

Appendix Test Data for LTE_band_7

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B7_5MHz_EIRP

Band: 7 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2502.5	1	0	22.23	2.10	24.33	<=33.01	Pass
			13	22.25	2.10	24.35	<=33.01	Pass
			24	22.29	2.10	24.39	<=33.01	Pass
		12	0	21.16	2.10	23.26	<=33.01	Pass
			6	21.17	2.10	23.27	<=33.01	Pass
			13	21.26	2.10	23.36	<=33.01	Pass
		25	0	21.18	2.10	23.28	<=33.01	Pass
	2535	1	0	21.99	2.10	24.09	<=33.01	Pass
			13	21.95	2.10	24.05	<=33.01	Pass
			24	21.98	2.10	24.08	<=33.01	Pass
		12	0	21.51	2.10	23.61	<=33.01	Pass
			6	21.49	2.10	23.59	<=33.01	Pass
			13	21.51	2.10	23.61	<=33.01	Pass
		25	0	21.50	2.10	23.60	<=33.01	Pass
	2567.5	1	0	22.24	2.10	24.34	<=33.01	Pass
			13	22.29	2.10	24.39	<=33.01	Pass
			24	22.26	2.10	24.36	<=33.01	Pass
		12	0	21.62	2.10	23.72	<=33.01	Pass
			6	21.58	2.10	23.68	<=33.01	Pass
			13	21.58	2.10	23.68	<=33.01	Pass
		25	0	21.62	2.10	23.72	<=33.01	Pass
16QAM	2502.5	1	0	21.30	2.10	23.40	<=33.01	Pass
			13	21.28	2.10	23.38	<=33.01	Pass
			24	21.10	2.10	23.20	<=33.01	Pass
		12	0	20.19	2.10	22.29	<=33.01	Pass
			6	20.17	2.10	22.27	<=33.01	Pass
			13	20.24	2.10	22.34	<=33.01	Pass
		25	0	20.26	2.10	22.36	<=33.01	Pass
	2535	1	0	21.28	2.10	23.38	<=33.01	Pass
			13	21.25	2.10	23.35	<=33.01	Pass
			24	21.25	2.10	23.35	<=33.01	Pass
		12	0	20.53	2.10	22.63	<=33.01	Pass
			6	20.51	2.10	22.61	<=33.01	Pass
			13	20.53	2.10	22.63	<=33.01	Pass
		25	0	20.54	2.10	22.64	<=33.01	Pass
	2567.5	1	0	20.94	2.10	23.04	<=33.01	Pass
			13	20.94	2.10	23.04	<=33.01	Pass
			24	20.96	2.10	23.06	<=33.01	Pass
		12	0	20.65	2.10	22.75	<=33.01	Pass
			6	20.61	2.10	22.71	<=33.01	Pass
			13	20.60	2.10	22.70	<=33.01	Pass
		25	0	20.67	2.10	22.77	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B7_10MHz_EIRP

Band: 7 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	

QPSK	2505	1	0	21.63	2.10	23.73	<=33.01	Pass
			25	21.72	2.10	23.82	<=33.01	Pass
			49	21.73	2.10	23.83	<=33.01	Pass
		25	0	21.17	2.10	23.27	<=33.01	Pass
			13	21.25	2.10	23.35	<=33.01	Pass
			25	21.33	2.10	23.43	<=33.01	Pass
		50	0	21.25	2.10	23.35	<=33.01	Pass
	2535	1	0	21.85	2.10	23.95	<=33.01	Pass
			25	22.00	2.10	24.10	<=33.01	Pass
			49	21.98	2.10	24.08	<=33.01	Pass
		25	0	21.46	2.10	23.56	<=33.01	Pass
			13	21.51	2.10	23.61	<=33.01	Pass
			25	21.61	2.10	23.71	<=33.01	Pass
		50	0	21.56	2.10	23.66	<=33.01	Pass
	2565	1	0	22.03	2.10	24.13	<=33.01	Pass
			25	22.12	2.10	24.22	<=33.01	Pass
			49	22.16	2.10	24.26	<=33.01	Pass
		25	0	21.67	2.10	23.77	<=33.01	Pass
			13	21.59	2.10	23.69	<=33.01	Pass
			25	21.66	2.10	23.76	<=33.01	Pass
		50	0	21.68	2.10	23.78	<=33.01	Pass
16QAM	2505	1	0	20.66	2.10	22.76	<=33.01	Pass
			25	20.73	2.10	22.83	<=33.01	Pass
			49	20.76	2.10	22.86	<=33.01	Pass
		25	0	20.22	2.10	22.32	<=33.01	Pass
			13	20.32	2.10	22.42	<=33.01	Pass
			25	20.37	2.10	22.47	<=33.01	Pass
		50	0	20.26	2.10	22.36	<=33.01	Pass
	2535	1	0	21.08	2.10	23.18	<=33.01	Pass
			25	21.23	2.10	23.33	<=33.01	Pass
			49	21.20	2.10	23.30	<=33.01	Pass
		25	0	20.54	2.10	22.64	<=33.01	Pass
			13	20.56	2.10	22.66	<=33.01	Pass
			25	20.65	2.10	22.75	<=33.01	Pass
		50	0	20.57	2.10	22.67	<=33.01	Pass
	2565	1	0	21.52	2.10	23.62	<=33.01	Pass
			25	21.61	2.10	23.71	<=33.01	Pass
			49	21.57	2.10	23.67	<=33.01	Pass
		25	0	20.71	2.10	22.81	<=33.01	Pass
			13	20.67	2.10	22.77	<=33.01	Pass
			25	20.73	2.10	22.83	<=33.01	Pass
		50	0	20.65	2.10	22.75	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B7_15MHz_EIRP

Band: 7 / Bandwidth: 15MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2507.5	1	0	21.50	2.10	23.60	<=33.01	Pass
			38	21.64	2.10	23.74	<=33.01	Pass
			74	21.64	2.10	23.74	<=33.01	Pass
		36	0	21.12	2.10	23.22	<=33.01	Pass
			18	21.20	2.10	23.30	<=33.01	Pass
			39	21.28	2.10	23.38	<=33.01	Pass
		75	0	21.17	2.10	23.27	<=33.01	Pass
	2535	1	0	21.81	2.10	23.91	<=33.01	Pass
			38	22.00	2.10	24.10	<=33.01	Pass

16QAM	2562.5	36	74	21.92	2.10	24.02	<=33.01	Pass
			0	21.43	2.10	23.53	<=33.01	Pass
			18	21.47	2.10	23.57	<=33.01	Pass
			39	21.55	2.10	23.65	<=33.01	Pass
		75	0	21.43	2.10	23.53	<=33.01	Pass
			0	21.95	2.10	24.05	<=33.01	Pass
			38	22.09	2.10	24.19	<=33.01	Pass
			74	22.08	2.10	24.18	<=33.01	Pass
		36	0	21.55	2.10	23.65	<=33.01	Pass
			18	21.56	2.10	23.66	<=33.01	Pass
			39	21.58	2.10	23.68	<=33.01	Pass
			75	21.65	2.10	23.75	<=33.01	Pass
	2507.5	1	0	21.01	2.10	23.11	<=33.01	Pass
			38	21.13	2.10	23.23	<=33.01	Pass
			74	21.08	2.10	23.18	<=33.01	Pass
			0	20.09	2.10	22.19	<=33.01	Pass
		36	18	20.18	2.10	22.28	<=33.01	Pass
			39	20.28	2.10	22.38	<=33.01	Pass
			75	20.14	2.10	22.24	<=33.01	Pass
		75	0	21.00	2.10	23.10	<=33.01	Pass
			38	21.23	2.10	23.33	<=33.01	Pass
			74	21.20	2.10	23.30	<=33.01	Pass
			0	20.45	2.10	22.55	<=33.01	Pass
	2535	1	18	20.48	2.10	22.58	<=33.01	Pass
			39	20.56	2.10	22.66	<=33.01	Pass
			75	20.48	2.10	22.58	<=33.01	Pass
			0	21.45	2.10	23.55	<=33.01	Pass
		36	38	21.63	2.10	23.73	<=33.01	Pass
			74	21.54	2.10	23.64	<=33.01	Pass
			0	20.59	2.10	22.69	<=33.01	Pass
			18	20.60	2.10	22.70	<=33.01	Pass
		75	39	20.66	2.10	22.76	<=33.01	Pass
			0	20.64	2.10	22.74	<=33.01	Pass
			0	20.64	2.10	22.74	<=33.01	Pass
			0	20.64	2.10	22.74	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B7_20MHz_EIRP

Band: 7 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2510	1	0	21.48	2.10	23.58	<=33.01	Pass
			50	21.67	2.10	23.77	<=33.01	Pass
			99	21.72	2.10	23.82	<=33.01	Pass
		50	0	21.02	2.10	23.12	<=33.01	Pass
			25	21.23	2.10	23.33	<=33.01	Pass
			50	21.20	2.10	23.30	<=33.01	Pass
		100	0	21.15	2.10	23.25	<=33.01	Pass
			0	21.72	2.10	23.82	<=33.01	Pass
			50	21.96	2.10	24.06	<=33.01	Pass
		1	99	21.88	2.10	23.98	<=33.01	Pass
			0	21.46	2.10	23.56	<=33.01	Pass
			25	21.56	2.10	23.66	<=33.01	Pass
	2535	50	50	21.65	2.10	23.75	<=33.01	Pass
			0	21.57	2.10	23.67	<=33.01	Pass
			0	21.83	2.10	23.93	<=33.01	Pass
		1	50	22.08	2.10	24.18	<=33.01	Pass
			99	22.03	2.10	24.13	<=33.01	Pass
			0	21.71	2.10	23.81	<=33.01	Pass



16QAM	2510	100	25	21.64	2.10	23.74	<=33.01	Pass
			50	21.63	2.10	23.73	<=33.01	Pass
			0	21.64	2.10	23.74	<=33.01	Pass
		1	0	21.13	2.10	23.23	<=33.01	Pass
			50	21.32	2.10	23.42	<=33.01	Pass
			99	21.32	2.10	23.42	<=33.01	Pass
		50	0	19.97	2.10	22.07	<=33.01	Pass
			25	20.19	2.10	22.29	<=33.01	Pass
			50	20.23	2.10	22.33	<=33.01	Pass
		100	0	20.12	2.10	22.22	<=33.01	Pass
	2535	1	0	20.95	2.10	23.05	<=33.01	Pass
			50	21.24	2.10	23.34	<=33.01	Pass
			99	21.19	2.10	23.29	<=33.01	Pass
		50	0	20.46	2.10	22.56	<=33.01	Pass
			25	20.51	2.10	22.61	<=33.01	Pass
			50	20.64	2.10	22.74	<=33.01	Pass
		100	0	20.55	2.10	22.65	<=33.01	Pass
	2560	1	0	21.13	2.10	23.23	<=33.01	Pass
			50	21.37	2.10	23.47	<=33.01	Pass
			99	21.33	2.10	23.43	<=33.01	Pass
		50	0	20.69	2.10	22.79	<=33.01	Pass
			25	20.61	2.10	22.71	<=33.01	Pass
			50	20.56	2.10	22.66	<=33.01	Pass
		100	0	20.66	2.10	22.76	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2502.5	25	0	20	3.27	4.363	0.0017	-2.5 to 2.5	Pass
					3.85	-6.709	-0.0027	-2.5 to 2.5	Pass
					4.43	3.676	0.0015	-2.5 to 2.5	Pass
				-30	3.85	10.643	0.0043	-2.5 to 2.5	Pass
				-20	3.85	-9.885	-0.0040	-2.5 to 2.5	Pass
				-10	3.85	-2.303	-0.0009	-2.5 to 2.5	Pass
				0	3.85	24.662	0.0099	-2.5 to 2.5	Pass
				10	3.85	0.830	0.0003	-2.5 to 2.5	Pass
				30	3.85	-8.755	-0.0035	-2.5 to 2.5	Pass
				40	3.85	0.787	0.0003	-2.5 to 2.5	Pass
	2535	25	0	20	3.85	2.489	0.0010	-2.5 to 2.5	Pass
					3.27	-5.536	-0.0022	-2.5 to 2.5	Pass
					3.85	3.963	0.0016	-2.5 to 2.5	Pass
				-30	4.43	-6.180	-0.0024	-2.5 to 2.5	Pass
					3.85	1.302	0.0005	-2.5 to 2.5	Pass
					3.85	-1.817	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-13.189	-0.0052	-2.5 to 2.5	Pass
				0	3.85	-4.020	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-1.545	-0.0006	-2.5 to 2.5	Pass
				30	3.85	1.888	0.0007	-2.5 to 2.5	Pass
				40	3.85	-6.638	-0.0026	-2.5 to 2.5	Pass

				50	3.85	-5.136	-0.0020	-2.5 to 2.5	Pass
	2567.5	25	0	20	3.27	2.518	0.0010	-2.5 to 2.5	Pass
					3.85	0.286	0.0001	-2.5 to 2.5	Pass
					4.43	3.777	0.0015	-2.5 to 2.5	Pass
					-30	3.85	-3.591	-0.0014	-2.5 to 2.5
				-20	3.85	-0.572	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	7.653	0.0030	-2.5 to 2.5	Pass
				0	3.85	6.509	0.0025	-2.5 to 2.5	Pass
				10	3.85	-1.130	-0.0004	-2.5 to 2.5	Pass
				30	3.85	1.116	0.0004	-2.5 to 2.5	Pass
				40	3.85	-3.920	-0.0015	-2.5 to 2.5	Pass
	50	3.85	-4.835	-0.0019	-2.5 to 2.5	Pass			
16QAM	2502.5	25	0	20	3.27	0.873	0.0003	-2.5 to 2.5	Pass
					3.85	3.419	0.0014	-2.5 to 2.5	Pass
					4.43	-5.951	-0.0024	-2.5 to 2.5	Pass
					-30	3.85	2.360	0.0009	-2.5 to 2.5
				-20	3.85	9.542	0.0038	-2.5 to 2.5	Pass
				-10	3.85	-3.004	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-9.212	-0.0037	-2.5 to 2.5	Pass
				10	3.85	0.730	0.0003	-2.5 to 2.5	Pass
				30	3.85	4.277	0.0017	-2.5 to 2.5	Pass
				40	3.85	3.519	0.0014	-2.5 to 2.5	Pass
				50	3.85	-6.881	-0.0027	-2.5 to 2.5	Pass
	2535	25	0	20	3.27	-3.290	-0.0013	-2.5 to 2.5	Pass
					3.85	1.273	0.0005	-2.5 to 2.5	Pass
					4.43	-7.796	-0.0031	-2.5 to 2.5	Pass
					-30	3.85	-3.977	-0.0016	-2.5 to 2.5
				-20	3.85	-9.484	-0.0037	-2.5 to 2.5	Pass
				-10	3.85	-6.709	-0.0026	-2.5 to 2.5	Pass
				0	3.85	-3.133	-0.0012	-2.5 to 2.5	Pass
				10	3.85	0.043	0.0000	-2.5 to 2.5	Pass
				30	3.85	-4.978	-0.0020	-2.5 to 2.5	Pass
				40	3.85	-0.758	-0.0003	-2.5 to 2.5	Pass
				50	3.85	-3.576	-0.0014	-2.5 to 2.5	Pass
	2567.5	25	0	20	3.27	-7.839	-0.0031	-2.5 to 2.5	Pass
					3.85	-8.483	-0.0033	-2.5 to 2.5	Pass
					4.43	-1.731	-0.0007	-2.5 to 2.5	Pass
					-30	3.85	-10.014	-0.0039	-2.5 to 2.5
				-20	3.85	-3.548	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	-3.948	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-8.841	-0.0034	-2.5 to 2.5	Pass
				10	3.85	3.791	0.0015	-2.5 to 2.5	Pass
				30	3.85	3.948	0.0015	-2.5 to 2.5	Pass
				40	3.85	1.116	0.0004	-2.5 to 2.5	Pass
				50	3.85	-3.405	-0.0013	-2.5 to 2.5	Pass

2.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2505	50	0	20	3.27	-1.788	-0.0007	-2.5 to 2.5	Pass
					3.85	-7.968	-0.0032	-2.5 to 2.5	Pass
					4.43	-8.984	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-7.267	-0.0029	-2.5 to 2.5	Pass
				-20	3.85	-8.426	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	-8.941	-0.0036	-2.5 to 2.5	Pass
				0	3.85	-6.022	-0.0024	-2.5 to 2.5	Pass

				10	3.85	-6.166	-0.0025	-2.5 to 2.5	Pass
				30	3.85	-4.106	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-1.016	-0.0004	-2.5 to 2.5	Pass
				50	3.85	-1.717	-0.0007	-2.5 to 2.5	Pass
	2535	50	0	20	3.27	-1.616	-0.0006	-2.5 to 2.5	Pass
					3.85	-4.134	-0.0016	-2.5 to 2.5	Pass
					4.43	-2.131	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-4.263	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-7.281	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	-4.063	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-2.775	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-8.140	-0.0032	-2.5 to 2.5	Pass
				30	3.85	-8.712	-0.0034	-2.5 to 2.5	Pass
				40	3.85	2.875	0.0011	-2.5 to 2.5	Pass
				50	3.85	-5.722	-0.0023	-2.5 to 2.5	Pass
	2565	50	0	20	3.27	-11.673	-0.0046	-2.5 to 2.5	Pass
					3.85	1.016	0.0004	-2.5 to 2.5	Pass
					4.43	-2.475	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-11.630	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-4.907	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-2.160	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-5.693	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-4.792	-0.0019	-2.5 to 2.5	Pass
				30	3.85	-0.072	0.0000	-2.5 to 2.5	Pass
				40	3.85	-2.031	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-4.449	-0.0017	-2.5 to 2.5	Pass
16QAM	2505	50	0	20	3.27	-2.632	-0.0011	-2.5 to 2.5	Pass
					3.85	-4.663	-0.0019	-2.5 to 2.5	Pass
					4.43	-5.550	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	1.001	0.0004	-2.5 to 2.5	Pass
				-20	3.85	-3.247	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	4.063	0.0016	-2.5 to 2.5	Pass
				0	3.85	-1.416	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.801	-0.0003	-2.5 to 2.5	Pass
				30	3.85	-6.337	-0.0025	-2.5 to 2.5	Pass
				40	3.85	1.945	0.0008	-2.5 to 2.5	Pass
				50	3.85	4.020	0.0016	-2.5 to 2.5	Pass
	2535	50	0	20	3.27	-1.359	-0.0005	-2.5 to 2.5	Pass
					3.85	-4.334	-0.0017	-2.5 to 2.5	Pass
					4.43	-2.661	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-1.960	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-5.908	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	0.329	0.0001	-2.5 to 2.5	Pass
				0	3.85	-4.020	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-6.580	-0.0026	-2.5 to 2.5	Pass
				30	3.85	2.575	0.0010	-2.5 to 2.5	Pass
				40	3.85	-1.144	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-4.177	-0.0016	-2.5 to 2.5	Pass
	2565	50	0	20	3.27	-1.502	-0.0006	-2.5 to 2.5	Pass
					3.85	-1.588	-0.0006	-2.5 to 2.5	Pass
					4.43	-0.229	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-3.290	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	1.159	0.0005	-2.5 to 2.5	Pass
				-10	3.85	-6.108	-0.0024	-2.5 to 2.5	Pass
				0	3.85	-4.549	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-4.363	-0.0017	-2.5 to 2.5	Pass
				30	3.85	-2.918	-0.0011	-2.5 to 2.5	Pass
				40	3.85	4.735	0.0018	-2.5 to 2.5	Pass
				50	3.85	-0.343	-0.0001	-2.5 to 2.5	Pass

2.1.3 B7_15MHz

Band: 7 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2507.5	75	0	20	3.27	-6.838	-0.0027	-2.5 to 2.5	Pass
					3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
					4.43	1.931	0.0008	-2.5 to 2.5	Pass
				-30	3.85	1.059	0.0004	-2.5 to 2.5	Pass
					3.85	0.186	0.0001	-2.5 to 2.5	Pass
					3.85	-0.172	-0.0001	-2.5 to 2.5	Pass
				0	3.85	4.635	0.0018	-2.5 to 2.5	Pass
					3.85	3.376	0.0013	-2.5 to 2.5	Pass
					3.85	-0.157	-0.0001	-2.5 to 2.5	Pass
				40	3.85	4.463	0.0018	-2.5 to 2.5	Pass
					3.85	3.419	0.0014	-2.5 to 2.5	Pass
					3.85	3.419	0.0014	-2.5 to 2.5	Pass
	2535	75	0	20	3.27	1.903	0.0008	-2.5 to 2.5	Pass
					3.85	1.316	0.0005	-2.5 to 2.5	Pass
					4.43	-1.616	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	2.990	0.0012	-2.5 to 2.5	Pass
					3.85	2.775	0.0011	-2.5 to 2.5	Pass
					3.85	5.236	0.0021	-2.5 to 2.5	Pass
				0	3.85	3.333	0.0013	-2.5 to 2.5	Pass
					3.85	1.173	0.0005	-2.5 to 2.5	Pass
					3.85	0.515	0.0002	-2.5 to 2.5	Pass
				40	3.85	3.662	0.0014	-2.5 to 2.5	Pass
					3.85	-0.272	-0.0001	-2.5 to 2.5	Pass
					3.85	-0.272	-0.0001	-2.5 to 2.5	Pass
	2562.5	75	0	20	3.27	-0.772	-0.0003	-2.5 to 2.5	Pass
					3.85	1.159	0.0005	-2.5 to 2.5	Pass
					4.43	-9.356	-0.0037	-2.5 to 2.5	Pass
				-30	3.85	-7.968	-0.0031	-2.5 to 2.5	Pass
					3.85	-1.588	-0.0006	-2.5 to 2.5	Pass
					3.85	-5.679	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-3.247	-0.0013	-2.5 to 2.5	Pass
					3.85	3.862	0.0015	-2.5 to 2.5	Pass
					3.85	0.257	0.0001	-2.5 to 2.5	Pass
				40	3.85	2.604	0.0010	-2.5 to 2.5	Pass
					3.85	-1.016	-0.0004	-2.5 to 2.5	Pass
					3.85	-1.016	-0.0004	-2.5 to 2.5	Pass
16QAM	2507.5	75	0	20	3.27	5.937	0.0024	-2.5 to 2.5	Pass
					3.85	3.662	0.0015	-2.5 to 2.5	Pass
					4.43	4.764	0.0019	-2.5 to 2.5	Pass
				-30	3.85	-3.176	-0.0013	-2.5 to 2.5	Pass
					3.85	-2.117	-0.0008	-2.5 to 2.5	Pass
					3.85	4.506	0.0018	-2.5 to 2.5	Pass
				0	3.85	1.416	0.0006	-2.5 to 2.5	Pass
					3.85	-3.805	-0.0015	-2.5 to 2.5	Pass
					3.85	1.717	0.0007	-2.5 to 2.5	Pass
				40	3.85	-0.229	-0.0001	-2.5 to 2.5	Pass
					3.85	-0.901	-0.0004	-2.5 to 2.5	Pass
					3.85	-0.901	-0.0004	-2.5 to 2.5	Pass
	2535	75	0	20	3.27	-4.020	-0.0016	-2.5 to 2.5	Pass
					3.85	-4.106	-0.0016	-2.5 to 2.5	Pass
					4.43	0.114	0.0000	-2.5 to 2.5	Pass
				-30	3.85	-1.173	-0.0005	-2.5 to 2.5	Pass
					3.85	-3.176	-0.0013	-2.5 to 2.5	Pass
					3.85	-2.203	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-1.988	-0.0008	-2.5 to 2.5	Pass
					3.85	-3.948	-0.0016	-2.5 to 2.5	Pass

	2562.5	75	0	30	3.85	-0.701	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-6.552	-0.0026	-2.5 to 2.5	Pass
				50	3.85	-4.263	-0.0017	-2.5 to 2.5	Pass
				20	3.27	1.845	0.0007	-2.5 to 2.5	Pass
					3.85	0.501	0.0002	-2.5 to 2.5	Pass
					4.43	-2.046	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-7.524	-0.0029	-2.5 to 2.5	Pass
				-20	3.85	-2.918	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-1.144	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-4.663	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-3.920	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-4.921	-0.0019	-2.5 to 2.5	Pass
				40	3.85	-2.747	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-5.779	-0.0023	-2.5 to 2.5	Pass

2.1.4 B7_20MHz

Band: 7 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2510	100	0	20	3.27	0.129	0.0001	-2.5 to 2.5	Pass
					3.85	0.629	0.0003	-2.5 to 2.5	Pass
					4.43	-8.497	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	2.217	0.0009	-2.5 to 2.5	Pass
				-20	3.85	4.091	0.0016	-2.5 to 2.5	Pass
				-10	3.85	0.930	0.0004	-2.5 to 2.5	Pass
				0	3.85	2.275	0.0009	-2.5 to 2.5	Pass
				10	3.85	3.905	0.0016	-2.5 to 2.5	Pass
				30	3.85	2.646	0.0011	-2.5 to 2.5	Pass
				40	3.85	3.533	0.0014	-2.5 to 2.5	Pass
				50	3.85	0.873	0.0003	-2.5 to 2.5	Pass
	2535	100	0	20	3.27	-1.388	-0.0005	-2.5 to 2.5	Pass
					3.85	-5.336	-0.0021	-2.5 to 2.5	Pass
					4.43	0.229	0.0001	-2.5 to 2.5	Pass
				-30	3.85	2.360	0.0009	-2.5 to 2.5	Pass
				-20	3.85	-3.462	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	-1.388	-0.0005	-2.5 to 2.5	Pass
				0	3.85	-5.794	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-3.734	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-2.661	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-6.380	-0.0025	-2.5 to 2.5	Pass
				50	3.85	-5.493	-0.0022	-2.5 to 2.5	Pass
	2560	100	0	20	3.27	-2.375	-0.0009	-2.5 to 2.5	Pass
					3.85	-2.117	-0.0008	-2.5 to 2.5	Pass
					4.43	0.901	0.0004	-2.5 to 2.5	Pass
				-30	3.85	-4.034	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	0.114	0.0000	-2.5 to 2.5	Pass
				-10	3.85	0.429	0.0002	-2.5 to 2.5	Pass
				0	3.85	-2.275	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-3.848	-0.0015	-2.5 to 2.5	Pass
				30	3.85	1.116	0.0004	-2.5 to 2.5	Pass
				40	3.85	-3.147	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-2.460	-0.0010	-2.5 to 2.5	Pass
16QAM	2510	100	0	20	3.27	1.187	0.0005	-2.5 to 2.5	Pass
					3.85	-3.862	-0.0015	-2.5 to 2.5	Pass
					4.43	1.845	0.0007	-2.5 to 2.5	Pass
				-30	3.85	-1.302	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-4.992	-0.0020	-2.5 to 2.5	Pass

				-10	3.85	-2.890	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-2.246	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-0.515	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-0.272	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.701	-0.0003	-2.5 to 2.5	Pass
				50	3.85	-1.173	-0.0005	-2.5 to 2.5	Pass
	2535	100	0	20	3.27	-4.463	-0.0018	-2.5 to 2.5	Pass
					3.85	-0.458	-0.0002	-2.5 to 2.5	Pass
					4.43	0.973	0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.887	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-2.232	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-4.148	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-6.580	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-8.426	-0.0033	-2.5 to 2.5	Pass
				30	3.85	-5.994	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-4.778	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-3.834	-0.0015	-2.5 to 2.5	Pass
	2560	100	0	20	3.27	1.359	0.0005	-2.5 to 2.5	Pass
					3.85	-3.233	-0.0013	-2.5 to 2.5	Pass
					4.43	-5.894	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	-8.240	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	-7.625	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-5.322	-0.0021	-2.5 to 2.5	Pass
				0	3.85	-4.992	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-4.148	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-4.535	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-6.452	-0.0025	-2.5 to 2.5	Pass
				50	3.85	-4.578	-0.0018	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	25	0	Refer To Test Graph		Pass
16QAM	2535	25	0	Refer To Test Graph		Pass

3.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	50	0	Refer To Test Graph		Pass
16QAM	2535	50	0	Refer To Test Graph		Pass

3.1.3 B7_15MHz

Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	

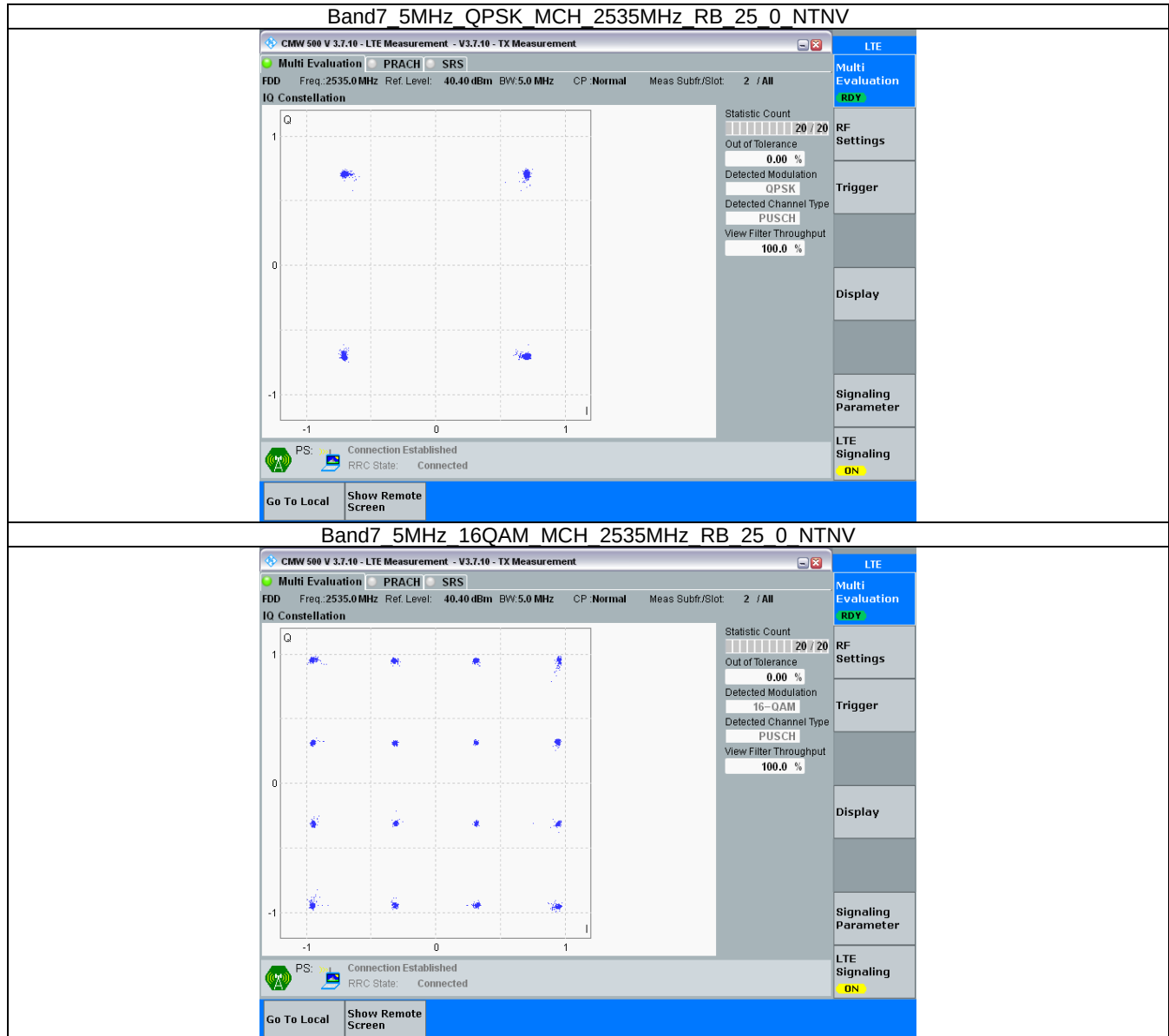
QPSK	2535	75	0	Refer To Test Graph	Pass
16QAM	2535	75	0	Refer To Test Graph	Pass

3.1.4 B7_20MHz

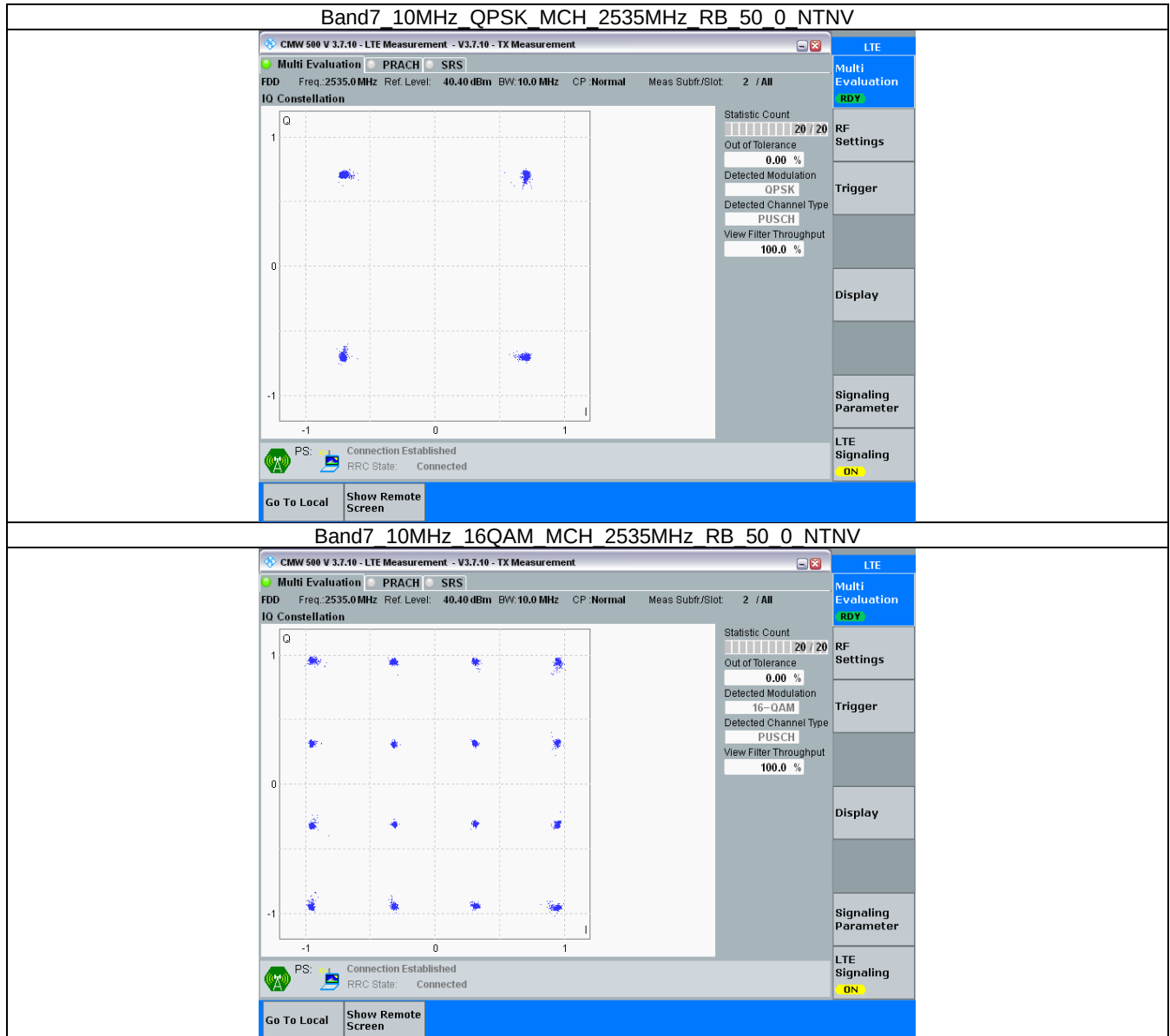
Band: 7 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	100	0	Refer To Test Graph		Pass
16QAM	2535	100	0	Refer To Test Graph		Pass

3.2 Test Graph

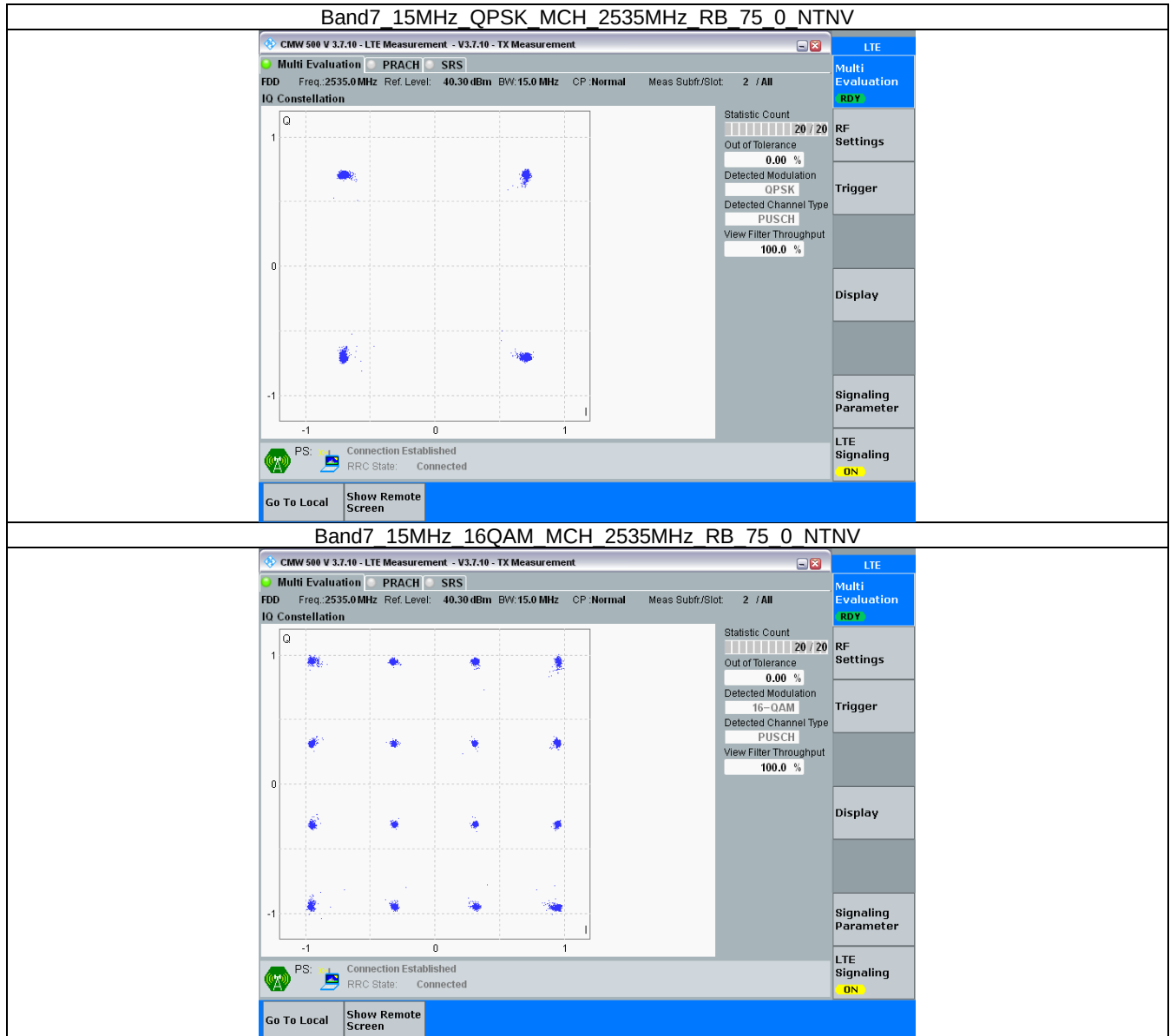
3.2.1 B7_5MHz



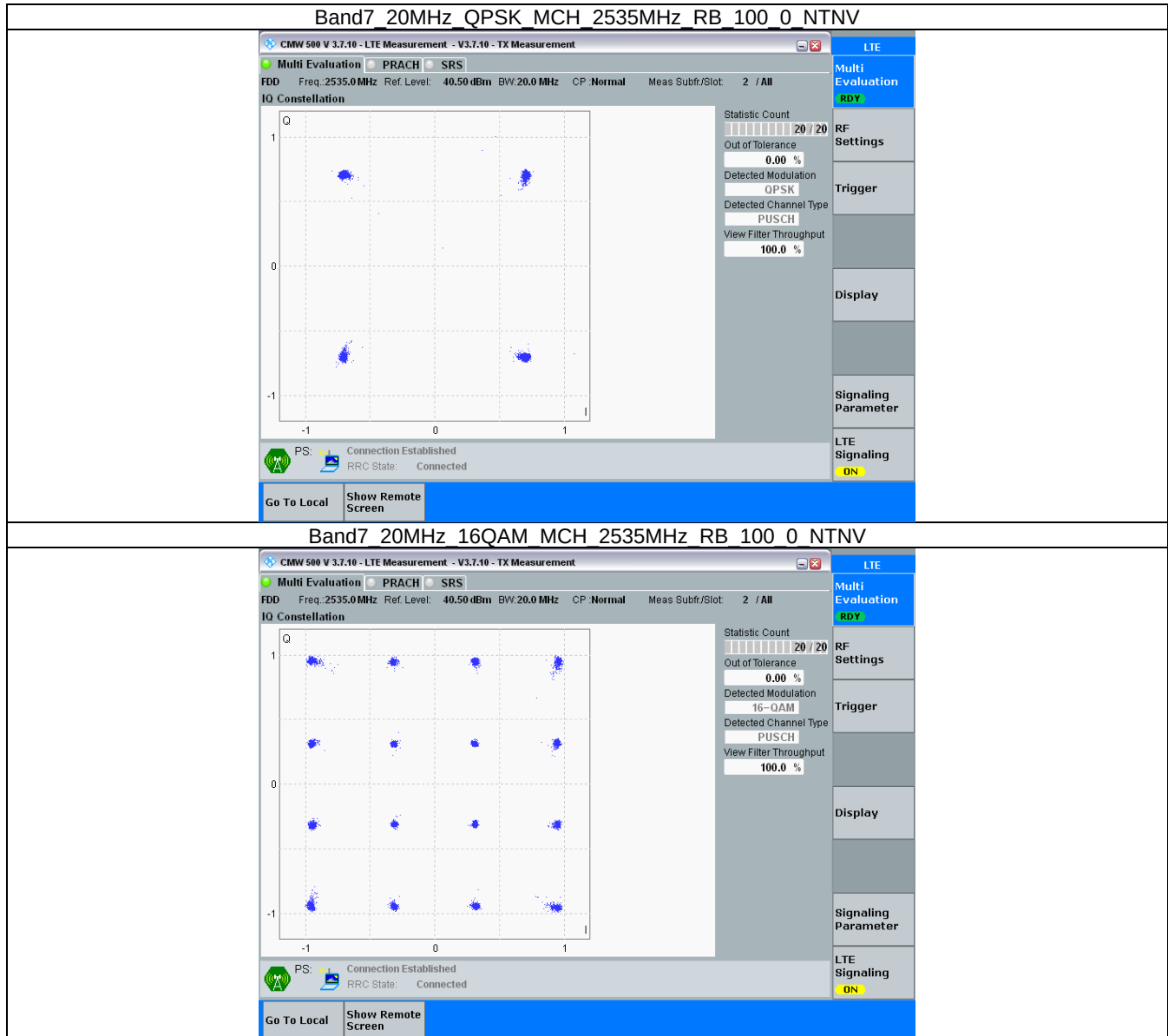
3.2.2 B7_10MHz



3.2.3 B7_15MHz



3.2.4 B7_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band7_OBW

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	4.546	/	Pass
		2535	25	0	4.556	/	Pass
		2567.5	25	0	4.557	/	Pass
	16QAM	2502.5	25	0	4.551	/	Pass
		2535	25	0	4.557	/	Pass
		2567.5	25	0	4.533	/	Pass
10	QPSK	2505	50	0	9.041	/	Pass
		2535	50	0	9.052	/	Pass
		2565	50	0	9.076	/	Pass
	16QAM	2505	50	0	9.042	/	Pass
		2535	50	0	9.051	/	Pass
		2565	50	0	9.074	/	Pass
15	QPSK	2507.5	75	0	13.566	/	Pass
		2535	75	0	13.585	/	Pass
		2562.5	75	0	13.606	/	Pass
	16QAM	2507.5	75	0	13.591	/	Pass
		2535	75	0	13.604	/	Pass
		2562.5	75	0	13.612	/	Pass
20	QPSK	2510	100	0	18.042	/	Pass
		2535	100	0	18.067	/	Pass
		2560	100	0	18.110	/	Pass
	16QAM	2510	100	0	18.047	/	Pass
		2535	100	0	18.113	/	Pass
		2560	100	0	18.147	/	Pass

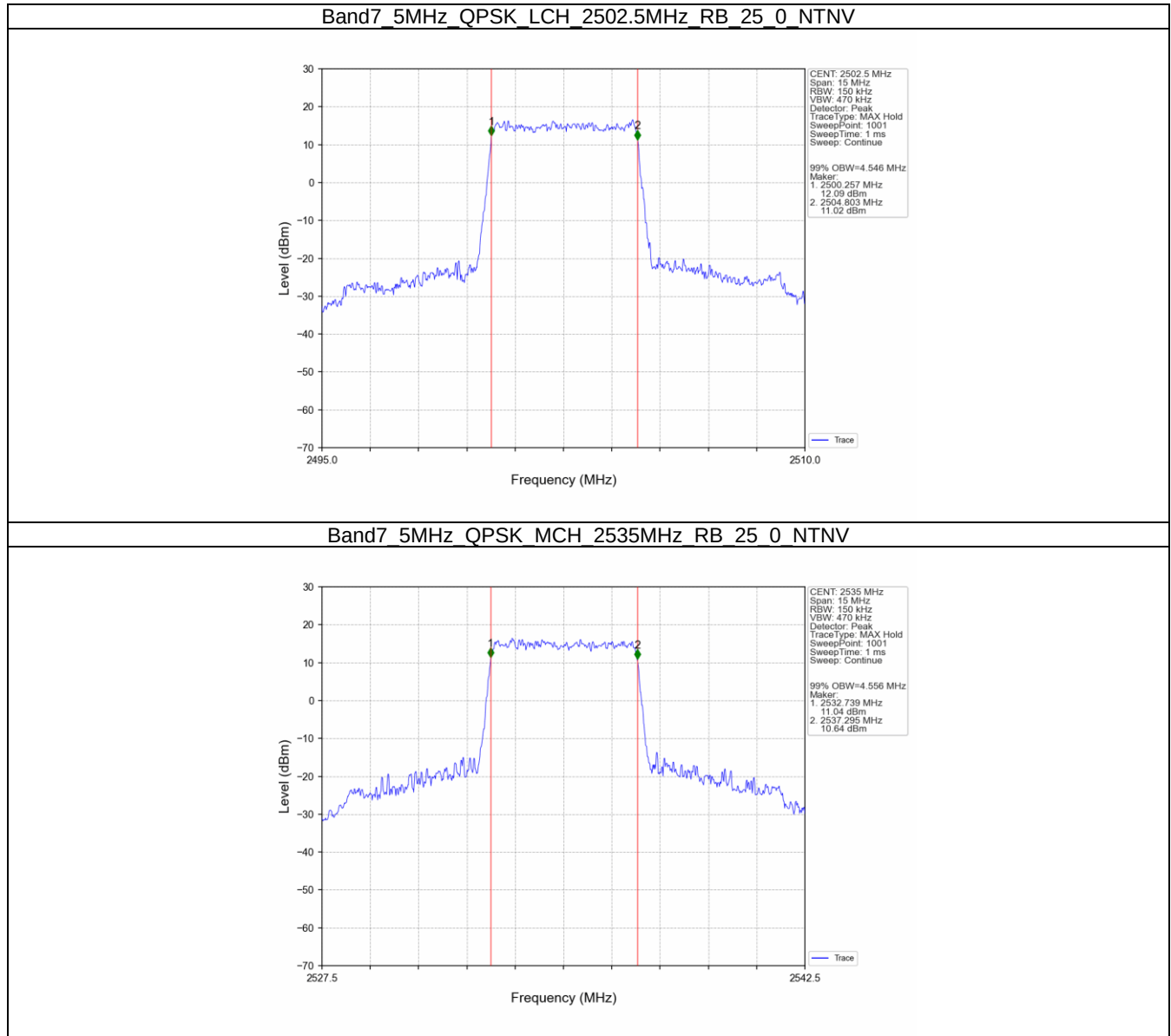
4.1.2 Band7_XDB

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	5.040	/	Pass
		2535	25	0	5.044	/	Pass
		2567.5	25	0	5.016	/	Pass
	16QAM	2502.5	25	0	5.062	/	Pass
		2535	25	0	5.045	/	Pass
		2567.5	25	0	5.029	/	Pass
10	QPSK	2505	50	0	9.974	/	Pass
		2535	50	0	9.979	/	Pass
		2565	50	0	9.962	/	Pass
	16QAM	2505	50	0	9.952	/	Pass
		2535	50	0	9.992	/	Pass
		2565	50	0	9.965	/	Pass
15	QPSK	2507.5	75	0	14.951	/	Pass
		2535	75	0	14.914	/	Pass
		2562.5	75	0	14.938	/	Pass

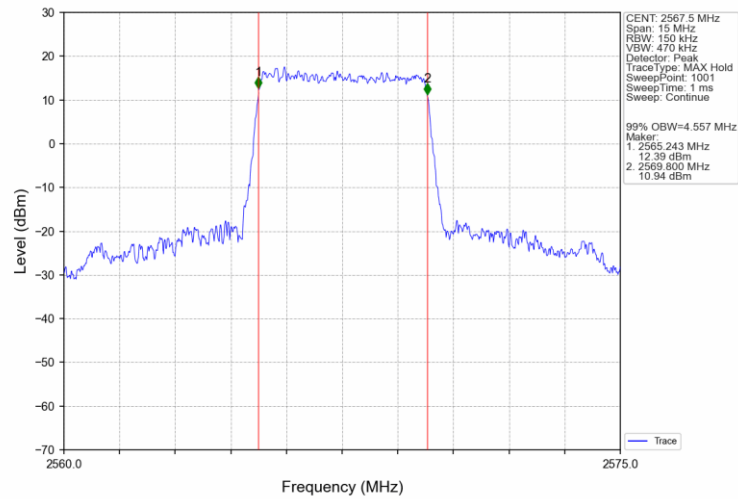
	16QAM	2507.5	75	0	14.937	/	Pass
		2535	75	0	14.946	/	Pass
		2562.5	75	0	14.949	/	Pass
20	QPSK	2510	100	0	19.729	/	Pass
		2535	100	0	19.878	/	Pass
		2560	100	0	19.587	/	Pass
	16QAM	2510	100	0	20.617	/	Pass
		2535	100	0	19.708	/	Pass
		2560	100	0	19.781	/	Pass

4.2 Test Graph

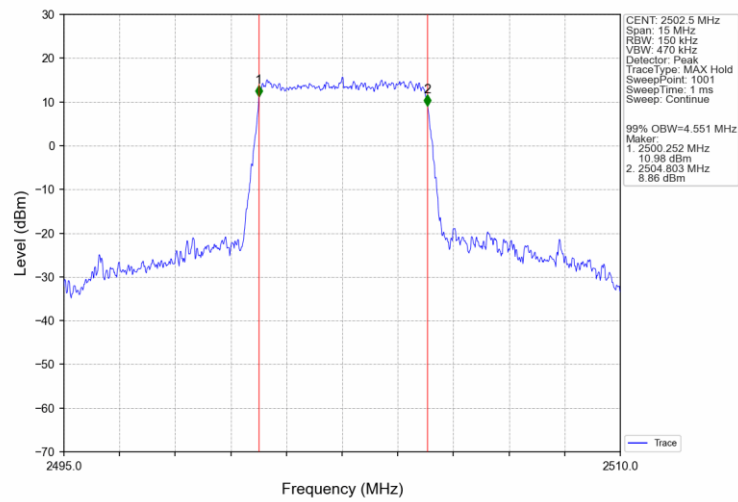
4.2.1 Band7_OBW



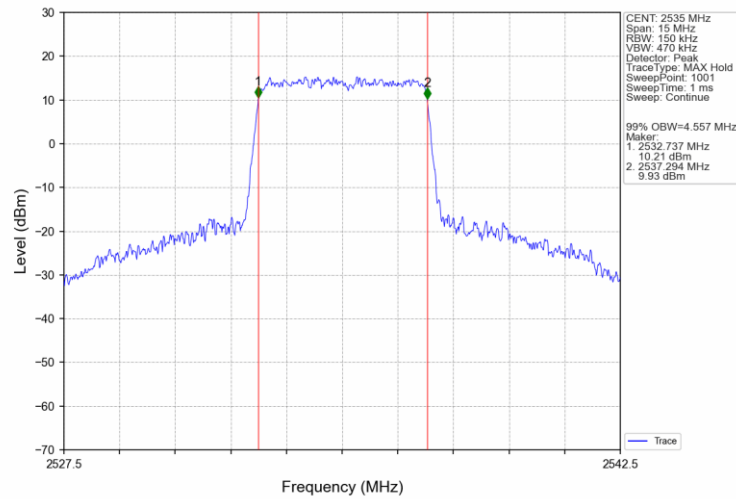
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



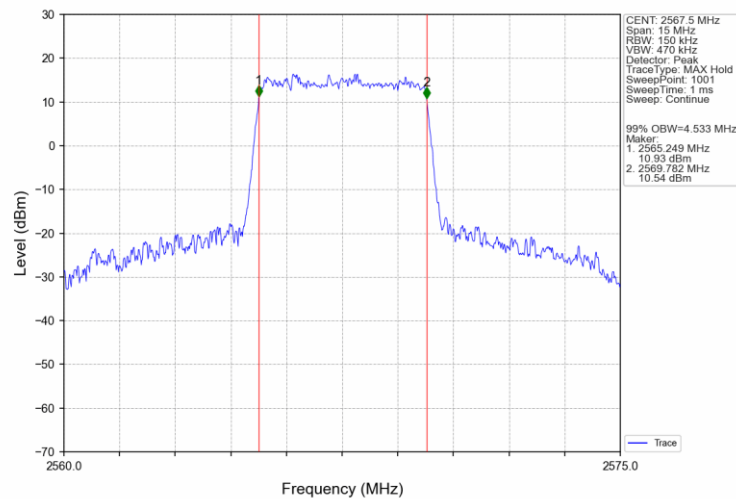
Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV



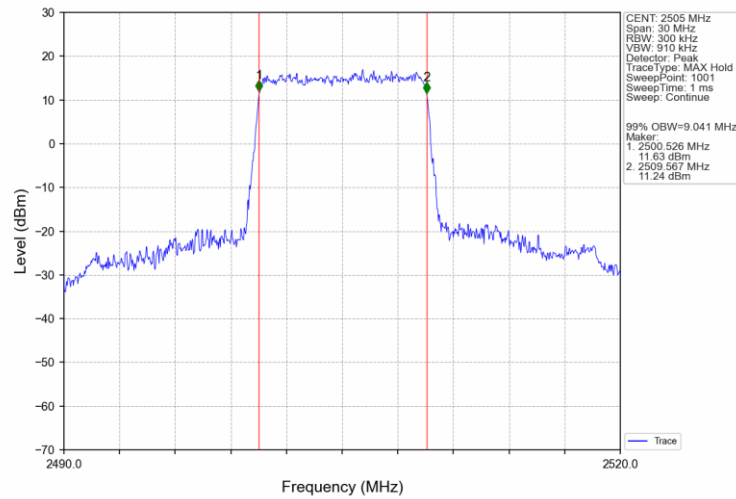
Band7_5MHz_16QAM_MCH_2535MHz_RB_25_0_NTNV



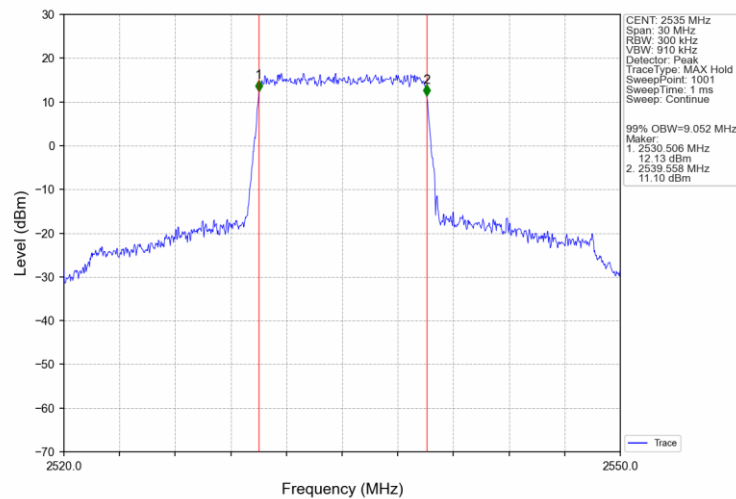
Band7_5MHz_16QAM_HCH_2567.5MHz_RB_25_0_NTNV



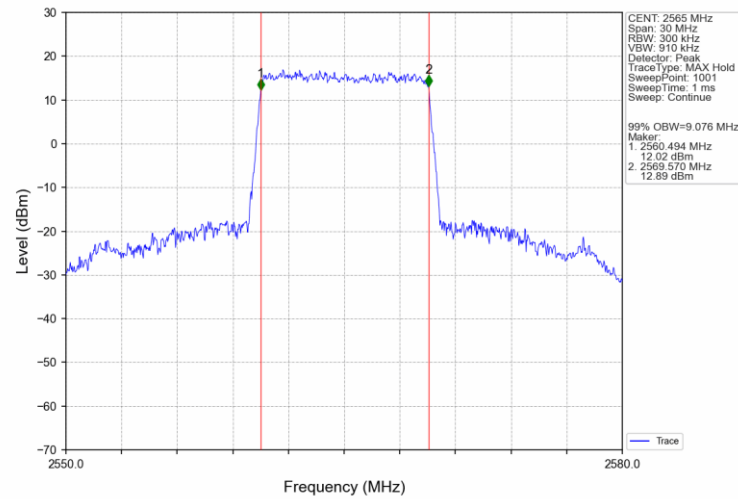
Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



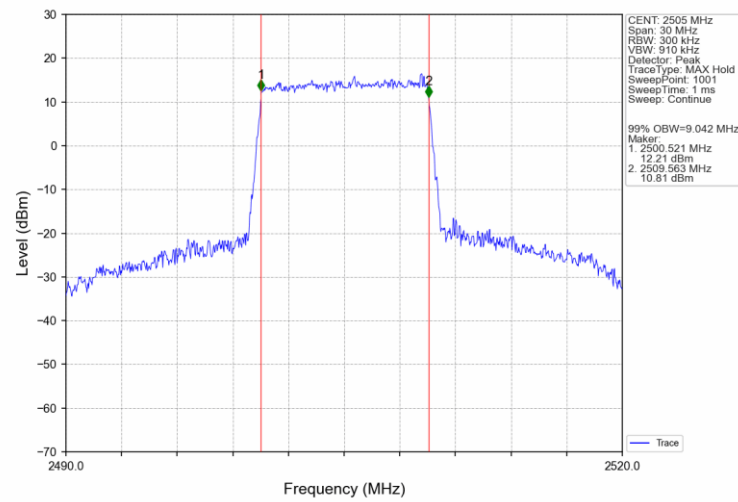
Band7_10MHz_QPSK_MCH_2535MHz_RB_50_0_NTNV



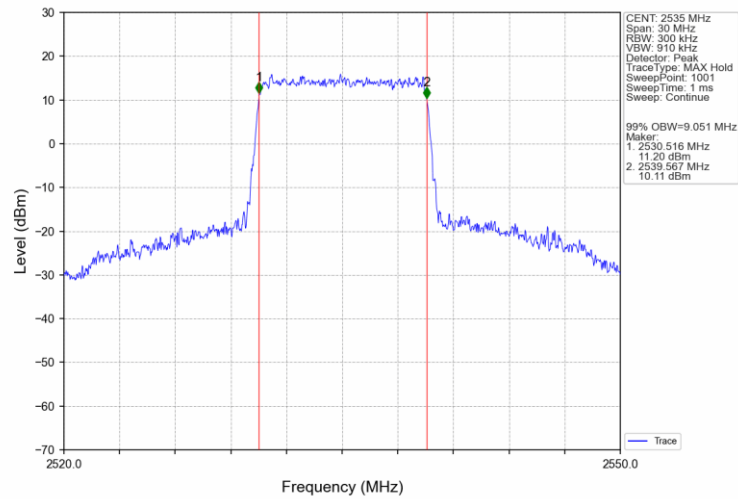
Band7_10MHz_QPSK_HCH_2565MHz_RB_50_0_NTNV



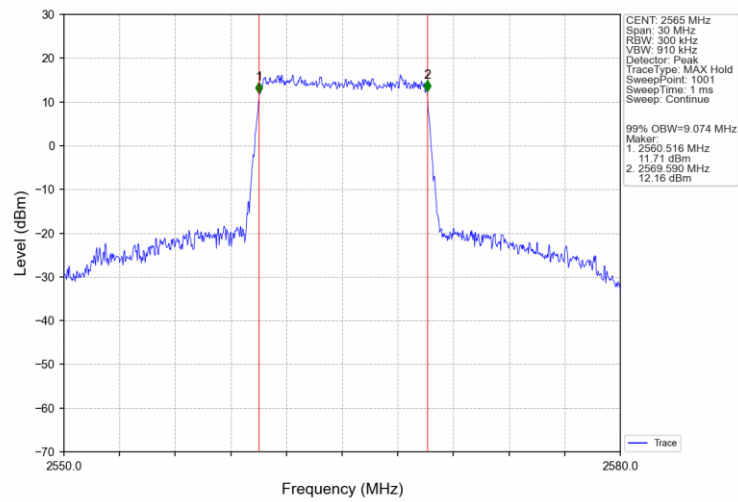
Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV



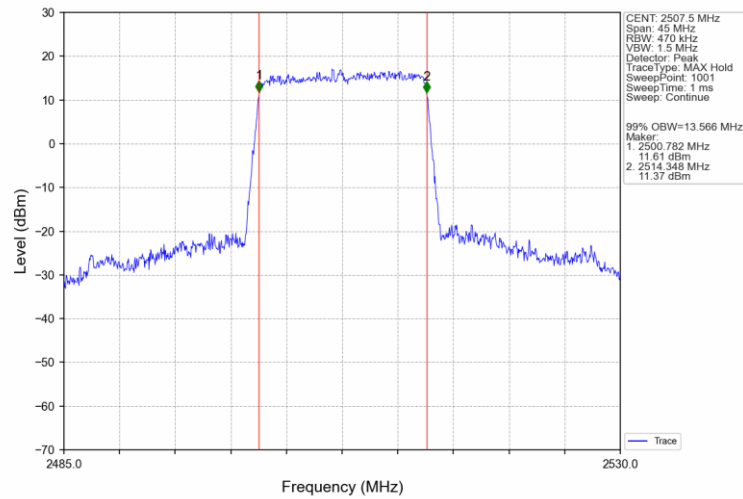
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



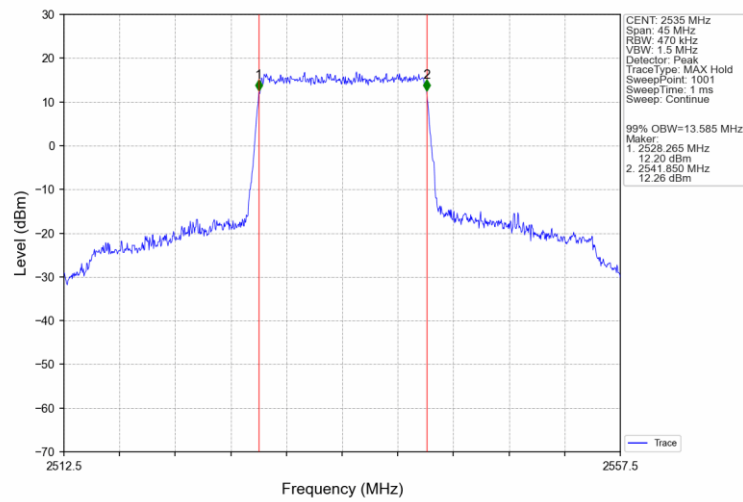
Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV



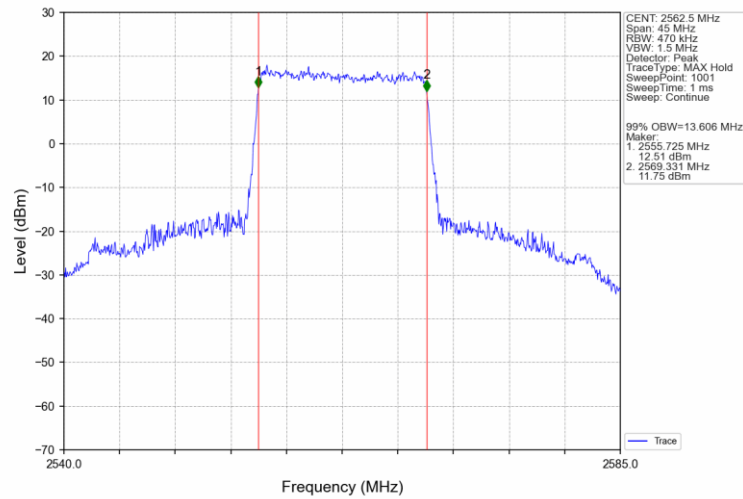
Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV



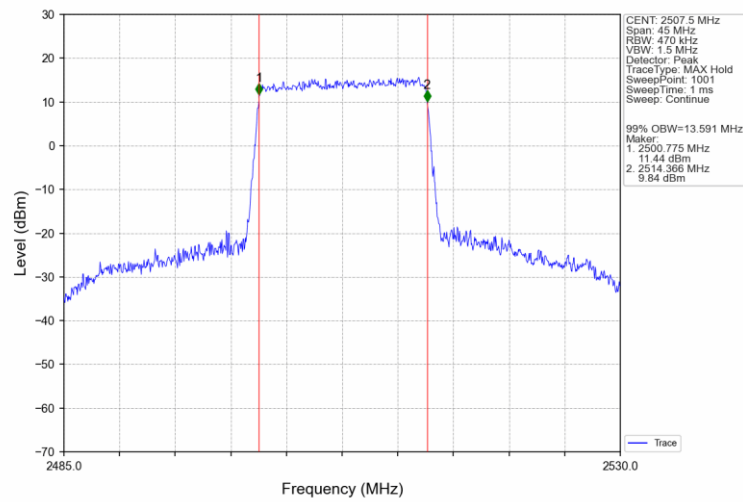
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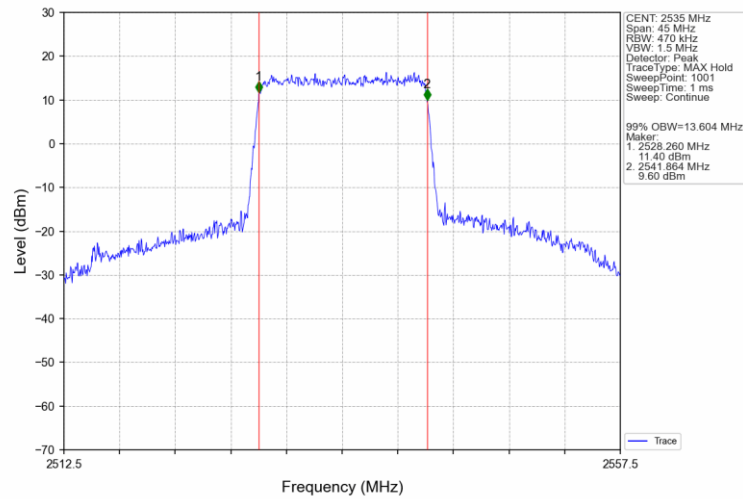
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_75_0_NTNV



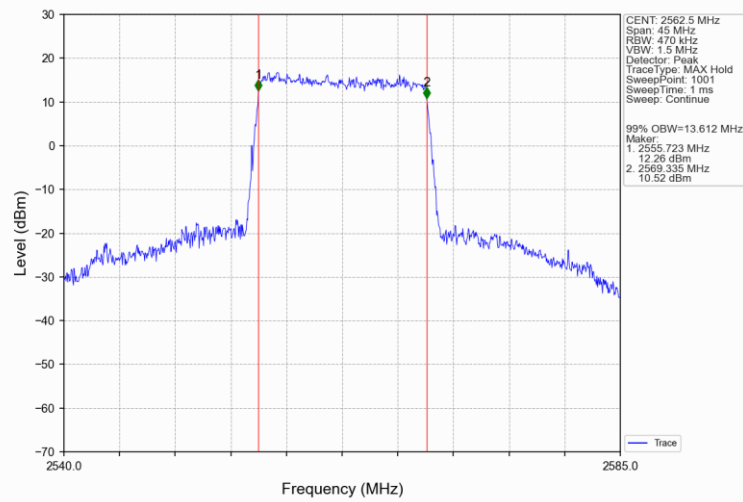
Band7_15MHz_16QAM_LCH_2507.5MHz_RB_75_0_NTNV



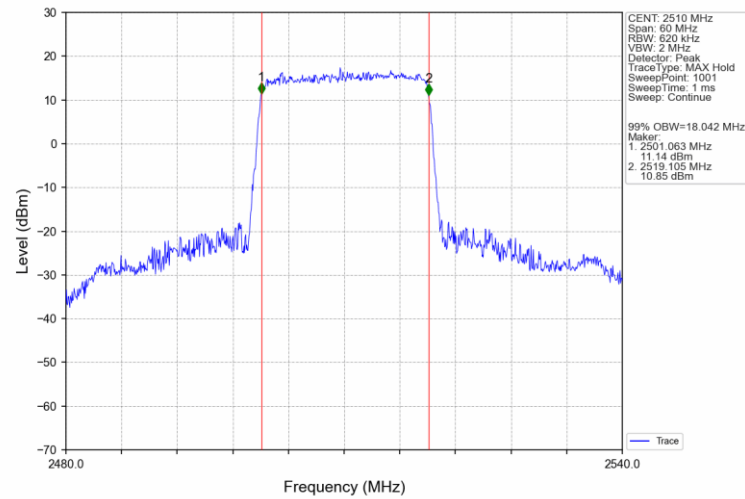
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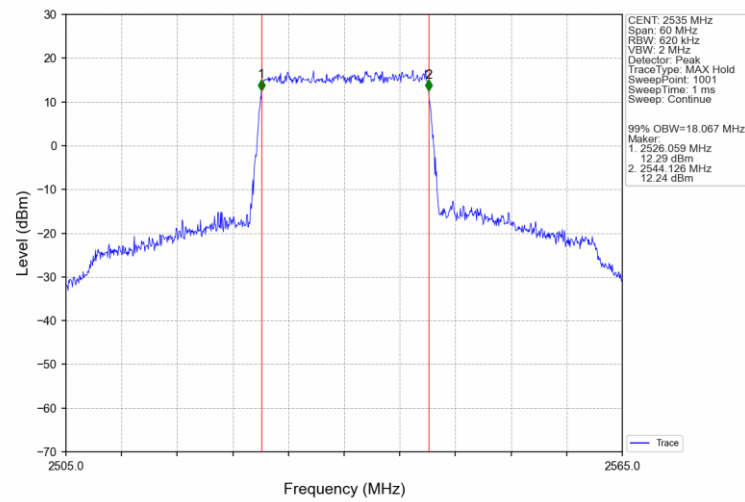
Band7_15MHz_16QAM_HCH_2562.5MHz_RB_75_0_NTNV



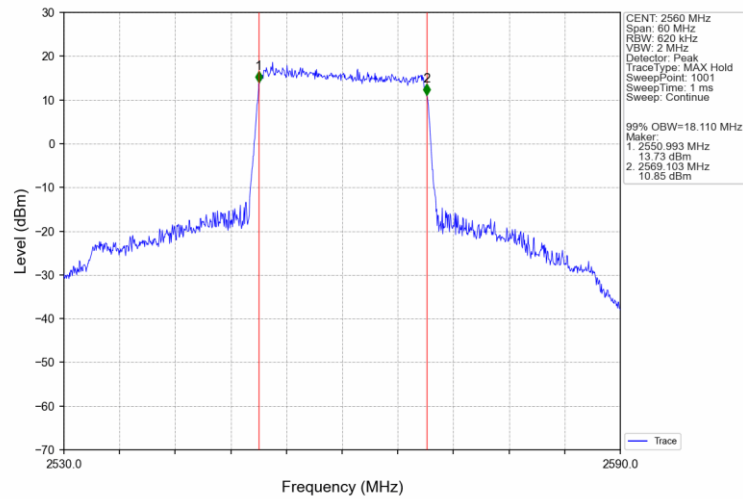
Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV



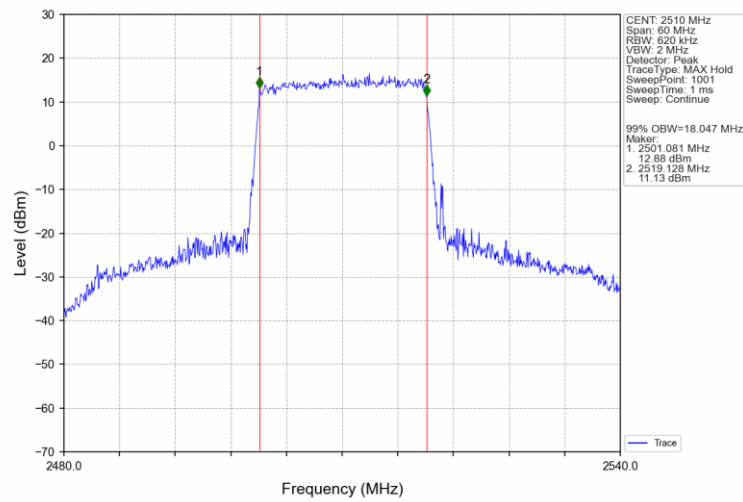
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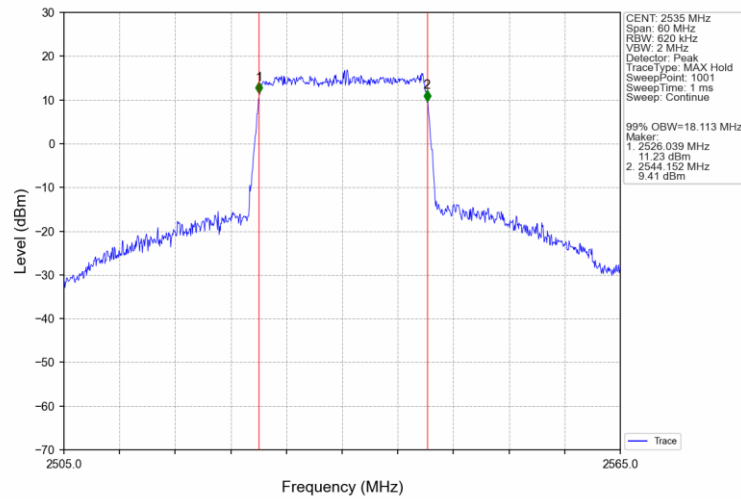
Band7_20MHz_QPSK_HCH_2560MHz_RB_100_0_NTNV



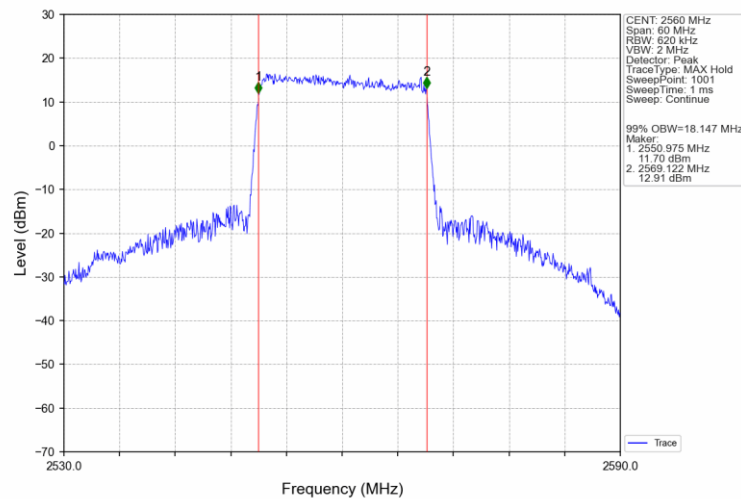
Band7_20MHz_16QAM_LCH_2510MHz_RB_100_0_NTNV



Band7_20MHz_16QAM_MCH_2535MHz_RB_100_0_NTNV

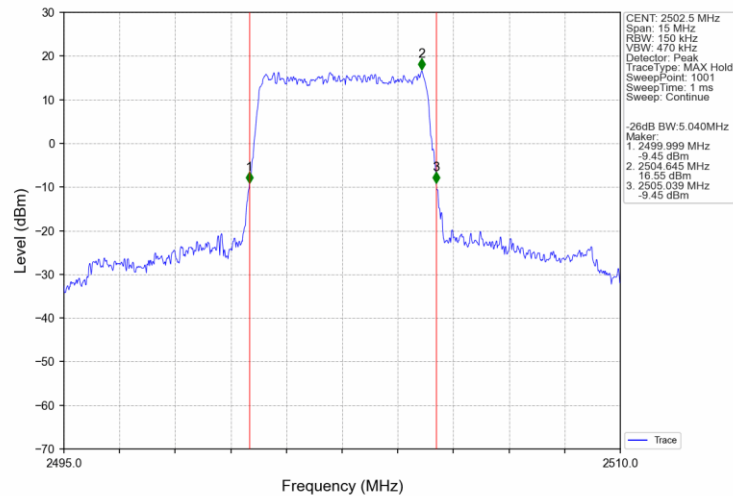


Band7_20MHz_16QAM_HCH_2560MHz_RB_100_0_NTNV

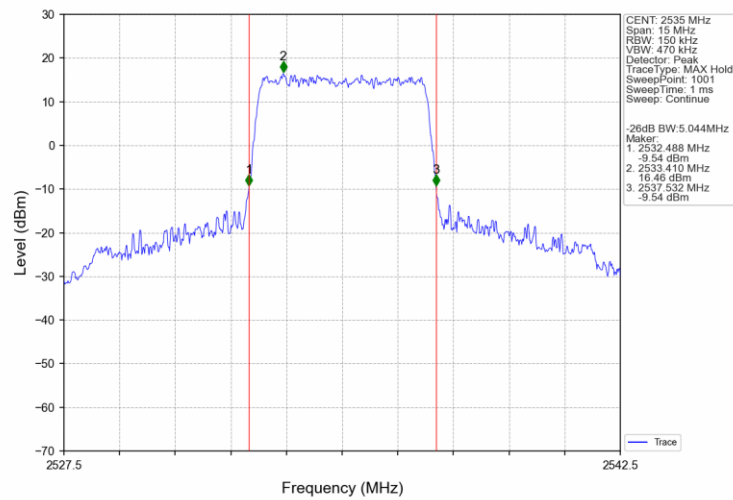


4.2.2 Band7_XDB

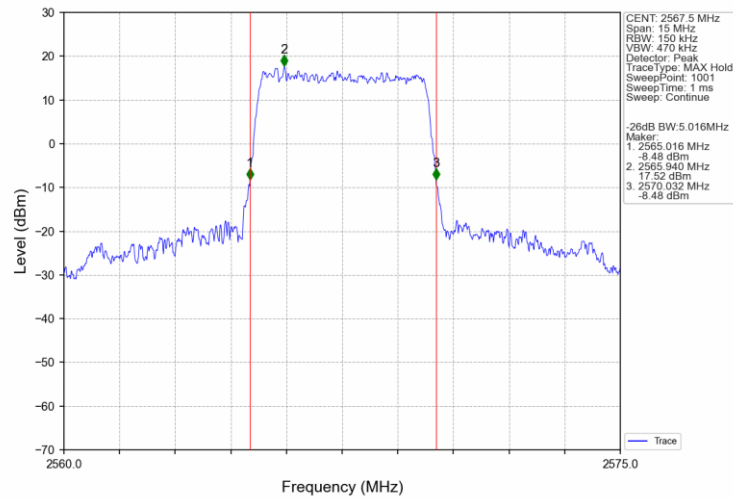
Band7 5MHz QPSK LCH 2502.5MHz RB 25 0 NTNV



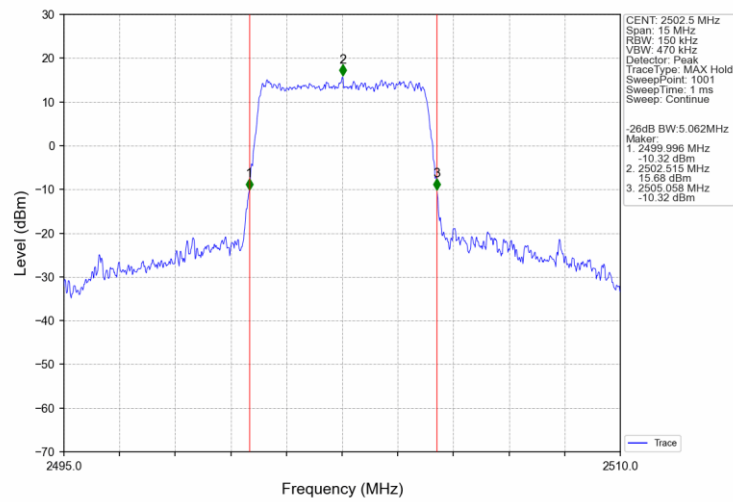
Band7 5MHz QPSK MCH 2535MHz RB 25 0 NTNV



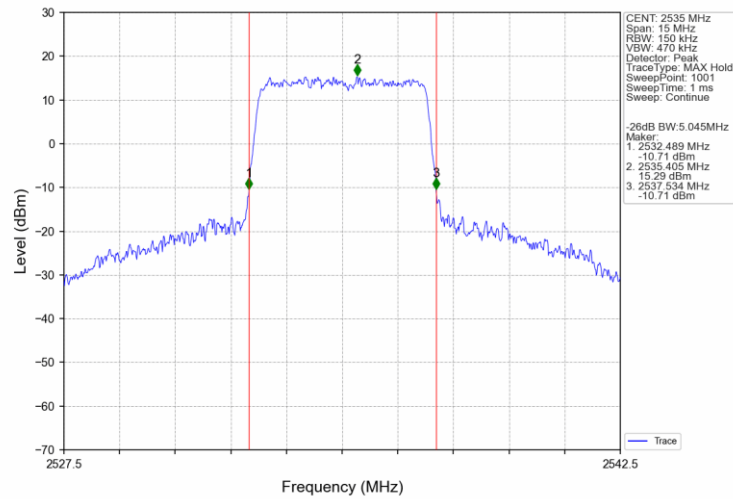
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



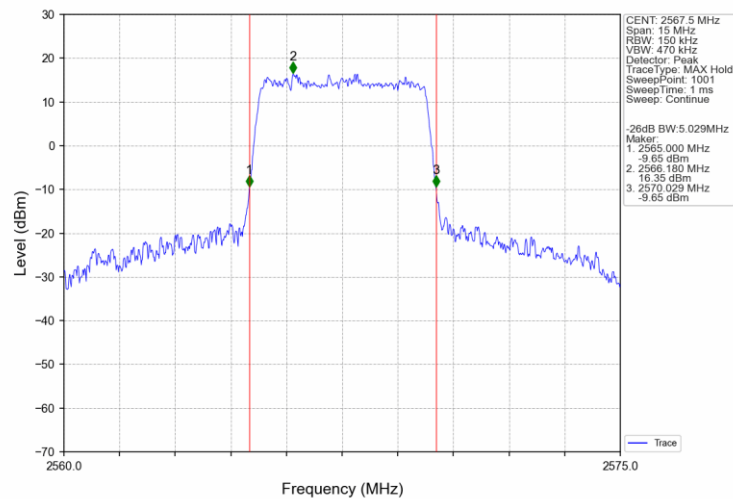
Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV



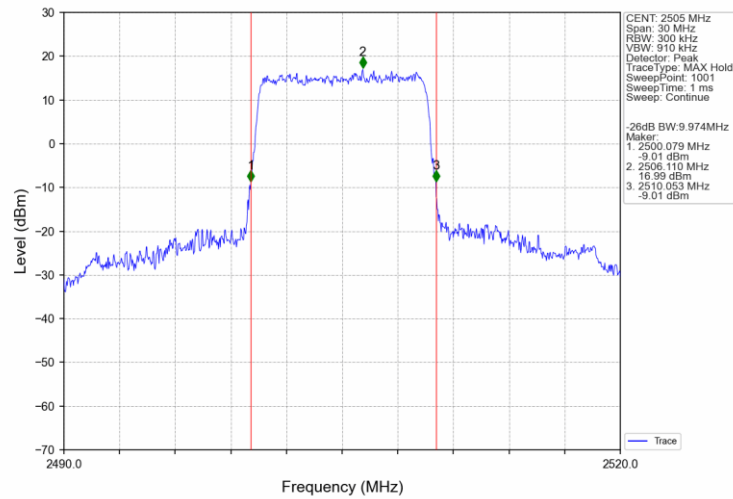
Band7_5MHz_16QAM_MCH_2535MHz_RB_25_0_NTNV



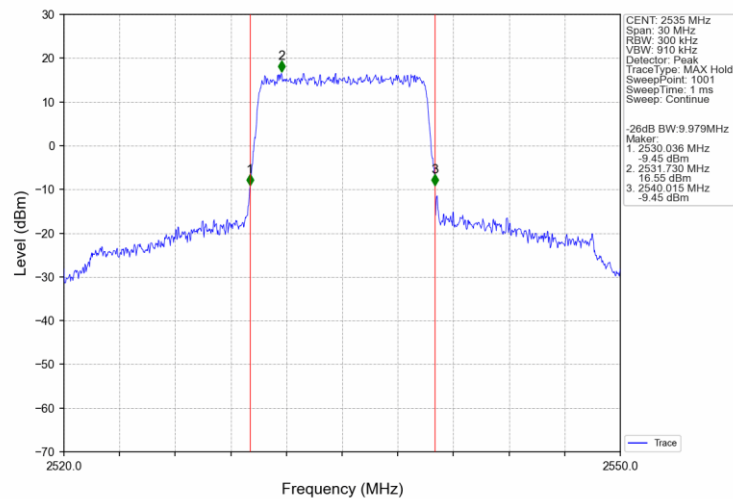
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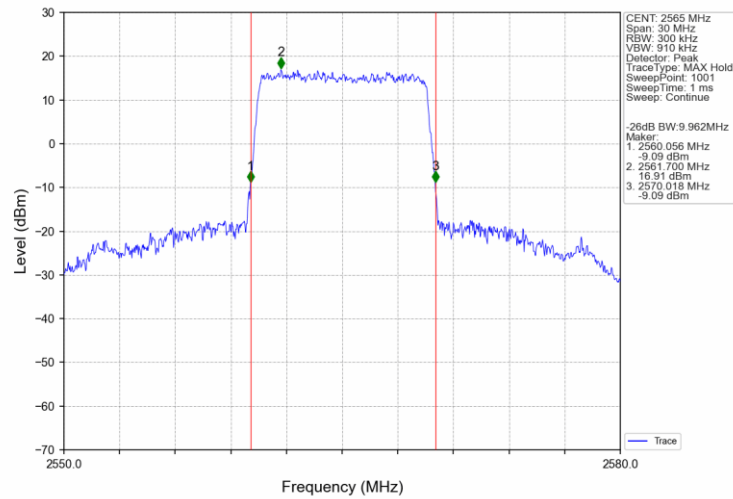
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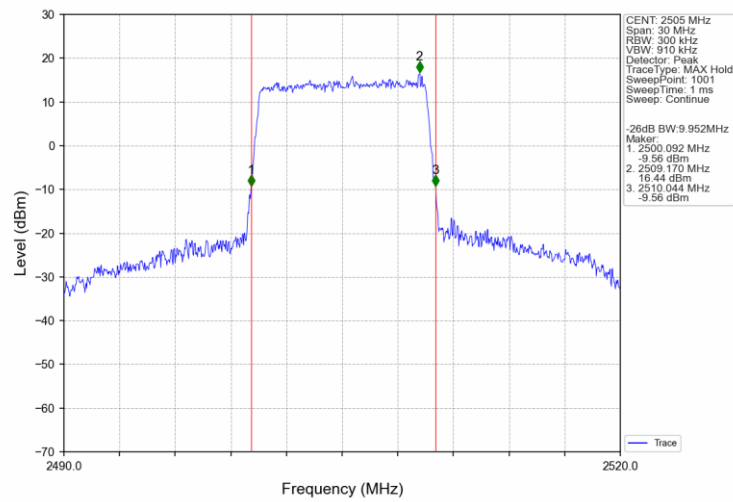
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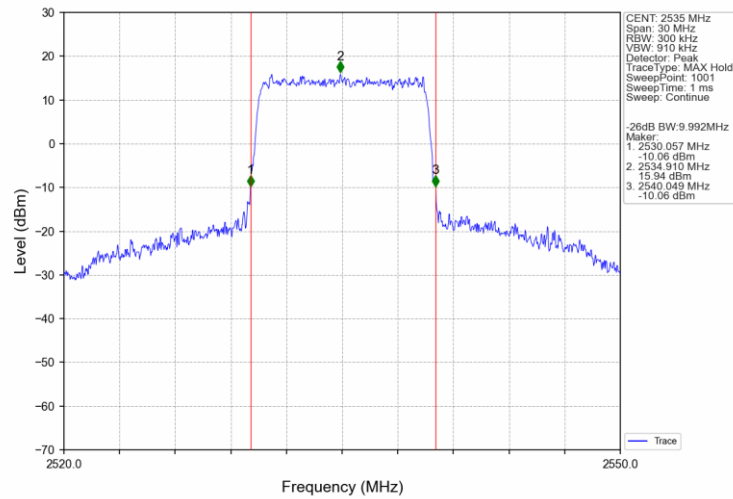
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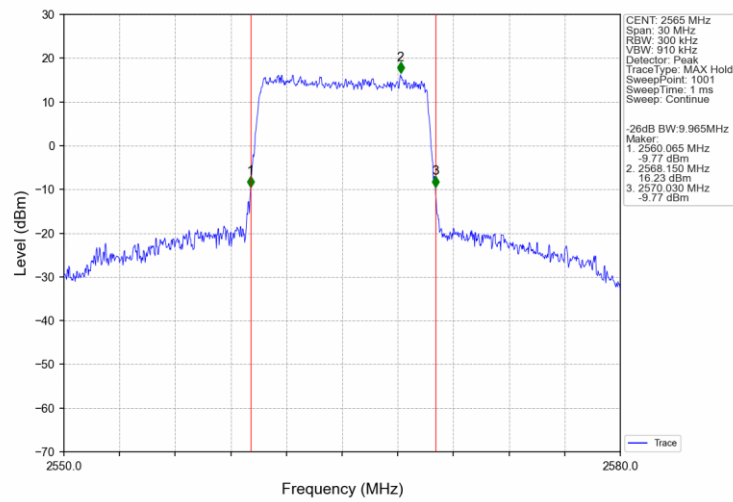
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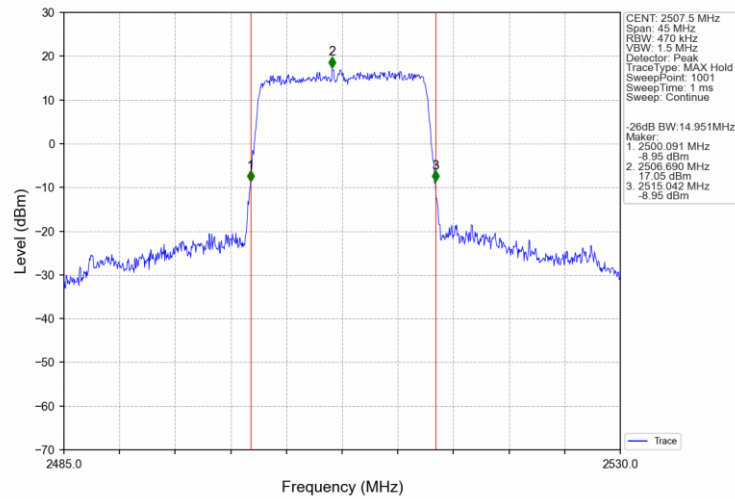
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



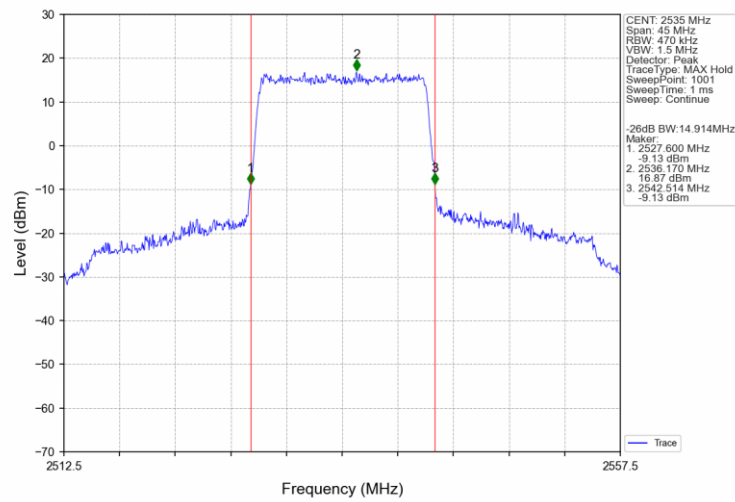
Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV



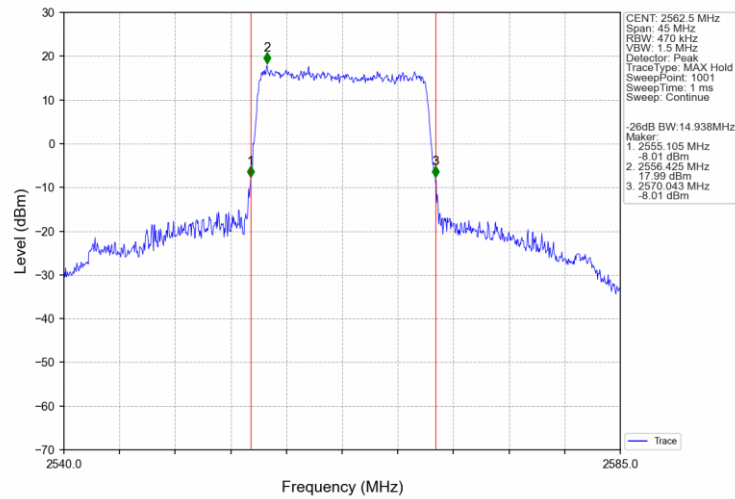
Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV



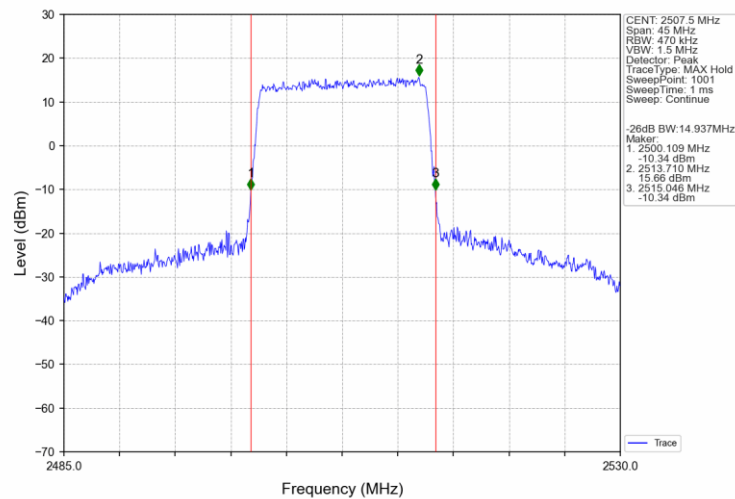
Band7_15MHz_QPSK_MCH_2535MHz_RB_75_0_NTNV



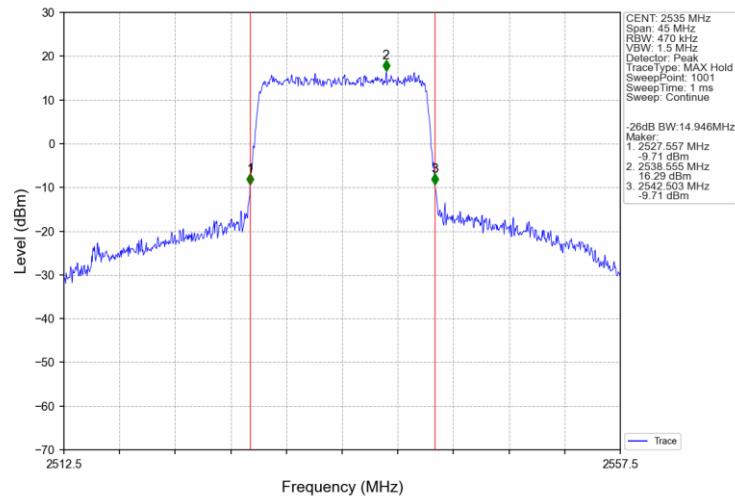
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_75_0_NTNV



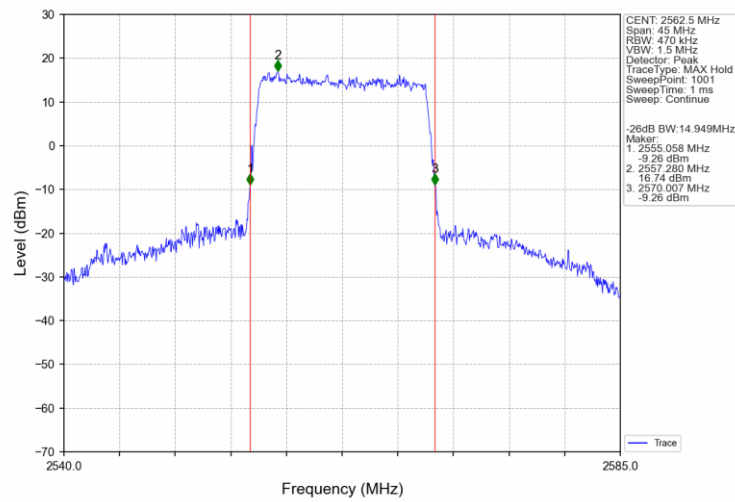
Band7_15MHz_16QAM_LCH_2507.5MHz_RB_75_0_NTNV



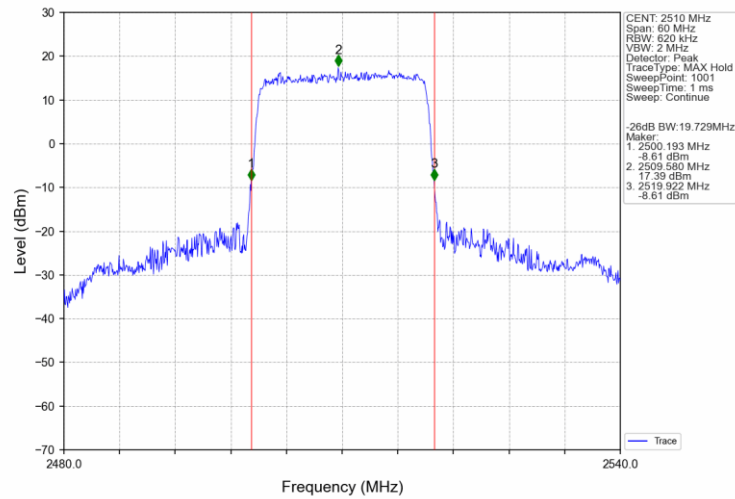
Band7_15MHz_16QAM_MCH_2535MHz_RB_75_0_NTNV



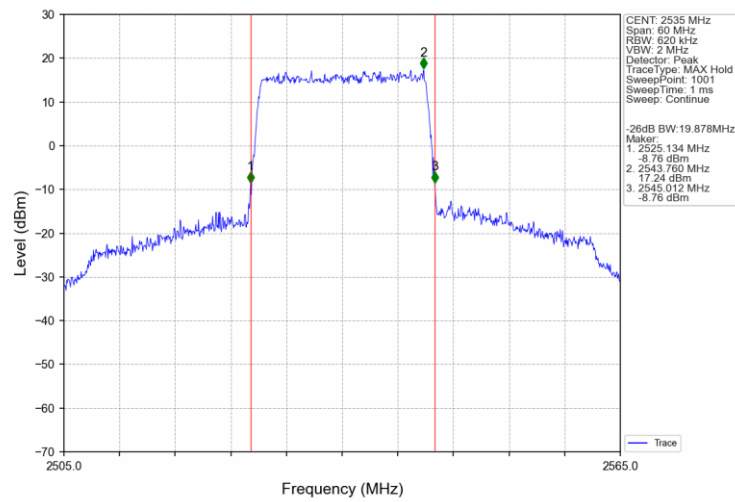
Band7_15MHz_16QAM_HCH_2562.5MHz_RB_75_0_NTNV



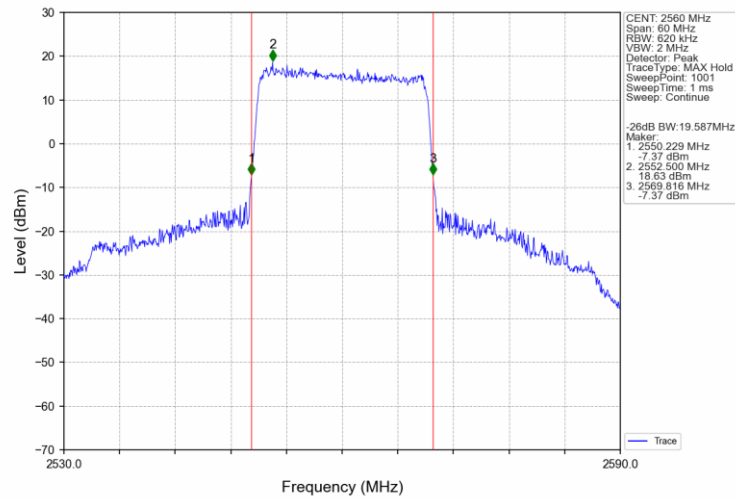
Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV



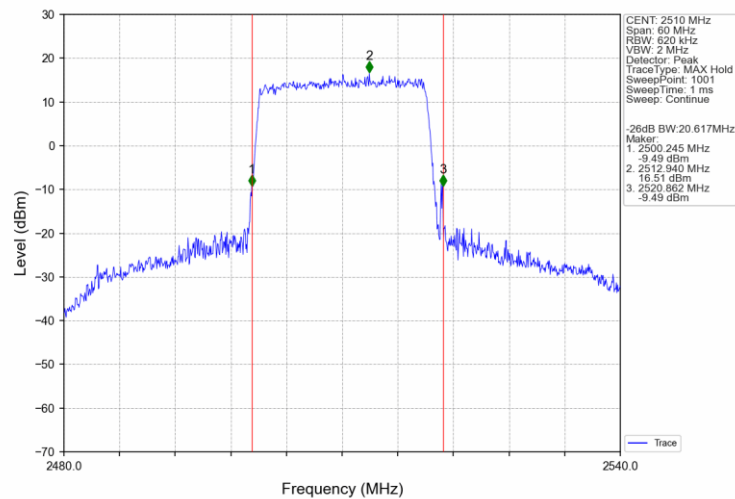
Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV



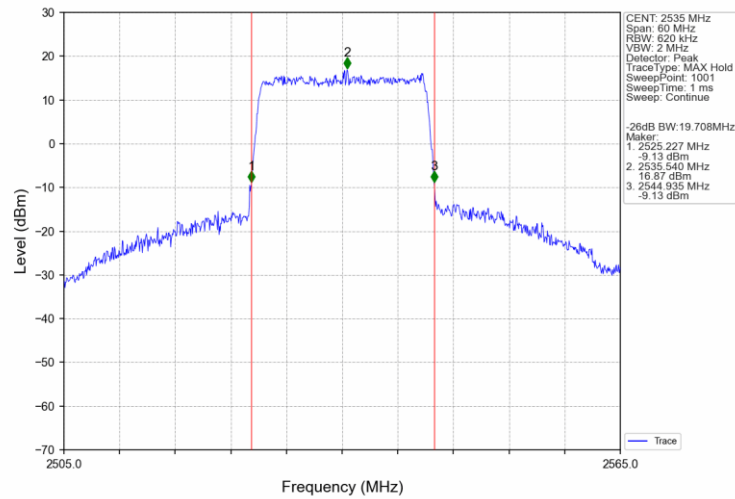
Band7_20MHz_QPSK_HCH_2560MHz_RB_100_0_NTNV



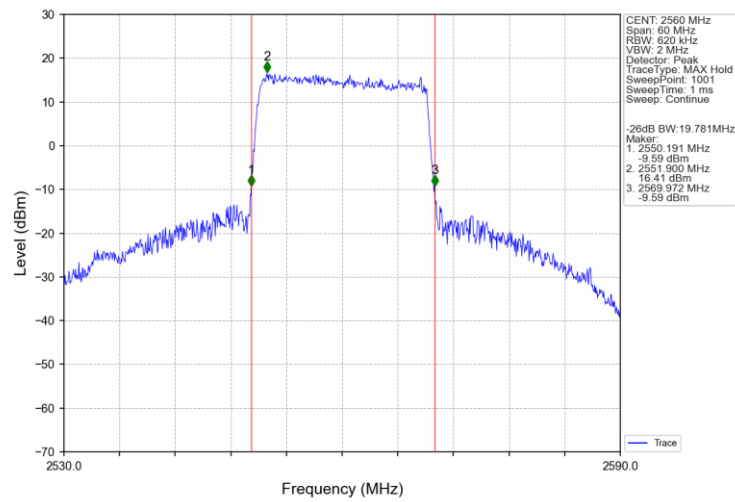
Band7_20MHz_16QAM_LCH_2510MHz_RB_100_0_NTNV



Band7_20MHz_16QAM_MCH_2535MHz_RB_100_0_NTNV



Band7_20MHz_16QAM_HCH_2560MHz_RB_100_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2502.5	25	0	5.42	<=13	Pass
	2535	25	0	5.08	<=13	Pass
	2567.5	25	0	5.29	<=13	Pass
16QAM	2502.5	25	0	6.14	<=13	Pass
	2535	25	0	5.82	<=13	Pass
	2567.5	25	0	6.03	<=13	Pass

5.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	50	0	5.32	<=13	Pass
	2535	50	0	5.01	<=13	Pass
	2565	50	0	5.33	<=13	Pass
16QAM	2505	50	0	6.12	<=13	Pass
	2535	50	0	5.81	<=13	Pass
	2565	50	0	6.10	<=13	Pass

5.1.3 B7_15MHz

Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2507.5	75	0	5.07	<=13	Pass
	2535	75	0	5.04	<=13	Pass
	2562.5	75	0	5.18	<=13	Pass
16QAM	2507.5	75	0	6.12	<=13	Pass
	2535	75	0	6.01	<=13	Pass
	2562.5	75	0	6.13	<=13	Pass

5.1.4 B7_20MHz

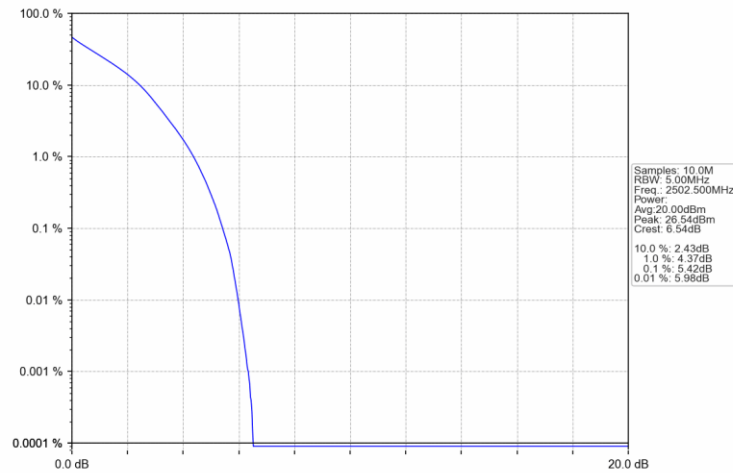
Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	100	0	5.62	<=13	Pass
	2535	100	0	5.70	<=13	Pass
	2560	100	0	5.66	<=13	Pass
16QAM	2510	100	0	6.59	<=13	Pass
	2535	100	0	6.58	<=13	Pass
	2560	100	0	6.65	<=13	Pass



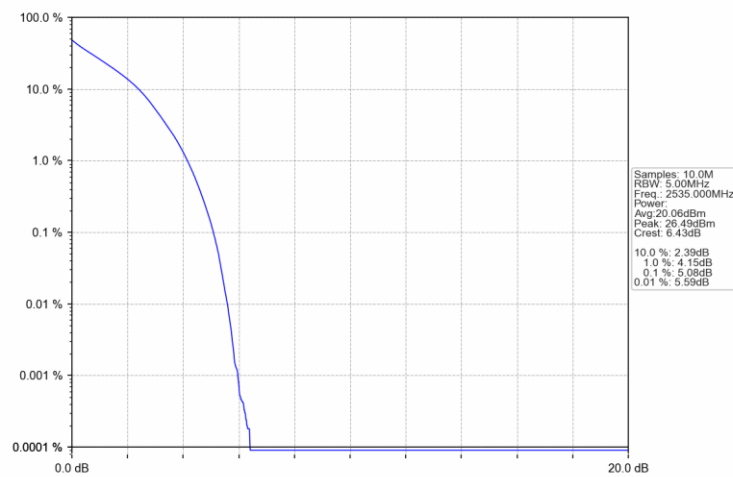
5.2 Test Graph

5.2.1 B7_5MHz

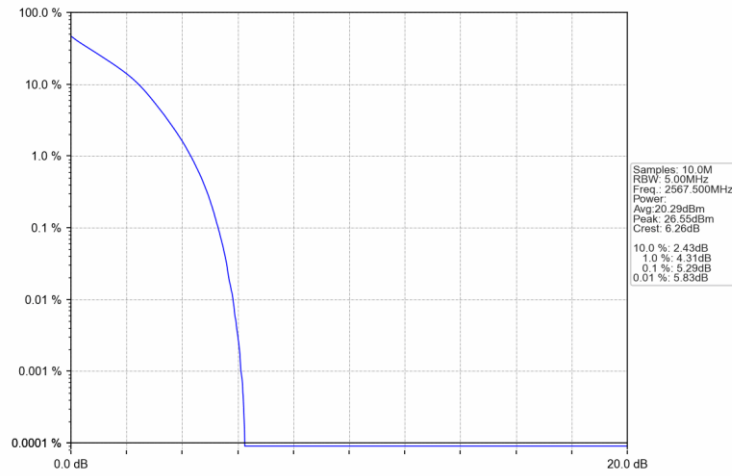
Band7_5MHz_QPSK_LCH_2502.5MHz_RB_25_0_NTNV



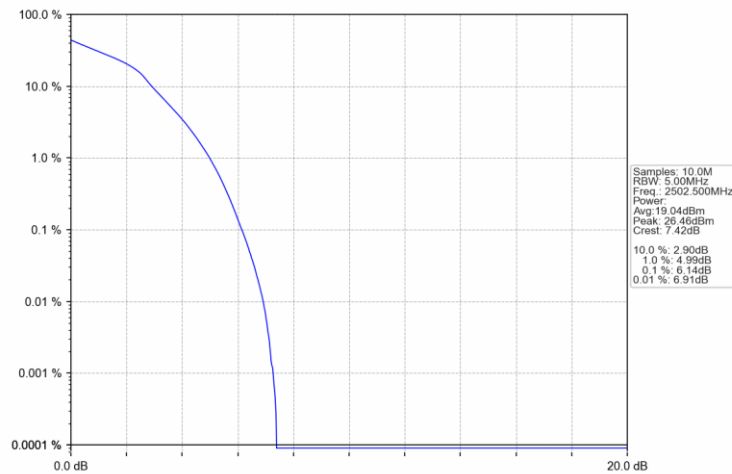
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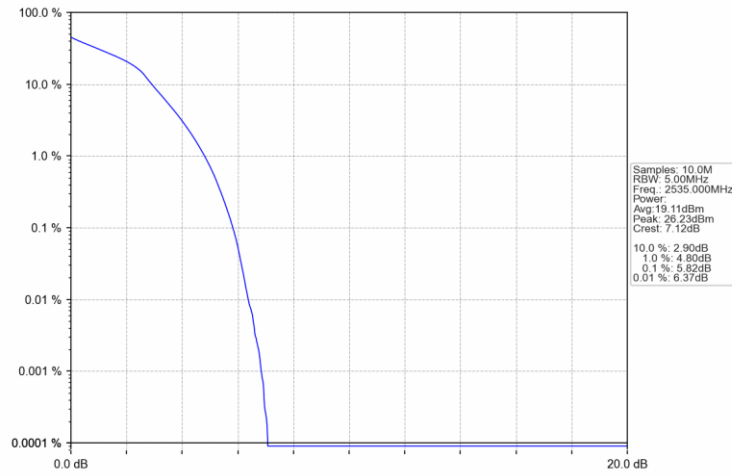
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV



Band7_5MHz_16QAM_MCH_2535MHz_RB_25_0_NTNV



Band7_5MHz_16QAM_HCH_2567.5MHz_RB_25_0_NTNV

