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	23.77	1.12	24.89	<=33.01	Pass
			13	23.84	1.12	24.96	<=33.01	Pass
			24	23.73	1.12	24.85	<=33.01	Pass
		12	0	22.73	1.12	23.85	<=33.01	Pass
			6	22.82	1.12	23.94	<=33.01	Pass
			13	22.73	1.12	23.85	<=33.01	Pass
		25	0	22.79	1.12	23.91	<=33.01	Pass
	2605	1	0	23.37	1.12	24.49	<=33.01	Pass
			13	23.44	1.12	24.56	<=33.01	Pass
			24	23.38	1.12	24.50	<=33.01	Pass
		12	0	22.39	1.12	23.51	<=33.01	Pass
			6	22.53	1.12	23.65	<=33.01	Pass
			13	22.41	1.12	23.53	<=33.01	Pass
		25	0	22.43	1.12	23.55	<=33.01	Pass
	2652.5	1	0	23.36	1.12	24.48	<=33.01	Pass
			13	23.63	1.12	24.75	<=33.01	Pass
			24	23.43	1.12	24.55	<=33.01	Pass
		12	0	22.57	1.12	23.69	<=33.01	Pass
			6	22.58	1.12	23.70	<=33.01	Pass
			13	22.58	1.12	23.70	<=33.01	Pass
		25	0	22.62	1.12	23.74	<=33.01	Pass
16QAM	2557.5	1	0	22.71	1.12	23.83	<=33.01	Pass
			13	23.08	1.12	24.20	<=33.01	Pass
			24	22.72	1.12	23.84	<=33.01	Pass
		12	0	21.70	1.12	22.82	<=33.01	Pass
			6	21.70	1.12	22.82	<=33.01	Pass
			13	21.70	1.12	22.82	<=33.01	Pass
		25	0	21.71	1.12	22.83	<=33.01	Pass
	2605	1	0	22.42	1.12	23.54	<=33.01	Pass
			13	22.51	1.12	23.63	<=33.01	Pass
			24	22.36	1.12	23.48	<=33.01	Pass
		12	0	21.33	1.12	22.45	<=33.01	Pass
			6	21.37	1.12	22.49	<=33.01	Pass
			13	21.31	1.12	22.43	<=33.01	Pass
		25	0	21.42	1.12	22.54	<=33.01	Pass
	2652.5	1	0	22.59	1.12	23.71	<=33.01	Pass
			13	22.68	1.12	23.80	<=33.01	Pass
			24	22.53	1.12	23.65	<=33.01	Pass
		12	0	21.57	1.12	22.69	<=33.01	Pass
			6	21.59	1.12	22.71	<=33.01	Pass
			13	21.60	1.12	22.72	<=33.01	Pass
		25	0	21.57	1.12	22.69	<=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	23.81	1.12	24.93	<=33.01	Pass
			25	23.99	1.12	25.11	<=33.01	Pass
			49	23.84	1.12	24.96	<=33.01	Pass
		25	0	22.71	1.12	23.83	<=33.01	Pass
			13	22.79	1.12	23.91	<=33.01	Pass
			25	22.80	1.12	23.92	<=33.01	Pass
		50	0	22.76	1.12	23.88	<=33.01	Pass
	2605	1	0	23.57	1.12	24.69	<=33.01	Pass
			25	23.76	1.12	24.88	<=33.01	Pass
			49	23.55	1.12	24.67	<=33.01	Pass
		25	0	22.52	1.12	23.64	<=33.01	Pass
			13	22.53	1.12	23.65	<=33.01	Pass
			25	22.54	1.12	23.66	<=33.01	Pass
		50	0	22.52	1.12	23.64	<=33.01	Pass
	2650	1	0	23.57	1.12	24.69	<=33.01	Pass
			25	23.76	1.12	24.88	<=33.01	Pass
			49	23.63	1.12	24.75	<=33.01	Pass
		25	0	22.60	1.12	23.72	<=33.01	Pass
			13	22.61	1.12	23.73	<=33.01	Pass
			25	22.69	1.12	23.81	<=33.01	Pass
		50	0	22.66	1.12	23.78	<=33.01	Pass
16QAM	2560	1	0	22.86	1.12	23.98	<=33.01	Pass
			25	22.96	1.12	24.08	<=33.01	Pass
			49	22.79	1.12	23.91	<=33.01	Pass
		25	0	21.85	1.12	22.97	<=33.01	Pass
			13	21.78	1.12	22.90	<=33.01	Pass
			25	21.80	1.12	22.92	<=33.01	Pass
		50	0	21.81	1.12	22.93	<=33.01	Pass
	2605	1	0	22.66	1.12	23.78	<=33.01	Pass
			25	22.60	1.12	23.72	<=33.01	Pass
			49	22.43	1.12	23.55	<=33.01	Pass
		25	0	21.43	1.12	22.55	<=33.01	Pass
			13	21.41	1.12	22.53	<=33.01	Pass
			25	21.45	1.12	22.57	<=33.01	Pass
		50	0	21.47	1.12	22.59	<=33.01	Pass
	2650	1	0	22.50	1.12	23.62	<=33.01	Pass
			25	22.56	1.12	23.68	<=33.01	Pass
			49	22.47	1.12	23.59	<=33.01	Pass
		25	0	21.62	1.12	22.74	<=33.01	Pass
			13	21.65	1.12	22.77	<=33.01	Pass
			25	21.67	1.12	22.79	<=33.01	Pass
		50	0	21.64	1.12	22.76	<=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	23.73	1.12	24.85	<=33.01	Pass
			38	23.84	1.12	24.96	<=33.01	Pass
			74	23.72	1.12	24.84	<=33.01	Pass
		36	0	22.82	1.12	23.94	<=33.01	Pass
			18	22.84	1.12	23.96	<=33.01	Pass
			39	22.76	1.12	23.88	<=33.01	Pass
		75	0	22.84	1.12	23.96	<=33.01	Pass
	2605	1	0	23.34	1.12	24.46	<=33.01	Pass
			38	23.48	1.12	24.60	<=33.01	Pass
			74	23.31	1.12	24.43	<=33.01	Pass
		36	0	22.47	1.12	23.59	<=33.01	Pass
			18	22.60	1.12	23.72	<=33.01	Pass
			39	22.53	1.12	23.65	<=33.01	Pass
		75	0	22.48	1.12	23.60	<=33.01	Pass
	2647.5	1	0	23.61	1.12	24.73	<=33.01	Pass
			38	23.69	1.12	24.81	<=33.01	Pass
			74	23.55	1.12	24.67	<=33.01	Pass
		36	0	22.54	1.12	23.66	<=33.01	Pass
			18	22.55	1.12	23.67	<=33.01	Pass
			39	22.60	1.12	23.72	<=33.01	Pass
		75	0	22.65	1.12	23.77	<=33.01	Pass
16QAM	2562.5	1	0	22.67	1.12	23.79	<=33.01	Pass
			38	22.88	1.12	24.00	<=33.01	Pass
			74	22.67	1.12	23.79	<=33.01	Pass
		36	0	21.75	1.12	22.87	<=33.01	Pass
			18	21.77	1.12	22.89	<=33.01	Pass
			39	21.76	1.12	22.88	<=33.01	Pass
		75	0	21.75	1.12	22.87	<=33.01	Pass
	2605	1	0	22.28	1.12	23.40	<=33.01	Pass
			38	22.84	1.12	23.96	<=33.01	Pass
			74	22.45	1.12	23.57	<=33.01	Pass
		36	0	21.52	1.12	22.64	<=33.01	Pass
			18	21.45	1.12	22.57	<=33.01	Pass
			39	21.45	1.12	22.57	<=33.01	Pass
		75	0	21.50	1.12	22.62	<=33.01	Pass
	2647.5	1	0	22.40	1.12	23.52	<=33.01	Pass
			38	22.42	1.12	23.54	<=33.01	Pass
			74	22.37	1.12	23.49	<=33.01	Pass
		36	0	21.55	1.12	22.67	<=33.01	Pass
			18	21.56	1.12	22.68	<=33.01	Pass
			39	21.62	1.12	22.74	<=33.01	Pass
		75	0	21.59	1.12	22.71	<=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	23.50	1.12	24.62	<=33.01	Pass
			50	24.04	1.12	25.16	<=33.01	Pass
			99	23.49	1.12	24.61	<=33.01	Pass
		50	0	22.72	1.12	23.84	<=33.01	Pass
			25	22.75	1.12	23.87	<=33.01	Pass
			50	22.77	1.12	23.89	<=33.01	Pass
		100	0	22.73	1.12	23.85	<=33.01	Pass
	2605	1	0	23.18	1.12	24.30	<=33.01	Pass
			50	23.67	1.12	24.79	<=33.01	Pass
			99	23.15	1.12	24.27	<=33.01	Pass
		50	0	22.43	1.12	23.55	<=33.01	Pass
			25	22.51	1.12	23.63	<=33.01	Pass
			50	22.41	1.12	23.53	<=33.01	Pass
		100	0	22.37	1.12	23.49	<=33.01	Pass
	2645	1	0	23.43	1.12	24.55	<=33.01	Pass
			50	23.87	1.12	24.99	<=33.01	Pass
			99	23.18	1.12	24.30	<=33.01	Pass
		50	0	22.55	1.12	23.67	<=33.01	Pass
			25	22.58	1.12	23.70	<=33.01	Pass
			50	22.61	1.12	23.73	<=33.01	Pass
		100	0	22.57	1.12	23.69	<=33.01	Pass
16QAM	2565	1	0	22.45	1.12	23.57	<=33.01	Pass
			50	22.89	1.12	24.01	<=33.01	Pass
			99	22.43	1.12	23.55	<=33.01	Pass
		50	0	21.64	1.12	22.76	<=33.01	Pass
			25	21.69	1.12	22.81	<=33.01	Pass
			50	21.71	1.12	22.83	<=33.01	Pass
		100	0	21.66	1.12	22.78	<=33.01	Pass
	2605	1	0	22.28	1.12	23.40	<=33.01	Pass
			50	22.64	1.12	23.76	<=33.01	Pass
			99	21.78	1.12	22.90	<=33.01	Pass
		50	0	21.42	1.12	22.54	<=33.01	Pass
			25	21.44	1.12	22.56	<=33.01	Pass
			50	21.38	1.12	22.50	<=33.01	Pass
		100	0	21.39	1.12	22.51	<=33.01	Pass
	2645	1	0	22.49	1.12	23.61	<=33.01	Pass
			50	22.57	1.12	23.69	<=33.01	Pass
			99	22.45	1.12	23.57	<=33.01	Pass
		50	0	21.49	1.12	22.61	<=33.01	Pass
			25	21.60	1.12	22.72	<=33.01	Pass
			50	21.62	1.12	22.74	<=33.01	Pass
		100	0	21.58	1.12	22.70	<=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	2557.5	25	0	20	3.27	1.187	0.0005	-2.5 to 2.5	Pass
					3.85	-0.029	0.0000	-2.5 to 2.5	Pass
					4.43	4.363	0.0017	-2.5 to 2.5	Pass
				-30	3.85	3.347	0.0013	-2.5 to 2.5	Pass
				-20	3.85	5.064	0.0020	-2.5 to 2.5	Pass
				-10	3.85	2.632	0.0010	-2.5 to 2.5	Pass
				0	3.85	4.163	0.0016	-2.5 to 2.5	Pass
				10	3.85	0.930	0.0004	-2.5 to 2.5	Pass
				30	3.85	1.631	0.0006	-2.5 to 2.5	Pass
				40	3.85	2.661	0.0010	-2.5 to 2.5	Pass
				50	3.85	1.960	0.0008	-2.5 to 2.5	Pass
	2605	25	0	20	3.27	-6.137	-0.0024	-2.5 to 2.5	Pass
					3.85	-12.217	-0.0047	-2.5 to 2.5	Pass
					4.43	-11.458	-0.0044	-2.5 to 2.5	Pass
				-30	3.85	-10.071	-0.0039	-2.5 to 2.5	Pass
				-20	3.85	-7.954	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	-5.636	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-11.430	-0.0044	-2.5 to 2.5	Pass
				10	3.85	-11.444	-0.0044	-2.5 to 2.5	Pass
				30	3.85	-10.171	-0.0039	-2.5 to 2.5	Pass
				40	3.85	-11.315	-0.0043	-2.5 to 2.5	Pass
				50	3.85	-7.682	-0.0029	-2.5 to 2.5	Pass
	2652.5	25	0	20	3.27	-4.878	-0.0018	-2.5 to 2.5	Pass
					3.85	-15.907	-0.0060	-2.5 to 2.5	Pass
					4.43	-10.471	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-4.120	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-10.629	-0.0040	-2.5 to 2.5	Pass
				-10	3.85	-5.307	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-5.994	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-10.400	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-14.663	-0.0055	-2.5 to 2.5	Pass
				40	3.85	-15.063	-0.0057	-2.5 to 2.5	Pass
				50	3.85	-7.496	-0.0028	-2.5 to 2.5	Pass
16QAM	2557.5	25	0	20	3.27	3.948	0.0015	-2.5 to 2.5	Pass
					3.85	9.384	0.0037	-2.5 to 2.5	Pass
					4.43	7.925	0.0031	-2.5 to 2.5	Pass
				-30	3.85	6.809	0.0027	-2.5 to 2.5	Pass
				-20	3.85	10.343	0.0040	-2.5 to 2.5	Pass
				-10	3.85	12.631	0.0049	-2.5 to 2.5	Pass
				0	3.85	8.383	0.0033	-2.5 to 2.5	Pass
				10	3.85	6.866	0.0027	-2.5 to 2.5	Pass
				30	3.85	10.071	0.0039	-2.5 to 2.5	Pass
				40	3.85	13.704	0.0054	-2.5 to 2.5	Pass
				50	3.85	15.950	0.0062	-2.5 to 2.5	Pass
	2605	25	0	20	3.27	-10.715	-0.0041	-2.5 to 2.5	Pass
					3.85	-13.275	-0.0051	-2.5 to 2.5	Pass
					4.43	-12.174	-0.0047	-2.5 to 2.5	Pass
				-30	3.85	-12.774	-0.0049	-2.5 to 2.5	Pass
				-20	3.85	-15.621	-0.0060	-2.5 to 2.5	Pass
				-10	3.85	-7.710	-0.0030	-2.5 to 2.5	Pass

				0	3.85	-10.028	-0.0038	-2.5 to 2.5	Pass
				10	3.85	-6.995	-0.0027	-2.5 to 2.5	Pass
				30	3.85	-17.495	-0.0067	-2.5 to 2.5	Pass
				40	3.85	-10.500	-0.0040	-2.5 to 2.5	Pass
				50	3.85	-6.623	-0.0025	-2.5 to 2.5	Pass
	2652.5	25	0	20	3.27	-6.065	-0.0023	-2.5 to 2.5	Pass
					3.85	-2.561	-0.0010	-2.5 to 2.5	Pass
					4.43	-8.054	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	-6.380	-0.0024	-2.5 to 2.5	Pass
				-20	3.85	-4.563	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-11.101	-0.0042	-2.5 to 2.5	Pass
				0	3.85	1.087	0.0004	-2.5 to 2.5	Pass
				10	3.85	-4.864	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-4.663	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-3.748	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-10.543	-0.0040	-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	2560	50	0	20	3.27	-12.903	-0.0050	-2.5 to 2.5	Pass
					3.85	-9.842	-0.0038	-2.5 to 2.5	Pass
					4.43	-6.380	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	-4.792	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-2.246	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-8.383	-0.0033	-2.5 to 2.5	Pass
				0	3.85	-3.633	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-6.495	-0.0025	-2.5 to 2.5	Pass
				30	3.85	-8.225	-0.0032	-2.5 to 2.5	Pass
				40	3.85	-4.864	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-8.969	-0.0035	-2.5 to 2.5	Pass
	2605	50	0	20	3.27	-12.045	-0.0046	-2.5 to 2.5	Pass
					3.85	-8.898	-0.0034	-2.5 to 2.5	Pass
					4.43	-6.266	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	-12.817	-0.0049	-2.5 to 2.5	Pass
				-20	3.85	-9.656	-0.0037	-2.5 to 2.5	Pass
				-10	3.85	-3.691	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-15.478	-0.0059	-2.5 to 2.5	Pass
				10	3.85	-12.989	-0.0050	-2.5 to 2.5	Pass
				30	3.85	-9.670	-0.0037	-2.5 to 2.5	Pass
				40	3.85	-9.184	-0.0035	-2.5 to 2.5	Pass
				50	3.85	-7.896	-0.0030	-2.5 to 2.5	Pass
	2650	50	0	20	3.27	-6.709	-0.0025	-2.5 to 2.5	Pass
					3.85	-17.982	-0.0068	-2.5 to 2.5	Pass
					4.43	-10.042	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-14.791	-0.0056	-2.5 to 2.5	Pass
				-20	3.85	-12.860	-0.0049	-2.5 to 2.5	Pass
				-10	3.85	-11.501	-0.0043	-2.5 to 2.5	Pass
				0	3.85	-8.812	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-16.994	-0.0064	-2.5 to 2.5	Pass
				30	3.85	-6.008	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-11.315	-0.0043	-2.5 to 2.5	Pass
				50	3.85	-19.956	-0.0075	-2.5 to 2.5	Pass
16QAM	2560	50	0	20	3.27	-9.928	-0.0039	-2.5 to 2.5	Pass
					3.85	-7.381	-0.0029	-2.5 to 2.5	Pass
					4.43	-9.885	-0.0039	-2.5 to 2.5	Pass

				-30	3.85	-9.756	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-8.526	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-6.795	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-4.005	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-4.263	-0.0017	-2.5 to 2.5	Pass
				30	3.85	-7.052	-0.0028	-2.5 to 2.5	Pass
				40	3.85	-6.037	-0.0024	-2.5 to 2.5	Pass
				50	3.85	-9.012	-0.0035	-2.5 to 2.5	Pass
	2605	50	0	20	3.27	-6.466	-0.0025	-2.5 to 2.5	Pass
					3.85	-7.982	-0.0031	-2.5 to 2.5	Pass
					4.43	-5.622	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-3.862	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	-15.678	-0.0060	-2.5 to 2.5	Pass
				-10	3.85	-16.866	-0.0065	-2.5 to 2.5	Pass
				0	3.85	-5.980	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-7.768	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-13.576	-0.0052	-2.5 to 2.5	Pass
				40	3.85	-15.178	-0.0058	-2.5 to 2.5	Pass
				50	3.85	-11.201	-0.0043	-2.5 to 2.5	Pass
	2650	50	0	20	3.27	-8.597	-0.0032	-2.5 to 2.5	Pass
					3.85	-16.551	-0.0062	-2.5 to 2.5	Pass
					4.43	-12.803	-0.0048	-2.5 to 2.5	Pass
				-30	3.85	-14.577	-0.0055	-2.5 to 2.5	Pass
				-20	3.85	-9.627	-0.0036	-2.5 to 2.5	Pass
				-10	3.85	-14.606	-0.0055	-2.5 to 2.5	Pass
				0	3.85	-12.259	-0.0046	-2.5 to 2.5	Pass
				10	3.85	-14.834	-0.0056	-2.5 to 2.5	Pass
				30	3.85	-15.078	-0.0057	-2.5 to 2.5	Pass
				40	3.85	-9.241	-0.0035	-2.5 to 2.5	Pass
				50	3.85	-6.423	-0.0024	-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	2562.5	75	0	20	3.27	-10.843	-0.0042	-2.5 to 2.5	Pass
					3.85	-7.210	-0.0028	-2.5 to 2.5	Pass
					4.43	-12.388	-0.0048	-2.5 to 2.5	Pass
				-30	3.85	-7.510	-0.0029	-2.5 to 2.5	Pass
				-20	3.85	-6.995	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-2.031	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-3.090	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-8.740	-0.0034	-2.5 to 2.5	Pass
				30	3.85	-1.674	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-7.496	-0.0029	-2.5 to 2.5	Pass
				50	3.85	-9.742	-0.0038	-2.5 to 2.5	Pass
	2605	75	0	20	3.27	-10.672	-0.0041	-2.5 to 2.5	Pass
					3.85	-9.341	-0.0036	-2.5 to 2.5	Pass
					4.43	-6.208	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	-9.527	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-13.204	-0.0051	-2.5 to 2.5	Pass
				-10	3.85	-9.341	-0.0036	-2.5 to 2.5	Pass
				0	3.85	-10.529	-0.0040	-2.5 to 2.5	Pass
				10	3.85	-7.997	-0.0031	-2.5 to 2.5	Pass
				30	3.85	-12.274	-0.0047	-2.5 to 2.5	Pass
				40	3.85	-10.772	-0.0041	-2.5 to 2.5	Pass
				50	3.85	-15.407	-0.0059	-2.5 to 2.5	Pass

	2647.5	75	0	20	3.27	-8.612	-0.0033	-2.5 to 2.5	Pass
					3.85	-11.616	-0.0044	-2.5 to 2.5	Pass
					4.43	-12.517	-0.0047	-2.5 to 2.5	Pass
				-30	3.85	-4.849	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-6.266	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	-8.597	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-12.403	-0.0047	-2.5 to 2.5	Pass
				10	3.85	-12.059	-0.0046	-2.5 to 2.5	Pass
				30	3.85	-2.217	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-14.949	-0.0056	-2.5 to 2.5	Pass
				50	3.85	-1.817	-0.0007	-2.5 to 2.5	Pass
16QAM	2562.5	75	0	20	3.27	-6.123	-0.0024	-2.5 to 2.5	Pass
					3.85	-10.314	-0.0040	-2.5 to 2.5	Pass
					4.43	-7.596	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	-2.089	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-7.339	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	-6.423	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-5.136	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-6.409	-0.0025	-2.5 to 2.5	Pass
				30	3.85	-3.633	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-8.769	-0.0034	-2.5 to 2.5	Pass
				50	3.85	-7.410	-0.0029	-2.5 to 2.5	Pass
	2605	75	0	20	3.27	-12.002	-0.0046	-2.5 to 2.5	Pass
					3.85	-3.562	-0.0014	-2.5 to 2.5	Pass
					4.43	-12.116	-0.0047	-2.5 to 2.5	Pass
				-30	3.85	-9.642	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-5.579	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-8.268	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-8.869	-0.0034	-2.5 to 2.5	Pass
				10	3.85	-9.084	-0.0035	-2.5 to 2.5	Pass
				30	3.85	-5.951	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-3.891	-0.0015	-2.5 to 2.5	Pass
				50	3.85	-8.097	-0.0031	-2.5 to 2.5	Pass
	2647.5	75	0	20	3.27	-6.881	-0.0026	-2.5 to 2.5	Pass
					3.85	-13.661	-0.0052	-2.5 to 2.5	Pass
					4.43	-7.138	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	-6.695	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-14.606	-0.0055	-2.5 to 2.5	Pass
				-10	3.85	-3.519	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-6.752	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-7.768	-0.0029	-2.5 to 2.5	Pass
				30	3.85	-9.441	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-15.264	-0.0058	-2.5 to 2.5	Pass
				50	3.85	-12.517	-0.0047	-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	2565	100	0	20	3.27	-8.283	-0.0032	-2.5 to 2.5	Pass
					3.85	-10.600	-0.0041	-2.5 to 2.5	Pass
					4.43	-7.267	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-4.721	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-8.998	-0.0035	-2.5 to 2.5	Pass
				-10	3.85	-4.520	-0.0018	-2.5 to 2.5	Pass
				0	3.85	-5.250	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-5.808	-0.0023	-2.5 to 2.5	Pass

				30	3.85	-8.941	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-10.114	-0.0039	-2.5 to 2.5	Pass
				50	3.85	-6.809	-0.0027	-2.5 to 2.5	Pass
	2605	100	0	20	3.27	-9.899	-0.0038	-2.5 to 2.5	Pass
					3.85	-8.097	-0.0031	-2.5 to 2.5	Pass
					4.43	-9.799	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-14.119	-0.0054	-2.5 to 2.5	Pass
				-20	3.85	-4.578	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	-9.885	-0.0038	-2.5 to 2.5	Pass
				0	3.85	-9.971	-0.0038	-2.5 to 2.5	Pass
				10	3.85	-11.401	-0.0044	-2.5 to 2.5	Pass
				30	3.85	-10.729	-0.0041	-2.5 to 2.5	Pass
				40	3.85	-3.018	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-4.621	-0.0018	-2.5 to 2.5	Pass
	2645	100	0	20	3.27	-2.689	-0.0010	-2.5 to 2.5	Pass
					3.85	-7.753	-0.0029	-2.5 to 2.5	Pass
					4.43	-9.112	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-10.772	-0.0041	-2.5 to 2.5	Pass
				-20	3.85	-2.990	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-5.579	-0.0021	-2.5 to 2.5	Pass
				0	3.85	-3.948	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-8.025	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-5.479	-0.0021	-2.5 to 2.5	Pass
				40	3.85	-10.386	-0.0039	-2.5 to 2.5	Pass
				50	3.85	-14.806	-0.0056	-2.5 to 2.5	Pass
16QAM	2565	100	0	20	3.27	-2.446	-0.0010	-2.5 to 2.5	Pass
					3.85	-9.141	-0.0036	-2.5 to 2.5	Pass
					4.43	-4.349	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-4.907	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-2.503	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	0.315	0.0001	-2.5 to 2.5	Pass
				0	3.85	-6.595	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-7.539	-0.0029	-2.5 to 2.5	Pass
				30	3.85	-3.719	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-4.964	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-6.552	-0.0026	-2.5 to 2.5	Pass
	2605	100	0	20	3.27	-6.480	-0.0025	-2.5 to 2.5	Pass
					3.85	-8.326	-0.0032	-2.5 to 2.5	Pass
					4.43	-7.167	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-6.537	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-8.211	-0.0032	-2.5 to 2.5	Pass
				-10	3.85	-3.419	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-3.333	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-10.185	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-2.403	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-4.263	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-3.905	-0.0015	-2.5 to 2.5	Pass
	2645	100	0	20	3.27	-6.466	-0.0024	-2.5 to 2.5	Pass
					3.85	-4.907	-0.0019	-2.5 to 2.5	Pass
					4.43	-10.829	-0.0041	-2.5 to 2.5	Pass
				-30	3.85	-9.384	-0.0035	-2.5 to 2.5	Pass
				-20	3.85	-11.945	-0.0045	-2.5 to 2.5	Pass
				-10	3.85	-11.716	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-12.245	-0.0046	-2.5 to 2.5	Pass
				10	3.85	-6.008	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-11.444	-0.0043	-2.5 to 2.5	Pass
				40	3.85	-6.108	-0.0023	-2.5 to 2.5	Pass
				50	3.85	-10.371	-0.0039	-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

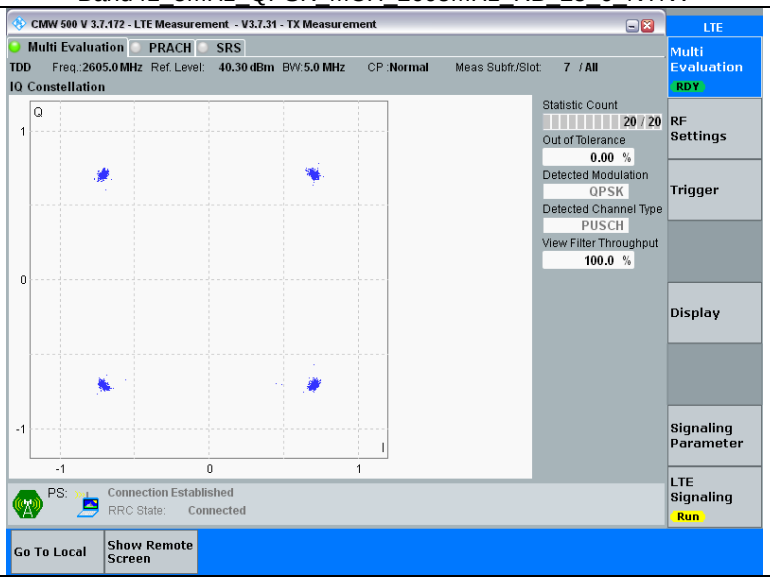
3.1.4 B41_20MHz

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

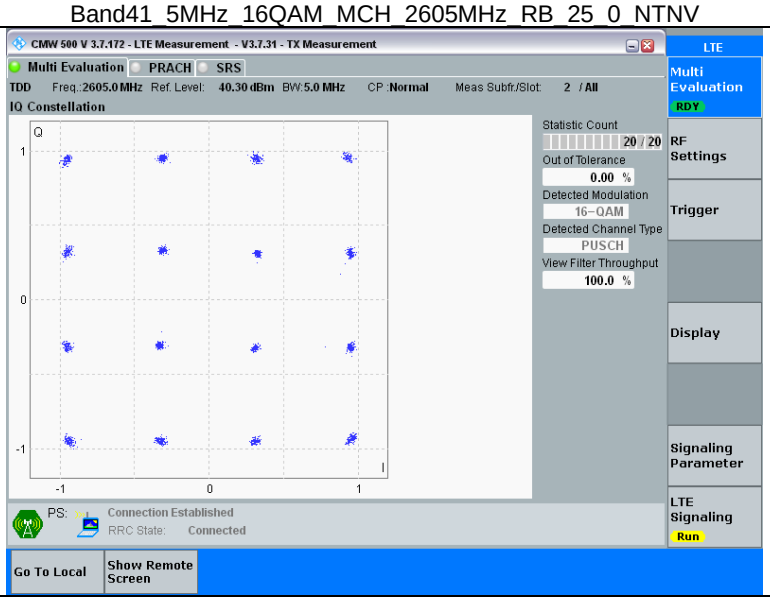
3.2 Test Graph

3.2.1 B41_5MHz

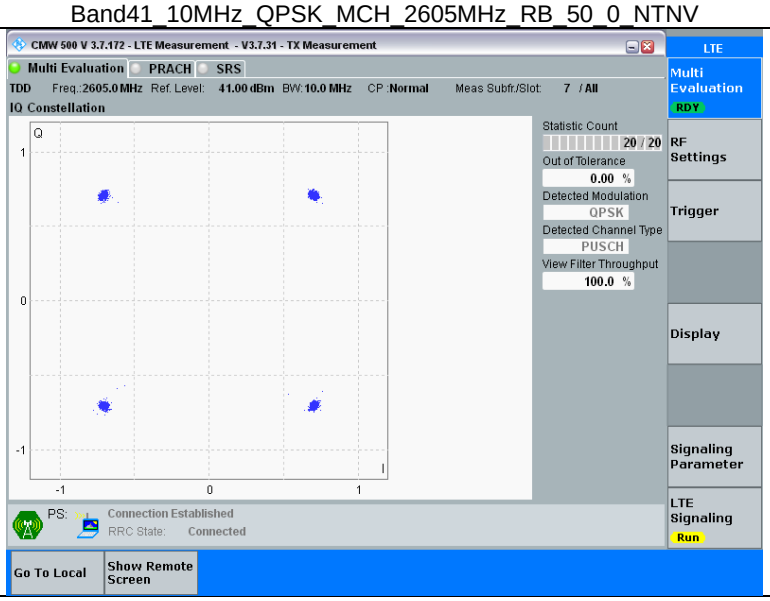
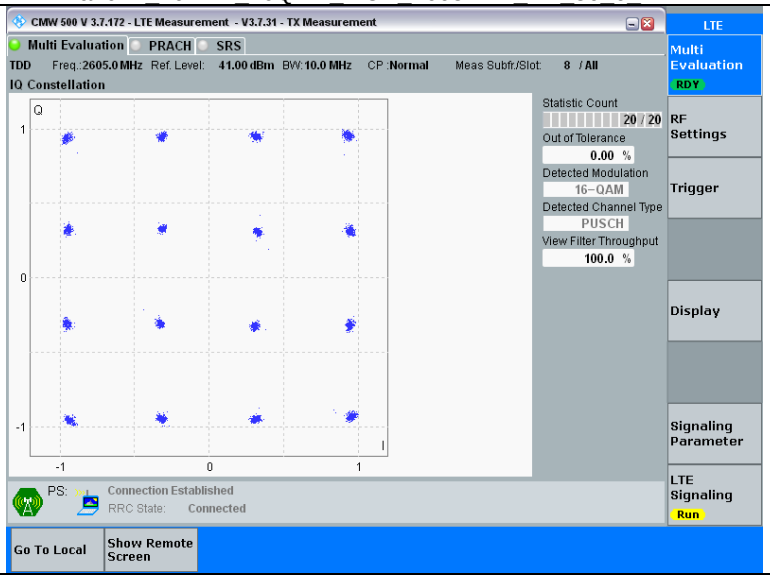
Band41_5MHz_QPSK_MCH_2605MHz_RB_25_0_NTNV



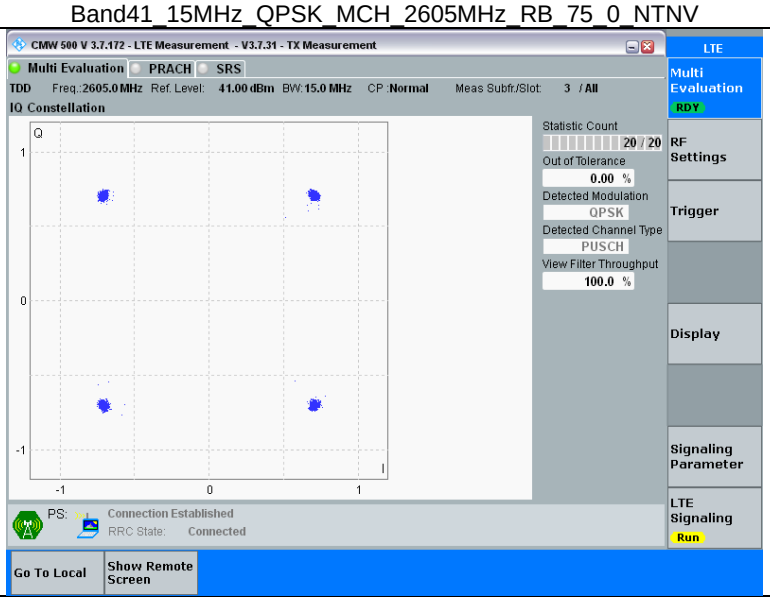
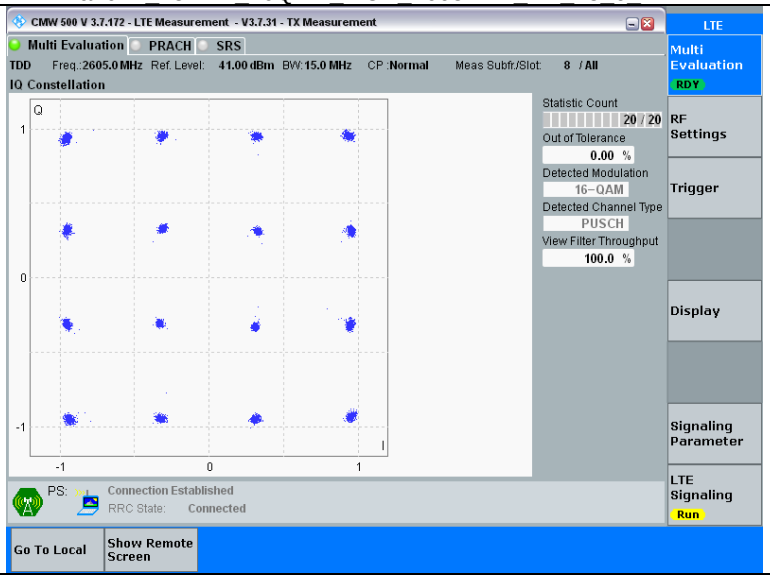
Band41_5MHz_16QAM_MCH_2605MHz_RB_25_0_NTNV



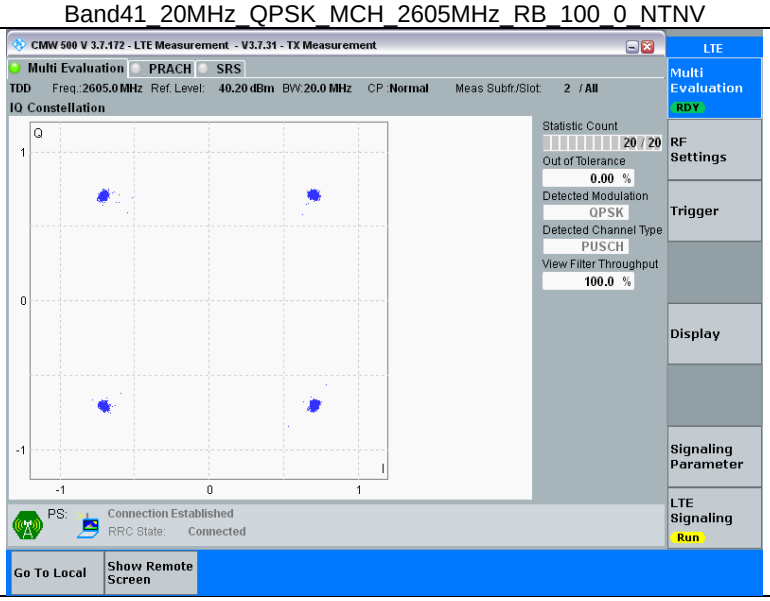
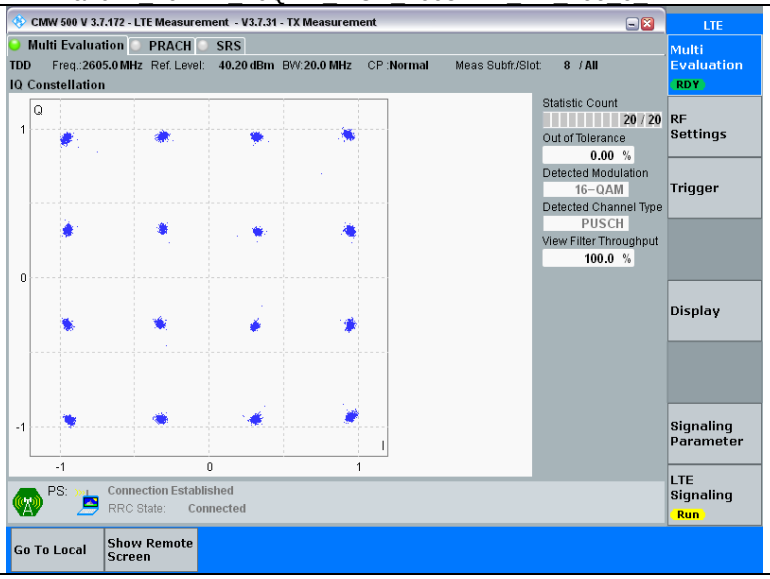
3.2.2 B41_10MHz

Band41_10MHz_QPSK_MCH_2605MHz_RB_50_0_NTNV

Band41_10MHz_16QAM_MCH_2605MHz_RB_50_0_NTNV


3.2.3 B41_15MHz

Band41_15MHz_QPSK_MCH_2605MHz_RB_75_0_NTNV

Band41_15MHz_16QAM_MCH_2605MHz_RB_75_0_NTNV


3.2.4 B41_20MHz

Band41_20MHz_QPSK_MCH_2605MHz_RB_100_0_NTNV

Band41_20MHz_16QAM_MCH_2605MHz_RB_100_0_NTNV


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	4.558	/	Pass
		2605	25	0	4.549	/	Pass
		2652.5	25	0	4.555	/	Pass
	16QAM	2557.5	25	0	4.543	/	Pass
		2605	25	0	4.541	/	Pass
		2652.5	25	0	4.573	/	Pass
10	QPSK	2560	50	0	9.068	/	Pass
		2605	50	0	9.075	/	Pass
		2650	50	0	9.081	/	Pass
	16QAM	2560	50	0	9.053	/	Pass
		2605	50	0	9.078	/	Pass
		2650	50	0	9.078	/	Pass
15	QPSK	2562.5	75	0	13.625	/	Pass
		2605	75	0	13.560	/	Pass
		2647.5	75	0	13.571	/	Pass
	16QAM	2562.5	75	0	13.634	/	Pass
		2605	75	0	13.641	/	Pass
		2647.5	75	0	13.612	/	Pass
20	QPSK	2565	100	0	18.069	/	Pass
		2605	100	0	18.170	/	Pass
		2645	100	0	18.144	/	Pass
	16QAM	2565	100	0	18.098	/	Pass
		2605	100	0	18.078	/	Pass
		2645	100	0	18.135	/	Pass

4.1.2 Band41_XDB

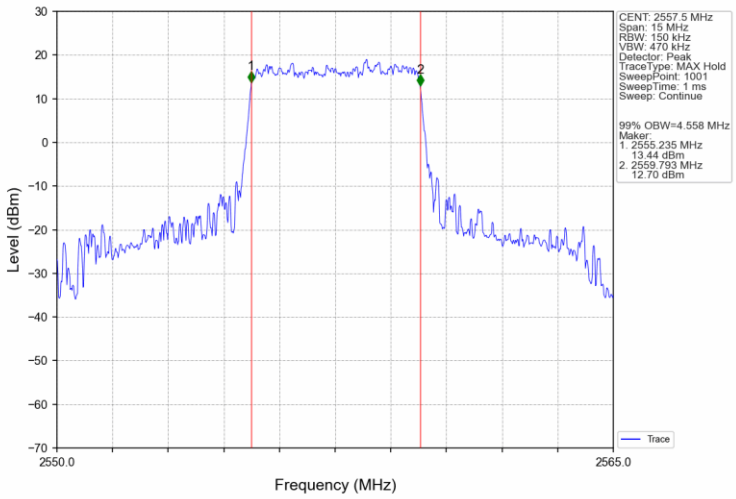
Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2557.5	25	0	5.087	/	Pass
		2605	25	0	5.396	/	Pass
		2652.5	25	0	5.426	/	Pass
	16QAM	2557.5	25	0	5.333	/	Pass
		2605	25	0	5.571	/	Pass
		2652.5	25	0	5.004	/	Pass
10	QPSK	2560	50	0	9.956	/	Pass
		2605	50	0	9.963	/	Pass
		2650	50	0	10.313	/	Pass
	16QAM	2560	50	0	10.312	/	Pass
		2605	50	0	11.101	/	Pass
		2650	50	0	9.873	/	Pass
15	QPSK	2562.5	75	0	15.101	/	Pass
		2605	75	0	15.026	/	Pass
		2647.5	75	0	15.286	/	Pass
	16QAM	2562.5	75	0	15.811	/	Pass
		2605	75	0	18.159	/	Pass
		2647.5	75	0	16.574	/	Pass
20	QPSK	2565	100	0	21.494	/	Pass

		2605	100	0	20.501	/	Pass
		2645	100	0	21.289	/	Pass
	16QAM	2565	100	0	21.846	/	Pass
		2605	100	0	19.708	/	Pass
		2645	100	0	20.205	/	Pass

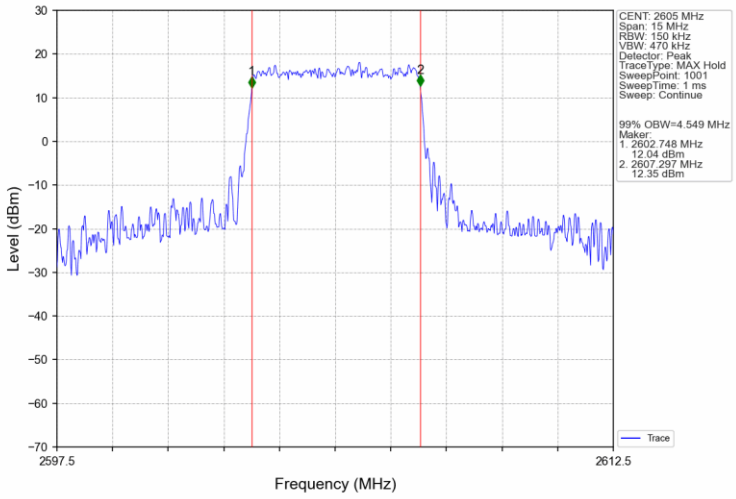
4.2 Test Graph

4.2.1 Band41_OBW

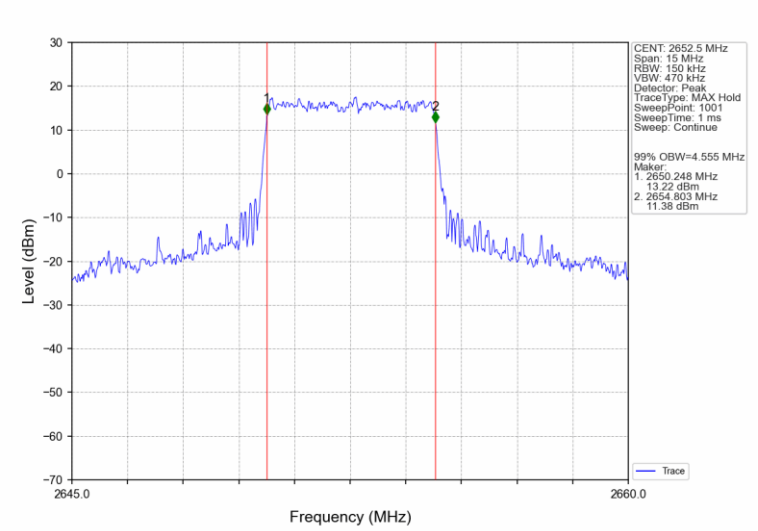
Band41_5MHz_QPSK_LCH_2557.5MHz_RB_25_0_NTNV



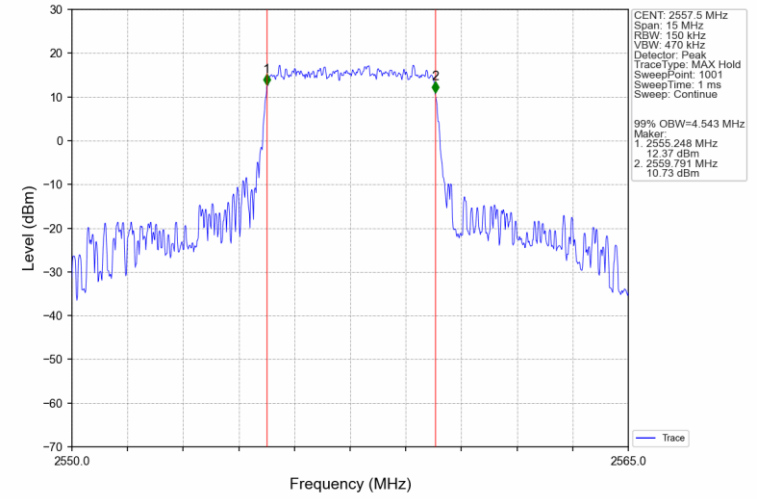
Band41_5MHz_QPSK_MCH_2605MHz_RB_25_0_NTNV



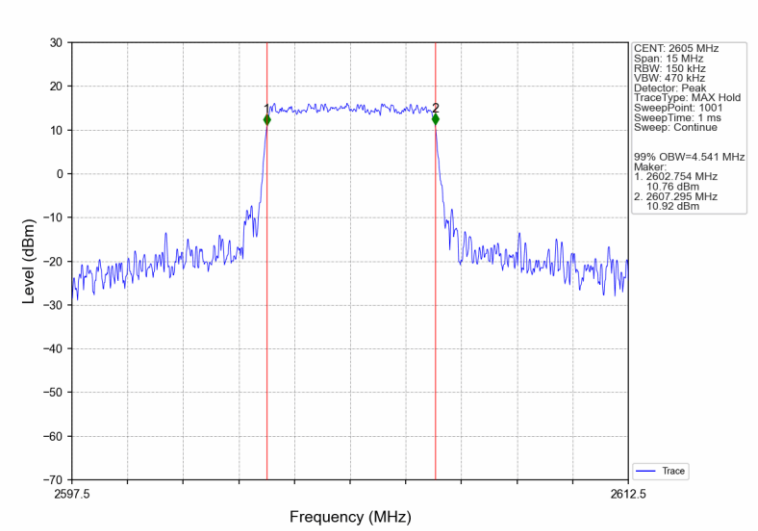
Band41_5MHz_QPSK_HCH_2652.5MHz_RB_25_0_NTNV



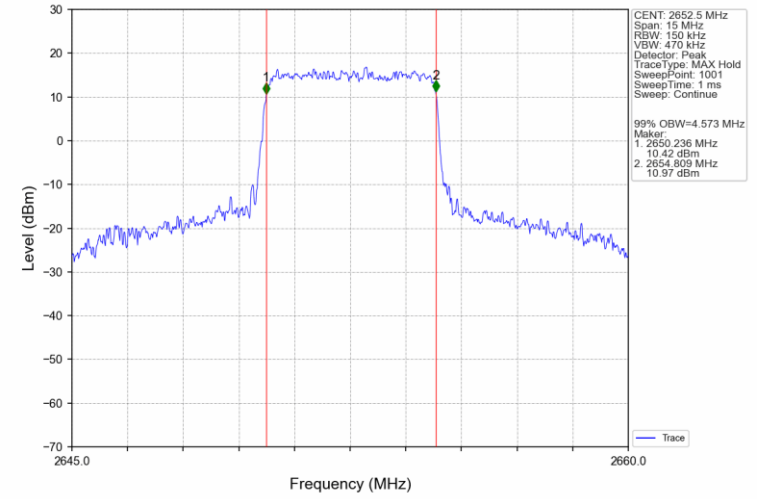
Band41_5MHz_16QAM_LCH_2557.5MHz_RB_25_0_NTNV



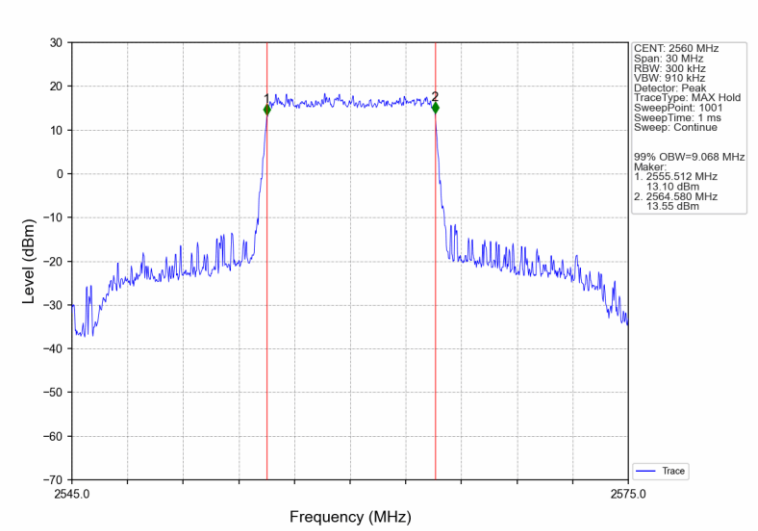
Band41_5MHz_16QAM_MCH_2605MHz_RB_25_0_NTNV



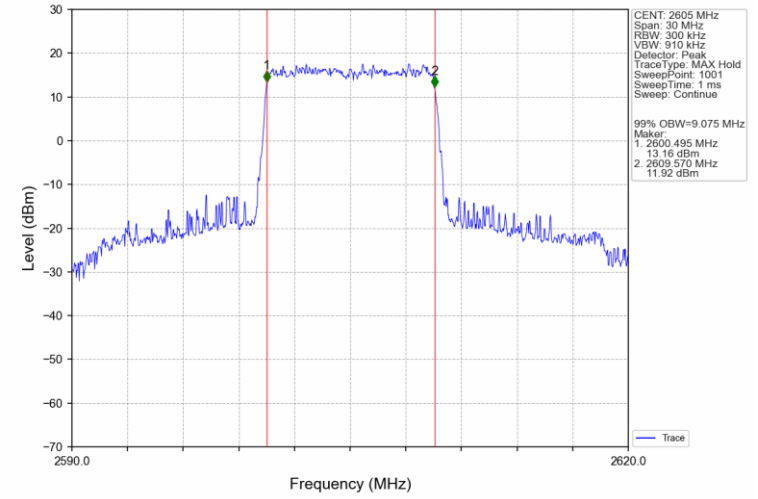
Band41_5MHz_16QAM_HCH_2652.5MHz_RB_25_0_NTNV



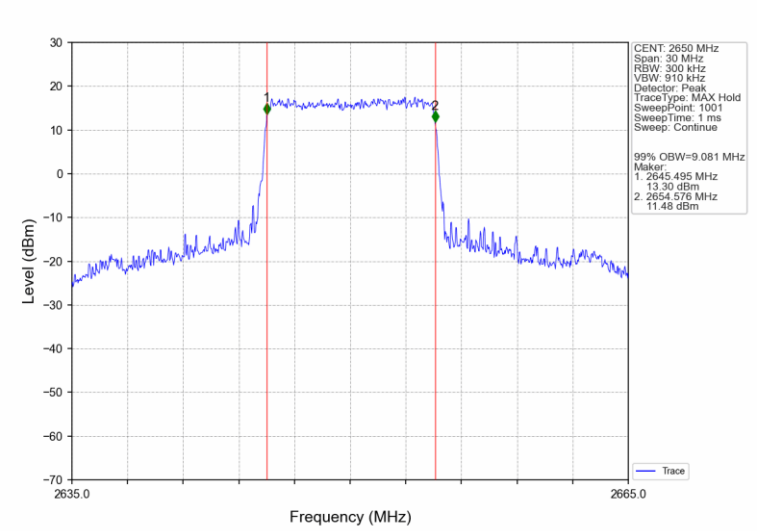
Band41_10MHz_QPSK_LCH_2560MHz_RB_50_0_NTNV



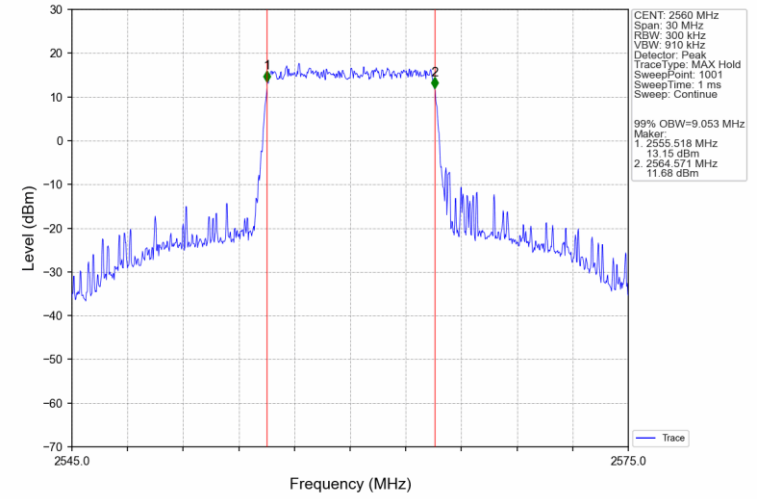
Band41_10MHz_QPSK_MCH_2605MHz_RB_50_0_NTNV



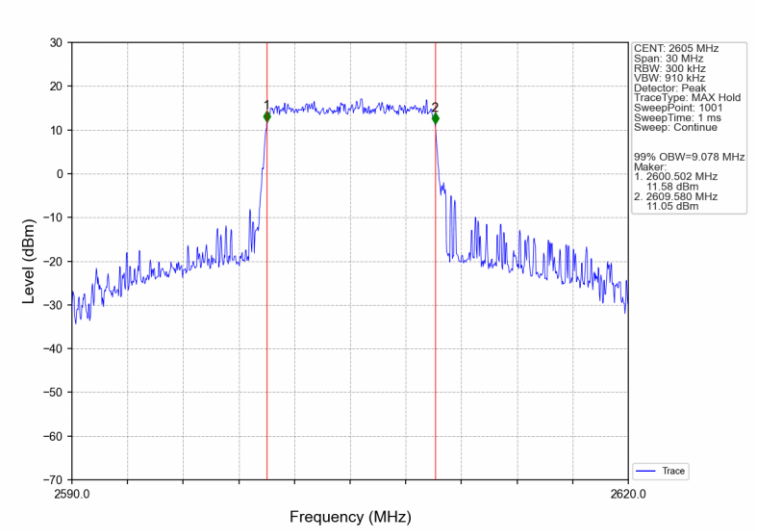
Band41_10MHz_QPSK_HCH_2650MHz_RB_50_0_NTNV



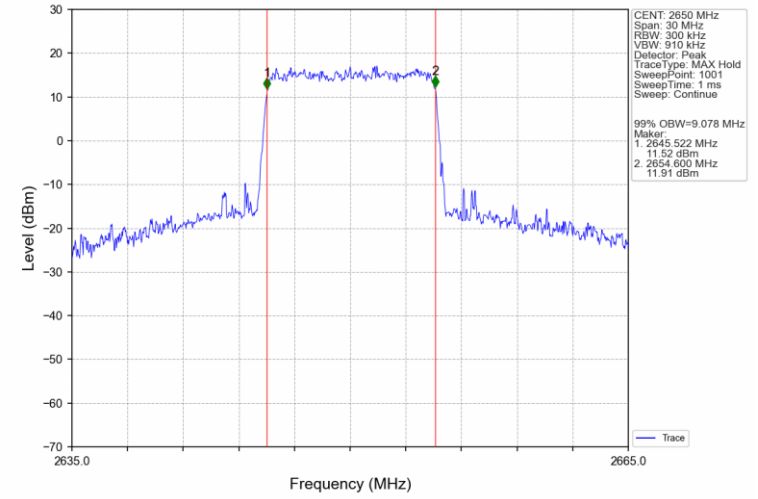
Band41_10MHz_16QAM_LCH_2560MHz_RB_50_0_NTNV



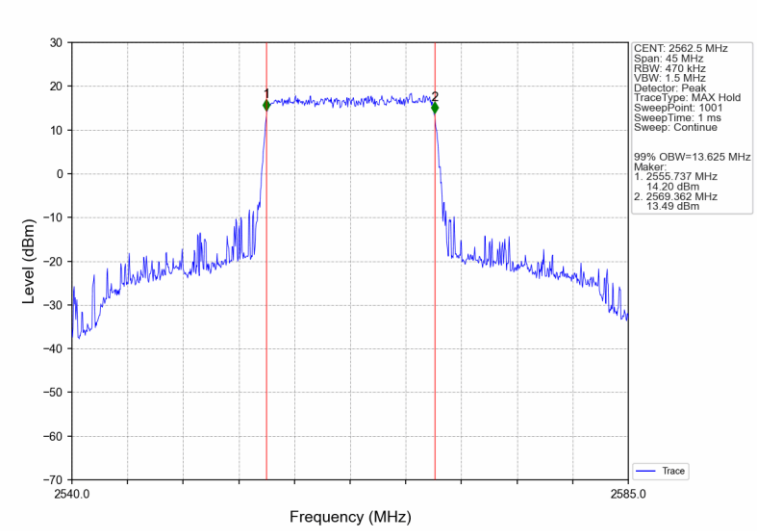
Band41_10MHz_16QAM_MCH_2605MHz_RB_50_0_NTNV



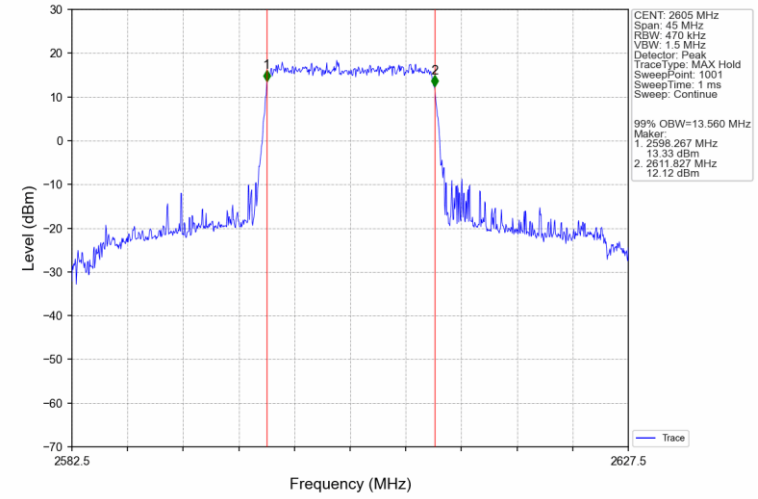
Band41_10MHz_16QAM_HCH_2650MHz_RB_50_0_NTNV



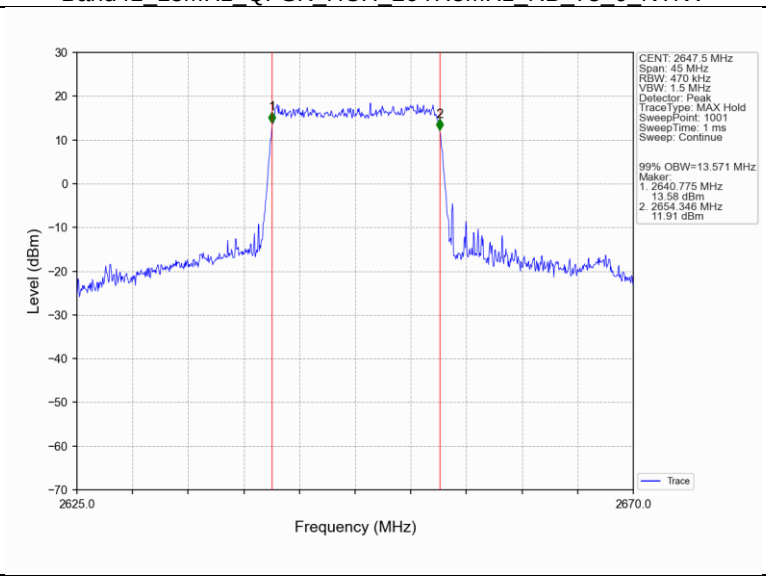
Band41_15MHz_QPSK_LCH_2562.5MHz_RB_75_0_NTNV



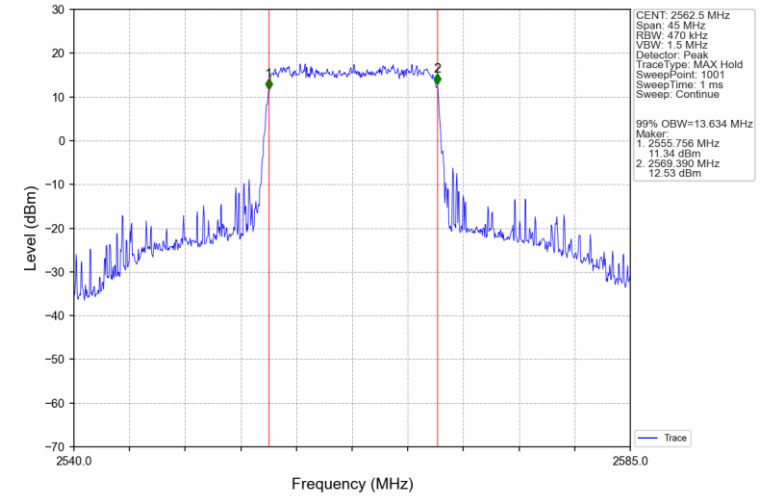
Band41_15MHz_QPSK_MCH_2605MHz_RB_75_0_NTNV



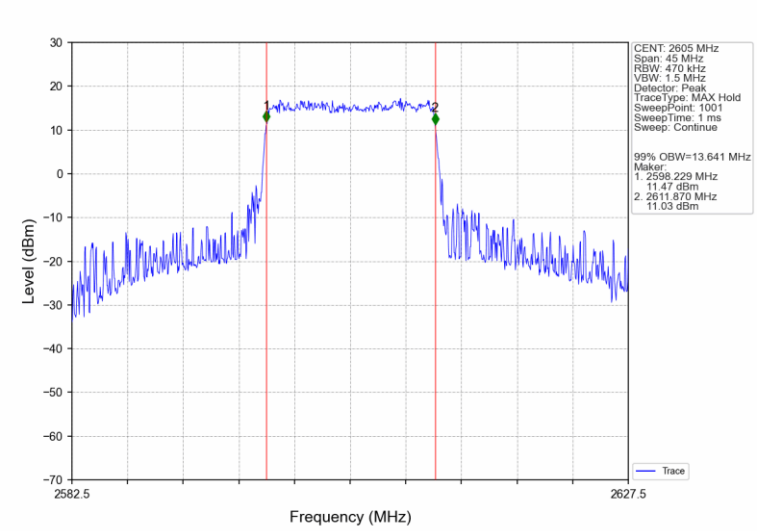
Band41_15MHz_QPSK_HCH_2647.5MHz_RB_75_0_NTNV



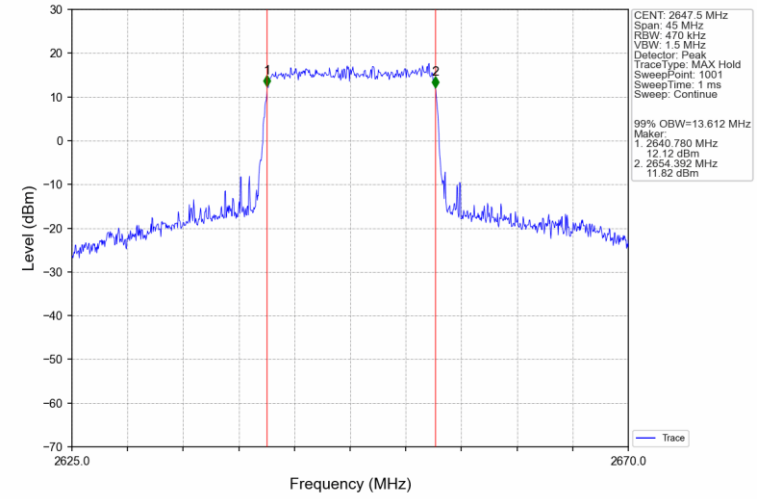
Band41_15MHz_16QAM_LCH_2562.5MHz_RB_75_0_NTNV



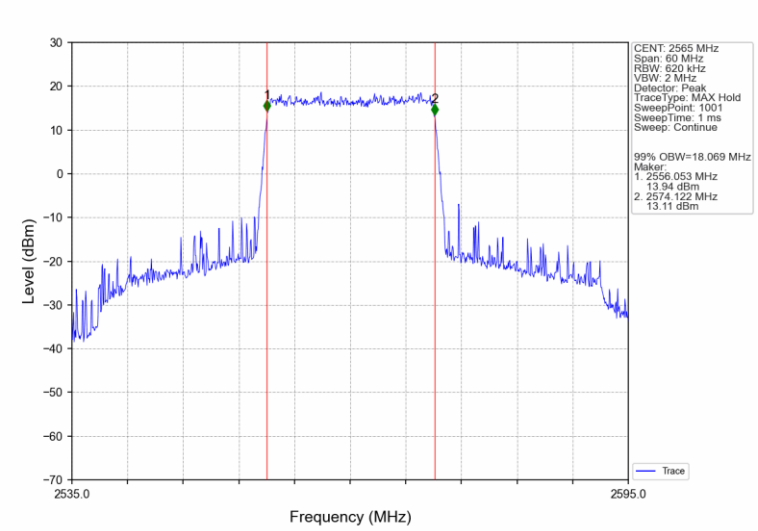
Band41_15MHz_16QAM_MCH_2605MHz_RB_75_0_NTNV



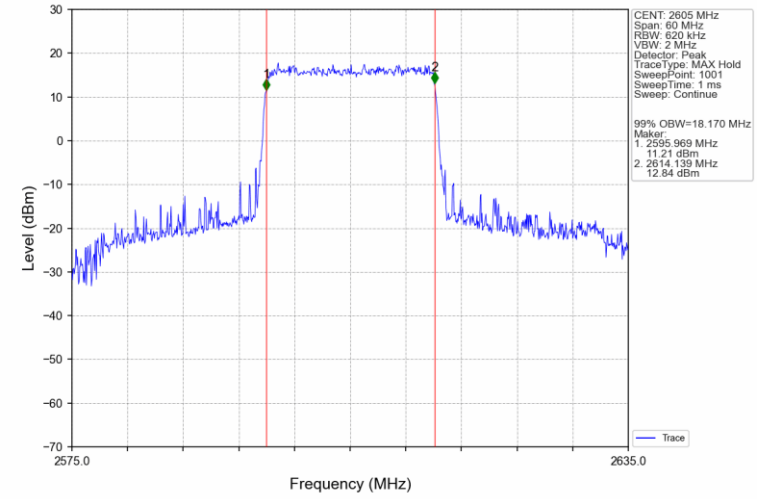
Band41_15MHz_16QAM_HCH_2647.5MHz_RB_75_0_NTNV



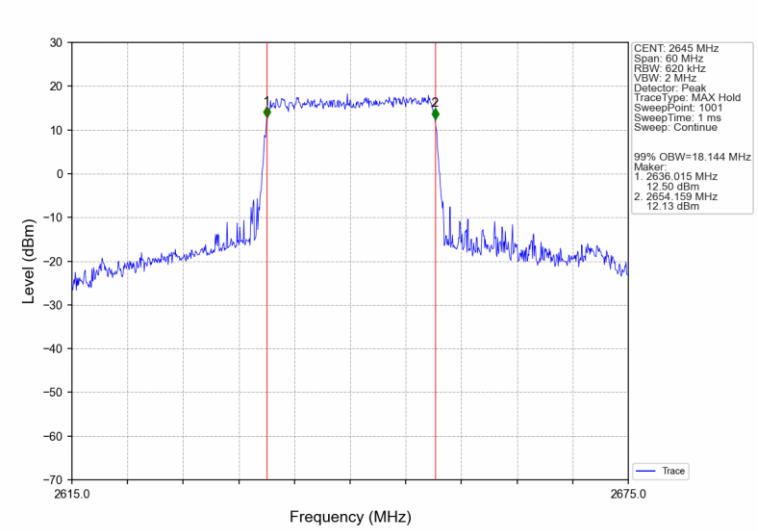
Band41_20MHz_QPSK_LCH_2565MHz_RB_100_0_NTNV



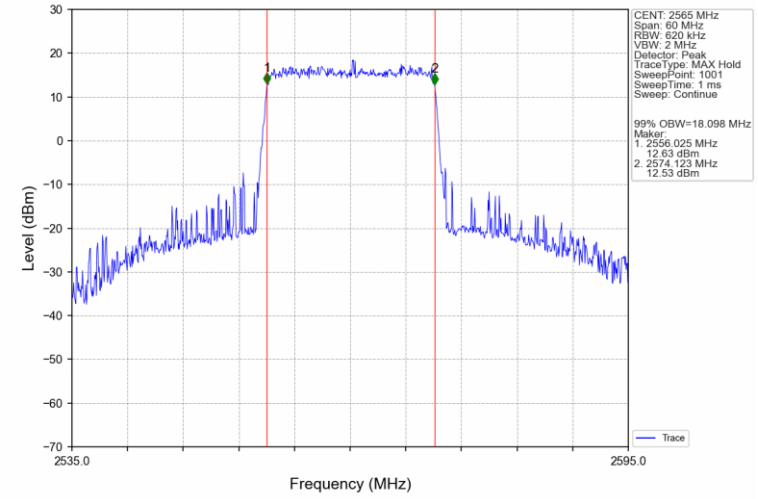
Band41_20MHz_QPSK_MCH_2605MHz_RB_100_0_NTNV



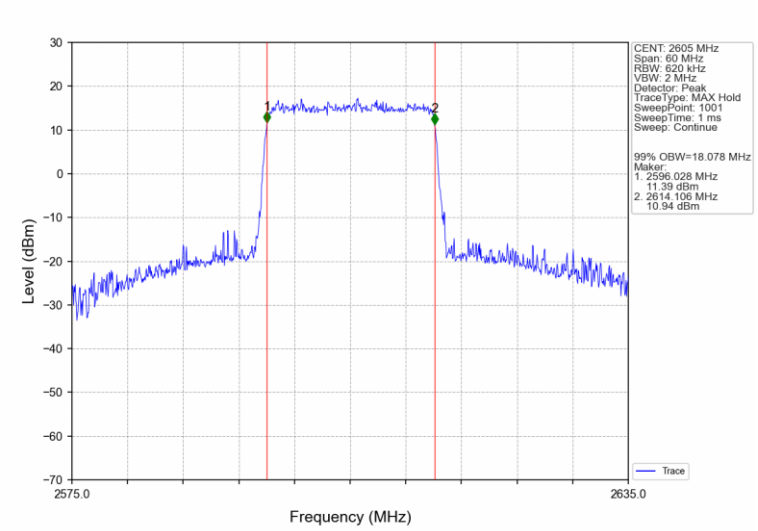
Band41_20MHz_QPSK_HCH_2645MHz_RB_100_0_NTNV



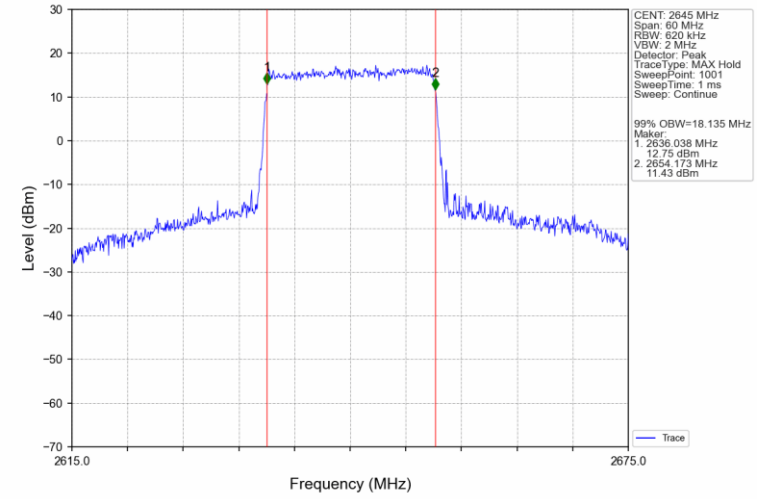
Band41_20MHz_16QAM_LCH_2565MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_MCH_2605MHz_RB_100_0_NTNV

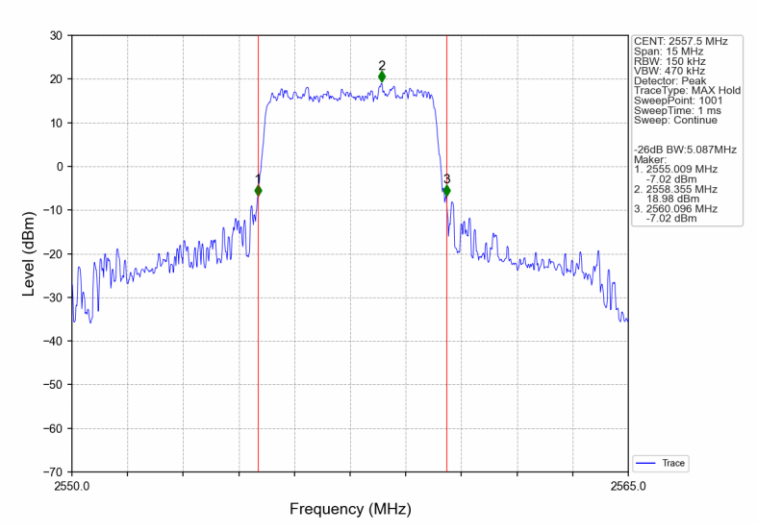


Band41_20MHz_16QAM_HCH_2645MHz_RB_100_0_NTNV

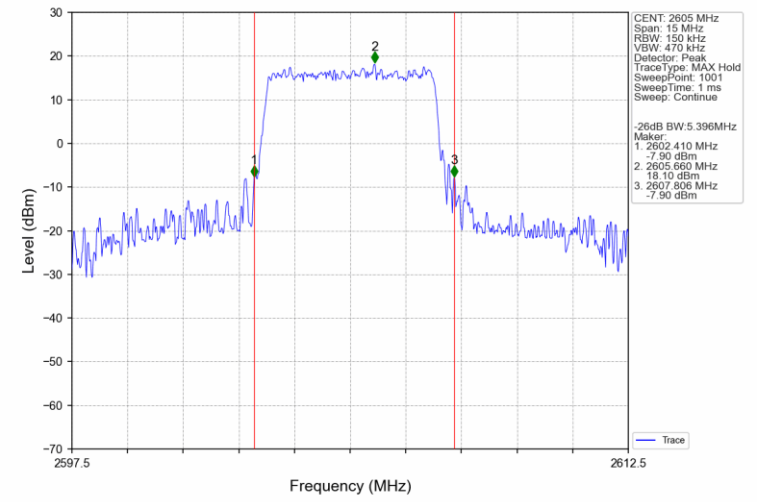


4.2.2 Band41_XDB

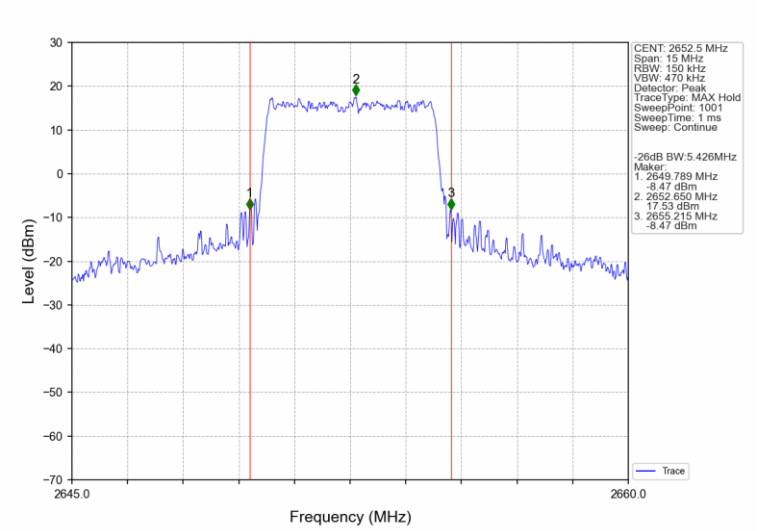
Band41_5MHz_QPSK_LCH_2557.5MHz_RB_25_0_NTNV



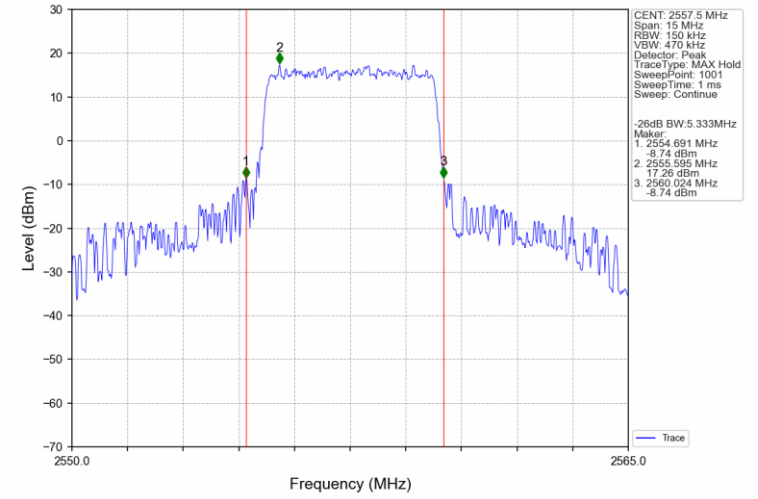
Band41_5MHz_QPSK_MCH_2605MHz_RB_25_0_NTNV



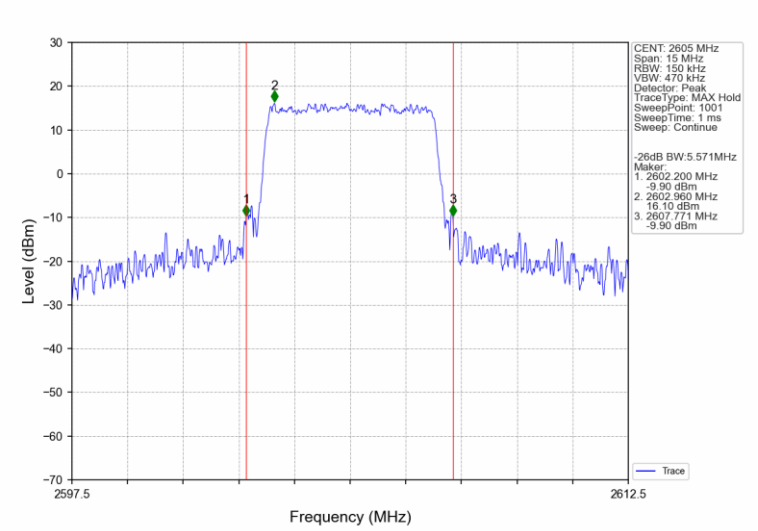
Band41_5MHz_QPSK_HCH_2652.5MHz_RB_25_0_NTNV



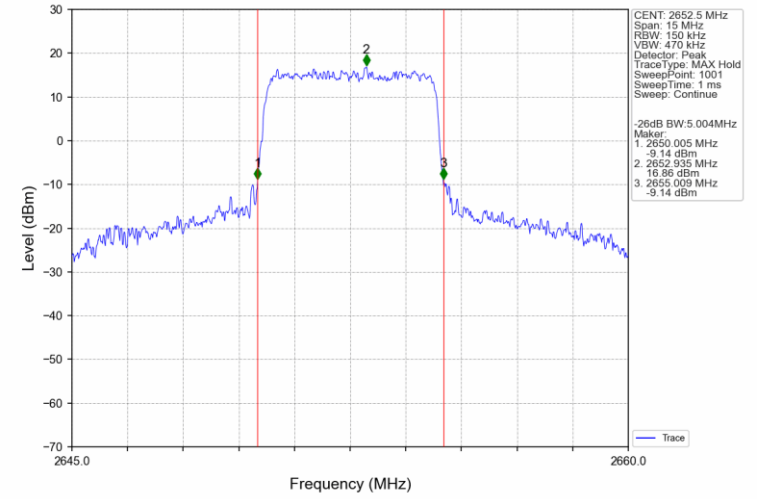
Band41_5MHz_16QAM_LCH_2557.5MHz_RB_25_0_NTNV



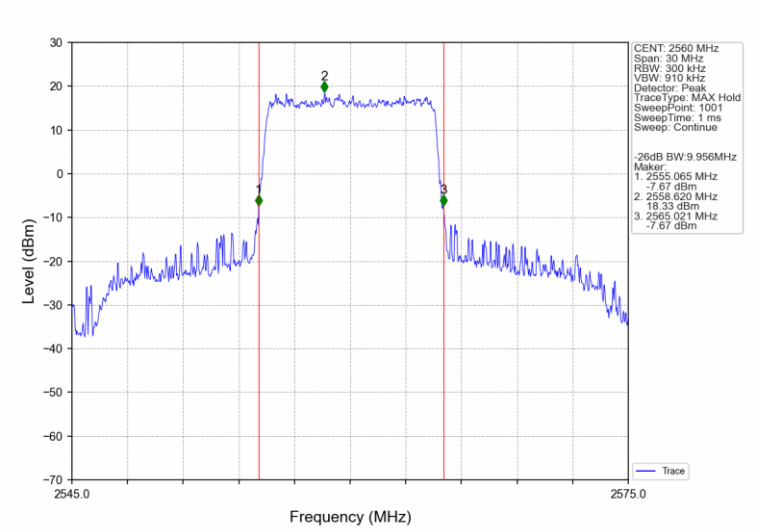
Band41_5MHz_16QAM_MCH_2605MHz_RB_25_0_NTNV



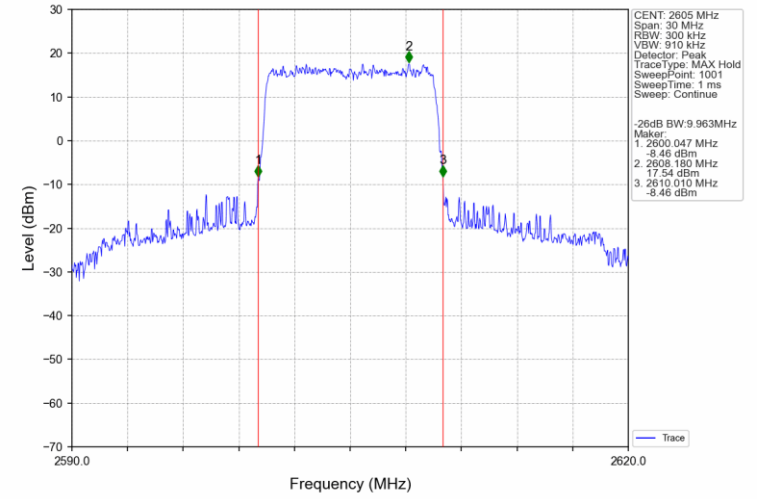
Band41_5MHz_16QAM_HCH_2652.5MHz_RB_25_0_NTNV



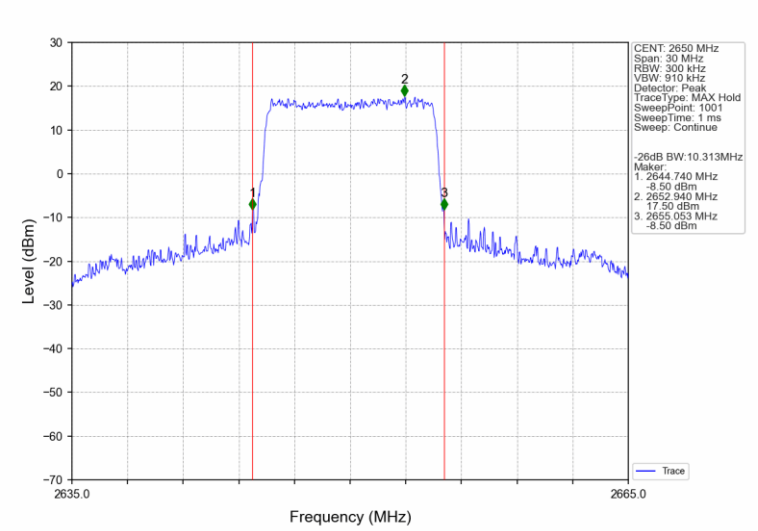
Band41_10MHz_QPSK_LCH_2560MHz_RB_50_0_NTNV



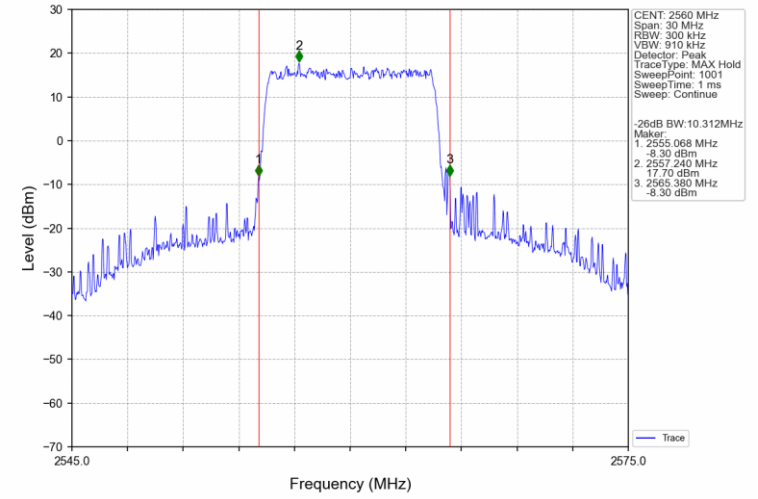
Band41_10MHz_QPSK_MCH_2605MHz_RB_50_0_NTNV



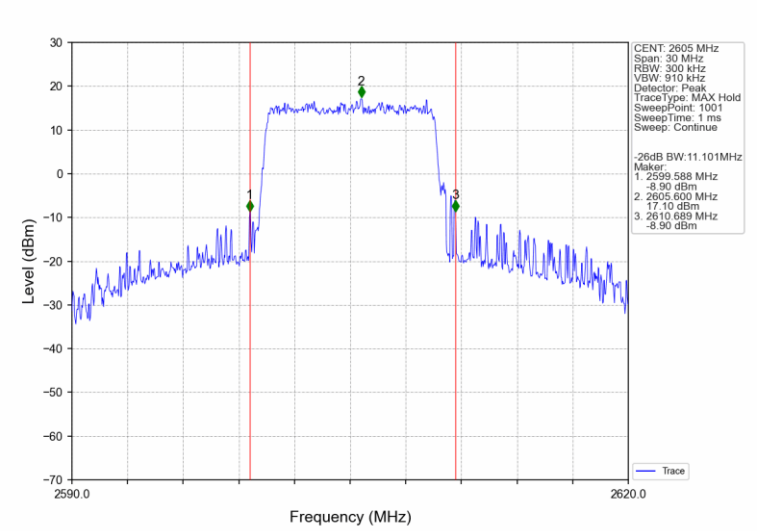
Band41_10MHz_QPSK_HCH_2650MHz_RB_50_0_NTNV



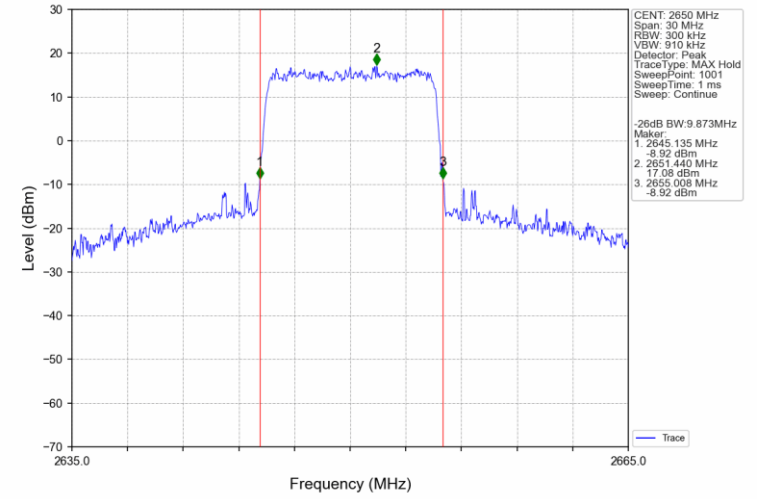
Band41_10MHz_16QAM_LCH_2560MHz_RB_50_0_NTNV



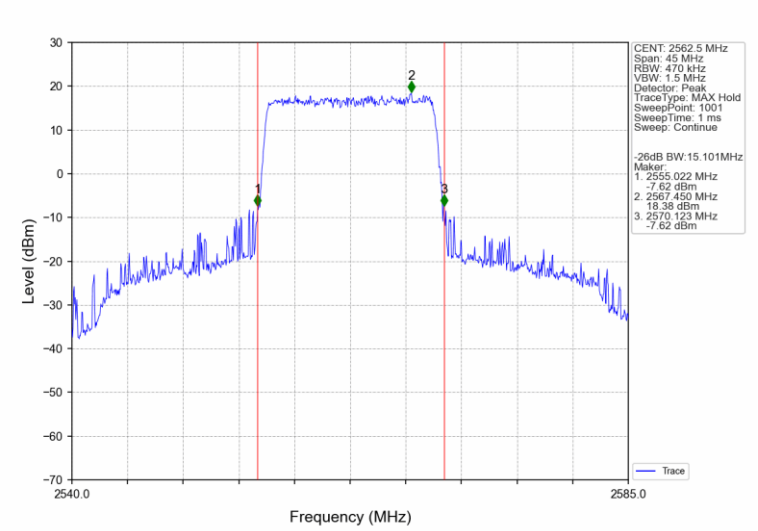
Band41_10MHz_16QAM_MCH_2605MHz_RB_50_0_NTNV



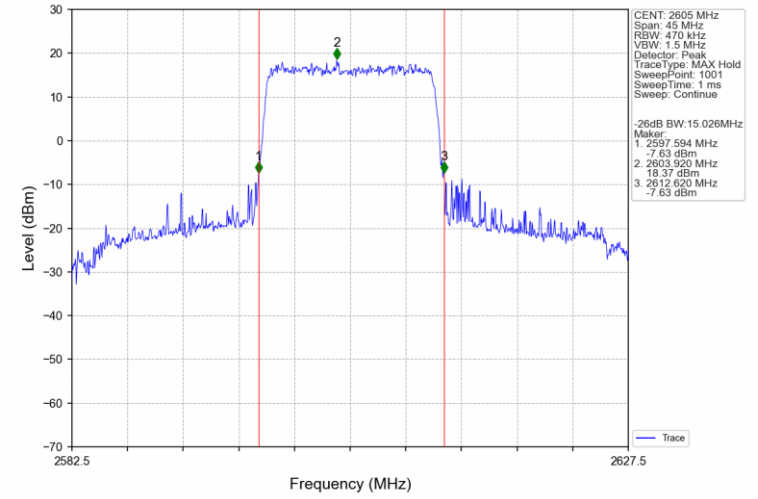
Band41_10MHz_16QAM_HCH_2650MHz_RB_50_0_NTNV



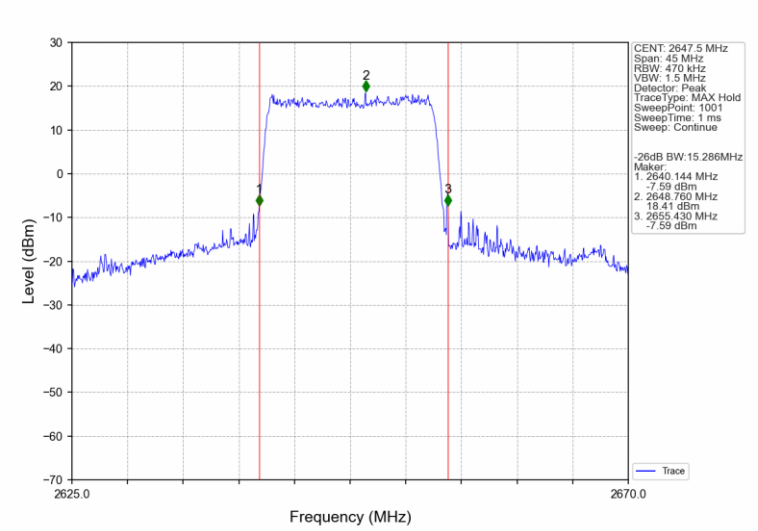
Band41_15MHz_QPSK_LCH_2562.5MHz_RB_75_0_NTNV



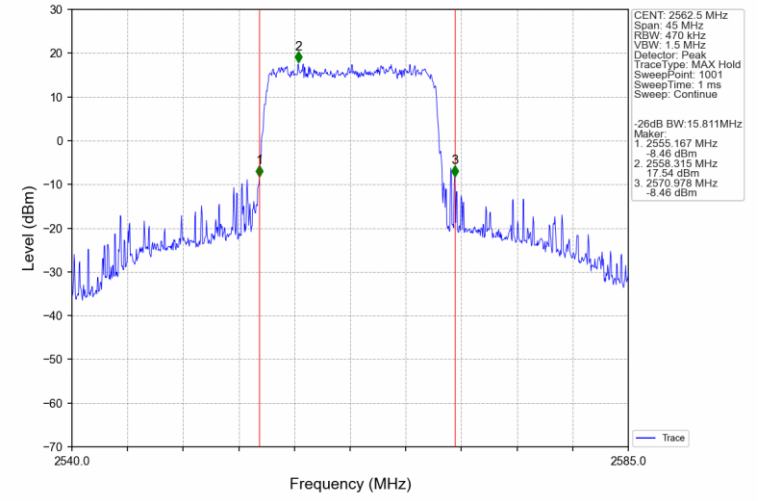
Band41_15MHz_QPSK_MCH_2605MHz_RB_75_0_NTNV



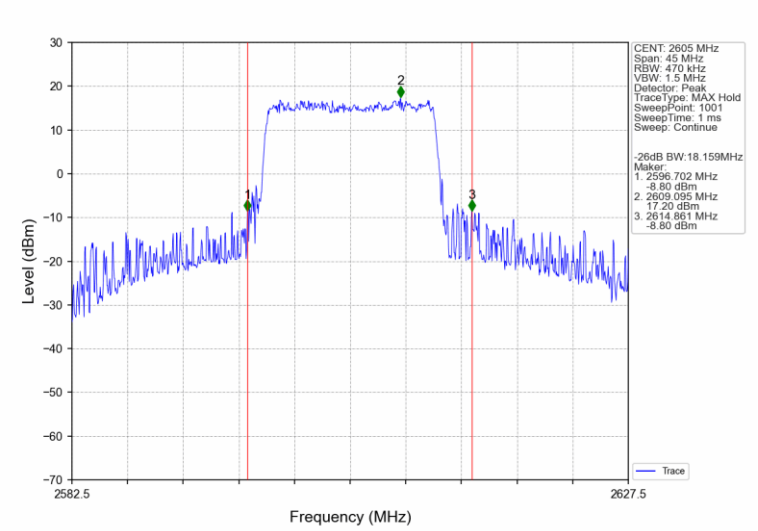
Band41_15MHz_QPSK_HCH_2647.5MHz_RB_75_0_NTNV



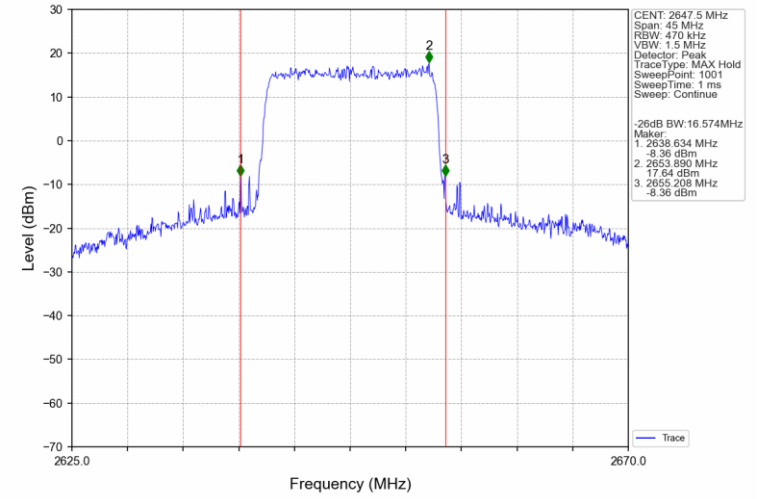
Band41_15MHz_16QAM_LCH_2562.5MHz_RB_75_0_NTNV



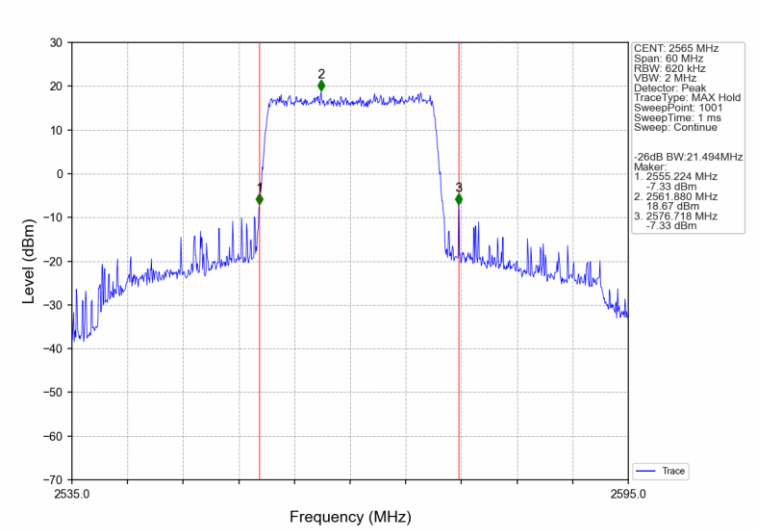
Band41_15MHz_16QAM_MCH_2605MHz_RB_75_0_NTNV



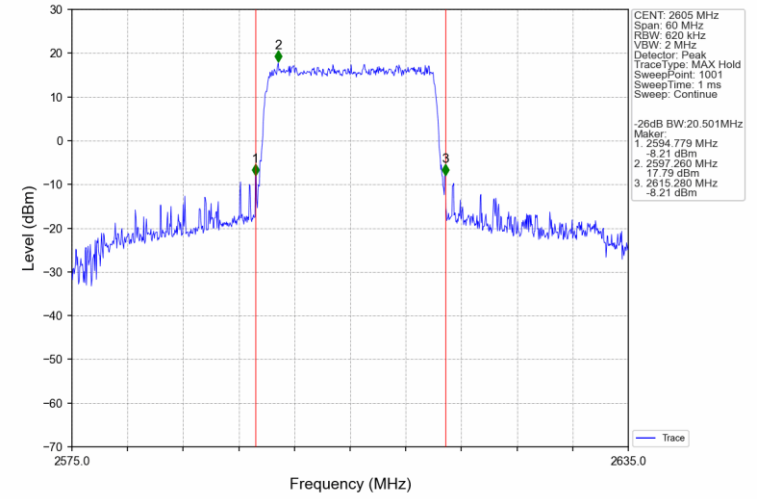
Band41_15MHz_16QAM_HCH_2647.5MHz_RB_75_0_NTNV



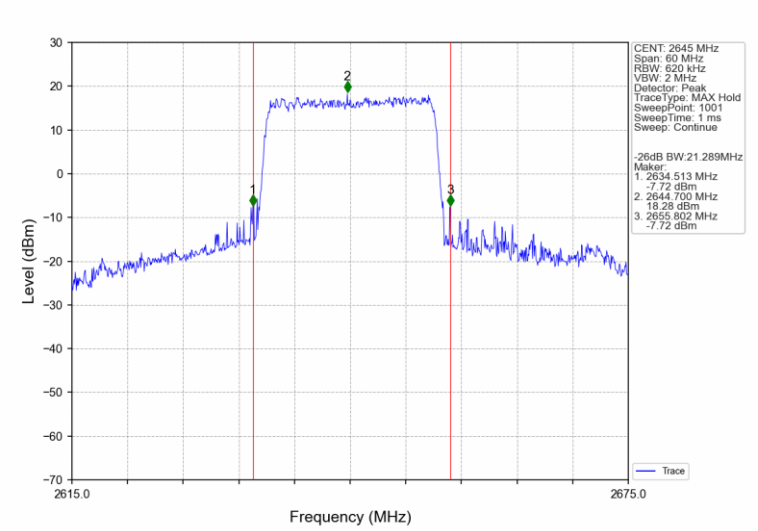
Band41_20MHz_QPSK_LCH_2565MHz_RB_100_0_NTNV



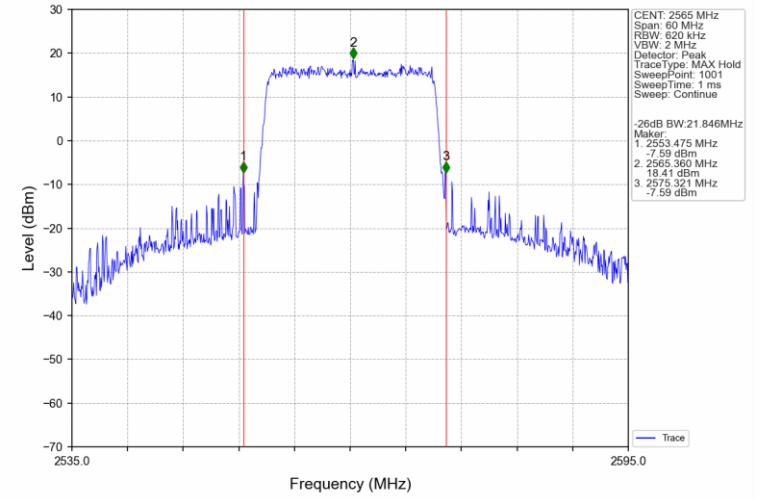
Band41_20MHz_QPSK_MCH_2605MHz_RB_100_0_NTNV



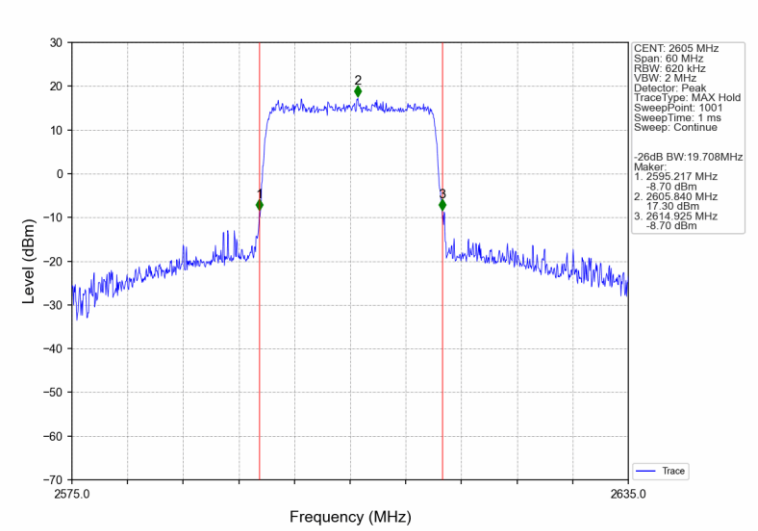
Band41_20MHz_QPSK_HCH_2645MHz_RB_100_0_NTNV



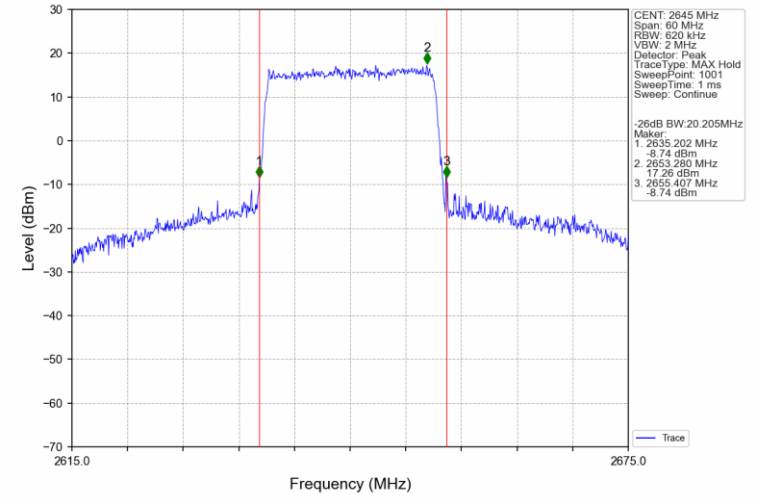
Band41_20MHz_16QAM_LCH_2565MHz_RB_100_0_NTNV



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	7.47	<=13	Pass
	2605	25	0	7.54	<=13	Pass
	2652.5	25	0	8.02	<=13	Pass
16QAM	2557.5	25	0	8.07	<=13	Pass
	2605	25	0	8.22	<=13	Pass
	2652.5	25	0	8.67	<=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	7.47	<=13	Pass
	2605	50	0	7.65	<=13	Pass
	2650	50	0	7.91	<=13	Pass
16QAM	2560	50	0	8.05	<=13	Pass
	2605	50	0	8.18	<=13	Pass
	2650	50	0	8.61	<=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	7.20	<=13	Pass
	2605	75	0	7.17	<=13	Pass
	2647.5	75	0	7.54	<=13	Pass
16QAM	2562.5	75	0	8.06	<=13	Pass
	2605	75	0	8.00	<=13	Pass
	2647.5	75	0	8.32	<=13	Pass

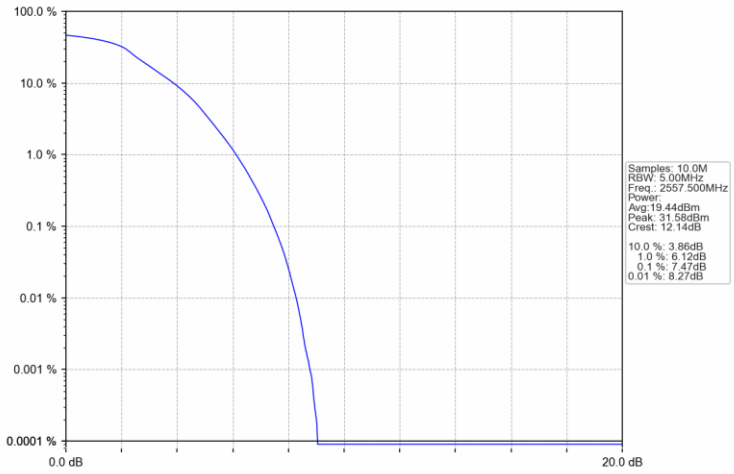
5.1.4 B41_20MHz

Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2565	100	0	7.61	<=13	Pass
	2605	100	0	7.75	<=13	Pass
	2645	100	0	7.71	<=13	Pass
16QAM	2565	100	0	8.49	<=13	Pass
	2605	100	0	8.64	<=13	Pass
	2645	100	0	8.55	<=13	Pass

5.2 Test Graph

5.2.1 B41_5MHz

Band41_5MHz_QPSK_LCH_2557.5MHz_RB_25_0_NTNV



Band41_5MHz_QPSK_MCH_2605MHz_RB_25_0_NTNV