

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	22.97	2.26	25.23	<=30	Pass
			2	23.09	2.26	25.35	<=30	Pass
			5	22.93	2.26	25.19	<=30	Pass
		3	0	23.02	2.26	25.28	<=30	Pass
			2	23.04	2.26	25.30	<=30	Pass
			3	23.06	2.26	25.32	<=30	Pass
		6	0	21.95	2.26	24.21	<=30	Pass
	1732.5	1	0	22.97	2.26	25.23	<=30	Pass
			2	23.04	2.26	25.30	<=30	Pass
			5	22.90	2.26	25.16	<=30	Pass
		3	0	23.07	2.26	25.33	<=30	Pass
			2	23.10	2.26	25.36	<=30	Pass
			3	23.05	2.26	25.31	<=30	Pass
		6	0	22.00	2.26	24.26	<=30	Pass
	1754.3	1	0	22.71	2.26	24.97	<=30	Pass
			2	22.84	2.26	25.10	<=30	Pass
			5	22.73	2.26	24.99	<=30	Pass
		3	0	22.88	2.26	25.14	<=30	Pass
			2	22.89	2.26	25.15	<=30	Pass
			3	22.85	2.26	25.11	<=30	Pass
		6	0	21.81	2.26	24.07	<=30	Pass
16QAM	1710.7	1	0	21.93	2.26	24.19	<=30	Pass
			2	22.06	2.26	24.32	<=30	Pass
			5	21.96	2.26	24.22	<=30	Pass
		3	0	22.13	2.26	24.39	<=30	Pass
			2	22.12	2.26	24.38	<=30	Pass
			3	22.13	2.26	24.39	<=30	Pass
		6	0	20.90	2.26	23.16	<=30	Pass
	1732.5	1	0	22.13	2.26	24.39	<=30	Pass
			2	22.24	2.26	24.50	<=30	Pass
			5	22.14	2.26	24.40	<=30	Pass
		3	0	22.03	2.26	24.29	<=30	Pass
			2	22.09	2.26	24.35	<=30	Pass
			3	22.08	2.26	24.34	<=30	Pass
		6	0	21.04	2.26	23.30	<=30	Pass
	1754.3	1	0	21.75	2.26	24.01	<=30	Pass
			2	21.85	2.26	24.11	<=30	Pass
			5	21.71	2.26	23.97	<=30	Pass
		3	0	22.01	2.26	24.27	<=30	Pass
			2	22.06	2.26	24.32	<=30	Pass
			3	22.03	2.26	24.29	<=30	Pass
		6	0	20.82	2.26	23.08	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	23.06	2.26	25.32	<=30	Pass
			7	23.16	2.26	25.42	<=30	Pass
			14	23.07	2.26	25.33	<=30	Pass
		8	0	22.02	2.26	24.28	<=30	Pass
			4	22.03	2.26	24.29	<=30	Pass
			7	22.03	2.26	24.29	<=30	Pass
		15	0	22.02	2.26	24.28	<=30	Pass
	1732.5	1	0	23.02	2.26	25.28	<=30	Pass
			7	23.17	2.26	25.43	<=30	Pass
			14	22.96	2.26	25.22	<=30	Pass
		8	0	22.07	2.26	24.33	<=30	Pass
			4	22.08	2.26	24.34	<=30	Pass
			7	22.00	2.26	24.26	<=30	Pass
		15	0	22.04	2.26	24.30	<=30	Pass
	1753.5	1	0	22.78	2.26	25.04	<=30	Pass
			7	22.90	2.26	25.16	<=30	Pass
			14	22.75	2.26	25.01	<=30	Pass
		8	0	21.77	2.26	24.03	<=30	Pass
			4	21.80	2.26	24.06	<=30	Pass
			7	21.78	2.26	24.04	<=30	Pass
		15	0	21.80	2.26	24.06	<=30	Pass
16QAM	1711.5	1	0	22.11	2.26	24.37	<=30	Pass
			7	22.15	2.26	24.41	<=30	Pass
			14	22.06	2.26	24.32	<=30	Pass
		8	0	21.04	2.26	23.30	<=30	Pass
			4	21.15	2.26	23.41	<=30	Pass
			7	21.11	2.26	23.37	<=30	Pass
		15	0	21.07	2.26	23.33	<=30	Pass
	1732.5	1	0	22.22	2.26	24.48	<=30	Pass
			7	22.37	2.26	24.63	<=30	Pass
			14	22.18	2.26	24.44	<=30	Pass
		8	0	21.03	2.26	23.29	<=30	Pass
			4	21.04	2.26	23.30	<=30	Pass
			7	21.00	2.26	23.26	<=30	Pass
		15	0	21.01	2.26	23.27	<=30	Pass
	1753.5	1	0	22.36	2.26	24.62	<=30	Pass
			7	22.47	2.26	24.73	<=30	Pass
			14	22.33	2.26	24.59	<=30	Pass
		8	0	20.92	2.26	23.18	<=30	Pass
			4	20.99	2.26	23.25	<=30	Pass
			7	20.95	2.26	23.21	<=30	Pass
		15	0	20.84	2.26	23.10	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	22.88	2.26	25.14	<=30	Pass
			13	23.04	2.26	25.30	<=30	Pass
			24	22.90	2.26	25.16	<=30	Pass
		12	0	21.90	2.26	24.16	<=30	Pass
			6	22.00	2.26	24.26	<=30	Pass
			13	22.02	2.26	24.28	<=30	Pass
		25	0	21.96	2.26	24.22	<=30	Pass
	1732.5	1	0	22.94	2.26	25.20	<=30	Pass
			13	22.97	2.26	25.23	<=30	Pass
			24	22.85	2.26	25.11	<=30	Pass
		12	0	22.03	2.26	24.29	<=30	Pass
			6	22.01	2.26	24.27	<=30	Pass
			13	21.87	2.26	24.13	<=30	Pass
		25	0	21.94	2.26	24.20	<=30	Pass
	1752.5	1	0	22.65	2.26	24.91	<=30	Pass
			13	22.74	2.26	25.00	<=30	Pass
			24	22.64	2.26	24.90	<=30	Pass
		12	0	21.65	2.26	23.91	<=30	Pass
			6	21.75	2.26	24.01	<=30	Pass
			13	21.74	2.26	24.00	<=30	Pass
		25	0	21.71	2.26	23.97	<=30	Pass
16QAM	1712.5	1	0	21.95	2.26	24.21	<=30	Pass
			13	22.15	2.26	24.41	<=30	Pass
			24	22.00	2.26	24.26	<=30	Pass
		12	0	20.83	2.26	23.09	<=30	Pass
			6	20.96	2.26	23.22	<=30	Pass
			13	20.94	2.26	23.20	<=30	Pass
		25	0	20.97	2.26	23.23	<=30	Pass
	1732.5	1	0	22.20	2.26	24.46	<=30	Pass
			13	22.30	2.26	24.56	<=30	Pass
			24	22.15	2.26	24.41	<=30	Pass
		12	0	21.05	2.26	23.31	<=30	Pass
			6	21.05	2.26	23.31	<=30	Pass
			13	20.91	2.26	23.17	<=30	Pass
		25	0	20.96	2.26	23.22	<=30	Pass
	1752.5	1	0	21.54	2.26	23.80	<=30	Pass
			13	21.64	2.26	23.90	<=30	Pass
			24	21.52	2.26	23.78	<=30	Pass
		12	0	20.69	2.26	22.95	<=30	Pass
			6	20.75	2.26	23.01	<=30	Pass
			13	20.68	2.26	22.94	<=30	Pass
		25	0	20.73	2.26	22.99	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	22.95	2.26	25.21	<=30	Pass
			25	23.15	2.26	25.41	<=30	Pass
			49	22.93	2.26	25.19	<=30	Pass
		25	0	21.91	2.26	24.17	<=30	Pass
			13	22.05	2.26	24.31	<=30	Pass
			25	22.05	2.26	24.31	<=30	Pass
		50	0	22.01	2.26	24.27	<=30	Pass
			0	22.90	2.26	25.16	<=30	Pass
			25	23.09	2.26	25.35	<=30	Pass
	1732.5	1	49	22.81	2.26	25.07	<=30	Pass
			0	22.16	2.26	24.42	<=30	Pass
			13	22.05	2.26	24.31	<=30	Pass
		25	25	21.91	2.26	24.17	<=30	Pass
			0	22.01	2.26	24.27	<=30	Pass
			0	22.66	2.26	24.92	<=30	Pass
		25	25	22.89	2.26	25.15	<=30	Pass
			49	22.65	2.26	24.91	<=30	Pass
			0	21.77	2.26	24.03	<=30	Pass
	1750	25	13	21.82	2.26	24.08	<=30	Pass
			25	21.85	2.26	24.11	<=30	Pass
			0	21.81	2.26	24.07	<=30	Pass
16QAM	1715	1	0	21.96	2.26	24.22	<=30	Pass
			25	22.19	2.26	24.45	<=30	Pass
			49	21.99	2.26	24.25	<=30	Pass
		12	0	21.97	2.26	24.23	<=30	Pass
			19	22.11	2.26	24.37	<=30	Pass
			38	22.04	2.26	24.30	<=30	Pass
		27	0	20.98	2.26	23.24	<=30	Pass
			0	22.17	2.26	24.43	<=30	Pass
			25	22.34	2.26	24.60	<=30	Pass
	1732.5	1	49	22.00	2.26	24.26	<=30	Pass
			0	22.09	2.26	24.35	<=30	Pass
			19	22.10	2.26	24.36	<=30	Pass
		12	38	21.91	2.26	24.17	<=30	Pass
			0	21.21	2.26	23.47	<=30	Pass
			0	22.32	2.26	24.58	<=30	Pass
		27	25	22.53	2.26	24.79	<=30	Pass
			49	22.19	2.26	24.45	<=30	Pass
			0	21.85	2.26	24.11	<=30	Pass
	1750	12	19	21.89	2.26	24.15	<=30	Pass
			38	21.80	2.26	24.06	<=30	Pass
			23	20.82	2.26	23.08	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	22.77	2.26	25.03	<=30	Pass
			38	22.97	2.26	25.23	<=30	Pass
			74	22.85	2.26	25.11	<=30	Pass
		36	0	21.89	2.26	24.15	<=30	Pass
			18	21.99	2.26	24.25	<=30	Pass
			39	21.99	2.26	24.25	<=30	Pass
		75	0	21.93	2.26	24.19	<=30	Pass
	1732.5	1	0	22.83	2.26	25.09	<=30	Pass
			38	22.96	2.26	25.22	<=30	Pass
			74	22.66	2.26	24.92	<=30	Pass
		36	0	22.08	2.26	24.34	<=30	Pass
			18	21.97	2.26	24.23	<=30	Pass
			39	21.83	2.26	24.09	<=30	Pass
		75	0	21.93	2.26	24.19	<=30	Pass
	1747.5	1	0	22.61	2.26	24.87	<=30	Pass
			38	22.71	2.26	24.97	<=30	Pass
			74	22.45	2.26	24.71	<=30	Pass
		36	0	21.73	2.26	23.99	<=30	Pass
			18	21.78	2.26	24.04	<=30	Pass
			39	21.77	2.26	24.03	<=30	Pass
		75	0	21.74	2.26	24.00	<=30	Pass
16QAM	1717.5	1	0	22.19	2.26	24.45	<=30	Pass
			38	22.38	2.26	24.64	<=30	Pass
			74	22.28	2.26	24.54	<=30	Pass
		12	0	21.78	2.26	24.04	<=30	Pass
			31	21.96	2.26	24.22	<=30	Pass
			63	21.85	2.26	24.11	<=30	Pass
		27	0	20.82	2.26	23.08	<=30	Pass
	1732.5	1	0	22.02	2.26	24.28	<=30	Pass
			38	22.15	2.26	24.41	<=30	Pass
			74	21.89	2.26	24.15	<=30	Pass
		12	0	21.93	2.26	24.19	<=30	Pass
			31	22.04	2.26	24.30	<=30	Pass
			63	21.80	2.26	24.06	<=30	Pass
		27	0	21.02	2.26	23.28	<=30	Pass
	1747.5	1	0	22.27	2.26	24.53	<=30	Pass
			38	22.37	2.26	24.63	<=30	Pass
			74	22.07	2.26	24.33	<=30	Pass
		12	0	21.77	2.26	24.03	<=30	Pass
			31	21.88	2.26	24.14	<=30	Pass
			63	21.67	2.26	23.93	<=30	Pass
		27	48	20.62	2.26	22.88	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTVN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1720	1	0	22.59	2.26	24.85	<=30	Pass		
			50	23.13	2.26	25.39	<=30	Pass		
			99	22.66	2.26	24.92	<=30	Pass		
		50	0	21.87	2.26	24.13	<=30	Pass		
			25	22.00	2.26	24.26	<=30	Pass		
			50	21.89	2.26	24.15	<=30	Pass		
		100	0	21.92	2.26	24.18	<=30	Pass		
		1732.5	1	0	22.76	2.26	25.02	<=30	Pass	
				50	23.12	2.26	25.38	<=30	Pass	
	99			22.55	2.26	24.81	<=30	Pass		
	50		0	22.20	2.26	24.46	<=30	Pass		
			25	22.01	2.26	24.27	<=30	Pass		
			50	21.79	2.26	24.05	<=30	Pass		
	100		0	22.06	2.26	24.32	<=30	Pass		
	1745		1	0	22.52	2.26	24.78	<=30	Pass	
				50	22.89	2.26	25.15	<=30	Pass	
		99		22.39	2.26	24.65	<=30	Pass		
		50	0	21.93	2.26	24.19	<=30	Pass		
			25	21.83	2.26	24.09	<=30	Pass		
			50	21.88	2.26	24.14	<=30	Pass		
		100	0	21.87	2.26	24.13	<=30	Pass		
		16QAM	1720	1	0	22.19	2.26	24.45	<=30	Pass
					50	22.71	2.26	24.97	<=30	Pass
	99				22.21	2.26	24.47	<=30	Pass	
	12			0	21.71	2.26	23.97	<=30	Pass	
				44	22.07	2.26	24.33	<=30	Pass	
				88	21.79	2.26	24.05	<=30	Pass	
27	0			20.82	2.26	23.08	<=30	Pass		
1732.5	1			0	21.94	2.26	24.20	<=30	Pass	
				50	22.37	2.26	24.63	<=30	Pass	
			99	21.75	2.26	24.01	<=30	Pass		
	12		0	21.77	2.26	24.03	<=30	Pass		
			44	21.98	2.26	24.24	<=30	Pass		
			88	21.61	2.26	23.87	<=30	Pass		
	27		0	20.94	2.26	23.20	<=30	Pass		
	1745		1	0	21.86	2.26	24.12	<=30	Pass	
				50	22.27	2.26	24.53	<=30	Pass	
99				21.67	2.26	23.93	<=30	Pass		
12			0	21.74	2.26	24.00	<=30	Pass		
			44	21.89	2.26	24.15	<=30	Pass		
			88	21.51	2.26	23.77	<=30	Pass		
27			73	20.65	2.26	22.91	<=30	Pass		
Note1: EIRP=Conducted Power+Antenna Gain										

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	3.15	-1.030	-0.0006	-2.5 to 2.5	Pass
					3.70	-11.315	-0.0066	-2.5 to 2.5	Pass
					4.26	-4.735	-0.0028	-2.5 to 2.5	Pass
				-30	3.70	0.143	0.0001	-2.5 to 2.5	Pass
				-20	3.70	-4.506	-0.0026	-2.5 to 2.5	Pass
				-10	3.70	-4.578	-0.0027	-2.5 to 2.5	Pass
				0	3.70	-1.559	-0.0009	-2.5 to 2.5	Pass
				10	3.70	-1.559	-0.0009	-2.5 to 2.5	Pass
				30	3.70	-6.237	-0.0036	-2.5 to 2.5	Pass
				40	3.70	-2.232	-0.0013	-2.5 to 2.5	Pass
				50	3.70	0.000	0.0000	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.15	-2.117	-0.0012	-2.5 to 2.5	Pass
					3.70	-3.576	-0.0021	-2.5 to 2.5	Pass
					4.26	0.172	0.0001	-2.5 to 2.5	Pass
				-30	3.70	-0.772	-0.0004	-2.5 to 2.5	Pass
				-20	3.70	0.057	0.0000	-2.5 to 2.5	Pass
				-10	3.70	-4.363	-0.0025	-2.5 to 2.5	Pass
				0	3.70	3.705	0.0021	-2.5 to 2.5	Pass
				10	3.70	-0.229	-0.0001	-2.5 to 2.5	Pass
				30	3.70	-6.280	-0.0036	-2.5 to 2.5	Pass
				40	3.70	-3.548	-0.0020	-2.5 to 2.5	Pass
				50	3.70	-5.965	-0.0034	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.15	-2.604	-0.0015	-2.5 to 2.5	Pass
					3.70	-3.548	-0.0020	-2.5 to 2.5	Pass
					4.26	-5.250	-0.0030	-2.5 to 2.5	Pass
				-30	3.70	-7.668	-0.0044	-2.5 to 2.5	Pass
				-20	3.70	-2.546	-0.0015	-2.5 to 2.5	Pass
				-10	3.70	-5.522	-0.0031	-2.5 to 2.5	Pass
				0	3.70	-0.901	-0.0005	-2.5 to 2.5	Pass
				10	3.70	-2.489	-0.0014	-2.5 to 2.5	Pass
				30	3.70	-8.883	-0.0051	-2.5 to 2.5	Pass
				40	3.70	-5.307	-0.0030	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.15	-2.689	-0.0016	-2.5 to 2.5	Pass
					3.70	0.272	0.0002	-2.5 to 2.5	Pass
					4.26	-5.693	-0.0033	-2.5 to 2.5	Pass
				-30	3.70	-3.948	-0.0023	-2.5 to 2.5	Pass
				-20	3.70	-8.583	-0.0050	-2.5 to 2.5	Pass
				-10	3.70	-6.151	-0.0036	-2.5 to 2.5	Pass
				0	3.70	-4.950	-0.0029	-2.5 to 2.5	Pass
				10	3.70	-8.683	-0.0051	-2.5 to 2.5	Pass
				30	3.70	-7.110	-0.0042	-2.5 to 2.5	Pass
				40	3.70	-1.173	-0.0007	-2.5 to 2.5	Pass
				50	3.70	-6.251	-0.0037	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.15	-6.223	-0.0036	-2.5 to 2.5	Pass
					3.70	-7.710	-0.0045	-2.5 to 2.5	Pass
					4.26	-8.540	-0.0049	-2.5 to 2.5	Pass
				-30	3.70	-3.619	-0.0021	-2.5 to 2.5	Pass
				-20	3.70	-5.178	-0.0030	-2.5 to 2.5	Pass
				-10	3.70	-2.432	-0.0014	-2.5 to 2.5	Pass

				0	3.70	-7.896	-0.0046	-2.5 to 2.5	Pass
				10	3.70	-5.178	-0.0030	-2.5 to 2.5	Pass
				30	3.70	-4.148	-0.0024	-2.5 to 2.5	Pass
				40	3.70	-10.386	-0.0060	-2.5 to 2.5	Pass
				50	3.70	-3.419	-0.0020	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.15	0.100	0.0001	-2.5 to 2.5	Pass
					3.70	-3.090	-0.0018	-2.5 to 2.5	Pass
					4.26	-4.277	-0.0024	-2.5 to 2.5	Pass
				-30	3.70	0.515	0.0003	-2.5 to 2.5	Pass
				-20	3.70	-10.157	-0.0058	-2.5 to 2.5	Pass
				-10	3.70	-3.104	-0.0018	-2.5 to 2.5	Pass
				0	3.70	0.701	0.0004	-2.5 to 2.5	Pass
				10	3.70	4.950	0.0028	-2.5 to 2.5	Pass
				30	3.70	-6.824	-0.0039	-2.5 to 2.5	Pass
				40	3.70	-7.968	-0.0045	-2.5 to 2.5	Pass
				50	3.70	1.788	0.0010	-2.5 to 2.5	Pass

2.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1711.5	15	0	20	3.15	-7.110	-0.0042	-2.5 to 2.5	Pass
					3.70	-6.709	-0.0039	-2.5 to 2.5	Pass
					4.26	1.044	0.0006	-2.5 to 2.5	Pass
				-30	3.70	0.243	0.0001	-2.5 to 2.5	Pass
				-20	3.70	-1.259	-0.0007	-2.5 to 2.5	Pass
				-10	3.70	-0.730	-0.0004	-2.5 to 2.5	Pass
				0	3.70	-4.592	-0.0027	-2.5 to 2.5	Pass
				10	3.70	-5.364	-0.0031	-2.5 to 2.5	Pass
				30	3.70	1.531	0.0009	-2.5 to 2.5	Pass
				40	3.70	0.858	0.0005	-2.5 to 2.5	Pass
				50	3.70	0.401	0.0002	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.15	-7.625	-0.0044	-2.5 to 2.5	Pass
					3.70	-7.610	-0.0044	-2.5 to 2.5	Pass
					4.26	-5.436	-0.0031	-2.5 to 2.5	Pass
				-30	3.70	-5.636	-0.0033	-2.5 to 2.5	Pass
				-20	3.70	-3.991	-0.0023	-2.5 to 2.5	Pass
				-10	3.70	0.129	0.0001	-2.5 to 2.5	Pass
				0	3.70	1.545	0.0009	-2.5 to 2.5	Pass
				10	3.70	-1.216	-0.0007	-2.5 to 2.5	Pass
				30	3.70	-1.945	-0.0011	-2.5 to 2.5	Pass
				40	3.70	-5.608	-0.0032	-2.5 to 2.5	Pass
				50	3.70	-5.207	-0.0030	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.15	-2.718	-0.0016	-2.5 to 2.5	Pass
					3.70	-12.145	-0.0069	-2.5 to 2.5	Pass
					4.26	-3.376	-0.0019	-2.5 to 2.5	Pass
				-30	3.70	-3.948	-0.0023	-2.5 to 2.5	Pass
				-20	3.70	-6.766	-0.0039	-2.5 to 2.5	Pass
				-10	3.70	-1.044	-0.0006	-2.5 to 2.5	Pass
				0	3.70	-1.788	-0.0010	-2.5 to 2.5	Pass
				10	3.70	-5.593	-0.0032	-2.5 to 2.5	Pass
				30	3.70	1.631	0.0009	-2.5 to 2.5	Pass
				40	3.70	-1.431	-0.0008	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.15	-8.554	-0.0050	-2.5 to 2.5	Pass
					3.70	-4.678	-0.0027	-2.5 to 2.5	Pass
					4.26	-3.762	-0.0022	-2.5 to 2.5	Pass
				-30	3.70	-1.545	-0.0009	-2.5 to 2.5	Pass
				-20	3.70	-12.217	-0.0071	-2.5 to 2.5	Pass
				-10	3.70	-7.339	-0.0043	-2.5 to 2.5	Pass
				0	3.70	-6.080	-0.0036	-2.5 to 2.5	Pass
				10	3.70	-8.883	-0.0052	-2.5 to 2.5	Pass
				30	3.70	-0.486	-0.0003	-2.5 to 2.5	Pass
				40	3.70	-1.187	-0.0007	-2.5 to 2.5	Pass
				50	3.70	-8.612	-0.0050	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.15	-2.575	-0.0015	-2.5 to 2.5	Pass
					3.70	-4.807	-0.0028	-2.5 to 2.5	Pass
					4.26	1.674	0.0010	-2.5 to 2.5	Pass
				-30	3.70	-7.524	-0.0043	-2.5 to 2.5	Pass
				-20	3.70	-7.310	-0.0042	-2.5 to 2.5	Pass
				-10	3.70	-0.715	-0.0004	-2.5 to 2.5	Pass
				0	3.70	1.888	0.0011	-2.5 to 2.5	Pass
				10	3.70	-3.705	-0.0021	-2.5 to 2.5	Pass
				30	3.70	-2.475	-0.0014	-2.5 to 2.5	Pass
				40	3.70	-9.942	-0.0057	-2.5 to 2.5	Pass
				50	3.70	-6.437	-0.0037	-2.5 to 2.5	Pass

	1753.5	15	0	20	3.15	-7.424	-0.0042	-2.5 to 2.5	Pass
					3.70	-4.163	-0.0024	-2.5 to 2.5	Pass
					4.26	-7.024	-0.0040	-2.5 to 2.5	Pass
				-30	3.70	-11.344	-0.0065	-2.5 to 2.5	Pass
				-20	3.70	1.202	0.0007	-2.5 to 2.5	Pass
				-10	3.70	-6.952	-0.0040	-2.5 to 2.5	Pass
				0	3.70	-14.877	-0.0085	-2.5 to 2.5	Pass
				10	3.70	-2.861	-0.0016	-2.5 to 2.5	Pass
				30	3.70	-1.059	-0.0006	-2.5 to 2.5	Pass
				40	3.70	-6.437	-0.0037	-2.5 to 2.5	Pass
				50	3.70	-9.799	-0.0056	-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	3.15	-2.289	-0.0013	-2.5 to 2.5	Pass
					3.70	-5.751	-0.0034	-2.5 to 2.5	Pass
					4.26	-2.360	-0.0014	-2.5 to 2.5	Pass
				-30	3.70	0.014	0.0000	-2.5 to 2.5	Pass
				-20	3.70	-1.788	-0.0010	-2.5 to 2.5	Pass
				-10	3.70	-9.971	-0.0058	-2.5 to 2.5	Pass
				0	3.70	-3.963	-0.0023	-2.5 to 2.5	Pass
				10	3.70	-1.001	-0.0006	-2.5 to 2.5	Pass
				30	3.70	-1.988	-0.0012	-2.5 to 2.5	Pass
				40	3.70	-1.388	-0.0008	-2.5 to 2.5	Pass
				50	3.70	-1.373	-0.0008	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.15	-7.067	-0.0041	-2.5 to 2.5	Pass
					3.70	-6.795	-0.0039	-2.5 to 2.5	Pass
					4.26	-4.349	-0.0025	-2.5 to 2.5	Pass
				-30	3.70	-6.008	-0.0035	-2.5 to 2.5	Pass
				-20	3.70	-4.320	-0.0025	-2.5 to 2.5	Pass
				-10	3.70	-0.329	-0.0002	-2.5 to 2.5	Pass
				0	3.70	-2.975	-0.0017	-2.5 to 2.5	Pass
				10	3.70	-2.661	-0.0015	-2.5 to 2.5	Pass
				30	3.70	-6.909	-0.0040	-2.5 to 2.5	Pass
				40	3.70	-7.696	-0.0044	-2.5 to 2.5	Pass
				50	3.70	-5.980	-0.0035	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.15	-6.652	-0.0038	-2.5 to 2.5	Pass
					3.70	-9.656	-0.0055	-2.5 to 2.5	Pass
					4.26	-5.307	-0.0030	-2.5 to 2.5	Pass
				-30	3.70	-4.578	-0.0026	-2.5 to 2.5	Pass
				-20	3.70	-10.271	-0.0059	-2.5 to 2.5	Pass
				-10	3.70	-6.208	-0.0035	-2.5 to 2.5	Pass
				0	3.70	-8.011	-0.0046	-2.5 to 2.5	Pass
				10	3.70	-9.041	-0.0052	-2.5 to 2.5	Pass
				30	3.70	-4.878	-0.0028	-2.5 to 2.5	Pass
				40	3.70	-4.277	-0.0024	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.15	-4.506	-0.0026	-2.5 to 2.5	Pass
					3.70	-3.619	-0.0021	-2.5 to 2.5	Pass
					4.26	-3.834	-0.0022	-2.5 to 2.5	Pass
				-30	3.70	-3.633	-0.0021	-2.5 to 2.5	Pass
				-20	3.70	-4.177	-0.0024	-2.5 to 2.5	Pass
				-10	3.70	-6.409	-0.0037	-2.5 to 2.5	Pass
				0	3.70	-1.774	-0.0010	-2.5 to 2.5	Pass
				10	3.70	3.090	0.0018	-2.5 to 2.5	Pass
				30	3.70	1.817	0.0011	-2.5 to 2.5	Pass
				40	3.70	-0.715	-0.0004	-2.5 to 2.5	Pass
				50	3.70	-1.259	-0.0007	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.15	-10.700	-0.0062	-2.5 to 2.5	Pass
					3.70	-4.234	-0.0024	-2.5 to 2.5	Pass
					4.26	-8.883	-0.0051	-2.5 to 2.5	Pass
				-30	3.70	-7.467	-0.0043	-2.5 to 2.5	Pass
				-20	3.70	-9.241	-0.0053	-2.5 to 2.5	Pass
				-10	3.70	-3.161	-0.0018	-2.5 to 2.5	Pass
				0	3.70	-0.186	-0.0001	-2.5 to 2.5	Pass
				10	3.70	-2.475	-0.0014	-2.5 to 2.5	Pass
				30	3.70	-7.467	-0.0043	-2.5 to 2.5	Pass
				40	3.70	-1.960	-0.0011	-2.5 to 2.5	Pass
				50	3.70	-5.307	-0.0031	-2.5 to 2.5	Pass

	1752.5	25	0	20	3.15	-6.123	-0.0035	-2.5 to 2.5	Pass
					3.70	-1.488	-0.0008	-2.5 to 2.5	Pass
					4.26	-9.227	-0.0053	-2.5 to 2.5	Pass
				-30	3.70	-6.552	-0.0037	-2.5 to 2.5	Pass
				-20	3.70	-6.466	-0.0037	-2.5 to 2.5	Pass
				-10	3.70	-3.104	-0.0018	-2.5 to 2.5	Pass
				0	3.70	-8.111	-0.0046	-2.5 to 2.5	Pass
				10	3.70	-7.353	-0.0042	-2.5 to 2.5	Pass
				30	3.70	-9.413	-0.0054	-2.5 to 2.5	Pass
				40	3.70	-5.164	-0.0029	-2.5 to 2.5	Pass
				50	3.70	-9.685	-0.0055	-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	3.15	-5.922	-0.0035	-2.5 to 2.5	Pass
					3.70	-3.018	-0.0018	-2.5 to 2.5	Pass
					4.26	-7.052	-0.0041	-2.5 to 2.5	Pass
				-30	3.70	-6.723	-0.0039	-2.5 to 2.5	Pass
				-20	3.70	-7.138	-0.0042	-2.5 to 2.5	Pass
				-10	3.70	-8.912	-0.0052	-2.5 to 2.5	Pass
				0	3.70	-4.692	-0.0027	-2.5 to 2.5	Pass
				10	3.70	-4.005	-0.0023	-2.5 to 2.5	Pass
				30	3.70	-9.298	-0.0054	-2.5 to 2.5	Pass
				40	3.70	-1.745	-0.0010	-2.5 to 2.5	Pass
				50	3.70	-3.319	-0.0019	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.15	-5.779	-0.0033	-2.5 to 2.5	Pass
					3.70	-6.337	-0.0037	-2.5 to 2.5	Pass
					4.26	-4.492	-0.0026	-2.5 to 2.5	Pass
				-30	3.70	-3.333	-0.0019	-2.5 to 2.5	Pass
				-20	3.70	-7.453	-0.0043	-2.5 to 2.5	Pass
				-10	3.70	-6.380	-0.0037	-2.5 to 2.5	Pass
				0	3.70	-4.234	-0.0024	-2.5 to 2.5	Pass
				10	3.70	-9.198	-0.0053	-2.5 to 2.5	Pass
				30	3.70	-6.523	-0.0038	-2.5 to 2.5	Pass
				40	3.70	-3.619	-0.0021	-2.5 to 2.5	Pass
				50	3.70	-5.536	-0.0032	-2.5 to 2.5	Pass
	1750	50	0	20	3.15	-8.497	-0.0049	-2.5 to 2.5	Pass
					3.70	-6.838	-0.0039	-2.5 to 2.5	Pass
					4.26	-5.121	-0.0029	-2.5 to 2.5	Pass
				-30	3.70	-6.208	-0.0035	-2.5 to 2.5	Pass
				-20	3.70	-3.104	-0.0018	-2.5 to 2.5	Pass
				-10	3.70	-4.134	-0.0024	-2.5 to 2.5	Pass
				0	3.70	-8.354	-0.0048	-2.5 to 2.5	Pass
				10	3.70	-5.808	-0.0033	-2.5 to 2.5	Pass
				30	3.70	-2.961	-0.0017	-2.5 to 2.5	Pass
				40	3.70	-5.035	-0.0029	-2.5 to 2.5	Pass
16QAM	1715	27	0	20	3.15	-5.436	-0.0032	-2.5 to 2.5	Pass
					3.70	-5.364	-0.0031	-2.5 to 2.5	Pass
					4.26	-7.625	-0.0044	-2.5 to 2.5	Pass
				-30	3.70	-6.609	-0.0039	-2.5 to 2.5	Pass
				-20	3.70	-7.596	-0.0044	-2.5 to 2.5	Pass
				-10	3.70	-5.407	-0.0032	-2.5 to 2.5	Pass
				0	3.70	-8.054	-0.0047	-2.5 to 2.5	Pass
				10	3.70	-1.459	-0.0009	-2.5 to 2.5	Pass
				30	3.70	-0.443	-0.0003	-2.5 to 2.5	Pass
				40	3.70	-6.151	-0.0036	-2.5 to 2.5	Pass
				50	3.70	-6.924	-0.0040	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.15	-6.566	-0.0038	-2.5 to 2.5	Pass
					3.70	-7.267	-0.0042	-2.5 to 2.5	Pass
					4.26	-4.964	-0.0029	-2.5 to 2.5	Pass
				-30	3.70	-4.134	-0.0024	-2.5 to 2.5	Pass
				-20	3.70	-3.576	-0.0021	-2.5 to 2.5	Pass
				-10	3.70	-3.877	-0.0022	-2.5 to 2.5	Pass
				0	3.70	-6.337	-0.0037	-2.5 to 2.5	Pass
				10	3.70	-5.708	-0.0033	-2.5 to 2.5	Pass
				30	3.70	-6.208	-0.0036	-2.5 to 2.5	Pass
				40	3.70	-6.852	-0.0040	-2.5 to 2.5	Pass
				50	3.70	-3.905	-0.0023	-2.5 to 2.5	Pass

	1750	27	23	20	3.15	-12.159	-0.0069	-2.5 to 2.5	Pass
					3.70	-10.042	-0.0057	-2.5 to 2.5	Pass
					4.26	-7.296	-0.0042	-2.5 to 2.5	Pass
				-30	3.70	-6.065	-0.0035	-2.5 to 2.5	Pass
				-20	3.70	-11.129	-0.0064	-2.5 to 2.5	Pass
				-10	3.70	-6.566	-0.0038	-2.5 to 2.5	Pass
				0	3.70	-7.110	-0.0041	-2.5 to 2.5	Pass
				10	3.70	-10.328	-0.0059	-2.5 to 2.5	Pass
				30	3.70	-10.157	-0.0058	-2.5 to 2.5	Pass
				40	3.70	-11.802	-0.0067	-2.5 to 2.5	Pass
				50	3.70	-8.111	-0.0046	-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	3.15	-4.234	-0.0025	-2.5 to 2.5	Pass
					3.70	-9.828	-0.0057	-2.5 to 2.5	Pass
					4.26	-2.532	-0.0015	-2.5 to 2.5	Pass
				-30	3.70	-7.639	-0.0044	-2.5 to 2.5	Pass
				-20	3.70	-3.462	-0.0020	-2.5 to 2.5	Pass
				-10	3.70	-4.463	-0.0026	-2.5 to 2.5	Pass
				0	3.70	-6.580	-0.0038	-2.5 to 2.5	Pass
				10	3.70	-5.093	-0.0030	-2.5 to 2.5	Pass
				30	3.70	-5.465	-0.0032	-2.5 to 2.5	Pass
				40	3.70	-11.287	-0.0066	-2.5 to 2.5	Pass
				50	3.70	-6.709	-0.0039	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.15	-4.606	-0.0027	-2.5 to 2.5	Pass
					3.70	-7.696	-0.0044	-2.5 to 2.5	Pass
					4.26	-3.333	-0.0019	-2.5 to 2.5	Pass
				-30	3.70	-3.018	-0.0017	-2.5 to 2.5	Pass
				-20	3.70	-1.130	-0.0007	-2.5 to 2.5	Pass
				-10	3.70	-1.073	-0.0006	-2.5 to 2.5	Pass
				0	3.70	-5.193	-0.0030	-2.5 to 2.5	Pass
				10	3.70	-5.579	-0.0032	-2.5 to 2.5	Pass
				30	3.70	-3.448	-0.0020	-2.5 to 2.5	Pass
				40	3.70	-5.722	-0.0033	-2.5 to 2.5	Pass
				50	3.70	-4.392	-0.0025	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.15	-4.520	-0.0026	-2.5 to 2.5	Pass
					3.70	-2.961	-0.0017	-2.5 to 2.5	Pass
					4.26	-5.479	-0.0031	-2.5 to 2.5	Pass
				-30	3.70	-7.296	-0.0042	-2.5 to 2.5	Pass
				-20	3.70	-5.078	-0.0029	-2.5 to 2.5	Pass
				-10	3.70	-8.497	-0.0049	-2.5 to 2.5	Pass
				0	3.70	-3.061	-0.0018	-2.5 to 2.5	Pass
				10	3.70	-4.535	-0.0026	-2.5 to 2.5	Pass
				30	3.70	-1.259	-0.0007	-2.5 to 2.5	Pass
				40	3.70	-2.432	-0.0014	-2.5 to 2.5	Pass
16QAM	1717.5	27	0	20	3.15	-6.394	-0.0037	-2.5 to 2.5	Pass
					3.70	-9.756	-0.0057	-2.5 to 2.5	Pass
					4.26	-3.891	-0.0023	-2.5 to 2.5	Pass
				-30	3.70	-4.992	-0.0029	-2.5 to 2.5	Pass
				-20	3.70	-7.682	-0.0045	-2.5 to 2.5	Pass
				-10	3.70	-11.115	-0.0065	-2.5 to 2.5	Pass
				0	3.70	-7.911	-0.0046	-2.5 to 2.5	Pass
				10	3.70	-4.506	-0.0026	-2.5 to 2.5	Pass
				30	3.70	-5.507	-0.0032	-2.5 to 2.5	Pass
				40	3.70	-5.493	-0.0032	-2.5 to 2.5	Pass
				50	3.70	-4.406	-0.0026	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.15	-2.375	-0.0014	-2.5 to 2.5	Pass
					3.70	-3.676	-0.0021	-2.5 to 2.5	Pass
					4.26	-4.206	-0.0024	-2.5 to 2.5	Pass
				-30	3.70	-3.977	-0.0023	-2.5 to 2.5	Pass
				-20	3.70	-3.834	-0.0022	-2.5 to 2.5	Pass
				-10	3.70	-1.402	-0.0008	-2.5 to 2.5	Pass
				0	3.70	-8.311	-0.0048	-2.5 to 2.5	Pass
				10	3.70	-0.458	-0.0003	-2.5 to 2.5	Pass
				30	3.70	-4.320	-0.0025	-2.5 to 2.5	Pass
				40	3.70	-0.415	-0.0002	-2.5 to 2.5	Pass
				50	3.70	-2.875	-0.0017	-2.5 to 2.5	Pass

	1747.5	27	48	20	3.15	-9.255	-0.0053	-2.5 to 2.5	Pass
					3.70	-15.764	-0.0090	-2.5 to 2.5	Pass
					4.26	-5.422	-0.0031	-2.5 to 2.5	Pass
				-30	3.70	-2.918	-0.0017	-2.5 to 2.5	Pass
				-20	3.70	0.501	0.0003	-2.5 to 2.5	Pass
				-10	3.70	-8.883	-0.0051	-2.5 to 2.5	Pass
				0	3.70	-1.273	-0.0007	-2.5 to 2.5	Pass
				10	3.70	-1.059	-0.0006	-2.5 to 2.5	Pass
				30	3.70	-3.290	-0.0019	-2.5 to 2.5	Pass
				40	3.70	-6.452	-0.0037	-2.5 to 2.5	Pass
				50	3.70	-3.605	-0.0021	-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	3.15	-4.592	-0.0027	-2.5 to 2.5	Pass
					3.70	-5.879	-0.0034	-2.5 to 2.5	Pass
					4.26	-6.695	-0.0039	-2.5 to 2.5	Pass
				-30	3.70	-4.106	-0.0024	-2.5 to 2.5	Pass
				-20	3.70	-3.519	-0.0020	-2.5 to 2.5	Pass
				-10	3.70	-6.037	-0.0035	-2.5 to 2.5	Pass
				0	3.70	-4.048	-0.0024	-2.5 to 2.5	Pass
				10	3.70	-5.808	-0.0034	-2.5 to 2.5	Pass
				30	3.70	-6.323	-0.0037	-2.5 to 2.5	Pass
				40	3.70	-8.640	-0.0050	-2.5 to 2.5	Pass
				50	3.70	-3.419	-0.0020	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.15	-9.685	-0.0056	-2.5 to 2.5	Pass
					3.70	-3.204	-0.0018	-2.5 to 2.5	Pass
					4.26	-7.167	-0.0041	-2.5 to 2.5	Pass
				-30	3.70	-3.462	-0.0020	-2.5 to 2.5	Pass
				-20	3.70	-0.443	-0.0003	-2.5 to 2.5	Pass
				-10	3.70	-6.437	-0.0037	-2.5 to 2.5	Pass
				0	3.70	-2.675	-0.0015	-2.5 to 2.5	Pass
				10	3.70	-3.161	-0.0018	-2.5 to 2.5	Pass
				30	3.70	-5.050	-0.0029	-2.5 to 2.5	Pass
				40	3.70	-4.878	-0.0028	-2.5 to 2.5	Pass
				50	3.70	-0.916	-0.0005	-2.5 to 2.5	Pass
	1745	100	0	20	3.15	-7.110	-0.0041	-2.5 to 2.5	Pass
					3.70	-5.550	-0.0032	-2.5 to 2.5	Pass
					4.26	-6.051	-0.0035	-2.5 to 2.5	Pass
				-30	3.70	-3.633	-0.0021	-2.5 to 2.5	Pass
				-20	3.70	-3.719	-0.0021	-2.5 to 2.5	Pass
				-10	3.70	-3.262	-0.0019	-2.5 to 2.5	Pass
				0	3.70	-6.266	-0.0036	-2.5 to 2.5	Pass
				10	3.70	-4.535	-0.0026	-2.5 to 2.5	Pass
				30	3.70	-5.178	-0.0030	-2.5 to 2.5	Pass
				40	3.70	-2.589	-0.0015	-2.5 to 2.5	Pass
16QAM	1720	27	0	20	3.15	-6.008	-0.0035	-2.5 to 2.5	Pass
					3.70	-3.948	-0.0023	-2.5 to 2.5	Pass
					4.26	-3.161	-0.0018	-2.5 to 2.5	Pass
				-30	3.70	-8.597	-0.0050	-2.5 to 2.5	Pass
				-20	3.70	-3.619	-0.0021	-2.5 to 2.5	Pass
				-10	3.70	-6.480	-0.0038	-2.5 to 2.5	Pass
				0	3.70	-6.537	-0.0038	-2.5 to 2.5	Pass
				10	3.70	-7.839	-0.0046	-2.5 to 2.5	Pass
				30	3.70	-4.220	-0.0025	-2.5 to 2.5	Pass
				40	3.70	-9.885	-0.0057	-2.5 to 2.5	Pass
				50	3.70	-3.819	-0.0022	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.15	-6.123	-0.0035	-2.5 to 2.5	Pass
					3.70	-5.307	-0.0031	-2.5 to 2.5	Pass
					4.26	-5.493	-0.0032	-2.5 to 2.5	Pass
				-30	3.70	-3.104	-0.0018	-2.5 to 2.5	Pass
				-20	3.70	-1.845	-0.0011	-2.5 to 2.5	Pass
				-10	3.70	-7.968	-0.0046	-2.5 to 2.5	Pass
				0	3.70	-2.804	-0.0016	-2.5 to 2.5	Pass
				10	3.70	-2.546	-0.0015	-2.5 to 2.5	Pass
				30	3.70	-8.712	-0.0050	-2.5 to 2.5	Pass
				40	3.70	0.615	0.0004	-2.5 to 2.5	Pass
				50	3.70	-4.392	-0.0025	-2.5 to 2.5	Pass

	1745	27	73	20	3.15	-4.420	-0.0025	-2.5 to 2.5	Pass
					3.70	-6.108	-0.0035	-2.5 to 2.5	Pass
					4.26	-4.177	-0.0024	-2.5 to 2.5	Pass
				-30	3.70	-6.223	-0.0036	-2.5 to 2.5	Pass
				-20	3.70	-0.200	-0.0001	-2.5 to 2.5	Pass
				-10	3.70	-1.531	-0.0009	-2.5 to 2.5	Pass
				0	3.70	-5.050	-0.0029	-2.5 to 2.5	Pass
				10	3.70	-4.606	-0.0026	-2.5 to 2.5	Pass
				30	3.70	-5.722	-0.0033	-2.5 to 2.5	Pass
				40	3.70	-7.195	-0.0041	-2.5 to 2.5	Pass
				50	3.70	-4.835	-0.0028	-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	27	0	Refer To Test Graph		Pass

3.1.5 B4_15MHz

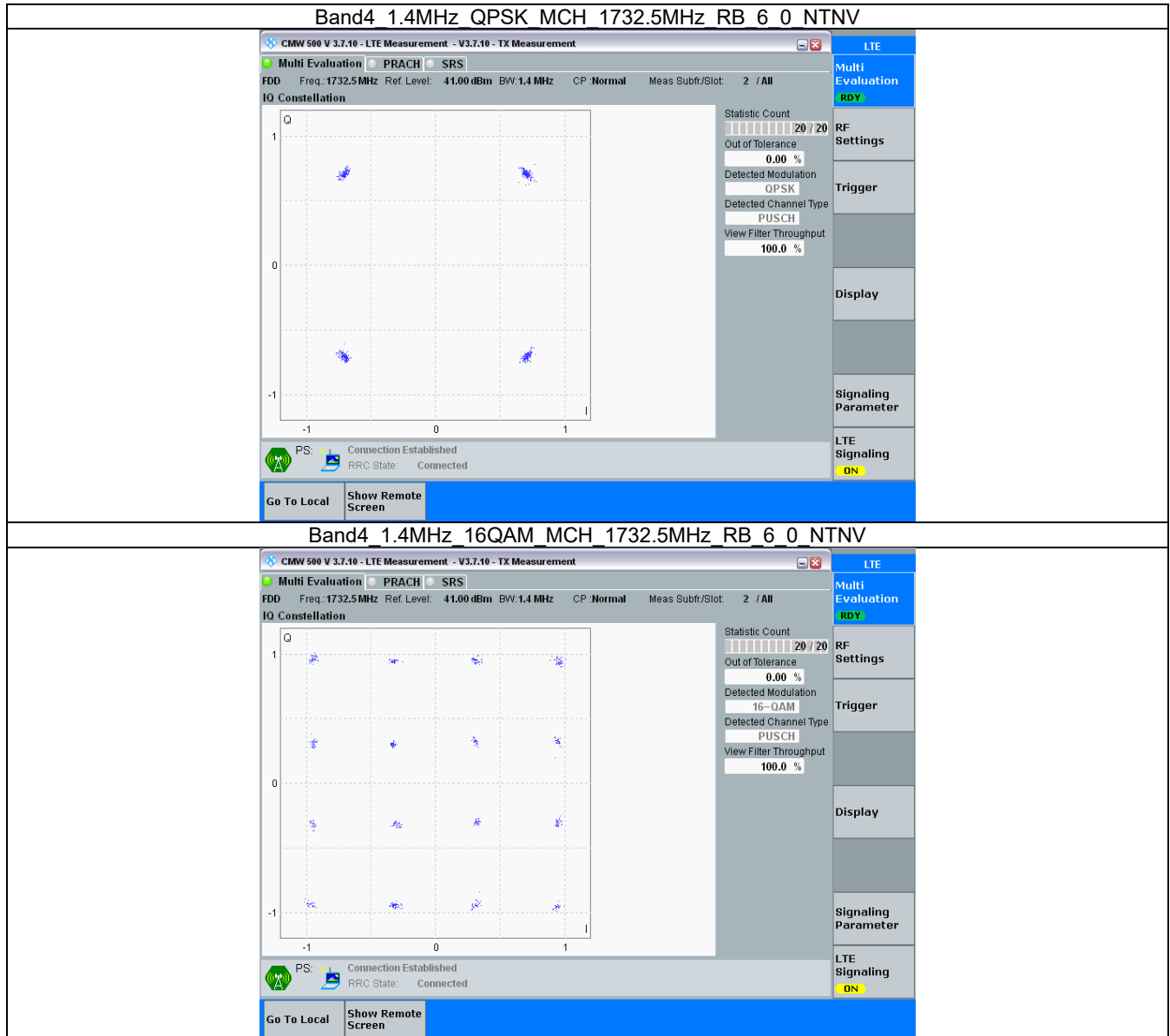
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	27	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

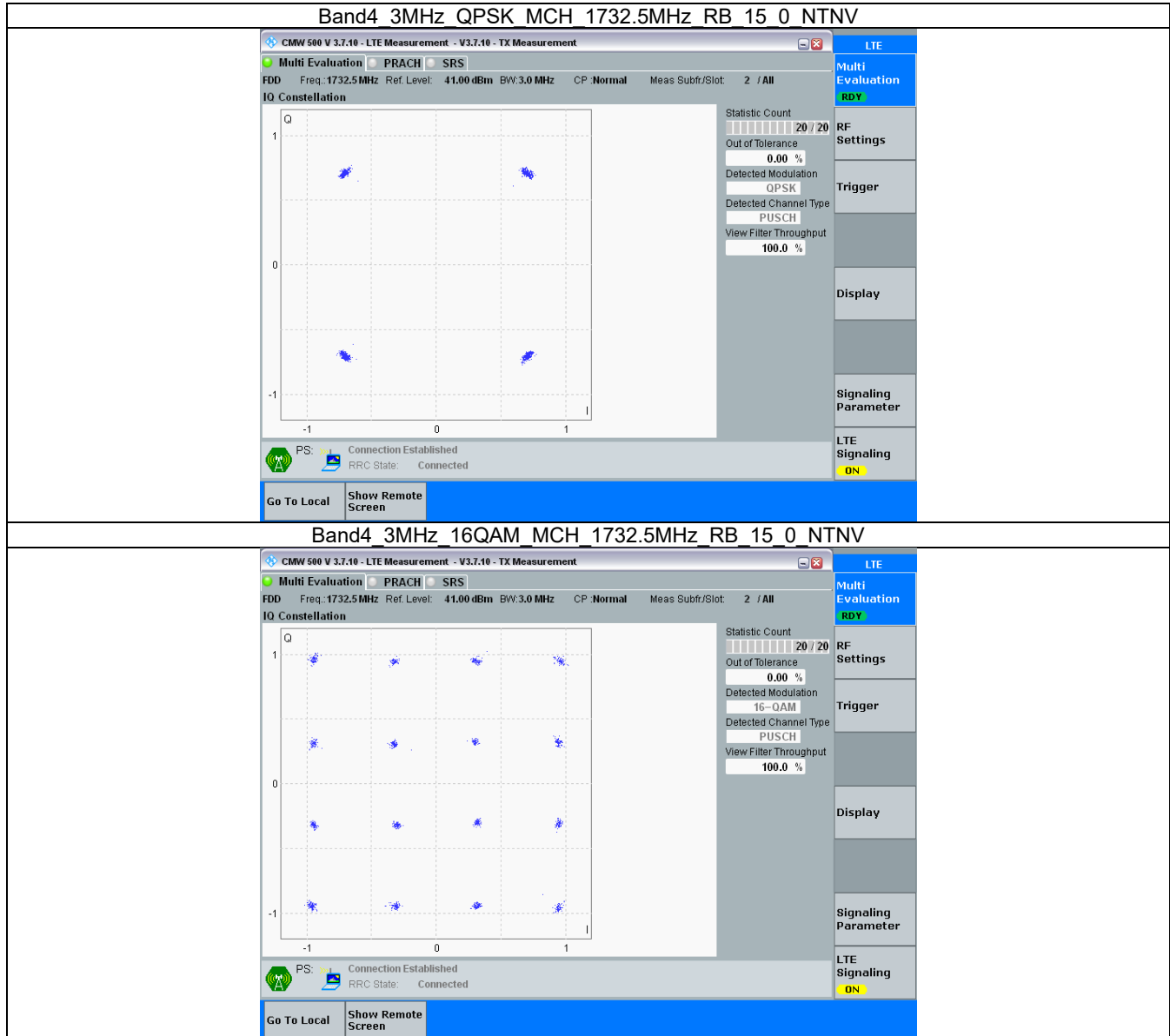
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	27	0	Refer To Test Graph		Pass

3.2 Test Graph

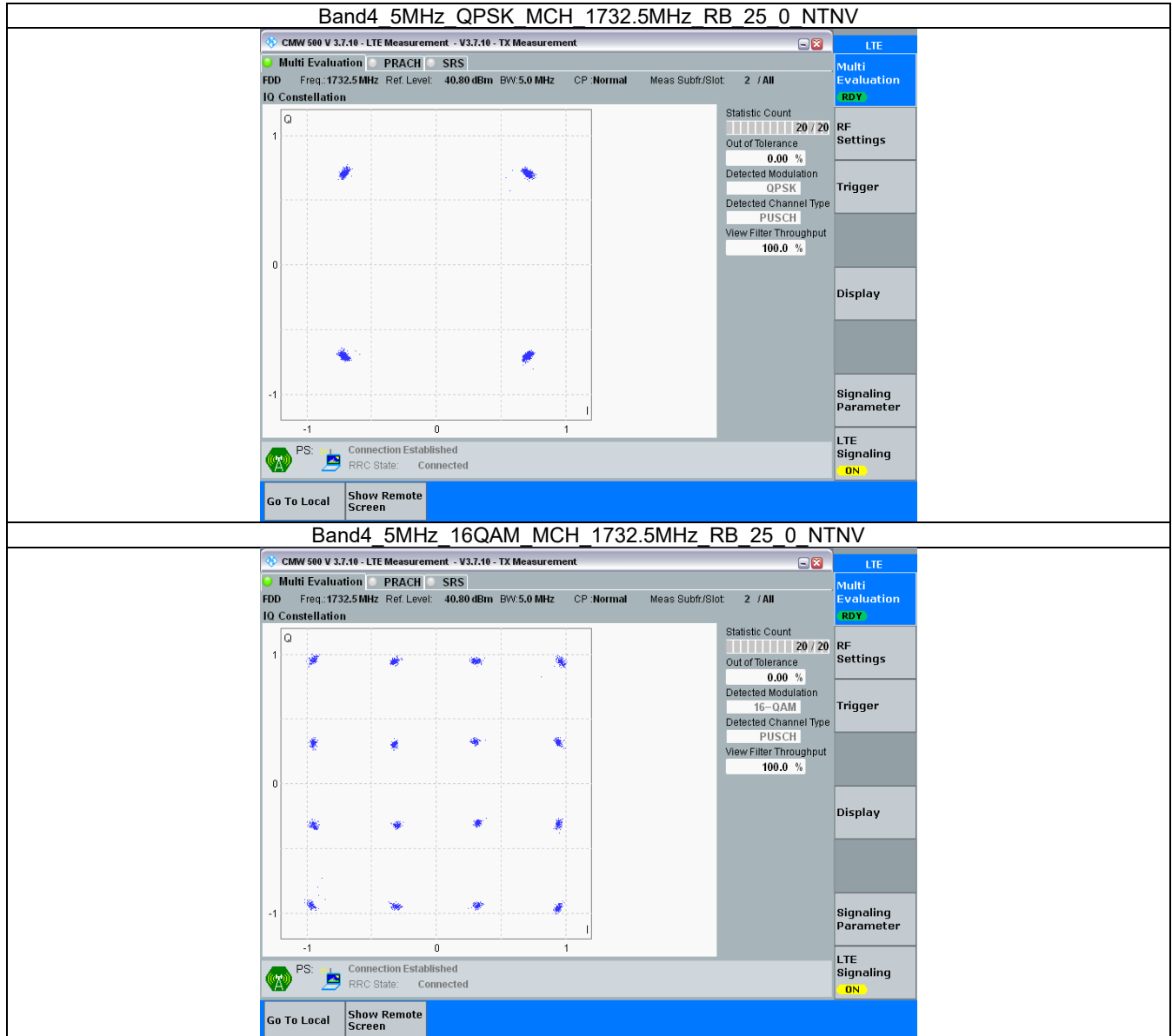
3.2.1 B4_1.4MHz



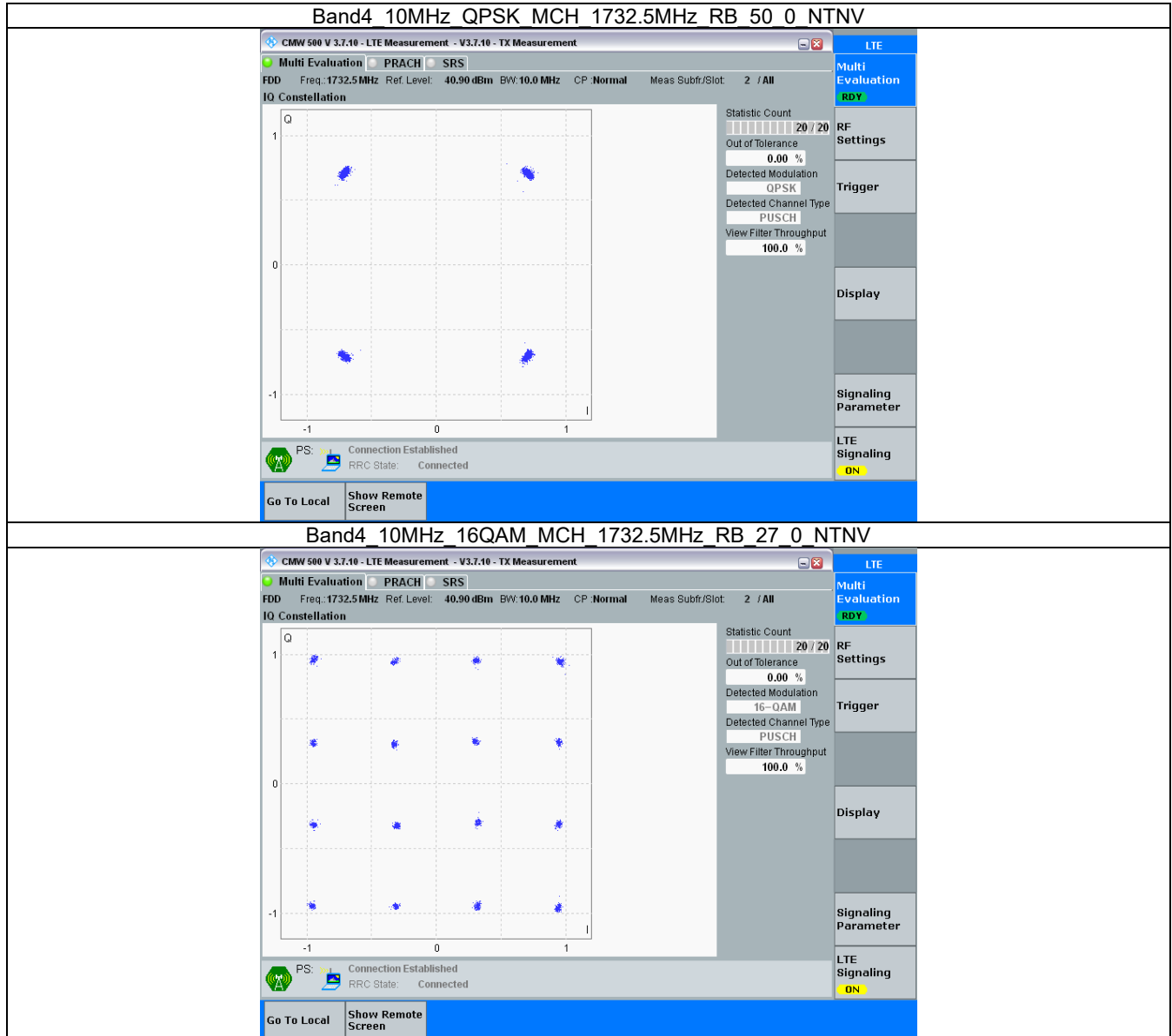
3.2.2 B4_3MHz



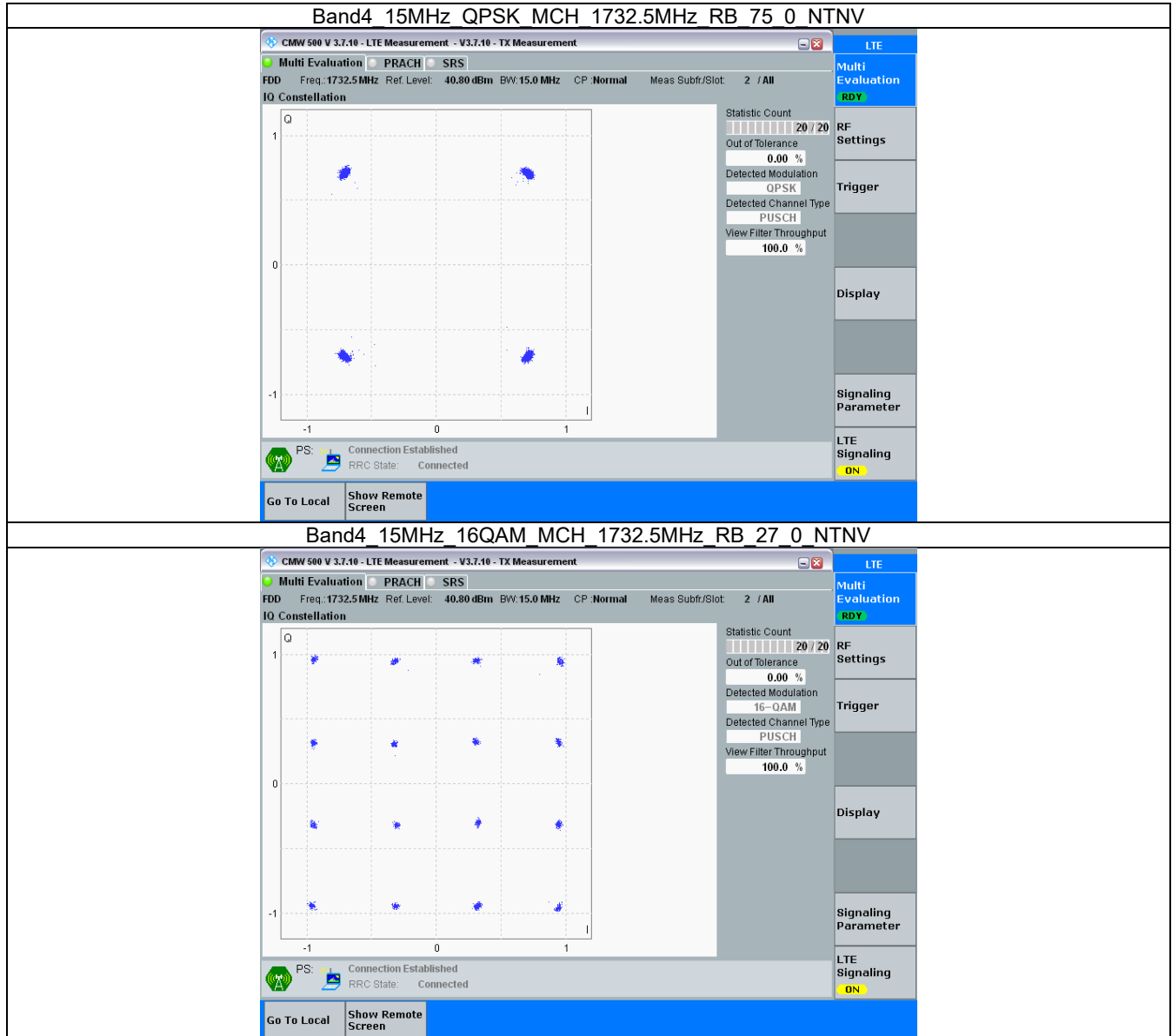
3.2.3 B4_5MHz



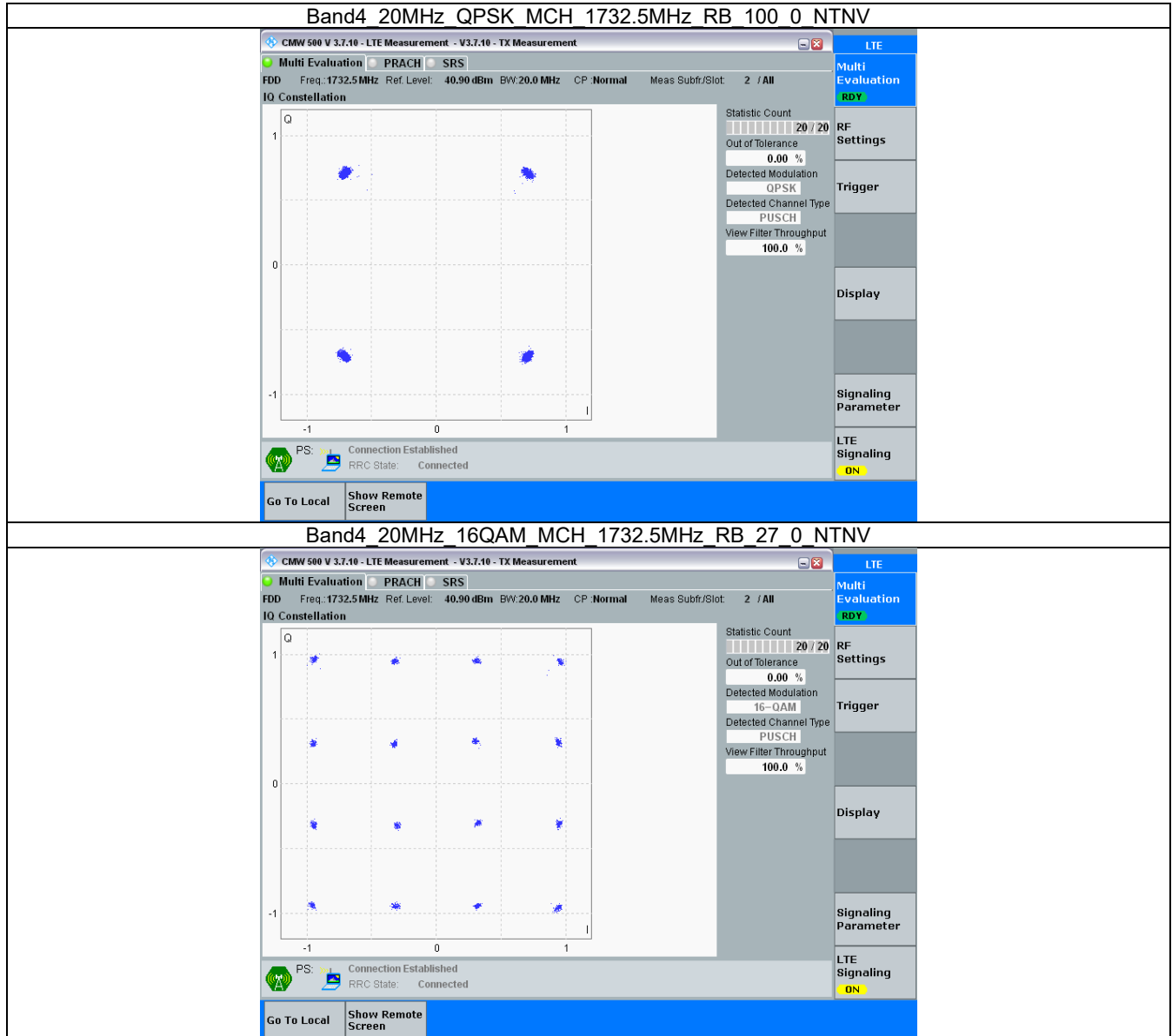
3.2.4 B4_10MHz



3.2.5 B4_15MHz



3.2.6 B4_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

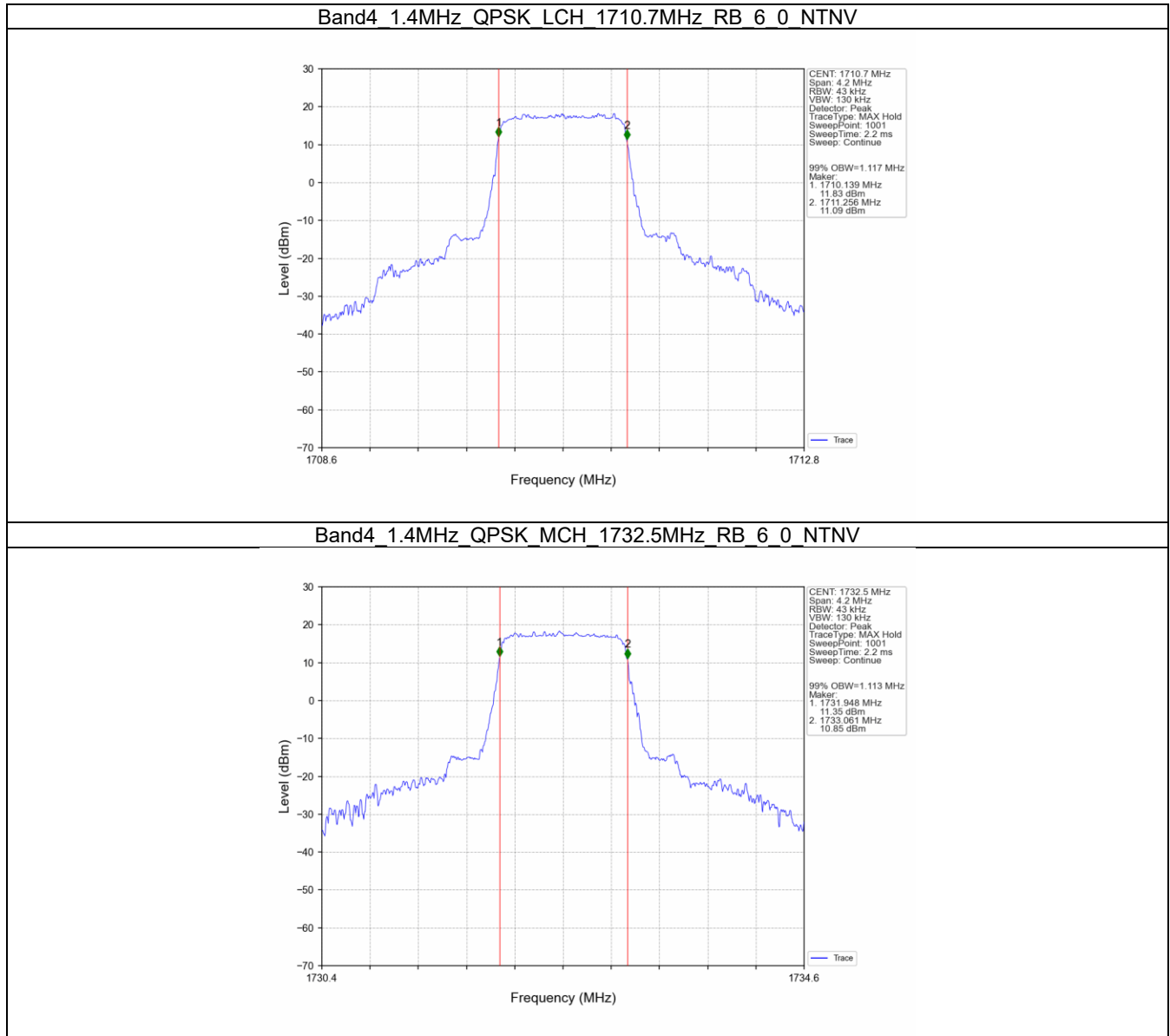
Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.117	/	Pass
		1732.5	6	0	1.113	/	Pass
		1754.3	6	0	1.107	/	Pass
	16QAM	1710.7	6	0	1.111	/	Pass
		1732.5	6	0	1.109	/	Pass
		1754.3	6	0	1.113	/	Pass
3	QPSK	1711.5	15	0	2.726	/	Pass
		1732.5	15	0	2.735	/	Pass
		1753.5	15	0	2.724	/	Pass
	16QAM	1711.5	15	0	2.716	/	Pass
		1732.5	15	0	2.722	/	Pass
		1753.5	15	0	2.716	/	Pass
5	QPSK	1712.5	25	0	4.547	/	Pass
		1732.5	25	0	4.534	/	Pass
		1752.5	25	0	4.557	/	Pass
	16QAM	1712.5	25	0	4.542	/	Pass
		1732.5	25	0	4.541	/	Pass
		1752.5	25	0	4.529	/	Pass
10	QPSK	1715	50	0	9.058	/	Pass
		1732.5	50	0	9.067	/	Pass
		1750	50	0	9.057	/	Pass
	16QAM	1715	27	0	5.101	/	Pass
		1732.5	27	0	5.072	/	Pass
		1750	27	23	5.072	/	Pass
15	QPSK	1717.5	75	0	13.568	/	Pass
		1732.5	75	0	13.592	/	Pass
		1747.5	75	0	13.633	/	Pass
	16QAM	1717.5	27	0	5.391	/	Pass
		1732.5	27	0	5.297	/	Pass
		1747.5	27	48	5.291	/	Pass
20	QPSK	1720	100	0	18.058	/	Pass
		1732.5	100	0	18.148	/	Pass
		1745	100	0	18.193	/	Pass
	16QAM	1720	27	0	5.535	/	Pass
		1732.5	27	0	5.515	/	Pass
		1745	27	73	5.538	/	Pass

4.1.2 Band4_XDB

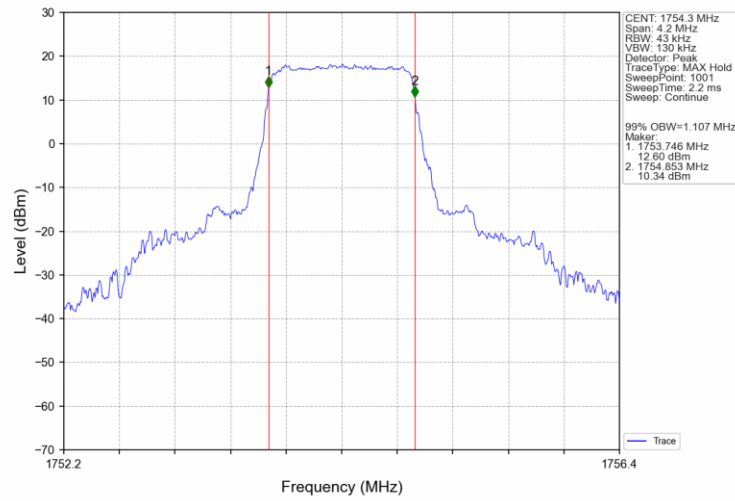
Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.322	/	Pass
		1732.5	6	0	1.329	/	Pass
		1754.3	6	0	1.339	/	Pass
	16QAM	1710.7	6	0	1.324	/	Pass
		1732.5	6	0	1.297	/	Pass
		1754.3	6	0	1.335	/	Pass
3	QPSK	1711.5	15	0	3.004	/	Pass
		1732.5	15	0	3.018	/	Pass
		1753.5	15	0	3.017	/	Pass
	16QAM	1711.5	15	0	2.997	/	Pass
		1732.5	15	0	2.997	/	Pass
		1753.5	15	0	3.007	/	Pass
5	QPSK	1712.5	25	0	5.019	/	Pass
		1732.5	25	0	5.058	/	Pass
		1752.5	25	0	5.007	/	Pass
	16QAM	1712.5	25	0	5.024	/	Pass
		1732.5	25	0	5.046	/	Pass
		1752.5	25	0	5.005	/	Pass
10	QPSK	1715	50	0	9.933	/	Pass
		1732.5	50	0	9.907	/	Pass
		1750	50	0	9.992	/	Pass
	16QAM	1715	27	0	6.139	/	Pass
		1732.5	27	0	6.062	/	Pass
		1750	27	23	5.964	/	Pass
15	QPSK	1717.5	75	0	14.885	/	Pass
		1732.5	75	0	14.822	/	Pass
		1747.5	75	0	14.914	/	Pass
	16QAM	1717.5	27	0	6.679	/	Pass
		1732.5	27	0	6.639	/	Pass
		1747.5	27	48	6.494	/	Pass
20	QPSK	1720	100	0	19.841	/	Pass
		1732.5	100	0	19.780	/	Pass
		1745	100	0	19.682	/	Pass
	16QAM	1720	27	0	7.036	/	Pass
		1732.5	27	0	6.979	/	Pass
		1745	27	73	7.088	/	Pass

4.2 Test Graph

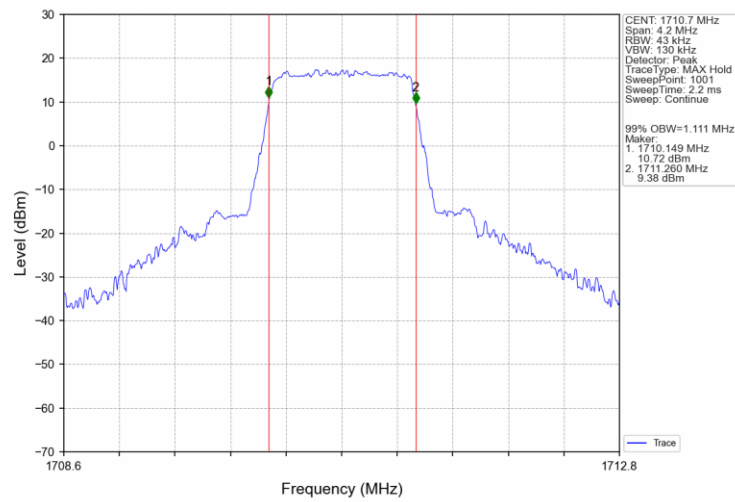
4.2.1 Band4_OBW



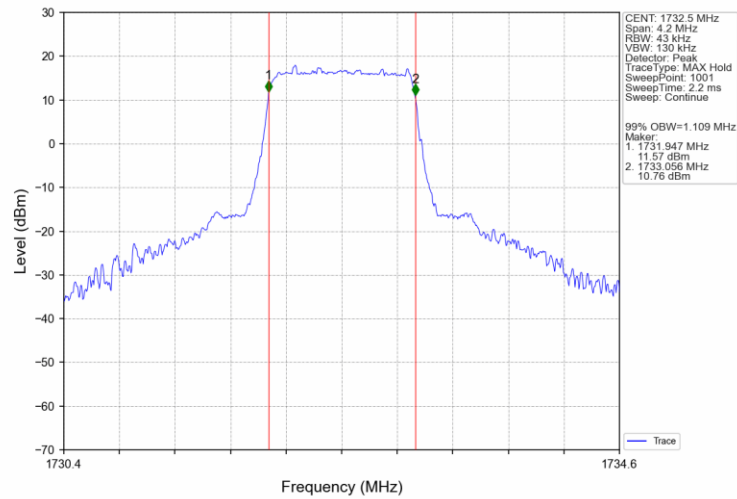
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTV



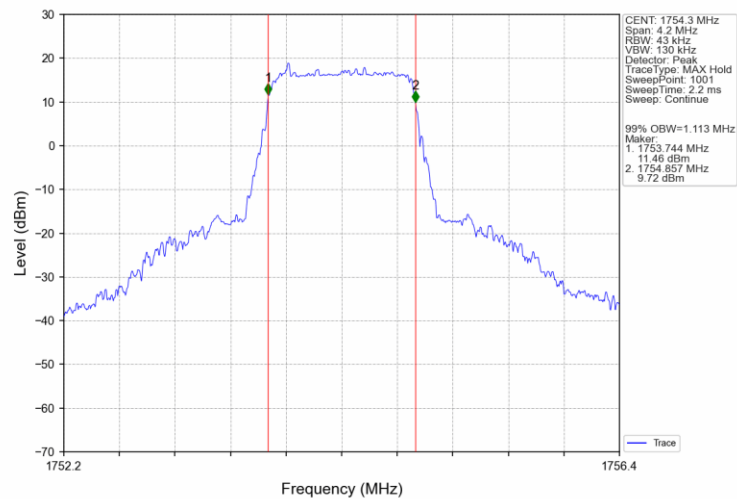
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTV



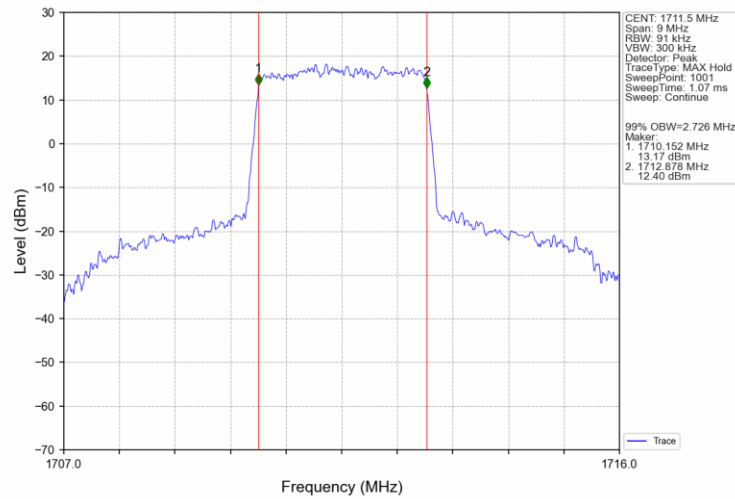
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTN



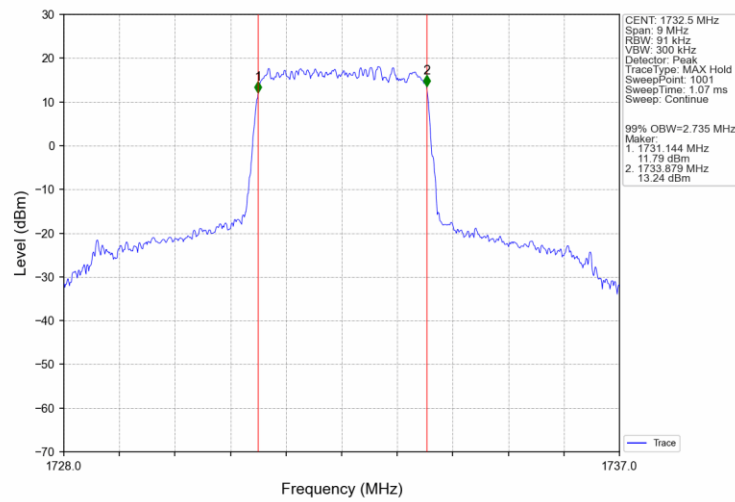
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTN



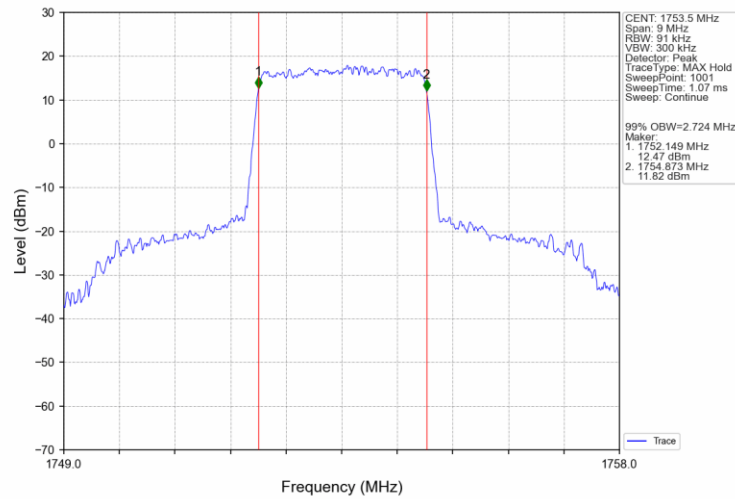
Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTV



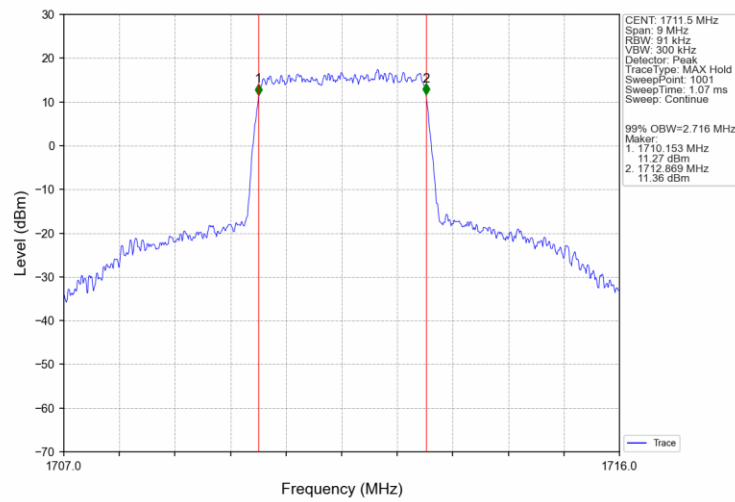
Band4 3MHz QPSK MCH 1732.5MHz RB 15 0 NTV



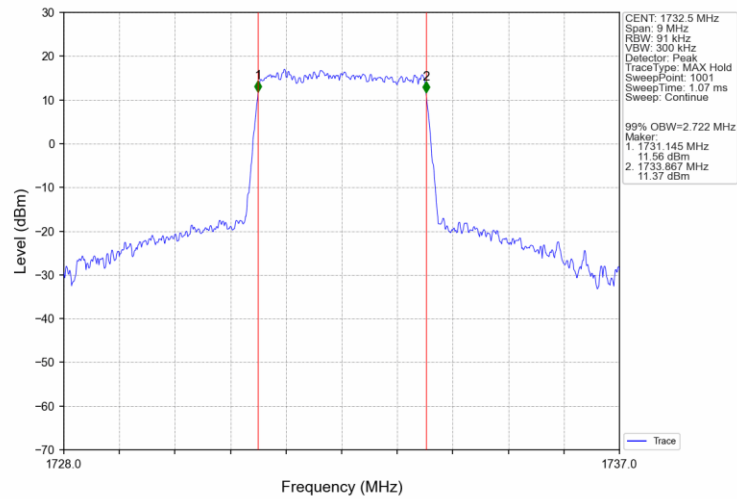
Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTV



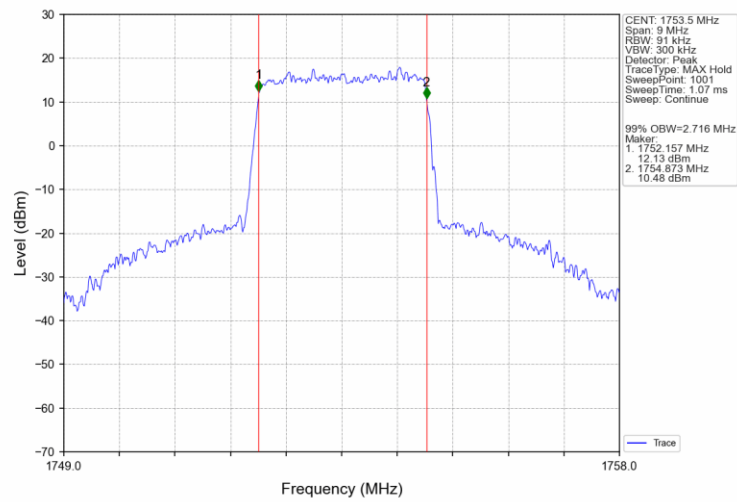
Band4 3MHz 16QAM LCH 1711.5MHz RB 15 0 NTV



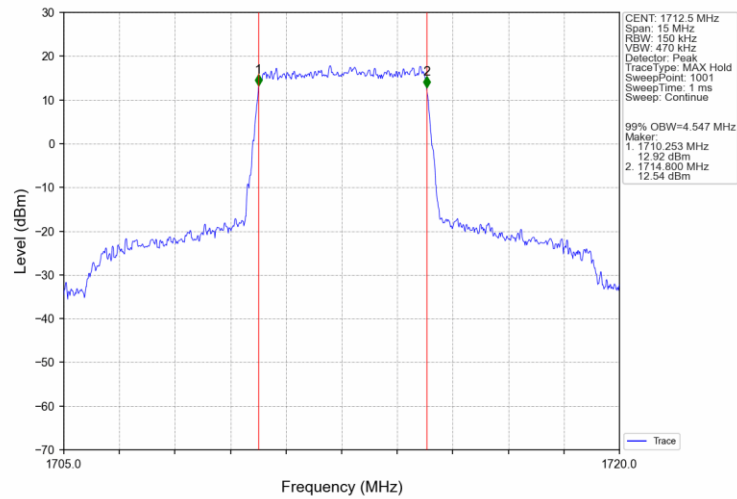
Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTNV



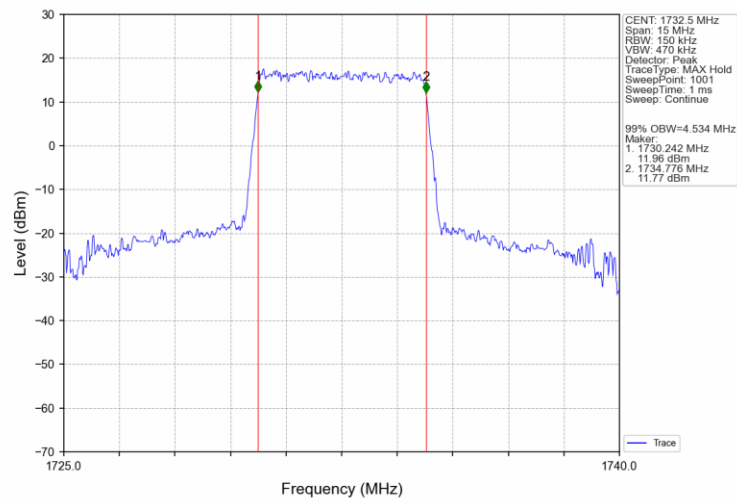
Band4 3MHz 16QAM HCH 1753.5MHz RB 15 0 NTNV



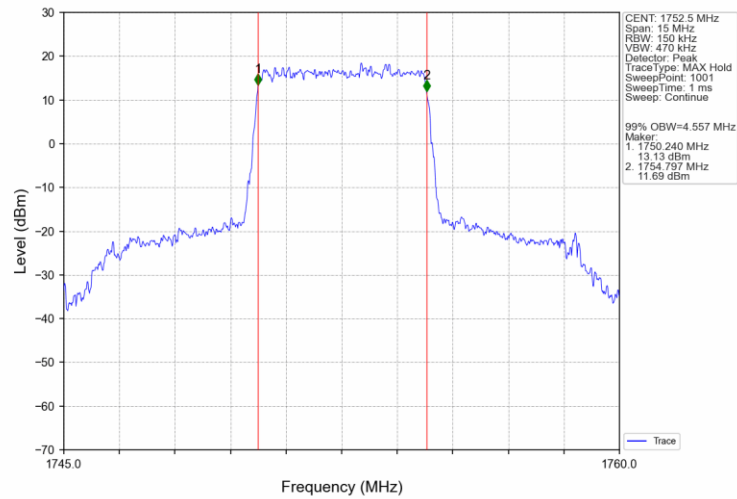
Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTV



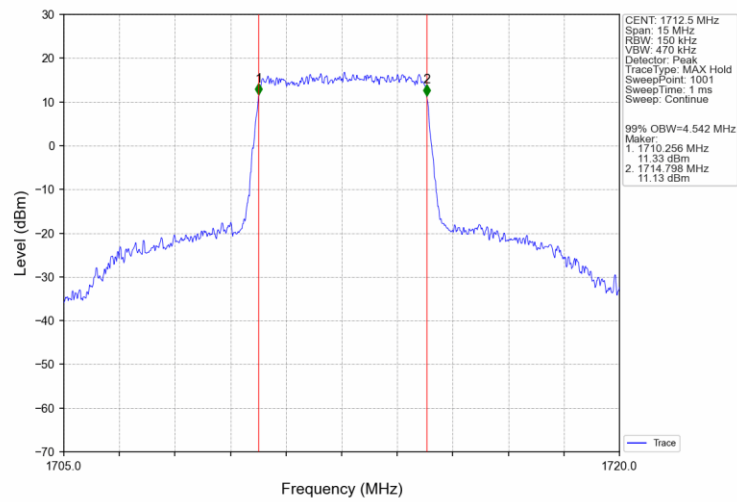
Band4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTV



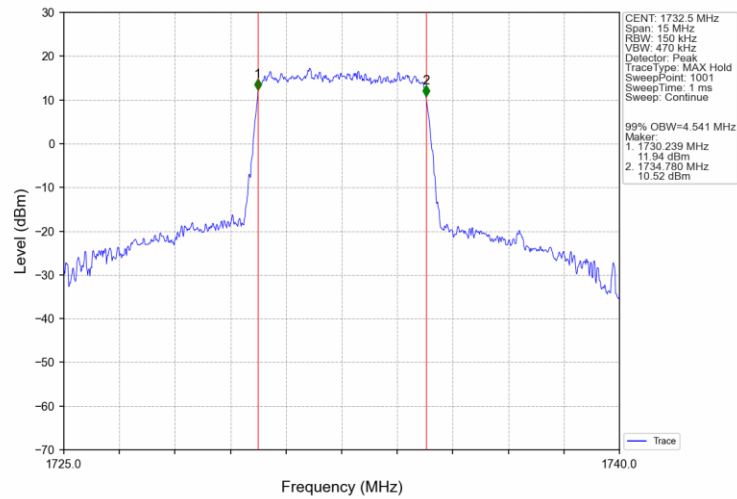
Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTV



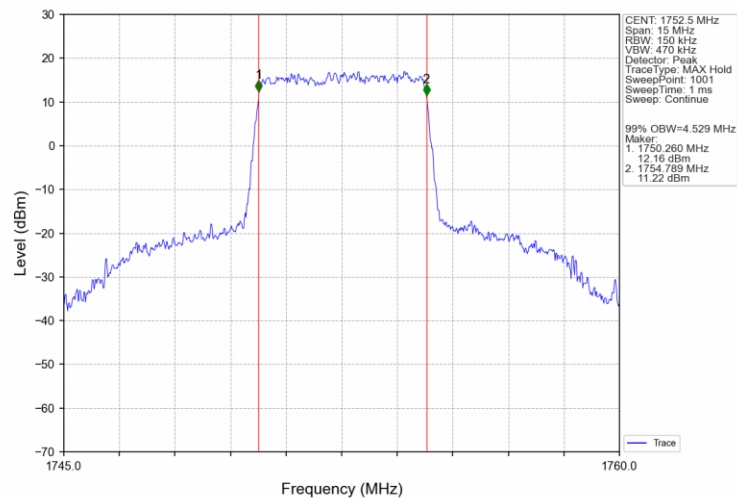
Band4 5MHz 16QAM LCH 1712.5MHz RB 25 0 NTV



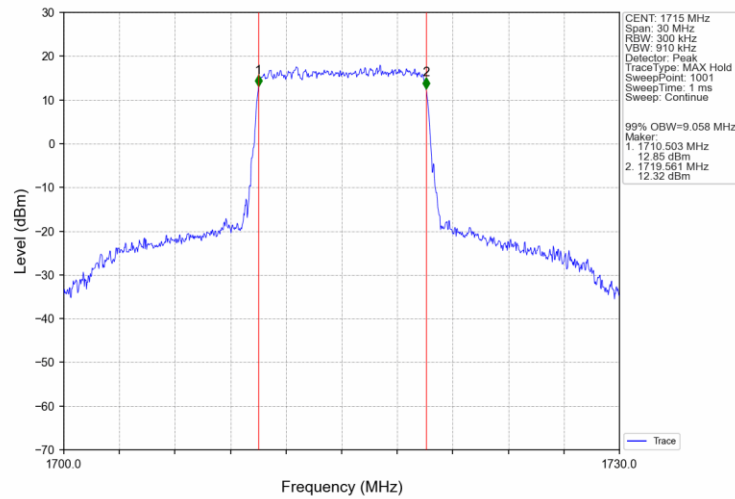
Band4 5MHz 16QAM MCH 1732.5MHz RB 25 0 NTNV



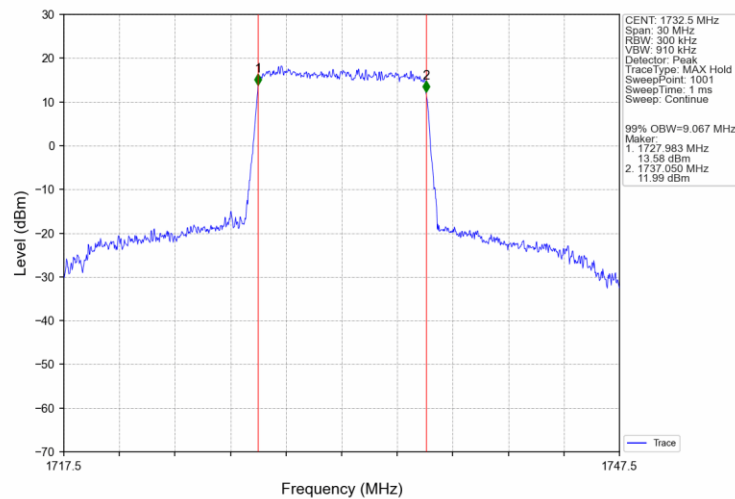
Band4 5MHz 16QAM HCH 1752.5MHz RB 25 0 NTNV



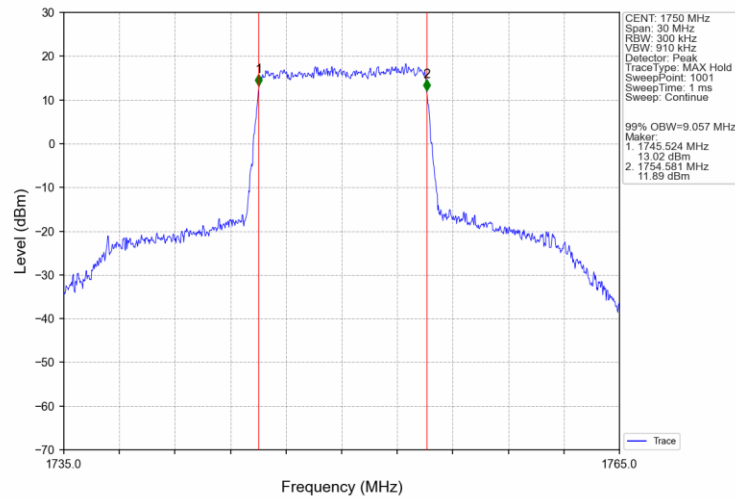
Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTN



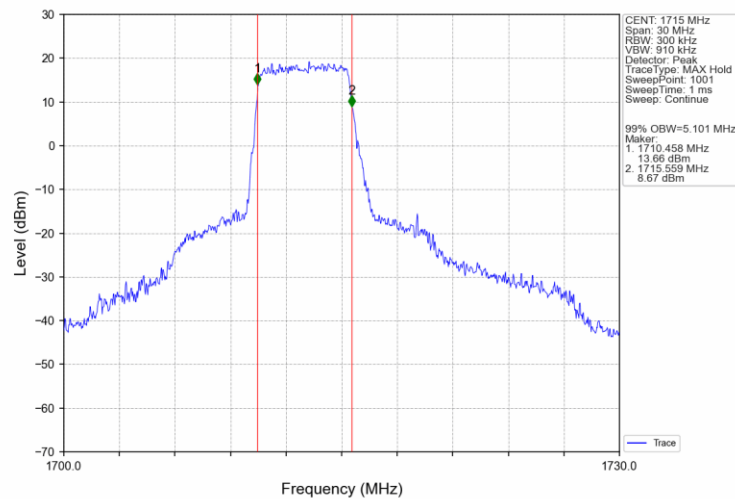
Band4 10MHz QPSK MCH 1732.5MHz RB 50 0 NTN



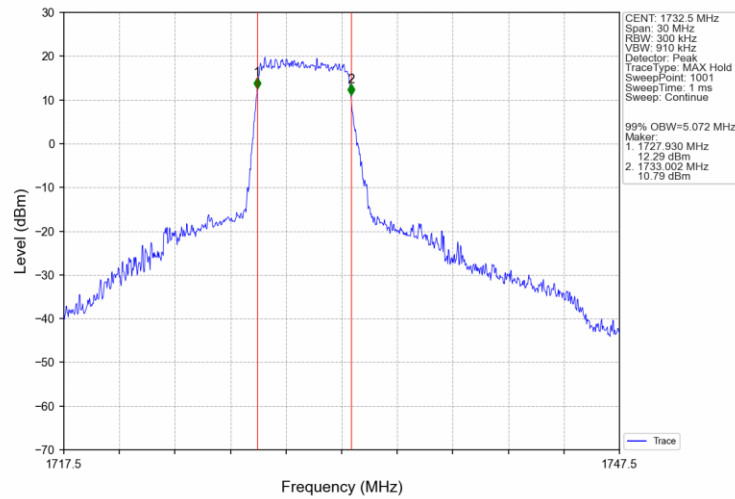
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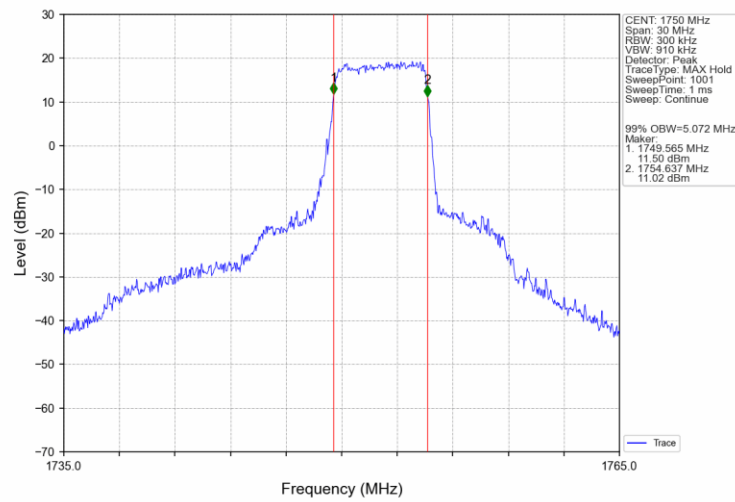
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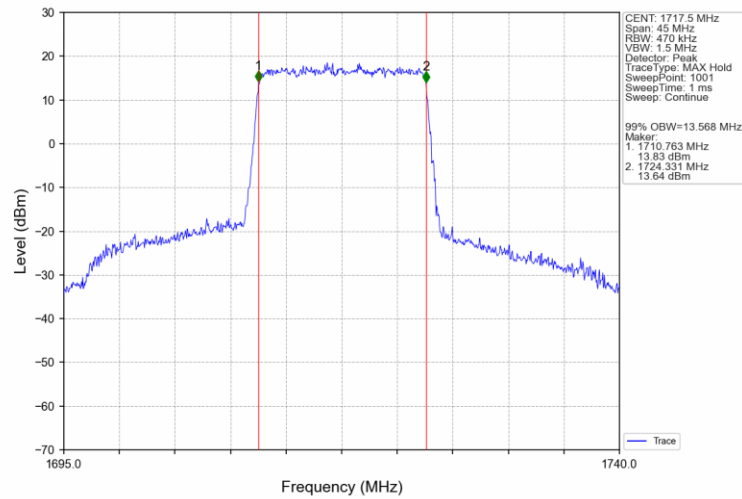
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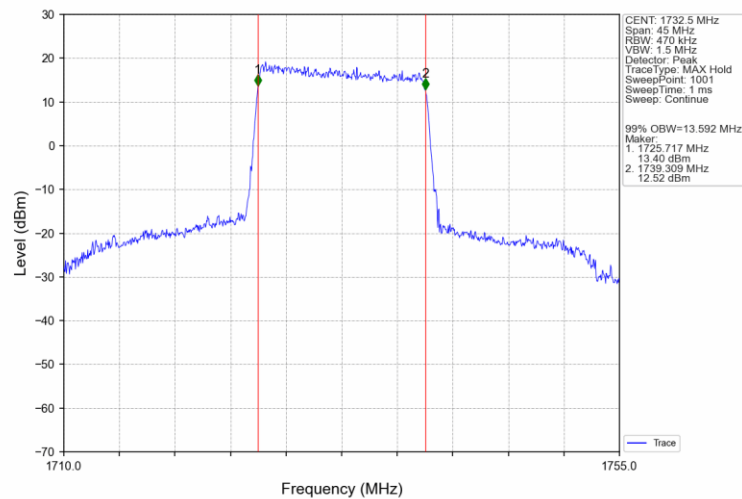
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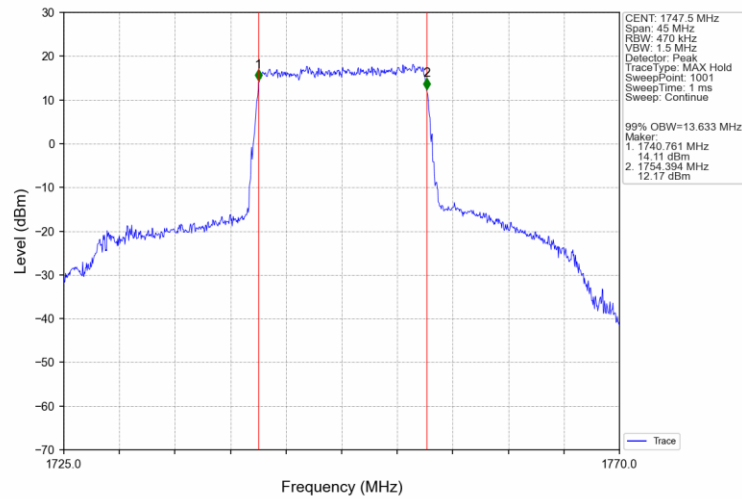
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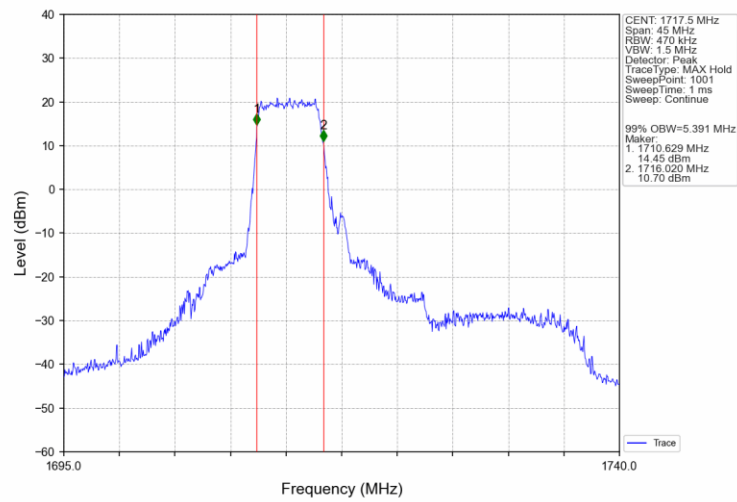
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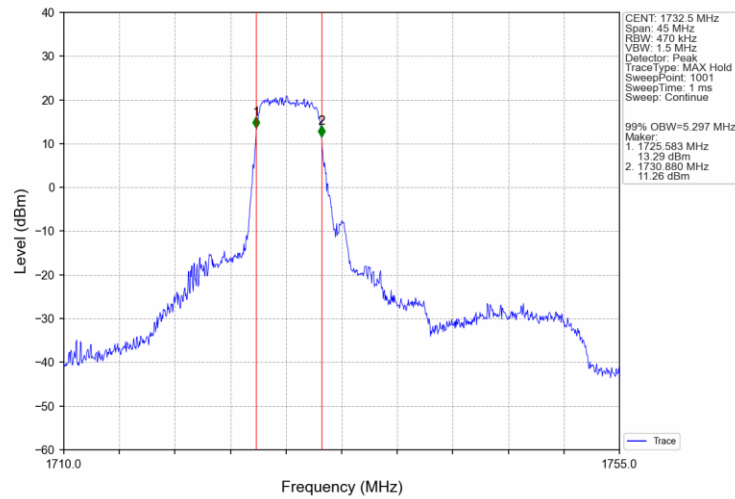
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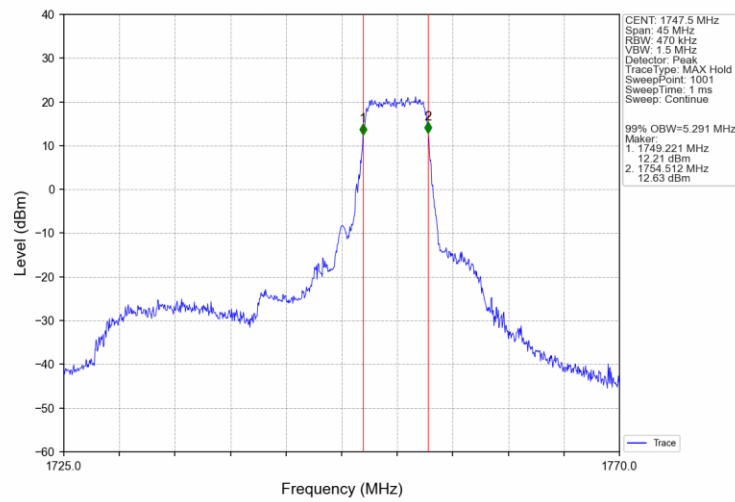
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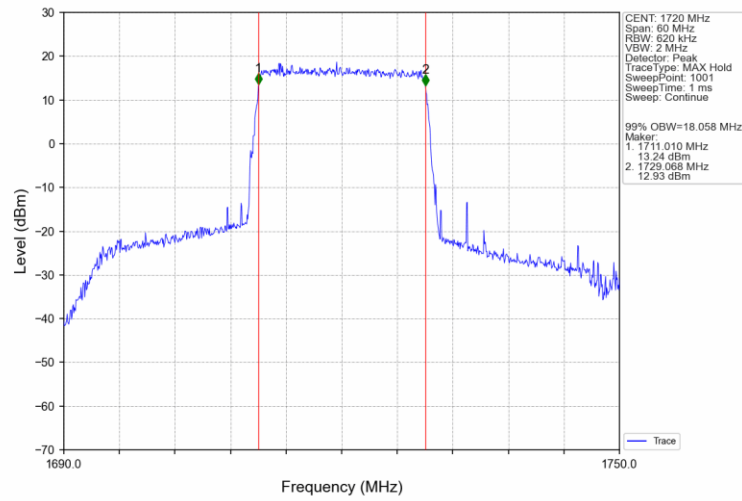
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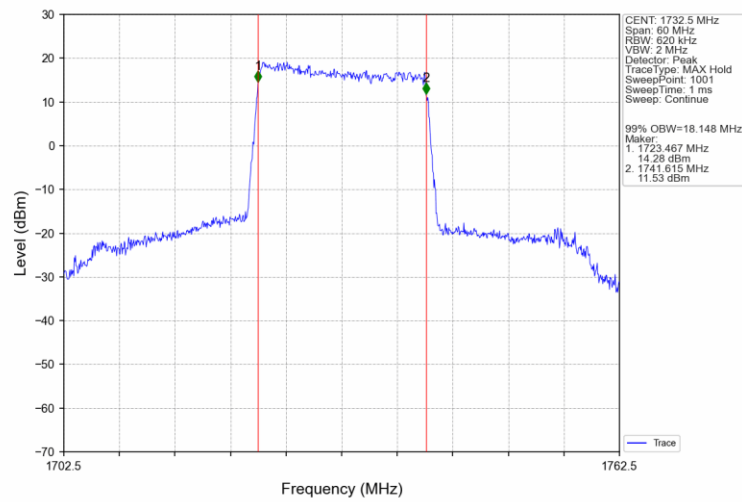
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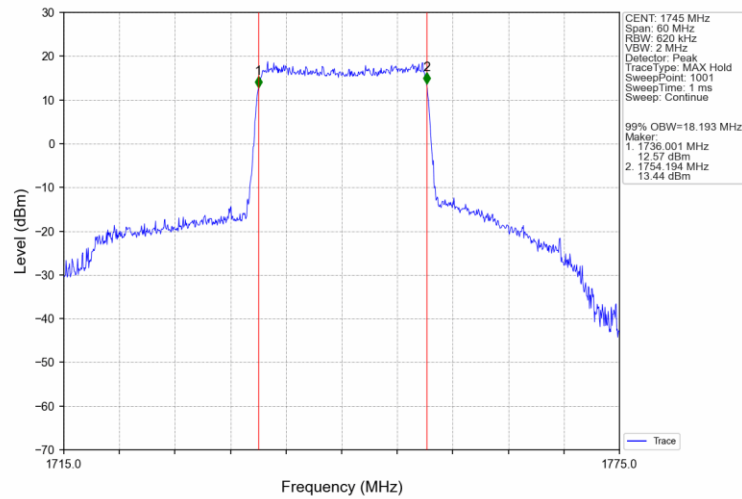
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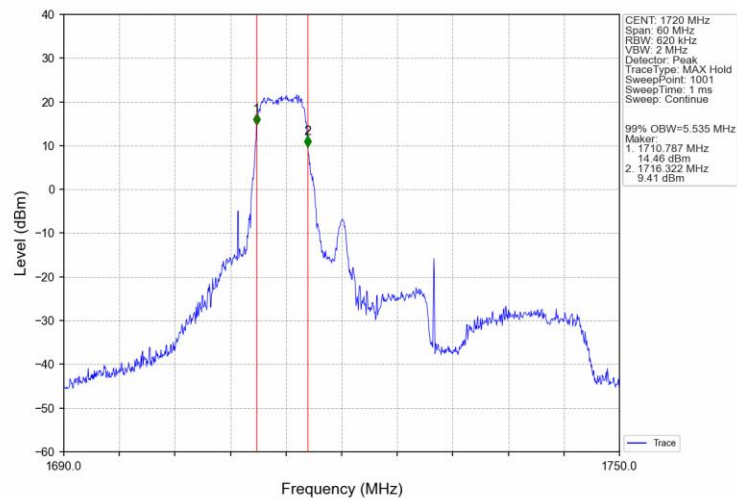
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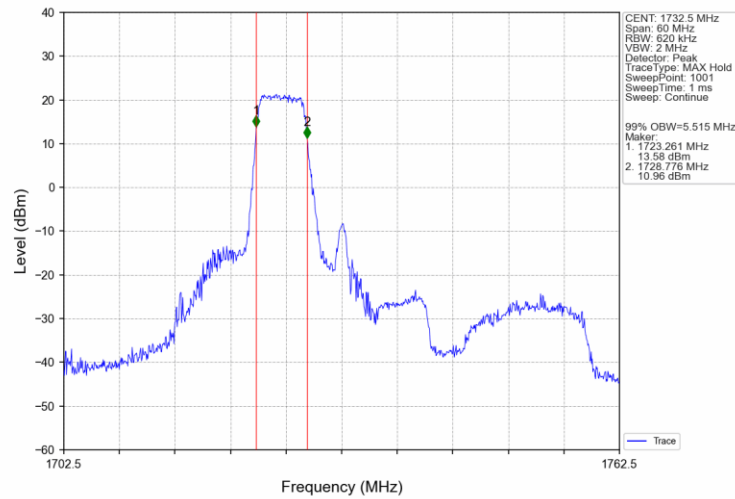
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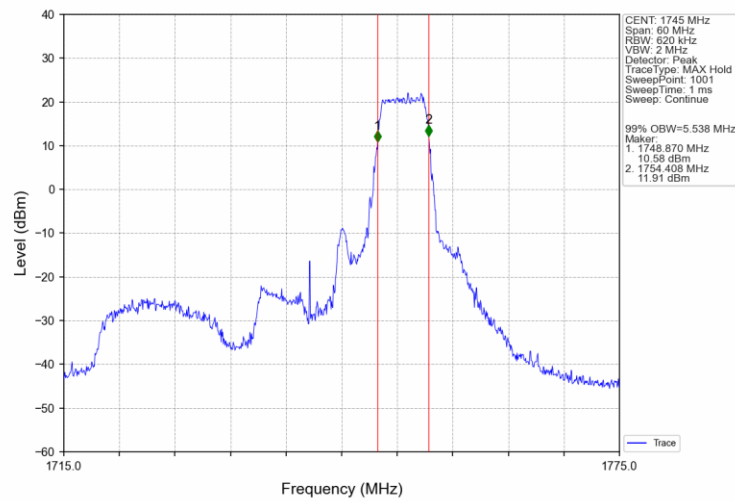
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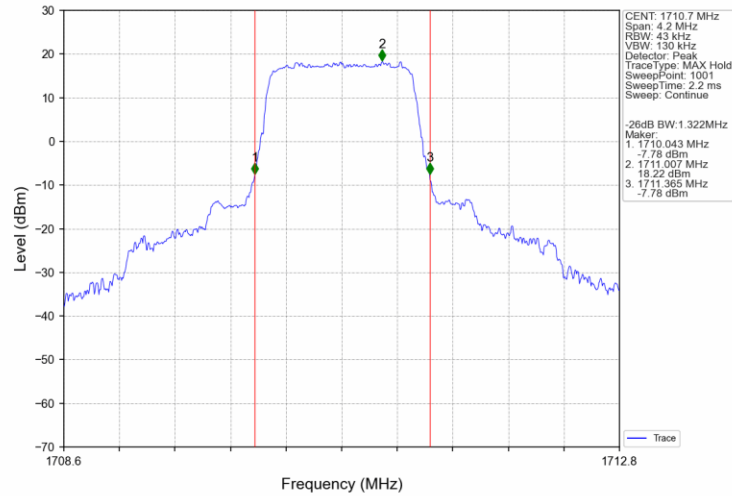


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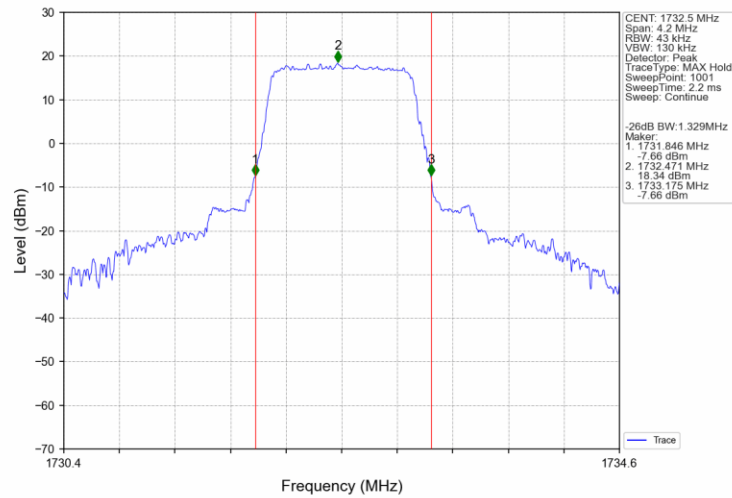


4.2.2 Band4_XDB

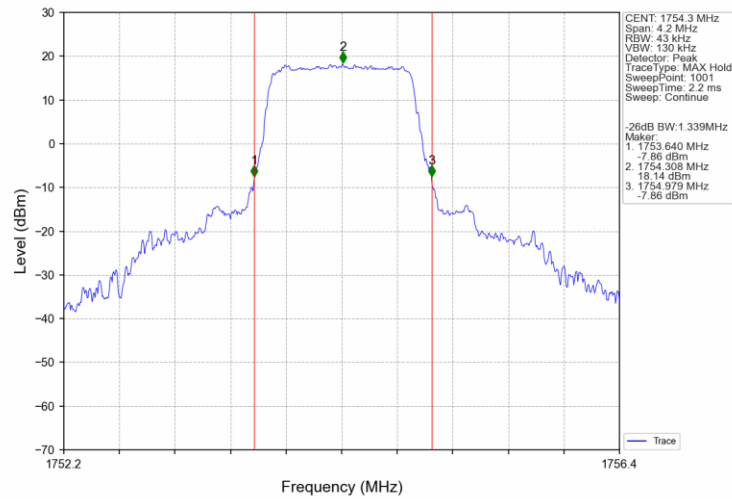
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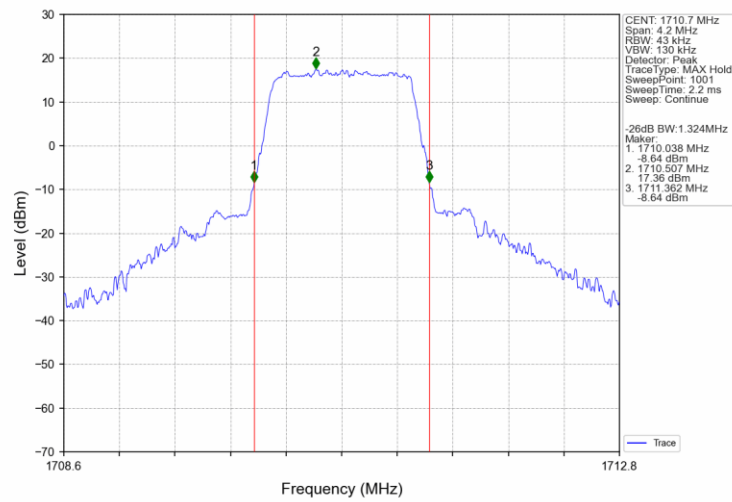
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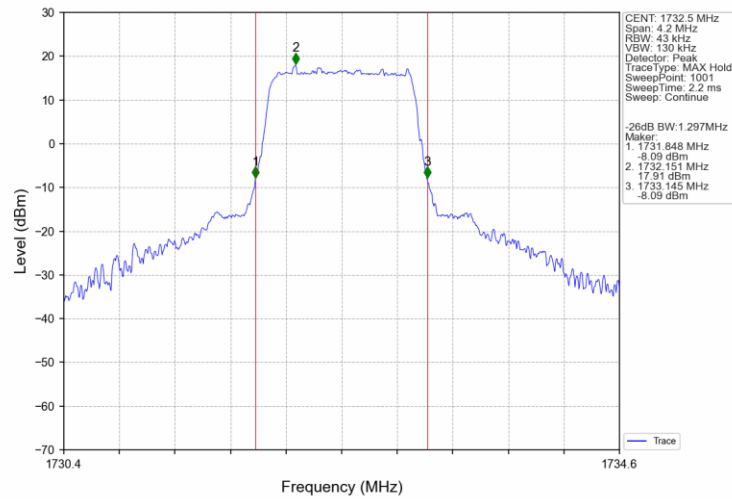
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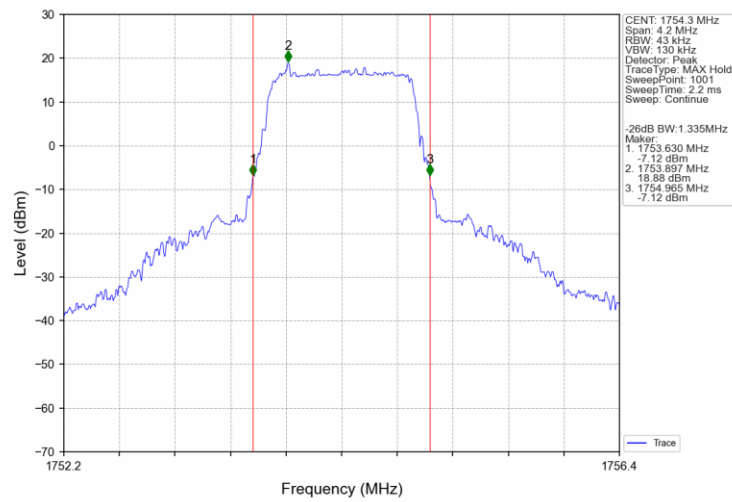
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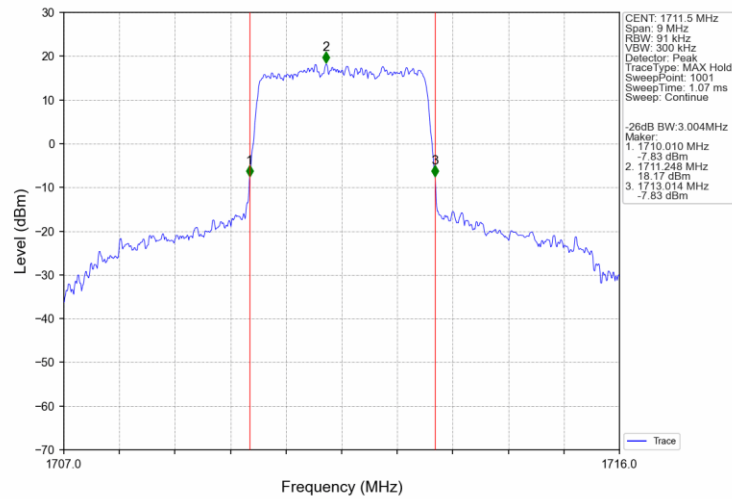
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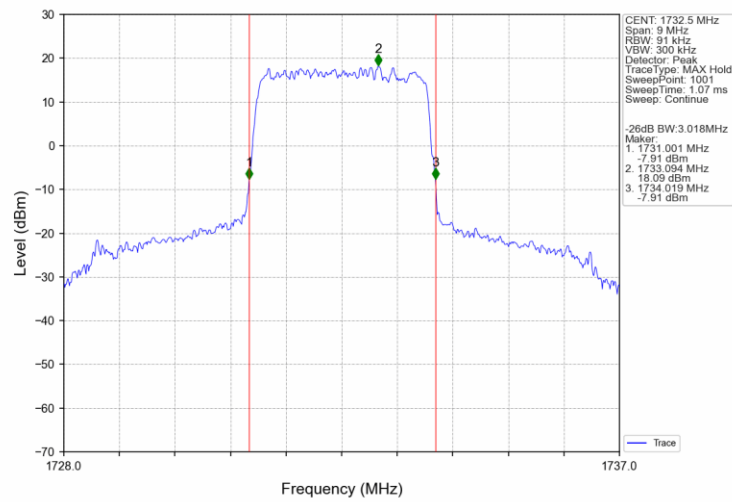
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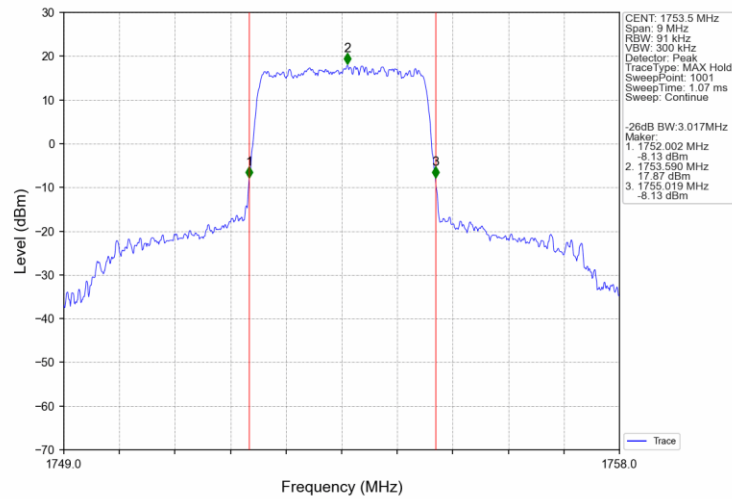
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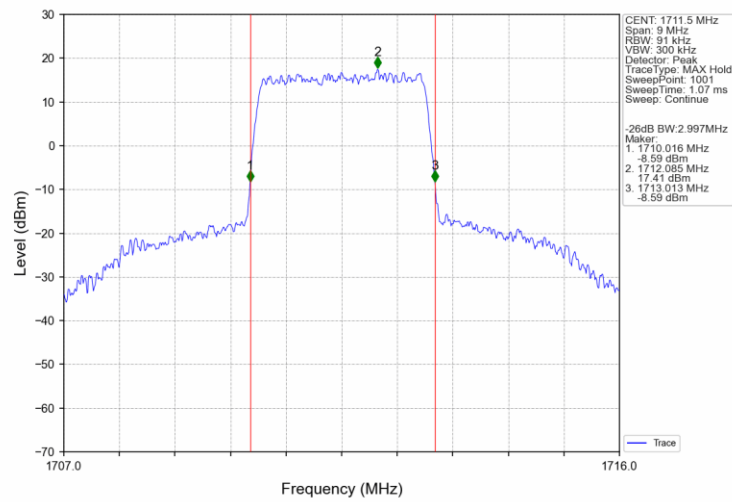
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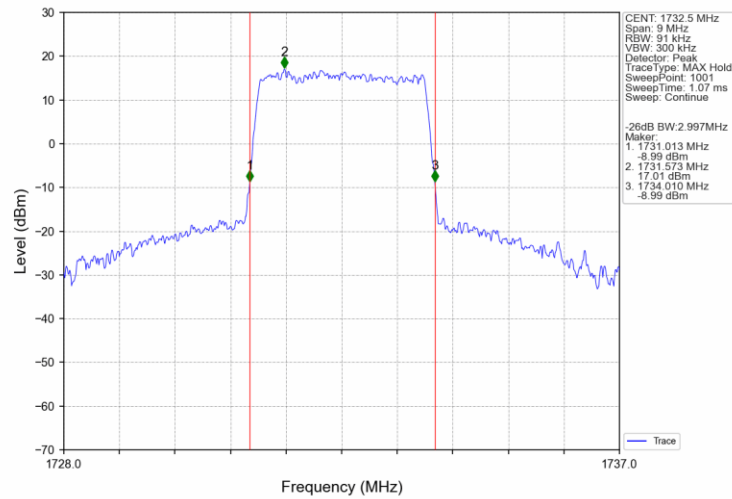
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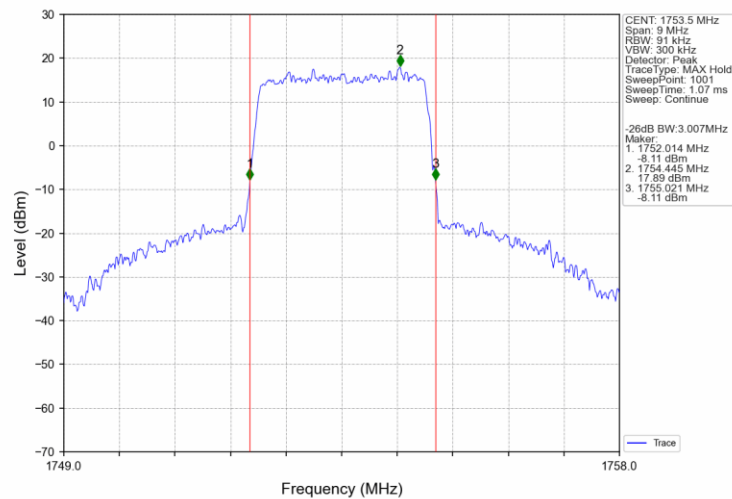
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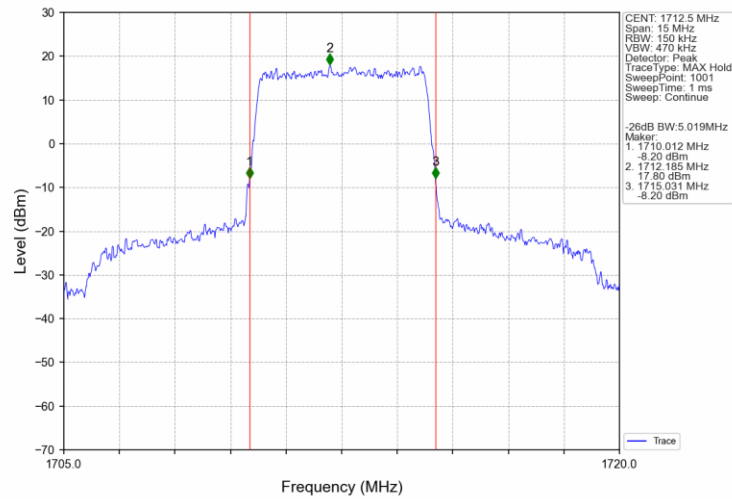
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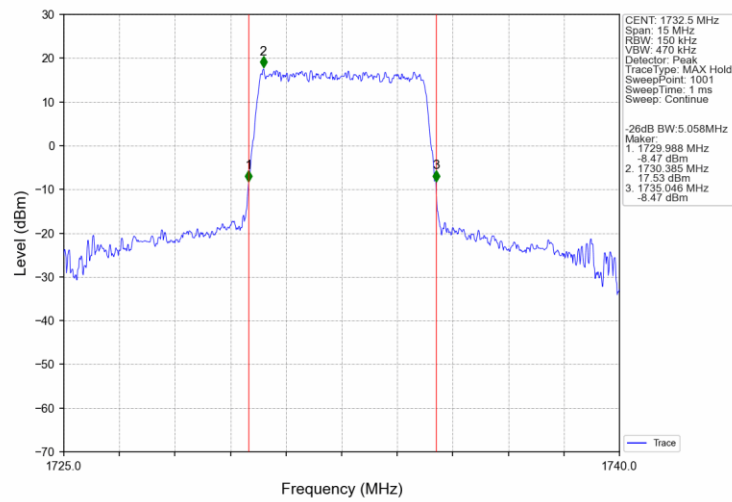
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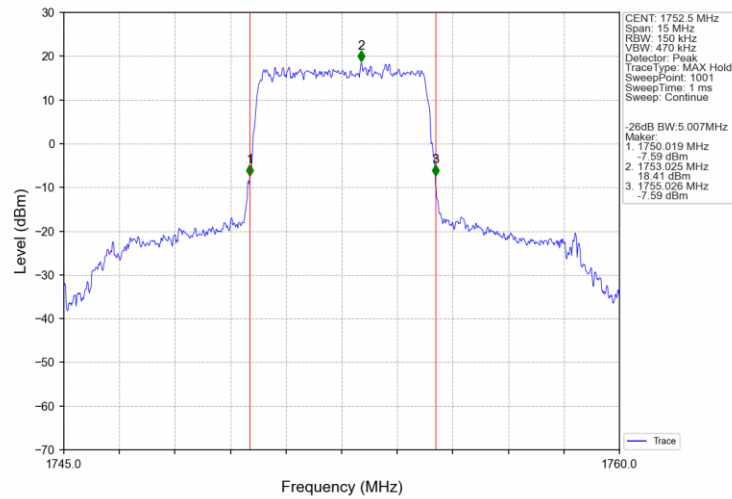
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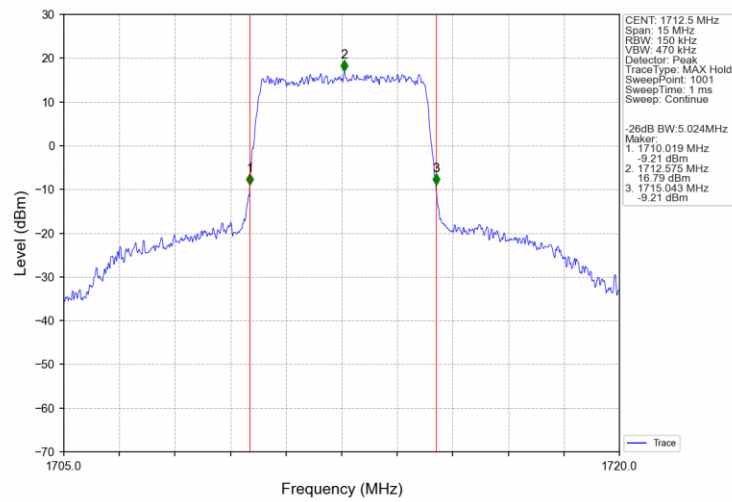
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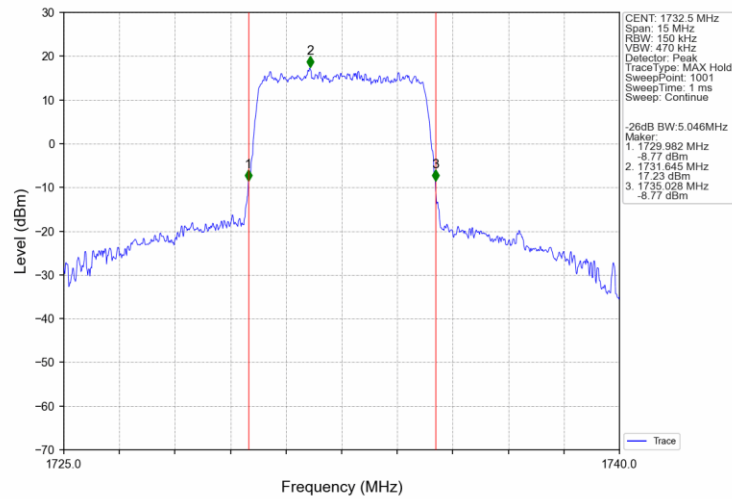
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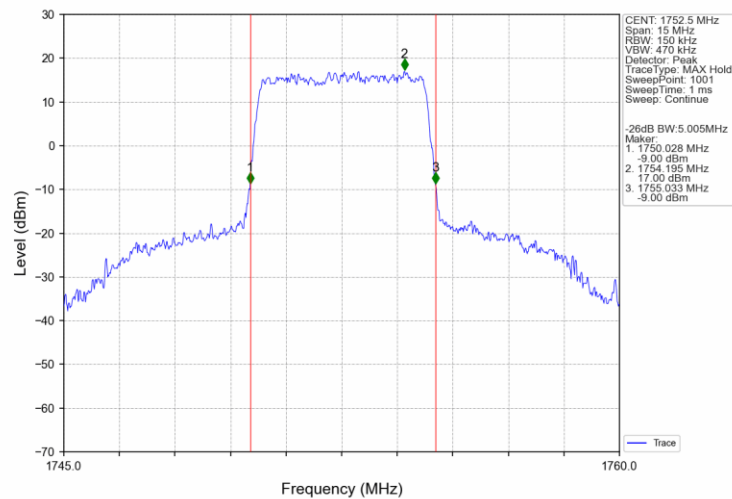
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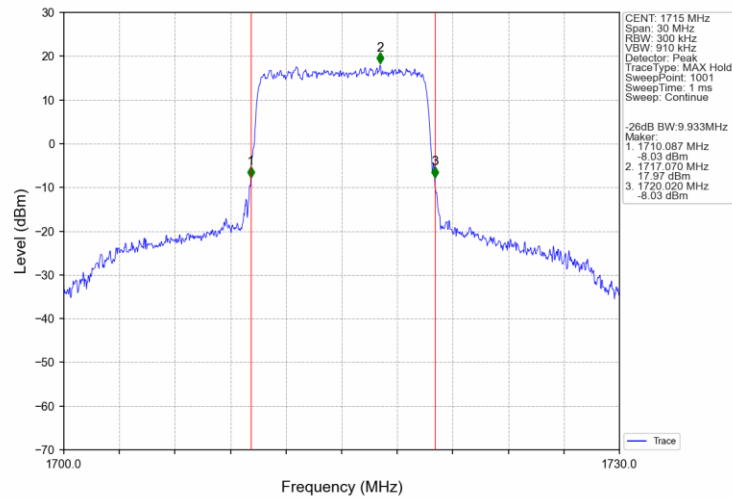
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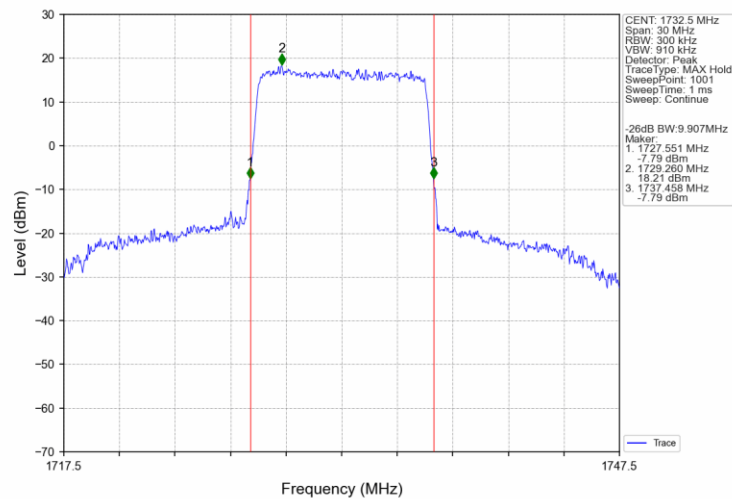
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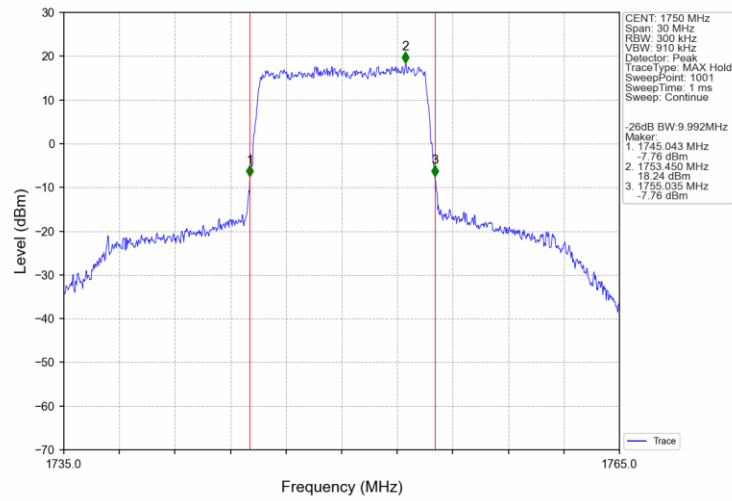
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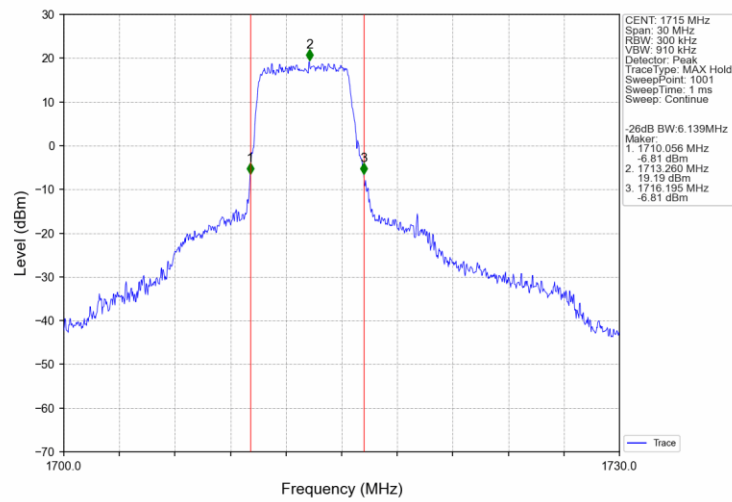
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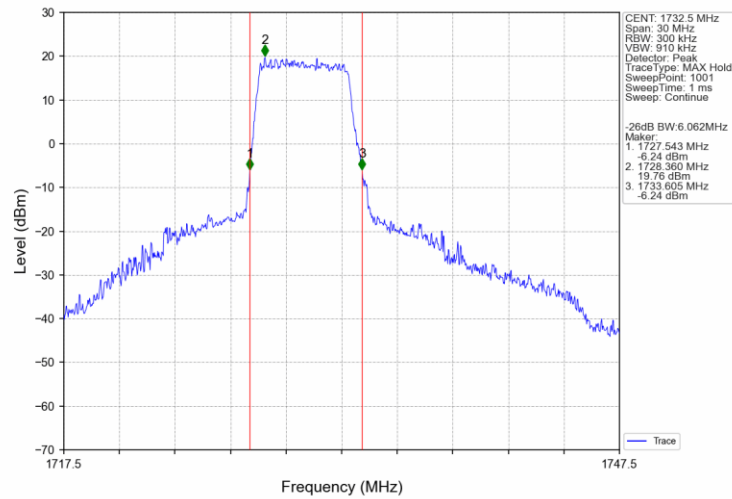
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Band4 10MHz 16QAM LCH 1715MHz RB 27 0 NTN



Band4 10MHz 16QAM MCH 1732.5MHz RB 27 0 NTN



Band4 10MHz 16QAM HCH 1750MHz RB 27 23 NTN

