

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	22.26	0.90	23.16	<=30	Pass
			2	22.30	0.90	23.20	<=30	Pass
			5	22.22	0.90	23.12	<=30	Pass
		3	0	22.30	0.90	23.20	<=30	Pass
			2	22.29	0.90	23.19	<=30	Pass
			3	22.29	0.90	23.19	<=30	Pass
		6	0	21.25	0.90	22.15	<=30	Pass
	1732.5	1	0	21.79	0.90	22.69	<=30	Pass
			2	21.85	0.90	22.75	<=30	Pass
			5	21.81	0.90	22.71	<=30	Pass
		3	0	22.29	0.90	23.19	<=30	Pass
			2	22.28	0.90	23.18	<=30	Pass
			3	22.27	0.90	23.17	<=30	Pass
		6	0	21.39	0.90	22.29	<=30	Pass
	1754.3	1	0	22.12	0.90	23.02	<=30	Pass
			2	22.18	0.90	23.08	<=30	Pass
			5	22.09	0.90	22.99	<=30	Pass
		3	0	22.17	0.90	23.07	<=30	Pass
			2	22.15	0.90	23.05	<=30	Pass
			3	22.13	0.90	23.03	<=30	Pass
		6	0	21.11	0.90	22.01	<=30	Pass
16QAM	1710.7	1	0	20.68	0.90	21.58	<=30	Pass
			2	20.70	0.90	21.60	<=30	Pass
			5	20.72	0.90	21.62	<=30	Pass
		3	0	21.27	0.90	22.17	<=30	Pass
			2	21.28	0.90	22.18	<=30	Pass
			3	21.26	0.90	22.16	<=30	Pass
		6	0	20.21	0.90	21.11	<=30	Pass
	1732.5	1	0	20.98	0.90	21.88	<=30	Pass
			2	20.98	0.90	21.88	<=30	Pass
			5	21.00	0.90	21.90	<=30	Pass
		3	0	21.53	0.90	22.43	<=30	Pass
			2	21.51	0.90	22.41	<=30	Pass
			3	21.51	0.90	22.41	<=30	Pass
		6	0	20.31	0.90	21.21	<=30	Pass
	1754.3	1	0	20.79	0.90	21.69	<=30	Pass
			2	20.64	0.90	21.54	<=30	Pass
			5	20.61	0.90	21.51	<=30	Pass
		3	0	21.15	0.90	22.05	<=30	Pass
			2	21.13	0.90	22.03	<=30	Pass
			3	21.11	0.90	22.01	<=30	Pass
		6	0	20.06	0.90	20.96	<=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	21.75	0.90	22.65	<=30	Pass
			7	21.80	0.90	22.70	<=30	Pass
			14	21.74	0.90	22.64	<=30	Pass
		8	0	21.24	0.90	22.14	<=30	Pass
			4	21.23	0.90	22.13	<=30	Pass
			7	21.24	0.90	22.14	<=30	Pass
		15	0	21.24	0.90	22.14	<=30	Pass
	1732.5	1	0	21.80	0.90	22.70	<=30	Pass
			7	21.80	0.90	22.70	<=30	Pass
			14	21.84	0.90	22.74	<=30	Pass
		8	0	21.33	0.90	22.23	<=30	Pass
			4	21.28	0.90	22.18	<=30	Pass
			7	21.28	0.90	22.18	<=30	Pass
		15	0	21.30	0.90	22.20	<=30	Pass
	1753.5	1	0	21.63	0.90	22.53	<=30	Pass
			7	21.59	0.90	22.49	<=30	Pass
			14	21.55	0.90	22.45	<=30	Pass
		8	0	21.05	0.90	21.95	<=30	Pass
			4	21.06	0.90	21.96	<=30	Pass
			7	21.04	0.90	21.94	<=30	Pass
		15	0	21.08	0.90	21.98	<=30	Pass
16QAM	1711.5	1	0	20.67	0.90	21.57	<=30	Pass
			7	20.69	0.90	21.59	<=30	Pass
			14	20.65	0.90	21.55	<=30	Pass
		8	0	20.25	0.90	21.15	<=30	Pass
			4	20.26	0.90	21.16	<=30	Pass
			7	20.28	0.90	21.18	<=30	Pass
		15	0	20.24	0.90	21.14	<=30	Pass
	1732.5	1	0	20.98	0.90	21.88	<=30	Pass
			7	20.95	0.90	21.85	<=30	Pass
			14	20.92	0.90	21.82	<=30	Pass
		8	0	20.33	0.90	21.23	<=30	Pass
			4	20.30	0.90	21.20	<=30	Pass
			7	20.29	0.90	21.19	<=30	Pass
		15	0	20.22	0.90	21.12	<=30	Pass
	1753.5	1	0	20.82	0.90	21.72	<=30	Pass
			7	20.83	0.90	21.73	<=30	Pass
			14	20.77	0.90	21.67	<=30	Pass
		8	0	20.10	0.90	21.00	<=30	Pass
			4	20.08	0.90	20.98	<=30	Pass
			7	20.07	0.90	20.97	<=30	Pass
		15	0	20.03	0.90	20.93	<=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	21.78	0.90	22.68	<=30	Pass
			13	21.68	0.90	22.58	<=30	Pass
			24	21.76	0.90	22.66	<=30	Pass
		12	0	21.23	0.90	22.13	<=30	Pass
			6	21.24	0.90	22.14	<=30	Pass
			13	21.26	0.90	22.16	<=30	Pass
		25	0	21.28	0.90	22.18	<=30	Pass
	1732.5	1	0	21.96	0.90	22.86	<=30	Pass
			13	21.88	0.90	22.78	<=30	Pass
			24	21.96	0.90	22.86	<=30	Pass
		12	0	21.45	0.90	22.35	<=30	Pass
			6	21.39	0.90	22.29	<=30	Pass
			13	21.35	0.90	22.25	<=30	Pass
		25	0	21.38	0.90	22.28	<=30	Pass
	1752.5	1	0	21.74	0.90	22.64	<=30	Pass
			13	21.64	0.90	22.54	<=30	Pass
			24	21.69	0.90	22.59	<=30	Pass
		12	0	21.09	0.90	21.99	<=30	Pass
			6	21.10	0.90	22.00	<=30	Pass
			13	21.11	0.90	22.01	<=30	Pass
		25	0	21.12	0.90	22.02	<=30	Pass
16QAM	1712.5	1	0	21.01	0.90	21.91	<=30	Pass
			13	20.93	0.90	21.83	<=30	Pass
			24	21.02	0.90	21.92	<=30	Pass
		12	0	20.26	0.90	21.16	<=30	Pass
			6	20.27	0.90	21.17	<=30	Pass
			13	20.26	0.90	21.16	<=30	Pass
		25	0	20.31	0.90	21.21	<=30	Pass
	1732.5	1	0	21.06	0.90	21.96	<=30	Pass
			13	20.98	0.90	21.88	<=30	Pass
			24	21.10	0.90	22.00	<=30	Pass
		12	0	20.36	0.90	21.26	<=30	Pass
			6	20.29	0.90	21.19	<=30	Pass
			13	20.26	0.90	21.16	<=30	Pass
		25	0	20.36	0.90	21.26	<=30	Pass
	1752.5	1	0	20.94	0.90	21.84	<=30	Pass
			13	20.81	0.90	21.71	<=30	Pass
			24	20.86	0.90	21.76	<=30	Pass
		12	0	20.08	0.90	20.98	<=30	Pass
			6	20.07	0.90	20.97	<=30	Pass
			13	20.08	0.90	20.98	<=30	Pass
		25	0	20.15	0.90	21.05	<=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	21.83	0.90	22.73	<=30	Pass
			25	21.81	0.90	22.71	<=30	Pass
			49	21.90	0.90	22.80	<=30	Pass
		25	0	21.22	0.90	22.12	<=30	Pass
			13	21.30	0.90	22.20	<=30	Pass
			25	21.42	0.90	22.32	<=30	Pass
		50	0	21.34	0.90	22.24	<=30	Pass
			0	21.88	0.90	22.78	<=30	Pass
			25	21.91	0.90	22.81	<=30	Pass
	1732.5	1	49	21.87	0.90	22.77	<=30	Pass
			0	21.39	0.90	22.29	<=30	Pass
			13	21.38	0.90	22.28	<=30	Pass
		25	25	21.30	0.90	22.20	<=30	Pass
			0	21.35	0.90	22.25	<=30	Pass
			0	21.69	0.90	22.59	<=30	Pass
		1	25	21.61	0.90	22.51	<=30	Pass
			49	21.61	0.90	22.51	<=30	Pass
			0	21.07	0.90	21.97	<=30	Pass
	1750	25	13	21.08	0.90	21.98	<=30	Pass
			25	21.15	0.90	22.05	<=30	Pass
			0	21.17	0.90	22.07	<=30	Pass
16QAM	1715	1	0	20.70	0.90	21.60	<=30	Pass
			25	20.66	0.90	21.56	<=30	Pass
			49	20.76	0.90	21.66	<=30	Pass
		25	0	20.20	0.90	21.10	<=30	Pass
			13	20.25	0.90	21.15	<=30	Pass
			25	20.39	0.90	21.29	<=30	Pass
		50	0	20.29	0.90	21.19	<=30	Pass
			0	20.98	0.90	21.88	<=30	Pass
			25	20.97	0.90	21.87	<=30	Pass
	1732.5	1	49	21.00	0.90	21.90	<=30	Pass
			0	20.42	0.90	21.32	<=30	Pass
			13	20.40	0.90	21.30	<=30	Pass
		25	25	20.34	0.90	21.24	<=30	Pass
			0	20.32	0.90	21.22	<=30	Pass
			0	20.90	0.90	21.80	<=30	Pass
		1	25	20.81	0.90	21.71	<=30	Pass
			49	20.78	0.90	21.68	<=30	Pass
			0	20.16	0.90	21.06	<=30	Pass
	1750	25	13	20.15	0.90	21.05	<=30	Pass
			25	20.22	0.90	21.12	<=30	Pass
			0	20.14	0.90	21.04	<=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	21.75	0.90	22.65	<=30	Pass
			38	21.81	0.90	22.71	<=30	Pass
			74	21.87	0.90	22.77	<=30	Pass
		36	0	21.18	0.90	22.08	<=30	Pass
			18	21.26	0.90	22.16	<=30	Pass
			39	21.40	0.90	22.30	<=30	Pass
		75	0	21.27	0.90	22.17	<=30	Pass
			0	21.75	0.90	22.65	<=30	Pass
			38	21.82	0.90	22.72	<=30	Pass
	1732.5	1	74	21.72	0.90	22.62	<=30	Pass
			0	21.31	0.90	22.21	<=30	Pass
			18	21.32	0.90	22.22	<=30	Pass
		36	39	21.30	0.90	22.20	<=30	Pass
			0	21.31	0.90	22.21	<=30	Pass
			0	21.68	0.90	22.58	<=30	Pass
		75	38	21.70	0.90	22.60	<=30	Pass
			74	21.51	0.90	22.41	<=30	Pass
			0	21.15	0.90	22.05	<=30	Pass
	1747.5	36	18	21.11	0.90	22.01	<=30	Pass
			39	21.13	0.90	22.03	<=30	Pass
		75	0	21.18	0.90	22.08	<=30	Pass
16QAM	1717.5	1	0	20.84	0.90	21.74	<=30	Pass
			38	20.86	0.90	21.76	<=30	Pass
			74	20.94	0.90	21.84	<=30	Pass
		36	0	20.18	0.90	21.08	<=30	Pass
			18	20.23	0.90	21.13	<=30	Pass
			39	20.37	0.90	21.27	<=30	Pass
		75	0	20.30	0.90	21.20	<=30	Pass
			0	20.89	0.90	21.79	<=30	Pass
			38	20.96	0.90	21.86	<=30	Pass
	1732.5	1	74	20.89	0.90	21.79	<=30	Pass
			0	20.32	0.90	21.22	<=30	Pass
			18	20.32	0.90	21.22	<=30	Pass
		36	39	20.26	0.90	21.16	<=30	Pass
			0	20.30	0.90	21.20	<=30	Pass
		75	0	20.89	0.90	21.79	<=30	Pass
			38	20.90	0.90	21.80	<=30	Pass
			74	20.73	0.90	21.63	<=30	Pass
	1747.5	36	0	20.19	0.90	21.09	<=30	Pass
			18	20.13	0.90	21.03	<=30	Pass
			39	20.15	0.90	21.05	<=30	Pass
		75	0	20.14	0.90	21.04	<=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	21.68	0.90	22.58	<=30	Pass
			50	21.78	0.90	22.68	<=30	Pass
			99	21.76	0.90	22.66	<=30	Pass
		50	0	21.08	0.90	21.98	<=30	Pass
			25	21.34	0.90	22.24	<=30	Pass
			50	21.49	0.90	22.39	<=30	Pass
		100	0	21.30	0.90	22.20	<=30	Pass
			0	21.84	0.90	22.74	<=30	Pass
			50	21.95	0.90	22.85	<=30	Pass
	1732.5	1	0	21.74	0.90	22.64	<=30	Pass
			50	21.32	0.90	22.22	<=30	Pass
			25	21.39	0.90	22.29	<=30	Pass
		50	50	21.29	0.90	22.19	<=30	Pass
			0	21.25	0.90	22.15	<=30	Pass
			0	21.80	0.90	22.70	<=30	Pass
		100	50	21.73	0.90	22.63	<=30	Pass
			99	21.55	0.90	22.45	<=30	Pass
			0	21.27	0.90	22.17	<=30	Pass
	1745	50	25	21.22	0.90	22.12	<=30	Pass
			50	21.21	0.90	22.11	<=30	Pass
		100	0	21.23	0.90	22.13	<=30	Pass
16QAM	1720	1	0	20.55	0.90	21.45	<=30	Pass
			50	20.64	0.90	21.54	<=30	Pass
			99	20.68	0.90	21.58	<=30	Pass
		50	0	20.09	0.90	20.99	<=30	Pass
			25	20.34	0.90	21.24	<=30	Pass
			50	20.50	0.90	21.40	<=30	Pass
		100	0	20.29	0.90	21.19	<=30	Pass
			0	20.72	0.90	21.62	<=30	Pass
			50	20.76	0.90	21.66	<=30	Pass
	1732.5	1	99	20.59	0.90	21.49	<=30	Pass
			0	20.25	0.90	21.15	<=30	Pass
			25	20.31	0.90	21.21	<=30	Pass
		50	50	20.23	0.90	21.13	<=30	Pass
			0	20.26	0.90	21.16	<=30	Pass
			0	20.93	0.90	21.83	<=30	Pass
		100	50	20.88	0.90	21.78	<=30	Pass
			99	20.67	0.90	21.57	<=30	Pass
			0	20.23	0.90	21.13	<=30	Pass
	1745	50	25	20.21	0.90	21.11	<=30	Pass
			50	20.20	0.90	21.10	<=30	Pass
		100	0	20.20	0.90	21.10	<=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	3.27	-4.506	-0.0026	-2.5 to 2.5	Pass
					3.85	7.782	0.0045	-2.5 to 2.5	Pass
					4.43	-6.680	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	4.520	0.0026	-2.5 to 2.5	Pass
				-20	3.85	-6.952	-0.0041	-2.5 to 2.5	Pass
				-10	3.85	-3.047	-0.0018	-2.5 to 2.5	Pass
				0	3.85	-5.722	-0.0033	-2.5 to 2.5	Pass
				10	3.85	5.836	0.0034	-2.5 to 2.5	Pass
				30	3.85	-2.046	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-5.436	-0.0032	-2.5 to 2.5	Pass
				50	3.85	3.505	0.0020	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	5.007	0.0029	-2.5 to 2.5	Pass
					3.85	5.679	0.0033	-2.5 to 2.5	Pass
					4.43	5.035	0.0029	-2.5 to 2.5	Pass
				-30	3.85	-3.991	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	3.061	0.0018	-2.5 to 2.5	Pass
				-10	3.85	-16.837	-0.0097	-2.5 to 2.5	Pass
				0	3.85	4.120	0.0024	-2.5 to 2.5	Pass
				10	3.85	1.888	0.0011	-2.5 to 2.5	Pass
				30	3.85	9.227	0.0053	-2.5 to 2.5	Pass
				40	3.85	6.895	0.0040	-2.5 to 2.5	Pass
				50	3.85	3.862	0.0022	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	5.178	0.0030	-2.5 to 2.5	Pass
					3.85	-6.566	-0.0037	-2.5 to 2.5	Pass
					4.43	7.153	0.0041	-2.5 to 2.5	Pass
				-30	3.85	12.245	0.0070	-2.5 to 2.5	Pass
				-20	3.85	5.021	0.0029	-2.5 to 2.5	Pass
				-10	3.85	14.591	0.0083	-2.5 to 2.5	Pass
				0	3.85	8.698	0.0050	-2.5 to 2.5	Pass
				10	3.85	14.420	0.0082	-2.5 to 2.5	Pass
				30	3.85	2.375	0.0014	-2.5 to 2.5	Pass
				40	3.85	-2.375	-0.0014	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	-1.745	-0.0010	-2.5 to 2.5	Pass
					3.85	-0.916	-0.0005	-2.5 to 2.5	Pass
					4.43	-2.103	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	7.596	0.0044	-2.5 to 2.5	Pass
				-20	3.85	5.593	0.0033	-2.5 to 2.5	Pass
				-10	3.85	0.973	0.0006	-2.5 to 2.5	Pass
				0	3.85	-6.895	-0.0040	-2.5 to 2.5	Pass
				10	3.85	-6.623	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-1.059	-0.0006	-2.5 to 2.5	Pass
				40	3.85	8.140	0.0048	-2.5 to 2.5	Pass
				50	3.85	-1.903	-0.0011	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	0.916	0.0005	-2.5 to 2.5	Pass
					3.85	-3.262	-0.0019	-2.5 to 2.5	Pass
					4.43	-0.687	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	8.068	0.0047	-2.5 to 2.5	Pass
				-20	3.85	-6.323	-0.0036	-2.5 to 2.5	Pass
				-10	3.85	-8.225	-0.0047	-2.5 to 2.5	Pass

				0	3.85	5.550	0.0032	-2.5 to 2.5	Pass
				10	3.85	7.553	0.0044	-2.5 to 2.5	Pass
				30	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				40	3.85	10.843	0.0063	-2.5 to 2.5	Pass
				50	3.85	-6.051	-0.0035	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-2.389	-0.0014	-2.5 to 2.5	Pass
					3.85	0.601	0.0003	-2.5 to 2.5	Pass
					4.43	-1.001	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	1.903	0.0011	-2.5 to 2.5	Pass
				-20	3.85	-1.130	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-4.692	-0.0027	-2.5 to 2.5	Pass
				0	3.85	5.851	0.0033	-2.5 to 2.5	Pass
				10	3.85	-0.429	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-4.992	-0.0028	-2.5 to 2.5	Pass
				40	3.85	1.945	0.0011	-2.5 to 2.5	Pass
				50	3.85	3.476	0.0020	-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	3.27	-2.117	-0.0012	-2.5 to 2.5	Pass
					3.85	-4.649	-0.0027	-2.5 to 2.5	Pass
					4.43	-4.678	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	1.731	0.0010	-2.5 to 2.5	Pass
				-20	3.85	0.572	0.0003	-2.5 to 2.5	Pass
				-10	3.85	0.730	0.0004	-2.5 to 2.5	Pass
				0	3.85	-2.789	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-1.588	-0.0009	-2.5 to 2.5	Pass
				30	3.85	12.760	0.0075	-2.5 to 2.5	Pass
				40	3.85	2.460	0.0014	-2.5 to 2.5	Pass
				50	3.85	-1.516	-0.0009	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	-0.701	-0.0004	-2.5 to 2.5	Pass
					3.85	7.739	0.0045	-2.5 to 2.5	Pass
					4.43	-0.443	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	-3.963	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	1.116	0.0006	-2.5 to 2.5	Pass
				-10	3.85	-4.621	-0.0027	-2.5 to 2.5	Pass
				0	3.85	4.120	0.0024	-2.5 to 2.5	Pass
				10	3.85	-3.691	-0.0021	-2.5 to 2.5	Pass
				30	3.85	-5.693	-0.0033	-2.5 to 2.5	Pass
				40	3.85	9.899	0.0057	-2.5 to 2.5	Pass
				50	3.85	7.482	0.0043	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	3.147	0.0018	-2.5 to 2.5	Pass
					3.85	0.615	0.0004	-2.5 to 2.5	Pass
					4.43	-8.698	-0.0050	-2.5 to 2.5	Pass
				-30	3.85	8.726	0.0050	-2.5 to 2.5	Pass
				-20	3.85	-2.446	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	-2.632	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-2.804	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-7.439	-0.0042	-2.5 to 2.5	Pass
				30	3.85	2.546	0.0015	-2.5 to 2.5	Pass
				40	3.85	-2.847	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-0.300	-0.0002	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	1.116	0.0007	-2.5 to 2.5	Pass
					3.85	6.537	0.0038	-2.5 to 2.5	Pass
					4.43	2.460	0.0014	-2.5 to 2.5	Pass

				-30	3.85	8.597	0.0050	-2.5 to 2.5	Pass
				-20	3.85	4.678	0.0027	-2.5 to 2.5	Pass
				-10	3.85	-1.044	-0.0006	-2.5 to 2.5	Pass
				0	3.85	7.010	0.0041	-2.5 to 2.5	Pass
				10	3.85	3.834	0.0022	-2.5 to 2.5	Pass
				30	3.85	-0.329	-0.0002	-2.5 to 2.5	Pass
				40	3.85	0.229	0.0001	-2.5 to 2.5	Pass
				50	3.85	5.164	0.0030	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	-3.119	-0.0018	-2.5 to 2.5	Pass
					3.85	-3.390	-0.0020	-2.5 to 2.5	Pass
					4.43	1.202	0.0007	-2.5 to 2.5	Pass
				-30	3.85	4.535	0.0026	-2.5 to 2.5	Pass
				-20	3.85	2.418	0.0014	-2.5 to 2.5	Pass
				-10	3.85	-2.232	-0.0013	-2.5 to 2.5	Pass
				0	3.85	5.994	0.0035	-2.5 to 2.5	Pass
				10	3.85	-4.478	-0.0026	-2.5 to 2.5	Pass
				30	3.85	4.606	0.0027	-2.5 to 2.5	Pass
				40	3.85	-7.424	-0.0043	-2.5 to 2.5	Pass
				50	3.85	6.022	0.0035	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	6.580	0.0038	-2.5 to 2.5	Pass
					3.85	7.610	0.0043	-2.5 to 2.5	Pass
					4.43	-1.130	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	3.004	0.0017	-2.5 to 2.5	Pass
				-20	3.85	-6.580	-0.0038	-2.5 to 2.5	Pass
				-10	3.85	-5.579	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-1.044	-0.0006	-2.5 to 2.5	Pass
				10	3.85	1.903	0.0011	-2.5 to 2.5	Pass
				30	3.85	7.095	0.0040	-2.5 to 2.5	Pass
				40	3.85	-8.798	-0.0050	-2.5 to 2.5	Pass
				50	3.85	2.718	0.0016	-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	3.27	3.519	0.0021	-2.5 to 2.5	Pass
					3.85	-0.029	0.0000	-2.5 to 2.5	Pass
					4.43	6.995	0.0041	-2.5 to 2.5	Pass
				-30	3.85	6.537	0.0038	-2.5 to 2.5	Pass
				-20	3.85	8.340	0.0049	-2.5 to 2.5	Pass
				-10	3.85	2.389	0.0014	-2.5 to 2.5	Pass
				0	3.85	2.117	0.0012	-2.5 to 2.5	Pass
				10	3.85	-0.544	-0.0003	-2.5 to 2.5	Pass
				30	3.85	3.862	0.0023	-2.5 to 2.5	Pass
				40	3.85	6.166	0.0036	-2.5 to 2.5	Pass
				50	3.85	5.651	0.0033	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-5.608	-0.0032	-2.5 to 2.5	Pass
					3.85	-2.246	-0.0013	-2.5 to 2.5	Pass
					4.43	1.702	0.0010	-2.5 to 2.5	Pass
				-30	3.85	-6.380	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-3.390	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	-7.381	-0.0043	-2.5 to 2.5	Pass
				0	3.85	-5.522	-0.0032	-2.5 to 2.5	Pass
				10	3.85	-0.515	-0.0003	-2.5 to 2.5	Pass
				30	3.85	2.589	0.0015	-2.5 to 2.5	Pass
				40	3.85	3.290	0.0019	-2.5 to 2.5	Pass
				50	3.85	0.629	0.0004	-2.5 to 2.5	Pass

	1752.5	25	0	20	3.27	-6.824	-0.0039	-2.5 to 2.5	Pass
					3.85	0.873	0.0005	-2.5 to 2.5	Pass
					4.43	10.443	0.0060	-2.5 to 2.5	Pass
				-30	3.85	-0.129	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	3.290	0.0019	-2.5 to 2.5	Pass
				-10	3.85	3.505	0.0020	-2.5 to 2.5	Pass
				0	3.85	0.615	0.0004	-2.5 to 2.5	Pass
				10	3.85	-0.415	-0.0002	-2.5 to 2.5	Pass
				30	3.85	7.811	0.0045	-2.5 to 2.5	Pass
				40	3.85	-0.873	-0.0005	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	2.775	0.0016	-2.5 to 2.5	Pass
					3.85	2.432	0.0014	-2.5 to 2.5	Pass
					4.43	3.390	0.0020	-2.5 to 2.5	Pass
				-30	3.85	6.709	0.0039	-2.5 to 2.5	Pass
				-20	3.85	3.977	0.0023	-2.5 to 2.5	Pass
				-10	3.85	6.323	0.0037	-2.5 to 2.5	Pass
				0	3.85	7.982	0.0047	-2.5 to 2.5	Pass
				10	3.85	-2.918	-0.0017	-2.5 to 2.5	Pass
				30	3.85	3.605	0.0021	-2.5 to 2.5	Pass
				40	3.85	6.423	0.0038	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	4.592	0.0027	-2.5 to 2.5	Pass
					3.85	6.251	0.0036	-2.5 to 2.5	Pass
					4.43	-0.558	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	8.483	0.0049	-2.5 to 2.5	Pass
				-20	3.85	5.736	0.0033	-2.5 to 2.5	Pass
				-10	3.85	0.730	0.0004	-2.5 to 2.5	Pass
				0	3.85	9.799	0.0057	-2.5 to 2.5	Pass
				10	3.85	10.772	0.0062	-2.5 to 2.5	Pass
				30	3.85	3.719	0.0021	-2.5 to 2.5	Pass
				40	3.85	11.973	0.0069	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	0.143	0.0001	-2.5 to 2.5	Pass
					3.85	2.561	0.0015	-2.5 to 2.5	Pass
					4.43	0.286	0.0002	-2.5 to 2.5	Pass
				-30	3.85	3.304	0.0019	-2.5 to 2.5	Pass
				-20	3.85	3.648	0.0021	-2.5 to 2.5	Pass
				-10	3.85	1.488	0.0008	-2.5 to 2.5	Pass
				0	3.85	-2.861	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-6.824	-0.0039	-2.5 to 2.5	Pass
				30	3.85	1.202	0.0007	-2.5 to 2.5	Pass
				40	3.85	1.159	0.0007	-2.5 to 2.5	Pass
				50	3.85	7.868	0.0045	-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	3.27	-1.287	-0.0008	-2.5 to 2.5	Pass
					3.85	-2.017	-0.0012	-2.5 to 2.5	Pass
					4.43	-0.529	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	-0.329	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	-0.715	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	-2.861	-0.0017	-2.5 to 2.5	Pass
				0	3.85	0.572	0.0003	-2.5 to 2.5	Pass
				10	3.85	1.016	0.0006	-2.5 to 2.5	Pass

				30	3.85	2.289	0.0013	-2.5 to 2.5	Pass
				40	3.85	5.407	0.0032	-2.5 to 2.5	Pass
				50	3.85	3.061	0.0018	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-5.593	-0.0032	-2.5 to 2.5	Pass
					3.85	-1.173	-0.0007	-2.5 to 2.5	Pass
					4.43	2.117	0.0012	-2.5 to 2.5	Pass
				-30	3.85	-3.934	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	5.393	0.0031	-2.5 to 2.5	Pass
				-10	3.85	5.078	0.0029	-2.5 to 2.5	Pass
				0	3.85	1.745	0.0010	-2.5 to 2.5	Pass
				10	3.85	-2.146	-0.0012	-2.5 to 2.5	Pass
				30	3.85	3.076	0.0018	-2.5 to 2.5	Pass
				40	3.85	2.174	0.0013	-2.5 to 2.5	Pass
				50	3.85	4.277	0.0025	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	0.458	0.0003	-2.5 to 2.5	Pass
					3.85	9.241	0.0053	-2.5 to 2.5	Pass
					4.43	3.791	0.0022	-2.5 to 2.5	Pass
				-30	3.85	0.386	0.0002	-2.5 to 2.5	Pass
				-20	3.85	1.674	0.0010	-2.5 to 2.5	Pass
				-10	3.85	6.595	0.0038	-2.5 to 2.5	Pass
				0	3.85	7.381	0.0042	-2.5 to 2.5	Pass
				10	3.85	4.721	0.0027	-2.5 to 2.5	Pass
				30	3.85	2.403	0.0014	-2.5 to 2.5	Pass
				40	3.85	4.106	0.0023	-2.5 to 2.5	Pass
				50	3.85	3.991	0.0023	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	6.609	0.0039	-2.5 to 2.5	Pass
					3.85	3.190	0.0019	-2.5 to 2.5	Pass
					4.43	3.591	0.0021	-2.5 to 2.5	Pass
				-30	3.85	6.266	0.0037	-2.5 to 2.5	Pass
				-20	3.85	2.346	0.0014	-2.5 to 2.5	Pass
				-10	3.85	8.698	0.0051	-2.5 to 2.5	Pass
				0	3.85	4.978	0.0029	-2.5 to 2.5	Pass
				10	3.85	1.588	0.0009	-2.5 to 2.5	Pass
				30	3.85	4.692	0.0027	-2.5 to 2.5	Pass
				40	3.85	4.063	0.0024	-2.5 to 2.5	Pass
				50	3.85	-0.529	-0.0003	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-1.030	-0.0006	-2.5 to 2.5	Pass
					3.85	-1.545	-0.0009	-2.5 to 2.5	Pass
					4.43	2.890	0.0017	-2.5 to 2.5	Pass
				-30	3.85	1.230	0.0007	-2.5 to 2.5	Pass
				-20	3.85	-2.918	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	1.388	0.0008	-2.5 to 2.5	Pass
				0	3.85	5.779	0.0033	-2.5 to 2.5	Pass
				10	3.85	-1.416	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-1.502	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-4.692	-0.0027	-2.5 to 2.5	Pass
				50	3.85	-6.895	-0.0040	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	3.433	0.0020	-2.5 to 2.5	Pass
					3.85	3.748	0.0021	-2.5 to 2.5	Pass
					4.43	1.431	0.0008	-2.5 to 2.5	Pass
				-30	3.85	1.044	0.0006	-2.5 to 2.5	Pass
				-20	3.85	2.618	0.0015	-2.5 to 2.5	Pass
				-10	3.85	2.890	0.0017	-2.5 to 2.5	Pass
				0	3.85	-0.343	-0.0002	-2.5 to 2.5	Pass
				10	3.85	3.762	0.0021	-2.5 to 2.5	Pass
				30	3.85	3.204	0.0018	-2.5 to 2.5	Pass
				40	3.85	2.704	0.0015	-2.5 to 2.5	Pass
				50	3.85	2.446	0.0014	-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	3.27	-0.172	-0.0001	-2.5 to 2.5	Pass
					3.85	0.472	0.0003	-2.5 to 2.5	Pass
					4.43	-2.332	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-1.903	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	0.572	0.0003	-2.5 to 2.5	Pass
				-10	3.85	1.273	0.0007	-2.5 to 2.5	Pass
				0	3.85	-0.401	-0.0002	-2.5 to 2.5	Pass
				10	3.85	-0.844	-0.0005	-2.5 to 2.5	Pass
				30	3.85	1.545	0.0009	-2.5 to 2.5	Pass
				40	3.85	0.515	0.0003	-2.5 to 2.5	Pass
				50	3.85	0.358	0.0002	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	3.304	0.0019	-2.5 to 2.5	Pass
					3.85	3.033	0.0018	-2.5 to 2.5	Pass
					4.43	1.216	0.0007	-2.5 to 2.5	Pass
				-30	3.85	1.187	0.0007	-2.5 to 2.5	Pass
				-20	3.85	3.719	0.0021	-2.5 to 2.5	Pass
				-10	3.85	1.359	0.0008	-2.5 to 2.5	Pass
				0	3.85	3.691	0.0021	-2.5 to 2.5	Pass
				10	3.85	0.372	0.0002	-2.5 to 2.5	Pass
				30	3.85	-1.316	-0.0008	-2.5 to 2.5	Pass
				40	3.85	0.343	0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.873	-0.0005	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	6.666	0.0038	-2.5 to 2.5	Pass
					3.85	7.052	0.0040	-2.5 to 2.5	Pass
					4.43	3.047	0.0017	-2.5 to 2.5	Pass
				-30	3.85	5.307	0.0030	-2.5 to 2.5	Pass
				-20	3.85	3.591	0.0021	-2.5 to 2.5	Pass
				-10	3.85	0.844	0.0005	-2.5 to 2.5	Pass
				0	3.85	4.292	0.0025	-2.5 to 2.5	Pass
				10	3.85	7.110	0.0041	-2.5 to 2.5	Pass
				30	3.85	5.908	0.0034	-2.5 to 2.5	Pass
				40	3.85	3.762	0.0022	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	1.216	0.0007	-2.5 to 2.5	Pass
					3.85	-5.322	-0.0031	-2.5 to 2.5	Pass
					4.43	-1.559	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	1.788	0.0010	-2.5 to 2.5	Pass
				-20	3.85	1.116	0.0006	-2.5 to 2.5	Pass
				-10	3.85	2.432	0.0014	-2.5 to 2.5	Pass
				0	3.85	6.552	0.0038	-2.5 to 2.5	Pass
				10	3.85	1.545	0.0009	-2.5 to 2.5	Pass
				30	3.85	4.549	0.0026	-2.5 to 2.5	Pass
				40	3.85	4.392	0.0026	-2.5 to 2.5	Pass
				50	3.85	5.736	0.0033	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	4.735	0.0027	-2.5 to 2.5	Pass
					3.85	-0.029	0.0000	-2.5 to 2.5	Pass
					4.43	1.960	0.0011	-2.5 to 2.5	Pass
				-30	3.85	1.817	0.0010	-2.5 to 2.5	Pass
				-20	3.85	1.087	0.0006	-2.5 to 2.5	Pass
				-10	3.85	0.129	0.0001	-2.5 to 2.5	Pass
				0	3.85	2.546	0.0015	-2.5 to 2.5	Pass
				10	3.85	4.520	0.0026	-2.5 to 2.5	Pass
				30	3.85	4.778	0.0028	-2.5 to 2.5	Pass
				40	3.85	2.389	0.0014	-2.5 to 2.5	Pass
				50	3.85	5.693	0.0033	-2.5 to 2.5	Pass

	1747.5	75	0	20	3.27	7.696	0.0044	-2.5 to 2.5	Pass
					3.85	1.988	0.0011	-2.5 to 2.5	Pass
					4.43	4.706	0.0027	-2.5 to 2.5	Pass
				-30	3.85	6.337	0.0036	-2.5 to 2.5	Pass
				-20	3.85	3.777	0.0022	-2.5 to 2.5	Pass
				-10	3.85	6.137	0.0035	-2.5 to 2.5	Pass
				0	3.85	1.602	0.0009	-2.5 to 2.5	Pass
				10	3.85	9.956	0.0057	-2.5 to 2.5	Pass
				30	3.85	1.416	0.0008	-2.5 to 2.5	Pass
				40	3.85	4.749	0.0027	-2.5 to 2.5	Pass
				50	3.85	5.980	0.0034	-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	3.27	1.616	0.0009	-2.5 to 2.5	Pass
					3.85	-0.529	-0.0003	-2.5 to 2.5	Pass
					4.43	0.329	0.0002	-2.5 to 2.5	Pass
				-30	3.85	5.178	0.0030	-2.5 to 2.5	Pass
				-20	3.85	6.065	0.0035	-2.5 to 2.5	Pass
				-10	3.85	4.535	0.0026	-2.5 to 2.5	Pass
				0	3.85	0.830	0.0005	-2.5 to 2.5	Pass
				10	3.85	2.389	0.0014	-2.5 to 2.5	Pass
				30	3.85	0.272	0.0002	-2.5 to 2.5	Pass
				40	3.85	2.418	0.0014	-2.5 to 2.5	Pass
				50	3.85	2.775	0.0016	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	2.260	0.0013	-2.5 to 2.5	Pass
					3.85	5.751	0.0033	-2.5 to 2.5	Pass
					4.43	7.524	0.0043	-2.5 to 2.5	Pass
				-30	3.85	0.329	0.0002	-2.5 to 2.5	Pass
				-20	3.85	5.608	0.0032	-2.5 to 2.5	Pass
				-10	3.85	3.719	0.0021	-2.5 to 2.5	Pass
				0	3.85	1.330	0.0008	-2.5 to 2.5	Pass
				10	3.85	1.974	0.0011	-2.5 to 2.5	Pass
				30	3.85	5.250	0.0030	-2.5 to 2.5	Pass
				40	3.85	6.208	0.0036	-2.5 to 2.5	Pass
				50	3.85	3.405	0.0020	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	4.120	0.0024	-2.5 to 2.5	Pass
					3.85	3.490	0.0020	-2.5 to 2.5	Pass
					4.43	2.718	0.0016	-2.5 to 2.5	Pass
				-30	3.85	1.345	0.0008	-2.5 to 2.5	Pass
				-20	3.85	2.732	0.0016	-2.5 to 2.5	Pass
				-10	3.85	0.472	0.0003	-2.5 to 2.5	Pass
				0	3.85	2.317	0.0013	-2.5 to 2.5	Pass
				10	3.85	1.931	0.0011	-2.5 to 2.5	Pass
				30	3.85	2.775	0.0016	-2.5 to 2.5	Pass
				40	3.85	2.418	0.0014	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	0.172	0.0001	-2.5 to 2.5	Pass
					3.85	1.860	0.0011	-2.5 to 2.5	Pass
					4.43	1.717	0.0010	-2.5 to 2.5	Pass
				-30	3.85	2.832	0.0016	-2.5 to 2.5	Pass
				-20	3.85	-0.272	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-1.159	-0.0007	-2.5 to 2.5	Pass
				0	3.85	1.373	0.0008	-2.5 to 2.5	Pass
				10	3.85	1.202	0.0007	-2.5 to 2.5	Pass

				30	3.85	-5.293	-0.0031	-2.5 to 2.5	Pass
				40	3.85	0.629	0.0004	-2.5 to 2.5	Pass
				50	3.85	-1.259	-0.0007	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	5.021	0.0029	-2.5 to 2.5	Pass
					3.85	8.497	0.0049	-2.5 to 2.5	Pass
					4.43	-0.787	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	2.489	0.0014	-2.5 to 2.5	Pass
				-20	3.85	4.635	0.0027	-2.5 to 2.5	Pass
				-10	3.85	4.191	0.0024	-2.5 to 2.5	Pass
				0	3.85	3.233	0.0019	-2.5 to 2.5	Pass
				10	3.85	2.589	0.0015	-2.5 to 2.5	Pass
				30	3.85	2.332	0.0013	-2.5 to 2.5	Pass
				40	3.85	-0.215	-0.0001	-2.5 to 2.5	Pass
				50	3.85	3.047	0.0018	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	1.488	0.0009	-2.5 to 2.5	Pass
					3.85	3.505	0.0020	-2.5 to 2.5	Pass
					4.43	1.659	0.0010	-2.5 to 2.5	Pass
				-30	3.85	-1.159	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	1.173	0.0007	-2.5 to 2.5	Pass
				-10	3.85	1.373	0.0008	-2.5 to 2.5	Pass
				0	3.85	1.144	0.0007	-2.5 to 2.5	Pass
				10	3.85	1.645	0.0009	-2.5 to 2.5	Pass
				30	3.85	-0.114	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.529	-0.0003	-2.5 to 2.5	Pass
				50	3.85	-1.087	-0.0006	-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

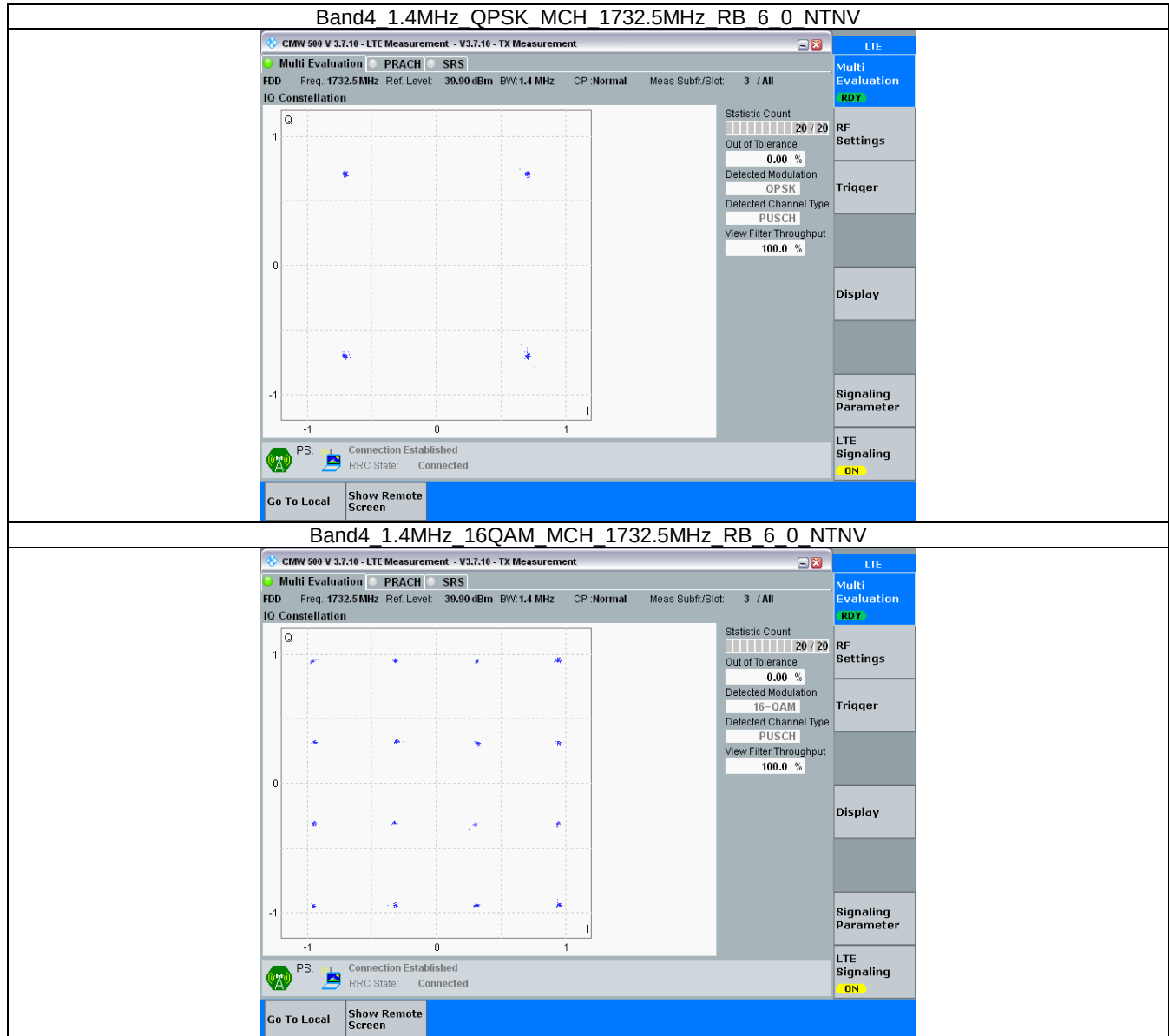
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

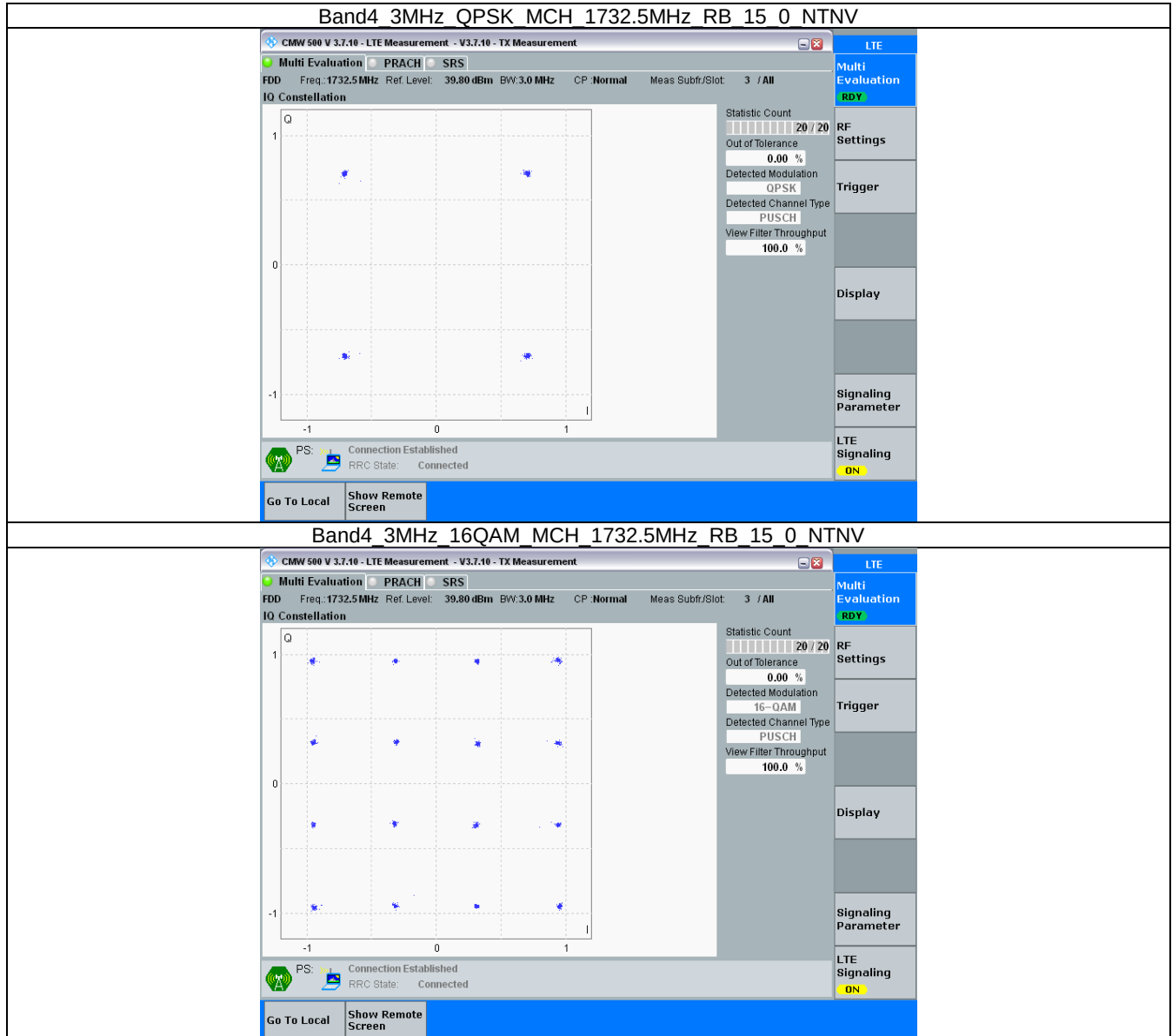
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

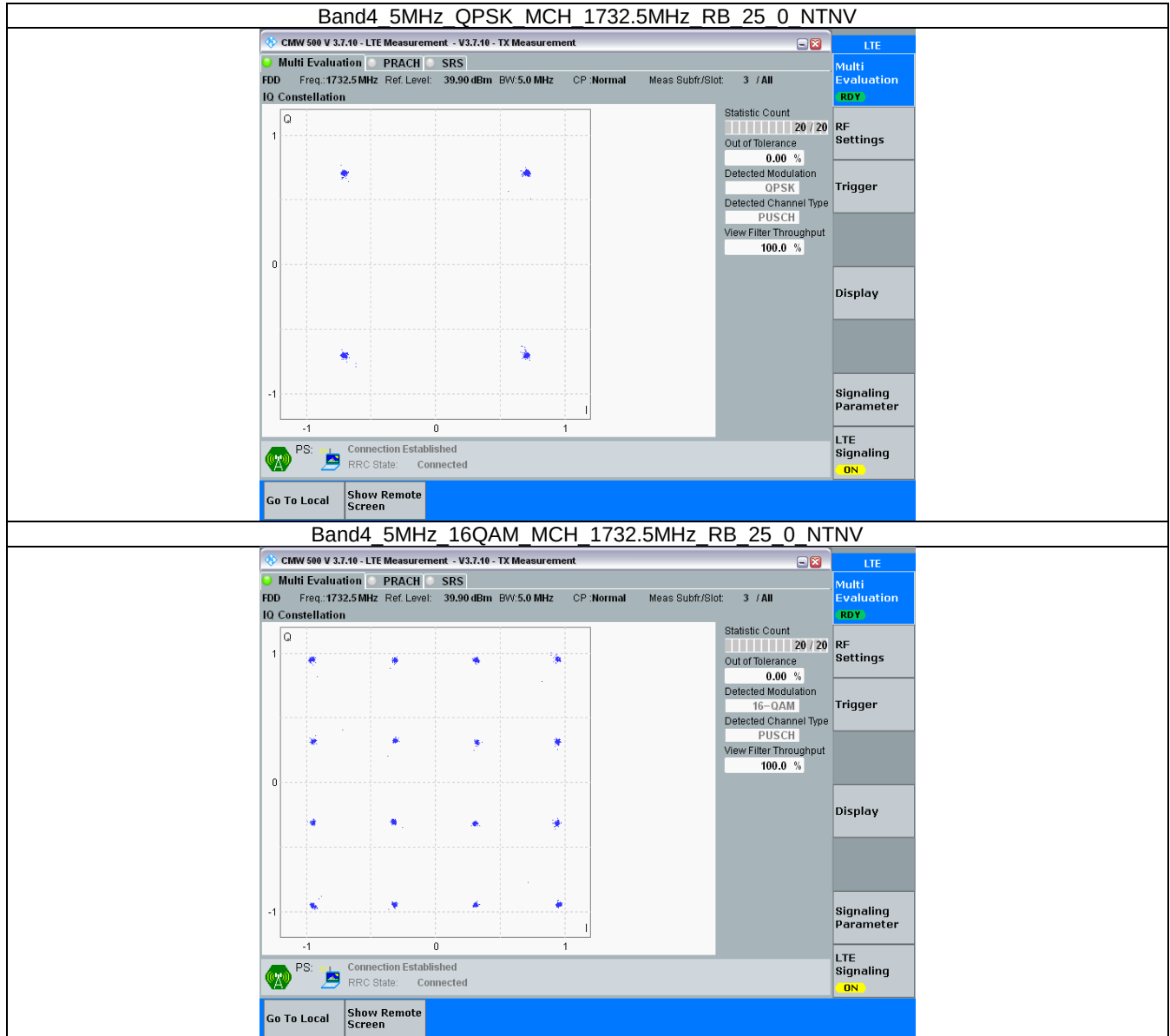
3.2.1 B4_1.4MHz



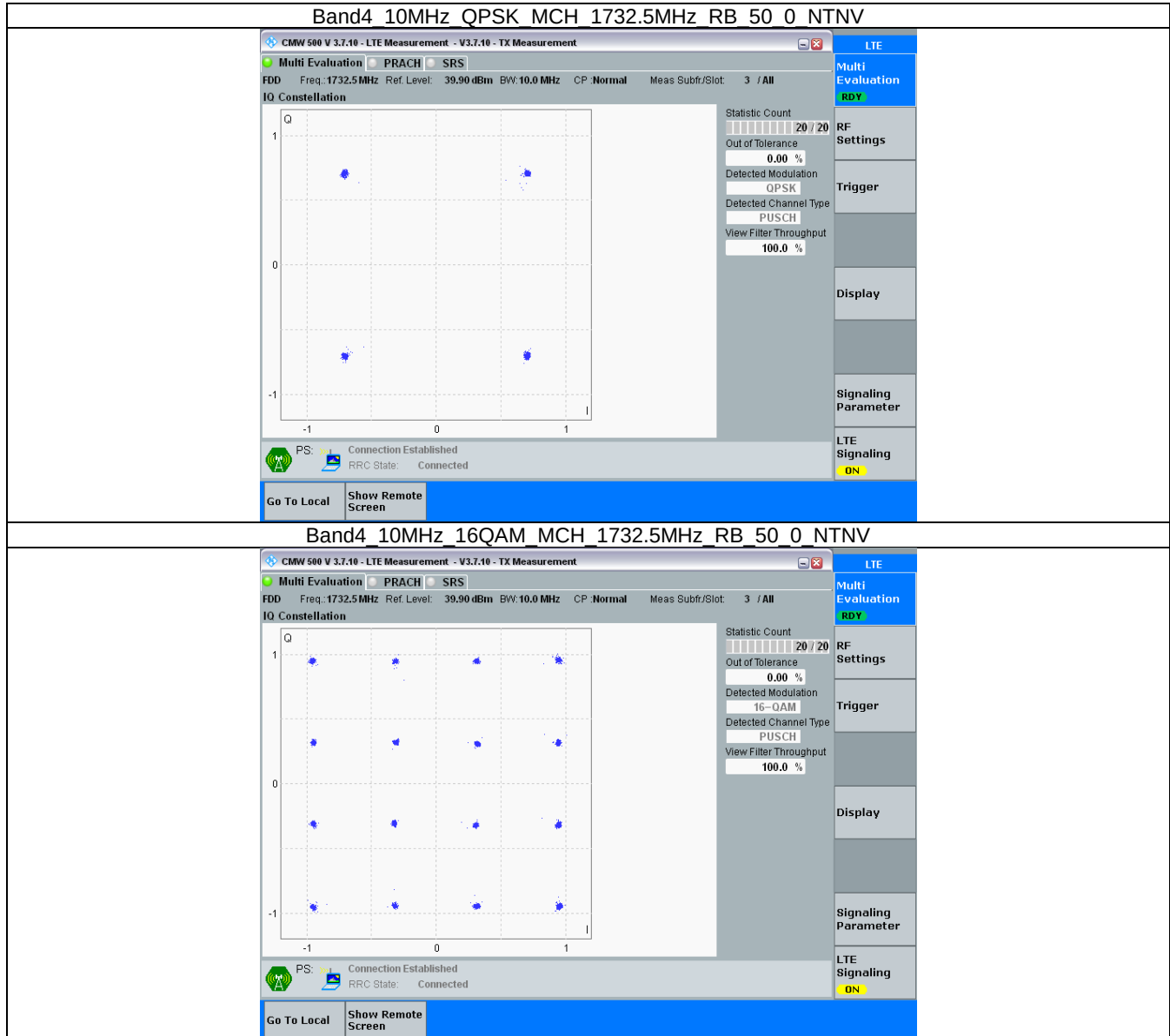
3.2.2 B4_3MHz



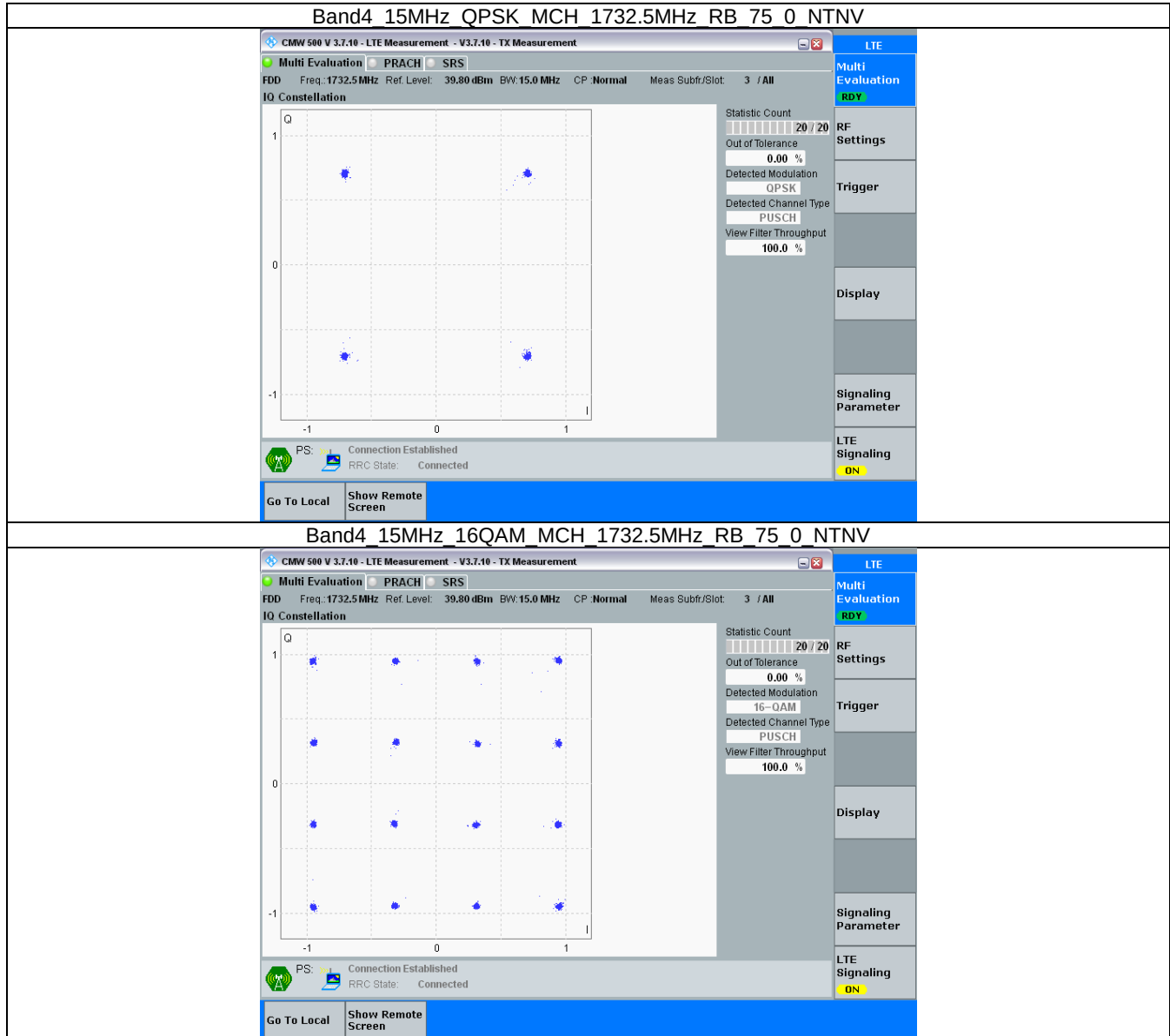
3.2.3 B4_5MHz



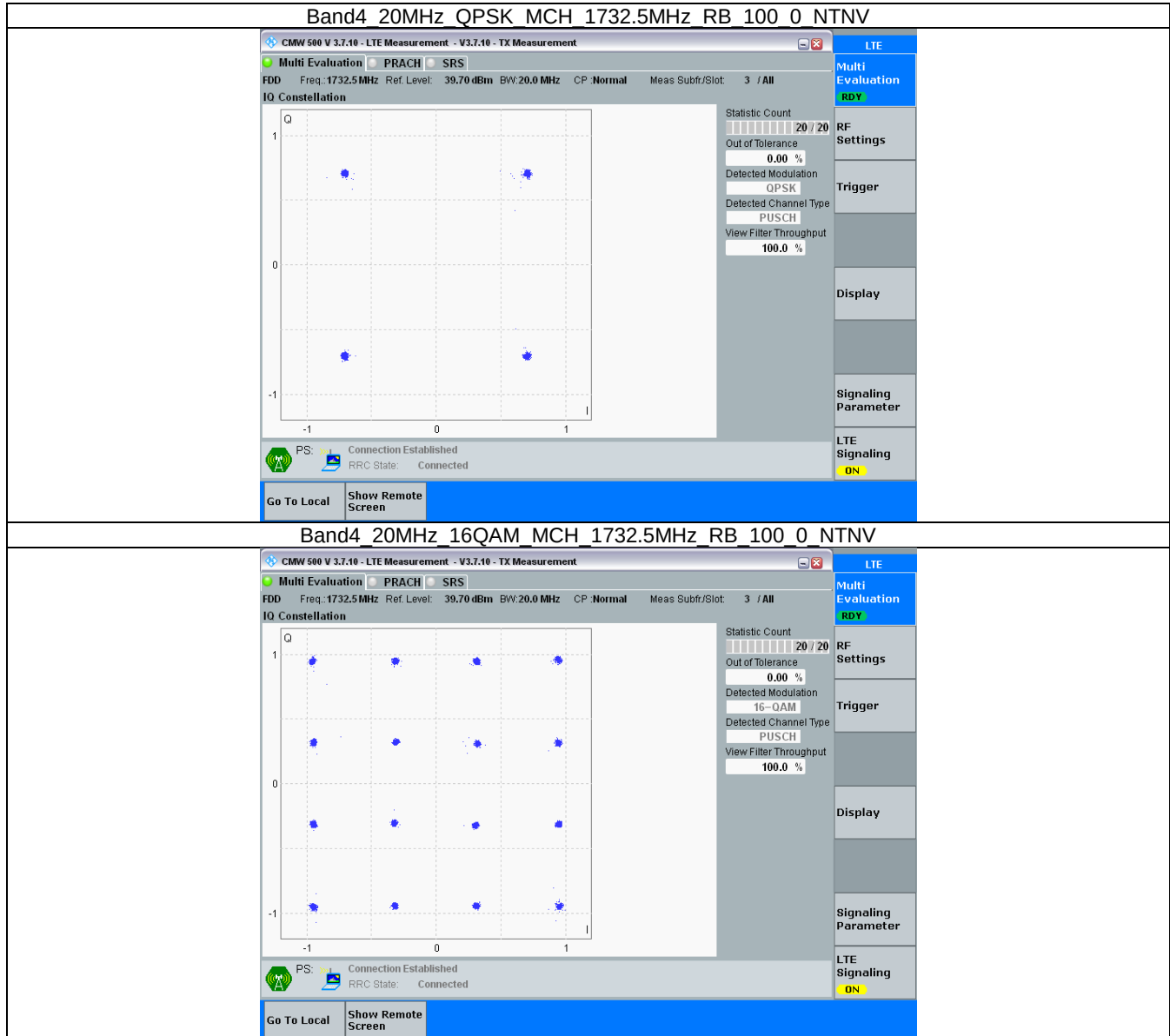
3.2.4 B4_10MHz



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 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.085	/	Pass
		1732.5	6	0	1.086	/	Pass
		1754.3	6	0	1.087	/	Pass
	16QAM	1710.7	6	0	1.081	/	Pass
		1732.5	6	0	1.087	/	Pass
		1754.3	6	0	1.083	/	Pass
3	QPSK	1711.5	15	0	2.689	/	Pass
		1732.5	15	0	2.692	/	Pass
		1753.5	15	0	2.681	/	Pass
	16QAM	1711.5	15	0	2.682	/	Pass
		1732.5	15	0	2.683	/	Pass
		1753.5	15	0	2.681	/	Pass
5	QPSK	1712.5	25	0	4.503	/	Pass
		1732.5	25	0	4.511	/	Pass
		1752.5	25	0	4.532	/	Pass
	16QAM	1712.5	25	0	4.504	/	Pass
		1732.5	25	0	4.528	/	Pass
		1752.5	25	0	4.505	/	Pass
10	QPSK	1715	50	0	8.966	/	Pass
		1732.5	50	0	8.940	/	Pass
		1750	50	0	8.959	/	Pass
	16QAM	1715	50	0	8.963	/	Pass
		1732.5	50	0	8.968	/	Pass
		1750	50	0	8.958	/	Pass
15	QPSK	1717.5	75	0	13.457	/	Pass
		1732.5	75	0	13.411	/	Pass
		1747.5	75	0	13.442	/	Pass
	16QAM	1717.5	75	0	13.448	/	Pass
		1732.5	75	0	13.453	/	Pass
		1747.5	75	0	13.458	/	Pass
20	QPSK	1720	100	0	17.902	/	Pass
		1732.5	100	0	17.857	/	Pass
		1745	100	0	17.891	/	Pass
	16QAM	1720	100	0	17.829	/	Pass
		1732.5	100	0	17.864	/	Pass
		1745	100	0	17.891	/	Pass

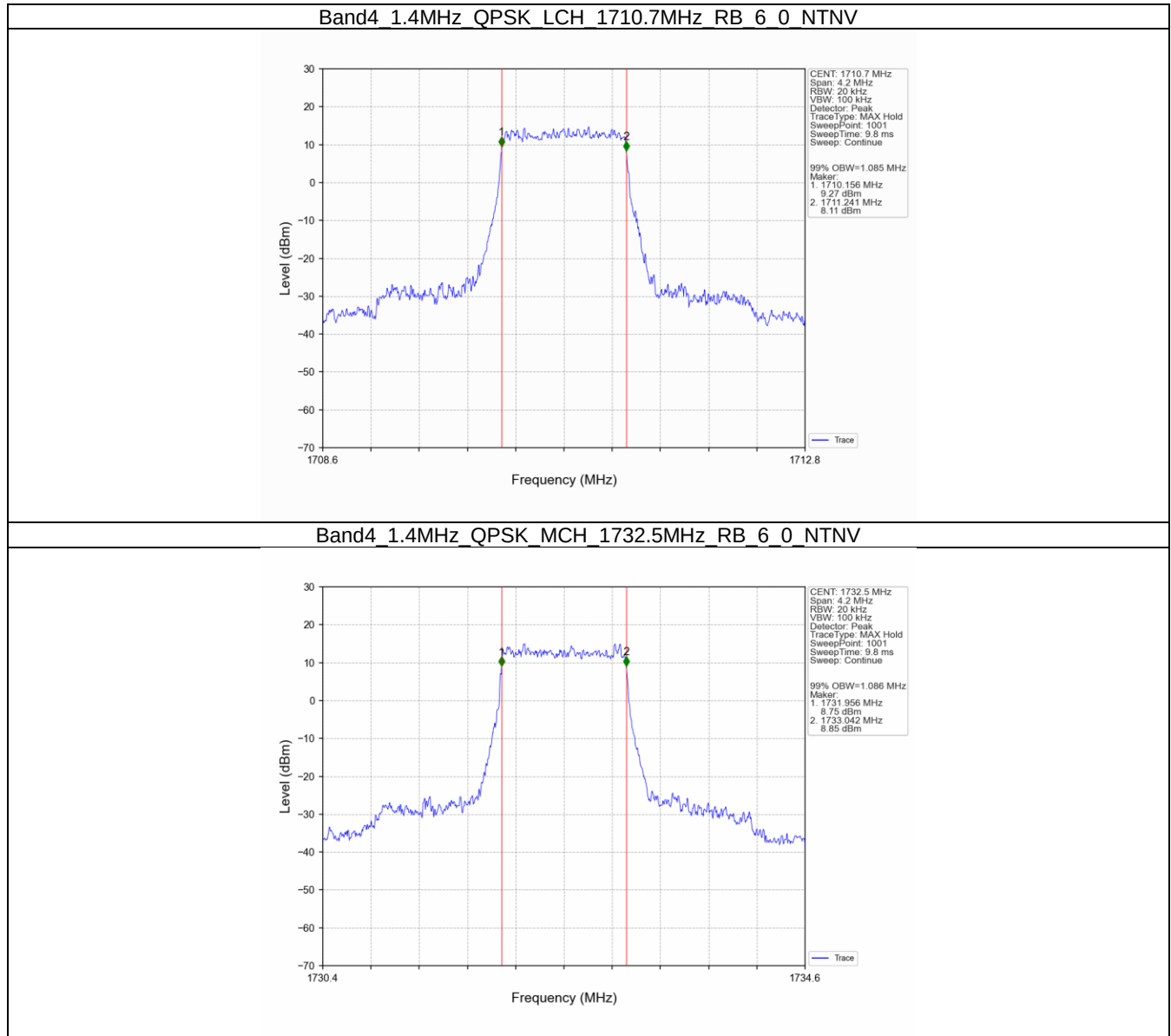
4.1.2 Band4_XDB

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	1.274	/	Pass
		1732.5	6	0	1.249	/	Pass
		1754.3	6	0	1.287	/	Pass
	16QAM	1710.7	6	0	1.239	/	Pass
		1732.5	6	0	1.276	/	Pass
		1754.3	6	0	1.250	/	Pass
3	QPSK	1711.5	15	0	2.905	/	Pass

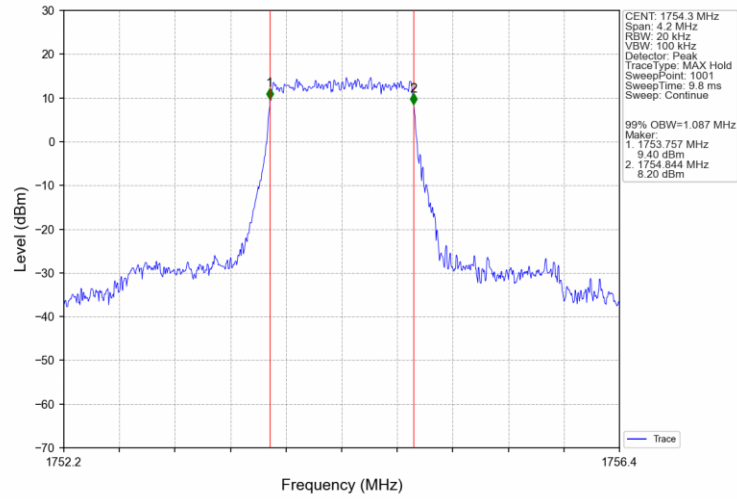
	16QAM	1732.5	15	0	2.874	/	Pass
		1753.5	15	0	2.881	/	Pass
		1711.5	15	0	2.879	/	Pass
		1732.5	15	0	2.894	/	Pass
		1753.5	15	0	2.898	/	Pass
5	QPSK	1712.5	25	0	4.966	/	Pass
		1732.5	25	0	4.946	/	Pass
		1752.5	25	0	5.021	/	Pass
	16QAM	1712.5	25	0	4.994	/	Pass
		1732.5	25	0	4.945	/	Pass
		1752.5	25	0	5.002	/	Pass
10	QPSK	1715	50	0	9.633	/	Pass
		1732.5	50	0	9.557	/	Pass
		1750	50	0	9.635	/	Pass
	16QAM	1715	50	0	9.621	/	Pass
		1732.5	50	0	9.601	/	Pass
		1750	50	0	9.614	/	Pass
15	QPSK	1717.5	75	0	14.580	/	Pass
		1732.5	75	0	14.416	/	Pass
		1747.5	75	0	14.625	/	Pass
	16QAM	1717.5	75	0	14.509	/	Pass
		1732.5	75	0	14.470	/	Pass
		1747.5	75	0	14.424	/	Pass
20	QPSK	1720	100	0	19.274	/	Pass
		1732.5	100	0	19.051	/	Pass
		1745	100	0	19.058	/	Pass
	16QAM	1720	100	0	19.075	/	Pass
		1732.5	100	0	19.127	/	Pass
		1745	100	0	19.113	/	Pass

4.2 Test Graph

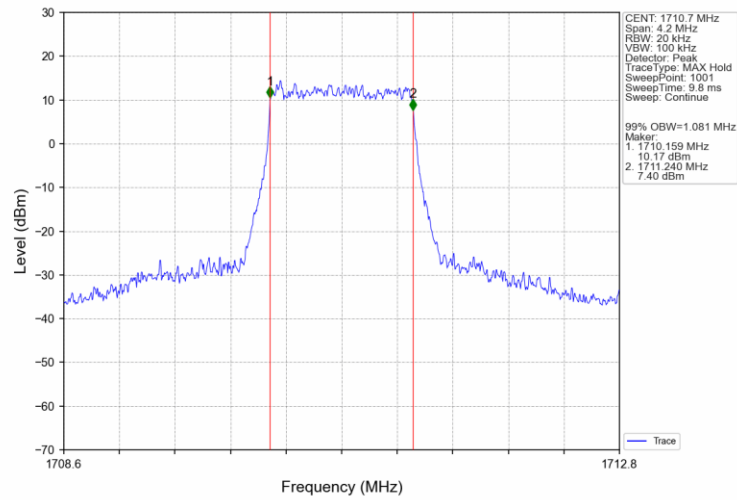
4.2.1 Band4_OBW



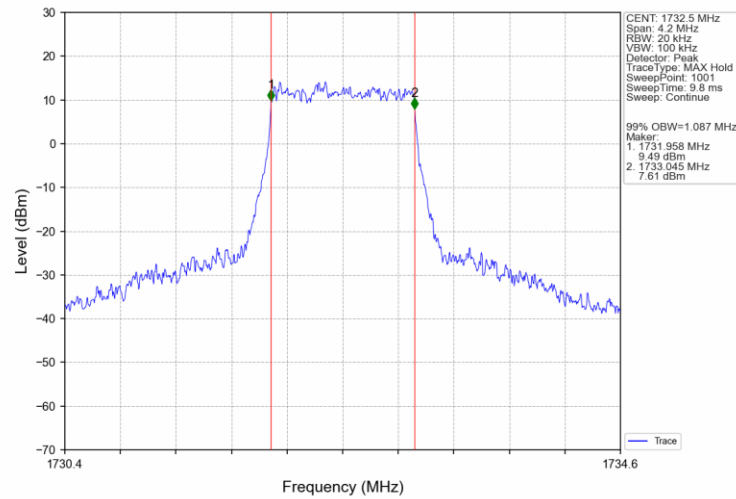
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTV



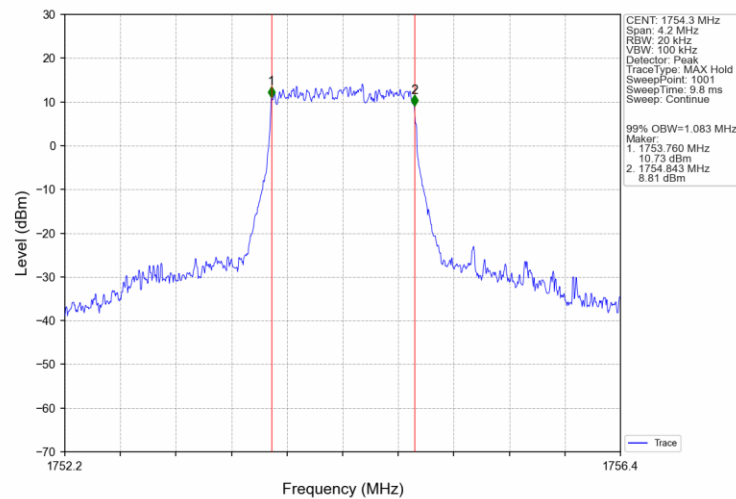
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTV



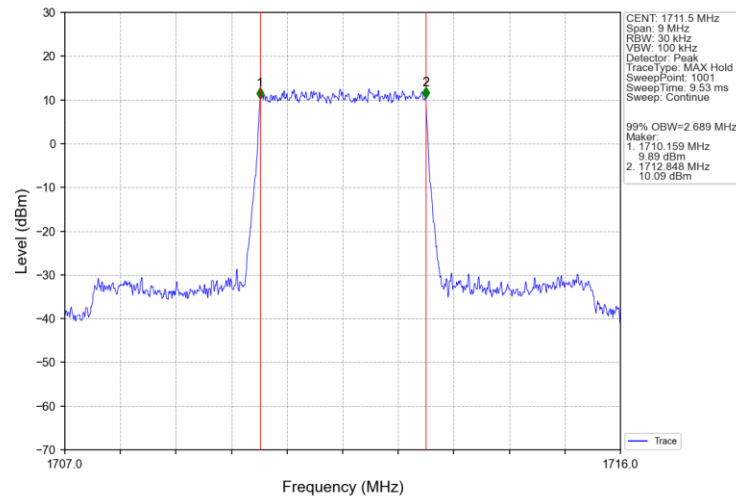
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



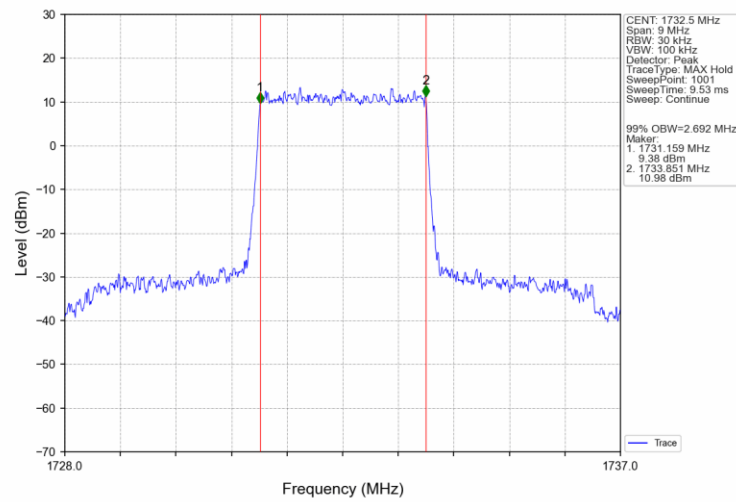
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



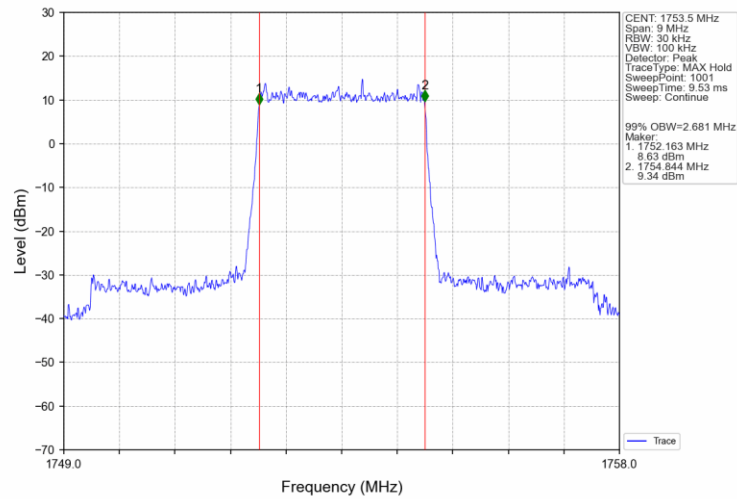
Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTV



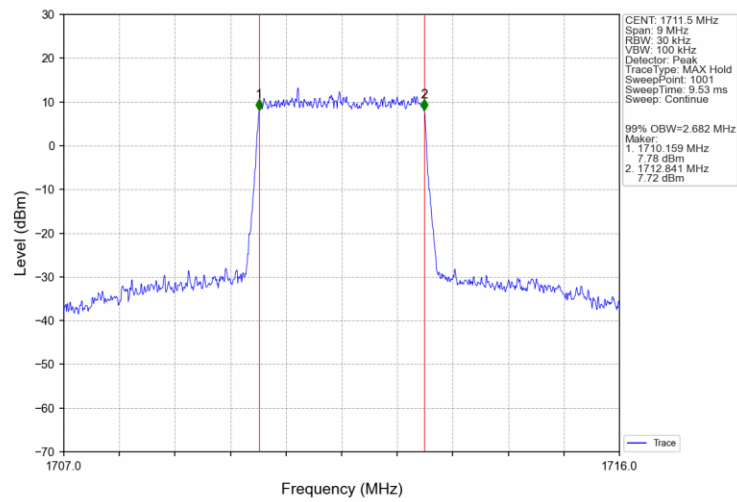
Band4 3MHz QPSK MCH 1732.5MHz RB 15 0 NTV



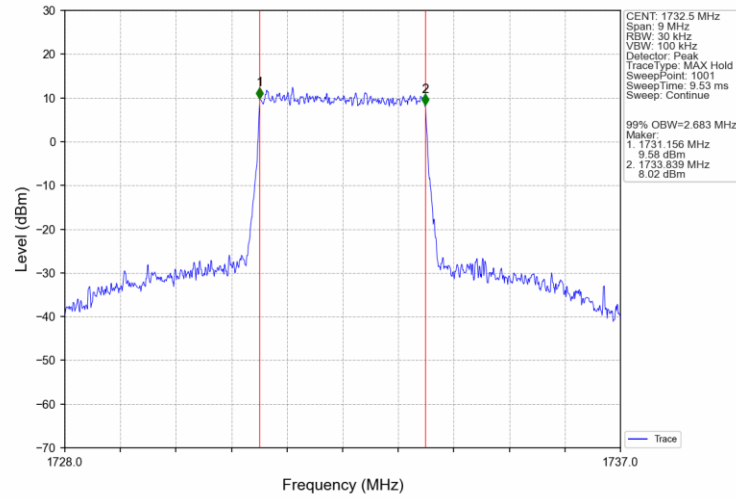
Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTV



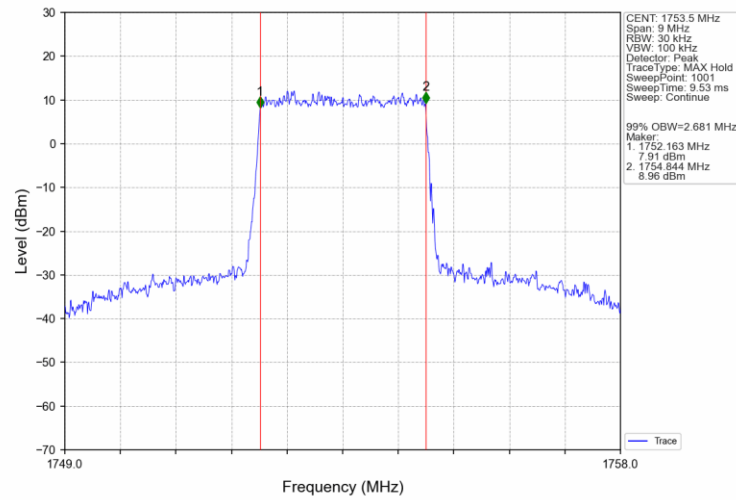
Band4 3MHz 16QAM LCH 1711.5MHz RB 15 0 NTV



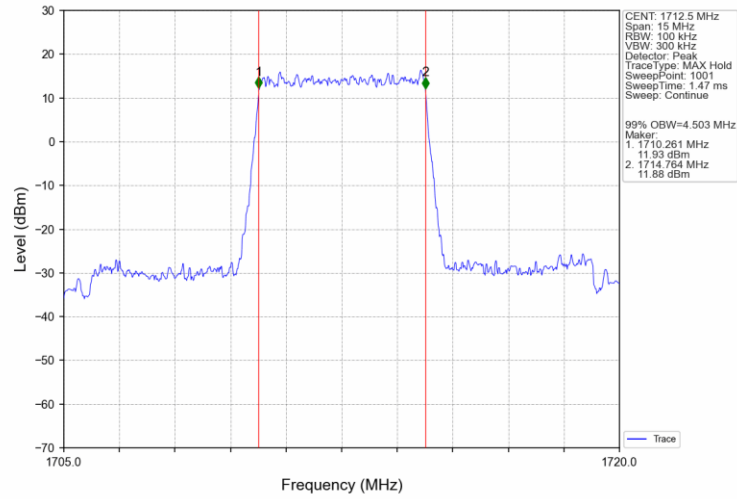
Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTNV



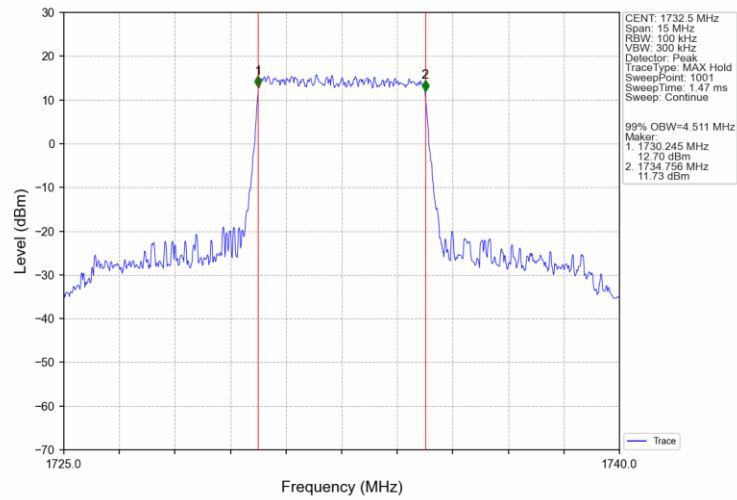
Band4 3MHz 16QAM HCH 1753.5MHz RB 15 0 NTNV



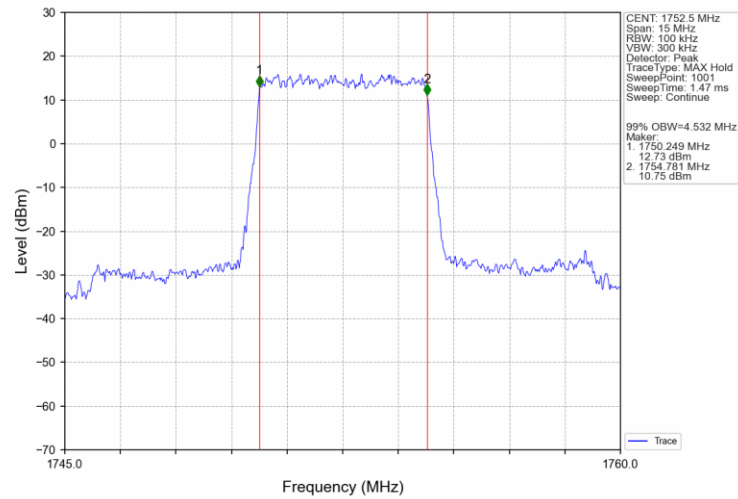
Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTV



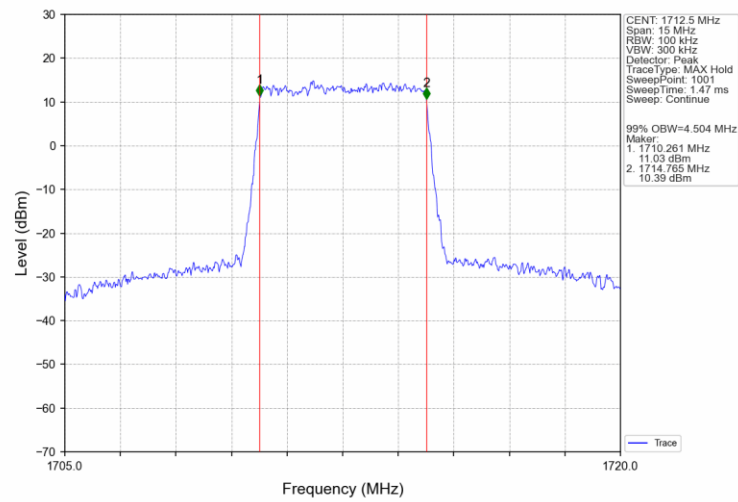
Band4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTV



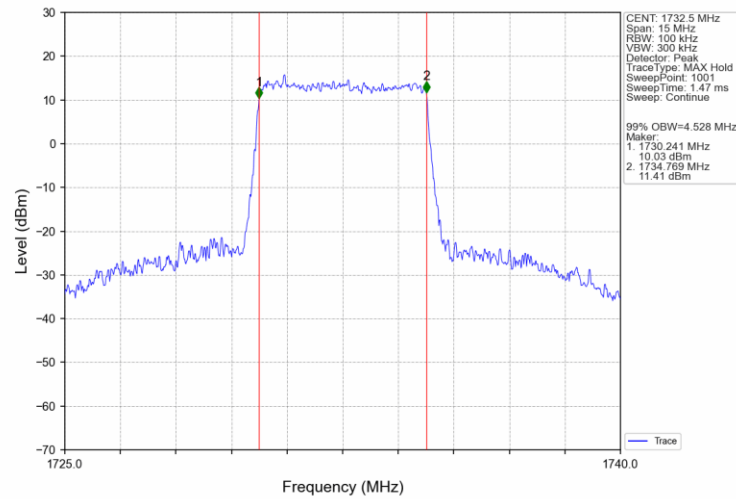
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



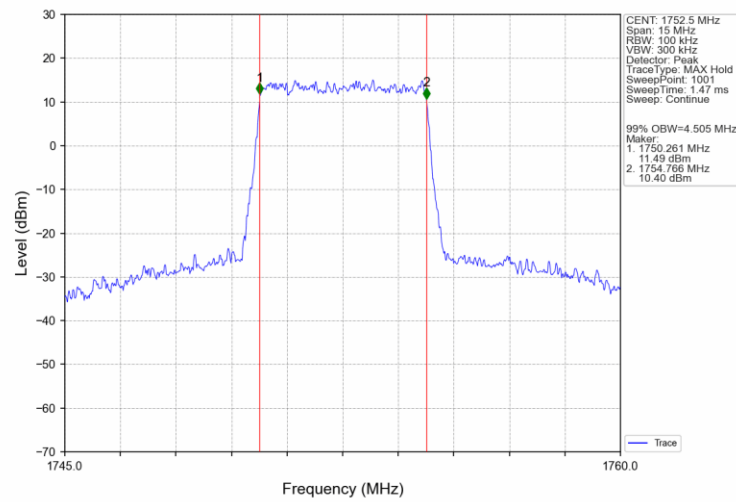
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



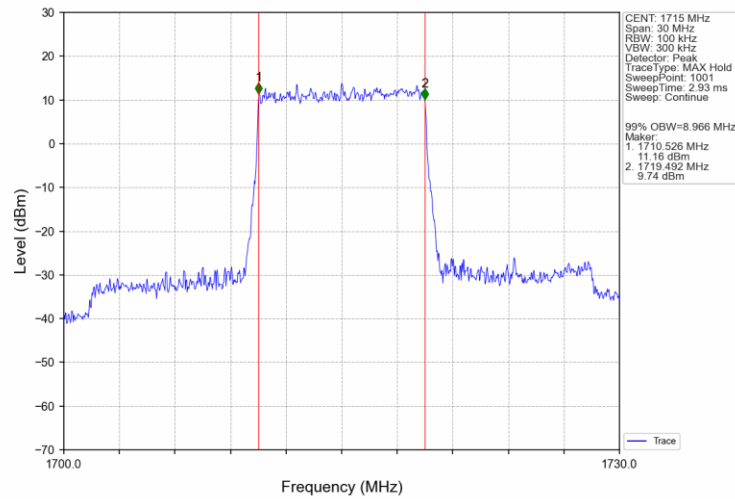
Band4 5MHz 16QAM MCH 1732.5MHz RB 25 0 NTNV



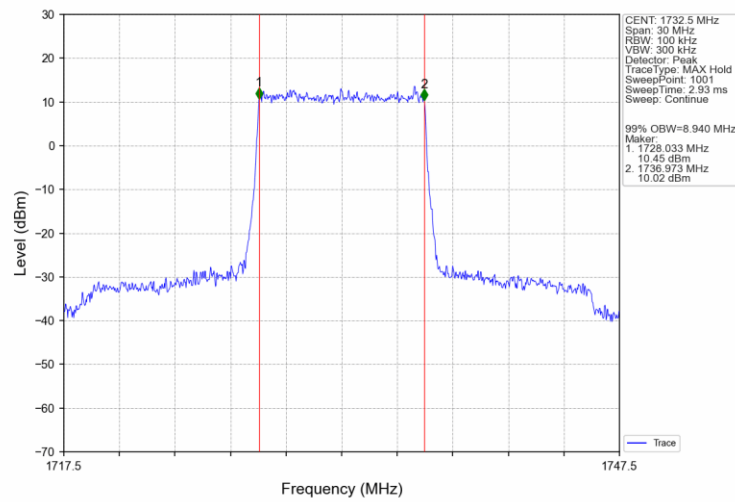
Band4 5MHz 16QAM HCH 1752.5MHz RB 25 0 NTNV



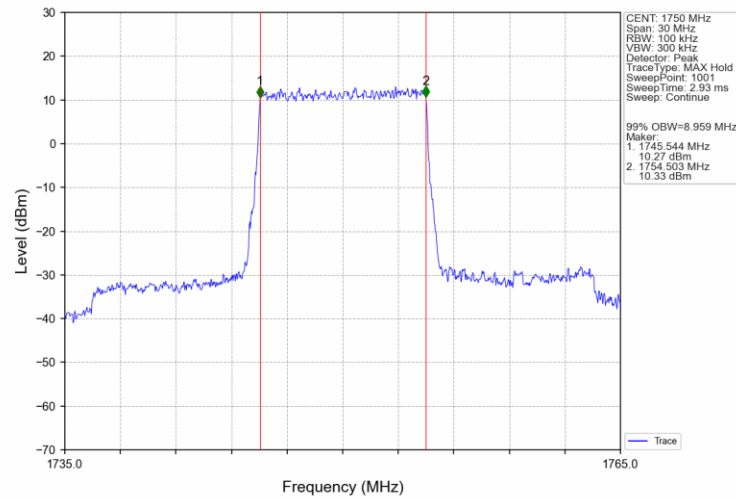
Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTNV



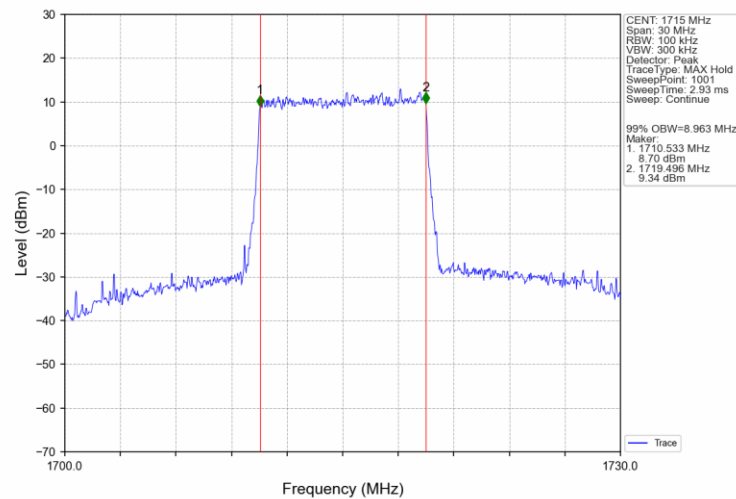
Band4 10MHz QPSK MCH 1732.5MHz RB 50 0 NTNV



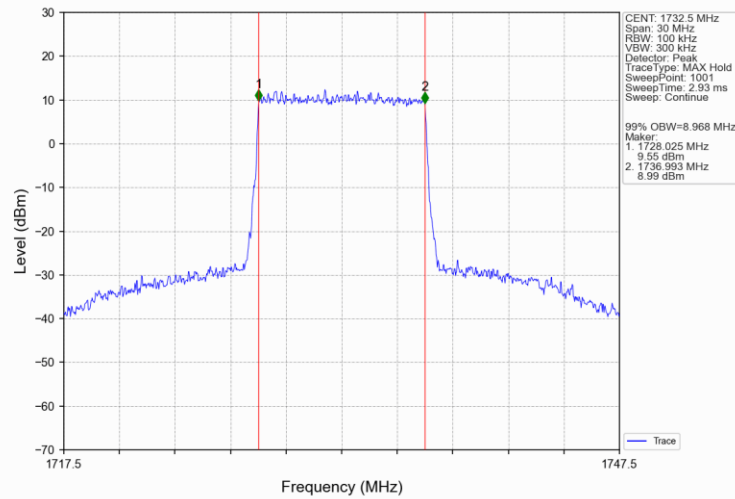
Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTN



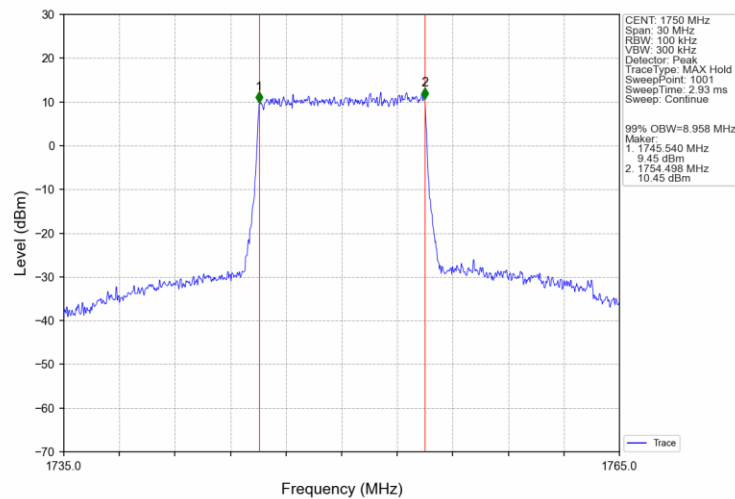
Band4 10MHz 16QAM LCH 1715MHz RB 50 0 NTN



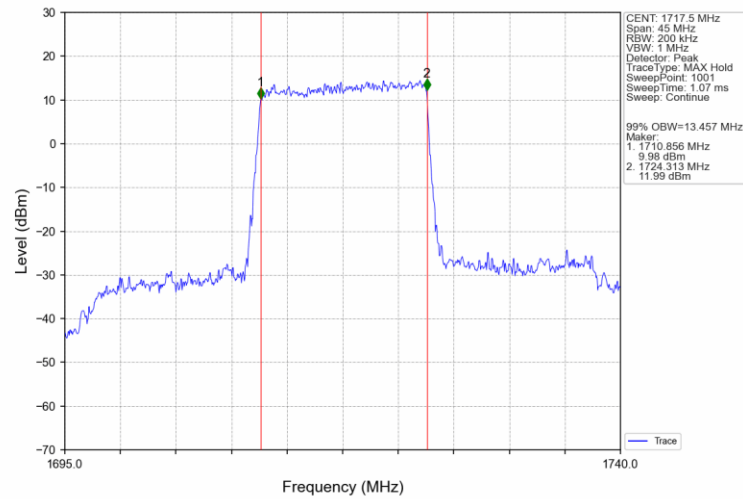
Band4 10MHz 16QAM MCH 1732.5MHz RB 50 0 NTN



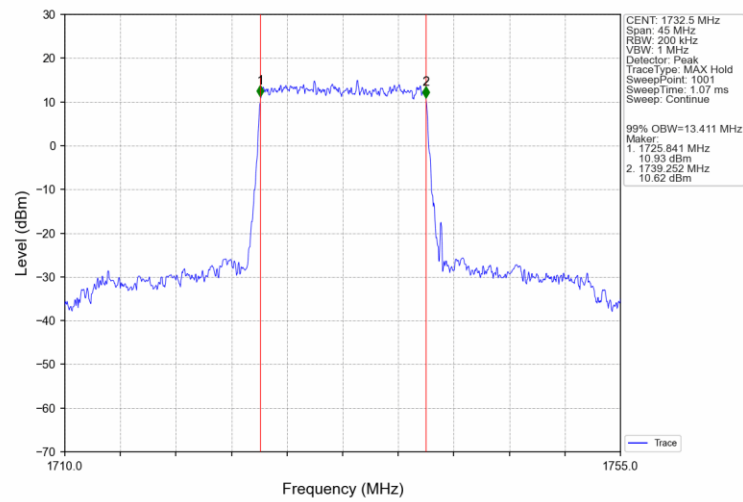
Band4 10MHz 16QAM HCH 1750MHz RB 50 0 NTN



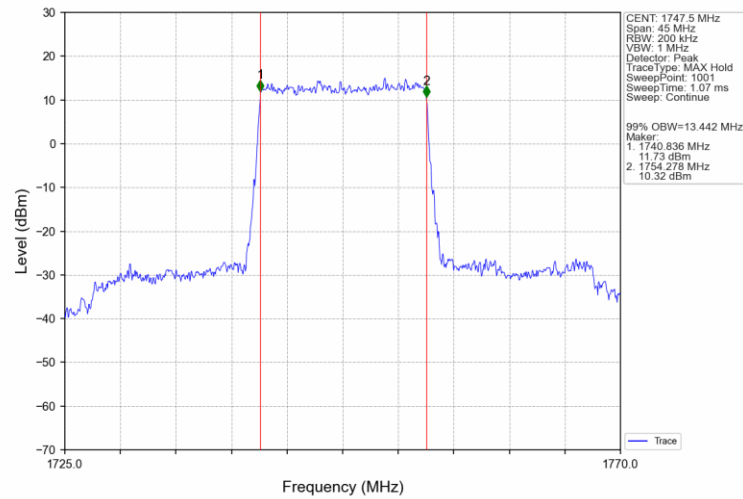
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



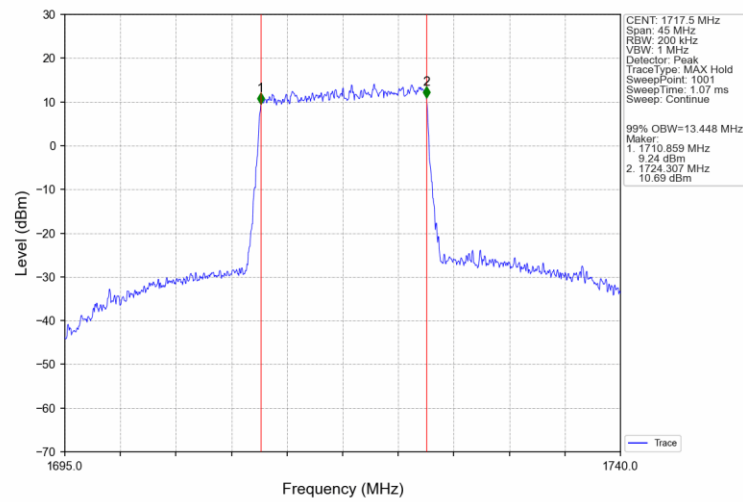
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



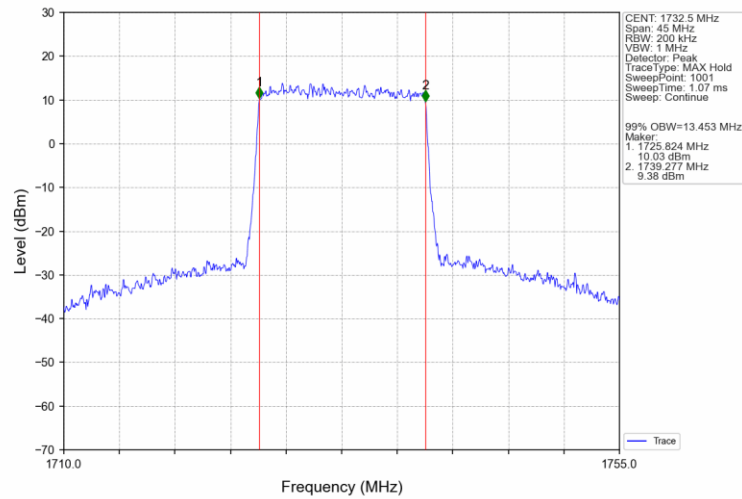
Band4 15MHz QPSK HCH 1747.5MHz RB 75 0 NTNV



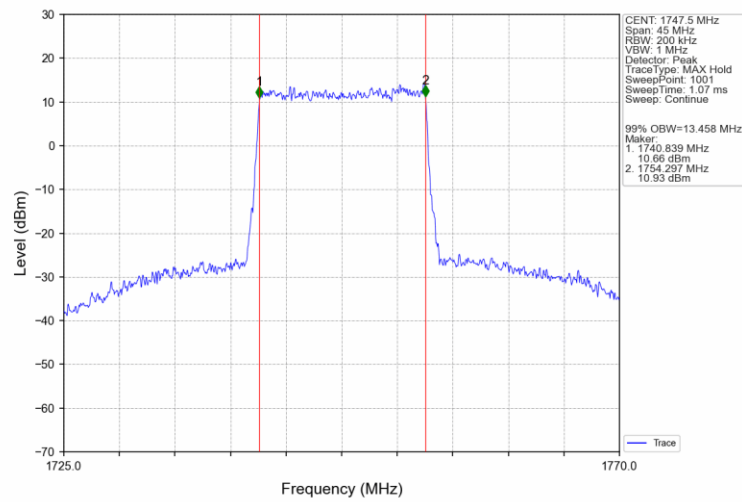
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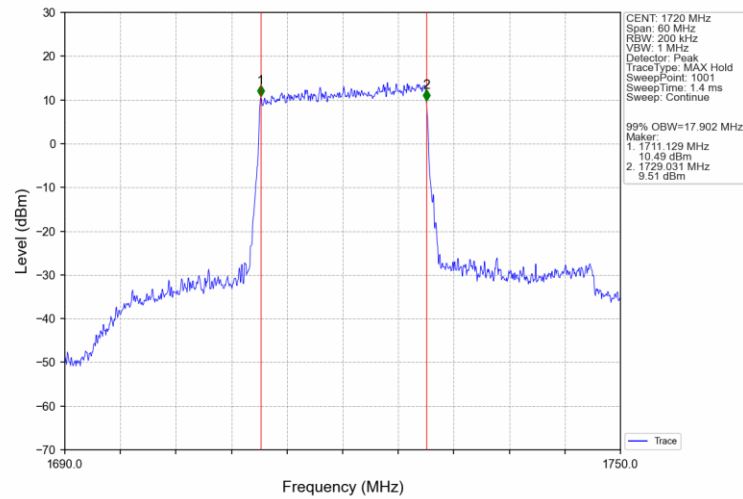
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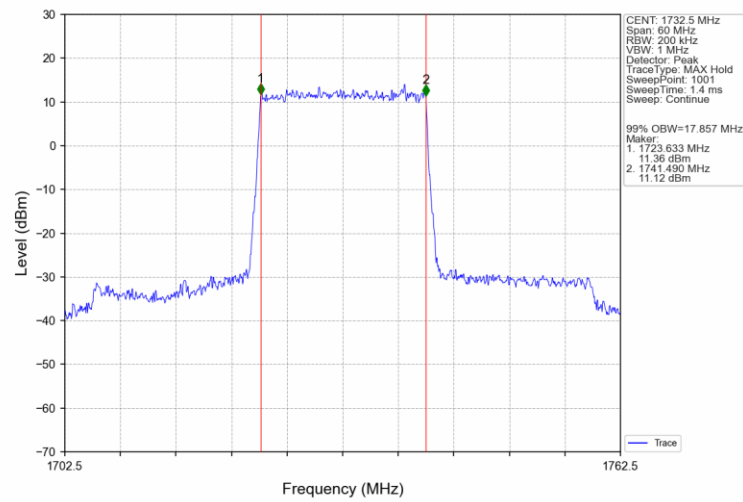
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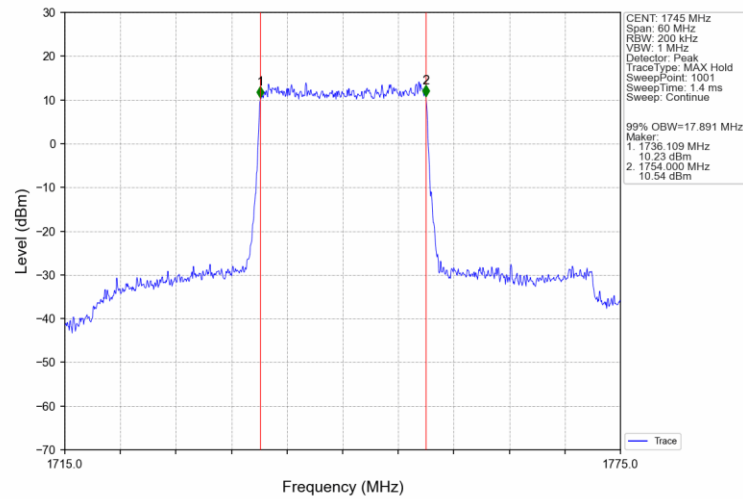
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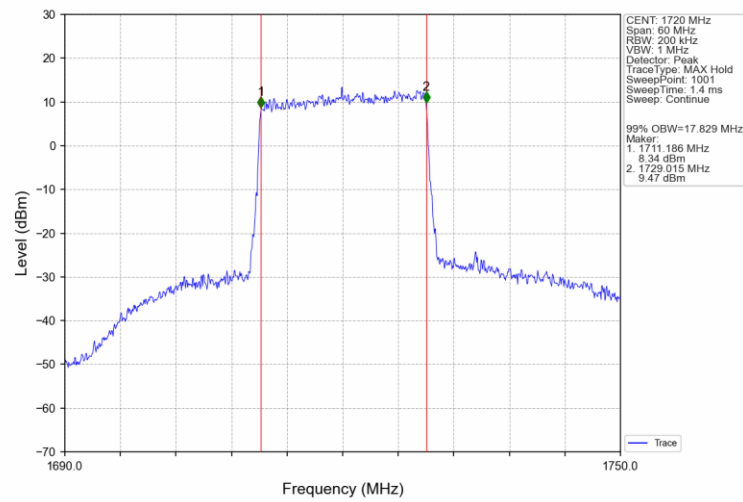
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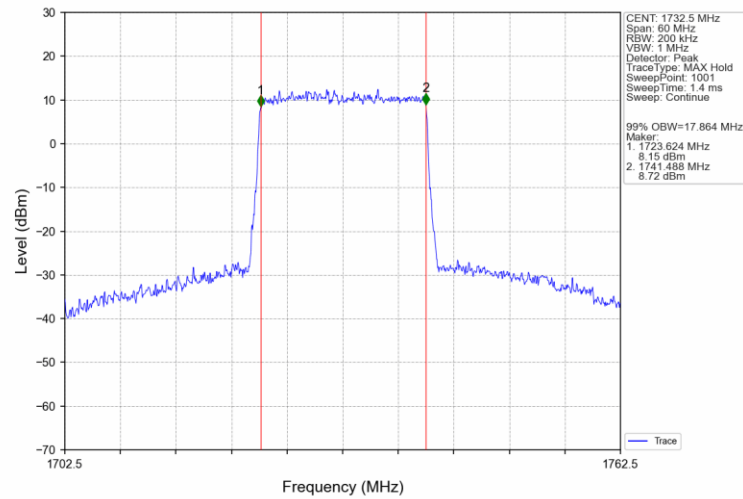
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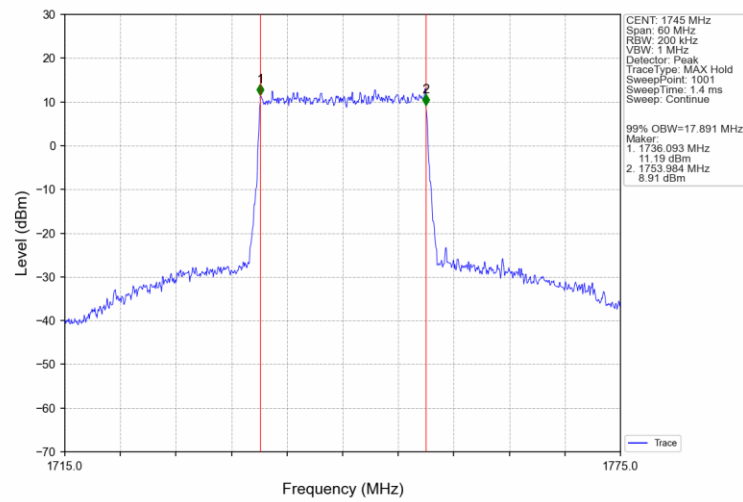
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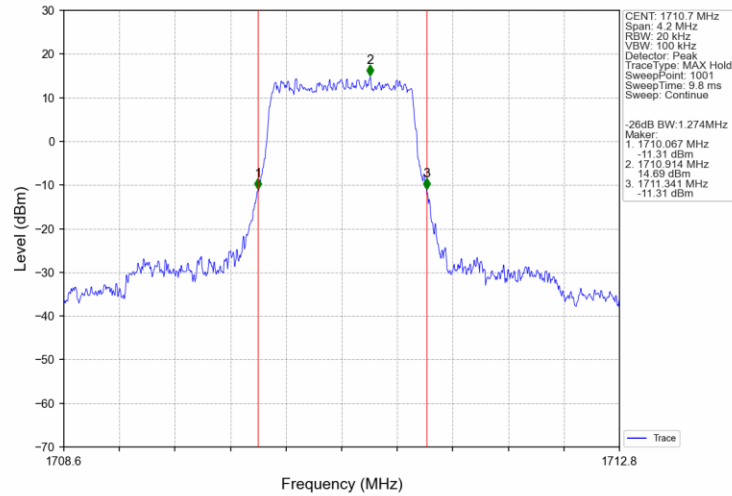


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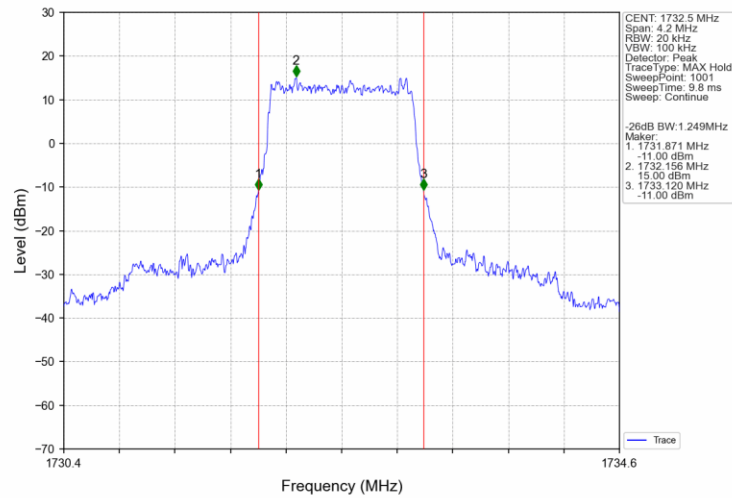


4.2.2 Band4_XDB

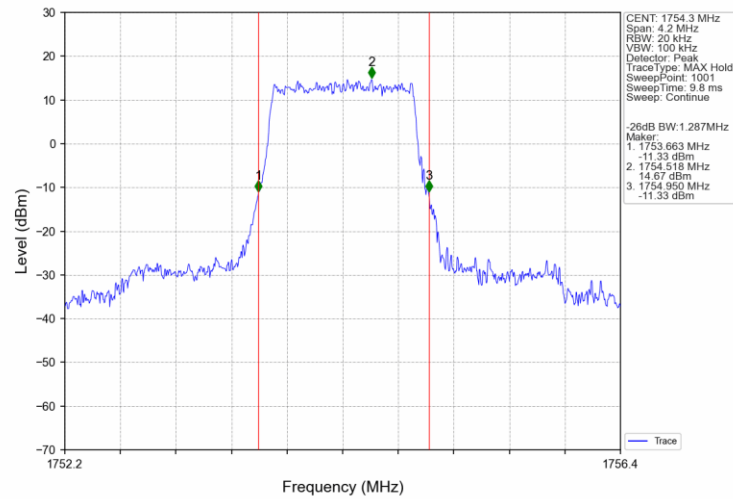
Band4 1.4MHz QPSK LCH 1710.7MHz RB 6 0 NTV



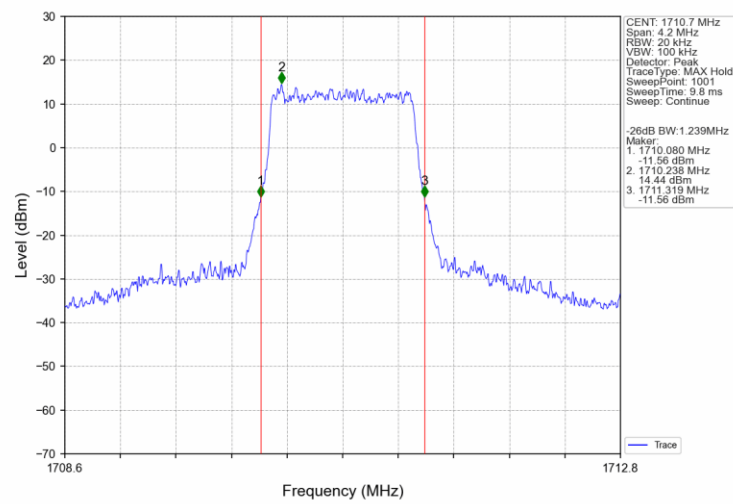
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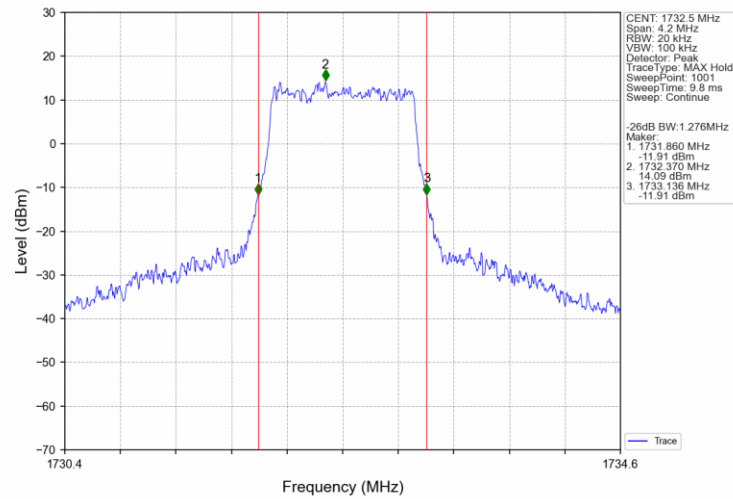
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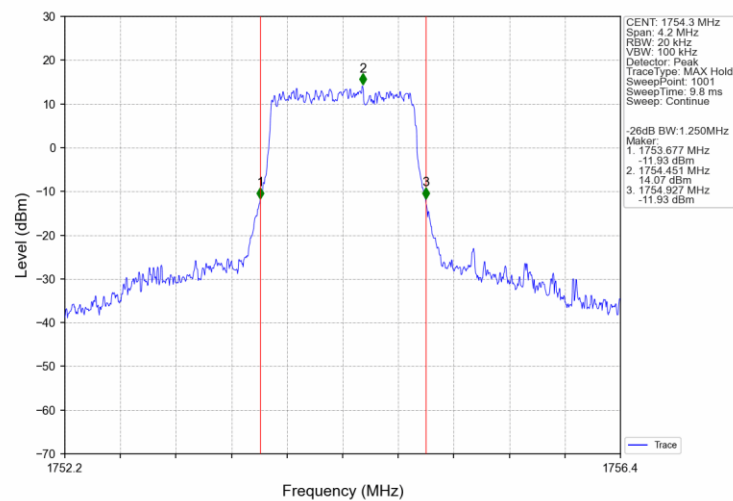
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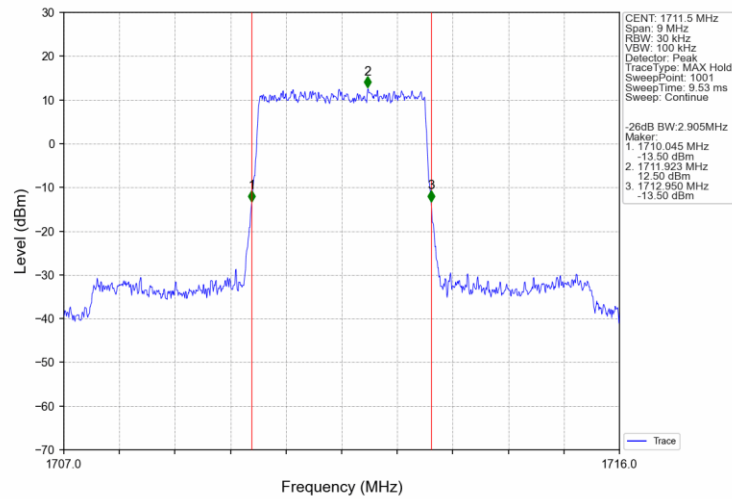
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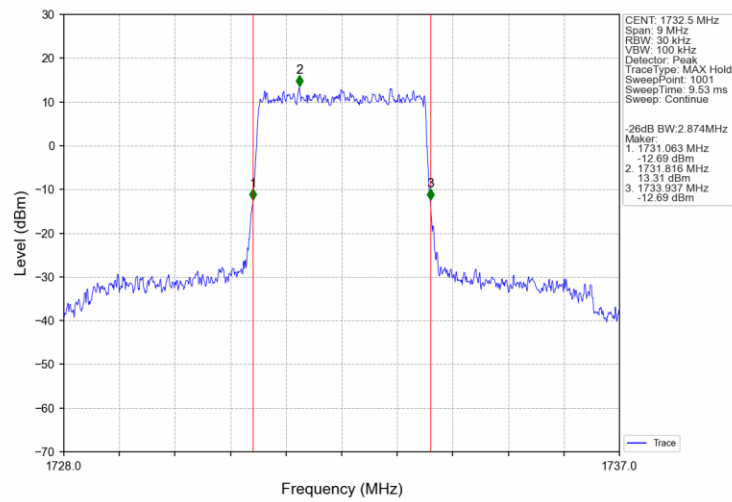
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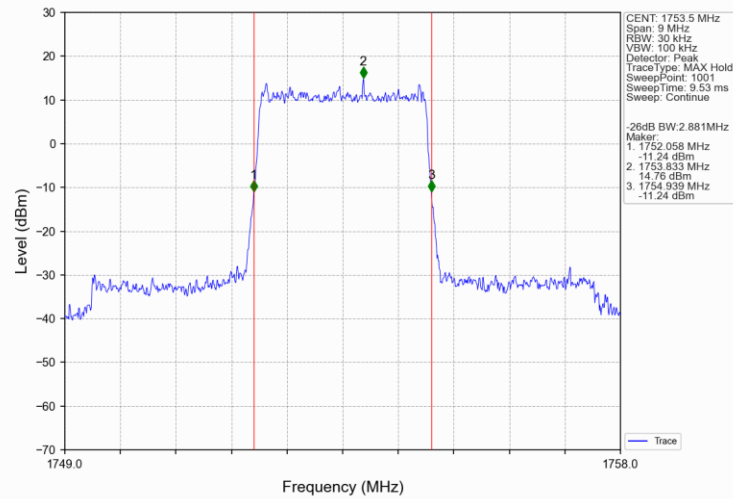
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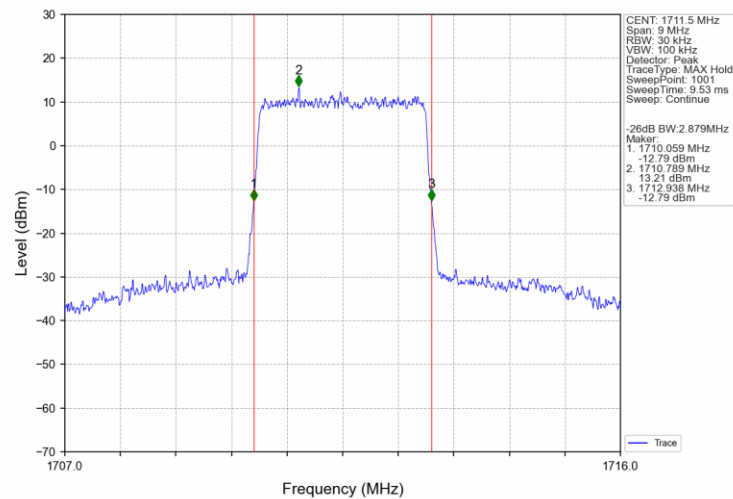
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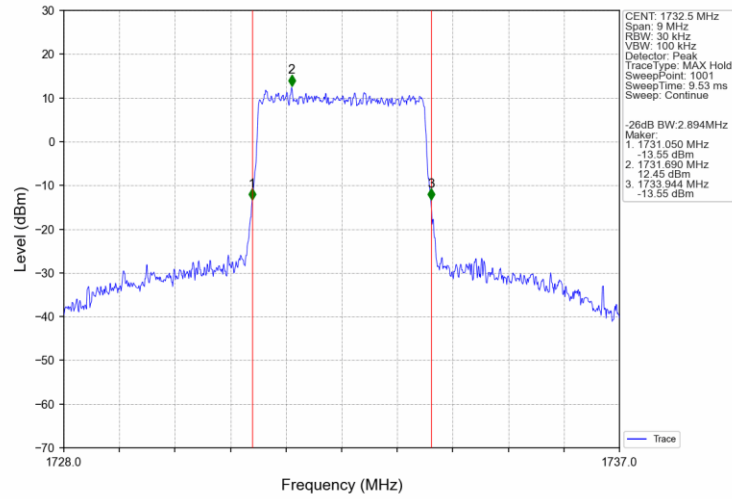
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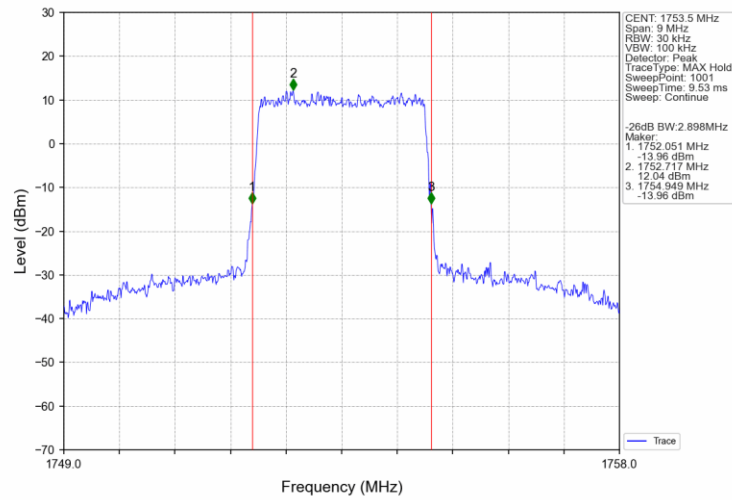
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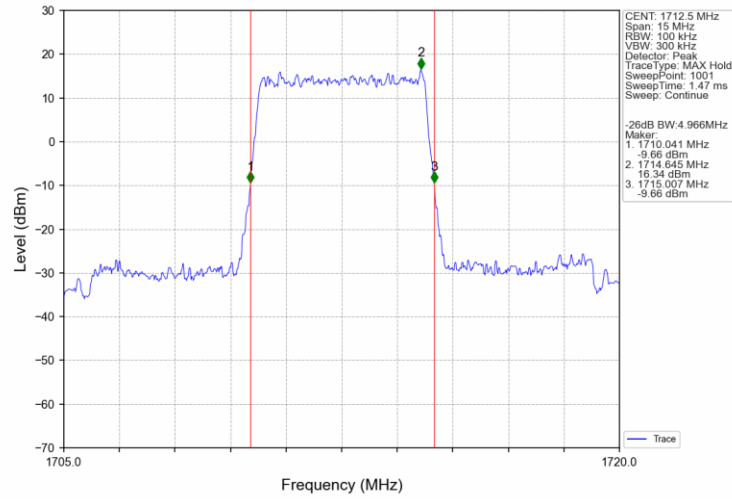
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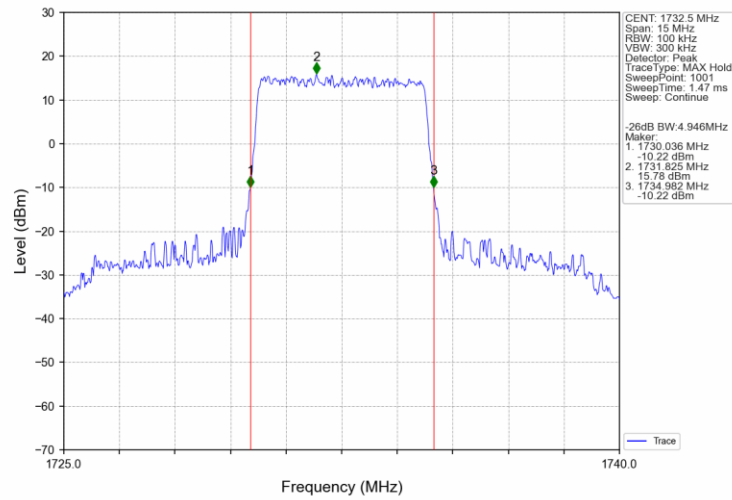
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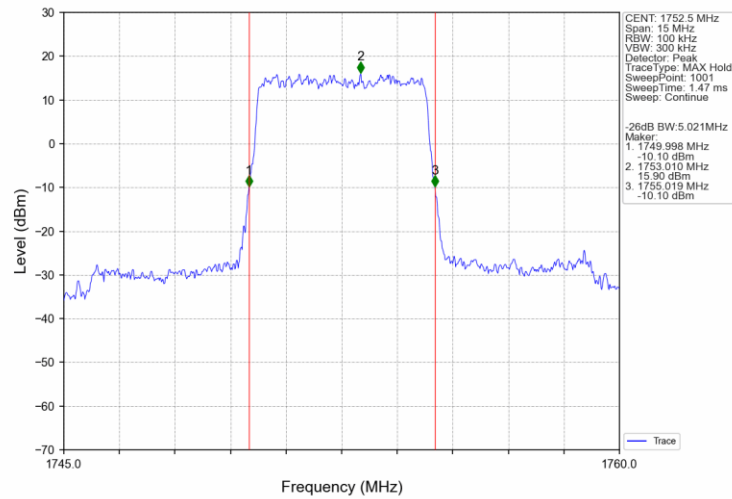
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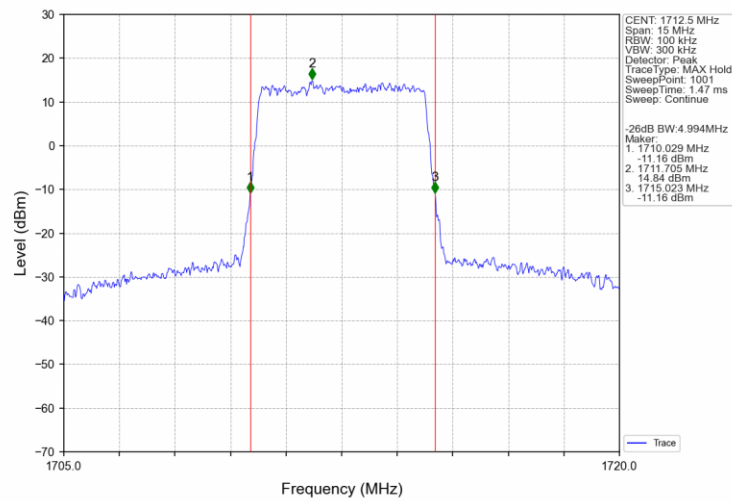
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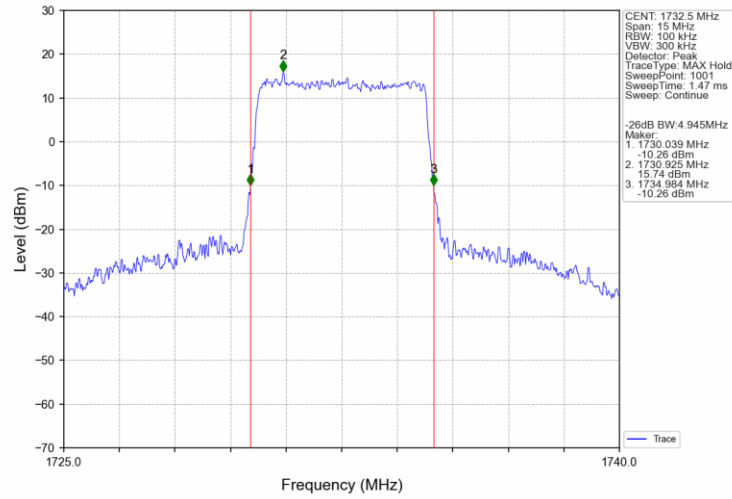
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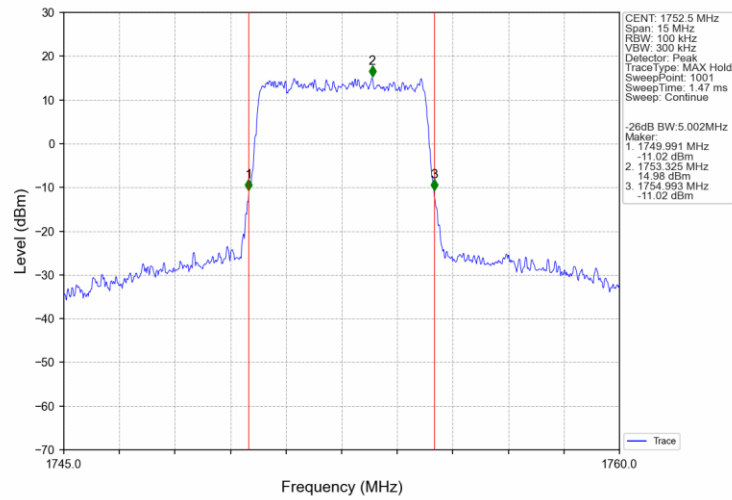
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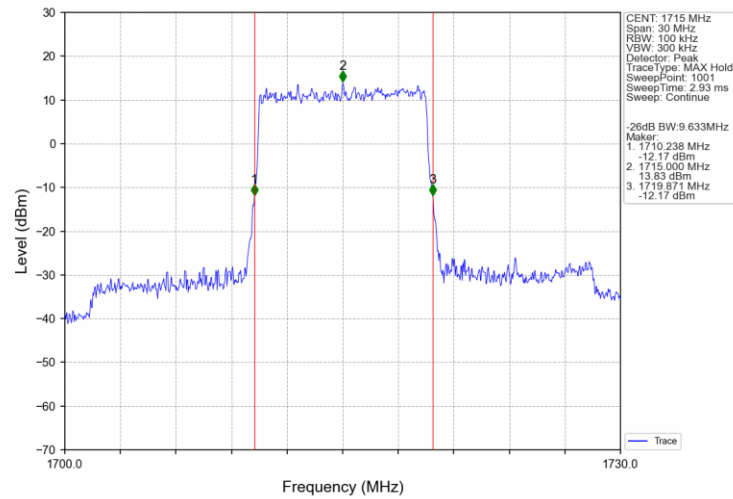
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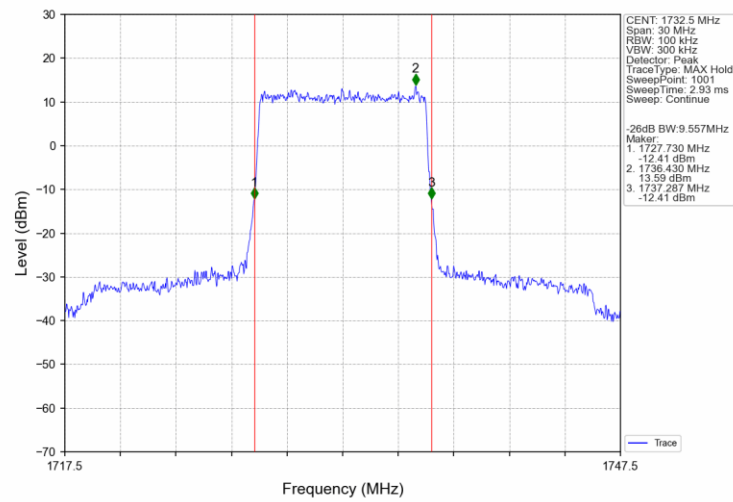
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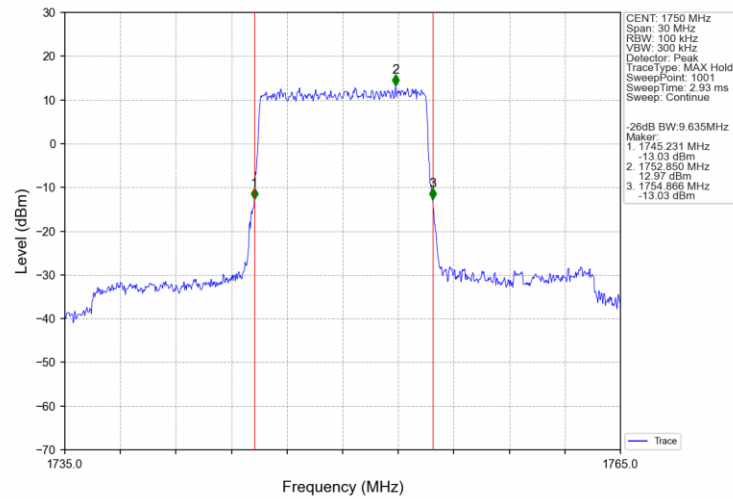
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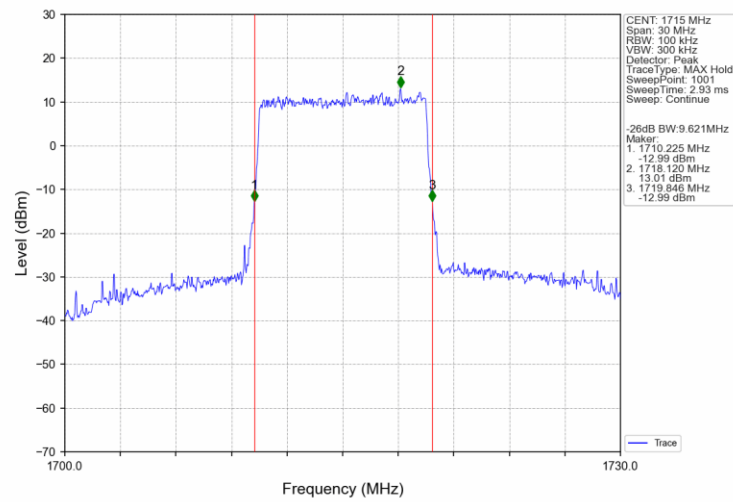
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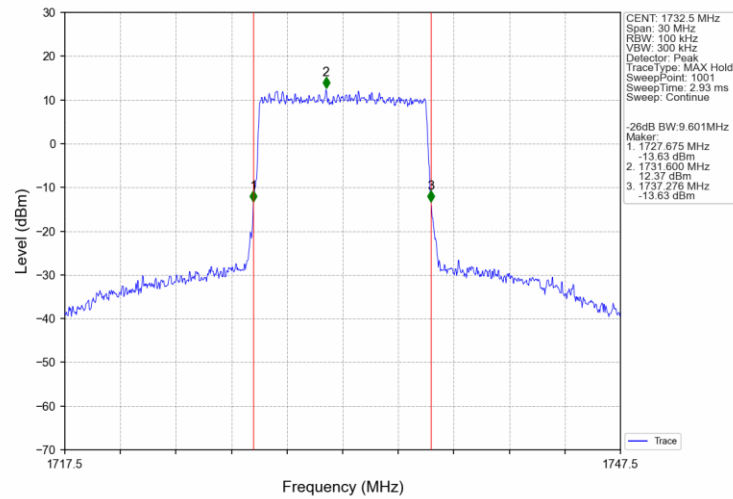
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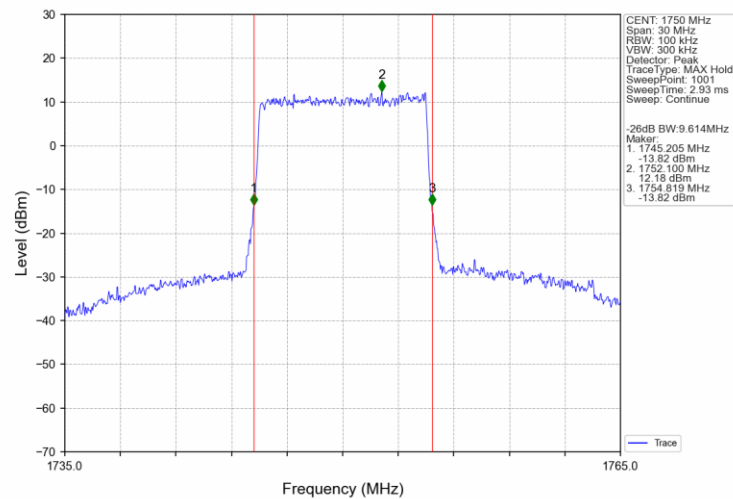
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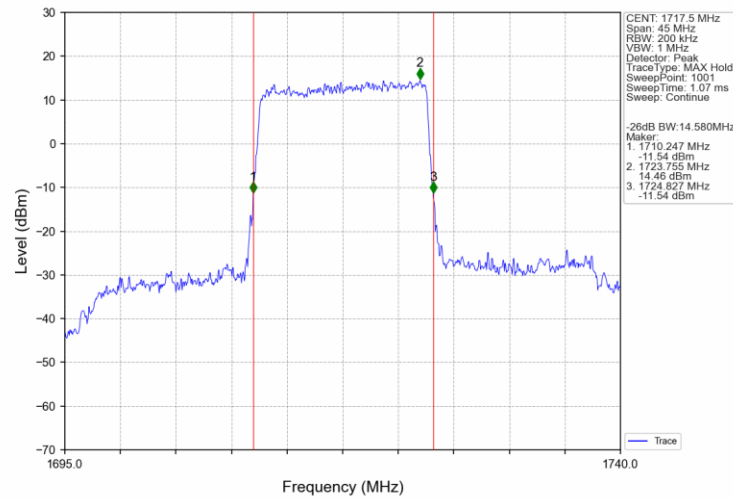
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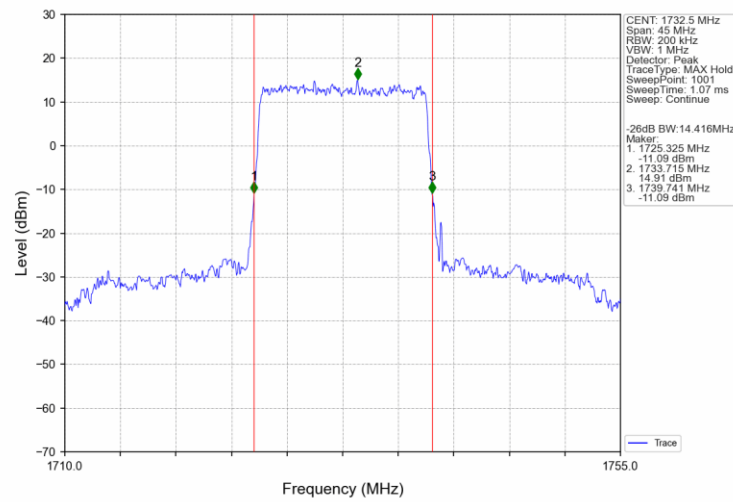
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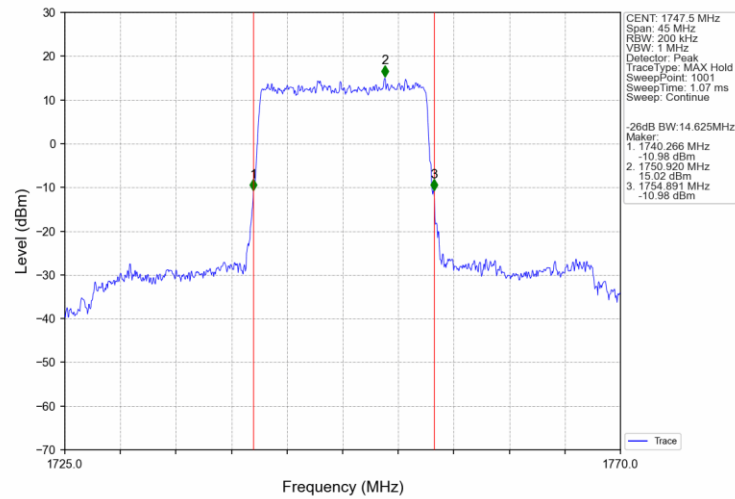
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



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

