

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	22.04	2.56	24.60	<=33.01	Pass
			13	22.30	2.56	24.86	<=33.01	Pass
			24	22.09	2.56	24.65	<=33.01	Pass
		12	0	21.11	2.56	23.67	<=33.01	Pass
			6	21.24	2.56	23.80	<=33.01	Pass
			13	21.16	2.56	23.72	<=33.01	Pass
		25	0	21.19	2.56	23.75	<=33.01	Pass
	2605	1	0	22.53	2.56	25.09	<=33.01	Pass
			13	22.68	2.56	25.24	<=33.01	Pass
			24	22.53	2.56	25.09	<=33.01	Pass
		12	0	21.56	2.56	24.12	<=33.01	Pass
			6	21.66	2.56	24.22	<=33.01	Pass
			13	21.58	2.56	24.14	<=33.01	Pass
		25	0	21.57	2.56	24.13	<=33.01	Pass
	2652.5	1	0	22.42	2.56	24.98	<=33.01	Pass
			13	22.67	2.56	25.23	<=33.01	Pass
			24	22.43	2.56	24.99	<=33.01	Pass
		12	0	21.60	2.56	24.16	<=33.01	Pass
			6	21.67	2.56	24.23	<=33.01	Pass
			13	21.63	2.56	24.19	<=33.01	Pass
		25	0	21.62	2.56	24.18	<=33.01	Pass
16QAM	2557.5	1	0	21.09	2.56	23.65	<=33.01	Pass
			13	21.21	2.56	23.77	<=33.01	Pass
			24	21.11	2.56	23.67	<=33.01	Pass
		12	0	20.04	2.56	22.60	<=33.01	Pass
			6	20.16	2.56	22.72	<=33.01	Pass
			13	20.55	2.56	23.11	<=33.01	Pass
		25	0	20.61	2.56	23.17	<=33.01	Pass
	2605	1	0	21.72	2.56	24.28	<=33.01	Pass
			13	21.67	2.56	24.23	<=33.01	Pass
			24	21.45	2.56	24.01	<=33.01	Pass
		12	0	20.43	2.56	22.99	<=33.01	Pass
			6	20.52	2.56	23.08	<=33.01	Pass
			13	20.52	2.56	23.08	<=33.01	Pass
		25	0	20.50	2.56	23.06	<=33.01	Pass
	2652.5	1	0	21.55	2.56	24.11	<=33.01	Pass
			13	21.88	2.56	24.44	<=33.01	Pass
			24	21.52	2.56	24.08	<=33.01	Pass
		12	0	20.53	2.56	23.09	<=33.01	Pass
			6	20.63	2.56	23.19	<=33.01	Pass
			13	20.54	2.56	23.10	<=33.01	Pass
		25	0	20.61	2.56	23.17	<=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	22.54	2.56	25.10	<=33.01	Pass
			25	22.92	2.56	25.48	<=33.01	Pass
			49	22.69	2.56	25.25	<=33.01	Pass
		25	0	21.66	2.56	24.22	<=33.01	Pass
			13	21.64	2.56	24.20	<=33.01	Pass
			25	21.69	2.56	24.25	<=33.01	Pass
		50	0	21.64	2.56	24.20	<=33.01	Pass
			0	22.52	2.56	25.08	<=33.01	Pass
			25	22.74	2.56	25.30	<=33.01	Pass
	2605	1	0	22.56	2.56	25.12	<=33.01	Pass
			25	21.58	2.56	24.14	<=33.01	Pass
			49	21.60	2.56	24.16	<=33.01	Pass
		25	0	21.60	2.56	24.16	<=33.01	Pass
			13	21.60	2.56	24.16	<=33.01	Pass
			25	21.60	2.56	24.16	<=33.01	Pass
		50	0	21.59	2.56	24.15	<=33.01	Pass
			0	22.57	2.56	25.13	<=33.01	Pass
			25	22.76	2.56	25.32	<=33.01	Pass
	2650	1	0	22.58	2.56	25.14	<=33.01	Pass
			25	21.54	2.56	24.10	<=33.01	Pass
			49	21.64	2.56	24.20	<=33.01	Pass
		25	0	21.65	2.56	24.21	<=33.01	Pass
			13	21.63	2.56	24.19	<=33.01	Pass
			25	21.63	2.56	24.19	<=33.01	Pass
		50	0	21.71	2.56	24.27	<=33.01	Pass
			25	21.81	2.56	24.37	<=33.01	Pass
			49	21.78	2.56	24.34	<=33.01	Pass
16QAM	2560	1	0	20.62	2.56	23.18	<=33.01	Pass
			25	20.61	2.56	23.17	<=33.01	Pass
			49	20.67	2.56	23.23	<=33.01	Pass
		25	0	20.63	2.56	23.19	<=33.01	Pass
			25	21.31	2.56	23.87	<=33.01	Pass
			49	21.56	2.56	24.12	<=33.01	Pass
		50	0	21.28	2.56	23.84	<=33.01	Pass
			25	20.52	2.56	23.08	<=33.01	Pass
			49	20.61	2.56	23.17	<=33.01	Pass
	2605	1	0	20.55	2.56	23.11	<=33.01	Pass
			25	20.55	2.56	23.11	<=33.01	Pass
			49	20.52	2.56	23.08	<=33.01	Pass
		25	0	21.58	2.56	24.14	<=33.01	Pass
			25	21.53	2.56	24.09	<=33.01	Pass
			49	21.62	2.56	24.18	<=33.01	Pass
		50	0	20.59	2.56	23.15	<=33.01	Pass
			25	20.65	2.56	23.21	<=33.01	Pass
			49	20.61	2.56	23.17	<=33.01	Pass
	2650	1	0	20.61	2.56	23.17	<=33.01	Pass
			25	20.61	2.56	23.17	<=33.01	Pass
			49	20.61	2.56	23.17	<=33.01	Pass
		25	0	20.64	2.56	23.20	<=33.01	Pass
			25	20.64	2.56	23.20	<=33.01	Pass
			49	20.64	2.56	23.20	<=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	22.54	2.56	25.10	<=33.01	Pass
			38	22.76	2.56	25.32	<=33.01	Pass
			74	22.51	2.56	25.07	<=33.01	Pass
		36	0	21.67	2.56	24.23	<=33.01	Pass
			18	21.75	2.56	24.31	<=33.01	Pass
			39	21.74	2.56	24.30	<=33.01	Pass
		75	0	21.68	2.56	24.24	<=33.01	Pass
	2605	1	0	22.43	2.56	24.99	<=33.01	Pass
			38	22.63	2.56	25.19	<=33.01	Pass
			74	22.48	2.56	25.04	<=33.01	Pass
		36	0	21.58	2.56	24.14	<=33.01	Pass
			18	21.61	2.56	24.17	<=33.01	Pass
			39	21.58	2.56	24.14	<=33.01	Pass
		75	0	21.60	2.56	24.16	<=33.01	Pass
	2647.5	1	0	22.54	2.56	25.10	<=33.01	Pass
			38	22.67	2.56	25.23	<=33.01	Pass
			74	22.50	2.56	25.06	<=33.01	Pass
		36	0	21.60	2.56	24.16	<=33.01	Pass
			18	21.65	2.56	24.21	<=33.01	Pass
			39	21.66	2.56	24.22	<=33.01	Pass
		75	0	21.68	2.56	24.24	<=33.01	Pass
16QAM	2562.5	1	0	21.21	2.56	23.77	<=33.01	Pass
			38	21.71	2.56	24.27	<=33.01	Pass
			74	21.44	2.56	24.00	<=33.01	Pass
		36	0	20.60	2.56	23.16	<=33.01	Pass
			18	20.64	2.56	23.20	<=33.01	Pass
			39	20.66	2.56	23.22	<=33.01	Pass
		75	0	20.65	2.56	23.21	<=33.01	Pass
	2605	1	0	21.36	2.56	23.92	<=33.01	Pass
			38	21.35	2.56	23.91	<=33.01	Pass
			74	21.36	2.56	23.92	<=33.01	Pass
		36	0	20.50	2.56	23.06	<=33.01	Pass
			18	20.54	2.56	23.10	<=33.01	Pass
			39	20.56	2.56	23.12	<=33.01	Pass
		75	0	20.50	2.56	23.06	<=33.01	Pass
	2647.5	1	0	21.44	2.56	24.00	<=33.01	Pass
			38	21.56	2.56	24.12	<=33.01	Pass
			74	21.52	2.56	24.08	<=33.01	Pass
		36	0	20.51	2.56	23.07	<=33.01	Pass
			18	20.59	2.56	23.15	<=33.01	Pass
			39	20.57	2.56	23.13	<=33.01	Pass
		75	0	20.65	2.56	23.21	<=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	22.28	2.56	24.84	<=33.01	Pass
			50	22.85	2.56	25.41	<=33.01	Pass
			99	22.38	2.56	24.94	<=33.01	Pass
		50	0	21.55	2.56	24.11	<=33.01	Pass
			25	21.60	2.56	24.16	<=33.01	Pass
			50	21.61	2.56	24.17	<=33.01	Pass
		100	0	21.57	2.56	24.13	<=33.01	Pass
			0	22.31	2.56	24.87	<=33.01	Pass
			50	22.58	2.56	25.14	<=33.01	Pass
	2605	1	99	22.34	2.56	24.90	<=33.01	Pass
			0	21.47	2.56	24.03	<=33.01	Pass
			25	21.59	2.56	24.15	<=33.01	Pass
		50	50	21.58	2.56	24.14	<=33.01	Pass
			0	21.50	2.56	24.06	<=33.01	Pass
			0	22.40	2.56	24.96	<=33.01	Pass
		100	50	22.72	2.56	25.28	<=33.01	Pass
			99	22.41	2.56	24.97	<=33.01	Pass
			0	21.49	2.56	24.05	<=33.01	Pass
	2645	50	25	21.56	2.56	24.12	<=33.01	Pass
			50	21.63	2.56	24.19	<=33.01	Pass
			0	21.54	2.56	24.10	<=33.01	Pass
16QAM	2565	1	0	21.35	2.56	23.91	<=33.01	Pass
			50	21.89	2.56	24.45	<=33.01	Pass
			99	21.42	2.56	23.98	<=33.01	Pass
		50	0	20.55	2.56	23.11	<=33.01	Pass
			25	20.63	2.56	23.19	<=33.01	Pass
			50	20.60	2.56	23.16	<=33.01	Pass
		100	0	20.55	2.56	23.11	<=33.01	Pass
			0	21.43	2.56	23.99	<=33.01	Pass
			50	21.37	2.56	23.93	<=33.01	Pass
	2605	1	99	21.01	2.56	23.57	<=33.01	Pass
			0	20.46	2.56	23.02	<=33.01	Pass
			25	20.51	2.56	23.07	<=33.01	Pass
		50	50	20.57	2.56	23.13	<=33.01	Pass
			0	20.49	2.56	23.05	<=33.01	Pass
			0	21.33	2.56	23.89	<=33.01	Pass
		100	50	21.77	2.56	24.33	<=33.01	Pass
			99	21.41	2.56	23.97	<=33.01	Pass
			0	20.47	2.56	23.03	<=33.01	Pass
	2645	50	25	20.62	2.56	23.18	<=33.01	Pass
			50	20.62	2.56	23.18	<=33.01	Pass
			0	20.52	2.56	23.08	<=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	3.23	-1.030	-0.0004	-2.5 to 2.5	Pass
					3.80	0.029	0.0000	-2.5 to 2.5	Pass
					4.37	-9.770	-0.0038	-2.5 to 2.5	Pass
				-30	3.80	-1.702	-0.0007	-2.5 to 2.5	Pass
				-20	3.80	1.273	0.0005	-2.5 to 2.5	Pass
				-10	3.80	-4.306	-0.0017	-2.5 to 2.5	Pass
				0	3.80	-6.881	-0.0027	-2.5 to 2.5	Pass
				10	3.80	-12.002	-0.0047	-2.5 to 2.5	Pass
				30	3.80	-8.783	-0.0034	-2.5 to 2.5	Pass
				40	3.80	-12.131	-0.0047	-2.5 to 2.5	Pass
				50	3.80	-2.103	-0.0008	-2.5 to 2.5	Pass
	2605	25	0	20	3.23	-10.486	-0.0040	-2.5 to 2.5	Pass
					3.80	-15.864	-0.0061	-2.5 to 2.5	Pass
					4.37	-11.573	-0.0044	-2.5 to 2.5	Pass
				-30	3.80	0.229	0.0001	-2.5 to 2.5	Pass
				-20	3.80	1.702	0.0007	-2.5 to 2.5	Pass
				-10	3.80	-3.304	-0.0013	-2.5 to 2.5	Pass
				0	3.80	-9.341	-0.0036	-2.5 to 2.5	Pass
				10	3.80	-6.909	-0.0027	-2.5 to 2.5	Pass
				30	3.80	-12.960	-0.0050	-2.5 to 2.5	Pass
				40	3.80	9.627	0.0037	-2.5 to 2.5	Pass
				50	3.80	6.294	0.0024	-2.5 to 2.5	Pass
	2652.5	25	0	20	3.23	14.248	0.0054	-2.5 to 2.5	Pass
					3.80	21.958	0.0083	-2.5 to 2.5	Pass
					4.37	15.922	0.0060	-2.5 to 2.5	Pass
				-30	3.80	11.988	0.0045	-2.5 to 2.5	Pass
				-20	3.80	12.360	0.0047	-2.5 to 2.5	Pass
				-10	3.80	9.570	0.0036	-2.5 to 2.5	Pass
				0	3.80	11.244	0.0042	-2.5 to 2.5	Pass
				10	3.80	21.701	0.0082	-2.5 to 2.5	Pass
				30	3.80	32.930	0.0124	-2.5 to 2.5	Pass
				40	3.80	23.432	0.0088	-2.5 to 2.5	Pass
				50	3.80	28.653	0.0108	-2.5 to 2.5	Pass
16QAM	2557.5	25	0	20	3.23	-2.060	-0.0008	-2.5 to 2.5	Pass
					3.80	3.734	0.0015	-2.5 to 2.5	Pass
					4.37	-2.689	-0.0011	-2.5 to 2.5	Pass
				-30	3.80	-0.229	-0.0001	-2.5 to 2.5	Pass
				-20	3.80	-54.560	-0.0213	-2.5 to 2.5	Pass
				-10	3.80	-11.573	-0.0045	-2.5 to 2.5	Pass
				0	3.80	-3.047	-0.0012	-2.5 to 2.5	Pass
				10	3.80	-8.426	-0.0033	-2.5 to 2.5	Pass
				30	3.80	-4.435	-0.0017	-2.5 to 2.5	Pass
				40	3.80	-2.203	-0.0009	-2.5 to 2.5	Pass
				50	3.80	0.930	0.0004	-2.5 to 2.5	Pass
	2605	25	0	20	3.23	3.862	0.0015	-2.5 to 2.5	Pass
					3.80	-9.913	-0.0038	-2.5 to 2.5	Pass
					4.37	-5.136	-0.0020	-2.5 to 2.5	Pass
				-30	3.80	-4.892	-0.0019	-2.5 to 2.5	Pass
				-20	3.80	6.094	0.0023	-2.5 to 2.5	Pass
				-10	3.80	-8.769	-0.0034	-2.5 to 2.5	Pass

				0	3.80	-8.883	-0.0034	-2.5 to 2.5	Pass
				10	3.80	-8.168	-0.0031	-2.5 to 2.5	Pass
				30	3.80	-6.938	-0.0027	-2.5 to 2.5	Pass
				40	3.80	-6.037	-0.0023	-2.5 to 2.5	Pass
				50	3.80	-13.676	-0.0052	-2.5 to 2.5	Pass
	2652.5	25	0	20	3.23	10.228	0.0039	-2.5 to 2.5	Pass
					3.80	30.313	0.0114	-2.5 to 2.5	Pass
					4.37	7.725	0.0029	-2.5 to 2.5	Pass
				-30	3.80	2.975	0.0011	-2.5 to 2.5	Pass
				-20	3.80	4.978	0.0019	-2.5 to 2.5	Pass
				-10	3.80	8.769	0.0033	-2.5 to 2.5	Pass
				0	3.80	6.967	0.0026	-2.5 to 2.5	Pass
				10	3.80	9.184	0.0035	-2.5 to 2.5	Pass
				30	3.80	11.945	0.0045	-2.5 to 2.5	Pass
				40	3.80	13.690	0.0052	-2.5 to 2.5	Pass
				50	3.80	1.101	0.0004	-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	3.23	-13.003	-0.0051	-2.5 to 2.5	Pass
					3.80	-1.988	-0.0008	-2.5 to 2.5	Pass
					4.37	-10.200	-0.0040	-2.5 to 2.5	Pass
				-30	3.80	-13.533	-0.0053	-2.5 to 2.5	Pass
				-20	3.80	-1.345	-0.0005	-2.5 to 2.5	Pass
				-10	3.80	-13.204	-0.0052	-2.5 to 2.5	Pass
				0	3.80	-8.426	-0.0033	-2.5 to 2.5	Pass
				10	3.80	-13.032	-0.0051	-2.5 to 2.5	Pass
				30	3.80	-5.078	-0.0020	-2.5 to 2.5	Pass
				40	3.80	-9.041	-0.0035	-2.5 to 2.5	Pass
				50	3.80	-3.333	-0.0013	-2.5 to 2.5	Pass
	2605	50	0	20	3.23	-1.831	-0.0007	-2.5 to 2.5	Pass
					3.80	-10.586	-0.0041	-2.5 to 2.5	Pass
					4.37	-8.926	-0.0034	-2.5 to 2.5	Pass
				-30	3.80	-20.514	-0.0079	-2.5 to 2.5	Pass
				-20	3.80	-11.816	-0.0045	-2.5 to 2.5	Pass
				-10	3.80	-7.396	-0.0028	-2.5 to 2.5	Pass
				0	3.80	-9.828	-0.0038	-2.5 to 2.5	Pass
				10	3.80	-6.137	-0.0024	-2.5 to 2.5	Pass
				30	3.80	-21.315	-0.0082	-2.5 to 2.5	Pass
				40	3.80	-9.770	-0.0038	-2.5 to 2.5	Pass
				50	3.80	-15.621	-0.0060	-2.5 to 2.5	Pass
	2650	50	0	20	3.23	-7.911	-0.0030	-2.5 to 2.5	Pass
					3.80	-18.210	-0.0069	-2.5 to 2.5	Pass
					4.37	2.432	0.0009	-2.5 to 2.5	Pass
				-30	3.80	-10.529	-0.0040	-2.5 to 2.5	Pass
				-20	3.80	-4.206	-0.0016	-2.5 to 2.5	Pass
				-10	3.80	-7.668	-0.0029	-2.5 to 2.5	Pass
				0	3.80	-0.129	0.0000	-2.5 to 2.5	Pass
				10	3.80	-16.379	-0.0062	-2.5 to 2.5	Pass
				30	3.80	-6.037	-0.0023	-2.5 to 2.5	Pass
				40	3.80	-13.661	-0.0052	-2.5 to 2.5	Pass
16QAM	2560	50	0	20	3.23	-4.320	-0.0017	-2.5 to 2.5	Pass
					3.80	-0.601	-0.0002	-2.5 to 2.5	Pass
					4.37	-6.623	-0.0026	-2.5 to 2.5	Pass
				-30	3.80	-13.289	-0.0052	-2.5 to 2.5	Pass
				-20	3.80	-1.473	-0.0006	-2.5 to 2.5	Pass
				-10	3.80	-6.280	-0.0025	-2.5 to 2.5	Pass
				0	3.80	-11.830	-0.0046	-2.5 to 2.5	Pass
				10	3.80	2.503	0.0010	-2.5 to 2.5	Pass
				30	3.80	-7.439	-0.0029	-2.5 to 2.5	Pass
				40	3.80	0.358	0.0001	-2.5 to 2.5	Pass
				50	3.80	-1.216	-0.0005	-2.5 to 2.5	Pass
	2605	50	0	20	3.23	-7.067	-0.0027	-2.5 to 2.5	Pass
					3.80	-12.059	-0.0046	-2.5 to 2.5	Pass
					4.37	-2.131	-0.0008	-2.5 to 2.5	Pass
				-30	3.80	-13.747	-0.0053	-2.5 to 2.5	Pass
				-20	3.80	-3.247	-0.0012	-2.5 to 2.5	Pass
				-10	3.80	-5.479	-0.0021	-2.5 to 2.5	Pass
				0	3.80	-5.765	-0.0022	-2.5 to 2.5	Pass
				10	3.80	-9.041	-0.0035	-2.5 to 2.5	Pass
				30	3.80	-3.419	-0.0013	-2.5 to 2.5	Pass
				40	3.80	-7.911	-0.0030	-2.5 to 2.5	Pass
				50	3.80	-7.696	-0.0030	-2.5 to 2.5	Pass

	2650	50	0	20	3.23	-2.375	-0.0009	-2.5 to 2.5	Pass
					3.80	-9.327	-0.0035	-2.5 to 2.5	Pass
					4.37	-5.550	-0.0021	-2.5 to 2.5	Pass
				-30	3.80	-10.228	-0.0039	-2.5 to 2.5	Pass
				-20	3.80	-0.386	-0.0001	-2.5 to 2.5	Pass
				-10	3.80	-8.240	-0.0031	-2.5 to 2.5	Pass
				0	3.80	-9.613	-0.0036	-2.5 to 2.5	Pass
				10	3.80	-14.005	-0.0053	-2.5 to 2.5	Pass
				30	3.80	-9.456	-0.0036	-2.5 to 2.5	Pass
				40	3.80	-8.812	-0.0033	-2.5 to 2.5	Pass
				50	3.80	-4.749	-0.0018	-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	3.23	-11.673	-0.0046	-2.5 to 2.5	Pass
					3.80	-10.772	-0.0042	-2.5 to 2.5	Pass
					4.37	-10.500	-0.0041	-2.5 to 2.5	Pass
				-30	3.80	-10.457	-0.0041	-2.5 to 2.5	Pass
				-20	3.80	-5.579	-0.0022	-2.5 to 2.5	Pass
				-10	3.80	-4.835	-0.0019	-2.5 to 2.5	Pass
				0	3.80	-6.895	-0.0027	-2.5 to 2.5	Pass
				10	3.80	-10.228	-0.0040	-2.5 to 2.5	Pass
				30	3.80	-5.522	-0.0022	-2.5 to 2.5	Pass
				40	3.80	-13.218	-0.0052	-2.5 to 2.5	Pass
				50	3.80	-5.622	-0.0022	-2.5 to 2.5	Pass
	2605	75	0	20	3.23	-5.250	-0.0020	-2.5 to 2.5	Pass
					3.80	-5.336	-0.0020	-2.5 to 2.5	Pass
					4.37	-3.691	-0.0014	-2.5 to 2.5	Pass
				-30	3.80	-18.711	-0.0072	-2.5 to 2.5	Pass
				-20	3.80	-15.006	-0.0058	-2.5 to 2.5	Pass
				-10	3.80	-8.154	-0.0031	-2.5 to 2.5	Pass
				0	3.80	-3.133	-0.0012	-2.5 to 2.5	Pass
				10	3.80	-7.954	-0.0031	-2.5 to 2.5	Pass
				30	3.80	-10.214	-0.0039	-2.5 to 2.5	Pass
				40	3.80	-2.303	-0.0009	-2.5 to 2.5	Pass
				50	3.80	-4.334	-0.0017	-2.5 to 2.5	Pass
	2647.5	75	0	20	3.23	-6.895	-0.0026	-2.5 to 2.5	Pass
					3.80	-12.288	-0.0046	-2.5 to 2.5	Pass
					4.37	-19.383	-0.0073	-2.5 to 2.5	Pass
				-30	3.80	-13.947	-0.0053	-2.5 to 2.5	Pass
				-20	3.80	-12.088	-0.0046	-2.5 to 2.5	Pass
				-10	3.80	-17.452	-0.0066	-2.5 to 2.5	Pass
				0	3.80	-12.860	-0.0049	-2.5 to 2.5	Pass
				10	3.80	-9.899	-0.0037	-2.5 to 2.5	Pass
				30	3.80	-13.332	-0.0050	-2.5 to 2.5	Pass
				40	3.80	-10.057	-0.0038	-2.5 to 2.5	Pass
				50	3.80	-12.574	-0.0047	-2.5 to 2.5	Pass
16QAM	2562.5	75	0	20	3.23	-5.064	-0.0020	-2.5 to 2.5	Pass
					3.80	-8.254	-0.0032	-2.5 to 2.5	Pass
					4.37	-10.514	-0.0041	-2.5 to 2.5	Pass
				-30	3.80	-4.077	-0.0016	-2.5 to 2.5	Pass
				-20	3.80	-5.422	-0.0021	-2.5 to 2.5	Pass
				-10	3.80	-11.401	-0.0044	-2.5 to 2.5	Pass
				0	3.80	-13.790	-0.0054	-2.5 to 2.5	Pass
				10	3.80	-10.414	-0.0041	-2.5 to 2.5	Pass
				30	3.80	-9.041	-0.0035	-2.5 to 2.5	Pass
				40	3.80	-16.966	-0.0066	-2.5 to 2.5	Pass
				50	3.80	-16.007	-0.0062	-2.5 to 2.5	Pass
	2605	75	0	20	3.23	-9.899	-0.0038	-2.5 to 2.5	Pass
					3.80	-5.107	-0.0020	-2.5 to 2.5	Pass
					4.37	-14.749	-0.0057	-2.5 to 2.5	Pass
				-30	3.80	-14.563	-0.0056	-2.5 to 2.5	Pass
				-20	3.80	-3.333	-0.0013	-2.5 to 2.5	Pass
				-10	3.80	-23.389	-0.0090	-2.5 to 2.5	Pass
				0	3.80	-8.512	-0.0033	-2.5 to 2.5	Pass
				10	3.80	-13.790	-0.0053	-2.5 to 2.5	Pass
				30	3.80	-8.254	-0.0032	-2.5 to 2.5	Pass
				40	3.80	2.360	0.0009	-2.5 to 2.5	Pass
				50	3.80	-8.798	-0.0034	-2.5 to 2.5	Pass

	2647.5	75	0	20	3.23	-11.745	-0.0044	-2.5 to 2.5	Pass
					3.80	-13.218	-0.0050	-2.5 to 2.5	Pass
					4.37	-13.390	-0.0051	-2.5 to 2.5	Pass
				-30	3.80	-15.221	-0.0057	-2.5 to 2.5	Pass
				-20	3.80	-3.948	-0.0015	-2.5 to 2.5	Pass
				-10	3.80	-16.136	-0.0061	-2.5 to 2.5	Pass
				0	3.80	-7.224	-0.0027	-2.5 to 2.5	Pass
				10	3.80	-1.416	-0.0005	-2.5 to 2.5	Pass
				30	3.80	-10.400	-0.0039	-2.5 to 2.5	Pass
				40	3.80	-0.815	-0.0003	-2.5 to 2.5	Pass
				50	3.80	-13.175	-0.0050	-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	3.23	-6.294	-0.0025	-2.5 to 2.5	Pass
					3.80	-5.536	-0.0022	-2.5 to 2.5	Pass
					4.37	-1.531	-0.0006	-2.5 to 2.5	Pass
				-30	3.80	-7.167	-0.0028	-2.5 to 2.5	Pass
				-20	3.80	-7.825	-0.0031	-2.5 to 2.5	Pass
				-10	3.80	-4.277	-0.0017	-2.5 to 2.5	Pass
				0	3.80	-19.341	-0.0075	-2.5 to 2.5	Pass
				10	3.80	-7.324	-0.0029	-2.5 to 2.5	Pass
				30	3.80	-13.576	-0.0053	-2.5 to 2.5	Pass
				40	3.80	-10.300	-0.0040	-2.5 to 2.5	Pass
				50	3.80	-6.895	-0.0027	-2.5 to 2.5	Pass
	2605	100	0	20	3.23	-6.452	-0.0025	-2.5 to 2.5	Pass
					3.80	-6.924	-0.0027	-2.5 to 2.5	Pass
					4.37	-10.643	-0.0041	-2.5 to 2.5	Pass
				-30	3.80	-4.835	-0.0019	-2.5 to 2.5	Pass
				-20	3.80	-17.223	-0.0066	-2.5 to 2.5	Pass
				-10	3.80	-4.277	-0.0016	-2.5 to 2.5	Pass
				0	3.80	4.492	0.0017	-2.5 to 2.5	Pass
				10	3.80	-8.240	-0.0032	-2.5 to 2.5	Pass
				30	3.80	-9.055	-0.0035	-2.5 to 2.5	Pass
				40	3.80	-10.386	-0.0040	-2.5 to 2.5	Pass
				50	3.80	-16.122	-0.0062	-2.5 to 2.5	Pass
	2645	100	0	20	3.23	-9.027	-0.0034	-2.5 to 2.5	Pass
					3.80	-0.944	-0.0004	-2.5 to 2.5	Pass
					4.37	-4.377	-0.0017	-2.5 to 2.5	Pass
				-30	3.80	-17.309	-0.0065	-2.5 to 2.5	Pass
				-20	3.80	-6.137	-0.0023	-2.5 to 2.5	Pass
				-10	3.80	-5.035	-0.0019	-2.5 to 2.5	Pass
				0	3.80	-14.806	-0.0056	-2.5 to 2.5	Pass
				10	3.80	-3.719	-0.0014	-2.5 to 2.5	Pass
				30	3.80	-14.291	-0.0054	-2.5 to 2.5	Pass
				40	3.80	-7.153	-0.0027	-2.5 to 2.5	Pass
16QAM	2565	100	0	20	3.23	-3.004	-0.0012	-2.5 to 2.5	Pass
					3.80	-1.216	-0.0005	-2.5 to 2.5	Pass
					4.37	-3.905	-0.0015	-2.5 to 2.5	Pass
				-30	3.80	-14.119	-0.0055	-2.5 to 2.5	Pass
				-20	3.80	-1.030	-0.0004	-2.5 to 2.5	Pass
				-10	3.80	-2.775	-0.0011	-2.5 to 2.5	Pass
				0	3.80	-10.214	-0.0040	-2.5 to 2.5	Pass
				10	3.80	-5.121	-0.0020	-2.5 to 2.5	Pass
				30	3.80	-2.747	-0.0011	-2.5 to 2.5	Pass
				40	3.80	-6.495	-0.0025	-2.5 to 2.5	Pass
				50	3.80	-13.132	-0.0051	-2.5 to 2.5	Pass
	2605	100	0	20	3.23	-14.520	-0.0056	-2.5 to 2.5	Pass
					3.80	-16.050	-0.0062	-2.5 to 2.5	Pass
					4.37	-13.075	-0.0050	-2.5 to 2.5	Pass
				-30	3.80	-14.863	-0.0057	-2.5 to 2.5	Pass
				-20	3.80	-10.657	-0.0041	-2.5 to 2.5	Pass
				-10	3.80	-4.649	-0.0018	-2.5 to 2.5	Pass
				0	3.80	-13.947	-0.0054	-2.5 to 2.5	Pass
				10	3.80	-10.142	-0.0039	-2.5 to 2.5	Pass
				30	3.80	-3.419	-0.0013	-2.5 to 2.5	Pass
				40	3.80	-18.539	-0.0071	-2.5 to 2.5	Pass
				50	3.80	-10.943	-0.0042	-2.5 to 2.5	Pass

	2645	100	0	20	3.23	-1.016	-0.0004	-2.5 to 2.5	Pass
					3.80	-7.167	-0.0027	-2.5 to 2.5	Pass
					4.37	-10.514	-0.0040	-2.5 to 2.5	Pass
				-30	3.80	-9.055	-0.0034	-2.5 to 2.5	Pass
				-20	3.80	-5.207	-0.0020	-2.5 to 2.5	Pass
				-10	3.80	-3.076	-0.0012	-2.5 to 2.5	Pass
				0	3.80	-2.031	-0.0008	-2.5 to 2.5	Pass
				10	3.80	-3.290	-0.0012	-2.5 to 2.5	Pass
				30	3.80	-3.462	-0.0013	-2.5 to 2.5	Pass
				40	3.80	-9.413	-0.0036	-2.5 to 2.5	Pass
				50	3.80	8.068	0.0031	-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

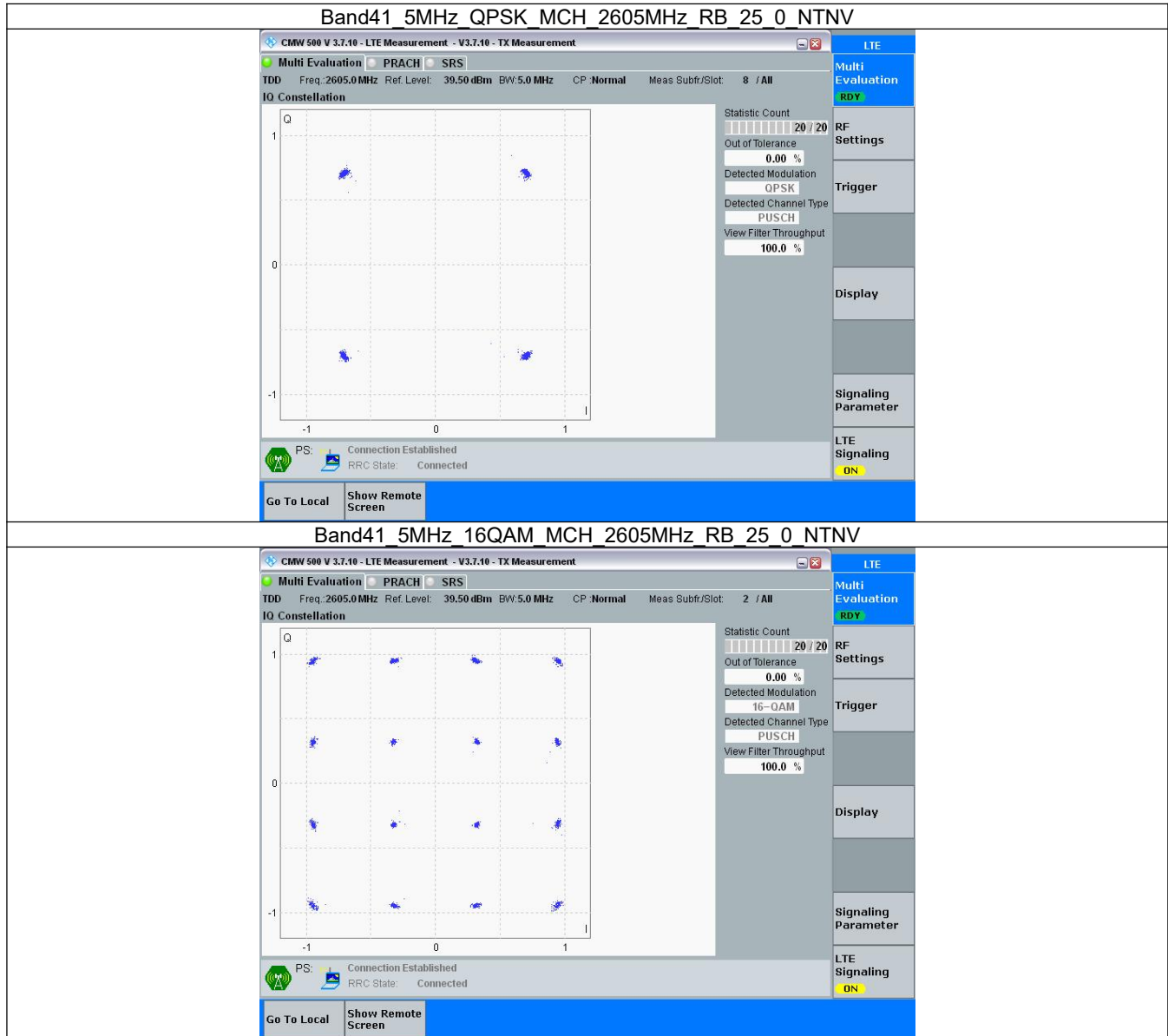
Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	75	0	Refer To Test Graph		Pass
16QAM	2605	75	0	Refer To Test Graph		Pass

3.1.4 B41_20MHz

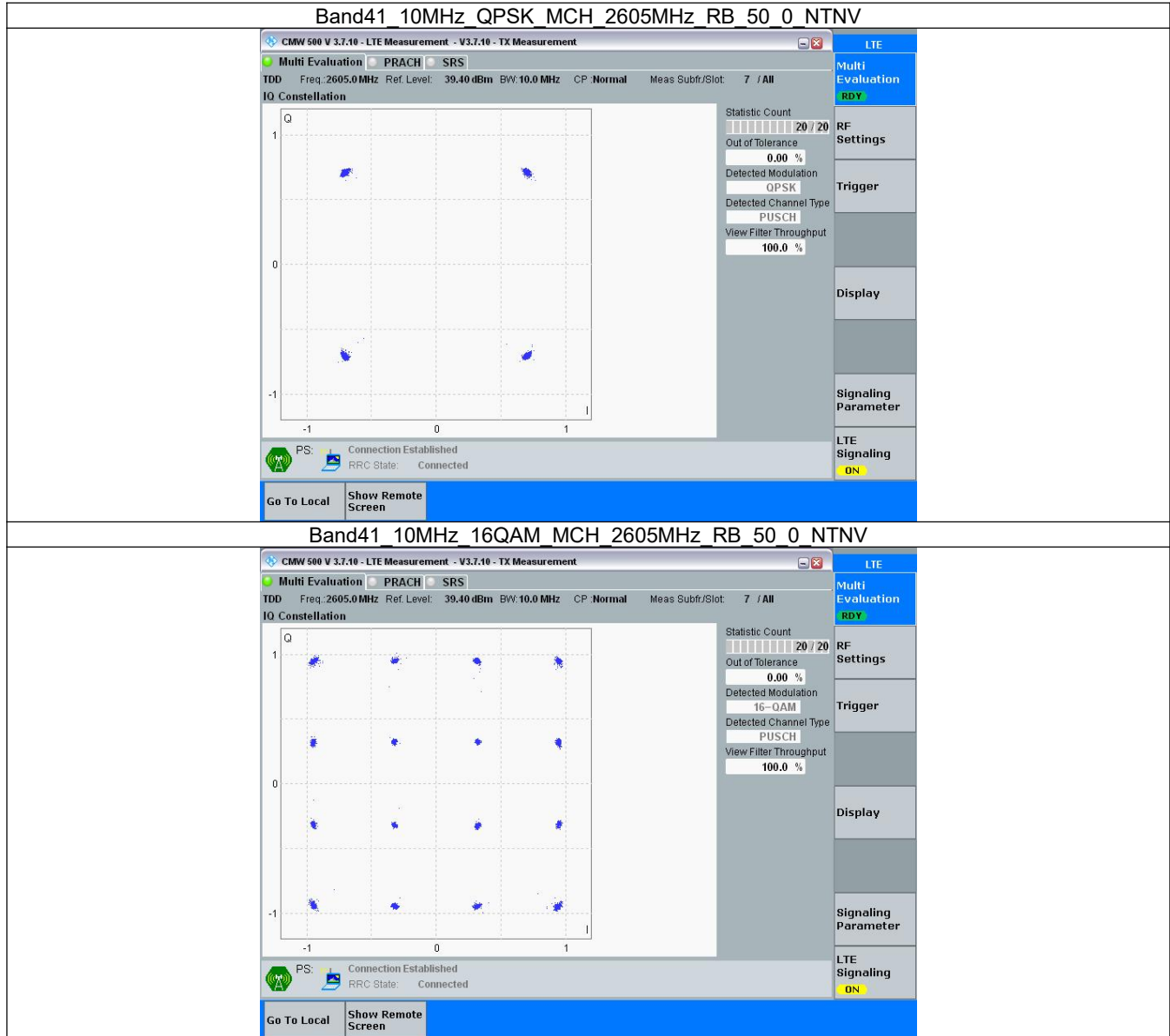
Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	100	0	Refer To Test Graph		Pass
16QAM	2605	100	0	Refer To Test Graph		Pass

3.2 Test Graph

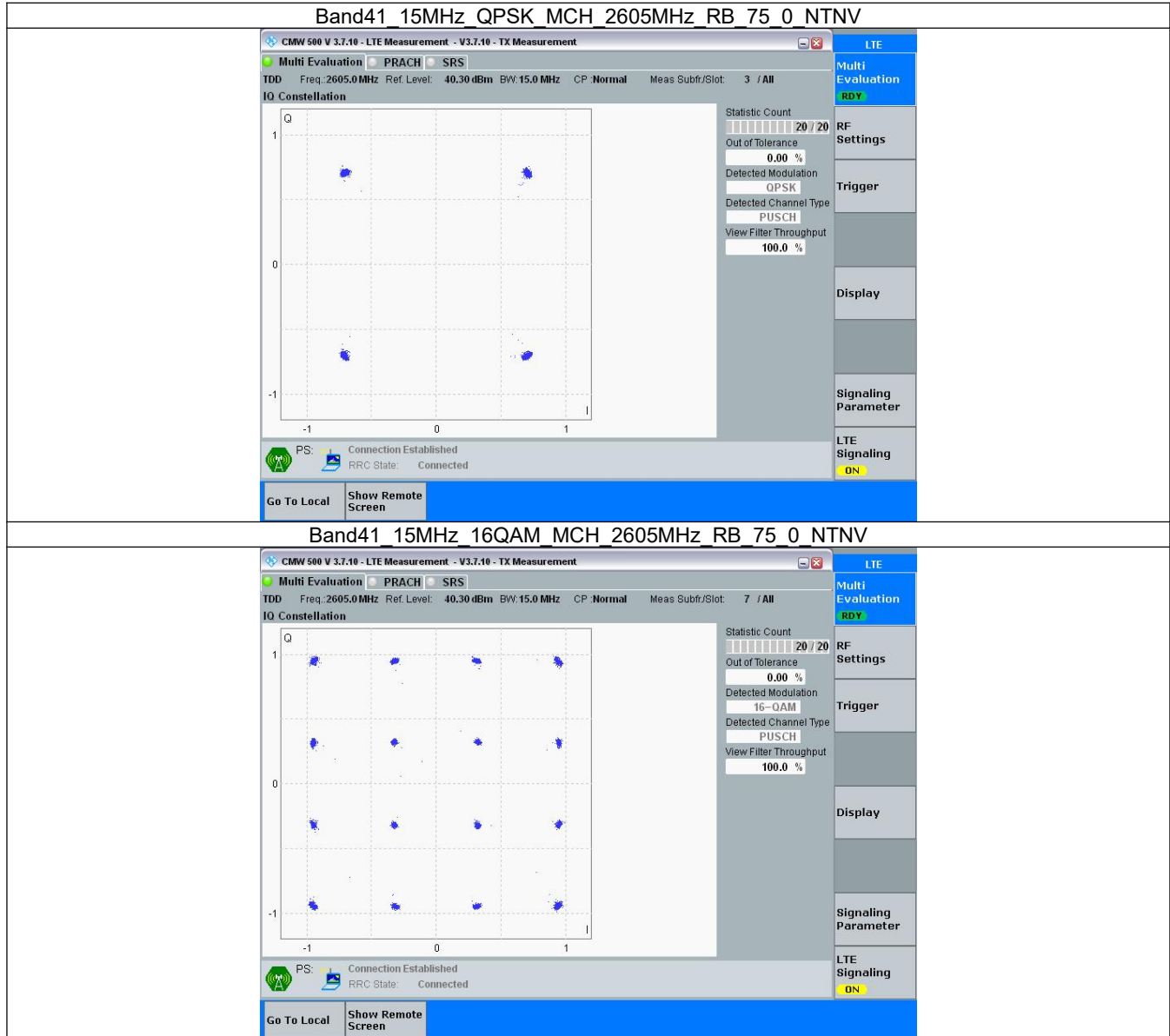
3.2.1 B41_5MHz



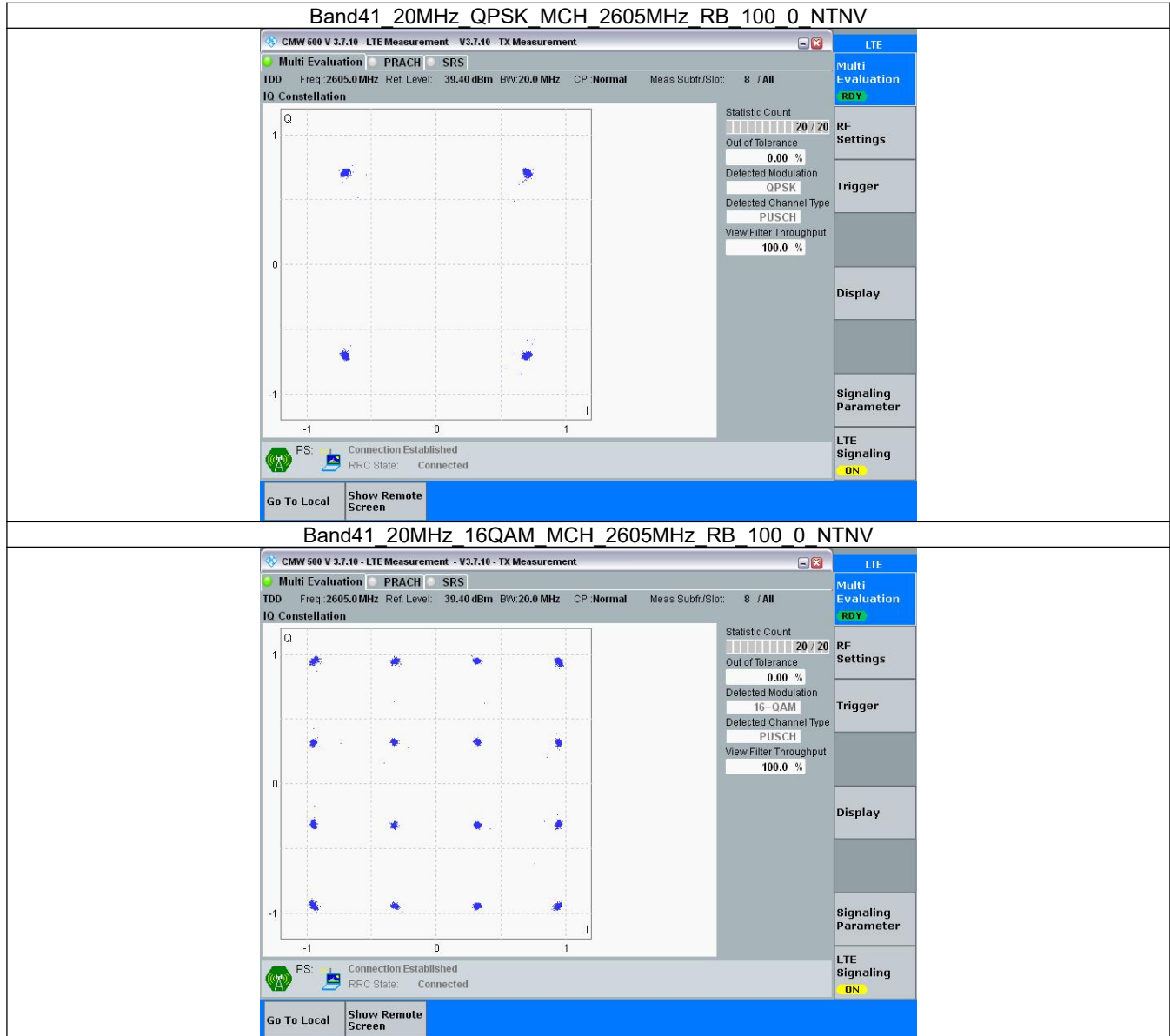
3.2.2 B41_10MHz



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	4.540	/	Pass
		2605	25	0	4.543	/	Pass
		2652.5	25	0	4.554	/	Pass
	16QAM	2557.5	25	0	4.539	/	Pass
		2605	25	0	4.530	/	Pass
		2652.5	25	0	4.553	/	Pass
10	QPSK	2560	50	0	9.048	/	Pass
		2605	50	0	9.071	/	Pass
		2650	50	0	9.066	/	Pass
	16QAM	2560	50	0	9.076	/	Pass
		2605	50	0	9.043	/	Pass
		2650	50	0	9.075	/	Pass
15	QPSK	2562.5	75	0	13.545	/	Pass
		2605	75	0	13.574	/	Pass
		2647.5	75	0	13.584	/	Pass
	16QAM	2562.5	75	0	13.602	/	Pass
		2605	75	0	13.624	/	Pass
		2647.5	75	0	13.612	/	Pass
20	QPSK	2565	100	0	18.133	/	Pass
		2605	100	0	18.045	/	Pass
		2645	100	0	18.144	/	Pass
	16QAM	2565	100	0	18.104	/	Pass
		2605	100	0	18.110	/	Pass
		2645	100	0	18.070	/	Pass

4.1.2 Band41_XDB

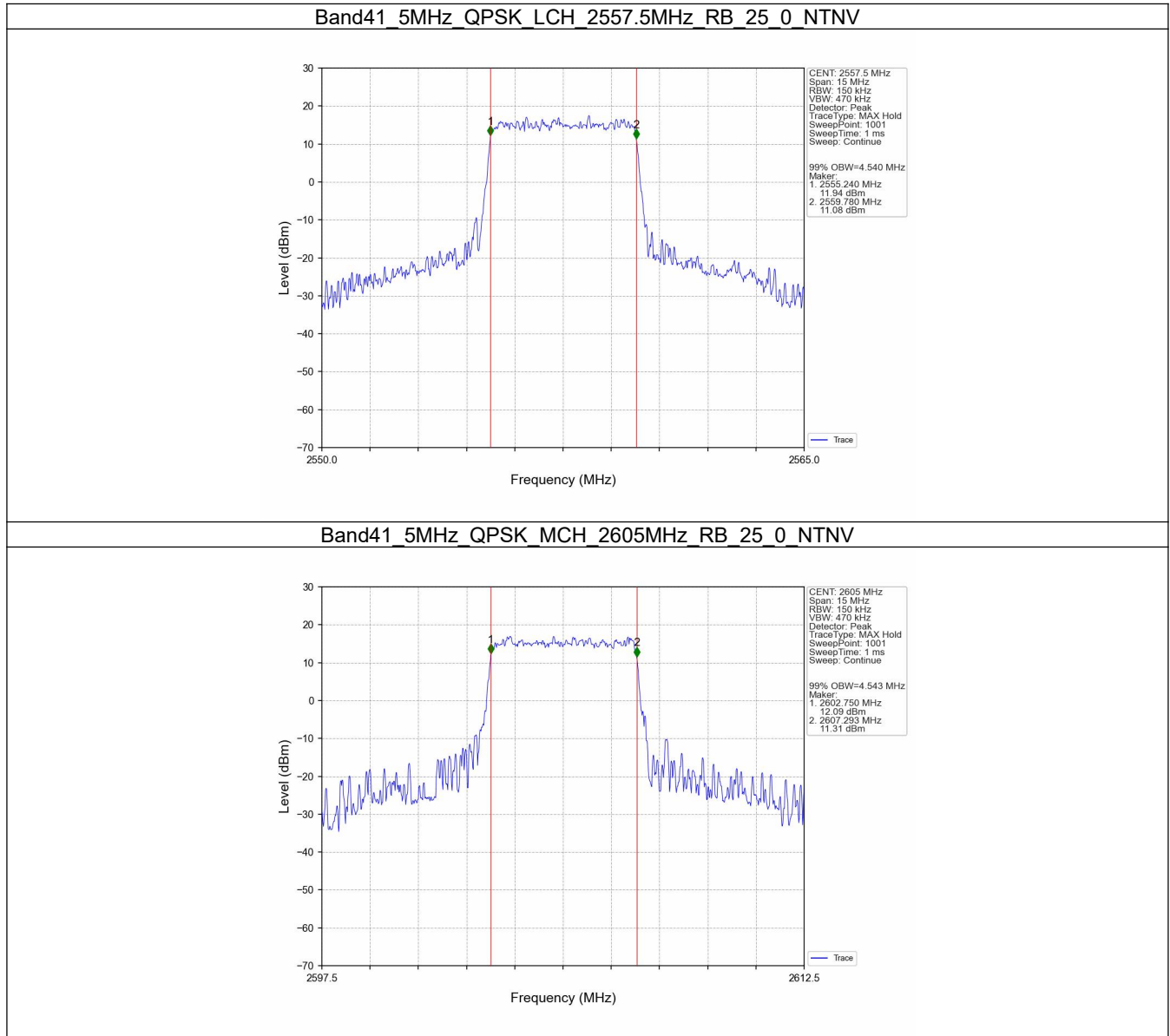
Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2557.5	25	0	5.011	/	Pass
		2605	25	0	5.290	/	Pass
		2652.5	25	0	5.164	/	Pass
	16QAM	2557.5	25	0	5.170	/	Pass
		2605	25	0	5.022	/	Pass
		2652.5	25	0	5.033	/	Pass
10	QPSK	2560	50	0	10.198	/	Pass
		2605	50	0	9.968	/	Pass
		2650	50	0	10.198	/	Pass
	16QAM	2560	50	0	10.871	/	Pass
		2605	50	0	9.930	/	Pass
		2650	50	0	10.096	/	Pass
15	QPSK	2562.5	75	0	15.066	/	Pass
		2605	75	0	15.790	/	Pass
		2647.5	75	0	15.612	/	Pass
	16QAM	2562.5	75	0	16.378	/	Pass
		2605	75	0	16.605	/	Pass
		2647.5	75	0	16.221	/	Pass
20	QPSK	2565	100	0	19.864	/	Pass



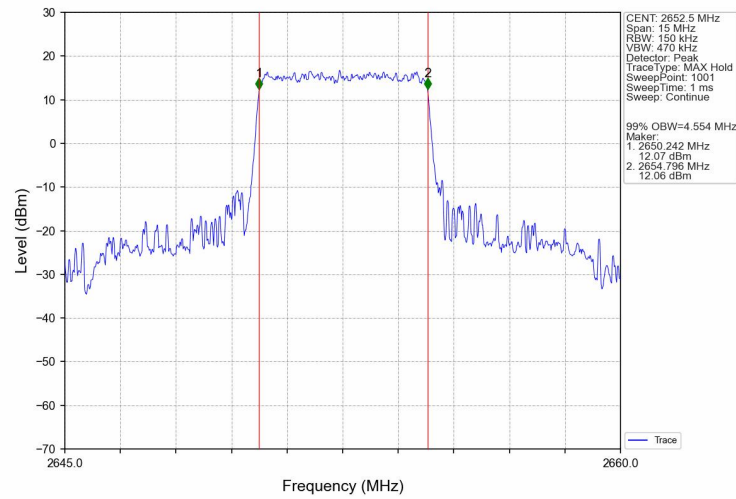
		2605	100	0	19.536	/	Pass
		2645	100	0	19.659	/	Pass
	16QAM	2565	100	0	19.679	/	Pass
		2605	100	0	19.805	/	Pass
		2645	100	0	19.982	/	Pass

4.2 Test Graph

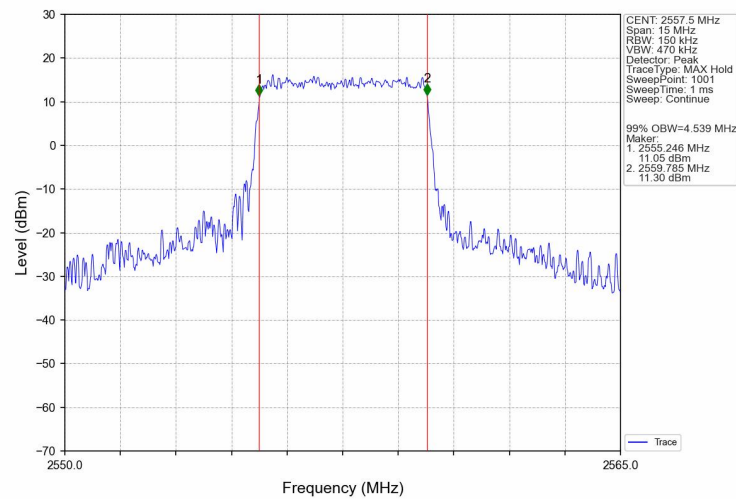
4.2.1 Band41_OBW



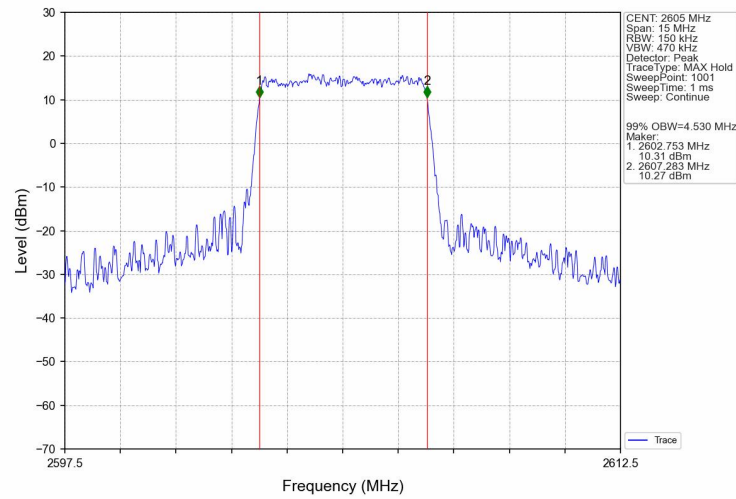
Band41_5MHz_QPSK_HCH_2652.5MHz_RB_25_0_NTNV



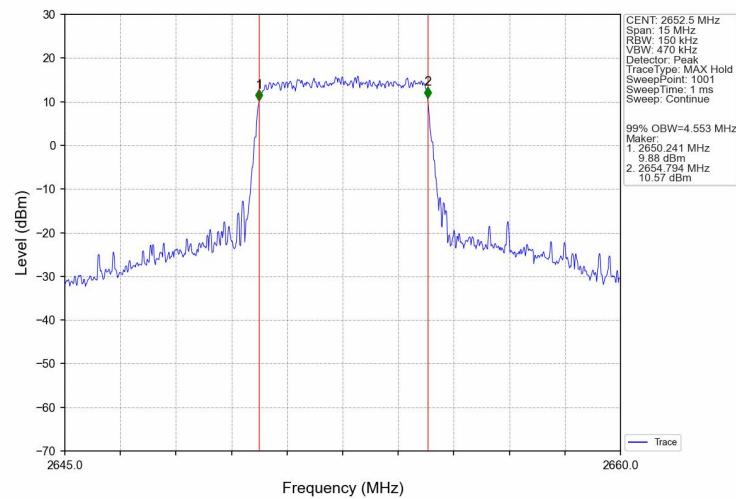
Band41_5MHz_16QAM_LCH_2557.5MHz_RB_25_0_NTNV



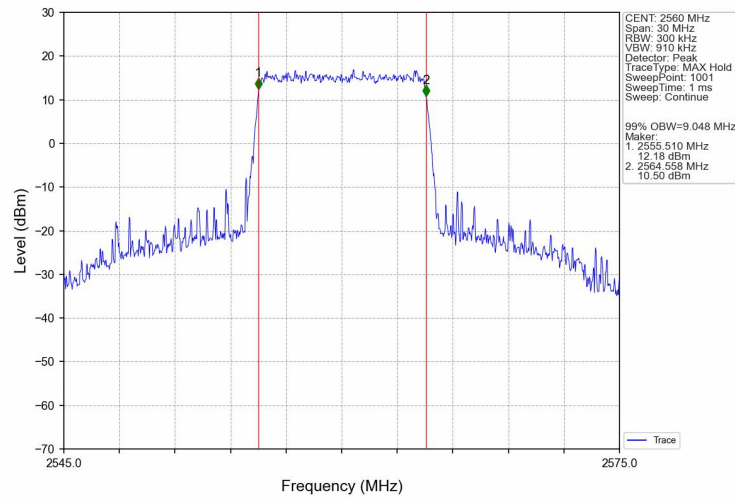
Band41_5MHz_16QAM_MCH_2605MHz_RB_25_0_NTNV



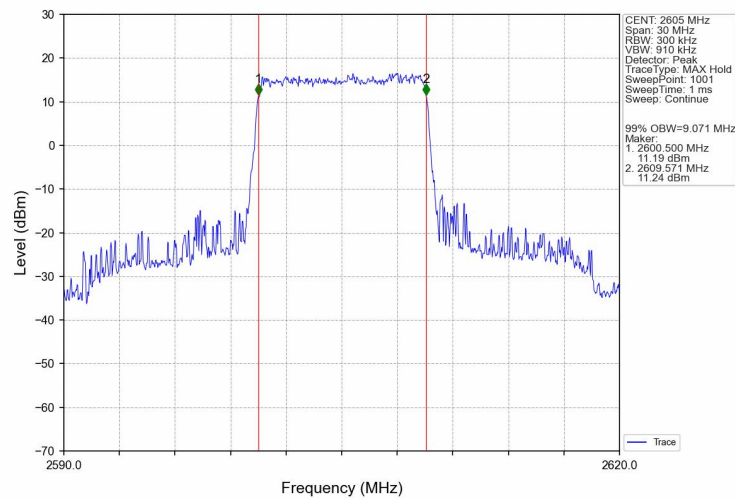
Band41_5MHz_16QAM_HCH_2652.5MHz_RB_25_0_NTNV



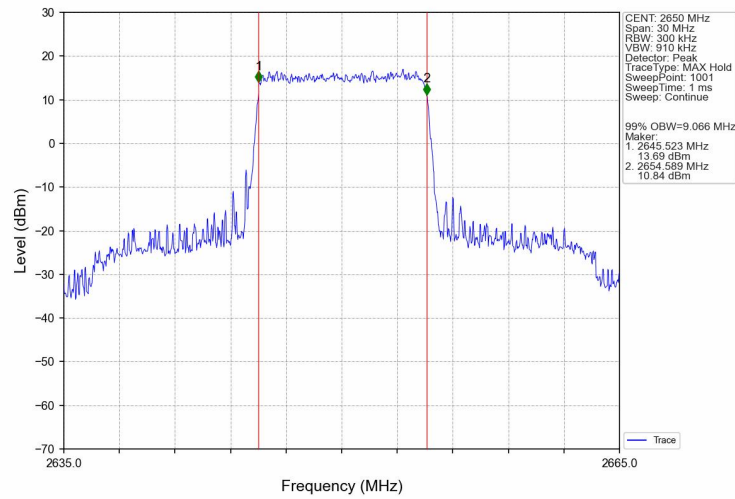
Band41_10MHz_QPSK_LCH_2560MHz_RB_50_0_NTNV



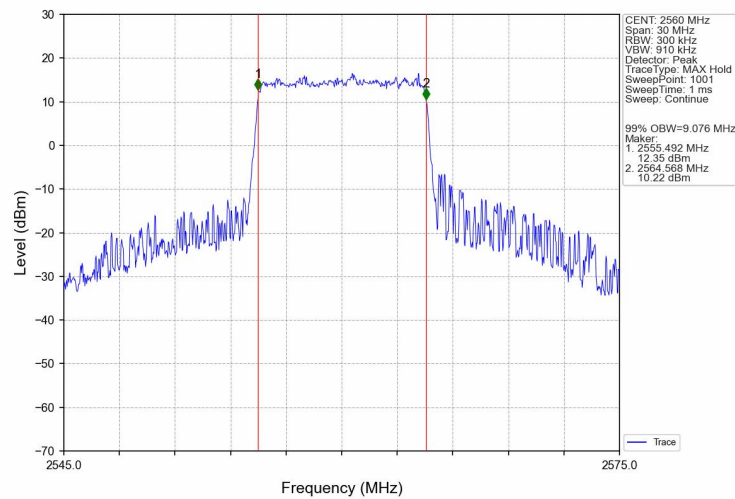
Band41_10MHz_QPSK_MCH_2605MHz_RB_50_0_NTNV



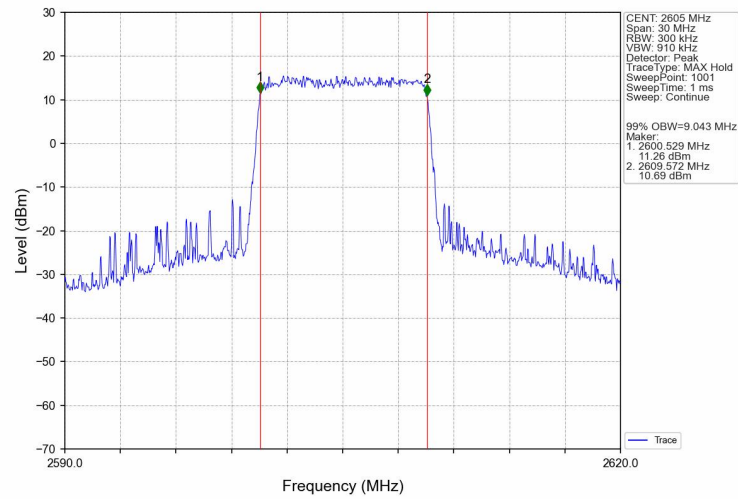
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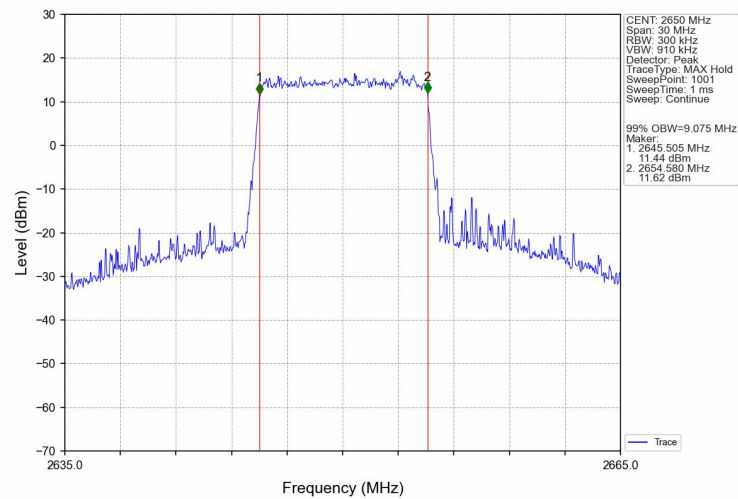
Band41_10MHz_16QAM_LCH_2560MHz_RB_50_0_NTNV



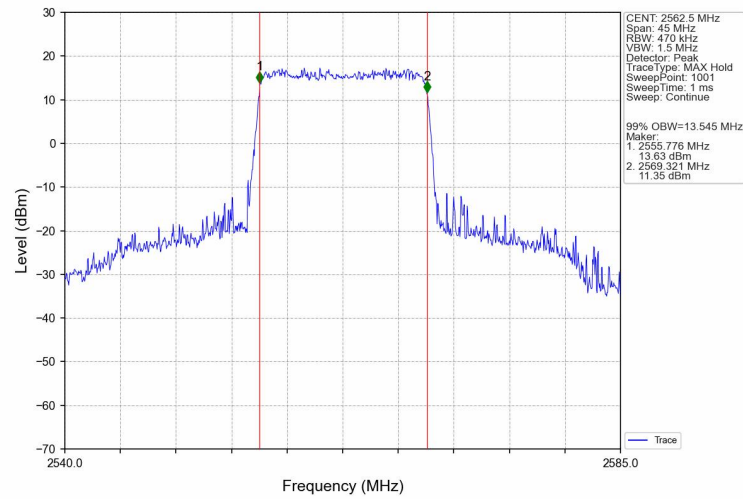
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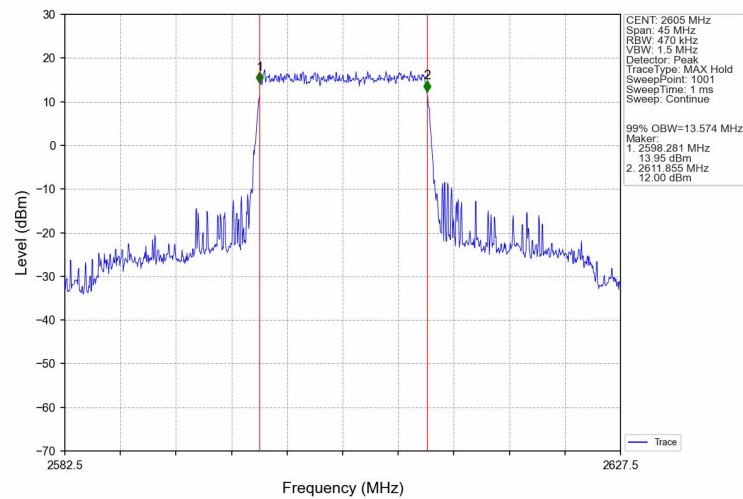
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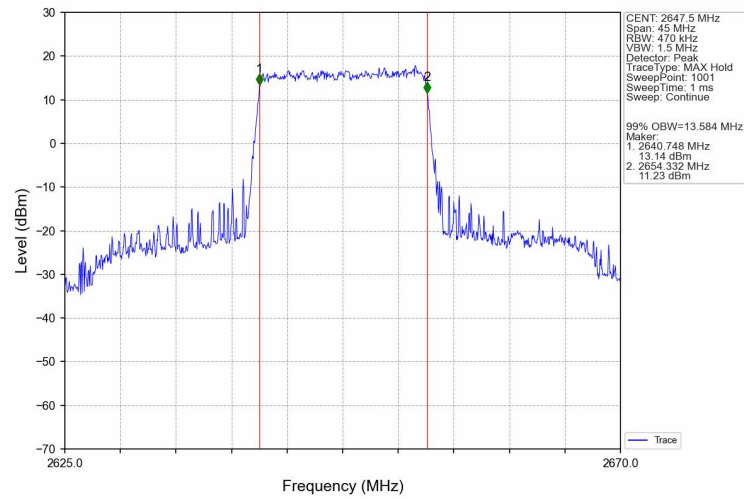
Band41_15MHz_QPSK_LCH_2562.5MHz_RB_75_0_NTNV



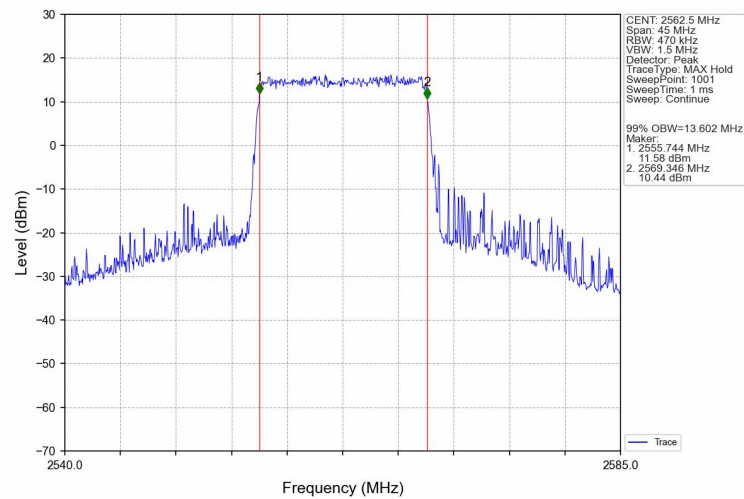
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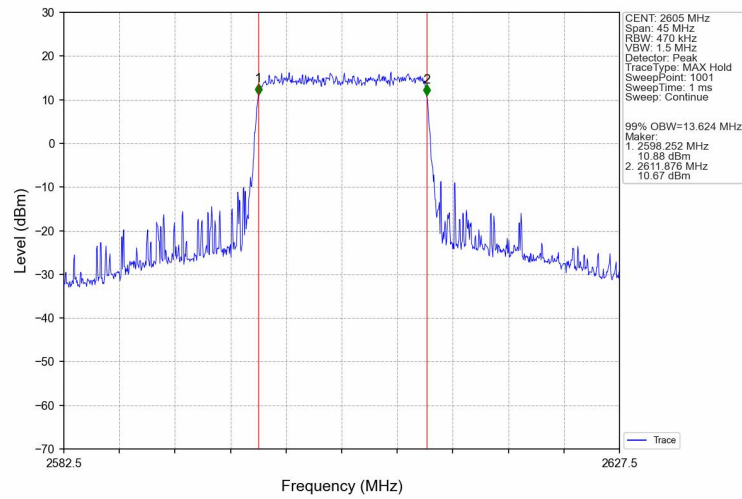
Band41_15MHz_QPSK_HCH_2647.5MHz_RB_75_0_NTNV



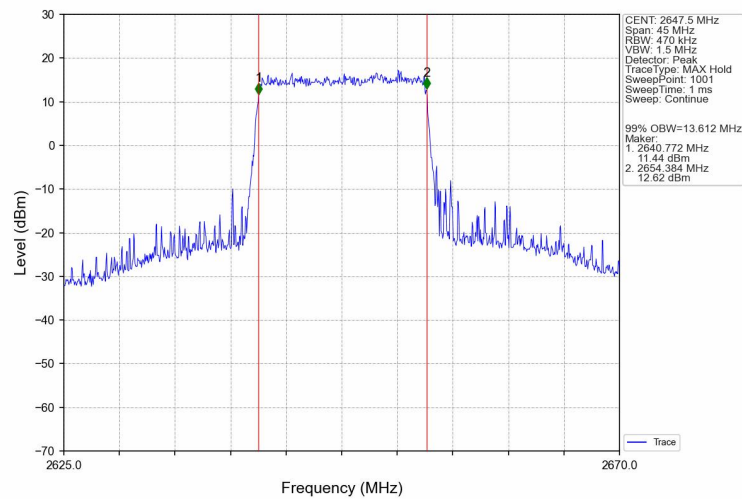
Band41_15MHz_16QAM_LCH_2562.5MHz_RB_75_0_NTNV



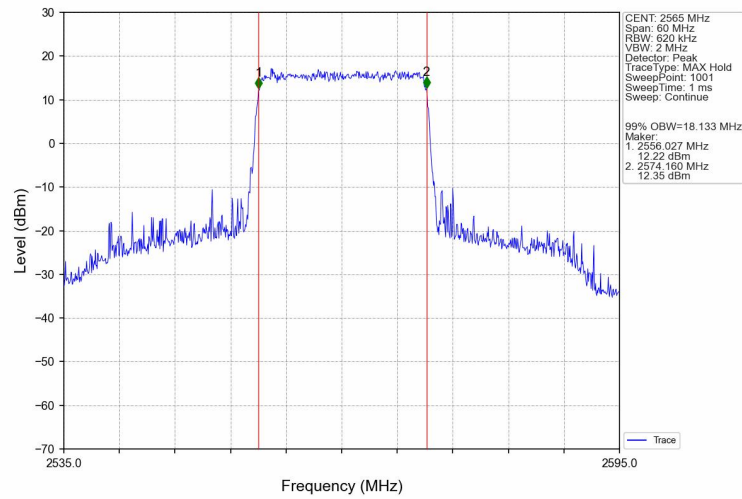
Band41_15MHz_16QAM_MCH_2605MHz_RB_75_0_NTNV



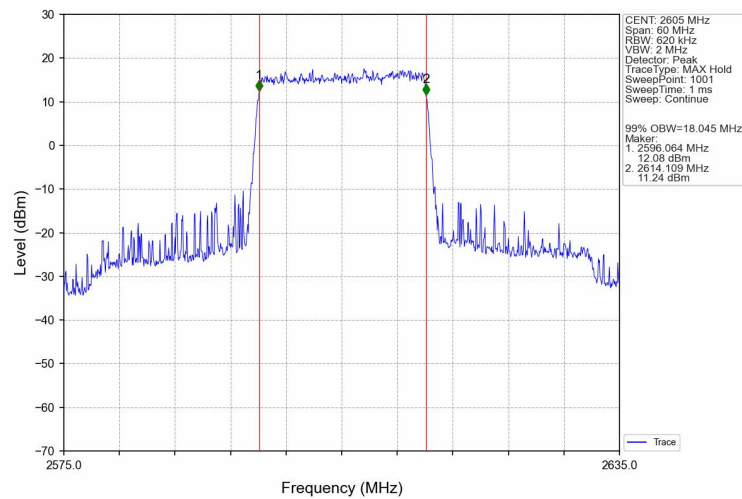
Band41_15MHz_16QAM_HCH_2647.5MHz_RB_75_0_NTNV



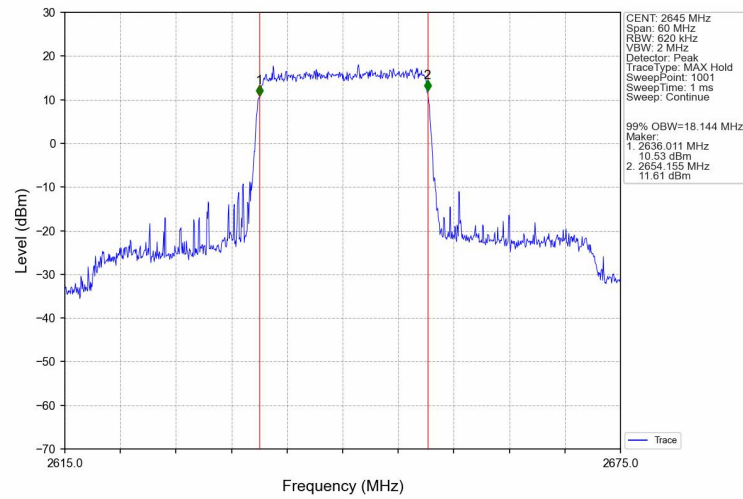
Band41_20MHz_QPSK_LCH_2565MHz_RB_100_0_NTNV



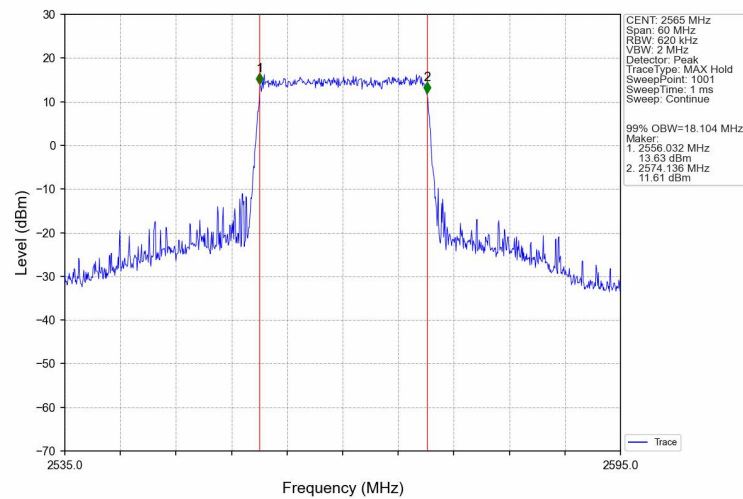
Band41_20MHz_QPSK_MCH_2605MHz_RB_100_0_NTNV



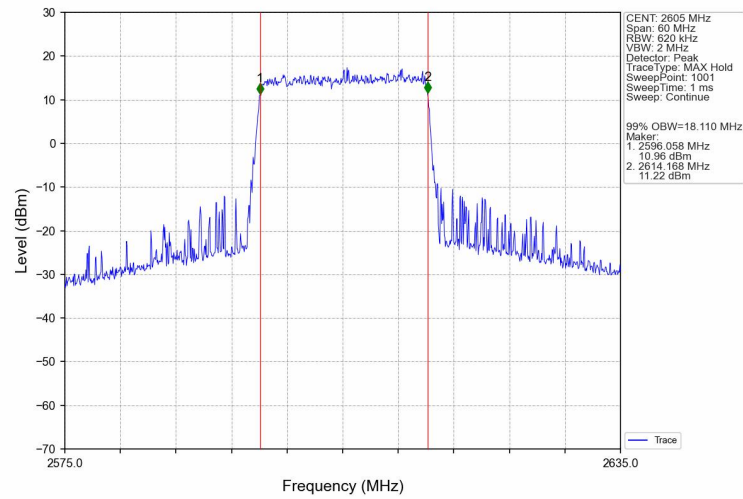
Band41_20MHz_QPSK_HCH_2645MHz_RB_100_0_NTNV



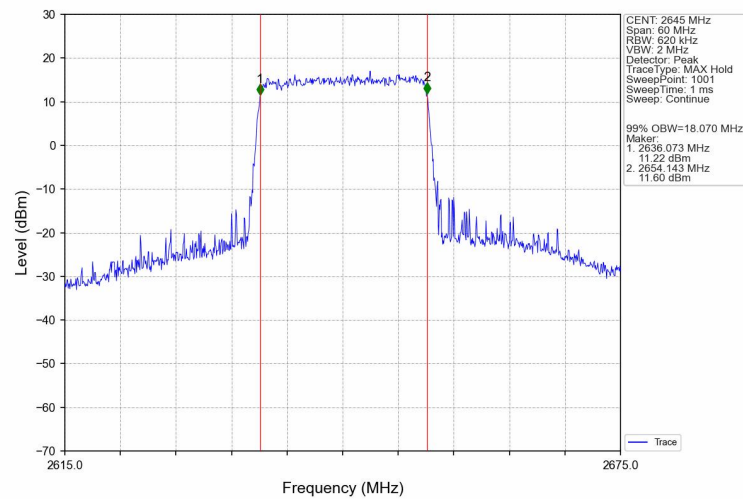
Band41_20MHz_16QAM_LCH_2565MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_MCH_2605MHz_RB_100_0_NTNV

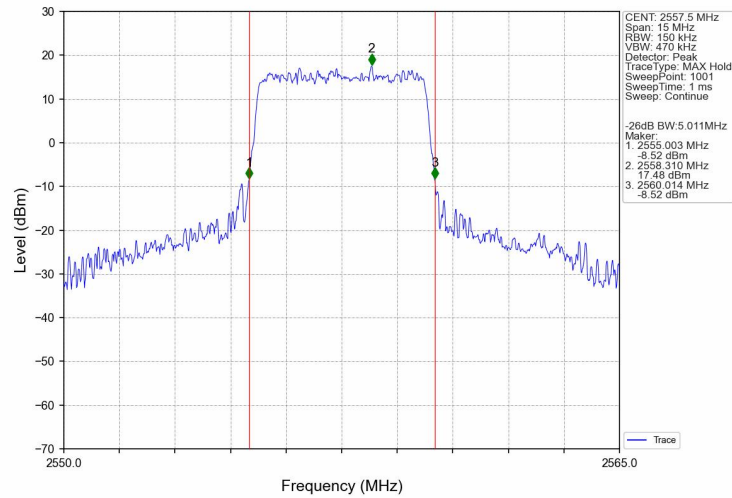


Band41_20MHz_16QAM_HCH_2645MHz_RB_100_0_NTNV

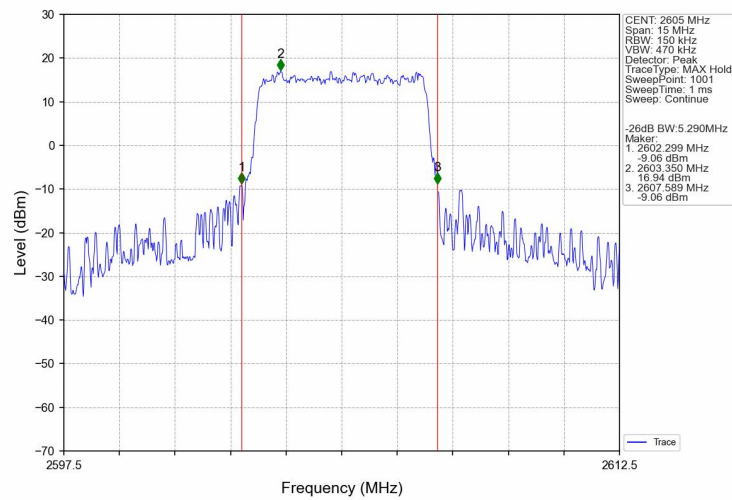


4.2.2 Band41_XDB

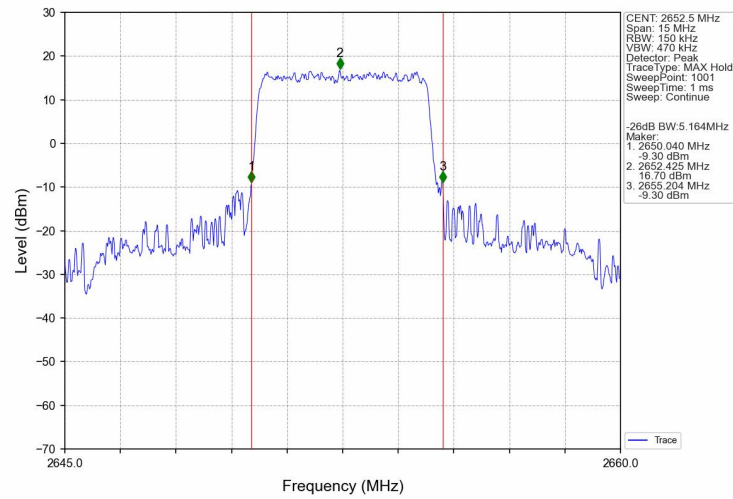
Band41_5MHz_QPSK_LCH_2557.5MHz_RB_25_0_NTNV



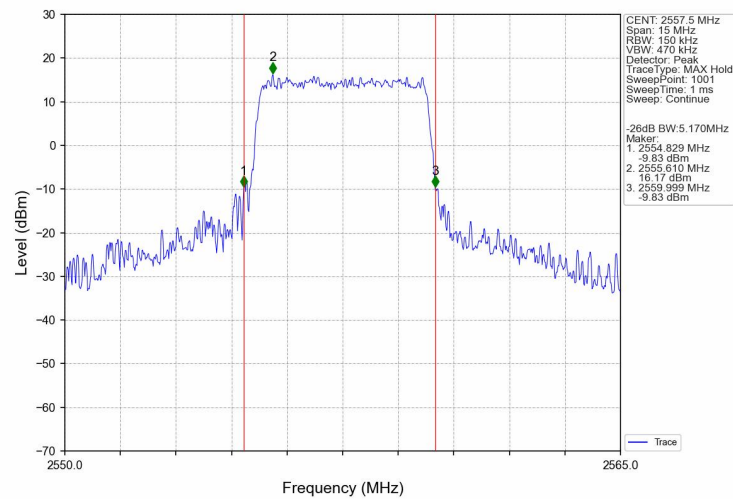
Band41_5MHz_QPSK_MCH_2605MHz_RB_25_0_NTNV



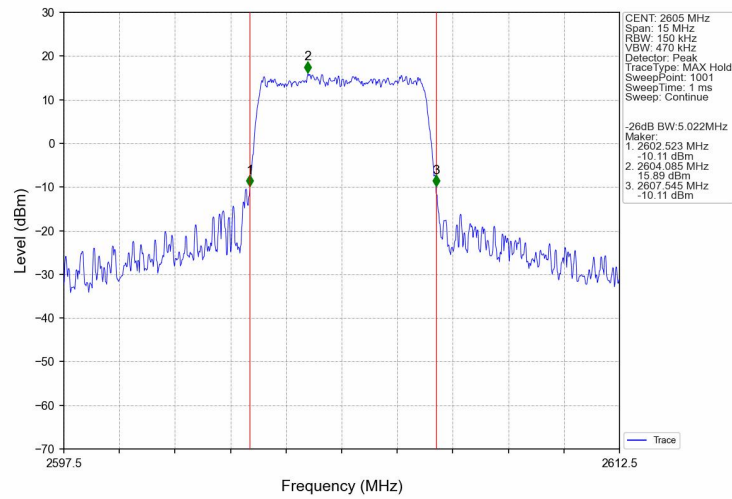
Band41_5MHz_QPSK_HCH_2652.5MHz_RB_25_0_NTNV



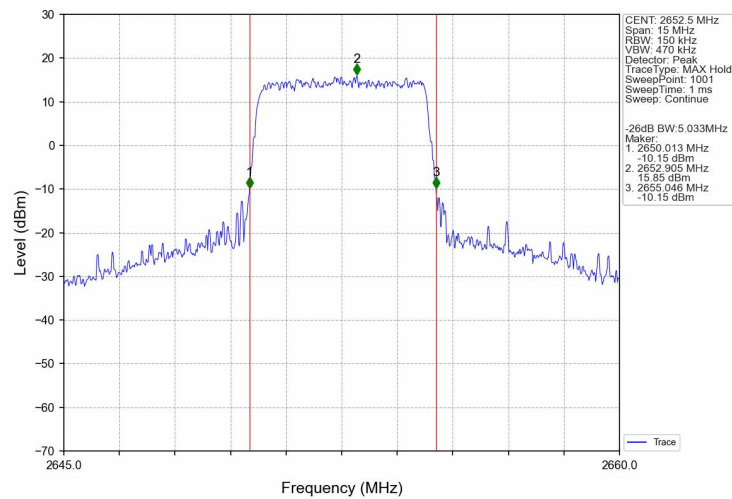
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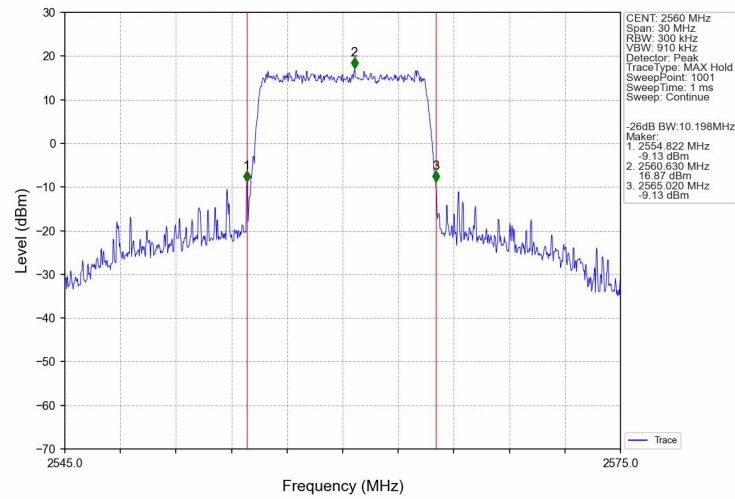
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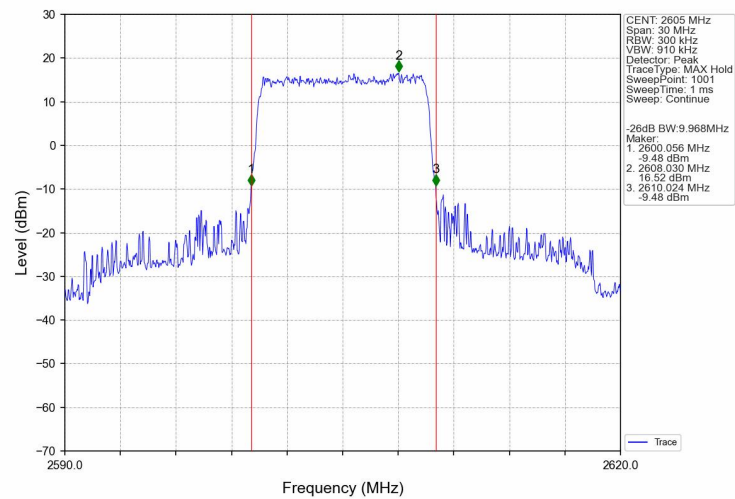
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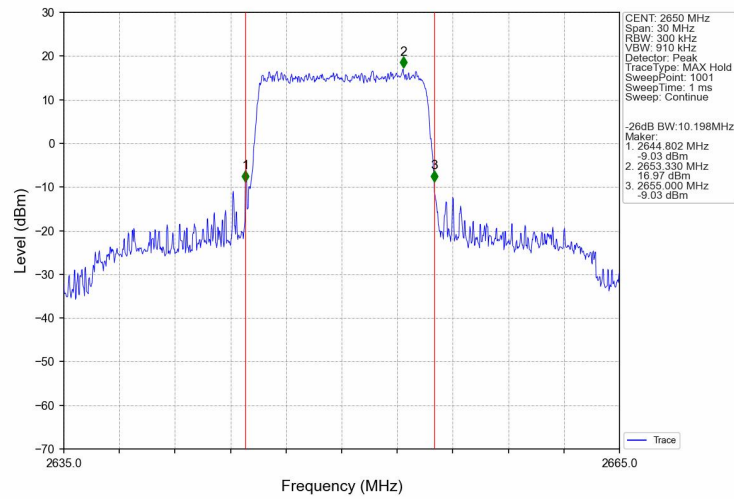
Band41_10MHz_QPSK_LCH_2560MHz_RB_50_0_NTNV



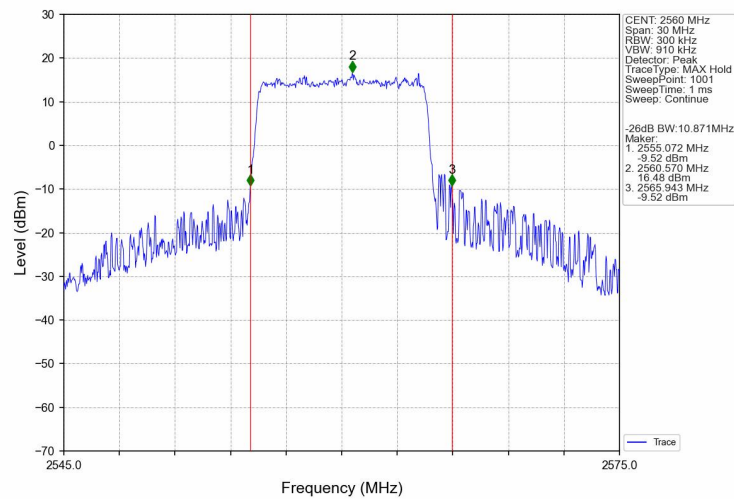
Band41_10MHz_QPSK_MCH_2605MHz_RB_50_0_NTNV



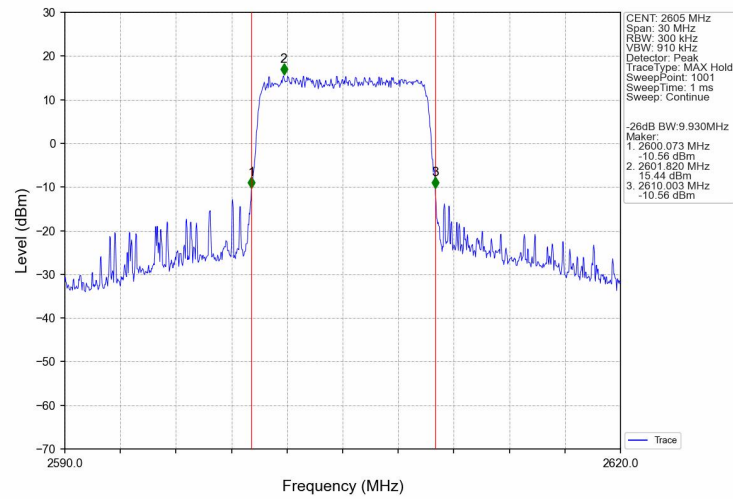
Band41_10MHz_QPSK_HCH_2650MHz_RB_50_0_NTNV



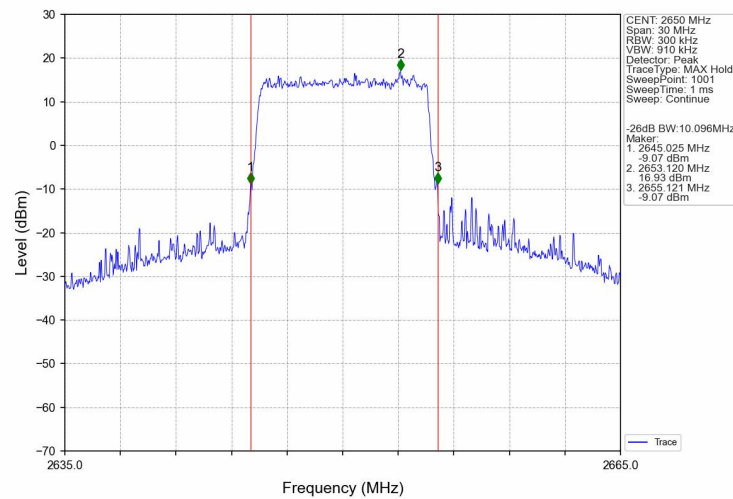
Band41_10MHz_16QAM_LCH_2560MHz_RB_50_0_NTNV



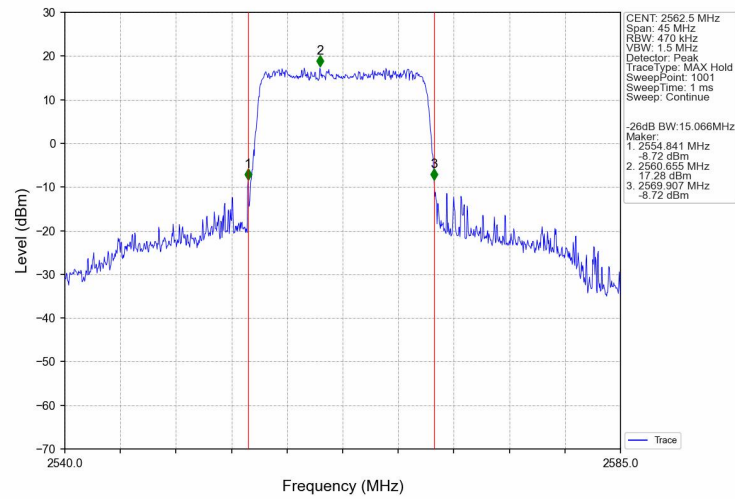
Band41_10MHz_16QAM_MCH_2605MHz_RB_50_0_NTNV



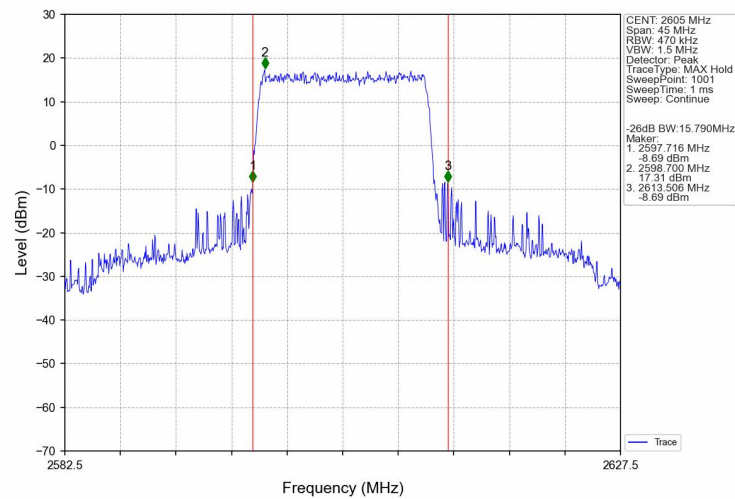
Band41_10MHz_16QAM_HCH_2650MHz_RB_50_0_NTNV



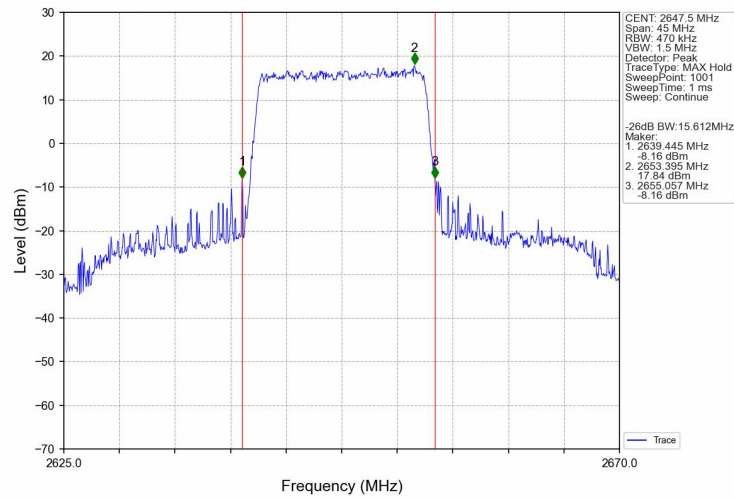
Band41_15MHz_QPSK_LCH_2562.5MHz_RB_75_0_NTNV



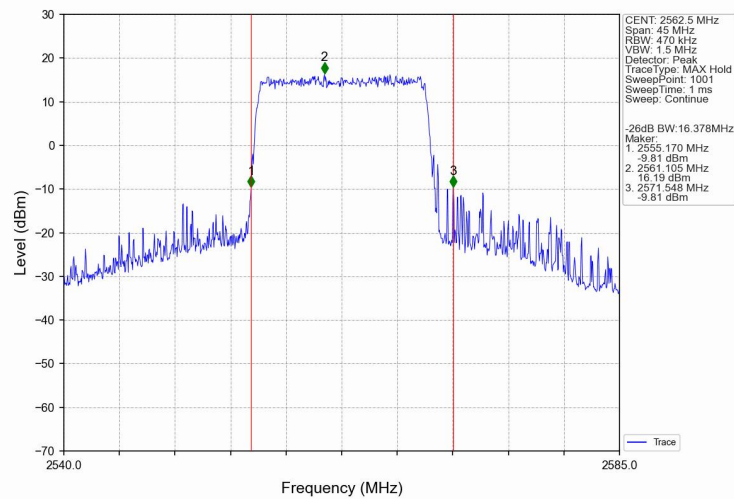
Band41_15MHz_QPSK_MCH_2605MHz_RB_75_0_NTNV



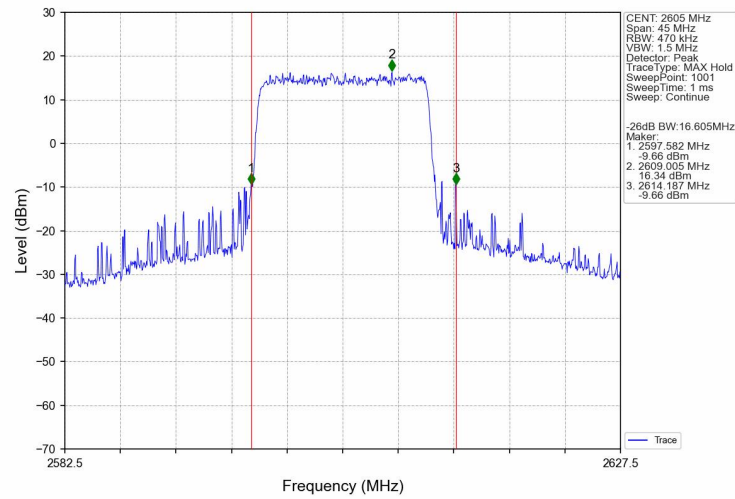
Band41_15MHz_QPSK_HCH_2647.5MHz_RB_75_0_NTNV



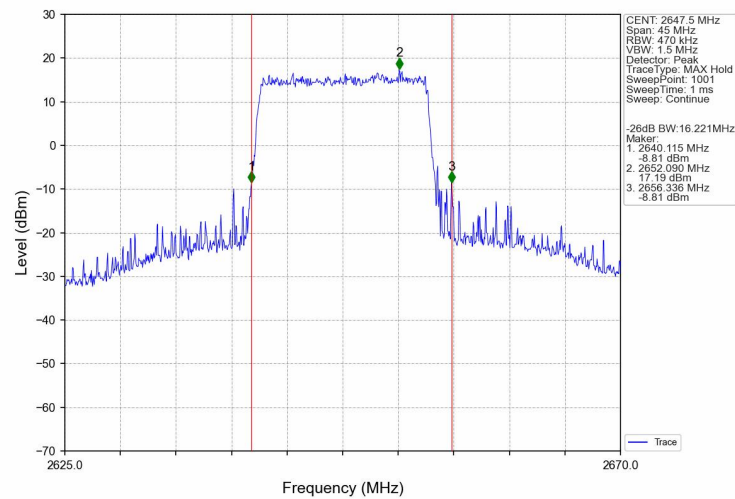
Band41_15MHz_16QAM_LCH_2562.5MHz_RB_75_0_NTNV



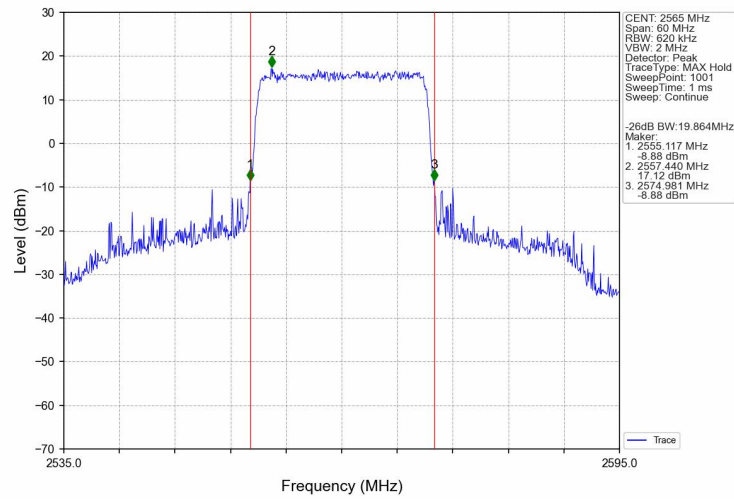
Band41_15MHz_16QAM_MCH_2605MHz_RB_75_0_NTNV



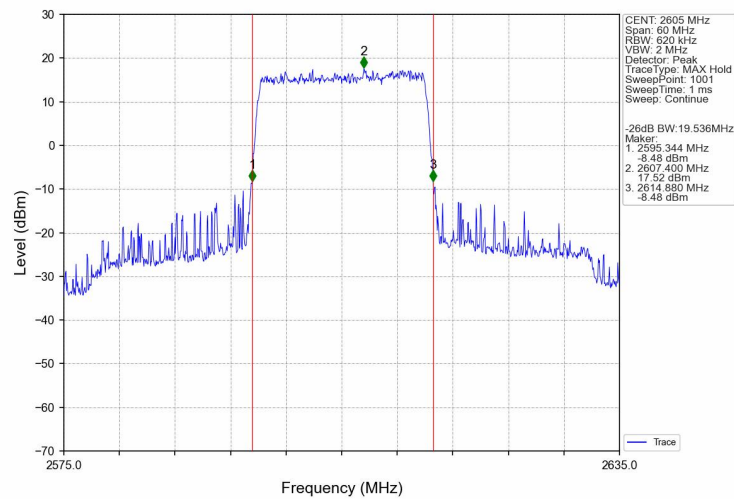
Band41_15MHz_16QAM_HCH_2647.5MHz_RB_75_0_NTNV



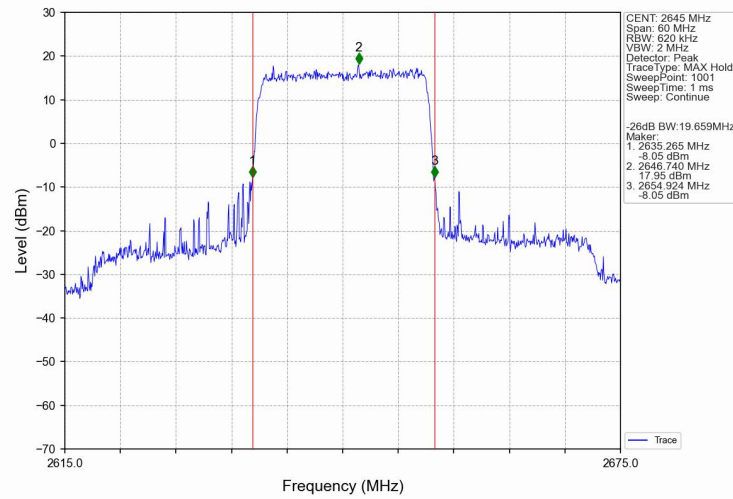
Band41_20MHz_QPSK_LCH_2565MHz_RB_100_0_NTNV



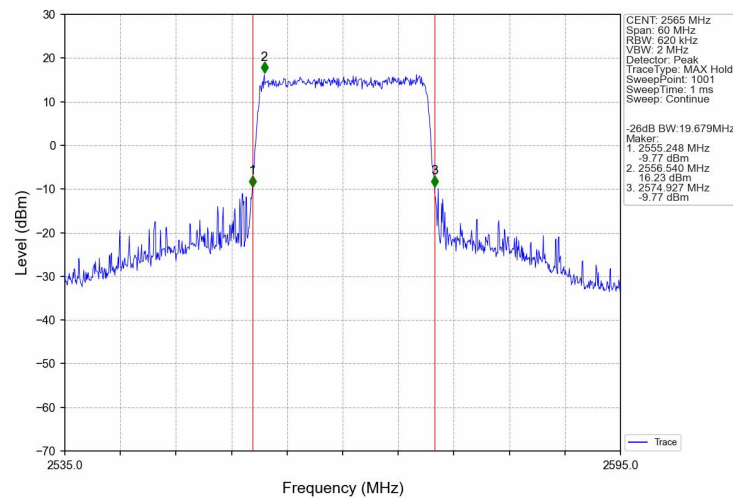
Band41_20MHz_QPSK_MCH_2605MHz_RB_100_0_NTNV



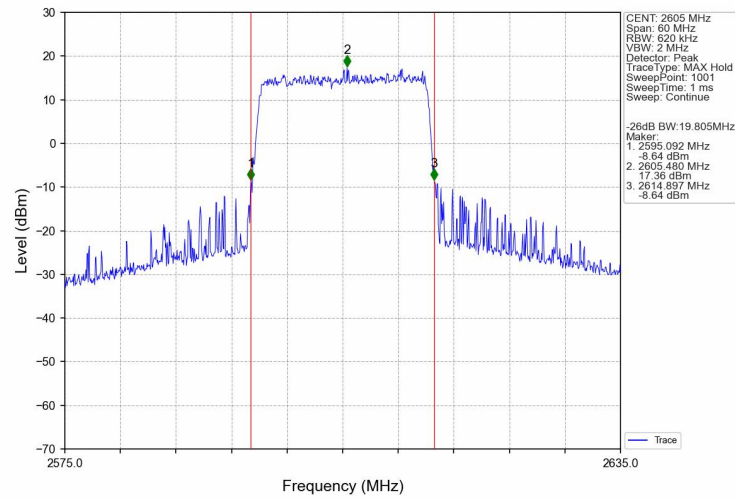
Band41_20MHz_QPSK_HCH_2645MHz_RB_100_0_NTNV



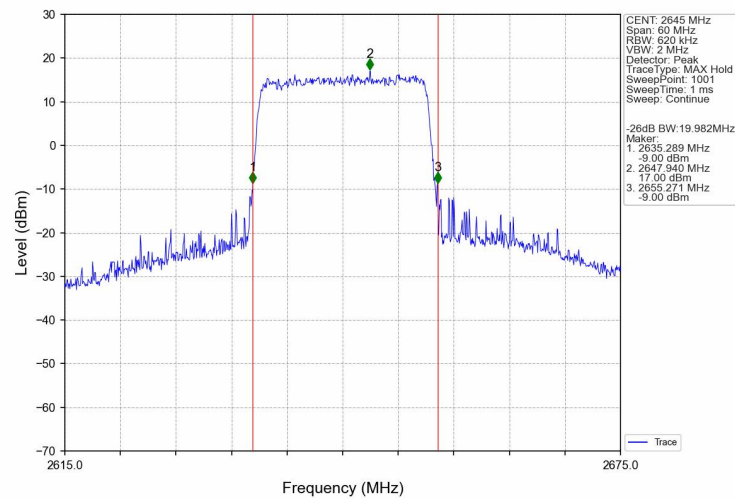
Band41_20MHz_16QAM_LCH_2565MHz_RB_100_0_NTNV



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	7.24	<=13	Pass
	2605	25	0	7.60	<=13	Pass
	2652.5	25	0	7.41	<=13	Pass
16QAM	2557.5	25	0	8.07	<=13	Pass
	2605	25	0	8.07	<=13	Pass
	2652.5	25	0	8.07	<=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	7.34	<=13	Pass
	2605	50	0	7.61	<=13	Pass
	2650	50	0	7.56	<=13	Pass
16QAM	2560	50	0	8.17	<=13	Pass
	2605	50	0	8.16	<=13	Pass
	2650	50	0	8.20	<=13	Pass

5.1.3 B41_15MHz

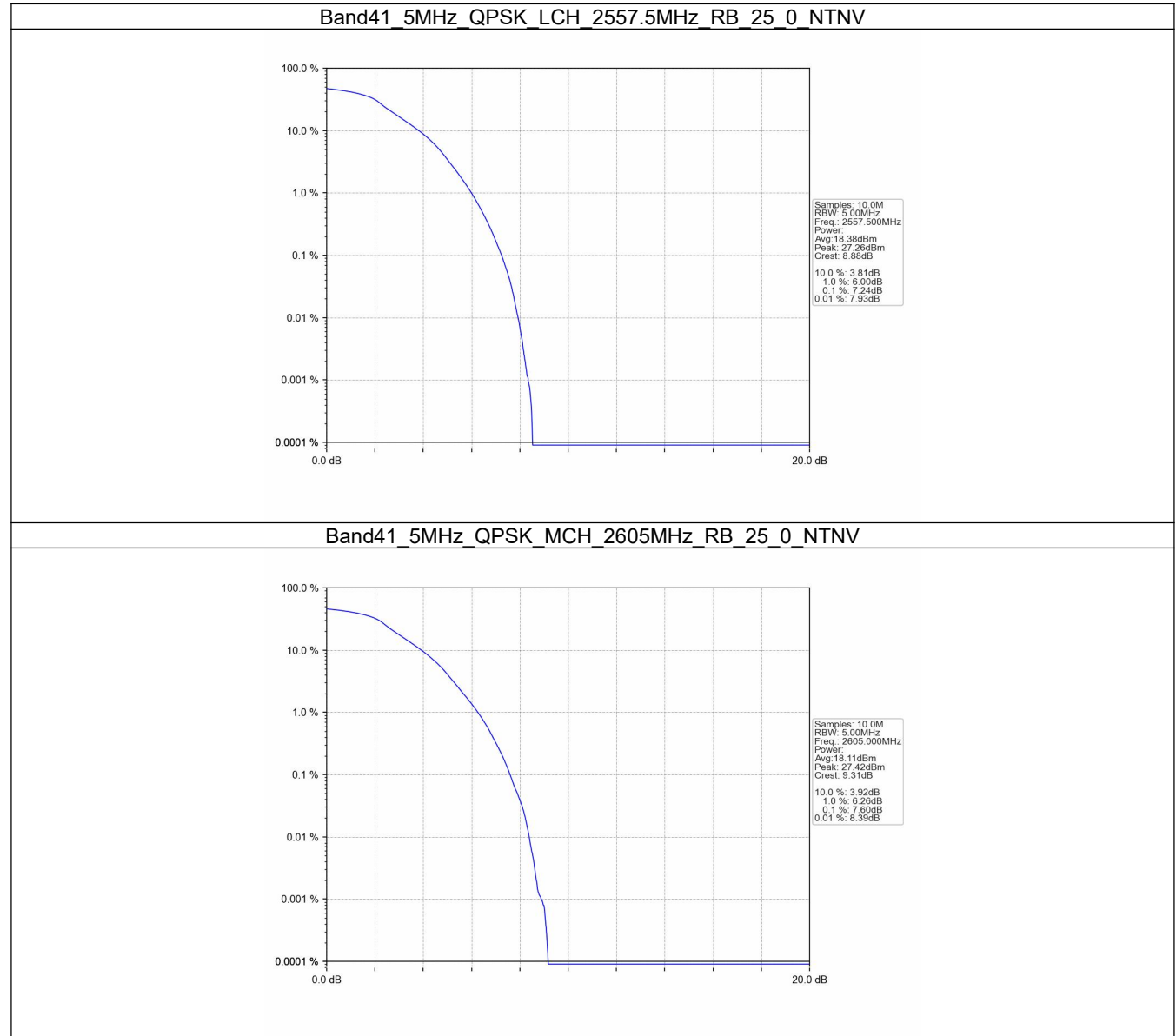
Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2562.5	75	0	7.22	<=13	Pass
	2605	75	0	7.30	<=13	Pass
	2647.5	75	0	6.98	<=13	Pass
16QAM	2562.5	75	0	8.05	<=13	Pass
	2605	75	0	8.16	<=13	Pass
	2647.5	75	0	8.20	<=13	Pass

5.1.4 B41_20MHz

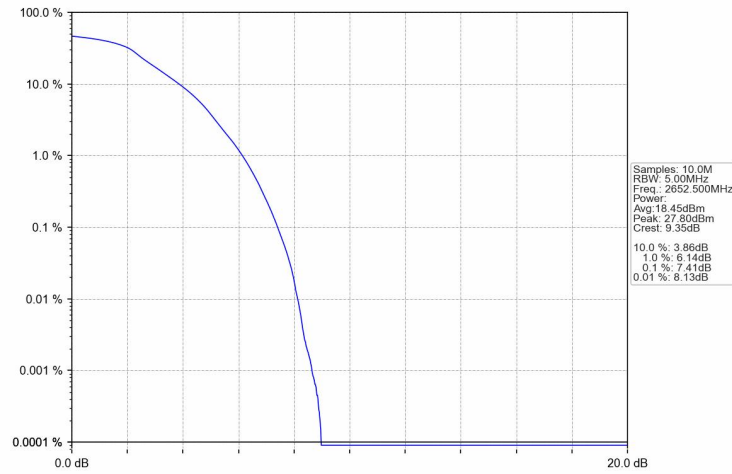
Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2565	100	0	7.74	<=13	Pass
	2605	100	0	7.74	<=13	Pass
	2645	100	0	7.70	<=13	Pass
16QAM	2565	100	0	8.52	<=13	Pass
	2605	100	0	8.44	<=13	Pass
	2645	100	0	8.45	<=13	Pass

5.2 Test Graph

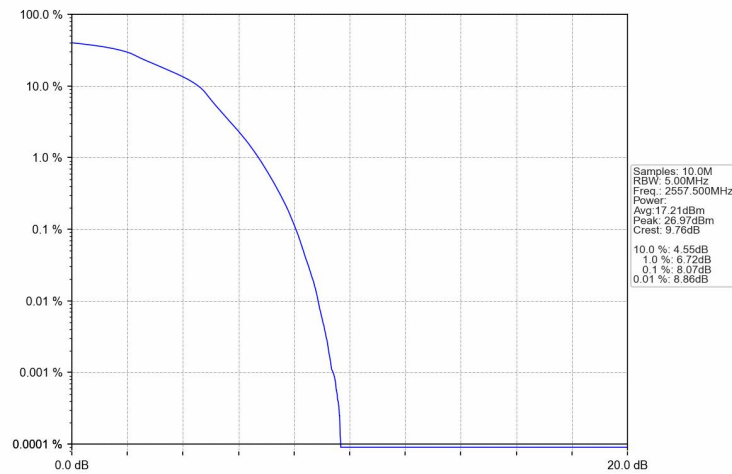
5.2.1 B41_5MHz



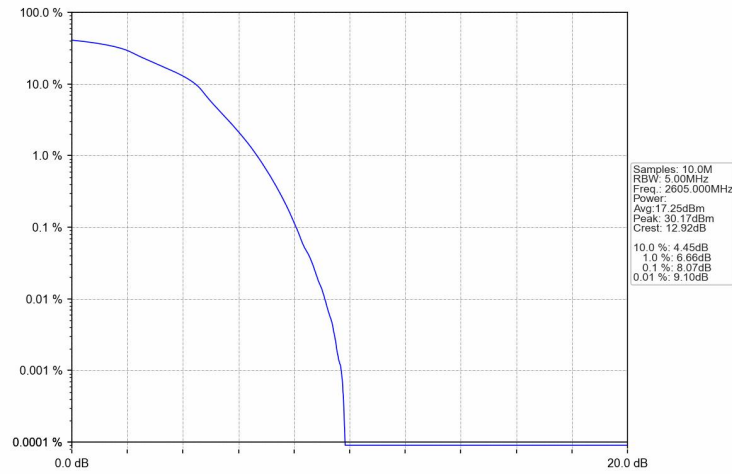
Band41_5MHz_QPSK_HCH_2652.5MHz_RB_25_0_NTNV



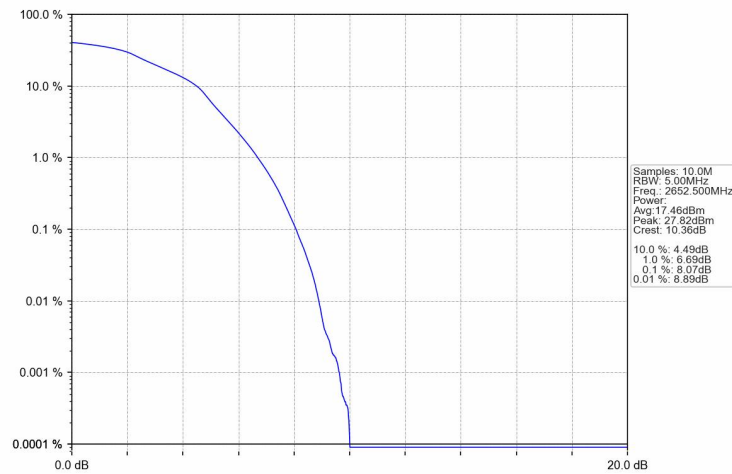
Band41_5MHz_16QAM_LCH_2557.5MHz_RB_25_0_NTNV



Band41_5MHz_16QAM_MCH_2605MHz_RB_25_0_NTNV

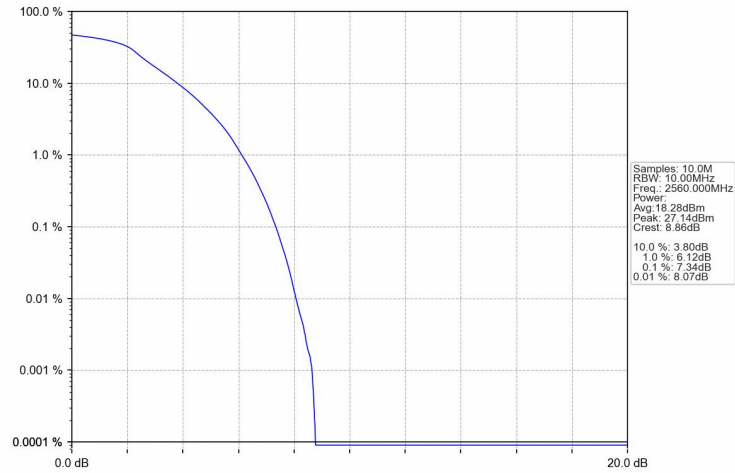


Band41_5MHz_16QAM_HCH_2652.5MHz_RB_25_0_NTNV

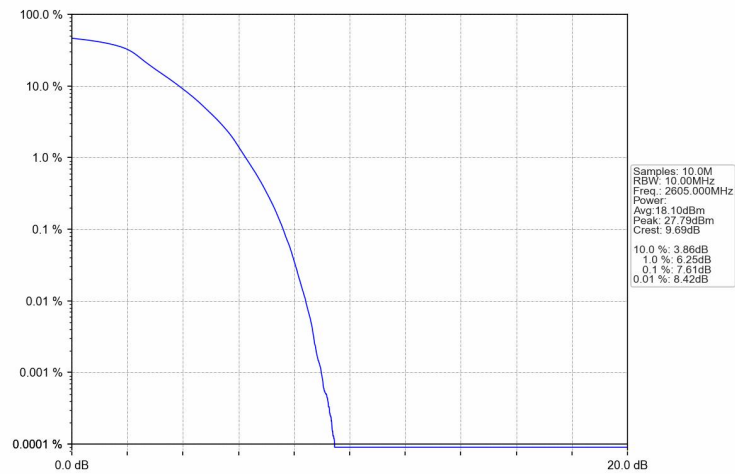


5.2.2 B41_10MHz

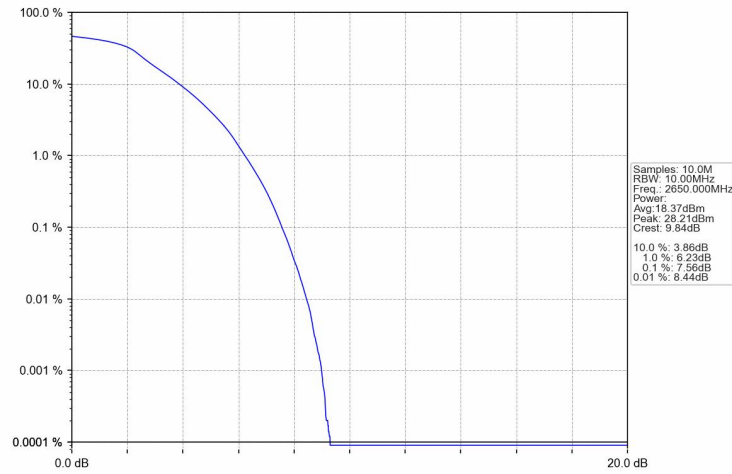
Band41_10MHz_QPSK_LCH_2560MHz_RB_50_0_NTNV



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

