

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	2557.5	1	0	22.77	3.90	26.67	<=33.01	Pass
			13	22.90	3.90	26.80	<=33.01	Pass
			24	22.79	3.90	26.69	<=33.01	Pass
		12	0	21.81	3.90	25.71	<=33.01	Pass
			6	21.89	3.90	25.79	<=33.01	Pass
			13	21.80	3.90	25.70	<=33.01	Pass
		25	0	21.78	3.90	25.68	<=33.01	Pass
	2605	1	0	22.55	3.90	26.45	<=33.01	Pass
			13	22.65	3.90	26.55	<=33.01	Pass
			24	22.57	3.90	26.47	<=33.01	Pass
		12	0	21.65	3.90	25.55	<=33.01	Pass
			6	21.78	3.90	25.68	<=33.01	Pass
			13	21.67	3.90	25.57	<=33.01	Pass
		25	0	21.65	3.90	25.55	<=33.01	Pass
	2652.5	1	0	22.59	3.90	26.49	<=33.01	Pass
			13	22.75	3.90	26.65	<=33.01	Pass
			24	22.72	3.90	26.62	<=33.01	Pass
		12	0	21.70	3.90	25.60	<=33.01	Pass
			6	21.80	3.90	25.70	<=33.01	Pass
			13	21.75	3.90	25.65	<=33.01	Pass
		25	0	21.75	3.90	25.65	<=33.01	Pass
16QAM	2557.5	1	0	21.70	3.90	25.60	<=33.01	Pass
			13	21.86	3.90	25.76	<=33.01	Pass
			24	21.76	3.90	25.66	<=33.01	Pass
		12	0	20.76	3.90	24.66	<=33.01	Pass
			6	20.78	3.90	24.68	<=33.01	Pass
			13	20.73	3.90	24.63	<=33.01	Pass
		25	0	20.76	3.90	24.66	<=33.01	Pass
	2605	1	0	21.82	3.90	25.72	<=33.01	Pass
			13	21.79	3.90	25.69	<=33.01	Pass
			24	21.64	3.90	25.54	<=33.01	Pass
		12	0	20.55	3.90	24.45	<=33.01	Pass
			6	20.71	3.90	24.61	<=33.01	Pass
			13	20.65	3.90	24.55	<=33.01	Pass
		25	0	20.71	3.90	24.61	<=33.01	Pass
	2652.5	1	0	21.74	3.90	25.64	<=33.01	Pass
			13	21.91	3.90	25.81	<=33.01	Pass
			24	21.41	3.90	25.31	<=33.01	Pass
		12	0	20.65	3.90	24.55	<=33.01	Pass
			6	20.70	3.90	24.60	<=33.01	Pass
			13	20.75	3.90	24.65	<=33.01	Pass
		25	0	20.74	3.90	24.64	<=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	2560	1	0	22.75	3.90	26.65	<=33.01	Pass
			25	23.05	3.90	26.95	<=33.01	Pass
			49	22.79	3.90	26.69	<=33.01	Pass
		25	0	21.80	3.90	25.70	<=33.01	Pass
			13	21.83	3.90	25.73	<=33.01	Pass
			25	21.81	3.90	25.71	<=33.01	Pass
		50	0	21.78	3.90	25.68	<=33.01	Pass
	2605	1	0	22.67	3.90	26.57	<=33.01	Pass
			25	22.90	3.90	26.80	<=33.01	Pass
			49	22.67	3.90	26.57	<=33.01	Pass
		25	0	21.66	3.90	25.56	<=33.01	Pass
			13	21.69	3.90	25.59	<=33.01	Pass
			25	21.71	3.90	25.61	<=33.01	Pass
		50	0	21.67	3.90	25.57	<=33.01	Pass
	2650	1	0	22.64	3.90	26.54	<=33.01	Pass
			25	22.92	3.90	26.82	<=33.01	Pass
			49	22.75	3.90	26.65	<=33.01	Pass
		25	0	21.72	3.90	25.62	<=33.01	Pass
			13	21.77	3.90	25.67	<=33.01	Pass
			25	21.76	3.90	25.66	<=33.01	Pass
		50	0	21.77	3.90	25.67	<=33.01	Pass
16QAM	2560	1	0	21.66	3.90	25.56	<=33.01	Pass
			25	21.82	3.90	25.72	<=33.01	Pass
			49	21.70	3.90	25.60	<=33.01	Pass
		25	0	20.70	3.90	24.60	<=33.01	Pass
			13	20.77	3.90	24.67	<=33.01	Pass
			25	20.76	3.90	24.66	<=33.01	Pass
		50	0	20.75	3.90	24.65	<=33.01	Pass
	2605	1	0	21.43	3.90	25.33	<=33.01	Pass
			25	21.69	3.90	25.59	<=33.01	Pass
			49	21.54	3.90	25.44	<=33.01	Pass
		25	0	20.67	3.90	24.57	<=33.01	Pass
			13	20.70	3.90	24.60	<=33.01	Pass
			25	20.71	3.90	24.61	<=33.01	Pass
		50	0	20.64	3.90	24.54	<=33.01	Pass
	2650	1	0	21.63	3.90	25.53	<=33.01	Pass
			25	21.98	3.90	25.88	<=33.01	Pass
			49	21.79	3.90	25.69	<=33.01	Pass
		25	0	20.69	3.90	24.59	<=33.01	Pass
			13	20.75	3.90	24.65	<=33.01	Pass
			25	20.77	3.90	24.67	<=33.01	Pass
		50	0	20.67	3.90	24.57	<=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	2562.5	1	0	22.72	3.90	26.62	<=33.01	Pass
			38	22.83	3.90	26.73	<=33.01	Pass
			74	22.78	3.90	26.68	<=33.01	Pass
		36	0	21.83	3.90	25.73	<=33.01	Pass
			18	21.85	3.90	25.75	<=33.01	Pass
			39	21.84	3.90	25.74	<=33.01	Pass
		75	0	21.83	3.90	25.73	<=33.01	Pass
	2605	1	0	22.64	3.90	26.54	<=33.01	Pass
			38	22.67	3.90	26.57	<=33.01	Pass
			74	22.59	3.90	26.49	<=33.01	Pass
		36	0	21.71	3.90	25.61	<=33.01	Pass
			18	21.74	3.90	25.64	<=33.01	Pass
			39	21.76	3.90	25.66	<=33.01	Pass
		75	0	21.71	3.90	25.61	<=33.01	Pass
	2647.5	1	0	22.63	3.90	26.53	<=33.01	Pass
			38	22.73	3.90	26.63	<=33.01	Pass
			74	22.62	3.90	26.52	<=33.01	Pass
		36	0	21.74	3.90	25.64	<=33.01	Pass
			18	21.80	3.90	25.70	<=33.01	Pass
			39	21.81	3.90	25.71	<=33.01	Pass
		75	0	21.78	3.90	25.68	<=33.01	Pass
16QAM	2562.5	1	0	21.98	3.90	25.88	<=33.01	Pass
			38	21.79	3.90	25.69	<=33.01	Pass
			74	22.02	3.90	25.92	<=33.01	Pass
		36	0	20.71	3.90	24.61	<=33.01	Pass
			18	20.79	3.90	24.69	<=33.01	Pass
			39	20.82	3.90	24.72	<=33.01	Pass
		75	0	20.80	3.90	24.70	<=33.01	Pass
	2605	1	0	21.35	3.90	25.25	<=33.01	Pass
			38	21.66	3.90	25.56	<=33.01	Pass
			74	21.48	3.90	25.38	<=33.01	Pass
		36	0	20.65	3.90	24.55	<=33.01	Pass
			18	20.68	3.90	24.58	<=33.01	Pass
			39	20.65	3.90	24.55	<=33.01	Pass
		75	0	20.66	3.90	24.56	<=33.01	Pass
	2647.5	1	0	21.72	3.90	25.62	<=33.01	Pass
			38	21.81	3.90	25.71	<=33.01	Pass
			74	21.72	3.90	25.62	<=33.01	Pass
		36	0	20.66	3.90	24.56	<=33.01	Pass
			18	20.70	3.90	24.60	<=33.01	Pass
			39	20.75	3.90	24.65	<=33.01	Pass
		75	0	20.73	3.90	24.63	<=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	2565	1	0	22.53	3.90	26.43	<=33.01	Pass
			50	22.98	3.90	26.88	<=33.01	Pass
			99	22.53	3.90	26.43	<=33.01	Pass
		50	0	21.67	3.90	25.57	<=33.01	Pass
			25	21.76	3.90	25.66	<=33.01	Pass
			50	21.75	3.90	25.65	<=33.01	Pass
		100	0	21.69	3.90	25.59	<=33.01	Pass
	2605	1	0	22.29	3.90	26.19	<=33.01	Pass
			50	22.70	3.90	26.60	<=33.01	Pass
			99	22.43	3.90	26.33	<=33.01	Pass
		50	0	21.60	3.90	25.50	<=33.01	Pass
			25	21.70	3.90	25.60	<=33.01	Pass
			50	21.68	3.90	25.58	<=33.01	Pass
		100	0	21.64	3.90	25.54	<=33.01	Pass
	2645	1	0	22.48	3.90	26.38	<=33.01	Pass
			50	22.96	3.90	26.86	<=33.01	Pass
			99	22.47	3.90	26.37	<=33.01	Pass
		50	0	21.60	3.90	25.50	<=33.01	Pass
			25	21.75	3.90	25.65	<=33.01	Pass
			50	21.76	3.90	25.66	<=33.01	Pass
		100	0	21.71	3.90	25.61	<=33.01	Pass
16QAM	2565	1	0	21.51	3.90	25.41	<=33.01	Pass
			50	21.44	3.90	25.34	<=33.01	Pass
			99	21.59	3.90	25.49	<=33.01	Pass
		50	0	20.61	3.90	24.51	<=33.01	Pass
			25	20.77	3.90	24.67	<=33.01	Pass
			50	20.76	3.90	24.66	<=33.01	Pass
		100	0	20.68	3.90	24.58	<=33.01	Pass
	2605	1	0	21.58	3.90	25.48	<=33.01	Pass
			50	21.59	3.90	25.49	<=33.01	Pass
			99	21.15	3.90	25.05	<=33.01	Pass
		50	0	20.58	3.90	24.48	<=33.01	Pass
			25	20.68	3.90	24.58	<=33.01	Pass
			50	20.74	3.90	24.64	<=33.01	Pass
		100	0	20.65	3.90	24.55	<=33.01	Pass
	2645	1	0	21.49	3.90	25.39	<=33.01	Pass
			50	21.85	3.90	25.75	<=33.01	Pass
			99	21.81	3.90	25.71	<=33.01	Pass
		50	0	20.58	3.90	24.48	<=33.01	Pass
			25	20.74	3.90	24.64	<=33.01	Pass
			50	20.77	3.90	24.67	<=33.01	Pass
		100	0	20.71	3.90	24.61	<=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 (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2557.5	25	0	20	102	-3.777	-0.0015	-2.5 to 2.5	Pass
					120	-8.011	-0.0031	-2.5 to 2.5	Pass
					138	-7.167	-0.0028	-2.5 to 2.5	Pass
				-30	120	-13.447	-0.0053	-2.5 to 2.5	Pass
				-20	120	1.087	0.0004	-2.5 to 2.5	Pass
				-10	120	-5.908	-0.0023	-2.5 to 2.5	Pass
				0	120	-4.148	-0.0016	-2.5 to 2.5	Pass
				10	120	-9.012	-0.0035	-2.5 to 2.5	Pass
				30	120	-16.208	-0.0063	-2.5 to 2.5	Pass
				40	120	-11.058	-0.0043	-2.5 to 2.5	Pass
				50	120	-4.263	-0.0017	-2.5 to 2.5	Pass
	2605	25	0	20	102	15.149	0.0058	-2.5 to 2.5	Pass
					120	6.337	0.0024	-2.5 to 2.5	Pass
					138	-4.821	-0.0019	-2.5 to 2.5	Pass
				-30	120	0.143	0.0001	-2.5 to 2.5	Pass
				-20	120	-15.635	-0.0060	-2.5 to 2.5	Pass
				-10	120	-1.631	-0.0006	-2.5 to 2.5	Pass
				0	120	-4.420	-0.0017	-2.5 to 2.5	Pass
				10	120	-1.144	-0.0004	-2.5 to 2.5	Pass
				30	120	-15.092	-0.0058	-2.5 to 2.5	Pass
				40	120	-11.101	-0.0043	-2.5 to 2.5	Pass
				50	120	-10.328	-0.0040	-2.5 to 2.5	Pass
	2652.5	25	0	20	102	-9.356	-0.0035	-2.5 to 2.5	Pass
					120	-22.216	-0.0084	-2.5 to 2.5	Pass
					138	-19.312	-0.0073	-2.5 to 2.5	Pass
				-30	120	-27.494	-0.0104	-2.5 to 2.5	Pass
				-20	120	-23.389	-0.0088	-2.5 to 2.5	Pass
				-10	120	-35.834	-0.0135	-2.5 to 2.5	Pass
				0	120	-26.693	-0.0101	-2.5 to 2.5	Pass
				10	120	-27.852	-0.0105	-2.5 to 2.5	Pass
				30	120	-27.351	-0.0103	-2.5 to 2.5	Pass
				40	120	-36.078	-0.0136	-2.5 to 2.5	Pass
16QAM	2557.5	25	0	20	102	-12.274	-0.0048	-2.5 to 2.5	Pass
					120	-8.125	-0.0032	-2.5 to 2.5	Pass
					138	-22.402	-0.0088	-2.5 to 2.5	Pass
				-30	120	-12.946	-0.0051	-2.5 to 2.5	Pass
				-20	120	-15.922	-0.0062	-2.5 to 2.5	Pass
				-10	120	-14.019	-0.0055	-2.5 to 2.5	Pass
				0	120	-8.368	-0.0033	-2.5 to 2.5	Pass
				10	120	-9.456	-0.0037	-2.5 to 2.5	Pass
				30	120	-11.444	-0.0045	-2.5 to 2.5	Pass
				40	120	-15.764	-0.0062	-2.5 to 2.5	Pass
				50	120	-12.889	-0.0050	-2.5 to 2.5	Pass
	2605	25	0	20	102	-11.673	-0.0045	-2.5 to 2.5	Pass
					120	-6.566	-0.0025	-2.5 to 2.5	Pass
					138	-19.040	-0.0073	-2.5 to 2.5	Pass
				-30	120	-18.368	-0.0071	-2.5 to 2.5	Pass
				-20	120	-22.960	-0.0088	-2.5 to 2.5	Pass
				-10	120	-21.486	-0.0082	-2.5 to 2.5	Pass

				0	120	-28.152	-0.0108	-2.5 to 2.5	Pass
				10	120	-19.526	-0.0075	-2.5 to 2.5	Pass
				30	120	-19.684	-0.0076	-2.5 to 2.5	Pass
				40	120	-12.531	-0.0048	-2.5 to 2.5	Pass
				50	120	-20.399	-0.0078	-2.5 to 2.5	Pass
	2652.5	25	0	20	102	-25.949	-0.0098	-2.5 to 2.5	Pass
					120	-30.642	-0.0116	-2.5 to 2.5	Pass
					138	-23.189	-0.0087	-2.5 to 2.5	Pass
				-30	120	-30.384	-0.0115	-2.5 to 2.5	Pass
				-20	120	-37.508	-0.0141	-2.5 to 2.5	Pass
				-10	120	-32.916	-0.0124	-2.5 to 2.5	Pass
				0	120	-38.509	-0.0145	-2.5 to 2.5	Pass
				10	120	-34.490	-0.0130	-2.5 to 2.5	Pass
				30	120	-48.208	-0.0182	-2.5 to 2.5	Pass
				40	120	-35.634	-0.0134	-2.5 to 2.5	Pass
				50	120	-38.052	-0.0143	-2.5 to 2.5	Pass

2.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2560	50	0	20	102	-2.275	-0.0009	-2.5 to 2.5	Pass
					120	-9.613	-0.0038	-2.5 to 2.5	Pass
					138	-5.593	-0.0022	-2.5 to 2.5	Pass
				-30	120	-2.618	-0.0010	-2.5 to 2.5	Pass
				-20	120	-9.713	-0.0038	-2.5 to 2.5	Pass
				-10	120	-5.908	-0.0023	-2.5 to 2.5	Pass
				0	120	-15.020	-0.0059	-2.5 to 2.5	Pass
				10	120	-3.490	-0.0014	-2.5 to 2.5	Pass
				30	120	-9.127	-0.0036	-2.5 to 2.5	Pass
				40	120	-11.215	-0.0044	-2.5 to 2.5	Pass
	2605	50	0	20	102	-1.945	-0.0008	-2.5 to 2.5	Pass
					120	-4.435	-0.0017	-2.5 to 2.5	Pass
					138	-7.982	-0.0031	-2.5 to 2.5	Pass
				-30	120	-6.094	-0.0023	-2.5 to 2.5	Pass
				-20	120	-14.749	-0.0057	-2.5 to 2.5	Pass
				-10	120	-3.791	-0.0015	-2.5 to 2.5	Pass
				-10	120	-12.116	-0.0047	-2.5 to 2.5	Pass
				0	120	-9.856	-0.0038	-2.5 to 2.5	Pass
				10	120	-8.969	-0.0034	-2.5 to 2.5	Pass
				30	120	-8.969	-0.0034	-2.5 to 2.5	Pass
	2650	50	0	20	102	-10.901	-0.0042	-2.5 to 2.5	Pass
					120	-14.834	-0.0057	-2.5 to 2.5	Pass
					138	-6.037	-0.0023	-2.5 to 2.5	Pass
				-30	120	-5.221	-0.0020	-2.5 to 2.5	Pass
				-20	120	-8.082	-0.0030	-2.5 to 2.5	Pass
				-10	120	-4.535	-0.0017	-2.5 to 2.5	Pass
				-10	120	-0.043	0.0000	-2.5 to 2.5	Pass
				-20	120	-3.090	-0.0012	-2.5 to 2.5	Pass
				-10	120	-8.583	-0.0032	-2.5 to 2.5	Pass
				0	120	-12.832	-0.0048	-2.5 to 2.5	Pass
16QAM	2560	50	0	20	102	-8.926	-0.0034	-2.5 to 2.5	Pass
					120	-19.670	-0.0074	-2.5 to 2.5	Pass
					138	-6.723	-0.0025	-2.5 to 2.5	Pass
					138	0.086	0.0000	-2.5 to 2.5	Pass

				-30	120	-9.155	-0.0036	-2.5 to 2.5	Pass
				-20	120	-10.428	-0.0041	-2.5 to 2.5	Pass
				-10	120	-4.578	-0.0018	-2.5 to 2.5	Pass
				0	120	-15.020	-0.0059	-2.5 to 2.5	Pass
				10	120	-6.752	-0.0026	-2.5 to 2.5	Pass
				30	120	-6.967	-0.0027	-2.5 to 2.5	Pass
				40	120	-4.005	-0.0016	-2.5 to 2.5	Pass
				50	120	-14.763	-0.0058	-2.5 to 2.5	Pass
	2605	50	0	20	102	-18.497	-0.0071	-2.5 to 2.5	Pass
					120	-14.334	-0.0055	-2.5 to 2.5	Pass
					138	-10.085	-0.0039	-2.5 to 2.5	Pass
				-30	120	-22.173	-0.0085	-2.5 to 2.5	Pass
				-20	120	-11.988	-0.0046	-2.5 to 2.5	Pass
				-10	120	-13.661	-0.0052	-2.5 to 2.5	Pass
				0	120	-7.453	-0.0029	-2.5 to 2.5	Pass
				10	120	-15.864	-0.0061	-2.5 to 2.5	Pass
				30	120	-8.512	-0.0033	-2.5 to 2.5	Pass
				40	120	-11.015	-0.0042	-2.5 to 2.5	Pass
				50	120	-7.281	-0.0028	-2.5 to 2.5	Pass
	2650	50	0	20	102	-13.790	-0.0052	-2.5 to 2.5	Pass
					120	-16.236	-0.0061	-2.5 to 2.5	Pass
					138	-7.582	-0.0029	-2.5 to 2.5	Pass
				-30	120	-12.875	-0.0049	-2.5 to 2.5	Pass
				-20	120	-17.166	-0.0065	-2.5 to 2.5	Pass
				-10	120	-6.938	-0.0026	-2.5 to 2.5	Pass
				0	120	-13.704	-0.0052	-2.5 to 2.5	Pass
				10	120	-9.484	-0.0036	-2.5 to 2.5	Pass
				30	120	-6.967	-0.0026	-2.5 to 2.5	Pass
				40	120	-11.802	-0.0045	-2.5 to 2.5	Pass
				50	120	-9.499	-0.0036	-2.5 to 2.5	Pass

2.1.3 B41_15MHz

Band: 41 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2562.5	75	0	20	102	-7.854	-0.0031	-2.5 to 2.5	Pass
					120	-3.934	-0.0015	-2.5 to 2.5	Pass
					138	-12.159	-0.0047	-2.5 to 2.5	Pass
				-30	120	-12.932	-0.0050	-2.5 to 2.5	Pass
				-20	120	-12.116	-0.0047	-2.5 to 2.5	Pass
				-10	120	-11.888	-0.0046	-2.5 to 2.5	Pass
				0	120	-9.184	-0.0036	-2.5 to 2.5	Pass
				10	120	-9.670	-0.0038	-2.5 to 2.5	Pass
				30	120	-8.054	-0.0031	-2.5 to 2.5	Pass
				40	120	-10.915	-0.0043	-2.5 to 2.5	Pass
				50	120	-12.889	-0.0050	-2.5 to 2.5	Pass
	2605	75	0	20	102	-11.029	-0.0042	-2.5 to 2.5	Pass
					120	-7.110	-0.0027	-2.5 to 2.5	Pass
					138	-9.098	-0.0035	-2.5 to 2.5	Pass
				-30	120	-2.389	-0.0009	-2.5 to 2.5	Pass
				-20	120	-12.159	-0.0047	-2.5 to 2.5	Pass
				-10	120	-8.612	-0.0033	-2.5 to 2.5	Pass
				0	120	-11.659	-0.0045	-2.5 to 2.5	Pass
				10	120	-8.826	-0.0034	-2.5 to 2.5	Pass
				30	120	-17.009	-0.0065	-2.5 to 2.5	Pass
				40	120	-8.068	-0.0031	-2.5 to 2.5	Pass
				50	120	-5.364	-0.0021	-2.5 to 2.5	Pass

	2647.5	75	0	20	102	-8.612	-0.0033	-2.5 to 2.5	Pass
					120	-5.364	-0.0020	-2.5 to 2.5	Pass
					138	-1.645	-0.0006	-2.5 to 2.5	Pass
				-30	120	-3.033	-0.0011	-2.5 to 2.5	Pass
				-20	120	-2.346	-0.0009	-2.5 to 2.5	Pass
				-10	120	-9.799	-0.0037	-2.5 to 2.5	Pass
				0	120	-5.221	-0.0020	-2.5 to 2.5	Pass
				10	120	-2.360	-0.0009	-2.5 to 2.5	Pass
				30	120	-8.969	-0.0034	-2.5 to 2.5	Pass
				40	120	-4.992	-0.0019	-2.5 to 2.5	Pass
				50	120	-10.614	-0.0040	-2.5 to 2.5	Pass
16QAM	2562.5	75	0	20	102	-7.968	-0.0031	-2.5 to 2.5	Pass
					120	-12.560	-0.0049	-2.5 to 2.5	Pass
					138	-7.067	-0.0028	-2.5 to 2.5	Pass
				-30	120	-18.082	-0.0071	-2.5 to 2.5	Pass
				-20	120	-11.716	-0.0046	-2.5 to 2.5	Pass
				-10	120	-10.042	-0.0039	-2.5 to 2.5	Pass
				0	120	-5.021	-0.0020	-2.5 to 2.5	Pass
				10	120	-9.456	-0.0037	-2.5 to 2.5	Pass
				30	120	-13.275	-0.0052	-2.5 to 2.5	Pass
				40	120	-7.968	-0.0031	-2.5 to 2.5	Pass
				50	120	-3.648	-0.0014	-2.5 to 2.5	Pass
	2605	75	0	20	102	-6.223	-0.0024	-2.5 to 2.5	Pass
					120	-6.680	-0.0026	-2.5 to 2.5	Pass
					138	-3.991	-0.0015	-2.5 to 2.5	Pass
				-30	120	-14.019	-0.0054	-2.5 to 2.5	Pass
				-20	120	-10.514	-0.0040	-2.5 to 2.5	Pass
				-10	120	-11.630	-0.0045	-2.5 to 2.5	Pass
				0	120	-8.454	-0.0032	-2.5 to 2.5	Pass
				10	120	-6.795	-0.0026	-2.5 to 2.5	Pass
				30	120	-6.509	-0.0025	-2.5 to 2.5	Pass
				40	120	-10.915	-0.0042	-2.5 to 2.5	Pass
				50	120	-10.228	-0.0039	-2.5 to 2.5	Pass
	2647.5	75	0	20	102	-10.858	-0.0041	-2.5 to 2.5	Pass
					120	-2.189	-0.0008	-2.5 to 2.5	Pass
					138	-7.625	-0.0029	-2.5 to 2.5	Pass
				-30	120	3.991	0.0015	-2.5 to 2.5	Pass
				-20	120	-6.166	-0.0023	-2.5 to 2.5	Pass
				-10	120	-15.893	-0.0060	-2.5 to 2.5	Pass
				0	120	-14.548	-0.0055	-2.5 to 2.5	Pass
				10	120	-4.606	-0.0017	-2.5 to 2.5	Pass
				30	120	-9.084	-0.0034	-2.5 to 2.5	Pass
				40	120	-6.180	-0.0023	-2.5 to 2.5	Pass
				50	120	-6.223	-0.0024	-2.5 to 2.5	Pass

2.1.4 B41_20MHz

Band: 41 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2565	100	0	20	102	-10.858	-0.0042	-2.5 to 2.5	Pass
					120	-9.069	-0.0035	-2.5 to 2.5	Pass
					138	-8.383	-0.0033	-2.5 to 2.5	Pass
				-30	120	-13.633	-0.0053	-2.5 to 2.5	Pass
				-20	120	-8.941	-0.0035	-2.5 to 2.5	Pass
				-10	120	-14.277	-0.0056	-2.5 to 2.5	Pass
				0	120	-7.324	-0.0029	-2.5 to 2.5	Pass
				10	120	-13.361	-0.0052	-2.5 to 2.5	Pass

				30	120	-5.093	-0.0020	-2.5 to 2.5	Pass
				40	120	-4.606	-0.0018	-2.5 to 2.5	Pass
				50	120	-11.358	-0.0044	-2.5 to 2.5	Pass
	2605	100	0	20	102	-12.016	-0.0046	-2.5 to 2.5	Pass
					120	-15.936	-0.0061	-2.5 to 2.5	Pass
					138	-8.755	-0.0034	-2.5 to 2.5	Pass
				-30	120	-13.132	-0.0050	-2.5 to 2.5	Pass
				-20	120	-9.599	-0.0037	-2.5 to 2.5	Pass
				-10	120	-11.358	-0.0044	-2.5 to 2.5	Pass
				0	120	-11.001	-0.0042	-2.5 to 2.5	Pass
				10	120	-7.067	-0.0027	-2.5 to 2.5	Pass
				30	120	-8.755	-0.0034	-2.5 to 2.5	Pass
				40	120	-9.470	-0.0036	-2.5 to 2.5	Pass
				50	120	-12.317	-0.0047	-2.5 to 2.5	Pass
	2645	100	0	20	102	-8.740	-0.0033	-2.5 to 2.5	Pass
					120	-4.020	-0.0015	-2.5 to 2.5	Pass
					138	-12.403	-0.0047	-2.5 to 2.5	Pass
				-30	120	-11.272	-0.0043	-2.5 to 2.5	Pass
				-20	120	-8.798	-0.0033	-2.5 to 2.5	Pass
				-10	120	3.591	0.0014	-2.5 to 2.5	Pass
				0	120	2.460	0.0009	-2.5 to 2.5	Pass
				10	120	-0.486	-0.0002	-2.5 to 2.5	Pass
				30	120	-2.961	-0.0011	-2.5 to 2.5	Pass
				40	120	-8.855	-0.0033	-2.5 to 2.5	Pass
				50	120	-16.994	-0.0064	-2.5 to 2.5	Pass
16QAM	2565	100	0	20	102	-4.020	-0.0016	-2.5 to 2.5	Pass
					120	-11.802	-0.0046	-2.5 to 2.5	Pass
					138	-5.021	-0.0020	-2.5 to 2.5	Pass
				-30	120	-7.467	-0.0029	-2.5 to 2.5	Pass
				-20	120	-8.111	-0.0032	-2.5 to 2.5	Pass
				-10	120	-11.630	-0.0045	-2.5 to 2.5	Pass
				0	120	-8.140	-0.0032	-2.5 to 2.5	Pass
				10	120	-17.252	-0.0067	-2.5 to 2.5	Pass
				30	120	-9.212	-0.0036	-2.5 to 2.5	Pass
				40	120	-9.756	-0.0038	-2.5 to 2.5	Pass
				50	120	-6.409	-0.0025	-2.5 to 2.5	Pass
	2605	100	0	20	102	-9.284	-0.0036	-2.5 to 2.5	Pass
					120	-9.656	-0.0037	-2.5 to 2.5	Pass
					138	-9.298	-0.0036	-2.5 to 2.5	Pass
				-30	120	-4.292	-0.0016	-2.5 to 2.5	Pass
				-20	120	-7.496	-0.0029	-2.5 to 2.5	Pass
				-10	120	-9.742	-0.0037	-2.5 to 2.5	Pass
				0	120	-17.395	-0.0067	-2.5 to 2.5	Pass
				10	120	-3.333	-0.0013	-2.5 to 2.5	Pass
				30	120	-9.499	-0.0036	-2.5 to 2.5	Pass
				40	120	-11.787	-0.0045	-2.5 to 2.5	Pass
				50	120	-9.327	-0.0036	-2.5 to 2.5	Pass
	2645	100	0	20	102	-11.630	-0.0044	-2.5 to 2.5	Pass
					120	-4.992	-0.0019	-2.5 to 2.5	Pass
					138	1.531	0.0006	-2.5 to 2.5	Pass
				-30	120	2.475	0.0009	-2.5 to 2.5	Pass
				-20	120	-6.166	-0.0023	-2.5 to 2.5	Pass
				-10	120	-10.200	-0.0039	-2.5 to 2.5	Pass
				0	120	-11.115	-0.0042	-2.5 to 2.5	Pass
				10	120	0.887	0.0003	-2.5 to 2.5	Pass
				30	120	-5.507	-0.0021	-2.5 to 2.5	Pass
				40	120	-11.873	-0.0045	-2.5 to 2.5	Pass
				50	120	-4.478	-0.0017	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	25	0	Refer To Test Graph		Pass
16QAM	2605	25	0	Refer To Test Graph		Pass

3.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	50	0	Refer To Test Graph		Pass
16QAM	2605	50	0	Refer To Test Graph		Pass

3.1.3 B41_15MHz

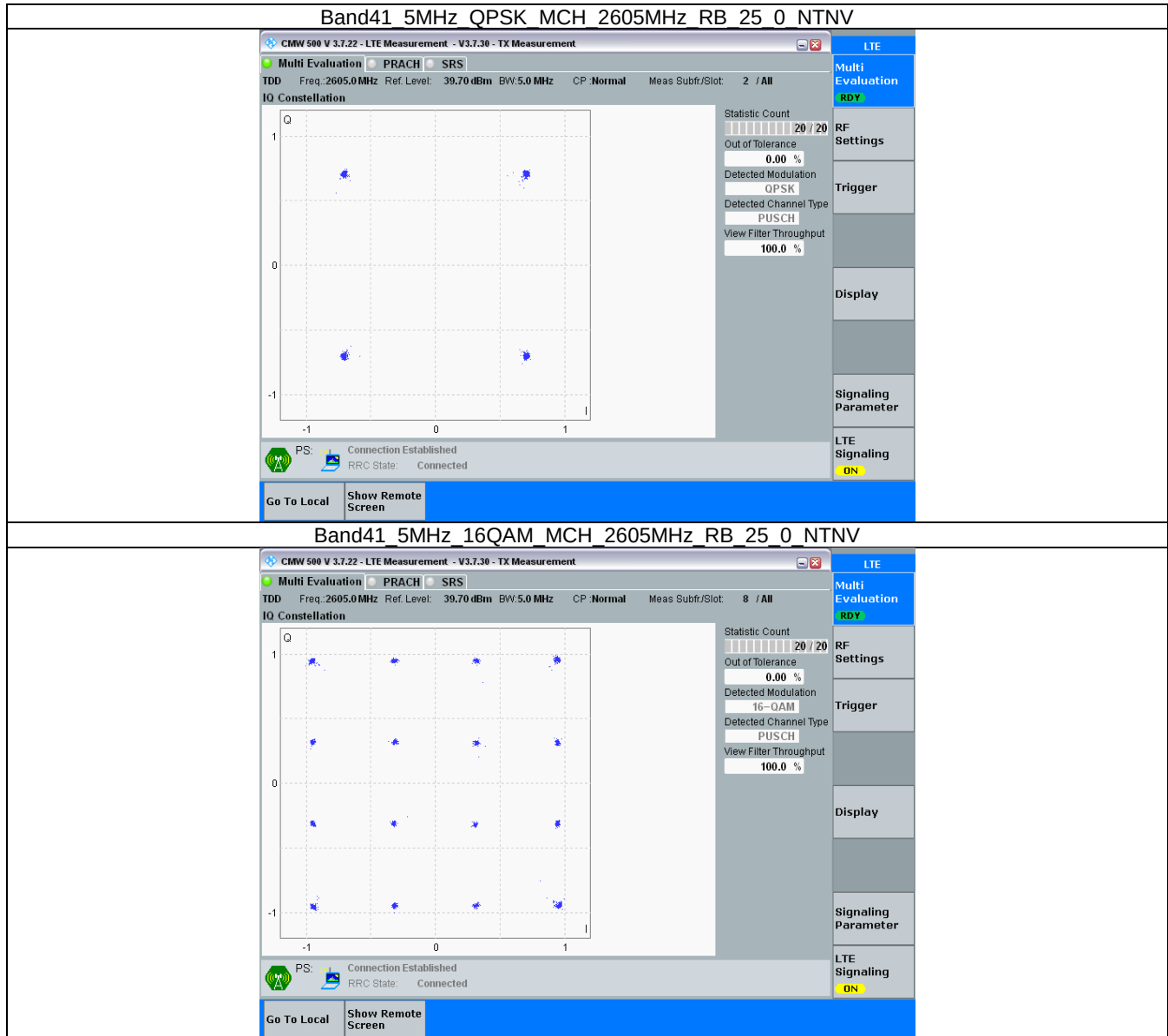
Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	75	0	Refer To Test Graph		Pass
16QAM	2605	75	0	Refer To Test Graph		Pass

3.1.4 B41_20MHz

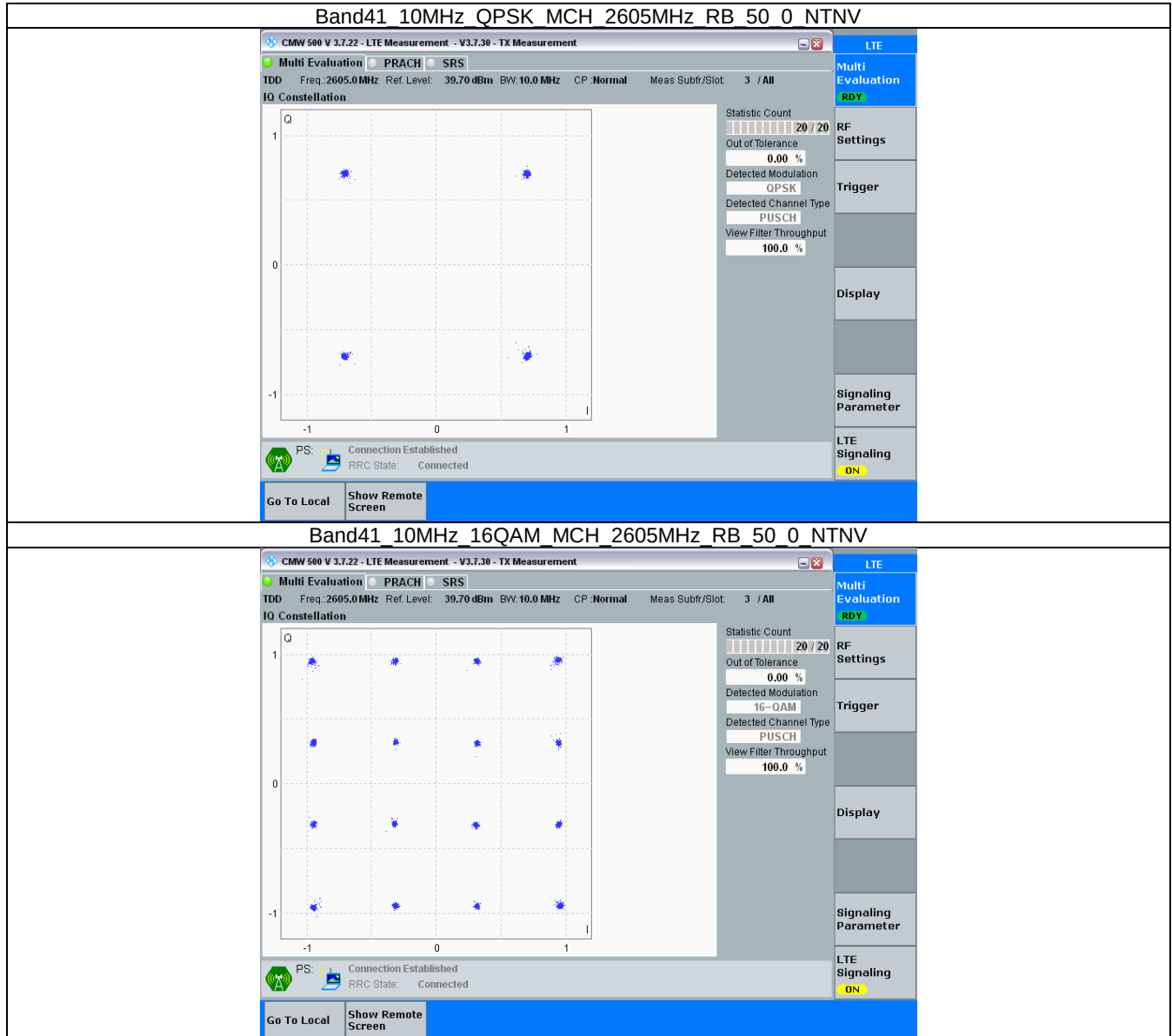
Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	100	0	Refer To Test Graph		Pass
16QAM	2605	100	0	Refer To Test Graph		Pass

3.2 Test Graph

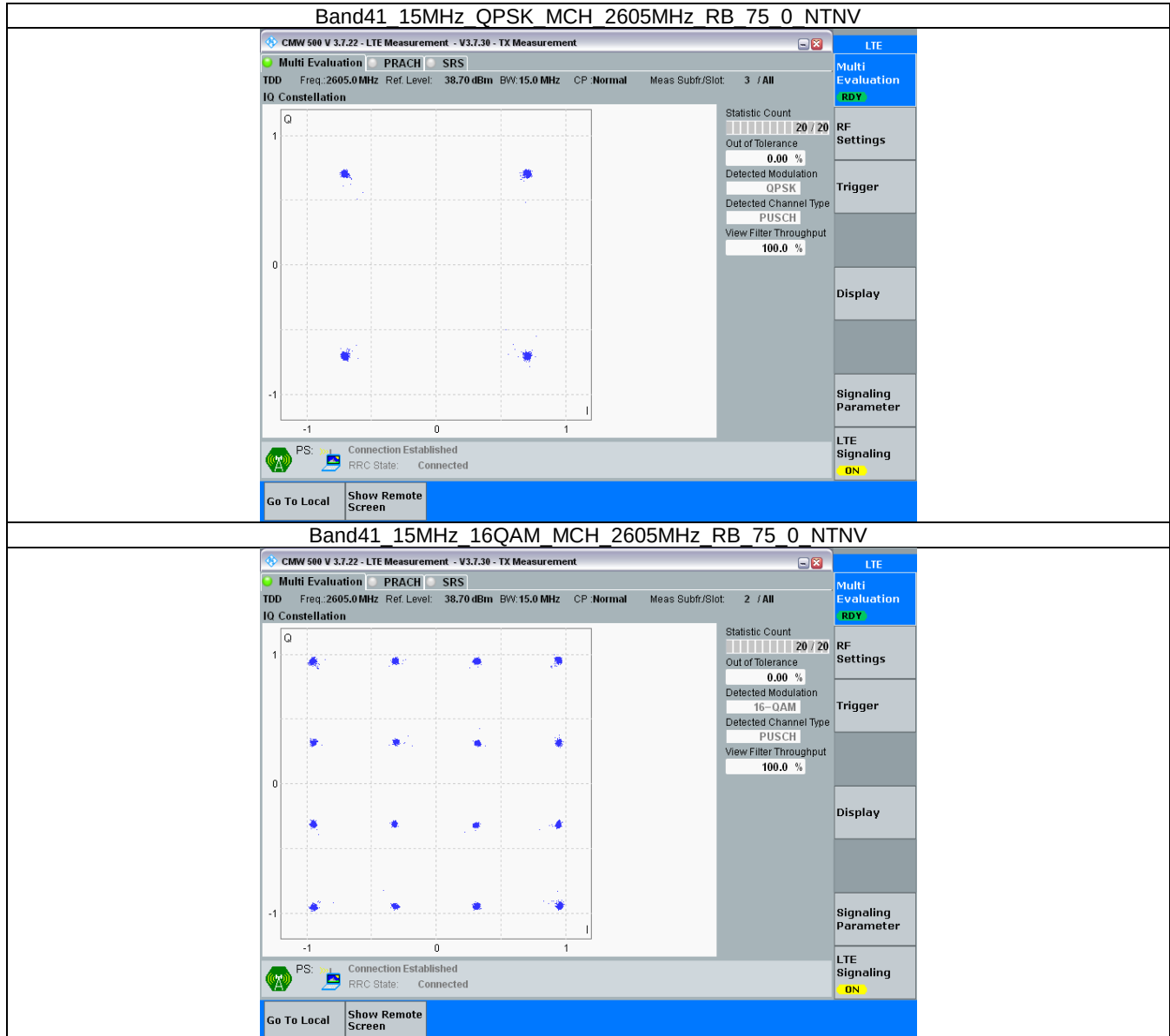
3.2.1 B41_5MHz



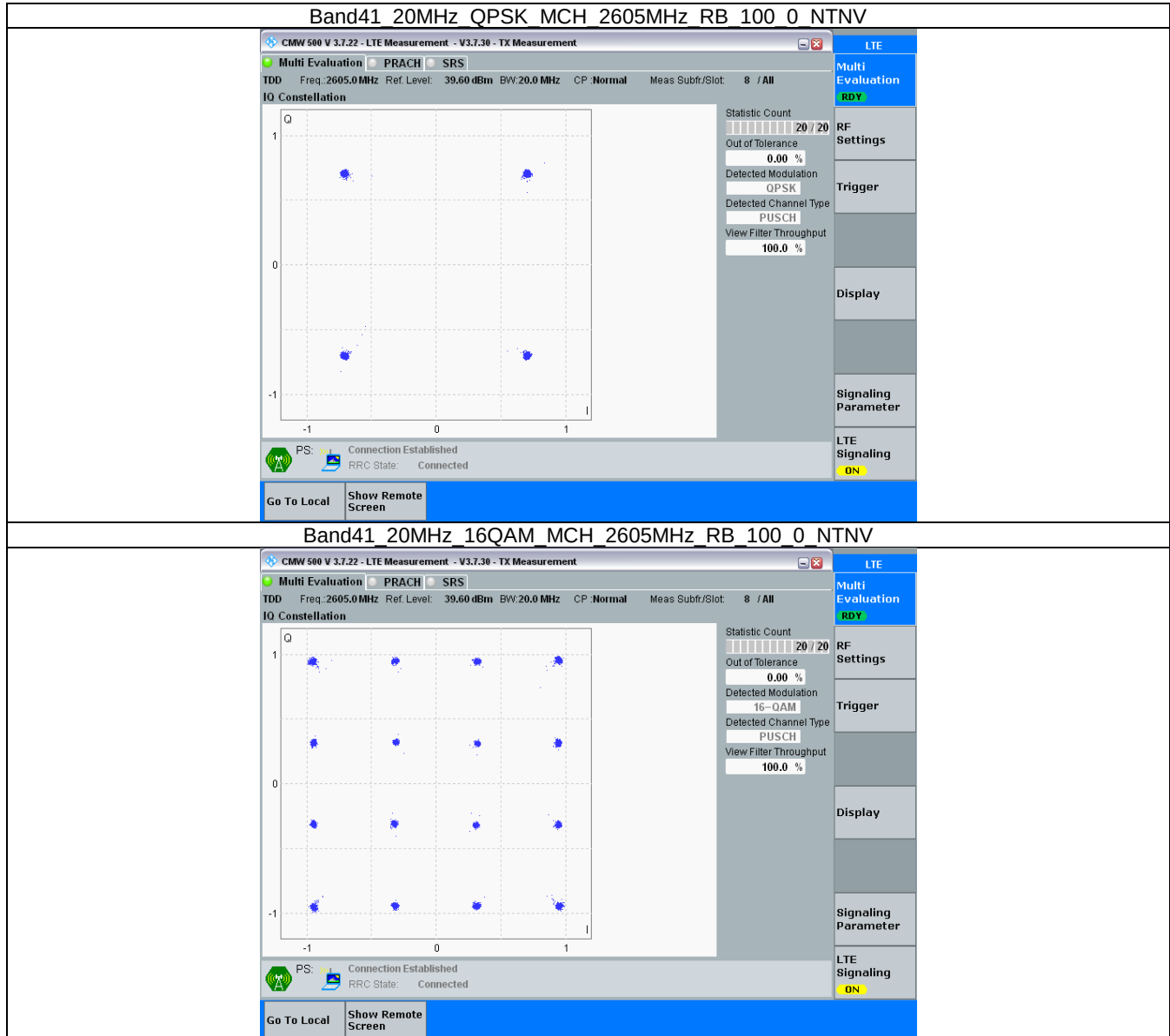
3.2.2 B41_10MHz



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	2557.5	25	0	4.554	/	Pass
		2605	25	0	4.549	/	Pass
		2652.5	25	0	4.548	/	Pass
	16QAM	2557.5	25	0	4.581	/	Pass
		2605	25	0	4.536	/	Pass
		2652.5	25	0	4.545	/	Pass
10	QPSK	2560	50	0	9.076	/	Pass
		2605	50	0	9.059	/	Pass
		2650	50	0	9.092	/	Pass
	16QAM	2560	50	0	9.059	/	Pass
		2605	50	0	9.062	/	Pass
		2650	50	0	9.060	/	Pass
15	QPSK	2562.5	75	0	13.575	/	Pass
		2605	75	0	13.585	/	Pass
		2647.5	75	0	13.610	/	Pass
	16QAM	2562.5	75	0	13.640	/	Pass
		2605	75	0	13.580	/	Pass
		2647.5	75	0	13.626	/	Pass
20	QPSK	2565	100	0	18.070	/	Pass
		2605	100	0	18.039	/	Pass
		2645	100	0	18.104	/	Pass
	16QAM	2565	100	0	18.123	/	Pass
		2605	100	0	18.090	/	Pass
		2645	100	0	18.087	/	Pass

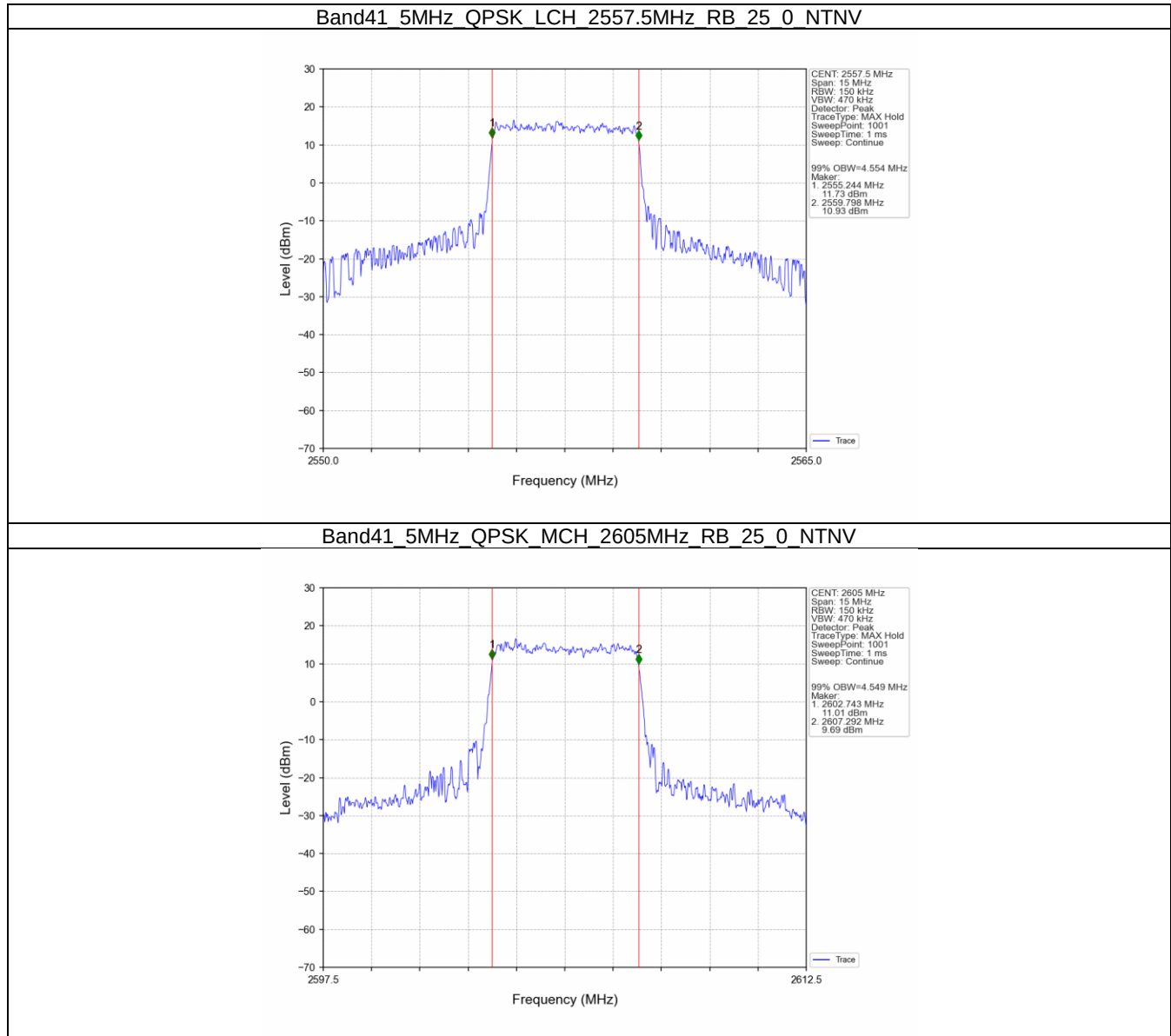
4.1.2 Band41_XDB

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2557.5	25	0	5.624	/	Pass
		2605	25	0	5.057	/	Pass
		2652.5	25	0	5.457	/	Pass
	16QAM	2557.5	25	0	5.215	/	Pass
		2605	25	0	5.031	/	Pass
		2652.5	25	0	5.015	/	Pass
10	QPSK	2560	50	0	10.710	/	Pass
		2605	50	0	11.750	/	Pass
		2650	50	0	10.218	/	Pass
	16QAM	2560	50	0	10.602	/	Pass
		2605	50	0	11.002	/	Pass
		2650	50	0	9.969	/	Pass
15	QPSK	2562.5	75	0	16.973	/	Pass
		2605	75	0	15.249	/	Pass
		2647.5	75	0	16.995	/	Pass
	16QAM	2562.5	75	0	16.383	/	Pass
		2605	75	0	16.016	/	Pass
		2647.5	75	0	18.808	/	Pass
20	QPSK	2565	100	0	20.089	/	Pass

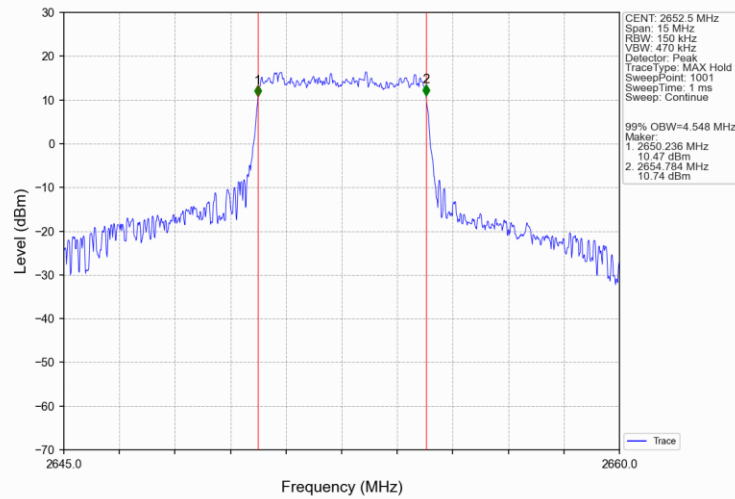
		2605	100	0	20.329	/	Pass
		2645	100	0	19.733	/	Pass
	16QAM	2565	100	0	20.537	/	Pass
		2605	100	0	22.219	/	Pass
		2645	100	0	19.832	/	Pass

4.2 Test Graph

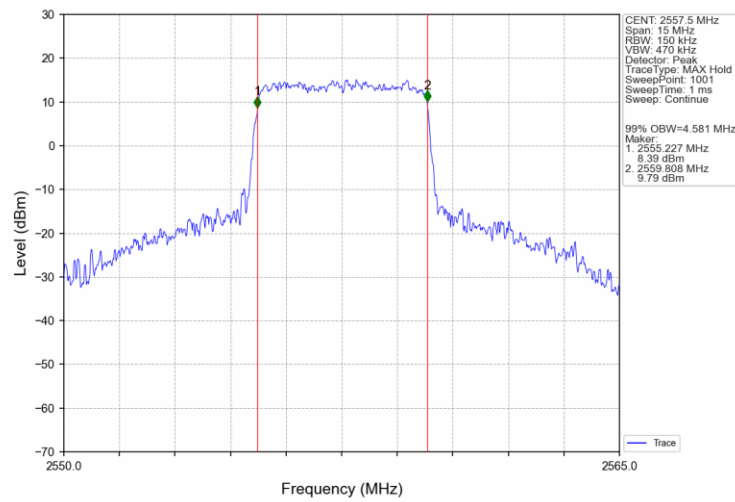
4.2.1 Band41_OBW



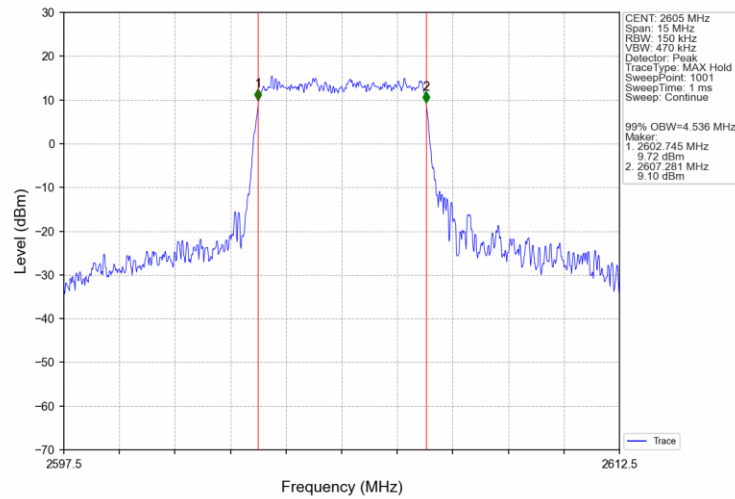
Band41 5MHz QPSK HCH 2652.5MHz RB 25 0 NTNV



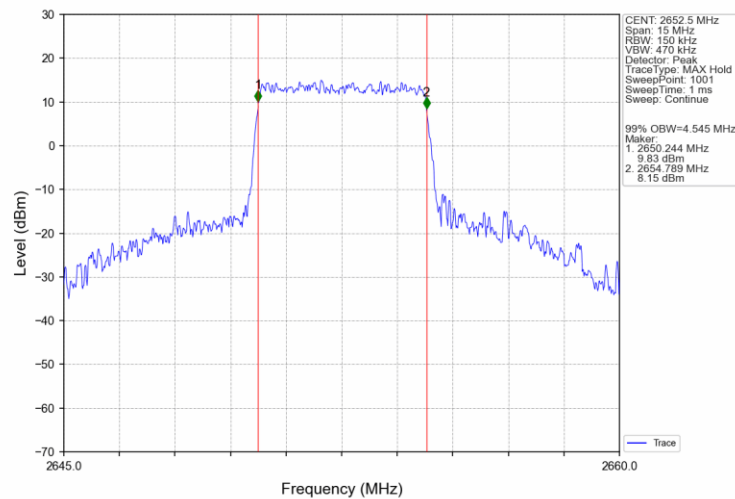
Band41 5MHz 16QAM LCH 2557.5MHz RB 25 0 NTNV



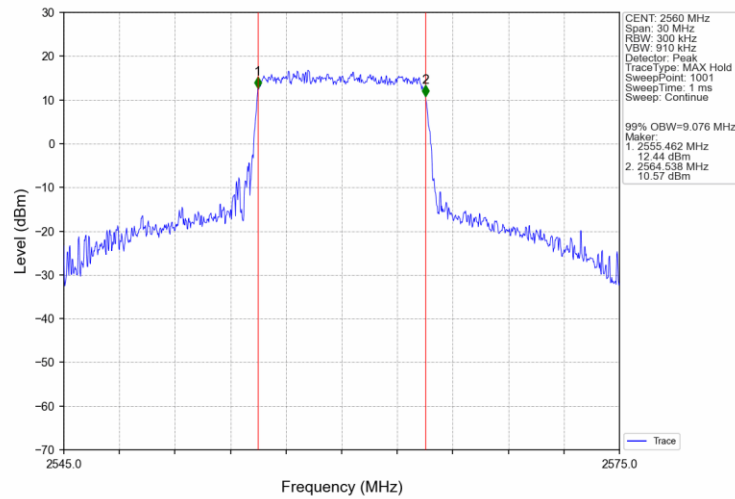
Band41_5MHz_16QAM_MCH_2605MHz_RB_25_0_NTNV



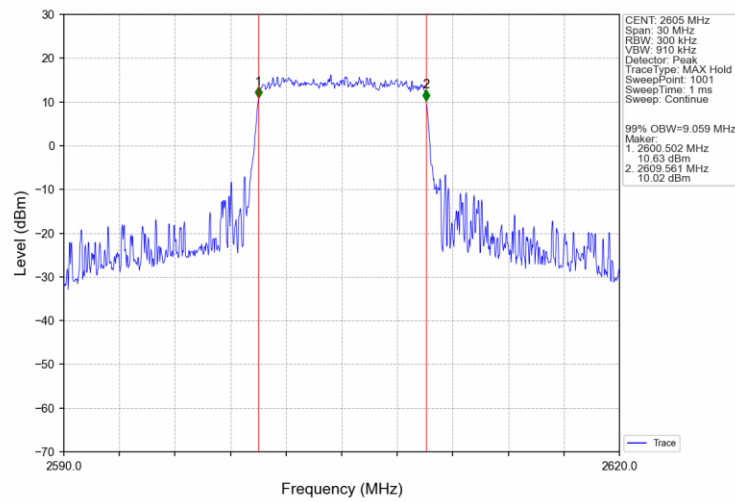
Band41_5MHz_16QAM_HCH_2652.5MHz_RB_25_0_NTNV



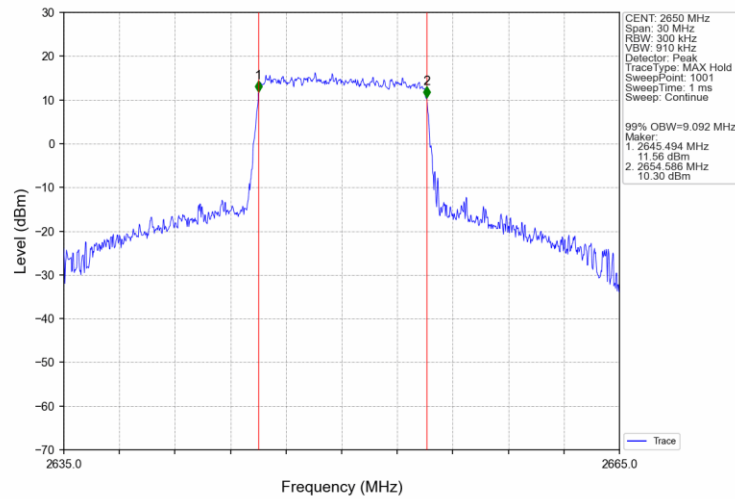
Band41_10MHz_QPSK_LCH_2560MHz_RB_50_0_NTNV



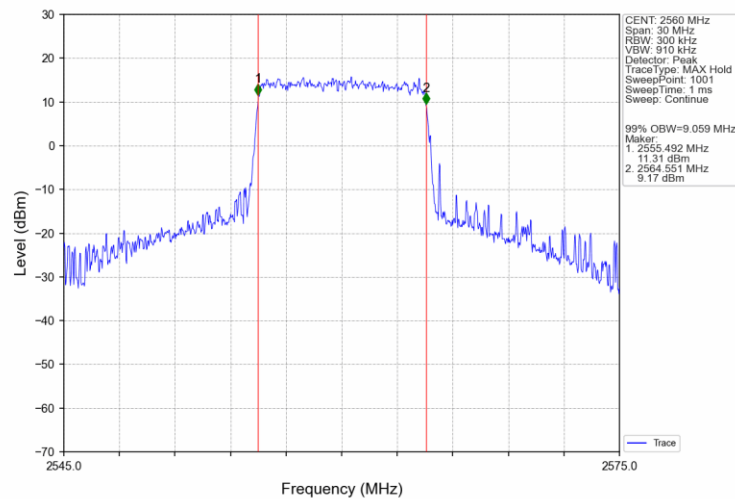
Band41_10MHz_QPSK_MCH_2605MHz_RB_50_0_NTNV



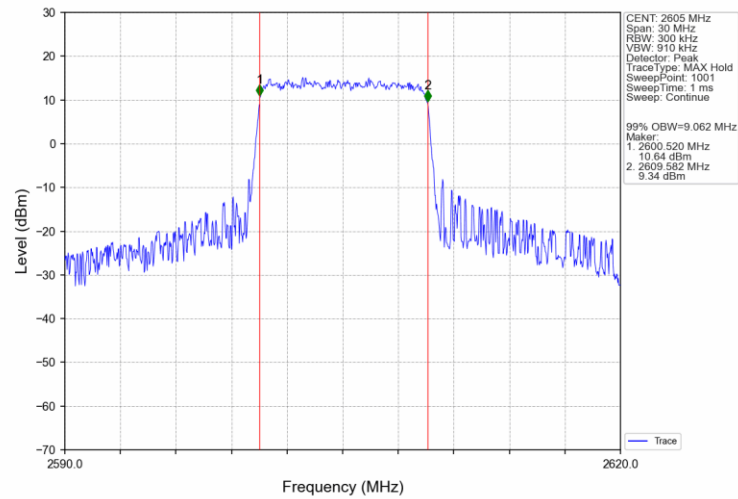
Band41_10MHz_QPSK_HCH_2650MHz_RB_50_0_NTNV



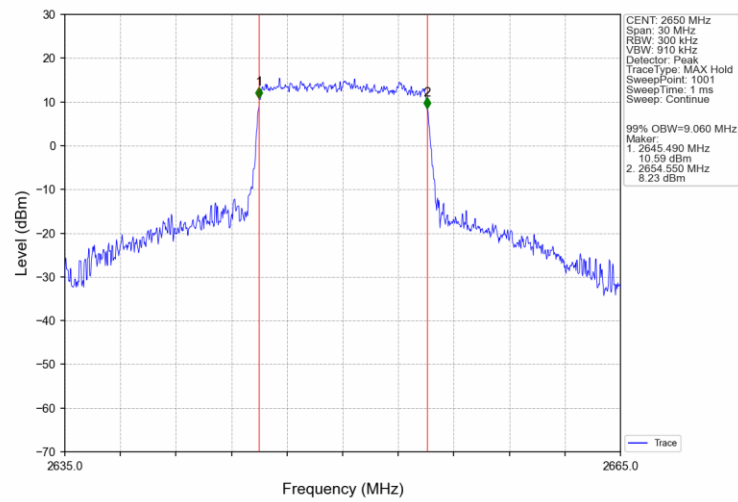
Band41_10MHz_16QAM_LCH_2560MHz_RB_50_0_NTNV



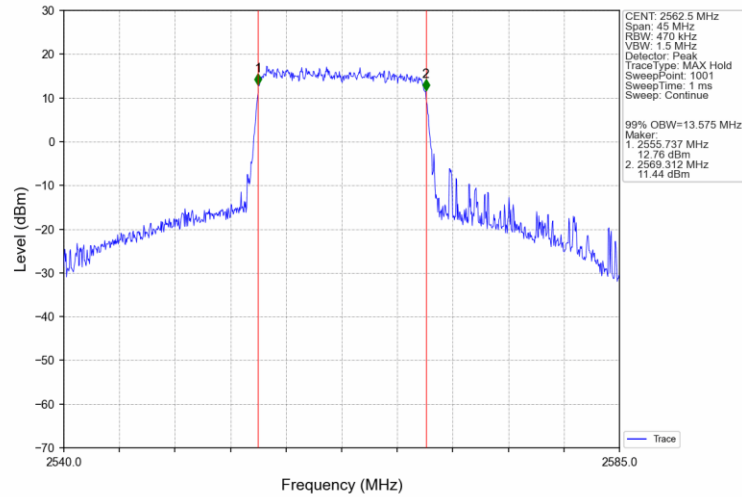
Band41_10MHz_16QAM_MCH_2605MHz_RB_50_0_NTNV



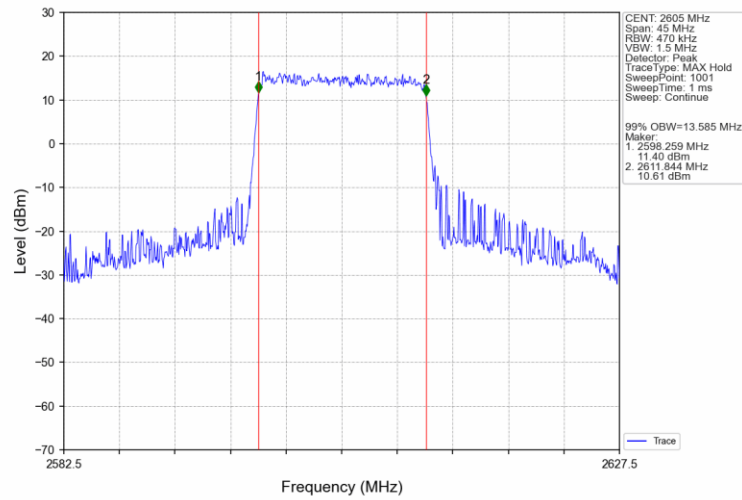
Band41_10MHz_16QAM_HCH_2650MHz_RB_50_0_NTNV



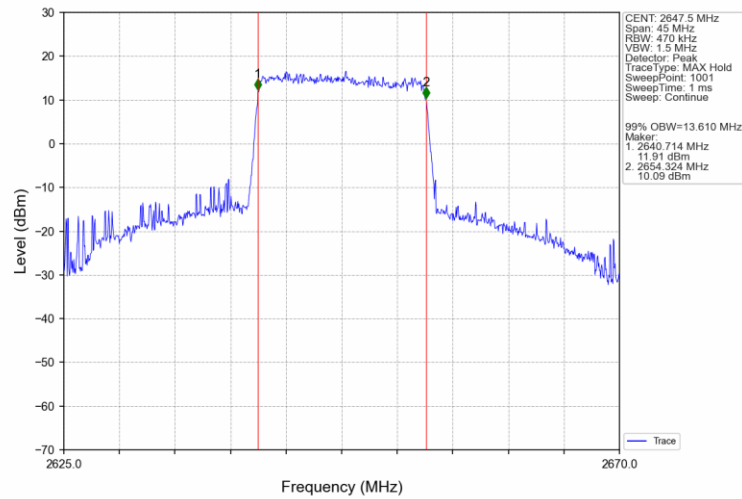
Band41 15MHz QPSK LCH 2562.5MHz RB 75 0 NTN



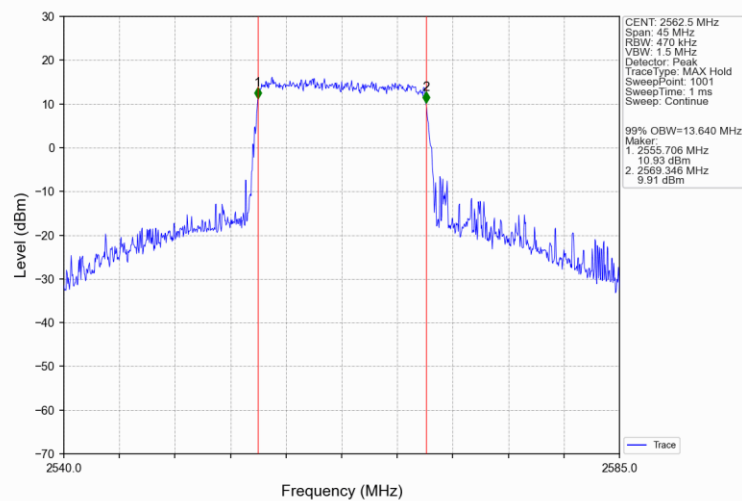
Band41 15MHz QPSK MCH 2605MHz RB 75 0 NTN



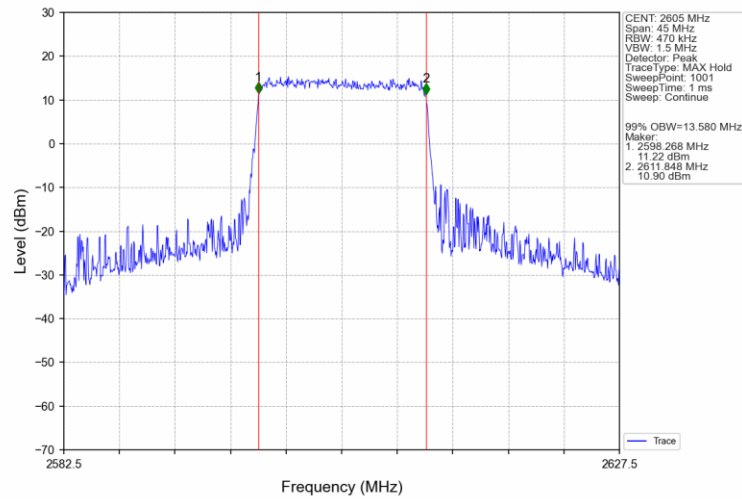
Band41_15MHz_QPSK_HCH_2647.5MHz_RB_75_0_NTNV



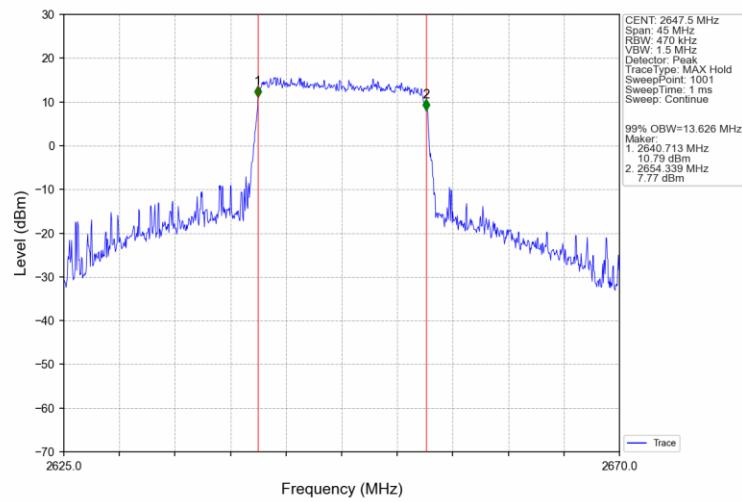
Band41_15MHz_16QAM_LCH_2562.5MHz_RB_75_0_NTNV



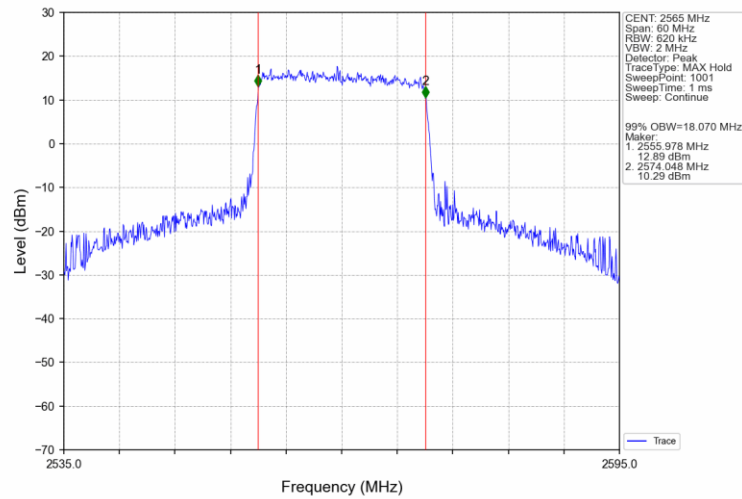
Band41_15MHz_16QAM_MCH_2605MHz_RB_75_0_NTNV



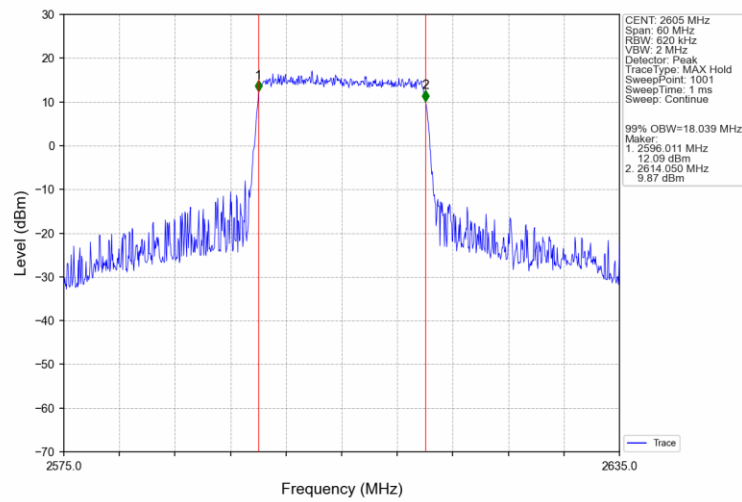
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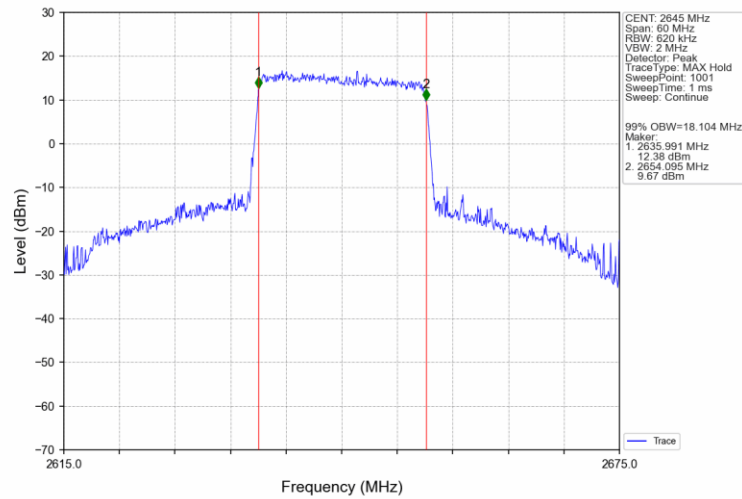
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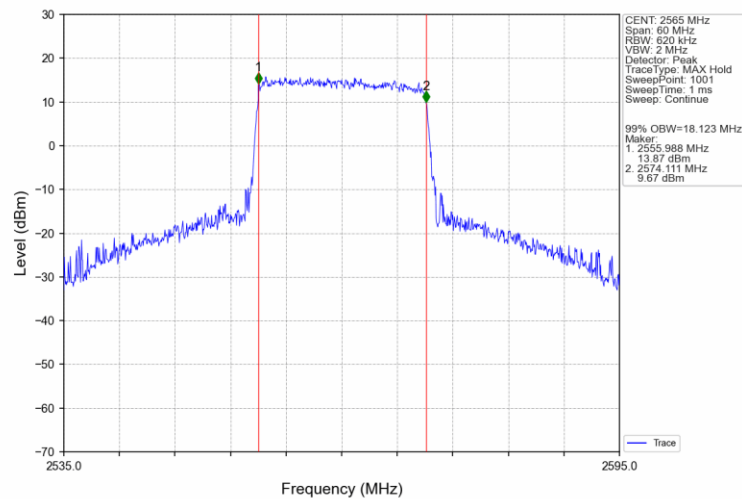
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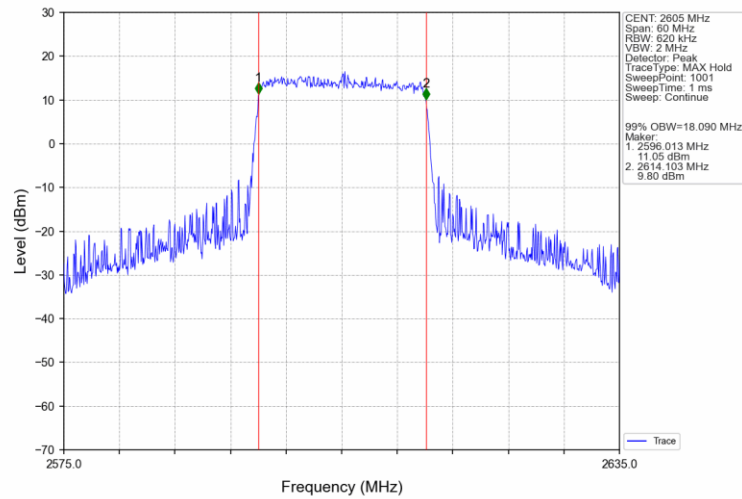
Band41 20MHz QPSK HCH 2645MHz RB 100 0 NTN



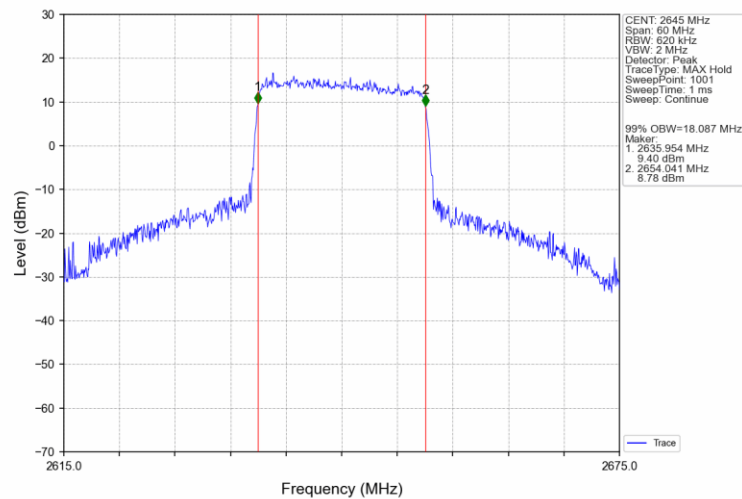
Band41 20MHz 16QAM LCH 2565MHz RB 100 0 NTN



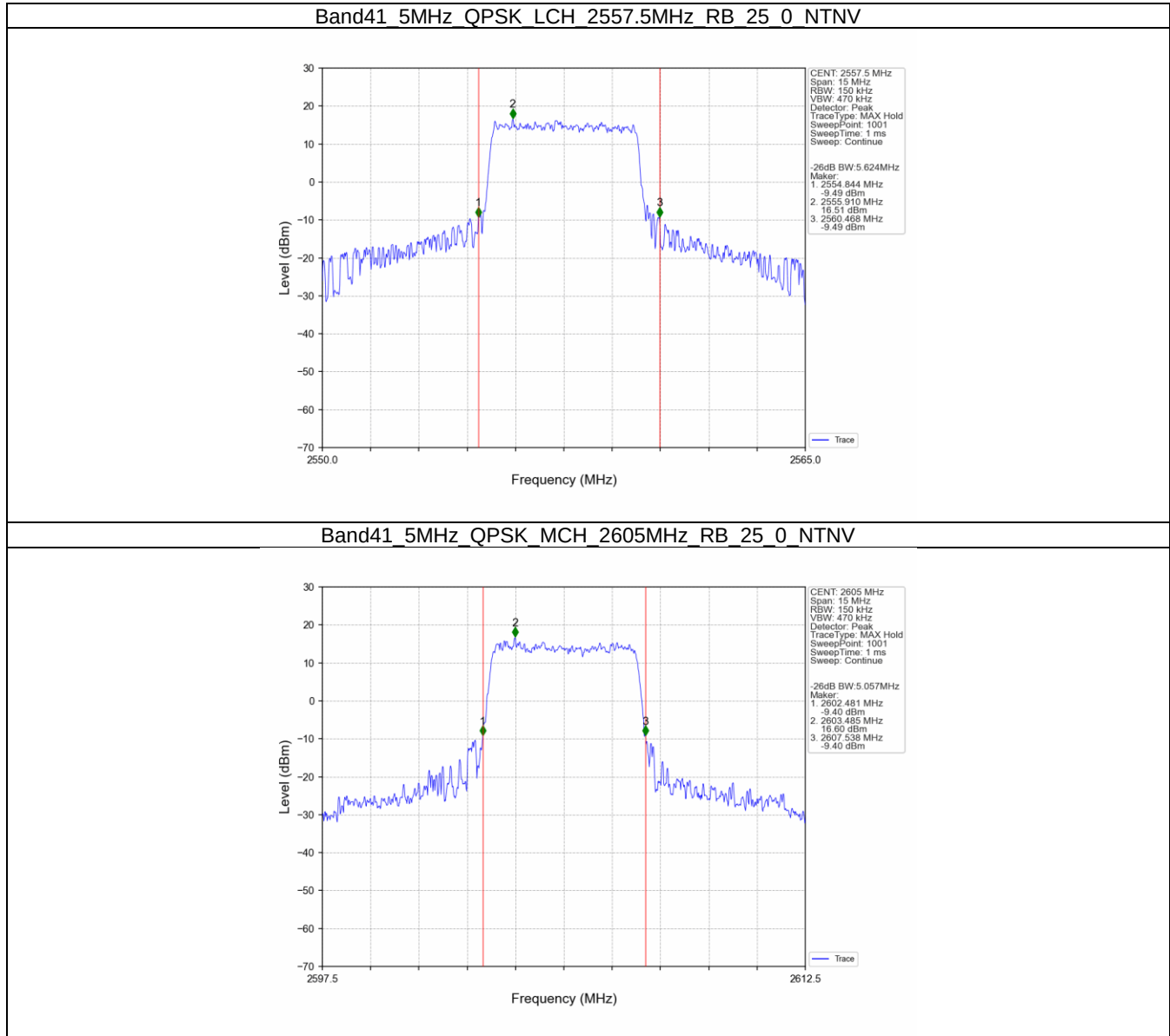
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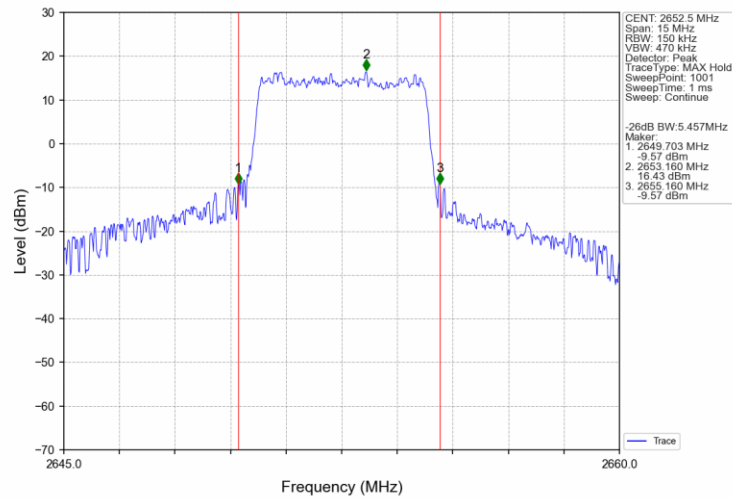
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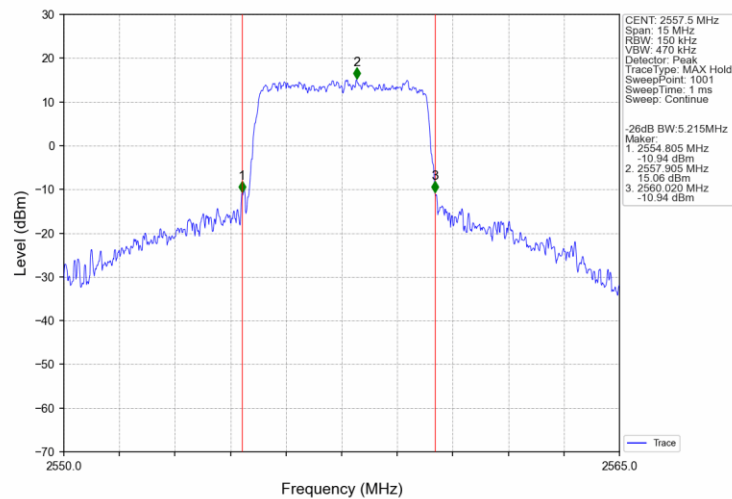
4.2.2 Band41_XDB



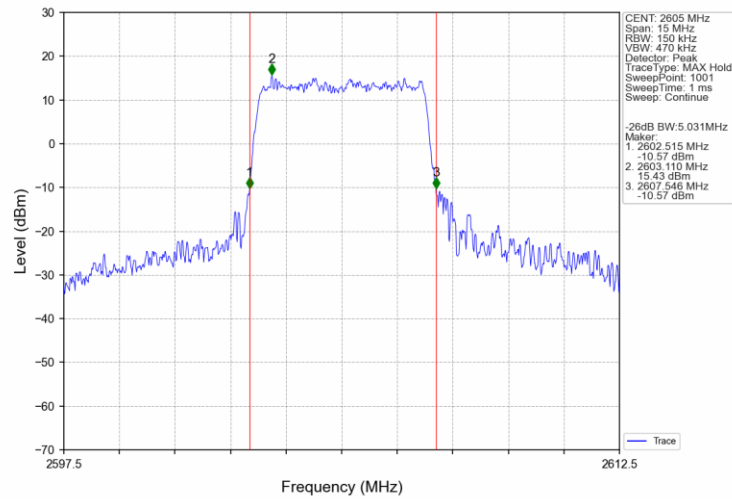
Band41_5MHz_QPSK_HCH_2652.5MHz_RB_25_0_NTNV



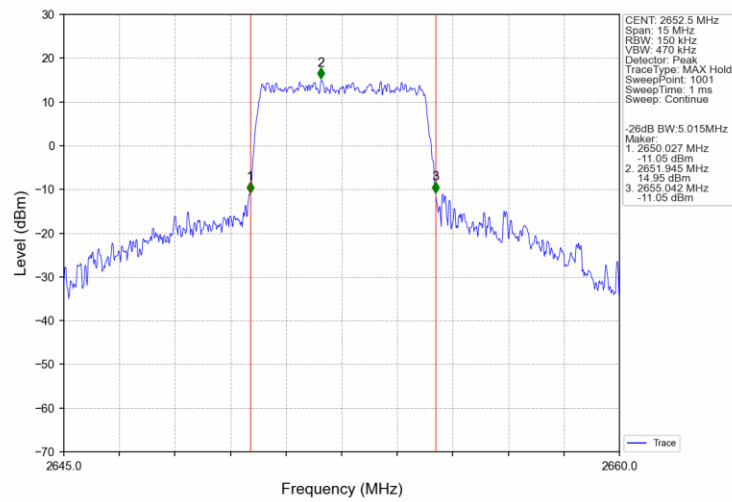
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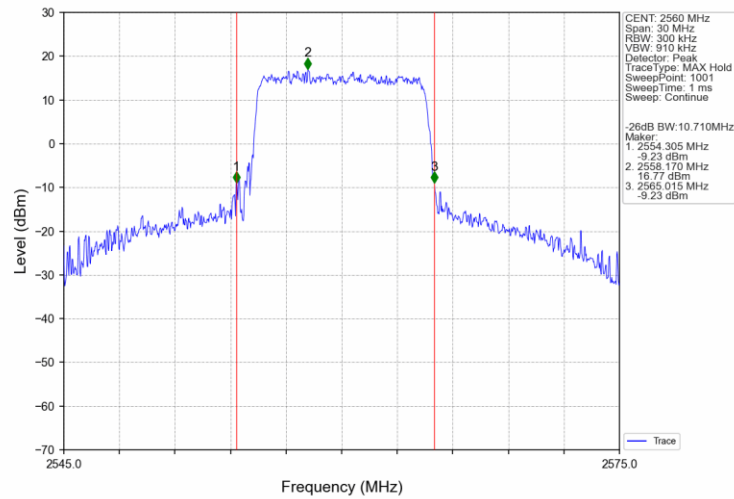
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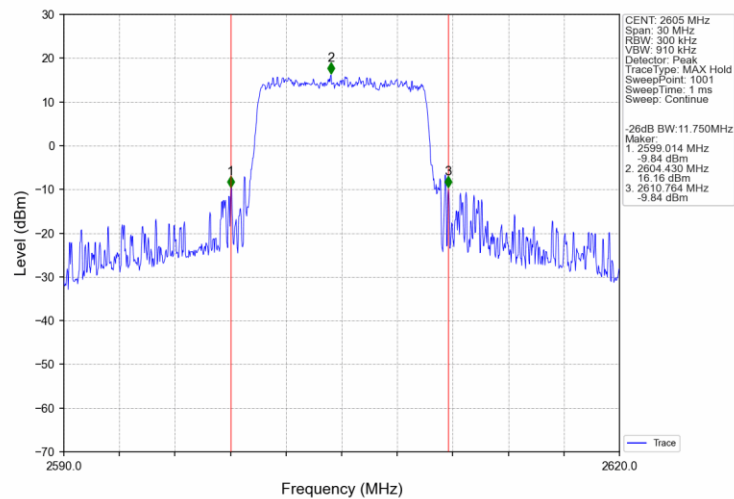
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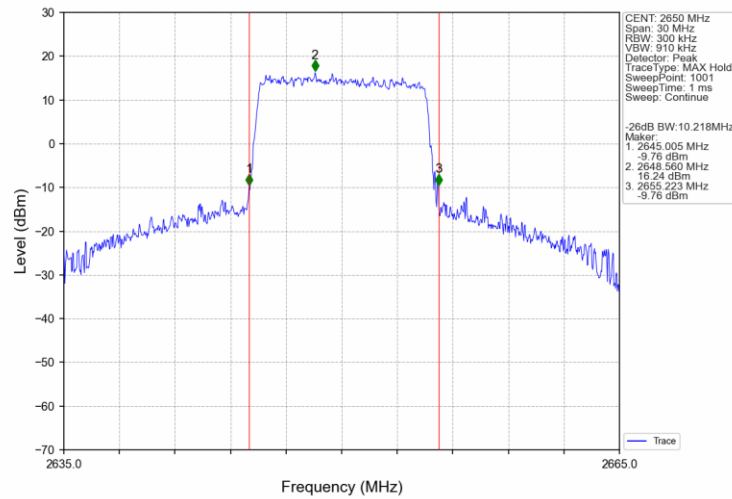
Band41_10MHz_QPSK_LCH_2560MHz_RB_50_0_NTNV



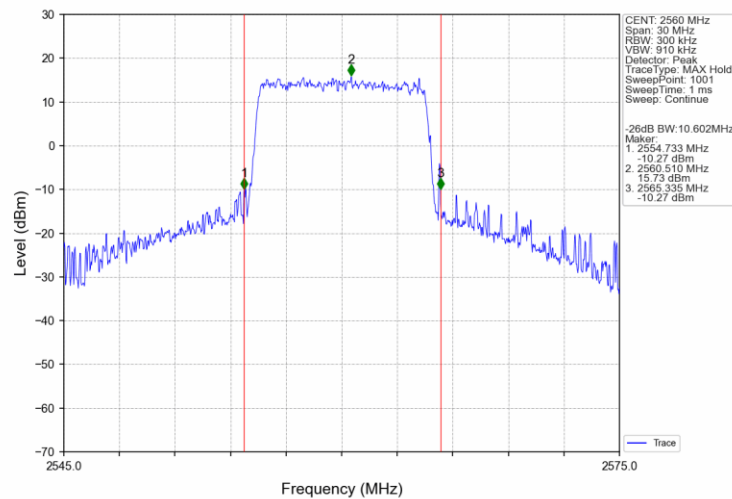
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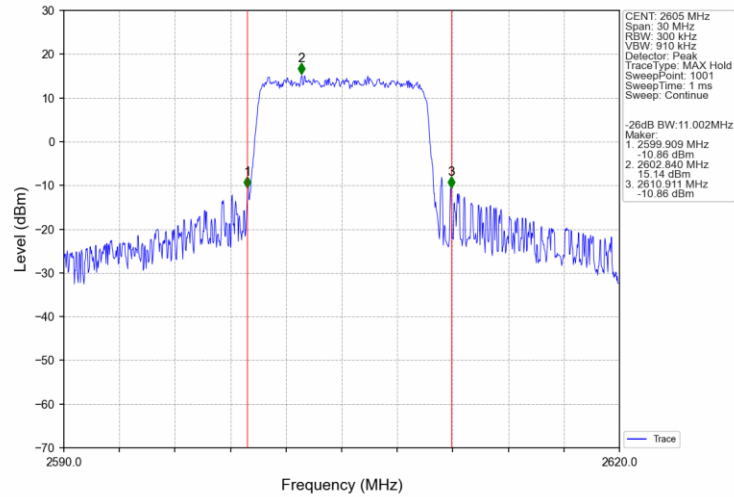
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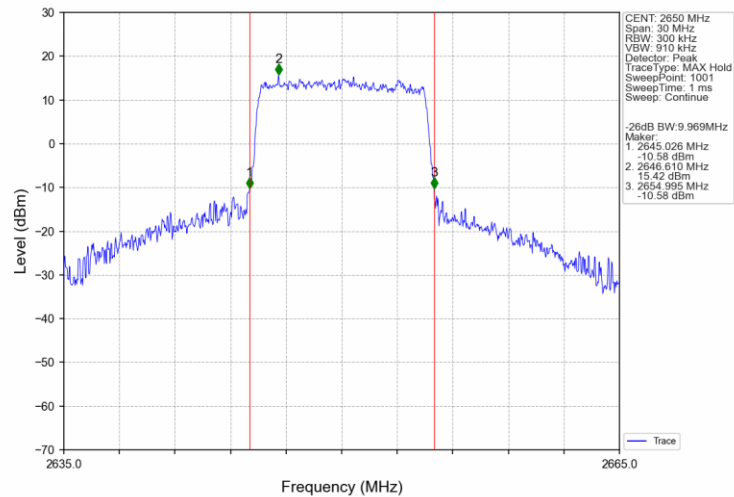
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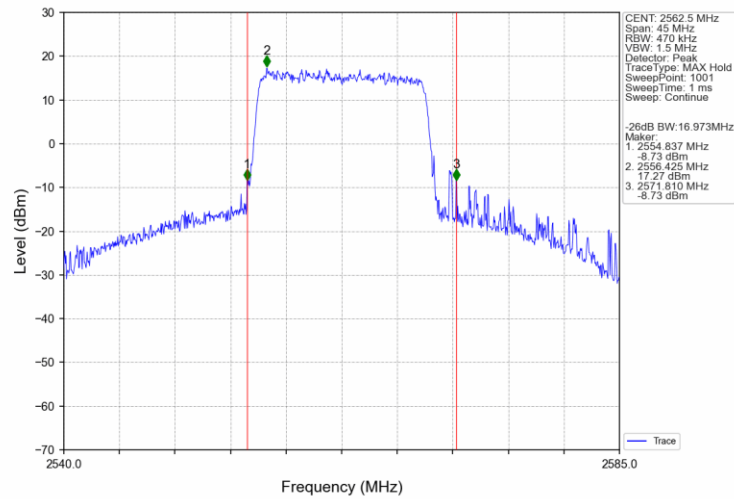
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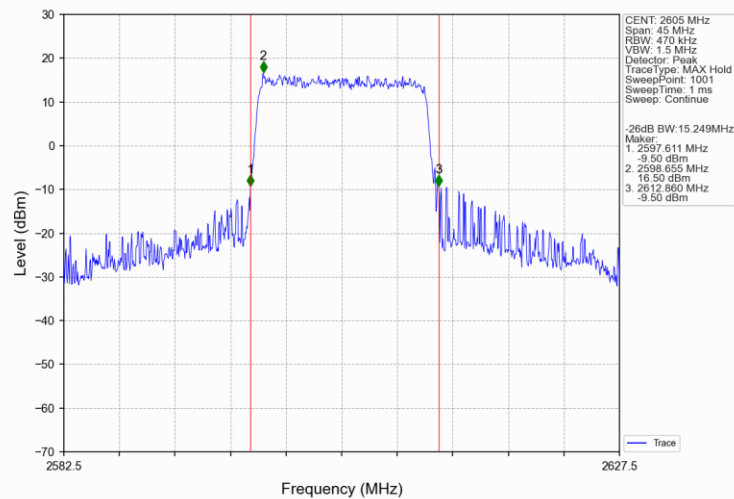
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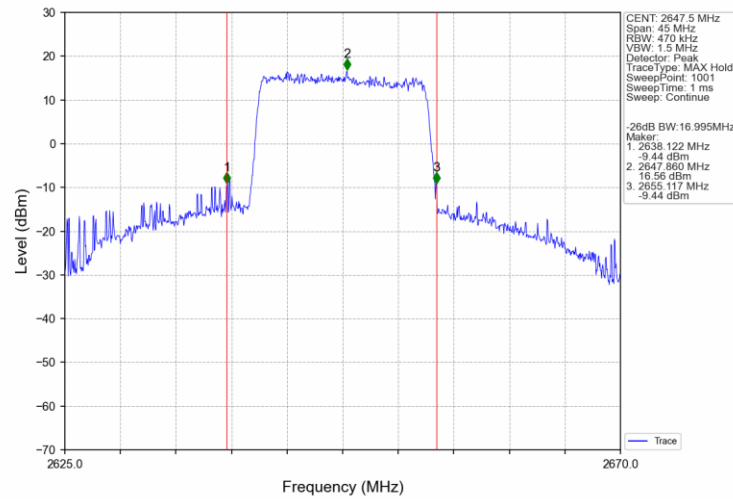
Band41 15MHz QPSK LCH 2562.5MHz RB 75 0 NTN



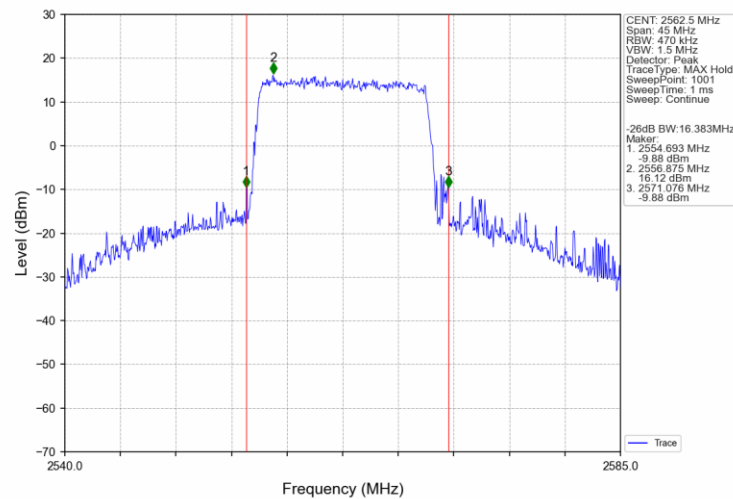
Band41 15MHz QPSK MCH 2605MHz RB 75 0 NTN



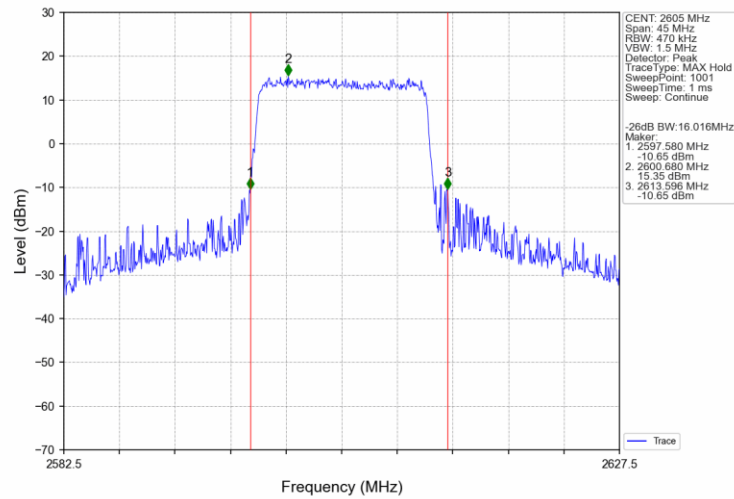
Band41_15MHz_QPSK_HCH_2647.5MHz_RB_75_0_NTNV



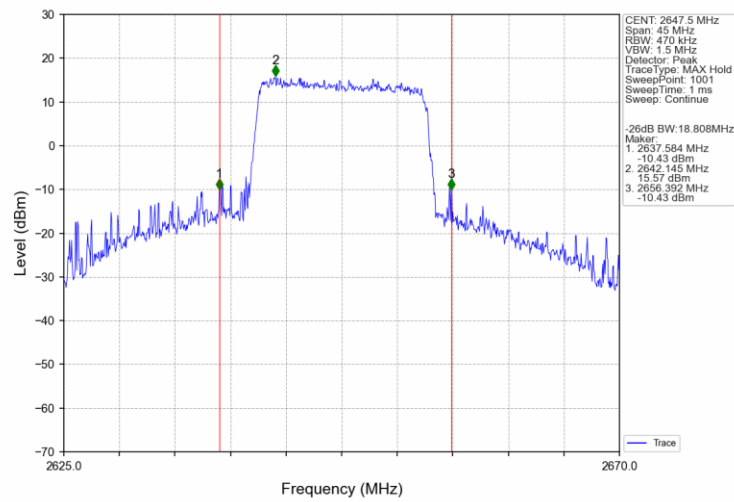
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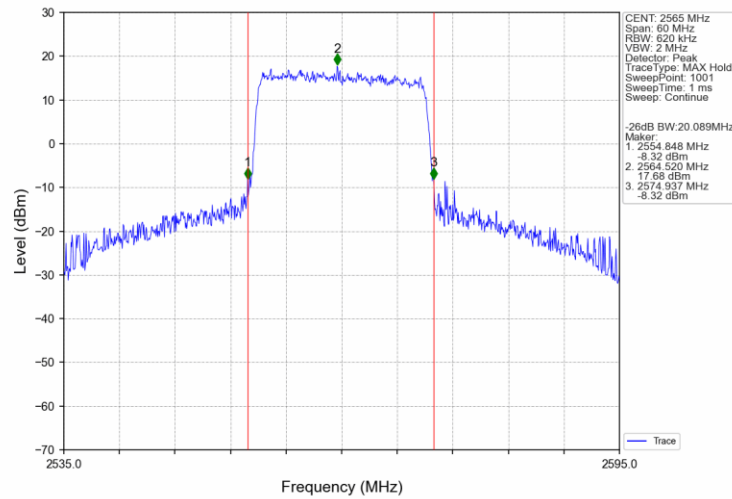
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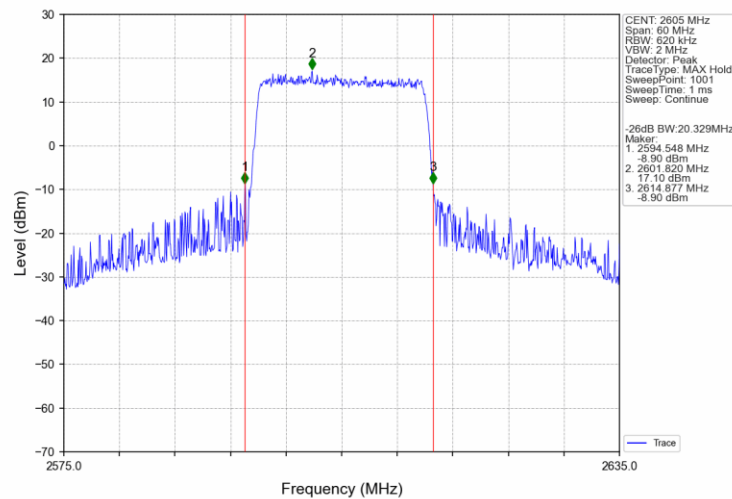
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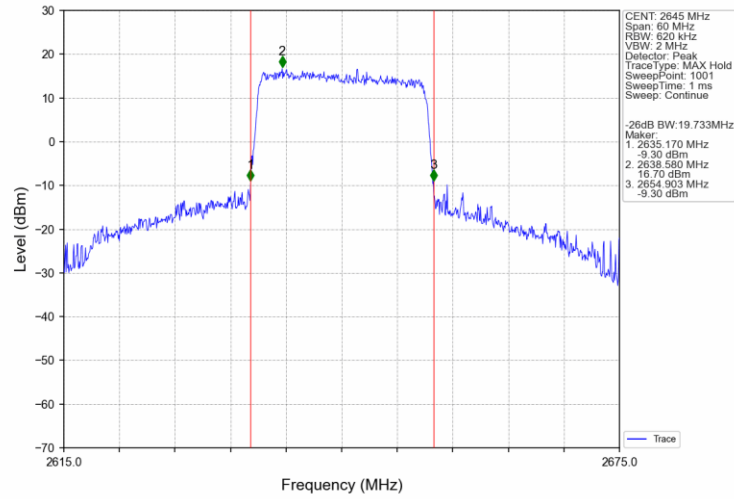
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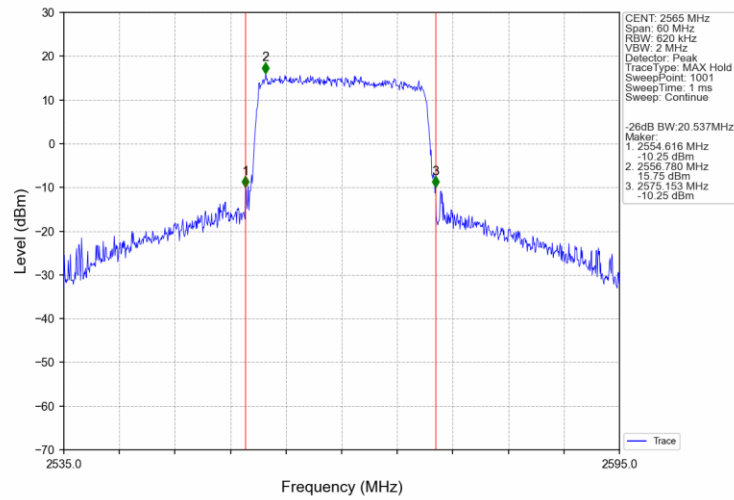
Band41_20MHz_QPSK_MCH_2605MHz_RB_100_0_NTNV



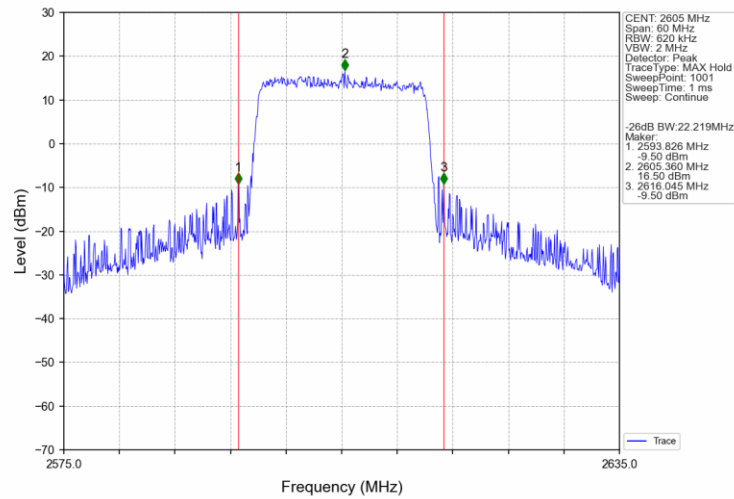
Band41 20MHz QPSK HCH 2645MHz RB 100 0 NTN



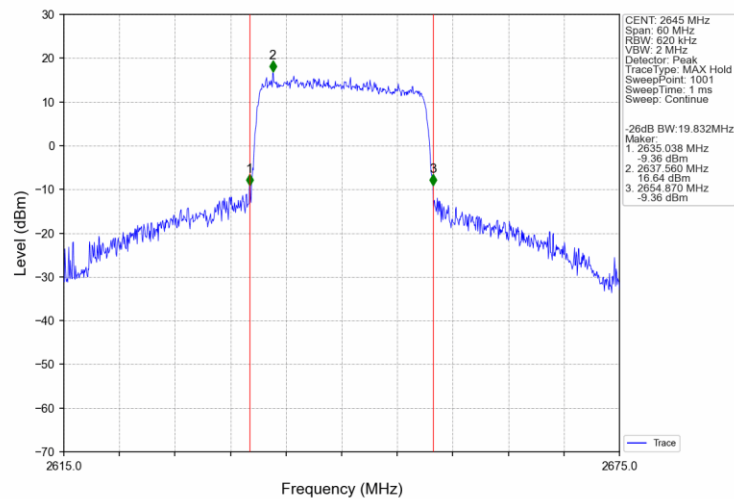
Band41 20MHz 16QAM LCH 2565MHz RB 100 0 NTN



Band41_20MHz_16QAM_MCH_2605MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_HCH_2645MHz_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	2557.5	25	0	6.80	<=13	Pass
	2605	25	0	7.40	<=13	Pass
	2652.5	25	0	6.81	<=13	Pass
16QAM	2557.5	25	0	7.44	<=13	Pass
	2605	25	0	8.11	<=13	Pass
	2652.5	25	0	7.69	<=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	2560	50	0	6.94	<=13	Pass
	2605	50	0	7.56	<=13	Pass
	2650	50	0	6.78	<=13	Pass
16QAM	2560	50	0	7.63	<=13	Pass
	2605	50	0	8.05	<=13	Pass
	2650	50	0	7.59	<=13	Pass

5.1.3 B41_15MHz

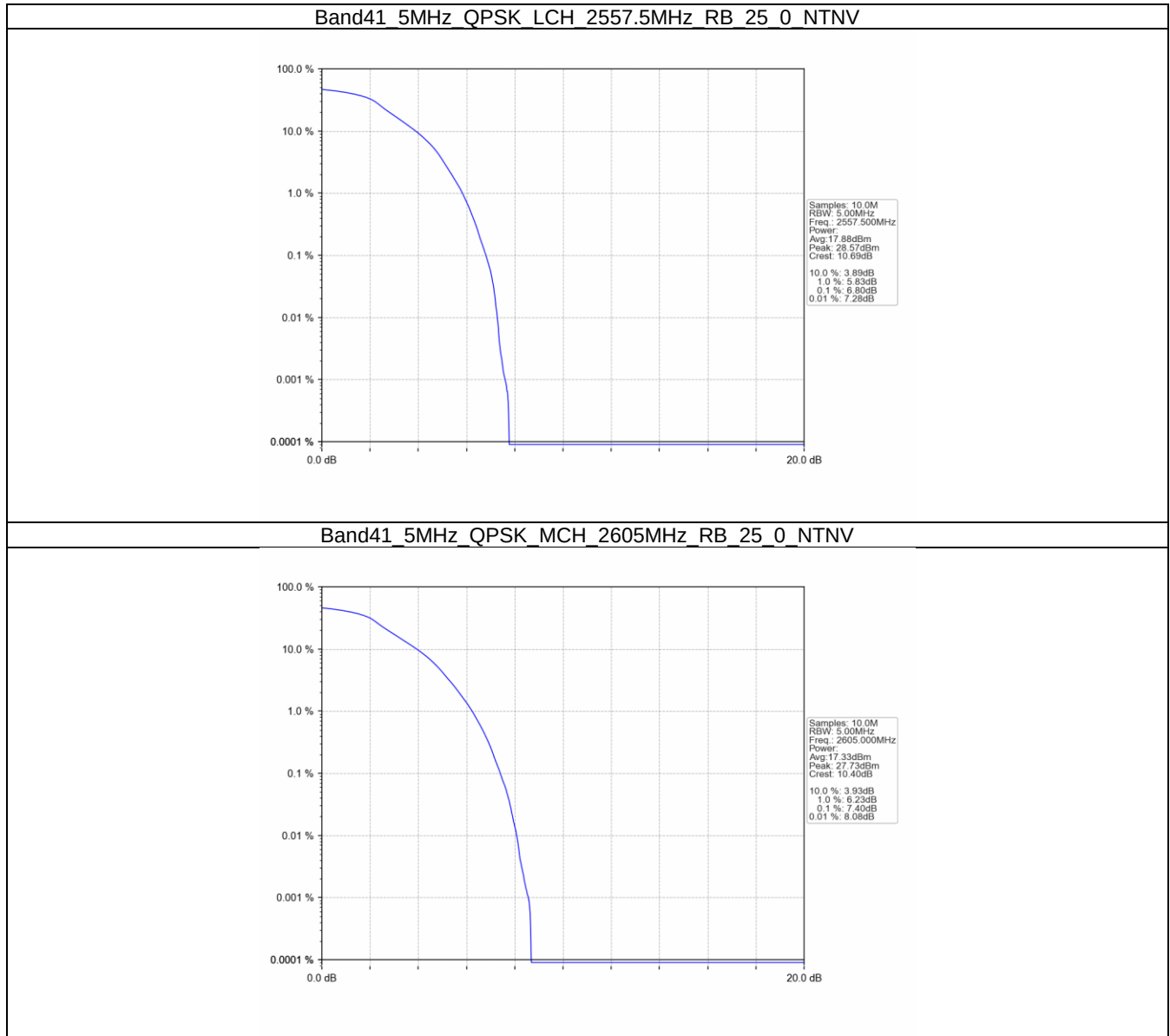
Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2562.5	75	0	7.32	<=13	Pass
	2605	75	0	7.20	<=13	Pass
	2647.5	75	0	6.93	<=13	Pass
16QAM	2562.5	75	0	7.99	<=13	Pass
	2605	75	0	8.21	<=13	Pass
	2647.5	75	0	7.85	<=13	Pass

5.1.4 B41_20MHz

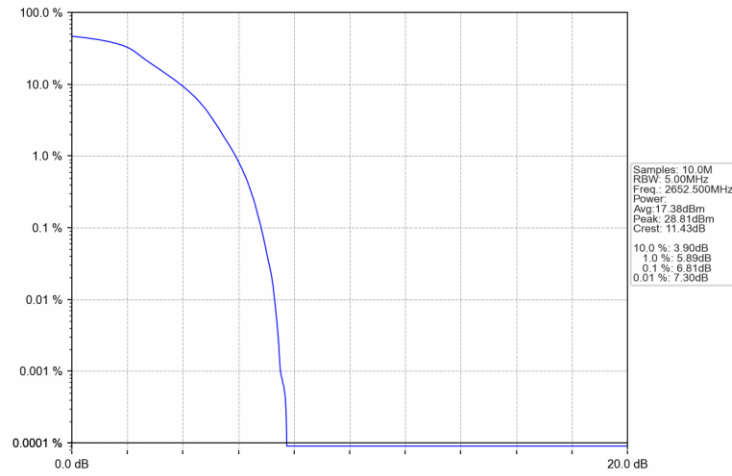
Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2565	100	0	7.67	<=13	Pass
	2605	100	0	7.73	<=13	Pass
	2645	100	0	7.76	<=13	Pass
16QAM	2565	100	0	8.52	<=13	Pass
	2605	100	0	8.64	<=13	Pass
	2645	100	0	8.52	<=13	Pass

5.2 Test Graph

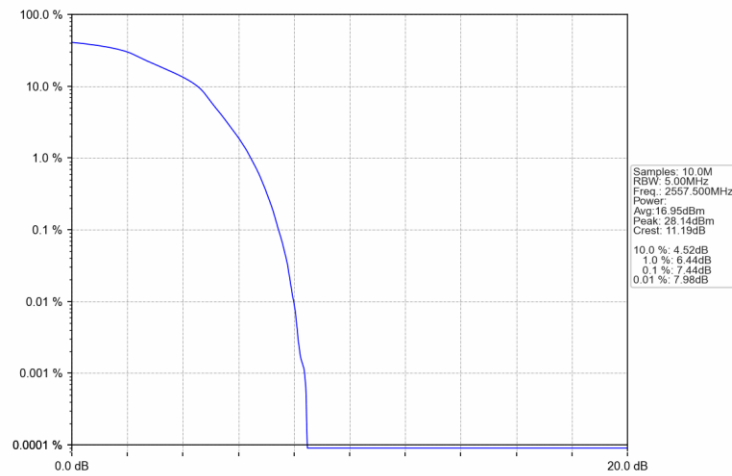
5.2.1 B41_5MHz



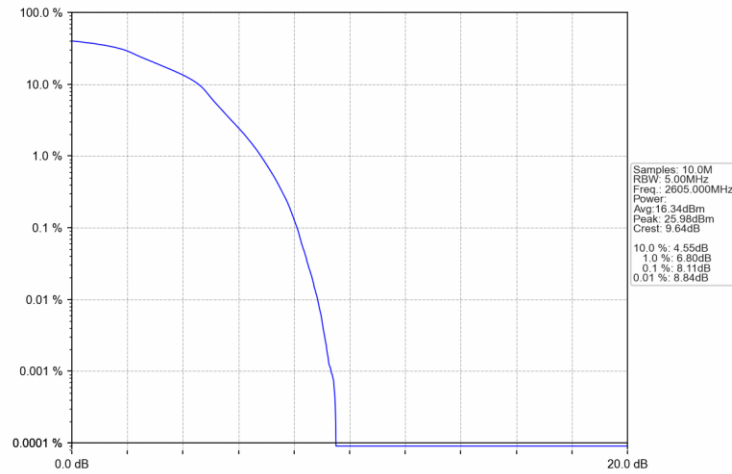
Band41_5MHz_QPSK_HCH_2652.5MHz_RB_25_0_NTNV



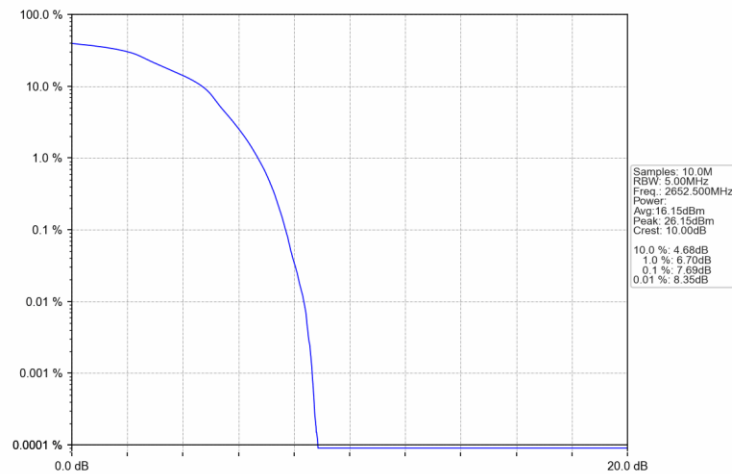
Band41_5MHz_16QAM_LCH_2557.5MHz_RB_25_0_NTNV



Band41 5MHz 16QAM MCH 2605MHz RB 25 0 NTNV

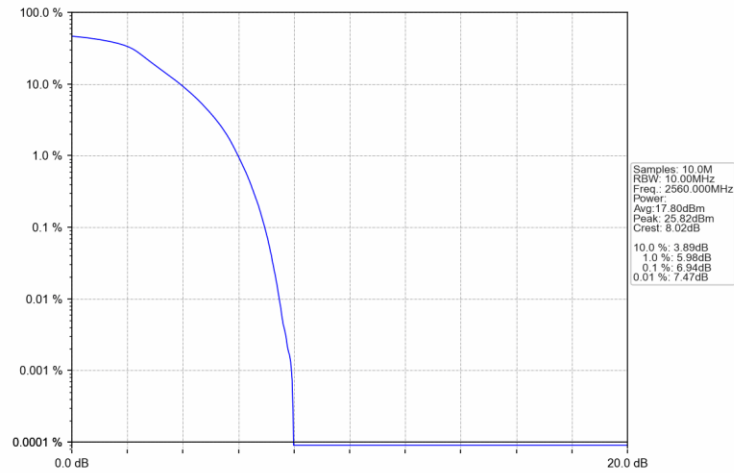


Band41 5MHz 16QAM HCH 2652.5MHz RB 25 0 NTNV

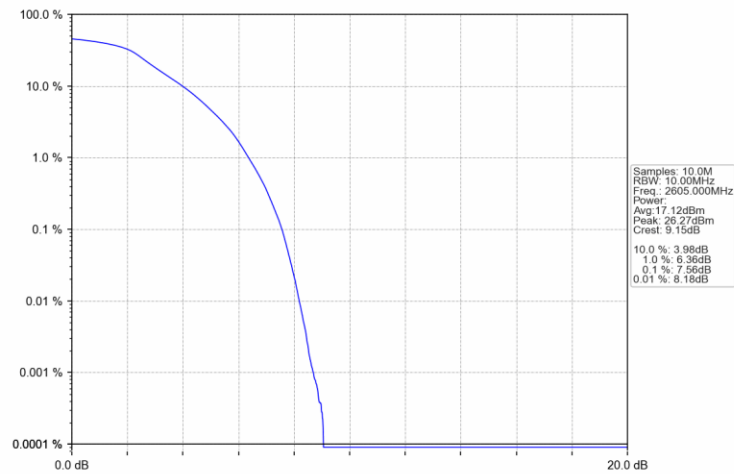


5.2.2 B41_10MHz

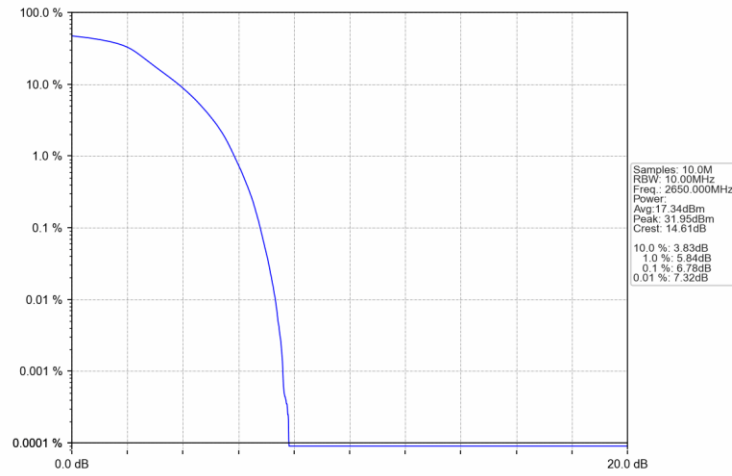
Band41_10MHz_QPSK_LCH_2560MHz_RB_50_0_NTNV



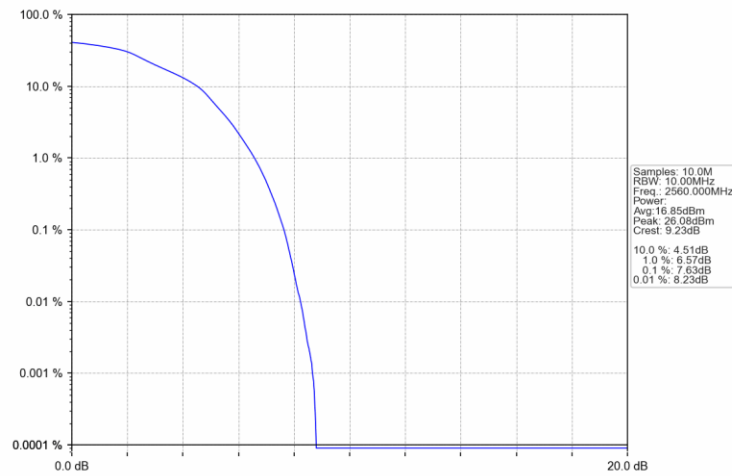
Band41_10MHz_QPSK_MCH_2605MHz_RB_50_0_NTNV



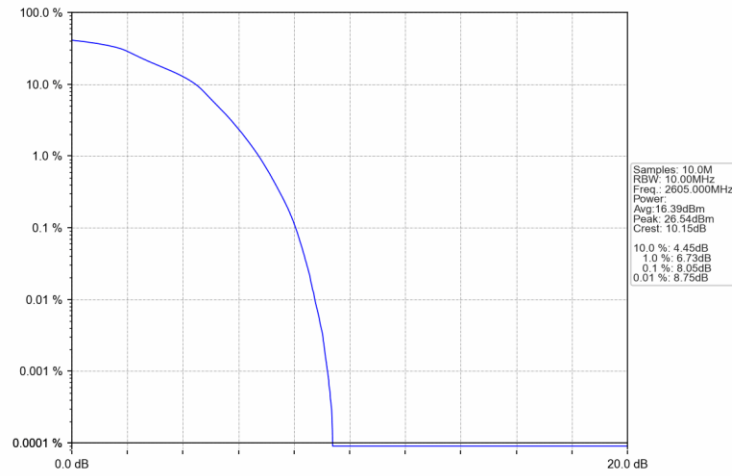
Band41_10MHz_QPSK_HCH_2650MHz_RB_50_0_NTNV



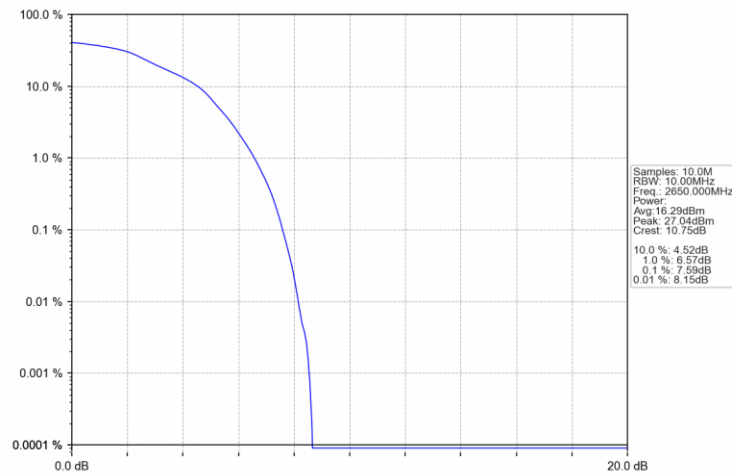
Band41_10MHz_16QAM_LCH_2560MHz_RB_50_0_NTNV



Band41 10MHz 16QAM MCH 2605MHz RB 50 0 NTN

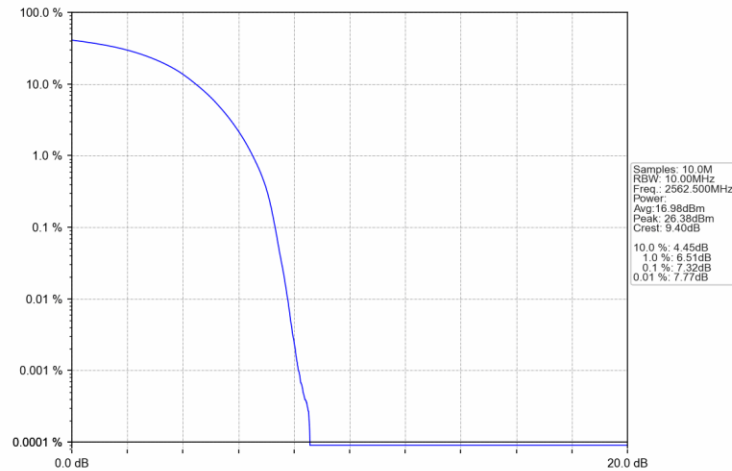


Band41 10MHz 16QAM HCH 2650MHz RB 50 0 NTN

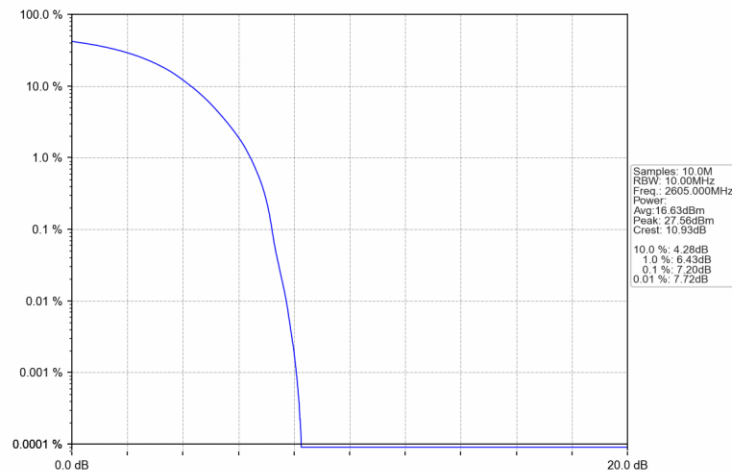


5.2.3 B41_15MHz

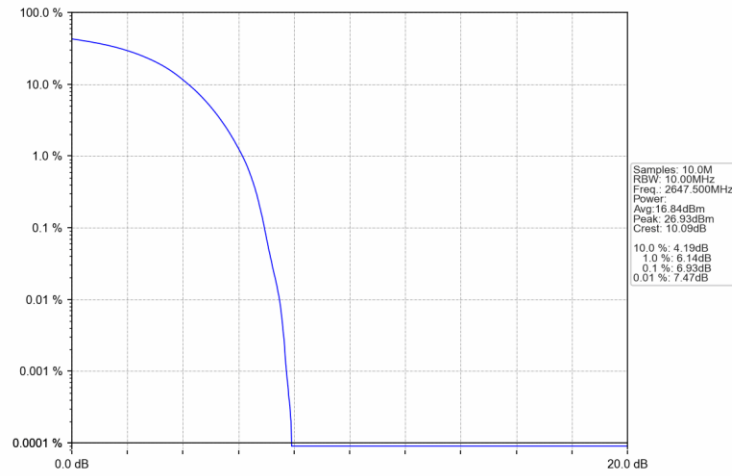
Band41_15MHz_QPSK_LCH_2562.5MHz_RB_75_0_NTNV



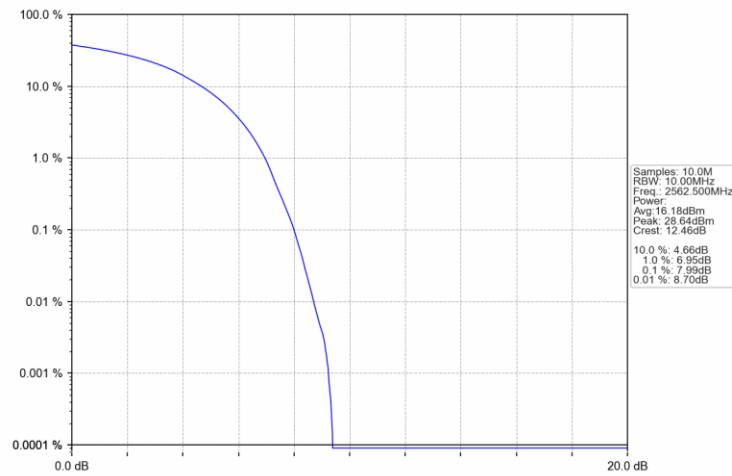
Band41_15MHz_QPSK_MCH_2605MHz_RB_75_0_NTNV



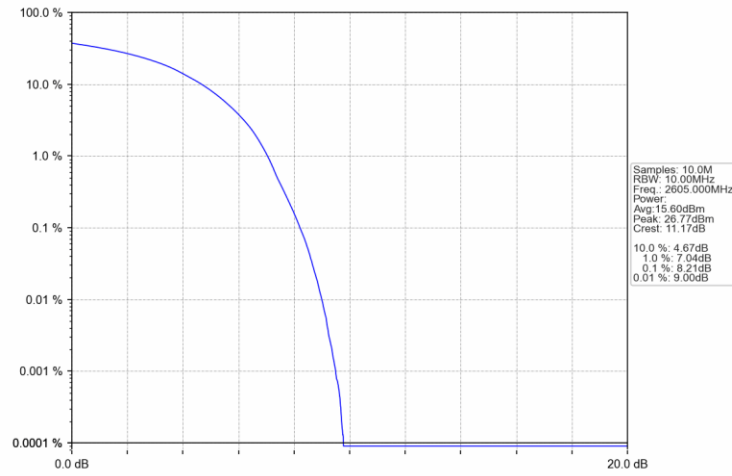
Band41_15MHz_QPSK_HCH_2647.5MHz_RB_75_0_NTNV



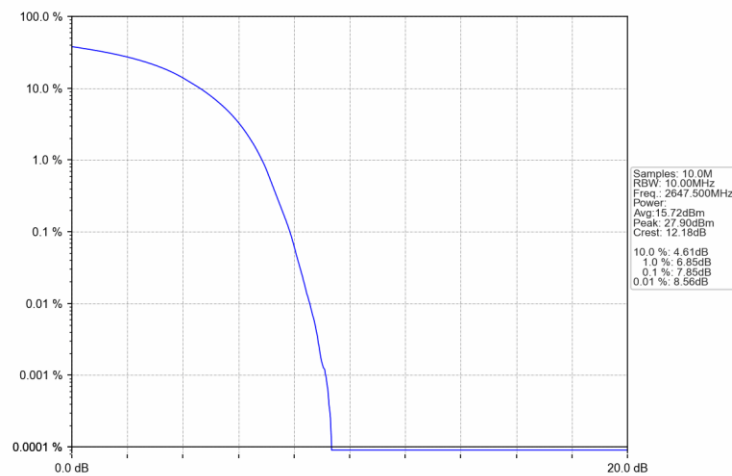
Band41_15MHz_16QAM_LCH_2562.5MHz_RB_75_0_NTNV



Band41_15MHz_16QAM_MCH_2605MHz_RB_75_0_NTNV



Band41_15MHz_16QAM_HCH_2647.5MHz_RB_75_0_NTNV



5.2.4 B41_20MHz

