

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	23.95	-1.00	22.95	<=30	Pass
			2	23.96	-1.00	22.96	<=30	Pass
			5	23.98	-1.00	22.98	<=30	Pass
		3	0	24.43	-1.00	23.43	<=30	Pass
			2	24.44	-1.00	23.44	<=30	Pass
			3	24.42	-1.00	23.42	<=30	Pass
		6	0	23.49	-1.00	22.49	<=30	Pass
	1732.5	1	0	23.97	-1.00	22.97	<=30	Pass
			2	23.98	-1.00	22.98	<=30	Pass
			5	23.98	-1.00	22.98	<=30	Pass
		3	0	24.48	-1.00	23.48	<=30	Pass
			2	24.46	-1.00	23.46	<=30	Pass
			3	24.43	-1.00	23.43	<=30	Pass
		6	0	23.52	-1.00	22.52	<=30	Pass
	1754.3	1	0	24.03	-1.00	23.03	<=30	Pass
			2	23.99	-1.00	22.99	<=30	Pass
			5	24.02	-1.00	23.02	<=30	Pass
		3	0	24.58	-1.00	23.58	<=30	Pass
			2	24.59	-1.00	23.59	<=30	Pass
			3	24.56	-1.00	23.56	<=30	Pass
		6	0	23.60	-1.00	22.60	<=30	Pass
16QAM	1710.7	1	0	23.15	-1.00	22.15	<=30	Pass
			2	23.15	-1.00	22.15	<=30	Pass
			5	23.16	-1.00	22.16	<=30	Pass
		3	0	23.46	-1.00	22.46	<=30	Pass
			2	23.47	-1.00	22.47	<=30	Pass
			3	23.48	-1.00	22.48	<=30	Pass
		6	0	22.50	-1.00	21.50	<=30	Pass
	1732.5	1	0	23.18	-1.00	22.18	<=30	Pass
			2	23.17	-1.00	22.17	<=30	Pass
			5	23.17	-1.00	22.17	<=30	Pass
		3	0	23.50	-1.00	22.50	<=30	Pass
			2	23.49	-1.00	22.49	<=30	Pass
			3	23.47	-1.00	22.47	<=30	Pass
		6	0	22.55	-1.00	21.55	<=30	Pass
	1754.3	1	0	23.04	-1.00	22.04	<=30	Pass
			2	23.01	-1.00	22.01	<=30	Pass
			5	23.03	-1.00	22.03	<=30	Pass
		3	0	23.73	-1.00	22.73	<=30	Pass
			2	23.76	-1.00	22.76	<=30	Pass
			3	23.77	-1.00	22.77	<=30	Pass
		6	0	22.57	-1.00	21.57	<=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	23.99	-1.00	22.99	<=30	Pass
			7	23.97	-1.00	22.97	<=30	Pass
			14	23.97	-1.00	22.97	<=30	Pass
		8	0	23.42	-1.00	22.42	<=30	Pass
			4	23.44	-1.00	22.44	<=30	Pass
			7	23.47	-1.00	22.47	<=30	Pass
		15	0	23.45	-1.00	22.45	<=30	Pass
	1732.5	1	0	23.99	-1.00	22.99	<=30	Pass
			7	23.99	-1.00	22.99	<=30	Pass
			14	23.99	-1.00	22.99	<=30	Pass
		8	0	23.54	-1.00	22.54	<=30	Pass
			4	23.52	-1.00	22.52	<=30	Pass
			7	23.49	-1.00	22.49	<=30	Pass
		15	0	23.52	-1.00	22.52	<=30	Pass
	1753.5	1	0	24.08	-1.00	23.08	<=30	Pass
			7	24.10	-1.00	23.10	<=30	Pass
			14	24.06	-1.00	23.06	<=30	Pass
		8	0	23.59	-1.00	22.59	<=30	Pass
			4	23.58	-1.00	22.58	<=30	Pass
			7	23.56	-1.00	22.56	<=30	Pass
		15	0	23.59	-1.00	22.59	<=30	Pass
16QAM	1711.5	1	0	23.09	-1.00	22.09	<=30	Pass
			7	23.05	-1.00	22.05	<=30	Pass
			14	23.04	-1.00	22.04	<=30	Pass
		8	0	22.49	-1.00	21.49	<=30	Pass
			4	22.51	-1.00	21.51	<=30	Pass
			7	22.51	-1.00	21.51	<=30	Pass
		15	0	22.48	-1.00	21.48	<=30	Pass
	1732.5	1	0	23.24	-1.00	22.24	<=30	Pass
			7	23.23	-1.00	22.23	<=30	Pass
			14	23.22	-1.00	22.22	<=30	Pass
		8	0	22.51	-1.00	21.51	<=30	Pass
			4	22.47	-1.00	21.47	<=30	Pass
			7	22.46	-1.00	21.46	<=30	Pass
		15	0	22.44	-1.00	21.44	<=30	Pass
	1753.5	1	0	23.67	-1.00	22.67	<=30	Pass
			7	23.63	-1.00	22.63	<=30	Pass
			14	23.65	-1.00	22.65	<=30	Pass
		8	0	22.77	-1.00	21.77	<=30	Pass
			4	22.76	-1.00	21.76	<=30	Pass
			7	22.77	-1.00	21.77	<=30	Pass
		15	0	22.67	-1.00	21.67	<=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	24.13	-1.00	23.13	<=30	Pass
			13	23.99	-1.00	22.99	<=30	Pass
			24	24.11	-1.00	23.11	<=30	Pass
		12	0	23.47	-1.00	22.47	<=30	Pass
			6	23.48	-1.00	22.48	<=30	Pass
			13	23.50	-1.00	22.50	<=30	Pass
		25	0	23.45	-1.00	22.45	<=30	Pass
	1732.5	1	0	24.10	-1.00	23.10	<=30	Pass
			13	24.05	-1.00	23.05	<=30	Pass
			24	24.15	-1.00	23.15	<=30	Pass
		12	0	23.51	-1.00	22.51	<=30	Pass
			6	23.53	-1.00	22.53	<=30	Pass
			13	23.50	-1.00	22.50	<=30	Pass
		25	0	23.57	-1.00	22.57	<=30	Pass
	1752.5	1	0	24.23	-1.00	23.23	<=30	Pass
			13	24.14	-1.00	23.14	<=30	Pass
			24	24.33	-1.00	23.33	<=30	Pass
		12	0	23.63	-1.00	22.63	<=30	Pass
			6	23.64	-1.00	22.64	<=30	Pass
			13	23.61	-1.00	22.61	<=30	Pass
		25	0	23.62	-1.00	22.62	<=30	Pass
16QAM	1712.5	1	0	23.18	-1.00	22.18	<=30	Pass
			13	23.06	-1.00	22.06	<=30	Pass
			24	23.12	-1.00	22.12	<=30	Pass
		12	0	22.37	-1.00	21.37	<=30	Pass
			6	22.41	-1.00	21.41	<=30	Pass
			13	22.45	-1.00	21.45	<=30	Pass
		25	0	22.47	-1.00	21.47	<=30	Pass
	1732.5	1	0	23.39	-1.00	22.39	<=30	Pass
			13	23.31	-1.00	22.31	<=30	Pass
			24	23.35	-1.00	22.35	<=30	Pass
		12	0	22.60	-1.00	21.60	<=30	Pass
			6	22.60	-1.00	21.60	<=30	Pass
			13	22.58	-1.00	21.58	<=30	Pass
		25	0	22.57	-1.00	21.57	<=30	Pass
	1752.5	1	0	22.98	-1.00	21.98	<=30	Pass
			13	22.92	-1.00	21.92	<=30	Pass
			24	23.02	-1.00	22.02	<=30	Pass
		12	0	22.61	-1.00	21.61	<=30	Pass
			6	22.60	-1.00	21.60	<=30	Pass
			13	22.56	-1.00	21.56	<=30	Pass
		25	0	22.65	-1.00	21.65	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

Band: 4 / Bandwidth: 10MHz / NTVN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1715	1	0	24.04	-1.00	23.04	<=30	Pass		
			25	24.02	-1.00	23.02	<=30	Pass		
			49	24.01	-1.00	23.01	<=30	Pass		
		25	0	23.31	-1.00	22.31	<=30	Pass		
			13	23.41	-1.00	22.41	<=30	Pass		
			25	23.50	-1.00	22.50	<=30	Pass		
		50	0	23.45	-1.00	22.45	<=30	Pass		
		1732.5	1	0	23.92	-1.00	22.92	<=30	Pass	
				25	23.59	-1.00	22.59	<=30	Pass	
	49			23.98	-1.00	22.98	<=30	Pass		
	25		0	23.59	-1.00	22.59	<=30	Pass		
			13	23.60	-1.00	22.60	<=30	Pass		
			25	23.58	-1.00	22.58	<=30	Pass		
	50		0	23.60	-1.00	22.60	<=30	Pass		
	1750		1	0	23.83	-1.00	22.83	<=30	Pass	
				25	23.95	-1.00	22.95	<=30	Pass	
		49		23.50	-1.00	22.50	<=30	Pass		
		25	0	22.85	-1.00	21.85	<=30	Pass		
			13	23.50	-1.00	22.50	<=30	Pass		
			25	22.88	-1.00	21.88	<=30	Pass		
		50	0	22.83	-1.00	21.83	<=30	Pass		
		16QAM	1715	1	0	23.02	-1.00	22.02	<=30	Pass
					25	23.10	-1.00	22.10	<=30	Pass
	49				23.10	-1.00	22.10	<=30	Pass	
25	0			22.34	-1.00	21.34	<=30	Pass		
	13			22.40	-1.00	21.40	<=30	Pass		
	25			22.57	-1.00	21.57	<=30	Pass		
50	0			22.38	-1.00	21.38	<=30	Pass		
1732.5	1			0	23.28	-1.00	22.28	<=30	Pass	
				25	23.18	-1.00	22.18	<=30	Pass	
			49	23.17	-1.00	22.17	<=30	Pass		
	25		0	22.58	-1.00	21.58	<=30	Pass		
			13	22.38	-1.00	21.38	<=30	Pass		
			25	22.40	-1.00	21.40	<=30	Pass		
	50		0	22.56	-1.00	21.56	<=30	Pass		
	1750		1	0	22.89	-1.00	21.89	<=30	Pass	
				25	22.79	-1.00	21.79	<=30	Pass	
49				22.92	-1.00	21.92	<=30	Pass		
25			0	21.74	-1.00	20.74	<=30	Pass		
			13	21.70	-1.00	20.70	<=30	Pass		
			25	21.69	-1.00	20.69	<=30	Pass		
50			0	21.74	-1.00	20.74	<=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	23.16	-1.00	22.16	<=30	Pass
			38	23.15	-1.00	22.15	<=30	Pass
			74	23.07	-1.00	22.07	<=30	Pass
		36	0	22.63	-1.00	21.63	<=30	Pass
			18	22.64	-1.00	21.64	<=30	Pass
			39	22.71	-1.00	21.71	<=30	Pass
		75	0	22.54	-1.00	21.54	<=30	Pass
			0	23.87	-1.00	22.87	<=30	Pass
			38	23.93	-1.00	22.93	<=30	Pass
	1732.5	1	74	23.90	-1.00	22.90	<=30	Pass
			0	23.28	-1.00	22.28	<=30	Pass
			18	23.35	-1.00	22.35	<=30	Pass
		36	39	23.31	-1.00	22.31	<=30	Pass
			0	23.42	-1.00	22.42	<=30	Pass
			0	23.31	-1.00	22.31	<=30	Pass
		75	38	23.44	-1.00	22.44	<=30	Pass
			74	23.47	-1.00	22.47	<=30	Pass
			0	23.08	-1.00	22.08	<=30	Pass
	1747.5	36	18	23.02	-1.00	22.02	<=30	Pass
			39	23.08	-1.00	22.08	<=30	Pass
		75	0	22.82	-1.00	21.82	<=30	Pass
16QAM	1717.5	1	0	22.46	-1.00	21.46	<=30	Pass
			38	22.47	-1.00	21.47	<=30	Pass
			74	22.48	-1.00	21.48	<=30	Pass
		36	0	21.51	-1.00	20.51	<=30	Pass
			18	21.61	-1.00	20.61	<=30	Pass
			39	21.58	-1.00	20.58	<=30	Pass
		75	0	21.50	-1.00	20.50	<=30	Pass
			0	22.33	-1.00	21.33	<=30	Pass
			38	22.27	-1.00	21.27	<=30	Pass
	1732.5	1	74	22.19	-1.00	21.19	<=30	Pass
			0	21.54	-1.00	20.54	<=30	Pass
			18	21.63	-1.00	20.63	<=30	Pass
		36	39	21.64	-1.00	20.64	<=30	Pass
			0	21.56	-1.00	20.56	<=30	Pass
			0	22.73	-1.00	21.73	<=30	Pass
		75	38	22.71	-1.00	21.71	<=30	Pass
			74	22.69	-1.00	21.69	<=30	Pass
			0	21.41	-1.00	20.41	<=30	Pass
	1747.5	36	18	21.51	-1.00	20.51	<=30	Pass
			39	21.46	-1.00	20.46	<=30	Pass
		75	0	22.46	-1.00	21.46	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	22.94	-1.00	21.94	<=30	Pass
			50	23.35	-1.00	22.35	<=30	Pass
			99	23.11	-1.00	22.11	<=30	Pass
		50	0	22.72	-1.00	21.72	<=30	Pass
			25	22.99	-1.00	21.99	<=30	Pass
			50	22.93	-1.00	21.93	<=30	Pass
		100	0	22.86	-1.00	21.86	<=30	Pass
			50	22.86	-1.00	21.86	<=30	Pass
			99	22.86	-1.00	21.86	<=30	Pass
	1732.5	1	0	23.01	-1.00	22.01	<=30	Pass
			50	23.00	-1.00	22.00	<=30	Pass
			99	23.80	-1.00	22.80	<=30	Pass
		50	0	22.52	-1.00	21.52	<=30	Pass
			25	22.54	-1.00	21.54	<=30	Pass
			50	22.73	-1.00	21.73	<=30	Pass
		100	0	22.56	-1.00	21.56	<=30	Pass
			50	22.56	-1.00	21.56	<=30	Pass
			99	22.56	-1.00	21.56	<=30	Pass
	1745	1	0	23.03	-1.00	22.03	<=30	Pass
			50	23.11	-1.00	22.11	<=30	Pass
			99	23.21	-1.00	22.21	<=30	Pass
		50	0	22.50	-1.00	21.50	<=30	Pass
			25	22.66	-1.00	21.66	<=30	Pass
			50	22.42	-1.00	21.42	<=30	Pass
		100	0	22.33	-1.00	21.33	<=30	Pass
			50	22.33	-1.00	21.33	<=30	Pass
			99	22.33	-1.00	21.33	<=30	Pass
16QAM	1720	1	0	22.58	-1.00	21.58	<=30	Pass
			50	22.63	-1.00	21.63	<=30	Pass
			99	22.60	-1.00	21.60	<=30	Pass
		50	0	21.31	-1.00	20.31	<=30	Pass
			25	21.45	-1.00	20.45	<=30	Pass
			50	21.40	-1.00	20.40	<=30	Pass
		100	0	21.25	-1.00	20.25	<=30	Pass
			50	21.25	-1.00	20.25	<=30	Pass
			99	21.25	-1.00	20.25	<=30	Pass
	1732.5	1	0	23.02	-1.00	22.02	<=30	Pass
			50	22.31	-1.00	21.31	<=30	Pass
			99	22.17	-1.00	21.17	<=30	Pass
		50	0	21.42	-1.00	20.42	<=30	Pass
			25	21.51	-1.00	20.51	<=30	Pass
			50	21.52	-1.00	20.52	<=30	Pass
		100	0	21.42	-1.00	20.42	<=30	Pass
			50	21.42	-1.00	20.42	<=30	Pass
			99	21.42	-1.00	20.42	<=30	Pass
	1745	1	0	22.37	-1.00	21.37	<=30	Pass
			50	22.39	-1.00	21.39	<=30	Pass
			99	22.35	-1.00	21.35	<=30	Pass
		50	0	21.28	-1.00	20.28	<=30	Pass
			25	21.42	-1.00	20.42	<=30	Pass
			50	21.60	-1.00	20.60	<=30	Pass
		100	0	21.43	-1.00	20.43	<=30	Pass
			50	21.43	-1.00	20.43	<=30	Pass
			99	21.43	-1.00	20.43	<=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	3.29	3.090	0.0018	-2.5 to 2.5	Pass
					3.87	-2.418	-0.0014	-2.5 to 2.5	Pass
					4.45	3.133	0.0018	-2.5 to 2.5	Pass
				-30	3.87	-3.777	-0.0022	-2.5 to 2.5	Pass
				-20	3.87	-3.734	-0.0022	-2.5 to 2.5	Pass
				-10	3.87	-6.022	-0.0035	-2.5 to 2.5	Pass
				0	3.87	3.176	0.0019	-2.5 to 2.5	Pass
				10	3.87	0.100	0.0001	-2.5 to 2.5	Pass
				30	3.87	10.214	0.0060	-2.5 to 2.5	Pass
				40	3.87	-2.432	-0.0014	-2.5 to 2.5	Pass
				50	3.87	4.377	0.0026	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.29	4.392	0.0025	-2.5 to 2.5	Pass
					3.87	8.254	0.0048	-2.5 to 2.5	Pass
					4.45	10.157	0.0059	-2.5 to 2.5	Pass
				-30	3.87	15.163	0.0088	-2.5 to 2.5	Pass
				-20	3.87	-7.339	-0.0042	-2.5 to 2.5	Pass
				-10	3.87	4.048	0.0023	-2.5 to 2.5	Pass
				0	3.87	12.131	0.0070	-2.5 to 2.5	Pass
				10	3.87	12.274	0.0071	-2.5 to 2.5	Pass
				30	3.87	2.561	0.0015	-2.5 to 2.5	Pass
				40	3.87	16.022	0.0092	-2.5 to 2.5	Pass
				50	3.87	4.306	0.0025	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.29	12.016	0.0068	-2.5 to 2.5	Pass
					3.87	9.956	0.0057	-2.5 to 2.5	Pass
					4.45	-15.163	-0.0086	-2.5 to 2.5	Pass
				-30	3.87	8.783	0.0050	-2.5 to 2.5	Pass
				-20	3.87	11.745	0.0067	-2.5 to 2.5	Pass
				-10	3.87	-8.054	-0.0046	-2.5 to 2.5	Pass
				0	3.87	10.057	0.0057	-2.5 to 2.5	Pass
				10	3.87	-3.204	-0.0018	-2.5 to 2.5	Pass
				30	3.87	11.859	0.0068	-2.5 to 2.5	Pass
				40	3.87	-3.920	-0.0022	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.29	-2.875	-0.0017	-2.5 to 2.5	Pass
					3.87	2.718	0.0016	-2.5 to 2.5	Pass
					4.45	-2.289	-0.0013	-2.5 to 2.5	Pass
				-30	3.87	13.304	0.0078	-2.5 to 2.5	Pass
				-20	3.87	8.368	0.0049	-2.5 to 2.5	Pass
				-10	3.87	0.515	0.0003	-2.5 to 2.5	Pass
				0	3.87	14.133	0.0083	-2.5 to 2.5	Pass
				10	3.87	14.334	0.0084	-2.5 to 2.5	Pass
				30	3.87	2.246	0.0013	-2.5 to 2.5	Pass
				40	3.87	1.473	0.0009	-2.5 to 2.5	Pass
				50	3.87	-10.386	-0.0061	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.29	11.058	0.0064	-2.5 to 2.5	Pass
					3.87	14.448	0.0083	-2.5 to 2.5	Pass
					4.45	-7.353	-0.0042	-2.5 to 2.5	Pass
				-30	3.87	1.144	0.0007	-2.5 to 2.5	Pass
				-20	3.87	12.174	0.0070	-2.5 to 2.5	Pass
				-10	3.87	11.530	0.0067	-2.5 to 2.5	Pass

				0	3.87	-4.449	-0.0026	-2.5 to 2.5	Pass
				10	3.87	7.668	0.0044	-2.5 to 2.5	Pass
				30	3.87	-0.844	-0.0005	-2.5 to 2.5	Pass
				40	3.87	-7.510	-0.0043	-2.5 to 2.5	Pass
				50	3.87	14.648	0.0085	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.29	10.829	0.0062	-2.5 to 2.5	Pass
					3.87	12.145	0.0069	-2.5 to 2.5	Pass
					4.45	-13.990	-0.0080	-2.5 to 2.5	Pass
				-30	3.87	-1.059	-0.0006	-2.5 to 2.5	Pass
				-20	3.87	-11.501	-0.0066	-2.5 to 2.5	Pass
				-10	3.87	-16.065	-0.0092	-2.5 to 2.5	Pass
				0	3.87	-1.230	-0.0007	-2.5 to 2.5	Pass
				10	3.87	-10.629	-0.0061	-2.5 to 2.5	Pass
				30	3.87	10.529	0.0060	-2.5 to 2.5	Pass
				40	3.87	8.225	0.0047	-2.5 to 2.5	Pass
				50	3.87	-13.204	-0.0075	-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	3.29	2.131	0.0012	-2.5 to 2.5	Pass
					3.87	3.390	0.0020	-2.5 to 2.5	Pass
					4.45	8.626	0.0050	-2.5 to 2.5	Pass
				-30	3.87	4.191	0.0024	-2.5 to 2.5	Pass
				-20	3.87	-1.216	-0.0007	-2.5 to 2.5	Pass
				-10	3.87	15.678	0.0092	-2.5 to 2.5	Pass
				0	3.87	2.918	0.0017	-2.5 to 2.5	Pass
				10	3.87	6.638	0.0039	-2.5 to 2.5	Pass
				30	3.87	6.108	0.0036	-2.5 to 2.5	Pass
				40	3.87	-6.466	-0.0038	-2.5 to 2.5	Pass
	1732.5	15	0	50	3.87	-11.001	-0.0064	-2.5 to 2.5	Pass
				20	3.29	-0.801	-0.0005	-2.5 to 2.5	Pass
					3.87	8.082	0.0047	-2.5 to 2.5	Pass
					4.45	3.119	0.0018	-2.5 to 2.5	Pass
				-30	3.87	1.245	0.0007	-2.5 to 2.5	Pass
				-20	3.87	5.064	0.0029	-2.5 to 2.5	Pass
				-10	3.87	2.117	0.0012	-2.5 to 2.5	Pass
				0	3.87	14.205	0.0082	-2.5 to 2.5	Pass
				10	3.87	9.642	0.0056	-2.5 to 2.5	Pass
				30	3.87	10.672	0.0062	-2.5 to 2.5	Pass
	1753.5	15	0	40	3.87	8.326	0.0048	-2.5 to 2.5	Pass
				50	3.87	-6.237	-0.0036	-2.5 to 2.5	Pass
				20	3.29	8.311	0.0047	-2.5 to 2.5	Pass
					3.87	-11.444	-0.0065	-2.5 to 2.5	Pass
					4.45	-9.656	-0.0055	-2.5 to 2.5	Pass
				-30	3.87	9.069	0.0052	-2.5 to 2.5	Pass
				-20	3.87	3.905	0.0022	-2.5 to 2.5	Pass
				-10	3.87	13.218	0.0075	-2.5 to 2.5	Pass
				0	3.87	-8.698	-0.0050	-2.5 to 2.5	Pass
				10	3.87	11.916	0.0068	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.87	-11.315	-0.0066	-2.5 to 2.5	Pass
					3.87	4.320	0.0025	-2.5 to 2.5	Pass
					4.45	-10.843	-0.0063	-2.5 to 2.5	Pass
				50	3.87	3.762	0.0021	-2.5 to 2.5	Pass

				-30	3.87	14.777	0.0086	-2.5 to 2.5	Pass
				-20	3.87	8.926	0.0052	-2.5 to 2.5	Pass
				-10	3.87	-0.143	-0.0001	-2.5 to 2.5	Pass
				0	3.87	-8.283	-0.0048	-2.5 to 2.5	Pass
				10	3.87	3.691	0.0022	-2.5 to 2.5	Pass
				30	3.87	-4.506	-0.0026	-2.5 to 2.5	Pass
				40	3.87	3.505	0.0020	-2.5 to 2.5	Pass
				50	3.87	3.991	0.0023	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.29	-12.403	-0.0072	-2.5 to 2.5	Pass
					3.87	-9.527	-0.0055	-2.5 to 2.5	Pass
					4.45	12.517	0.0072	-2.5 to 2.5	Pass
				-30	3.87	9.928	0.0057	-2.5 to 2.5	Pass
				-20	3.87	10.829	0.0063	-2.5 to 2.5	Pass
				-10	3.87	-11.072	-0.0064	-2.5 to 2.5	Pass
				0	3.87	3.648	0.0021	-2.5 to 2.5	Pass
				10	3.87	9.913	0.0057	-2.5 to 2.5	Pass
				30	3.87	-5.579	-0.0032	-2.5 to 2.5	Pass
				40	3.87	6.480	0.0037	-2.5 to 2.5	Pass
				50	3.87	12.331	0.0071	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.29	9.556	0.0054	-2.5 to 2.5	Pass
					3.87	-6.452	-0.0037	-2.5 to 2.5	Pass
					4.45	-4.034	-0.0023	-2.5 to 2.5	Pass
				-30	3.87	-13.518	-0.0077	-2.5 to 2.5	Pass
				-20	3.87	-0.544	-0.0003	-2.5 to 2.5	Pass
				-10	3.87	8.368	0.0048	-2.5 to 2.5	Pass
				0	3.87	-2.632	-0.0015	-2.5 to 2.5	Pass
				10	3.87	0.472	0.0003	-2.5 to 2.5	Pass
				30	3.87	9.956	0.0057	-2.5 to 2.5	Pass
				40	3.87	6.852	0.0039	-2.5 to 2.5	Pass
				50	3.87	-10.014	-0.0057	-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	3.29	1.588	0.0009	-2.5 to 2.5	Pass
					3.87	-9.341	-0.0055	-2.5 to 2.5	Pass
					4.45	9.141	0.0053	-2.5 to 2.5	Pass
				-30	3.87	8.497	0.0050	-2.5 to 2.5	Pass
				-20	3.87	12.102	0.0071	-2.5 to 2.5	Pass
				-10	3.87	9.956	0.0058	-2.5 to 2.5	Pass
				0	3.87	5.035	0.0029	-2.5 to 2.5	Pass
				10	3.87	4.992	0.0029	-2.5 to 2.5	Pass
				30	3.87	-1.917	-0.0011	-2.5 to 2.5	Pass
				40	3.87	10.715	0.0063	-2.5 to 2.5	Pass
				50	3.87	16.494	0.0096	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.29	-1.531	-0.0009	-2.5 to 2.5	Pass
					3.87	-7.825	-0.0045	-2.5 to 2.5	Pass
					4.45	0.501	0.0003	-2.5 to 2.5	Pass
				-30	3.87	8.454	0.0049	-2.5 to 2.5	Pass
				-20	3.87	1.917	0.0011	-2.5 to 2.5	Pass
				-10	3.87	-6.509	-0.0038	-2.5 to 2.5	Pass
				0	3.87	-2.890	-0.0017	-2.5 to 2.5	Pass
				10	3.87	2.589	0.0015	-2.5 to 2.5	Pass
				30	3.87	10.071	0.0058	-2.5 to 2.5	Pass
				40	3.87	0.858	0.0005	-2.5 to 2.5	Pass
				50	3.87	5.679	0.0033	-2.5 to 2.5	Pass

	1752.5	25	0	20	3.29	-4.320	-0.0025	-2.5 to 2.5	Pass
					3.87	11.187	0.0064	-2.5 to 2.5	Pass
					4.45	1.273	0.0007	-2.5 to 2.5	Pass
				-30	3.87	-3.462	-0.0020	-2.5 to 2.5	Pass
				-20	3.87	0.672	0.0004	-2.5 to 2.5	Pass
				-10	3.87	-3.991	-0.0023	-2.5 to 2.5	Pass
				0	3.87	4.148	0.0024	-2.5 to 2.5	Pass
				10	3.87	0.801	0.0005	-2.5 to 2.5	Pass
				30	3.87	7.939	0.0045	-2.5 to 2.5	Pass
				40	3.87	6.580	0.0038	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.29	-6.566	-0.0038	-2.5 to 2.5	Pass
					3.87	9.584	0.0056	-2.5 to 2.5	Pass
					4.45	10.185	0.0059	-2.5 to 2.5	Pass
				-30	3.87	7.997	0.0047	-2.5 to 2.5	Pass
				-20	3.87	5.765	0.0034	-2.5 to 2.5	Pass
				-10	3.87	2.589	0.0015	-2.5 to 2.5	Pass
				0	3.87	5.736	0.0033	-2.5 to 2.5	Pass
				10	3.87	1.917	0.0011	-2.5 to 2.5	Pass
				30	3.87	2.303	0.0013	-2.5 to 2.5	Pass
				40	3.87	-0.701	-0.0004	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.29	12.531	0.0072	-2.5 to 2.5	Pass
					3.87	-1.717	-0.0010	-2.5 to 2.5	Pass
					4.45	-3.548	-0.0020	-2.5 to 2.5	Pass
				-30	3.87	-1.230	-0.0007	-2.5 to 2.5	Pass
				-20	3.87	-0.486	-0.0003	-2.5 to 2.5	Pass
				-10	3.87	-7.167	-0.0041	-2.5 to 2.5	Pass
				0	3.87	-3.033	-0.0018	-2.5 to 2.5	Pass
				10	3.87	6.924	0.0040	-2.5 to 2.5	Pass
				30	3.87	-6.638	-0.0038	-2.5 to 2.5	Pass
				40	3.87	-2.089	-0.0012	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.29	7.639	0.0044	-2.5 to 2.5	Pass
					3.87	7.582	0.0043	-2.5 to 2.5	Pass
					4.45	5.293	0.0030	-2.5 to 2.5	Pass
				-30	3.87	-3.262	-0.0019	-2.5 to 2.5	Pass
				-20	3.87	12.188	0.0070	-2.5 to 2.5	Pass
				-10	3.87	19.169	0.0109	-2.5 to 2.5	Pass
				0	3.87	14.663	0.0084	-2.5 to 2.5	Pass
				10	3.87	-0.200	-0.0001	-2.5 to 2.5	Pass
				30	3.87	7.939	0.0045	-2.5 to 2.5	Pass
				40	3.87	4.420	0.0025	-2.5 to 2.5	Pass
				50	3.87	-0.286	-0.0002	-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	3.29	2.904	0.0017	-2.5 to 2.5	Pass
					3.87	5.422	0.0032	-2.5 to 2.5	Pass
					4.45	7.625	0.0044	-2.5 to 2.5	Pass
				-30	3.87	6.738	0.0039	-2.5 to 2.5	Pass
				-20	3.87	3.347	0.0020	-2.5 to 2.5	Pass
				-10	3.87	5.722	0.0033	-2.5 to 2.5	Pass
				0	3.87	13.547	0.0079	-2.5 to 2.5	Pass
				10	3.87	9.527	0.0056	-2.5 to 2.5	Pass

				30	3.87	-0.587	-0.0003	-2.5 to 2.5	Pass
				40	3.87	-2.275	-0.0013	-2.5 to 2.5	Pass
				50	3.87	-2.418	-0.0014	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.29	-0.100	-0.0001	-2.5 to 2.5	Pass
					3.87	4.034	0.0023	-2.5 to 2.5	Pass
					4.45	2.046	0.0012	-2.5 to 2.5	Pass
				-30	3.87	1.659	0.0010	-2.5 to 2.5	Pass
				-20	3.87	4.334	0.0025	-2.5 to 2.5	Pass
				-10	3.87	8.268	0.0048	-2.5 to 2.5	Pass
				0	3.87	2.475	0.0014	-2.5 to 2.5	Pass
				10	3.87	4.191	0.0024	-2.5 to 2.5	Pass
				30	3.87	2.646	0.0015	-2.5 to 2.5	Pass
				40	3.87	5.150	0.0030	-2.5 to 2.5	Pass
				50	3.87	8.168	0.0047	-2.5 to 2.5	Pass
	1750	50	0	20	3.29	2.203	0.0013	-2.5 to 2.5	Pass
					3.87	6.409	0.0037	-2.5 to 2.5	Pass
					4.45	6.866	0.0039	-2.5 to 2.5	Pass
				-30	3.87	3.905	0.0022	-2.5 to 2.5	Pass
				-20	3.87	4.520	0.0026	-2.5 to 2.5	Pass
				-10	3.87	5.250	0.0030	-2.5 to 2.5	Pass
				0	3.87	2.303	0.0013	-2.5 to 2.5	Pass
				10	3.87	6.638	0.0038	-2.5 to 2.5	Pass
				30	3.87	5.293	0.0030	-2.5 to 2.5	Pass
				40	3.87	8.140	0.0047	-2.5 to 2.5	Pass
				50	3.87	2.689	0.0015	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.29	7.482	0.0044	-2.5 to 2.5	Pass
					3.87	2.918	0.0017	-2.5 to 2.5	Pass
					4.45	1.402	0.0008	-2.5 to 2.5	Pass
				-30	3.87	-0.443	-0.0003	-2.5 to 2.5	Pass
				-20	3.87	2.160	0.0013	-2.5 to 2.5	Pass
				-10	3.87	9.356	0.0055	-2.5 to 2.5	Pass
				0	3.87	2.589	0.0015	-2.5 to 2.5	Pass
				10	3.87	5.536	0.0032	-2.5 to 2.5	Pass
				30	3.87	1.259	0.0007	-2.5 to 2.5	Pass
				40	3.87	3.333	0.0019	-2.5 to 2.5	Pass
				50	3.87	3.376	0.0020	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.29	-0.372	-0.0002	-2.5 to 2.5	Pass
					3.87	-0.243	-0.0001	-2.5 to 2.5	Pass
					4.45	4.406	0.0025	-2.5 to 2.5	Pass
				-30	3.87	-3.934	-0.0023	-2.5 to 2.5	Pass
				-20	3.87	9.341	0.0054	-2.5 to 2.5	Pass
				-10	3.87	1.101	0.0006	-2.5 to 2.5	Pass
				0	3.87	-3.033	-0.0018	-2.5 to 2.5	Pass
				10	3.87	-1.874	-0.0011	-2.5 to 2.5	Pass
				30	3.87	1.373	0.0008	-2.5 to 2.5	Pass
				40	3.87	3.691	0.0021	-2.5 to 2.5	Pass
				50	3.87	5.980	0.0035	-2.5 to 2.5	Pass
	1750	50	0	20	3.29	7.310	0.0042	-2.5 to 2.5	Pass
					3.87	5.980	0.0034	-2.5 to 2.5	Pass
					4.45	5.794	0.0033	-2.5 to 2.5	Pass
				-30	3.87	9.513	0.0054	-2.5 to 2.5	Pass
				-20	3.87	5.422	0.0031	-2.5 to 2.5	Pass
				-10	3.87	5.922	0.0034	-2.5 to 2.5	Pass
				0	3.87	3.033	0.0017	-2.5 to 2.5	Pass
				10	3.87	6.609	0.0038	-2.5 to 2.5	Pass
				30	3.87	4.449	0.0025	-2.5 to 2.5	Pass
				40	3.87	7.396	0.0042	-2.5 to 2.5	Pass
				50	3.87	3.333	0.0019	-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	3.29	2.003	0.0012	-2.5 to 2.5	Pass
					3.87	6.537	0.0038	-2.5 to 2.5	Pass
					4.45	7.811	0.0045	-2.5 to 2.5	Pass
				-30	3.87	3.548	0.0021	-2.5 to 2.5	Pass
				-20	3.87	2.933	0.0017	-2.5 to 2.5	Pass
				-10	3.87	1.373	0.0008	-2.5 to 2.5	Pass
				0	3.87	-2.503	-0.0015	-2.5 to 2.5	Pass
				10	3.87	3.848	0.0022	-2.5 to 2.5	Pass
				30	3.87	4.177	0.0024	-2.5 to 2.5	Pass
				40	3.87	2.604	0.0015	-2.5 to 2.5	Pass
				50	3.87	0.958	0.0006	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.29	1.731	0.0010	-2.5 to 2.5	Pass
					3.87	0.644	0.0004	-2.5 to 2.5	Pass
					4.45	3.376	0.0019	-2.5 to 2.5	Pass
				-30	3.87	2.704	0.0016	-2.5 to 2.5	Pass
				-20	3.87	-2.375	-0.0014	-2.5 to 2.5	Pass
				-10	3.87	1.917	0.0011	-2.5 to 2.5	Pass
				0	3.87	-0.272	-0.0002	-2.5 to 2.5	Pass
				10	3.87	3.390	0.0020	-2.5 to 2.5	Pass
				30	3.87	-4.678	-0.0027	-2.5 to 2.5	Pass
				40	3.87	1.559	0.0009	-2.5 to 2.5	Pass
				50	3.87	7.911	0.0046	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.29	0.114	0.0001	-2.5 to 2.5	Pass
					3.87	5.622	0.0032	-2.5 to 2.5	Pass
					4.45	0.029	0.0000	-2.5 to 2.5	Pass
				-30	3.87	-1.073	-0.0006	-2.5 to 2.5	Pass
				-20	3.87	0.286	0.0002	-2.5 to 2.5	Pass
				-10	3.87	4.435	0.0025	-2.5 to 2.5	Pass
				0	3.87	1.416	0.0008	-2.5 to 2.5	Pass
				10	3.87	2.117	0.0012	-2.5 to 2.5	Pass
				30	3.87	-3.247	-0.0019	-2.5 to 2.5	Pass
				40	3.87	4.992	0.0029	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.29	0.501	0.0003	-2.5 to 2.5	Pass
					3.87	-0.043	0.0000	-2.5 to 2.5	Pass
					4.45	-0.286	-0.0002	-2.5 to 2.5	Pass
				-30	3.87	3.319	0.0019	-2.5 to 2.5	Pass
				-20	3.87	-0.515	-0.0003	-2.5 to 2.5	Pass
				-10	3.87	1.459	0.0008	-2.5 to 2.5	Pass
				0	3.87	0.086	0.0001	-2.5 to 2.5	Pass
				10	3.87	-1.330	-0.0008	-2.5 to 2.5	Pass
				30	3.87	3.018	0.0018	-2.5 to 2.5	Pass
				40	3.87	-0.186	-0.0001	-2.5 to 2.5	Pass
				50	3.87	-1.602	-0.0009	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.29	3.862	0.0022	-2.5 to 2.5	Pass
					3.87	2.532	0.0015	-2.5 to 2.5	Pass
					4.45	8.197	0.0047	-2.5 to 2.5	Pass
				-30	3.87	5.336	0.0031	-2.5 to 2.5	Pass
				-20	3.87	2.475	0.0014	-2.5 to 2.5	Pass
				-10	3.87	3.347	0.0019	-2.5 to 2.5	Pass
				0	3.87	0.873	0.0005	-2.5 to 2.5	Pass
				10	3.87	3.304	0.0019	-2.5 to 2.5	Pass
				30	3.87	1.874	0.0011	-2.5 to 2.5	Pass
				40	3.87	-2.089	-0.0012	-2.5 to 2.5	Pass
				50	3.87	-0.601	-0.0003	-2.5 to 2.5	Pass

	1747.5	75	0	20	3.29	4.420	0.0025	-2.5 to 2.5	Pass
					3.87	4.563	0.0026	-2.5 to 2.5	Pass
					4.45	0.029	0.0000	-2.5 to 2.5	Pass
				-30	3.87	5.608	0.0032	-2.5 to 2.5	Pass
				-20	3.87	7.839	0.0045	-2.5 to 2.5	Pass
				-10	3.87	0.615	0.0004	-2.5 to 2.5	Pass
				0	3.87	0.401	0.0002	-2.5 to 2.5	Pass
				10	3.87	1.903	0.0011	-2.5 to 2.5	Pass
				30	3.87	0.029	0.0000	-2.5 to 2.5	Pass
				40	3.87	1.631	0.0009	-2.5 to 2.5	Pass
				50	3.87	-0.930	-0.0005	-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	3.29	-0.958	-0.0006	-2.5 to 2.5	Pass
					3.87	0.658	0.0004	-2.5 to 2.5	Pass
					4.45	3.376	0.0020	-2.5 to 2.5	Pass
				-30	3.87	0.386	0.0002	-2.5 to 2.5	Pass
				-20	3.87	0.787	0.0005	-2.5 to 2.5	Pass
				-10	3.87	9.141	0.0053	-2.5 to 2.5	Pass
				0	3.87	1.273	0.0007	-2.5 to 2.5	Pass
				10	3.87	0.143	0.0001	-2.5 to 2.5	Pass
				30	3.87	2.203	0.0013	-2.5 to 2.5	Pass
				40	3.87	2.389	0.0014	-2.5 to 2.5	Pass
				50	3.87	-1.616	-0.0009	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.29	-0.401	-0.0002	-2.5 to 2.5	Pass
					3.87	6.452	0.0037	-2.5 to 2.5	Pass
					4.45	5.937	0.0034	-2.5 to 2.5	Pass
				-30	3.87	4.478	0.0026	-2.5 to 2.5	Pass
				-20	3.87	3.819	0.0022	-2.5 to 2.5	Pass
				-10	3.87	3.762	0.0022	-2.5 to 2.5	Pass
				0	3.87	-2.847	-0.0016	-2.5 to 2.5	Pass
				10	3.87	-1.173	-0.0007	-2.5 to 2.5	Pass
				30	3.87	1.416	0.0008	-2.5 to 2.5	Pass
				40	3.87	8.898	0.0051	-2.5 to 2.5	Pass
				50	3.87	2.718	0.0016	-2.5 to 2.5	Pass
	1745	100	0	20	3.29	5.007	0.0029	-2.5 to 2.5	Pass
					3.87	2.789	0.0016	-2.5 to 2.5	Pass
					4.45	4.120	0.0024	-2.5 to 2.5	Pass
				-30	3.87	4.034	0.0023	-2.5 to 2.5	Pass
				-20	3.87	8.583	0.0049	-2.5 to 2.5	Pass
				-10	3.87	0.744	0.0004	-2.5 to 2.5	Pass
				0	3.87	-4.678	-0.0027	-2.5 to 2.5	Pass
				10	3.87	-4.978	-0.0029	-2.5 to 2.5	Pass
				30	3.87	-3.462	-0.0020	-2.5 to 2.5	Pass
				40	3.87	6.166	0.0035	-2.5 to 2.5	Pass
				50	3.87	-3.948	-0.0023	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.29	-2.360	-0.0014	-2.5 to 2.5	Pass
					3.87	1.645	0.0010	-2.5 to 2.5	Pass
					4.45	4.992	0.0029	-2.5 to 2.5	Pass
				-30	3.87	0.057	0.0000	-2.5 to 2.5	Pass
				-20	3.87	-1.273	-0.0007	-2.5 to 2.5	Pass
				-10	3.87	0.000	0.0000	-2.5 to 2.5	Pass
				0	3.87	1.960	0.0011	-2.5 to 2.5	Pass
				10	3.87	1.817	0.0011	-2.5 to 2.5	Pass

				30	3.87	-5.236	-0.0030	-2.5 to 2.5	Pass
				40	3.87	-5.436	-0.0032	-2.5 to 2.5	Pass
				50	3.87	-6.566	-0.0038	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.29	-1.545	-0.0009	-2.5 to 2.5	Pass
					3.87	3.033	0.0018	-2.5 to 2.5	Pass
					4.45	9.241	0.0053	-2.5 to 2.5	Pass
				-30	3.87	7.968	0.0046	-2.5 to 2.5	Pass
				-20	3.87	4.935	0.0028	-2.5 to 2.5	Pass
				-10	3.87	4.377	0.0025	-2.5 to 2.5	Pass
				0	3.87	4.120	0.0024	-2.5 to 2.5	Pass
				10	3.87	5.264	0.0030	-2.5 to 2.5	Pass
				30	3.87	3.419	0.0020	-2.5 to 2.5	Pass
				40	3.87	0.873	0.0005	-2.5 to 2.5	Pass
				50	3.87	3.462	0.0020	-2.5 to 2.5	Pass
	1745	100	0	20	3.29	3.905	0.0022	-2.5 to 2.5	Pass
					3.87	1.516	0.0009	-2.5 to 2.5	Pass
					4.45	9.370	0.0054	-2.5 to 2.5	Pass
				-30	3.87	5.980	0.0034	-2.5 to 2.5	Pass
				-20	3.87	6.266	0.0036	-2.5 to 2.5	Pass
				-10	3.87	5.207	0.0030	-2.5 to 2.5	Pass
				0	3.87	0.844	0.0005	-2.5 to 2.5	Pass
				10	3.87	6.852	0.0039	-2.5 to 2.5	Pass
				30	3.87	4.706	0.0027	-2.5 to 2.5	Pass
				40	3.87	0.114	0.0001	-2.5 to 2.5	Pass
				50	3.87	-2.217	-0.0013	-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

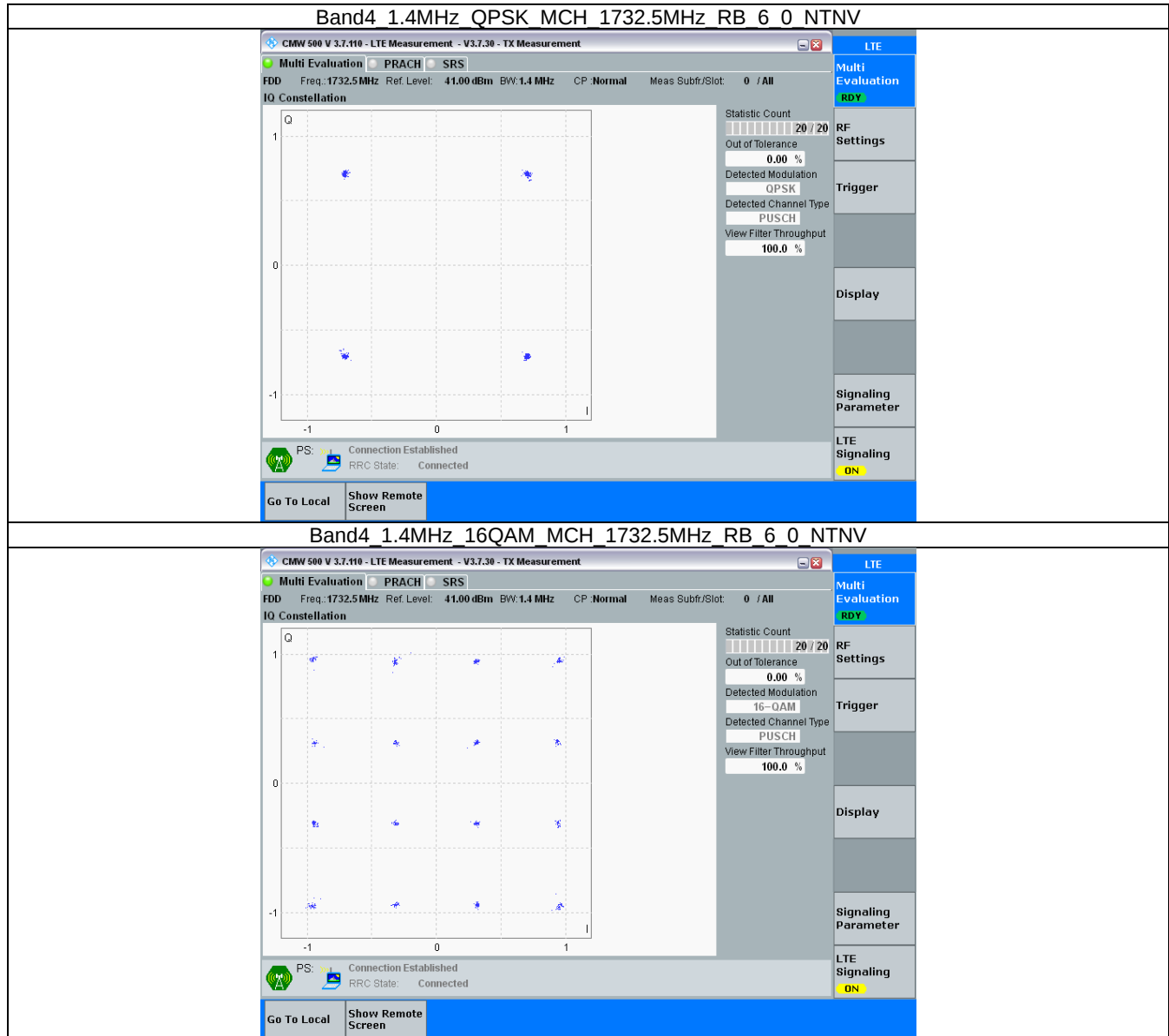
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

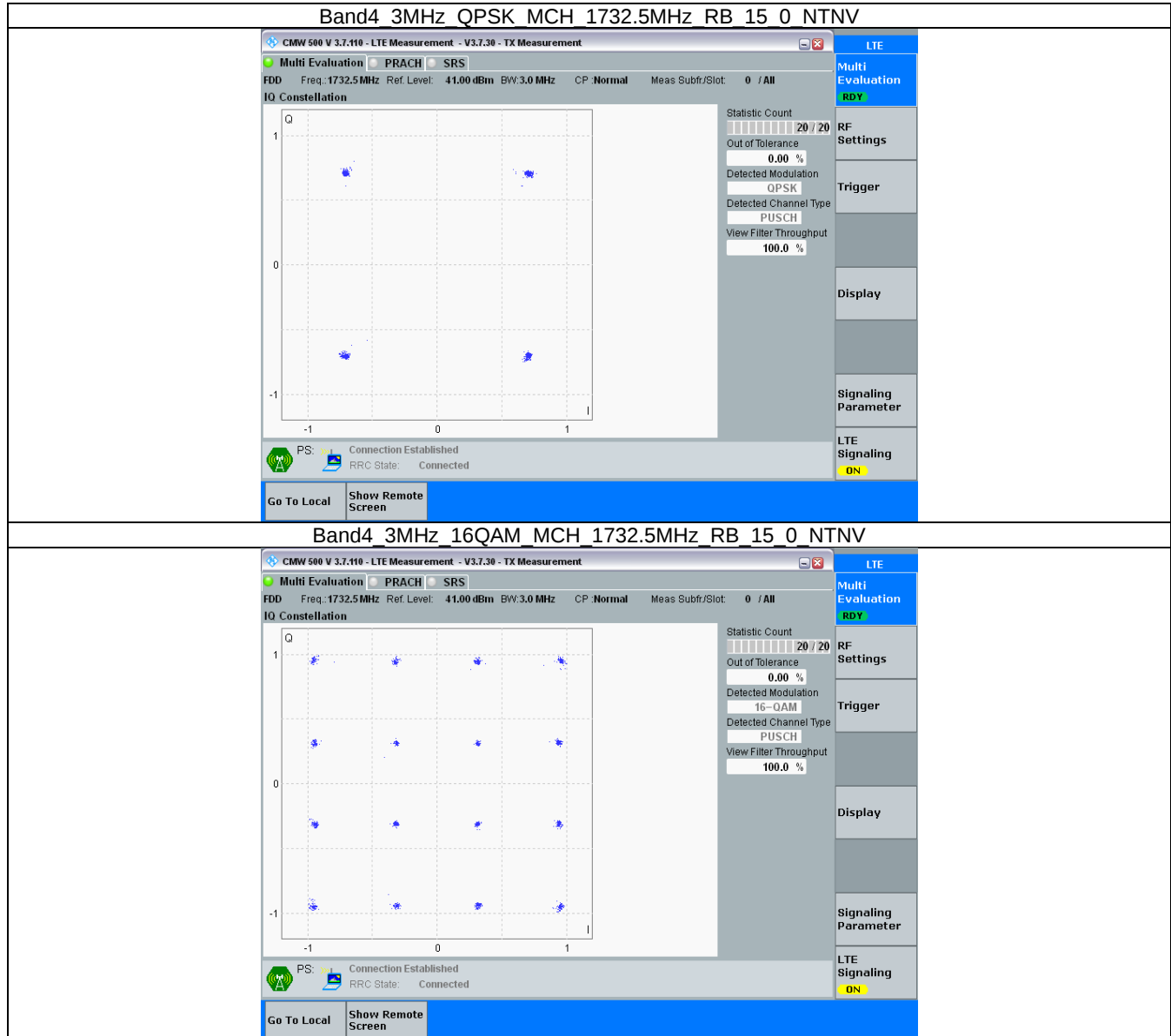
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

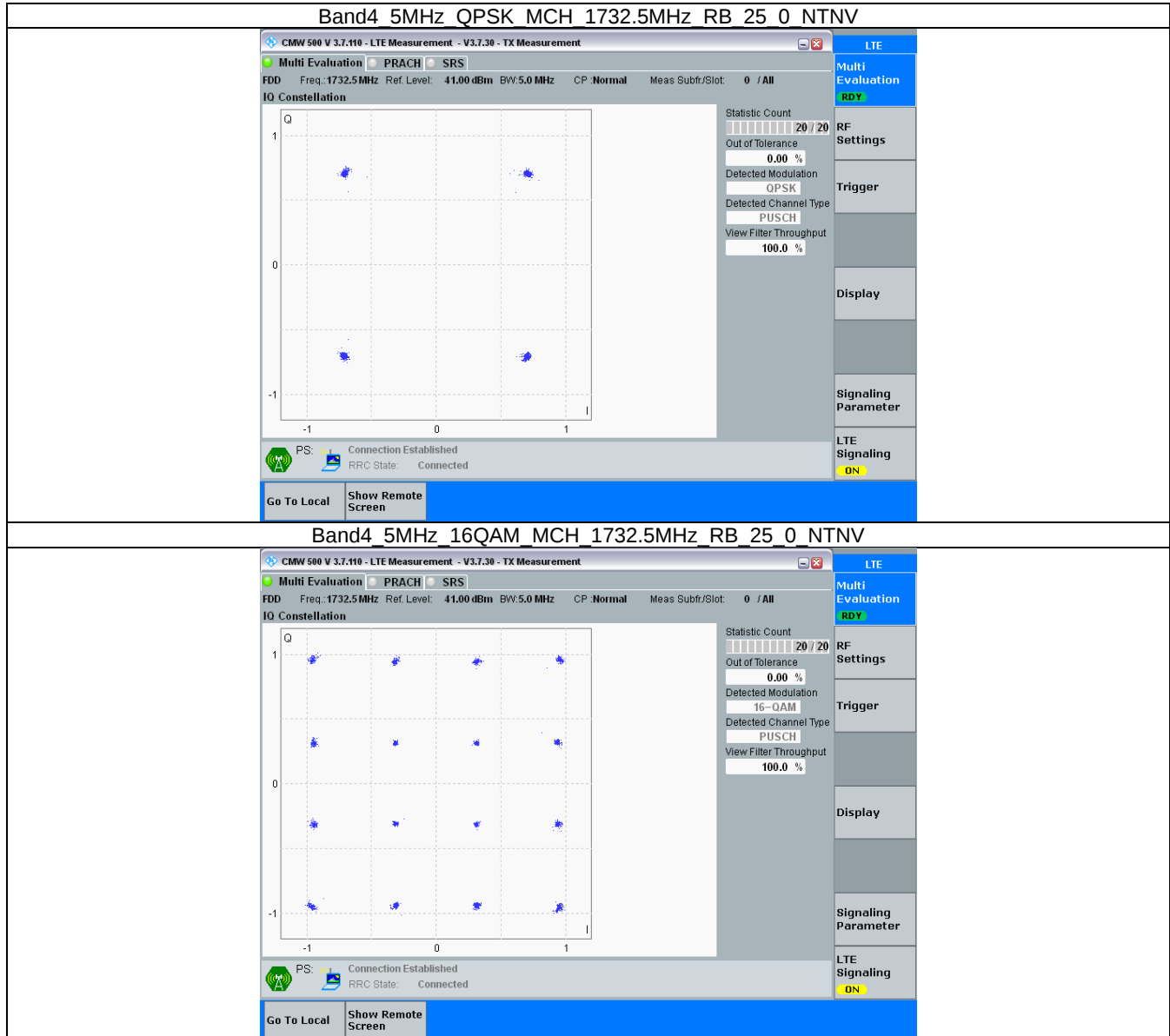
3.2.1 B4_1.4MHz



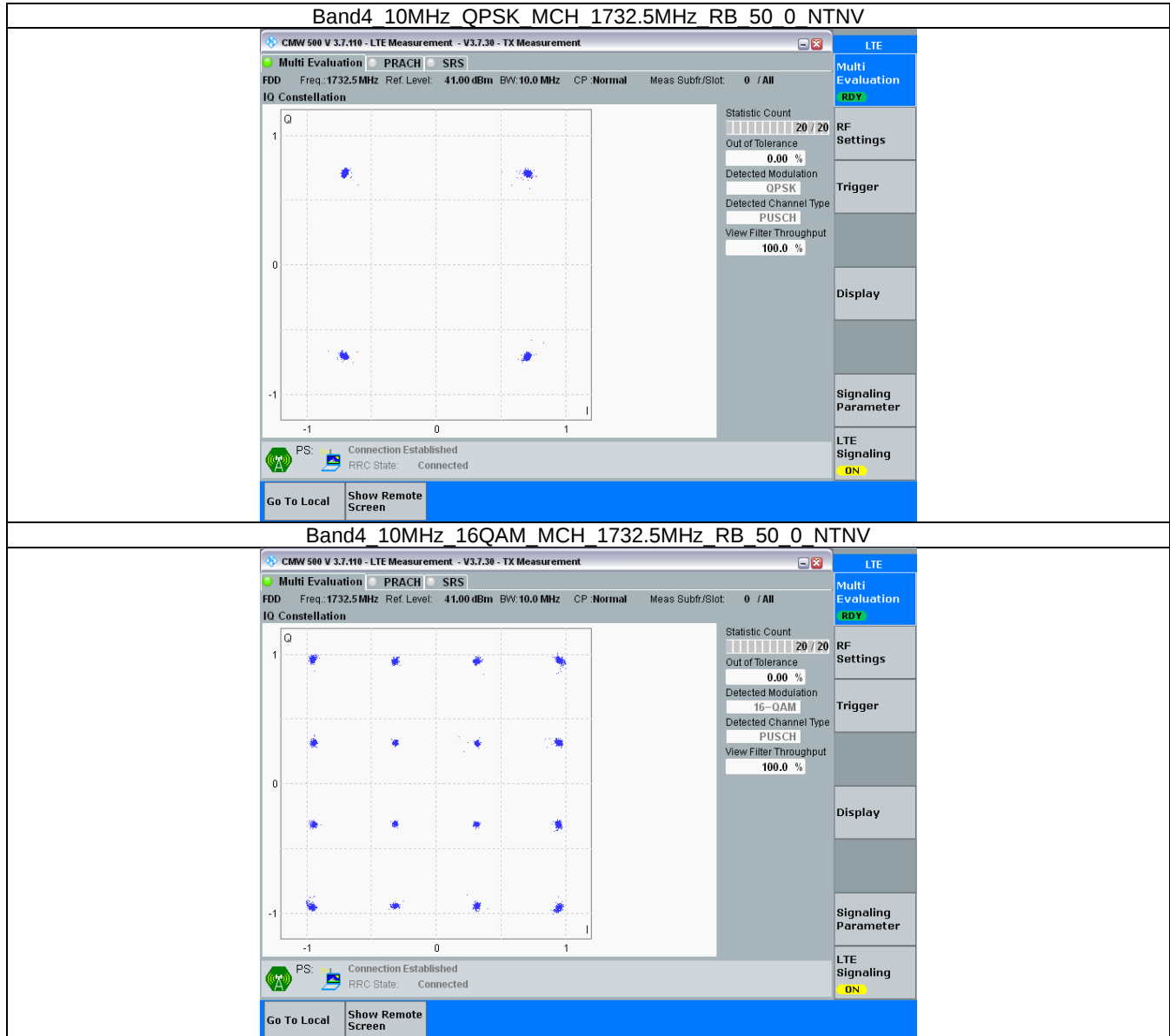
3.2.2 B4_3MHz



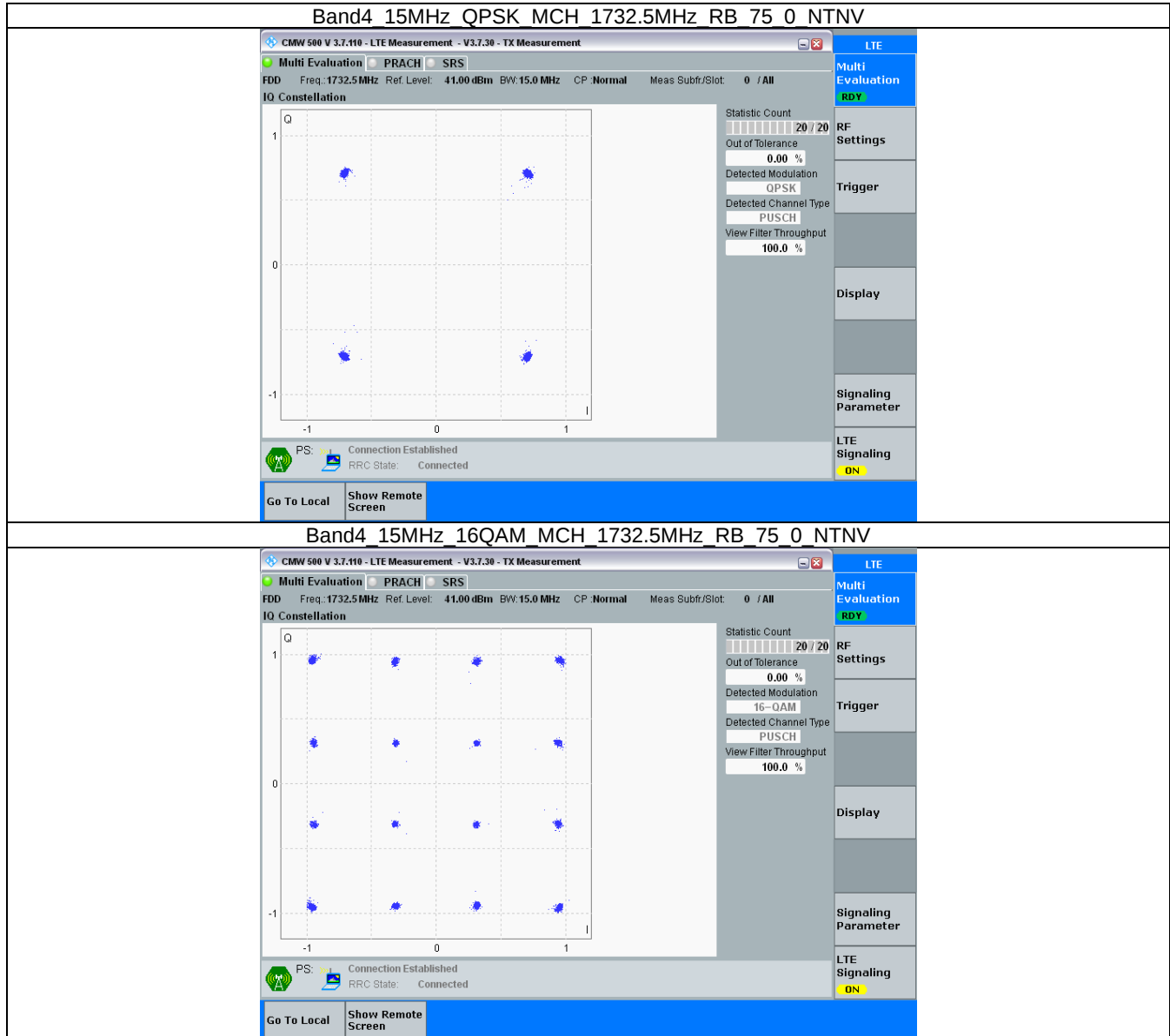
3.2.3 B4_5MHz



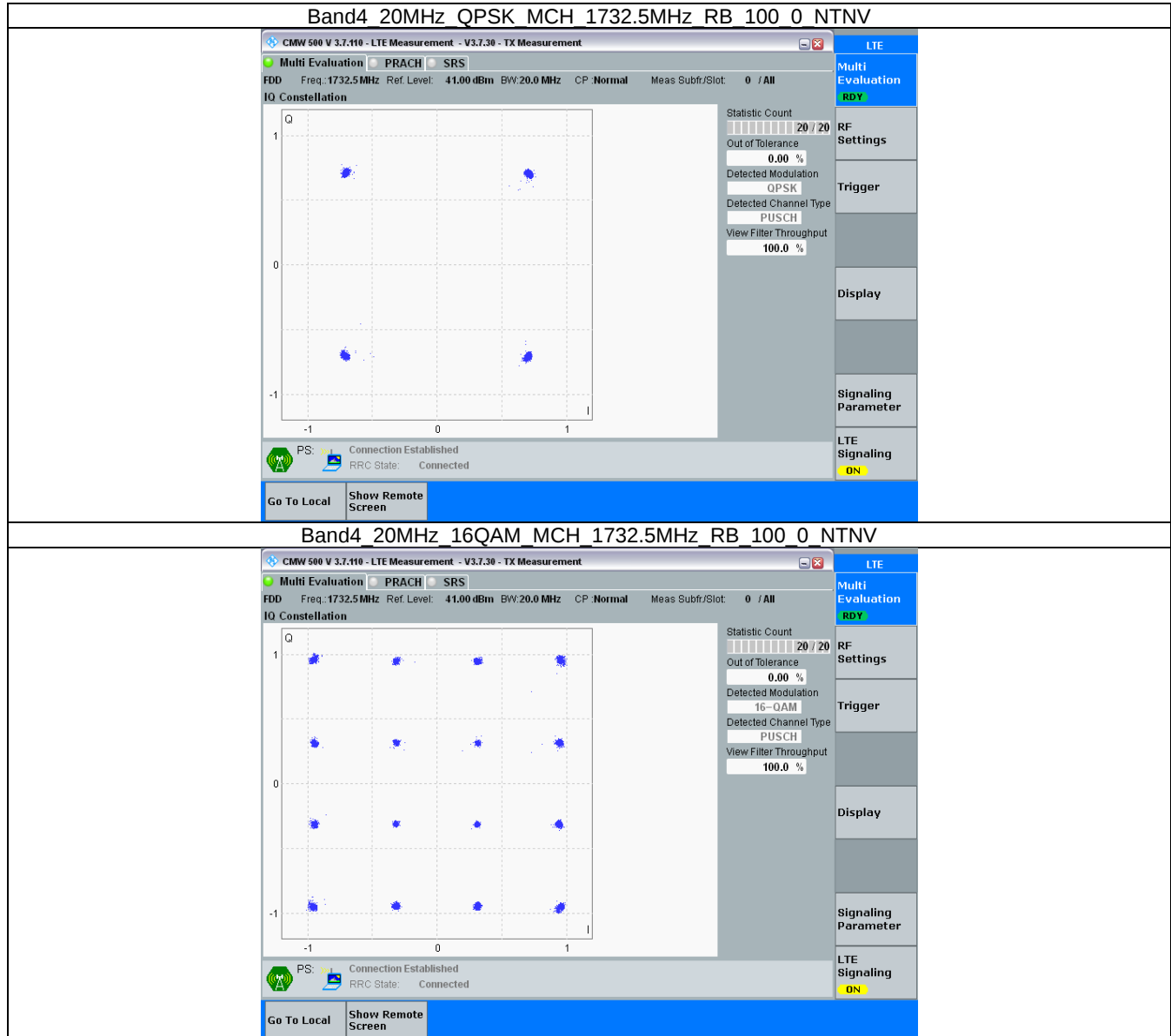
3.2.4 B4_10MHz



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 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.111	/	Pass
		1732.5	6	0	1.107	/	Pass
		1754.3	6	0	1.110	/	Pass
	16QAM	1710.7	6	0	1.109	/	Pass
		1732.5	6	0	1.103	/	Pass
		1754.3	6	0	1.116	/	Pass
3	QPSK	1711.5	15	0	2.733	/	Pass
		1732.5	15	0	2.746	/	Pass
		1753.5	15	0	2.736	/	Pass
	16QAM	1711.5	15	0	2.723	/	Pass
		1732.5	15	0	2.726	/	Pass
		1753.5	15	0	2.731	/	Pass
5	QPSK	1712.5	25	0	4.541	/	Pass
		1732.5	25	0	4.533	/	Pass
		1752.5	25	0	4.556	/	Pass
	16QAM	1712.5	25	0	4.544	/	Pass
		1732.5	25	0	4.571	/	Pass
		1752.5	25	0	4.535	/	Pass
10	QPSK	1715	50	0	9.048	/	Pass
		1732.5	50	0	9.059	/	Pass
		1750	50	0	9.067	/	Pass
	16QAM	1715	50	0	9.032	/	Pass
		1732.5	50	0	9.039	/	Pass
		1750	50	0	9.075	/	Pass
15	QPSK	1717.5	75	0	13.546	/	Pass
		1732.5	75	0	13.579	/	Pass
		1747.5	75	0	13.576	/	Pass
	16QAM	1717.5	75	0	13.594	/	Pass
		1732.5	75	0	13.640	/	Pass
		1747.5	75	0	13.571	/	Pass
20	QPSK	1720	100	0	18.089	/	Pass
		1732.5	100	0	18.160	/	Pass
		1745	100	0	18.097	/	Pass
	16QAM	1720	100	0	18.069	/	Pass
		1732.5	100	0	18.118	/	Pass
		1745	100	0	18.129	/	Pass

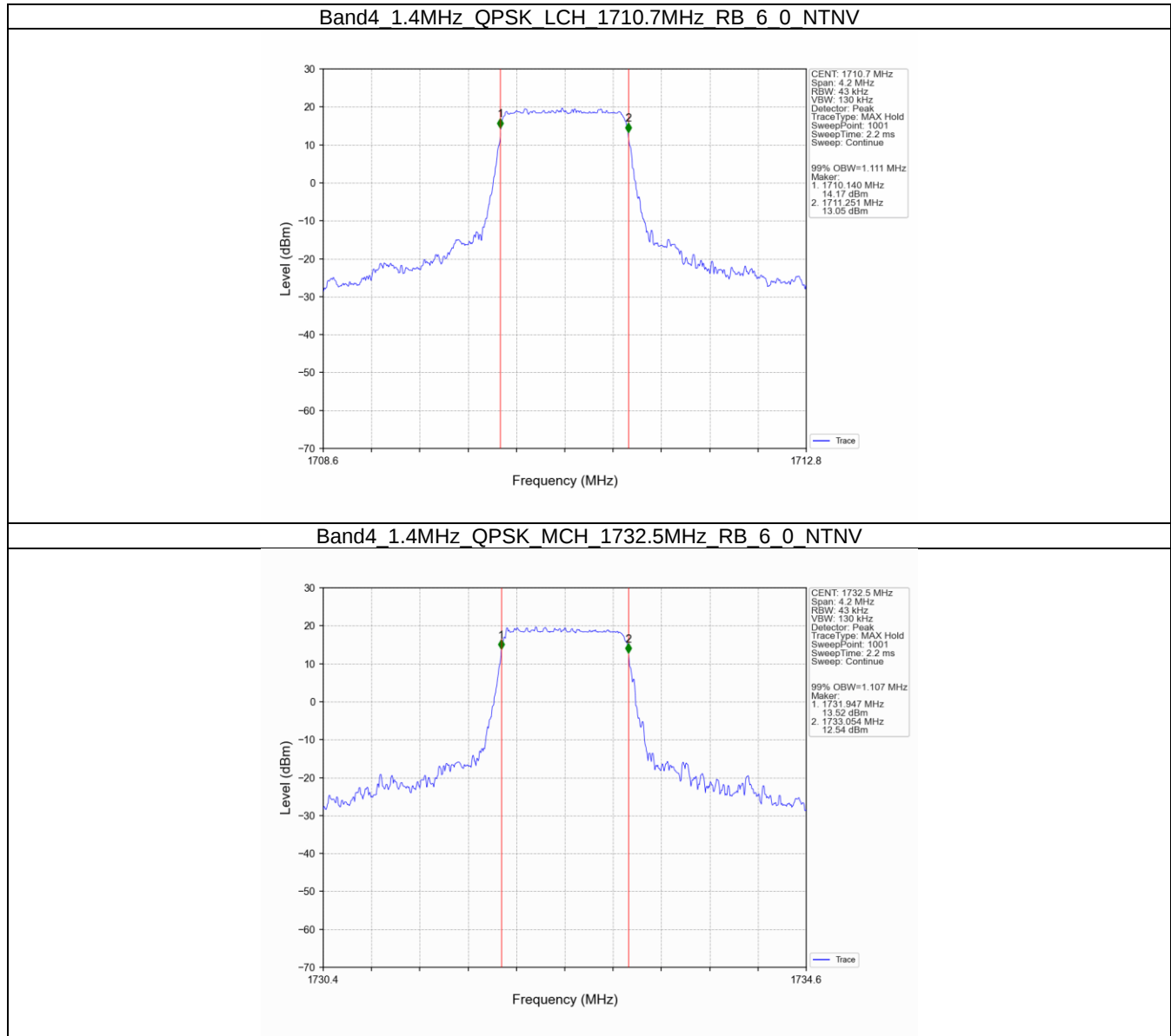
4.1.2 Band4_XDB

Band: 4 / NTN							
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	1.347	/	Pass
		1754.3	6	0	1.320	/	Pass
	16QAM	1710.7	6	0	1.336	/	Pass
		1732.5	6	0	1.309	/	Pass
		1754.3	6	0	1.342	/	Pass
3	QPSK	1711.5	15	0	3.020	/	Pass

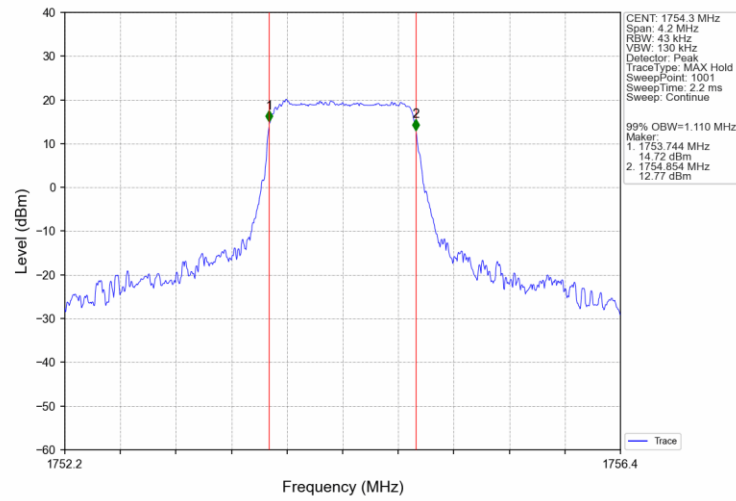
	16QAM	1732.5	15	0	3.012	/	Pass
		1753.5	15	0	3.015	/	Pass
		1711.5	15	0	3.027	/	Pass
		1732.5	15	0	3.015	/	Pass
		1753.5	15	0	2.990	/	Pass
5	QPSK	1712.5	25	0	5.090	/	Pass
		1732.5	25	0	5.025	/	Pass
		1752.5	25	0	5.058	/	Pass
	16QAM	1712.5	25	0	5.076	/	Pass
		1732.5	25	0	5.045	/	Pass
		1752.5	25	0	5.066	/	Pass
10	QPSK	1715	50	0	9.958	/	Pass
		1732.5	50	0	9.946	/	Pass
		1750	50	0	10.034	/	Pass
	16QAM	1715	50	0	9.918	/	Pass
		1732.5	50	0	9.879	/	Pass
		1750	50	0	10.012	/	Pass
15	QPSK	1717.5	75	0	14.896	/	Pass
		1732.5	75	0	15.074	/	Pass
		1747.5	75	0	15.022	/	Pass
	16QAM	1717.5	75	0	14.875	/	Pass
		1732.5	75	0	14.962	/	Pass
		1747.5	75	0	14.974	/	Pass
20	QPSK	1720	100	0	19.701	/	Pass
		1732.5	100	0	19.661	/	Pass
		1745	100	0	19.760	/	Pass
	16QAM	1720	100	0	19.734	/	Pass
		1732.5	100	0	19.613	/	Pass
		1745	100	0	19.738	/	Pass

4.2 Test Graph

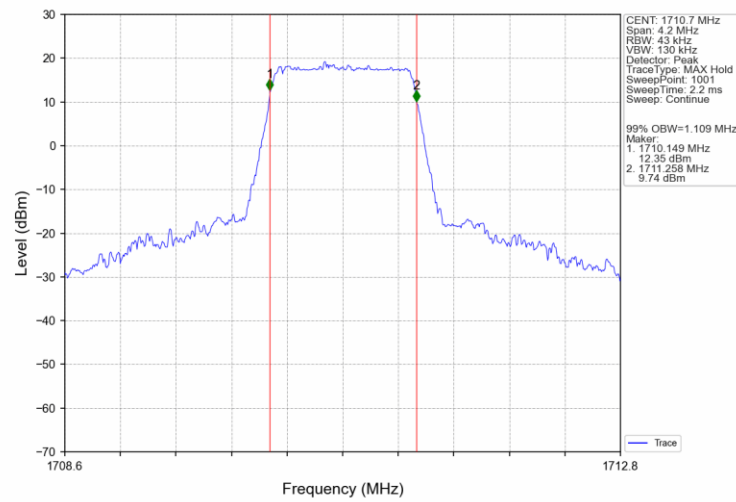
4.2.1 Band4_OBW



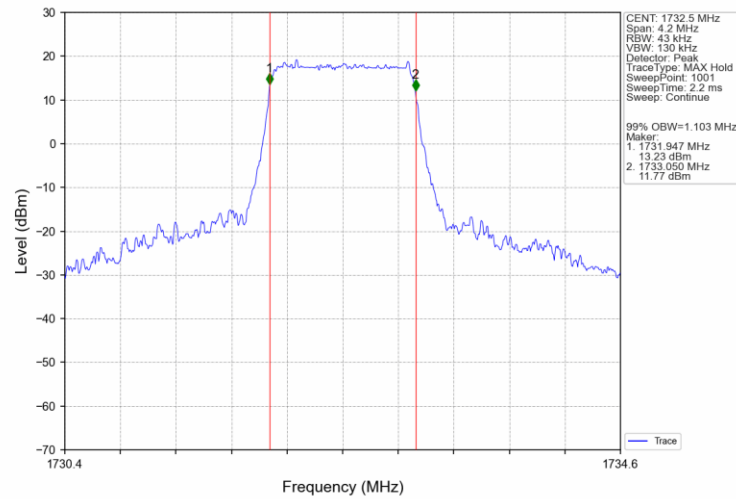
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTV



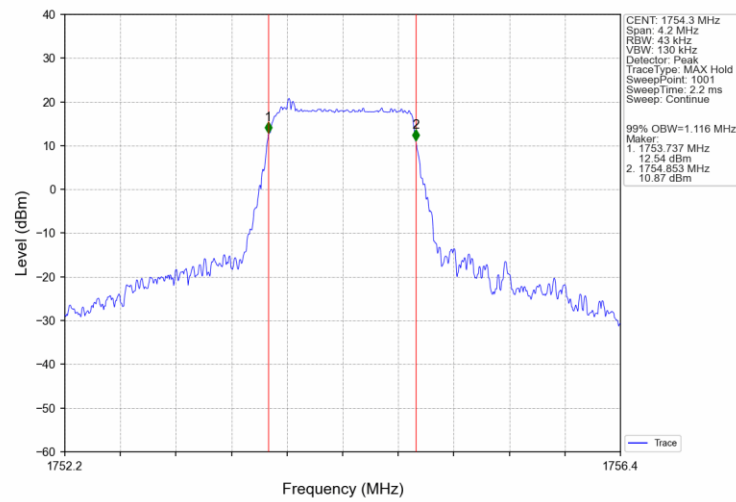
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTV



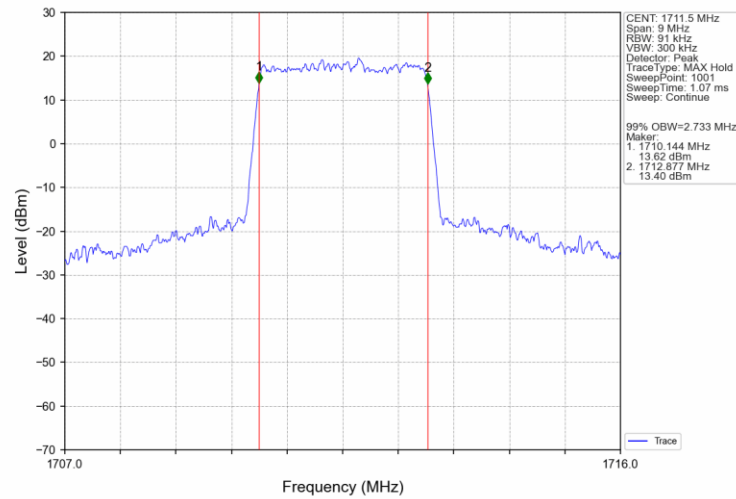
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



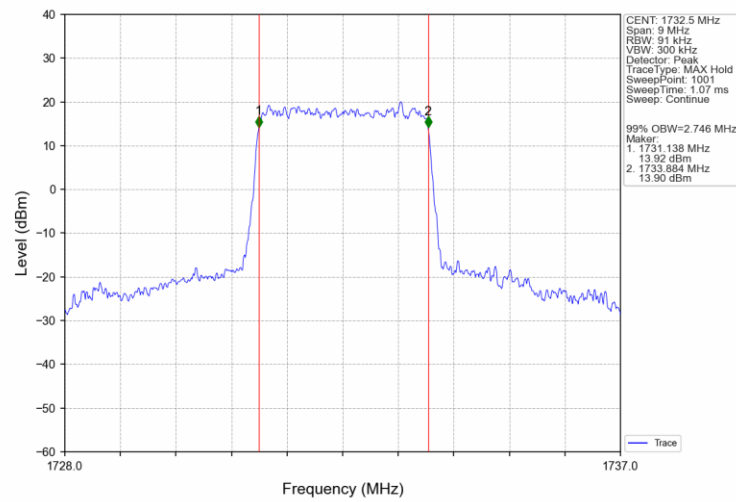
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



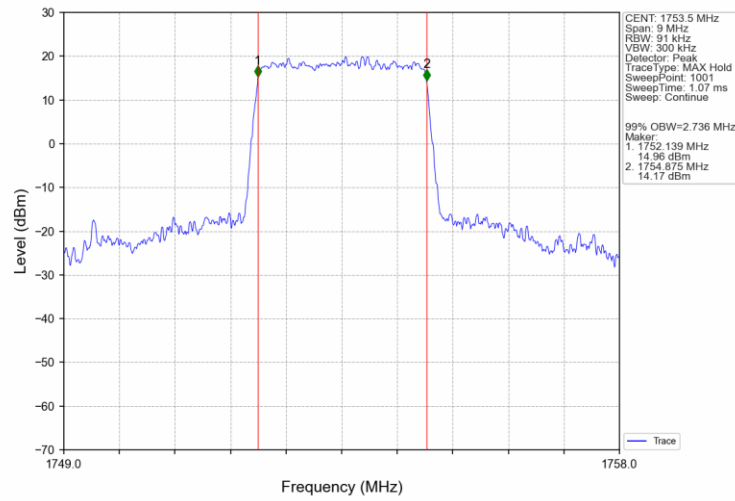
Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTV



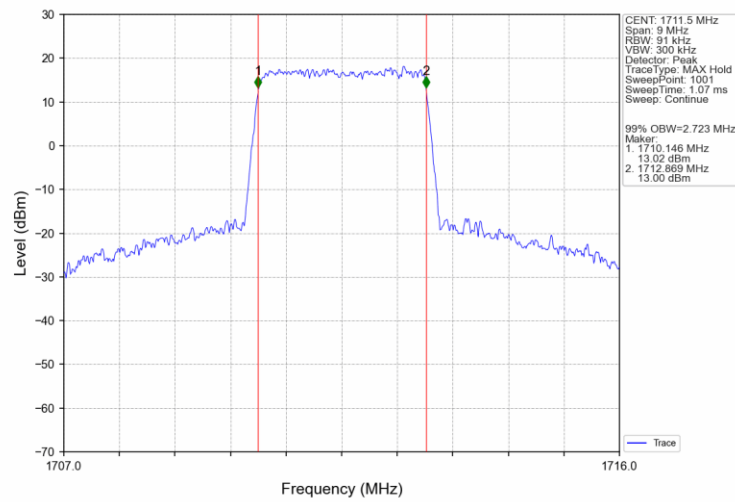
Band4 3MHz QPSK MCH 1732.5MHz RB 15 0 NTV



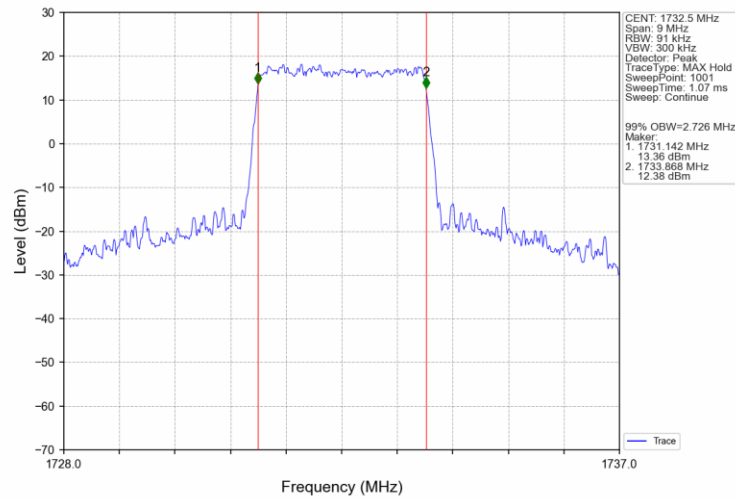
Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTV



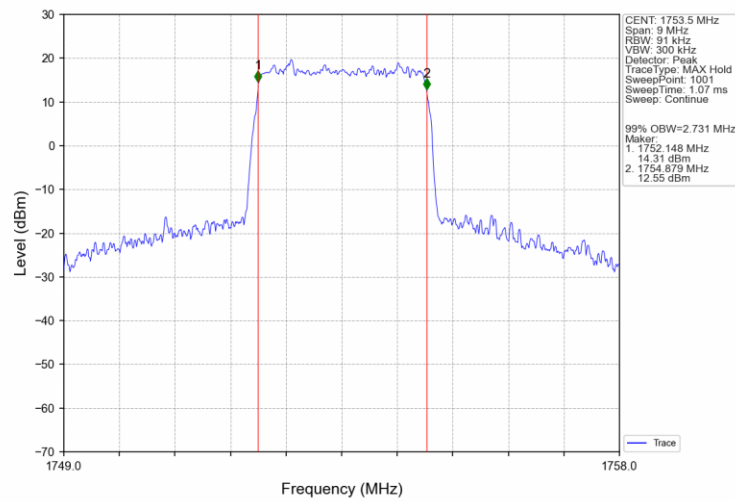
Band4 3MHz 16QAM LCH 1711.5MHz RB 15 0 NTV



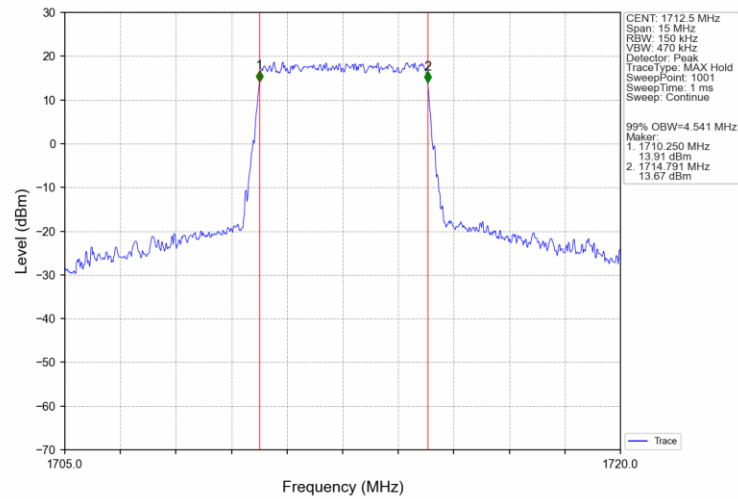
Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTNV



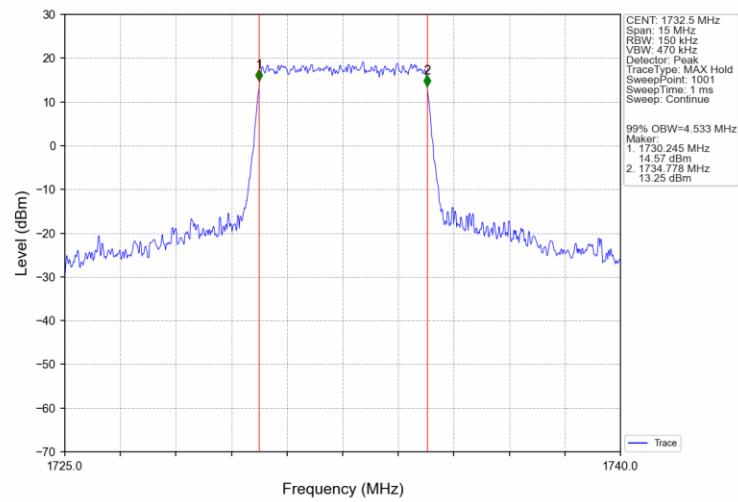
Band4 3MHz 16QAM HCH 1753.5MHz RB 15 0 NTNV



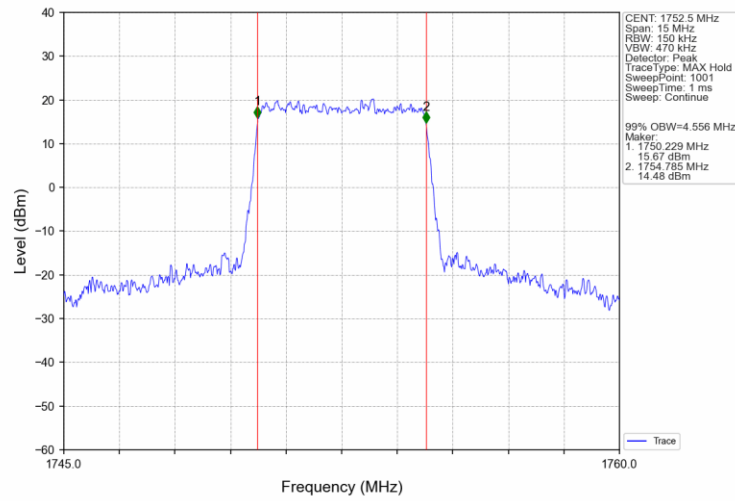
Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTV



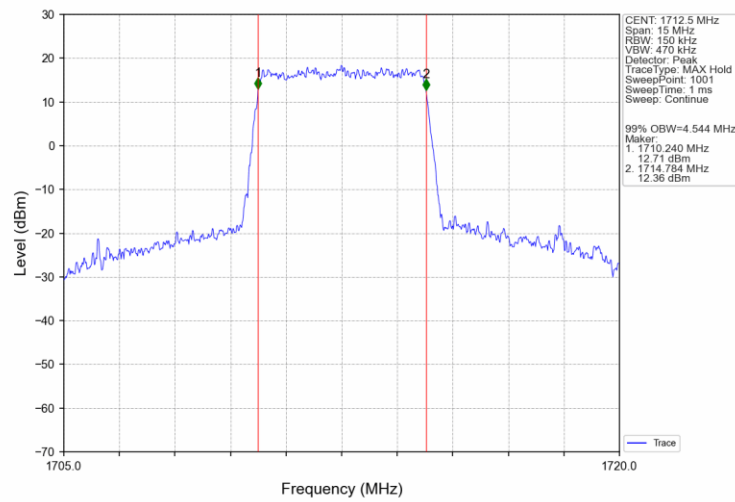
Band4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTV



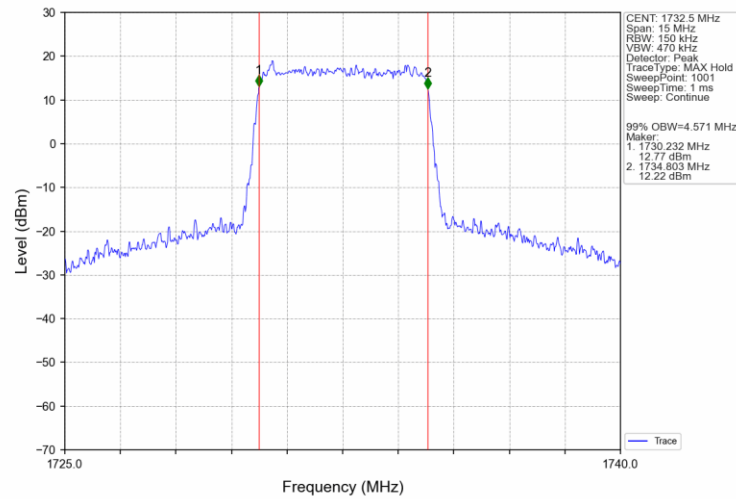
Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTV



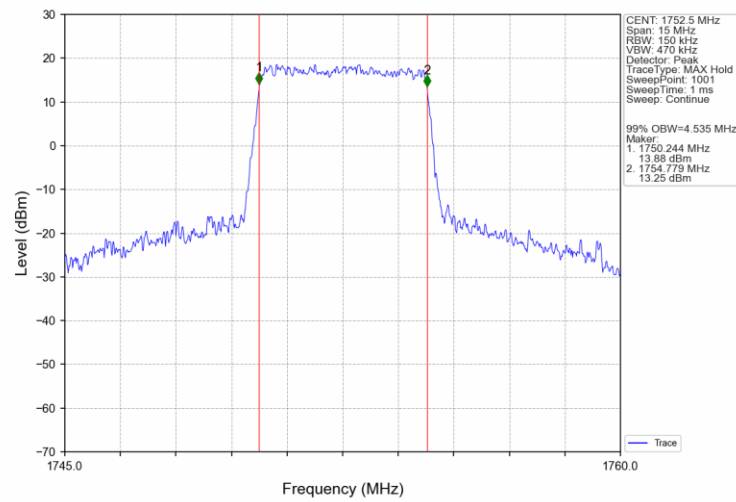
Band4 5MHz 16QAM LCH 1712.5MHz RB 25 0 NTV



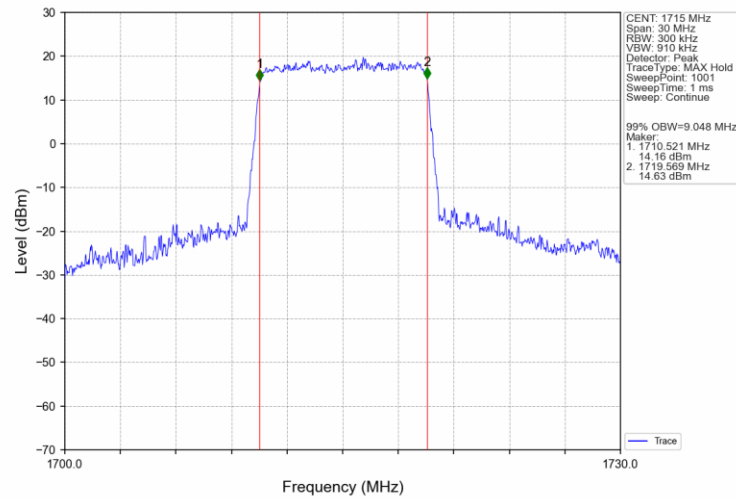
Band4 5MHz 16QAM MCH 1732.5MHz RB 25 0 NTN



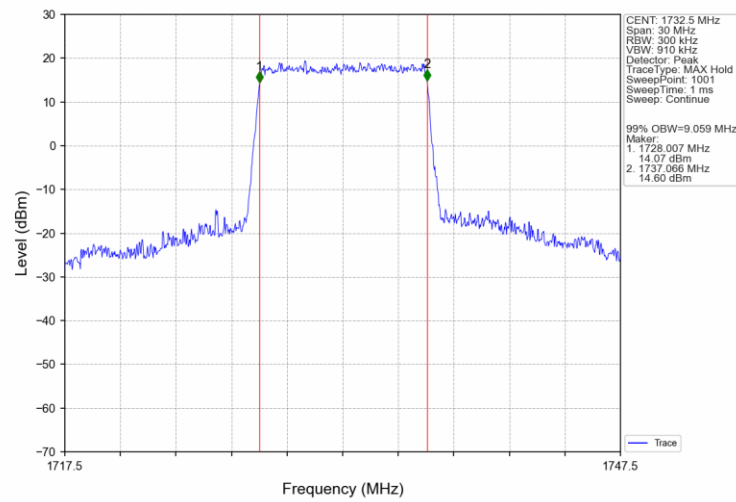
Band4 5MHz 16QAM HCH 1752.5MHz RB 25 0 NTN



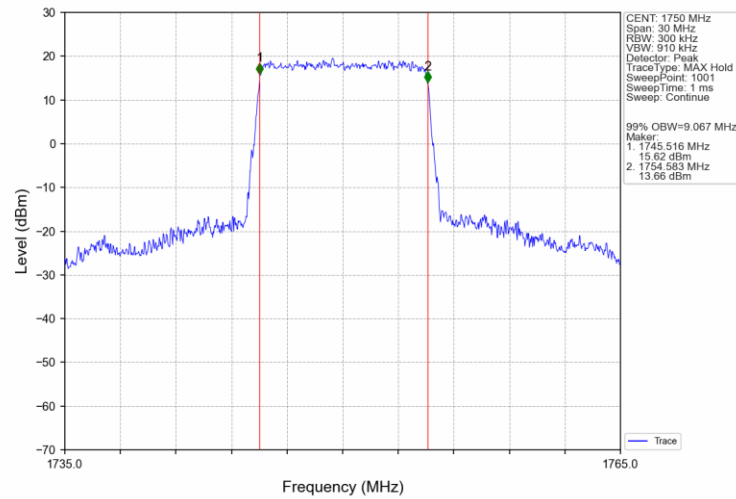
Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTNV



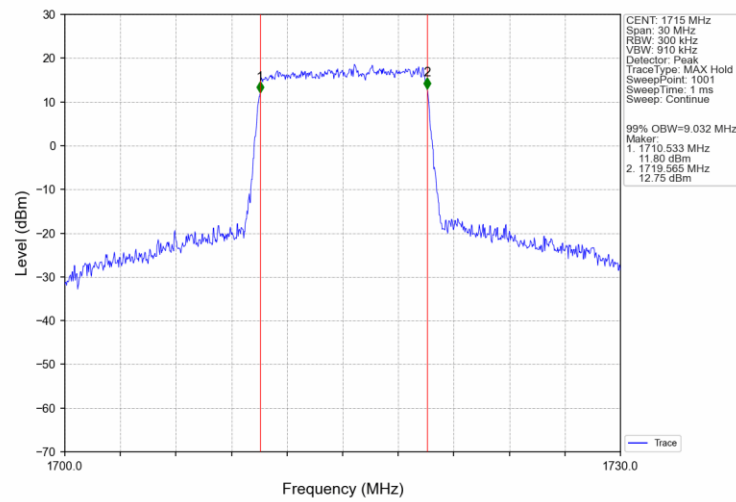
Band4 10MHz QPSK MCH 1732.5MHz RB 50 0 NTNV



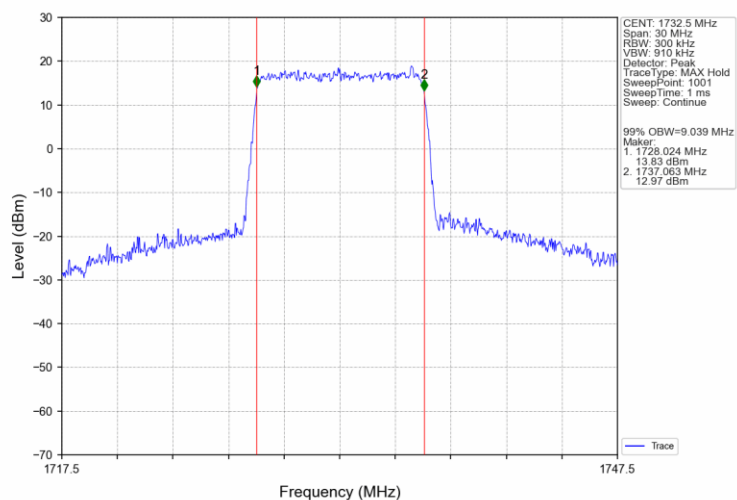
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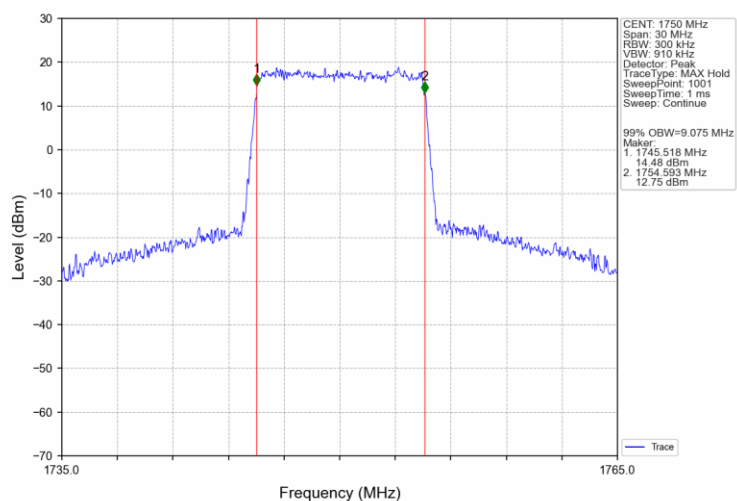
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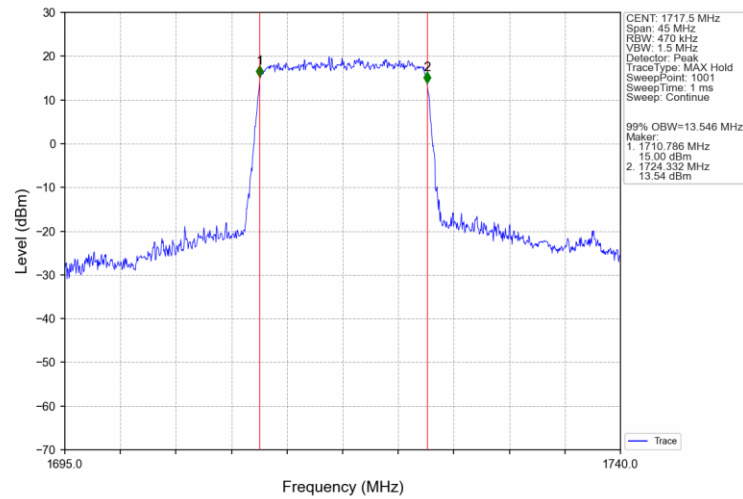
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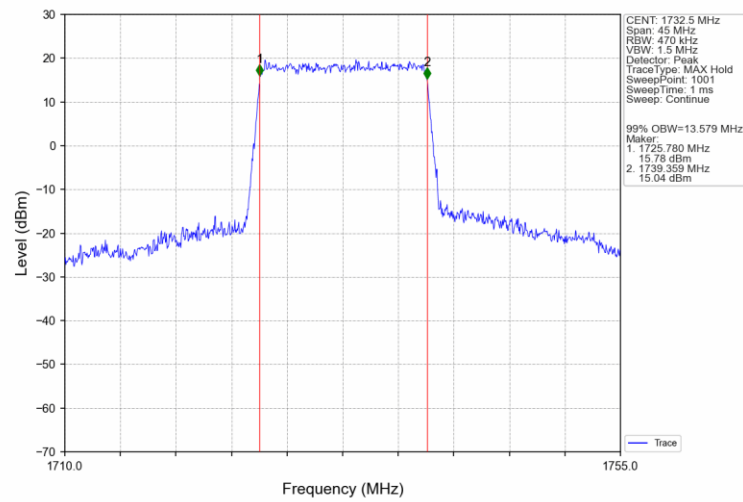
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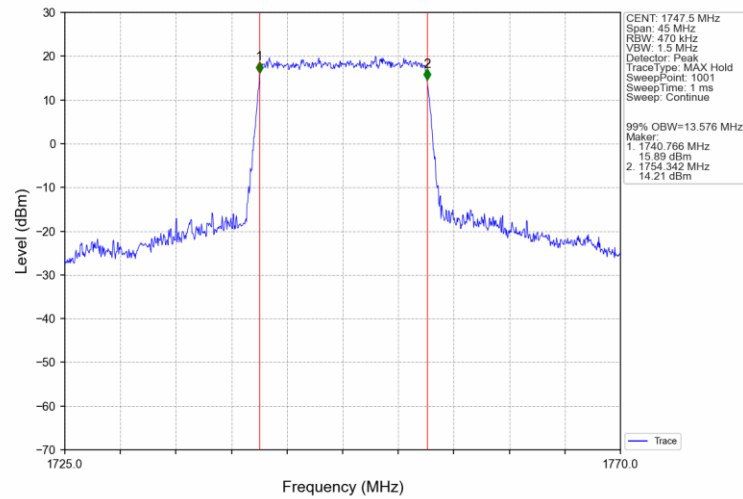
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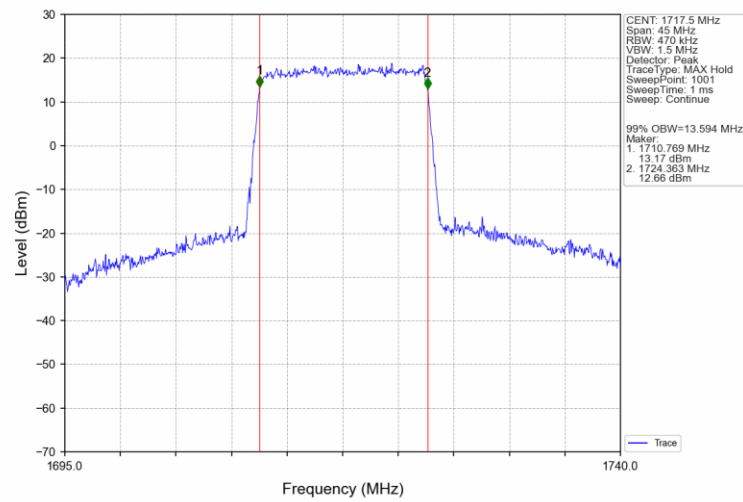
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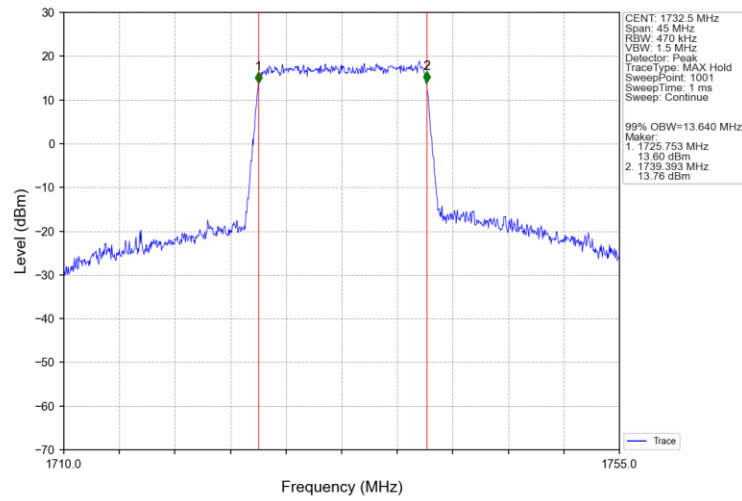
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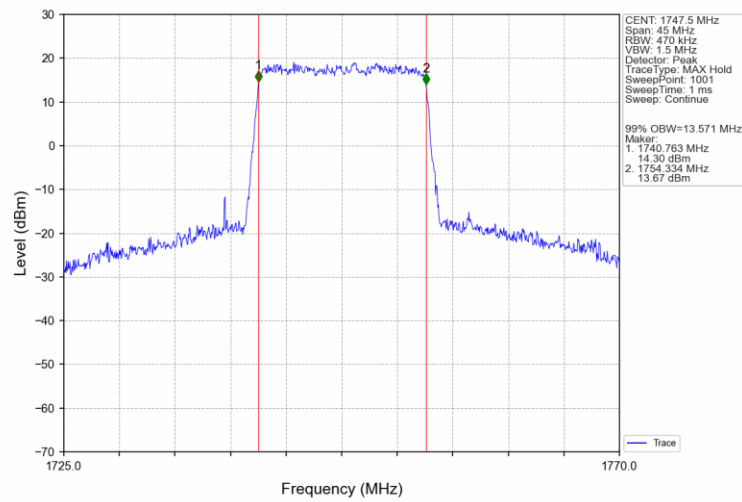
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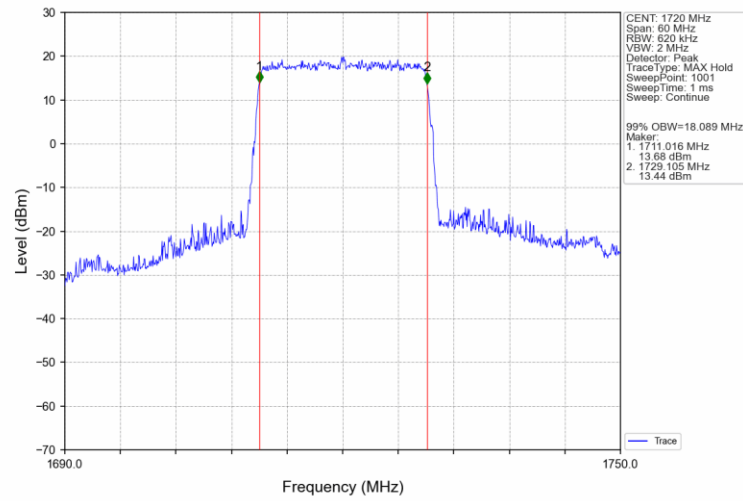
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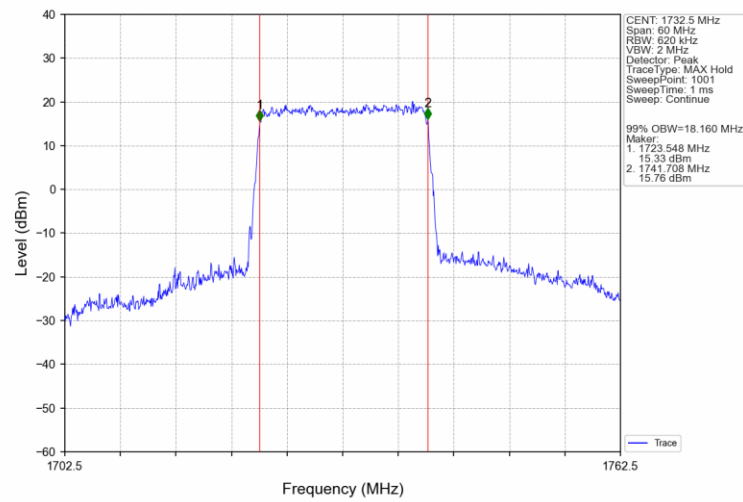
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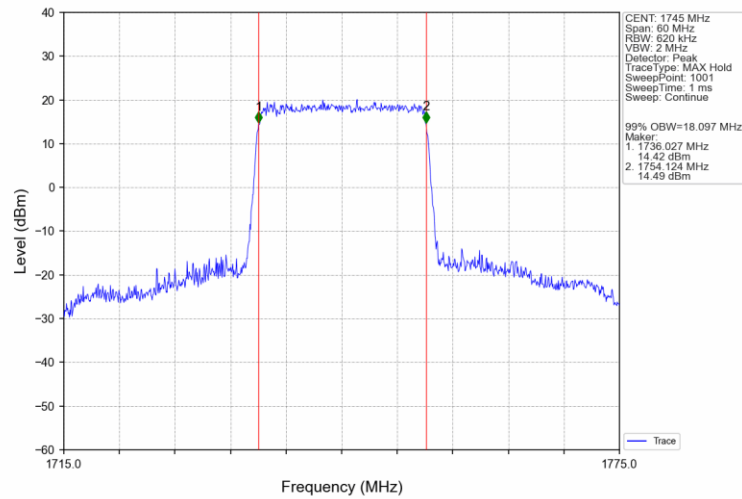
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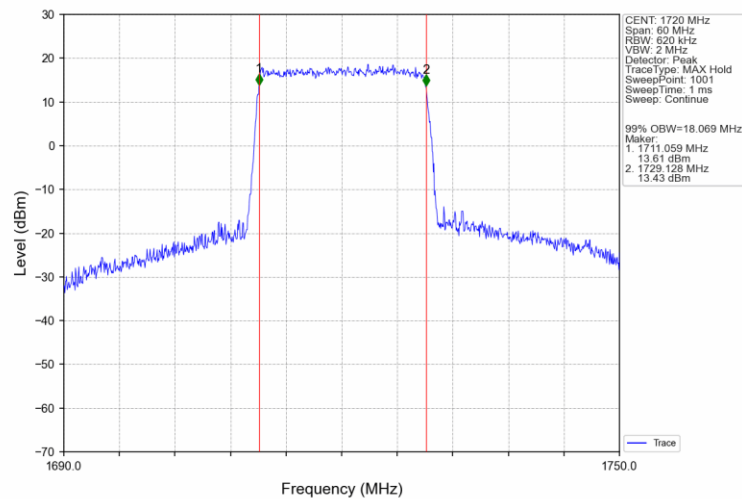
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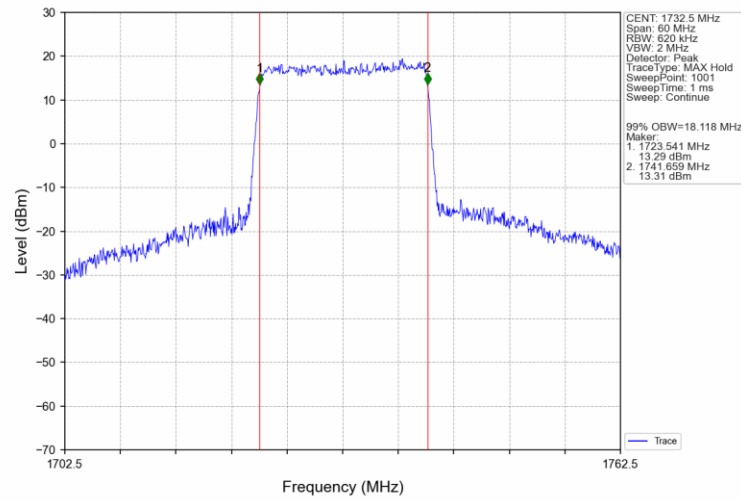
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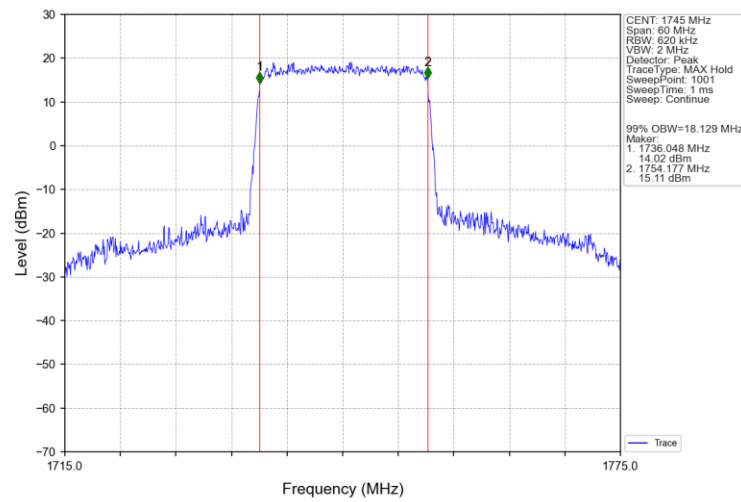
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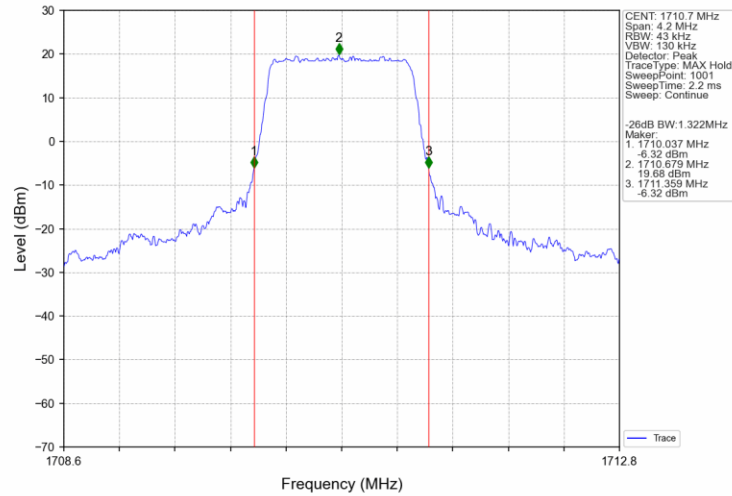


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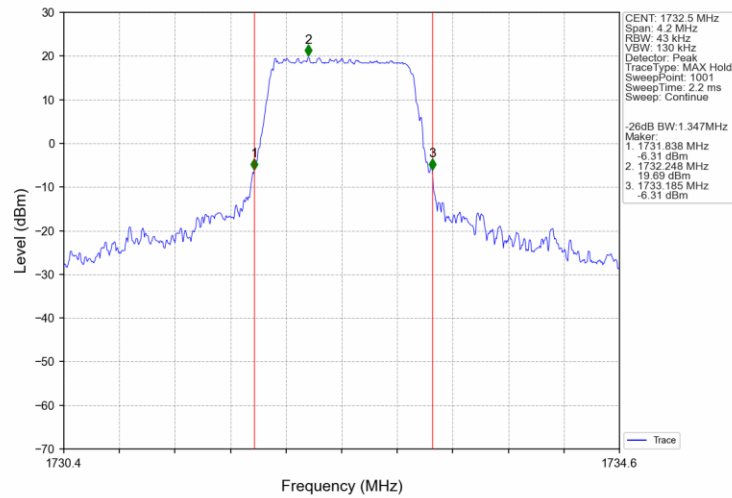


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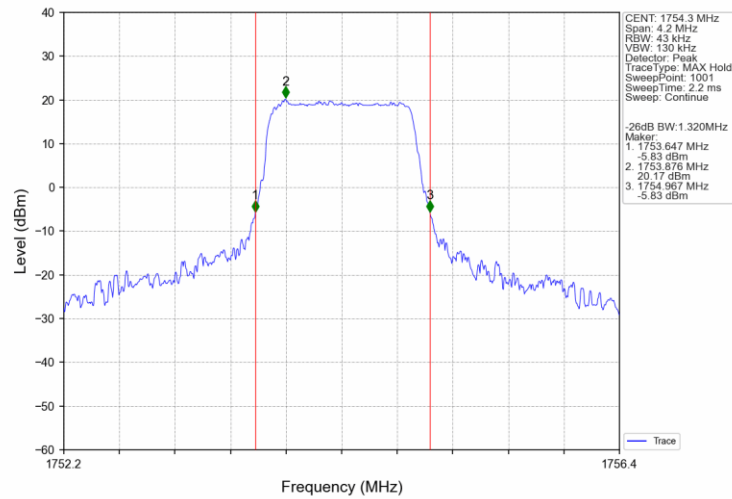
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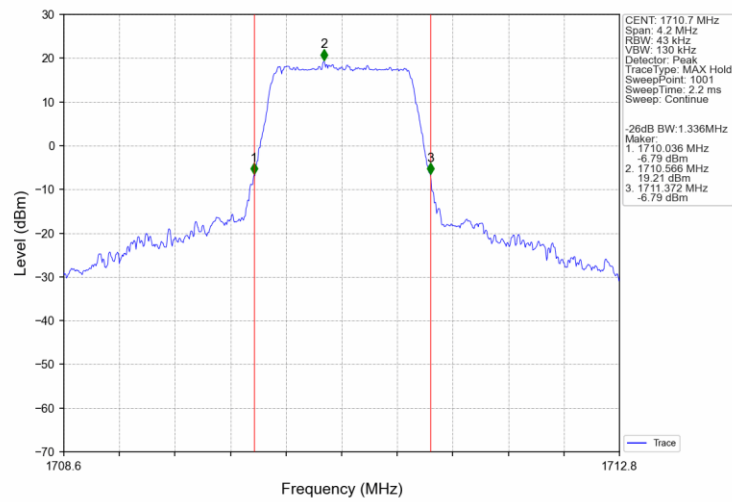
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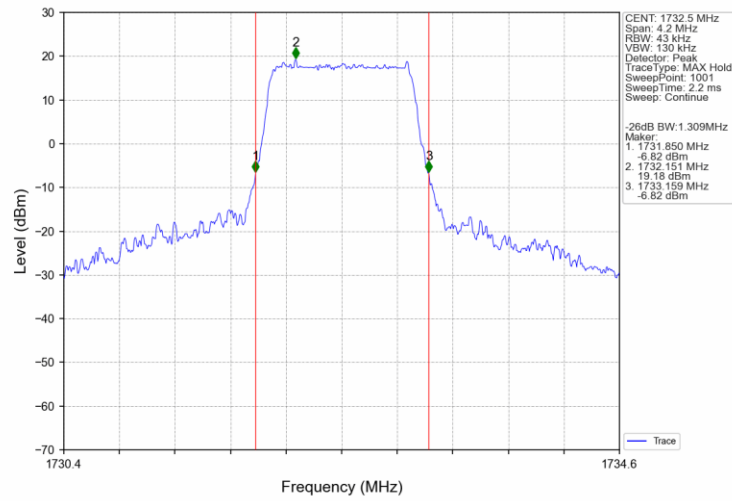
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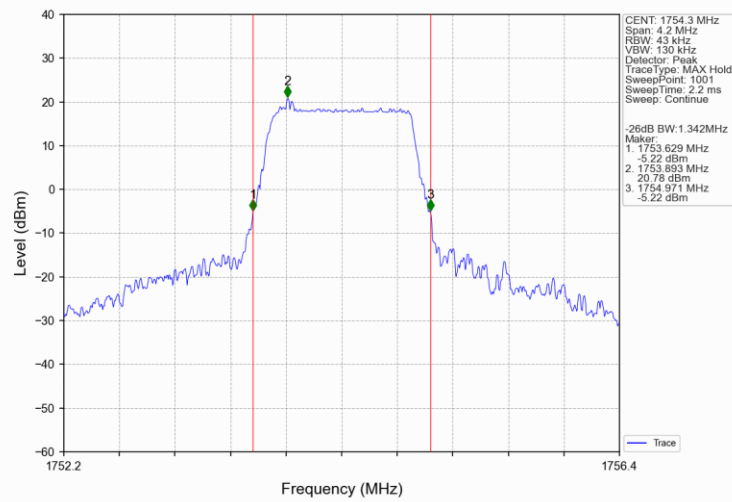
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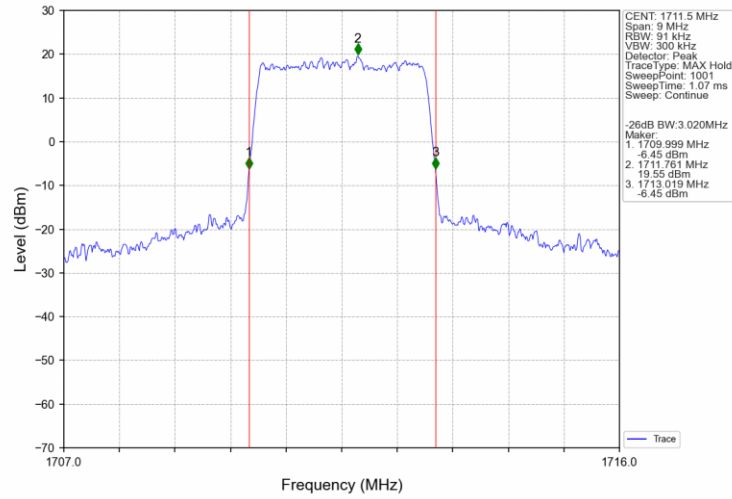
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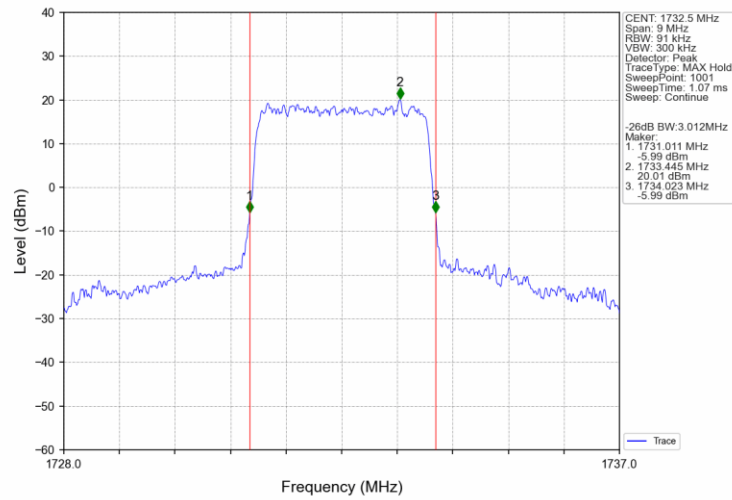
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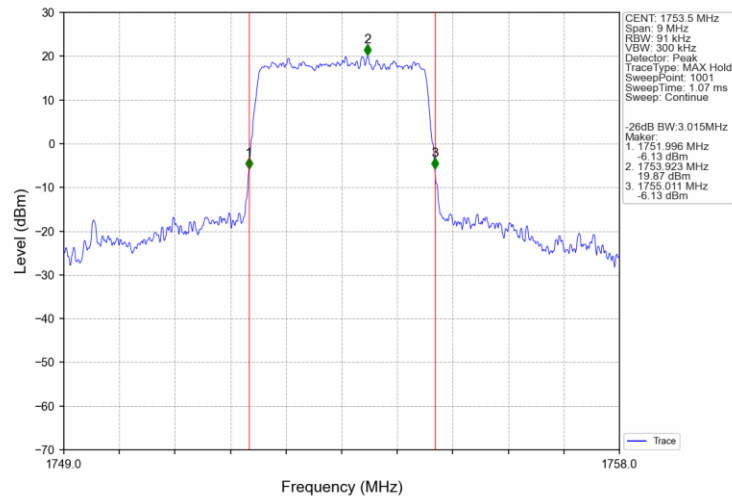
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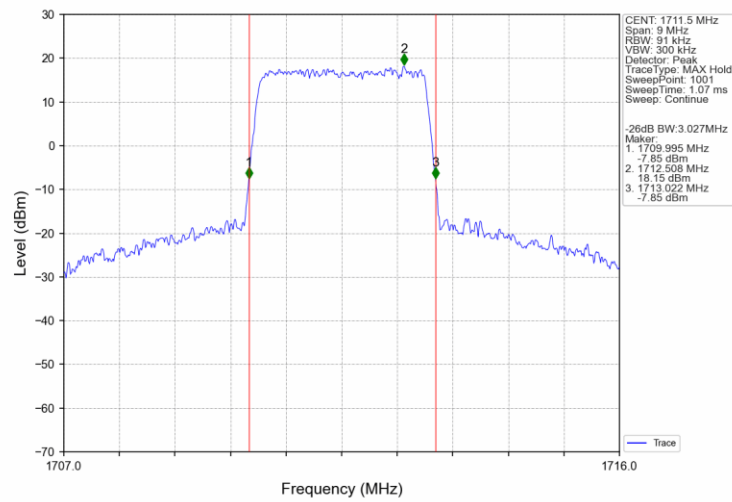
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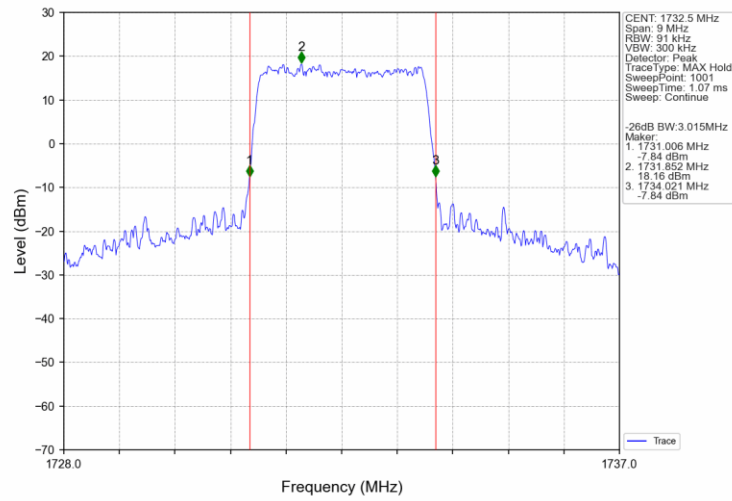
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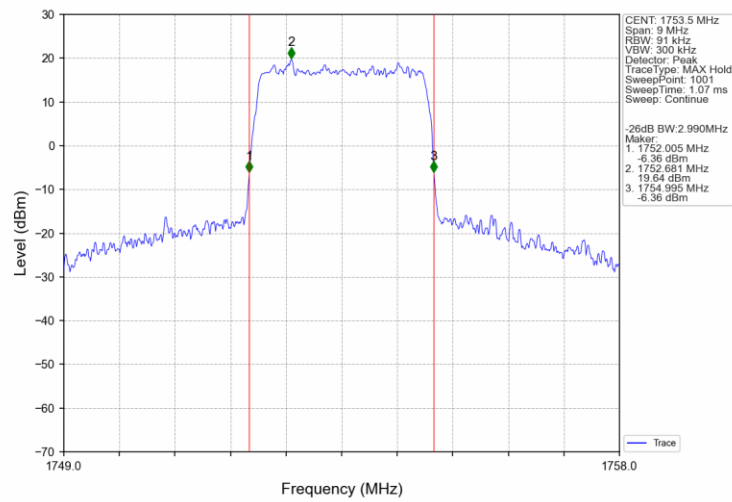
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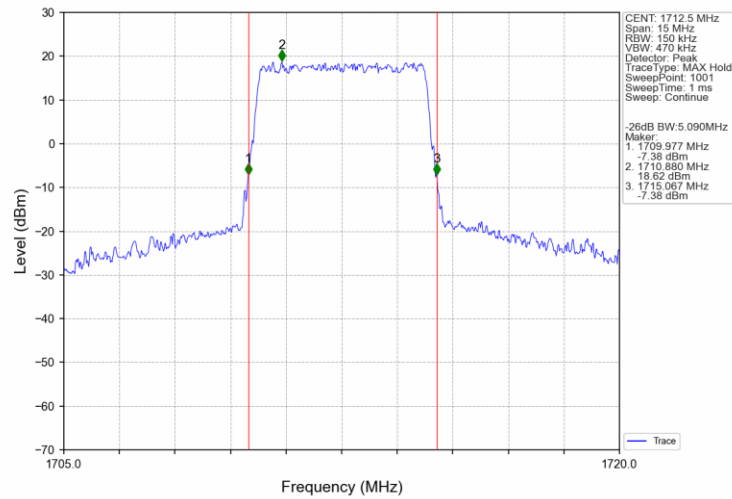
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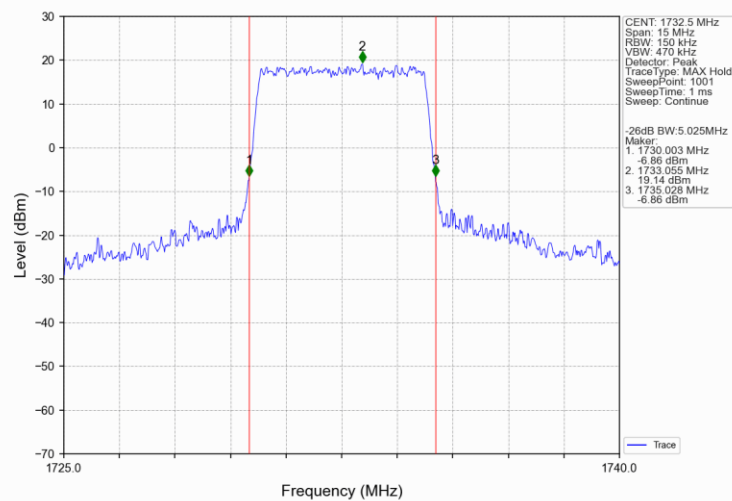
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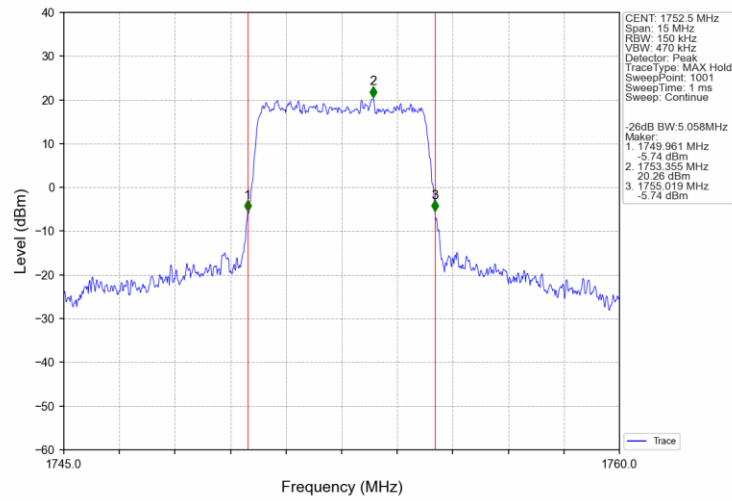
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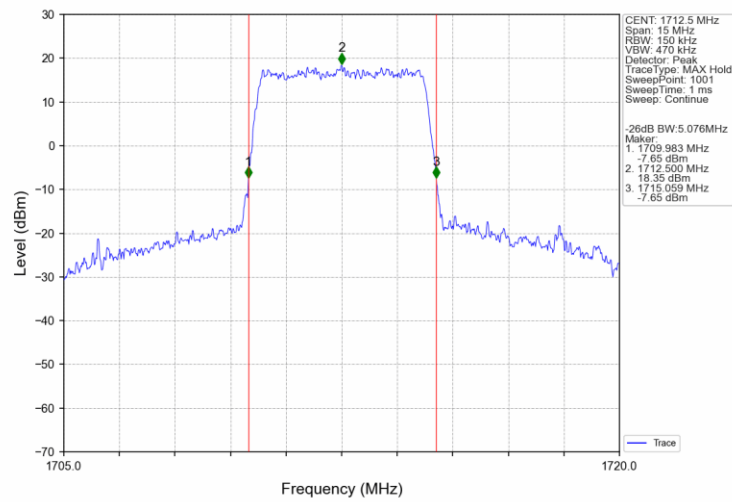
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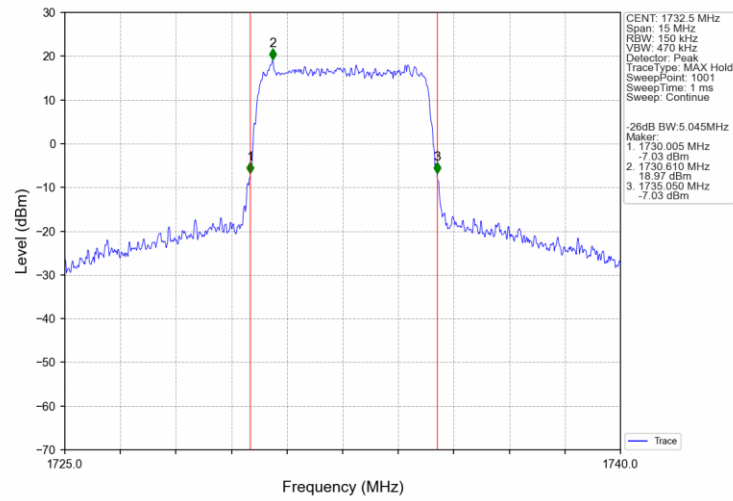
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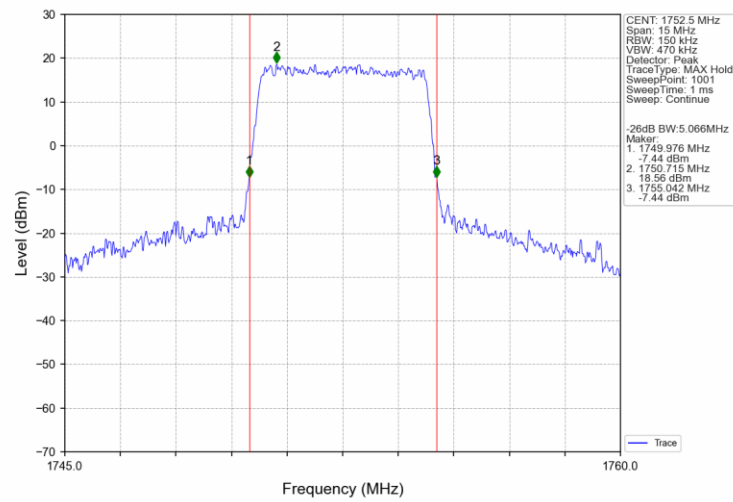
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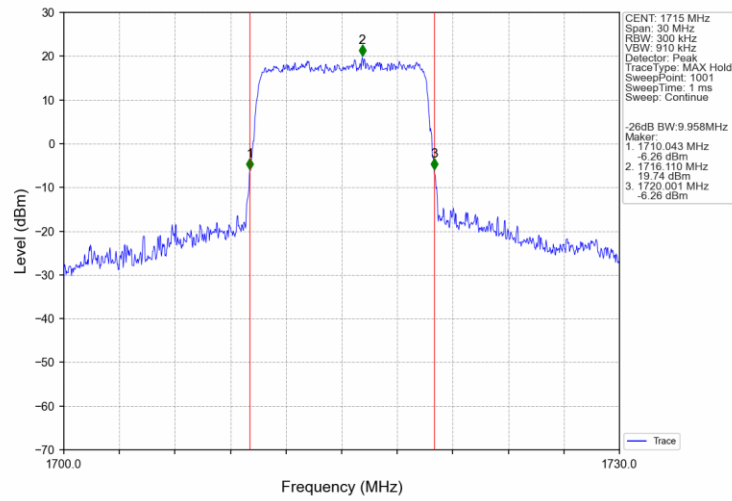
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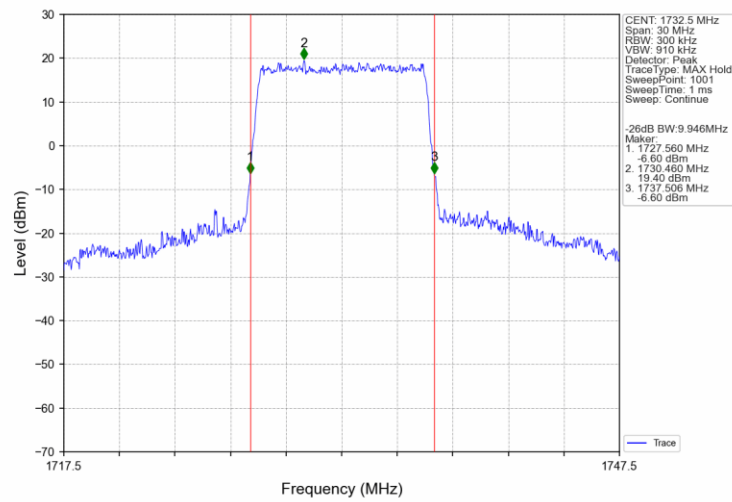
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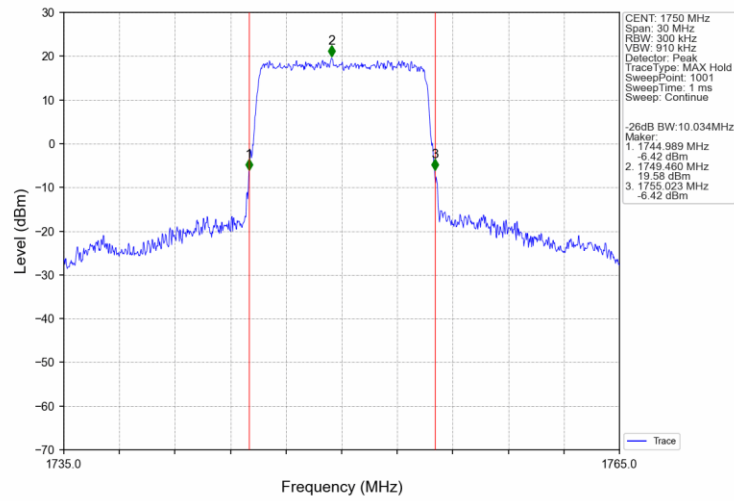
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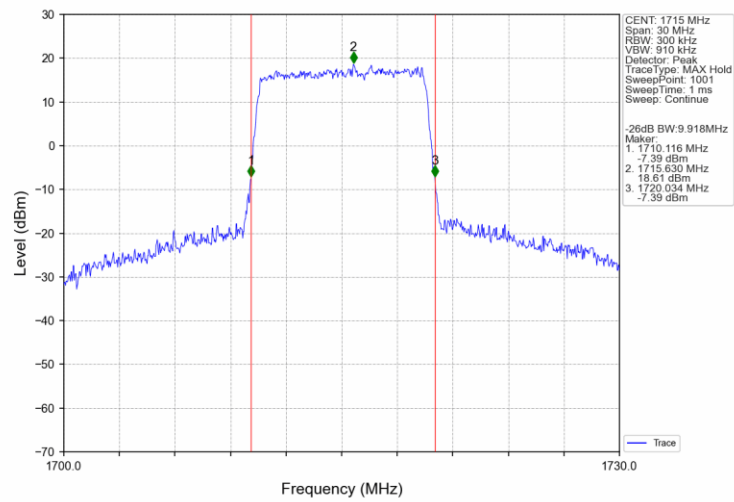
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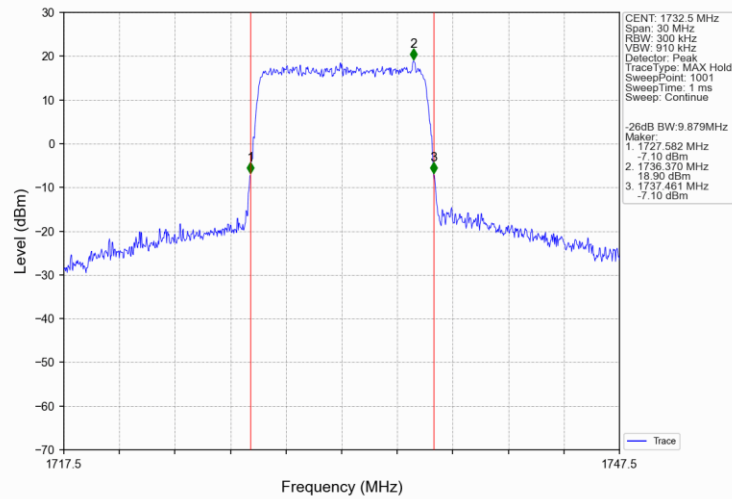
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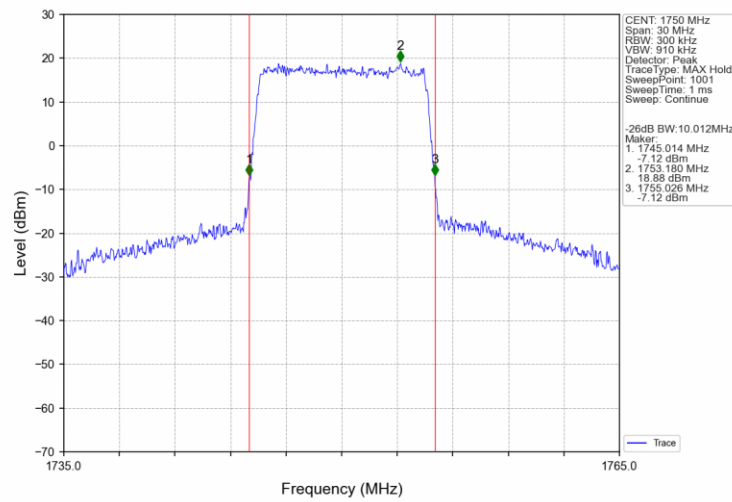
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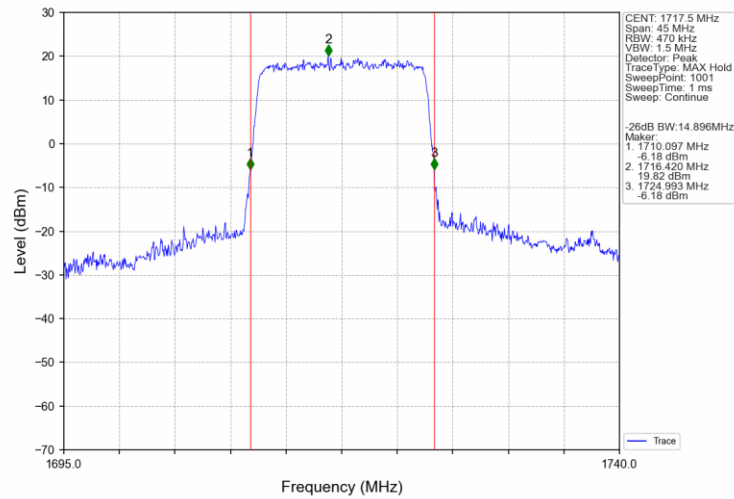
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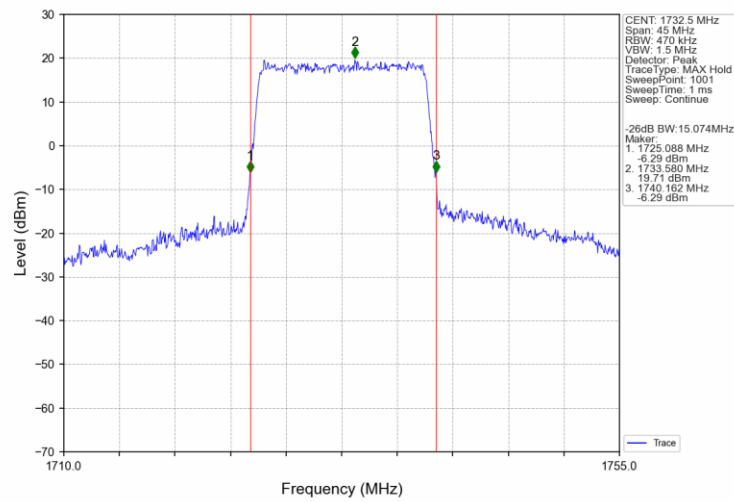
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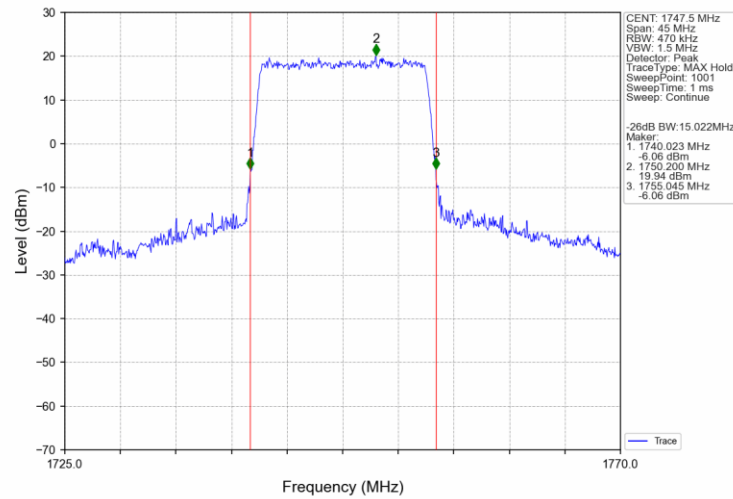
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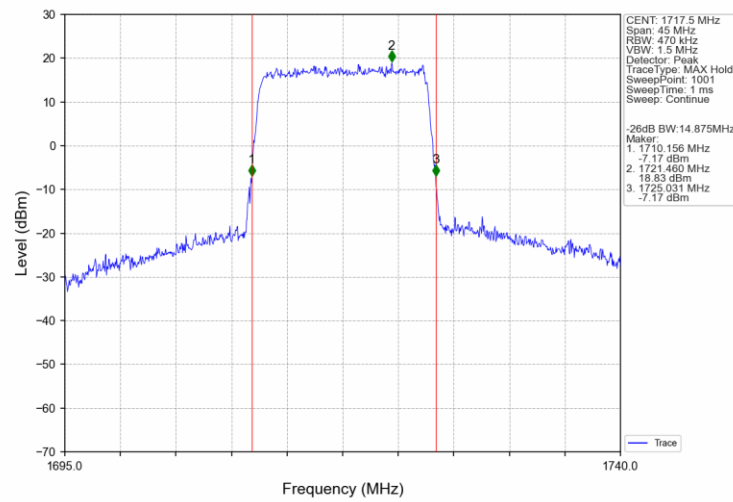
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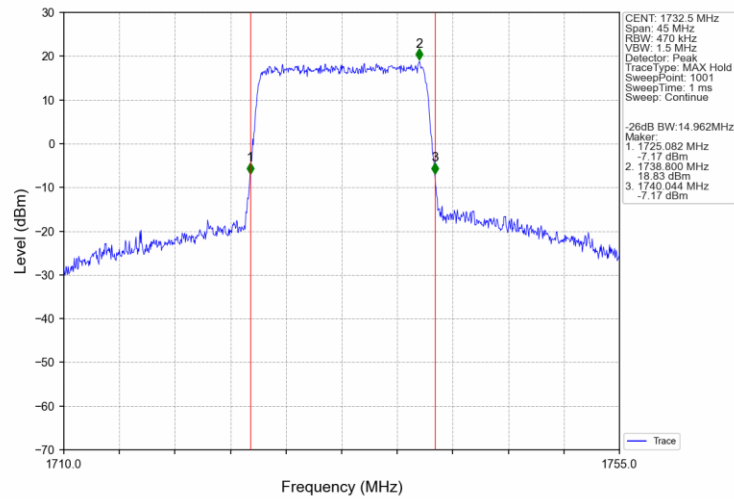
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Band4 15MHz 16QAM LCH 1717.5MHz RB 75 0 NTN



Band4 15MHz 16QAM MCH 1732.5MHz RB 75 0 NTN



Band4 15MHz 16QAM HCH 1747.5MHz RB 75 0 NTN

