

Appendix Test Data for LTE_band_4

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	23.64	1.80	25.44	<=30	Pass
			2	23.63	1.80	25.43	<=30	Pass
			5	23.56	1.80	25.36	<=30	Pass
		3	0	23.73	1.80	25.53	<=30	Pass
			2	23.77	1.80	25.57	<=30	Pass
			3	23.76	1.80	25.56	<=30	Pass
		6	0	22.74	1.80	24.54	<=30	Pass
	1732.5	1	0	23.41	1.80	25.21	<=30	Pass
			2	23.40	1.80	25.20	<=30	Pass
			5	23.44	1.80	25.24	<=30	Pass
		3	0	23.87	1.80	25.67	<=30	Pass
			2	23.85	1.80	25.65	<=30	Pass
			3	23.85	1.80	25.65	<=30	Pass
		6	0	22.94	1.80	24.74	<=30	Pass
	1754.3	1	0	23.35	1.80	25.15	<=30	Pass
			2	23.33	1.80	25.13	<=30	Pass
			5	23.33	1.80	25.13	<=30	Pass
		3	0	23.90	1.80	25.70	<=30	Pass
			2	23.88	1.80	25.68	<=30	Pass
			3	23.87	1.80	25.67	<=30	Pass
		6	0	22.89	1.80	24.69	<=30	Pass
16QAM	1710.7	1	0	22.36	1.80	24.16	<=30	Pass
			2	22.40	1.80	24.20	<=30	Pass
			5	22.40	1.80	24.20	<=30	Pass
		3	0	22.65	1.80	24.45	<=30	Pass
			2	22.67	1.80	24.47	<=30	Pass
			3	22.65	1.80	24.45	<=30	Pass
		6	0	21.64	1.80	23.44	<=30	Pass
	1732.5	1	0	22.32	1.80	24.12	<=30	Pass
			2	22.33	1.80	24.13	<=30	Pass
			5	22.33	1.80	24.13	<=30	Pass
		3	0	22.84	1.80	24.64	<=30	Pass
			2	22.80	1.80	24.60	<=30	Pass
			3	22.81	1.80	24.61	<=30	Pass
		6	0	21.96	1.80	23.76	<=30	Pass
	1754.3	1	0	22.56	1.80	24.36	<=30	Pass
			2	22.62	1.80	24.42	<=30	Pass
			5	22.49	1.80	24.29	<=30	Pass
		3	0	22.82	1.80	24.62	<=30	Pass
			2	22.80	1.80	24.60	<=30	Pass
			3	22.79	1.80	24.59	<=30	Pass

		6	0	21.95	1.80	23.75	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.2 B4 3MHz EIRP

Band: 4 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	23.16	1.80	24.96	<=30	Pass
			7	23.20	1.80	25.00	<=30	Pass
			14	23.14	1.80	24.94	<=30	Pass
		8	0	22.69	1.80	24.49	<=30	Pass
			4	22.71	1.80	24.51	<=30	Pass
			7	22.71	1.80	24.51	<=30	Pass
		15	0	22.72	1.80	24.52	<=30	Pass
	1732.5	1	0	23.39	1.80	25.19	<=30	Pass
			7	23.41	1.80	25.21	<=30	Pass
			14	23.37	1.80	25.17	<=30	Pass
		8	0	22.89	1.80	24.69	<=30	Pass
			4	22.84	1.80	24.64	<=30	Pass
			7	22.86	1.80	24.66	<=30	Pass
		15	0	22.83	1.80	24.63	<=30	Pass
	1753.5	1	0	23.33	1.80	25.13	<=30	Pass
			7	23.36	1.80	25.16	<=30	Pass
			14	23.31	1.80	25.11	<=30	Pass
		8	0	22.81	1.80	24.61	<=30	Pass
			4	22.82	1.80	24.62	<=30	Pass
			7	22.78	1.80	24.58	<=30	Pass
		15	0	22.80	1.80	24.60	<=30	Pass
16QAM	1711.5	1	0	22.41	1.80	24.21	<=30	Pass
			7	22.38	1.80	24.18	<=30	Pass
			14	22.35	1.80	24.15	<=30	Pass
		8	0	21.73	1.80	23.53	<=30	Pass
			4	21.73	1.80	23.53	<=30	Pass
			7	21.75	1.80	23.55	<=30	Pass
		15	0	21.64	1.80	23.44	<=30	Pass
	1732.5	1	0	22.28	1.80	24.08	<=30	Pass
			7	22.29	1.80	24.09	<=30	Pass
			14	22.29	1.80	24.09	<=30	Pass
		8	0	21.94	1.80	23.74	<=30	Pass
			4	21.90	1.80	23.70	<=30	Pass
			7	21.89	1.80	23.69	<=30	Pass
		15	0	21.79	1.80	23.59	<=30	Pass
	1753.5	1	0	22.49	1.80	24.29	<=30	Pass
			7	22.55	1.80	24.35	<=30	Pass
			14	22.45	1.80	24.25	<=30	Pass
		8	0	21.89	1.80	23.69	<=30	Pass
			4	21.88	1.80	23.68	<=30	Pass
			7	21.87	1.80	23.67	<=30	Pass
		15	0	21.83	1.80	23.63	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	23.32	1.80	25.12	<=30	Pass
			13	23.28	1.80	25.08	<=30	Pass
			24	23.34	1.80	25.14	<=30	Pass
		12	0	22.69	1.80	24.49	<=30	Pass
			6	22.74	1.80	24.54	<=30	Pass
			13	22.74	1.80	24.54	<=30	Pass
		25	0	22.77	1.80	24.57	<=30	Pass
	1732.5	1	0	23.54	1.80	25.34	<=30	Pass
			13	23.51	1.80	25.31	<=30	Pass
			24	23.60	1.80	25.40	<=30	Pass
		12	0	22.95	1.80	24.75	<=30	Pass
			6	22.90	1.80	24.70	<=30	Pass
			13	22.90	1.80	24.70	<=30	Pass
		25	0	22.93	1.80	24.73	<=30	Pass
	1752.5	1	0	23.53	1.80	25.33	<=30	Pass
			13	23.46	1.80	25.26	<=30	Pass
			24	23.50	1.80	25.30	<=30	Pass
		12	0	22.82	1.80	24.62	<=30	Pass
			6	22.83	1.80	24.63	<=30	Pass
			13	22.81	1.80	24.61	<=30	Pass
		25	0	22.87	1.80	24.67	<=30	Pass
16QAM	1712.5	1	0	22.44	1.80	24.24	<=30	Pass
			13	22.40	1.80	24.20	<=30	Pass
			24	22.48	1.80	24.28	<=30	Pass
		12	0	21.73	1.80	23.53	<=30	Pass
			6	21.79	1.80	23.59	<=30	Pass
			13	21.79	1.80	23.59	<=30	Pass
		25	0	21.73	1.80	23.53	<=30	Pass
	1732.5	1	0	22.64	1.80	24.44	<=30	Pass
			13	22.54	1.80	24.34	<=30	Pass
			24	22.63	1.80	24.43	<=30	Pass
		12	0	21.96	1.80	23.76	<=30	Pass
			6	21.91	1.80	23.71	<=30	Pass
			13	21.91	1.80	23.71	<=30	Pass
		25	0	21.98	1.80	23.78	<=30	Pass
	1752.5	1	0	22.44	1.80	24.24	<=30	Pass
			13	22.40	1.80	24.20	<=30	Pass
			24	22.43	1.80	24.23	<=30	Pass
		12	0	21.83	1.80	23.63	<=30	Pass
			6	21.83	1.80	23.63	<=30	Pass
			13	21.82	1.80	23.62	<=30	Pass
		25	0	21.86	1.80	23.66	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	23.17	1.80	24.97	<=30	Pass
			25	23.16	1.80	24.96	<=30	Pass
			49	23.25	1.80	25.05	<=30	Pass
		25	0	22.67	1.80	24.47	<=30	Pass
			13	22.77	1.80	24.57	<=30	Pass
			25	22.85	1.80	24.65	<=30	Pass
		50	0	22.76	1.80	24.56	<=30	Pass
	1732.5	1	0	23.37	1.80	25.17	<=30	Pass
			25	23.44	1.80	25.24	<=30	Pass
			49	23.44	1.80	25.24	<=30	Pass
		25	0	22.91	1.80	24.71	<=30	Pass
			13	22.91	1.80	24.71	<=30	Pass
			25	22.93	1.80	24.73	<=30	Pass
		50	0	22.93	1.80	24.73	<=30	Pass
	1750	1	0	23.29	1.80	25.09	<=30	Pass
			25	23.32	1.80	25.12	<=30	Pass
			49	23.36	1.80	25.16	<=30	Pass
		25	0	22.79	1.80	24.59	<=30	Pass
			13	22.80	1.80	24.60	<=30	Pass
			25	22.83	1.80	24.63	<=30	Pass
		50	0	22.84	1.80	24.64	<=30	Pass
16QAM	1715	1	0	22.40	1.80	24.20	<=30	Pass
			25	22.41	1.80	24.21	<=30	Pass
			49	22.49	1.80	24.29	<=30	Pass
		12	0	22.70	1.80	24.50	<=30	Pass
			19	22.77	1.80	24.57	<=30	Pass
			38	22.85	1.80	24.65	<=30	Pass
		27	0	21.66	1.80	23.46	<=30	Pass
	1732.5	1	0	22.29	1.80	24.09	<=30	Pass
			25	22.28	1.80	24.08	<=30	Pass
			49	22.34	1.80	24.14	<=30	Pass
		12	0	22.84	1.80	24.64	<=30	Pass
			19	22.91	1.80	24.71	<=30	Pass
			38	22.89	1.80	24.69	<=30	Pass
		27	0	21.85	1.80	23.65	<=30	Pass
	1750	1	0	22.47	1.80	24.27	<=30	Pass
			25	22.46	1.80	24.26	<=30	Pass
			49	22.48	1.80	24.28	<=30	Pass
		12	0	22.85	1.80	24.65	<=30	Pass
			19	22.83	1.80	24.63	<=30	Pass
			38	22.91	1.80	24.71	<=30	Pass
		27	23	21.84	1.80	23.64	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	23.07	1.80	24.87	<=30	Pass
			38	23.17	1.80	24.97	<=30	Pass
			74	23.20	1.80	25.00	<=30	Pass
		36	0	22.58	1.80	24.38	<=30	Pass
			18	22.68	1.80	24.48	<=30	Pass
			39	22.79	1.80	24.59	<=30	Pass
		75	0	22.71	1.80	24.51	<=30	Pass
	1732.5	1	0	23.27	1.80	25.07	<=30	Pass
			38	23.40	1.80	25.20	<=30	Pass
			74	23.33	1.80	25.13	<=30	Pass
		36	0	22.83	1.80	24.63	<=30	Pass
			18	22.85	1.80	24.65	<=30	Pass
			39	22.85	1.80	24.65	<=30	Pass
		75	0	22.88	1.80	24.68	<=30	Pass
	1747.5	1	0	23.27	1.80	25.07	<=30	Pass
			38	23.37	1.80	25.17	<=30	Pass
			74	23.25	1.80	25.05	<=30	Pass
		36	0	22.77	1.80	24.57	<=30	Pass
			18	22.79	1.80	24.59	<=30	Pass
			39	22.79	1.80	24.59	<=30	Pass
		75	0	22.81	1.80	24.61	<=30	Pass
16QAM	1717.5	1	0	22.38	1.80	24.18	<=30	Pass
			38	22.46	1.80	24.26	<=30	Pass
			74	22.53	1.80	24.33	<=30	Pass
		12	0	22.70	1.80	24.50	<=30	Pass
			31	22.79	1.80	24.59	<=30	Pass
			63	22.84	1.80	24.64	<=30	Pass
		27	0	21.64	1.80	23.44	<=30	Pass
	1732.5	1	0	22.20	1.80	24.00	<=30	Pass
			38	22.29	1.80	24.09	<=30	Pass
			74	22.22	1.80	24.02	<=30	Pass
		12	0	22.80	1.80	24.60	<=30	Pass
			31	22.90	1.80	24.70	<=30	Pass
			63	22.86	1.80	24.66	<=30	Pass
		27	0	21.80	1.80	23.60	<=30	Pass
	1747.5	1	0	22.43	1.80	24.23	<=30	Pass
			38	22.54	1.80	24.34	<=30	Pass
			74	22.41	1.80	24.21	<=30	Pass
		12	0	22.83	1.80	24.63	<=30	Pass
			31	22.85	1.80	24.65	<=30	Pass
			63	22.85	1.80	24.65	<=30	Pass
		27	48	21.81	1.80	23.61	<=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	22.96	1.80	24.76	<=30	Pass
			50	23.12	1.80	24.92	<=30	Pass
			99	23.13	1.80	24.93	<=30	Pass
		50	0	22.58	1.80	24.38	<=30	Pass
			25	22.81	1.80	24.61	<=30	Pass
			50	22.89	1.80	24.69	<=30	Pass
		100	0	22.75	1.80	24.55	<=30	Pass
	1732.5	1	0	23.37	1.80	25.17	<=30	Pass
			50	23.51	1.80	25.31	<=30	Pass
			99	23.39	1.80	25.19	<=30	Pass
		50	0	22.85	1.80	24.65	<=30	Pass
			25	22.92	1.80	24.72	<=30	Pass
			50	22.93	1.80	24.73	<=30	Pass
		100	0	22.87	1.80	24.67	<=30	Pass
	1745	1	0	23.29	1.80	25.09	<=30	Pass
			50	23.37	1.80	25.17	<=30	Pass
			99	23.23	1.80	25.03	<=30	Pass
		50	0	22.78	1.80	24.58	<=30	Pass
			25	22.87	1.80	24.67	<=30	Pass
			50	22.82	1.80	24.62	<=30	Pass
		100	0	22.82	1.80	24.62	<=30	Pass
16QAM	1720	1	0	22.17	1.80	23.97	<=30	Pass
			50	22.32	1.80	24.12	<=30	Pass
			99	22.32	1.80	24.12	<=30	Pass
		12	0	22.62	1.80	24.42	<=30	Pass
			44	22.78	1.80	24.58	<=30	Pass
			88	22.79	1.80	24.59	<=30	Pass
		27	0	21.54	1.80	23.34	<=30	Pass
	1732.5	1	0	22.45	1.80	24.25	<=30	Pass
			50	22.60	1.80	24.40	<=30	Pass
			99	22.48	1.80	24.28	<=30	Pass
		12	0	22.80	1.80	24.60	<=30	Pass
			44	22.95	1.80	24.75	<=30	Pass
			88	22.80	1.80	24.60	<=30	Pass
		27	0	21.76	1.80	23.56	<=30	Pass
	1745	1	0	22.47	1.80	24.27	<=30	Pass
			50	22.57	1.80	24.37	<=30	Pass
			99	22.44	1.80	24.24	<=30	Pass
		12	0	22.86	1.80	24.66	<=30	Pass
			44	22.85	1.80	24.65	<=30	Pass
			88	22.81	1.80	24.61	<=30	Pass
		27	73	21.80	1.80	23.60	<=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	-1.688	-0.0010	-2.5 to 2.5	Pass
					3.85	0.100	0.0001	-2.5 to 2.5	Pass
					4.43	4.349	0.0025	-2.5 to 2.5	Pass
				-30	3.85	4.106	0.0024	-2.5 to 2.5	Pass
				-20	3.85	-5.550	-0.0032	-2.5 to 2.5	Pass
				-10	3.85	5.250	0.0031	-2.5 to 2.5	Pass
				0	3.85	-0.129	-0.0001	-2.5 to 2.5	Pass
				10	3.85	1.960	0.0011	-2.5 to 2.5	Pass
				30	3.85	-3.977	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-2.632	-0.0015	-2.5 to 2.5	Pass
				50	3.85	-2.875	-0.0017	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	9.685	0.0056	-2.5 to 2.5	Pass
					3.85	0.701	0.0004	-2.5 to 2.5	Pass
					4.43	2.046	0.0012	-2.5 to 2.5	Pass
				-30	3.85	4.106	0.0024	-2.5 to 2.5	Pass
				-20	3.85	3.891	0.0022	-2.5 to 2.5	Pass
				-10	3.85	9.584	0.0055	-2.5 to 2.5	Pass
				0	3.85	6.924	0.0040	-2.5 to 2.5	Pass
				10	3.85	7.396	0.0043	-2.5 to 2.5	Pass
				30	3.85	-2.933	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-1.988	-0.0011	-2.5 to 2.5	Pass
				50	3.85	1.445	0.0008	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	7.896	0.0045	-2.5 to 2.5	Pass
					3.85	-1.731	-0.0010	-2.5 to 2.5	Pass
					4.43	8.254	0.0047	-2.5 to 2.5	Pass
				-30	3.85	9.542	0.0054	-2.5 to 2.5	Pass
				-20	3.85	4.191	0.0024	-2.5 to 2.5	Pass
				-10	3.85	5.436	0.0031	-2.5 to 2.5	Pass
				0	3.85	10.657	0.0061	-2.5 to 2.5	Pass
				10	3.85	3.676	0.0021	-2.5 to 2.5	Pass
				30	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				40	3.85	-1.931	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-3.176	-0.0018	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	7.310	0.0043	-2.5 to 2.5	Pass
					3.85	-8.140	-0.0048	-2.5 to 2.5	Pass
					4.43	-4.592	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	5.865	0.0034	-2.5 to 2.5	Pass
				-20	3.85	-4.091	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	1.774	0.0010	-2.5 to 2.5	Pass
				0	3.85	-1.359	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-7.768	-0.0045	-2.5 to 2.5	Pass

				30	3.85	-7.253	-0.0042	-2.5 to 2.5	Pass
				40	3.85	3.204	0.0019	-2.5 to 2.5	Pass
				50	3.85	-5.865	-0.0034	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-2.990	-0.0017	-2.5 to 2.5	Pass
					3.85	-6.452	-0.0037	-2.5 to 2.5	Pass
					4.43	-5.836	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	10.300	0.0059	-2.5 to 2.5	Pass
				-20	3.85	-3.648	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-3.862	-0.0022	-2.5 to 2.5	Pass
				0	3.85	6.981	0.0040	-2.5 to 2.5	Pass
				10	3.85	-6.781	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-4.735	-0.0027	-2.5 to 2.5	Pass
				40	3.85	-4.420	-0.0026	-2.5 to 2.5	Pass
				50	3.85	2.832	0.0016	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	1.888	0.0011	-2.5 to 2.5	Pass
					3.85	-1.316	-0.0008	-2.5 to 2.5	Pass
					4.43	1.187	0.0007	-2.5 to 2.5	Pass
				-30	3.85	-3.576	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	8.011	0.0046	-2.5 to 2.5	Pass
				-10	3.85	-9.055	-0.0052	-2.5 to 2.5	Pass
				0	3.85	13.247	0.0076	-2.5 to 2.5	Pass
				10	3.85	3.762	0.0021	-2.5 to 2.5	Pass
				30	3.85	-1.059	-0.0006	-2.5 to 2.5	Pass
				40	3.85	-2.947	-0.0017	-2.5 to 2.5	Pass
				50	3.85	8.526	0.0049	-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	-3.805	-0.0022	-2.5 to 2.5	Pass
					3.85	-9.613	-0.0056	-2.5 to 2.5	Pass
					4.43	0.014	0.0000	-2.5 to 2.5	Pass
				-30	3.85	-4.363	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-1.702	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-5.193	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-2.017	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-6.323	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-2.332	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-4.320	-0.0025	-2.5 to 2.5	Pass
				50	3.85	1.473	0.0009	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	5.236	0.0030	-2.5 to 2.5	Pass
					3.85	-3.319	-0.0019	-2.5 to 2.5	Pass
					4.43	10.057	0.0058	-2.5 to 2.5	Pass
				-30	3.85	-2.561	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	3.777	0.0022	-2.5 to 2.5	Pass
				-10	3.85	6.566	0.0038	-2.5 to 2.5	Pass
				0	3.85	4.835	0.0028	-2.5 to 2.5	Pass
				10	3.85	-3.719	-0.0021	-2.5 to 2.5	Pass

				30	3.85	5.107	0.0029	-2.5 to 2.5	Pass
				40	3.85	-3.333	-0.0019	-2.5 to 2.5	Pass
				50	3.85	10.757	0.0062	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	3.505	0.0020	-2.5 to 2.5	Pass
					3.85	7.668	0.0044	-2.5 to 2.5	Pass
					4.43	2.360	0.0013	-2.5 to 2.5	Pass
				-30	3.85	-0.443	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	3.104	0.0018	-2.5 to 2.5	Pass
				-10	3.85	-3.362	-0.0019	-2.5 to 2.5	Pass
				0	3.85	1.788	0.0010	-2.5 to 2.5	Pass
				10	3.85	8.340	0.0048	-2.5 to 2.5	Pass
				30	3.85	-7.696	-0.0044	-2.5 to 2.5	Pass
				40	3.85	9.427	0.0054	-2.5 to 2.5	Pass
				50	3.85	3.004	0.0017	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	0.772	0.0005	-2.5 to 2.5	Pass
					3.85	-3.490	-0.0020	-2.5 to 2.5	Pass
					4.43	-4.621	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	-5.293	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	0.629	0.0004	-2.5 to 2.5	Pass
				-10	3.85	-5.322	-0.0031	-2.5 to 2.5	Pass
				0	3.85	-8.669	-0.0051	-2.5 to 2.5	Pass
				10	3.85	1.230	0.0007	-2.5 to 2.5	Pass
				30	3.85	3.505	0.0020	-2.5 to 2.5	Pass
				40	3.85	6.766	0.0040	-2.5 to 2.5	Pass
				50	3.85	-0.372	-0.0002	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	9.570	0.0055	-2.5 to 2.5	Pass
					3.85	-0.486	-0.0003	-2.5 to 2.5	Pass
					4.43	-3.276	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-2.532	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	2.131	0.0012	-2.5 to 2.5	Pass
				-10	3.85	0.887	0.0005	-2.5 to 2.5	Pass
				0	3.85	0.343	0.0002	-2.5 to 2.5	Pass
				10	3.85	-1.731	-0.0010	-2.5 to 2.5	Pass
				30	3.85	6.852	0.0040	-2.5 to 2.5	Pass
				40	3.85	3.562	0.0021	-2.5 to 2.5	Pass
				50	3.85	-0.629	-0.0004	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	-3.562	-0.0020	-2.5 to 2.5	Pass
					3.85	-2.418	-0.0014	-2.5 to 2.5	Pass
					4.43	1.831	0.0010	-2.5 to 2.5	Pass
				-30	3.85	5.121	0.0029	-2.5 to 2.5	Pass
				-20	3.85	5.064	0.0029	-2.5 to 2.5	Pass
				-10	3.85	-6.037	-0.0034	-2.5 to 2.5	Pass
				0	3.85	1.044	0.0006	-2.5 to 2.5	Pass
				10	3.85	9.670	0.0055	-2.5 to 2.5	Pass
				30	3.85	12.617	0.0072	-2.5 to 2.5	Pass
				40	3.85	7.095	0.0040	-2.5 to 2.5	Pass
				50	3.85	4.134	0.0024	-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	2.317	0.0014	-2.5 to 2.5	Pass
					3.85	1.173	0.0007	-2.5 to 2.5	Pass
					4.43	-3.076	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	0.043	0.0000	-2.5 to 2.5	Pass
				-20	3.85	-2.789	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-1.144	-0.0007	-2.5 to 2.5	Pass
				0	3.85	13.089	0.0076	-2.5 to 2.5	Pass
				10	3.85	6.967	0.0041	-2.5 to 2.5	Pass
				30	3.85	1.473	0.0009	-2.5 to 2.5	Pass
				40	3.85	8.941	0.0052	-2.5 to 2.5	Pass
				50	3.85	4.306	0.0025	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-0.043	0.0000	-2.5 to 2.5	Pass
					3.85	1.817	0.0010	-2.5 to 2.5	Pass
					4.43	8.211	0.0047	-2.5 to 2.5	Pass
				-30	3.85	-4.635	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	0.172	0.0001	-2.5 to 2.5	Pass
				-10	3.85	3.834	0.0022	-2.5 to 2.5	Pass
				0	3.85	2.403	0.0014	-2.5 to 2.5	Pass
				10	3.85	1.159	0.0007	-2.5 to 2.5	Pass
				30	3.85	-1.416	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-1.130	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-0.372	-0.0002	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	3.748	0.0021	-2.5 to 2.5	Pass
					3.85	-2.890	-0.0016	-2.5 to 2.5	Pass
					4.43	-0.544	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	-1.330	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	2.818	0.0016	-2.5 to 2.5	Pass
				-10	3.85	3.891	0.0022	-2.5 to 2.5	Pass
				0	3.85	7.195	0.0041	-2.5 to 2.5	Pass
				10	3.85	-2.589	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-0.086	0.0000	-2.5 to 2.5	Pass
				40	3.85	7.696	0.0044	-2.5 to 2.5	Pass
				50	3.85	-2.346	-0.0013	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	5.293	0.0031	-2.5 to 2.5	Pass
					3.85	0.587	0.0003	-2.5 to 2.5	Pass
					4.43	6.523	0.0038	-2.5 to 2.5	Pass
				-30	3.85	4.177	0.0024	-2.5 to 2.5	Pass
				-20	3.85	7.567	0.0044	-2.5 to 2.5	Pass
				-10	3.85	2.804	0.0016	-2.5 to 2.5	Pass
				0	3.85	2.360	0.0014	-2.5 to 2.5	Pass
				10	3.85	4.606	0.0027	-2.5 to 2.5	Pass
				30	3.85	3.834	0.0022	-2.5 to 2.5	Pass
				40	3.85	2.046	0.0012	-2.5 to 2.5	Pass
				50	3.85	6.237	0.0036	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-2.875	-0.0017	-2.5 to 2.5	Pass
					3.85	-4.077	-0.0024	-2.5 to 2.5	Pass

					4.43	0.072	0.0000	-2.5 to 2.5	Pass
				-30	3.85	1.874	0.0011	-2.5 to 2.5	Pass
				-20	3.85	-4.063	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	0.772	0.0004	-2.5 to 2.5	Pass
				0	3.85	1.731	0.0010	-2.5 to 2.5	Pass
				10	3.85	1.459	0.0008	-2.5 to 2.5	Pass
				30	3.85	-3.691	-0.0021	-2.5 to 2.5	Pass
				40	3.85	-1.516	-0.0009	-2.5 to 2.5	Pass
				50	3.85	5.980	0.0035	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	0.858	0.0005	-2.5 to 2.5	Pass
					3.85	1.373	0.0008	-2.5 to 2.5	Pass
					4.43	-4.435	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	5.021	0.0029	-2.5 to 2.5	Pass
				-20	3.85	2.532	0.0014	-2.5 to 2.5	Pass
				-10	3.85	-0.386	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-1.774	-0.0010	-2.5 to 2.5	Pass
				10	3.85	1.559	0.0009	-2.5 to 2.5	Pass
				30	3.85	-3.533	-0.0020	-2.5 to 2.5	Pass
				40	3.85	-3.662	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-3.319	-0.0019	-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	2.103	0.0012	-2.5 to 2.5	Pass
					3.85	2.861	0.0017	-2.5 to 2.5	Pass
					4.43	2.990	0.0017	-2.5 to 2.5	Pass
				-30	3.85	1.345	0.0008	-2.5 to 2.5	Pass
				-20	3.85	4.320	0.0025	-2.5 to 2.5	Pass
				-10	3.85	5.150	0.0030	-2.5 to 2.5	Pass
				0	3.85	3.963	0.0023	-2.5 to 2.5	Pass
				10	3.85	2.661	0.0016	-2.5 to 2.5	Pass
				30	3.85	3.834	0.0022	-2.5 to 2.5	Pass
				40	3.85	3.462	0.0020	-2.5 to 2.5	Pass
				50	3.85	-0.815	-0.0005	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-0.114	-0.0001	-2.5 to 2.5	Pass
					3.85	1.130	0.0007	-2.5 to 2.5	Pass
					4.43	1.230	0.0007	-2.5 to 2.5	Pass
				-30	3.85	0.486	0.0003	-2.5 to 2.5	Pass
				-20	3.85	-1.230	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	4.807	0.0028	-2.5 to 2.5	Pass
				0	3.85	-1.788	-0.0010	-2.5 to 2.5	Pass
				10	3.85	0.443	0.0003	-2.5 to 2.5	Pass
				30	3.85	2.031	0.0012	-2.5 to 2.5	Pass
				40	3.85	3.705	0.0021	-2.5 to 2.5	Pass
				50	3.85	5.565	0.0032	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	-1.216	-0.0007	-2.5 to 2.5	Pass
					3.85	4.849	0.0028	-2.5 to 2.5	Pass

					4.43	3.662	0.0021	-2.5 to 2.5	Pass
				-30	3.85	5.364	0.0031	-2.5 to 2.5	Pass
				-20	3.85	2.518	0.0014	-2.5 to 2.5	Pass
				-10	3.85	5.450	0.0031	-2.5 to 2.5	Pass
				0	3.85	4.535	0.0026	-2.5 to 2.5	Pass
				10	3.85	2.789	0.0016	-2.5 to 2.5	Pass
				30	3.85	4.077	0.0023	-2.5 to 2.5	Pass
				40	3.85	3.233	0.0018	-2.5 to 2.5	Pass
				50	3.85	4.363	0.0025	-2.5 to 2.5	Pass
16QAM	1715	27	0	20	3.27	0.486	0.0003	-2.5 to 2.5	Pass
					3.85	6.323	0.0037	-2.5 to 2.5	Pass
					4.43	-0.057	0.0000	-2.5 to 2.5	Pass
				-30	3.85	-0.129	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	1.359	0.0008	-2.5 to 2.5	Pass
				-10	3.85	-0.486	-0.0003	-2.5 to 2.5	Pass
				0	3.85	3.061	0.0018	-2.5 to 2.5	Pass
				10	3.85	2.203	0.0013	-2.5 to 2.5	Pass
				30	3.85	-0.072	0.0000	-2.5 to 2.5	Pass
				40	3.85	6.151	0.0036	-2.5 to 2.5	Pass
				50	3.85	3.648	0.0021	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.27	2.360	0.0014	-2.5 to 2.5	Pass
					3.85	-0.944	-0.0005	-2.5 to 2.5	Pass
					4.43	-3.533	-0.0020	-2.5 to 2.5	Pass
				-30	3.85	5.808	0.0034	-2.5 to 2.5	Pass
				-20	3.85	-2.475	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	1.631	0.0009	-2.5 to 2.5	Pass
				0	3.85	3.991	0.0023	-2.5 to 2.5	Pass
				10	3.85	0.930	0.0005	-2.5 to 2.5	Pass
				30	3.85	2.632	0.0015	-2.5 to 2.5	Pass
				40	3.85	1.187	0.0007	-2.5 to 2.5	Pass
				50	3.85	0.114	0.0001	-2.5 to 2.5	Pass
	1750	27	23	20	3.27	2.303	0.0013	-2.5 to 2.5	Pass
					3.85	-3.362	-0.0019	-2.5 to 2.5	Pass
					4.43	5.007	0.0029	-2.5 to 2.5	Pass
				-30	3.85	3.476	0.0020	-2.5 to 2.5	Pass
				-20	3.85	7.596	0.0043	-2.5 to 2.5	Pass
				-10	3.85	4.063	0.0023	-2.5 to 2.5	Pass
				0	3.85	-2.074	-0.0012	-2.5 to 2.5	Pass
				10	3.85	8.669	0.0050	-2.5 to 2.5	Pass
				30	3.85	3.762	0.0021	-2.5 to 2.5	Pass
				40	3.85	7.339	0.0042	-2.5 to 2.5	Pass
				50	3.85	14.191	0.0081	-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	1.001	0.0006	-2.5 to 2.5	Pass
					3.85	2.575	0.0015	-2.5 to 2.5	Pass

					4.43	2.575	0.0015	-2.5 to 2.5	Pass
				-30	3.85	1.202	0.0007	-2.5 to 2.5	Pass
				-20	3.85	1.402	0.0008	-2.5 to 2.5	Pass
				-10	3.85	2.031	0.0012	-2.5 to 2.5	Pass
				0	3.85	4.334	0.0025	-2.5 to 2.5	Pass
				10	3.85	2.260	0.0013	-2.5 to 2.5	Pass
				30	3.85	4.621	0.0027	-2.5 to 2.5	Pass
				40	3.85	2.818	0.0016	-2.5 to 2.5	Pass
				50	3.85	5.164	0.0030	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-1.345	-0.0008	-2.5 to 2.5	Pass
					3.85	1.187	0.0007	-2.5 to 2.5	Pass
					4.43	2.275	0.0013	-2.5 to 2.5	Pass
				-30	3.85	2.518	0.0015	-2.5 to 2.5	Pass
				-20	3.85	2.489	0.0014	-2.5 to 2.5	Pass
				-10	3.85	5.765	0.0033	-2.5 to 2.5	Pass
				0	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				10	3.85	1.974	0.0011	-2.5 to 2.5	Pass
				30	3.85	1.831	0.0011	-2.5 to 2.5	Pass
				40	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				50	3.85	1.516	0.0009	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	2.947	0.0017	-2.5 to 2.5	Pass
					3.85	-0.143	-0.0001	-2.5 to 2.5	Pass
					4.43	-0.615	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.629	0.0004	-2.5 to 2.5	Pass
				-20	3.85	3.147	0.0018	-2.5 to 2.5	Pass
				-10	3.85	0.257	0.0001	-2.5 to 2.5	Pass
				0	3.85	1.674	0.0010	-2.5 to 2.5	Pass
				10	3.85	0.300	0.0002	-2.5 to 2.5	Pass
				30	3.85	2.174	0.0012	-2.5 to 2.5	Pass
				40	3.85	3.991	0.0023	-2.5 to 2.5	Pass
				50	3.85	-0.858	-0.0005	-2.5 to 2.5	Pass
16QAM	1717.5	27	0	20	3.27	6.580	0.0038	-2.5 to 2.5	Pass
					3.85	1.245	0.0007	-2.5 to 2.5	Pass
					4.43	1.717	0.0010	-2.5 to 2.5	Pass
				-30	3.85	-0.157	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	4.106	0.0024	-2.5 to 2.5	Pass
				-10	3.85	1.431	0.0008	-2.5 to 2.5	Pass
				0	3.85	4.377	0.0025	-2.5 to 2.5	Pass
				10	3.85	8.469	0.0049	-2.5 to 2.5	Pass
				30	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				40	3.85	4.091	0.0024	-2.5 to 2.5	Pass
				50	3.85	0.687	0.0004	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.27	2.003	0.0012	-2.5 to 2.5	Pass
					3.85	1.659	0.0010	-2.5 to 2.5	Pass
					4.43	2.589	0.0015	-2.5 to 2.5	Pass
				-30	3.85	2.661	0.0015	-2.5 to 2.5	Pass
				-20	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				-10	3.85	4.292	0.0025	-2.5 to 2.5	Pass
				0	3.85	-3.033	-0.0018	-2.5 to 2.5	Pass
				10	3.85	4.120	0.0024	-2.5 to 2.5	Pass

	1747.5	27	48	30	3.85	-0.501	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				50	3.85	-5.007	-0.0029	-2.5 to 2.5	Pass
				20	3.27	-3.219	-0.0018	-2.5 to 2.5	Pass
					3.85	-3.605	-0.0021	-2.5 to 2.5	Pass
					4.43	4.306	0.0025	-2.5 to 2.5	Pass
				-30	3.85	0.830	0.0005	-2.5 to 2.5	Pass
				-20	3.85	0.372	0.0002	-2.5 to 2.5	Pass
				-10	3.85	-3.734	-0.0021	-2.5 to 2.5	Pass
				0	3.85	-0.772	-0.0004	-2.5 to 2.5	Pass
				10	3.85	0.587	0.0003	-2.5 to 2.5	Pass
				30	3.85	3.548	0.0020	-2.5 to 2.5	Pass
				40	3.85	-1.860	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-1.874	-0.0011	-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	2.389	0.0014	-2.5 to 2.5	Pass
					3.85	-0.987	-0.0006	-2.5 to 2.5	Pass
					4.43	1.860	0.0011	-2.5 to 2.5	Pass
				-30	3.85	1.159	0.0007	-2.5 to 2.5	Pass
				-20	3.85	1.917	0.0011	-2.5 to 2.5	Pass
				-10	3.85	1.702	0.0010	-2.5 to 2.5	Pass
				0	3.85	-1.445	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-1.431	-0.0008	-2.5 to 2.5	Pass
				30	3.85	2.675	0.0016	-2.5 to 2.5	Pass
				40	3.85	4.220	0.0025	-2.5 to 2.5	Pass
				50	3.85	2.103	0.0012	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	2.432	0.0014	-2.5 to 2.5	Pass
					3.85	2.317	0.0013	-2.5 to 2.5	Pass
					4.43	0.858	0.0005	-2.5 to 2.5	Pass
				-30	3.85	-1.616	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-0.730	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	0.973	0.0006	-2.5 to 2.5	Pass
				0	3.85	0.873	0.0005	-2.5 to 2.5	Pass
				10	3.85	0.315	0.0002	-2.5 to 2.5	Pass
				30	3.85	1.631	0.0009	-2.5 to 2.5	Pass
				40	3.85	0.544	0.0003	-2.5 to 2.5	Pass
				50	3.85	-0.114	-0.0001	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	3.533	0.0020	-2.5 to 2.5	Pass
					3.85	2.789	0.0016	-2.5 to 2.5	Pass
					4.43	0.987	0.0006	-2.5 to 2.5	Pass
				-30	3.85	2.604	0.0015	-2.5 to 2.5	Pass
				-20	3.85	5.665	0.0032	-2.5 to 2.5	Pass
				-10	3.85	4.206	0.0024	-2.5 to 2.5	Pass
				0	3.85	4.549	0.0026	-2.5 to 2.5	Pass
				10	3.85	5.336	0.0031	-2.5 to 2.5	Pass

				30	3.85	6.337	0.0036	-2.5 to 2.5	Pass
				40	3.85	1.488	0.0009	-2.5 to 2.5	Pass
				50	3.85	1.645	0.0009	-2.5 to 2.5	Pass
16QAM	1720	27	0	20	3.27	1.574	0.0009	-2.5 to 2.5	Pass
					3.85	1.187	0.0007	-2.5 to 2.5	Pass
					4.43	1.502	0.0009	-2.5 to 2.5	Pass
				-30	3.85	-0.901	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-1.345	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	1.044	0.0006	-2.5 to 2.5	Pass
				0	3.85	5.779	0.0034	-2.5 to 2.5	Pass
				10	3.85	2.117	0.0012	-2.5 to 2.5	Pass
				30	3.85	2.146	0.0012	-2.5 to 2.5	Pass
				40	3.85	4.148	0.0024	-2.5 to 2.5	Pass
				50	3.85	0.072	0.0000	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.27	-1.245	-0.0007	-2.5 to 2.5	Pass
					3.85	-2.117	-0.0012	-2.5 to 2.5	Pass
					4.43	-2.890	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-6.194	-0.0036	-2.5 to 2.5	Pass
				-20	3.85	1.144	0.0007	-2.5 to 2.5	Pass
				-10	3.85	-2.160	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-3.934	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-0.257	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-0.458	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-2.203	-0.0013	-2.5 to 2.5	Pass
				50	3.85	3.705	0.0021	-2.5 to 2.5	Pass
	1745	27	73	20	3.27	6.924	0.0040	-2.5 to 2.5	Pass
					3.85	4.506	0.0026	-2.5 to 2.5	Pass
					4.43	1.373	0.0008	-2.5 to 2.5	Pass
				-30	3.85	1.602	0.0009	-2.5 to 2.5	Pass
				-20	3.85	3.633	0.0021	-2.5 to 2.5	Pass
				-10	3.85	8.941	0.0051	-2.5 to 2.5	Pass
				0	3.85	0.172	0.0001	-2.5 to 2.5	Pass
				10	3.85	-0.315	-0.0002	-2.5 to 2.5	Pass
				30	3.85	4.706	0.0027	-2.5 to 2.5	Pass
				40	3.85	1.230	0.0007	-2.5 to 2.5	Pass
				50	3.85	-0.329	-0.0002	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTN					
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 / NTV						
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 / NTV						
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

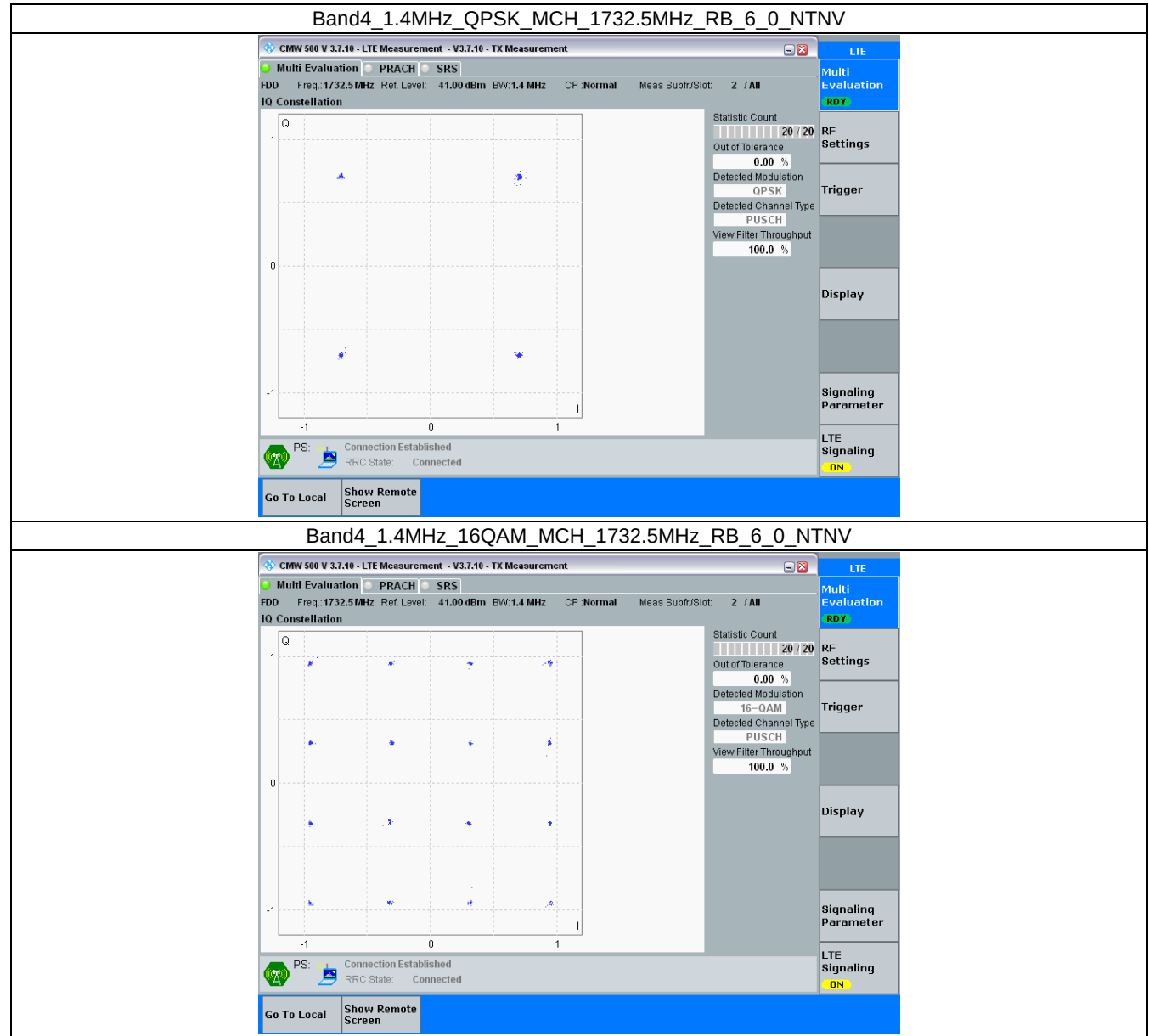
Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	27	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

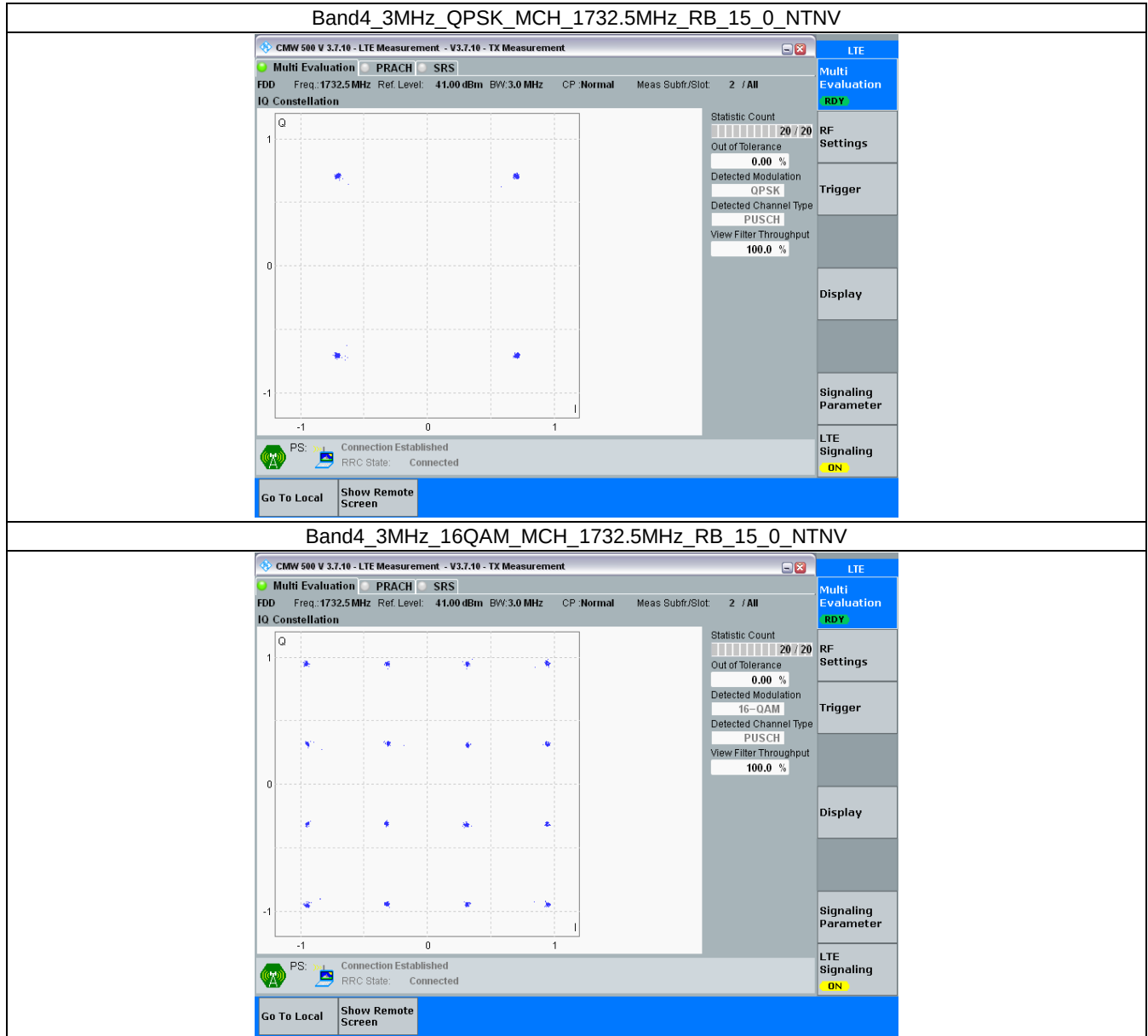
Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	27	0	Refer To Test Graph		Pass

3.2 Test Graph

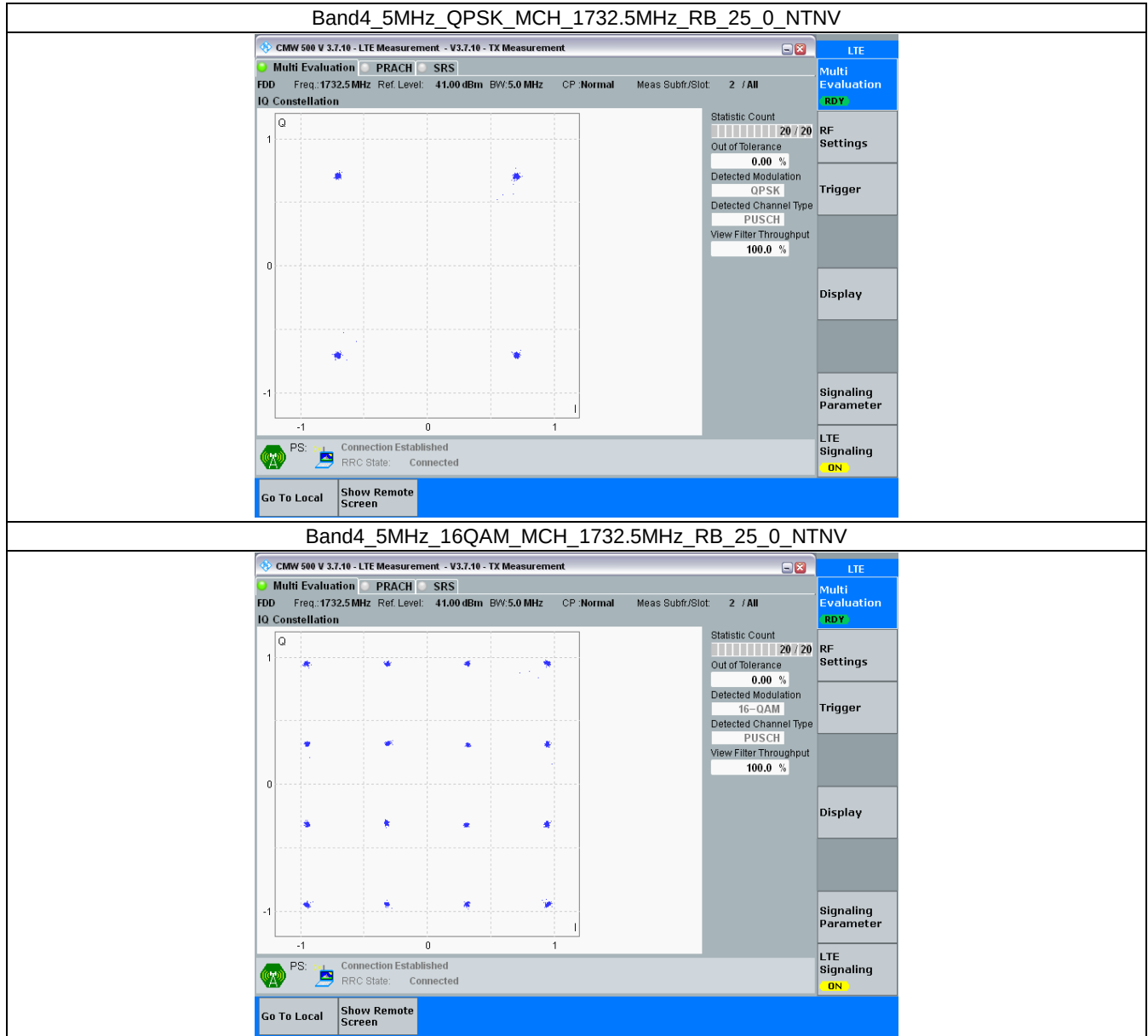
3.2.1 B4_1.4MHz



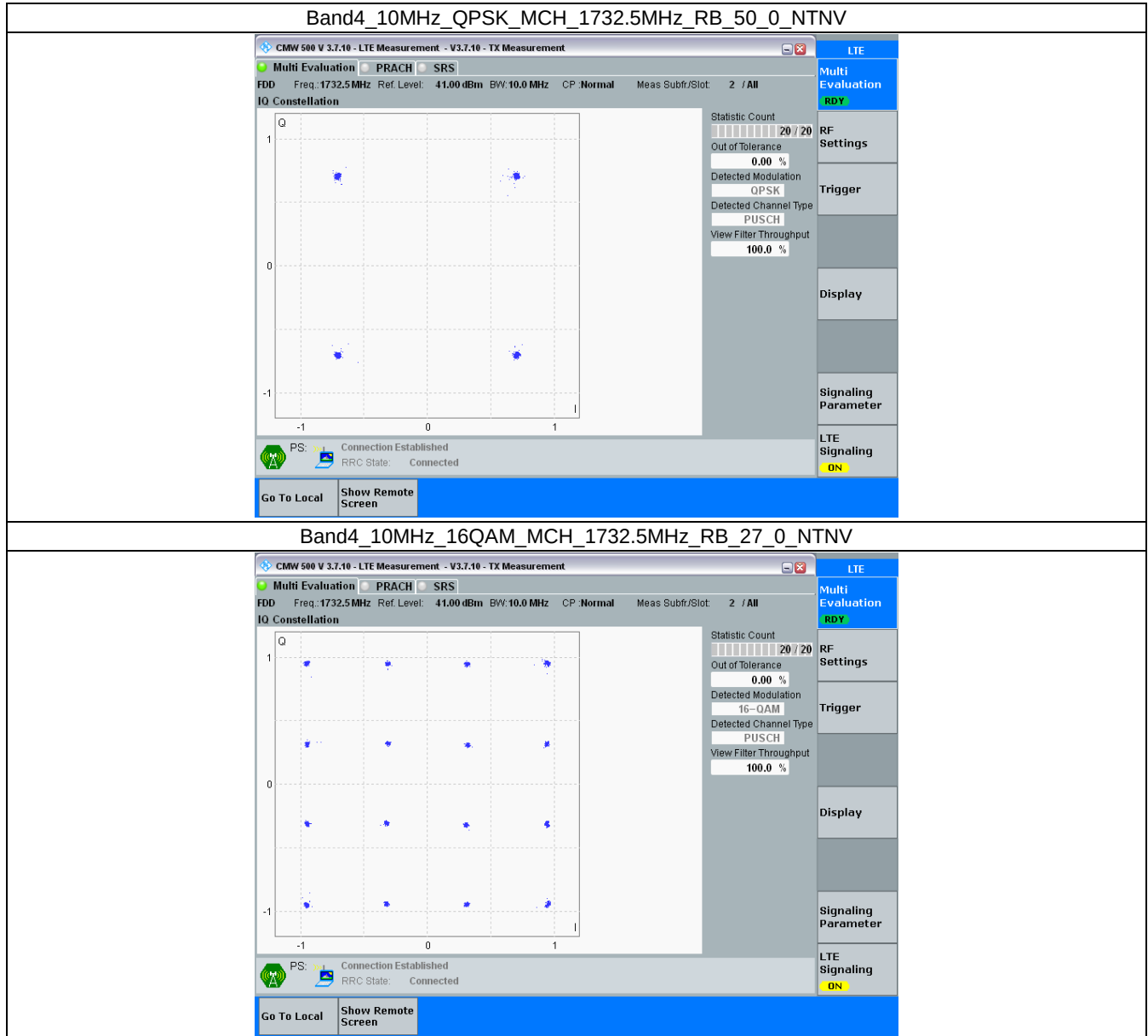
3.2.2 B4_3MHz



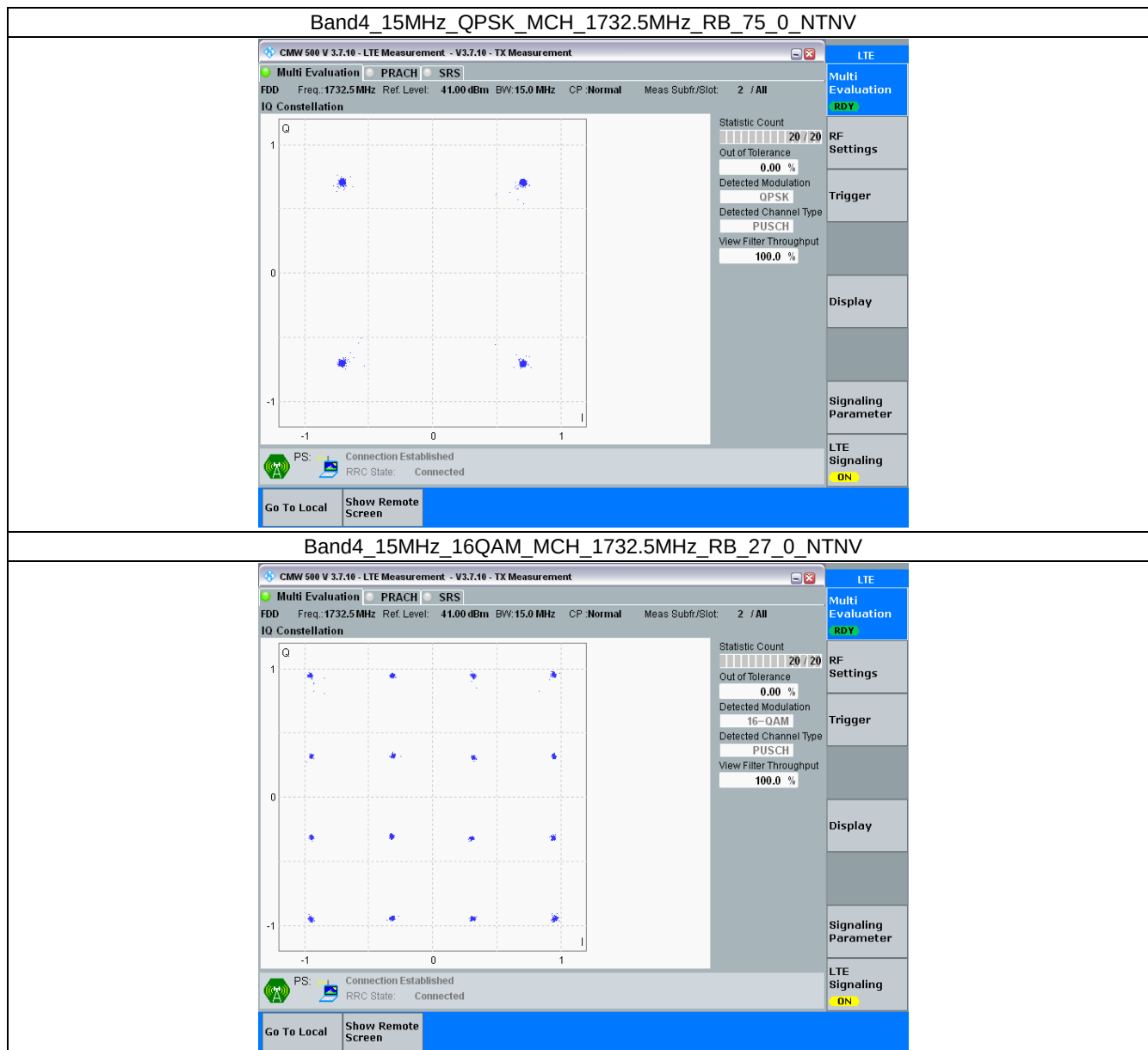
3.2.3 B4_5MHz



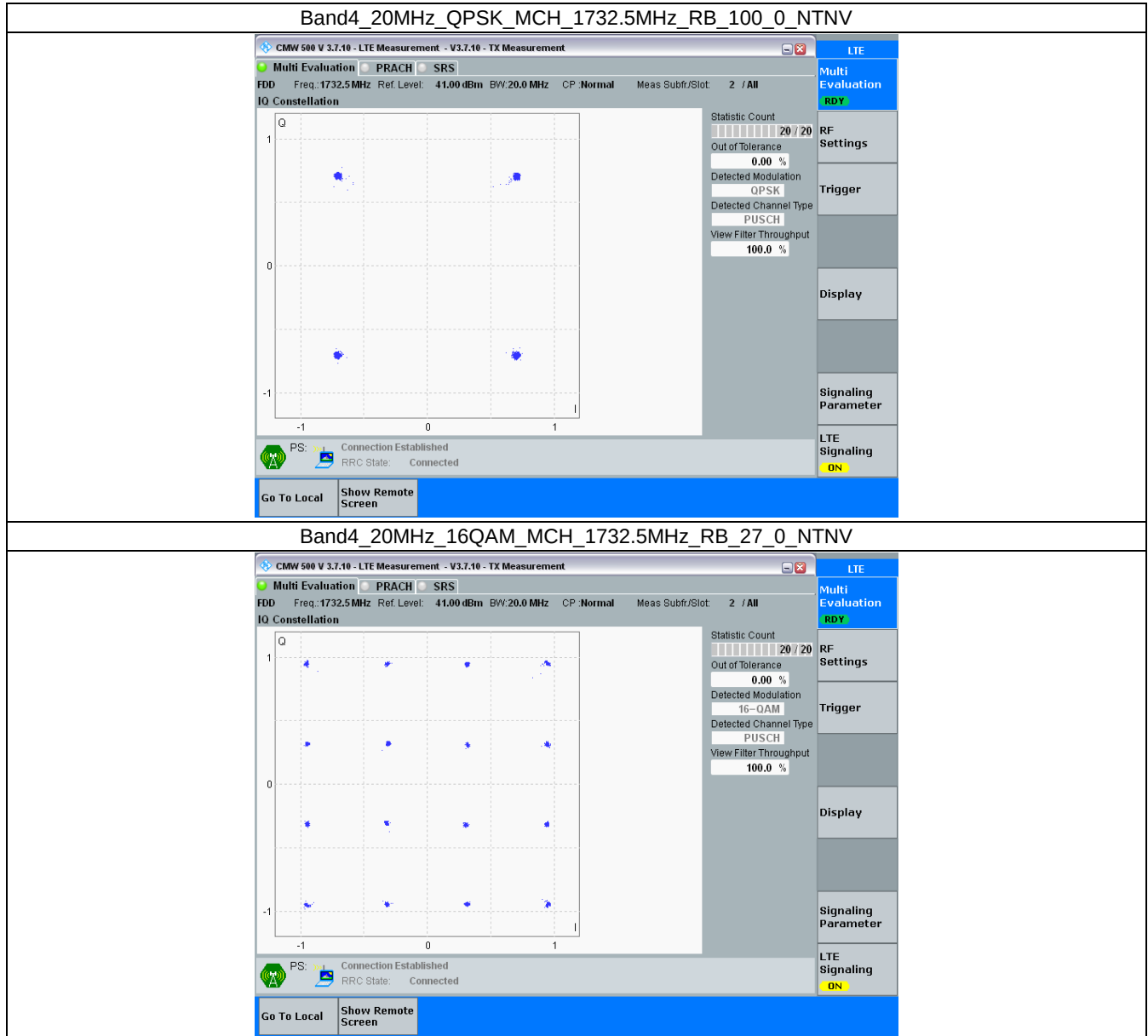
3.2.4 B4_10MHz



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 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.078	/	Pass
		1732.5	6	0	1.086	/	Pass
		1754.3	6	0	1.081	/	Pass
	16QAM	1710.7	6	0	1.082	/	Pass
		1732.5	6	0	1.082	/	Pass
		1754.3	6	0	1.078	/	Pass
3	QPSK	1711.5	15	0	2.683	/	Pass
		1732.5	15	0	2.689	/	Pass
		1753.5	15	0	2.683	/	Pass
	16QAM	1711.5	15	0	2.684	/	Pass
		1732.5	15	0	2.683	/	Pass
		1753.5	15	0	2.679	/	Pass
5	QPSK	1712.5	25	0	4.469	/	Pass
		1732.5	25	0	4.483	/	Pass
		1752.5	25	0	4.469	/	Pass
	16QAM	1712.5	25	0	4.472	/	Pass
		1732.5	25	0	4.468	/	Pass
		1752.5	25	0	4.470	/	Pass
10	QPSK	1715	50	0	8.962	/	Pass
		1732.5	50	0	8.943	/	Pass
		1750	50	0	8.966	/	Pass
	16QAM	1715	27	0	4.852	/	Pass
		1732.5	27	0	4.842	/	Pass
		1750	27	23	4.832	/	Pass
15	QPSK	1717.5	75	0	13.407	/	Pass
		1732.5	75	0	13.401	/	Pass
		1747.5	75	0	13.433	/	Pass
	16QAM	1717.5	27	0	4.833	/	Pass
		1732.5	27	0	4.843	/	Pass
		1747.5	27	48	4.830	/	Pass
20	QPSK	1720	100	0	17.872	/	Pass
		1732.5	100	0	17.856	/	Pass
		1745	100	0	17.899	/	Pass
	16QAM	1720	27	0	4.847	/	Pass
		1732.5	27	0	4.842	/	Pass
		1745	27	73	4.839	/	Pass

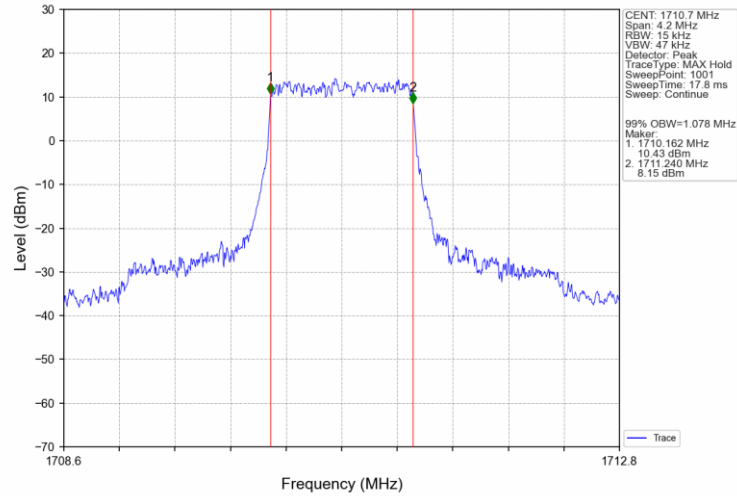
4.1.2 Band4_XDB

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	1.229	/	Pass
		1732.5	6	0	1.237	/	Pass
		1754.3	6	0	1.268	/	Pass
	16QAM	1710.7	6	0	1.265	/	Pass
		1732.5	6	0	1.252	/	Pass
		1754.3	6	0	1.220	/	Pass
3	QPSK	1711.5	15	0	2.897	/	Pass
		1732.5	15	0	2.890	/	Pass
		1753.5	15	0	2.880	/	Pass
	16QAM	1711.5	15	0	2.913	/	Pass
		1732.5	15	0	2.882	/	Pass
		1753.5	15	0	2.909	/	Pass
5	QPSK	1712.5	25	0	4.868	/	Pass
		1732.5	25	0	4.848	/	Pass
		1752.5	25	0	4.892	/	Pass
	16QAM	1712.5	25	0	4.855	/	Pass
		1732.5	25	0	4.877	/	Pass
		1752.5	25	0	4.796	/	Pass
10	QPSK	1715	50	0	9.604	/	Pass
		1732.5	50	0	9.514	/	Pass
		1750	50	0	9.597	/	Pass
	16QAM	1715	27	0	5.497	/	Pass
		1732.5	27	0	5.504	/	Pass
		1750	27	23	5.502	/	Pass
15	QPSK	1717.5	75	0	14.435	/	Pass
		1732.5	75	0	14.357	/	Pass
		1747.5	75	0	14.392	/	Pass
	16QAM	1717.5	27	0	5.665	/	Pass
		1732.5	27	0	5.396	/	Pass
		1747.5	27	48	5.450	/	Pass
20	QPSK	1720	100	0	19.029	/	Pass
		1732.5	100	0	19.015	/	Pass
		1745	100	0	19.030	/	Pass
	16QAM	1720	27	0	5.530	/	Pass
		1732.5	27	0	5.547	/	Pass
		1745	27	73	5.591	/	Pass

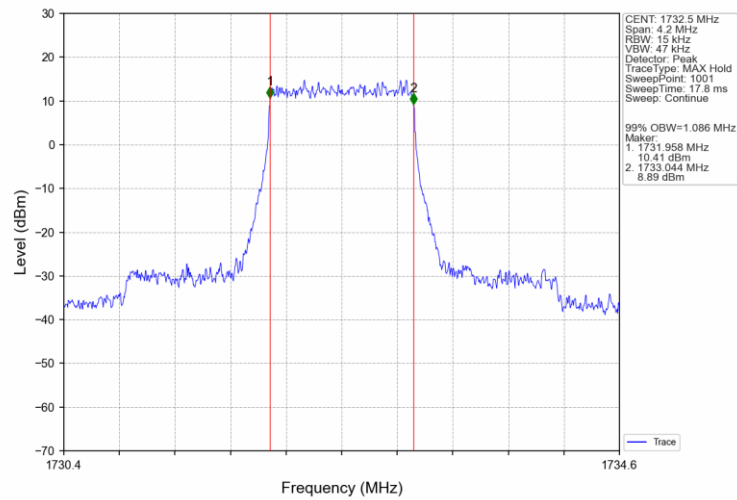
4.2 Test Graph

4.2.1 Band4_OBW

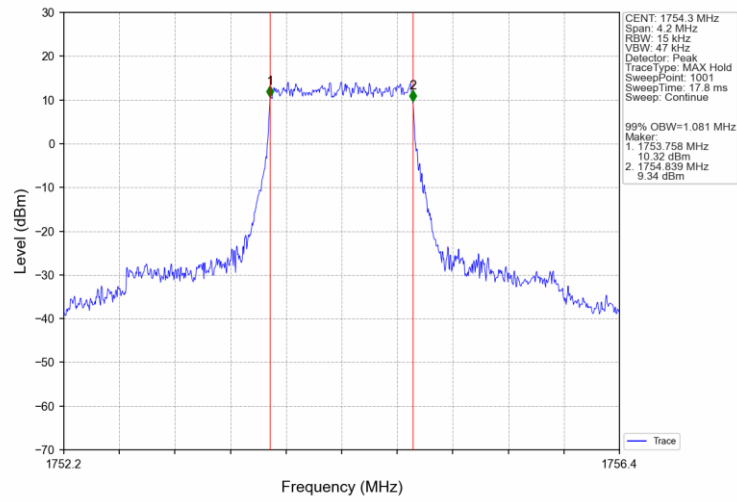
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



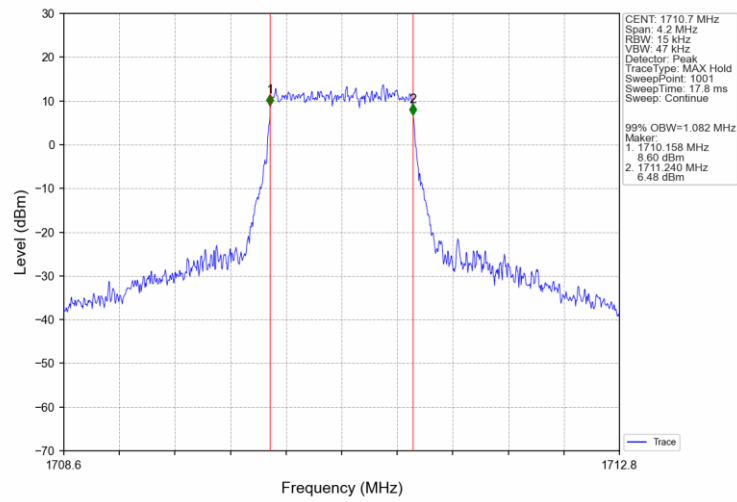
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



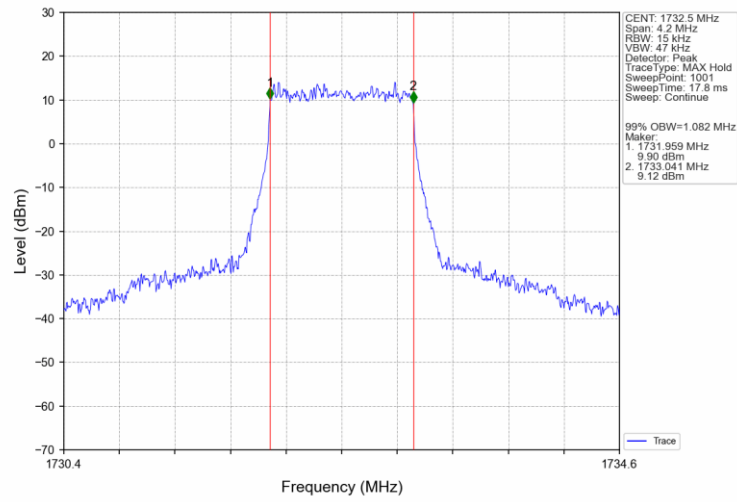
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



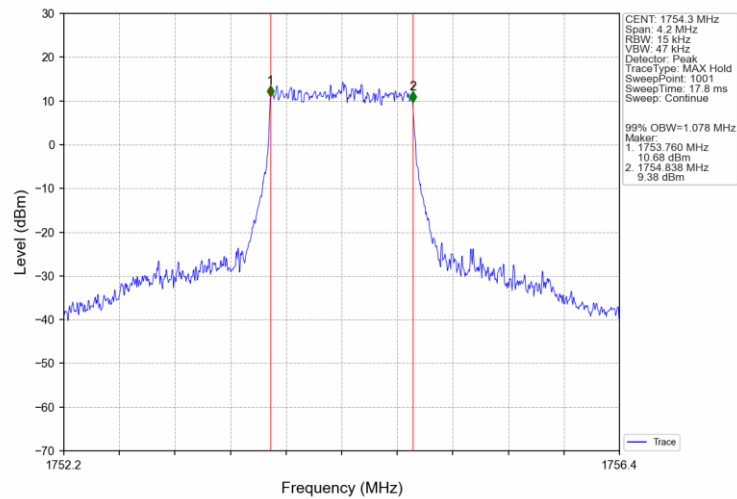
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



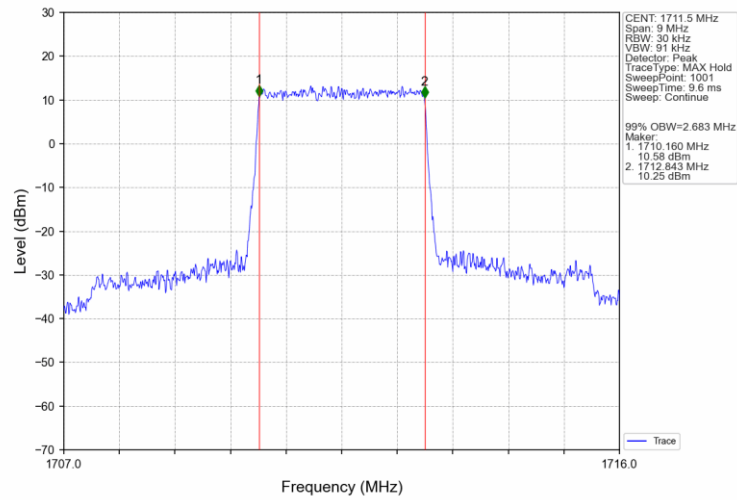
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



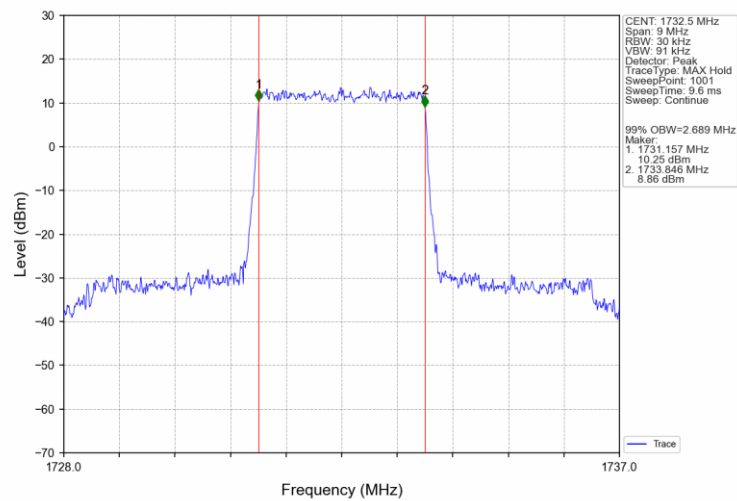
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



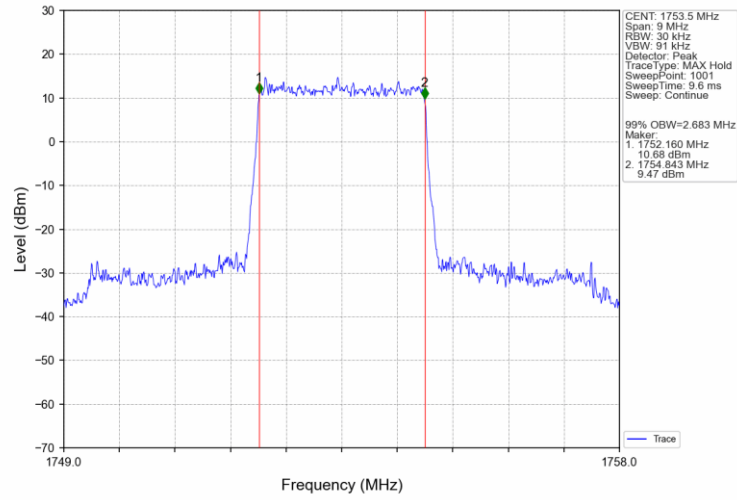
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



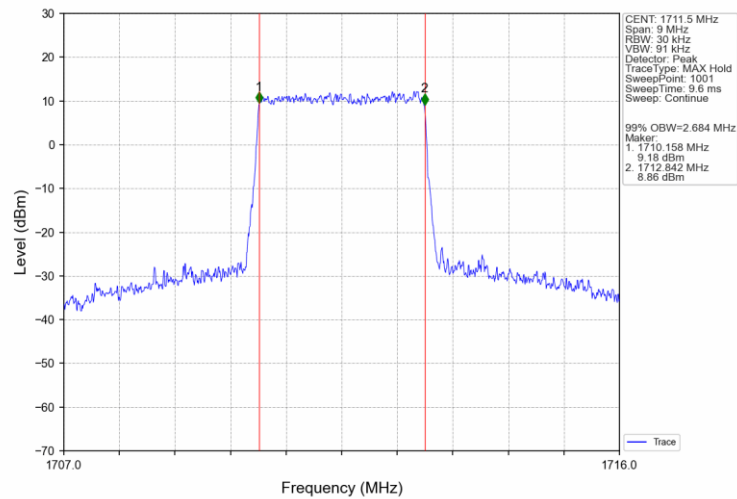
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



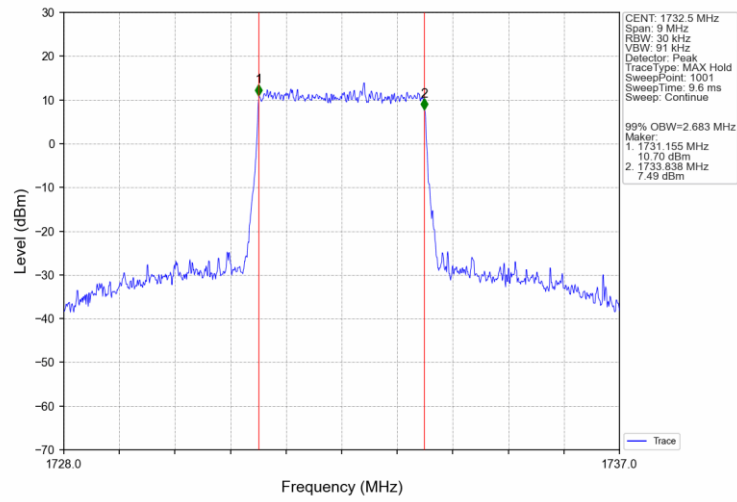
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



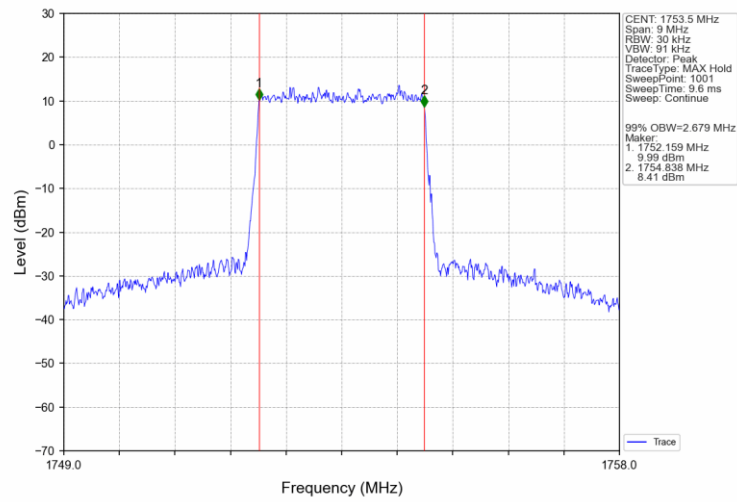
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



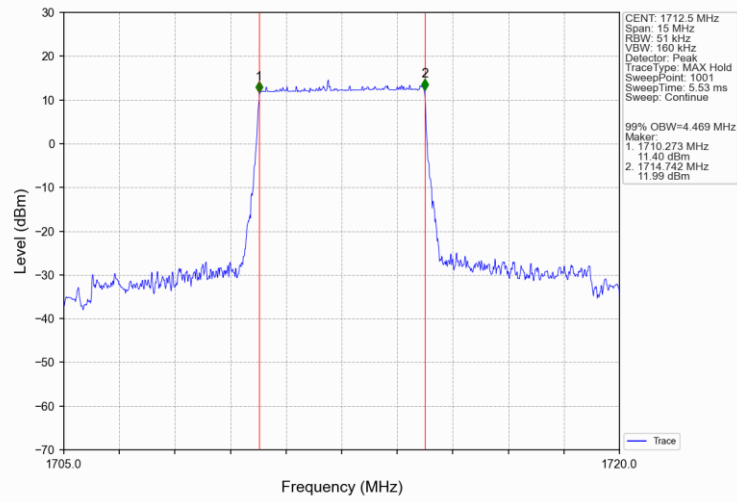
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



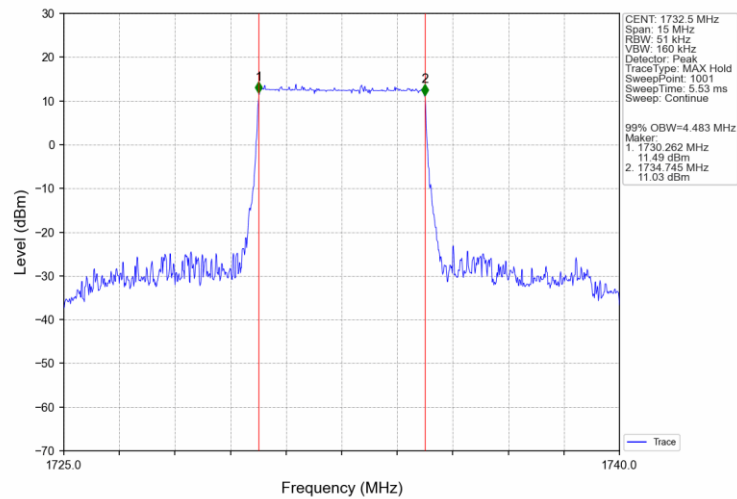
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



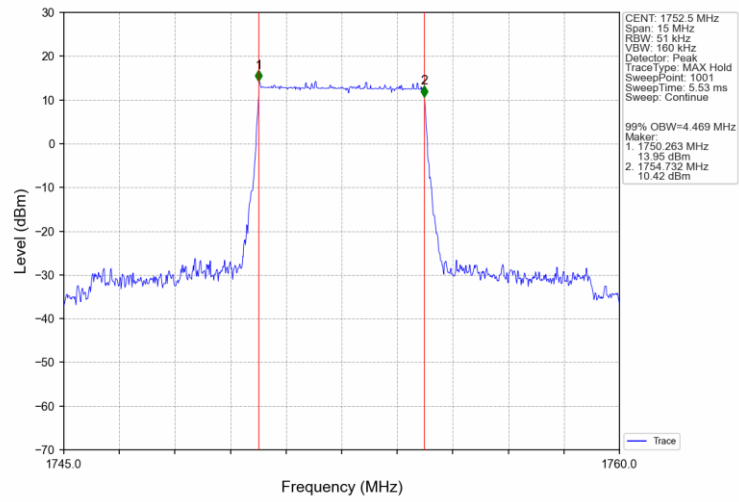
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



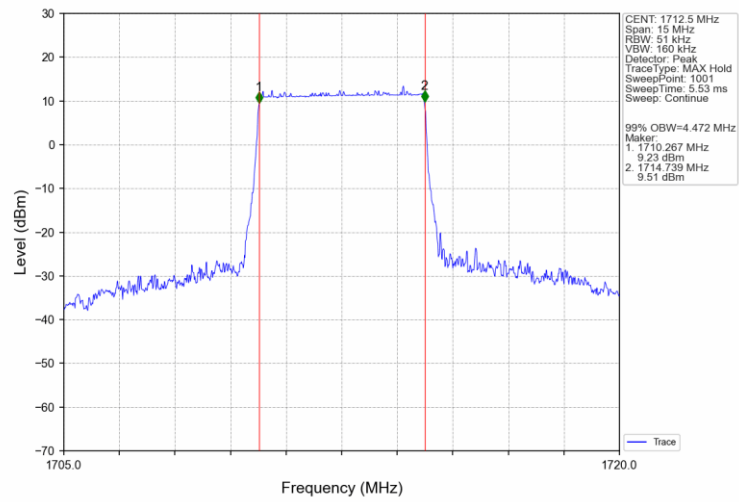
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



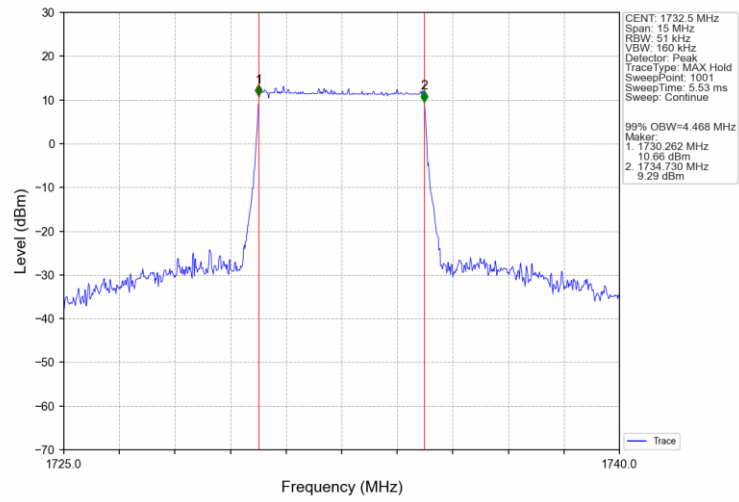
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



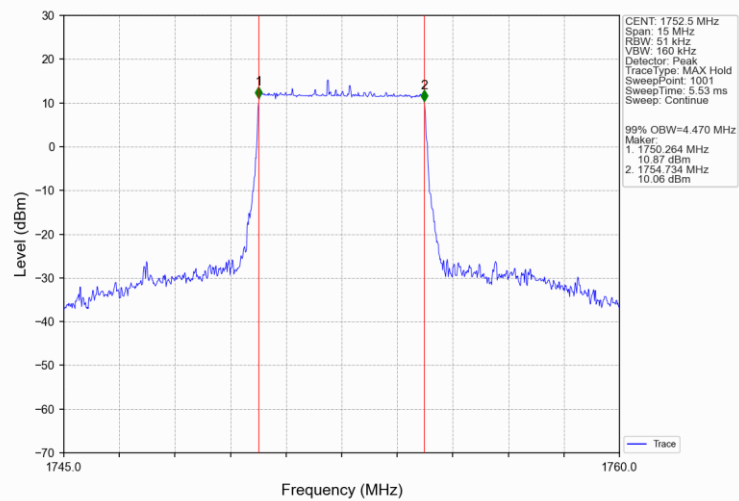
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



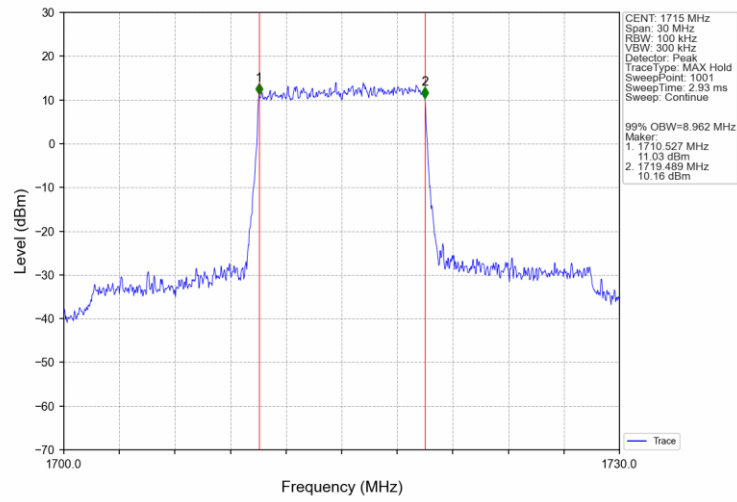
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



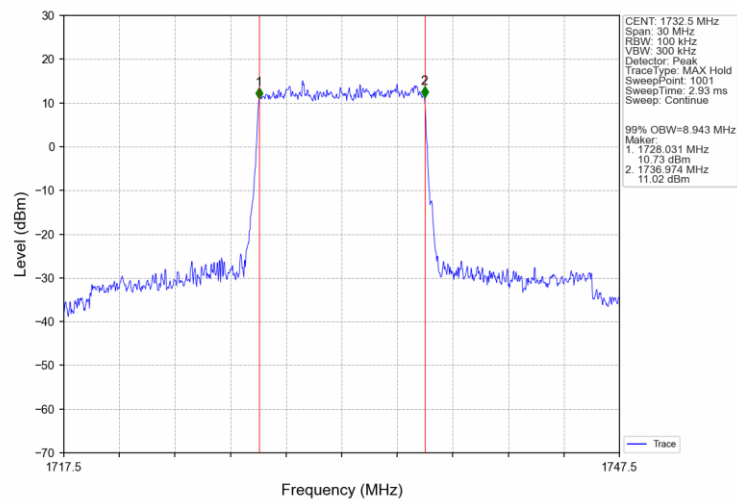
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



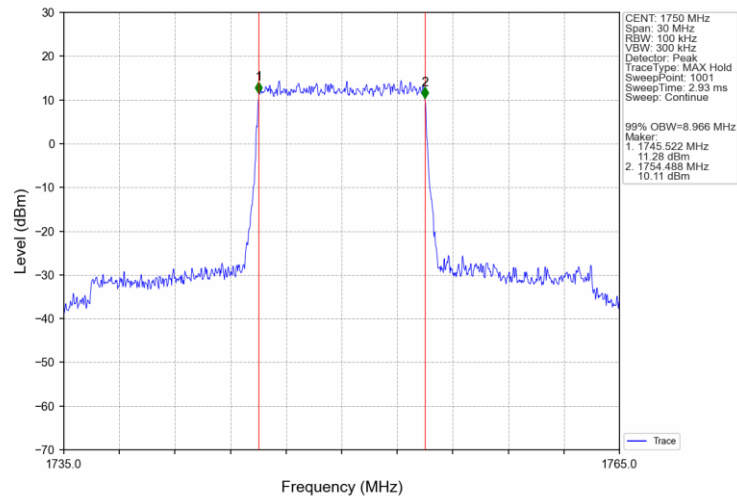
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



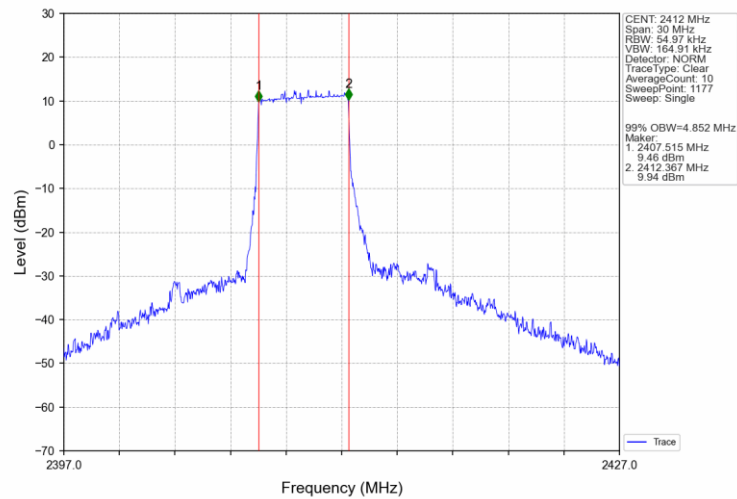
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



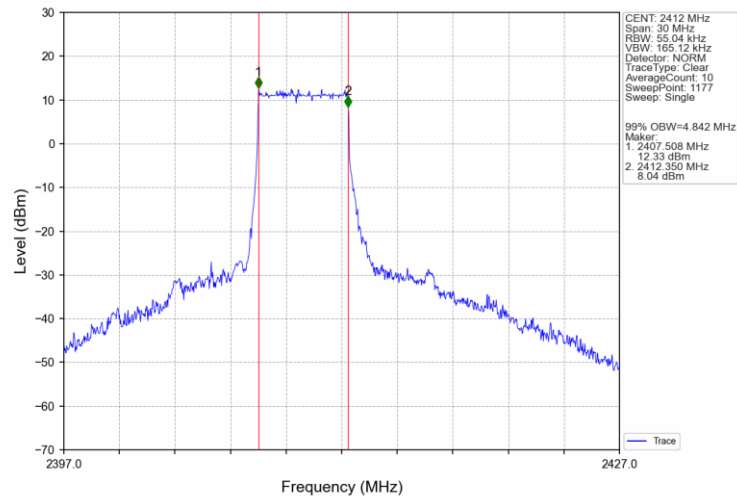
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



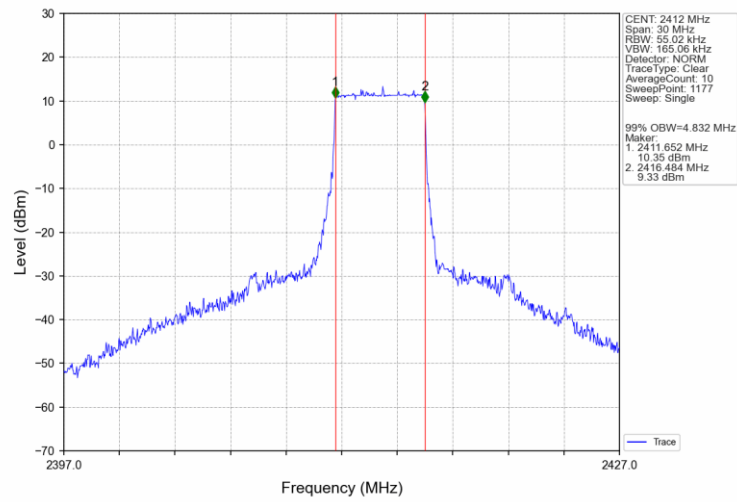
Band4_10MHz_16QAM_LCH_1715MHz_RB_27_0_NTNV



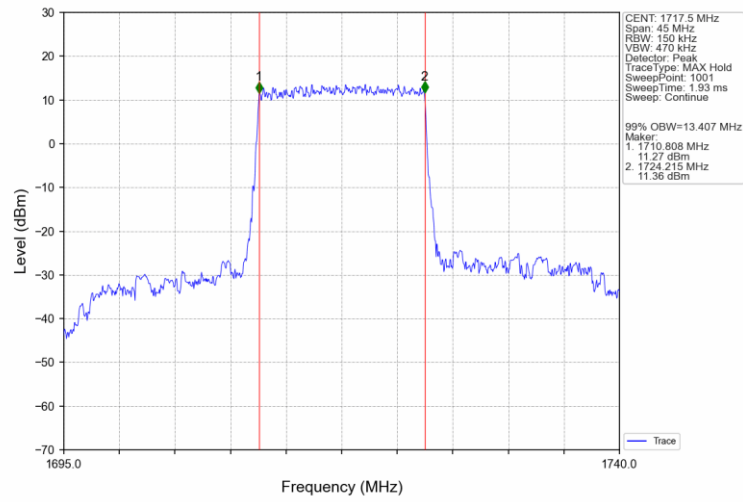
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



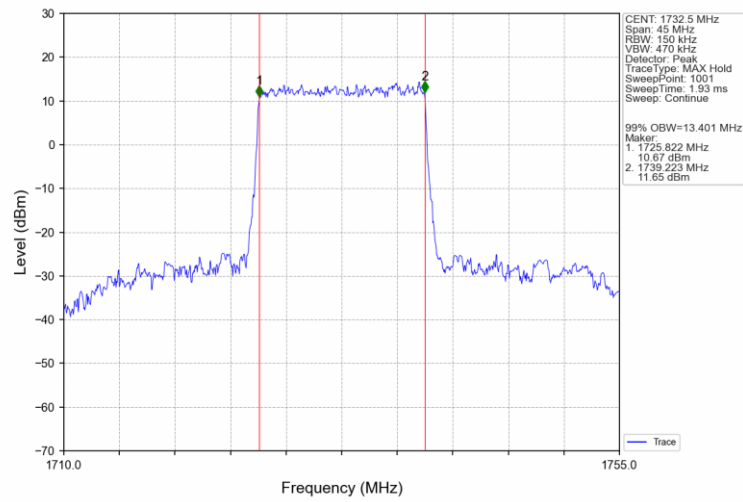
Band4_10MHz_16QAM_HCH_1750MHz_RB_27_23_NTNV



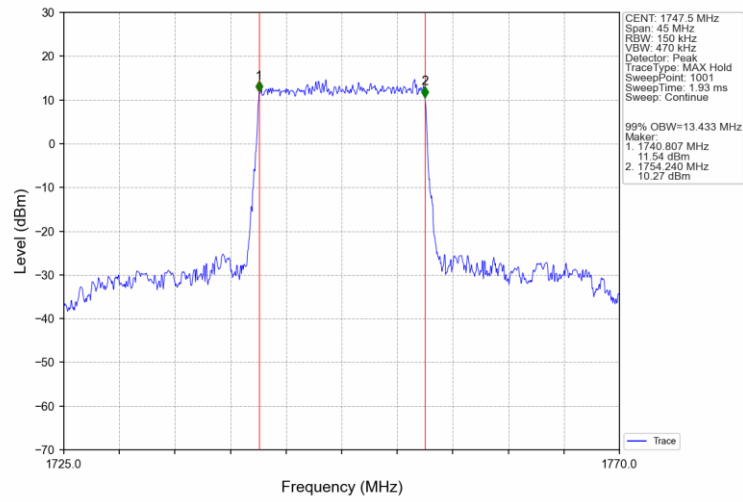
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



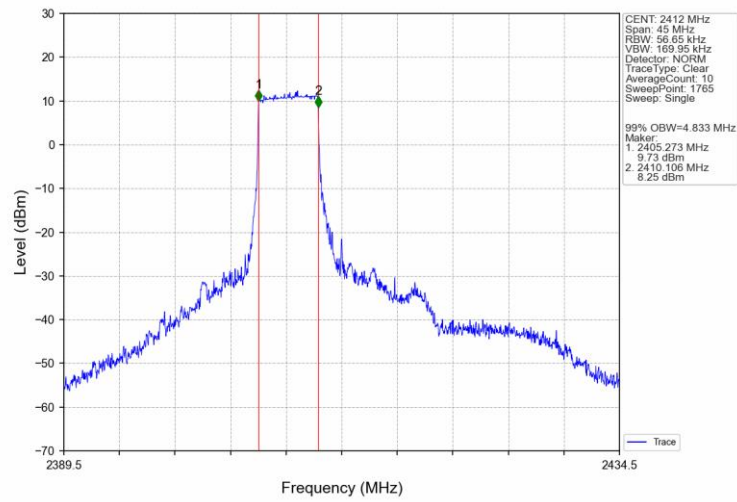
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



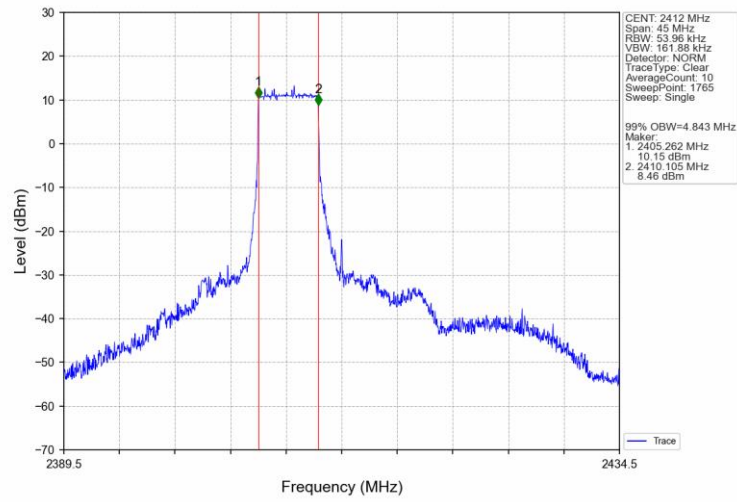
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



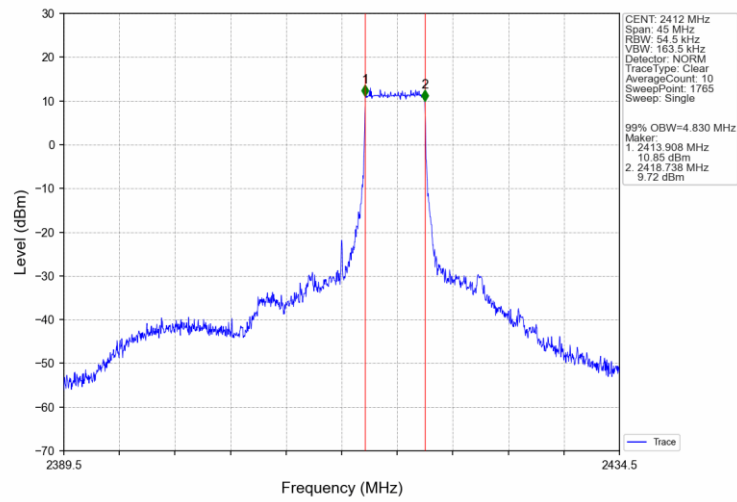
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_27_0_NTNV



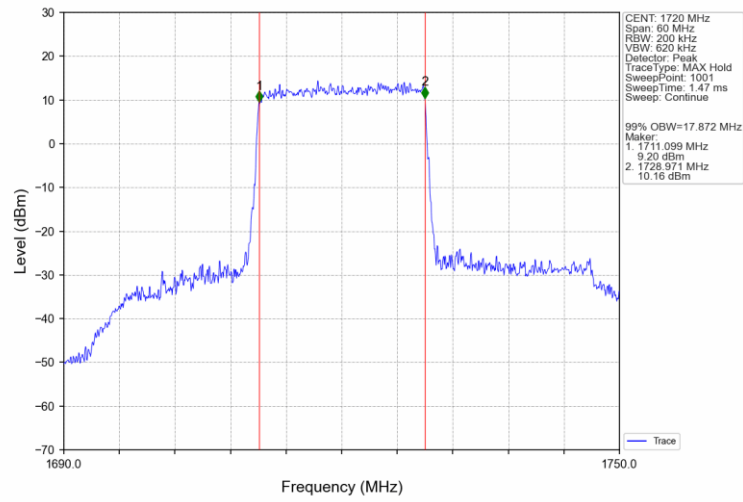
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



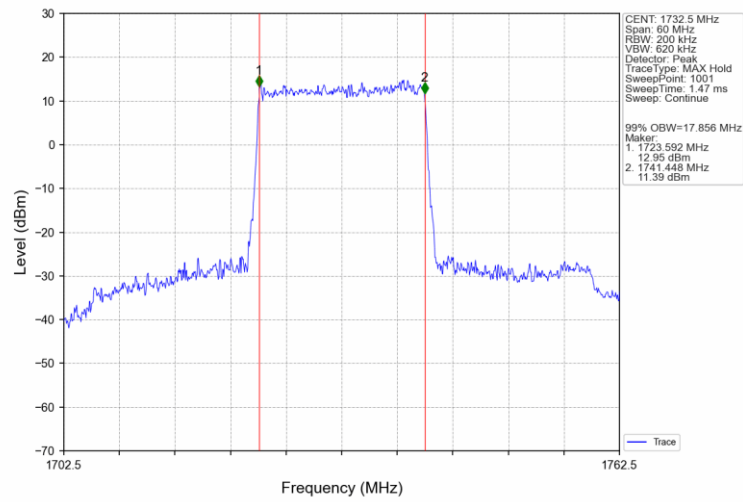
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_27_48_NTNV



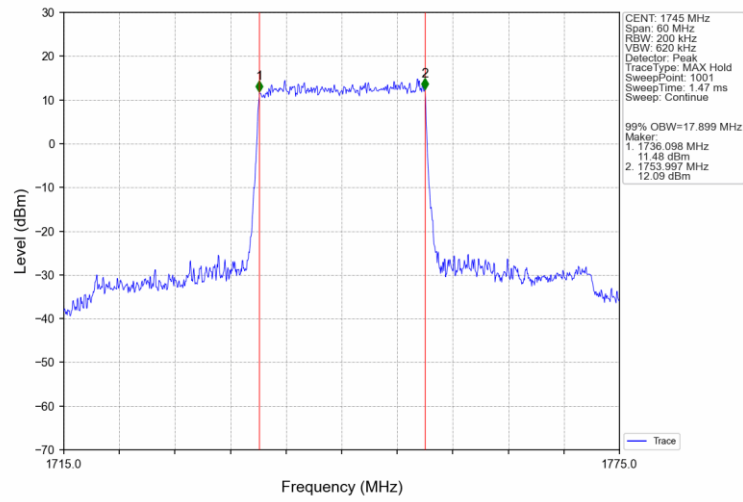
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



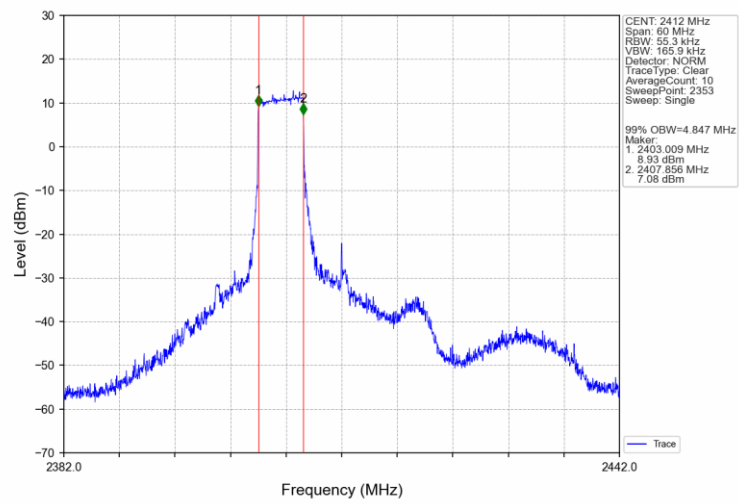
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



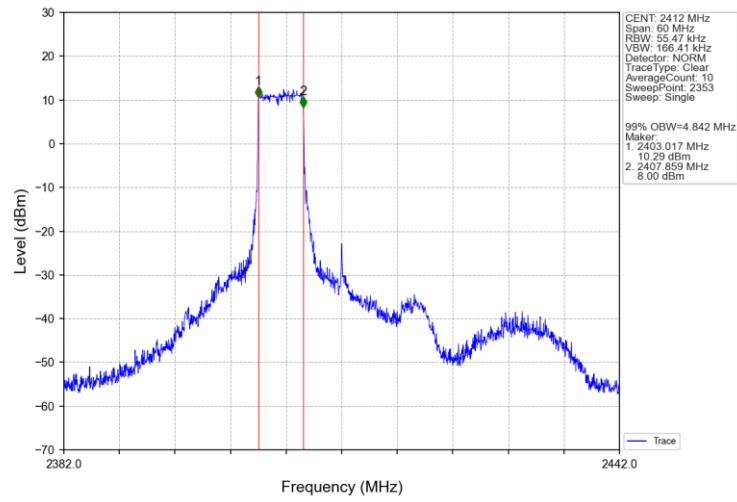
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



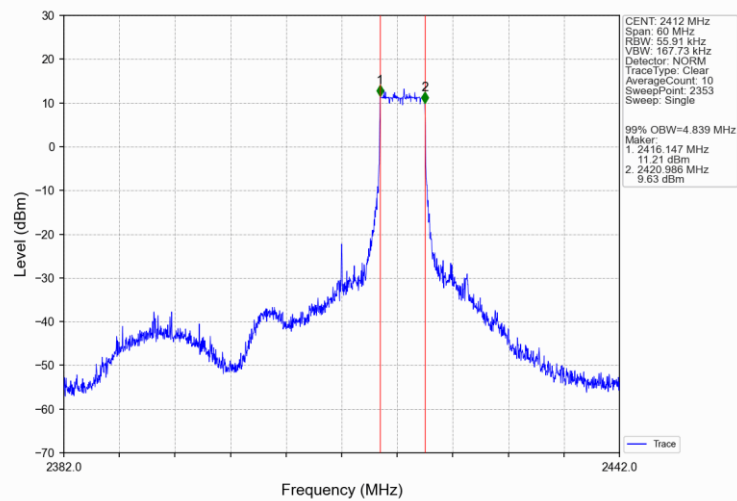
Band4_20MHz_16QAM_LCH_1720MHz_RB_27_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV

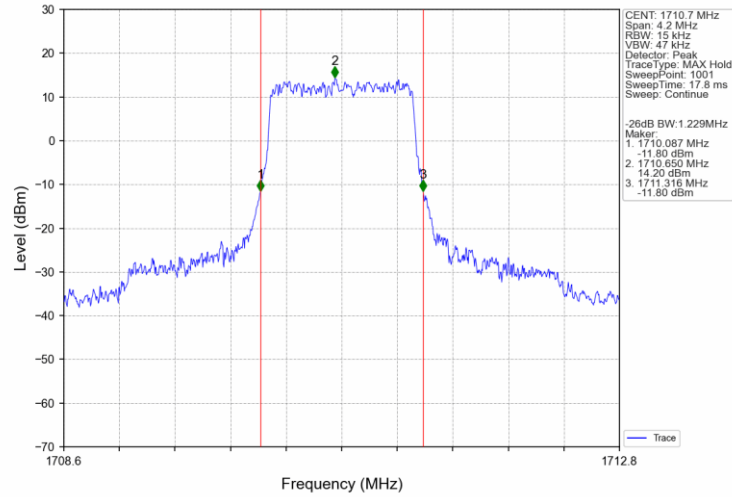


Band4_20MHz_16QAM_HCH_1745MHz_RB_27_73_NTNV

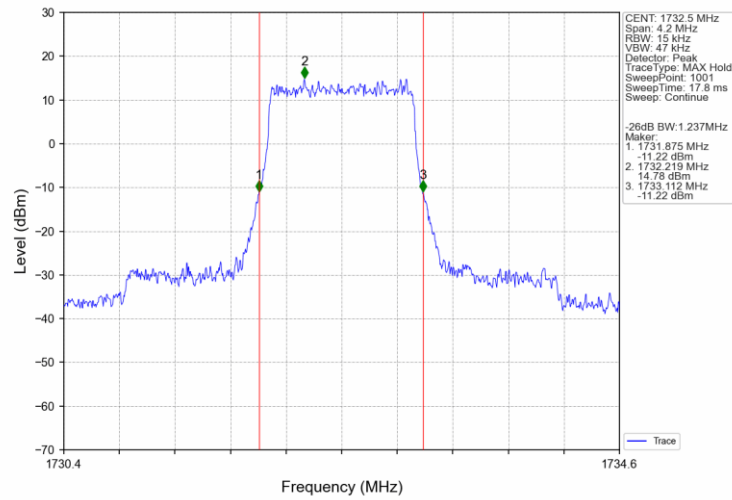


4.2.2 Band4_XDB

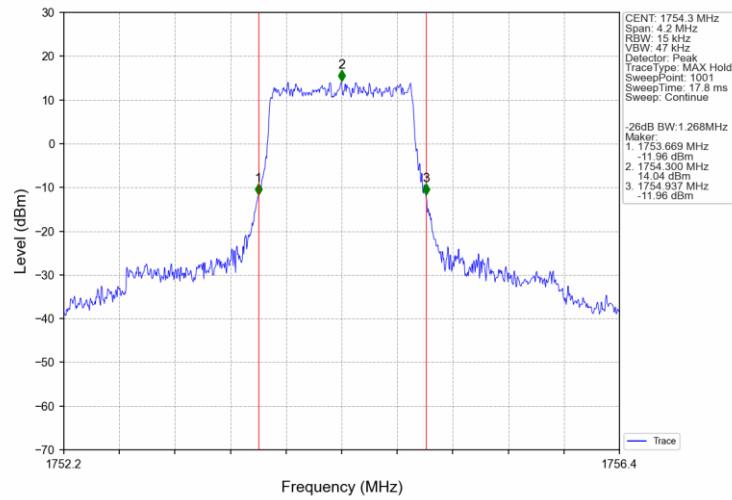
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



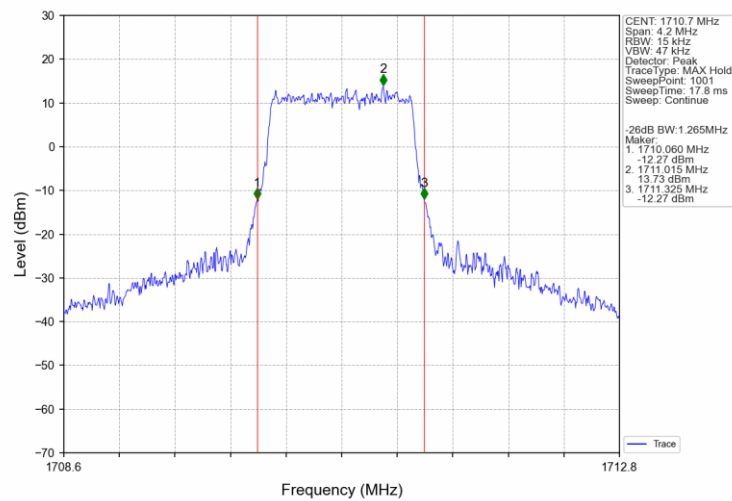
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



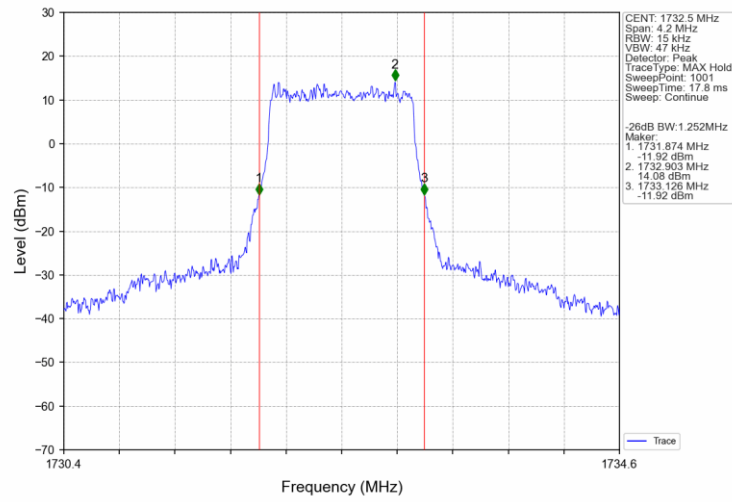
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



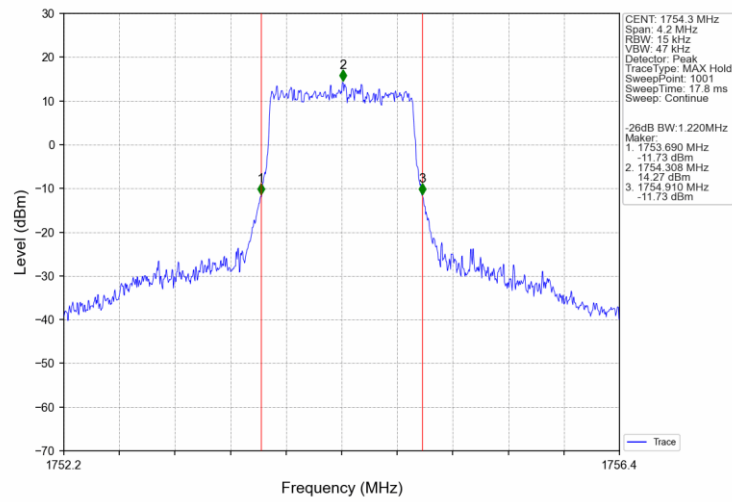
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



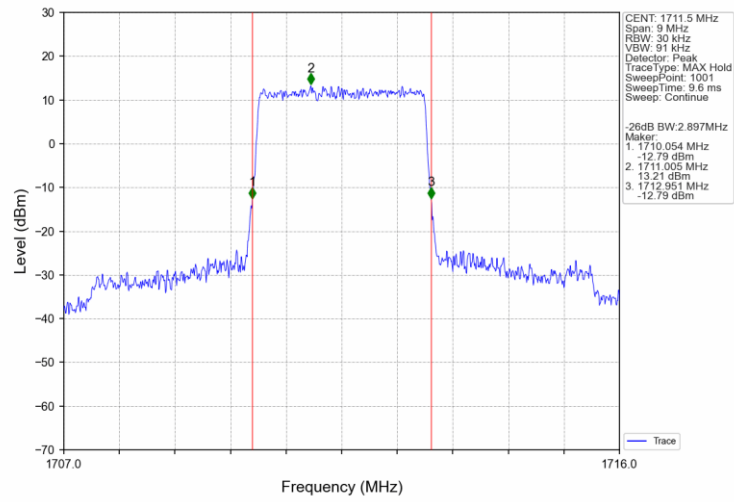
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



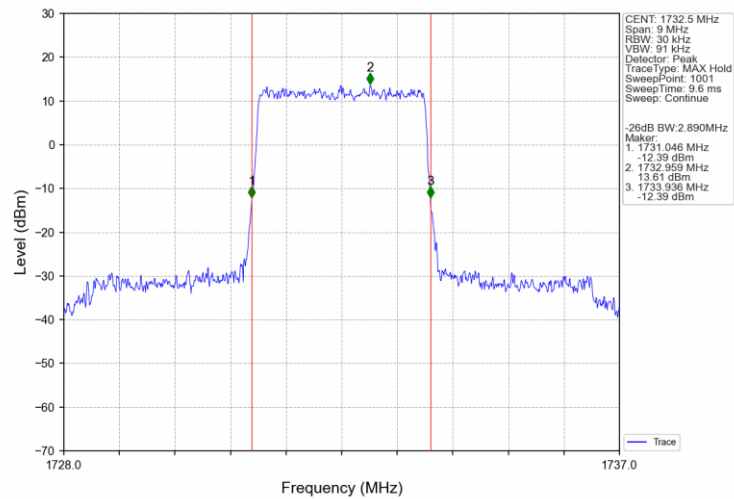
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



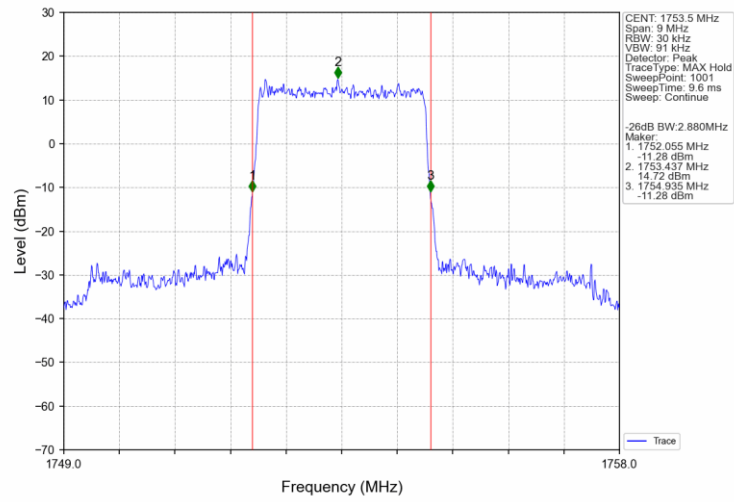
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



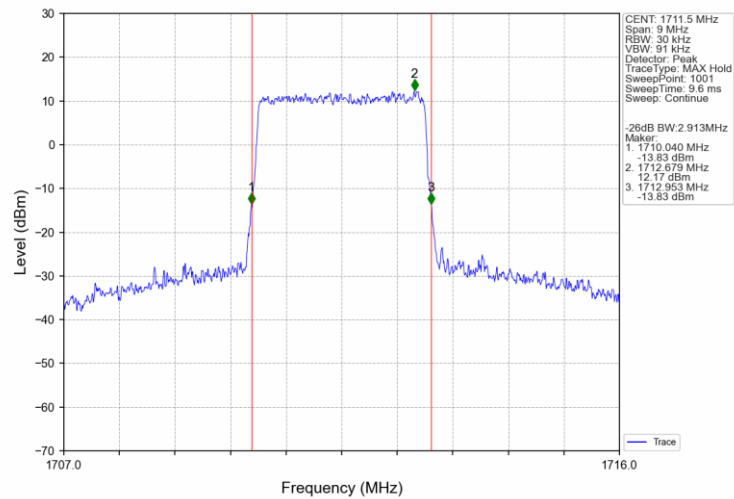
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



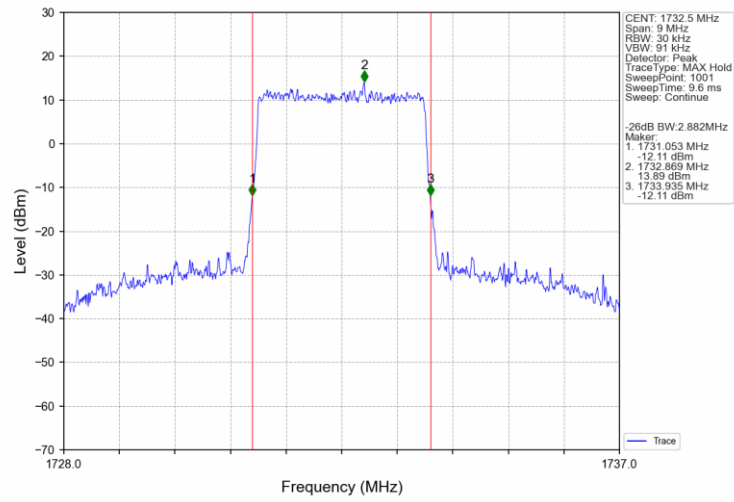
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



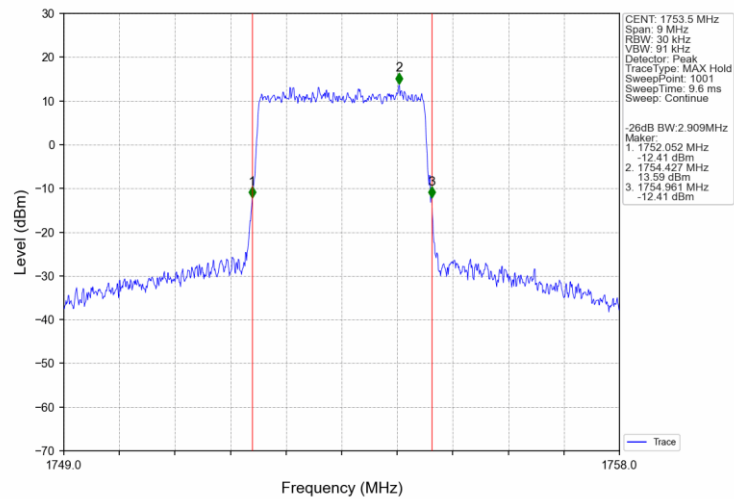
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



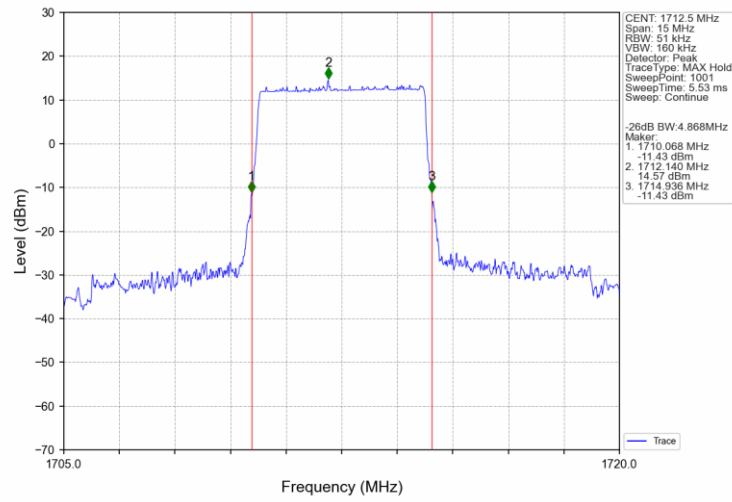
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



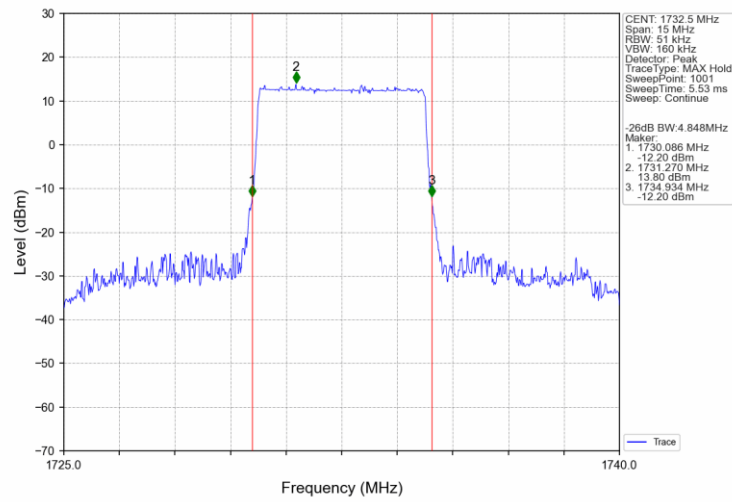
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



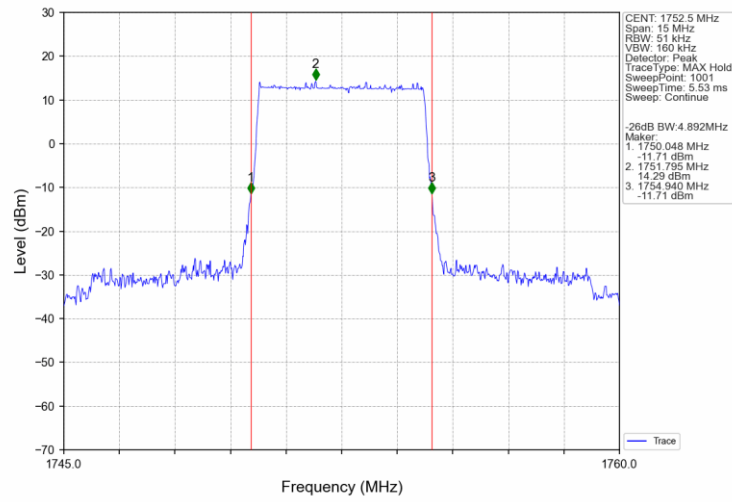
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



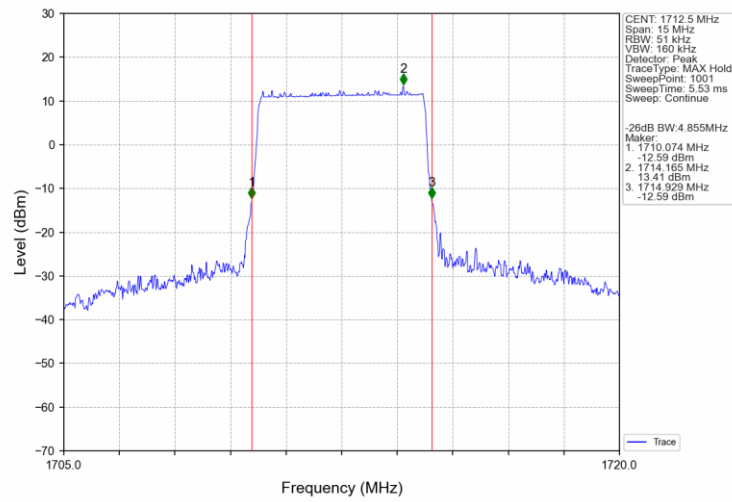
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



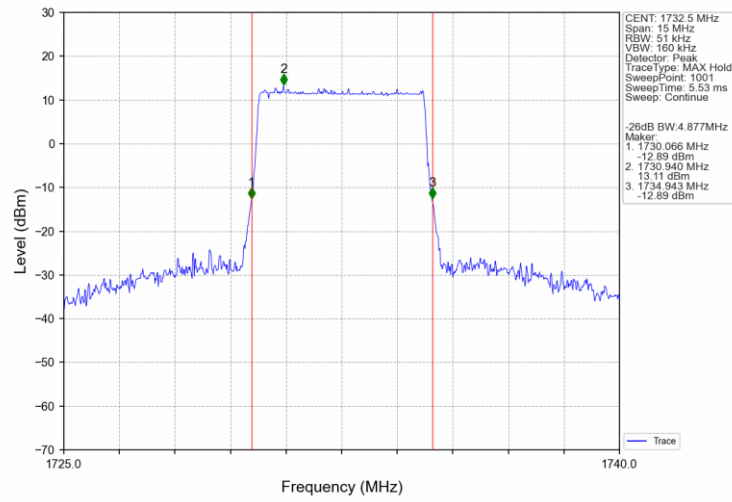
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



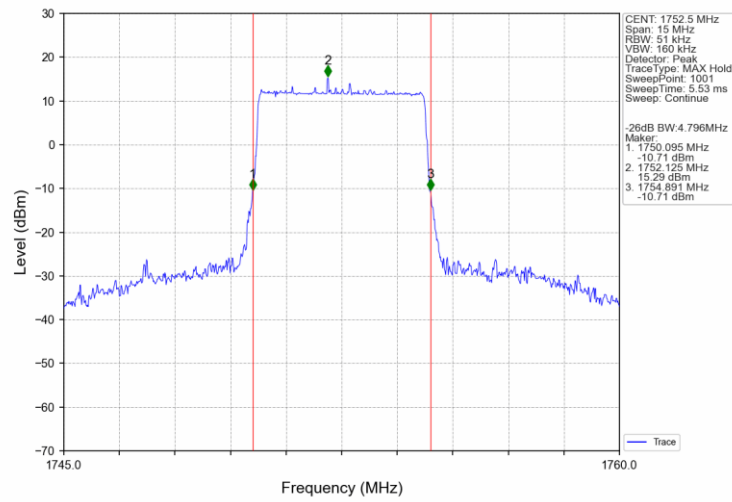
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



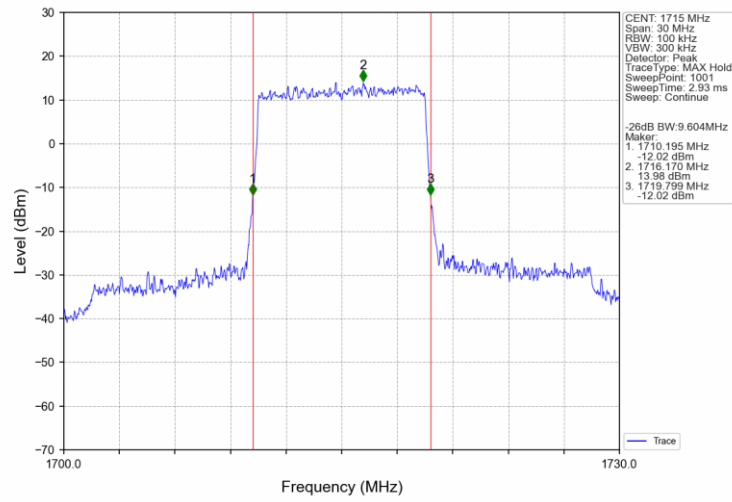
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



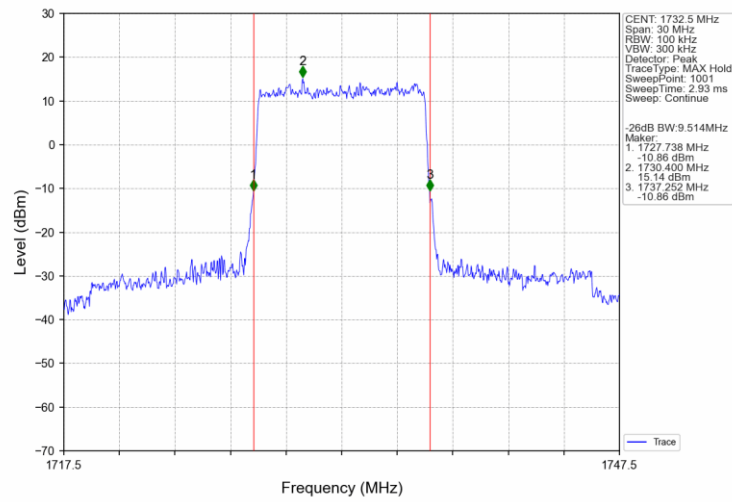
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



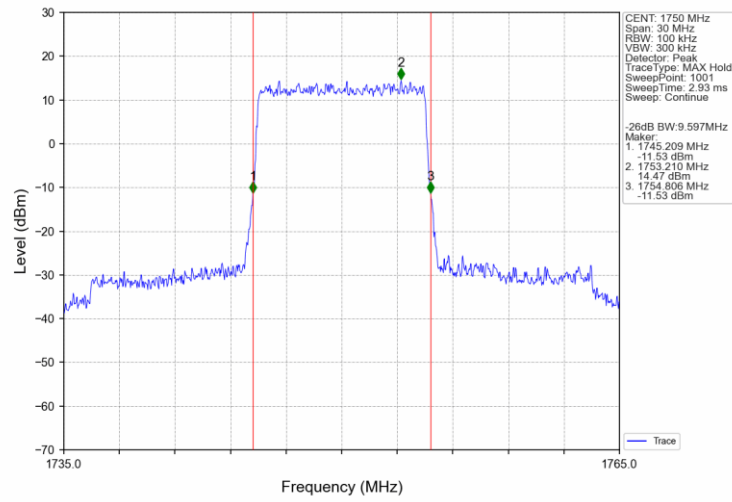
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



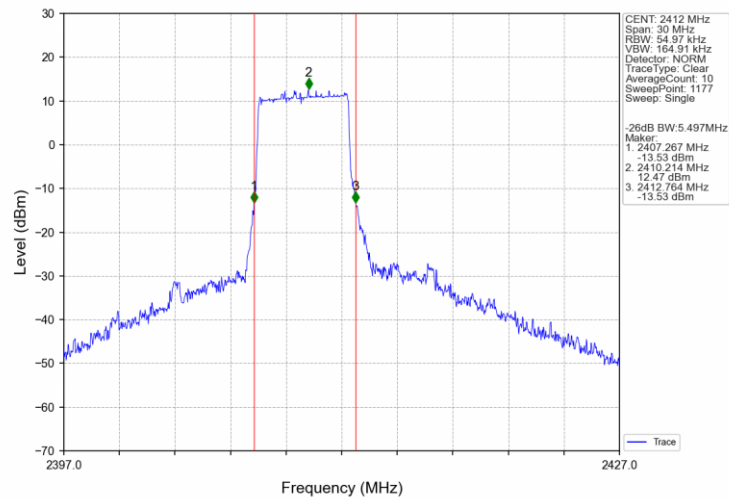
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



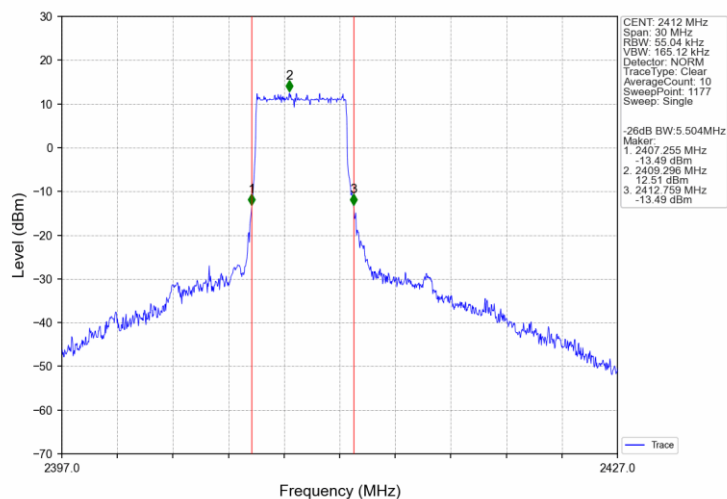
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



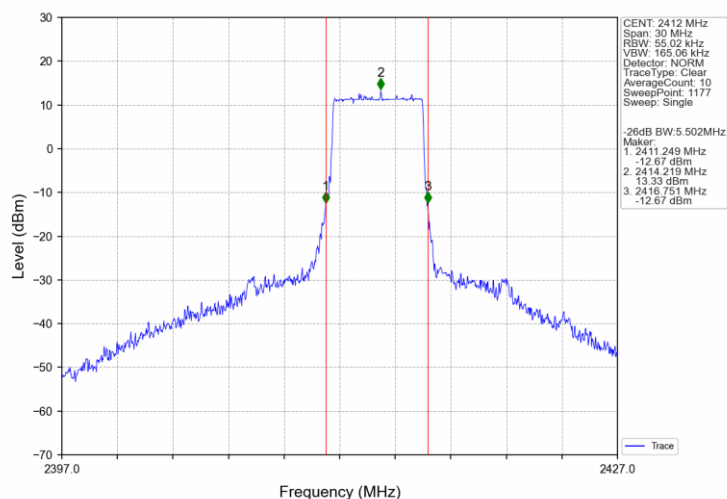
Band4_10MHz_16QAM_LCH_1715MHz_RB_27_0_NTNV



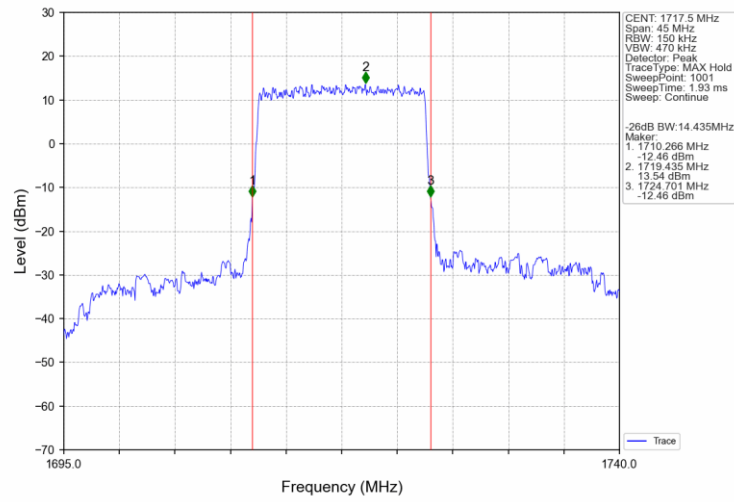
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



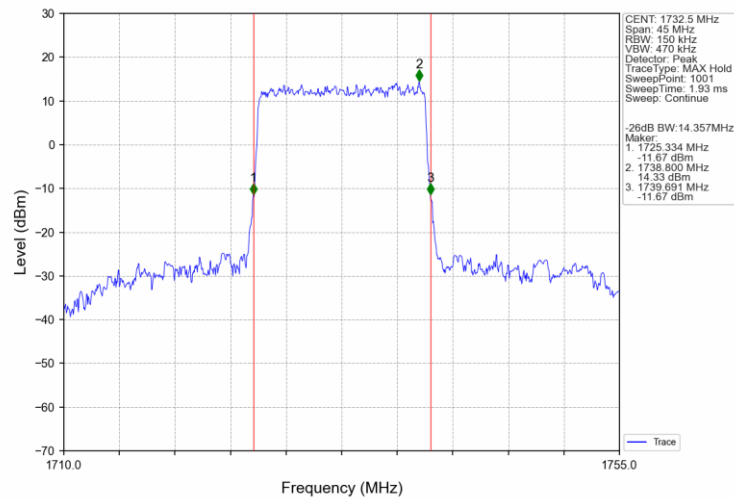
Band4_10MHz_16QAM_HCH_1750MHz_RB_27_23_NTNV



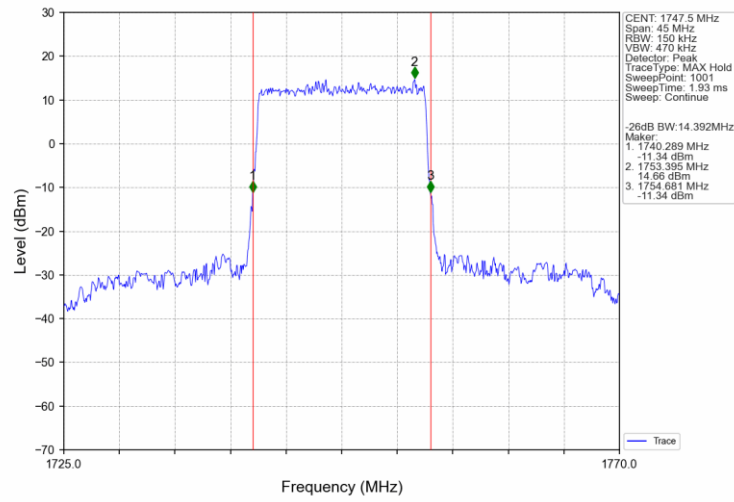
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



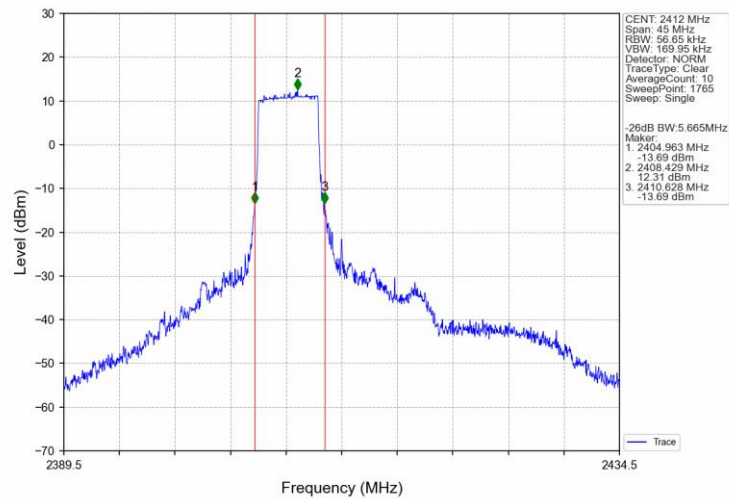
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



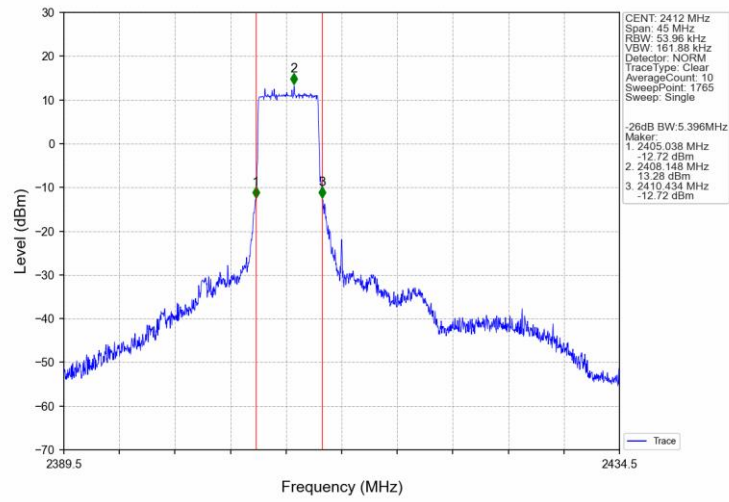
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



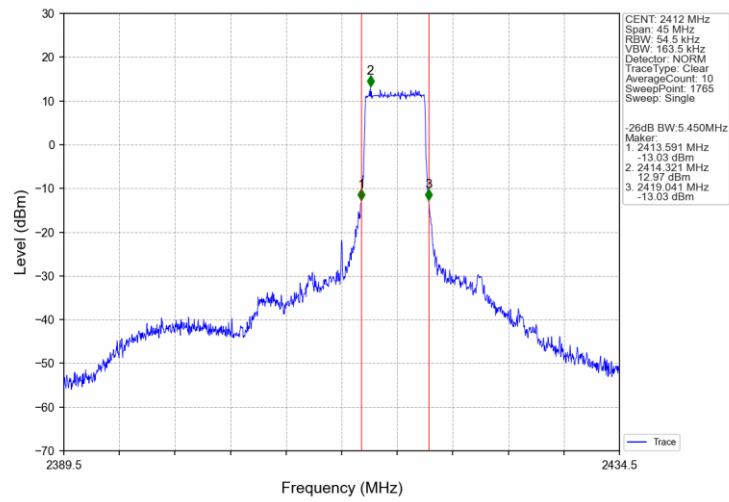
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_27_0_NTNV



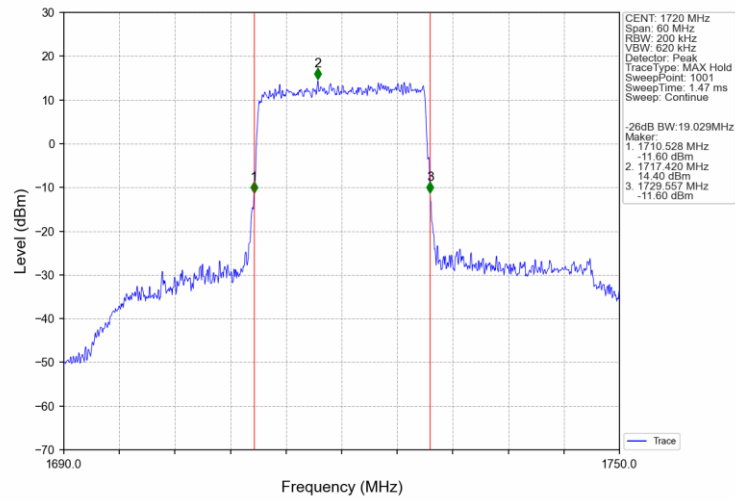
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



Band4_15MHz_16QAM_HCH_1747.5MHz_RB_27_48_NTNV



Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV

