

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	22.25	1.85	24.10	<=33.01	Pass
			13	21.95	1.85	23.80	<=33.01	Pass
			24	21.82	1.85	23.67	<=33.01	Pass
		12	0	21.18	1.85	23.03	<=33.01	Pass
			6	21.17	1.85	23.02	<=33.01	Pass
			13	21.25	1.85	23.10	<=33.01	Pass
		25	0	21.24	1.85	23.09	<=33.01	Pass
	2535	1	0	22.14	1.85	23.99	<=33.01	Pass
			13	22.16	1.85	24.01	<=33.01	Pass
			24	22.18	1.85	24.03	<=33.01	Pass
		12	0	21.53	1.85	23.38	<=33.01	Pass
			6	21.52	1.85	23.37	<=33.01	Pass
			13	21.50	1.85	23.35	<=33.01	Pass
		25	0	21.51	1.85	23.36	<=33.01	Pass
	2567.5	1	0	22.23	1.85	24.08	<=33.01	Pass
			13	22.24	1.85	24.09	<=33.01	Pass
			24	22.25	1.85	24.10	<=33.01	Pass
		12	0	21.62	1.85	23.47	<=33.01	Pass
			6	21.58	1.85	23.43	<=33.01	Pass
			13	21.59	1.85	23.44	<=33.01	Pass
		25	0	21.61	1.85	23.46	<=33.01	Pass
16QAM	2502.5	1	0	20.86	1.85	22.71	<=33.01	Pass
			13	20.93	1.85	22.78	<=33.01	Pass
			24	20.96	1.85	22.81	<=33.01	Pass
		12	0	20.21	1.85	22.06	<=33.01	Pass
			6	20.24	1.85	22.09	<=33.01	Pass
			13	20.30	1.85	22.15	<=33.01	Pass
		25	0	20.21	1.85	22.06	<=33.01	Pass
	2535	1	0	21.22	1.85	23.07	<=33.01	Pass
			13	21.16	1.85	23.01	<=33.01	Pass
			24	21.18	1.85	23.03	<=33.01	Pass
		12	0	20.54	1.85	22.39	<=33.01	Pass
			6	20.52	1.85	22.37	<=33.01	Pass
			13	20.55	1.85	22.40	<=33.01	Pass
		25	0	20.59	1.85	22.44	<=33.01	Pass
	2567.5	1	0	21.11	1.85	22.96	<=33.01	Pass
			13	21.11	1.85	22.96	<=33.01	Pass
			24	21.11	1.85	22.96	<=33.01	Pass
		12	0	20.64	1.85	22.49	<=33.01	Pass
			6	20.60	1.85	22.45	<=33.01	Pass
			13	20.62	1.85	22.47	<=33.01	Pass
		25	0	20.64	1.85	22.49	<=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	21.61	1.85	23.46	<=33.01	Pass
			25	21.68	1.85	23.53	<=33.01	Pass
			49	21.67	1.85	23.52	<=33.01	Pass
		25	0	21.15	1.85	23.00	<=33.01	Pass
			13	21.24	1.85	23.09	<=33.01	Pass
			25	21.29	1.85	23.14	<=33.01	Pass
		50	0	21.23	1.85	23.08	<=33.01	Pass
	2535	1	0	21.86	1.85	23.71	<=33.01	Pass
			25	21.95	1.85	23.80	<=33.01	Pass
			49	21.89	1.85	23.74	<=33.01	Pass
		25	0	21.46	1.85	23.31	<=33.01	Pass
			13	21.52	1.85	23.37	<=33.01	Pass
			25	21.58	1.85	23.43	<=33.01	Pass
		50	0	21.57	1.85	23.42	<=33.01	Pass
	2565	1	0	22.06	1.85	23.91	<=33.01	Pass
			25	22.12	1.85	23.97	<=33.01	Pass
			49	22.12	1.85	23.97	<=33.01	Pass
		25	0	21.65	1.85	23.50	<=33.01	Pass
			13	21.60	1.85	23.45	<=33.01	Pass
			25	21.65	1.85	23.50	<=33.01	Pass
		50	0	21.67	1.85	23.52	<=33.01	Pass
16QAM	2505	1	0	20.84	1.85	22.69	<=33.01	Pass
			25	20.91	1.85	22.76	<=33.01	Pass
			49	20.92	1.85	22.77	<=33.01	Pass
		25	0	20.19	1.85	22.04	<=33.01	Pass
			13	20.28	1.85	22.13	<=33.01	Pass
			25	20.31	1.85	22.16	<=33.01	Pass
		50	0	20.25	1.85	22.10	<=33.01	Pass
	2535	1	0	20.76	1.85	22.61	<=33.01	Pass
			25	20.93	1.85	22.78	<=33.01	Pass
			49	20.91	1.85	22.76	<=33.01	Pass
		25	0	20.52	1.85	22.37	<=33.01	Pass
			13	20.56	1.85	22.41	<=33.01	Pass
			25	20.64	1.85	22.49	<=33.01	Pass
		50	0	20.55	1.85	22.40	<=33.01	Pass
	2565	1	0	21.19	1.85	23.04	<=33.01	Pass
			25	21.26	1.85	23.11	<=33.01	Pass
			49	21.24	1.85	23.09	<=33.01	Pass
		25	0	20.63	1.85	22.48	<=33.01	Pass
			13	20.60	1.85	22.45	<=33.01	Pass
			25	20.65	1.85	22.50	<=33.01	Pass
		50	0	20.61	1.85	22.46	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B7_15MHz_EIRP

Band: 7 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2507.5	1	0	21.55	1.85	23.40	<=33.01	Pass
			38	21.67	1.85	23.52	<=33.01	Pass
			74	21.67	1.85	23.52	<=33.01	Pass
		36	0	21.08	1.85	22.93	<=33.01	Pass
			18	21.20	1.85	23.05	<=33.01	Pass

		75	39	21.25	1.85	23.10	<=33.01	Pass
			0	21.15	1.85	23.00	<=33.01	Pass
			0	21.80	1.85	23.65	<=33.01	Pass
	2535	1	38	21.90	1.85	23.75	<=33.01	Pass
			74	21.83	1.85	23.68	<=33.01	Pass
			0	21.40	1.85	23.25	<=33.01	Pass
		36	18	21.47	1.85	23.32	<=33.01	Pass
			39	21.50	1.85	23.35	<=33.01	Pass
			0	21.48	1.85	23.33	<=33.01	Pass
	2562.5	1	0	21.92	1.85	23.77	<=33.01	Pass
			38	22.09	1.85	23.94	<=33.01	Pass
			74	22.04	1.85	23.89	<=33.01	Pass
		36	0	21.54	1.85	23.39	<=33.01	Pass
			18	21.56	1.85	23.41	<=33.01	Pass
			39	21.58	1.85	23.43	<=33.01	Pass
		75	0	21.64	1.85	23.49	<=33.01	Pass
			0	20.85	1.85	22.70	<=33.01	Pass
			38	21.00	1.85	22.85	<=33.01	Pass
16QAM	2507.5	1	74	20.98	1.85	22.83	<=33.01	Pass
			0	20.12	1.85	21.97	<=33.01	Pass
			18	20.25	1.85	22.10	<=33.01	Pass
		36	39	20.27	1.85	22.12	<=33.01	Pass
			0	20.16	1.85	22.01	<=33.01	Pass
			0	20.73	1.85	22.58	<=33.01	Pass
	2535	1	38	20.90	1.85	22.75	<=33.01	Pass
			74	20.85	1.85	22.70	<=33.01	Pass
			0	20.40	1.85	22.25	<=33.01	Pass
		36	18	20.45	1.85	22.30	<=33.01	Pass
			39	20.51	1.85	22.36	<=33.01	Pass
			0	20.47	1.85	22.32	<=33.01	Pass
		75	0	21.10	1.85	22.95	<=33.01	Pass
			38	21.27	1.85	23.12	<=33.01	Pass
			74	21.23	1.85	23.08	<=33.01	Pass
	2562.5	1	0	20.53	1.85	22.38	<=33.01	Pass
			18	20.56	1.85	22.41	<=33.01	Pass
			39	20.62	1.85	22.47	<=33.01	Pass
		36	0	20.53	1.85	22.38	<=33.01	Pass
			18	20.56	1.85	22.41	<=33.01	Pass
			39	20.62	1.85	22.47	<=33.01	Pass
		75	0	20.58	1.85	22.43	<=33.01	Pass
			0	20.58	1.85	22.43	<=33.01	Pass
			0	20.58	1.85	22.43	<=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	21.52	1.85	23.37	<=33.01	Pass
			50	21.69	1.85	23.54	<=33.01	Pass
			99	21.75	1.85	23.60	<=33.01	Pass
		50	0	21.04	1.85	22.89	<=33.01	Pass
			25	21.24	1.85	23.09	<=33.01	Pass
			50	21.23	1.85	23.08	<=33.01	Pass
		100	0	21.13	1.85	22.98	<=33.01	Pass
			0	21.60	1.85	23.45	<=33.01	Pass
			50	21.84	1.85	23.69	<=33.01	Pass
	2535	1	99	21.74	1.85	23.59	<=33.01	Pass
			0	21.46	1.85	23.31	<=33.01	Pass
			25	21.56	1.85	23.41	<=33.01	Pass
		50	50	21.64	1.85	23.49	<=33.01	Pass
			0	21.57	1.85	23.42	<=33.01	Pass
			0	21.57	1.85	23.42	<=33.01	Pass
		100	0	21.57	1.85	23.42	<=33.01	Pass
			0	21.57	1.85	23.42	<=33.01	Pass
			0	21.57	1.85	23.42	<=33.01	Pass

16QAM	2560	1	0	22.02	1.85	23.87	<=33.01	Pass
			50	22.21	1.85	24.06	<=33.01	Pass
			99	22.19	1.85	24.04	<=33.01	Pass
		50	0	21.72	1.85	23.57	<=33.01	Pass
			25	21.64	1.85	23.49	<=33.01	Pass
			50	21.62	1.85	23.47	<=33.01	Pass
	100		0	21.68	1.85	23.53	<=33.01	Pass
	2510	1	0	20.71	1.85	22.56	<=33.01	Pass
			50	20.89	1.85	22.74	<=33.01	Pass
			99	20.91	1.85	22.76	<=33.01	Pass
		50	0	20.01	1.85	21.86	<=33.01	Pass
			25	20.25	1.85	22.10	<=33.01	Pass
			50	20.23	1.85	22.08	<=33.01	Pass
	100		0	20.09	1.85	21.94	<=33.01	Pass
	2535	1	0	20.80	1.85	22.65	<=33.01	Pass
			50	21.15	1.85	23.00	<=33.01	Pass
			99	21.06	1.85	22.91	<=33.01	Pass
		50	0	20.49	1.85	22.34	<=33.01	Pass
			25	20.58	1.85	22.43	<=33.01	Pass
			50	20.67	1.85	22.52	<=33.01	Pass
	100		0	20.57	1.85	22.42	<=33.01	Pass
	2560	1	0	21.06	1.85	22.91	<=33.01	Pass
			50	21.28	1.85	23.13	<=33.01	Pass
			99	21.22	1.85	23.07	<=33.01	Pass
		50	0	20.66	1.85	22.51	<=33.01	Pass
			25	20.61	1.85	22.46	<=33.01	Pass
			50	20.62	1.85	22.47	<=33.01	Pass
	100		0	20.66	1.85	22.51	<=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	-3.948	-0.0016	-2.5 to 2.5	Pass
					3.85	-10.586	-0.0042	-2.5 to 2.5	Pass
					4.43	-5.908	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	-9.627	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-1.659	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-6.738	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-10.400	-0.0042	-2.5 to 2.5	Pass
				10	3.85	-2.060	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-9.027	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-4.320	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-12.231	-0.0049	-2.5 to 2.5	Pass
	2535	25	0	20	3.27	0.372	0.0001	-2.5 to 2.5	Pass
					3.85	-3.362	-0.0013	-2.5 to 2.5	Pass
					4.43	-1.502	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-3.777	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	-2.990	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	4.063	0.0016	-2.5 to 2.5	Pass

				0	3.85	-6.323	-0.0025	-2.5 to 2.5	Pass
				10	3.85	-2.017	-0.0008	-2.5 to 2.5	Pass
				30	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				40	3.85	-8.454	-0.0033	-2.5 to 2.5	Pass
				50	3.85	-2.317	-0.0009	-2.5 to 2.5	Pass
	2567.5	25	0	20	3.27	-6.065	-0.0024	-2.5 to 2.5	Pass
					3.85	4.621	0.0018	-2.5 to 2.5	Pass
					4.43	-2.246	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	-4.234	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	4.349	0.0017	-2.5 to 2.5	Pass
				-10	3.85	-3.977	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-2.089	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-4.263	-0.0017	-2.5 to 2.5	Pass
				30	3.85	-5.808	-0.0023	-2.5 to 2.5	Pass
				40	3.85	2.604	0.0010	-2.5 to 2.5	Pass
				50	3.85	4.048	0.0016	-2.5 to 2.5	Pass
16QAM	2502.5	25	0	20	3.27	-8.998	-0.0036	-2.5 to 2.5	Pass
					3.85	-1.688	-0.0007	-2.5 to 2.5	Pass
					4.43	-9.298	-0.0037	-2.5 to 2.5	Pass
				-30	3.85	-7.668	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	-4.749	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-10.686	-0.0043	-2.5 to 2.5	Pass
				0	3.85	-5.221	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-4.935	-0.0020	-2.5 to 2.5	Pass
				30	3.85	-8.955	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-4.406	-0.0018	-2.5 to 2.5	Pass
				50	3.85	-0.501	-0.0002	-2.5 to 2.5	Pass
	2535	25	0	20	3.27	-6.666	-0.0026	-2.5 to 2.5	Pass
					3.85	-3.405	-0.0013	-2.5 to 2.5	Pass
					4.43	-0.658	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	-2.174	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	0.372	0.0001	-2.5 to 2.5	Pass
				-10	3.85	10.185	0.0040	-2.5 to 2.5	Pass
				0	3.85	0.801	0.0003	-2.5 to 2.5	Pass
				10	3.85	-6.237	-0.0025	-2.5 to 2.5	Pass
				30	3.85	6.437	0.0025	-2.5 to 2.5	Pass
				40	3.85	2.933	0.0012	-2.5 to 2.5	Pass
				50	3.85	8.111	0.0032	-2.5 to 2.5	Pass
	2567.5	25	0	20	3.27	7.138	0.0028	-2.5 to 2.5	Pass
					3.85	-5.264	-0.0021	-2.5 to 2.5	Pass
					4.43	0.429	0.0002	-2.5 to 2.5	Pass
				-30	3.85	-6.394	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-5.579	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	3.276	0.0013	-2.5 to 2.5	Pass
				0	3.85	1.774	0.0007	-2.5 to 2.5	Pass
				10	3.85	-3.662	-0.0014	-2.5 to 2.5	Pass
				30	3.85	1.230	0.0005	-2.5 to 2.5	Pass
				40	3.85	-1.588	-0.0006	-2.5 to 2.5	Pass
				50	3.85	2.689	0.0010	-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	-5.922	-0.0024	-2.5 to 2.5	Pass
					3.85	-5.765	-0.0023	-2.5 to 2.5	Pass
					4.43	-7.367	-0.0029	-2.5 to 2.5	Pass

16QAM				-30	3.85	0.644	0.0003	-2.5 to 2.5	Pass
				-20	3.85	1.645	0.0007	-2.5 to 2.5	Pass
				-10	3.85	-1.631	-0.0007	-2.5 to 2.5	Pass
				0	3.85	-1.831	-0.0007	-2.5 to 2.5	Pass
				10	3.85	0.315	0.0001	-2.5 to 2.5	Pass
				30	3.85	-0.572	-0.0002	-2.5 to 2.5	Pass
				40	3.85	-1.431	-0.0006	-2.5 to 2.5	Pass
				50	3.85	0.572	0.0002	-2.5 to 2.5	Pass
	2535	50	0	20	3.27	-2.861	-0.0011	-2.5 to 2.5	Pass
					3.85	-9.456	-0.0037	-2.5 to 2.5	Pass
					4.43	-2.732	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-6.781	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-3.147	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-3.347	-0.0013	-2.5 to 2.5	Pass
				0	3.85	0.057	0.0000	-2.5 to 2.5	Pass
				10	3.85	-1.588	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-1.402	-0.0006	-2.5 to 2.5	Pass
				40	3.85	-4.563	-0.0018	-2.5 to 2.5	Pass
				50	3.85	-1.931	-0.0008	-2.5 to 2.5	Pass
				20	3.27	-6.123	-0.0024	-2.5 to 2.5	Pass
					3.85	0.744	0.0003	-2.5 to 2.5	Pass
					4.43	-4.821	-0.0019	-2.5 to 2.5	Pass
	2565	50	0	-30	3.85	-0.544	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	0.873	0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.486	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-6.909	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-2.089	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-1.202	-0.0005	-2.5 to 2.5	Pass
				40	3.85	0.486	0.0002	-2.5 to 2.5	Pass
				50	3.85	-2.918	-0.0011	-2.5 to 2.5	Pass
	2505	50	0	20	3.27	-2.847	-0.0011	-2.5 to 2.5	Pass
					3.85	-1.645	-0.0007	-2.5 to 2.5	Pass
					4.43	-1.144	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-3.033	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-5.865	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	6.366	0.0025	-2.5 to 2.5	Pass
				0	3.85	-6.852	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-5.593	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-1.845	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-4.277	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-6.022	-0.0024	-2.5 to 2.5	Pass
				20	3.27	1.445	0.0006	-2.5 to 2.5	Pass
					3.85	0.587	0.0002	-2.5 to 2.5	Pass
					4.43	-1.230	-0.0005	-2.5 to 2.5	Pass
	2535	50	0	-30	3.85	5.536	0.0022	-2.5 to 2.5	Pass
				-20	3.85	-1.202	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	0.472	0.0002	-2.5 to 2.5	Pass
				0	3.85	10.042	0.0040	-2.5 to 2.5	Pass
				10	3.85	-2.518	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-3.691	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-1.802	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-0.372	-0.0001	-2.5 to 2.5	Pass
	2565	50	0	20	3.27	-0.114	0.0000	-2.5 to 2.5	Pass
					3.85	-9.856	-0.0038	-2.5 to 2.5	Pass
					4.43	-4.349	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-2.089	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-5.922	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-4.463	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-9.413	-0.0037	-2.5 to 2.5	Pass

				10	3.85	-1.988	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-0.100	0.0000	-2.5 to 2.5	Pass
				40	3.85	-6.008	-0.0023	-2.5 to 2.5	Pass
				50	3.85	-3.419	-0.0013	-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	-2.861	-0.0011	-2.5 to 2.5	Pass
					3.85	-2.031	-0.0008	-2.5 to 2.5	Pass
					4.43	0.501	0.0002	-2.5 to 2.5	Pass
				-30	3.85	0.787	0.0003	-2.5 to 2.5	Pass
				-20	3.85	5.879	0.0023	-2.5 to 2.5	Pass
				-10	3.85	-2.375	-0.0009	-2.5 to 2.5	Pass
				0	3.85	0.715	0.0003	-2.5 to 2.5	Pass
				10	3.85	0.601	0.0002	-2.5 to 2.5	Pass
				30	3.85	-0.215	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.958	-0.0004	-2.5 to 2.5	Pass
				50	3.85	0.758	0.0003	-2.5 to 2.5	Pass
	2535	75	0	20	3.27	-0.486	-0.0002	-2.5 to 2.5	Pass
					3.85	-4.563	-0.0018	-2.5 to 2.5	Pass
					4.43	-1.402	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-3.119	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	1.674	0.0007	-2.5 to 2.5	Pass
				-10	3.85	-0.415	-0.0002	-2.5 to 2.5	Pass
				0	3.85	2.961	0.0012	-2.5 to 2.5	Pass
				10	3.85	-2.661	-0.0010	-2.5 to 2.5	Pass
				30	3.85	4.263	0.0017	-2.5 to 2.5	Pass
				40	3.85	-0.043	0.0000	-2.5 to 2.5	Pass
				50	3.85	1.802	0.0007	-2.5 to 2.5	Pass
	2562.5	75	0	20	3.27	-3.991	-0.0016	-2.5 to 2.5	Pass
					3.85	-0.029	0.0000	-2.5 to 2.5	Pass
					4.43	0.873	0.0003	-2.5 to 2.5	Pass
				-30	3.85	1.116	0.0004	-2.5 to 2.5	Pass
				-20	3.85	-3.347	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-0.272	-0.0001	-2.5 to 2.5	Pass
				0	3.85	2.131	0.0008	-2.5 to 2.5	Pass
				10	3.85	0.443	0.0002	-2.5 to 2.5	Pass
				30	3.85	-3.362	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-1.144	-0.0004	-2.5 to 2.5	Pass
16QAM	2507.5	75	0	20	3.27	1.788	0.0007	-2.5 to 2.5	Pass
					3.85	0.272	0.0001	-2.5 to 2.5	Pass
					4.43	-0.215	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	1.144	0.0005	-2.5 to 2.5	Pass
				-20	3.85	2.532	0.0010	-2.5 to 2.5	Pass
				-10	3.85	6.466	0.0026	-2.5 to 2.5	Pass
				0	3.85	1.516	0.0006	-2.5 to 2.5	Pass
				10	3.85	1.531	0.0006	-2.5 to 2.5	Pass
				30	3.85	1.202	0.0005	-2.5 to 2.5	Pass
				40	3.85	-1.788	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-3.190	-0.0013	-2.5 to 2.5	Pass
	2535	75	0	20	3.27	-8.068	-0.0032	-2.5 to 2.5	Pass
					3.85	-4.921	-0.0019	-2.5 to 2.5	Pass
					4.43	-5.679	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-7.367	-0.0029	-2.5 to 2.5	Pass

				-20	3.85	-3.304	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-2.160	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-8.440	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-4.520	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-7.453	-0.0029	-2.5 to 2.5	Pass
				40	3.85	-4.306	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-5.765	-0.0023	-2.5 to 2.5	Pass
	2562.5	75	0	20	3.27	-1.774	-0.0007	-2.5 to 2.5	Pass
					3.85	-5.965	-0.0023	-2.5 to 2.5	Pass
					4.43	-8.454	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	-4.363	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-5.736	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	2.432	0.0009	-2.5 to 2.5	Pass
				0	3.85	0.100	0.0000	-2.5 to 2.5	Pass
				10	3.85	2.604	0.0010	-2.5 to 2.5	Pass
				30	3.85	-0.486	-0.0002	-2.5 to 2.5	Pass
				40	3.85	-2.518	-0.0010	-2.5 to 2.5	Pass
				50	3.85	-4.907	-0.0019	-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	-2.789	-0.0011	-2.5 to 2.5	Pass
					3.85	-6.452	-0.0026	-2.5 to 2.5	Pass
					4.43	-3.290	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-0.629	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	0.143	0.0001	-2.5 to 2.5	Pass
				-10	3.85	6.180	0.0025	-2.5 to 2.5	Pass
				0	3.85	6.323	0.0025	-2.5 to 2.5	Pass
				10	3.85	4.177	0.0017	-2.5 to 2.5	Pass
				30	3.85	4.406	0.0018	-2.5 to 2.5	Pass
				40	3.85	0.343	0.0001	-2.5 to 2.5	Pass
				50	3.85	3.433	0.0014	-2.5 to 2.5	Pass
	2535	100	0	20	3.27	-1.373	-0.0005	-2.5 to 2.5	Pass
					3.85	-3.877	-0.0015	-2.5 to 2.5	Pass
					4.43	-1.659	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	-3.519	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	1.130	0.0004	-2.5 to 2.5	Pass
				-10	3.85	0.501	0.0002	-2.5 to 2.5	Pass
				0	3.85	1.287	0.0005	-2.5 to 2.5	Pass
				10	3.85	-0.629	-0.0002	-2.5 to 2.5	Pass
				30	3.85	0.715	0.0003	-2.5 to 2.5	Pass
				40	3.85	-1.559	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-2.918	-0.0012	-2.5 to 2.5	Pass
	2560	100	0	20	3.27	-1.073	-0.0004	-2.5 to 2.5	Pass
					3.85	-2.317	-0.0009	-2.5 to 2.5	Pass
					4.43	-7.067	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	0.215	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.701	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-3.519	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-1.016	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-3.905	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-5.937	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-3.591	-0.0014	-2.5 to 2.5	Pass
				50	3.85	3.262	0.0013	-2.5 to 2.5	Pass
16QAM	2510	100	0	20	3.27	4.978	0.0020	-2.5 to 2.5	Pass

					3.85	2.460	0.0010	-2.5 to 2.5	Pass
					4.43	-2.761	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	4.063	0.0016	-2.5 to 2.5	Pass
				-20	3.85	0.615	0.0002	-2.5 to 2.5	Pass
				-10	3.85	4.048	0.0016	-2.5 to 2.5	Pass
				0	3.85	7.482	0.0030	-2.5 to 2.5	Pass
				10	3.85	-1.831	-0.0007	-2.5 to 2.5	Pass
				30	3.85	2.203	0.0009	-2.5 to 2.5	Pass
				40	3.85	0.486	0.0002	-2.5 to 2.5	Pass
				50	3.85	1.473	0.0006	-2.5 to 2.5	Pass
	2535	100	0	20	3.27	-3.233	-0.0013	-2.5 to 2.5	Pass
					3.85	-0.830	-0.0003	-2.5 to 2.5	Pass
					4.43	-3.018	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	-2.332	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-4.606	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	-5.722	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-3.934	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-2.789	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-1.831	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-4.892	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-4.964	-0.0020	-2.5 to 2.5	Pass
	2560	100	0	20	3.27	0.715	0.0003	-2.5 to 2.5	Pass
					3.85	-0.672	-0.0003	-2.5 to 2.5	Pass
					4.43	3.319	0.0013	-2.5 to 2.5	Pass
				-30	3.85	-5.651	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	3.691	0.0014	-2.5 to 2.5	Pass
				-10	3.85	3.133	0.0012	-2.5 to 2.5	Pass
				0	3.85	-1.059	-0.0004	-2.5 to 2.5	Pass
				10	3.85	2.332	0.0009	-2.5 to 2.5	Pass
				30	3.85	3.247	0.0013	-2.5 to 2.5	Pass
				40	3.85	-1.373	-0.0005	-2.5 to 2.5	Pass
				50	3.85	3.533	0.0014	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		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 / NTN					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		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

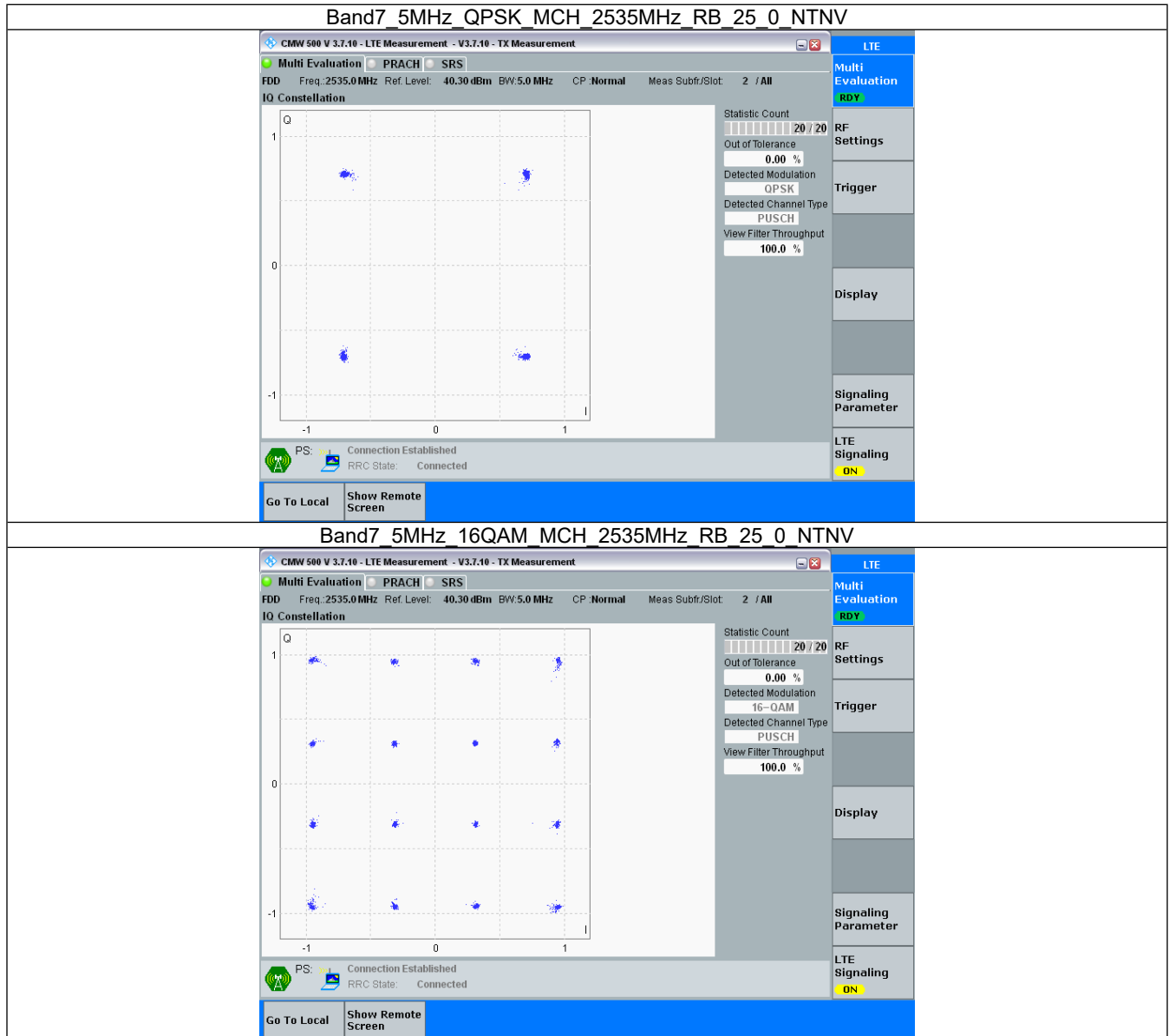
Band: 7 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	75	0	Refer To Test Graph		Pass
16QAM	2535	75	0	Refer To Test Graph		Pass

3.1.4 B7_20MHz

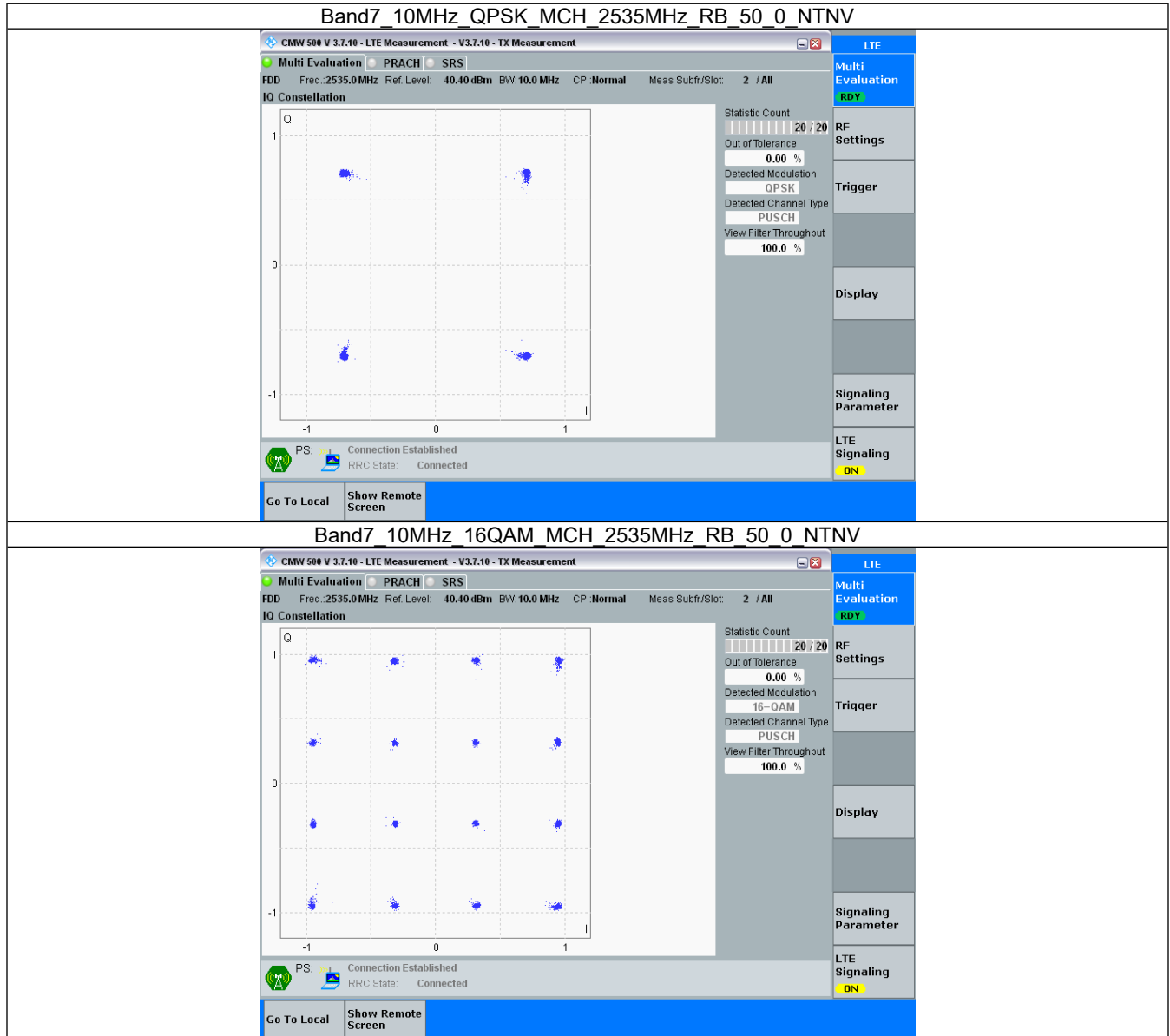
Band: 7 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	100	0	Refer To Test Graph		Pass
16QAM	2535	100	0	Refer To Test Graph		Pass

3.2 Test Graph

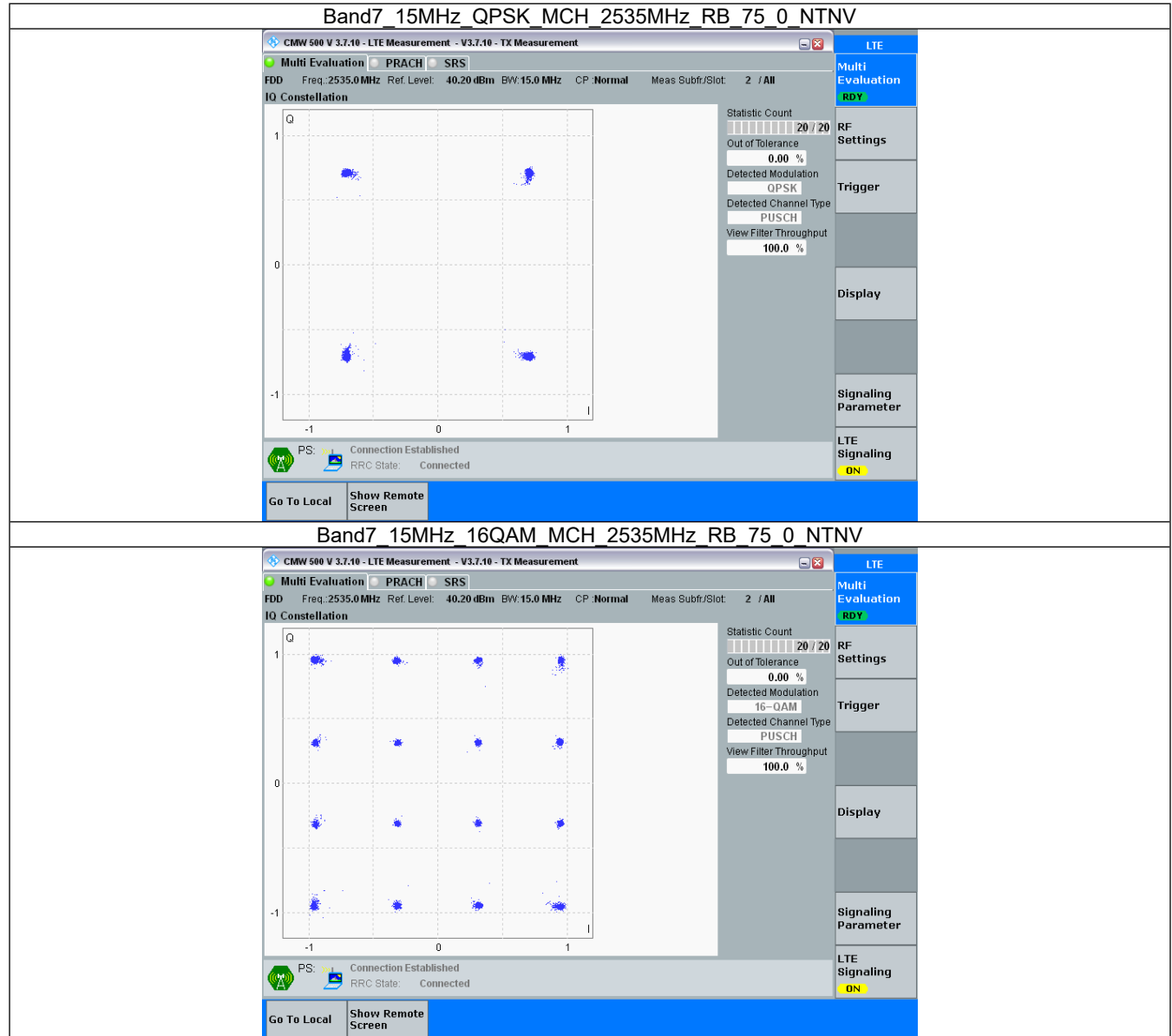
3.2.1 B7_5MHz



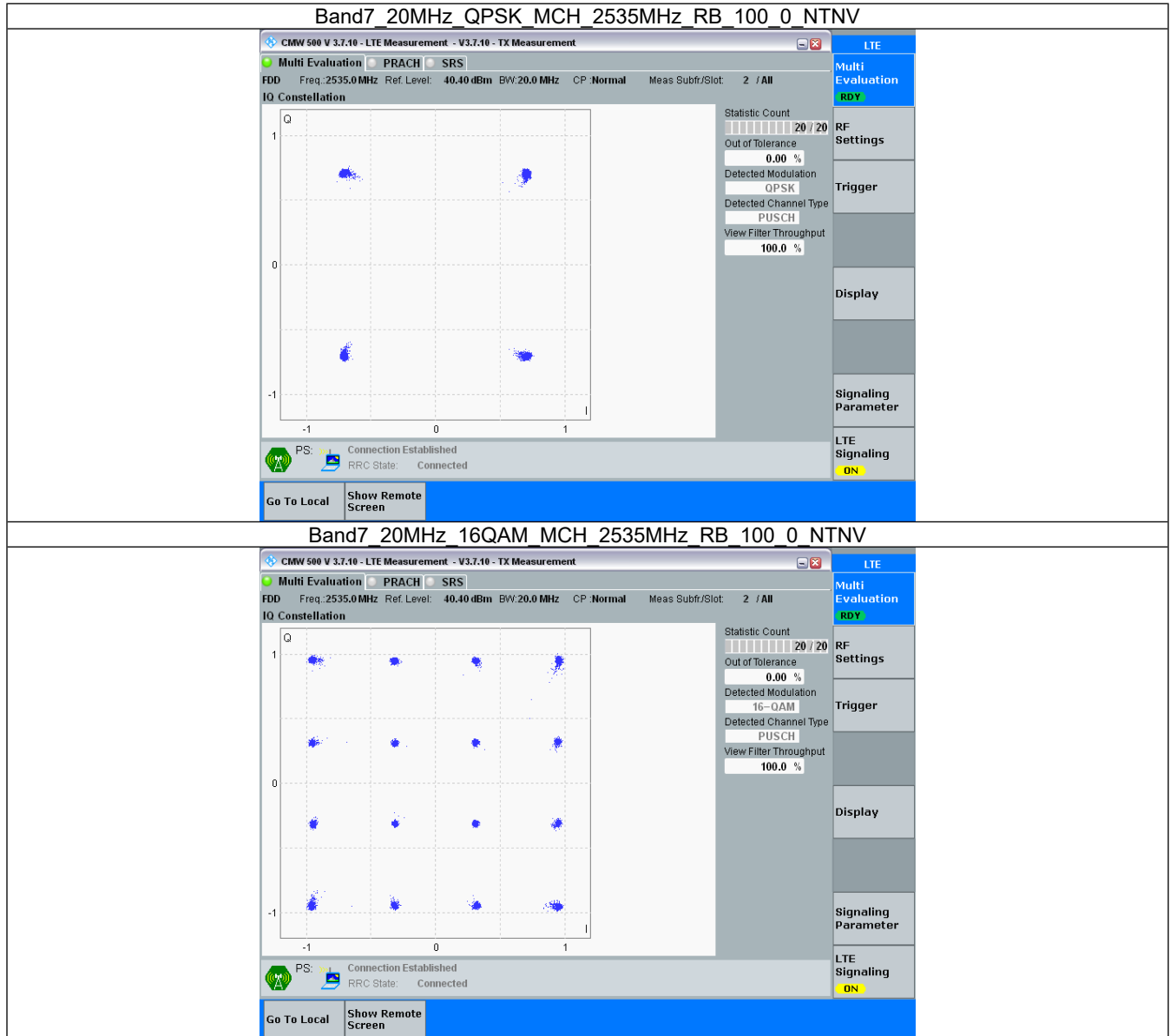
3.2.2 B7_10MHz



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	4.541	/	Pass
		2535	25	0	4.547	/	Pass
		2567.5	25	0	4.544	/	Pass
	16QAM	2502.5	25	0	4.558	/	Pass
		2535	25	0	4.559	/	Pass
		2567.5	25	0	4.535	/	Pass
10	QPSK	2505	50	0	9.083	/	Pass
		2535	50	0	9.057	/	Pass
		2565	50	0	9.073	/	Pass
	16QAM	2505	50	0	9.046	/	Pass
		2535	50	0	9.074	/	Pass
		2565	50	0	9.073	/	Pass
15	QPSK	2507.5	75	0	13.595	/	Pass
		2535	75	0	13.558	/	Pass
		2562.5	75	0	13.621	/	Pass
	16QAM	2507.5	75	0	13.596	/	Pass
		2535	75	0	13.625	/	Pass
		2562.5	75	0	13.601	/	Pass
20	QPSK	2510	100	0	18.052	/	Pass
		2535	100	0	18.116	/	Pass
		2560	100	0	18.116	/	Pass
	16QAM	2510	100	0	18.065	/	Pass
		2535	100	0	18.158	/	Pass
		2560	100	0	18.210	/	Pass

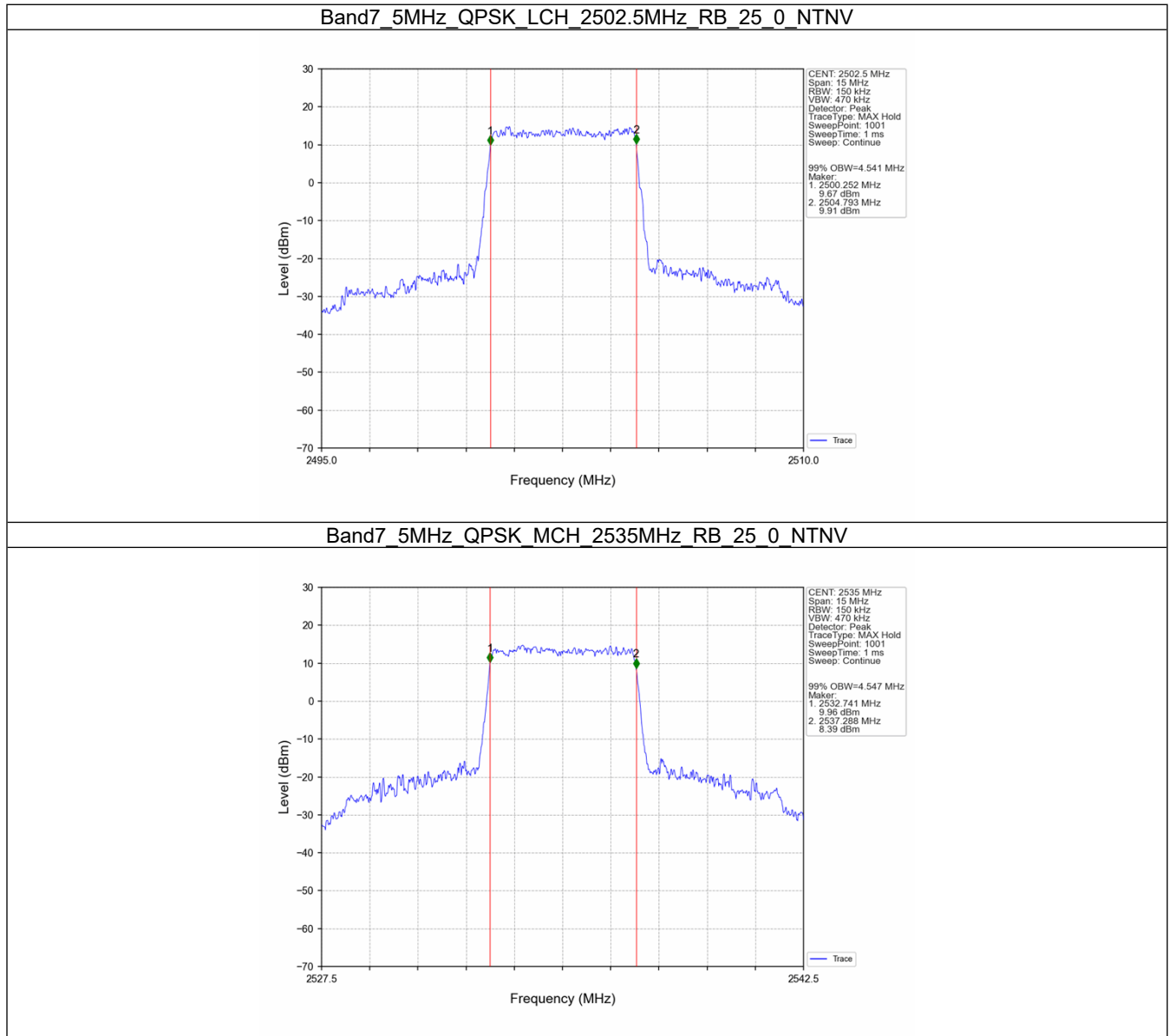
4.1.2 Band7_XDB

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	5.031	/	Pass
		2535	25	0	5.039	/	Pass
		2567.5	25	0	5.053	/	Pass
	16QAM	2502.5	25	0	5.086	/	Pass
		2535	25	0	5.032	/	Pass
		2567.5	25	0	5.043	/	Pass
10	QPSK	2505	50	0	9.951	/	Pass
		2535	50	0	10.011	/	Pass
		2565	50	0	10.017	/	Pass
	16QAM	2505	50	0	9.996	/	Pass
		2535	50	0	10.040	/	Pass
		2565	50	0	9.910	/	Pass
15	QPSK	2507.5	75	0	14.929	/	Pass
		2535	75	0	15.088	/	Pass
		2562.5	75	0	14.975	/	Pass

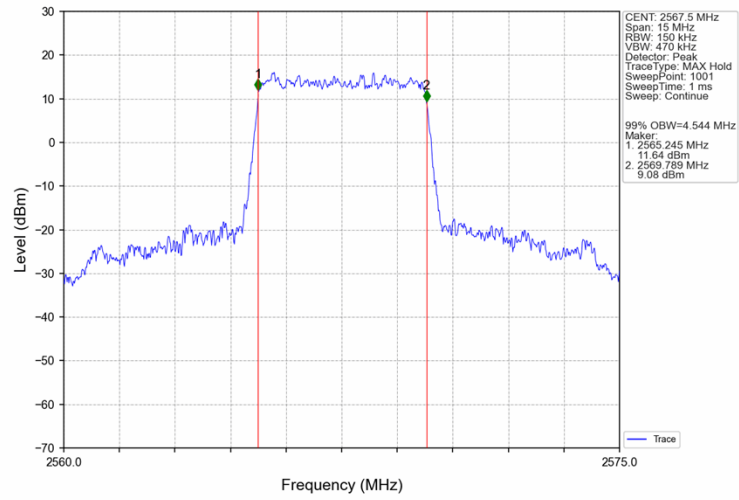
20	16QAM	2507.5	75	0	15.362	/	Pass
		2535	75	0	14.977	/	Pass
		2562.5	75	0	14.849	/	Pass
	QPSK	2510	100	0	19.709	/	Pass
		2535	100	0	19.960	/	Pass
		2560	100	0	19.636	/	Pass
	16QAM	2510	100	0	19.658	/	Pass
		2535	100	0	19.830	/	Pass
		2560	100	0	19.587	/	Pass

4.2 Test Graph

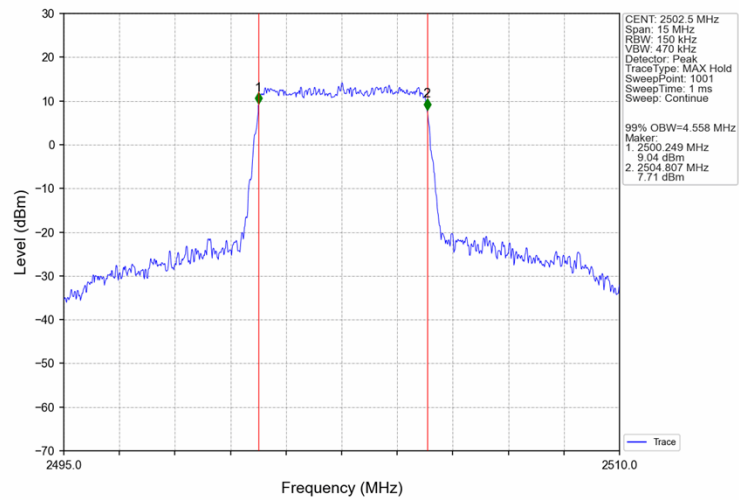
4.2.1 Band7_OBW



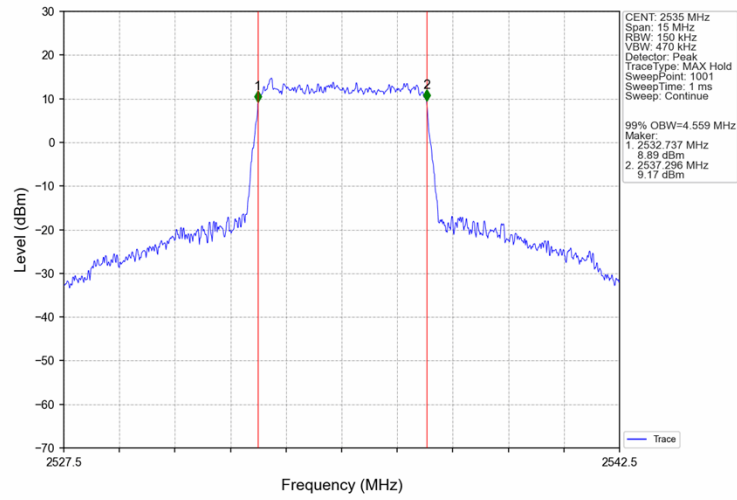
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



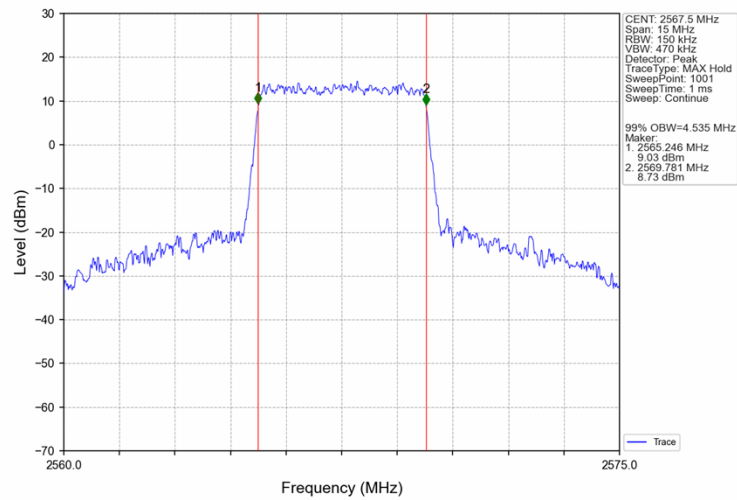
Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV



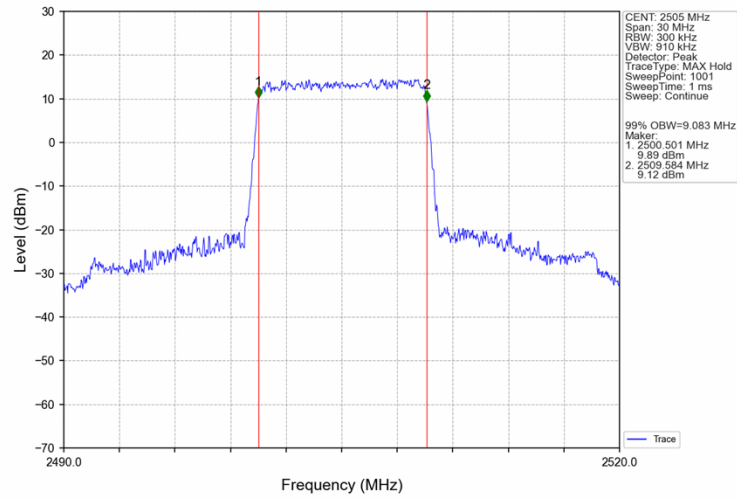
Band7_5MHz_16QAM_MCH_2535MHz_RB_25_0_NTNV



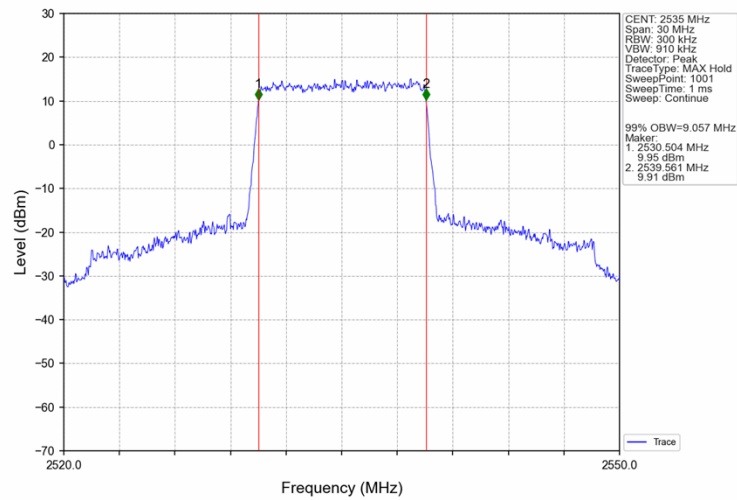
Band7_5MHz_16QAM_HCH_2567.5MHz_RB_25_0_NTNV



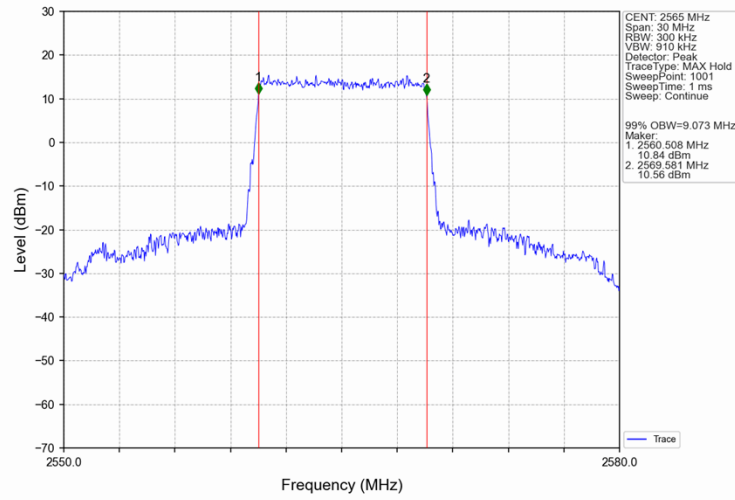
Band7 10MHz QPSK LCH 2505MHz RB 50 0 NTNV



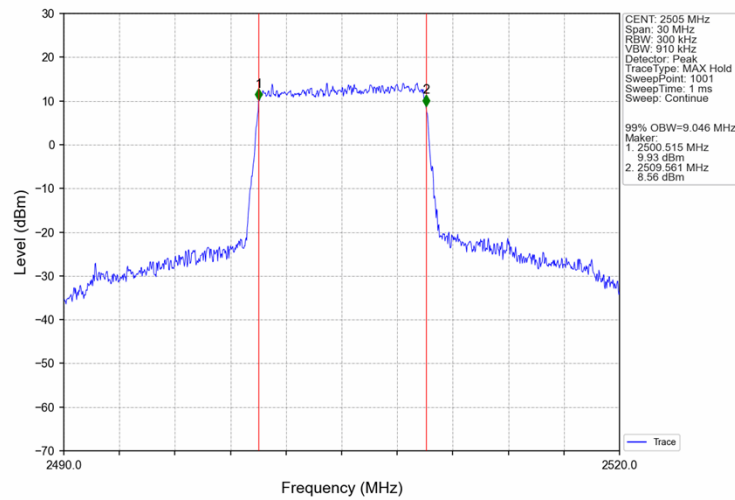
Band7 10MHz QPSK MCH 2535MHz RB 50 0 NTNV



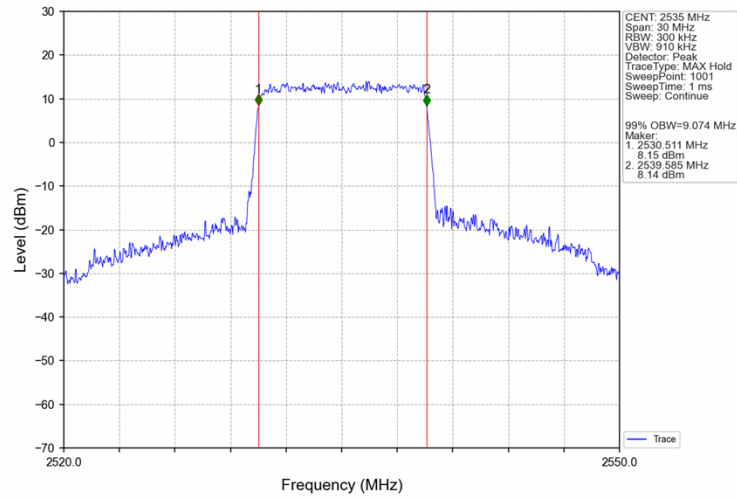
Band7_10MHz_QPSK_HCH_2565MHz_RB_50_0_NTNV



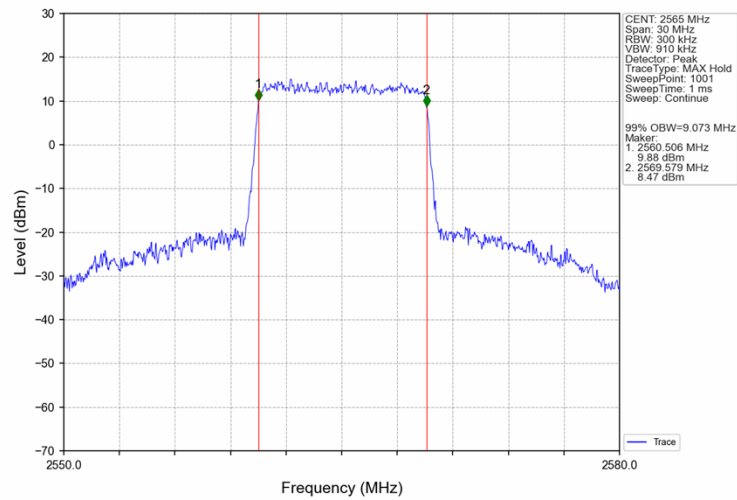
Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV



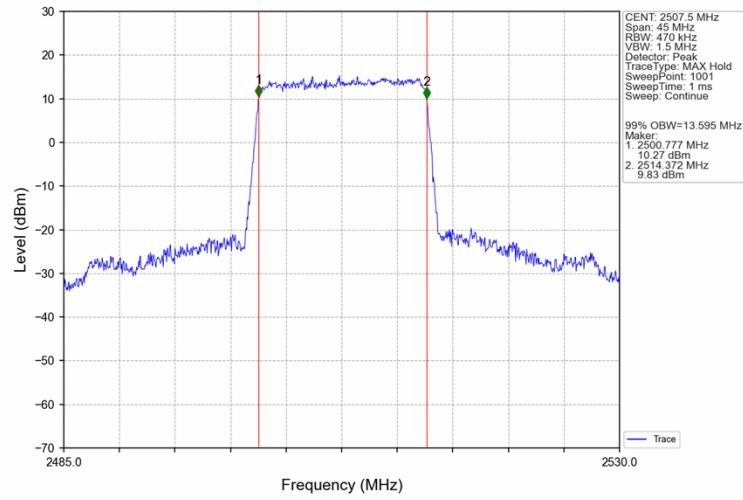
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



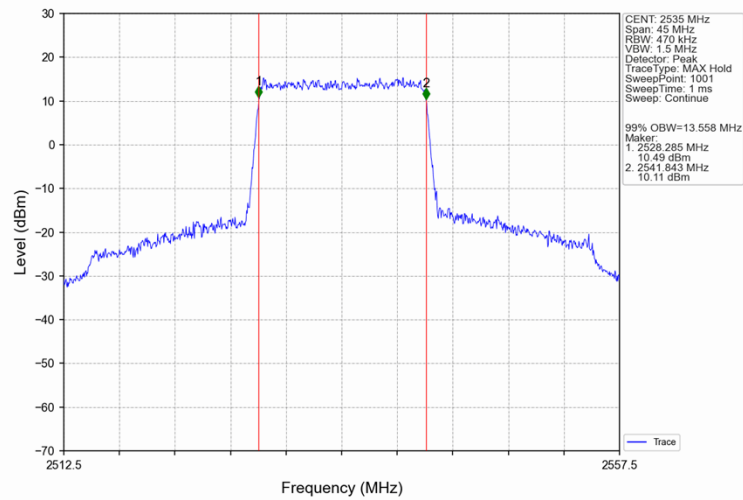
Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV



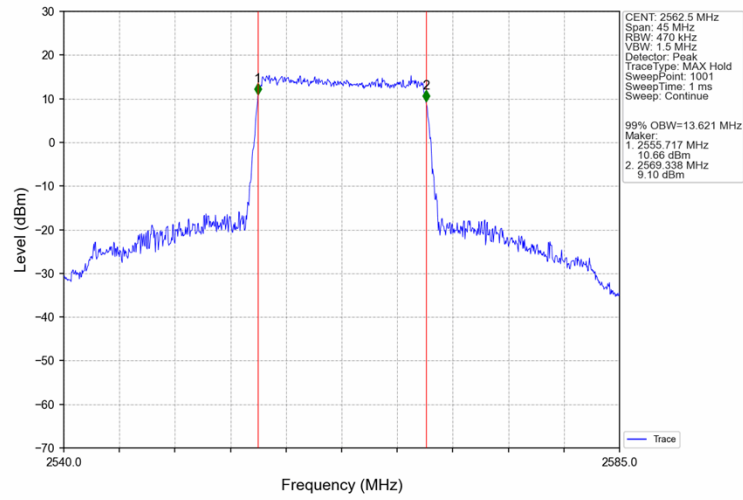
Band7 15MHz QPSK LCH 2507.5MHz RB 75 0 NTNV



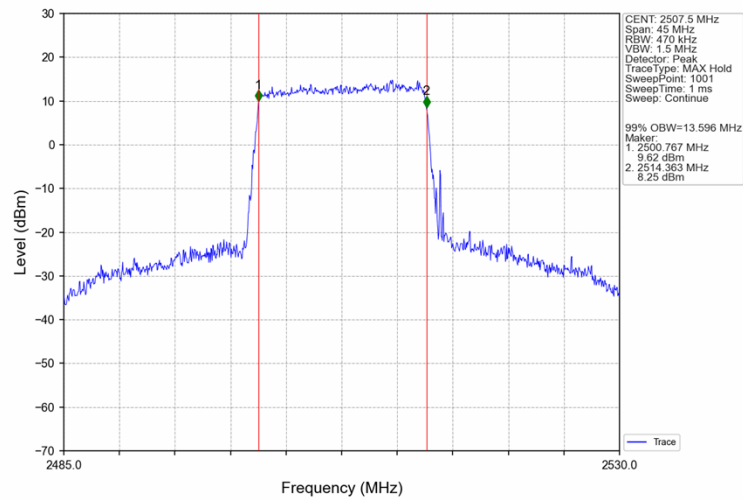
Band7 15MHz QPSK MCH 2535MHz RB 75 0 NTNV



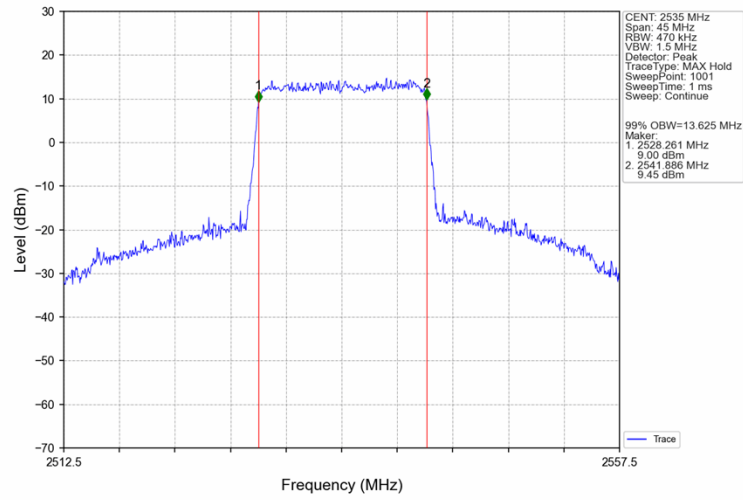
Band7 15MHz QPSK HCH 2562.5MHz RB 75 0 NTNV



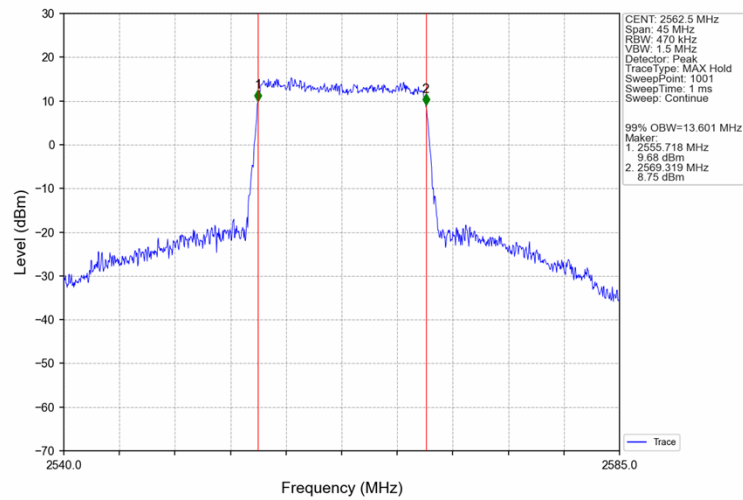
Band7 15MHz 16QAM LCH 2507.5MHz RB 75 0 NTNV



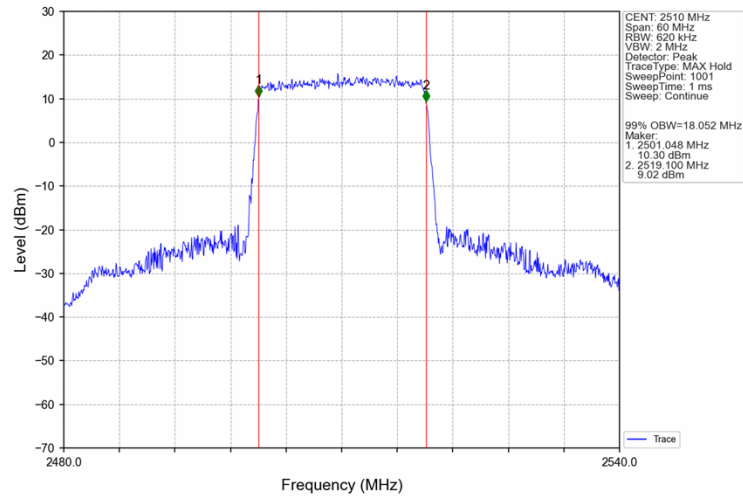
Band7 15MHz 16QAM MCH 2535MHz RB 75 0 NTNV



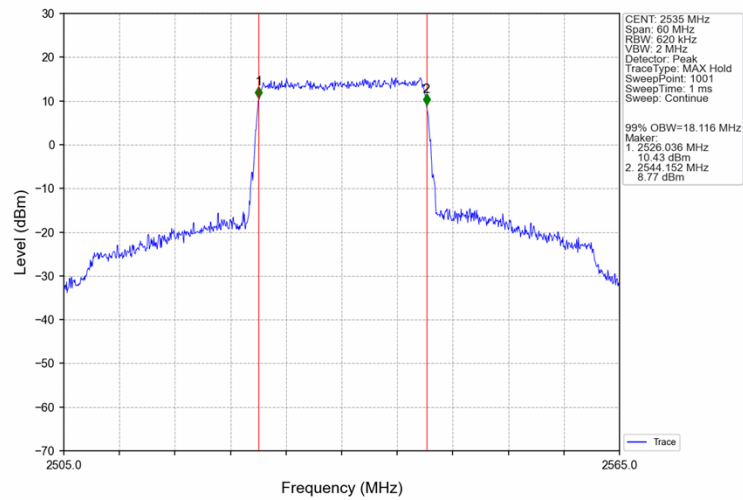
Band7 15MHz 16QAM HCH 2562.5MHz RB 75 0 NTNV



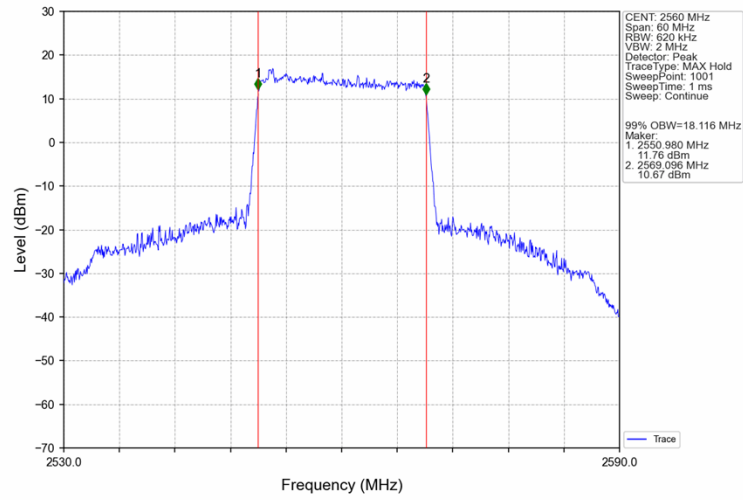
Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV



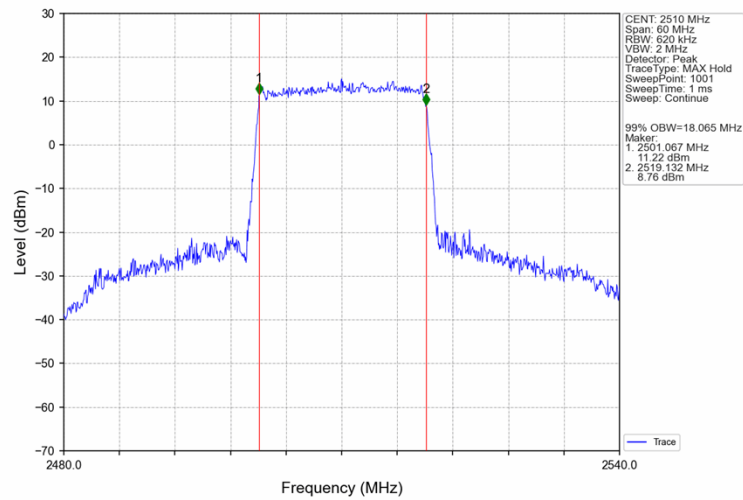
Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV



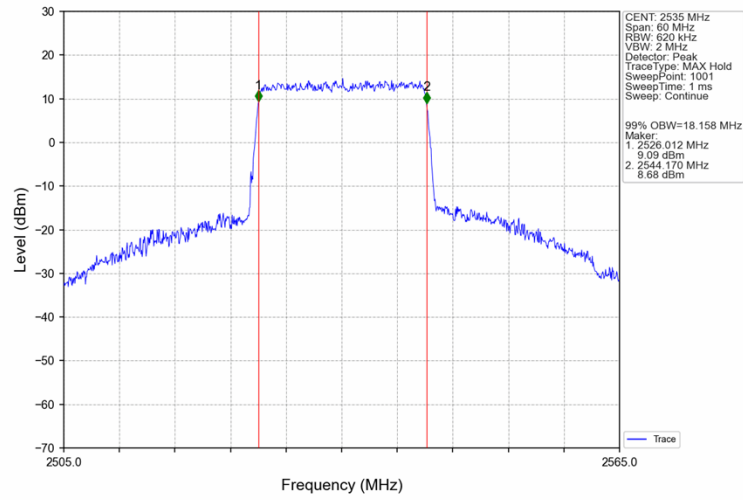
Band7 20MHz QPSK HCH 2560MHz RB 100 0 NTV



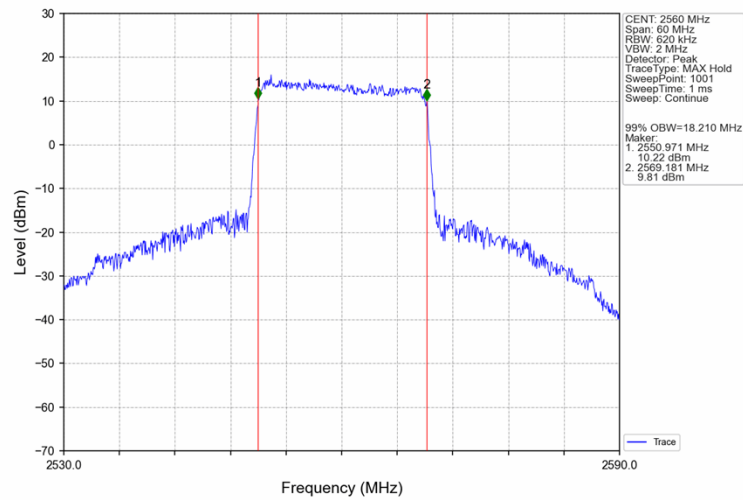
Band7 20MHz 16QAM LCH 2510MHz RB 100 0 NTV



Band7 20MHz 16QAM MCH 2535MHz RB 100 0 NTN

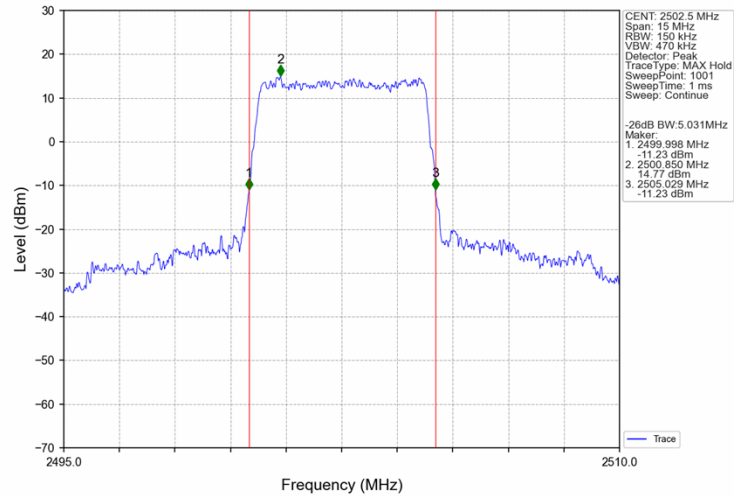


Band7 20MHz 16QAM HCH 2560MHz RB 100 0 NTN

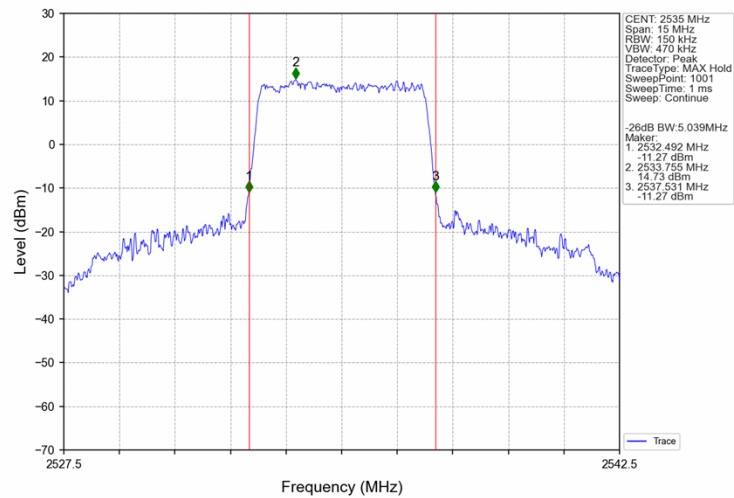


4.2.2 Band7_XDB

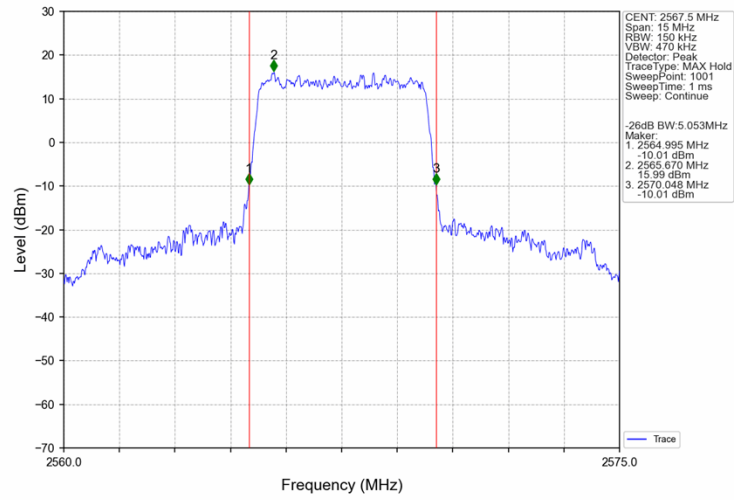
Band7_5MHz_QPSK_LCH_2502.5MHz_RB_25_0_NTNV



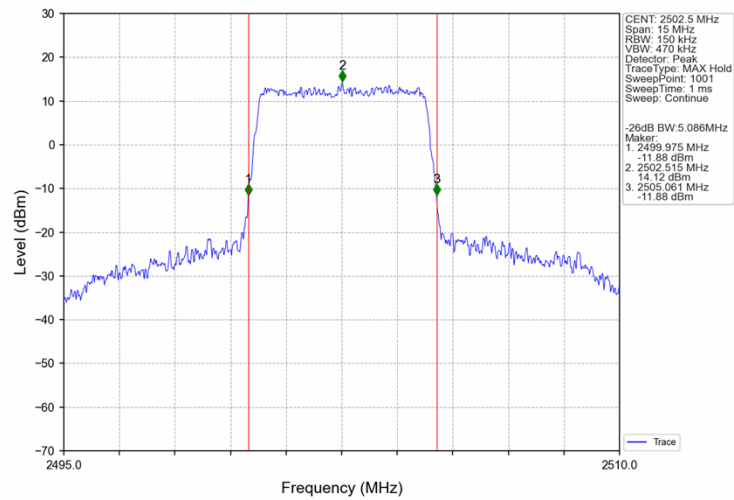
Band7_5MHz_QPSK_MCH_2535MHz_RB_25_0_NTNV



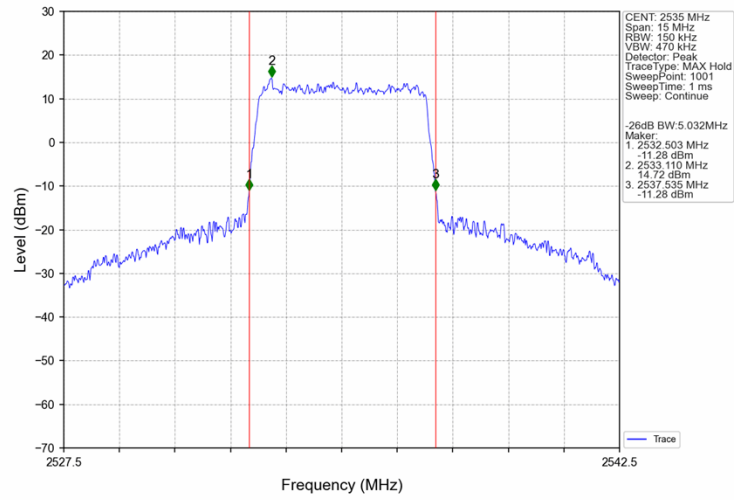
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



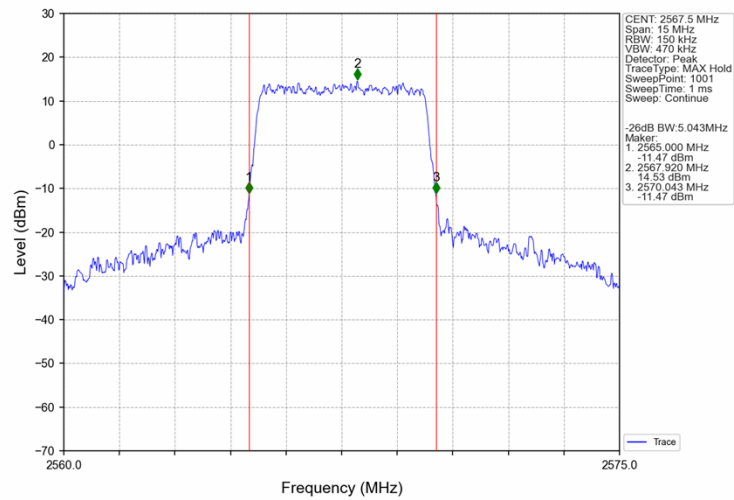
Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV



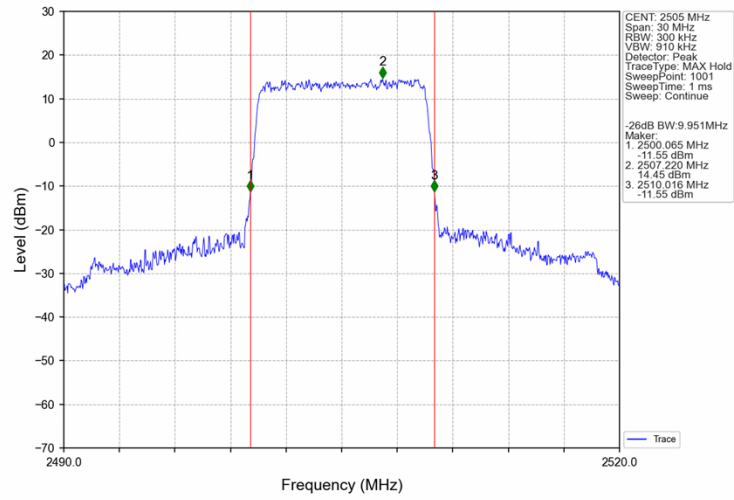
Band7_5MHz_16QAM_MCH_2535MHz_RB_25_0_NTNV



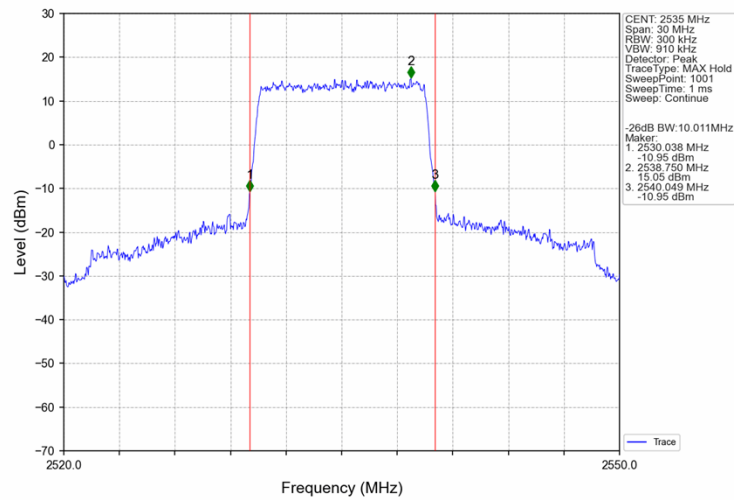
Band7_5MHz_16QAM_HCH_2567.5MHz_RB_25_0_NTNV



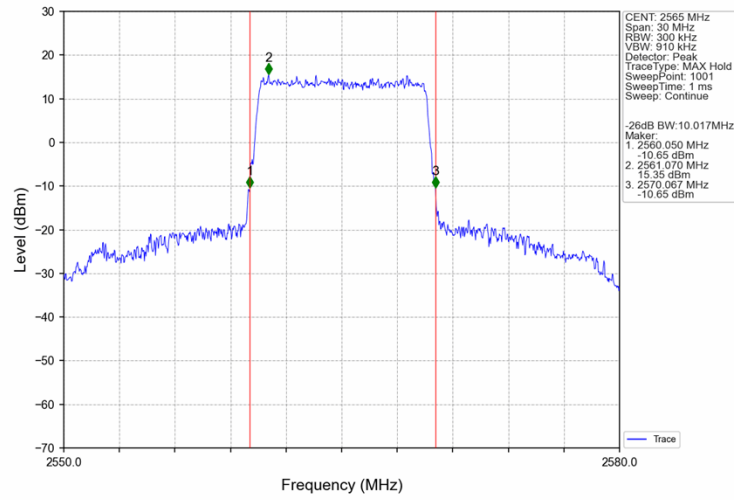
Band7 10MHz QPSK LCH 2505MHz RB 50 0 NTNV



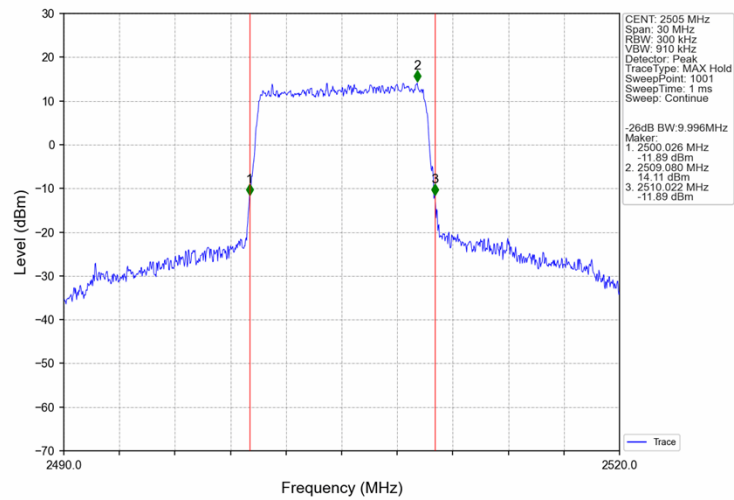
Band7 10MHz QPSK MCH 2535MHz RB 50 0 NTNV



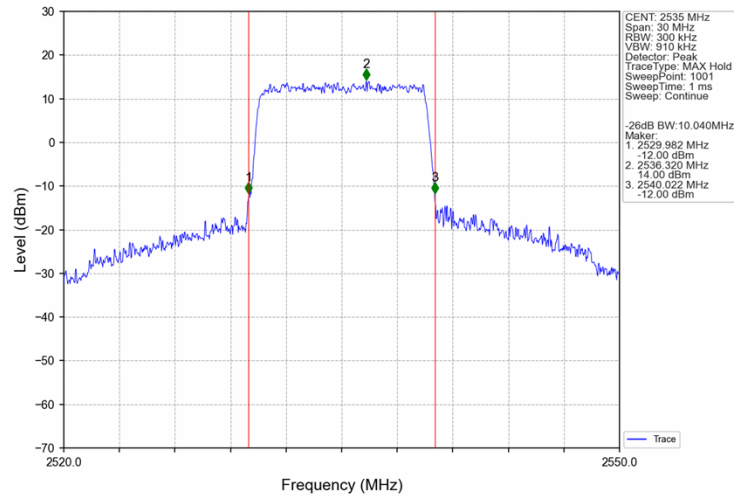
Band7_10MHz_QPSK_HCH_2565MHz_RB_50_0_NTNV



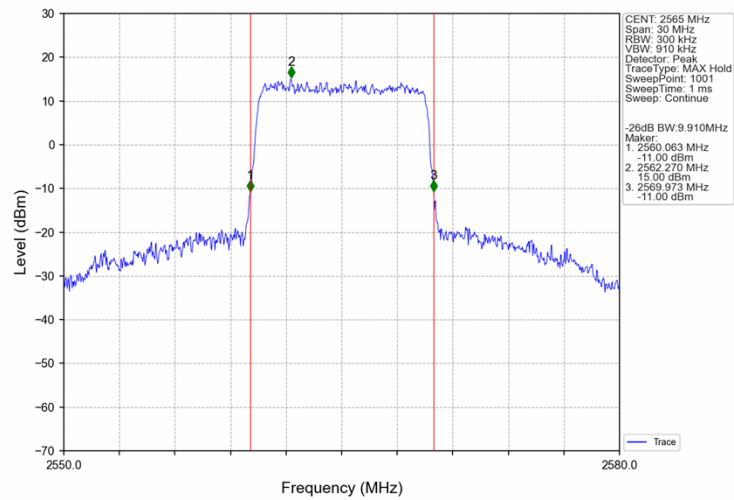
Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV



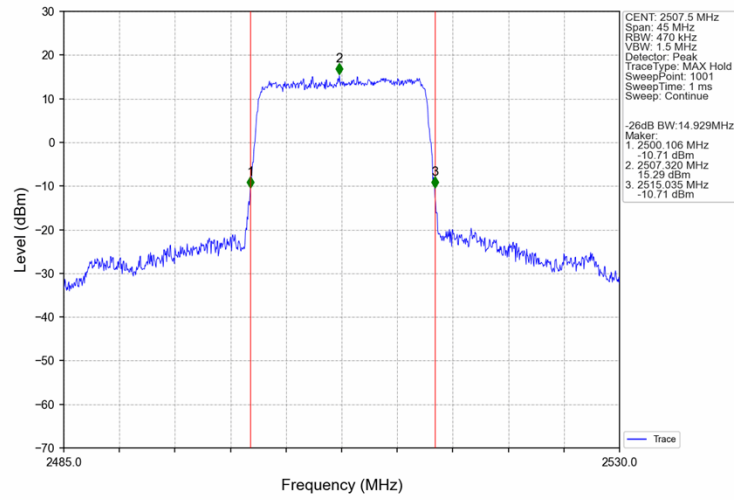
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



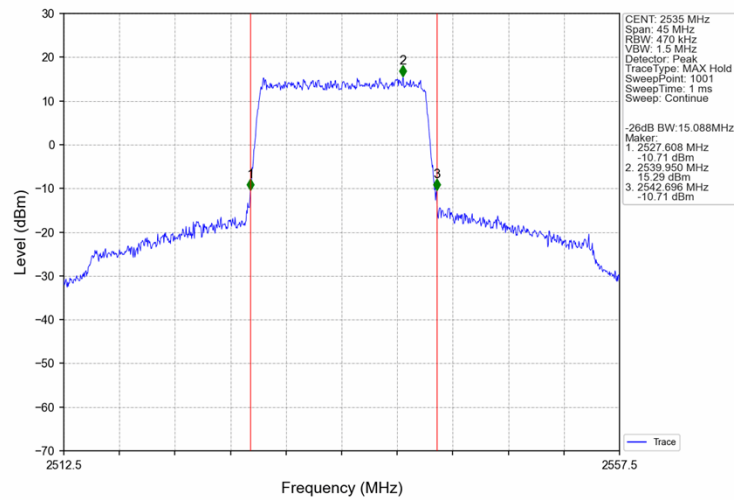
Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV



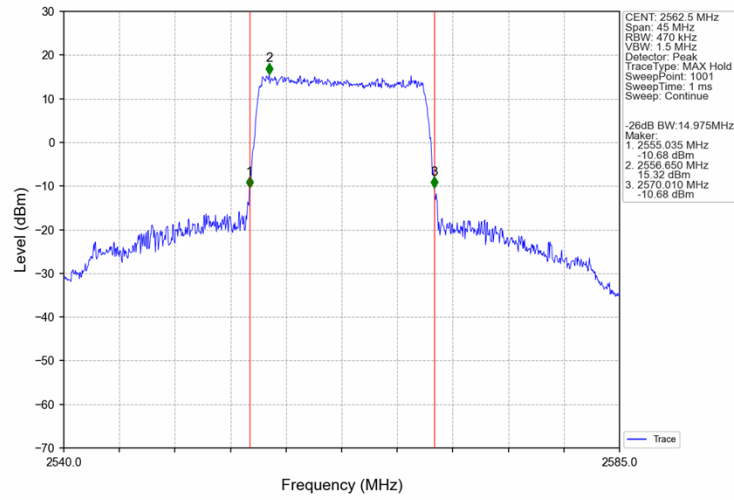
Band7 15MHz QPSK LCH 2507.5MHz RB 75 0 NTNV



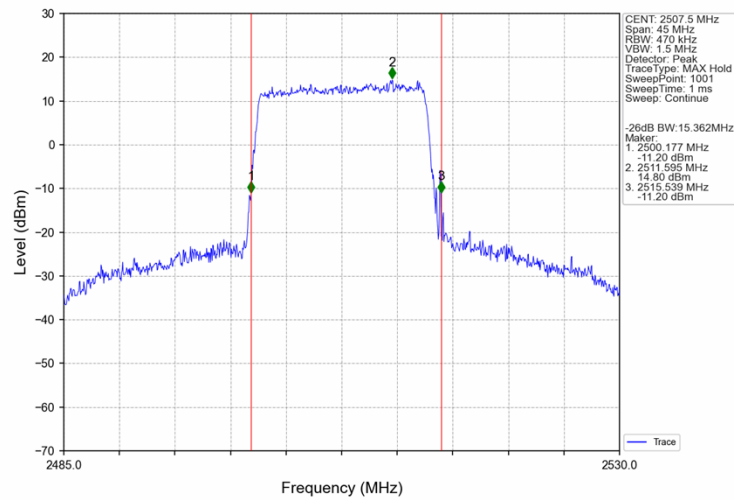
Band7 15MHz QPSK MCH 2535MHz RB 75 0 NTNV



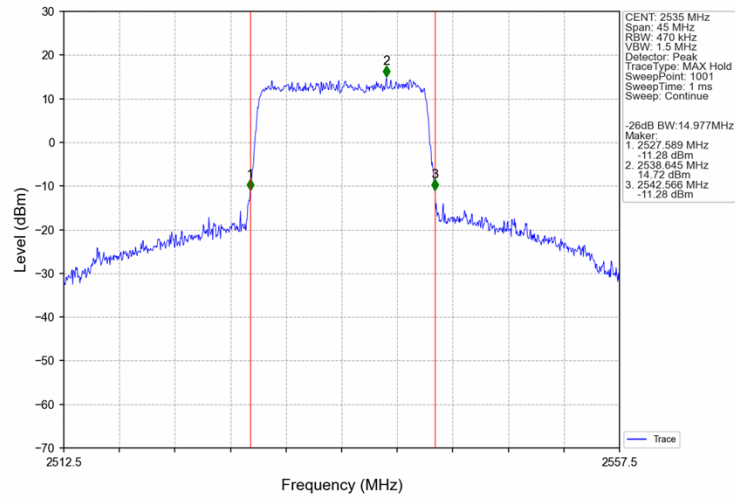
Band7 15MHz QPSK HCH 2562.5MHz RB 75 0 NTNV



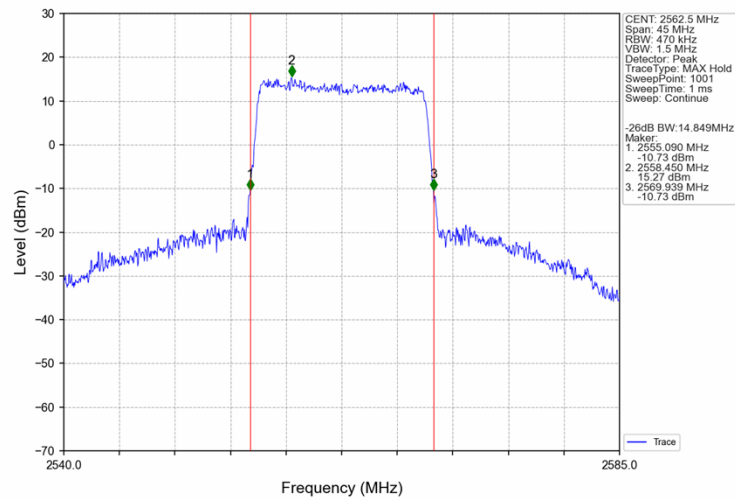
Band7 15MHz 16QAM LCH 2507.5MHz RB 75 0 NTNV



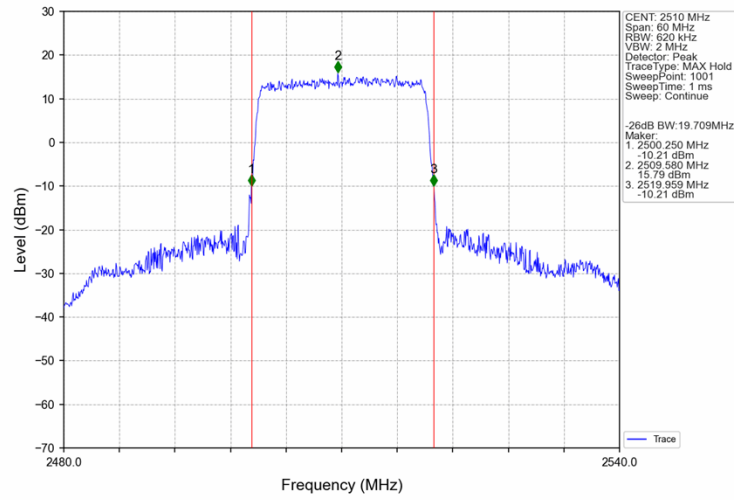
Band7 15MHz 16QAM MCH 2535MHz RB 75 0 NTNV



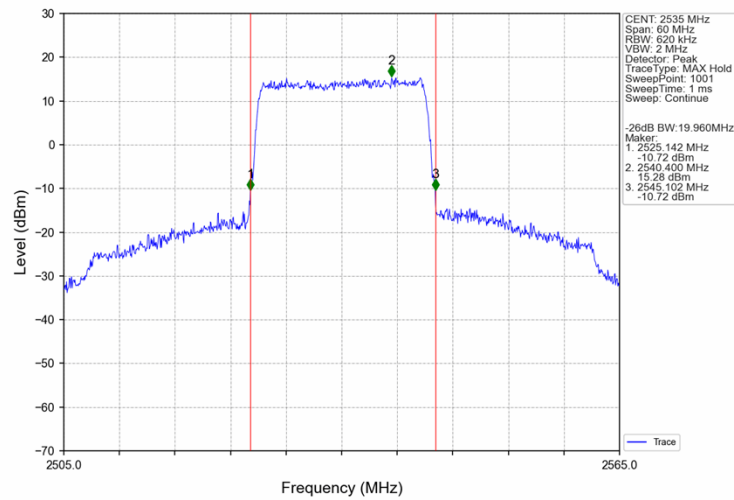
Band7 15MHz 16QAM HCH 2562.5MHz RB 75 0 NTNV



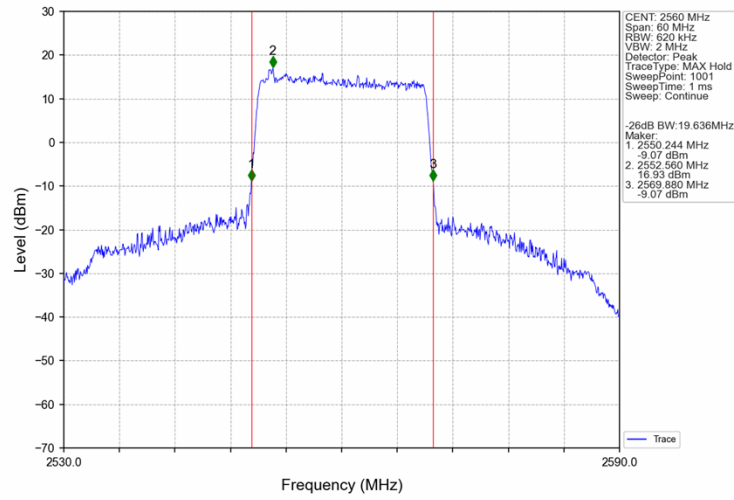
Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV



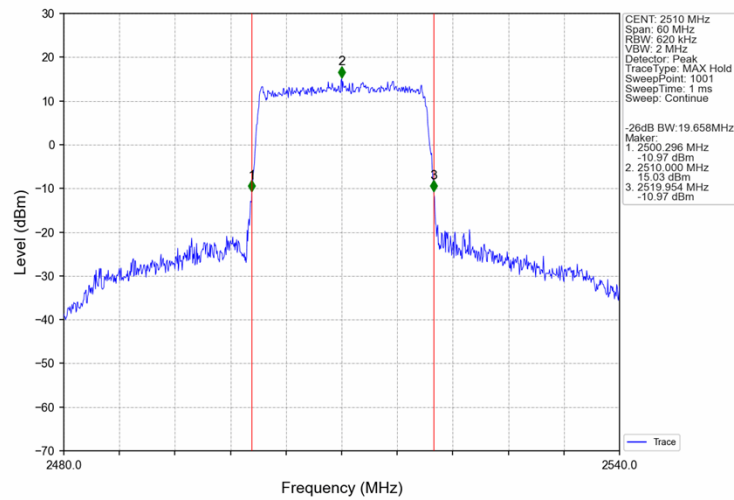
Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV



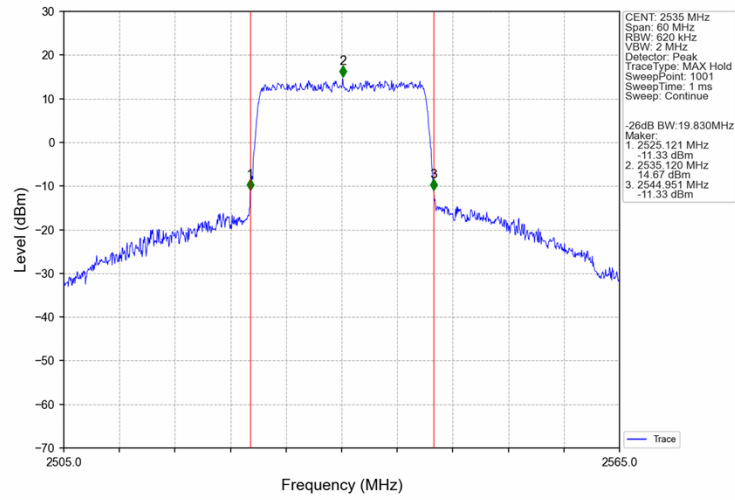
Band7 20MHz QPSK HCH 2560MHz RB 100 0 NTV



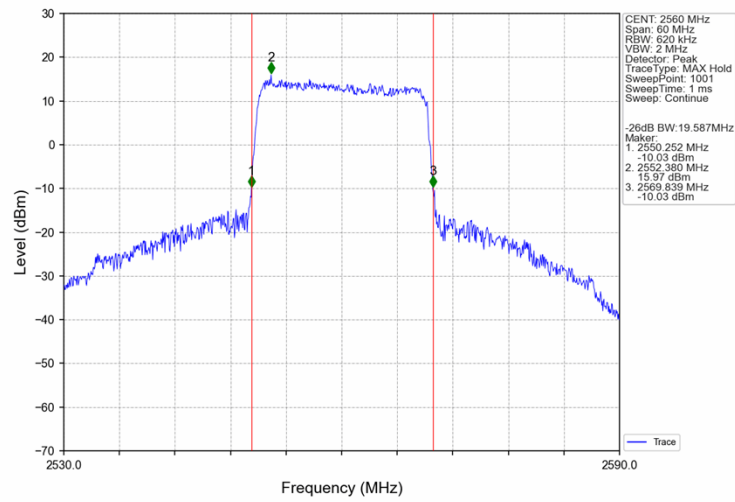
Band7 20MHz 16QAM LCH 2510MHz RB 100 0 NTV



Band7 20MHz 16QAM MCH 2535MHz RB 100 0 NTN



Band7 20MHz 16QAM HCH 2560MHz RB 100 0 NTN



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	5.40	<=13	Pass
	2535	25	0	5.04	<=13	Pass
	2567.5	25	0	5.26	<=13	Pass
16QAM	2502.5	25	0	6.13	<=13	Pass
	2535	25	0	5.76	<=13	Pass
	2567.5	25	0	5.98	<=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	5.31	<=13	Pass
	2535	50	0	4.97	<=13	Pass
	2565	50	0	5.30	<=13	Pass
16QAM	2505	50	0	6.12	<=13	Pass
	2535	50	0	5.78	<=13	Pass
	2565	50	0	6.08	<=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	5.01	<=13	Pass
	2562.5	75	0	5.19	<=13	Pass
16QAM	2507.5	75	0	6.12	<=13	Pass
	2535	75	0	5.97	<=13	Pass
	2562.5	75	0	6.12	<=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	5.63	<=13	Pass
	2535	100	0	5.69	<=13	Pass
	2560	100	0	5.67	<=13	Pass
16QAM	2510	100	0	6.59	<=13	Pass
	2535	100	0	6.57	<=13	Pass
	2560	100	0	6.65	<=13	Pass