

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	22.34	0.30	22.64	<=30	Pass
			2	22.36	0.30	22.66	<=30	Pass
			5	22.37	0.30	22.67	<=30	Pass
		3	0	22.45	0.30	22.75	<=30	Pass
			2	22.46	0.30	22.76	<=30	Pass
			3	22.47	0.30	22.77	<=30	Pass
		6	0	21.42	0.30	21.72	<=30	Pass
	1732.5	1	0	22.09	0.30	22.39	<=30	Pass
			2	22.11	0.30	22.41	<=30	Pass
			5	22.09	0.30	22.39	<=30	Pass
		3	0	22.58	0.30	22.88	<=30	Pass
			2	22.56	0.30	22.86	<=30	Pass
			3	22.55	0.30	22.85	<=30	Pass
		6	0	21.56	0.30	21.86	<=30	Pass
	1754.3	1	0	22.29	0.30	22.59	<=30	Pass
			2	21.94	0.30	22.24	<=30	Pass
			5	21.88	0.30	22.18	<=30	Pass
		3	0	22.34	0.30	22.64	<=30	Pass
			2	22.35	0.30	22.65	<=30	Pass
			3	22.35	0.30	22.65	<=30	Pass
		6	0	21.32	0.30	21.62	<=30	Pass
16QAM	1710.7	1	0	21.08	0.30	21.38	<=30	Pass
			2	21.12	0.30	21.42	<=30	Pass
			5	21.11	0.30	21.41	<=30	Pass
		3	0	21.52	0.30	21.82	<=30	Pass
			2	21.50	0.30	21.80	<=30	Pass
			3	21.53	0.30	21.83	<=30	Pass
		6	0	20.40	0.30	20.70	<=30	Pass
	1732.5	1	0	21.15	0.30	21.45	<=30	Pass
			2	21.22	0.30	21.52	<=30	Pass
			5	21.17	0.30	21.47	<=30	Pass
		3	0	21.54	0.30	21.84	<=30	Pass
			2	21.50	0.30	21.80	<=30	Pass
			3	21.49	0.30	21.79	<=30	Pass
		6	0	20.66	0.30	20.96	<=30	Pass
	1754.3	1	0	20.92	0.30	21.22	<=30	Pass
			2	20.98	0.30	21.28	<=30	Pass
			5	20.92	0.30	21.22	<=30	Pass
		3	0	21.34	0.30	21.64	<=30	Pass
			2	21.31	0.30	21.61	<=30	Pass
			3	21.31	0.30	21.61	<=30	Pass
		6	0	20.41	0.30	20.71	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	22.42	0.30	22.72	<=30	Pass
			7	22.39	0.30	22.69	<=30	Pass
			14	22.34	0.30	22.64	<=30	Pass
		8	0	21.37	0.30	21.67	<=30	Pass
			4	21.39	0.30	21.69	<=30	Pass
			7	21.35	0.30	21.65	<=30	Pass
		15	0	21.36	0.30	21.66	<=30	Pass
	1732.5	1	0	22.51	0.30	22.81	<=30	Pass
			7	22.55	0.30	22.85	<=30	Pass
			14	22.56	0.30	22.86	<=30	Pass
		8	0	21.53	0.30	21.83	<=30	Pass
			4	21.46	0.30	21.76	<=30	Pass
			7	21.48	0.30	21.78	<=30	Pass
		15	0	21.46	0.30	21.76	<=30	Pass
	1753.5	1	0	22.25	0.30	22.55	<=30	Pass
			7	22.22	0.30	22.52	<=30	Pass
			14	22.18	0.30	22.48	<=30	Pass
		8	0	21.26	0.30	21.56	<=30	Pass
			4	21.24	0.30	21.54	<=30	Pass
			7	21.25	0.30	21.55	<=30	Pass
		15	0	21.23	0.30	21.53	<=30	Pass
16QAM	1711.5	1	0	21.56	0.30	21.86	<=30	Pass
			7	21.57	0.30	21.87	<=30	Pass
			14	21.52	0.30	21.82	<=30	Pass
		8	0	20.37	0.30	20.67	<=30	Pass
			4	20.36	0.30	20.66	<=30	Pass
			7	20.39	0.30	20.69	<=30	Pass
		15	0	20.40	0.30	20.70	<=30	Pass
	1732.5	1	0	21.61	0.30	21.91	<=30	Pass
			7	21.61	0.30	21.91	<=30	Pass
			14	21.57	0.30	21.87	<=30	Pass
		8	0	20.69	0.30	20.99	<=30	Pass
			4	20.63	0.30	20.93	<=30	Pass
			7	20.64	0.30	20.94	<=30	Pass
		15	0	20.50	0.30	20.80	<=30	Pass
	1753.5	1	0	21.44	0.30	21.74	<=30	Pass
			7	21.44	0.30	21.74	<=30	Pass
			14	21.43	0.30	21.73	<=30	Pass
		8	0	20.45	0.30	20.75	<=30	Pass
			4	20.43	0.30	20.73	<=30	Pass
			7	20.43	0.30	20.73	<=30	Pass
		15	0	20.28	0.30	20.58	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

Band: 4 / Bandwidth: 5MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1712.5	1	0	22.49	0.30	22.79	<=30	Pass		
			13	22.45	0.30	22.75	<=30	Pass		
			24	22.52	0.30	22.82	<=30	Pass		
		12	0	21.41	0.30	21.71	<=30	Pass		
			6	21.43	0.30	21.73	<=30	Pass		
			13	21.40	0.30	21.70	<=30	Pass		
		25	0	21.42	0.30	21.72	<=30	Pass		
		1732.5	1	0	22.10	0.30	22.40	<=30	Pass	
				13	22.03	0.30	22.33	<=30	Pass	
	24			22.10	0.30	22.40	<=30	Pass		
	12		0	21.61	0.30	21.91	<=30	Pass		
			6	21.54	0.30	21.84	<=30	Pass		
			13	21.51	0.30	21.81	<=30	Pass		
	25	0	21.55	0.30	21.85	<=30	Pass			
	1752.5	1	0	21.93	0.30	22.23	<=30	Pass		
			13	21.88	0.30	22.18	<=30	Pass		
			24	21.86	0.30	22.16	<=30	Pass		
		12	0	21.28	0.30	21.58	<=30	Pass		
			6	21.30	0.30	21.60	<=30	Pass		
			13	21.28	0.30	21.58	<=30	Pass		
		25	0	21.33	0.30	21.63	<=30	Pass		
		16QAM	1712.5	1	0	21.47	0.30	21.77	<=30	Pass
					13	21.38	0.30	21.68	<=30	Pass
	24				21.35	0.30	21.65	<=30	Pass	
12	0			20.34	0.30	20.64	<=30	Pass		
	6			20.36	0.30	20.66	<=30	Pass		
	13			20.35	0.30	20.65	<=30	Pass		
25	0			20.45	0.30	20.75	<=30	Pass		
1732.5	1		0	21.27	0.30	21.57	<=30	Pass		
			13	21.26	0.30	21.56	<=30	Pass		
			24	21.25	0.30	21.55	<=30	Pass		
	12		0	20.57	0.30	20.87	<=30	Pass		
			6	20.53	0.30	20.83	<=30	Pass		
			13	20.47	0.30	20.77	<=30	Pass		
25	0		20.56	0.30	20.86	<=30	Pass			
1752.5	1		0	21.08	0.30	21.38	<=30	Pass		
		13	21.02	0.30	21.32	<=30	Pass			
		24	21.06	0.30	21.36	<=30	Pass			
	12	0	20.32	0.30	20.62	<=30	Pass			
		6	20.34	0.30	20.64	<=30	Pass			
		13	20.34	0.30	20.64	<=30	Pass			
	25	0	20.32	0.30	20.62	<=30	Pass			
Note1: EIRP=Conducted Power+Antenna Gain										

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	22.04	0.30	22.34	<=30	Pass
			25	21.90	0.30	22.20	<=30	Pass
			49	21.93	0.30	22.23	<=30	Pass
		25	0	21.40	0.30	21.70	<=30	Pass
			13	21.48	0.30	21.78	<=30	Pass
			25	21.58	0.30	21.88	<=30	Pass
		50	0	21.48	0.30	21.78	<=30	Pass
			0	22.09	0.30	22.39	<=30	Pass
			25	22.14	0.30	22.44	<=30	Pass
	1732.5	1	49	22.11	0.30	22.41	<=30	Pass
			0	21.58	0.30	21.88	<=30	Pass
			13	21.55	0.30	21.85	<=30	Pass
		25	25	21.48	0.30	21.78	<=30	Pass
			0	21.53	0.30	21.83	<=30	Pass
			0	21.84	0.30	22.14	<=30	Pass
		50	25	21.82	0.30	22.12	<=30	Pass
			49	21.76	0.30	22.06	<=30	Pass
			0	21.29	0.30	21.59	<=30	Pass
	1750	25	13	21.28	0.30	21.58	<=30	Pass
			25	21.33	0.30	21.63	<=30	Pass
			0	21.35	0.30	21.65	<=30	Pass
16QAM	1715	1	0	21.12	0.30	21.42	<=30	Pass
			25	21.10	0.30	21.40	<=30	Pass
			49	21.18	0.30	21.48	<=30	Pass
		25	0	20.38	0.30	20.68	<=30	Pass
			13	20.46	0.30	20.76	<=30	Pass
			25	20.58	0.30	20.88	<=30	Pass
		50	0	20.45	0.30	20.75	<=30	Pass
			0	21.13	0.30	21.43	<=30	Pass
			25	21.18	0.30	21.48	<=30	Pass
	1732.5	1	49	21.15	0.30	21.45	<=30	Pass
			0	20.63	0.30	20.93	<=30	Pass
			13	20.61	0.30	20.91	<=30	Pass
		25	25	20.53	0.30	20.83	<=30	Pass
			0	20.53	0.30	20.83	<=30	Pass
			0	21.05	0.30	21.35	<=30	Pass
		50	25	20.99	0.30	21.29	<=30	Pass
			49	20.98	0.30	21.28	<=30	Pass
			0	20.33	0.30	20.63	<=30	Pass
	1750	25	13	20.33	0.30	20.63	<=30	Pass
			25	20.39	0.30	20.69	<=30	Pass
			0	20.33	0.30	20.63	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	21.79	0.30	22.09	<=30	Pass
			38	21.89	0.30	22.19	<=30	Pass
			74	21.86	0.30	22.16	<=30	Pass
		36	0	21.32	0.30	21.62	<=30	Pass
			18	21.41	0.30	21.71	<=30	Pass
			39	21.53	0.30	21.83	<=30	Pass
		75	0	21.48	0.30	21.78	<=30	Pass
	1732.5	1	0	22.00	0.30	22.30	<=30	Pass
			38	22.13	0.30	22.43	<=30	Pass
			74	21.98	0.30	22.28	<=30	Pass
		36	0	21.50	0.30	21.80	<=30	Pass
			18	21.51	0.30	21.81	<=30	Pass
			39	21.45	0.30	21.75	<=30	Pass
		75	0	21.48	0.30	21.78	<=30	Pass
	1747.5	1	0	21.84	0.30	22.14	<=30	Pass
			38	21.90	0.30	22.20	<=30	Pass
			74	21.67	0.30	21.97	<=30	Pass
		36	0	21.34	0.30	21.64	<=30	Pass
			18	21.31	0.30	21.61	<=30	Pass
			39	21.33	0.30	21.63	<=30	Pass
		75	0	21.34	0.30	21.64	<=30	Pass
16QAM	1717.5	1	0	21.36	0.30	21.66	<=30	Pass
			38	21.40	0.30	21.70	<=30	Pass
			74	21.46	0.30	21.76	<=30	Pass
		36	0	20.32	0.30	20.62	<=30	Pass
			18	20.38	0.30	20.68	<=30	Pass
			39	20.51	0.30	20.81	<=30	Pass
		75	0	20.45	0.30	20.75	<=30	Pass
	1732.5	1	0	21.05	0.30	21.35	<=30	Pass
			38	21.14	0.30	21.44	<=30	Pass
			74	21.05	0.30	21.35	<=30	Pass
		36	0	20.50	0.30	20.80	<=30	Pass
			18	20.51	0.30	20.81	<=30	Pass
			39	20.48	0.30	20.78	<=30	Pass
		75	0	20.49	0.30	20.79	<=30	Pass
	1747.5	1	0	21.05	0.30	21.35	<=30	Pass
			38	21.09	0.30	21.39	<=30	Pass
			74	20.88	0.30	21.18	<=30	Pass
		36	0	20.36	0.30	20.66	<=30	Pass
			18	20.32	0.30	20.62	<=30	Pass
			39	20.30	0.30	20.60	<=30	Pass
		75	0	20.35	0.30	20.65	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	21.87	0.30	22.17	<=30	Pass
			50	22.01	0.30	22.31	<=30	Pass
			99	22.00	0.30	22.30	<=30	Pass
		50	0	21.26	0.30	21.56	<=30	Pass
			25	21.52	0.30	21.82	<=30	Pass
			50	21.66	0.30	21.96	<=30	Pass
		100	0	21.51	0.30	21.81	<=30	Pass
	1732.5	1	0	21.88	0.30	22.18	<=30	Pass
			50	22.03	0.30	22.33	<=30	Pass
			99	21.81	0.30	22.11	<=30	Pass
		50	0	21.49	0.30	21.79	<=30	Pass
			25	21.54	0.30	21.84	<=30	Pass
			50	21.44	0.30	21.74	<=30	Pass
		100	0	21.46	0.30	21.76	<=30	Pass
	1745	1	0	21.95	0.30	22.25	<=30	Pass
			50	21.97	0.30	22.27	<=30	Pass
			99	21.73	0.30	22.03	<=30	Pass
		50	0	21.45	0.30	21.75	<=30	Pass
			25	21.42	0.30	21.72	<=30	Pass
			50	21.41	0.30	21.71	<=30	Pass
		100	0	21.44	0.30	21.74	<=30	Pass
16QAM	1720	1	0	21.12	0.30	21.42	<=30	Pass
			50	21.20	0.30	21.50	<=30	Pass
			99	21.23	0.30	21.53	<=30	Pass
		50	0	20.26	0.30	20.56	<=30	Pass
			25	20.52	0.30	20.82	<=30	Pass
			50	20.64	0.30	20.94	<=30	Pass
		100	0	20.51	0.30	20.81	<=30	Pass
	1732.5	1	0	21.36	0.30	21.66	<=30	Pass
			50	21.50	0.30	21.80	<=30	Pass
			99	21.29	0.30	21.59	<=30	Pass
		50	0	20.49	0.30	20.79	<=30	Pass
			25	20.54	0.30	20.84	<=30	Pass
			50	20.45	0.30	20.75	<=30	Pass
		100	0	20.44	0.30	20.74	<=30	Pass
	1745	1	0	21.19	0.30	21.49	<=30	Pass
			50	21.15	0.30	21.45	<=30	Pass
			99	20.93	0.30	21.23	<=30	Pass
		50	0	20.44	0.30	20.74	<=30	Pass
			25	20.41	0.30	20.71	<=30	Pass
			50	20.41	0.30	20.71	<=30	Pass
		100	0	20.42	0.30	20.72	<=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	-5.136	-0.0030	-2.5 to 2.5	Pass
					3.85	-1.502	-0.0009	-2.5 to 2.5	Pass
					4.43	-4.849	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-2.389	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	6.065	0.0035	-2.5 to 2.5	Pass
				-10	3.85	-0.057	0.0000	-2.5 to 2.5	Pass
				0	3.85	4.749	0.0028	-2.5 to 2.5	Pass
				10	3.85	-6.723	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-2.017	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-1.388	-0.0008	-2.5 to 2.5	Pass
				50	3.85	0.458	0.0003	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	10.157	0.0059	-2.5 to 2.5	Pass
					3.85	2.203	0.0013	-2.5 to 2.5	Pass
					4.43	0.143	0.0001	-2.5 to 2.5	Pass
				-30	3.85	9.055	0.0052	-2.5 to 2.5	Pass
				-20	3.85	-1.645	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-1.159	-0.0007	-2.5 to 2.5	Pass
				0	3.85	5.465	0.0032	-2.5 to 2.5	Pass
				10	3.85	-3.920	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-0.744	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-3.419	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-3.676	-0.0021	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-1.388	-0.0008	-2.5 to 2.5	Pass
					3.85	-0.086	0.0000	-2.5 to 2.5	Pass
					4.43	13.461	0.0077	-2.5 to 2.5	Pass
				-30	3.85	0.372	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-0.257	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	-4.063	-0.0023	-2.5 to 2.5	Pass
				0	3.85	6.609	0.0038	-2.5 to 2.5	Pass
				10	3.85	-3.362	-0.0019	-2.5 to 2.5	Pass
				30	3.85	10.829	0.0062	-2.5 to 2.5	Pass
				40	3.85	7.653	0.0044	-2.5 to 2.5	Pass
				50	3.85	7.267	0.0041	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	9.084	0.0053	-2.5 to 2.5	Pass
					3.85	-3.719	-0.0022	-2.5 to 2.5	Pass
					4.43	1.788	0.0010	-2.5 to 2.5	Pass
				-30	3.85	1.659	0.0010	-2.5 to 2.5	Pass
				-20	3.85	9.212	0.0054	-2.5 to 2.5	Pass
				-10	3.85	1.059	0.0006	-2.5 to 2.5	Pass
				0	3.85	7.925	0.0046	-2.5 to 2.5	Pass
				10	3.85	10.014	0.0059	-2.5 to 2.5	Pass
				30	3.85	-0.057	0.0000	-2.5 to 2.5	Pass
				40	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				50	3.85	-0.629	-0.0004	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	8.082	0.0047	-2.5 to 2.5	Pass
					3.85	-11.659	-0.0067	-2.5 to 2.5	Pass
					4.43	-0.687	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	6.752	0.0039	-2.5 to 2.5	Pass
				-20	3.85	6.309	0.0036	-2.5 to 2.5	Pass
				-10	3.85	5.250	0.0030	-2.5 to 2.5	Pass

				0	3.85	7.868	0.0045	-2.5 to 2.5	Pass
				10	3.85	-3.433	-0.0020	-2.5 to 2.5	Pass
				30	3.85	14.277	0.0082	-2.5 to 2.5	Pass
				40	3.85	8.726	0.0050	-2.5 to 2.5	Pass
				50	3.85	8.111	0.0047	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	6.094	0.0035	-2.5 to 2.5	Pass
					3.85	-0.043	0.0000	-2.5 to 2.5	Pass
					4.43	5.350	0.0030	-2.5 to 2.5	Pass
				-30	3.85	-6.781	-0.0039	-2.5 to 2.5	Pass
				-20	3.85	9.727	0.0055	-2.5 to 2.5	Pass
				-10	3.85	1.302	0.0007	-2.5 to 2.5	Pass
				0	3.85	6.208	0.0035	-2.5 to 2.5	Pass
				10	3.85	-4.306	-0.0025	-2.5 to 2.5	Pass
				30	3.85	0.229	0.0001	-2.5 to 2.5	Pass
				40	3.85	-5.851	-0.0033	-2.5 to 2.5	Pass
				50	3.85	10.772	0.0061	-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	0.587	0.0003	-2.5 to 2.5	Pass
					3.85	0.157	0.0001	-2.5 to 2.5	Pass
					4.43	4.435	0.0026	-2.5 to 2.5	Pass
				-30	3.85	1.273	0.0007	-2.5 to 2.5	Pass
				-20	3.85	2.389	0.0014	-2.5 to 2.5	Pass
				-10	3.85	1.931	0.0011	-2.5 to 2.5	Pass
				0	3.85	-2.446	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-0.300	-0.0002	-2.5 to 2.5	Pass
				30	3.85	20.442	0.0119	-2.5 to 2.5	Pass
				40	3.85	13.518	0.0079	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	5.894	0.0034	-2.5 to 2.5	Pass
					3.85	6.022	0.0035	-2.5 to 2.5	Pass
					4.43	3.848	0.0022	-2.5 to 2.5	Pass
				-30	3.85	6.237	0.0036	-2.5 to 2.5	Pass
				-20	3.85	8.154	0.0047	-2.5 to 2.5	Pass
				-10	3.85	0.901	0.0005	-2.5 to 2.5	Pass
				0	3.85	1.488	0.0009	-2.5 to 2.5	Pass
				10	3.85	4.864	0.0028	-2.5 to 2.5	Pass
				30	3.85	2.618	0.0015	-2.5 to 2.5	Pass
				40	3.85	-2.518	-0.0015	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	4.134	0.0024	-2.5 to 2.5	Pass
					3.85	0.930	0.0005	-2.5 to 2.5	Pass
					4.43	0.629	0.0004	-2.5 to 2.5	Pass
				-30	3.85	7.095	0.0040	-2.5 to 2.5	Pass
				-20	3.85	0.143	0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.730	-0.0004	-2.5 to 2.5	Pass
				0	3.85	7.553	0.0043	-2.5 to 2.5	Pass
				10	3.85	1.988	0.0011	-2.5 to 2.5	Pass
				30	3.85	0.615	0.0004	-2.5 to 2.5	Pass
				40	3.85	5.822	0.0033	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	2.890	0.0017	-2.5 to 2.5	Pass
					3.85	4.177	0.0024	-2.5 to 2.5	Pass
					4.43	2.518	0.0015	-2.5 to 2.5	Pass

				-30	3.85	4.535	0.0026	-2.5 to 2.5	Pass
				-20	3.85	2.646	0.0015	-2.5 to 2.5	Pass
				-10	3.85	5.207	0.0030	-2.5 to 2.5	Pass
				0	3.85	3.476	0.0020	-2.5 to 2.5	Pass
				10	3.85	-3.948	-0.0023	-2.5 to 2.5	Pass
				30	3.85	5.250	0.0031	-2.5 to 2.5	Pass
				40	3.85	10.386	0.0061	-2.5 to 2.5	Pass
				50	3.85	11.473	0.0067	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	-0.629	-0.0004	-2.5 to 2.5	Pass
					3.85	1.988	0.0011	-2.5 to 2.5	Pass
					4.43	3.219	0.0019	-2.5 to 2.5	Pass
				-30	3.85	0.658	0.0004	-2.5 to 2.5	Pass
				-20	3.85	0.501	0.0003	-2.5 to 2.5	Pass
				-10	3.85	1.531	0.0009	-2.5 to 2.5	Pass
				0	3.85	-0.658	-0.0004	-2.5 to 2.5	Pass
				10	3.85	0.587	0.0003	-2.5 to 2.5	Pass
				30	3.85	2.203	0.0013	-2.5 to 2.5	Pass
				40	3.85	1.273	0.0007	-2.5 to 2.5	Pass
				50	3.85	7.253	0.0042	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	-4.563	-0.0026	-2.5 to 2.5	Pass
					3.85	1.359	0.0008	-2.5 to 2.5	Pass
					4.43	0.744	0.0004	-2.5 to 2.5	Pass
				-30	3.85	8.211	0.0047	-2.5 to 2.5	Pass
				-20	3.85	3.104	0.0018	-2.5 to 2.5	Pass
				-10	3.85	2.489	0.0014	-2.5 to 2.5	Pass
				0	3.85	7.367	0.0042	-2.5 to 2.5	Pass
				10	3.85	-0.558	-0.0003	-2.5 to 2.5	Pass
				30	3.85	2.089	0.0012	-2.5 to 2.5	Pass
				40	3.85	-5.479	-0.0031	-2.5 to 2.5	Pass
				50	3.85	-0.644	-0.0004	-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	2.704	0.0016	-2.5 to 2.5	Pass
					3.85	3.576	0.0021	-2.5 to 2.5	Pass
					4.43	4.935	0.0029	-2.5 to 2.5	Pass
				-30	3.85	3.104	0.0018	-2.5 to 2.5	Pass
				-20	3.85	8.883	0.0052	-2.5 to 2.5	Pass
				-10	3.85	7.811	0.0046	-2.5 to 2.5	Pass
				0	3.85	9.942	0.0058	-2.5 to 2.5	Pass
				10	3.85	4.735	0.0028	-2.5 to 2.5	Pass
				30	3.85	7.539	0.0044	-2.5 to 2.5	Pass
				40	3.85	5.836	0.0034	-2.5 to 2.5	Pass
				50	3.85	5.794	0.0034	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-1.259	-0.0007	-2.5 to 2.5	Pass
					3.85	1.888	0.0011	-2.5 to 2.5	Pass
					4.43	-1.116	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-7.982	-0.0046	-2.5 to 2.5	Pass
				-20	3.85	-0.386	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	4.892	0.0028	-2.5 to 2.5	Pass
				0	3.85	5.751	0.0033	-2.5 to 2.5	Pass
				10	3.85	1.159	0.0007	-2.5 to 2.5	Pass
				30	3.85	-6.309	-0.0036	-2.5 to 2.5	Pass
				40	3.85	4.377	0.0025	-2.5 to 2.5	Pass
				50	3.85	-3.033	-0.0018	-2.5 to 2.5	Pass

	1752.5	25	0	20	3.27	5.336	0.0030	-2.5 to 2.5	Pass
					3.85	-6.652	-0.0038	-2.5 to 2.5	Pass
					4.43	6.022	0.0034	-2.5 to 2.5	Pass
				-30	3.85	9.084	0.0052	-2.5 to 2.5	Pass
				-20	3.85	10.200	0.0058	-2.5 to 2.5	Pass
				-10	3.85	7.067	0.0040	-2.5 to 2.5	Pass
				0	3.85	3.319	0.0019	-2.5 to 2.5	Pass
				10	3.85	-0.815	-0.0005	-2.5 to 2.5	Pass
				30	3.85	1.874	0.0011	-2.5 to 2.5	Pass
				40	3.85	1.473	0.0008	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	6.480	0.0038	-2.5 to 2.5	Pass
					3.85	6.852	0.0040	-2.5 to 2.5	Pass
					4.43	2.432	0.0014	-2.5 to 2.5	Pass
				-30	3.85	1.545	0.0009	-2.5 to 2.5	Pass
				-20	3.85	-0.815	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	3.834	0.0022	-2.5 to 2.5	Pass
				0	3.85	5.379	0.0031	-2.5 to 2.5	Pass
				10	3.85	2.689	0.0016	-2.5 to 2.5	Pass
				30	3.85	6.609	0.0039	-2.5 to 2.5	Pass
				40	3.85	5.965	0.0035	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	3.519	0.0020	-2.5 to 2.5	Pass
					3.85	-5.236	-0.0030	-2.5 to 2.5	Pass
					4.43	-1.330	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-1.845	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-5.078	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	3.734	0.0022	-2.5 to 2.5	Pass
				0	3.85	-2.890	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-8.955	-0.0052	-2.5 to 2.5	Pass
				30	3.85	0.372	0.0002	-2.5 to 2.5	Pass
				40	3.85	3.691	0.0021	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-7.253	-0.0042	-2.5 to 2.5	Pass
					3.85	-5.250	-0.0030	-2.5 to 2.5	Pass
					4.43	-4.821	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-3.147	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	3.390	0.0019	-2.5 to 2.5	Pass
				-10	3.85	2.460	0.0014	-2.5 to 2.5	Pass
				0	3.85	0.844	0.0005	-2.5 to 2.5	Pass
				10	3.85	0.572	0.0003	-2.5 to 2.5	Pass
				30	3.85	2.303	0.0013	-2.5 to 2.5	Pass
				40	3.85	2.060	0.0012	-2.5 to 2.5	Pass
				20	3.85	7.482	0.0043	-2.5 to 2.5	Pass
					3.85	-3.977	-0.0023	-2.5 to 2.5	Pass
					3.85	-3.977	-0.0023	-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	2.804	0.0016	-2.5 to 2.5	Pass
					3.85	4.621	0.0027	-2.5 to 2.5	Pass
					4.43	3.691	0.0022	-2.5 to 2.5	Pass
				-30	3.85	2.275	0.0013	-2.5 to 2.5	Pass
				-20	3.85	3.033	0.0018	-2.5 to 2.5	Pass
				-10	3.85	2.904	0.0017	-2.5 to 2.5	Pass
				0	3.85	5.121	0.0030	-2.5 to 2.5	Pass
				10	3.85	3.405	0.0020	-2.5 to 2.5	Pass

				30	3.85	3.362	0.0020	-2.5 to 2.5	Pass
				40	3.85	5.150	0.0030	-2.5 to 2.5	Pass
				50	3.85	3.419	0.0020	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-0.286	-0.0002	-2.5 to 2.5	Pass
					3.85	0.501	0.0003	-2.5 to 2.5	Pass
					4.43	-0.901	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-0.544	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				-10	3.85	-0.615	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-3.490	-0.0020	-2.5 to 2.5	Pass
				10	3.85	3.605	0.0021	-2.5 to 2.5	Pass
				30	3.85	-0.286	-0.0002	-2.5 to 2.5	Pass
				40	3.85	4.191	0.0024	-2.5 to 2.5	Pass
				50	3.85	-2.360	-0.0014	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	3.591	0.0021	-2.5 to 2.5	Pass
					3.85	5.894	0.0034	-2.5 to 2.5	Pass
					4.43	5.951	0.0034	-2.5 to 2.5	Pass
				-30	3.85	7.839	0.0045	-2.5 to 2.5	Pass
				-20	3.85	7.381	0.0042	-2.5 to 2.5	Pass
				-10	3.85	3.233	0.0018	-2.5 to 2.5	Pass
				0	3.85	5.894	0.0034	-2.5 to 2.5	Pass
				10	3.85	5.608	0.0032	-2.5 to 2.5	Pass
				30	3.85	5.779	0.0033	-2.5 to 2.5	Pass
				40	3.85	4.606	0.0026	-2.5 to 2.5	Pass
				50	3.85	3.433	0.0020	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	3.977	0.0023	-2.5 to 2.5	Pass
					3.85	5.407	0.0032	-2.5 to 2.5	Pass
					4.43	2.489	0.0015	-2.5 to 2.5	Pass
				-30	3.85	3.934	0.0023	-2.5 to 2.5	Pass
				-20	3.85	2.489	0.0015	-2.5 to 2.5	Pass
				-10	3.85	3.362	0.0020	-2.5 to 2.5	Pass
				0	3.85	3.247	0.0019	-2.5 to 2.5	Pass
				10	3.85	2.332	0.0014	-2.5 to 2.5	Pass
				30	3.85	2.189	0.0013	-2.5 to 2.5	Pass
				40	3.85	3.519	0.0021	-2.5 to 2.5	Pass
				50	3.85	4.735	0.0028	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	1.817	0.0010	-2.5 to 2.5	Pass
					3.85	0.558	0.0003	-2.5 to 2.5	Pass
					4.43	5.865	0.0034	-2.5 to 2.5	Pass
				-30	3.85	3.920	0.0023	-2.5 to 2.5	Pass
				-20	3.85	5.322	0.0031	-2.5 to 2.5	Pass
				-10	3.85	2.875	0.0017	-2.5 to 2.5	Pass
				0	3.85	-5.307	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-2.146	-0.0012	-2.5 to 2.5	Pass
				30	3.85	2.189	0.0013	-2.5 to 2.5	Pass
				40	3.85	2.718	0.0016	-2.5 to 2.5	Pass
				50	3.85	-5.078	-0.0029	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	8.926	0.0051	-2.5 to 2.5	Pass
					3.85	6.552	0.0037	-2.5 to 2.5	Pass
					4.43	5.364	0.0031	-2.5 to 2.5	Pass
				-30	3.85	5.794	0.0033	-2.5 to 2.5	Pass
				-20	3.85	1.616	0.0009	-2.5 to 2.5	Pass
				-10	3.85	6.909	0.0039	-2.5 to 2.5	Pass
				0	3.85	2.990	0.0017	-2.5 to 2.5	Pass
				10	3.85	5.479	0.0031	-2.5 to 2.5	Pass
				30	3.85	5.093	0.0029	-2.5 to 2.5	Pass
				40	3.85	5.064	0.0029	-2.5 to 2.5	Pass
				50	3.85	5.922	0.0034	-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	1.144	0.0007	-2.5 to 2.5	Pass
					3.85	0.730	0.0004	-2.5 to 2.5	Pass
					4.43	2.060	0.0012	-2.5 to 2.5	Pass
				-30	3.85	2.618	0.0015	-2.5 to 2.5	Pass
				-20	3.85	4.177	0.0024	-2.5 to 2.5	Pass
				-10	3.85	3.476	0.0020	-2.5 to 2.5	Pass
				0	3.85	5.665	0.0033	-2.5 to 2.5	Pass
				10	3.85	3.190	0.0019	-2.5 to 2.5	Pass
				30	3.85	1.860	0.0011	-2.5 to 2.5	Pass
				40	3.85	4.449	0.0026	-2.5 to 2.5	Pass
				50	3.85	2.375	0.0014	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-0.401	-0.0002	-2.5 to 2.5	Pass
					3.85	0.916	0.0005	-2.5 to 2.5	Pass
					4.43	-2.003	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	0.815	0.0005	-2.5 to 2.5	Pass
				-20	3.85	2.289	0.0013	-2.5 to 2.5	Pass
				-10	3.85	1.860	0.0011	-2.5 to 2.5	Pass
				0	3.85	-0.901	-0.0005	-2.5 to 2.5	Pass
				10	3.85	2.732	0.0016	-2.5 to 2.5	Pass
				30	3.85	1.488	0.0009	-2.5 to 2.5	Pass
				40	3.85	4.892	0.0028	-2.5 to 2.5	Pass
				50	3.85	-1.459	-0.0008	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	3.219	0.0018	-2.5 to 2.5	Pass
					3.85	4.678	0.0027	-2.5 to 2.5	Pass
					4.43	4.935	0.0028	-2.5 to 2.5	Pass
				-30	3.85	2.632	0.0015	-2.5 to 2.5	Pass
				-20	3.85	3.948	0.0023	-2.5 to 2.5	Pass
				-10	3.85	3.333	0.0019	-2.5 to 2.5	Pass
				0	3.85	3.033	0.0017	-2.5 to 2.5	Pass
				10	3.85	2.389	0.0014	-2.5 to 2.5	Pass
				30	3.85	1.345	0.0008	-2.5 to 2.5	Pass
				40	3.85	-0.229	-0.0001	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	2.933	0.0017	-2.5 to 2.5	Pass
					3.85	-0.114	-0.0001	-2.5 to 2.5	Pass
					4.43	-0.172	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	1.917	0.0011	-2.5 to 2.5	Pass
				-20	3.85	2.890	0.0017	-2.5 to 2.5	Pass
				-10	3.85	3.076	0.0018	-2.5 to 2.5	Pass
				0	3.85	2.832	0.0016	-2.5 to 2.5	Pass
				10	3.85	5.021	0.0029	-2.5 to 2.5	Pass
				30	3.85	4.950	0.0029	-2.5 to 2.5	Pass
				40	3.85	0.873	0.0005	-2.5 to 2.5	Pass
				50	3.85	1.173	0.0007	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	2.117	0.0012	-2.5 to 2.5	Pass
					3.85	0.343	0.0002	-2.5 to 2.5	Pass
					4.43	0.186	0.0001	-2.5 to 2.5	Pass
				-30	3.85	2.604	0.0015	-2.5 to 2.5	Pass
				-20	3.85	3.748	0.0022	-2.5 to 2.5	Pass
				-10	3.85	0.873	0.0005	-2.5 to 2.5	Pass
				0	3.85	2.732	0.0016	-2.5 to 2.5	Pass
				10	3.85	-0.587	-0.0003	-2.5 to 2.5	Pass
				30	3.85	-0.529	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.358	-0.0002	-2.5 to 2.5	Pass
				50	3.85	1.988	0.0011	-2.5 to 2.5	Pass

	1747.5	75	0	20	3.27	2.418	0.0014	-2.5 to 2.5	Pass
					3.85	4.878	0.0028	-2.5 to 2.5	Pass
					4.43	3.633	0.0021	-2.5 to 2.5	Pass
				-30	3.85	3.920	0.0022	-2.5 to 2.5	Pass
				-20	3.85	2.718	0.0016	-2.5 to 2.5	Pass
				-10	3.85	-1.059	-0.0006	-2.5 to 2.5	Pass
				0	3.85	4.592	0.0026	-2.5 to 2.5	Pass
				10	3.85	3.891	0.0022	-2.5 to 2.5	Pass
				30	3.85	2.103	0.0012	-2.5 to 2.5	Pass
				40	3.85	0.501	0.0003	-2.5 to 2.5	Pass
				50	3.85	1.645	0.0009	-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	-4.692	-0.0027	-2.5 to 2.5	Pass
					3.85	-0.973	-0.0006	-2.5 to 2.5	Pass
					4.43	-1.860	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-1.945	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-0.844	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-2.604	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-0.801	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-0.486	-0.0003	-2.5 to 2.5	Pass
				30	3.85	0.386	0.0002	-2.5 to 2.5	Pass
				40	3.85	-1.988	-0.0012	-2.5 to 2.5	Pass
				50	3.85	0.157	0.0001	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-1.631	-0.0009	-2.5 to 2.5	Pass
					3.85	0.672	0.0004	-2.5 to 2.5	Pass
					4.43	2.761	0.0016	-2.5 to 2.5	Pass
				-30	3.85	-0.787	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	0.858	0.0005	-2.5 to 2.5	Pass
				-10	3.85	-0.944	-0.0005	-2.5 to 2.5	Pass
				0	3.85	0.458	0.0003	-2.5 to 2.5	Pass
				10	3.85	0.200	0.0001	-2.5 to 2.5	Pass
				30	3.85	-1.602	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-1.101	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-2.003	-0.0012	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	5.736	0.0033	-2.5 to 2.5	Pass
					3.85	1.473	0.0008	-2.5 to 2.5	Pass
					4.43	4.077	0.0023	-2.5 to 2.5	Pass
				-30	3.85	3.891	0.0022	-2.5 to 2.5	Pass
				-20	3.85	0.615	0.0004	-2.5 to 2.5	Pass
				-10	3.85	1.645	0.0009	-2.5 to 2.5	Pass
				0	3.85	7.224	0.0041	-2.5 to 2.5	Pass
				10	3.85	4.935	0.0028	-2.5 to 2.5	Pass
				30	3.85	4.177	0.0024	-2.5 to 2.5	Pass
				40	3.85	0.243	0.0001	-2.5 to 2.5	Pass
				50	3.85	4.492	0.0026	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	-1.030	-0.0006	-2.5 to 2.5	Pass
					3.85	6.952	0.0040	-2.5 to 2.5	Pass
					4.43	4.907	0.0029	-2.5 to 2.5	Pass
				-30	3.85	7.496	0.0044	-2.5 to 2.5	Pass
				-20	3.85	3.419	0.0020	-2.5 to 2.5	Pass
				-10	3.85	5.708	0.0033	-2.5 to 2.5	Pass
				0	3.85	5.636	0.0033	-2.5 to 2.5	Pass
				10	3.85	4.907	0.0029	-2.5 to 2.5	Pass

				30	3.85	1.416	0.0008	-2.5 to 2.5	Pass
				40	3.85	6.609	0.0038	-2.5 to 2.5	Pass
				50	3.85	5.937	0.0035	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-2.360	-0.0014	-2.5 to 2.5	Pass
					3.85	-0.758	-0.0004	-2.5 to 2.5	Pass
					4.43	2.918	0.0017	-2.5 to 2.5	Pass
				-30	3.85	-2.489	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-0.372	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-1.431	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-3.304	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-4.606	-0.0027	-2.5 to 2.5	Pass
				30	3.85	-0.458	-0.0003	-2.5 to 2.5	Pass
				40	3.85	3.161	0.0018	-2.5 to 2.5	Pass
				50	3.85	-1.059	-0.0006	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	5.493	0.0031	-2.5 to 2.5	Pass
					3.85	3.877	0.0022	-2.5 to 2.5	Pass
					4.43	5.364	0.0031	-2.5 to 2.5	Pass
				-30	3.85	2.918	0.0017	-2.5 to 2.5	Pass
				-20	3.85	2.890	0.0017	-2.5 to 2.5	Pass
				-10	3.85	3.133	0.0018	-2.5 to 2.5	Pass
				0	3.85	0.787	0.0005	-2.5 to 2.5	Pass
				10	3.85	3.433	0.0020	-2.5 to 2.5	Pass
				30	3.85	2.718	0.0016	-2.5 to 2.5	Pass
				40	3.85	4.764	0.0027	-2.5 to 2.5	Pass
				50	3.85	1.302	0.0007	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	6	0	Refer To Test Graph		Pass
16QAM	1732.5	6	0	Refer To Test Graph		Pass

3.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	15	0	Refer To Test Graph		Pass
16QAM	1732.5	15	0	Refer To Test Graph		Pass

3.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	25	0	Refer To Test Graph		Pass
16QAM	1732.5	25	0	Refer To Test Graph		Pass

3.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	50	0	Refer To Test Graph		Pass
16QAM	1732.5	50	0	Refer To Test Graph		Pass

3.1.5 B4_15MHz

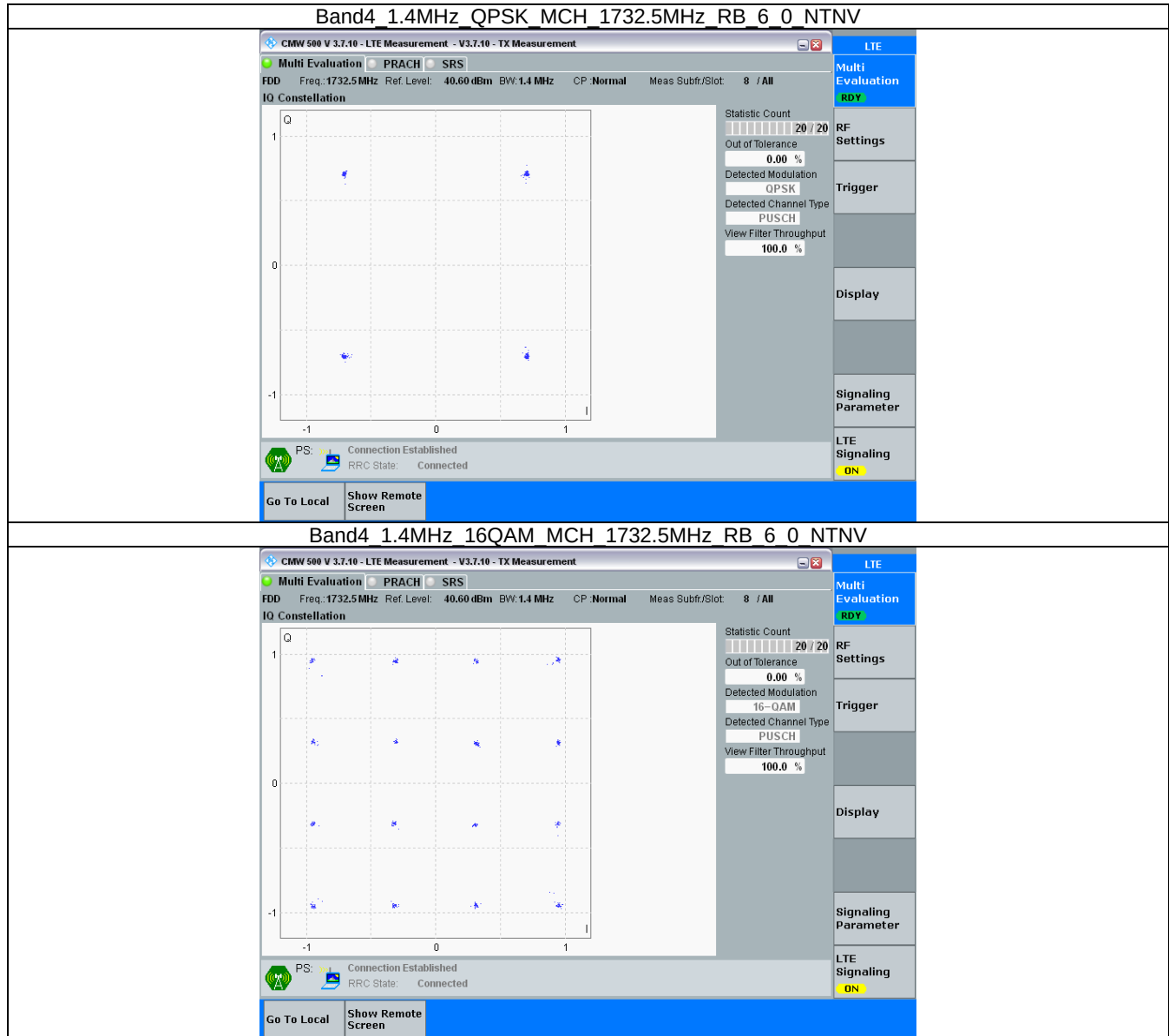
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

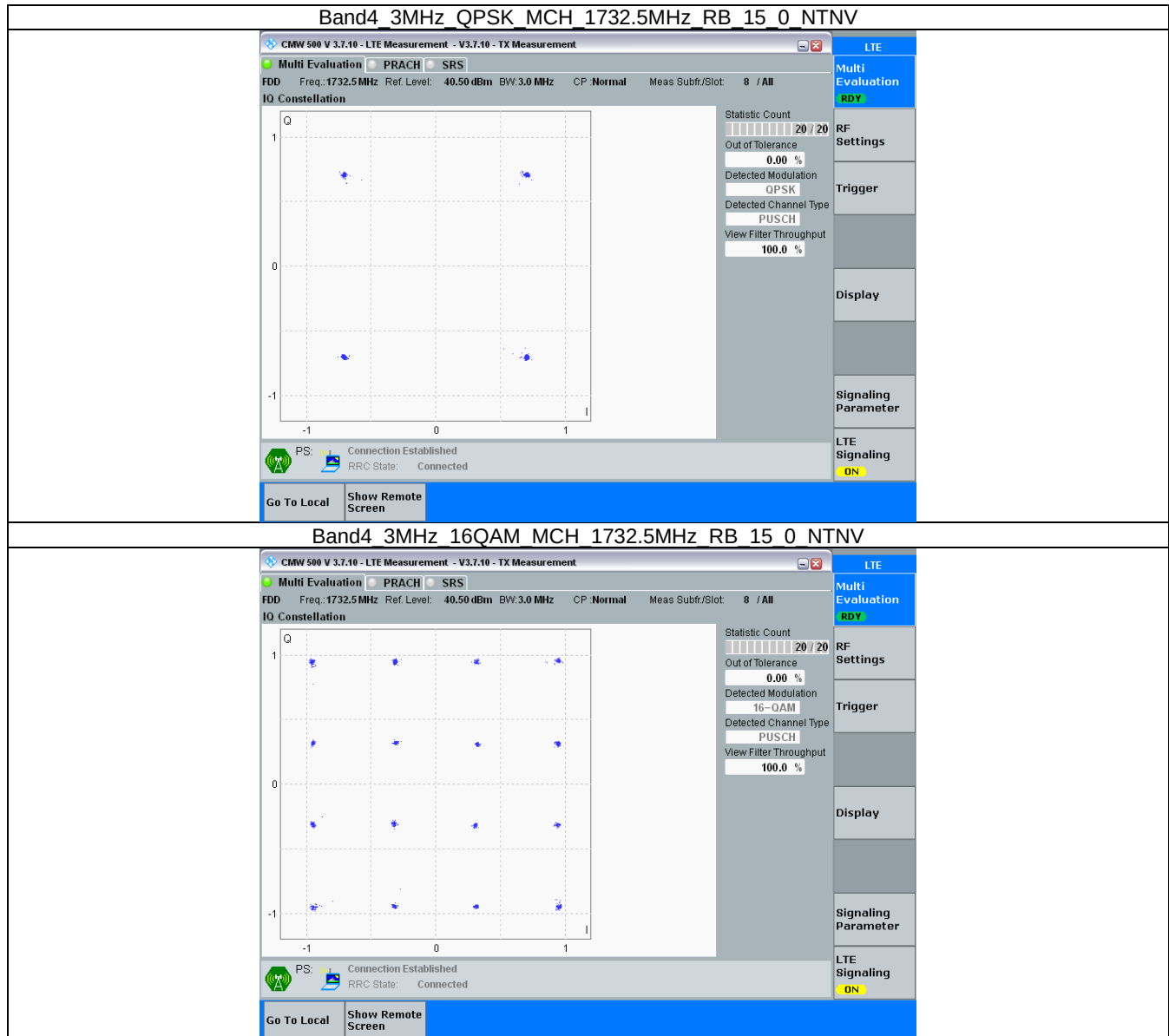
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

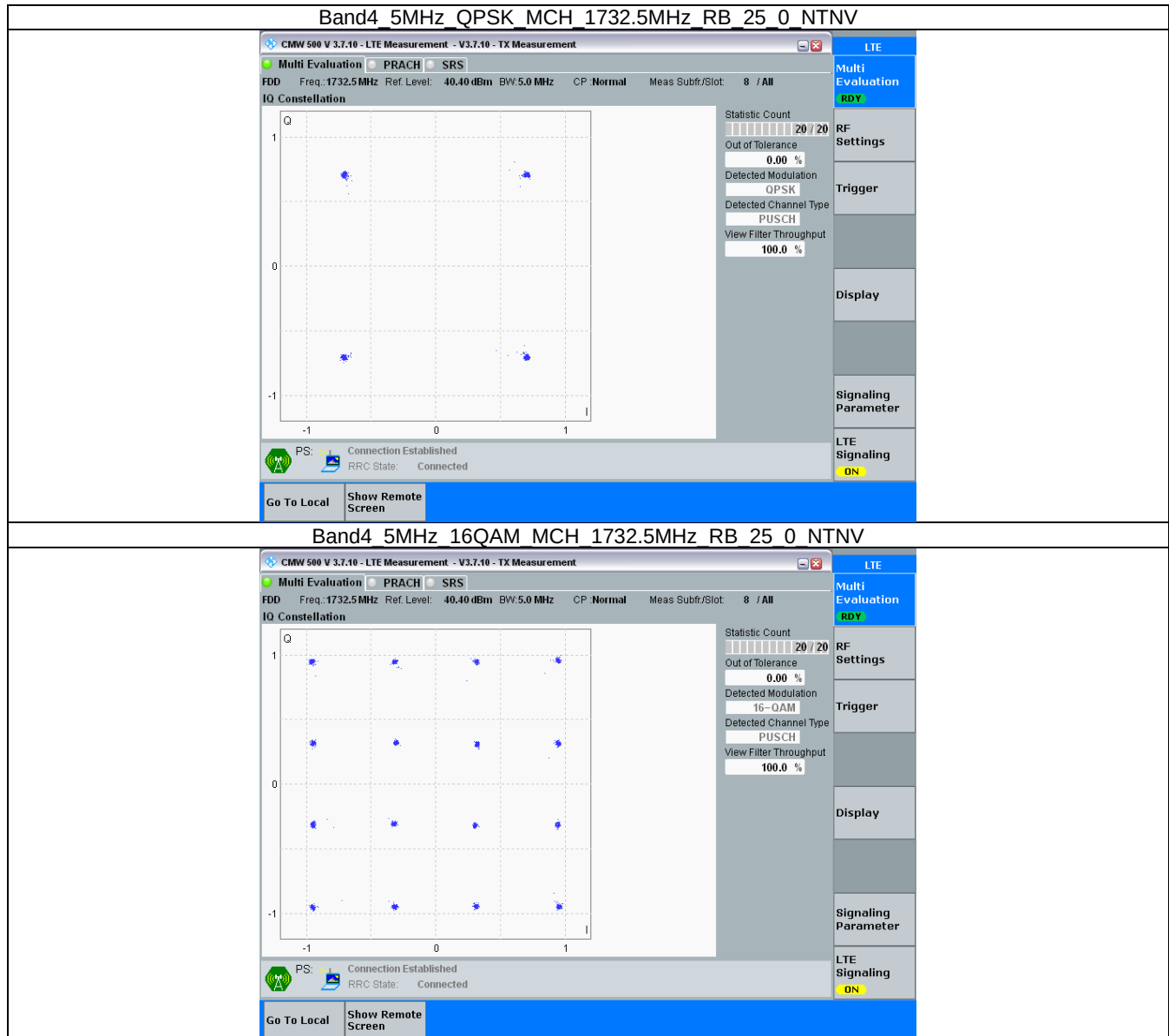
3.2.1 B4_1.4MHz



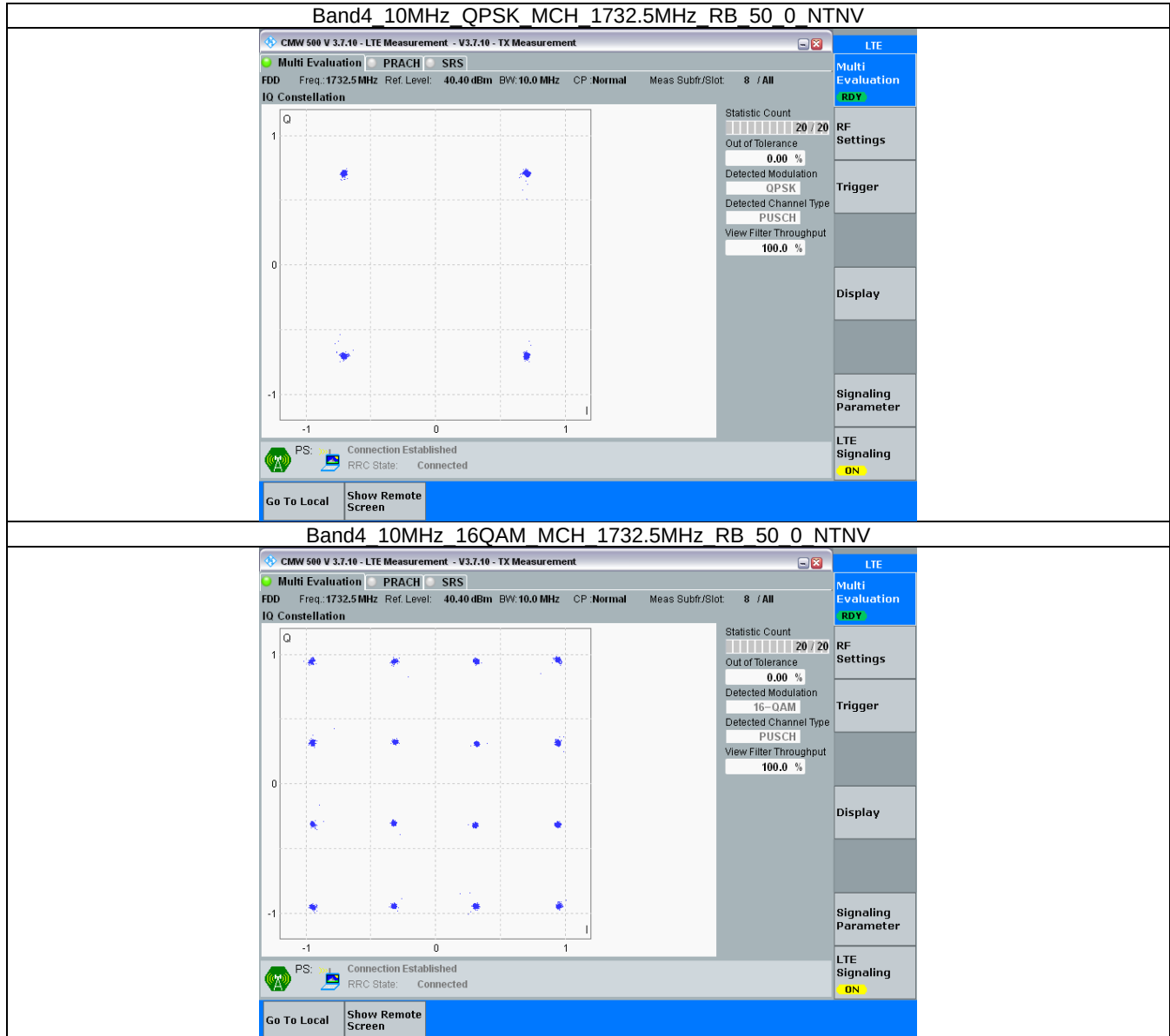
3.2.2 B4_3MHz



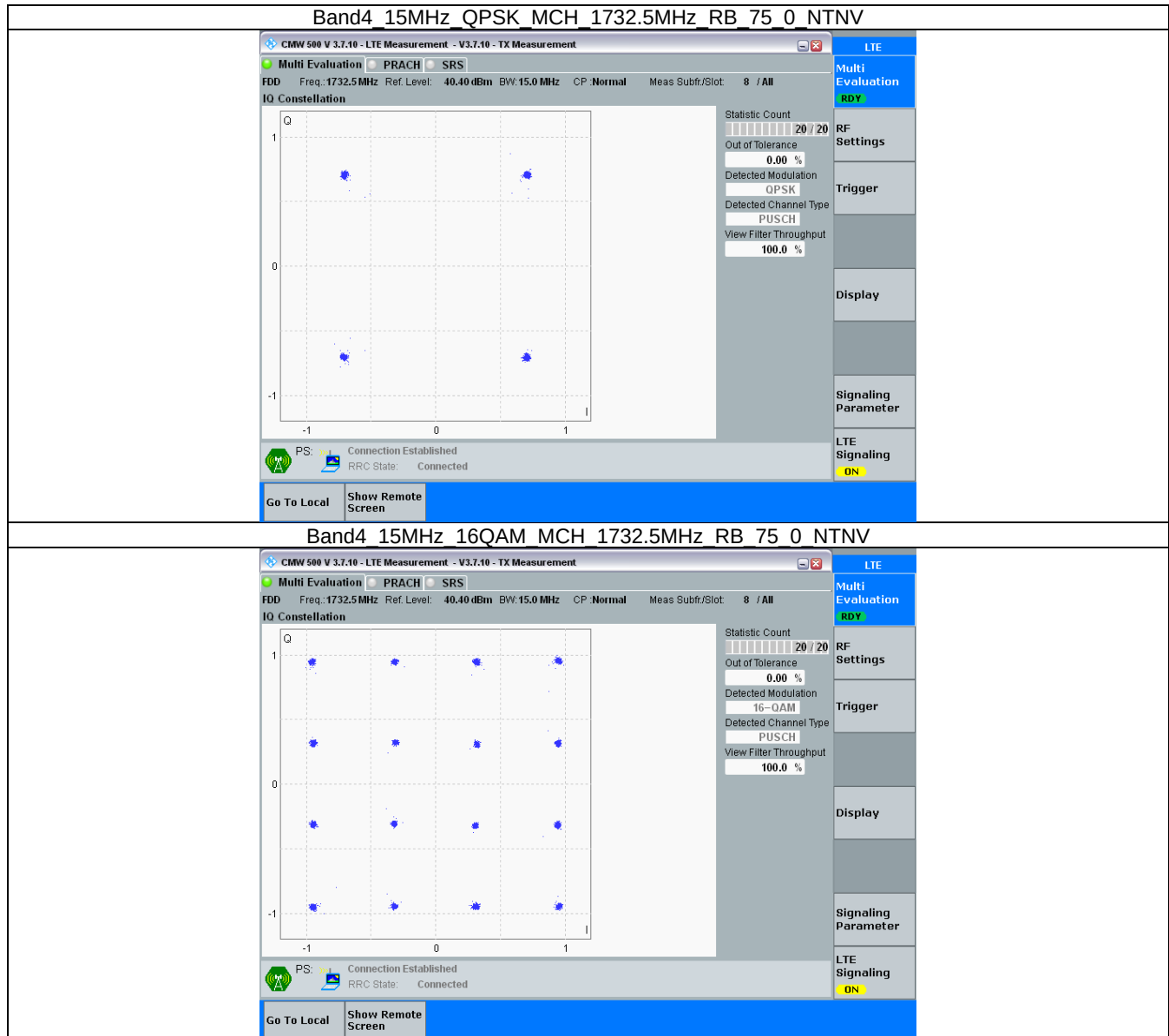
3.2.3 B4_5MHz



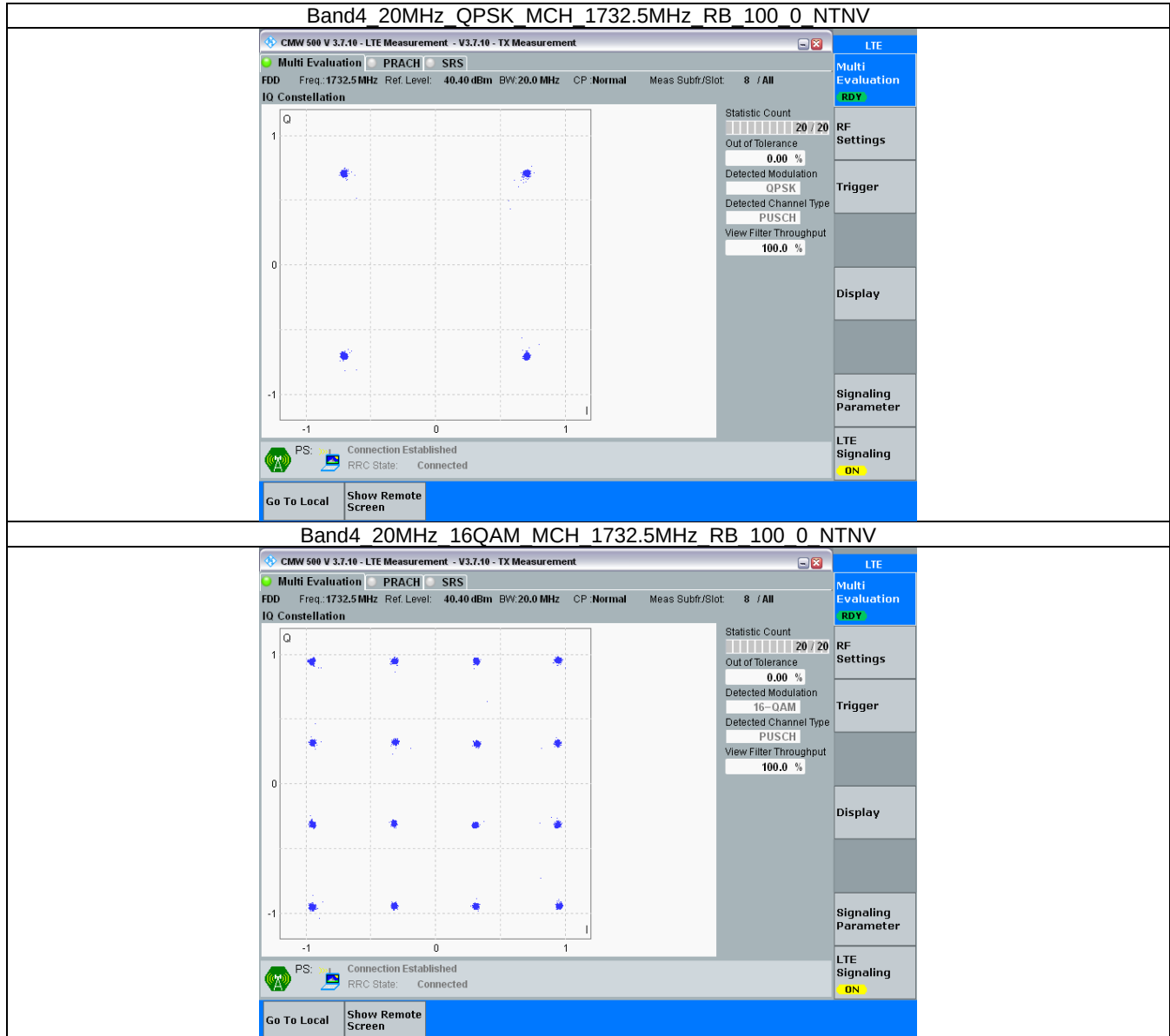
3.2.4 B4_10MHz



3.2.5 B4_15MHz



3.2.6 B4_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.086	/	Pass
		1732.5	6	0	1.082	/	Pass
		1754.3	6	0	1.092	/	Pass
	16QAM	1710.7	6	0	1.086	/	Pass
		1732.5	6	0	1.091	/	Pass
		1754.3	6	0	1.089	/	Pass
3	QPSK	1711.5	15	0	2.681	/	Pass
		1732.5	15	0	2.685	/	Pass
		1753.5	15	0	2.683	/	Pass
	16QAM	1711.5	15	0	2.682	/	Pass
		1732.5	15	0	2.678	/	Pass
		1753.5	15	0	2.684	/	Pass
5	QPSK	1712.5	25	0	4.511	/	Pass
		1732.5	25	0	4.523	/	Pass
		1752.5	25	0	4.517	/	Pass
	16QAM	1712.5	25	0	4.518	/	Pass
		1732.5	25	0	4.513	/	Pass
		1752.5	25	0	4.506	/	Pass
10	QPSK	1715	50	0	8.952	/	Pass
		1732.5	50	0	8.966	/	Pass
		1750	50	0	8.972	/	Pass
	16QAM	1715	50	0	8.960	/	Pass
		1732.5	50	0	8.951	/	Pass
		1750	50	0	8.964	/	Pass
15	QPSK	1717.5	75	0	13.447	/	Pass
		1732.5	75	0	13.411	/	Pass
		1747.5	75	0	13.480	/	Pass
	16QAM	1717.5	75	0	13.452	/	Pass
		1732.5	75	0	13.416	/	Pass
		1747.5	75	0	13.472	/	Pass
20	QPSK	1720	100	0	17.851	/	Pass
		1732.5	100	0	17.848	/	Pass
		1745	100	0	17.856	/	Pass
	16QAM	1720	100	0	17.902	/	Pass
		1732.5	100	0	17.857	/	Pass
		1745	100	0	17.870	/	Pass

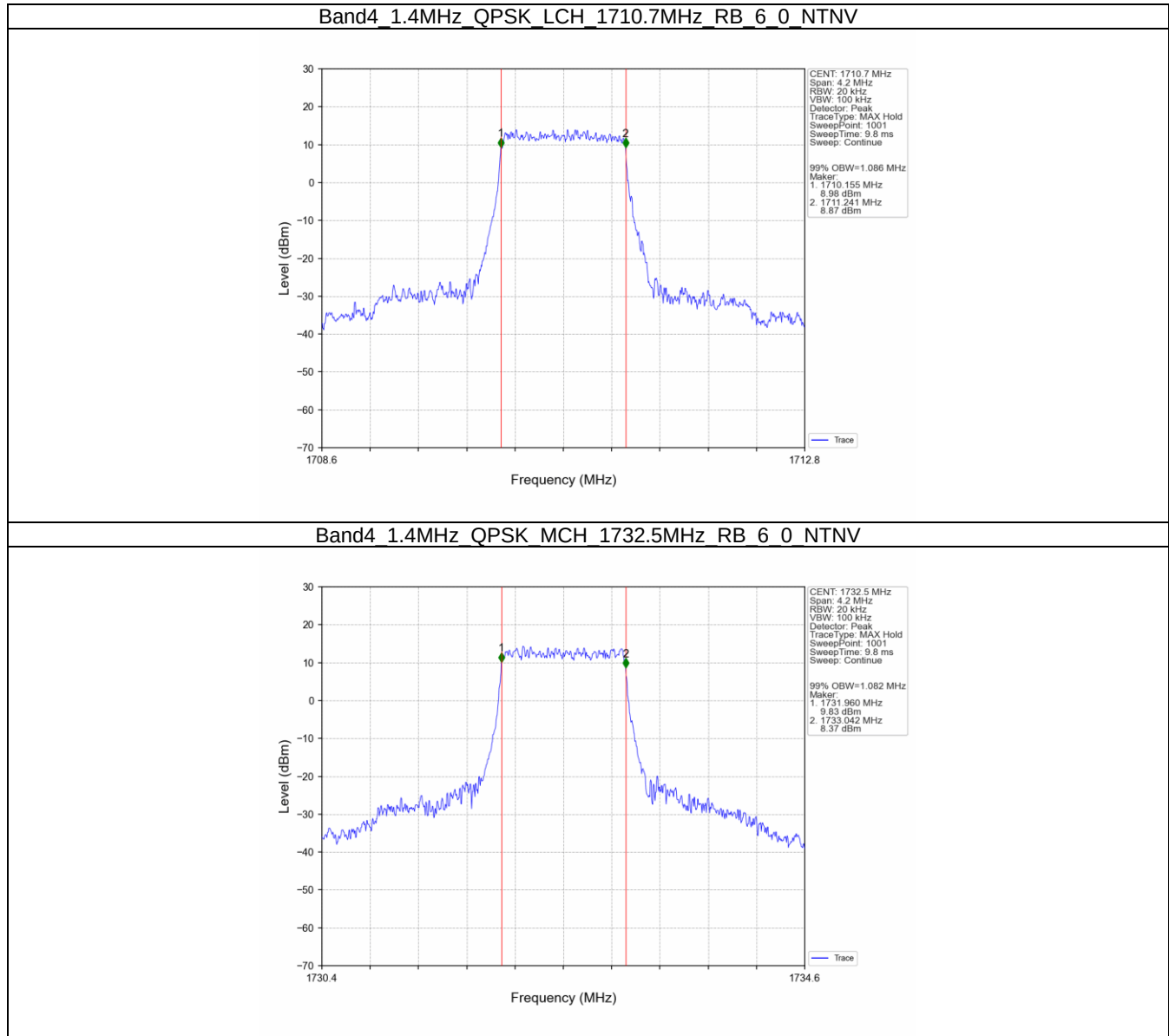
4.1.2 Band4_XDB

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	1.265	/	Pass
		1732.5	6	0	1.256	/	Pass
		1754.3	6	0	1.249	/	Pass
	16QAM	1710.7	6	0	1.241	/	Pass
		1732.5	6	0	1.274	/	Pass
		1754.3	6	0	1.253	/	Pass
3	QPSK	1711.5	15	0	2.886	/	Pass

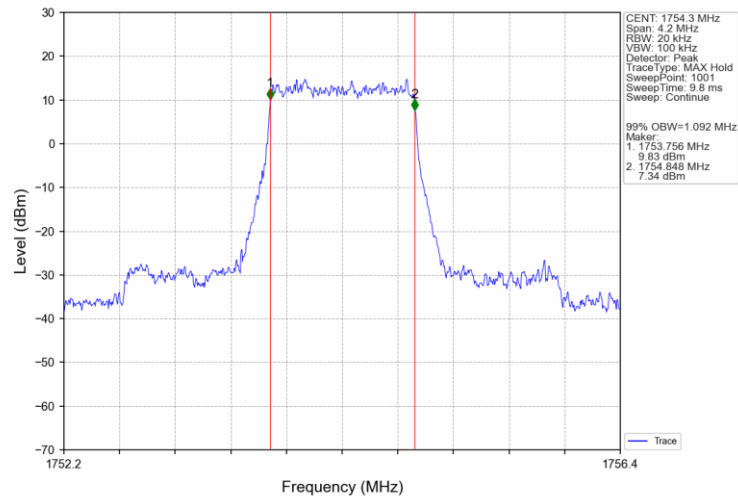
	16QAM	1732.5	15	0	2.891	/	Pass
		1753.5	15	0	2.868	/	Pass
		1711.5	15	0	2.870	/	Pass
		1732.5	15	0	2.898	/	Pass
		1753.5	15	0	2.919	/	Pass
5	QPSK	1712.5	25	0	4.981	/	Pass
		1732.5	25	0	4.960	/	Pass
		1752.5	25	0	4.992	/	Pass
	16QAM	1712.5	25	0	5.000	/	Pass
		1732.5	25	0	4.982	/	Pass
		1752.5	25	0	4.992	/	Pass
10	QPSK	1715	50	0	9.643	/	Pass
		1732.5	50	0	9.584	/	Pass
		1750	50	0	9.668	/	Pass
	16QAM	1715	50	0	9.619	/	Pass
		1732.5	50	0	9.633	/	Pass
		1750	50	0	9.641	/	Pass
15	QPSK	1717.5	75	0	14.553	/	Pass
		1732.5	75	0	14.744	/	Pass
		1747.5	75	0	14.594	/	Pass
	16QAM	1717.5	75	0	14.508	/	Pass
		1732.5	75	0	14.486	/	Pass
		1747.5	75	0	14.466	/	Pass
20	QPSK	1720	100	0	19.068	/	Pass
		1732.5	100	0	18.974	/	Pass
		1745	100	0	19.080	/	Pass
	16QAM	1720	100	0	19.029	/	Pass
		1732.5	100	0	19.053	/	Pass
		1745	100	0	19.109	/	Pass

4.2 Test Graph

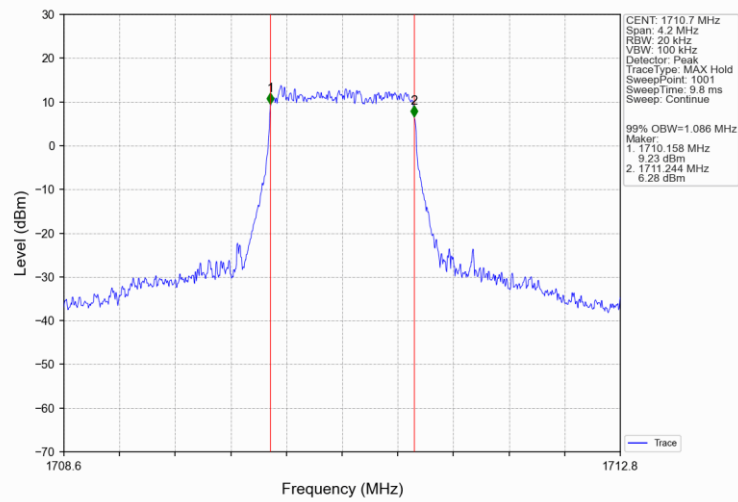
4.2.1 Band4_OBW



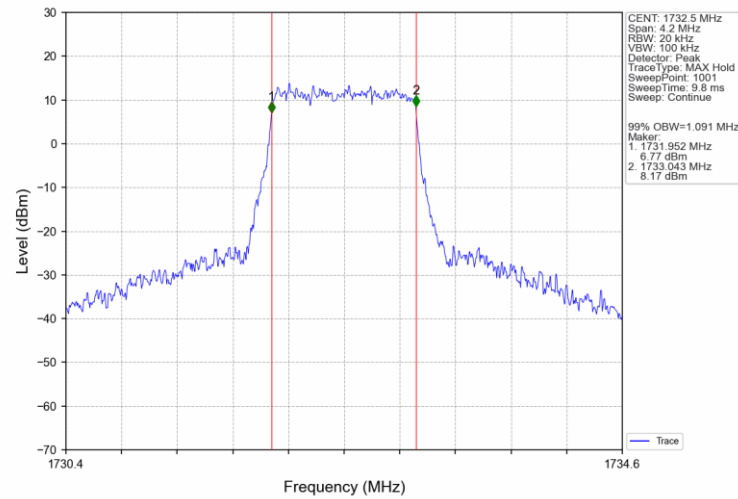
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



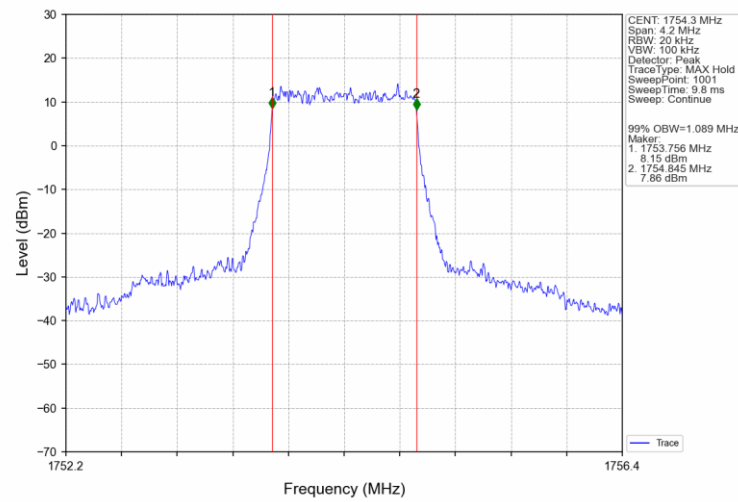
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



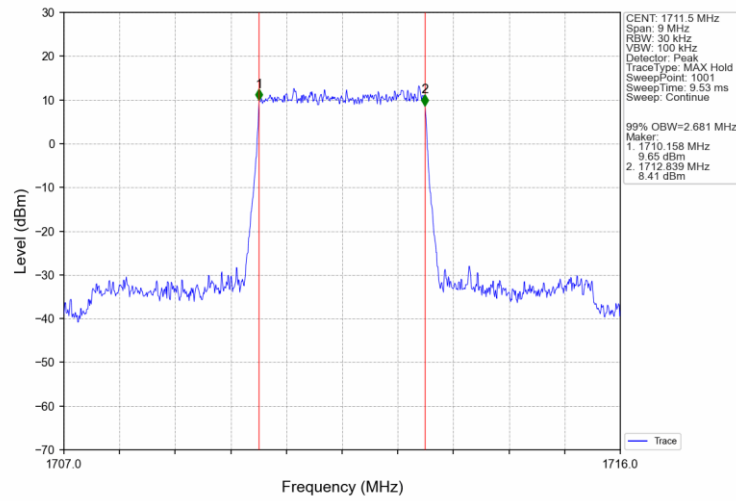
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



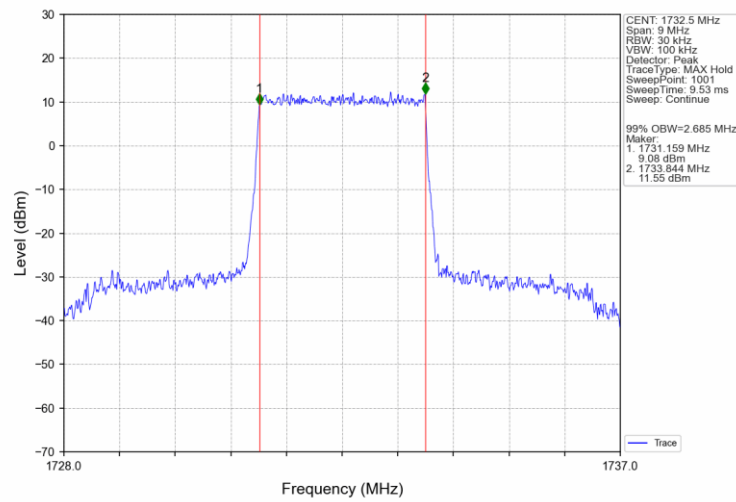
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



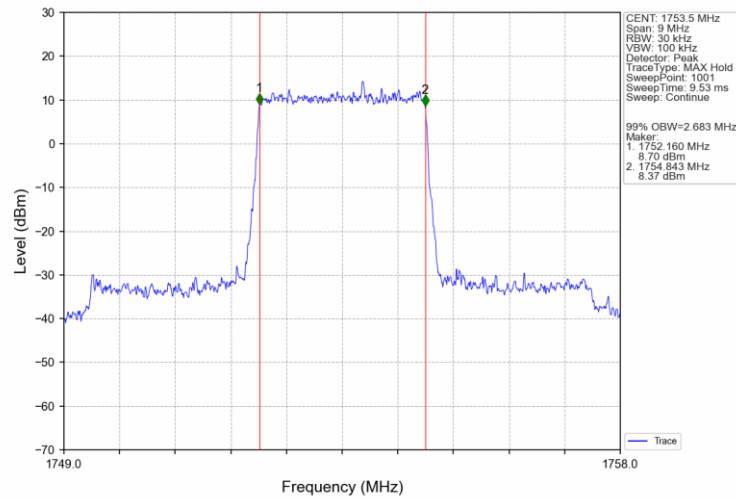
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



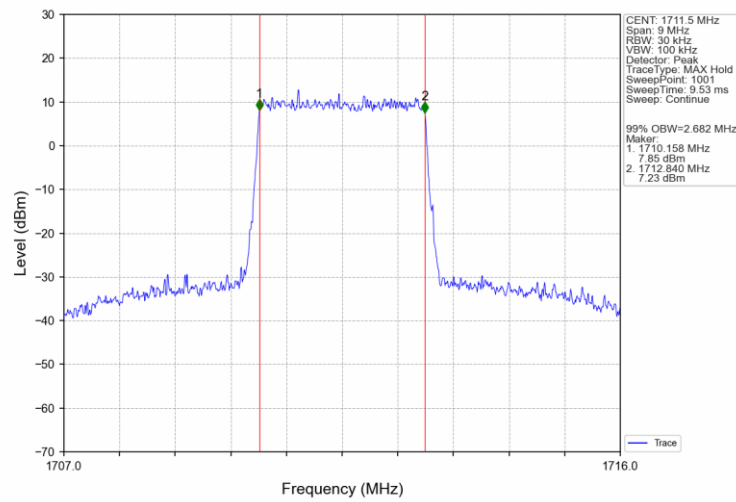
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



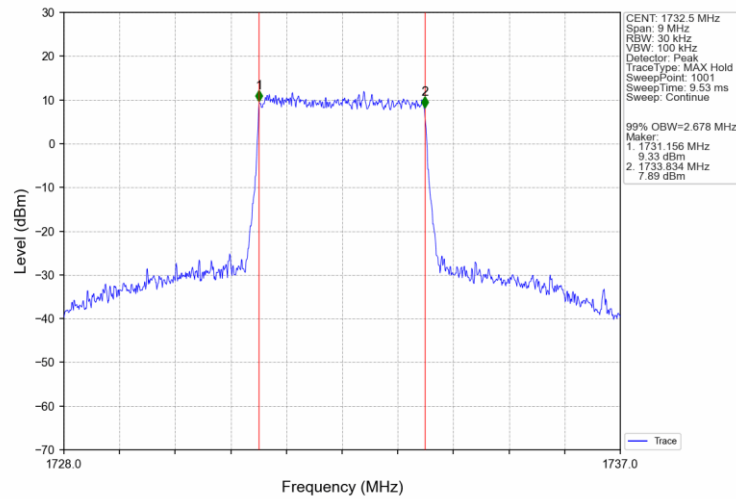
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



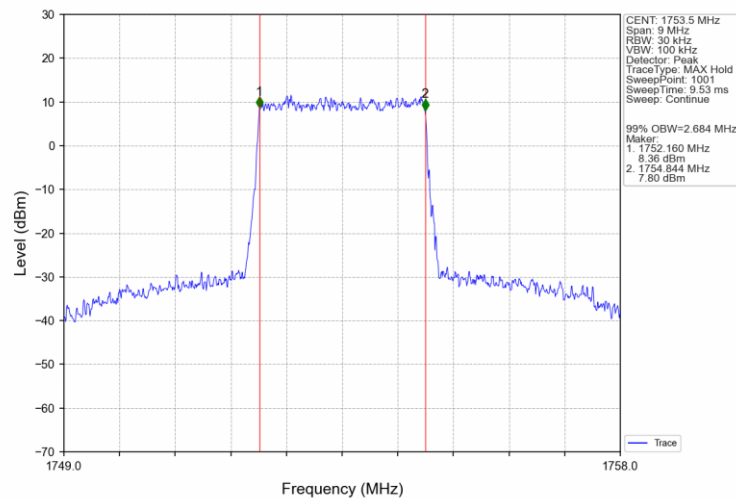
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



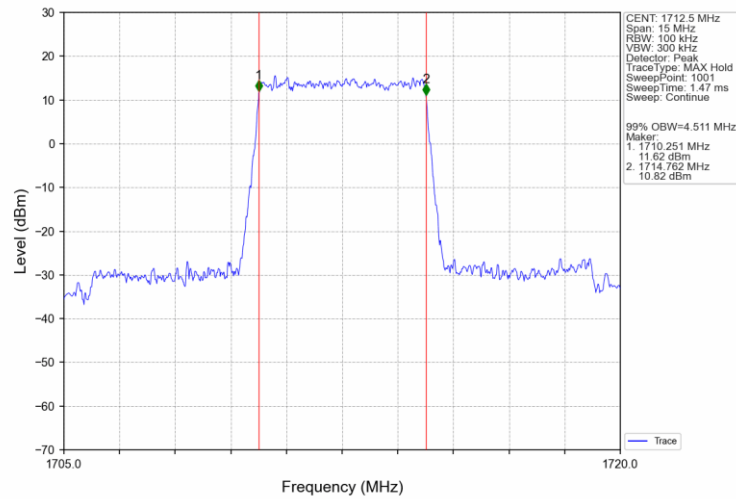
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



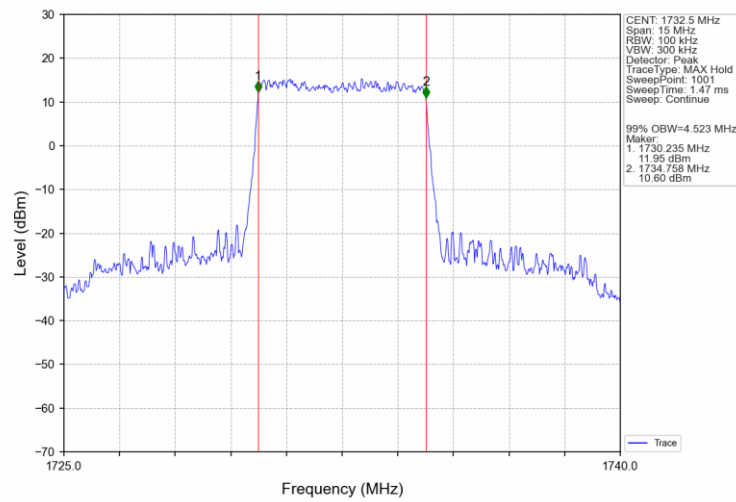
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



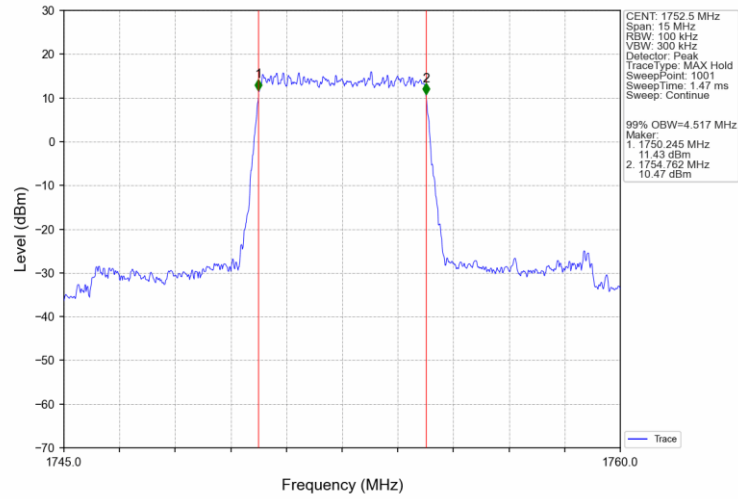
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



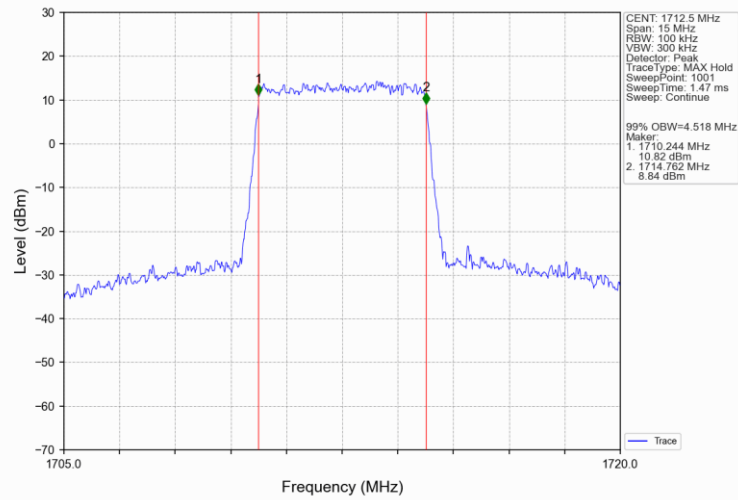
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



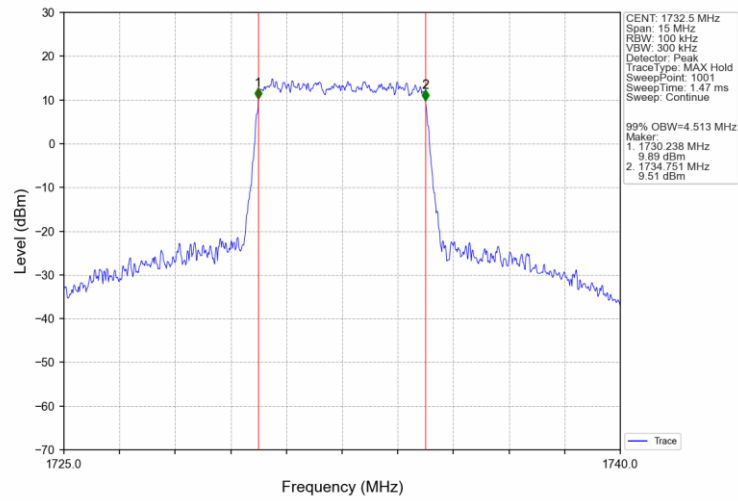
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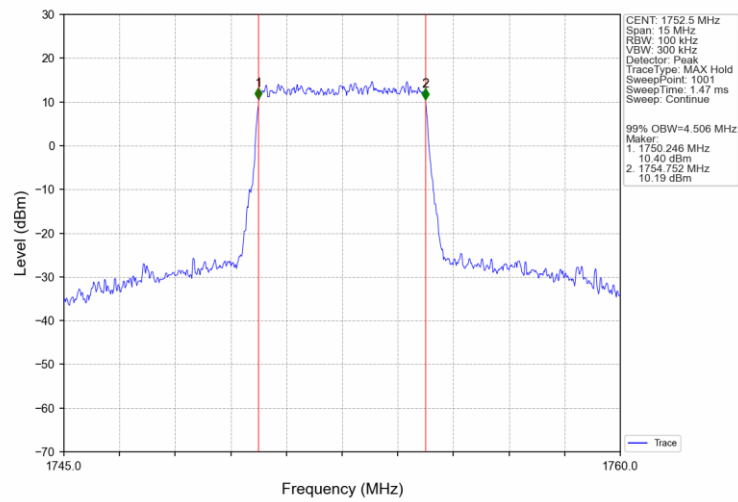
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



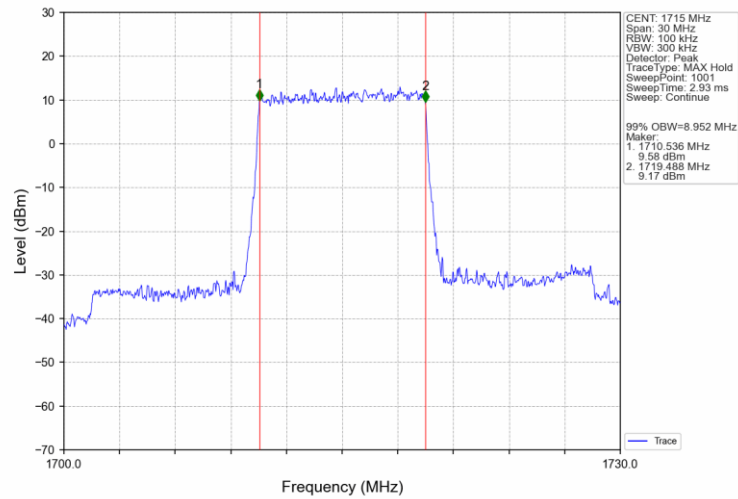
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



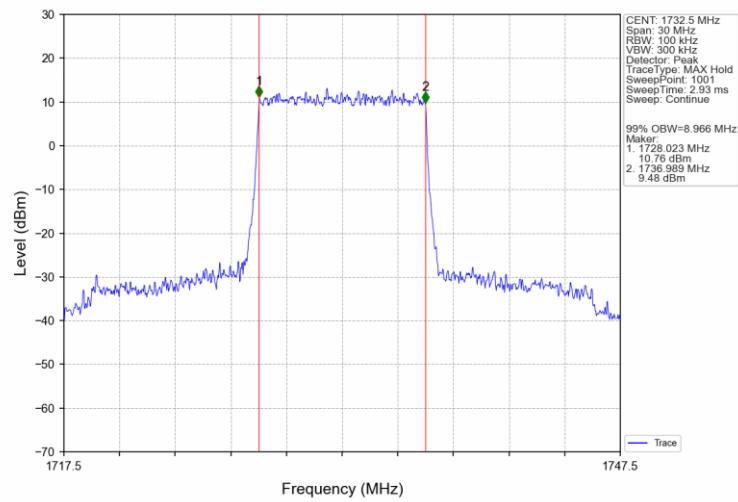
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



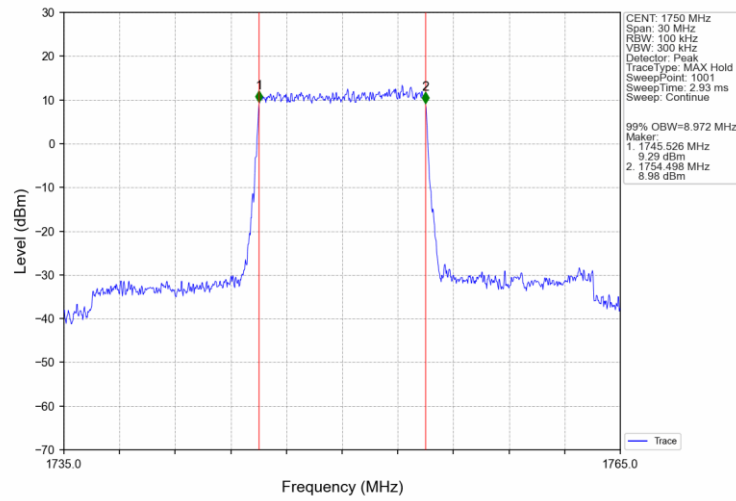
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



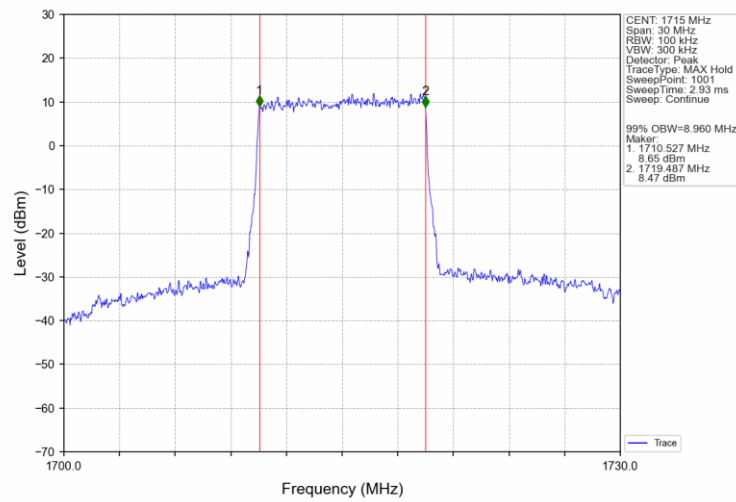
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



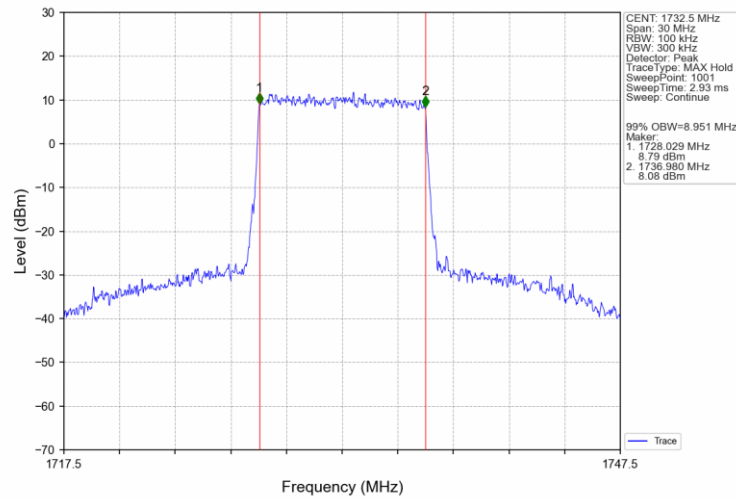
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



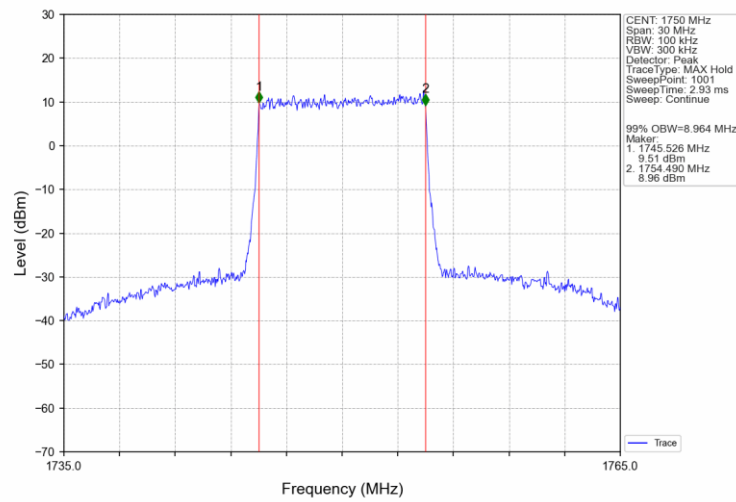
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



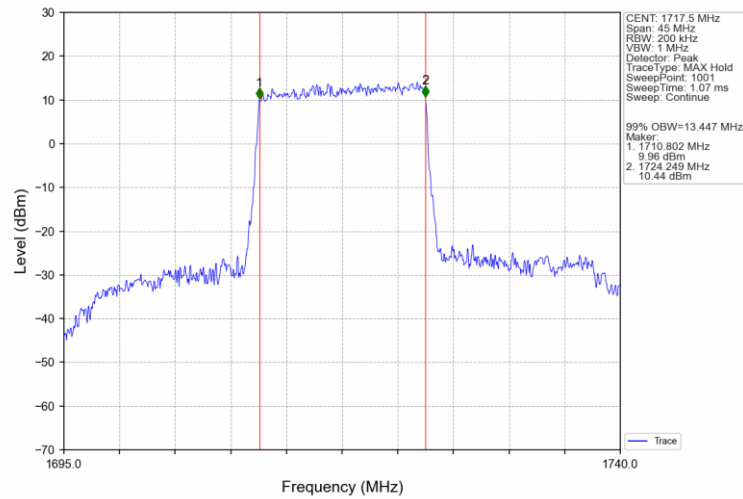
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



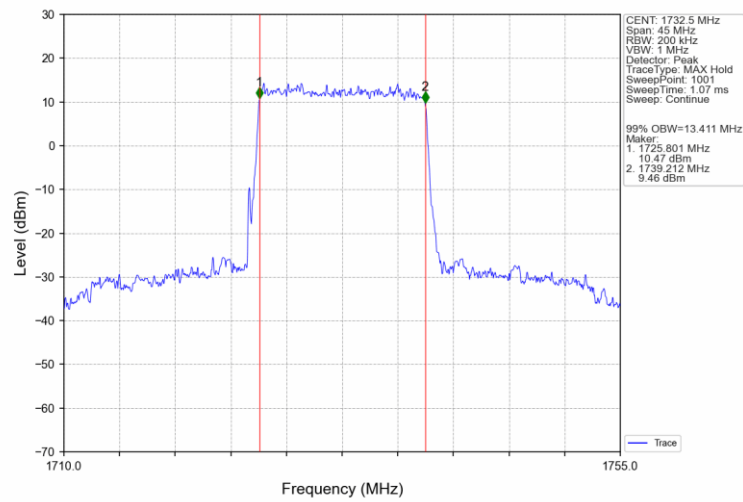
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



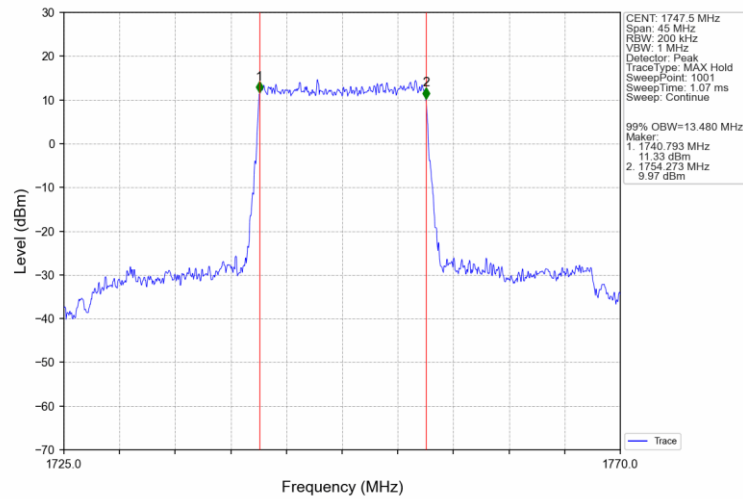
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



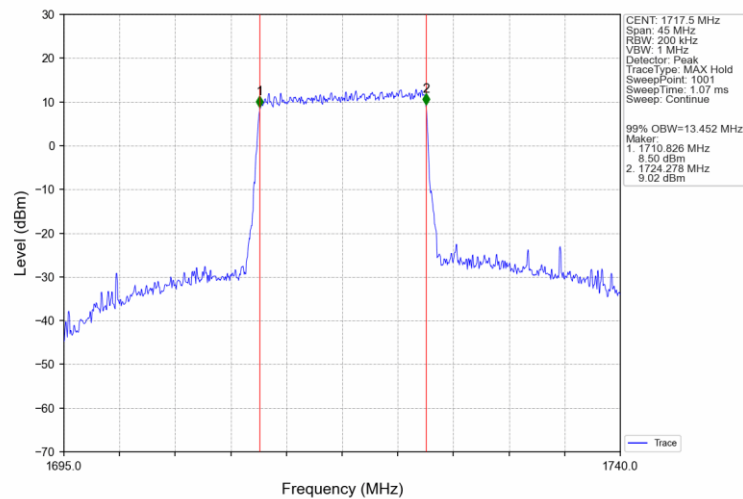
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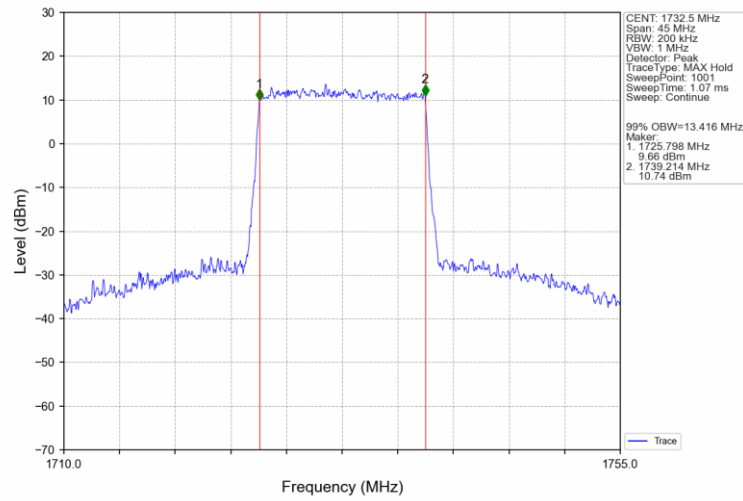
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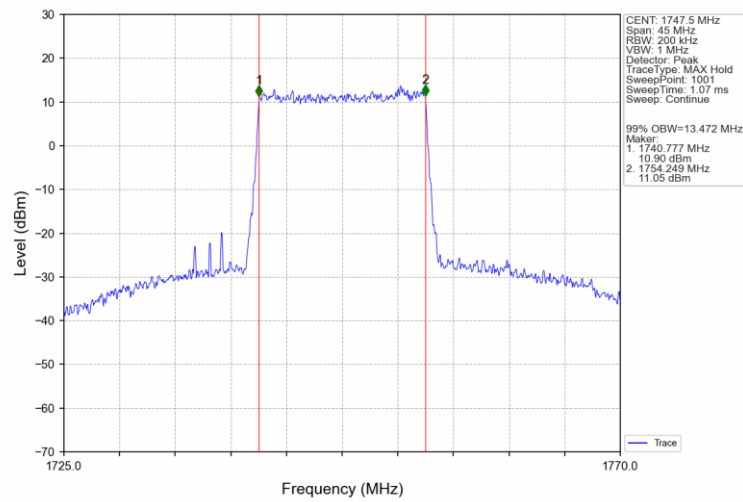
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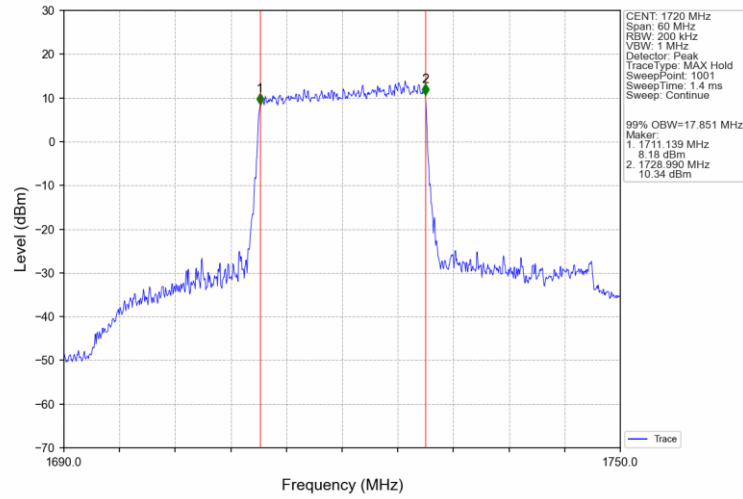
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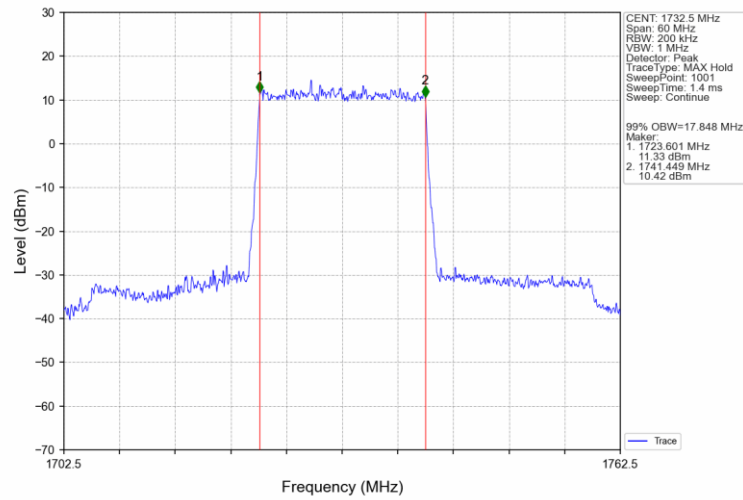
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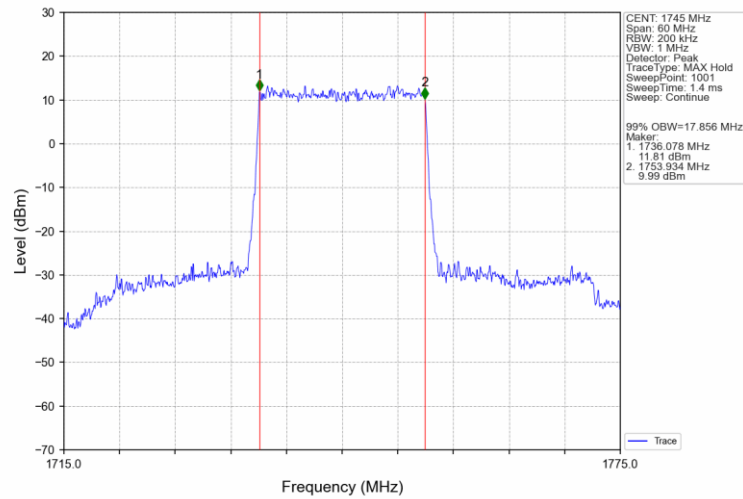
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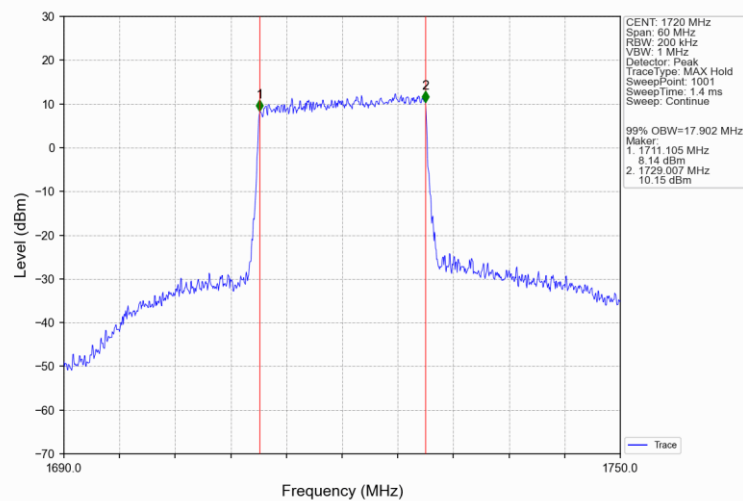
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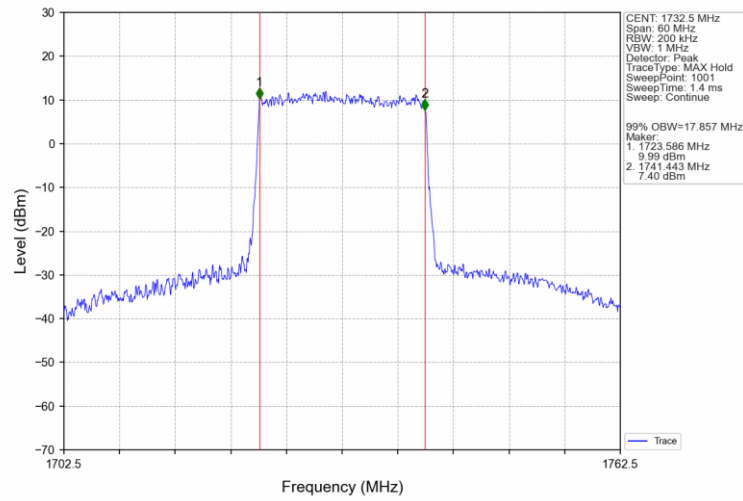
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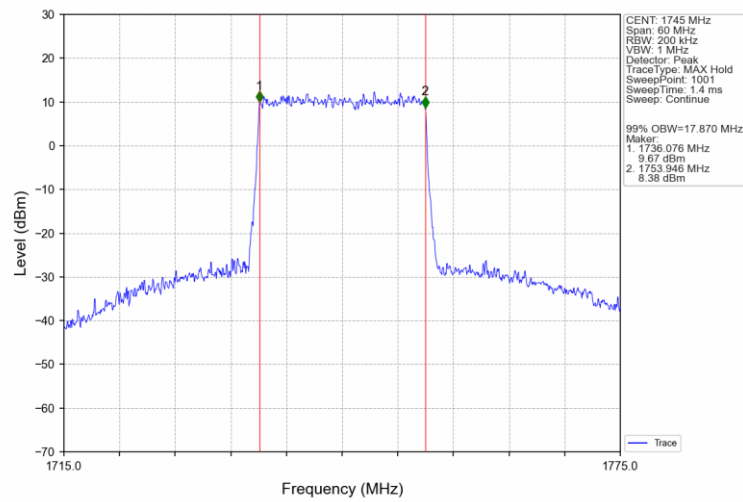
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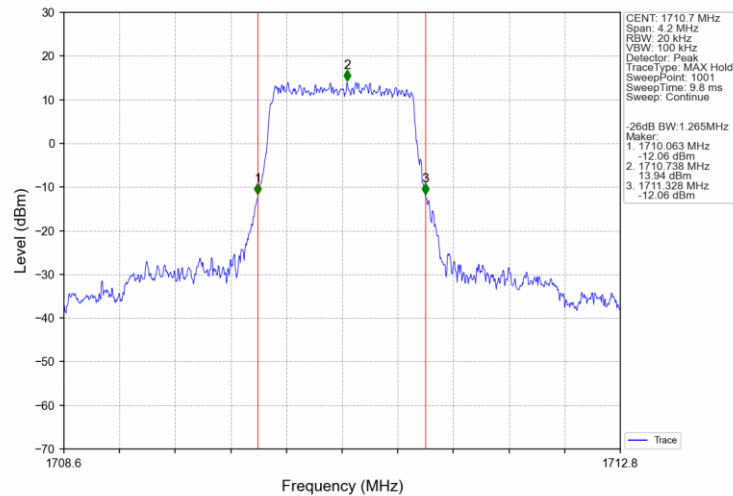


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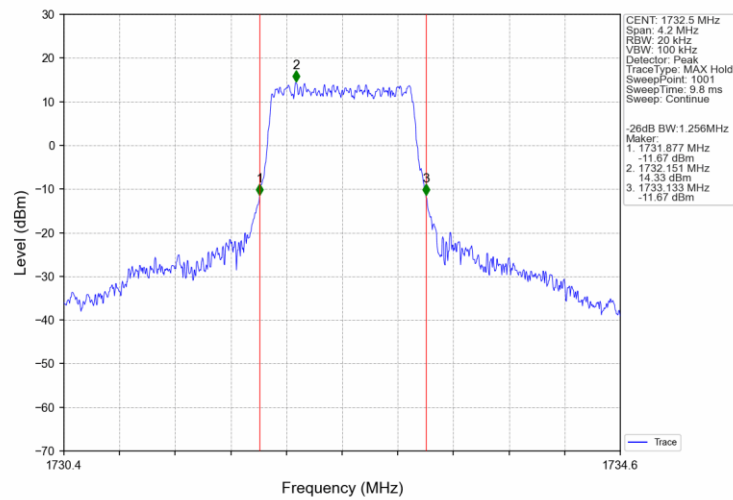


4.2.2 Band4_XDB

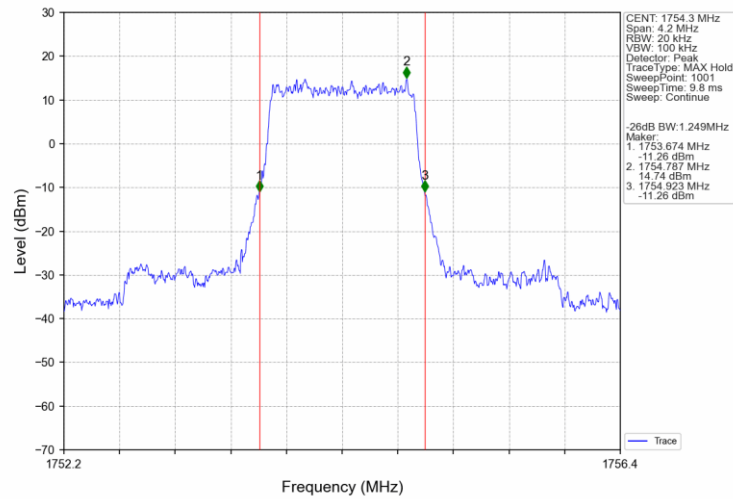
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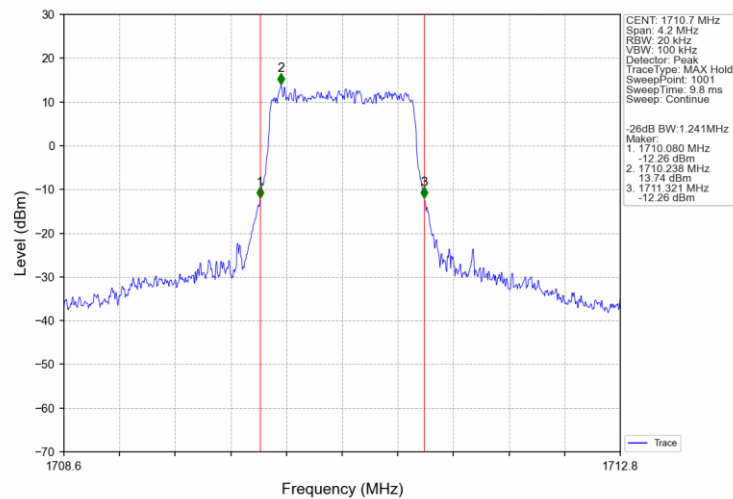
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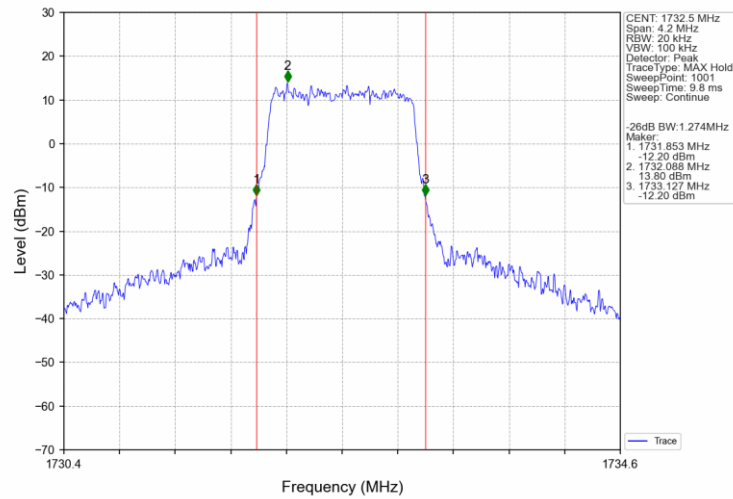
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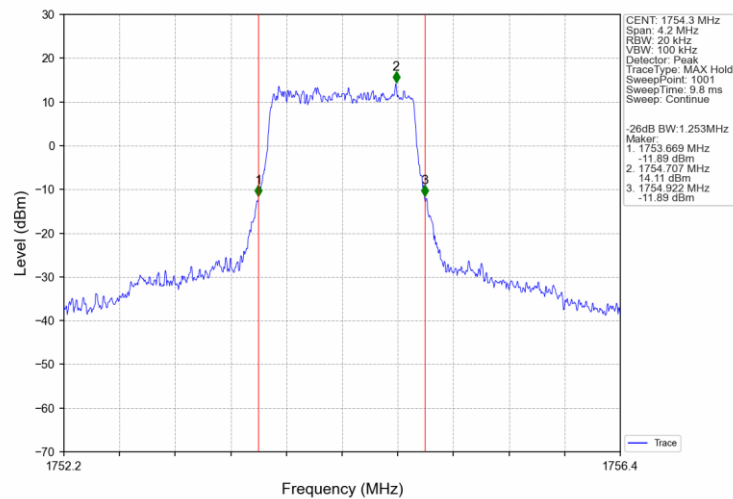
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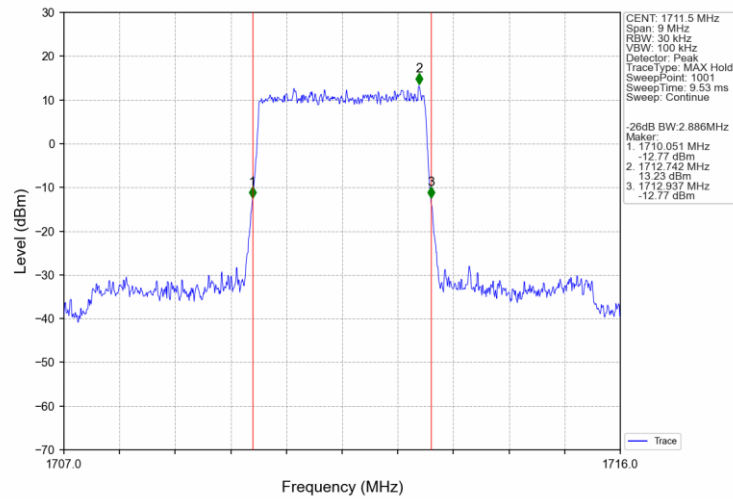
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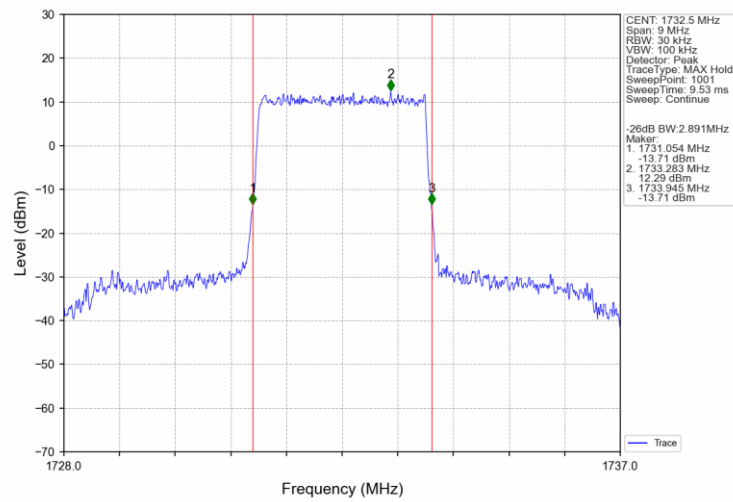
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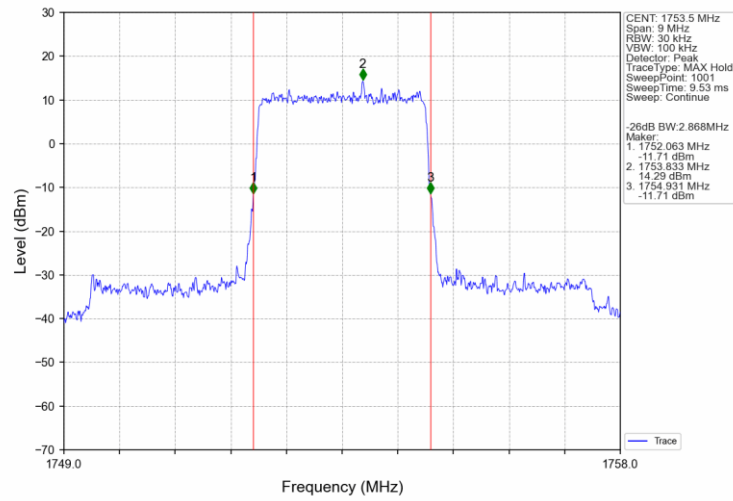
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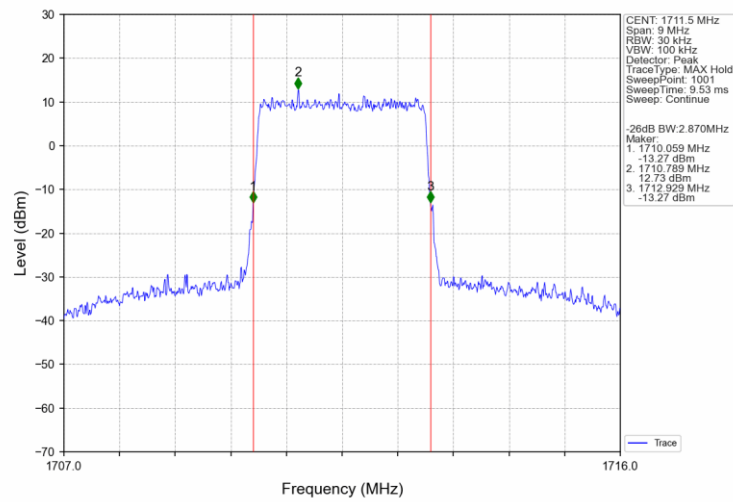
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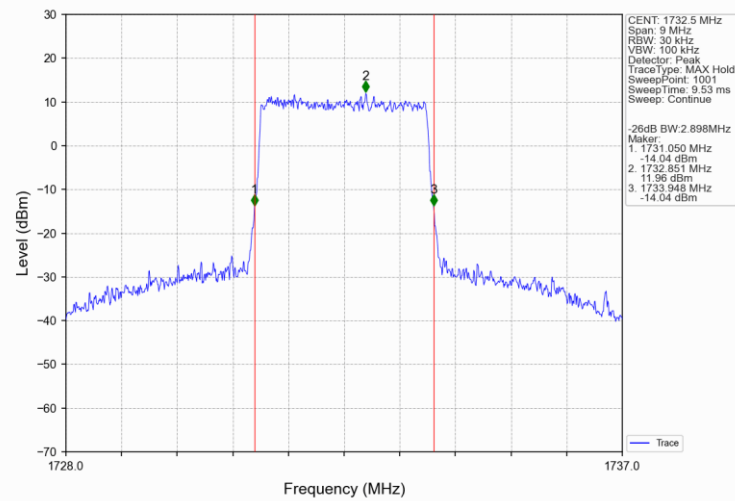
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



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

