to 2.5	Pass
					3.87	-1.817	-0.0010	-2.5 to 2.5	Pass
					4.45	-1.559	-0.0009	-2.5 to 2.5	Pass
				-30	3.87	2.103	0.0012	-2.5 to 2.5	Pass
				-20	3.87	-1.116	-0.0006	-2.5 to 2.5	Pass
				-10	3.87	-1.903	-0.0011	-2.5 to 2.5	Pass
				0	3.87	14.434	0.0082	-2.5 to 2.5	Pass
				10	3.87	6.952	0.0040	-2.5 to 2.5	Pass
				30	3.87	8.154	0.0047	-2.5 to 2.5	Pass
				40	3.87	6.909	0.0039	-2.5 to 2.5	Pass
				50	3.87	-1.445	-0.0008	-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	3.29	0.114	0.0001	-2.5 to 2.5	Pass
					3.87	-6.609	-0.0039	-2.5 to 2.5	Pass
					4.45	-3.133	-0.0018	-2.5 to 2.5	Pass
				-30	3.87	4.807	0.0028	-2.5 to 2.5	Pass
				-20	3.87	-0.958	-0.0006	-2.5 to 2.5	Pass
				-10	3.87	0.916	0.0005	-2.5 to 2.5	Pass
				0	3.87	-6.566	-0.0038	-2.5 to 2.5	Pass
				10	3.87	-0.286	-0.0002	-2.5 to 2.5	Pass
				30	3.87	4.349	0.0025	-2.5 to 2.5	Pass
				40	3.87	2.732	0.0016	-2.5 to 2.5	Pass
				50	3.87	0.501	0.0003	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.29	0.701	0.0004	-2.5 to 2.5	Pass
					3.87	2.718	0.0016	-2.5 to 2.5	Pass
					4.45	2.933	0.0017	-2.5 to 2.5	Pass
				-30	3.87	0.100	0.0001	-2.5 to 2.5	Pass
				-20	3.87	4.377	0.0025	-2.5 to 2.5	Pass
				-10	3.87	3.591	0.0021	-2.5 to 2.5	Pass
				0	3.87	5.693	0.0033	-2.5 to 2.5	Pass
				10	3.87	-1.860	-0.0011	-2.5 to 2.5	Pass
				30	3.87	-0.257	-0.0001	-2.5 to 2.5	Pass
				40	3.87	2.060	0.0012	-2.5 to 2.5	Pass
				50	3.87	-0.572	-0.0003	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.29	0.658	0.0004	-2.5 to 2.5	Pass
					3.87	4.835	0.0028	-2.5 to 2.5	Pass
					4.45	1.202	0.0007	-2.5 to 2.5	Pass
				-30	3.87	-1.187	-0.0007	-2.5 to 2.5	Pass
				-20	3.87	-2.117	-0.0012	-2.5 to 2.5	Pass
				-10	3.87	2.890	0.0016	-2.5 to 2.5	Pass
				0	3.87	3.877	0.0022	-2.5 to 2.5	Pass
				10	3.87	6.337	0.0036	-2.5 to 2.5	Pass
				30	3.87	0.472	0.0003	-2.5 to 2.5	Pass
				40	3.87	6.423	0.0037	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.29	0.215	0.0001	-2.5 to 2.5	Pass
					3.87	3.347	0.0020	-2.5 to 2.5	Pass
					4.45	-0.730	-0.0004	-2.5 to 2.5	Pass
				-30	3.87	-1.388	-0.0008	-2.5 to 2.5	Pass
				-20	3.87	-0.615	-0.0004	-2.5 to 2.5	Pass
				-10	3.87	3.662	0.0021	-2.5 to 2.5	Pass
				0	3.87	4.206	0.0025	-2.5 to 2.5	Pass
				10	3.87	-0.544	-0.0003	-2.5 to 2.5	Pass
				30	3.87	5.422	0.0032	-2.5 to 2.5	Pass
				40	3.87	6.824	0.0040	-2.5 to 2.5	Pass
				50	3.87	-0.143	-0.0001	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.29	3.419	0.0020	-2.5 to 2.5	Pass
					3.87	1.431	0.0008	-2.5 to 2.5	Pass
					4.45	1.888	0.0011	-2.5 to 2.5	Pass
				-30	3.87	1.659	0.0010	-2.5 to 2.5	Pass
				-20	3.87	1.760	0.0010	-2.5 to 2.5	Pass
				-10	3.87	0.000	0.0000	-2.5 to 2.5	Pass
				0	3.87	1.173	0.0007	-2.5 to 2.5	Pass
				10	3.87	4.821	0.0028	-2.5 to 2.5	Pass
				30	3.87	-3.304	-0.0019	-2.5 to 2.5	Pass
				40	3.87	3.591	0.0021	-2.5 to 2.5	Pass
				50	3.87	8.783	0.0051	-2.5 to 2.5	Pass

	1752.5	25	0	20	3.29	1.116	0.0006	-2.5 to 2.5	Pass
					3.87	6.337	0.0036	-2.5 to 2.5	Pass
					4.45	-4.277	-0.0024	-2.5 to 2.5	Pass
				-30	3.87	3.347	0.0019	-2.5 to 2.5	Pass
				-20	3.87	3.119	0.0018	-2.5 to 2.5	Pass
				-10	3.87	3.190	0.0018	-2.5 to 2.5	Pass
				0	3.87	2.446	0.0014	-2.5 to 2.5	Pass
				10	3.87	2.990	0.0017	-2.5 to 2.5	Pass
				30	3.87	1.917	0.0011	-2.5 to 2.5	Pass
				40	3.87	1.216	0.0007	-2.5 to 2.5	Pass
				50	3.87	2.217	0.0013	-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	3.29	1.473	0.0009	-2.5 to 2.5	Pass
					3.87	4.363	0.0025	-2.5 to 2.5	Pass
					4.45	3.662	0.0021	-2.5 to 2.5	Pass
				-30	3.87	2.689	0.0016	-2.5 to 2.5	Pass
				-20	3.87	1.731	0.0010	-2.5 to 2.5	Pass
				-10	3.87	2.532	0.0015	-2.5 to 2.5	Pass
				0	3.87	1.373	0.0008	-2.5 to 2.5	Pass
				10	3.87	4.549	0.0027	-2.5 to 2.5	Pass
				30	3.87	1.745	0.0010	-2.5 to 2.5	Pass
				40	3.87	2.704	0.0016	-2.5 to 2.5	Pass
				50	3.87	4.349	0.0025	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.29	3.533	0.0020	-2.5 to 2.5	Pass
					3.87	4.420	0.0026	-2.5 to 2.5	Pass
					4.45	2.661	0.0015	-2.5 to 2.5	Pass
				-30	3.87	5.050	0.0029	-2.5 to 2.5	Pass
				-20	3.87	3.033	0.0018	-2.5 to 2.5	Pass
				-10	3.87	1.845	0.0011	-2.5 to 2.5	Pass
				0	3.87	3.977	0.0023	-2.5 to 2.5	Pass
				10	3.87	5.136	0.0030	-2.5 to 2.5	Pass
				30	3.87	-0.343	-0.0002	-2.5 to 2.5	Pass
				40	3.87	-3.505	-0.0020	-2.5 to 2.5	Pass
				50	3.87	4.749	0.0027	-2.5 to 2.5	Pass
	1750	50	0	20	3.29	2.718	0.0016	-2.5 to 2.5	Pass
					3.87	3.633	0.0021	-2.5 to 2.5	Pass
					4.45	5.436	0.0031	-2.5 to 2.5	Pass
				-30	3.87	6.351	0.0036	-2.5 to 2.5	Pass
				-20	3.87	0.916	0.0005	-2.5 to 2.5	Pass
				-10	3.87	3.190	0.0018	-2.5 to 2.5	Pass
				0	3.87	1.945	0.0011	-2.5 to 2.5	Pass
				10	3.87	4.263	0.0024	-2.5 to 2.5	Pass
				30	3.87	7.210	0.0041	-2.5 to 2.5	Pass
				40	3.87	2.718	0.0016	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.29	0.715	0.0004	-2.5 to 2.5	Pass
					3.87	2.890	0.0017	-2.5 to 2.5	Pass
					4.45	3.119	0.0018	-2.5 to 2.5	Pass
				-30	3.87	4.435	0.0026	-2.5 to 2.5	Pass
				-20	3.87	1.945	0.0011	-2.5 to 2.5	Pass
				-10	3.87	3.004	0.0018	-2.5 to 2.5	Pass
				0	3.87	-1.030	-0.0006	-2.5 to 2.5	Pass
				10	3.87	-0.343	-0.0002	-2.5 to 2.5	Pass
				30	3.87	3.104	0.0018	-2.5 to 2.5	Pass
				40	3.87	2.646	0.0015	-2.5 to 2.5	Pass
				50	3.87	0.615	0.0004	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.29	3.104	0.0018	-2.5 to 2.5	Pass
					3.87	1.445	0.0008	-2.5 to 2.5	Pass
					4.45	-0.873	-0.0005	-2.5 to 2.5	Pass
				-30	3.87	3.462	0.0020	-2.5 to 2.5	Pass
				-20	3.87	3.190	0.0018	-2.5 to 2.5	Pass
				-10	3.87	6.223	0.0036	-2.5 to 2.5	Pass
				0	3.87	0.372	0.0002	-2.5 to 2.5	Pass
				10	3.87	7.296	0.0042	-2.5 to 2.5	Pass
				30	3.87	5.937	0.0034	-2.5 to 2.5	Pass
				40	3.87	1.845	0.0011	-2.5 to 2.5	Pass
				50	3.87	2.418	0.0014	-2.5 to 2.5	Pass

	1750	50	0	20	3.29	2.003	0.0011	-2.5 to 2.5	Pass
					3.87	7.367	0.0042	-2.5 to 2.5	Pass
					4.45	4.163	0.0024	-2.5 to 2.5	Pass
				-30	3.87	5.679	0.0032	-2.5 to 2.5	Pass
				-20	3.87	2.761	0.0016	-2.5 to 2.5	Pass
				-10	3.87	3.147	0.0018	-2.5 to 2.5	Pass
				0	3.87	2.804	0.0016	-2.5 to 2.5	Pass
				10	3.87	3.405	0.0019	-2.5 to 2.5	Pass
				30	3.87	4.349	0.0025	-2.5 to 2.5	Pass
				40	3.87	4.406	0.0025	-2.5 to 2.5	Pass
				50	3.87	6.065	0.0035	-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	3.29	1.888	0.0011	-2.5 to 2.5	Pass
					3.87	5.150	0.0030	-2.5 to 2.5	Pass
					4.45	4.020	0.0023	-2.5 to 2.5	Pass
				-30	3.87	0.100	0.0001	-2.5 to 2.5	Pass
				-20	3.87	4.063	0.0024	-2.5 to 2.5	Pass
				-10	3.87	5.150	0.0030	-2.5 to 2.5	Pass
				0	3.87	-0.129	-0.0001	-2.5 to 2.5	Pass
				10	3.87	-0.315	-0.0002	-2.5 to 2.5	Pass
				30	3.87	2.489	0.0014	-2.5 to 2.5	Pass
				40	3.87	5.207	0.0030	-2.5 to 2.5	Pass
				50	3.87	5.651	0.0033	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.29	2.117	0.0012	-2.5 to 2.5	Pass
					3.87	-1.330	-0.0008	-2.5 to 2.5	Pass
					4.45	1.402	0.0008	-2.5 to 2.5	Pass
				-30	3.87	1.502	0.0009	-2.5 to 2.5	Pass
				-20	3.87	0.443	0.0003	-2.5 to 2.5	Pass
				-10	3.87	0.501	0.0003	-2.5 to 2.5	Pass
				0	3.87	2.718	0.0016	-2.5 to 2.5	Pass
				10	3.87	-0.372	-0.0002	-2.5 to 2.5	Pass
				30	3.87	-1.216	-0.0007	-2.5 to 2.5	Pass
				40	3.87	0.086	0.0000	-2.5 to 2.5	Pass
				50	3.87	0.529	0.0003	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.29	6.537	0.0037	-2.5 to 2.5	Pass
					3.87	4.849	0.0028	-2.5 to 2.5	Pass
					4.45	2.861	0.0016	-2.5 to 2.5	Pass
				-30	3.87	5.221	0.0030	-2.5 to 2.5	Pass
				-20	3.87	3.576	0.0020	-2.5 to 2.5	Pass
				-10	3.87	2.904	0.0017	-2.5 to 2.5	Pass
				0	3.87	3.777	0.0022	-2.5 to 2.5	Pass
				10	3.87	3.705	0.0021	-2.5 to 2.5	Pass
				30	3.87	4.206	0.0024	-2.5 to 2.5	Pass
				40	3.87	2.990	0.0017	-2.5 to 2.5	Pass
				50	3.87	1.631	0.0009	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.29	5.393	0.0031	-2.5 to 2.5	Pass
					3.87	4.921	0.0029	-2.5 to 2.5	Pass
					4.45	5.622	0.0033	-2.5 to 2.5	Pass
				-30	3.87	5.221	0.0030	-2.5 to 2.5	Pass
				-20	3.87	7.567	0.0044	-2.5 to 2.5	Pass
				-10	3.87	1.287	0.0007	-2.5 to 2.5	Pass
				0	3.87	5.307	0.0031	-2.5 to 2.5	Pass
				10	3.87	2.360	0.0014	-2.5 to 2.5	Pass
				30	3.87	2.303	0.0013	-2.5 to 2.5	Pass
				40	3.87	5.393	0.0031	-2.5 to 2.5	Pass
				50	3.87	4.864	0.0028	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.29	0.300	0.0002	-2.5 to 2.5	Pass
					3.87	2.704	0.0016	-2.5 to 2.5	Pass
					4.45	-0.901	-0.0005	-2.5 to 2.5	Pass
				-30	3.87	3.633	0.0021	-2.5 to 2.5	Pass
				-20	3.87	2.689	0.0016	-2.5 to 2.5	Pass
				-10	3.87	-0.186	-0.0001	-2.5 to 2.5	Pass
				0	3.87	1.545	0.0009	-2.5 to 2.5	Pass
				10	3.87	1.388	0.0008	-2.5 to 2.5	Pass
				30	3.87	2.232	0.0013	-2.5 to 2.5	Pass
				40	3.87	2.675	0.0015	-2.5 to 2.5	Pass
				50	3.87	1.073	0.0006	-2.5 to 2.5	Pass

	1747.5	75	0	20	3.29	3.448	0.0020	-2.5 to 2.5	Pass
					3.87	6.266	0.0036	-2.5 to 2.5	Pass
					4.45	5.264	0.0030	-2.5 to 2.5	Pass
				-30	3.87	3.290	0.0019	-2.5 to 2.5	Pass
				-20	3.87	2.389	0.0014	-2.5 to 2.5	Pass
				-10	3.87	2.089	0.0012	-2.5 to 2.5	Pass
				0	3.87	1.917	0.0011	-2.5 to 2.5	Pass
				10	3.87	2.546	0.0015	-2.5 to 2.5	Pass
				30	3.87	1.717	0.0010	-2.5 to 2.5	Pass
				40	3.87	4.506	0.0026	-2.5 to 2.5	Pass
				50	3.87	2.918	0.0017	-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	3.29	1.230	0.0007	-2.5 to 2.5	Pass
					3.87	-0.057	0.0000	-2.5 to 2.5	Pass
					4.45	0.329	0.0002	-2.5 to 2.5	Pass
				-30	3.87	-2.604	-0.0015	-2.5 to 2.5	Pass
				-20	3.87	-1.173	-0.0007	-2.5 to 2.5	Pass
				-10	3.87	0.544	0.0003	-2.5 to 2.5	Pass
				0	3.87	0.386	0.0002	-2.5 to 2.5	Pass
				10	3.87	-2.575	-0.0015	-2.5 to 2.5	Pass
				30	3.87	-0.815	-0.0005	-2.5 to 2.5	Pass
				40	3.87	3.662	0.0021	-2.5 to 2.5	Pass
				50	3.87	6.166	0.0036	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.29	-1.173	-0.0007	-2.5 to 2.5	Pass
					3.87	1.802	0.0010	-2.5 to 2.5	Pass
					4.45	-0.930	-0.0005	-2.5 to 2.5	Pass
				-30	3.87	0.401	0.0002	-2.5 to 2.5	Pass
				-20	3.87	0.687	0.0004	-2.5 to 2.5	Pass
				-10	3.87	2.632	0.0015	-2.5 to 2.5	Pass
				0	3.87	3.734	0.0022	-2.5 to 2.5	Pass
				10	3.87	1.531	0.0009	-2.5 to 2.5	Pass
				30	3.87	1.345	0.0008	-2.5 to 2.5	Pass
				40	3.87	1.602	0.0009	-2.5 to 2.5	Pass
				50	3.87	3.562	0.0021	-2.5 to 2.5	Pass
	1745	100	0	20	3.29	6.366	0.0036	-2.5 to 2.5	Pass
					3.87	3.319	0.0019	-2.5 to 2.5	Pass
					4.45	3.104	0.0018	-2.5 to 2.5	Pass
				-30	3.87	0.300	0.0002	-2.5 to 2.5	Pass
				-20	3.87	-0.329	-0.0002	-2.5 to 2.5	Pass
				-10	3.87	-1.402	-0.0008	-2.5 to 2.5	Pass
				0	3.87	3.161	0.0018	-2.5 to 2.5	Pass
				10	3.87	2.232	0.0013	-2.5 to 2.5	Pass
				30	3.87	0.315	0.0002	-2.5 to 2.5	Pass
				40	3.87	2.875	0.0016	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.29	4.492	0.0026	-2.5 to 2.5	Pass
					3.87	5.980	0.0035	-2.5 to 2.5	Pass
					4.45	2.475	0.0014	-2.5 to 2.5	Pass
				-30	3.87	4.992	0.0029	-2.5 to 2.5	Pass
				-20	3.87	4.292	0.0025	-2.5 to 2.5	Pass
				-10	3.87	-0.129	-0.0001	-2.5 to 2.5	Pass
				0	3.87	0.014	0.0000	-2.5 to 2.5	Pass
				10	3.87	0.472	0.0003	-2.5 to 2.5	Pass
				30	3.87	-0.358	-0.0002	-2.5 to 2.5	Pass
				40	3.87	-2.060	-0.0012	-2.5 to 2.5	Pass
				50	3.87	0.186	0.0001	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.29	-0.830	-0.0005	-2.5 to 2.5	Pass
					3.87	-0.501	-0.0003	-2.5 to 2.5	Pass
					4.45	3.161	0.0018	-2.5 to 2.5	Pass
				-30	3.87	3.176	0.0018	-2.5 to 2.5	Pass
				-20	3.87	4.764	0.0027	-2.5 to 2.5	Pass
				-10	3.87	-4.263	-0.0025	-2.5 to 2.5	Pass
				0	3.87	2.403	0.0014	-2.5 to 2.5	Pass
				10	3.87	2.189	0.0013	-2.5 to 2.5	Pass
				30	3.87	2.761	0.0016	-2.5 to 2.5	Pass
				40	3.87	0.172	0.0001	-2.5 to 2.5	Pass
				50	3.87	0.057	0.0000	-2.5 to 2.5	Pass

	1745	100	0	20	3.29	5.779	0.0033	-2.5 to 2.5	Pass
					3.87	5.193	0.0030	-2.5 to 2.5	Pass
					4.45	5.994	0.0034	-2.5 to 2.5	Pass
				-30	3.87	1.402	0.0008	-2.5 to 2.5	Pass
				-20	3.87	4.249	0.0024	-2.5 to 2.5	Pass
				-10	3.87	2.933	0.0017	-2.5 to 2.5	Pass
				0	3.87	4.106	0.0024	-2.5 to 2.5	Pass
				10	3.87	2.604	0.0015	-2.5 to 2.5	Pass
				30	3.87	2.131	0.0012	-2.5 to 2.5	Pass
				40	3.87	3.119	0.0018	-2.5 to 2.5	Pass
				50	3.87	4.020	0.0023	-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

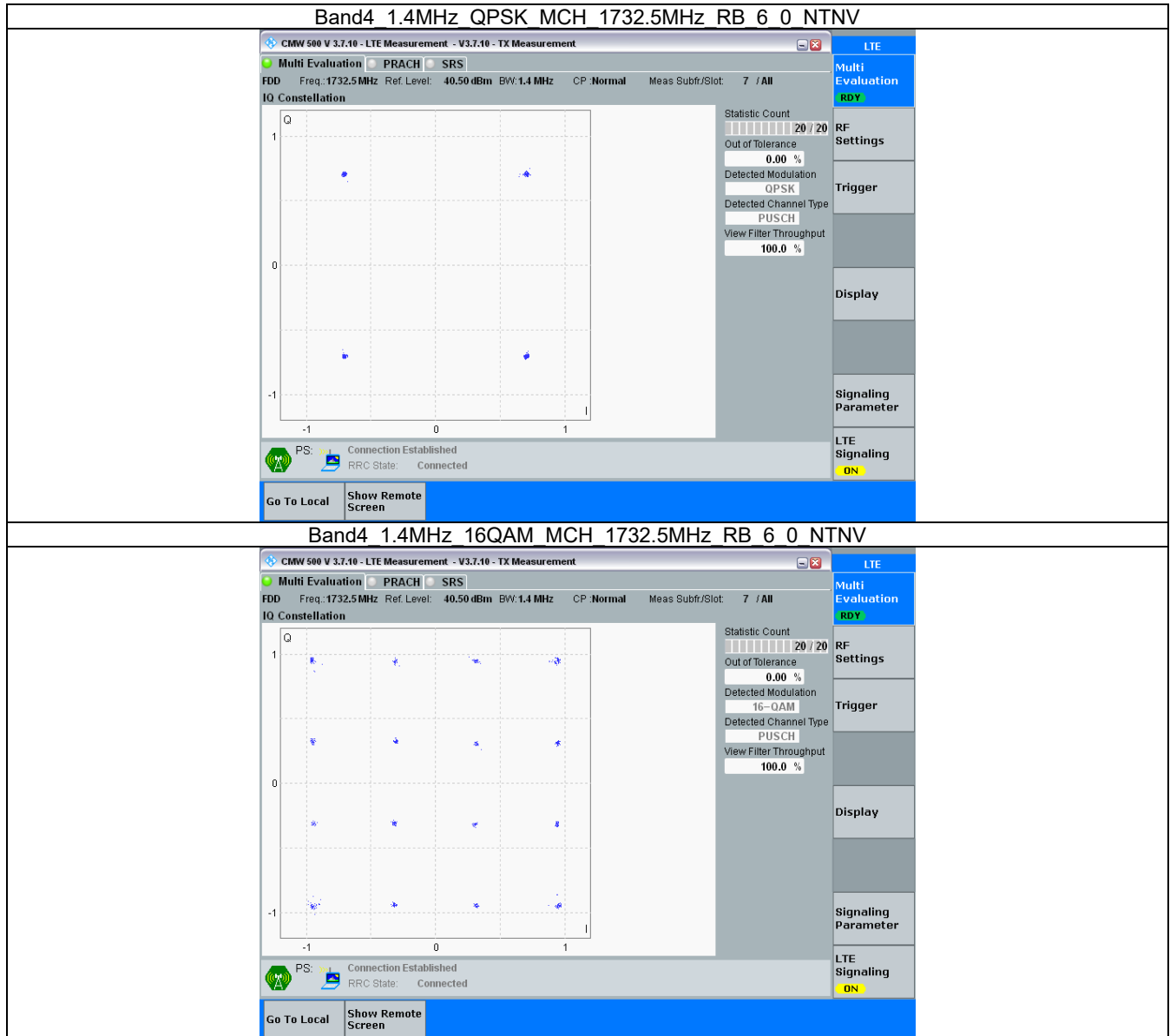
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

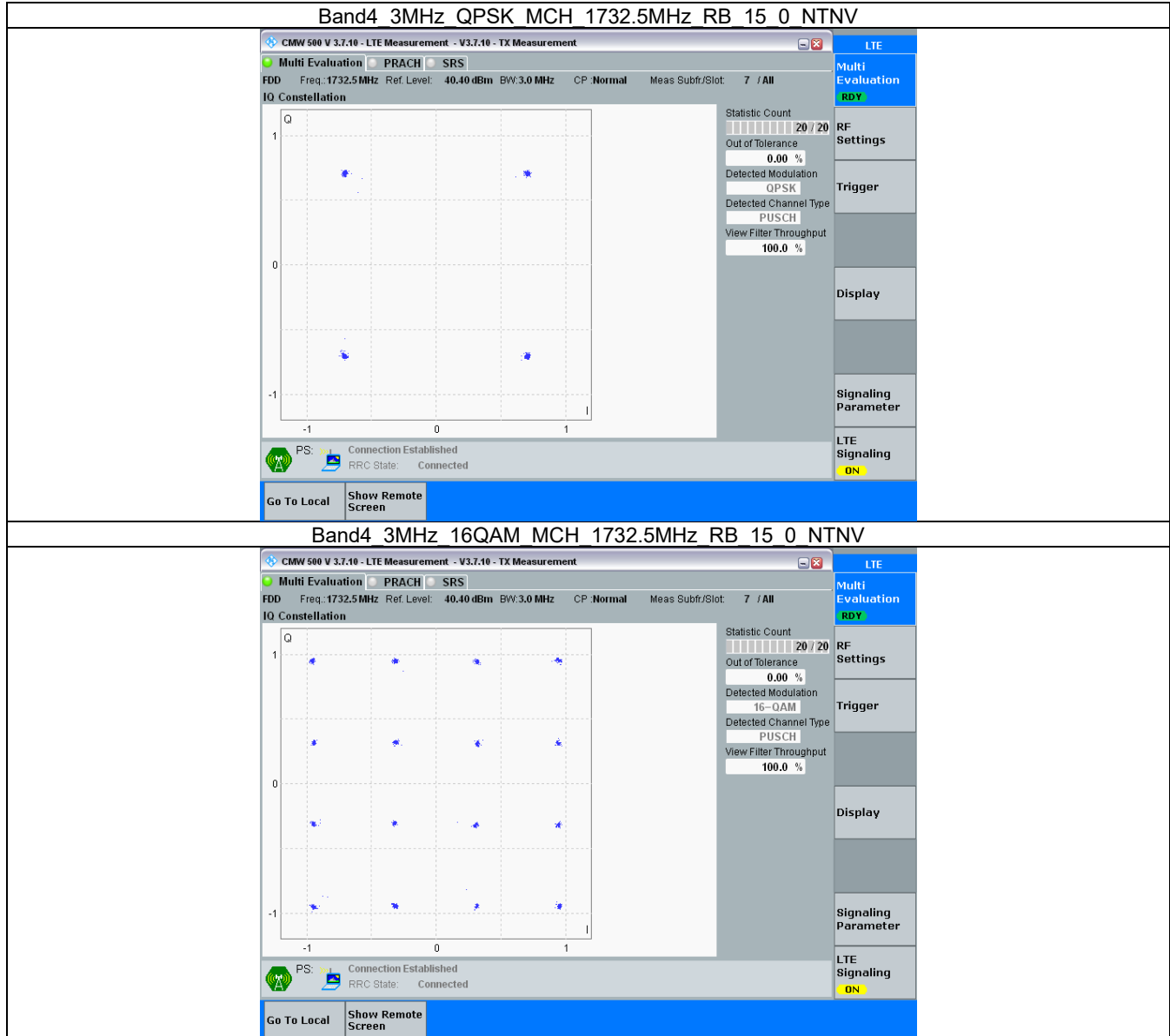
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

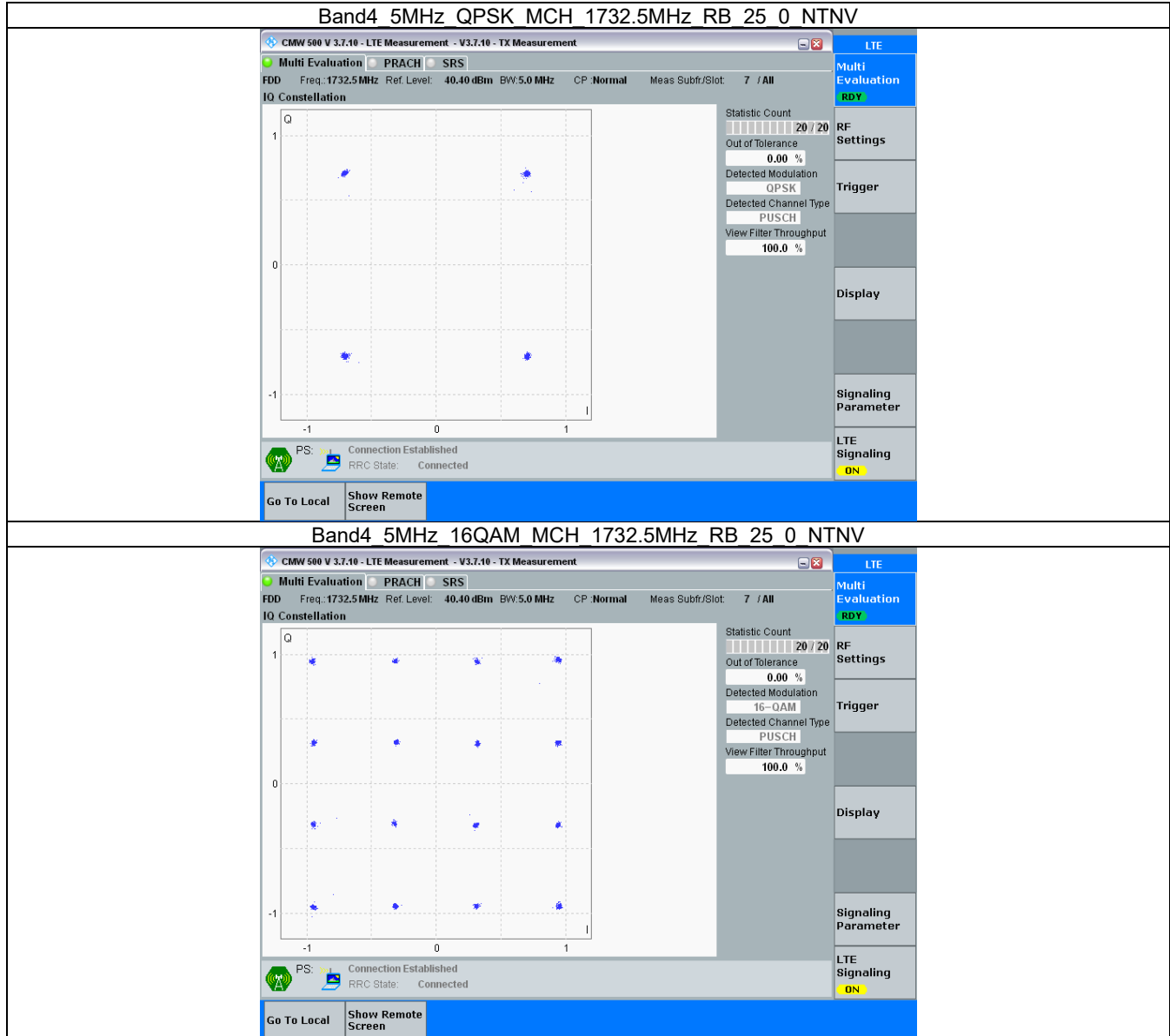
3.2.1 B4_1.4MHz



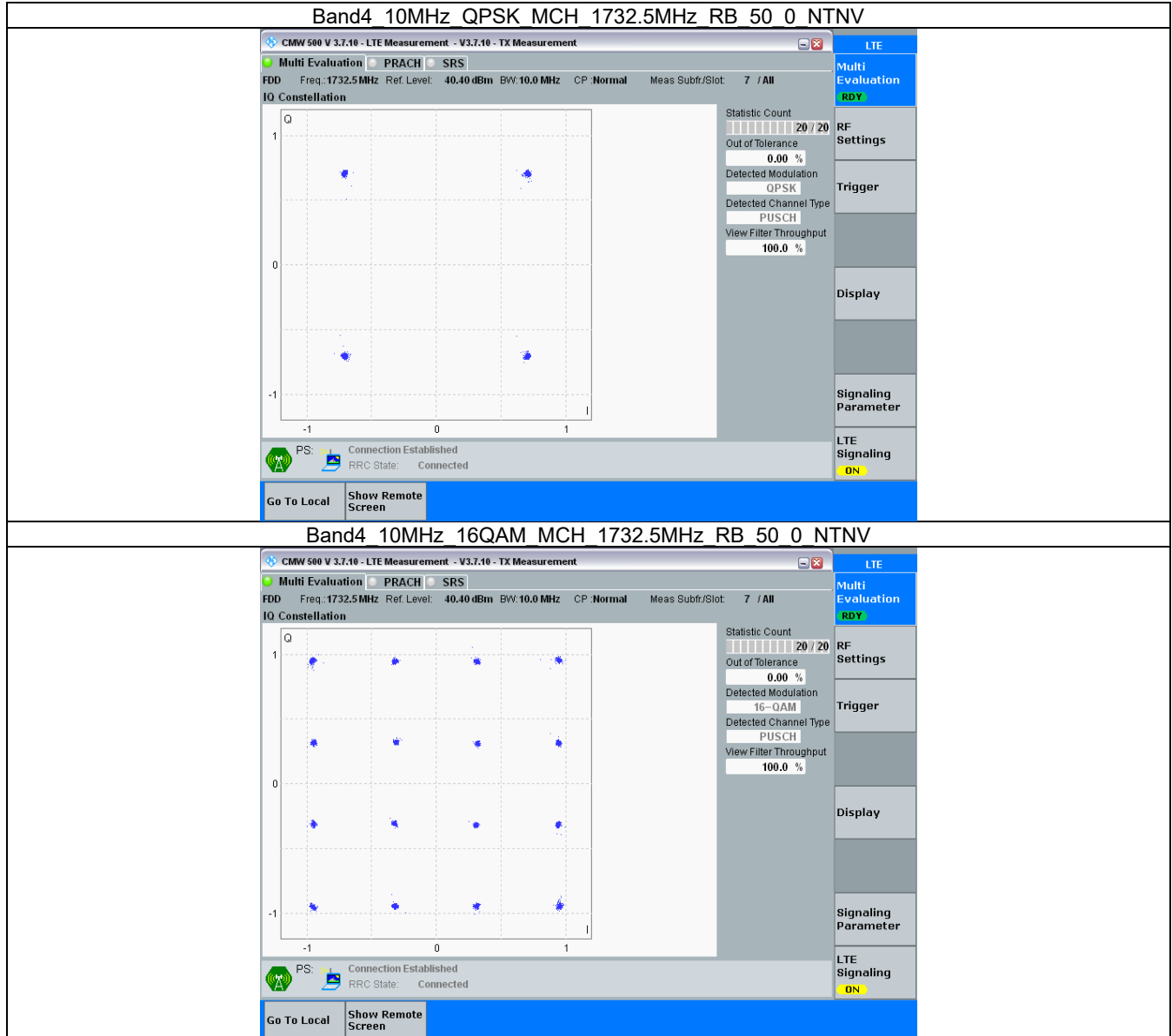
3.2.2 B4_3MHz



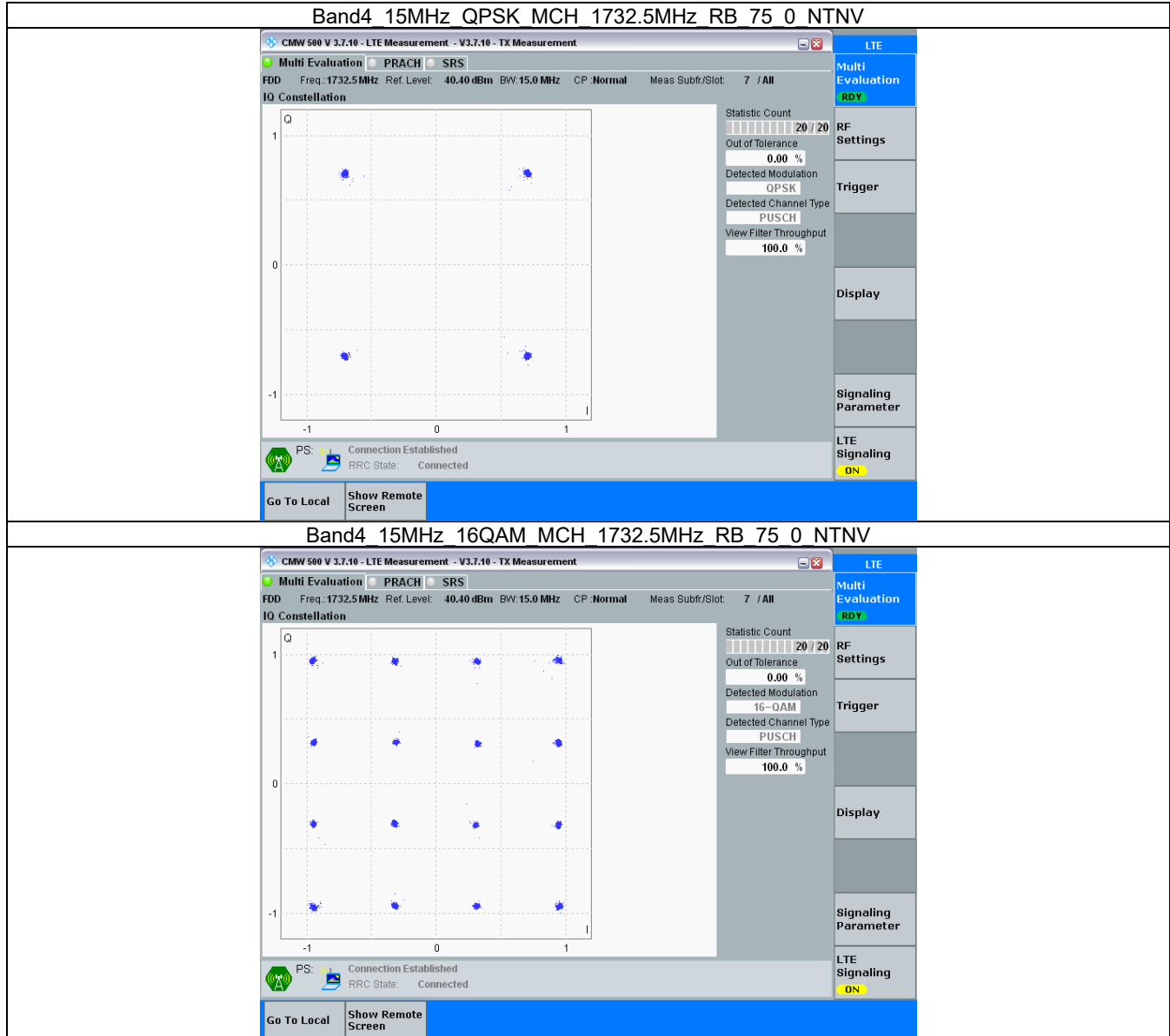
3.2.3 B4_5MHz



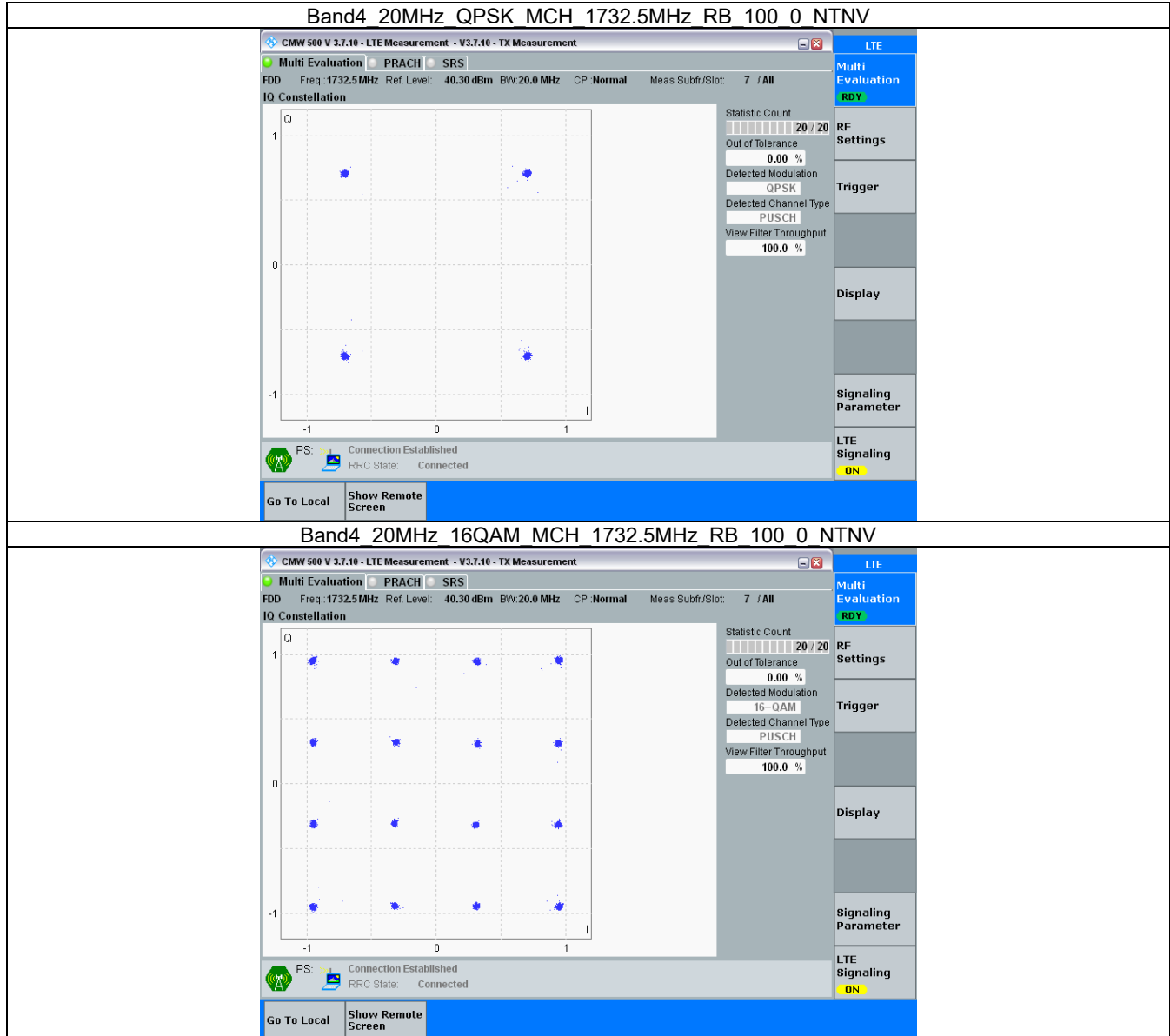
3.2.4 B4_10MHz



3.2.5 B4_15MHz



3.2.6 B4_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

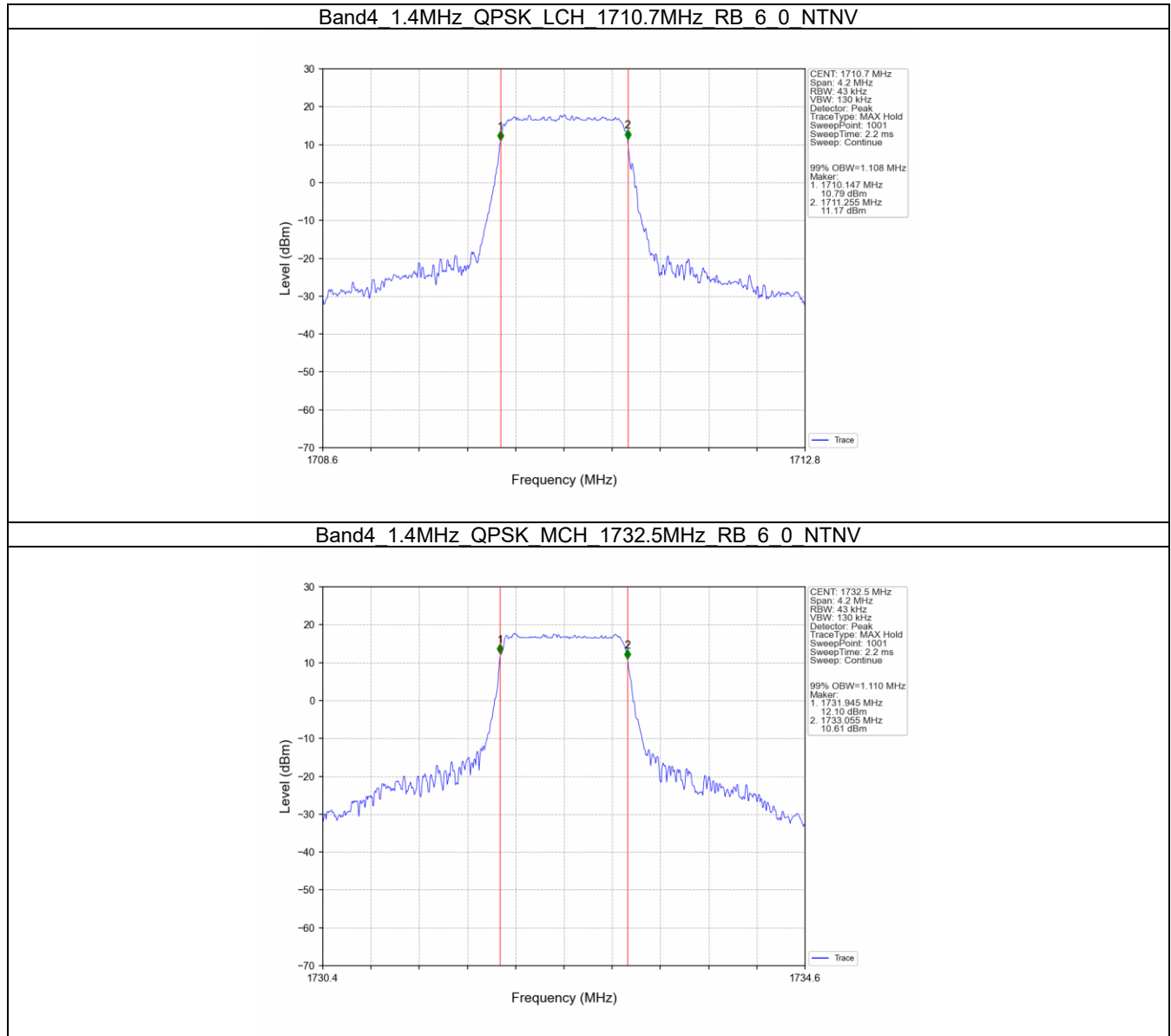
Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.108	/	Pass
		1732.5	6	0	1.110	/	Pass
		1754.3	6	0	1.118	/	Pass
	16QAM	1710.7	6	0	1.107	/	Pass
		1732.5	6	0	1.116	/	Pass
		1754.3	6	0	1.111	/	Pass
3	QPSK	1711.5	15	0	2.733	/	Pass
		1732.5	15	0	2.737	/	Pass
		1753.5	15	0	2.731	/	Pass
	16QAM	1711.5	15	0	2.717	/	Pass
		1732.5	15	0	2.733	/	Pass
		1753.5	15	0	2.735	/	Pass
5	QPSK	1712.5	25	0	4.539	/	Pass
		1732.5	25	0	4.546	/	Pass
		1752.5	25	0	4.557	/	Pass
	16QAM	1712.5	25	0	4.551	/	Pass
		1732.5	25	0	4.549	/	Pass
		1752.5	25	0	4.538	/	Pass
10	QPSK	1715	50	0	9.073	/	Pass
		1732.5	50	0	9.038	/	Pass
		1750	50	0	9.044	/	Pass
	16QAM	1715	50	0	9.053	/	Pass
		1732.5	50	0	9.034	/	Pass
		1750	50	0	9.057	/	Pass
15	QPSK	1717.5	75	0	13.570	/	Pass
		1732.5	75	0	13.524	/	Pass
		1747.5	75	0	13.618	/	Pass
	16QAM	1717.5	75	0	13.588	/	Pass
		1732.5	75	0	13.581	/	Pass
		1747.5	75	0	13.594	/	Pass
20	QPSK	1720	100	0	18.093	/	Pass
		1732.5	100	0	17.998	/	Pass
		1745	100	0	18.130	/	Pass
	16QAM	1720	100	0	18.108	/	Pass
		1732.5	100	0	18.048	/	Pass
		1745	100	0	18.100	/	Pass

4.1.2 Band4_XDB

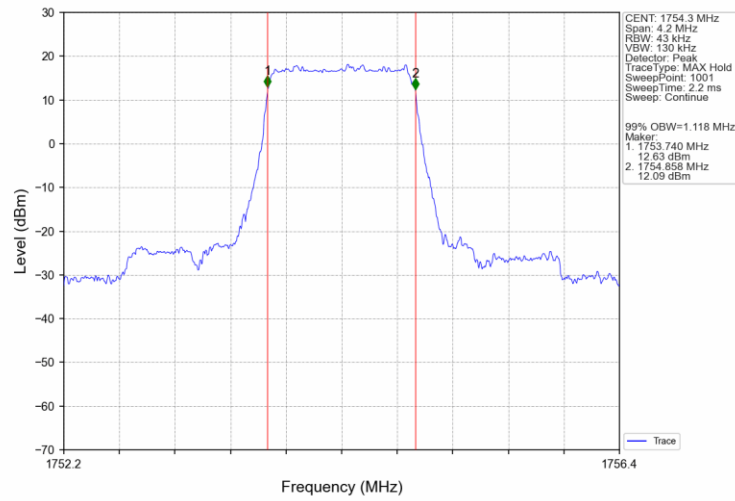
Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.321	/	Pass
		1732.5	6	0	1.316	/	Pass
		1754.3	6	0	1.317	/	Pass
	16QAM	1710.7	6	0	1.303	/	Pass
		1732.5	6	0	1.322	/	Pass
		1754.3	6	0	1.326	/	Pass
3	QPSK	1711.5	15	0	3.008	/	Pass
		1732.5	15	0	3.030	/	Pass
		1753.5	15	0	3.019	/	Pass
	16QAM	1711.5	15	0	3.023	/	Pass
		1732.5	15	0	3.016	/	Pass
		1753.5	15	0	3.004	/	Pass
5	QPSK	1712.5	25	0	5.043	/	Pass
		1732.5	25	0	5.107	/	Pass
		1752.5	25	0	5.043	/	Pass
	16QAM	1712.5	25	0	5.072	/	Pass
		1732.5	25	0	5.064	/	Pass
		1752.5	25	0	5.023	/	Pass
10	QPSK	1715	50	0	9.976	/	Pass
		1732.5	50	0	9.902	/	Pass
		1750	50	0	10.070	/	Pass
	16QAM	1715	50	0	9.947	/	Pass
		1732.5	50	0	9.980	/	Pass
		1750	50	0	9.939	/	Pass
15	QPSK	1717.5	75	0	15.003	/	Pass
		1732.5	75	0	14.796	/	Pass
		1747.5	75	0	14.903	/	Pass
	16QAM	1717.5	75	0	14.864	/	Pass
		1732.5	75	0	14.944	/	Pass
		1747.5	75	0	15.070	/	Pass
20	QPSK	1720	100	0	19.807	/	Pass
		1732.5	100	0	19.845	/	Pass
		1745	100	0	19.781	/	Pass
	16QAM	1720	100	0	19.771	/	Pass
		1732.5	100	0	19.844	/	Pass
		1745	100	0	19.850	/	Pass

4.2 Test Graph

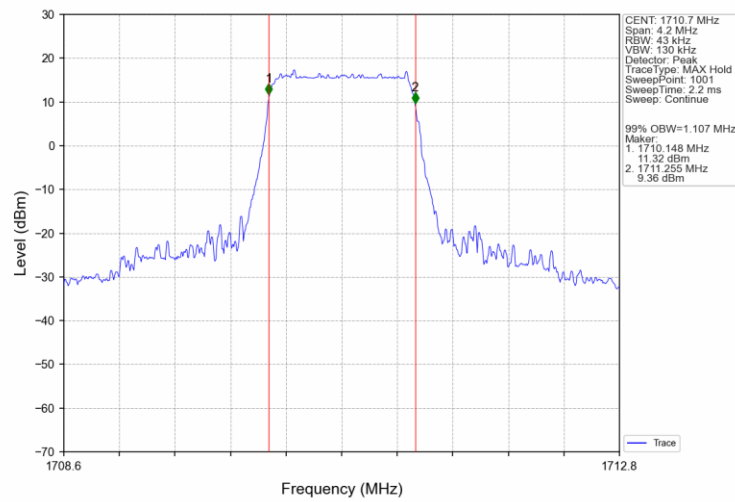
4.2.1 Band4_OBW



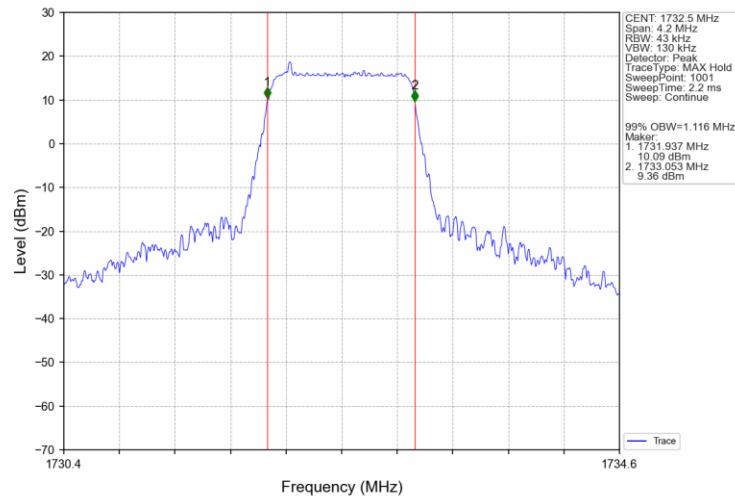
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



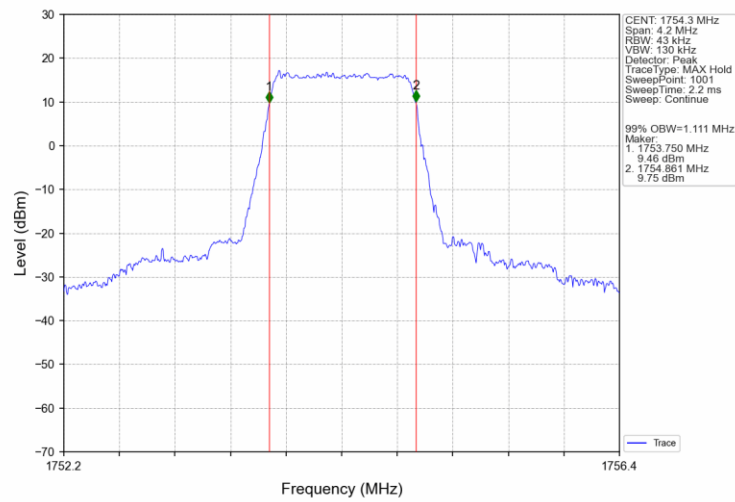
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



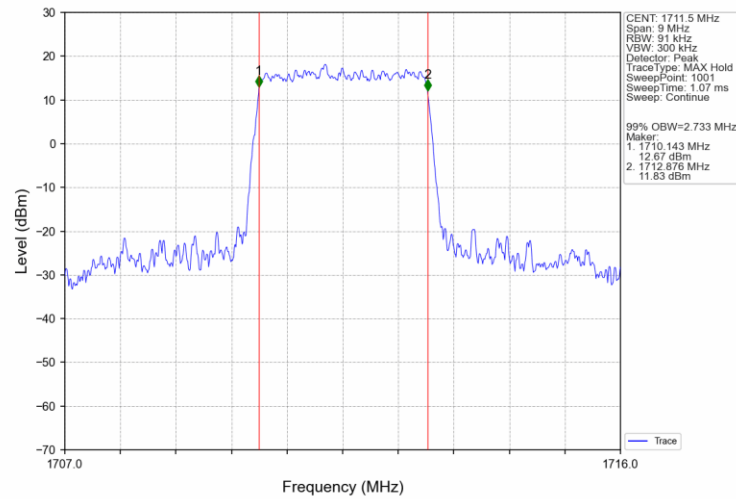
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



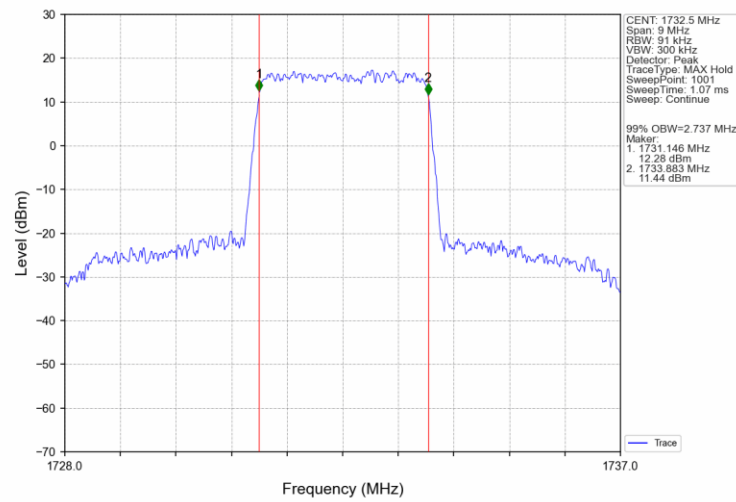
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



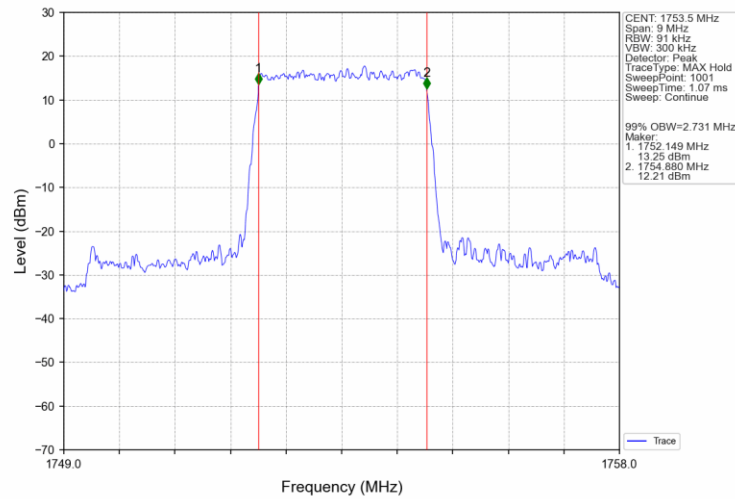
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



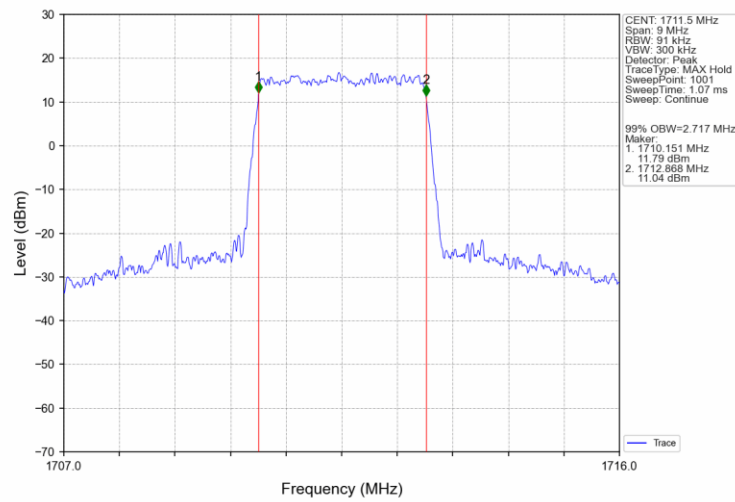
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



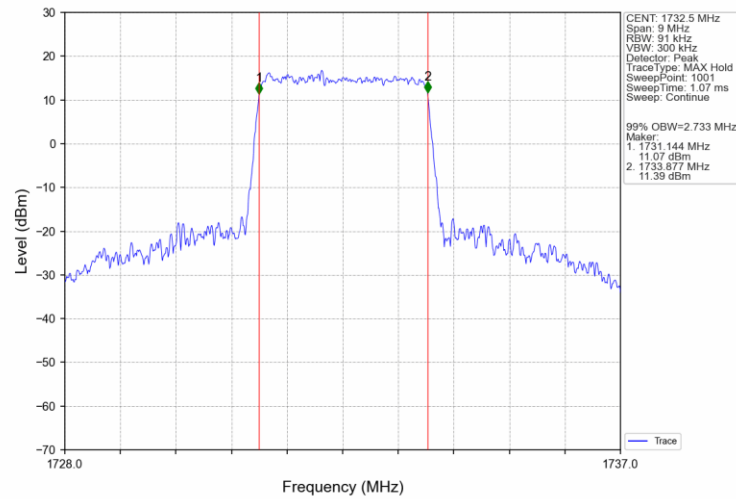
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



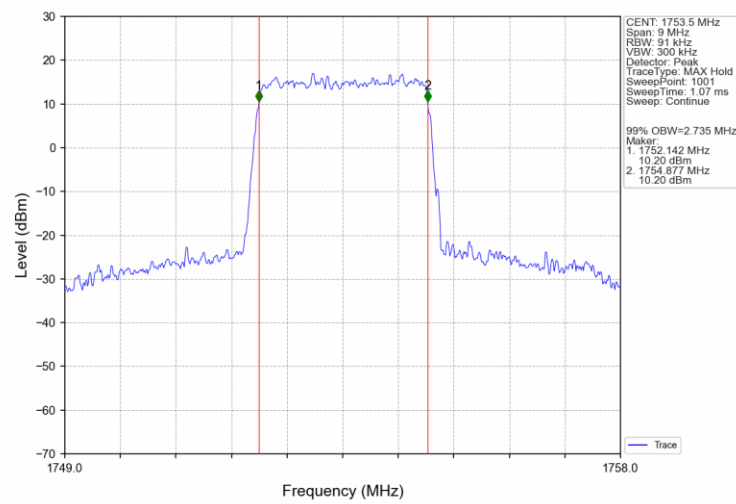
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



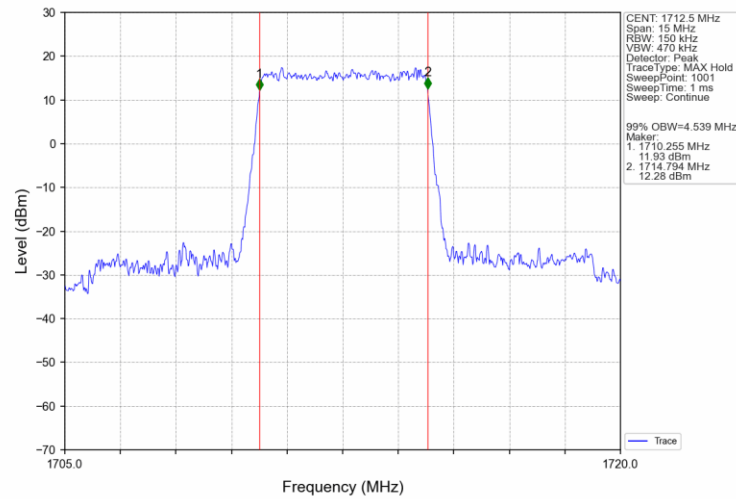
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



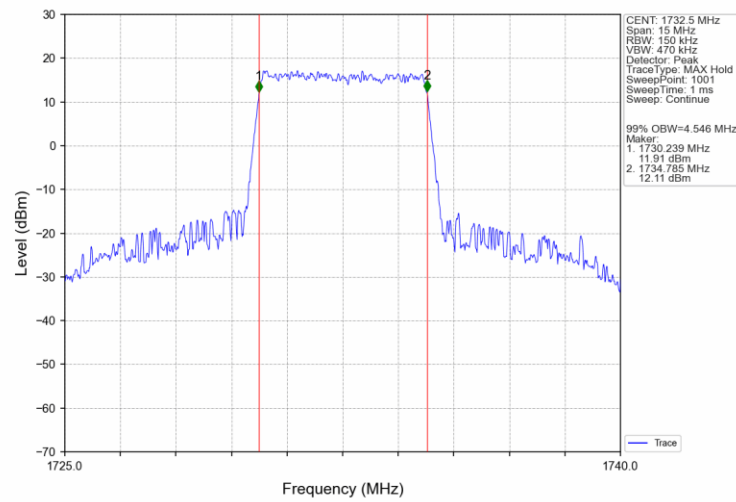
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



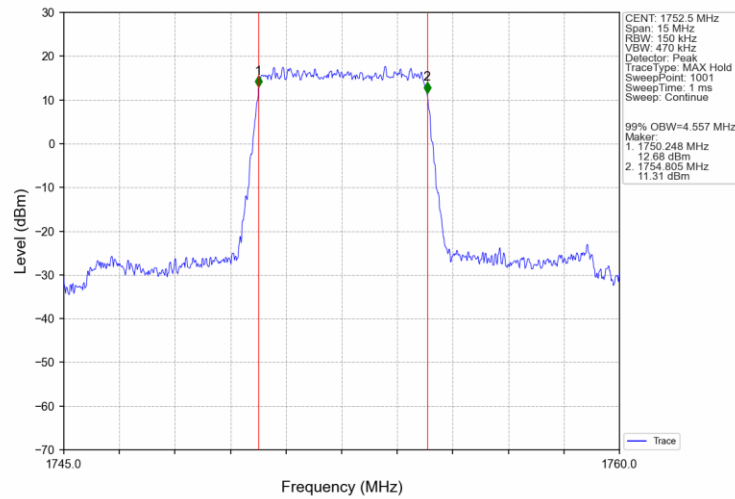
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



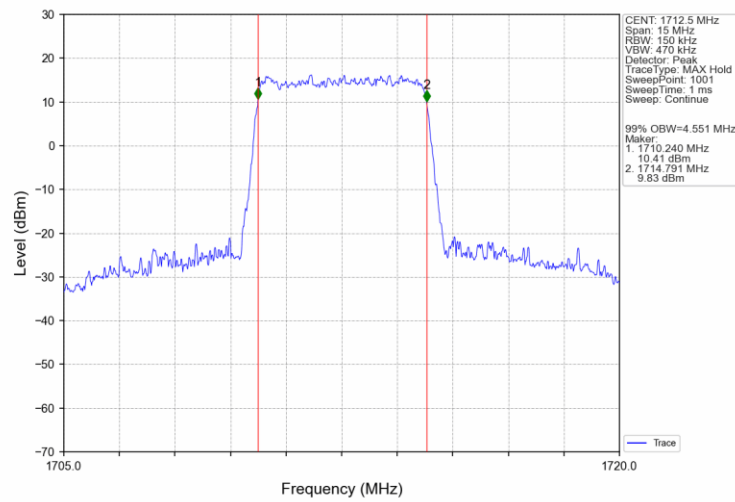
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



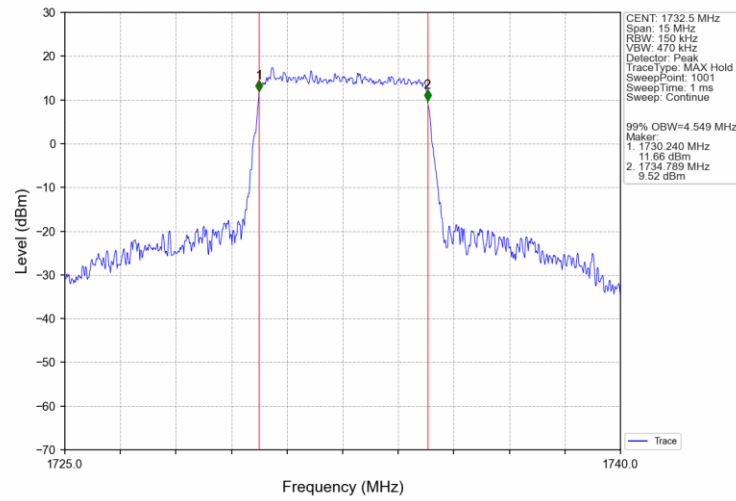
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



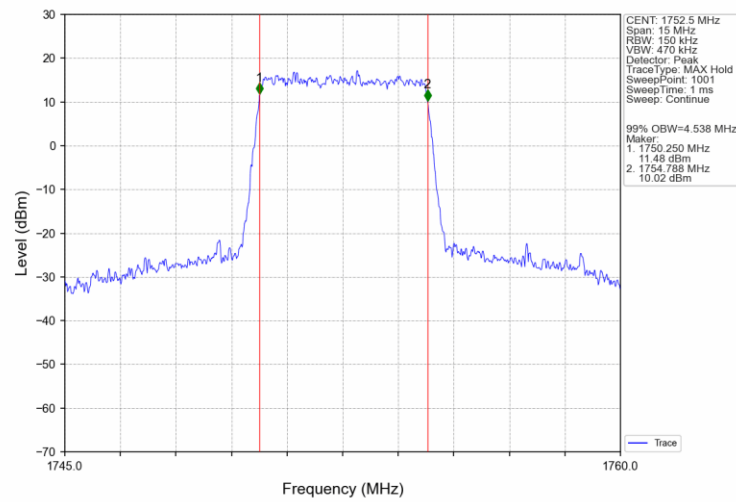
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



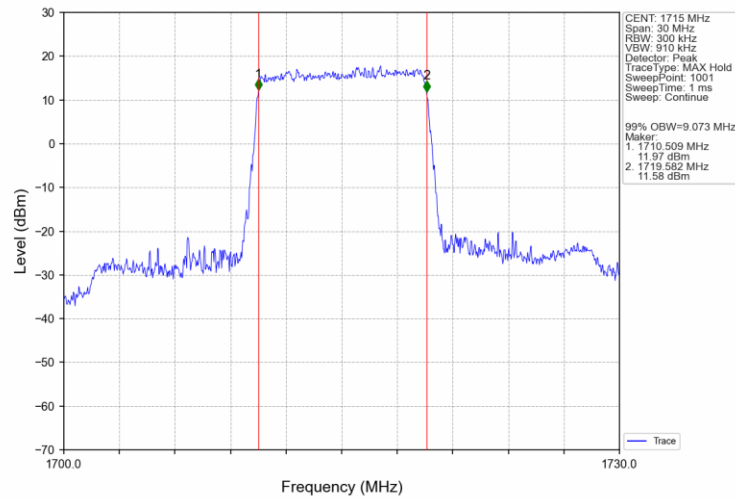
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



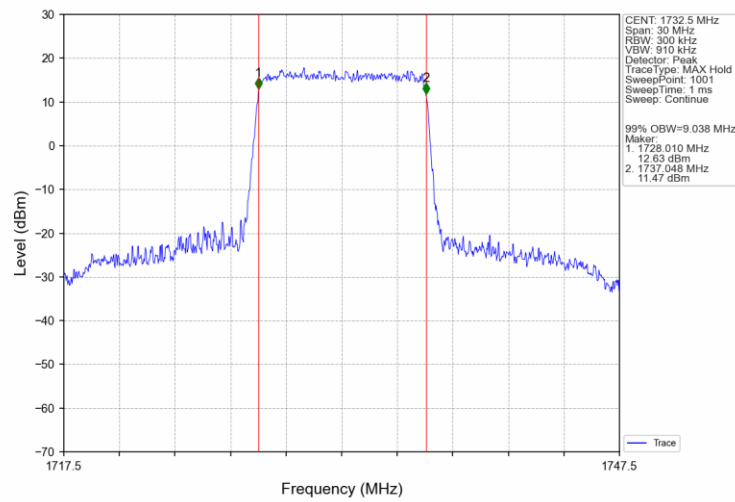
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



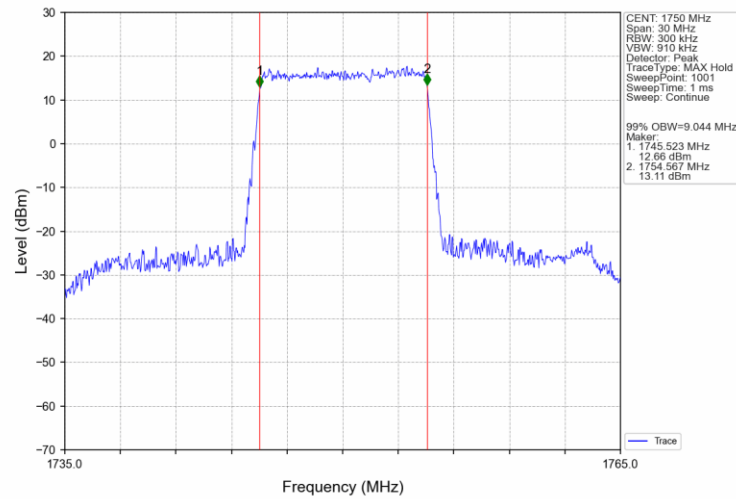
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



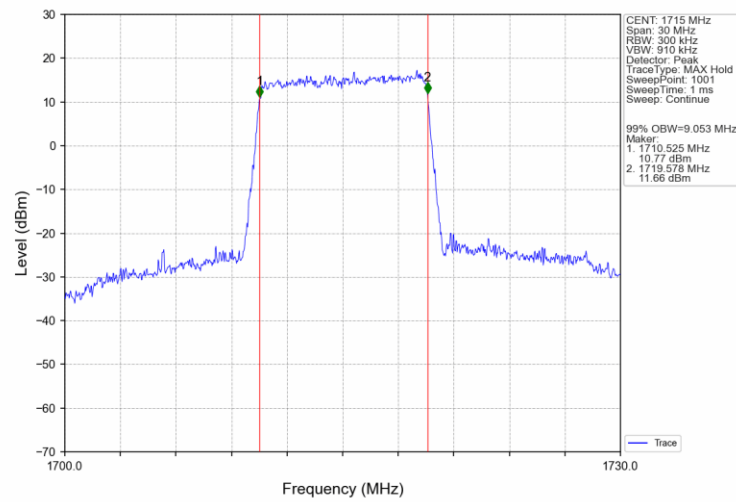
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



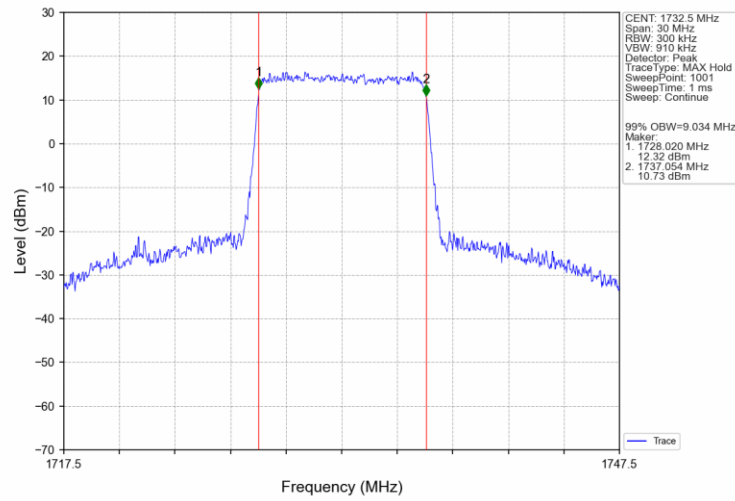
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



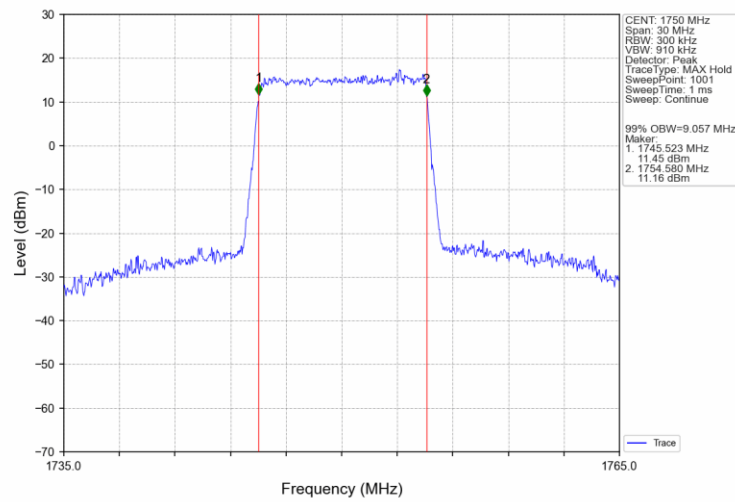
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



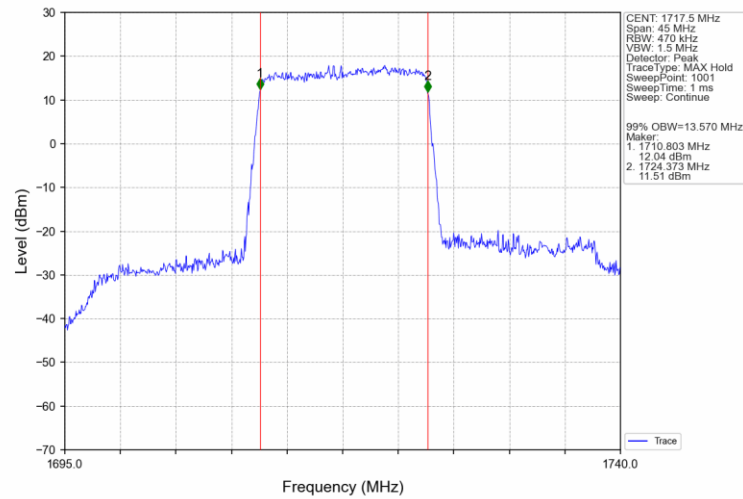
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



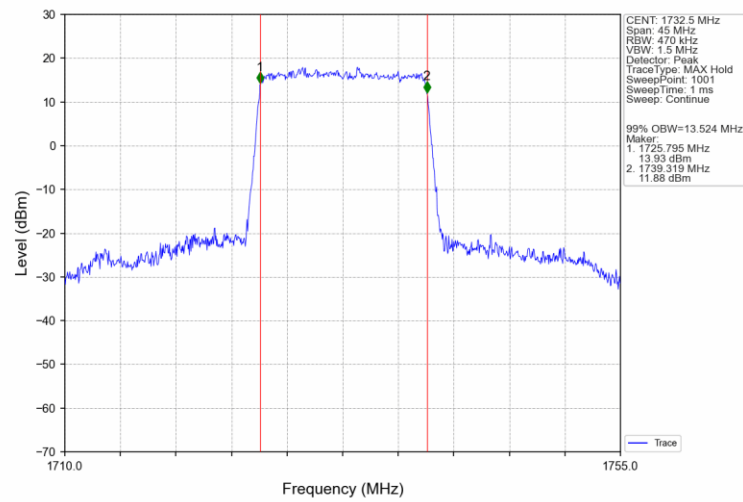
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



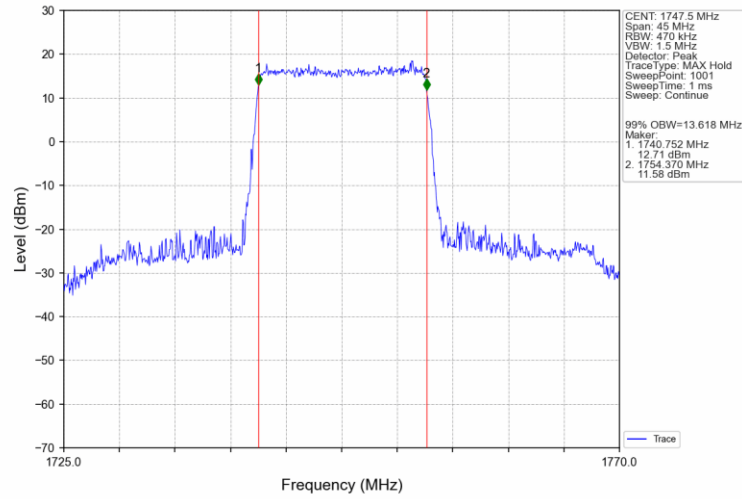
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



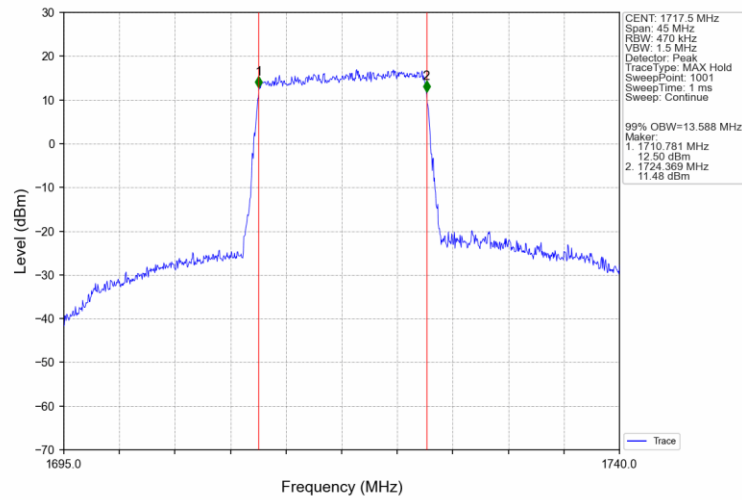
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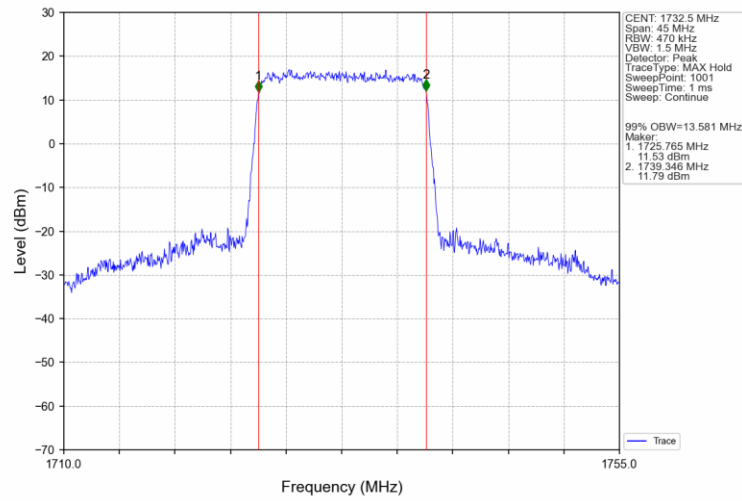
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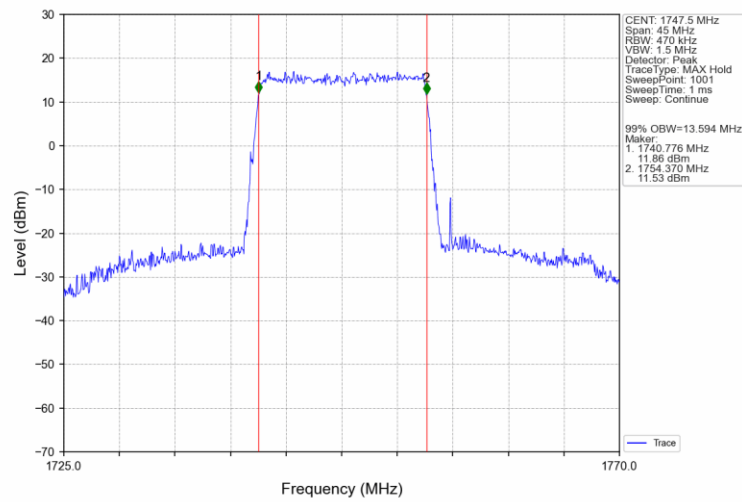
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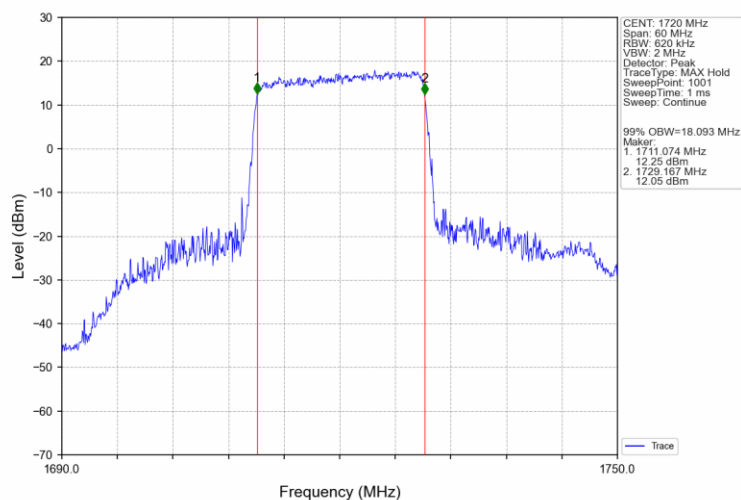
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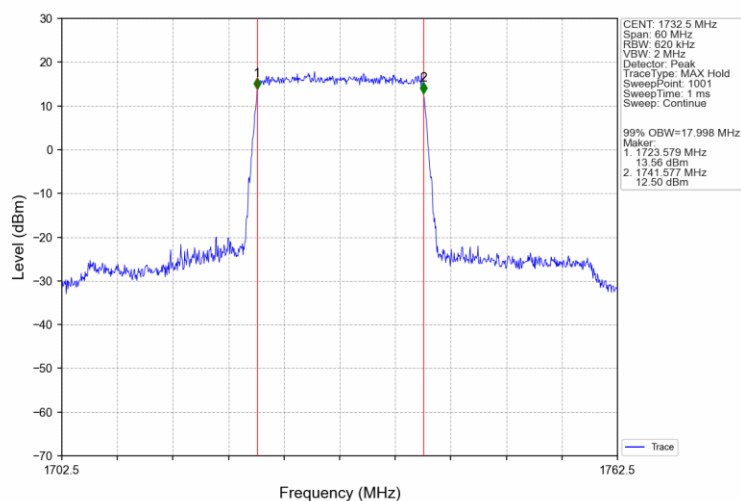
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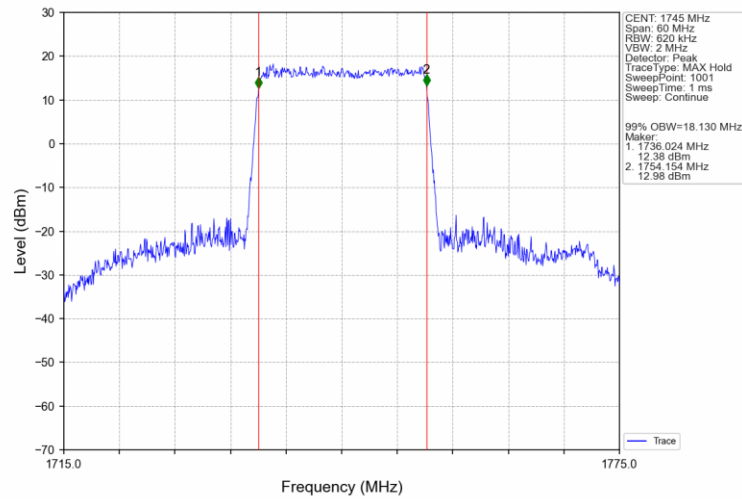
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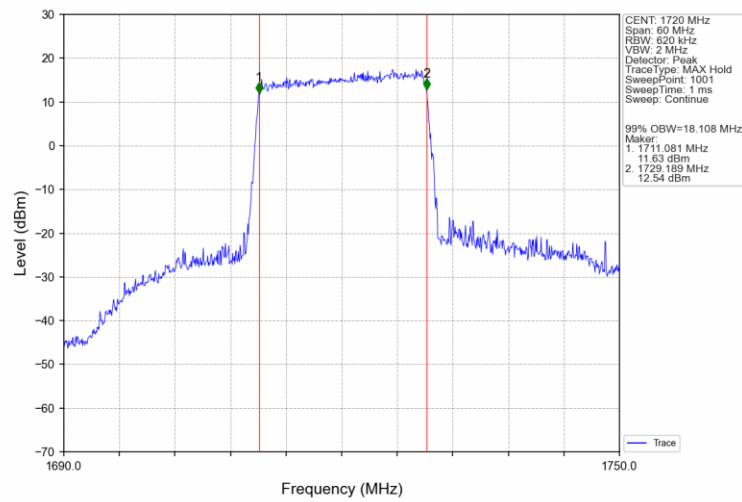
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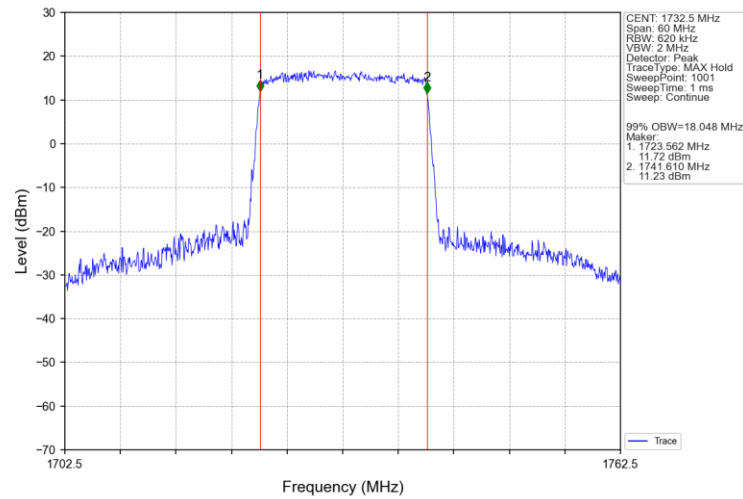
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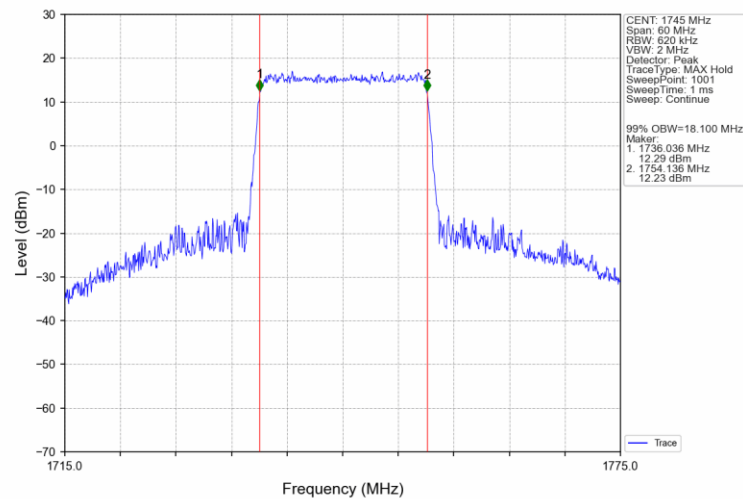
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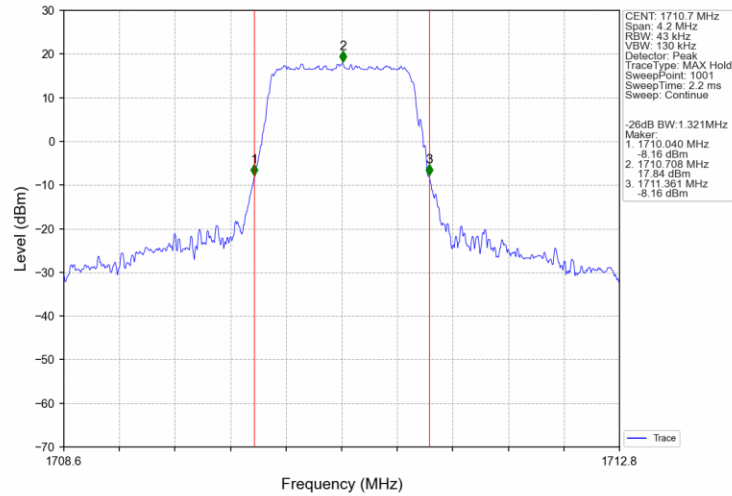


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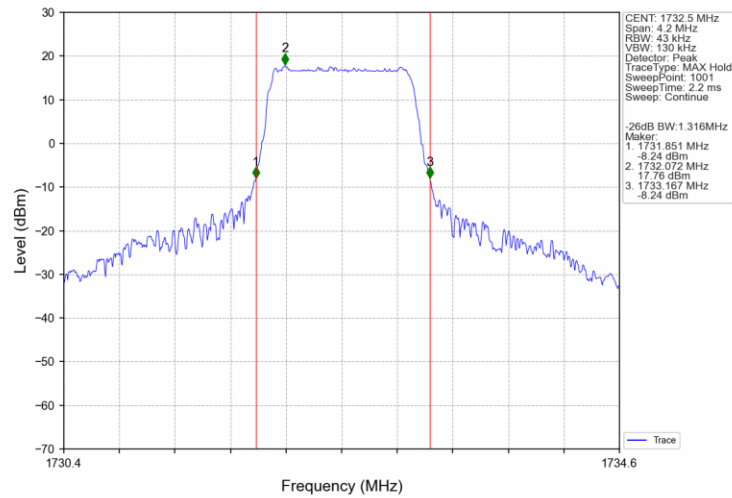


4.2.2 Band4_XDB

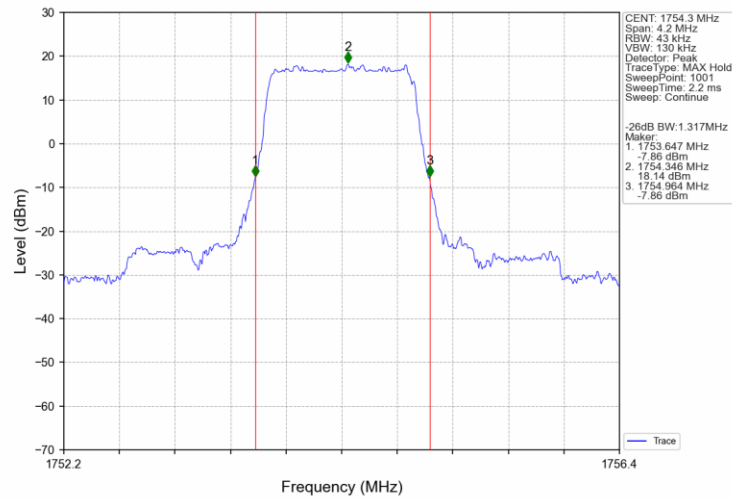
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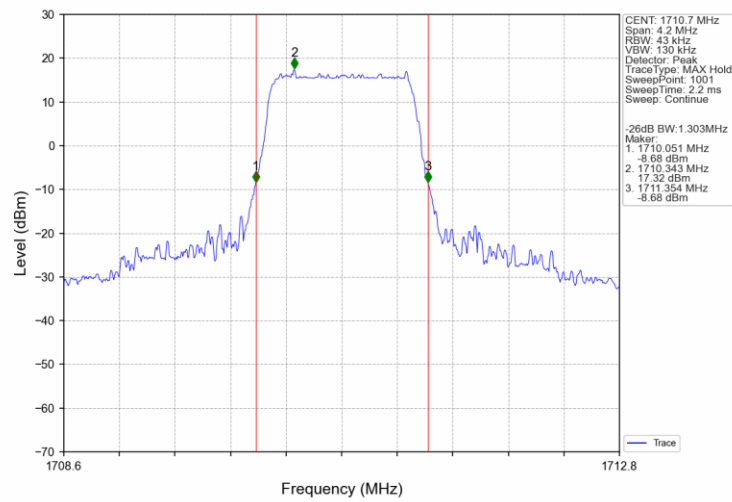
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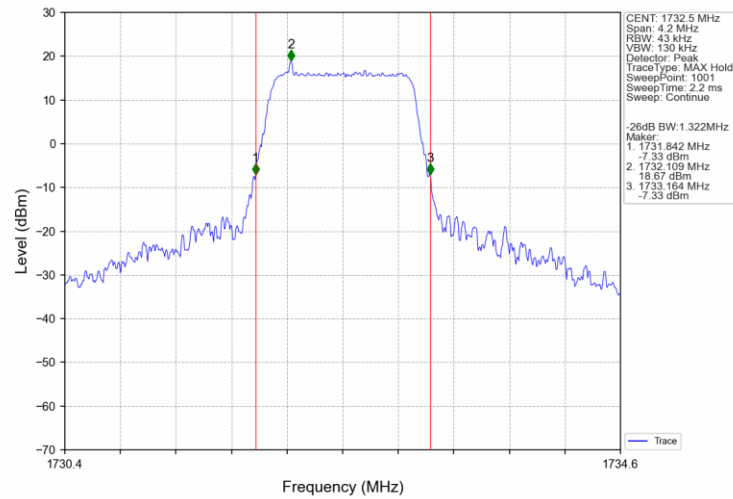
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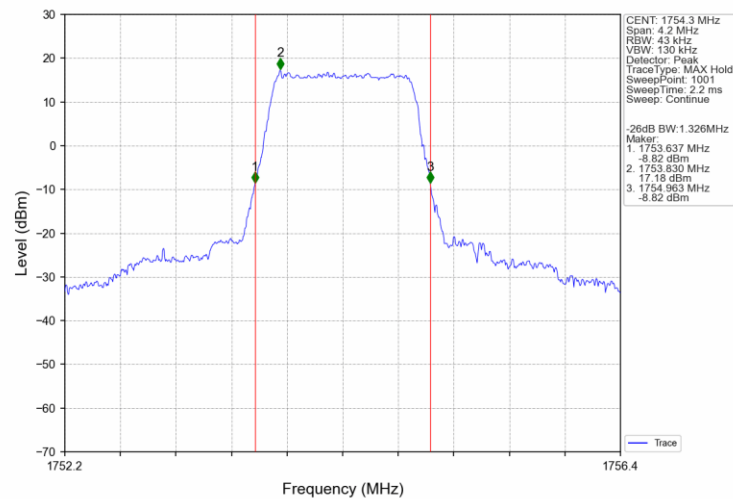
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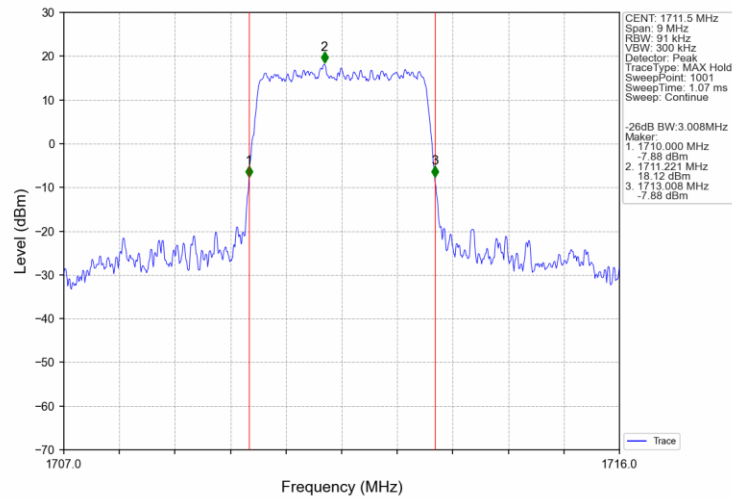
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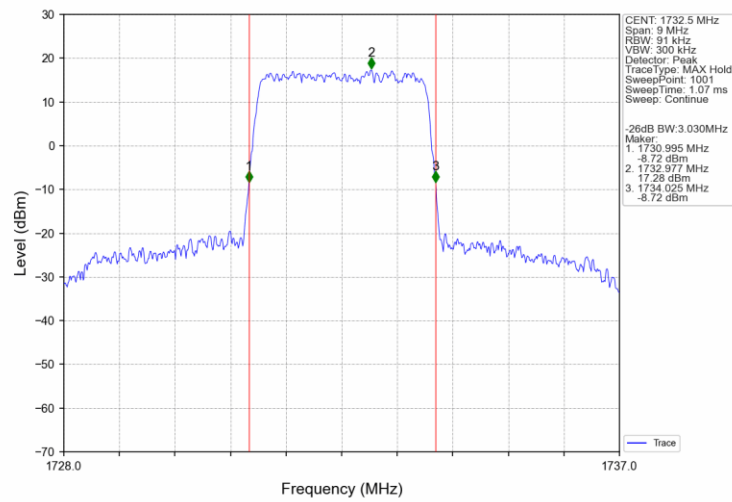
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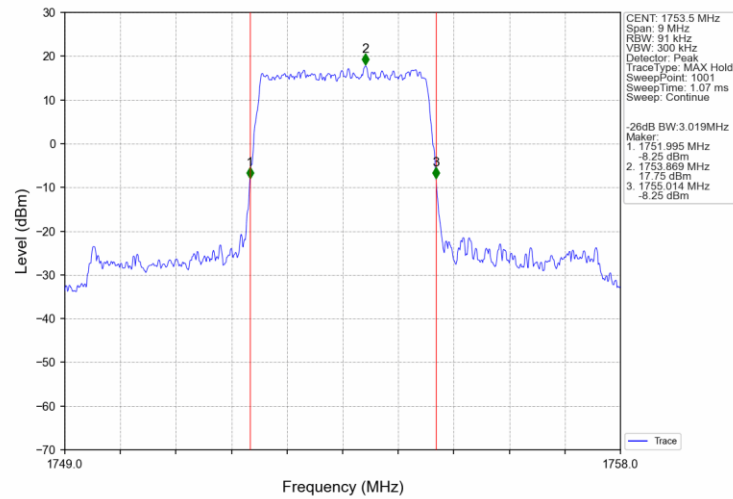
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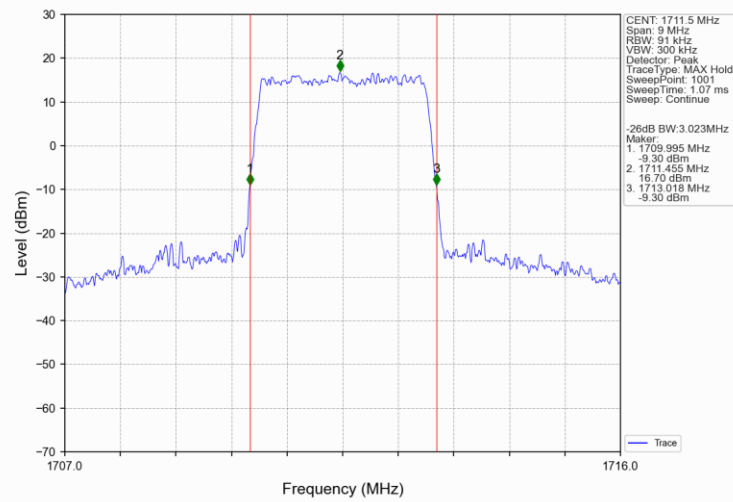
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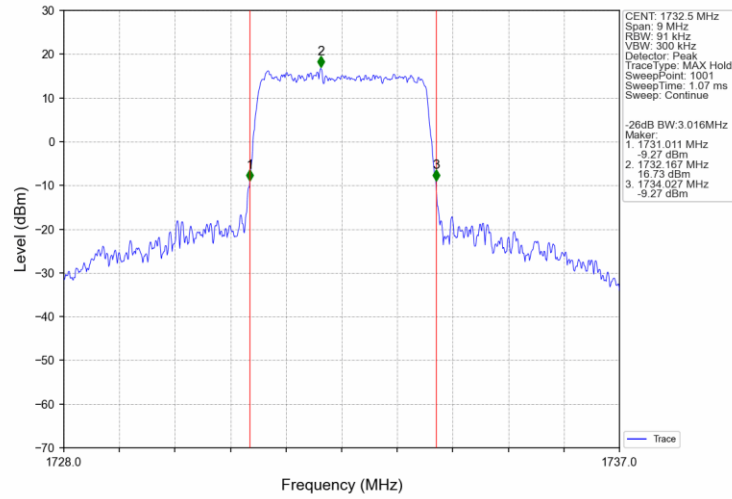
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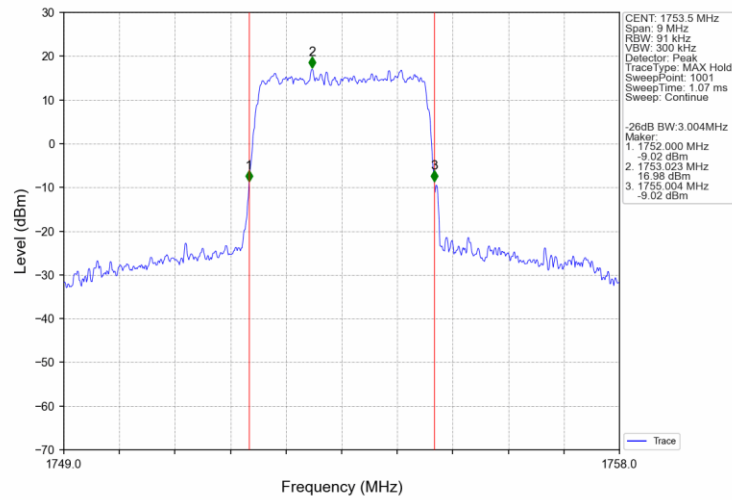
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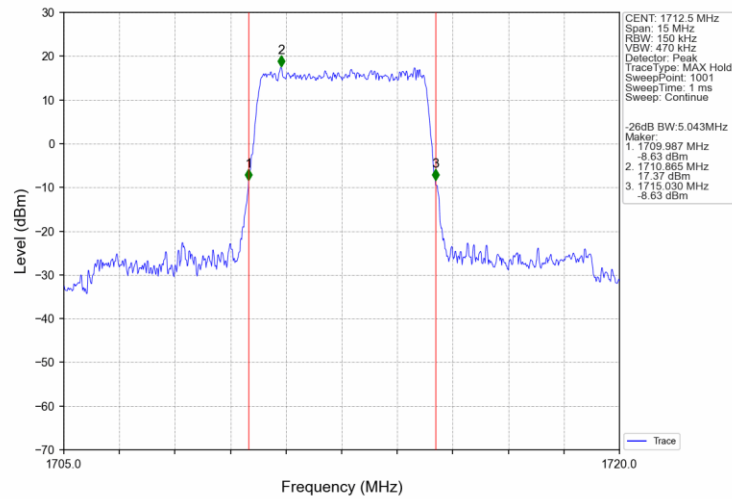
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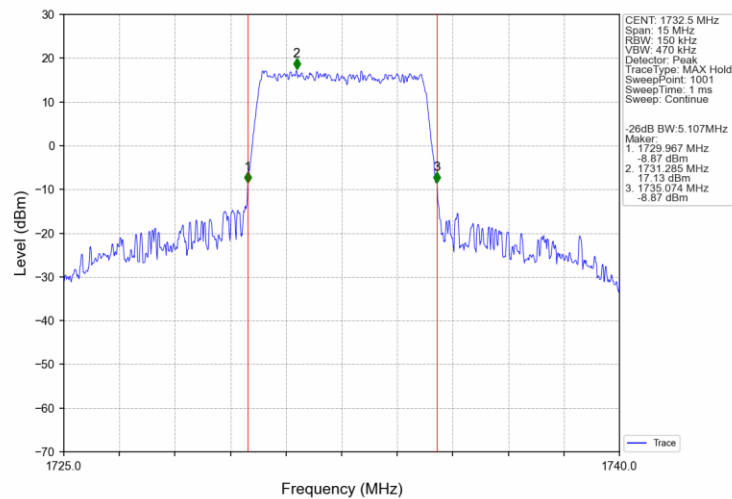
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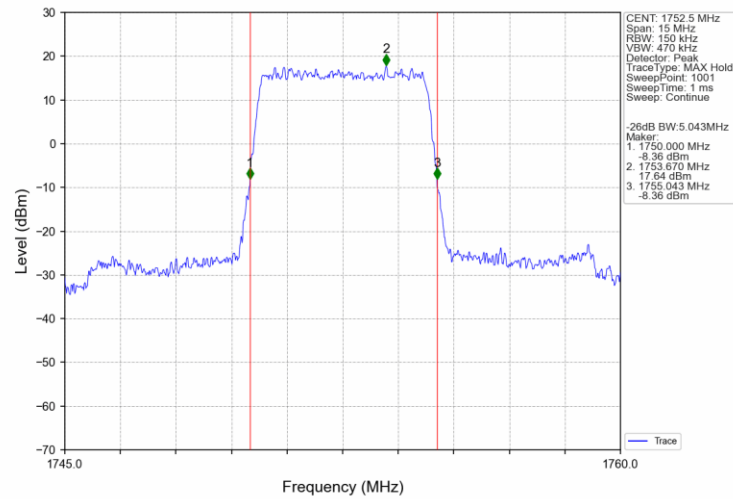
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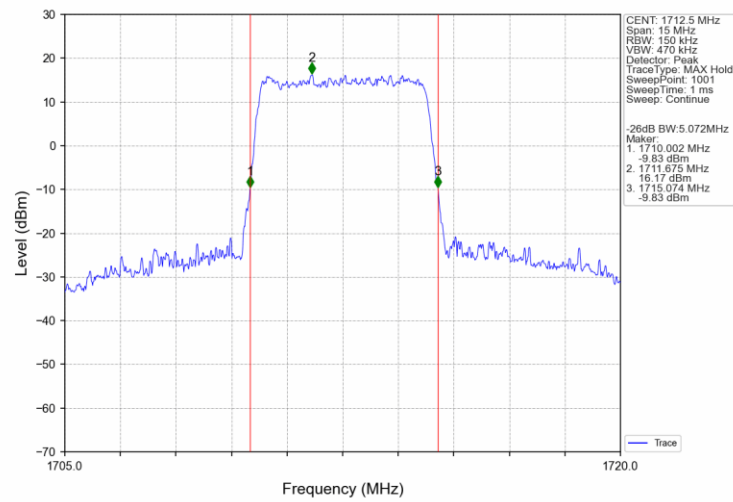
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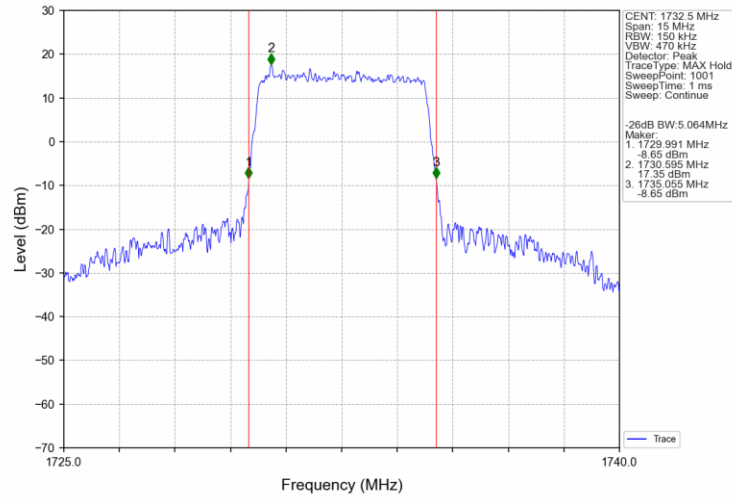
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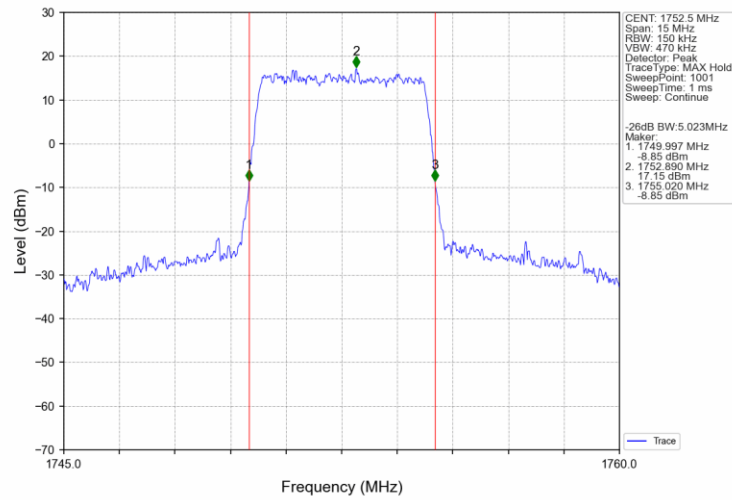
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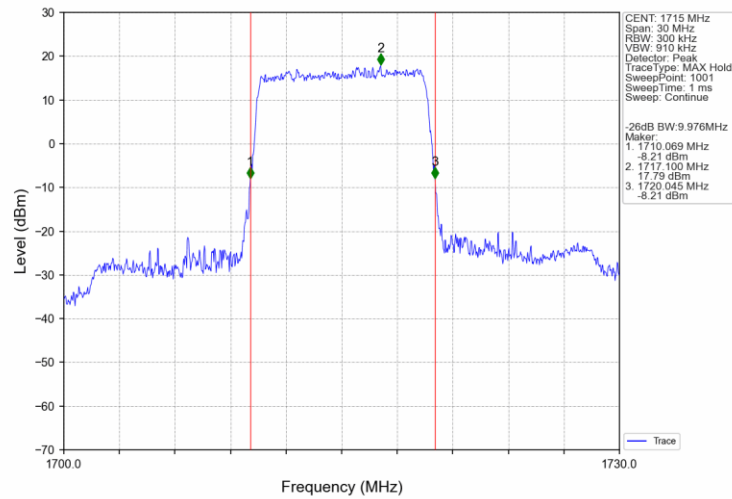
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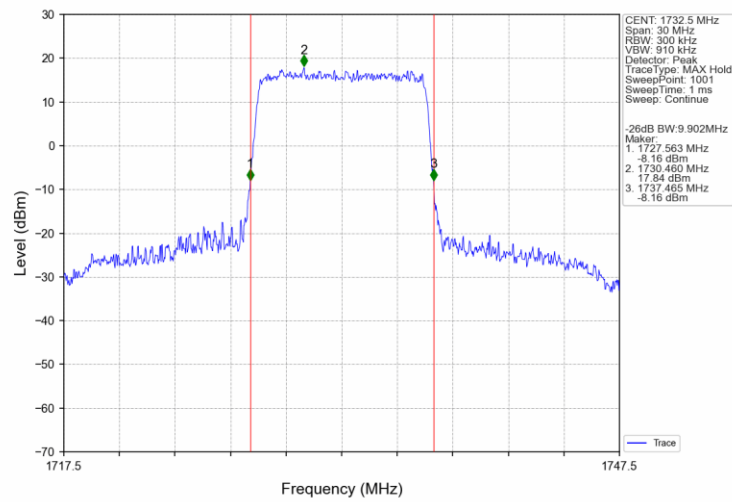
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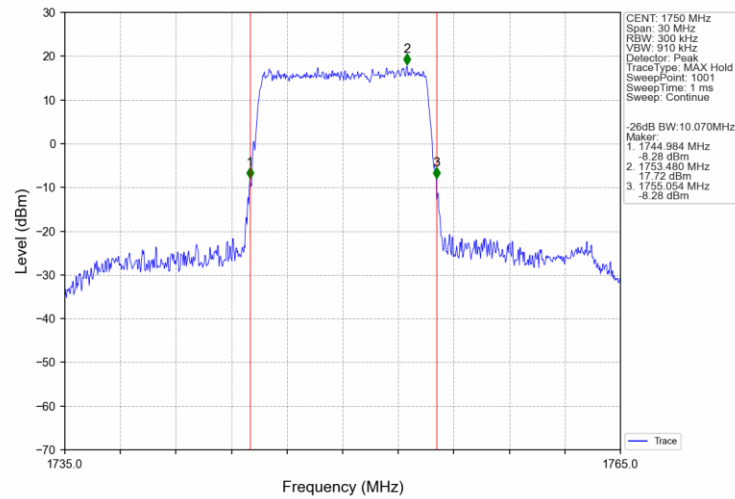
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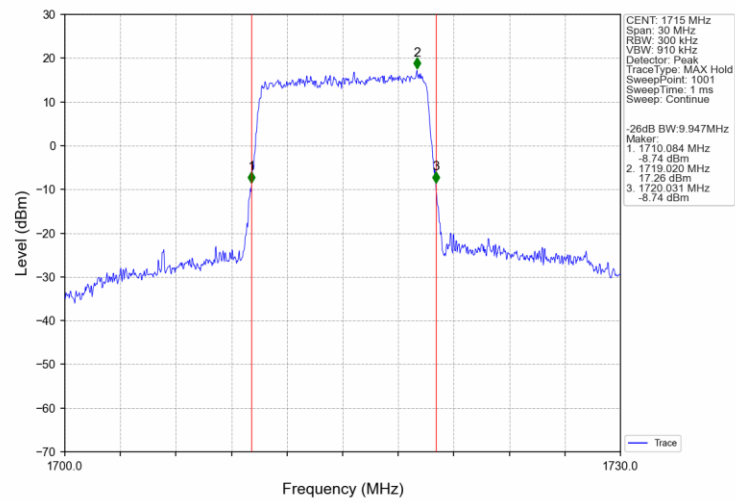
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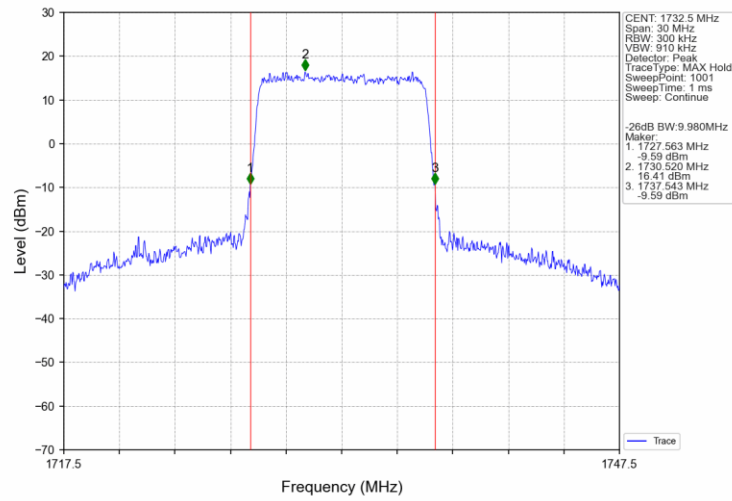
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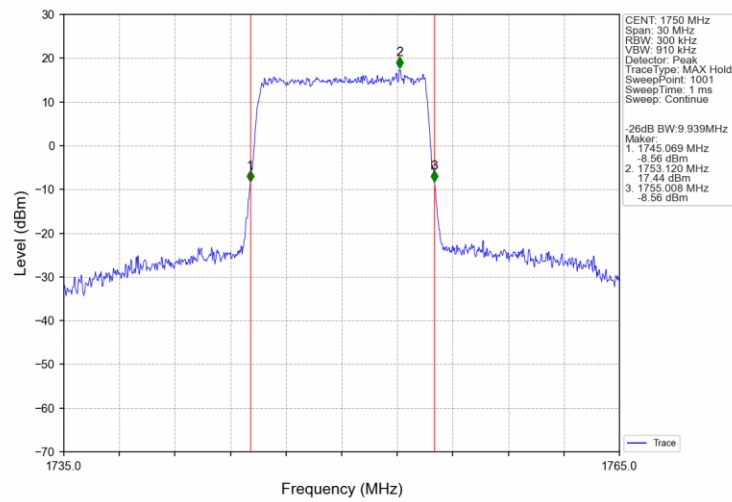
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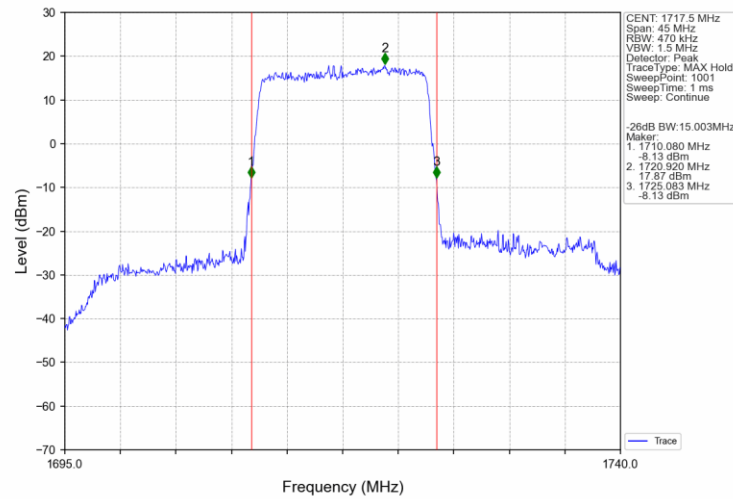
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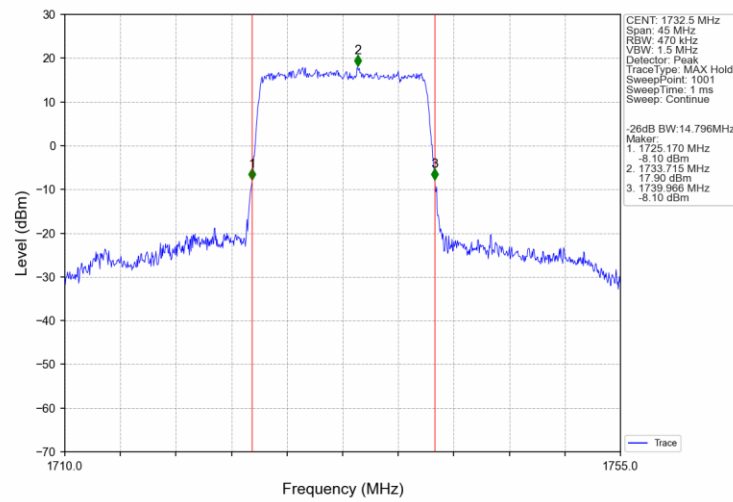
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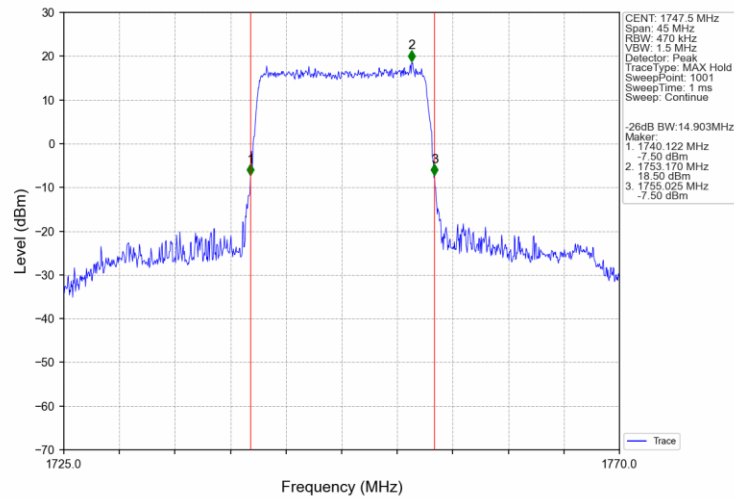
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV

