

Appendix test data for LTE Band 41

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B41_5MHz_EIRP

Band: 41 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2498.5	1	0	22.18	2.18	24.36	<=33.01	Pass
			13	22.24	2.18	24.42	<=33.01	Pass
			24	22.28	2.18	24.46	<=33.01	Pass
		12	0	21.19	2.18	23.37	<=33.01	Pass
			6	21.19	2.18	23.37	<=33.01	Pass
			13	21.20	2.18	23.38	<=33.01	Pass
		25	0	21.18	2.18	23.36	<=33.01	Pass
	2593	1	0	22.81	2.18	24.99	<=33.01	Pass
			13	22.66	2.18	24.84	<=33.01	Pass
			24	22.66	2.18	24.84	<=33.01	Pass
		12	0	21.68	2.18	23.86	<=33.01	Pass
			6	21.63	2.18	23.81	<=33.01	Pass
			13	21.64	2.18	23.82	<=33.01	Pass
		25	0	21.65	2.18	23.83	<=33.01	Pass
	2687.5	1	0	23.79	2.18	25.97	<=33.01	Pass
			13	23.80	2.18	25.98	<=33.01	Pass
			24	23.73	2.18	25.91	<=33.01	Pass
		12	0	22.73	2.18	24.91	<=33.01	Pass
			6	22.72	2.18	24.90	<=33.01	Pass
			13	22.77	2.18	24.95	<=33.01	Pass
		25	0	22.76	2.18	24.94	<=33.01	Pass
16QAM	2498.5	1	0	21.45	2.18	23.63	<=33.01	Pass
			13	21.19	2.18	23.37	<=33.01	Pass
			24	21.20	2.18	23.38	<=33.01	Pass
		12	0	20.11	2.18	22.29	<=33.01	Pass
			6	20.11	2.18	22.29	<=33.01	Pass
			13	20.12	2.18	22.30	<=33.01	Pass
		25	0	20.29	2.18	22.47	<=33.01	Pass
	2593	1	0	21.80	2.18	23.98	<=33.01	Pass
			13	21.70	2.18	23.88	<=33.01	Pass
			24	21.71	2.18	23.89	<=33.01	Pass
		12	0	20.65	2.18	22.83	<=33.01	Pass
			6	20.61	2.18	22.79	<=33.01	Pass
			13	20.62	2.18	22.80	<=33.01	Pass
		25	0	20.65	2.18	22.83	<=33.01	Pass
	2687.5	1	0	22.52	2.18	24.70	<=33.01	Pass
			13	22.52	2.18	24.70	<=33.01	Pass
			24	22.94	2.18	25.12	<=33.01	Pass
		12	0	21.77	2.18	23.95	<=33.01	Pass
			6	21.74	2.18	23.92	<=33.01	Pass
			13	21.77	2.18	23.95	<=33.01	Pass
		25	0	21.78	2.18	23.96	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B41_10MHz_EIRP

Band: 41 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2501	1	0	22.18	2.18	24.36	<=33.01	Pass
			25	22.26	2.18	24.44	<=33.01	Pass
			49	22.28	2.18	24.46	<=33.01	Pass
		25	0	21.20	2.18	23.38	<=33.01	Pass
			13	21.23	2.18	23.41	<=33.01	Pass
			25	21.32	2.18	23.50	<=33.01	Pass
		50	0	21.28	2.18	23.46	<=33.01	Pass
	2593	1	0	22.63	2.18	24.81	<=33.01	Pass
			25	22.70	2.18	24.88	<=33.01	Pass
			49	22.68	2.18	24.86	<=33.01	Pass
		25	0	21.68	2.18	23.86	<=33.01	Pass
			13	21.67	2.18	23.85	<=33.01	Pass
			25	21.71	2.18	23.89	<=33.01	Pass
		50	0	21.71	2.18	23.89	<=33.01	Pass
	2685	1	0	23.76	2.18	25.94	<=33.01	Pass
			25	23.87	2.18	26.05	<=33.01	Pass
			49	23.81	2.18	25.99	<=33.01	Pass
		25	0	22.75	2.18	24.93	<=33.01	Pass
			13	22.76	2.18	24.94	<=33.01	Pass
			25	22.75	2.18	24.93	<=33.01	Pass
		50	0	22.80	2.18	24.98	<=33.01	Pass
16QAM	2501	1	0	21.15	2.18	23.33	<=33.01	Pass
			25	21.51	2.18	23.69	<=33.01	Pass
			49	21.29	2.18	23.47	<=33.01	Pass
		25	0	20.19	2.18	22.37	<=33.01	Pass
			13	20.19	2.18	22.37	<=33.01	Pass
			25	20.27	2.18	22.45	<=33.01	Pass
		50	0	20.19	2.18	22.37	<=33.01	Pass
	2593	1	0	21.50	2.18	23.68	<=33.01	Pass
			25	21.56	2.18	23.74	<=33.01	Pass
			49	21.45	2.18	23.63	<=33.01	Pass
		25	0	20.71	2.18	22.89	<=33.01	Pass
			13	20.66	2.18	22.84	<=33.01	Pass
			25	20.75	2.18	22.93	<=33.01	Pass
		50	0	20.68	2.18	22.86	<=33.01	Pass
	2685	1	0	22.77	2.18	24.95	<=33.01	Pass
			25	22.89	2.18	25.07	<=33.01	Pass
			49	22.92	2.18	25.10	<=33.01	Pass
		25	0	21.75	2.18	23.93	<=33.01	Pass
			13	21.81	2.18	23.99	<=33.01	Pass
			25	21.83	2.18	24.01	<=33.01	Pass
		50	0	21.74	2.18	23.92	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B41_15MHz_EIRP

Band: 41 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2503.5	1	0	22.20	2.18	24.38	<=33.01	Pass
			38	22.20	2.18	24.38	<=33.01	Pass
			74	22.14	2.18	24.32	<=33.01	Pass
		36	0	21.13	2.18	23.31	<=33.01	Pass
			18	21.17	2.18	23.35	<=33.01	Pass

16QAM			39	21.29	2.18	23.47	<=33.01	Pass
		75	0	21.23	2.18	23.41	<=33.01	Pass
	2593	1	0	22.57	2.18	24.75	<=33.01	Pass
			38	22.77	2.18	24.95	<=33.01	Pass
			74	22.62	2.18	24.80	<=33.01	Pass
		36	0	21.63	2.18	23.81	<=33.01	Pass
			18	21.65	2.18	23.83	<=33.01	Pass
			39	21.68	2.18	23.86	<=33.01	Pass
		75	0	21.67	2.18	23.85	<=33.01	Pass
	2682.5	1	0	23.73	2.18	25.91	<=33.01	Pass
			38	23.86	2.18	26.04	<=33.01	Pass
			74	23.83	2.18	26.01	<=33.01	Pass
		36	0	22.66	2.18	24.84	<=33.01	Pass
			18	22.72	2.18	24.90	<=33.01	Pass
			39	22.70	2.18	24.88	<=33.01	Pass
		75	0	22.75	2.18	24.93	<=33.01	Pass
	2503.5	1	0	21.41	2.18	23.59	<=33.01	Pass
			38	21.16	2.18	23.34	<=33.01	Pass
			74	21.13	2.18	23.31	<=33.01	Pass
		36	0	20.15	2.18	22.33	<=33.01	Pass
			18	20.19	2.18	22.37	<=33.01	Pass
			39	20.32	2.18	22.50	<=33.01	Pass
		75	0	20.24	2.18	22.42	<=33.01	Pass
	2593	1	0	21.46	2.18	23.64	<=33.01	Pass
			38	21.60	2.18	23.78	<=33.01	Pass
			74	21.41	2.18	23.59	<=33.01	Pass
		36	0	20.62	2.18	22.80	<=33.01	Pass
			18	20.69	2.18	22.87	<=33.01	Pass
			39	20.67	2.18	22.85	<=33.01	Pass
		75	0	20.62	2.18	22.80	<=33.01	Pass
	2682.5	1	0	22.70	2.18	24.88	<=33.01	Pass
			38	22.63	2.18	24.81	<=33.01	Pass
			74	22.80	2.18	24.98	<=33.01	Pass
		36	0	21.67	2.18	23.85	<=33.01	Pass
			18	21.76	2.18	23.94	<=33.01	Pass
			39	21.74	2.18	23.92	<=33.01	Pass
		75	0	21.77	2.18	23.95	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B41_20MHz_EIRP

Band: 41 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2506	1	0	21.94	2.18	24.12	<=33.01	Pass
			50	22.35	2.18	24.53	<=33.01	Pass
			99	22.23	2.18	24.41	<=33.01	Pass
		50	0	21.13	2.18	23.31	<=33.01	Pass
			25	21.32	2.18	23.50	<=33.01	Pass
			50	21.39	2.18	23.57	<=33.01	Pass
		100	0	21.26	2.18	23.44	<=33.01	Pass
	2593	1	0	22.52	2.18	24.70	<=33.01	Pass
			50	22.76	2.18	24.94	<=33.01	Pass
			99	22.68	2.18	24.86	<=33.01	Pass
		50	0	21.67	2.18	23.85	<=33.01	Pass
			25	21.73	2.18	23.91	<=33.01	Pass
			50	21.70	2.18	23.88	<=33.01	Pass
		100	0	21.70	2.18	23.88	<=33.01	Pass

16QAM	2680	1	0	23.61	2.18	25.79	<=33.01	Pass
			50	23.81	2.18	25.99	<=33.01	Pass
			99	23.76	2.18	25.94	<=33.01	Pass
		50	0	22.72	2.18	24.90	<=33.01	Pass
			25	22.79	2.18	24.97	<=33.01	Pass
			50	22.70	2.18	24.88	<=33.01	Pass
	2506	1	0	22.75	2.18	24.93	<=33.01	Pass
			0	21.21	2.18	23.39	<=33.01	Pass
			50	21.41	2.18	23.59	<=33.01	Pass
		50	99	21.46	2.18	23.64	<=33.01	Pass
			0	20.12	2.18	22.30	<=33.01	Pass
			25	20.26	2.18	22.44	<=33.01	Pass
		100	50	20.40	2.18	22.58	<=33.01	Pass
			0	20.26	2.18	22.44	<=33.01	Pass
		1	0	20.67	2.18	22.85	<=33.01	Pass
			0	21.38	2.18	23.56	<=33.01	Pass
			50	21.80	2.18	23.98	<=33.01	Pass
		50	99	21.47	2.18	23.65	<=33.01	Pass
			0	20.71	2.18	22.89	<=33.01	Pass
			25	20.70	2.18	22.88	<=33.01	Pass
		100	50	20.70	2.18	22.88	<=33.01	Pass
			0	22.81	2.18	24.99	<=33.01	Pass
		1	0	22.76	2.18	24.94	<=33.01	Pass
			50	22.71	2.18	24.89	<=33.01	Pass
			99	22.71	2.18	24.89	<=33.01	Pass
	2593	1	0	21.71	2.18	23.89	<=33.01	Pass
			25	21.76	2.18	23.94	<=33.01	Pass
			50	21.69	2.18	23.87	<=33.01	Pass
		50	0	21.71	2.18	23.89	<=33.01	Pass
			25	21.76	2.18	23.94	<=33.01	Pass
			50	21.69	2.18	23.87	<=33.01	Pass
	2680	1	0	21.71	2.18	23.89	<=33.01	Pass
			25	21.76	2.18	23.94	<=33.01	Pass
			50	21.69	2.18	23.87	<=33.01	Pass
		50	0	21.71	2.18	23.89	<=33.01	Pass
			25	21.76	2.18	23.94	<=33.01	Pass
			50	21.69	2.18	23.87	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2498.5	25	0	20	3.27	-2.632	-0.0011	-2.5 to 2.5	Pass
					3.85	-0.057	0.0000	-2.5 to 2.5	Pass
					4.43	-2.575	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	4.463	0.0018	-2.5 to 2.5	Pass
				-20	3.85	-9.141	-0.0037	-2.5 to 2.5	Pass
				-10	3.85	1.988	0.0008	-2.5 to 2.5	Pass
				0	3.85	0.973	0.0004	-2.5 to 2.5	Pass
				10	3.85	14.977	0.0060	-2.5 to 2.5	Pass
				30	3.85	1.502	0.0006	-2.5 to 2.5	Pass
				40	3.85	-1.287	-0.0005	-2.5 to 2.5	Pass
				50	3.85	10.285	0.0041	-2.5 to 2.5	Pass
	2593	25	0	20	3.27	-2.017	-0.0008	-2.5 to 2.5	Pass
					3.85	3.347	0.0013	-2.5 to 2.5	Pass
					4.43	2.360	0.0009	-2.5 to 2.5	Pass
				-30	3.85	6.523	0.0025	-2.5 to 2.5	Pass
				-20	3.85	8.097	0.0031	-2.5 to 2.5	Pass
				-10	3.85	-5.908	-0.0023	-2.5 to 2.5	Pass

16QAM	2687.5	25	0	0	3.85	-1.445	-0.0006	-2.5 to 2.5	Pass
				10	3.85	15.492	0.0060	-2.5 to 2.5	Pass
				30	3.85	-2.031	-0.0008	-2.5 to 2.5	Pass
				40	3.85	11.702	0.0045	-2.5 to 2.5	Pass
				50	3.85	-5.636	-0.0022	-2.5 to 2.5	Pass
	2498.5	25	0	20	3.27	11.344	0.0042	-2.5 to 2.5	Pass
					3.85	13.876	0.0052	-2.5 to 2.5	Pass
					4.43	18.053	0.0067	-2.5 to 2.5	Pass
				-30	3.85	18.468	0.0069	-2.5 to 2.5	Pass
				-20	3.85	16.150	0.0060	-2.5 to 2.5	Pass
				-10	3.85	18.024	0.0067	-2.5 to 2.5	Pass
				0	3.85	-0.758	-0.0003	-2.5 to 2.5	Pass
				10	3.85	42.973	0.0160	-2.5 to 2.5	Pass
				30	3.85	-38.123	-0.0142	-2.5 to 2.5	Pass
				40	3.85	8.583	0.0032	-2.5 to 2.5	Pass
				50	3.85	15.063	0.0056	-2.5 to 2.5	Pass
				20	3.27	8.526	0.0034	-2.5 to 2.5	Pass
					3.85	-5.436	-0.0022	-2.5 to 2.5	Pass
					4.43	-7.195	-0.0029	-2.5 to 2.5	Pass
				-30	3.85	2.131	0.0009	-2.5 to 2.5	Pass
				-20	3.85	9.155	0.0037	-2.5 to 2.5	Pass
				-10	3.85	2.160	0.0009	-2.5 to 2.5	Pass
				0	3.85	5.965	0.0024	-2.5 to 2.5	Pass
				10	3.85	8.540	0.0034	-2.5 to 2.5	Pass
				30	3.85	-2.947	-0.0012	-2.5 to 2.5	Pass
				40	3.85	8.512	0.0034	-2.5 to 2.5	Pass
				50	3.85	1.116	0.0004	-2.5 to 2.5	Pass
	2593	25	0	20	3.27	-0.343	-0.0001	-2.5 to 2.5	Pass
					3.85	0.486	0.0002	-2.5 to 2.5	Pass
					4.43	4.907	0.0019	-2.5 to 2.5	Pass
				-30	3.85	-1.802	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-0.615	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	7.567	0.0029	-2.5 to 2.5	Pass
				0	3.85	-8.211	-0.0032	-2.5 to 2.5	Pass
				10	3.85	-12.646	-0.0049	-2.5 to 2.5	Pass
				30	3.85	-2.646	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-5.436	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-2.947	-0.0011	-2.5 to 2.5	Pass
	2687.5	25	0	20	3.27	19.283	0.0072	-2.5 to 2.5	Pass
					3.85	14.305	0.0053	-2.5 to 2.5	Pass
					4.43	15.378	0.0057	-2.5 to 2.5	Pass
				-30	3.85	17.524	0.0065	-2.5 to 2.5	Pass
				-20	3.85	14.005	0.0052	-2.5 to 2.5	Pass
				-10	3.85	11.902	0.0044	-2.5 to 2.5	Pass
				0	3.85	12.746	0.0047	-2.5 to 2.5	Pass
				10	3.85	0.286	0.0001	-2.5 to 2.5	Pass
				30	3.85	11.544	0.0043	-2.5 to 2.5	Pass
				40	3.85	8.326	0.0031	-2.5 to 2.5	Pass
				50	3.85	8.926	0.0033	-2.5 to 2.5	Pass

2.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2501	50	0	20	3.27	3.877	0.0016	-2.5 to 2.5	Pass
					3.85	1.416	0.0006	-2.5 to 2.5	Pass
					4.43	4.449	0.0018	-2.5 to 2.5	Pass

				-30	3.85	8.225	0.0033	-2.5 to 2.5	Pass
				-20	3.85	2.532	0.0010	-2.5 to 2.5	Pass
				-10	3.85	5.007	0.0020	-2.5 to 2.5	Pass
				0	3.85	4.120	0.0016	-2.5 to 2.5	Pass
				10	3.85	-0.615	-0.0002	-2.5 to 2.5	Pass
				30	3.85	1.144	0.0005	-2.5 to 2.5	Pass
				40	3.85	3.262	0.0013	-2.5 to 2.5	Pass
				50	3.85	6.752	0.0027	-2.5 to 2.5	Pass
	2593	50	0	20	3.27	3.233	0.0012	-2.5 to 2.5	Pass
					3.85	2.475	0.0010	-2.5 to 2.5	Pass
					4.43	3.605	0.0014	-2.5 to 2.5	Pass
				-30	3.85	-0.257	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	3.476	0.0013	-2.5 to 2.5	Pass
				-10	3.85	-0.572	-0.0002	-2.5 to 2.5	Pass
				0	3.85	5.879	0.0023	-2.5 to 2.5	Pass
				10	3.85	5.164	0.0020	-2.5 to 2.5	Pass
				30	3.85	4.578	0.0018	-2.5 to 2.5	Pass
				40	3.85	2.589	0.0010	-2.5 to 2.5	Pass
				50	3.85	1.416	0.0005	-2.5 to 2.5	Pass
				20	3.27	-0.215	-0.0001	-2.5 to 2.5	Pass
					3.85	-0.801	-0.0003	-2.5 to 2.5	Pass
					4.43	-23.260	-0.0087	-2.5 to 2.5	Pass
	2685	50	0	-30	3.85	2.275	0.0008	-2.5 to 2.5	Pass
				-20	3.85	0.401	0.0001	-2.5 to 2.5	Pass
				-10	3.85	6.452	0.0024	-2.5 to 2.5	Pass
				0	3.85	0.701	0.0003	-2.5 to 2.5	Pass
				10	3.85	3.691	0.0014	-2.5 to 2.5	Pass
				30	3.85	-0.801	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.129	0.0000	-2.5 to 2.5	Pass
				50	3.85	1.788	0.0007	-2.5 to 2.5	Pass
16QAM	2501	50	0	20	3.27	6.194	0.0025	-2.5 to 2.5	Pass
					3.85	1.860	0.0007	-2.5 to 2.5	Pass
					4.43	6.666	0.0027	-2.5 to 2.5	Pass
				-30	3.85	-1.130	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	7.839	0.0031	-2.5 to 2.5	Pass
				-10	3.85	5.994	0.0024	-2.5 to 2.5	Pass
				0	3.85	3.920	0.0016	-2.5 to 2.5	Pass
				10	3.85	4.120	0.0016	-2.5 to 2.5	Pass
				30	3.85	1.488	0.0006	-2.5 to 2.5	Pass
				40	3.85	6.137	0.0025	-2.5 to 2.5	Pass
				50	3.85	4.535	0.0018	-2.5 to 2.5	Pass
	2593	50	0	20	3.27	4.950	0.0019	-2.5 to 2.5	Pass
					3.85	1.616	0.0006	-2.5 to 2.5	Pass
					4.43	-1.130	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	2.060	0.0008	-2.5 to 2.5	Pass
				-20	3.85	3.977	0.0015	-2.5 to 2.5	Pass
				-10	3.85	2.389	0.0009	-2.5 to 2.5	Pass
				0	3.85	2.947	0.0011	-2.5 to 2.5	Pass
				10	3.85	-3.490	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-3.791	-0.0015	-2.5 to 2.5	Pass
				40	3.85	1.030	0.0004	-2.5 to 2.5	Pass
				50	3.85	4.206	0.0016	-2.5 to 2.5	Pass
	2685	50	0	20	3.27	6.409	0.0024	-2.5 to 2.5	Pass
					3.85	1.373	0.0005	-2.5 to 2.5	Pass
					4.43	7.467	0.0028	-2.5 to 2.5	Pass
				-30	3.85	1.502	0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.458	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	2.689	0.0010	-2.5 to 2.5	Pass
				0	3.85	2.847	0.0011	-2.5 to 2.5	Pass

				10	3.85	5.665	0.0021	-2.5 to 2.5	Pass
				30	3.85	6.967	0.0026	-2.5 to 2.5	Pass
				40	3.85	0.544	0.0002	-2.5 to 2.5	Pass
				50	3.85	5.407	0.0020	-2.5 to 2.5	Pass

2.1.3 B41_15MHz

Band: 41 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2503.5	75	0	20	3.27	-3.605	-0.0014	-2.5 to 2.5	Pass
					3.85	-2.403	-0.0010	-2.5 to 2.5	Pass
					4.43	2.375	0.0009	-2.5 to 2.5	Pass
				-30	3.85	-1.960	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	5.665	0.0023	-2.5 to 2.5	Pass
				-10	3.85	5.393	0.0022	-2.5 to 2.5	Pass
				0	3.85	5.364	0.0021	-2.5 to 2.5	Pass
				10	3.85	4.821	0.0019	-2.5 to 2.5	Pass
				30	3.85	4.263	0.0017	-2.5 to 2.5	Pass
				40	3.85	9.971	0.0040	-2.5 to 2.5	Pass
				50	3.85	6.065	0.0024	-2.5 to 2.5	Pass
	2593	75	0	20	3.27	0.186	0.0001	-2.5 to 2.5	Pass
					3.85	-5.951	-0.0023	-2.5 to 2.5	Pass
					4.43	4.706	0.0018	-2.5 to 2.5	Pass
				-30	3.85	-3.133	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	6.123	0.0024	-2.5 to 2.5	Pass
				-10	3.85	2.575	0.0010	-2.5 to 2.5	Pass
				0	3.85	3.791	0.0015	-2.5 to 2.5	Pass
				10	3.85	8.526	0.0033	-2.5 to 2.5	Pass
				30	3.85	7.238	0.0028	-2.5 to 2.5	Pass
				40	3.85	9.370	0.0036	-2.5 to 2.5	Pass
				50	3.85	8.454	0.0033	-2.5 to 2.5	Pass
	2682.5	75	0	20	3.27	9.184	0.0034	-2.5 to 2.5	Pass
					3.85	6.638	0.0025	-2.5 to 2.5	Pass
					4.43	0.644	0.0002	-2.5 to 2.5	Pass
				-30	3.85	2.260	0.0008	-2.5 to 2.5	Pass
				-20	3.85	5.636	0.0021	-2.5 to 2.5	Pass
				-10	3.85	1.001	0.0004	-2.5 to 2.5	Pass
				0	3.85	-3.161	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-0.858	-0.0003	-2.5 to 2.5	Pass
				30	3.85	1.173	0.0004	-2.5 to 2.5	Pass
				40	3.85	2.418	0.0009	-2.5 to 2.5	Pass
16QAM	2503.5	75	0	20	3.27	12.789	0.0051	-2.5 to 2.5	Pass
					3.85	9.627	0.0038	-2.5 to 2.5	Pass
					4.43	4.678	0.0019	-2.5 to 2.5	Pass
				-30	3.85	7.353	0.0029	-2.5 to 2.5	Pass
				-20	3.85	6.323	0.0025	-2.5 to 2.5	Pass
				-10	3.85	4.005	0.0016	-2.5 to 2.5	Pass
				0	3.85	0.072	0.0000	-2.5 to 2.5	Pass
				10	3.85	7.639	0.0031	-2.5 to 2.5	Pass
				30	3.85	8.855	0.0035	-2.5 to 2.5	Pass
				40	3.85	5.450	0.0022	-2.5 to 2.5	Pass
				50	3.85	2.432	0.0010	-2.5 to 2.5	Pass
	2593	75	0	20	3.27	10.729	0.0041	-2.5 to 2.5	Pass
					3.85	7.410	0.0029	-2.5 to 2.5	Pass
					4.43	-1.159	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	3.333	0.0013	-2.5 to 2.5	Pass
					3.85	3.333	0.0013	-2.5 to 2.5	Pass

				-20	3.85	5.250	0.0020	-2.5 to 2.5	Pass
				-10	3.85	-4.606	-0.0018	-2.5 to 2.5	Pass
				0	3.85	2.260	0.0009	-2.5 to 2.5	Pass
				10	3.85	8.612	0.0033	-2.5 to 2.5	Pass
				30	3.85	-0.730	-0.0003	-2.5 to 2.5	Pass
				40	3.85	9.570	0.0037	-2.5 to 2.5	Pass
				50	3.85	4.563	0.0018	-2.5 to 2.5	Pass
	2682.5	75	0	20	3.27	-3.076	-0.0011	-2.5 to 2.5	Pass
					3.85	0.973	0.0004	-2.5 to 2.5	Pass
					4.43	4.263	0.0016	-2.5 to 2.5	Pass
				-30	3.85	2.890	0.0011	-2.5 to 2.5	Pass
				-20	3.85	-5.693	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-0.973	-0.0004	-2.5 to 2.5	Pass
				0	3.85	1.774	0.0007	-2.5 to 2.5	Pass
				10	3.85	1.931	0.0007	-2.5 to 2.5	Pass
				30	3.85	-0.815	-0.0003	-2.5 to 2.5	Pass
				40	3.85	0.901	0.0003	-2.5 to 2.5	Pass
				50	3.85	-2.117	-0.0008	-2.5 to 2.5	Pass

2.1.4 B41_20MHz

Band: 41 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2506	100	0	20	3.27	-4.921	-0.0020	-2.5 to 2.5	Pass
					3.85	-3.691	-0.0015	-2.5 to 2.5	Pass
					4.43	1.187	0.0005	-2.5 to 2.5	Pass
				-30	3.85	1.302	0.0005	-2.5 to 2.5	Pass
				-20	3.85	7.954	0.0032	-2.5 to 2.5	Pass
				-10	3.85	1.960	0.0008	-2.5 to 2.5	Pass
				0	3.85	4.563	0.0018	-2.5 to 2.5	Pass
				10	3.85	2.518	0.0010	-2.5 to 2.5	Pass
				30	3.85	1.574	0.0006	-2.5 to 2.5	Pass
				40	3.85	-1.645	-0.0007	-2.5 to 2.5	Pass
				50	3.85	1.631	0.0007	-2.5 to 2.5	Pass
	2593	100	0	20	3.27	1.159	0.0004	-2.5 to 2.5	Pass
					3.85	0.715	0.0003	-2.5 to 2.5	Pass
					4.43	0.930	0.0004	-2.5 to 2.5	Pass
				-30	3.85	3.304	0.0013	-2.5 to 2.5	Pass
				-20	3.85	4.921	0.0019	-2.5 to 2.5	Pass
				-10	3.85	5.379	0.0021	-2.5 to 2.5	Pass
				0	3.85	4.449	0.0017	-2.5 to 2.5	Pass
				10	3.85	-1.373	-0.0005	-2.5 to 2.5	Pass
				30	3.85	2.160	0.0008	-2.5 to 2.5	Pass
				40	3.85	-2.532	-0.0010	-2.5 to 2.5	Pass
				50	3.85	-1.059	-0.0004	-2.5 to 2.5	Pass
	2680	100	0	20	3.27	1.659	0.0006	-2.5 to 2.5	Pass
					3.85	1.802	0.0007	-2.5 to 2.5	Pass
					4.43	5.450	0.0020	-2.5 to 2.5	Pass
				-30	3.85	-3.762	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	1.159	0.0004	-2.5 to 2.5	Pass
				-10	3.85	2.675	0.0010	-2.5 to 2.5	Pass
				0	3.85	-1.202	-0.0004	-2.5 to 2.5	Pass
				10	3.85	2.046	0.0008	-2.5 to 2.5	Pass
				30	3.85	-4.292	-0.0016	-2.5 to 2.5	Pass
				40	3.85	2.017	0.0008	-2.5 to 2.5	Pass
				50	3.85	2.904	0.0011	-2.5 to 2.5	Pass
16QAM	2506	100	0	20	3.27	1.674	0.0007	-2.5 to 2.5	Pass

					3.85	2.518	0.0010	-2.5 to 2.5	Pass
					4.43	4.935	0.0020	-2.5 to 2.5	Pass
				-30	3.85	-0.615	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	-5.736	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	6.781	0.0027	-2.5 to 2.5	Pass
				0	3.85	1.388	0.0006	-2.5 to 2.5	Pass
				10	3.85	3.076	0.0012	-2.5 to 2.5	Pass
				30	3.85	0.429	0.0002	-2.5 to 2.5	Pass
				40	3.85	3.819	0.0015	-2.5 to 2.5	Pass
				50	3.85	2.890	0.0012	-2.5 to 2.5	Pass
	2593	100	0	20	3.27	0.801	0.0003	-2.5 to 2.5	Pass
					3.85	1.645	0.0006	-2.5 to 2.5	Pass
					4.43	1.073	0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.644	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-2.718	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-10.142	-0.0039	-2.5 to 2.5	Pass
				0	3.85	-6.938	-0.0027	-2.5 to 2.5	Pass
				10	3.85	3.276	0.0013	-2.5 to 2.5	Pass
				30	3.85	-0.157	-0.0001	-2.5 to 2.5	Pass
				40	3.85	5.751	0.0022	-2.5 to 2.5	Pass
				50	3.85	-2.418	-0.0009	-2.5 to 2.5	Pass
	2680	100	0	20	3.27	0.744	0.0003	-2.5 to 2.5	Pass
					3.85	4.892	0.0018	-2.5 to 2.5	Pass
					4.43	-0.386	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-6.537	-0.0024	-2.5 to 2.5	Pass
				-20	3.85	-2.289	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-5.236	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-0.658	-0.0002	-2.5 to 2.5	Pass
				10	3.85	1.874	0.0007	-2.5 to 2.5	Pass
				30	3.85	-1.745	-0.0007	-2.5 to 2.5	Pass
				40	3.85	2.561	0.0010	-2.5 to 2.5	Pass
				50	3.85	-1.545	-0.0006	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	25	0	Refer To Test Graph		Pass
16QAM	2593	25	0	Refer To Test Graph		Pass

3.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	50	0	Refer To Test Graph		Pass
16QAM	2593	50	0	Refer To Test Graph		Pass

3.1.3 B41_15MHz

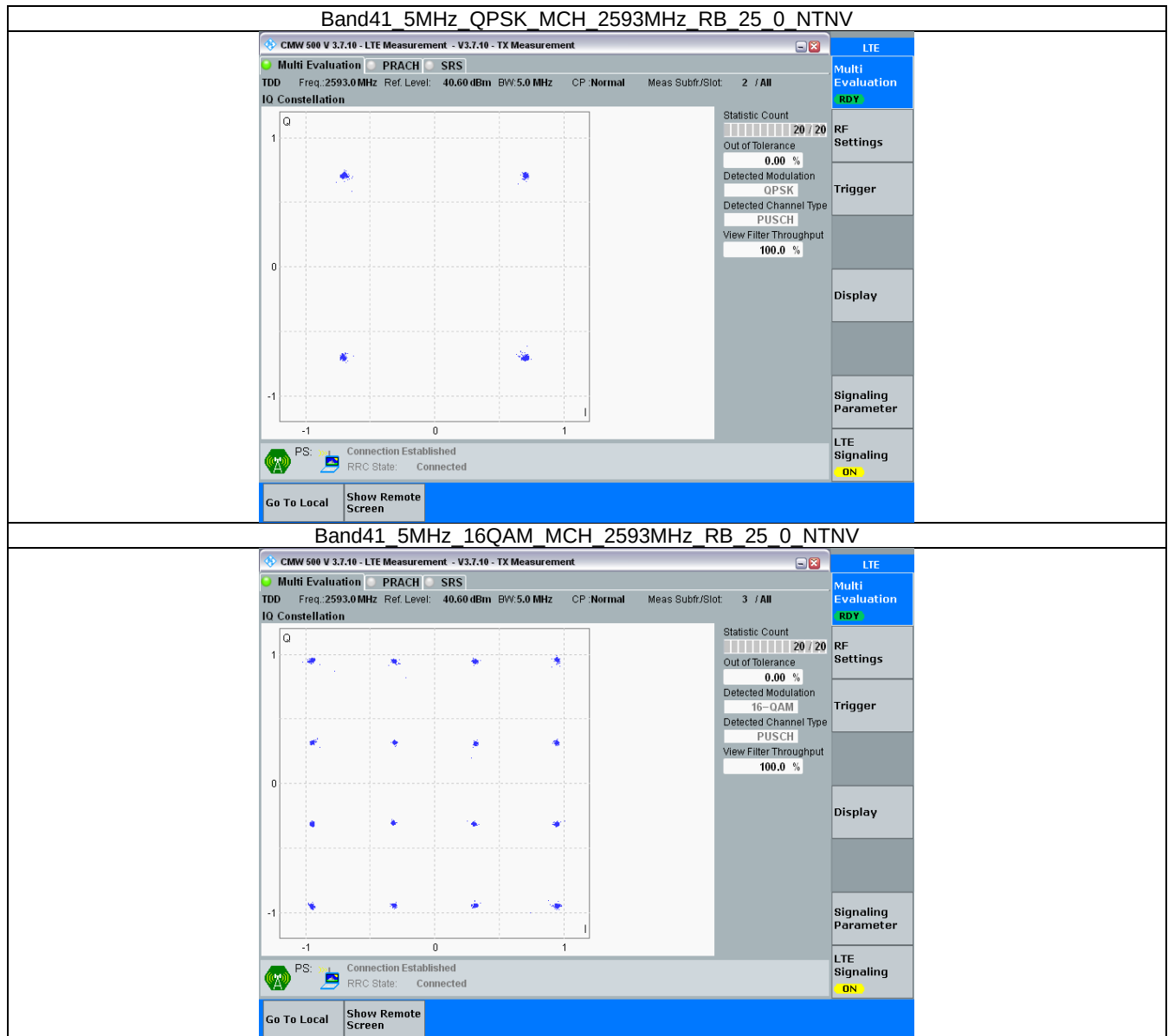
Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	75	0	Refer To Test Graph		Pass
16QAM	2593	75	0	Refer To Test Graph		Pass

3.1.4 B41_20MHz

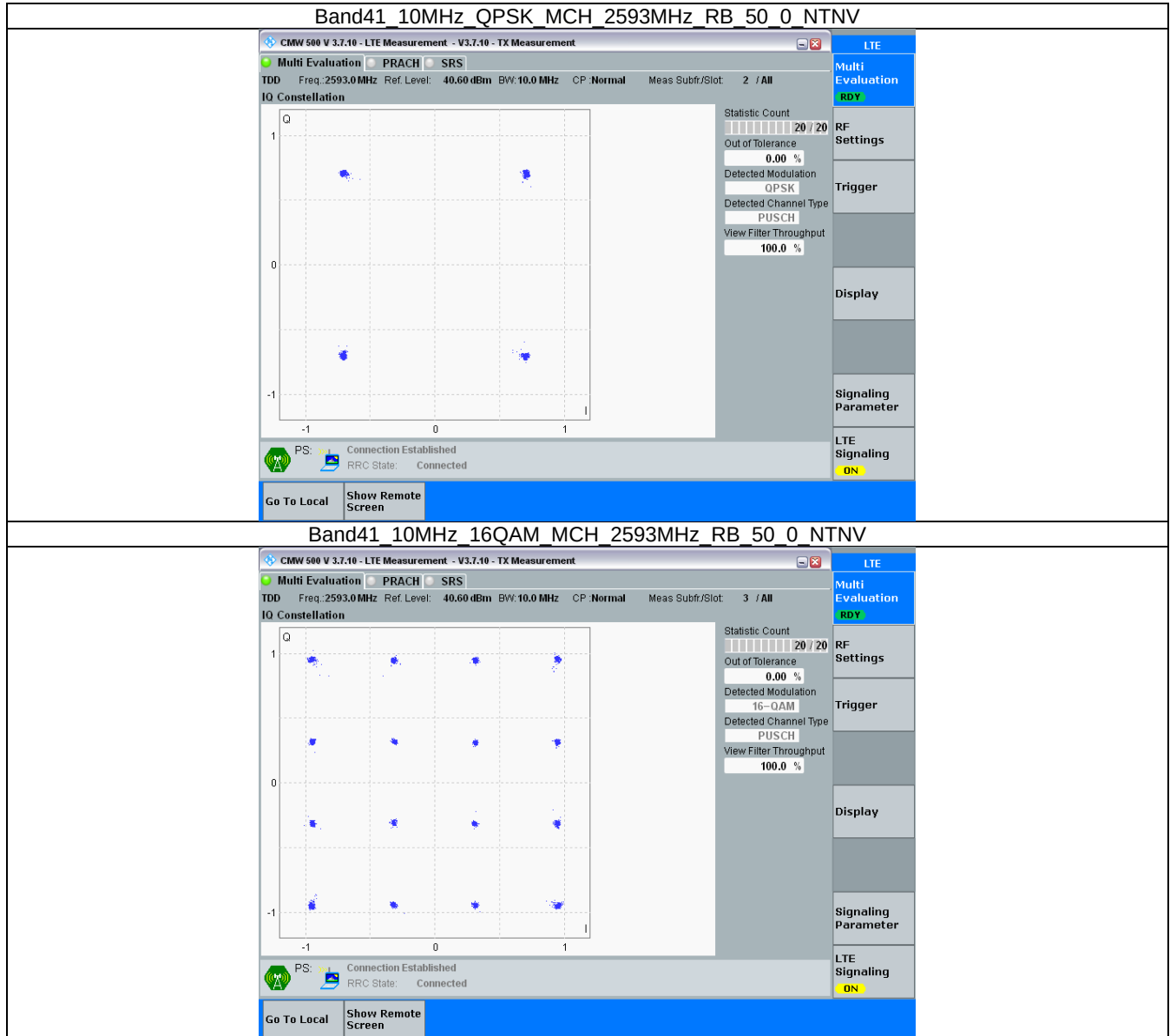
Band: 41 / Bandwidth: 20MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	100	0	Refer To Test Graph		Pass
16QAM	2593	100	0	Refer To Test Graph		Pass

3.2 Test Graph

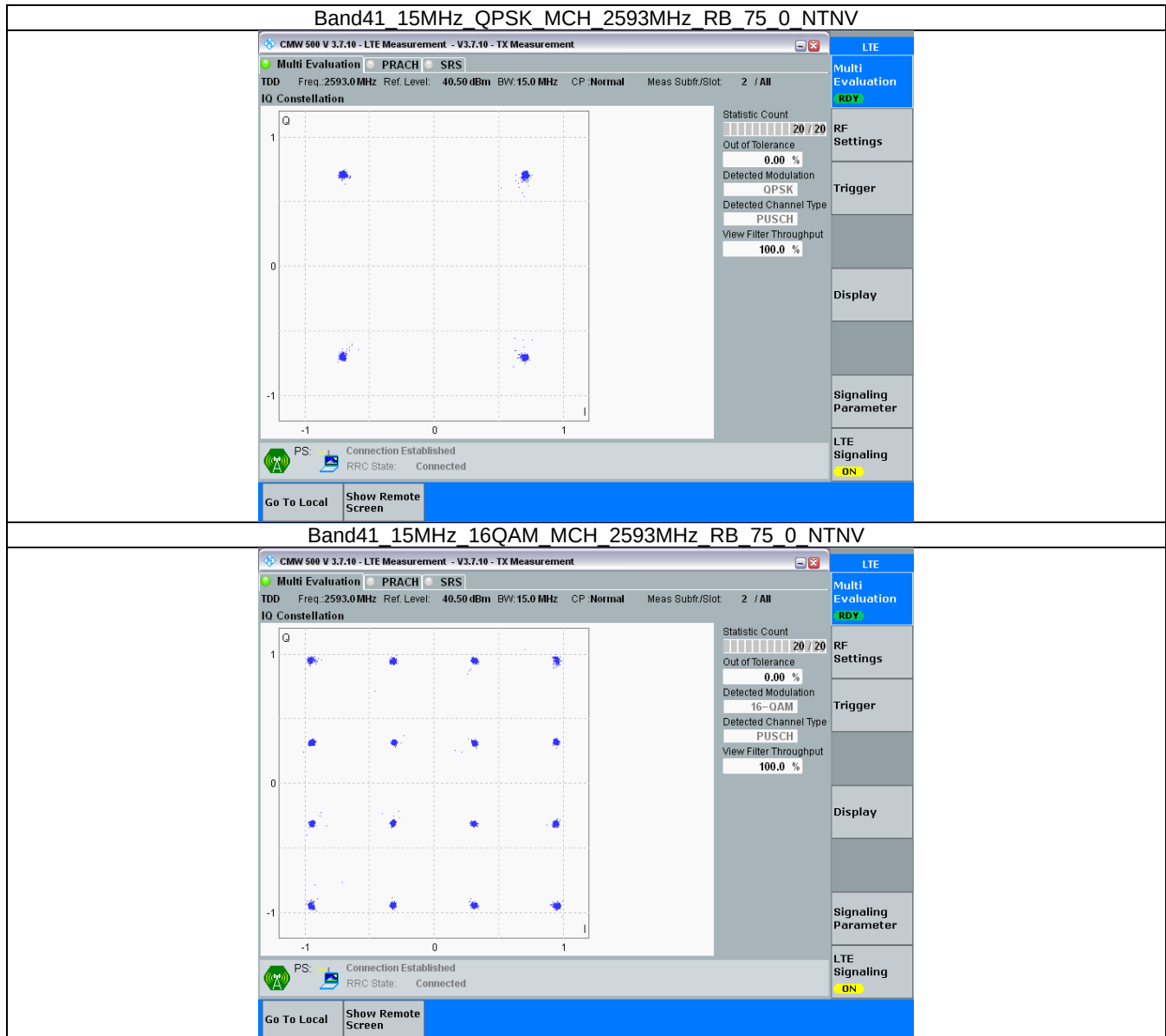
3.2.1 B41_5MHz



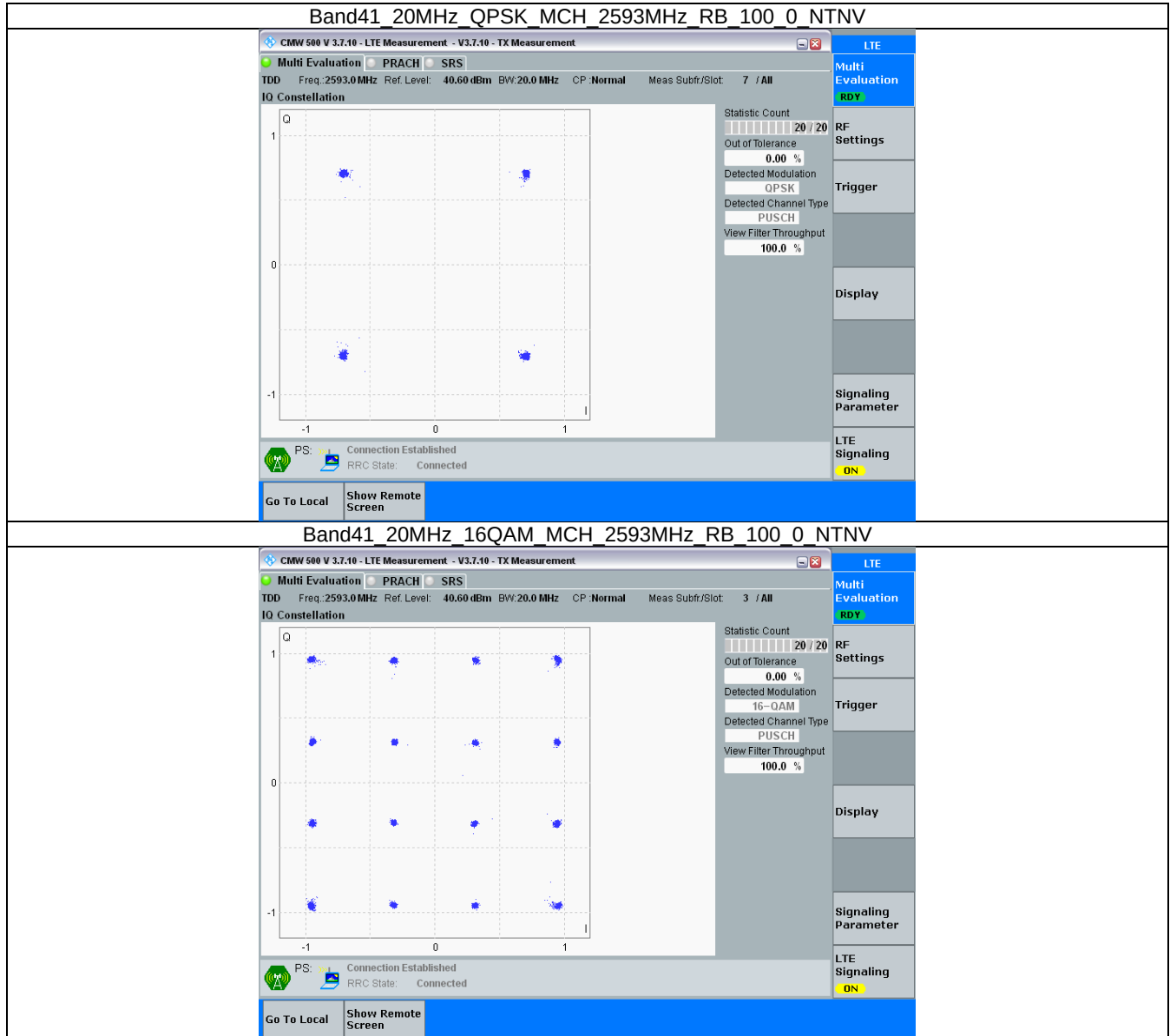
3.2.2 B41_10MHz



3.2.3 B41_15MHz



3.2.4 B41_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band41_OBW

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	4.560	/	Pass
		2593	25	0	4.555	/	Pass
		2687.5	25	0	4.555	/	Pass
	16QAM	2498.5	25	0	4.562	/	Pass
		2593	25	0	4.536	/	Pass
		2687.5	25	0	4.550	/	Pass
10	QPSK	2501	50	0	9.066	/	Pass
		2593	50	0	9.067	/	Pass
		2685	50	0	9.057	/	Pass
	16QAM	2501	50	0	9.062	/	Pass
		2593	50	0	9.082	/	Pass
		2685	50	0	9.057	/	Pass
15	QPSK	2503.5	75	0	13.549	/	Pass
		2593	75	0	13.582	/	Pass
		2682.5	75	0	13.604	/	Pass
	16QAM	2503.5	75	0	13.615	/	Pass
		2593	75	0	13.617	/	Pass
		2682.5	75	0	13.632	/	Pass
20	QPSK	2506	100	0	18.117	/	Pass
		2593	100	0	18.086	/	Pass
		2680	100	0	18.128	/	Pass
	16QAM	2506	100	0	18.142	/	Pass
		2593	100	0	18.136	/	Pass
		2680	100	0	18.060	/	Pass

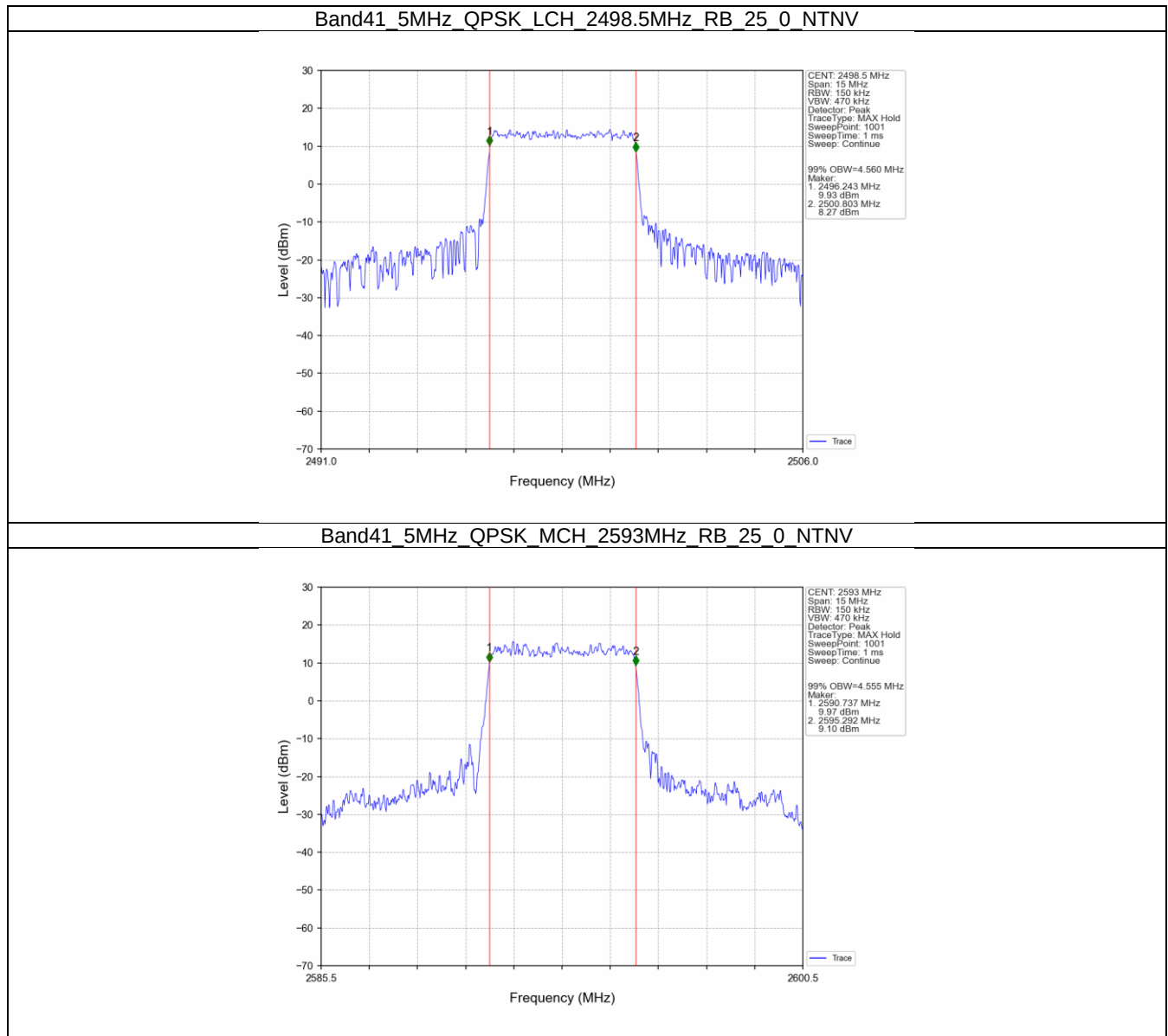
4.1.2 Band41_XDB

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	5.917	/	Pass
		2593	25	0	5.051	/	Pass
		2687.5	25	0	5.511	/	Pass
	16QAM	2498.5	25	0	5.169	/	Pass
		2593	25	0	5.050	/	Pass
		2687.5	25	0	5.114	/	Pass
10	QPSK	2501	50	0	10.758	/	Pass
		2593	50	0	10.053	/	Pass
		2685	50	0	11.494	/	Pass
	16QAM	2501	50	0	10.127	/	Pass
		2593	50	0	11.685	/	Pass
		2685	50	0	11.028	/	Pass
15	QPSK	2503.5	75	0	16.330	/	Pass
		2593	75	0	15.557	/	Pass
		2682.5	75	0	15.709	/	Pass

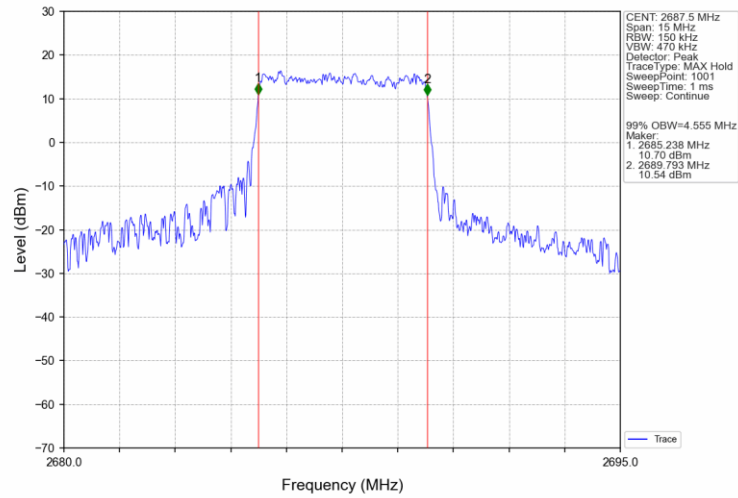
20	16QAM	2503.5	75	0	16.256	/	Pass
		2593	75	0	15.423	/	Pass
		2682.5	75	0	15.258	/	Pass
	QPSK	2506	100	0	20.083	/	Pass
		2593	100	0	20.370	/	Pass
		2680	100	0	20.479	/	Pass
	16QAM	2506	100	0	20.190	/	Pass
		2593	100	0	28.753	/	Pass
		2680	100	0	20.134	/	Pass

4.2 Test Graph

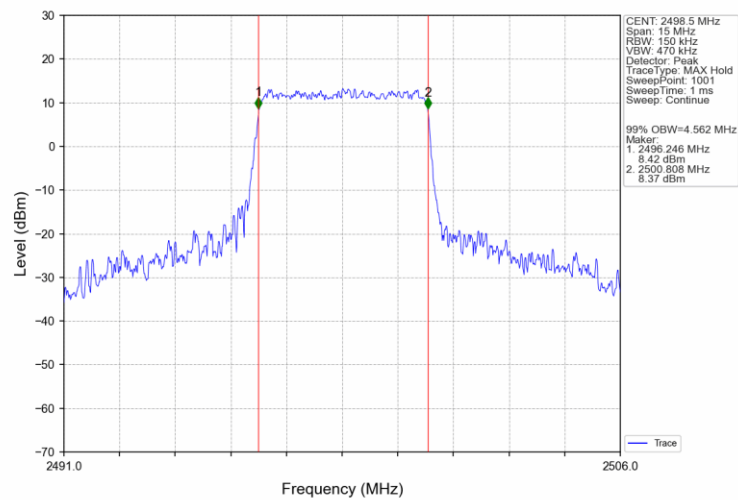
4.2.1 Band41_OBW



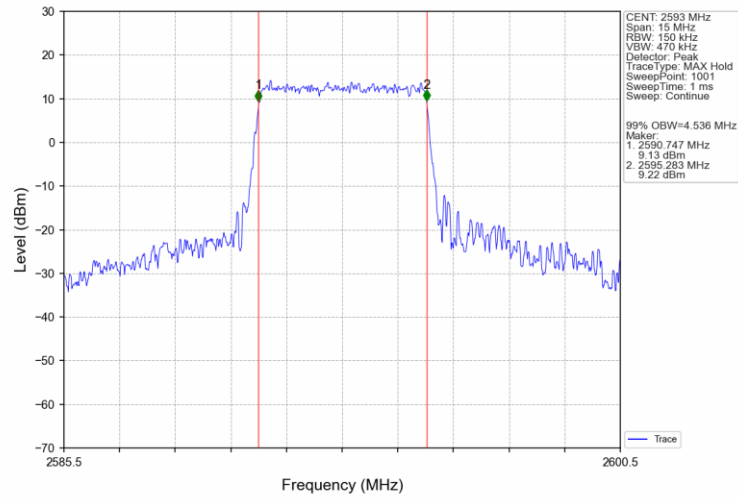
Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



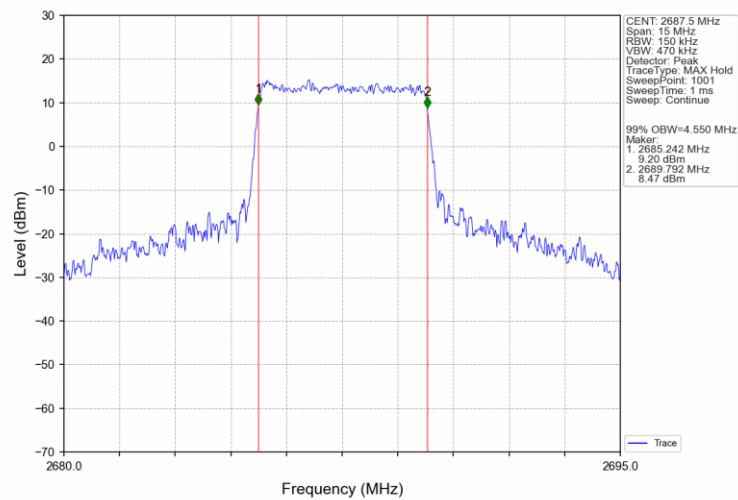
Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV



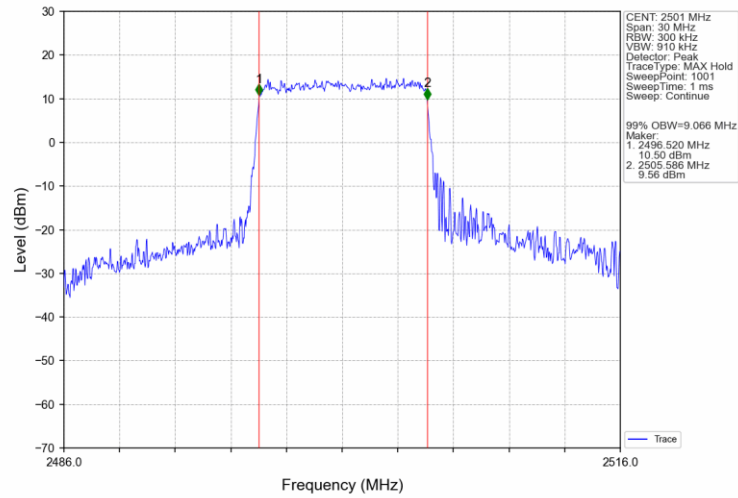
Band41_5MHz_16QAM_MCH_2593MHz_RB_25_0_NTNV



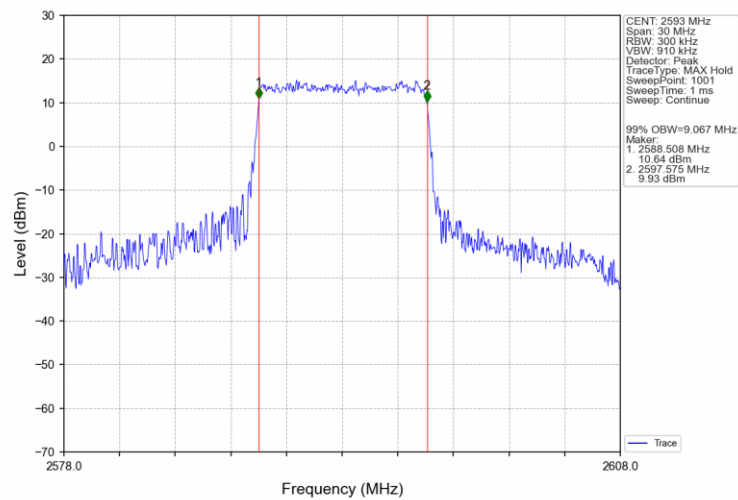
Band41_5MHz_16QAM_HCH_2687.5MHz_RB_25_0_NTNV



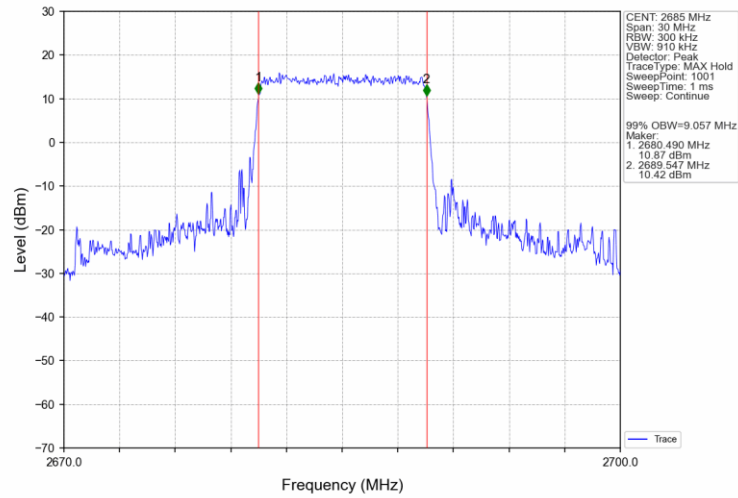
Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV



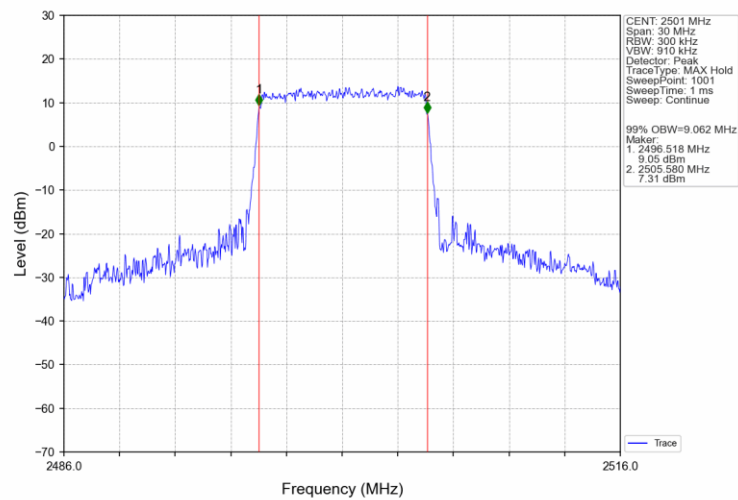
Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV



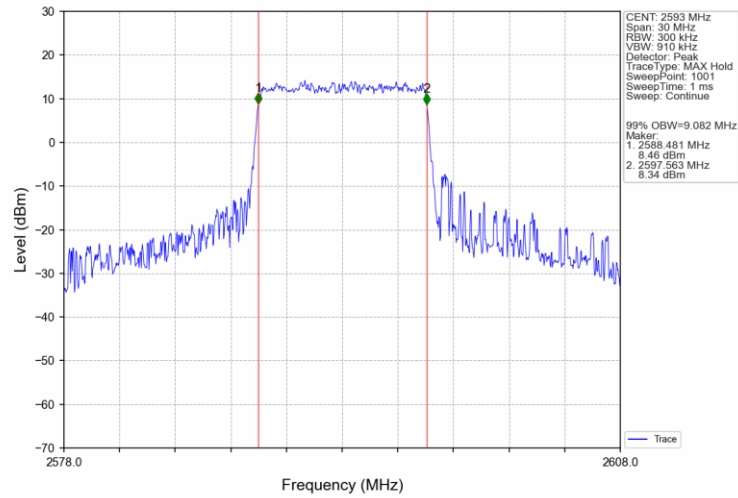
Band41 10MHz QPSK HCH 2685MHz RB 50 0 NTV



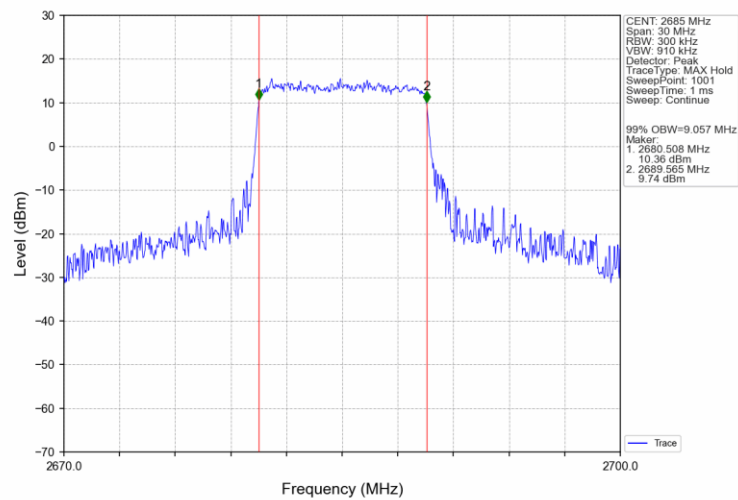
Band41 10MHz 16QAM LCH 2501MHz RB 50 0 NTV



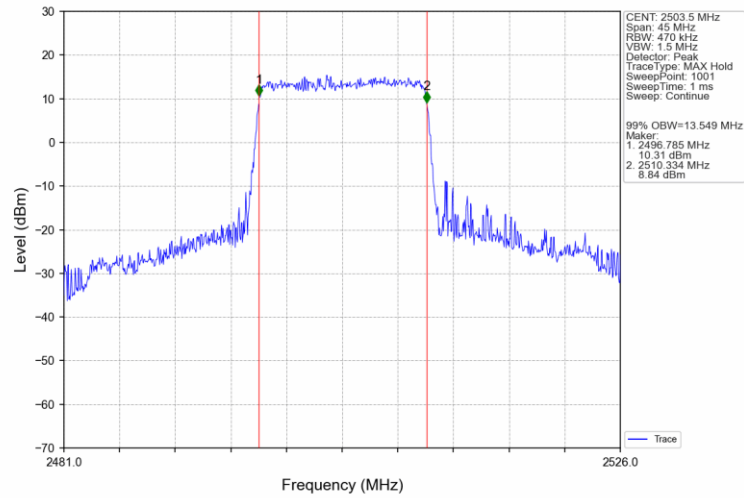
Band41 10MHz 16QAM MCH 2593MHz RB 50 0 NTN



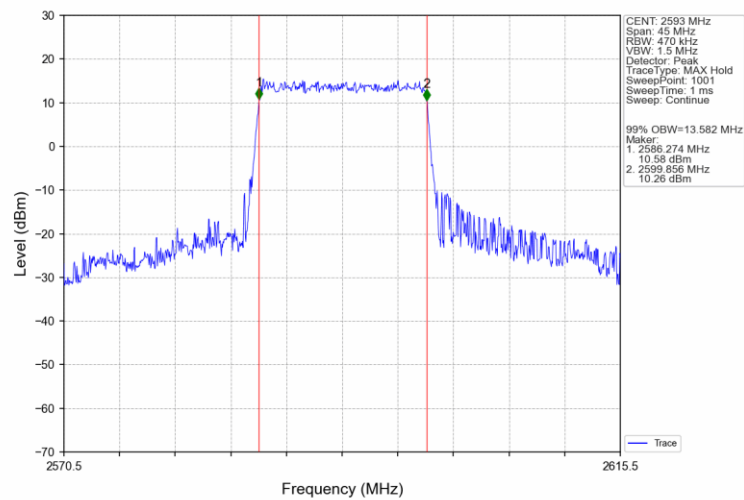
Band41 10MHz 16QAM HCH 2685MHz RB 50 0 NTN



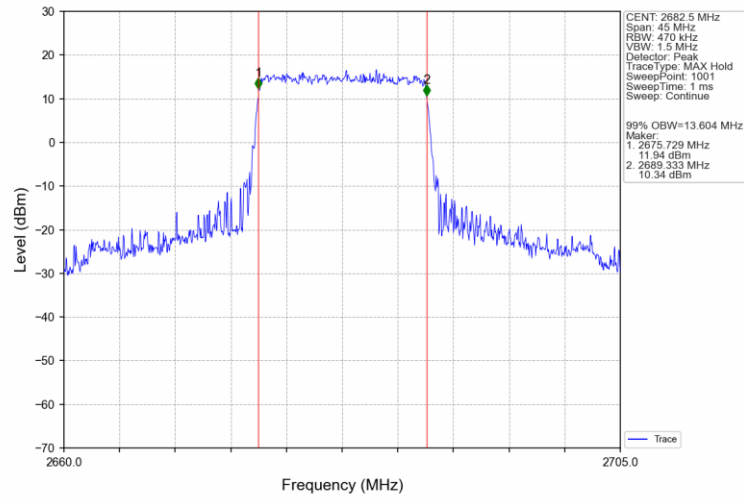
Band41_15MHz_QPSK_LCH_2503.5MHz_RB_75_0_NTNV



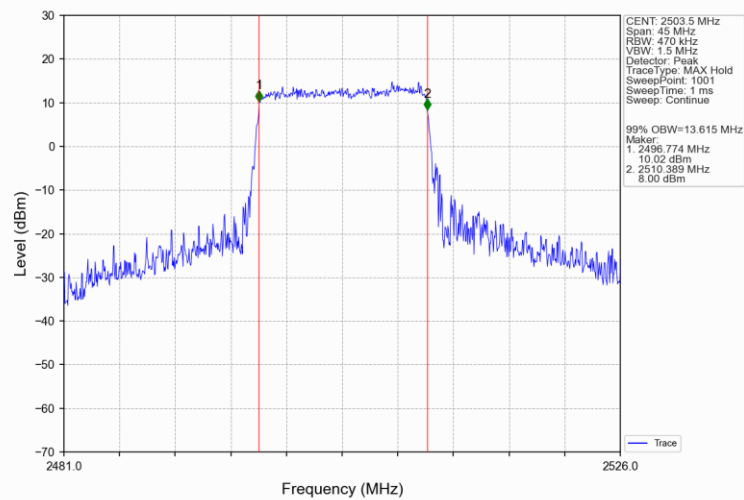
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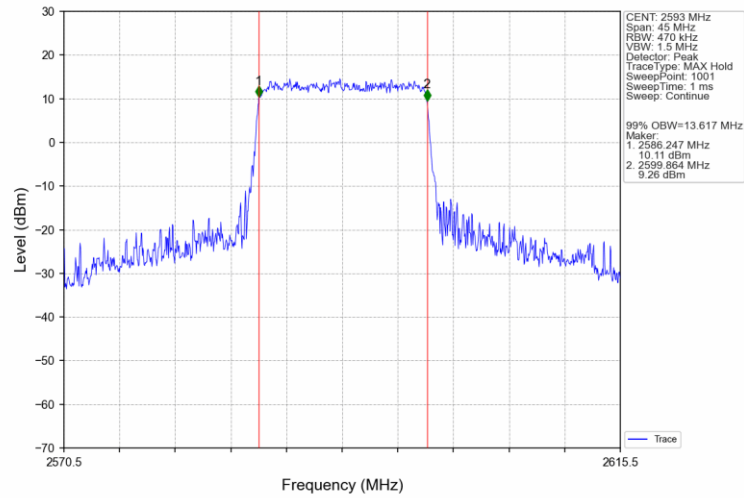
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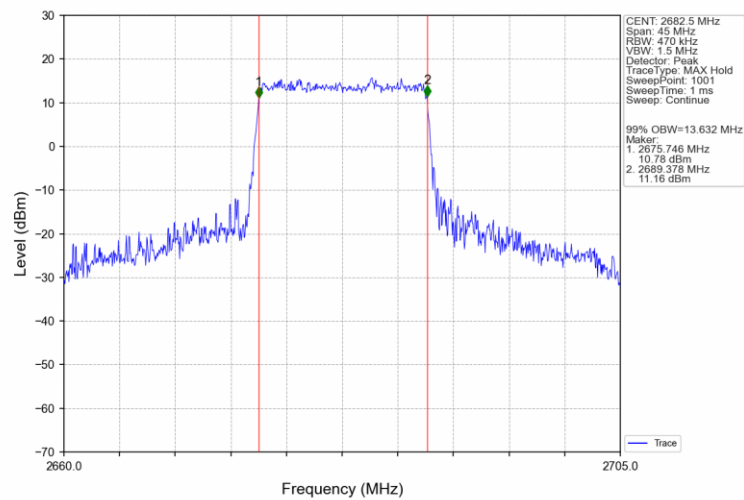
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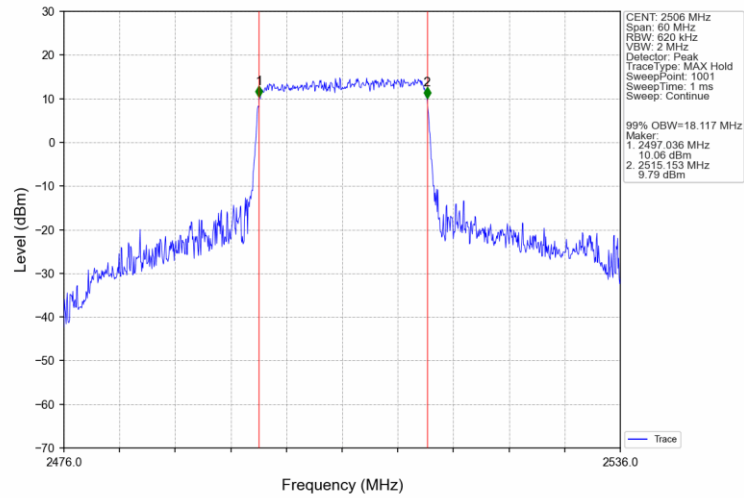
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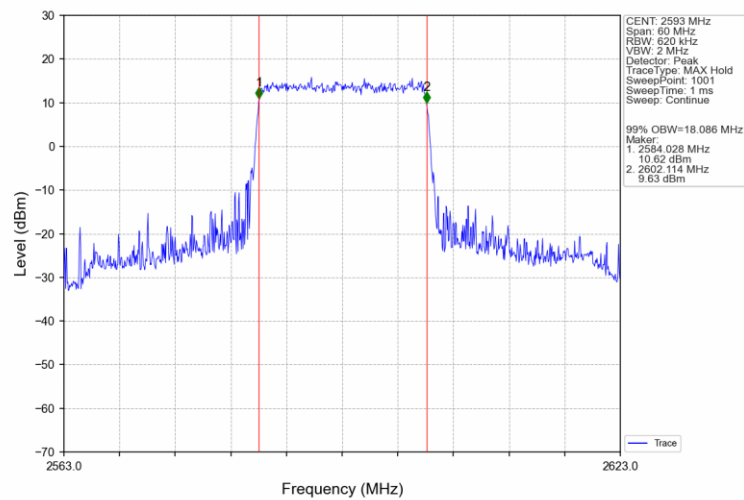
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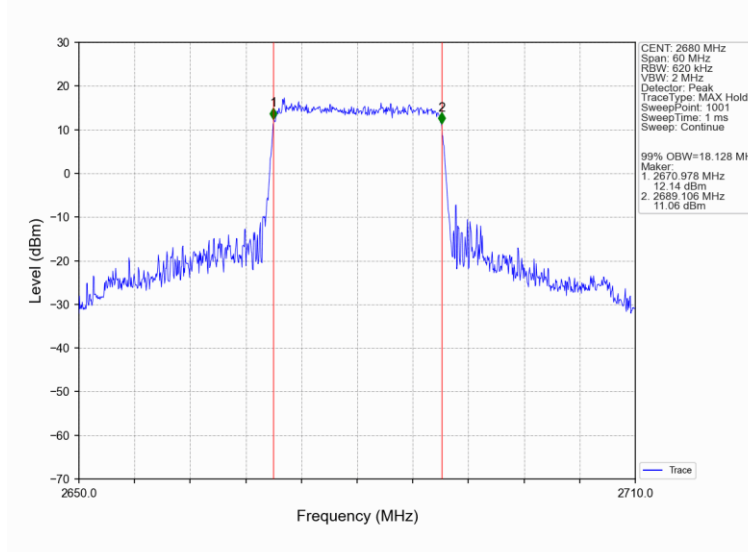
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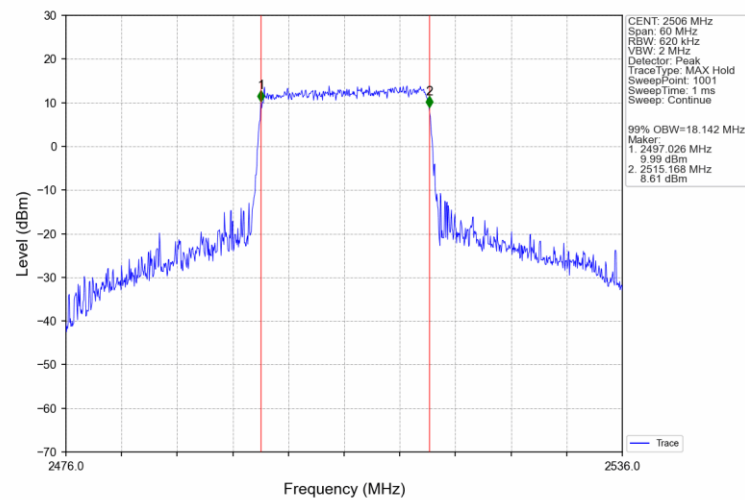
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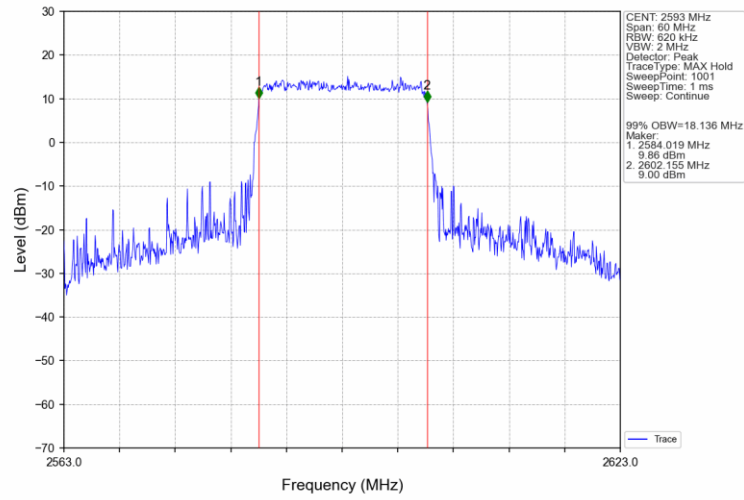
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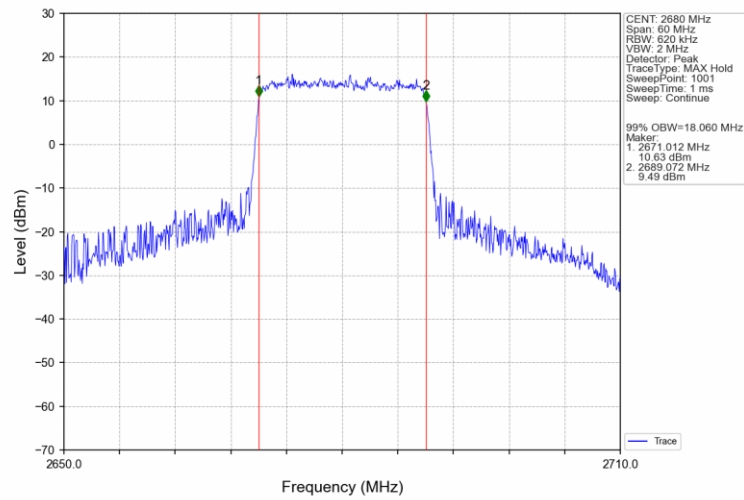
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Band41_20MHz_16QAM_MCH_2593MHz_RB_100_0_NTNV

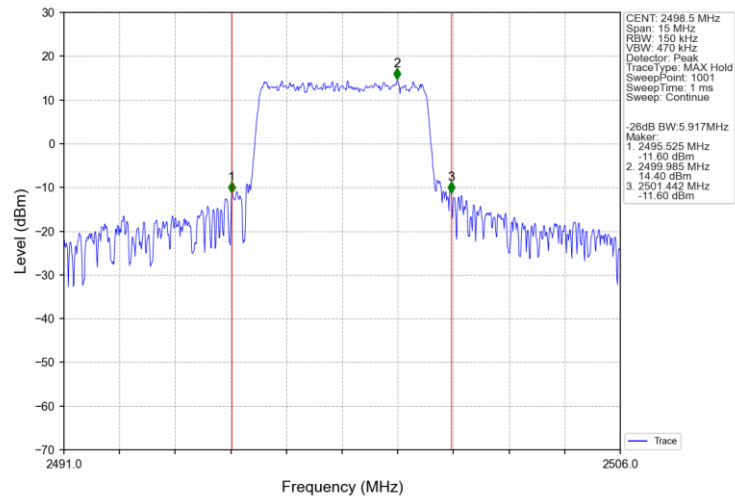


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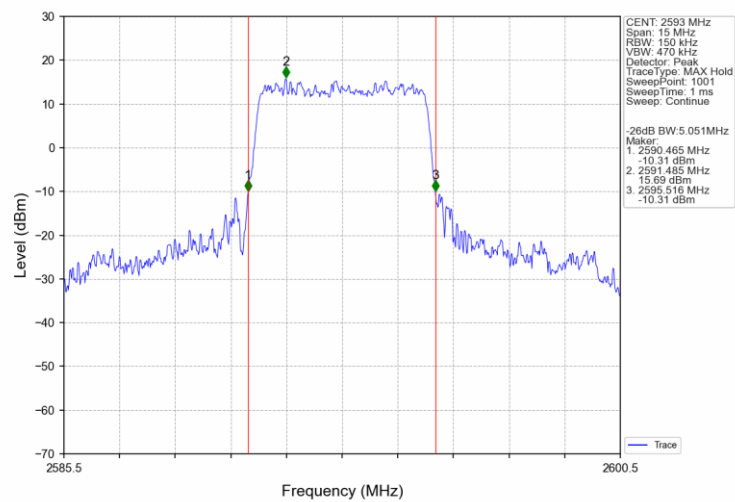


4.2.2 Band41_XDB

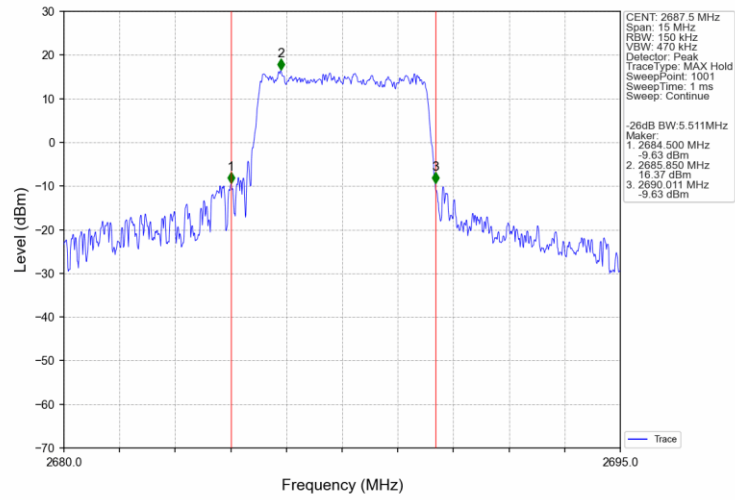
Band41_5MHz_QPSK_LCH_2498.5MHz_RB_25_0_NTNV



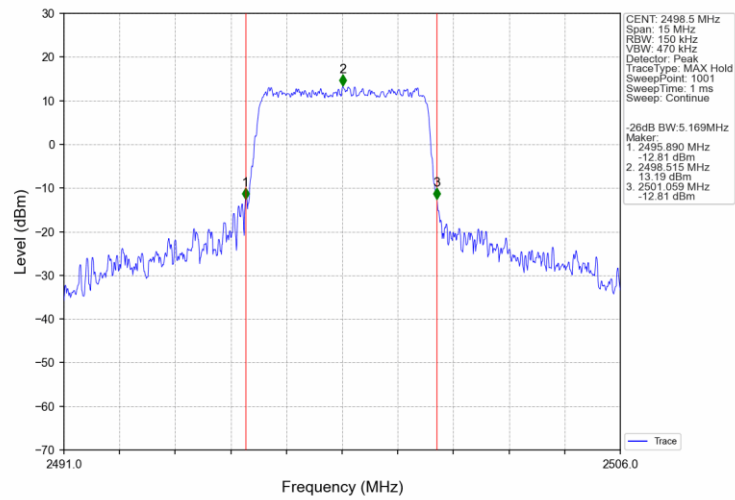
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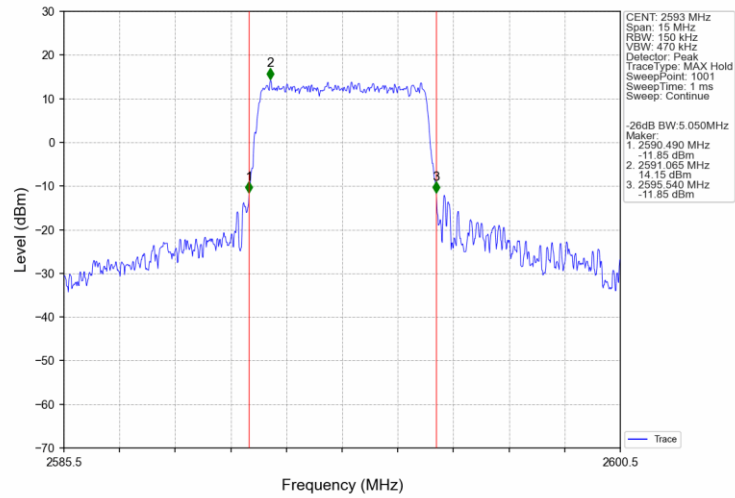
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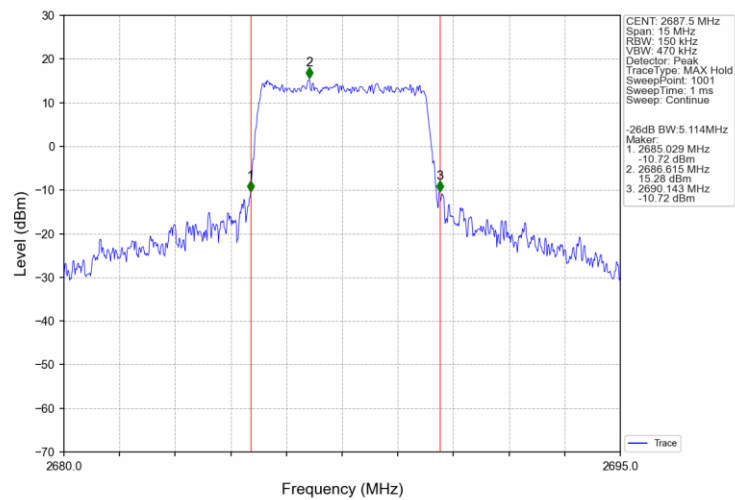
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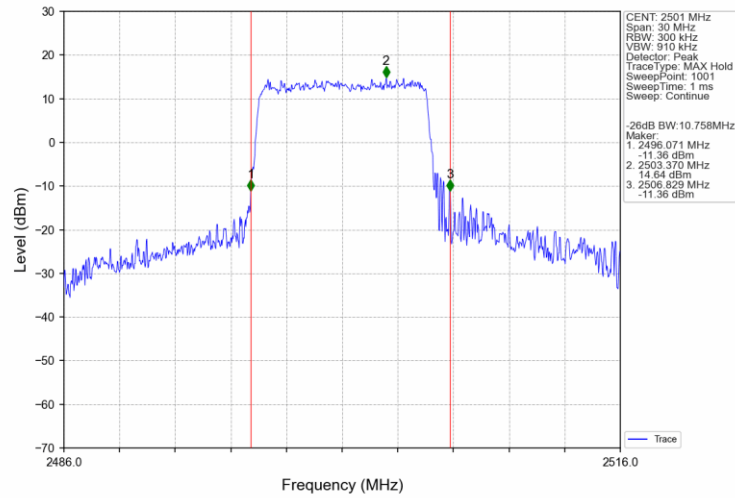
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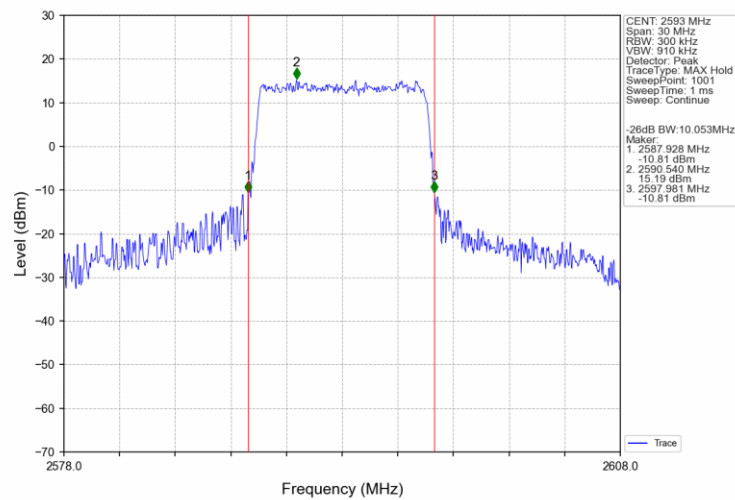
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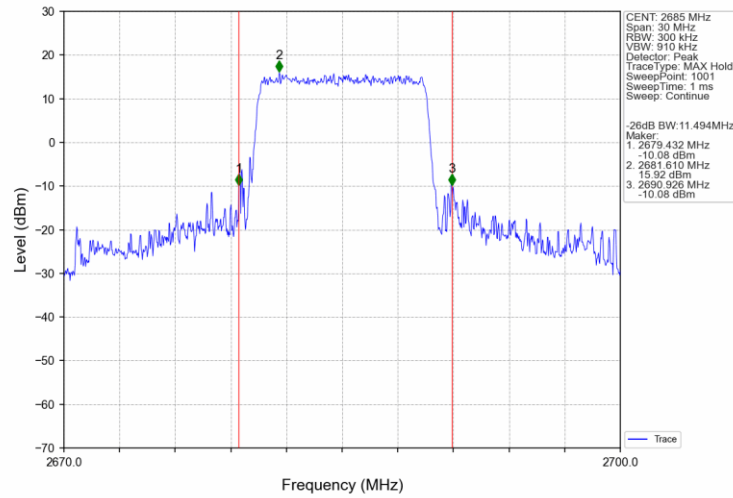
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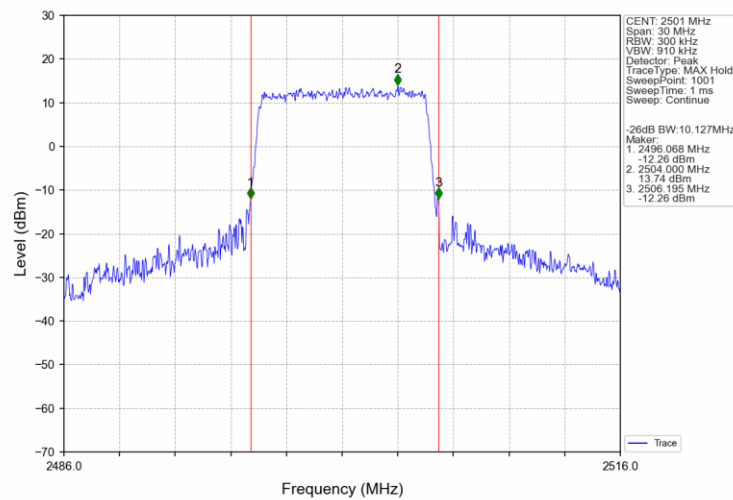
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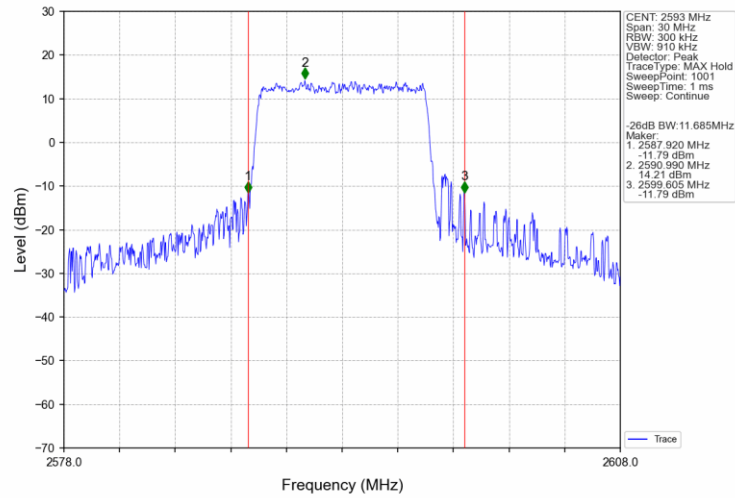
Band41 10MHz QPSK HCH 2685MHz RB 50 0 NTVN



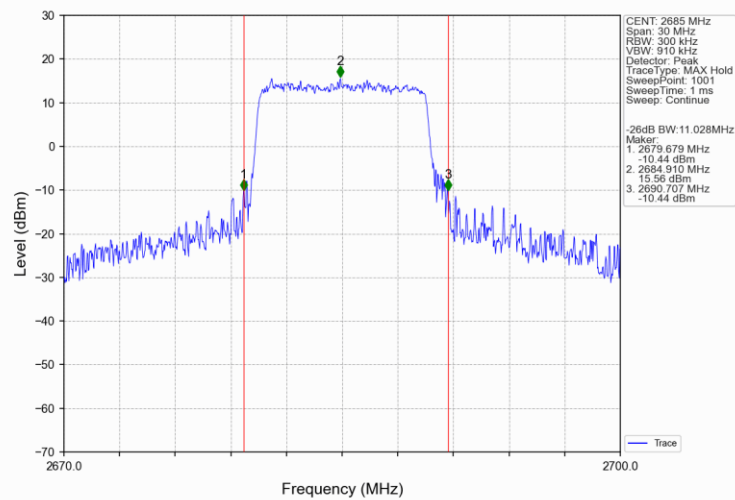
Band41 10MHz 16QAM LCH 2501MHz RB 50 0 NTVN



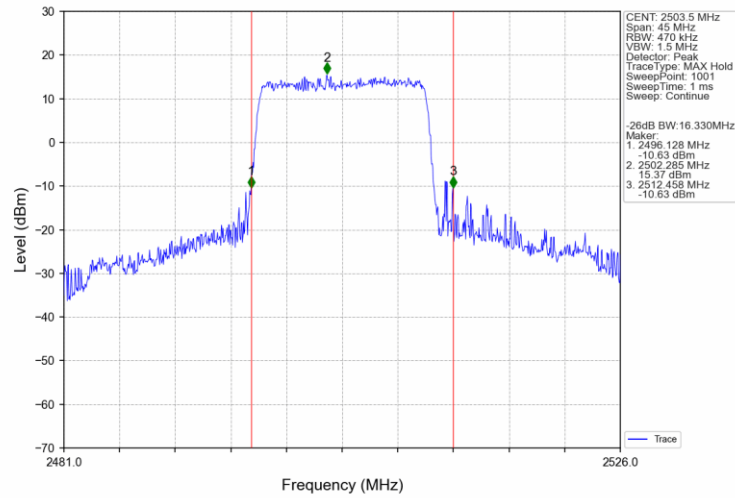
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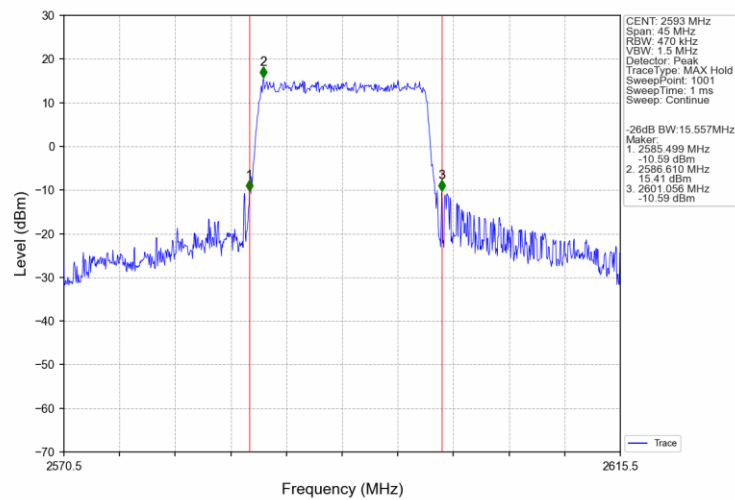
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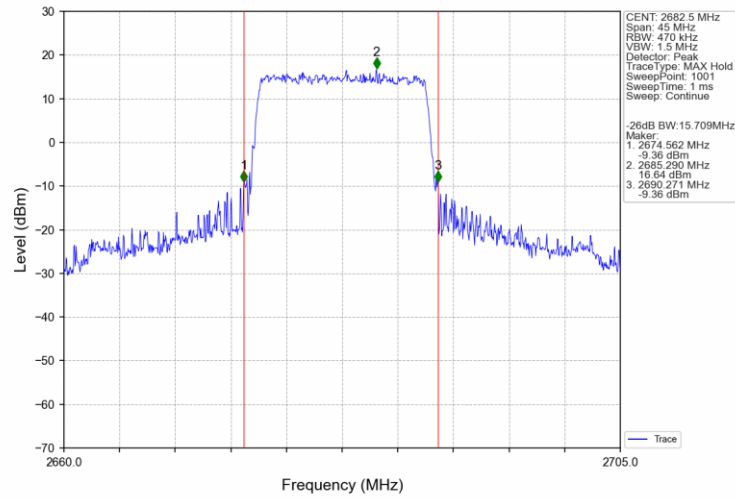
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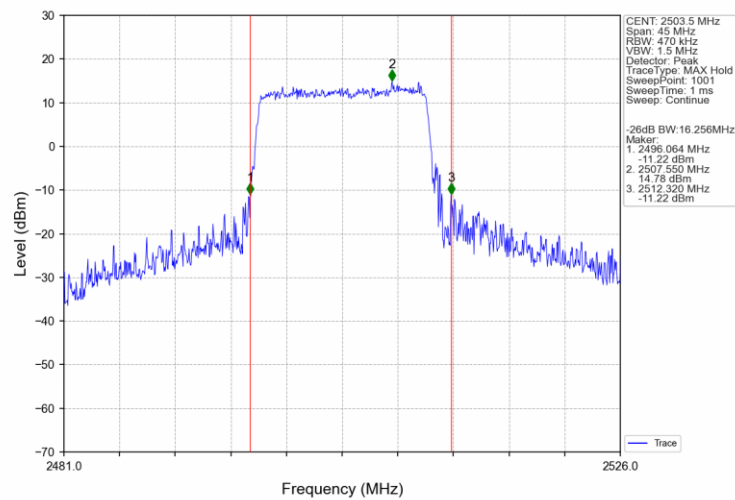
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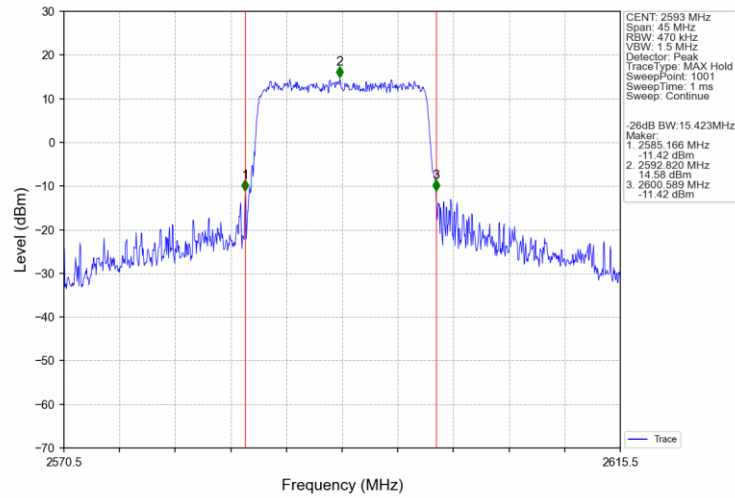
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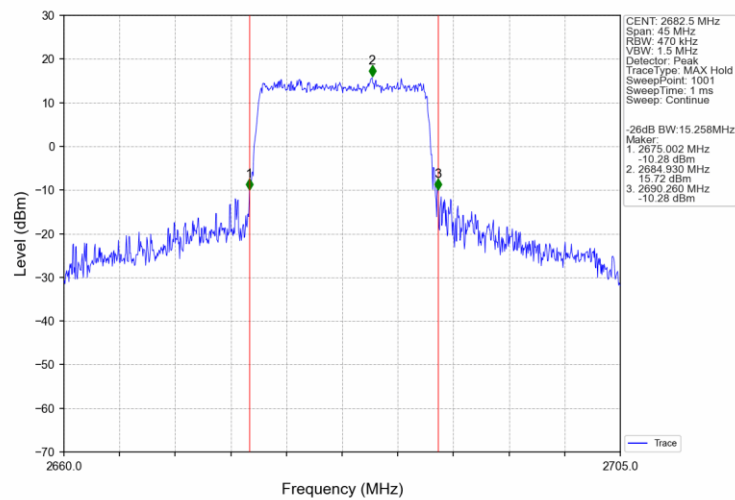
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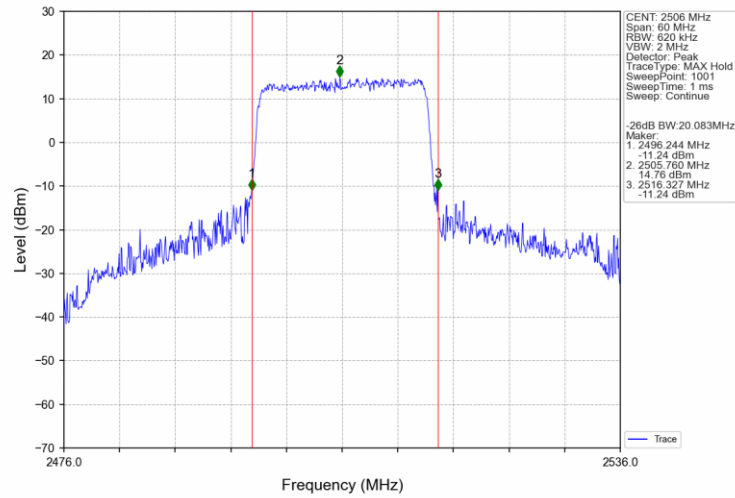
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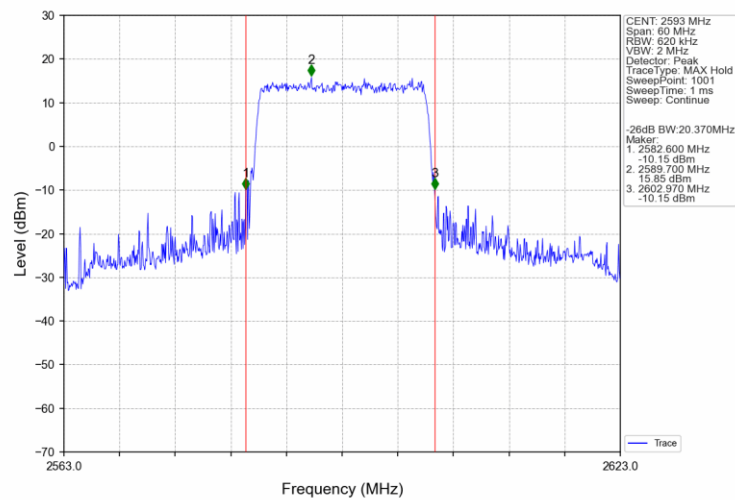
Band41_15MHz_16QAM_HCH_2682.5MHz_RB_75_0_NTNV



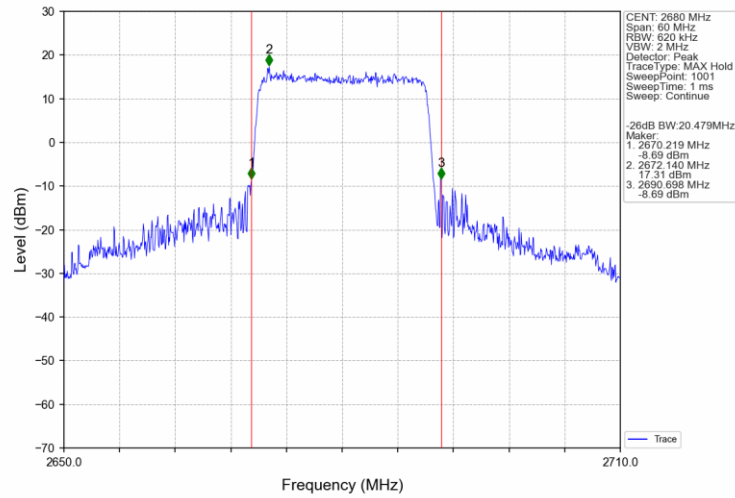
Band41 20MHz QPSK LCH 2506MHz RB 100 0 NTNV



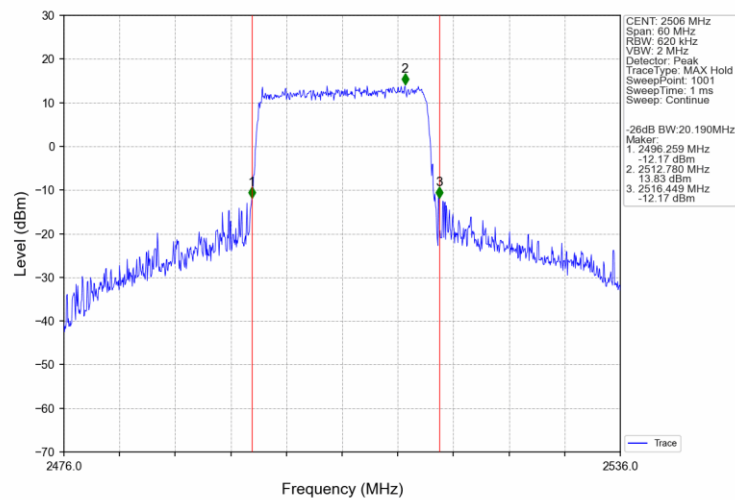
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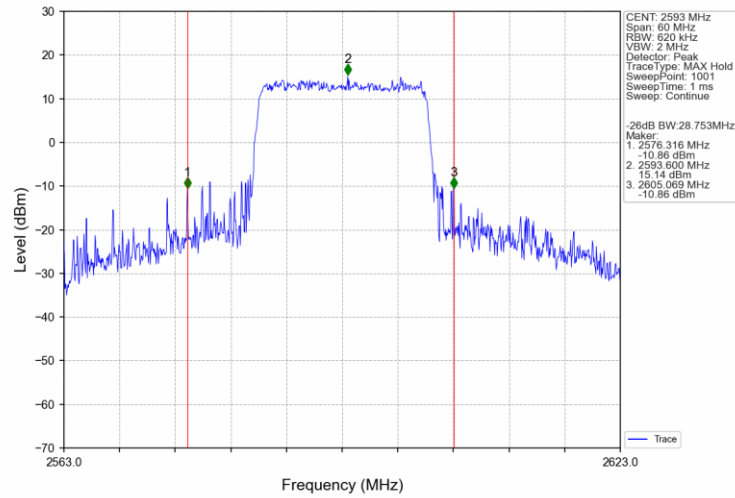
Band41_20MHz_QPSK_HCH_2680MHz_RB_100_0_NTNV



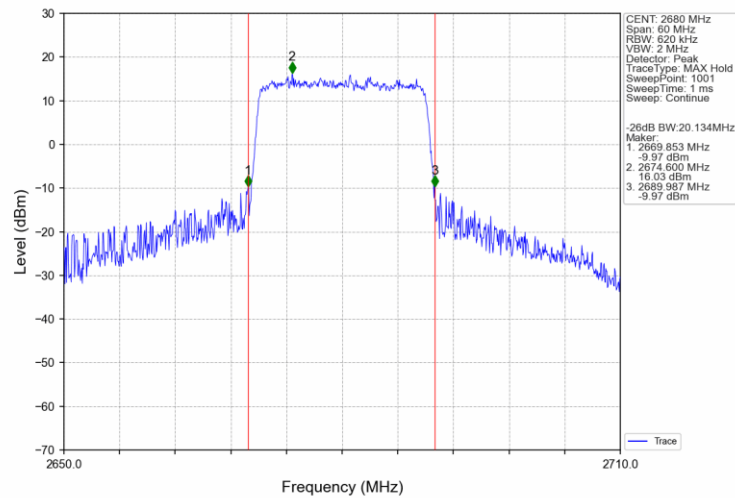
Band41_20MHz_16QAM_LCH_2506MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_MCH_2593MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_HCH_2680MHz_RB_100_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	25	0	7.35	<=13	Pass
	2593	25	0	7.46	<=13	Pass
	2687.5	25	0	7.35	<=13	Pass
16QAM	2498.5	25	0	8.04	<=13	Pass
	2593	25	0	8.13	<=13	Pass
	2687.5	25	0	7.97	<=13	Pass

5.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	50	0	7.07	<=13	Pass
	2593	50	0	7.36	<=13	Pass
	2685	50	0	7.28	<=13	Pass
16QAM	2501	50	0	8.10	<=13	Pass
	2593	50	0	8.13	<=13	Pass
	2685	50	0	8.15	<=13	Pass

5.1.3 B41_15MHz

Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	75	0	7.17	<=13	Pass
	2593	75	0	7.29	<=13	Pass
	2682.5	75	0	7.10	<=13	Pass
16QAM	2503.5	75	0	8.05	<=13	Pass
	2593	75	0	8.14	<=13	Pass
	2682.5	75	0	8.13	<=13	Pass

5.1.4 B41_20MHz

Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2506	100	0	7.68	<=13	Pass
	2593	100	0	7.77	<=13	Pass
	2680	100	0	7.67	<=13	Pass
16QAM	2506	100	0	8.61	<=13	Pass
	2593	100	0	8.54	<=13	Pass
	2680	100	0	8.66	<=13	Pass

