

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	22.59	-4.27	18.32	<=30	Pass
			2	22.51	-4.27	18.24	<=30	Pass
			5	22.20	-4.27	17.93	<=30	Pass
		3	0	22.65	-4.27	18.38	<=30	Pass
			2	22.65	-4.27	18.38	<=30	Pass
			3	22.68	-4.27	18.41	<=30	Pass
		6	0	21.65	-4.27	17.38	<=30	Pass
	1732.5	1	0	22.21	-4.27	17.94	<=30	Pass
			2	22.22	-4.27	17.95	<=30	Pass
			5	22.18	-4.27	17.91	<=30	Pass
		3	0	22.78	-4.27	18.51	<=30	Pass
			2	22.74	-4.27	18.47	<=30	Pass
			3	22.73	-4.27	18.46	<=30	Pass
		6	0	21.82	-4.27	17.55	<=30	Pass
	1754.3	1	0	21.99	-4.27	17.72	<=30	Pass
			2	21.95	-4.27	17.68	<=30	Pass
			5	21.95	-4.27	17.68	<=30	Pass
		3	0	22.55	-4.27	18.28	<=30	Pass
			2	22.56	-4.27	18.29	<=30	Pass
			3	22.53	-4.27	18.26	<=30	Pass
		6	0	21.56	-4.27	17.29	<=30	Pass
16QAM	1710.7	1	0	21.13	-4.27	16.86	<=30	Pass
			2	21.16	-4.27	16.89	<=30	Pass
			5	21.19	-4.27	16.92	<=30	Pass
		3	0	21.68	-4.27	17.41	<=30	Pass
			2	21.68	-4.27	17.41	<=30	Pass
			3	21.67	-4.27	17.40	<=30	Pass
		6	0	20.55	-4.27	16.28	<=30	Pass
	1732.5	1	0	21.46	-4.27	17.19	<=30	Pass
			2	21.44	-4.27	17.17	<=30	Pass
			5	21.43	-4.27	17.16	<=30	Pass
		3	0	21.75	-4.27	17.48	<=30	Pass
			2	21.71	-4.27	17.44	<=30	Pass
			3	21.72	-4.27	17.45	<=30	Pass
		6	0	20.82	-4.27	16.55	<=30	Pass
	1754.3	1	0	21.04	-4.27	16.77	<=30	Pass
			2	21.00	-4.27	16.73	<=30	Pass
			5	21.03	-4.27	16.76	<=30	Pass
		3	0	21.68	-4.27	17.41	<=30	Pass
			2	21.71	-4.27	17.44	<=30	Pass
			3	21.72	-4.27	17.45	<=30	Pass
		6	0	20.54	-4.27	16.27	<=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	22.10	-4.27	17.83	<=30	Pass
			7	22.11	-4.27	17.84	<=30	Pass
			14	22.10	-4.27	17.83	<=30	Pass
		8	0	21.63	-4.27	17.36	<=30	Pass
			4	21.59	-4.27	17.32	<=30	Pass
			7	21.63	-4.27	17.36	<=30	Pass
		15	0	21.62	-4.27	17.35	<=30	Pass
	1732.5	1	0	22.18	-4.27	17.91	<=30	Pass
			7	22.16	-4.27	17.89	<=30	Pass
			14	22.19	-4.27	17.92	<=30	Pass
		8	0	21.75	-4.27	17.48	<=30	Pass
			4	21.70	-4.27	17.43	<=30	Pass
			7	21.71	-4.27	17.44	<=30	Pass
		15	0	21.71	-4.27	17.44	<=30	Pass
	1753.5	1	0	21.99	-4.27	17.72	<=30	Pass
			7	21.96	-4.27	17.69	<=30	Pass
			14	21.91	-4.27	17.64	<=30	Pass
		8	0	21.46	-4.27	17.19	<=30	Pass
			4	21.45	-4.27	17.18	<=30	Pass
			7	21.45	-4.27	17.18	<=30	Pass
		15	0	21.47	-4.27	17.20	<=30	Pass
16QAM	1711.5	1	0	21.14	-4.27	16.87	<=30	Pass
			7	21.16	-4.27	16.89	<=30	Pass
			14	21.14	-4.27	16.87	<=30	Pass
		8	0	20.67	-4.27	16.40	<=30	Pass
			4	20.68	-4.27	16.41	<=30	Pass
			7	20.70	-4.27	16.43	<=30	Pass
		15	0	20.67	-4.27	16.40	<=30	Pass
	1732.5	1	0	21.43	-4.27	17.16	<=30	Pass
			7	21.42	-4.27	17.15	<=30	Pass
			14	21.41	-4.27	17.14	<=30	Pass
		8	0	20.72	-4.27	16.45	<=30	Pass
			4	20.69	-4.27	16.42	<=30	Pass
			7	20.66	-4.27	16.39	<=30	Pass
		15	0	20.65	-4.27	16.38	<=30	Pass
	1753.5	1	0	21.56	-4.27	17.29	<=30	Pass
			7	21.55	-4.27	17.28	<=30	Pass
			14	21.48	-4.27	17.21	<=30	Pass
		8	0	20.63	-4.27	16.36	<=30	Pass
			4	20.61	-4.27	16.34	<=30	Pass
			7	20.62	-4.27	16.35	<=30	Pass
		15	0	20.54	-4.27	16.27	<=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	22.19	-4.27	17.92	<=30	Pass
			13	22.14	-4.27	17.87	<=30	Pass
			24	22.20	-4.27	17.93	<=30	Pass
		12	0	21.64	-4.27	17.37	<=30	Pass
			6	21.66	-4.27	17.39	<=30	Pass
			13	21.63	-4.27	17.36	<=30	Pass
		25	0	21.65	-4.27	17.38	<=30	Pass
	1732.5	1	0	22.24	-4.27	17.97	<=30	Pass
			13	22.22	-4.27	17.95	<=30	Pass

		12	24	22.28	-4.27	18.01	<=30	Pass	
			0	21.77	-4.27	17.50	<=30	Pass	
			6	21.75	-4.27	17.48	<=30	Pass	
			13	21.69	-4.27	17.42	<=30	Pass	
		25	0	21.76	-4.27	17.49	<=30	Pass	
	1752.5	1	0	22.16	-4.27	17.89	<=30	Pass	
			13	22.11	-4.27	17.84	<=30	Pass	
			24	22.14	-4.27	17.87	<=30	Pass	
		12	0	21.47	-4.27	17.20	<=30	Pass	
			6	21.50	-4.27	17.23	<=30	Pass	
			13	21.49	-4.27	17.22	<=30	Pass	
		25	0	21.50	-4.27	17.23	<=30	Pass	
16QAM	1712.5	1	0	21.28	-4.27	17.01	<=30	Pass	
			13	21.22	-4.27	16.95	<=30	Pass	
			24	21.29	-4.27	17.02	<=30	Pass	
		12	0	20.58	-4.27	16.31	<=30	Pass	
			6	20.60	-4.27	16.33	<=30	Pass	
			13	20.61	-4.27	16.34	<=30	Pass	
		25	0	20.68	-4.27	16.41	<=30	Pass	
		1732.5	1	0	21.56	-4.27	17.29	<=30	Pass
				13	21.49	-4.27	17.22	<=30	Pass
	24			21.56	-4.27	17.29	<=30	Pass	
	12		0	20.83	-4.27	16.56	<=30	Pass	
			6	20.78	-4.27	16.51	<=30	Pass	
			13	20.72	-4.27	16.45	<=30	Pass	
	25		0	20.77	-4.27	16.50	<=30	Pass	
	1752.5		1	0	20.92	-4.27	16.65	<=30	Pass
				13	20.84	-4.27	16.57	<=30	Pass
		24		20.84	-4.27	16.57	<=30	Pass	
		12	0	20.46	-4.27	16.19	<=30	Pass	
			6	20.48	-4.27	16.21	<=30	Pass	
			13	20.50	-4.27	16.23	<=30	Pass	
	25	0	20.53	-4.27	16.26	<=30	Pass		
	Note1: EIRP=Conducted Power+Antenna Gain								

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	22.14	-4.27	17.87	<=30	Pass
			25	22.15	-4.27	17.88	<=30	Pass
			49	22.20	-4.27	17.93	<=30	Pass
		25	0	21.60	-4.27	17.33	<=30	Pass
			13	21.67	-4.27	17.40	<=30	Pass
			25	21.81	-4.27	17.54	<=30	Pass
		50	0	21.70	-4.27	17.43	<=30	Pass
			0	22.18	-4.27	17.91	<=30	Pass
			25	22.25	-4.27	17.98	<=30	Pass
		1	49	22.21	-4.27	17.94	<=30	Pass
			0	21.78	-4.27	17.51	<=30	Pass
			13	21.76	-4.27	17.49	<=30	Pass
	1732.5	25	25	21.70	-4.27	17.43	<=30	Pass
			0	21.75	-4.27	17.48	<=30	Pass
			0	22.02	-4.27	17.75	<=30	Pass
		1	25	21.98	-4.27	17.71	<=30	Pass
			49	21.95	-4.27	17.68	<=30	Pass
			0	21.48	-4.27	17.21	<=30	Pass

16QAM	1715	50	13	21.49	-4.27	17.22	<=30	Pass
			25	21.53	-4.27	17.26	<=30	Pass
			0	21.53	-4.27	17.26	<=30	Pass
		1	0	21.17	-4.27	16.90	<=30	Pass
			25	21.14	-4.27	16.87	<=30	Pass
			49	21.21	-4.27	16.94	<=30	Pass
		25	0	20.69	-4.27	16.42	<=30	Pass
			13	20.74	-4.27	16.47	<=30	Pass
			25	20.87	-4.27	16.60	<=30	Pass
		50	0	20.72	-4.27	16.45	<=30	Pass
	1732.5	1	0	21.41	-4.27	17.14	<=30	Pass
			25	21.45	-4.27	17.18	<=30	Pass
			49	21.42	-4.27	17.15	<=30	Pass
		25	0	20.80	-4.27	16.53	<=30	Pass
			13	20.80	-4.27	16.53	<=30	Pass
			25	20.69	-4.27	16.42	<=30	Pass
		50	0	20.72	-4.27	16.45	<=30	Pass
	1750	1	0	21.61	-4.27	17.34	<=30	Pass
			25	21.51	-4.27	17.24	<=30	Pass
			49	21.50	-4.27	17.23	<=30	Pass
		25	0	20.53	-4.27	16.26	<=30	Pass
			13	20.53	-4.27	16.26	<=30	Pass
			25	20.60	-4.27	16.33	<=30	Pass
		50	0	20.54	-4.27	16.27	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	21.96	-4.27	17.69	<=30	Pass
			38	22.06	-4.27	17.79	<=30	Pass
			74	22.06	-4.27	17.79	<=30	Pass
		36	0	21.52	-4.27	17.25	<=30	Pass
			18	21.61	-4.27	17.34	<=30	Pass
			39	21.75	-4.27	17.48	<=30	Pass
		75	0	21.66	-4.27	17.39	<=30	Pass
	1732.5	1	0	22.08	-4.27	17.81	<=30	Pass
			38	22.16	-4.27	17.89	<=30	Pass
			74	22.10	-4.27	17.83	<=30	Pass
		36	0	21.67	-4.27	17.40	<=30	Pass
			18	21.69	-4.27	17.42	<=30	Pass
			39	21.64	-4.27	17.37	<=30	Pass
		75	0	21.66	-4.27	17.39	<=30	Pass
	1747.5	1	0	22.00	-4.27	17.73	<=30	Pass
			38	22.03	-4.27	17.76	<=30	Pass
			74	21.84	-4.27	17.57	<=30	Pass
		36	0	21.53	-4.27	17.26	<=30	Pass
			18	21.49	-4.27	17.22	<=30	Pass
			39	21.50	-4.27	17.23	<=30	Pass
		75	0	21.55	-4.27	17.28	<=30	Pass
16QAM	1717.5	1	0	21.43	-4.27	17.16	<=30	Pass
			38	21.50	-4.27	17.23	<=30	Pass
			74	21.53	-4.27	17.26	<=30	Pass
		36	0	20.51	-4.27	16.24	<=30	Pass
			18	20.58	-4.27	16.31	<=30	Pass
			39	20.72	-4.27	16.45	<=30	Pass

	1732.5	75	0	20.68	-4.27	16.41	<=30	Pass
		1	0	21.30	-4.27	17.03	<=30	Pass
			38	21.39	-4.27	17.12	<=30	Pass
			74	21.30	-4.27	17.03	<=30	Pass
		36	0	20.69	-4.27	16.42	<=30	Pass
			18	20.73	-4.27	16.46	<=30	Pass
			39	20.69	-4.27	16.42	<=30	Pass
		75	0	20.69	-4.27	16.42	<=30	Pass
	1747.5	1	0	21.61	-4.27	17.34	<=30	Pass
			38	21.64	-4.27	17.37	<=30	Pass
			74	21.44	-4.27	17.17	<=30	Pass
		36	0	20.56	-4.27	16.29	<=30	Pass
			18	20.52	-4.27	16.25	<=30	Pass
			39	20.53	-4.27	16.26	<=30	Pass
		75	0	20.54	-4.27	16.27	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	22.00	-4.27	17.73	<=30	Pass
			50	22.12	-4.27	17.85	<=30	Pass
			99	22.11	-4.27	17.84	<=30	Pass
		50	0	21.44	-4.27	17.17	<=30	Pass
			25	21.71	-4.27	17.44	<=30	Pass
			50	21.82	-4.27	17.55	<=30	Pass
		100	0	21.69	-4.27	17.42	<=30	Pass
	1732.5	1	0	22.09	-4.27	17.82	<=30	Pass
			50	22.23	-4.27	17.96	<=30	Pass
			99	22.05	-4.27	17.78	<=30	Pass
		50	0	21.65	-4.27	17.38	<=30	Pass
			25	21.72	-4.27	17.45	<=30	Pass
			50	21.64	-4.27	17.37	<=30	Pass
		100	0	21.61	-4.27	17.34	<=30	Pass
	1745	1	0	22.11	-4.27	17.84	<=30	Pass
			50	22.12	-4.27	17.85	<=30	Pass
			99	21.87	-4.27	17.60	<=30	Pass
		50	0	21.63	-4.27	17.36	<=30	Pass
			25	21.61	-4.27	17.34	<=30	Pass
			50	21.61	-4.27	17.34	<=30	Pass
		100	0	21.62	-4.27	17.35	<=30	Pass
16QAM	1720	1	0	21.58	-4.27	17.31	<=30	Pass
			50	21.71	-4.27	17.44	<=30	Pass
			99	21.75	-4.27	17.48	<=30	Pass
		50	0	20.40	-4.27	16.13	<=30	Pass
			25	20.66	-4.27	16.39	<=30	Pass
			50	20.82	-4.27	16.55	<=30	Pass
		100	0	20.68	-4.27	16.41	<=30	Pass
	1732.5	1	0	21.33	-4.27	17.06	<=30	Pass
			50	21.47	-4.27	17.20	<=30	Pass
			99	21.25	-4.27	16.98	<=30	Pass
		50	0	20.62	-4.27	16.35	<=30	Pass
			25	20.70	-4.27	16.43	<=30	Pass
			50	20.61	-4.27	16.34	<=30	Pass
		100	0	20.60	-4.27	16.33	<=30	Pass
	1745	1	0	21.43	-4.27	17.16	<=30	Pass

			50	21.41	-4.27	17.14	<=30	Pass
			99	21.19	-4.27	16.92	<=30	Pass
			0	20.63	-4.27	16.36	<=30	Pass
		50	25	20.57	-4.27	16.30	<=30	Pass
			50	20.56	-4.27	16.29	<=30	Pass
			100	20.59	-4.27	16.32	<=30	Pass
		100	0	20.59	-4.27	16.32	<=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	-9.627	-0.0056	-2.5 to 2.5	Pass
					3.85	-0.815	-0.0005	-2.5 to 2.5	Pass
					4.43	21.558	0.0126	-2.5 to 2.5	Pass
				-30	3.85	6.609	0.0039	-2.5 to 2.5	Pass
				-20	3.85	1.688	0.0010	-2.5 to 2.5	Pass
				-10	3.85	1.602	0.0009	-2.5 to 2.5	Pass
				0	3.85	-2.604	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-2.103	-0.0012	-2.5 to 2.5	Pass
				30	3.85	3.276	0.0019	-2.5 to 2.5	Pass
				40	3.85	9.813	0.0057	-2.5 to 2.5	Pass
				50	3.85	3.920	0.0023	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	6.309	0.0036	-2.5 to 2.5	Pass
					3.85	5.550	0.0032	-2.5 to 2.5	Pass
					4.43	3.204	0.0018	-2.5 to 2.5	Pass
				-30	3.85	8.111	0.0047	-2.5 to 2.5	Pass
				-20	3.85	7.553	0.0044	-2.5 to 2.5	Pass
				-10	3.85	-4.334	-0.0025	-2.5 to 2.5	Pass
				0	3.85	8.426	0.0049	-2.5 to 2.5	Pass
				10	3.85	13.690	0.0079	-2.5 to 2.5	Pass
				30	3.85	4.277	0.0025	-2.5 to 2.5	Pass
				40	3.85	12.646	0.0073	-2.5 to 2.5	Pass
				50	3.85	5.350	0.0031	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	5.736	0.0033	-2.5 to 2.5	Pass
					3.85	1.631	0.0009	-2.5 to 2.5	Pass
					4.43	2.046	0.0012	-2.5 to 2.5	Pass
				-30	3.85	1.402	0.0008	-2.5 to 2.5	Pass
				-20	3.85	5.178	0.0030	-2.5 to 2.5	Pass
				-10	3.85	8.998	0.0051	-2.5 to 2.5	Pass
				0	3.85	4.678	0.0027	-2.5 to 2.5	Pass
				10	3.85	8.440	0.0048	-2.5 to 2.5	Pass
				30	3.85	3.505	0.0020	-2.5 to 2.5	Pass
				40	3.85	0.529	0.0003	-2.5 to 2.5	Pass
				50	3.85	-2.232	-0.0013	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	5.908	0.0035	-2.5 to 2.5	Pass
					3.85	-4.234	-0.0025	-2.5 to 2.5	Pass
					4.43	10.901	0.0064	-2.5 to 2.5	Pass
				-30	3.85	-0.286	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	-3.805	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	3.619	0.0021	-2.5 to 2.5	Pass

				0	3.85	10.242	0.0060	-2.5 to 2.5	Pass
				10	3.85	-1.159	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-6.051	-0.0035	-2.5 to 2.5	Pass
				40	3.85	0.758	0.0004	-2.5 to 2.5	Pass
				50	3.85	-4.635	-0.0027	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-3.304	-0.0019	-2.5 to 2.5	Pass
					3.85	4.678	0.0027	-2.5 to 2.5	Pass
					4.43	-3.862	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-9.971	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-2.031	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-6.580	-0.0038	-2.5 to 2.5	Pass
				0	3.85	1.459	0.0008	-2.5 to 2.5	Pass
				10	3.85	-7.424	-0.0043	-2.5 to 2.5	Pass
				30	3.85	-4.678	-0.0027	-2.5 to 2.5	Pass
				40	3.85	3.905	0.0023	-2.5 to 2.5	Pass
				50	3.85	-6.838	-0.0039	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-1.516	-0.0009	-2.5 to 2.5	Pass
					3.85	0.215	0.0001	-2.5 to 2.5	Pass
					4.43	10.271	0.0059	-2.5 to 2.5	Pass
				-30	3.85	2.675	0.0015	-2.5 to 2.5	Pass
				-20	3.85	1.159	0.0007	-2.5 to 2.5	Pass
				-10	3.85	1.330	0.0008	-2.5 to 2.5	Pass
				0	3.85	5.393	0.0031	-2.5 to 2.5	Pass
				10	3.85	3.047	0.0017	-2.5 to 2.5	Pass
				30	3.85	4.892	0.0028	-2.5 to 2.5	Pass
				40	3.85	3.276	0.0019	-2.5 to 2.5	Pass
				50	3.85	9.069	0.0052	-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	-6.065	-0.0035	-2.5 to 2.5	Pass
					3.85	-0.887	-0.0005	-2.5 to 2.5	Pass
					4.43	1.645	0.0010	-2.5 to 2.5	Pass
				-30	3.85	-4.034	-0.0024	-2.5 to 2.5	Pass
				-20	3.85	4.563	0.0027	-2.5 to 2.5	Pass
				-10	3.85	-1.874	-0.0011	-2.5 to 2.5	Pass
				0	3.85	6.967	0.0041	-2.5 to 2.5	Pass
				10	3.85	1.087	0.0006	-2.5 to 2.5	Pass
				30	3.85	6.037	0.0035	-2.5 to 2.5	Pass
				40	3.85	1.674	0.0010	-2.5 to 2.5	Pass
				50	3.85	-1.545	-0.0009	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	4.292	0.0025	-2.5 to 2.5	Pass
					3.85	-3.862	-0.0022	-2.5 to 2.5	Pass
					4.43	1.059	0.0006	-2.5 to 2.5	Pass
				-30	3.85	4.721	0.0027	-2.5 to 2.5	Pass
				-20	3.85	3.362	0.0019	-2.5 to 2.5	Pass
				-10	3.85	-6.666	-0.0038	-2.5 to 2.5	Pass
				0	3.85	-2.503	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-1.974	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-2.031	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-4.249	-0.0025	-2.5 to 2.5	Pass
				50	3.85	7.381	0.0043	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	3.605	0.0021	-2.5 to 2.5	Pass
					3.85	9.527	0.0054	-2.5 to 2.5	Pass
					4.43	10.486	0.0060	-2.5 to 2.5	Pass

				-30	3.85	1.431	0.0008	-2.5 to 2.5	Pass
				-20	3.85	-7.496	-0.0043	-2.5 to 2.5	Pass
				-10	3.85	6.552	0.0037	-2.5 to 2.5	Pass
				0	3.85	3.905	0.0022	-2.5 to 2.5	Pass
				10	3.85	10.486	0.0060	-2.5 to 2.5	Pass
				30	3.85	-1.860	-0.0011	-2.5 to 2.5	Pass
				40	3.85	2.847	0.0016	-2.5 to 2.5	Pass
				50	3.85	4.878	0.0028	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	8.941	0.0052	-2.5 to 2.5	Pass
					3.85	3.347	0.0020	-2.5 to 2.5	Pass
					4.43	1.130	0.0007	-2.5 to 2.5	Pass
				-30	3.85	0.644	0.0004	-2.5 to 2.5	Pass
				-20	3.85	-4.120	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	-2.689	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-0.858	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-5.894	-0.0034	-2.5 to 2.5	Pass
				30	3.85	-0.615	-0.0004	-2.5 to 2.5	Pass
				40	3.85	1.502	0.0009	-2.5 to 2.5	Pass
				50	3.85	-3.304	-0.0019	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	2.646	0.0015	-2.5 to 2.5	Pass
					3.85	6.695	0.0039	-2.5 to 2.5	Pass
					4.43	-4.063	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	6.566	0.0038	-2.5 to 2.5	Pass
				-20	3.85	2.003	0.0012	-2.5 to 2.5	Pass
				-10	3.85	10.486	0.0061	-2.5 to 2.5	Pass
				0	3.85	0.114	0.0001	-2.5 to 2.5	Pass
				10	3.85	5.422	0.0031	-2.5 to 2.5	Pass
				30	3.85	-3.247	-0.0019	-2.5 to 2.5	Pass
				40	3.85	9.341	0.0054	-2.5 to 2.5	Pass
				50	3.85	3.562	0.0021	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	6.752	0.0039	-2.5 to 2.5	Pass
					3.85	4.592	0.0026	-2.5 to 2.5	Pass
					4.43	9.785	0.0056	-2.5 to 2.5	Pass
				-30	3.85	-2.818	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	8.368	0.0048	-2.5 to 2.5	Pass
				-10	3.85	1.645	0.0009	-2.5 to 2.5	Pass
				0	3.85	9.441	0.0054	-2.5 to 2.5	Pass
				10	3.85	6.480	0.0037	-2.5 to 2.5	Pass
				30	3.85	-4.134	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-0.658	-0.0004	-2.5 to 2.5	Pass
				50	3.85	3.047	0.0017	-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	0.544	0.0003	-2.5 to 2.5	Pass
					3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
					4.43	4.306	0.0025	-2.5 to 2.5	Pass
				-30	3.85	3.419	0.0020	-2.5 to 2.5	Pass
				-20	3.85	-1.917	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	7.310	0.0043	-2.5 to 2.5	Pass
				0	3.85	4.406	0.0026	-2.5 to 2.5	Pass
				10	3.85	8.454	0.0049	-2.5 to 2.5	Pass
				30	3.85	1.817	0.0011	-2.5 to 2.5	Pass
				40	3.85	8.984	0.0052	-2.5 to 2.5	Pass
				50	3.85	4.964	0.0029	-2.5 to 2.5	Pass

	1732.5	25	0	20	3.27	-0.114	-0.0001	-2.5 to 2.5	Pass
					3.85	10.386	0.0060	-2.5 to 2.5	Pass
					4.43	12.989	0.0075	-2.5 to 2.5	Pass
				-30	3.85	5.279	0.0030	-2.5 to 2.5	Pass
				-20	3.85	8.783	0.0051	-2.5 to 2.5	Pass
				-10	3.85	1.516	0.0009	-2.5 to 2.5	Pass
				0	3.85	10.958	0.0063	-2.5 to 2.5	Pass
				10	3.85	5.665	0.0033	-2.5 to 2.5	Pass
				30	3.85	9.899	0.0057	-2.5 to 2.5	Pass
				40	3.85	4.077	0.0024	-2.5 to 2.5	Pass
				50	3.85	4.063	0.0023	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	0.572	0.0003	-2.5 to 2.5	Pass
					3.85	-1.330	-0.0008	-2.5 to 2.5	Pass
					4.43	6.752	0.0039	-2.5 to 2.5	Pass
				-30	3.85	-2.432	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	1.259	0.0007	-2.5 to 2.5	Pass
				-10	3.85	-0.186	-0.0001	-2.5 to 2.5	Pass
				0	3.85	4.206	0.0024	-2.5 to 2.5	Pass
				10	3.85	0.329	0.0002	-2.5 to 2.5	Pass
				30	3.85	3.319	0.0019	-2.5 to 2.5	Pass
				40	3.85	13.719	0.0078	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	0.687	0.0004	-2.5 to 2.5	Pass
					3.85	0.186	0.0001	-2.5 to 2.5	Pass
					4.43	0.973	0.0006	-2.5 to 2.5	Pass
				-30	3.85	3.548	0.0021	-2.5 to 2.5	Pass
				-20	3.85	5.136	0.0030	-2.5 to 2.5	Pass
				-10	3.85	0.873	0.0005	-2.5 to 2.5	Pass
				0	3.85	8.926	0.0052	-2.5 to 2.5	Pass
				10	3.85	9.527	0.0056	-2.5 to 2.5	Pass
				30	3.85	1.073	0.0006	-2.5 to 2.5	Pass
				40	3.85	1.988	0.0012	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	6.409	0.0037	-2.5 to 2.5	Pass
					3.85	-0.715	-0.0004	-2.5 to 2.5	Pass
					4.43	1.130	0.0007	-2.5 to 2.5	Pass
				-30	3.85	6.423	0.0037	-2.5 to 2.5	Pass
				-20	3.85	4.592	0.0027	-2.5 to 2.5	Pass
				-10	3.85	11.787	0.0068	-2.5 to 2.5	Pass
				0	3.85	1.945	0.0011	-2.5 to 2.5	Pass
				10	3.85	2.961	0.0017	-2.5 to 2.5	Pass
				30	3.85	-4.020	-0.0023	-2.5 to 2.5	Pass
				40	3.85	0.057	0.0000	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-0.057	0.0000	-2.5 to 2.5	Pass
					3.85	5.264	0.0030	-2.5 to 2.5	Pass
					4.43	-1.974	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	4.134	0.0024	-2.5 to 2.5	Pass
				-20	3.85	-3.819	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	3.090	0.0018	-2.5 to 2.5	Pass
				0	3.85	-3.347	-0.0019	-2.5 to 2.5	Pass
				10	3.85	4.148	0.0024	-2.5 to 2.5	Pass
				30	3.85	-3.691	-0.0021	-2.5 to 2.5	Pass
				40	3.85	0.544	0.0003	-2.5 to 2.5	Pass
				50	3.85	-0.100	-0.0001	-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	3.161	0.0018	-2.5 to 2.5	Pass
					3.85	3.476	0.0020	-2.5 to 2.5	Pass
					4.43	5.093	0.0030	-2.5 to 2.5	Pass
				-30	3.85	6.809	0.0040	-2.5 to 2.5	Pass
				-20	3.85	5.665	0.0033	-2.5 to 2.5	Pass
				-10	3.85	3.176	0.0019	-2.5 to 2.5	Pass
				0	3.85	4.148	0.0024	-2.5 to 2.5	Pass
				10	3.85	3.390	0.0020	-2.5 to 2.5	Pass
				30	3.85	3.934	0.0023	-2.5 to 2.5	Pass
				40	3.85	5.465	0.0032	-2.5 to 2.5	Pass
				50	3.85	4.120	0.0024	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-0.844	-0.0005	-2.5 to 2.5	Pass
					3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
					4.43	1.760	0.0010	-2.5 to 2.5	Pass
				-30	3.85	2.918	0.0017	-2.5 to 2.5	Pass
				-20	3.85	3.834	0.0022	-2.5 to 2.5	Pass
				-10	3.85	3.147	0.0018	-2.5 to 2.5	Pass
				0	3.85	5.121	0.0030	-2.5 to 2.5	Pass
				10	3.85	5.708	0.0033	-2.5 to 2.5	Pass
				30	3.85	0.587	0.0003	-2.5 to 2.5	Pass
				40	3.85	4.048	0.0023	-2.5 to 2.5	Pass
				50	3.85	0.801	0.0005	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	2.789	0.0016	-2.5 to 2.5	Pass
					3.85	6.309	0.0036	-2.5 to 2.5	Pass
					4.43	4.220	0.0024	-2.5 to 2.5	Pass
				-30	3.85	2.117	0.0012	-2.5 to 2.5	Pass
				-20	3.85	2.503	0.0014	-2.5 to 2.5	Pass
				-10	3.85	7.925	0.0045	-2.5 to 2.5	Pass
				0	3.85	7.367	0.0042	-2.5 to 2.5	Pass
				10	3.85	4.535	0.0026	-2.5 to 2.5	Pass
				30	3.85	4.935	0.0028	-2.5 to 2.5	Pass
				40	3.85	5.293	0.0030	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	5.751	0.0034	-2.5 to 2.5	Pass
					3.85	4.935	0.0029	-2.5 to 2.5	Pass
					4.43	8.111	0.0047	-2.5 to 2.5	Pass
				-30	3.85	2.418	0.0014	-2.5 to 2.5	Pass
				-20	3.85	1.802	0.0011	-2.5 to 2.5	Pass
				-10	3.85	3.533	0.0021	-2.5 to 2.5	Pass
				0	3.85	2.861	0.0017	-2.5 to 2.5	Pass
				10	3.85	1.531	0.0009	-2.5 to 2.5	Pass
				30	3.85	2.875	0.0017	-2.5 to 2.5	Pass
				40	3.85	5.050	0.0029	-2.5 to 2.5	Pass
				50	3.85	2.875	0.0017	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	2.589	0.0015	-2.5 to 2.5	Pass
					3.85	3.891	0.0022	-2.5 to 2.5	Pass
					4.43	7.267	0.0042	-2.5 to 2.5	Pass
				-30	3.85	3.161	0.0018	-2.5 to 2.5	Pass
				-20	3.85	2.818	0.0016	-2.5 to 2.5	Pass
				-10	3.85	1.116	0.0006	-2.5 to 2.5	Pass
				0	3.85	2.289	0.0013	-2.5 to 2.5	Pass
				10	3.85	-0.873	-0.0005	-2.5 to 2.5	Pass
				30	3.85	-0.701	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.215	-0.0001	-2.5 to 2.5	Pass
				50	3.85	4.077	0.0024	-2.5 to 2.5	Pass

	1750	50	0	20	3.27	5.951	0.0034	-2.5 to 2.5	Pass
					3.85	1.116	0.0006	-2.5 to 2.5	Pass
					4.43	3.533	0.0020	-2.5 to 2.5	Pass
				-30	3.85	11.158	0.0064	-2.5 to 2.5	Pass
				-20	3.85	6.495	0.0037	-2.5 to 2.5	Pass
				-10	3.85	7.567	0.0043	-2.5 to 2.5	Pass
				0	3.85	3.519	0.0020	-2.5 to 2.5	Pass
				10	3.85	7.968	0.0046	-2.5 to 2.5	Pass
				30	3.85	2.761	0.0016	-2.5 to 2.5	Pass
				40	3.85	10.057	0.0057	-2.5 to 2.5	Pass
				50	3.85	7.467	0.0043	-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	-1.845	-0.0011	-2.5 to 2.5	Pass
					3.85	-1.144	-0.0007	-2.5 to 2.5	Pass
					4.43	1.101	0.0006	-2.5 to 2.5	Pass
				-30	3.85	0.286	0.0002	-2.5 to 2.5	Pass
				-20	3.85	0.715	0.0004	-2.5 to 2.5	Pass
				-10	3.85	0.172	0.0001	-2.5 to 2.5	Pass
				0	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				10	3.85	0.901	0.0005	-2.5 to 2.5	Pass
				30	3.85	4.792	0.0028	-2.5 to 2.5	Pass
				40	3.85	4.392	0.0026	-2.5 to 2.5	Pass
				50	3.85	6.781	0.0039	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	1.101	0.0006	-2.5 to 2.5	Pass
					3.85	6.638	0.0038	-2.5 to 2.5	Pass
					4.43	5.522	0.0032	-2.5 to 2.5	Pass
				-30	3.85	6.022	0.0035	-2.5 to 2.5	Pass
				-20	3.85	1.559	0.0009	-2.5 to 2.5	Pass
				-10	3.85	3.576	0.0021	-2.5 to 2.5	Pass
				0	3.85	5.980	0.0035	-2.5 to 2.5	Pass
				10	3.85	3.333	0.0019	-2.5 to 2.5	Pass
				30	3.85	1.130	0.0007	-2.5 to 2.5	Pass
				40	3.85	2.546	0.0015	-2.5 to 2.5	Pass
				50	3.85	5.808	0.0034	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	3.877	0.0022	-2.5 to 2.5	Pass
					3.85	-1.488	-0.0009	-2.5 to 2.5	Pass
					4.43	0.887	0.0005	-2.5 to 2.5	Pass
				-30	3.85	3.719	0.0021	-2.5 to 2.5	Pass
				-20	3.85	0.987	0.0006	-2.5 to 2.5	Pass
				-10	3.85	0.615	0.0004	-2.5 to 2.5	Pass
				0	3.85	1.230	0.0007	-2.5 to 2.5	Pass
				10	3.85	3.462	0.0020	-2.5 to 2.5	Pass
				30	3.85	2.131	0.0012	-2.5 to 2.5	Pass
				40	3.85	3.133	0.0018	-2.5 to 2.5	Pass
				50	3.85	0.558	0.0003	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	4.220	0.0025	-2.5 to 2.5	Pass
					3.85	5.608	0.0033	-2.5 to 2.5	Pass
					4.43	5.422	0.0032	-2.5 to 2.5	Pass
				-30	3.85	1.502	0.0009	-2.5 to 2.5	Pass
				-20	3.85	4.449	0.0026	-2.5 to 2.5	Pass
				-10	3.85	3.533	0.0021	-2.5 to 2.5	Pass
				0	3.85	5.822	0.0034	-2.5 to 2.5	Pass
				10	3.85	4.063	0.0024	-2.5 to 2.5	Pass

				30	3.85	6.909	0.0040	-2.5 to 2.5	Pass
				40	3.85	3.834	0.0022	-2.5 to 2.5	Pass
				50	3.85	4.549	0.0026	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	2.947	0.0017	-2.5 to 2.5	Pass
					3.85	5.007	0.0029	-2.5 to 2.5	Pass
					4.43	3.862	0.0022	-2.5 to 2.5	Pass
				-30	3.85	5.178	0.0030	-2.5 to 2.5	Pass
				-20	3.85	1.831	0.0011	-2.5 to 2.5	Pass
				-10	3.85	4.807	0.0028	-2.5 to 2.5	Pass
				0	3.85	2.789	0.0016	-2.5 to 2.5	Pass
				10	3.85	4.907	0.0028	-2.5 to 2.5	Pass
				30	3.85	4.377	0.0025	-2.5 to 2.5	Pass
				40	3.85	4.120	0.0024	-2.5 to 2.5	Pass
				50	3.85	4.663	0.0027	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	2.389	0.0014	-2.5 to 2.5	Pass
					3.85	3.076	0.0018	-2.5 to 2.5	Pass
					4.43	4.091	0.0023	-2.5 to 2.5	Pass
				-30	3.85	4.606	0.0026	-2.5 to 2.5	Pass
				-20	3.85	5.722	0.0033	-2.5 to 2.5	Pass
				-10	3.85	6.638	0.0038	-2.5 to 2.5	Pass
				0	3.85	5.536	0.0032	-2.5 to 2.5	Pass
				10	3.85	6.094	0.0035	-2.5 to 2.5	Pass
				30	3.85	5.035	0.0029	-2.5 to 2.5	Pass
				40	3.85	4.907	0.0028	-2.5 to 2.5	Pass
				50	3.85	2.017	0.0012	-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	0.458	0.0003	-2.5 to 2.5	Pass
					3.85	2.446	0.0014	-2.5 to 2.5	Pass
					4.43	1.831	0.0011	-2.5 to 2.5	Pass
				-30	3.85	-0.315	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	3.476	0.0020	-2.5 to 2.5	Pass
				-10	3.85	2.904	0.0017	-2.5 to 2.5	Pass
				0	3.85	1.802	0.0010	-2.5 to 2.5	Pass
				10	3.85	6.495	0.0038	-2.5 to 2.5	Pass
				30	3.85	3.519	0.0020	-2.5 to 2.5	Pass
				40	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				50	3.85	3.347	0.0019	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	1.659	0.0010	-2.5 to 2.5	Pass
					3.85	-3.662	-0.0021	-2.5 to 2.5	Pass
					4.43	-1.888	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	1.559	0.0009	-2.5 to 2.5	Pass
				-20	3.85	-0.572	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	0.272	0.0002	-2.5 to 2.5	Pass
				0	3.85	-0.043	0.0000	-2.5 to 2.5	Pass
				10	3.85	-0.043	0.0000	-2.5 to 2.5	Pass
				30	3.85	-0.172	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-3.862	-0.0022	-2.5 to 2.5	Pass
				50	3.85	-0.443	-0.0003	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	1.602	0.0009	-2.5 to 2.5	Pass
					3.85	-0.229	-0.0001	-2.5 to 2.5	Pass
					4.43	2.518	0.0014	-2.5 to 2.5	Pass
				-30	3.85	-0.086	0.0000	-2.5 to 2.5	Pass
				-20	3.85	-1.073	-0.0006	-2.5 to 2.5	Pass

16QAM	1720	100	0	-10	3.85	1.202	0.0007	-2.5 to 2.5	Pass
				0	3.85	4.478	0.0026	-2.5 to 2.5	Pass
				10	3.85	0.186	0.0001	-2.5 to 2.5	Pass
				30	3.85	3.176	0.0018	-2.5 to 2.5	Pass
				40	3.85	2.389	0.0014	-2.5 to 2.5	Pass
	1732.5	100	0	50	3.85	3.333	0.0019	-2.5 to 2.5	Pass
				20	3.27	0.100	0.0001	-2.5 to 2.5	Pass
					3.85	4.621	0.0027	-2.5 to 2.5	Pass
					4.43	1.059	0.0006	-2.5 to 2.5	Pass
				-30	3.85	3.176	0.0018	-2.5 to 2.5	Pass
				-20	3.85	2.003	0.0012	-2.5 to 2.5	Pass
				-10	3.85	3.390	0.0020	-2.5 to 2.5	Pass
				0	3.85	2.332	0.0014	-2.5 to 2.5	Pass
				10	3.85	2.618	0.0015	-2.5 to 2.5	Pass
				30	3.85	2.804	0.0016	-2.5 to 2.5	Pass
				40	3.85	2.403	0.0014	-2.5 to 2.5	Pass
				50	3.85	4.034	0.0023	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-0.472	-0.0003	-2.5 to 2.5	Pass
					3.85	1.273	0.0007	-2.5 to 2.5	Pass
					4.43	-0.730	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.429	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-2.389	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	1.402	0.0008	-2.5 to 2.5	Pass
				0	3.85	1.087	0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-3.190	-0.0018	-2.5 to 2.5	Pass
				40	3.85	3.448	0.0020	-2.5 to 2.5	Pass
				50	3.85	0.730	0.0004	-2.5 to 2.5	Pass
				20	3.27	3.490	0.0020	-2.5 to 2.5	Pass
					3.85	3.276	0.0019	-2.5 to 2.5	Pass
					4.43	0.000	0.0000	-2.5 to 2.5	Pass
				-30	3.85	0.486	0.0003	-2.5 to 2.5	Pass
				-20	3.85	-0.257	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	0.172	0.0001	-2.5 to 2.5	Pass
				0	3.85	3.319	0.0019	-2.5 to 2.5	Pass
				10	3.85	-1.059	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-1.659	-0.0010	-2.5 to 2.5	Pass
				40	3.85	2.704	0.0015	-2.5 to 2.5	Pass
				50	3.85	2.518	0.0014	-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	
		Size	Offset	Result	Limit
QPSK	1732.5	6	0	Refer To Test Graph	
16QAM	1732.5	6	0	Refer To Test Graph	

3.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV					
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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

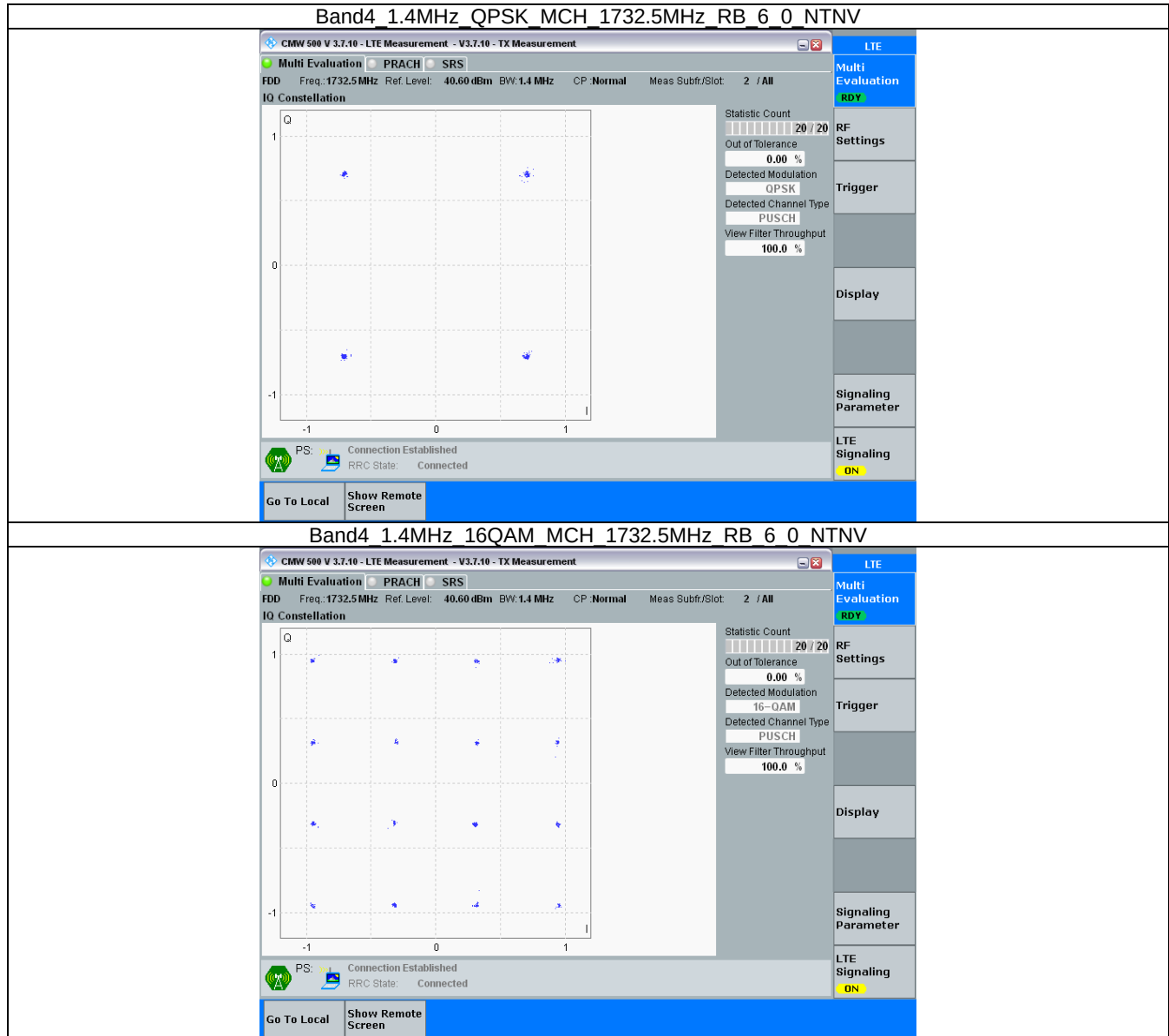
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

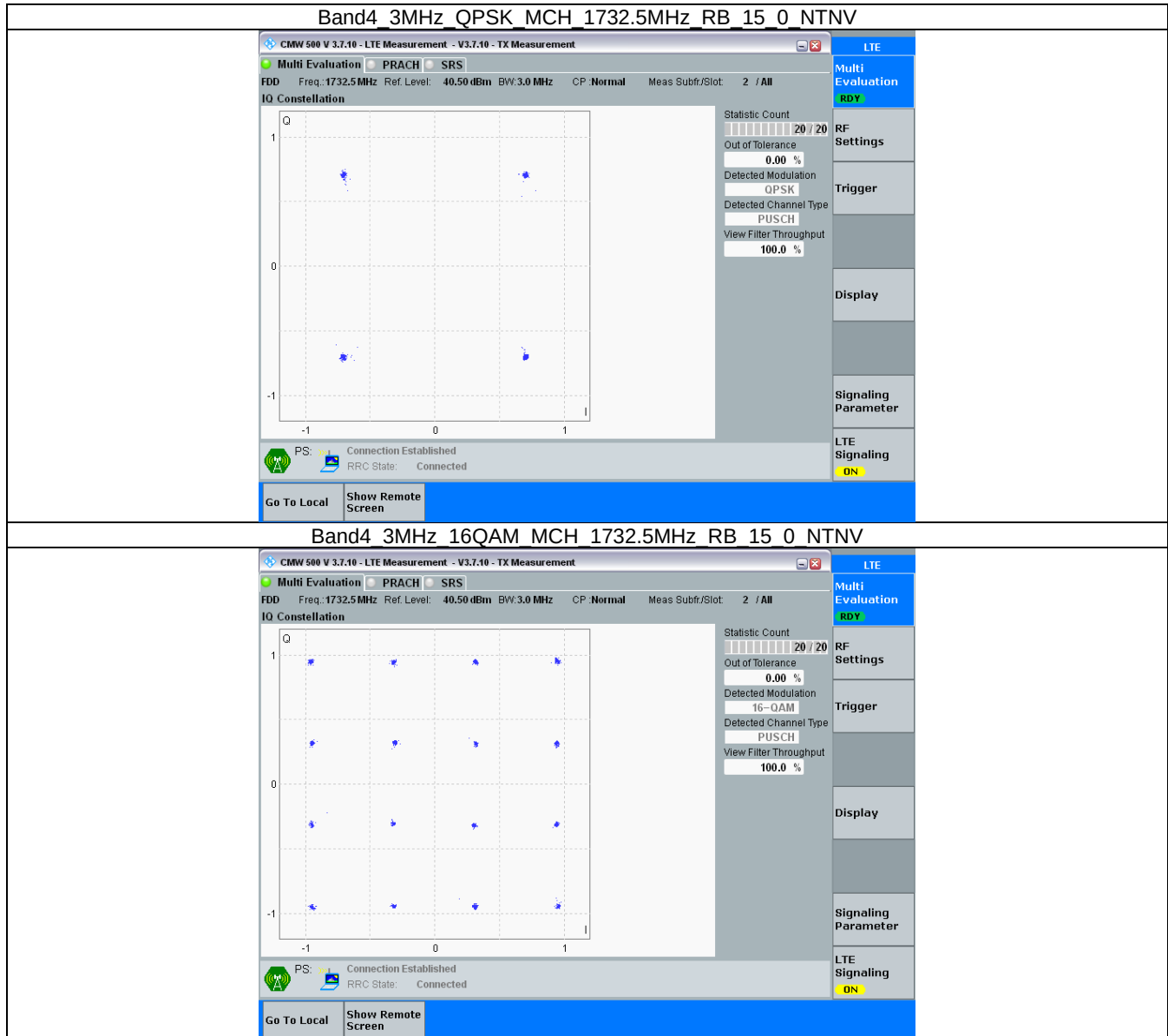
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

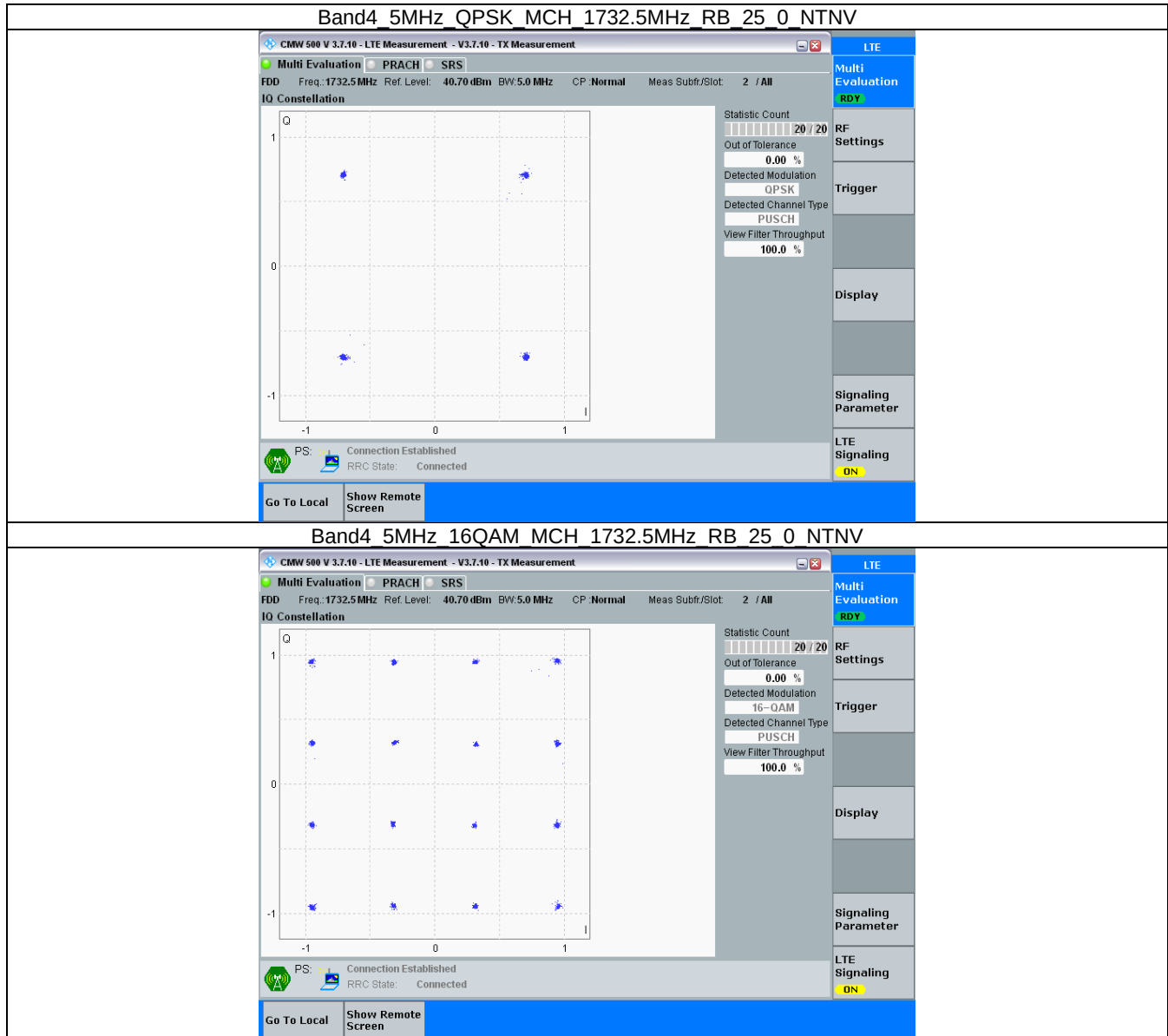
3.2.1 B4_1.4MHz



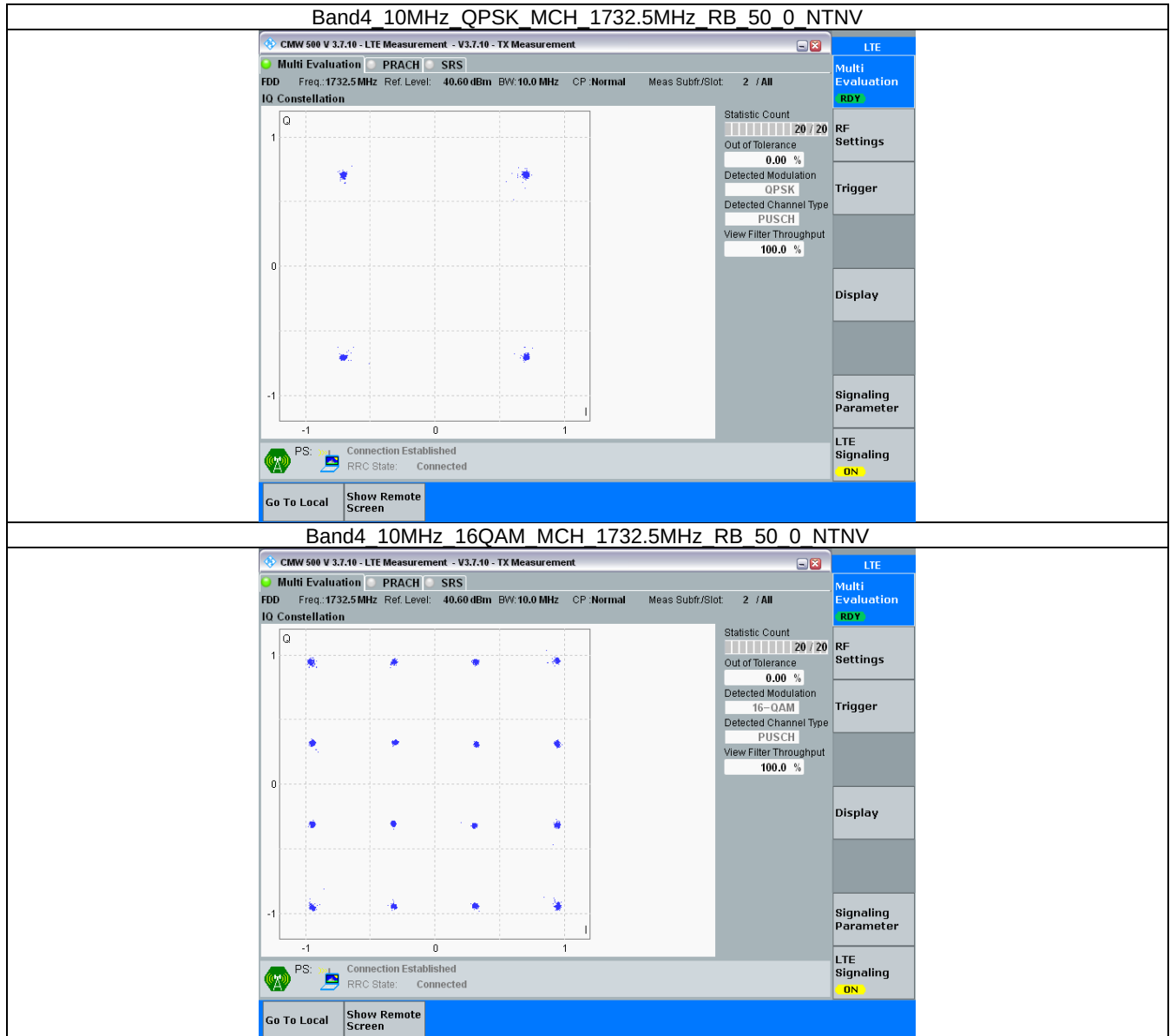
3.2.2 B4_3MHz



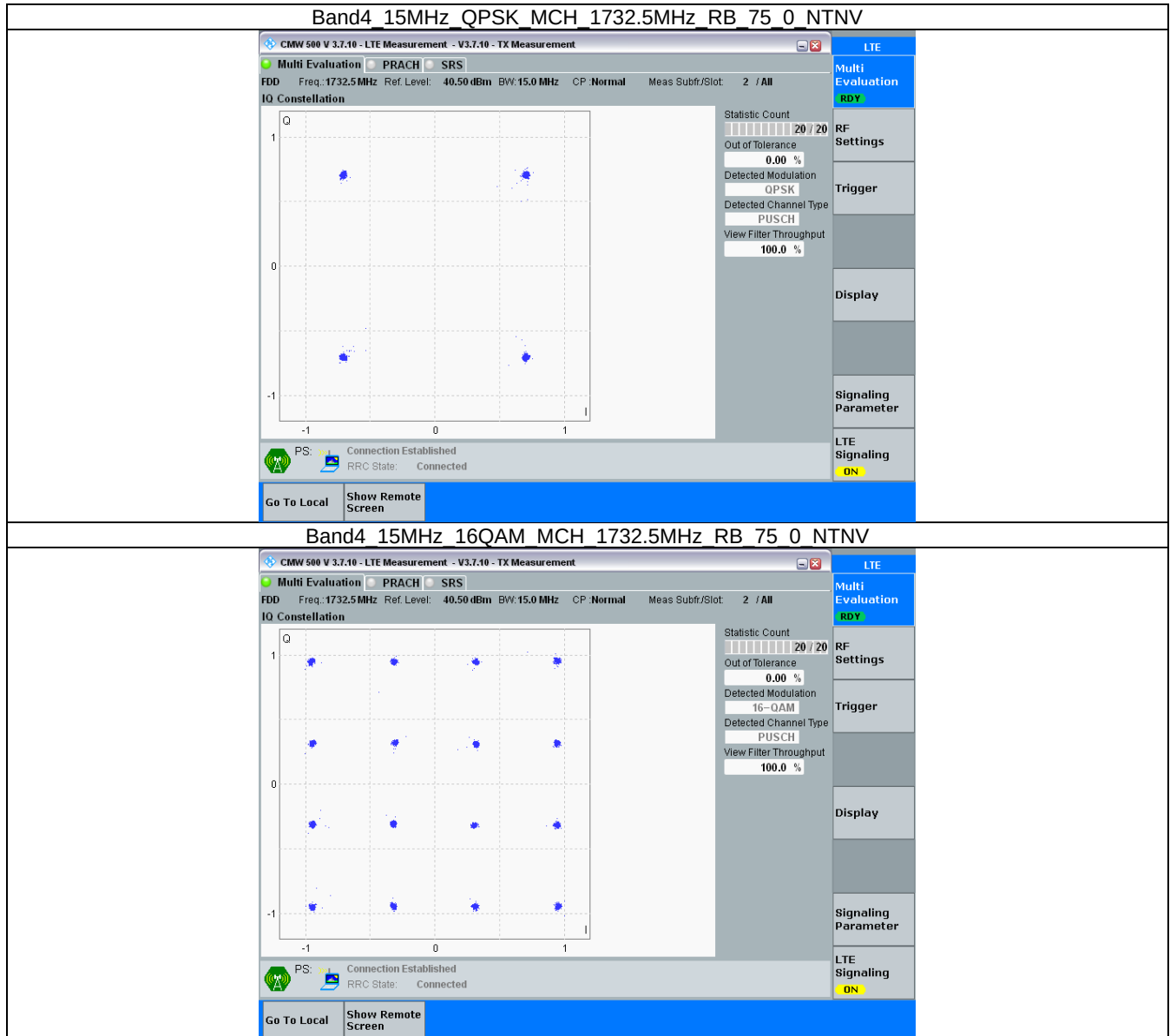
3.2.3 B4_5MHz



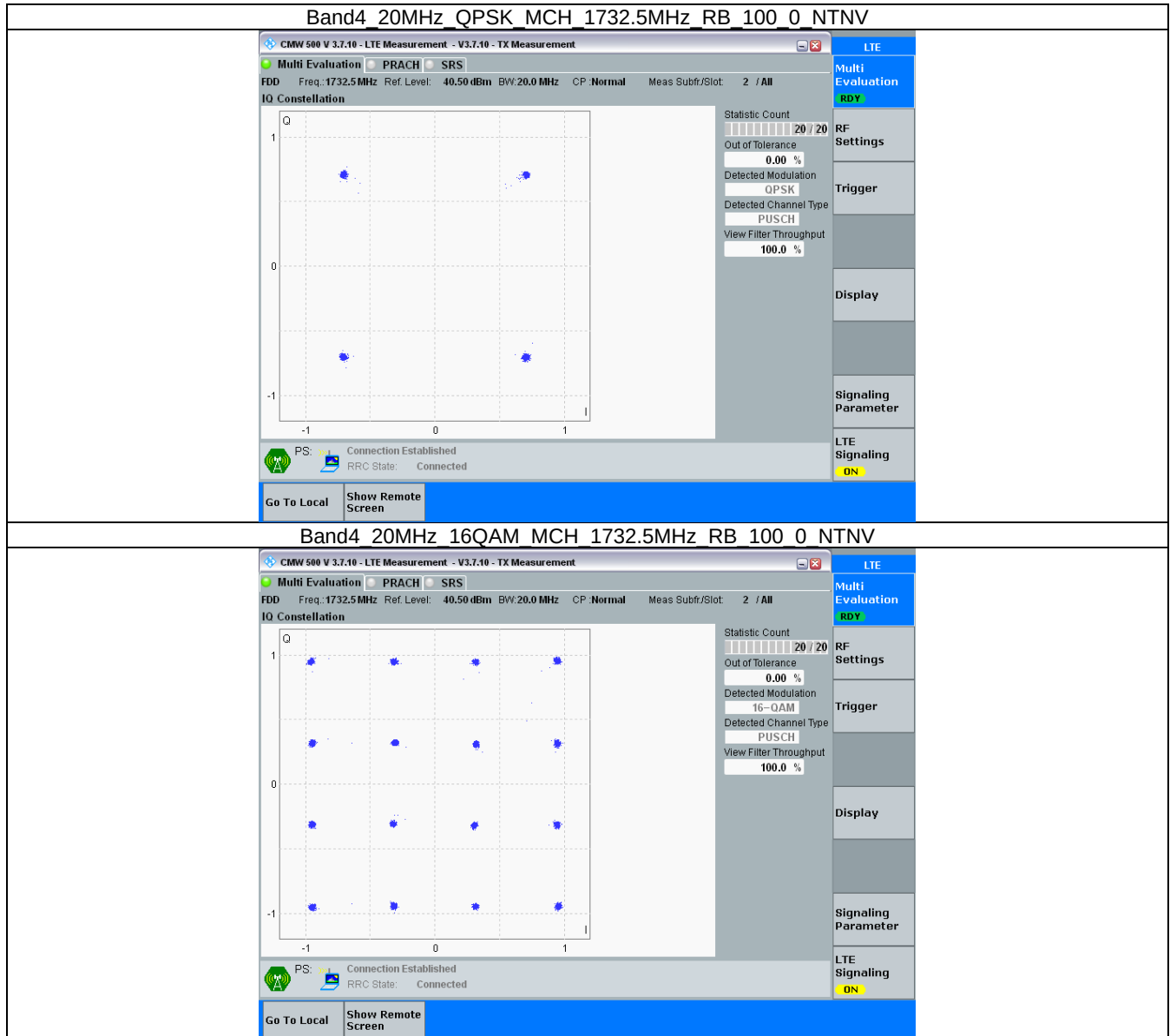
3.2.4 B4_10MHz



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	1.117	/	Pass
		1732.5	6	0	1.115	/	Pass
		1754.3	6	0	1.109	/	Pass
	16QAM	1710.7	6	0	1.109	/	Pass
		1732.5	6	0	1.102	/	Pass
		1754.3	6	0	1.114	/	Pass
3	QPSK	1711.5	15	0	2.735	/	Pass
		1732.5	15	0	2.724	/	Pass
		1753.5	15	0	2.732	/	Pass
	16QAM	1711.5	15	0	2.716	/	Pass
		1732.5	15	0	2.732	/	Pass
		1753.5	15	0	2.715	/	Pass
5	QPSK	1712.5	25	0	4.547	/	Pass
		1732.5	25	0	4.538	/	Pass
		1752.5	25	0	4.545	/	Pass
	16QAM	1712.5	25	0	4.534	/	Pass
		1732.5	25	0	4.555	/	Pass
		1752.5	25	0	4.537	/	Pass
10	QPSK	1715	50	0	9.071	/	Pass
		1732.5	50	0	9.045	/	Pass
		1750	50	0	9.056	/	Pass
	16QAM	1715	50	0	9.050	/	Pass
		1732.5	50	0	9.038	/	Pass
		1750	50	0	9.041	/	Pass
15	QPSK	1717.5	75	0	13.572	/	Pass
		1732.5	75	0	13.555	/	Pass
		1747.5	75	0	13.599	/	Pass
	16QAM	1717.5	75	0	13.590	/	Pass
		1732.5	75	0	13.571	/	Pass
		1747.5	75	0	13.630	/	Pass
20	QPSK	1720	100	0	18.085	/	Pass
		1732.5	100	0	18.104	/	Pass
		1745	100	0	18.148	/	Pass
	16QAM	1720	100	0	18.086	/	Pass
		1732.5	100	0	18.050	/	Pass
		1745	100	0	18.205	/	Pass

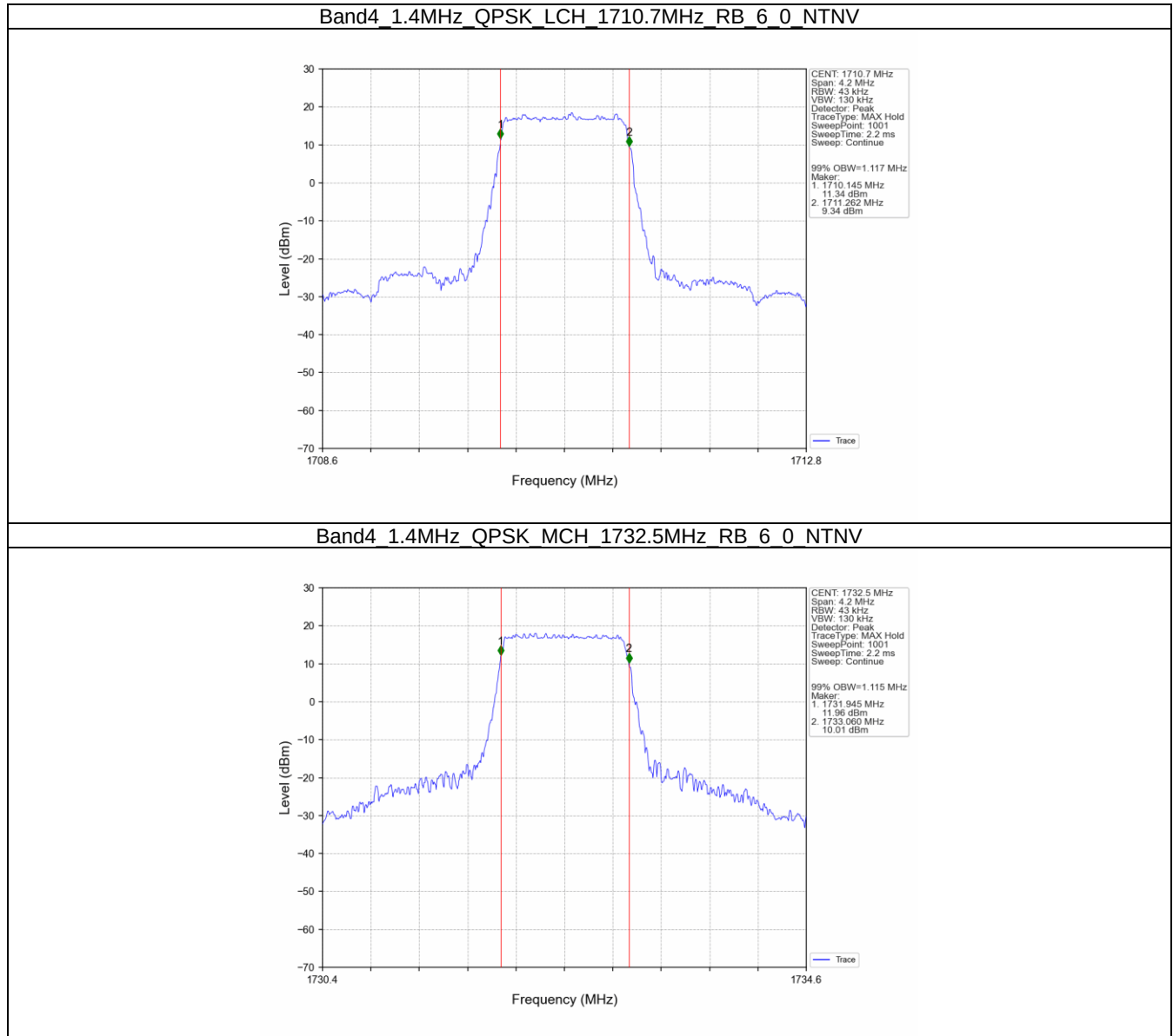
4.1.2 Band4_XDB

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	1.327	/	Pass
		1732.5	6	0	1.342	/	Pass
		1754.3	6	0	1.323	/	Pass

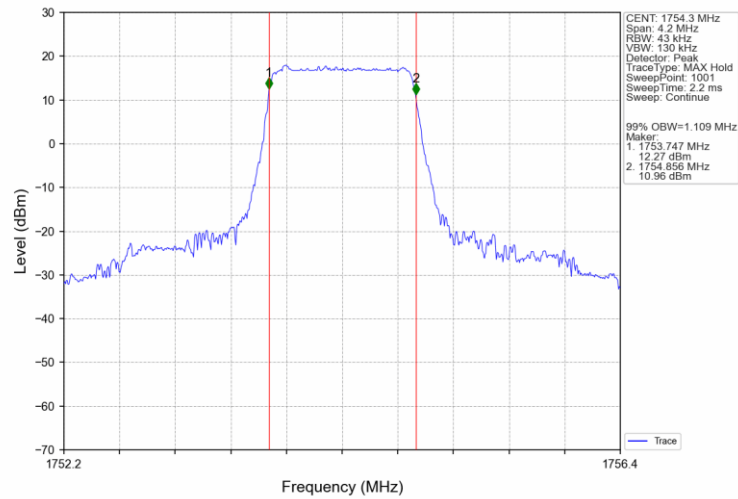
	16QAM	1710.7	6	0	1.343	/	Pass
		1732.5	6	0	1.300	/	Pass
		1754.3	6	0	1.342	/	Pass
3	QPSK	1711.5	15	0	3.006	/	Pass
		1732.5	15	0	3.004	/	Pass
		1753.5	15	0	3.033	/	Pass
	16QAM	1711.5	15	0	3.031	/	Pass
		1732.5	15	0	3.027	/	Pass
		1753.5	15	0	3.005	/	Pass
5	QPSK	1712.5	25	0	5.085	/	Pass
		1732.5	25	0	5.072	/	Pass
		1752.5	25	0	5.044	/	Pass
	16QAM	1712.5	25	0	5.085	/	Pass
		1732.5	25	0	5.048	/	Pass
		1752.5	25	0	5.059	/	Pass
10	QPSK	1715	50	0	9.946	/	Pass
		1732.5	50	0	9.984	/	Pass
		1750	50	0	10.002	/	Pass
	16QAM	1715	50	0	9.978	/	Pass
		1732.5	50	0	9.973	/	Pass
		1750	50	0	9.924	/	Pass
15	QPSK	1717.5	75	0	14.947	/	Pass
		1732.5	75	0	14.877	/	Pass
		1747.5	75	0	15.034	/	Pass
	16QAM	1717.5	75	0	14.935	/	Pass
		1732.5	75	0	14.894	/	Pass
		1747.5	75	0	14.968	/	Pass
20	QPSK	1720	100	0	20.139	/	Pass
		1732.5	100	0	19.773	/	Pass
		1745	100	0	19.722	/	Pass
	16QAM	1720	100	0	19.786	/	Pass
		1732.5	100	0	19.697	/	Pass
		1745	100	0	19.875	/	Pass

4.2 Test Graph

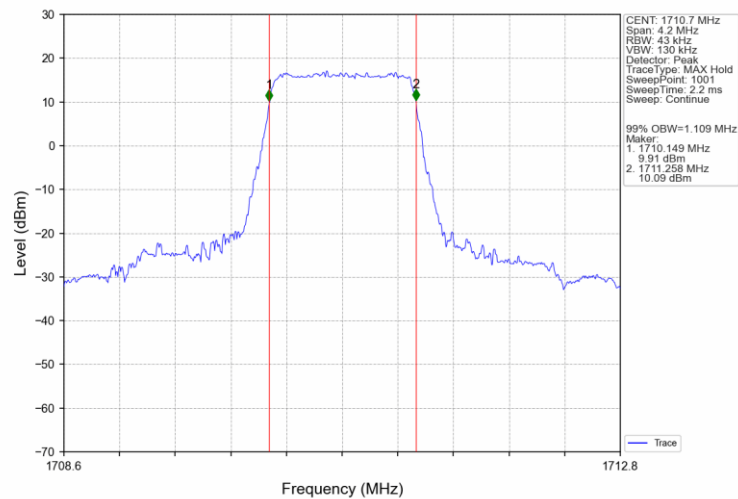
4.2.1 Band4_OBW



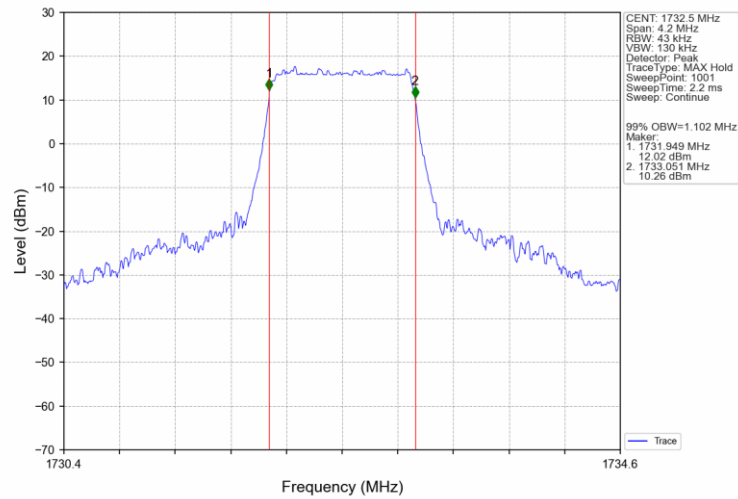
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



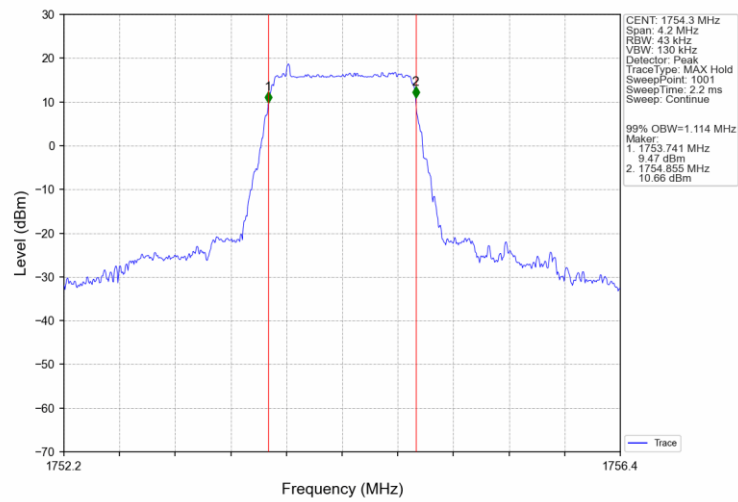
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



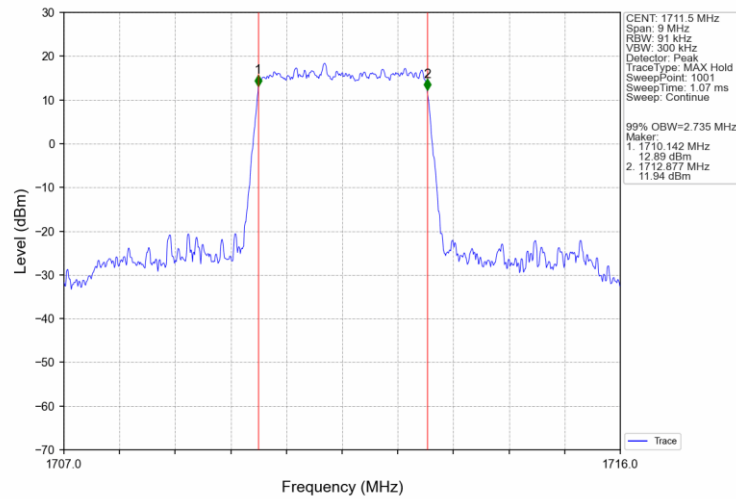
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



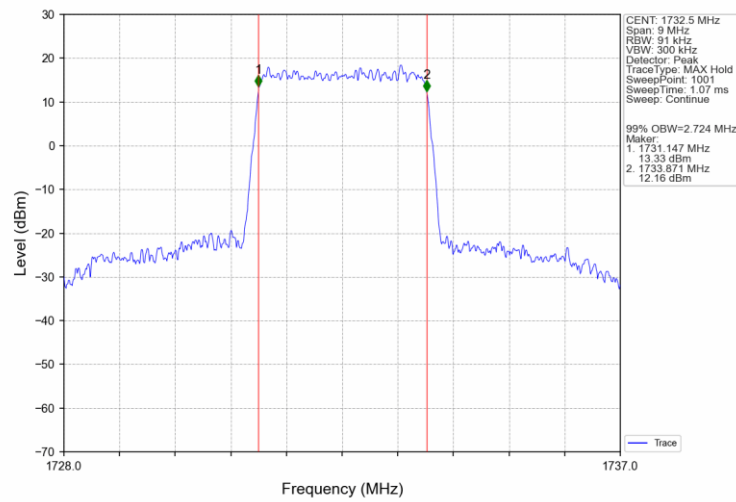
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



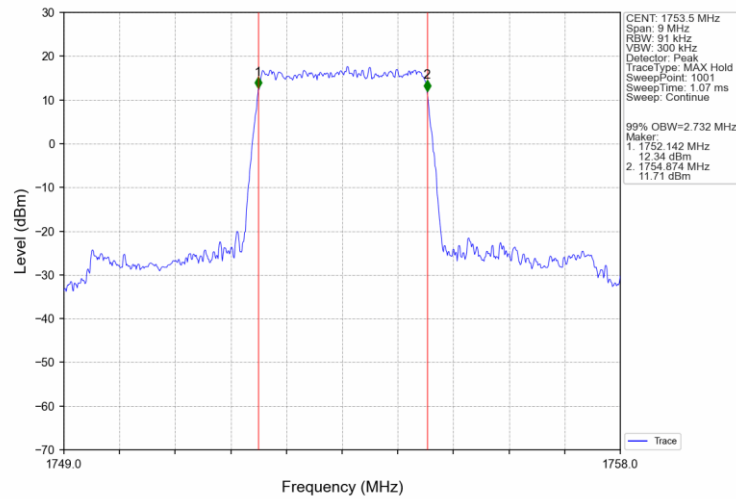
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



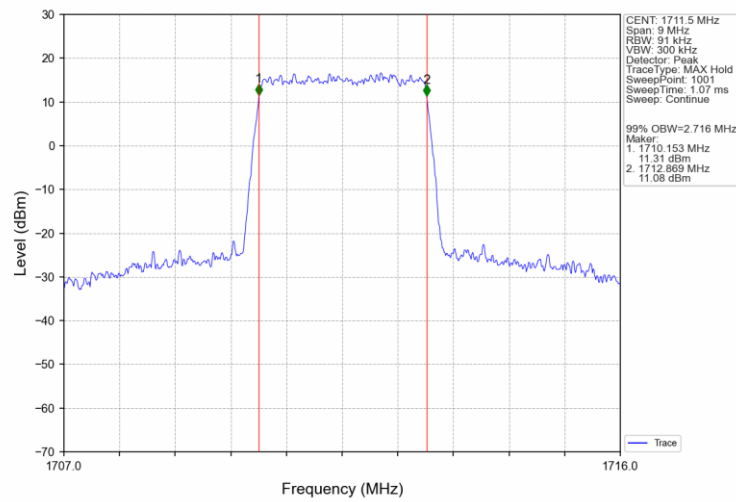
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



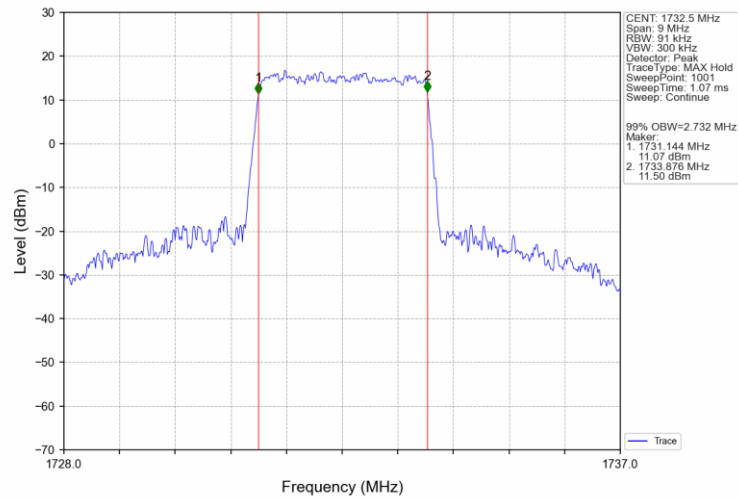
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



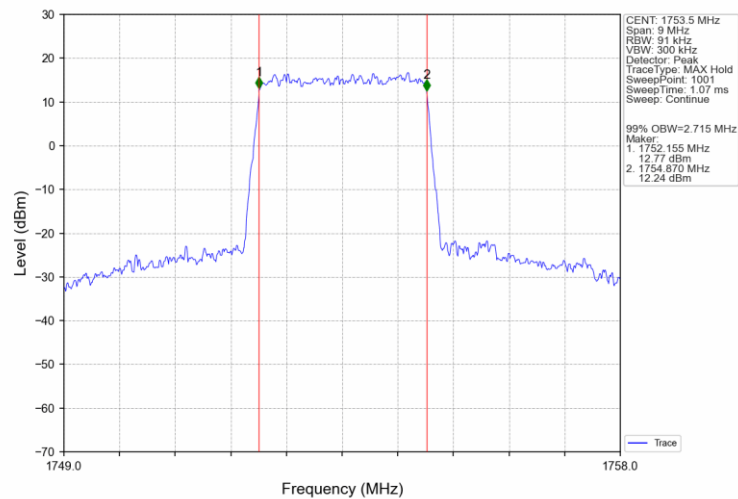
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



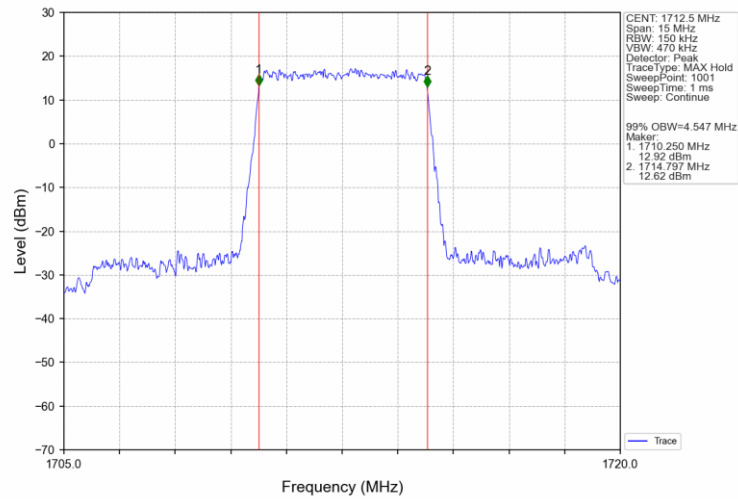
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



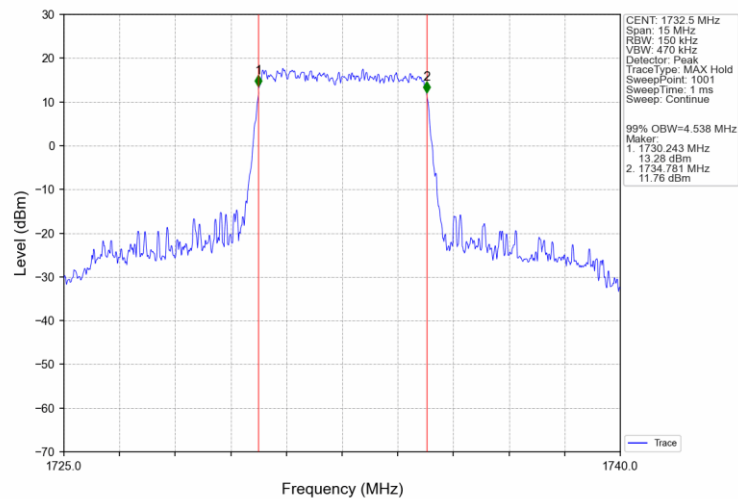
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



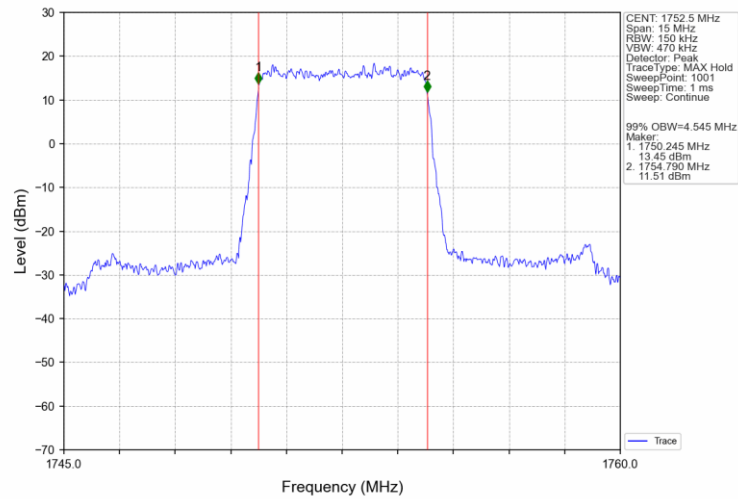
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



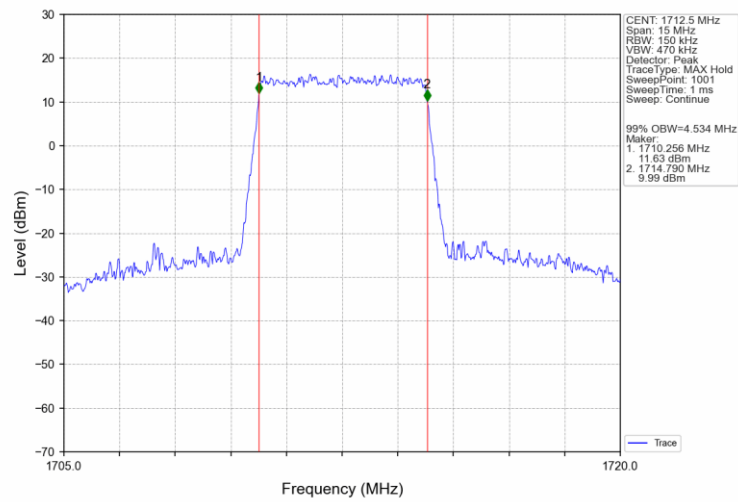
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



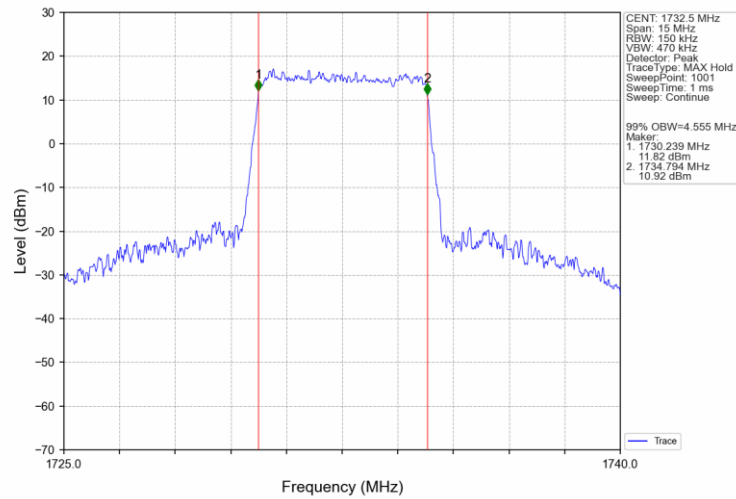
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



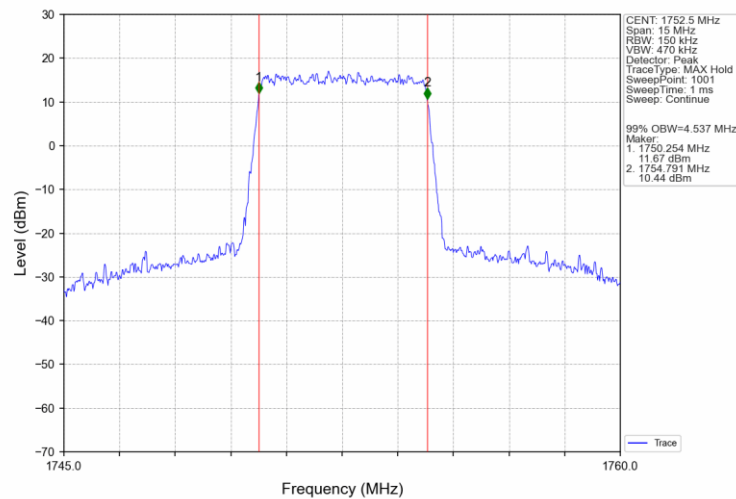
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



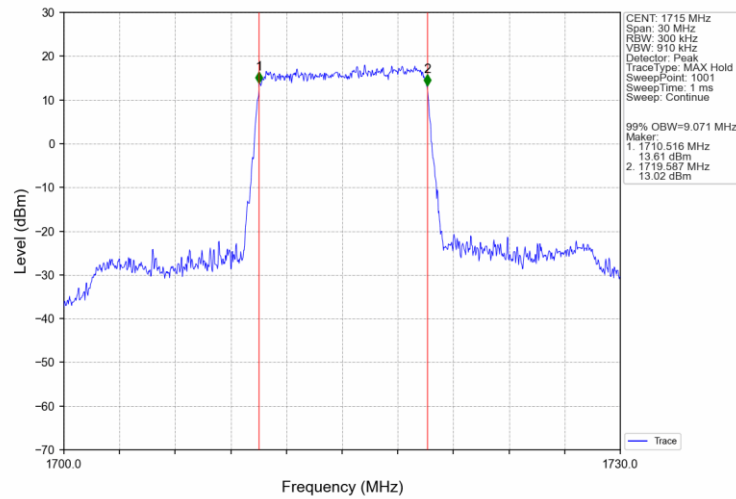
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



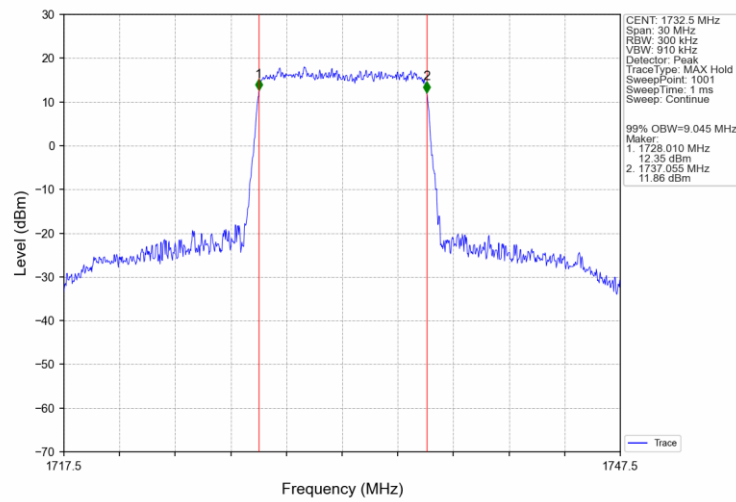
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



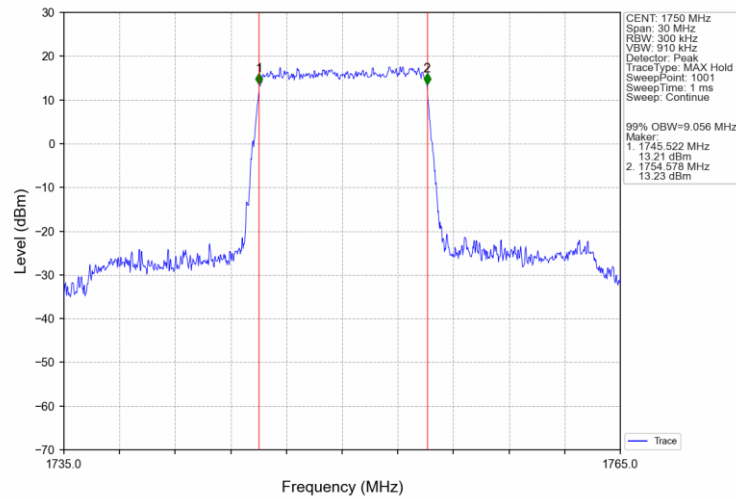
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



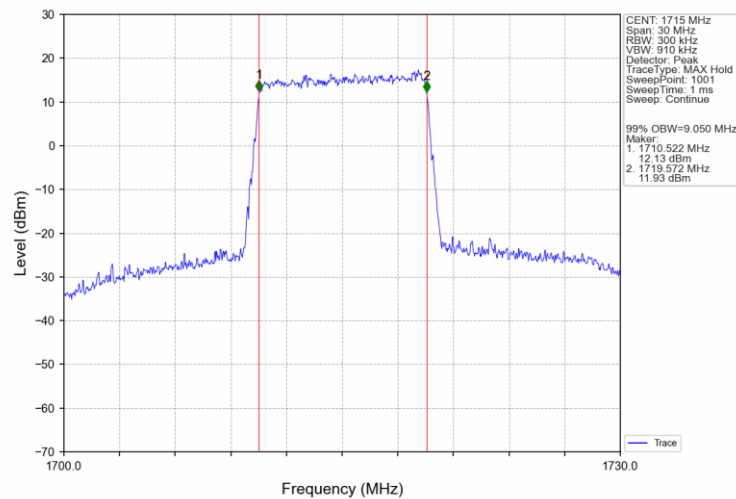
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



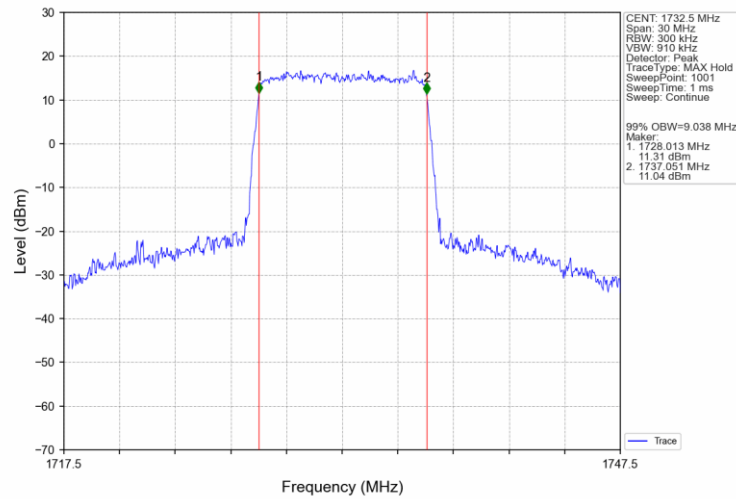
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



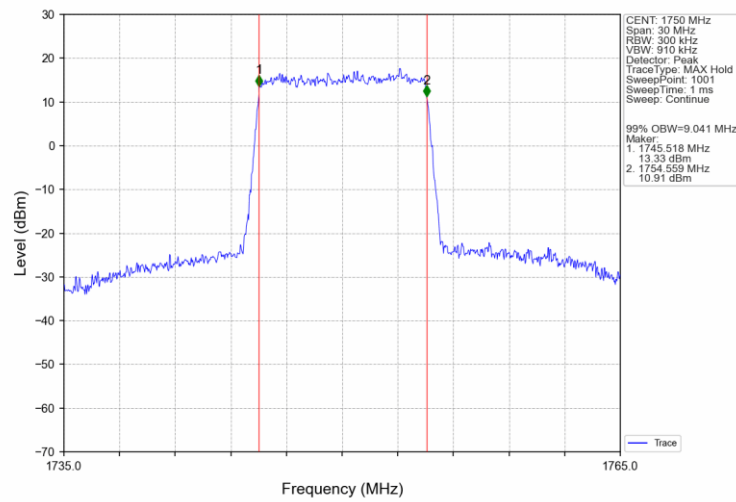
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



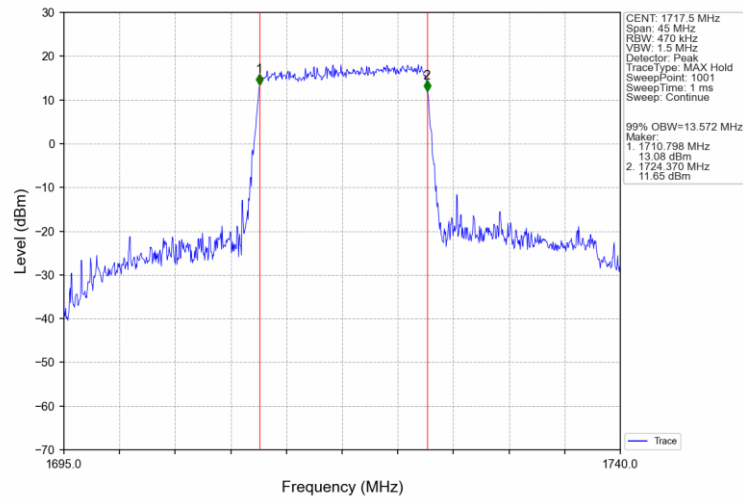
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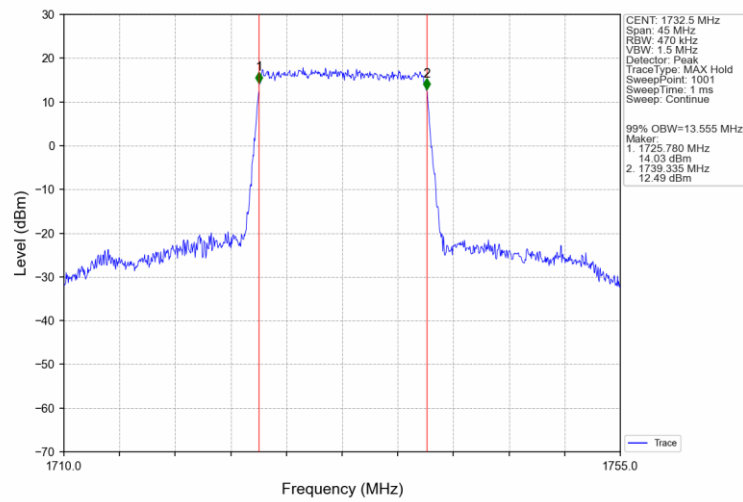
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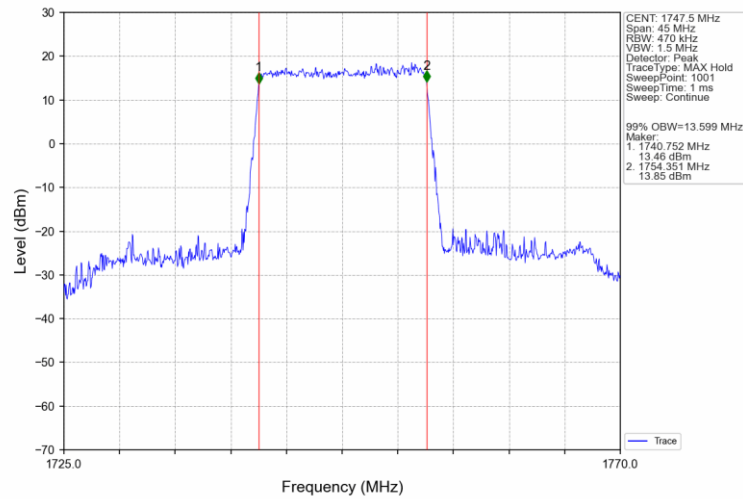
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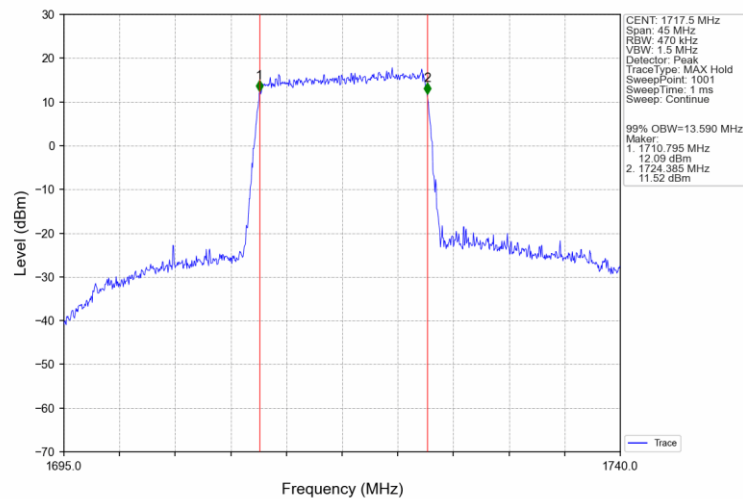
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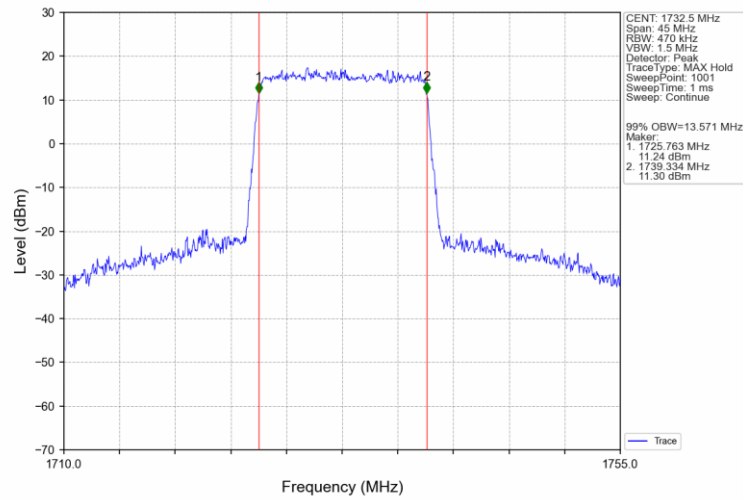
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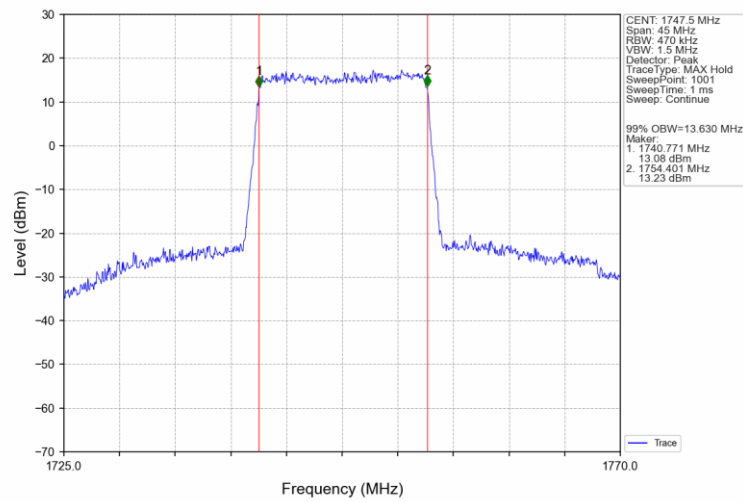
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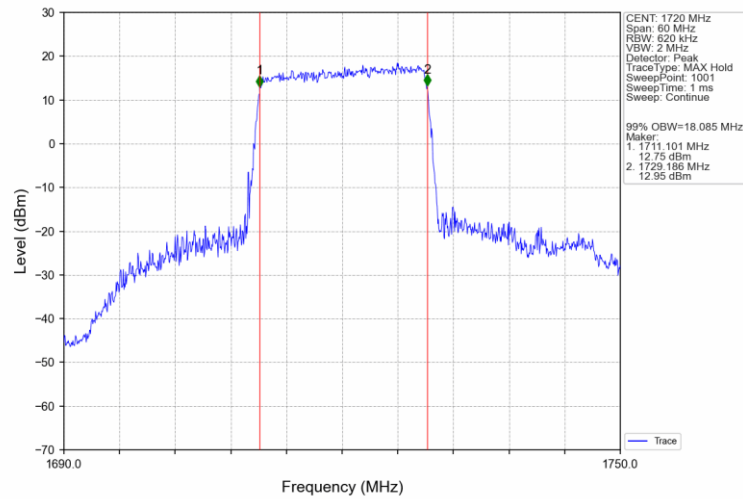
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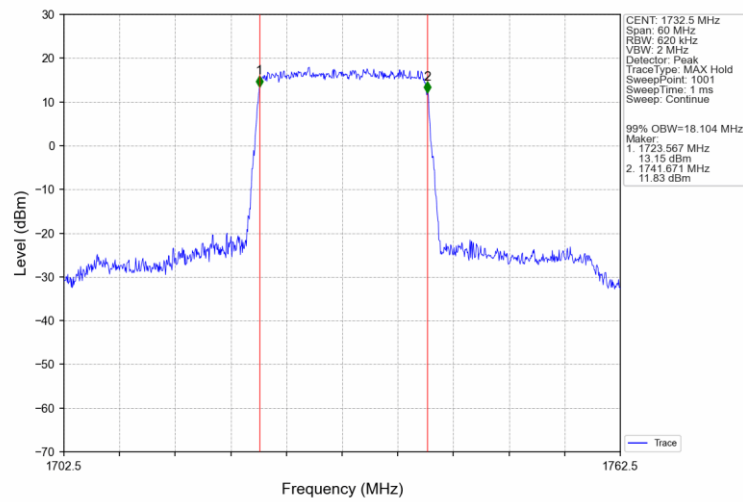
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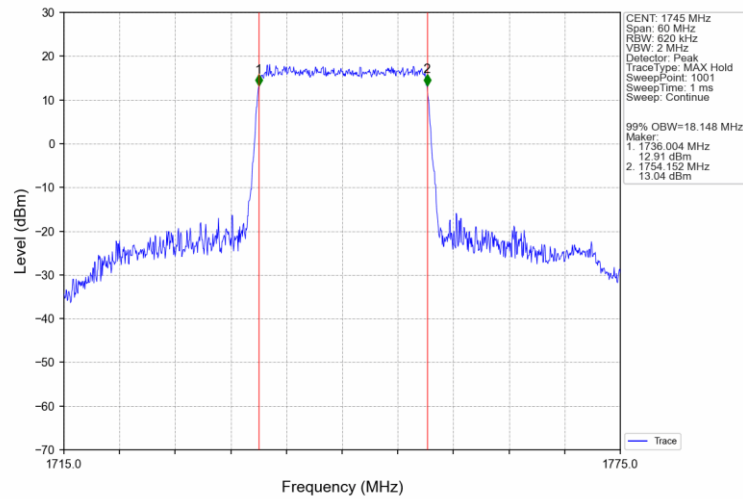
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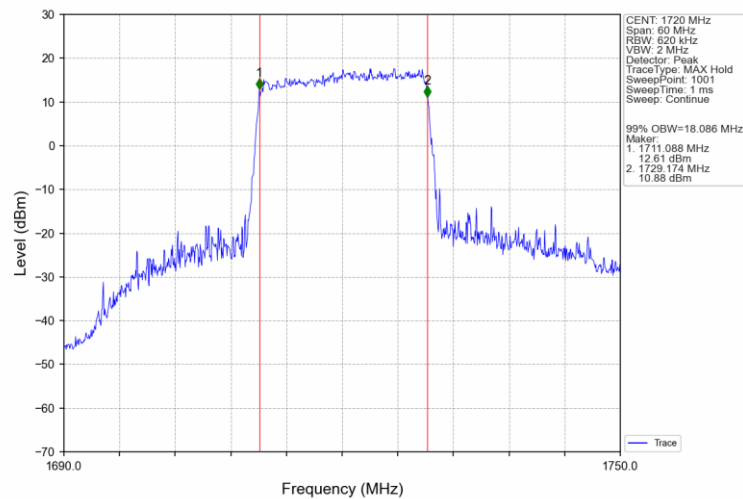
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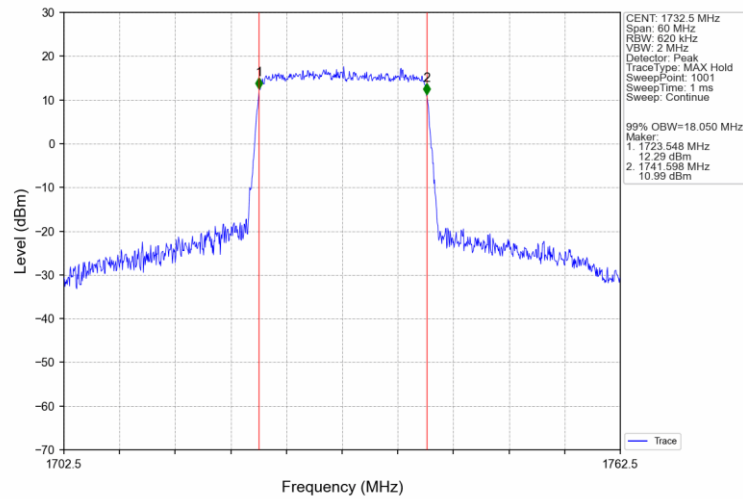
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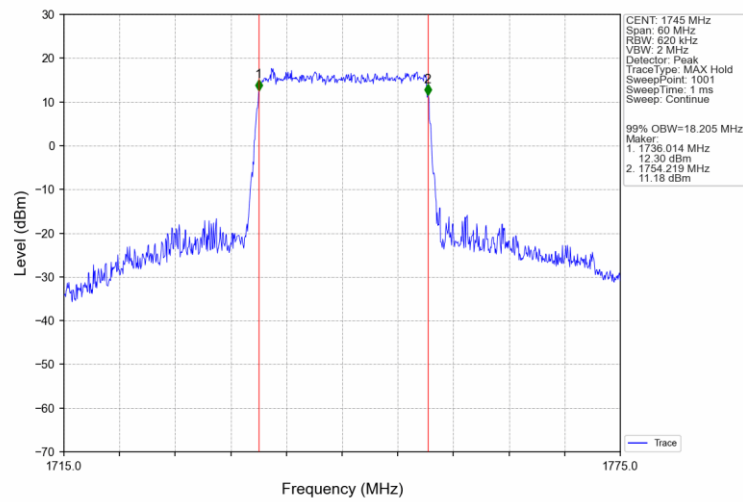
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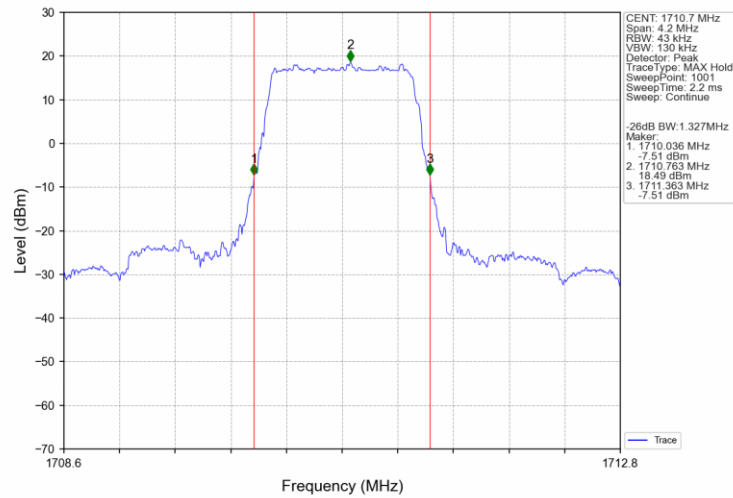


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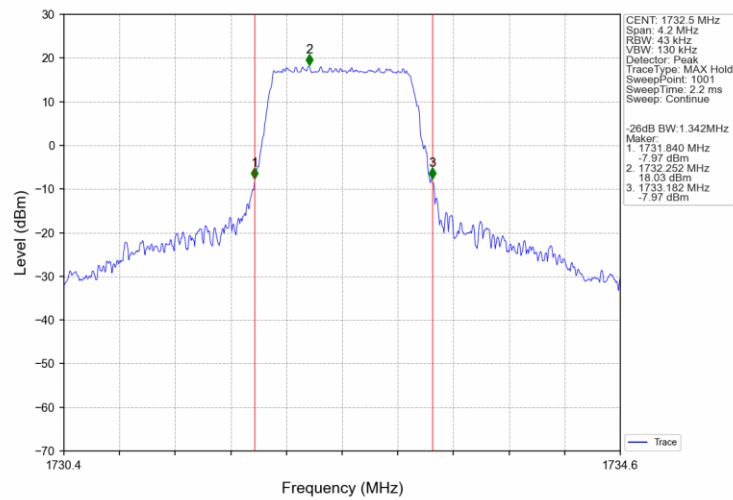


4.2.2 Band4_XDB

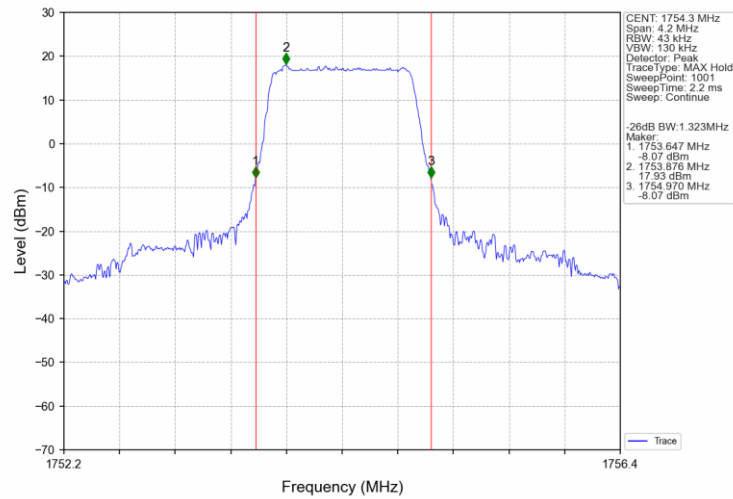
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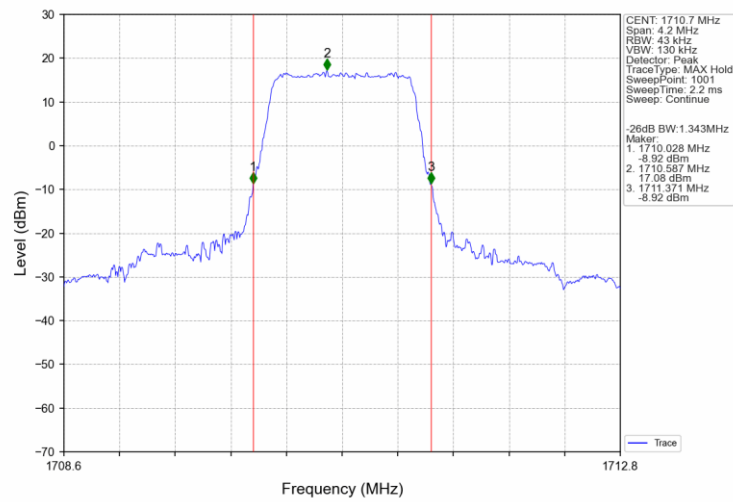
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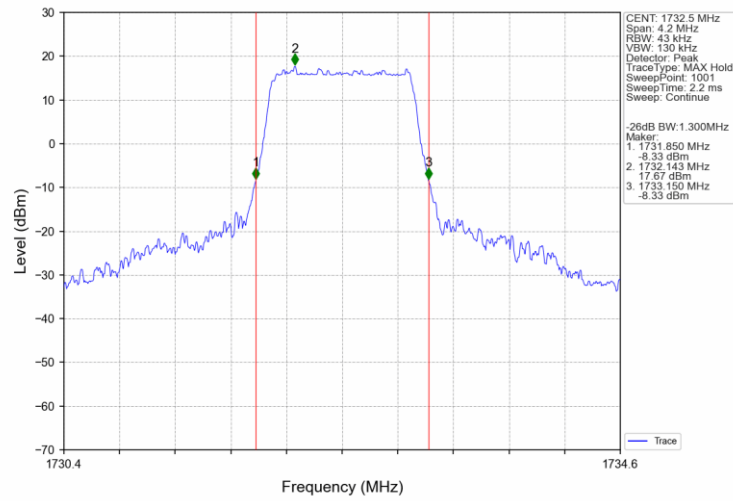
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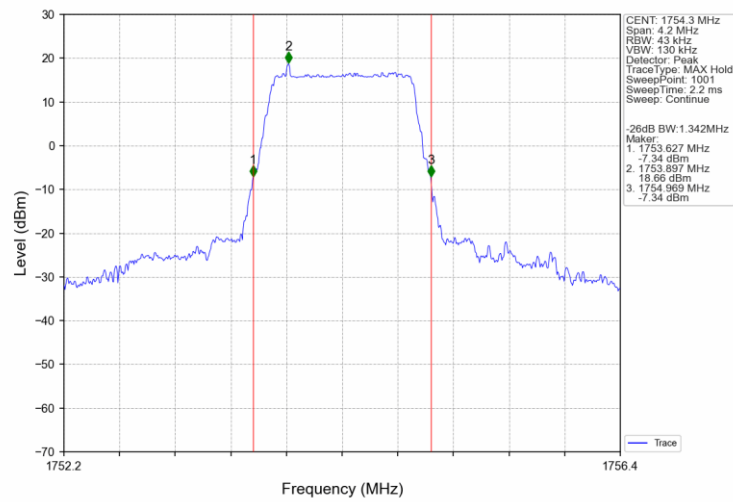
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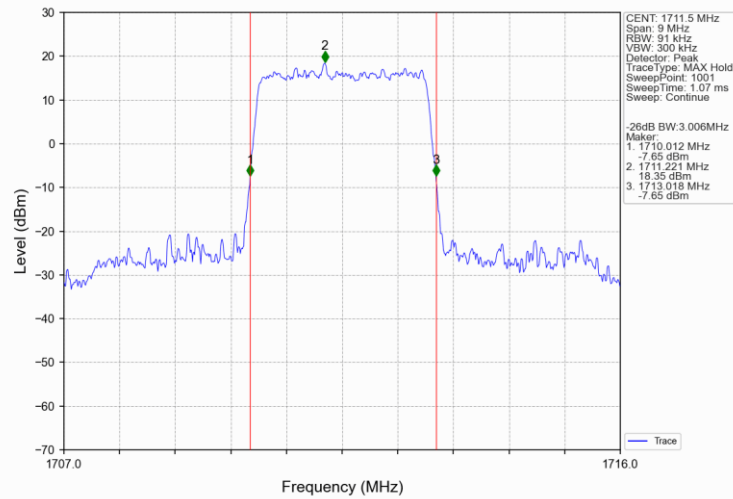
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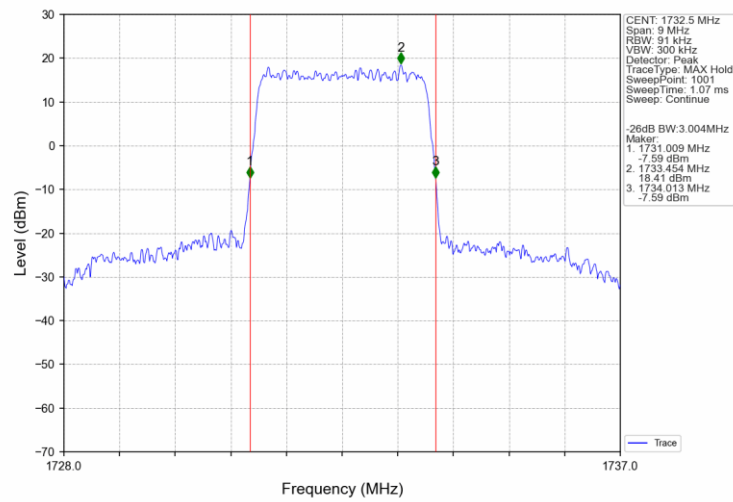
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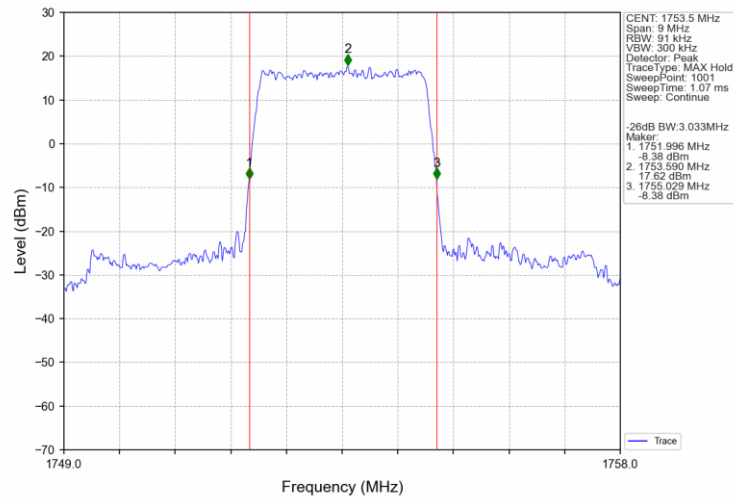
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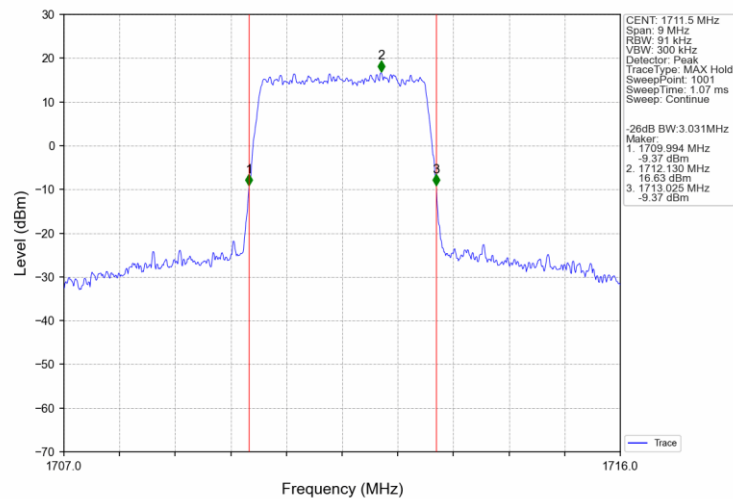
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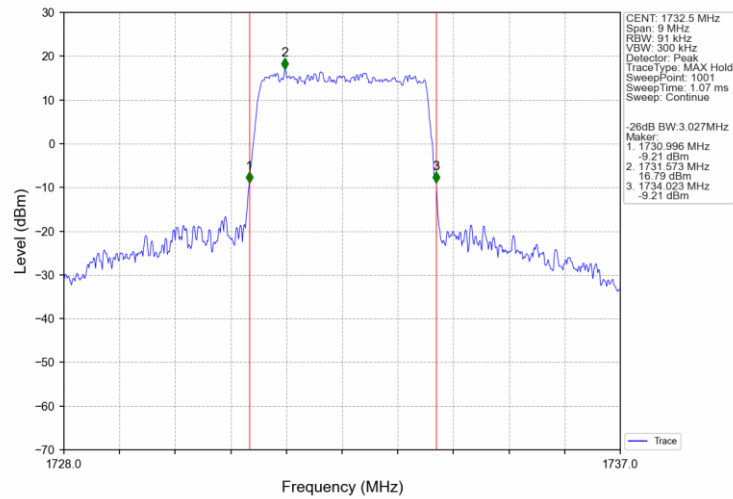
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Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV

