

Appendix RF Test Data for LTE band 7

Company: : CHIGEE TECHNOLOGY CO., LTD.
EUT : Smart Riding System
FCC ID : 2A95C-AIO-6LTE
Model Number : AIO-6 LTE
Report No. : HTT2024121247F06
Reviewed By : Heber He

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	23.51	-3.13	20.38	<=33.01	Pass
			13	23.51	-3.13	20.38	<=33.01	Pass
			24	23.88	-3.13	20.75	<=33.01	Pass
		12	0	22.81	-3.13	19.68	<=33.01	Pass
			6	22.76	-3.13	19.63	<=33.01	Pass
			13	22.91	-3.13	19.78	<=33.01	Pass
		25	0	22.64	-3.13	19.51	<=33.01	Pass
	2535	1	0	22.68	-3.13	19.55	<=33.01	Pass
			13	22.60	-3.13	19.47	<=33.01	Pass
			24	22.57	-3.13	19.44	<=33.01	Pass
		12	0	22.64	-3.13	19.51	<=33.01	Pass
			6	22.60	-3.13	19.47	<=33.01	Pass
			13	22.57	-3.13	19.44	<=33.01	Pass
		25	0	22.55	-3.13	19.42	<=33.01	Pass
	2567.5	1	0	22.00	-3.13	18.87	<=33.01	Pass
			13	21.95	-3.13	18.82	<=33.01	Pass
			24	22.23	-3.13	19.10	<=33.01	Pass
		12	0	22.17	-3.13	19.04	<=33.01	Pass
			6	22.08	-3.13	18.95	<=33.01	Pass
			13	22.12	-3.13	18.99	<=33.01	Pass
		25	0	22.06	-3.13	18.93	<=33.01	Pass
16QAM	2502.5	1	0	22.67	-3.13	19.54	<=33.01	Pass
			13	22.62	-3.13	19.49	<=33.01	Pass
			24	23.04	-3.13	19.91	<=33.01	Pass
		12	0	21.76	-3.13	18.63	<=33.01	Pass
			6	21.74	-3.13	18.61	<=33.01	Pass
			13	22.79	-3.13	19.66	<=33.01	Pass
		25	0	22.64	-3.13	19.51	<=33.01	Pass
	2535	1	0	22.52	-3.13	19.39	<=33.01	Pass
			13	22.50	-3.13	19.37	<=33.01	Pass
			24	22.48	-3.13	19.35	<=33.01	Pass
		12	0	22.46	-3.13	19.33	<=33.01	Pass
			6	22.44	-3.13	19.31	<=33.01	Pass
			13	22.43	-3.13	19.30	<=33.01	Pass
		25	0	22.42	-3.13	19.29	<=33.01	Pass
	2567.5	1	0	22.02	-3.13	18.89	<=33.01	Pass
			13	21.97	-3.13	18.84	<=33.01	Pass
			24	21.95	-3.13	18.82	<=33.01	Pass
		12	0	21.92	-3.13	18.79	<=33.01	Pass
6			21.89	-3.13	18.76	<=33.01	Pass	
13			21.93	-3.13	18.80	<=33.01	Pass	
25		0	21.94	-3.13	18.81	<=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	23.37	-3.13	20.24	<=33.01	Pass	
			25	23.64	-3.13	20.51	<=33.01	Pass	
			49	23.76	-3.13	20.63	<=33.01	Pass	
		25	0	22.65	-3.13	19.52	<=33.01	Pass	
			13	22.69	-3.13	19.56	<=33.01	Pass	
			25	23.28	-3.13	20.15	<=33.01	Pass	
		50	0	22.87	-3.13	19.74	<=33.01	Pass	
		2535	1	0	23.29	-3.13	20.16	<=33.01	Pass
				25	23.34	-3.13	20.21	<=33.01	Pass
	49			23.45	-3.13	20.32	<=33.01	Pass	
	25		0	22.60	-3.13	19.47	<=33.01	Pass	
			13	22.48	-3.13	19.35	<=33.01	Pass	
			25	22.59	-3.13	19.46	<=33.01	Pass	
	50	0	22.42	-3.13	19.29	<=33.01	Pass		
	2565	1	0	23.13	-3.13	20.00	<=33.01	Pass	
			25	22.92	-3.13	19.79	<=33.01	Pass	
			49	22.95	-3.13	19.82	<=33.01	Pass	
		25	0	22.30	-3.13	19.17	<=33.01	Pass	
			13	22.04	-3.13	18.91	<=33.01	Pass	
			25	22.56	-3.13	19.43	<=33.01	Pass	
		50	0	21.95	-3.13	18.82	<=33.01	Pass	
16QAM		2505	1	0	22.50	-3.13	19.37	<=33.01	Pass
				25	22.70	-3.13	19.57	<=33.01	Pass
	49			22.84	-3.13	19.71	<=33.01	Pass	
	12		0	22.73	-3.13	19.60	<=33.01	Pass	
			19	22.82	-3.13	19.69	<=33.01	Pass	
			38	23.03	-3.13	19.90	<=33.01	Pass	
	27		0	21.78	-3.13	18.65	<=33.01	Pass	
	2535	1	0	22.42	-3.13	19.29	<=33.01	Pass	
			25	22.51	-3.13	19.38	<=33.01	Pass	
			49	22.65	-3.13	19.52	<=33.01	Pass	
		12	0	22.96	-3.13	19.83	<=33.01	Pass	
			19	22.71	-3.13	19.58	<=33.01	Pass	
			38	22.64	-3.13	19.51	<=33.01	Pass	
	27	0	21.83	-3.13	18.70	<=33.01	Pass		
	2565	1	0	22.15	-3.13	19.02	<=33.01	Pass	
			25	22.04	-3.13	18.91	<=33.01	Pass	
			49	22.26	-3.13	19.13	<=33.01	Pass	
		12	0	22.29	-3.13	19.16	<=33.01	Pass	
			19	22.01	-3.13	18.88	<=33.01	Pass	
			38	22.24	-3.13	19.11	<=33.01	Pass	
		27	23	21.76	-3.13	18.63	<=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	23.78	-3.13	20.65	<=33.01	Pass
			38	24.04	-3.13	20.91	<=33.01	Pass
			74	23.93	-3.13	20.80	<=33.01	Pass
		36	0	23.18	-3.13	20.05	<=33.01	Pass
			18	23.27	-3.13	20.14	<=33.01	Pass
			39	23.29	-3.13	20.16	<=33.01	Pass

16QAM	2535	75	0	22.89	-3.13	19.76	<=33.01	Pass
		1	0	23.35	-3.13	20.22	<=33.01	Pass
			38	23.19	-3.13	20.06	<=33.01	Pass
			74	23.55	-3.13	20.42	<=33.01	Pass
		36	0	22.61	-3.13	19.48	<=33.01	Pass
			18	22.83	-3.13	19.70	<=33.01	Pass
			39	23.15	-3.13	20.02	<=33.01	Pass
		75	0	22.57	-3.13	19.44	<=33.01	Pass
	2562.5	1	0	23.14	-3.13	20.01	<=33.01	Pass
			38	22.78	-3.13	19.65	<=33.01	Pass
			74	23.09	-3.13	19.96	<=33.01	Pass
		36	0	22.45	-3.13	19.32	<=33.01	Pass
			18	22.24	-3.13	19.11	<=33.01	Pass
			39	22.81	-3.13	19.68	<=33.01	Pass
		75	0	22.02	-3.13	18.89	<=33.01	Pass
	2507.5	1	0	22.76	-3.13	19.63	<=33.01	Pass
			38	23.06	-3.13	19.93	<=33.01	Pass
			74	23.03	-3.13	19.90	<=33.01	Pass
		12	0	22.79	-3.13	19.66	<=33.01	Pass
			31	22.87	-3.13	19.74	<=33.01	Pass
			63	23.07	-3.13	19.94	<=33.01	Pass
		27	0	22.01	-3.13	18.88	<=33.01	Pass
	2535	1	0	22.93	-3.13	19.80	<=33.01	Pass
			38	22.80	-3.13	19.67	<=33.01	Pass
			74	23.04	-3.13	19.91	<=33.01	Pass
		12	0	22.65	-3.13	19.52	<=33.01	Pass
			31	22.41	-3.13	19.28	<=33.01	Pass
			63	22.68	-3.13	19.55	<=33.01	Pass
		27	0	21.72	-3.13	18.59	<=33.01	Pass
	2562.5	1	0	22.33	-3.13	19.20	<=33.01	Pass
			38	22.81	-3.13	19.68	<=33.01	Pass
			74	23.22	-3.13	20.09	<=33.01	Pass
		12	0	22.88	-3.13	19.75	<=33.01	Pass
			31	22.54	-3.13	19.41	<=33.01	Pass
			63	22.92	-3.13	19.79	<=33.01	Pass
		27	48	22.35	-3.13	19.22	<=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	23.66	-3.13	20.53	<=33.01	Pass
			50	24.21	-3.13	21.08	<=33.01	Pass
			99	23.85	-3.13	20.72	<=33.01	Pass
		50	0	23.26	-3.13	20.13	<=33.01	Pass
			25	23.52	-3.13	20.39	<=33.01	Pass
			50	23.66	-3.13	20.53	<=33.01	Pass
		100	0	22.95	-3.13	19.82	<=33.01	Pass
	2535	1	0	23.73	-3.13	20.60	<=33.01	Pass
			50	23.64	-3.13	20.51	<=33.01	Pass
			99	23.77	-3.13	20.64	<=33.01	Pass
		50	0	23.06	-3.13	19.93	<=33.01	Pass
			25	22.90	-3.13	19.77	<=33.01	Pass
			50	23.47	-3.13	20.34	<=33.01	Pass
		100	0	22.56	-3.13	19.43	<=33.01	Pass

	2560	1	0	23.68	-3.13	20.55	<=33.01	Pass		
			50	23.63	-3.13	20.50	<=33.01	Pass		
			99	23.68	-3.13	20.55	<=33.01	Pass		
		50	0	22.79	-3.13	19.66	<=33.01	Pass		
			25	22.69	-3.13	19.56	<=33.01	Pass		
			50	23.59	-3.13	20.46	<=33.01	Pass		
		100	0	22.39	-3.13	19.26	<=33.01	Pass		
		16QAM	2510	1	0	22.96	-3.13	19.83	<=33.01	Pass
					50	23.53	-3.13	20.40	<=33.01	Pass
99	23.12				-3.13	19.99	<=33.01	Pass		
12	0			22.98	-3.13	19.85	<=33.01	Pass		
	44			23.32	-3.13	20.19	<=33.01	Pass		
	88			23.17	-3.13	20.04	<=33.01	Pass		
27	0			22.19	-3.13	19.06	<=33.01	Pass		
2535	1			0	22.97	-3.13	19.84	<=33.01	Pass	
				50	22.93	-3.13	19.80	<=33.01	Pass	
			99	23.10	-3.13	19.97	<=33.01	Pass		
	12		0	22.84	-3.13	19.71	<=33.01	Pass		
			44	22.65	-3.13	19.52	<=33.01	Pass		
			88	22.99	-3.13	19.86	<=33.01	Pass		
	27		0	22.06	-3.13	18.93	<=33.01	Pass		
	2560		1	0	22.78	-3.13	19.65	<=33.01	Pass	
				50	22.79	-3.13	19.66	<=33.01	Pass	
99				22.98	-3.13	19.85	<=33.01	Pass		
12			0	22.68	-3.13	19.55	<=33.01	Pass		
			44	22.51	-3.13	19.38	<=33.01	Pass		
			88	22.81	-3.13	19.68	<=33.01	Pass		
27			73	22.17	-3.13	19.04	<=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	10.8	22.230	0.0089	-2.5 to 2.5	Pass
					12	20.013	0.0080	-2.5 to 2.5	Pass
					19.8	15.922	0.0064	-2.5 to 2.5	Pass
				-30	12	15.078	0.0060	-2.5 to 2.5	Pass
				-20	12	12.589	0.0050	-2.5 to 2.5	Pass
				-10	12	11.258	0.0045	-2.5 to 2.5	Pass
				0	12	11.473	0.0046	-2.5 to 2.5	Pass
				10	12	7.997	0.0032	-2.5 to 2.5	Pass
				30	12	6.537	0.0026	-2.5 to 2.5	Pass
				40	12	7.238	0.0029	-2.5 to 2.5	Pass
				50	12	6.666	0.0027	-2.5 to 2.5	Pass
	2535	25	0	20	10.8	-0.114	0.0000	-2.5 to 2.5	Pass
					12	9.770	0.0039	-2.5 to 2.5	Pass
					19.8	5.708	0.0023	-2.5 to 2.5	Pass
				-30	12	4.978	0.0020	-2.5 to 2.5	Pass
				-20	12	4.578	0.0018	-2.5 to 2.5	Pass
				-10	12	6.151	0.0024	-2.5 to 2.5	Pass

				0	12	49.839	0.0197	-2.5 to 2.5	Pass
				10	12	37.951	0.0150	-2.5 to 2.5	Pass
				30	12	13.103	0.0052	-2.5 to 2.5	Pass
				40	12	11.301	0.0045	-2.5 to 2.5	Pass
				50	12	8.397	0.0033	-2.5 to 2.5	Pass
	2567.5	25	0	20	10.8	7.124	0.0028	-2.5 to 2.5	Pass
					12	10.386	0.0040	-2.5 to 2.5	Pass
					19.8	5.507	0.0021	-2.5 to 2.5	Pass
				-30	12	5.178	0.0020	-2.5 to 2.5	Pass
				-20	12	7.710	0.0030	-2.5 to 2.5	Pass
				-10	12	5.980	0.0023	-2.5 to 2.5	Pass
				0	12	6.022	0.0023	-2.5 to 2.5	Pass
				10	12	6.866	0.0027	-2.5 to 2.5	Pass
				30	12	4.907	0.0019	-2.5 to 2.5	Pass
				40	12	6.852	0.0027	-2.5 to 2.5	Pass
				50	12	5.965	0.0023	-2.5 to 2.5	Pass
16QAM	2502.5	25	0	20	10.8	1.144	0.0005	-2.5 to 2.5	Pass
					12	6.309	0.0025	-2.5 to 2.5	Pass
					19.8	7.811	0.0031	-2.5 to 2.5	Pass
				-30	12	8.211	0.0033	-2.5 to 2.5	Pass
				-20	12	7.911	0.0032	-2.5 to 2.5	Pass
				-10	12	6.909	0.0028	-2.5 to 2.5	Pass
				0	12	6.738	0.0027	-2.5 to 2.5	Pass
				10	12	8.039	0.0032	-2.5 to 2.5	Pass
				30	12	5.307	0.0021	-2.5 to 2.5	Pass
				40	12	6.237	0.0025	-2.5 to 2.5	Pass
				50	12	6.895	0.0028	-2.5 to 2.5	Pass
	2535	25	0	20	10.8	9.384	0.0037	-2.5 to 2.5	Pass
					12	6.194	0.0024	-2.5 to 2.5	Pass
					19.8	6.080	0.0024	-2.5 to 2.5	Pass
				-30	12	5.994	0.0024	-2.5 to 2.5	Pass
				-20	12	6.766	0.0027	-2.5 to 2.5	Pass
				-10	12	4.592	0.0018	-2.5 to 2.5	Pass
				0	12	4.592	0.0018	-2.5 to 2.5	Pass
				10	12	7.324	0.0029	-2.5 to 2.5	Pass
				30	12	6.037	0.0024	-2.5 to 2.5	Pass
				40	12	5.050	0.0020	-2.5 to 2.5	Pass
				50	12	5.250	0.0021	-2.5 to 2.5	Pass
	2567.5	25	0	20	10.8	5.350	0.0021	-2.5 to 2.5	Pass
					12	5.894	0.0023	-2.5 to 2.5	Pass
					19.8	6.824	0.0027	-2.5 to 2.5	Pass
				-30	12	7.668	0.0030	-2.5 to 2.5	Pass
				-20	12	6.080	0.0024	-2.5 to 2.5	Pass
				-10	12	8.254	0.0032	-2.5 to 2.5	Pass
				0	12	7.324	0.0029	-2.5 to 2.5	Pass
				10	12	7.868	0.0031	-2.5 to 2.5	Pass
				30	12	8.955	0.0035	-2.5 to 2.5	Pass
				40	12	7.038	0.0027	-2.5 to 2.5	Pass
				50	12	6.866	0.0027	-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	10.8	25.249	0.0101	-2.5 to 2.5	Pass
					12	8.526	0.0034	-2.5 to 2.5	Pass

					19.8	8.011	0.0032	-2.5 to 2.5	Pass
				-30	12	8.740	0.0035	-2.5 to 2.5	Pass
				-20	12	6.695	0.0027	-2.5 to 2.5	Pass
				-10	12	4.921	0.0020	-2.5 to 2.5	Pass
				0	12	9.828	0.0039	-2.5 to 2.5	Pass
				10	12	9.041	0.0036	-2.5 to 2.5	Pass
				30	12	8.798	0.0035	-2.5 to 2.5	Pass
				40	12	6.938	0.0028	-2.5 to 2.5	Pass
				50	12	7.110	0.0028	-2.5 to 2.5	Pass
	2535	50	0	20	10.8	9.112	0.0036	-2.5 to 2.5	Pass
					12	5.436	0.0021	-2.5 to 2.5	Pass
					19.8	5.307	0.0021	-2.5 to 2.5	Pass
				-30	12	5.550	0.0022	-2.5 to 2.5	Pass
				-20	12	4.807	0.0019	-2.5 to 2.5	Pass
				-10	12	4.792	0.0019	-2.5 to 2.5	Pass
				0	12	4.692	0.0019	-2.5 to 2.5	Pass
				10	12	5.221	0.0021	-2.5 to 2.5	Pass
				30	12	5.937	0.0023	-2.5 to 2.5	Pass
				40	12	49.253	0.0194	-2.5 to 2.5	Pass
				50	12	12.417	0.0049	-2.5 to 2.5	Pass
	2565	50	0	20	10.8	11.830	0.0046	-2.5 to 2.5	Pass
					12	6.323	0.0025	-2.5 to 2.5	Pass
					19.8	7.596	0.0030	-2.5 to 2.5	Pass
				-30	12	5.851	0.0023	-2.5 to 2.5	Pass
				-20	12	5.078	0.0020	-2.5 to 2.5	Pass
				-10	12	5.121	0.0020	-2.5 to 2.5	Pass
				0	12	5.908	0.0023	-2.5 to 2.5	Pass
				10	12	4.835	0.0019	-2.5 to 2.5	Pass
				30	12	5.980	0.0023	-2.5 to 2.5	Pass
				40	12	6.280	0.0024	-2.5 to 2.5	Pass
				50	12	53.473	0.0208	-2.5 to 2.5	Pass
16QAM	2505	27	0	20	10.8	8.068	0.0032	-2.5 to 2.5	Pass
					12	36.650	0.0146	-2.5 to 2.5	Pass
					19.8	12.603	0.0050	-2.5 to 2.5	Pass
				-30	12	11.172	0.0045	-2.5 to 2.5	Pass
				-20	12	9.456	0.0038	-2.5 to 2.5	Pass
				-10	12	8.869	0.0035	-2.5 to 2.5	Pass
				0	12	6.723	0.0027	-2.5 to 2.5	Pass
				10	12	8.583	0.0034	-2.5 to 2.5	Pass
				30	12	6.180	0.0025	-2.5 to 2.5	Pass
				40	12	6.409	0.0026	-2.5 to 2.5	Pass
				50	12	7.539	0.0030	-2.5 to 2.5	Pass
	2535	27	0	20	10.8	11.044	0.0044	-2.5 to 2.5	Pass
					12	10.843	0.0043	-2.5 to 2.5	Pass
					19.8	7.553	0.0030	-2.5 to 2.5	Pass
				-30	12	6.409	0.0025	-2.5 to 2.5	Pass
				-20	12	6.323	0.0025	-2.5 to 2.5	Pass
				-10	12	7.753	0.0031	-2.5 to 2.5	Pass
				0	12	7.267	0.0029	-2.5 to 2.5	Pass
				10	12	5.651	0.0022	-2.5 to 2.5	Pass
				30	12	5.836	0.0023	-2.5 to 2.5	Pass
				40	12	5.407	0.0021	-2.5 to 2.5	Pass
				50	12	3.648	0.0014	-2.5 to 2.5	Pass
	2565	27	23	20	10.8	35.605	0.0139	-2.5 to 2.5	Pass
					12	10.715	0.0042	-2.5 to 2.5	Pass
					19.8	8.311	0.0032	-2.5 to 2.5	Pass
				-30	12	9.341	0.0036	-2.5 to 2.5	Pass
				-20	12	6.180	0.0024	-2.5 to 2.5	Pass
				-10	12	7.610	0.0030	-2.5 to 2.5	Pass

				0	12	6.437	0.0025	-2.5 to 2.5	Pass
				10	12	8.297	0.0032	-2.5 to 2.5	Pass
				30	12	7.110	0.0028	-2.5 to 2.5	Pass
				40	12	4.935	0.0019	-2.5 to 2.5	Pass
				50	12	7.596	0.0030	-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	10.8	38.939	0.0155	-2.5 to 2.5	Pass
					12	10.386	0.0041	-2.5 to 2.5	Pass
					19.8	6.938	0.0028	-2.5 to 2.5	Pass
				-30	12	7.868	0.0031	-2.5 to 2.5	Pass
				-20	12	6.566	0.0026	-2.5 to 2.5	Pass
				-10	12	5.765	0.0023	-2.5 to 2.5	Pass
				0	12	6.752	0.0027	-2.5 to 2.5	Pass
				10	12	5.922	0.0024	-2.5 to 2.5	Pass
				30	12	7.768	0.0031	-2.5 to 2.5	Pass
				40	12	-0.343	-0.0001	-2.5 to 2.5	Pass
				50	12	36.163	0.0144	-2.5 to 2.5	Pass
	2535	75	0	20	10.8	11.716	0.0046	-2.5 to 2.5	Pass
					12	8.426	0.0033	-2.5 to 2.5	Pass
					19.8	7.410	0.0029	-2.5 to 2.5	Pass
				-30	12	8.841	0.0035	-2.5 to 2.5	Pass
				-20	12	7.968	0.0031	-2.5 to 2.5	Pass
				-10	12	5.536	0.0022	-2.5 to 2.5	Pass
				0	12	5.651	0.0022	-2.5 to 2.5	Pass
				10	12	6.695	0.0026	-2.5 to 2.5	Pass
				30	12	7.682	0.0030	-2.5 to 2.5	Pass
				40	12	5.507	0.0022	-2.5 to 2.5	Pass
				50	12	6.666	0.0026	-2.5 to 2.5	Pass
	2562.5	75	0	20	10.8	12.345	0.0048	-2.5 to 2.5	Pass
					12	7.825	0.0031	-2.5 to 2.5	Pass
					19.8	7.052	0.0028	-2.5 to 2.5	Pass
				-30	12	5.894	0.0023	-2.5 to 2.5	Pass
				-20	12	6.938	0.0027	-2.5 to 2.5	Pass
				-10	12	5.279	0.0021	-2.5 to 2.5	Pass
				0	12	6.952	0.0027	-2.5 to 2.5	Pass
				10	12	5.279	0.0021	-2.5 to 2.5	Pass
				30	12	6.781	0.0026	-2.5 to 2.5	Pass
				40	12	7.596	0.0030	-2.5 to 2.5	Pass
				50	12	7.653	0.0030	-2.5 to 2.5	Pass
16QAM	2507.5	27	0	20	10.8	11.845	0.0047	-2.5 to 2.5	Pass
					12	10.800	0.0043	-2.5 to 2.5	Pass
					19.8	11.501	0.0046	-2.5 to 2.5	Pass
				-30	12	6.151	0.0025	-2.5 to 2.5	Pass
				-20	12	10.428	0.0042	-2.5 to 2.5	Pass
				-10	12	7.854	0.0031	-2.5 to 2.5	Pass
				0	12	9.098	0.0036	-2.5 to 2.5	Pass
				10	12	9.985	0.0040	-2.5 to 2.5	Pass
				30	12	11.401	0.0045	-2.5 to 2.5	Pass
				40	12	6.323	0.0025	-2.5 to 2.5	Pass
				50	12	6.981	0.0028	-2.5 to 2.5	Pass
	2535	27	0	20	10.8	54.660	0.0216	-2.5 to 2.5	Pass
					12	35.563	0.0140	-2.5 to 2.5	Pass

					19.8	11.830	0.0047	-2.5 to 2.5	Pass
				-30	12	12.045	0.0048	-2.5 to 2.5	Pass
				-20	12	7.353	0.0029	-2.5 to 2.5	Pass
				-10	12	4.377	0.0017	-2.5 to 2.5	Pass
				0	12	7.610	0.0030	-2.5 to 2.5	Pass
				10	12	5.035	0.0020	-2.5 to 2.5	Pass
				30	12	6.065	0.0024	-2.5 to 2.5	Pass
				40	12	7.110	0.0028	-2.5 to 2.5	Pass
				50	12	6.495	0.0026	-2.5 to 2.5	Pass
	2562.5	27	48	20	10.8	5.164	0.0020	-2.5 to 2.5	Pass
					12	39.554	0.0154	-2.5 to 2.5	Pass
					19.8	12.560	0.0049	-2.5 to 2.5	Pass
				-30	12	11.673	0.0046	-2.5 to 2.5	Pass
				-20	12	10.486	0.0041	-2.5 to 2.5	Pass
				-10	12	8.197	0.0032	-2.5 to 2.5	Pass
				0	12	6.552	0.0026	-2.5 to 2.5	Pass
				10	12	6.866	0.0027	-2.5 to 2.5	Pass
				30	12	6.237	0.0024	-2.5 to 2.5	Pass
				40	12	6.237	0.0024	-2.5 to 2.5	Pass
				50	12	7.453	0.0029	-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	10.8	35.934	0.0143	-2.5 to 2.5	Pass
					12	8.626	0.0034	-2.5 to 2.5	Pass
					19.8	5.708	0.0023	-2.5 to 2.5	Pass
				-30	12	5.994	0.0024	-2.5 to 2.5	Pass
				-20	12	4.792	0.0019	-2.5 to 2.5	Pass
				-10	12	6.380	0.0025	-2.5 to 2.5	Pass
				0	12	25.134	0.0100	-2.5 to 2.5	Pass
				10	12	10.400	0.0041	-2.5 to 2.5	Pass
				30	12	7.782	0.0031	-2.5 to 2.5	Pass
				40	12	11.745	0.0047	-2.5 to 2.5	Pass
				50	12	9.141	0.0036	-2.5 to 2.5	Pass
	2535	100	0	20	10.8	11.187	0.0044	-2.5 to 2.5	Pass
					12	7.954	0.0031	-2.5 to 2.5	Pass
					19.8	4.549	0.0018	-2.5 to 2.5	Pass
				-30	12	7.668	0.0030	-2.5 to 2.5	Pass
				-20	12	39.611	0.0156	-2.5 to 2.5	Pass
				-10	12	12.460	0.0049	-2.5 to 2.5	Pass
				0	12	9.513	0.0038	-2.5 to 2.5	Pass
				10	12	8.097	0.0032	-2.5 to 2.5	Pass
				30	12	5.636	0.0022	-2.5 to 2.5	Pass
				40	12	6.795	0.0027	-2.5 to 2.5	Pass
				50	12	7.782	0.0031	-2.5 to 2.5	Pass
	2560	100	0	20	10.8	10.686	0.0042	-2.5 to 2.5	Pass
					12	6.609	0.0026	-2.5 to 2.5	Pass
					19.8	41.957	0.0164	-2.5 to 2.5	Pass
				-30	12	13.275	0.0052	-2.5 to 2.5	Pass
				-20	12	8.712	0.0034	-2.5 to 2.5	Pass
				-10	12	8.183	0.0032	-2.5 to 2.5	Pass
				0	12	7.968	0.0031	-2.5 to 2.5	Pass
				10	12	7.782	0.0030	-2.5 to 2.5	Pass
				30	12	5.393	0.0021	-2.5 to 2.5	Pass

16QAM	2510	27	0	40	12	6.652	0.0026	-2.5 to 2.5	Pass
				50	12	4.964	0.0019	-2.5 to 2.5	Pass
				20	10.8	8.826	0.0035	-2.5 to 2.5	Pass
					12	6.552	0.0026	-2.5 to 2.5	Pass
					19.8	8.483	0.0034	-2.5 to 2.5	Pass
				-30	12	8.984	0.0036	-2.5 to 2.5	Pass
				-20	12	6.108	0.0024	-2.5 to 2.5	Pass
				-10	12	5.808	0.0023	-2.5 to 2.5	Pass
				0	12	9.899	0.0039	-2.5 to 2.5	Pass
				10	12	4.978	0.0020	-2.5 to 2.5	Pass
				30	12	7.467	0.0030	-2.5 to 2.5	Pass
				40	12	6.123	0.0024	-2.5 to 2.5	Pass
				50	12	5.450	0.0022	-2.5 to 2.5	Pass
	2535	27	0	20	10.8	6.895	0.0027	-2.5 to 2.5	Pass
					12	5.221	0.0021	-2.5 to 2.5	Pass
					19.8	4.363	0.0017	-2.5 to 2.5	Pass
				-30	12	5.679	0.0022	-2.5 to 2.5	Pass
				-20	12	5.536	0.0022	-2.5 to 2.5	Pass
				-10	12	4.420	0.0017	-2.5 to 2.5	Pass
				0	12	4.449	0.0018	-2.5 to 2.5	Pass
				10	12	5.665	0.0022	-2.5 to 2.5	Pass
				30	12	4.220	0.0017	-2.5 to 2.5	Pass
				40	12	6.537	0.0026	-2.5 to 2.5	Pass
				50	12	4.549	0.0018	-2.5 to 2.5	Pass
	2560	27	73	20	10.8	4.191	0.0016	-2.5 to 2.5	Pass
					12	5.121	0.0020	-2.5 to 2.5	Pass
					19.8	6.137	0.0024	-2.5 to 2.5	Pass
				-30	12	5.364	0.0021	-2.5 to 2.5	Pass
				-20	12	4.792	0.0019	-2.5 to 2.5	Pass
				-10	12	2.847	0.0011	-2.5 to 2.5	Pass
				0	12	5.078	0.0020	-2.5 to 2.5	Pass
				10	12	4.592	0.0018	-2.5 to 2.5	Pass
				30	12	3.219	0.0013	-2.5 to 2.5	Pass
				40	12	5.364	0.0021	-2.5 to 2.5	Pass
				50	12	4.764	0.0019	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz / NTV						
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 / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	50	0	Refer To Test Graph		Pass
16QAM	2535	27	0	Refer To Test Graph		Pass

3.1.3 B7_15MHz

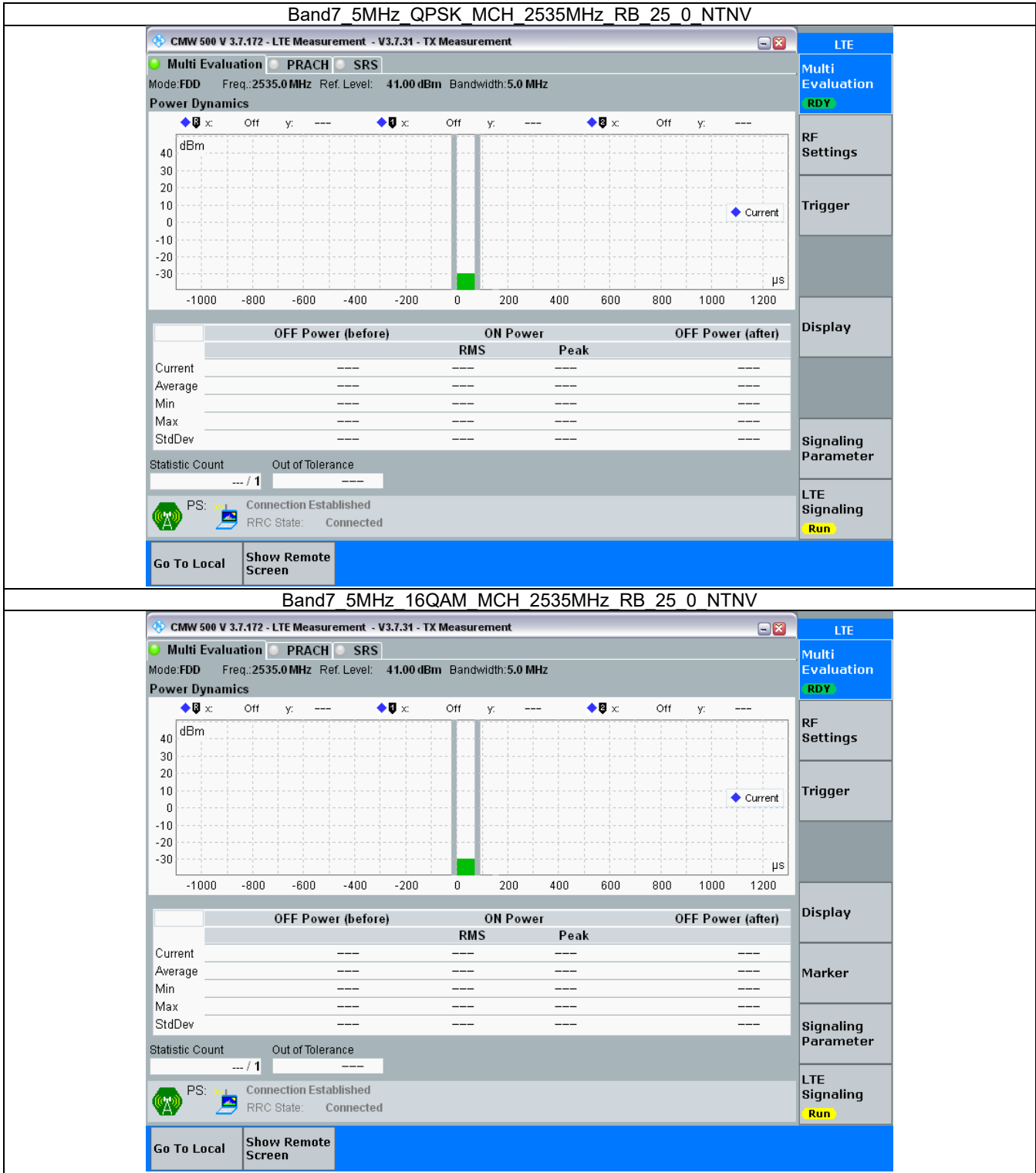
Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	75	0	Refer To Test Graph		Pass
16QAM	2535	27	0	Refer To Test Graph		Pass

3.1.4 B7_20MHz

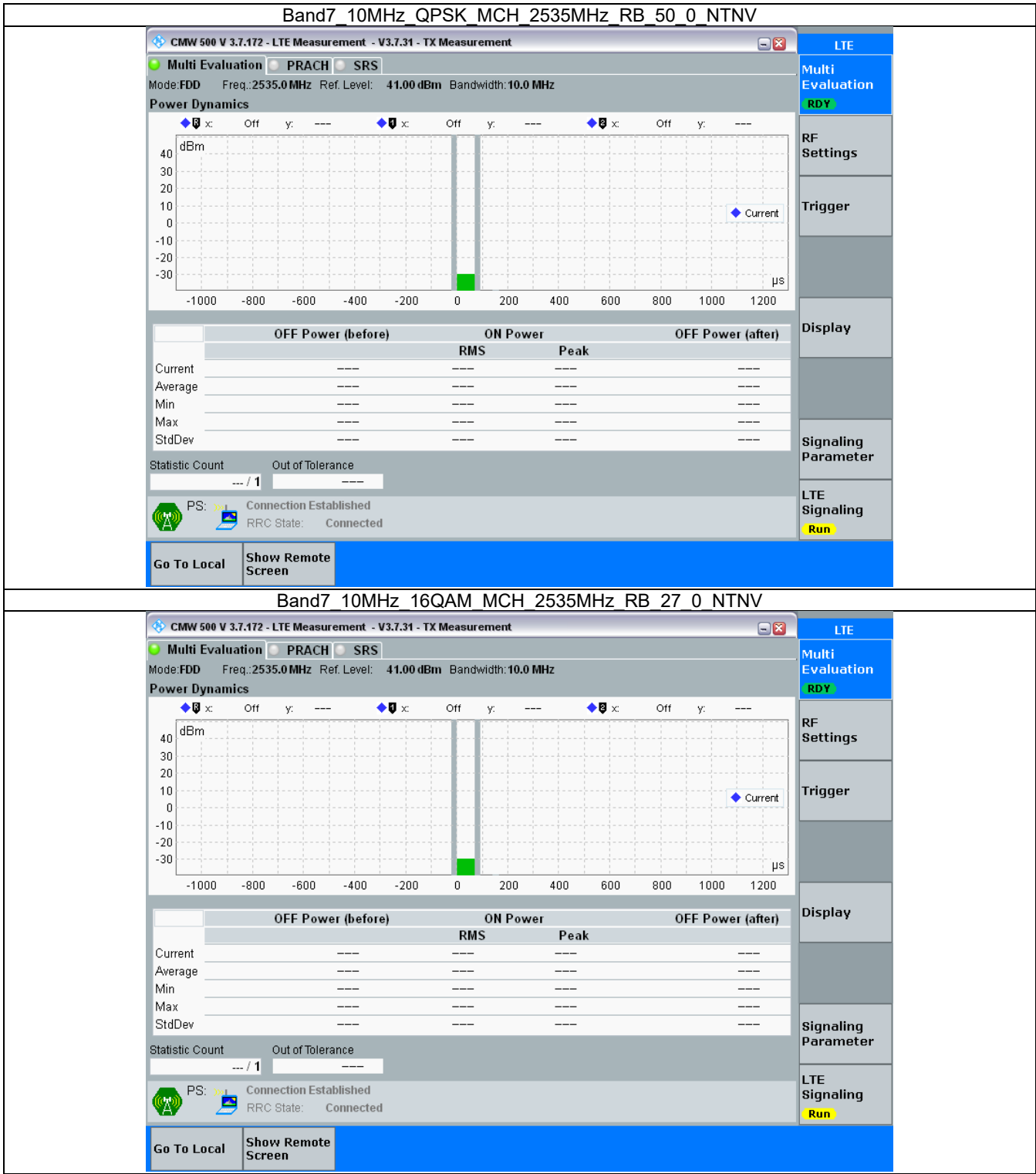
Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	100	0	Refer To Test Graph		Pass
16QAM	2535	27	0	Refer To Test Graph		Pass

3.2 Test Graph

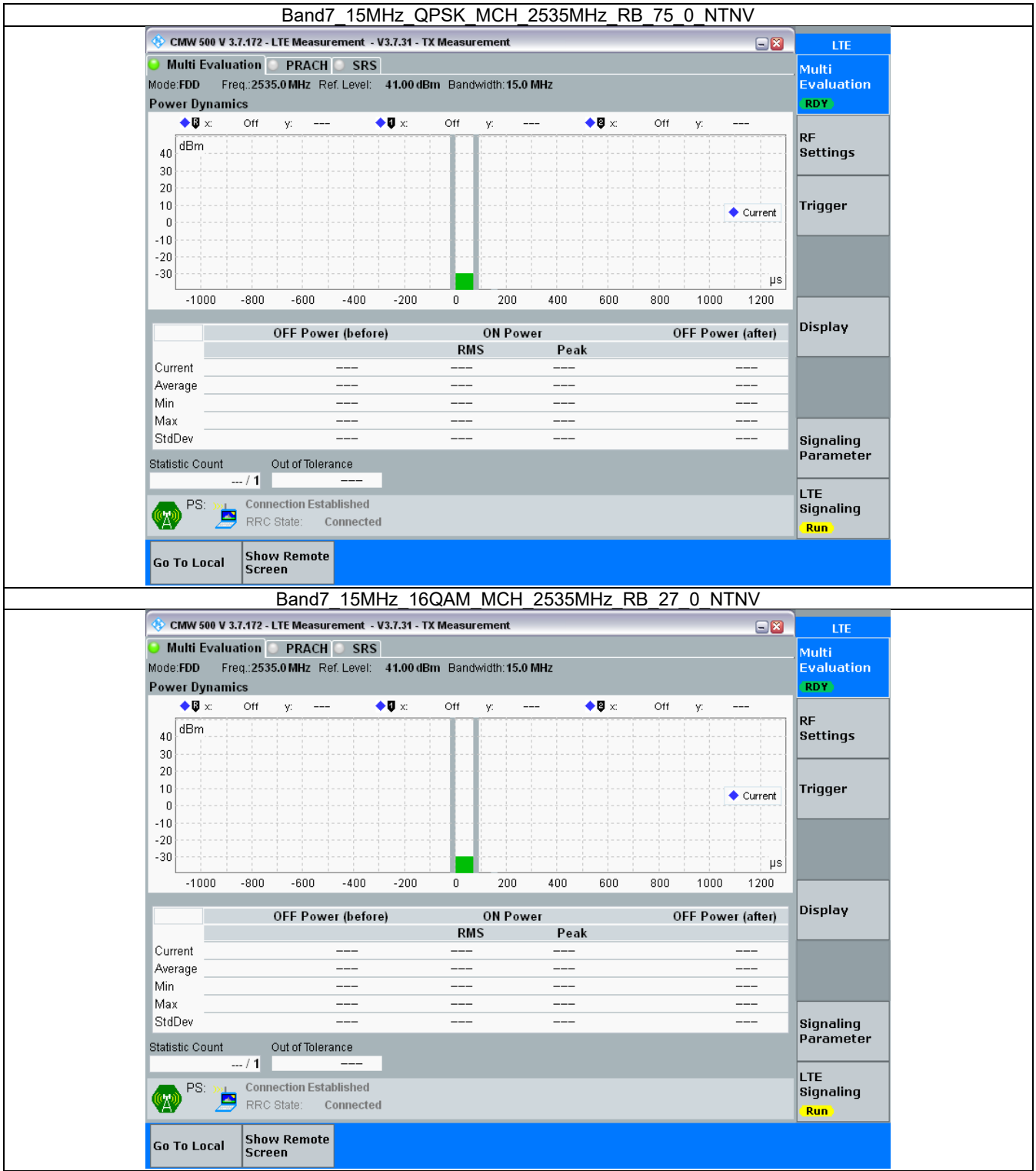
3.2.1 B7_5MHz



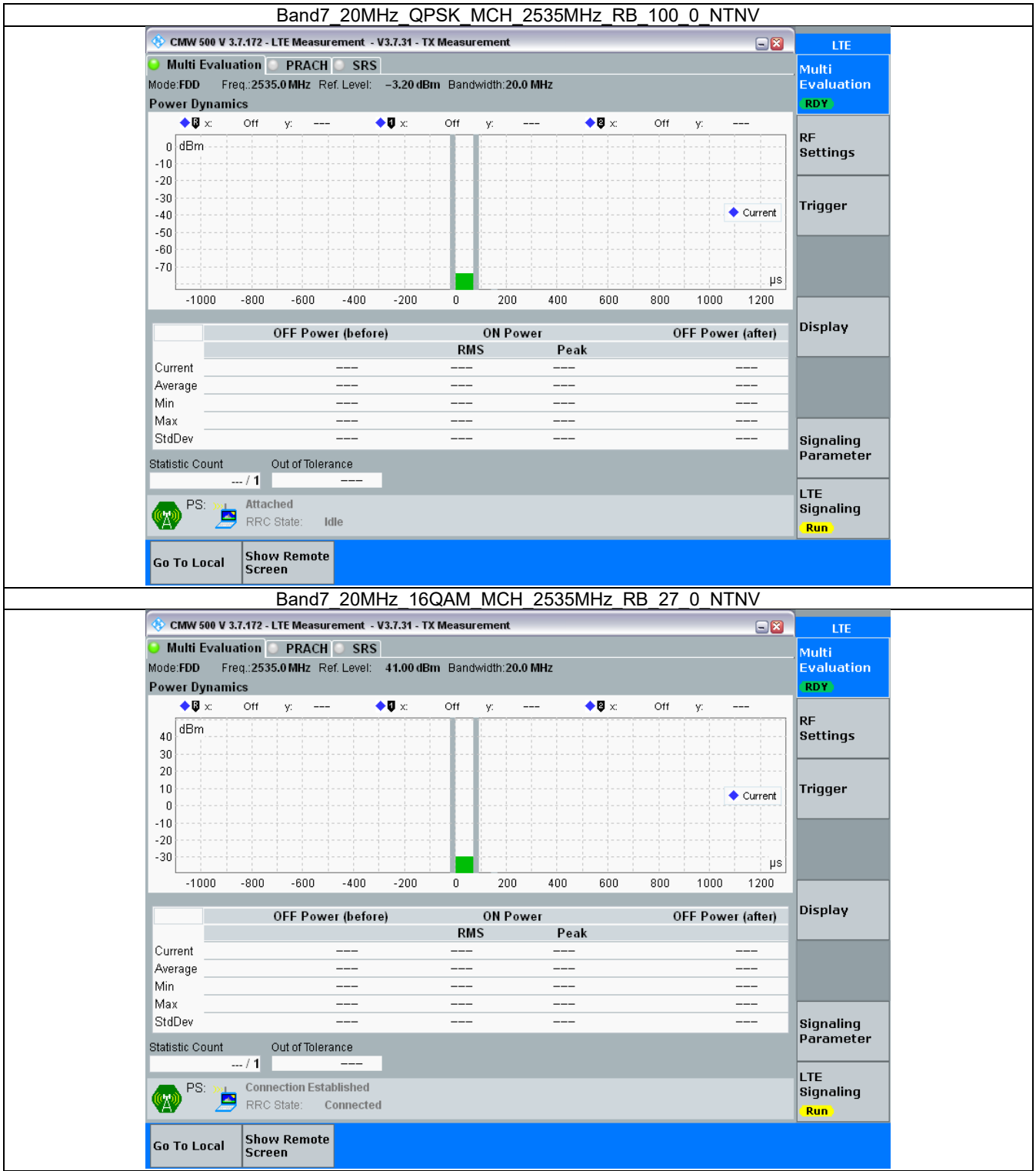
3.2.2 B7_10MHz



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	4.534	/	Pass
		2535	25	0	4.545	/	Pass
		2567.5	25	0	4.552	/	Pass
	16QAM	2502.5	25	0	4.524	/	Pass
		2535	25	0	4.534	/	Pass
		2567.5	25	0	4.540	/	Pass
10	QPSK	2505	50	0	9.010	/	Pass
		2535	50	0	8.987	/	Pass
		2565	50	0	9.025	/	Pass
	16QAM	2505	27	0	9.012	/	Pass
		2535	27	0	9.011	/	Pass
		2565	27	23	8.973	/	Pass
15	QPSK	2507.5	75	0	13.694	/	Pass
		2535	75	0	13.719	/	Pass
		2562.5	75	0	13.738	/	Pass
	16QAM	2507.5	27	0	6.600	/	Pass
		2535	27	0	6.498	/	Pass
		2562.5	27	48	13.681	/	Pass
20	QPSK	2510	100	0	18.182	/	Pass
		2535	100	0	18.175	/	Pass
		2560	100	0	18.123	/	Pass
	16QAM	2510	27	0	8.466	/	Pass
		2535	27	0	7.574	/	Pass
		2560	27	73	17.471	/	Pass

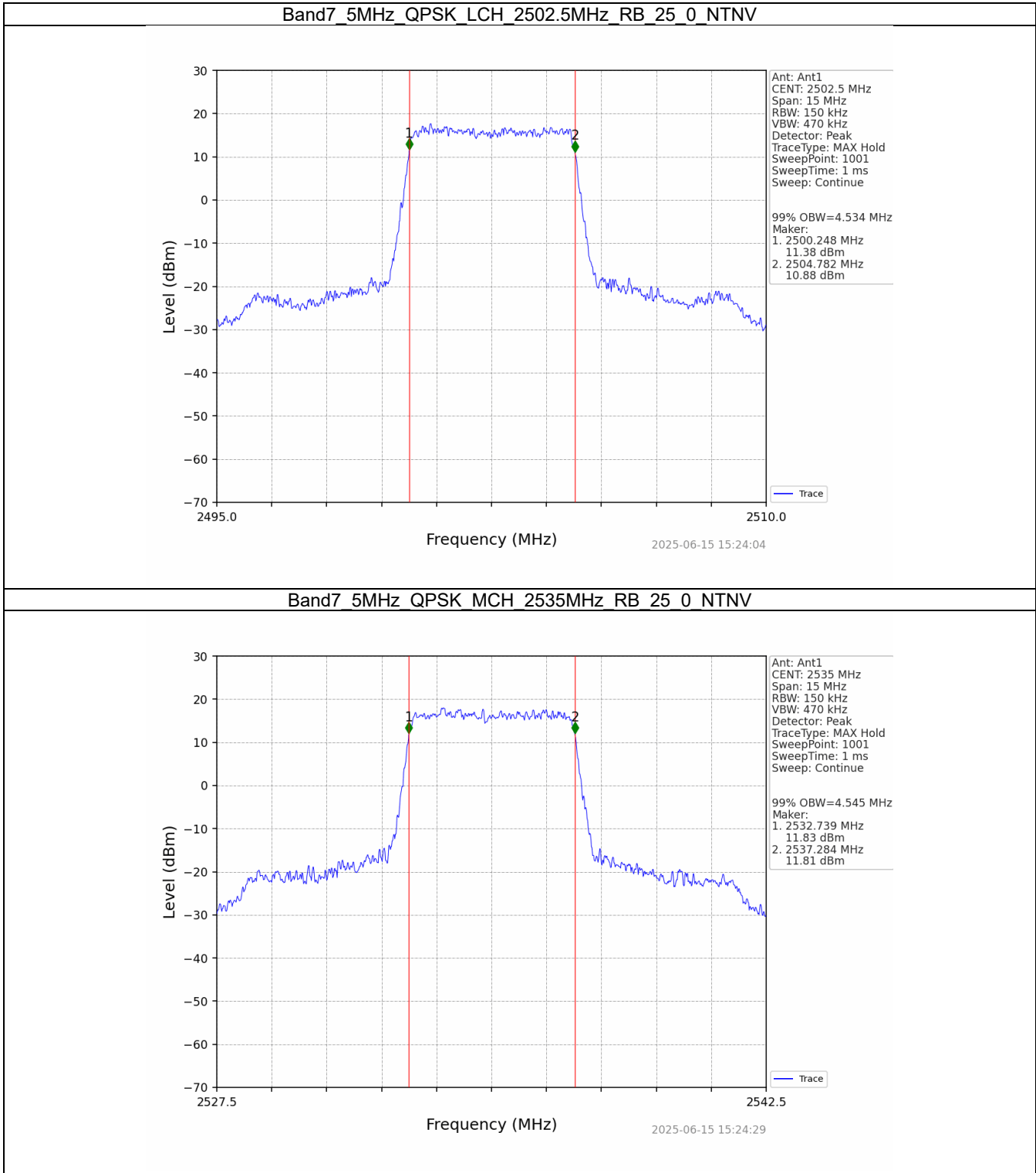
4.1.2 Band7_XDB

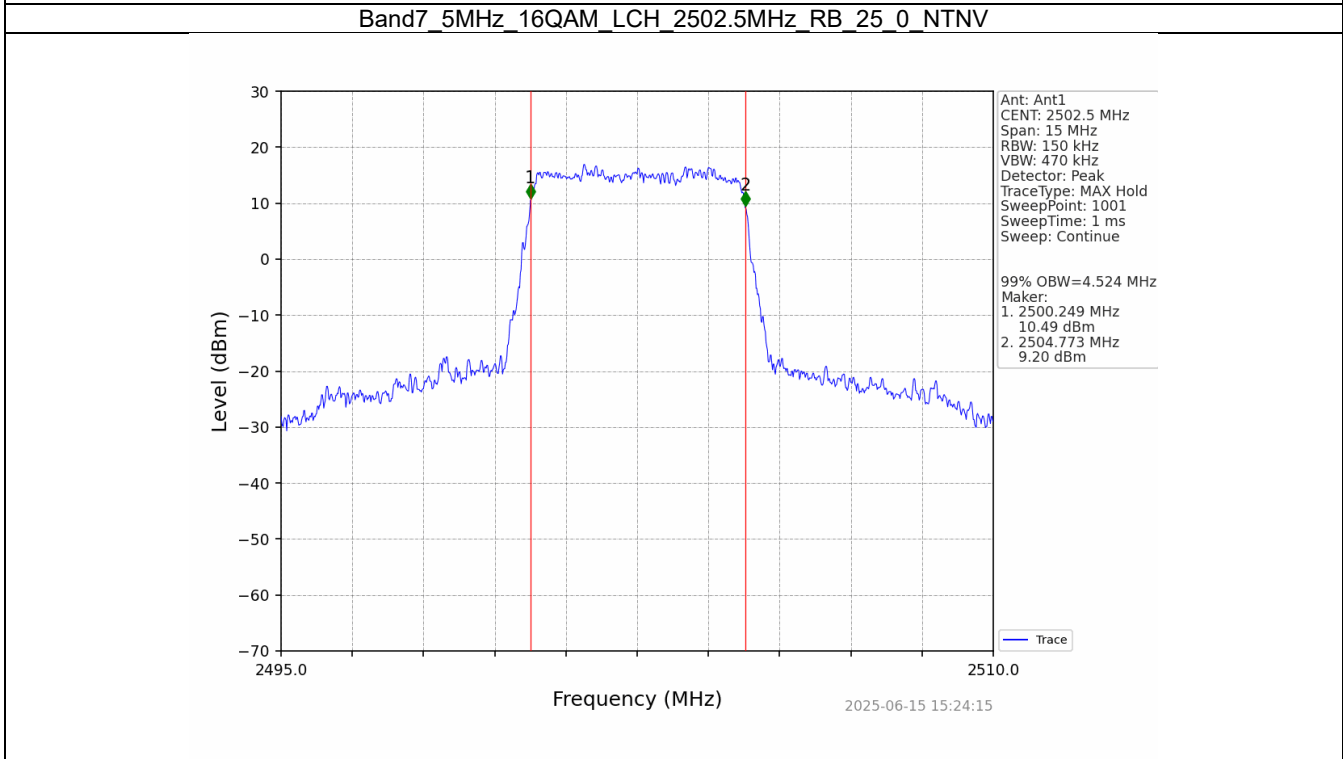
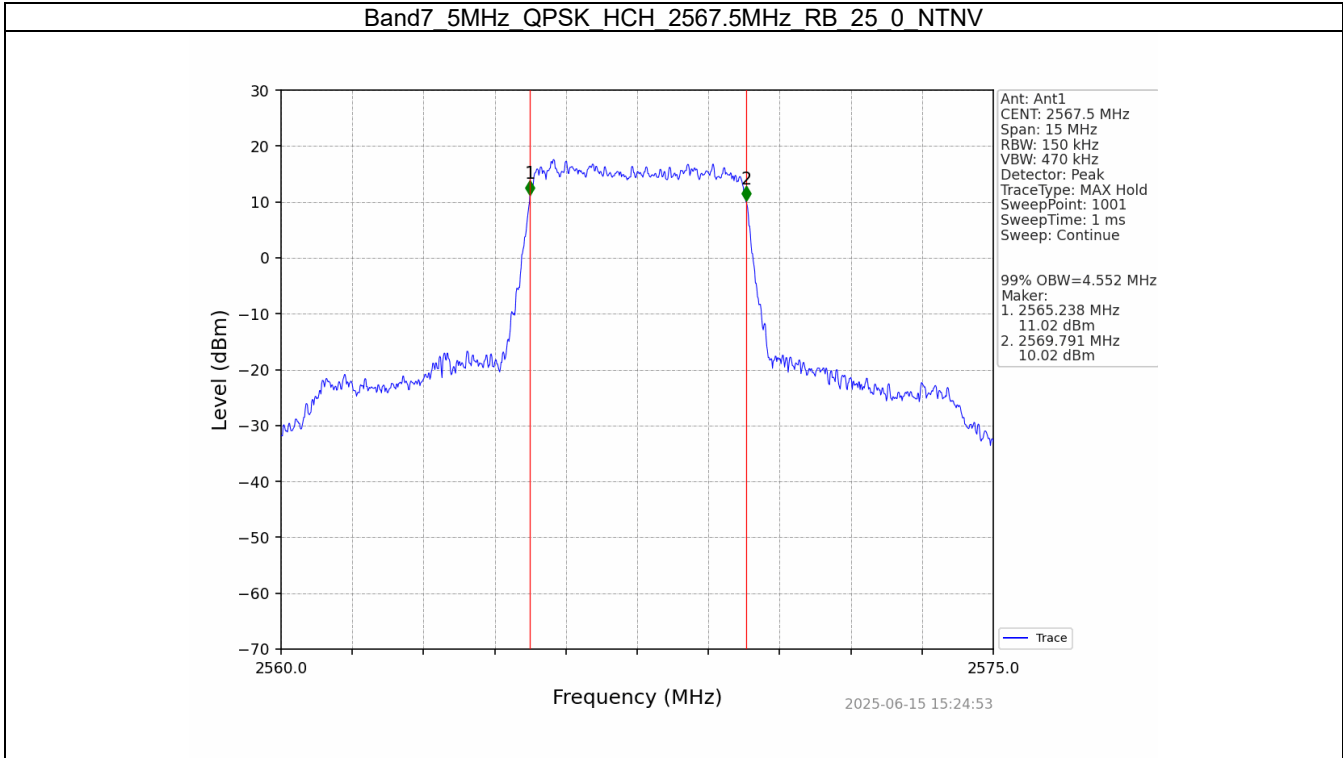
Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	5.160	/	Pass
		2535	25	0	5.209	/	Pass
		2567.5	25	0	5.159	/	Pass
	16QAM	2502.5	25	0	5.149	/	Pass
		2535	25	0	5.201	/	Pass
		2567.5	25	0	5.139	/	Pass
10	QPSK	2505	50	0	9.823	/	Pass
		2535	50	0	9.903	/	Pass
		2565	50	0	9.829	/	Pass
	16QAM	2505	27	0	9.791	/	Pass
		2535	27	0	9.833	/	Pass
		2565	27	23	9.878	/	Pass
15	QPSK	2507.5	75	0	17.376	/	Pass
		2535	75	0	16.743	/	Pass
		2562.5	75	0	17.018	/	Pass

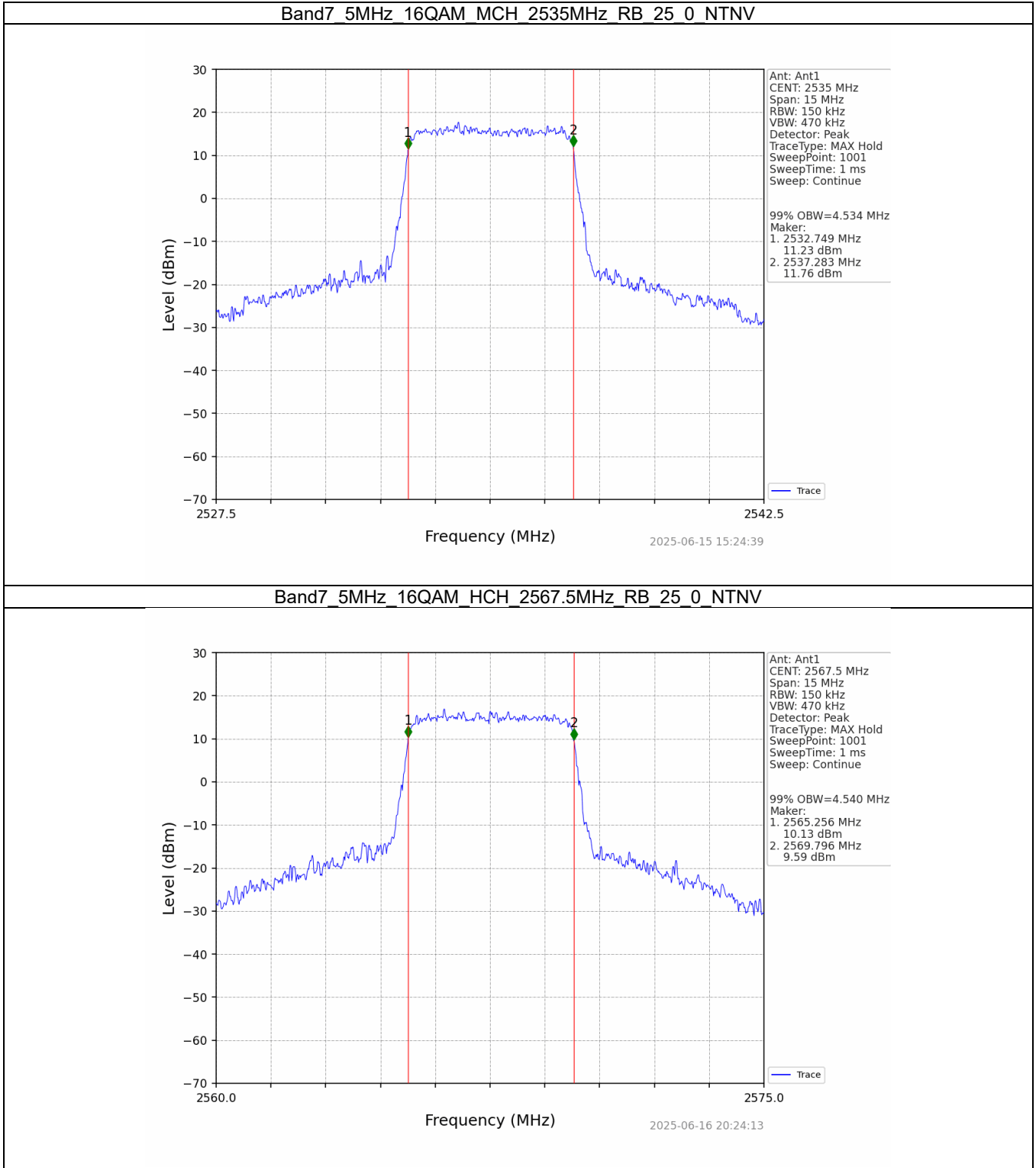
20	16QAM	2507.5	27	0	11.408	/	Pass
		2535	27	0	11.894	/	Pass
		2562.5	27	48	17.311	/	Pass
	QPSK	2510	100	0	21.445	/	Pass
		2535	100	0	21.487	/	Pass
		2560	100	0	21.288	/	Pass
	16QAM	2510	27	0	14.479	/	Pass
		2535	27	0	11.052	/	Pass
		2560	27	73	20.967	/	Pass

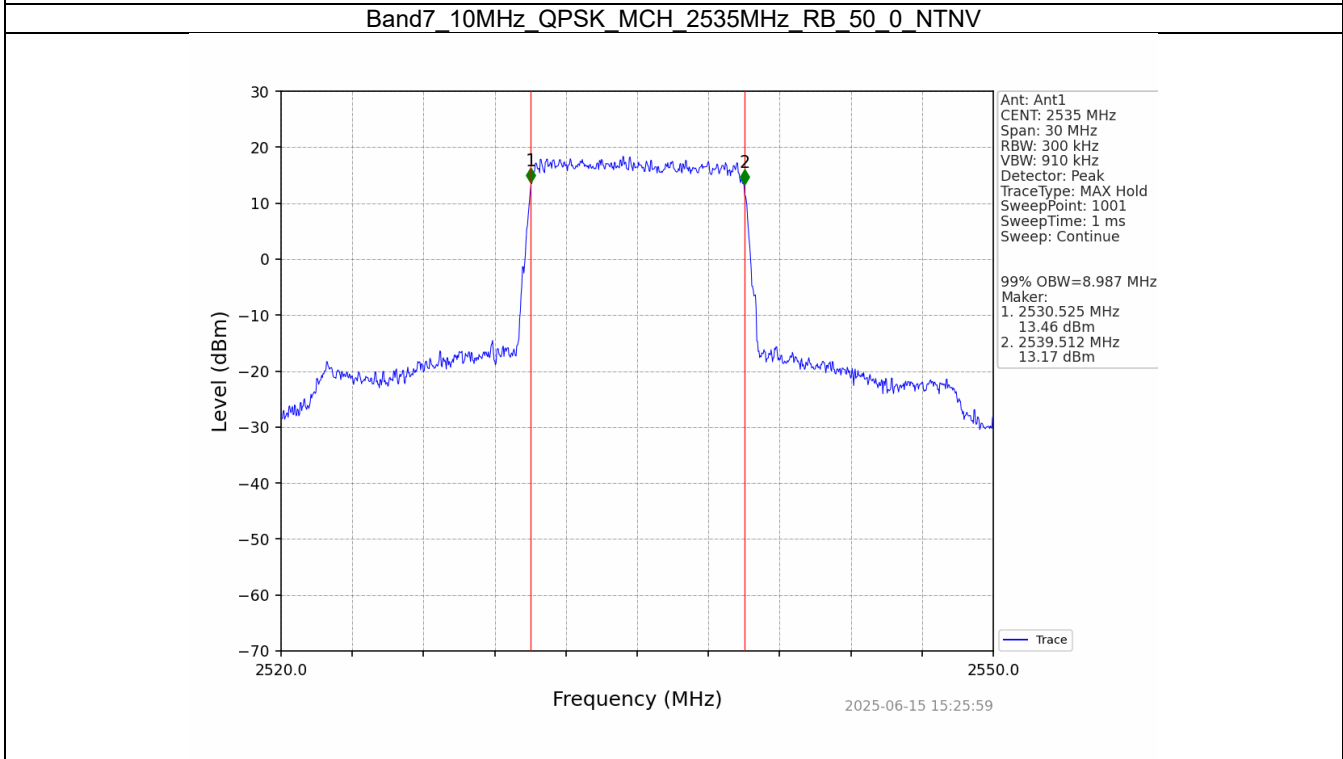
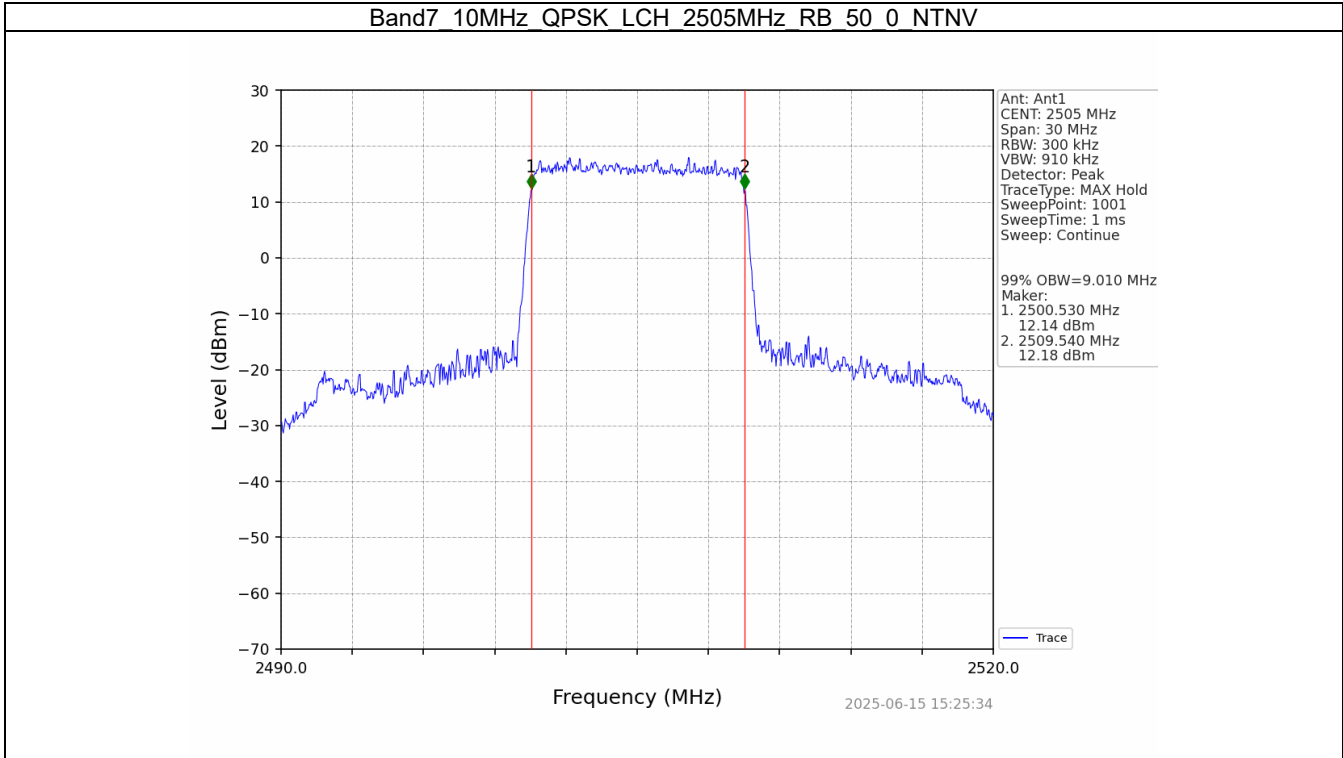
4.2 Test Graph

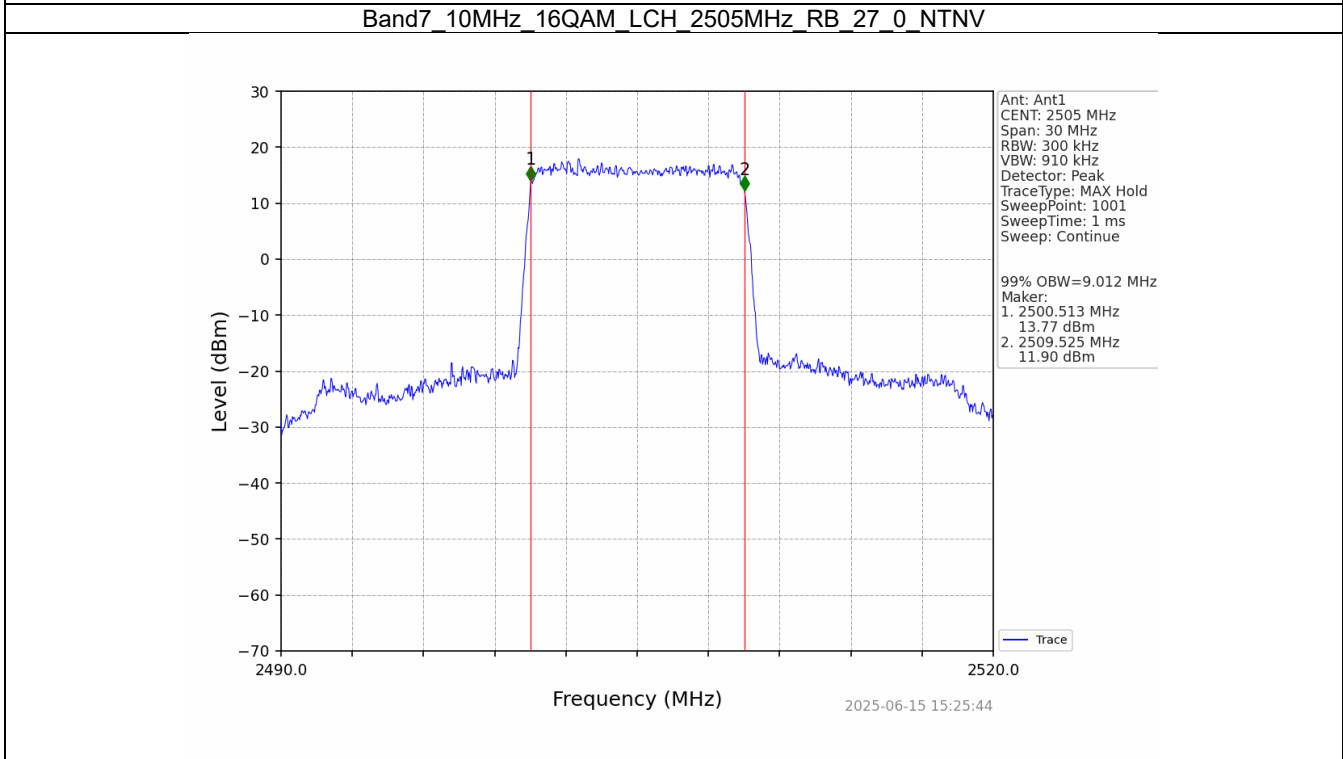
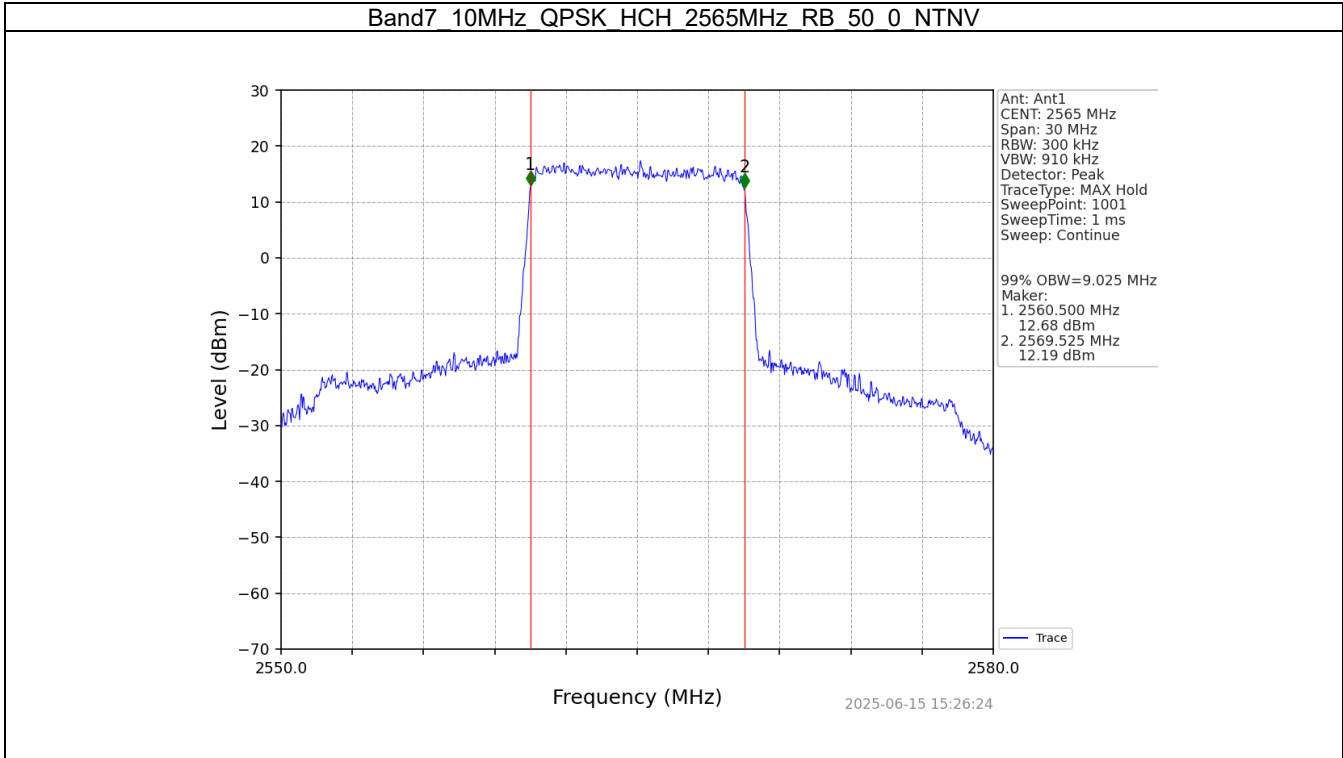
4.2.1 Band7_OBW

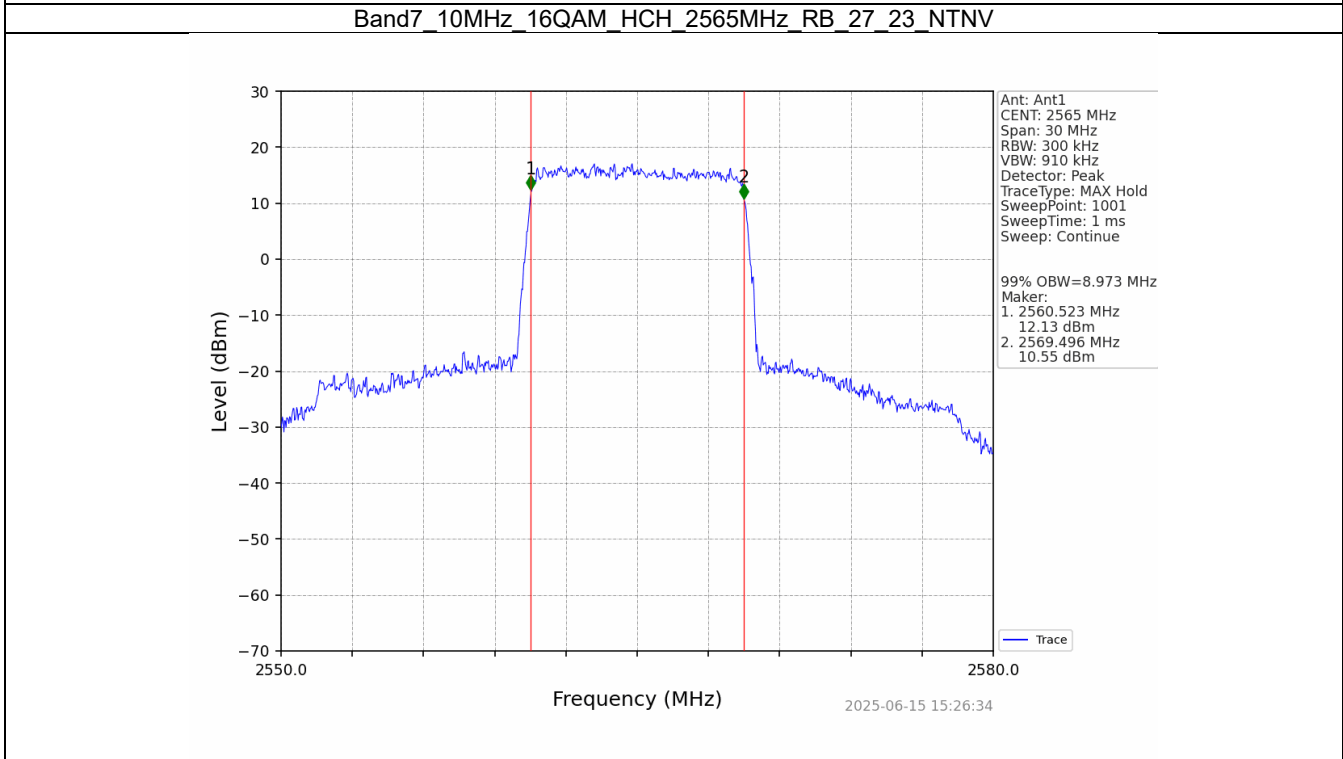
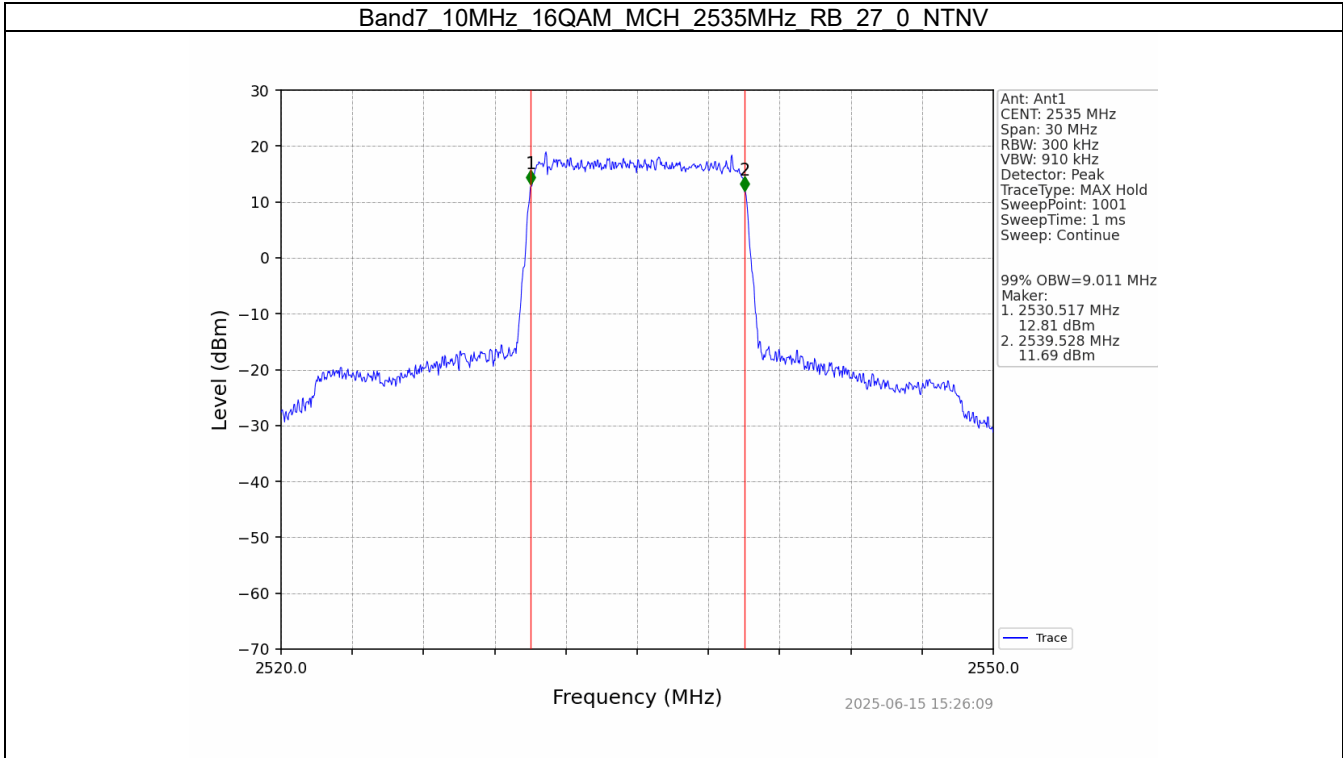


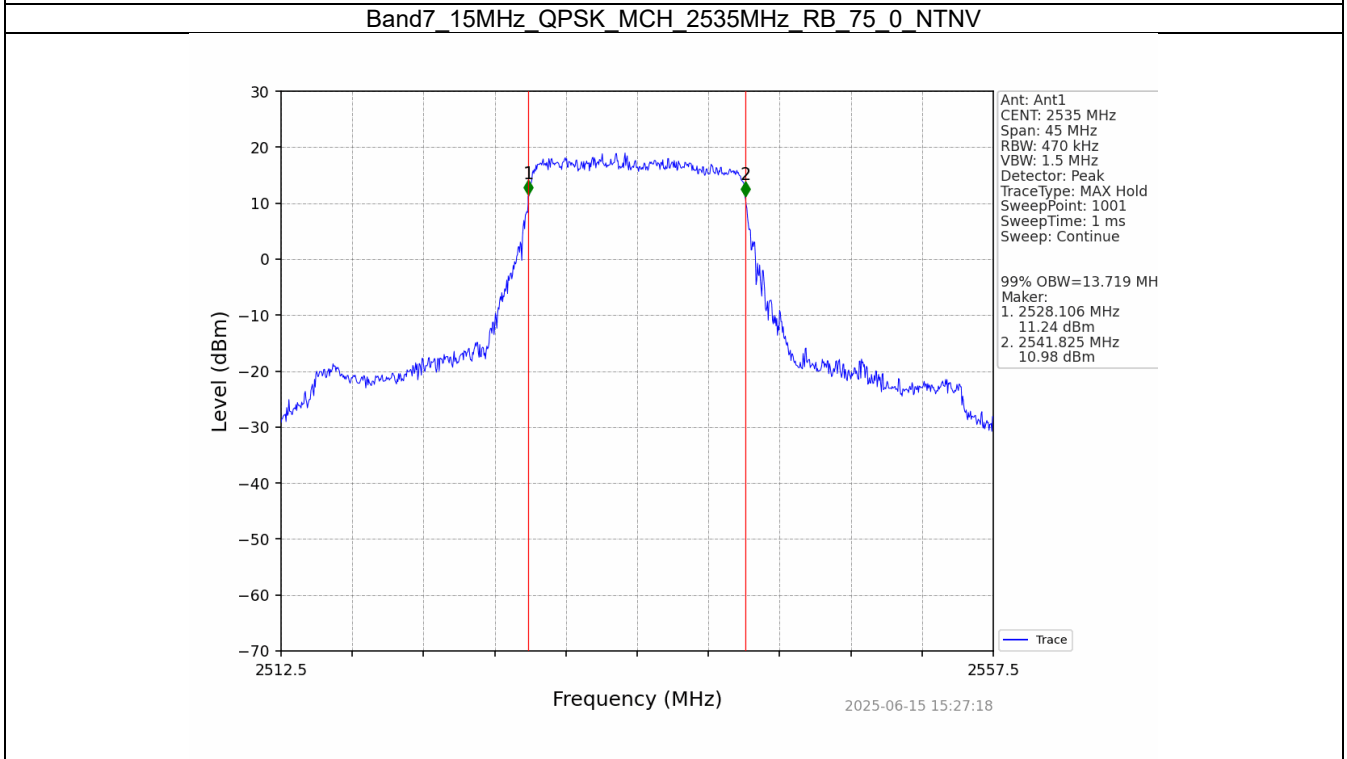
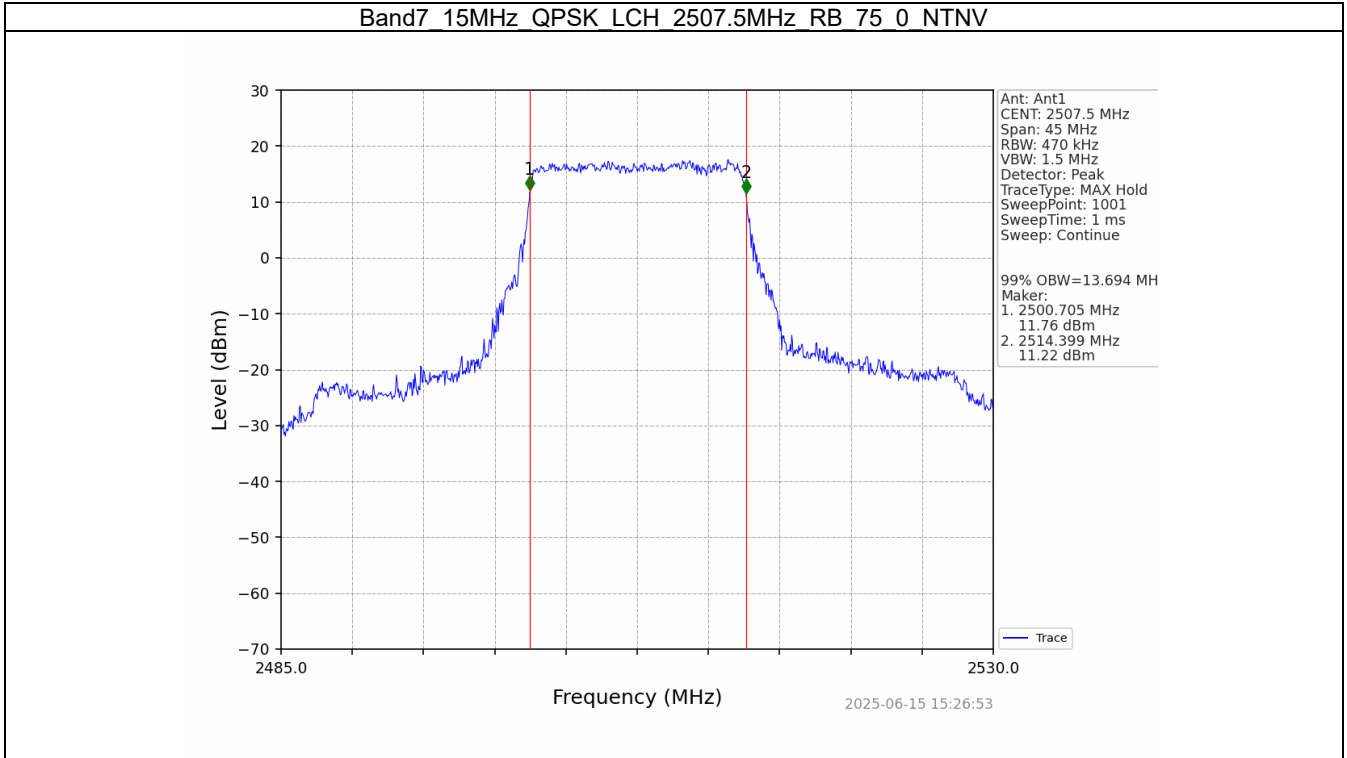


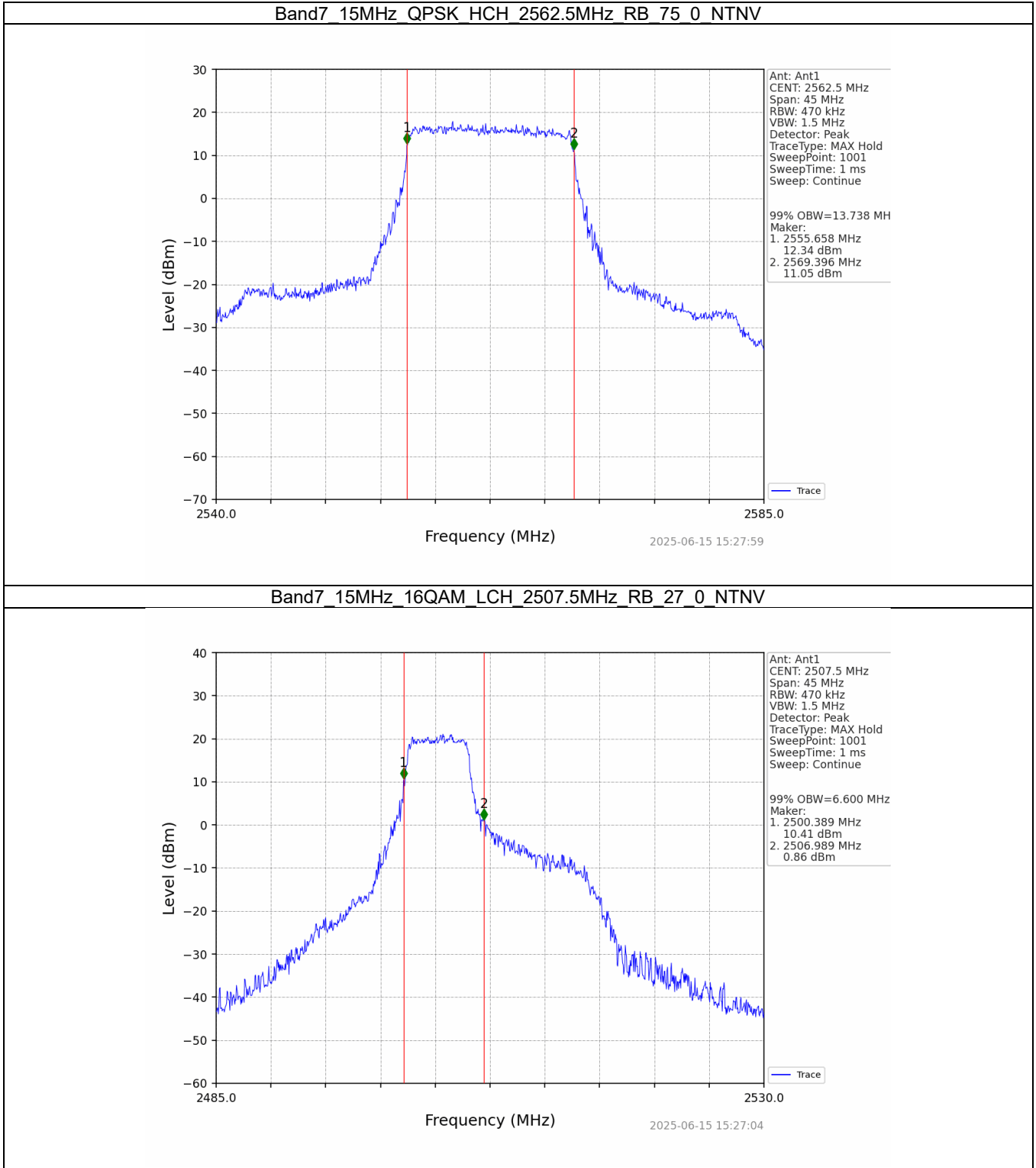


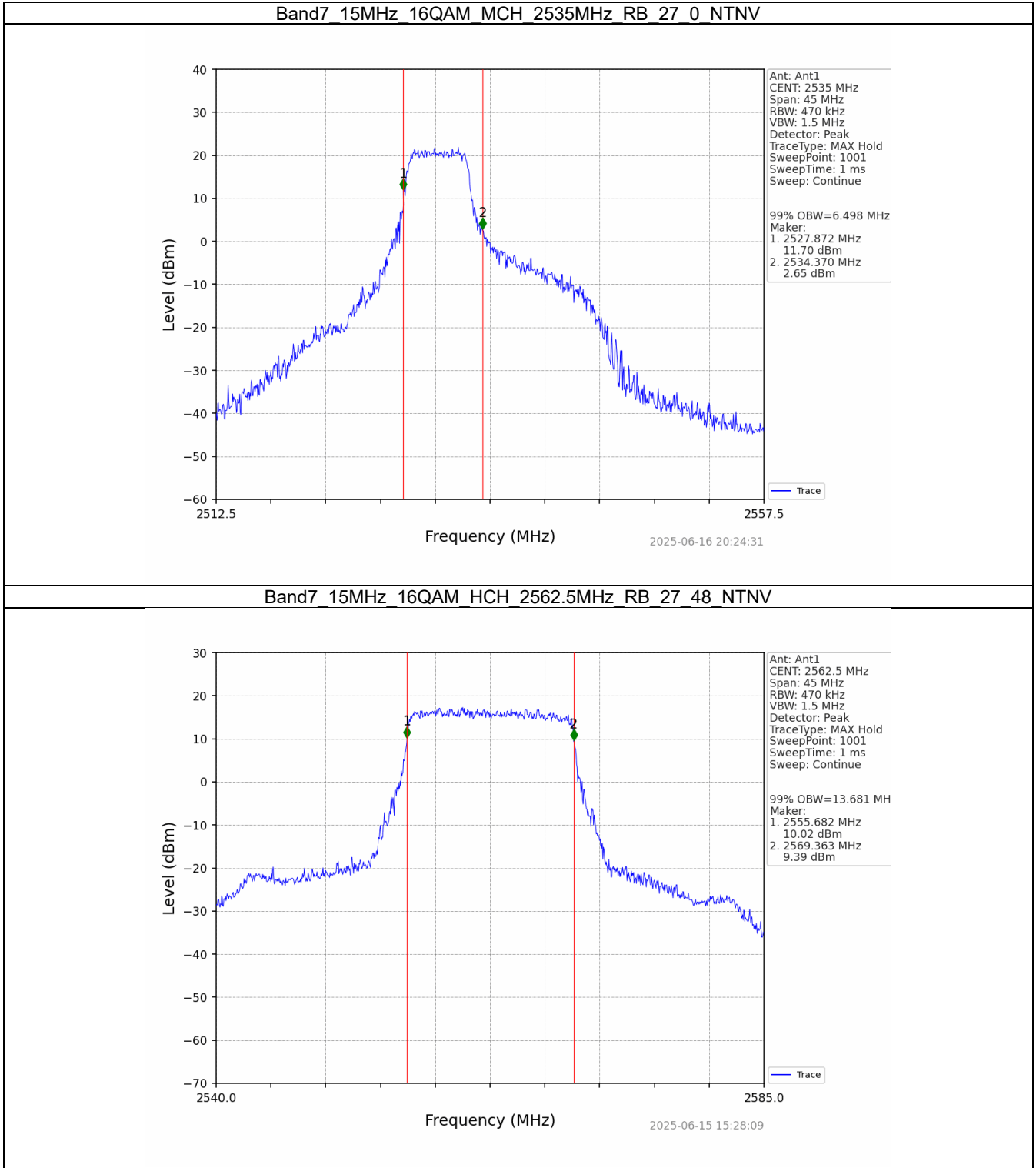


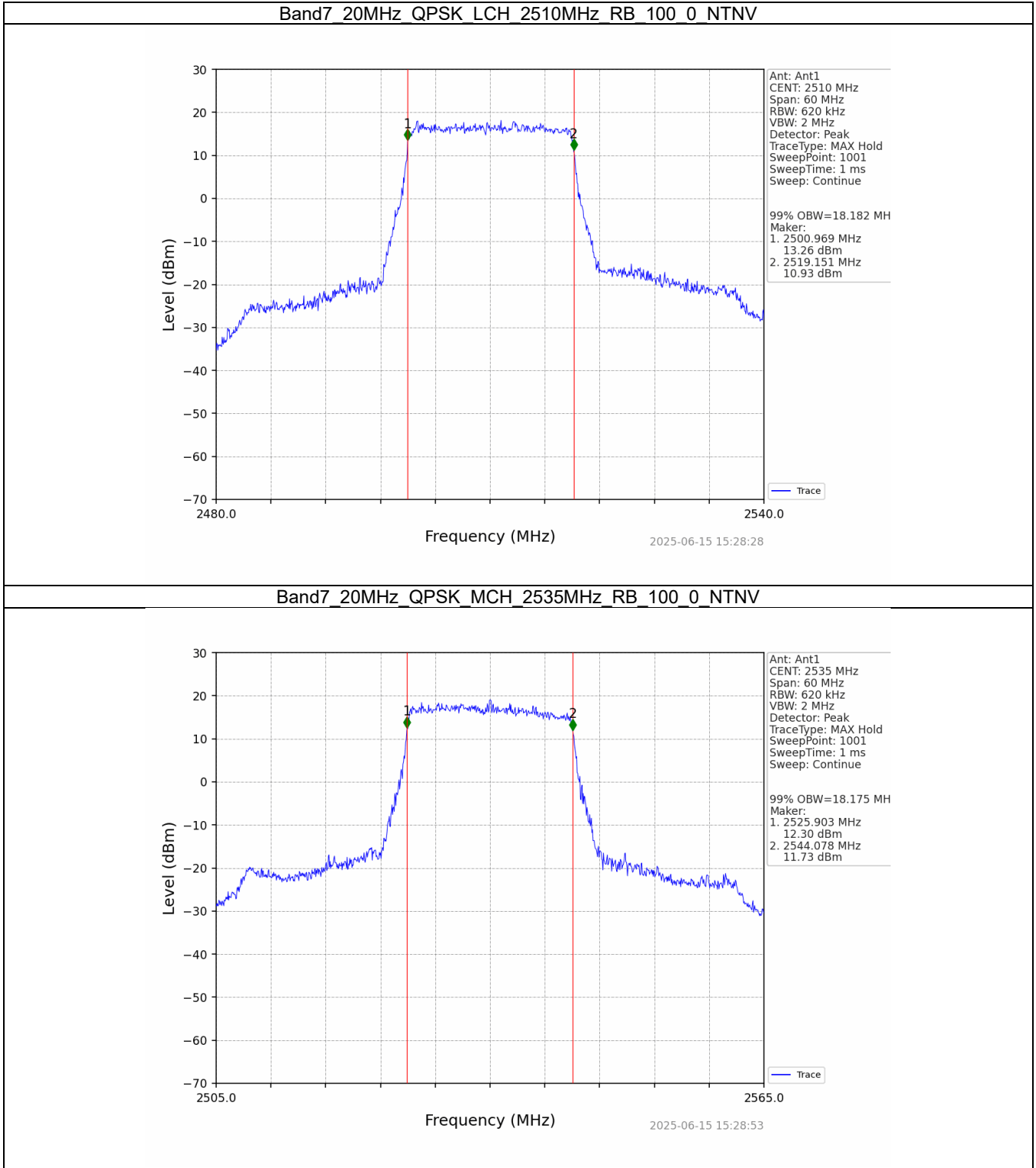


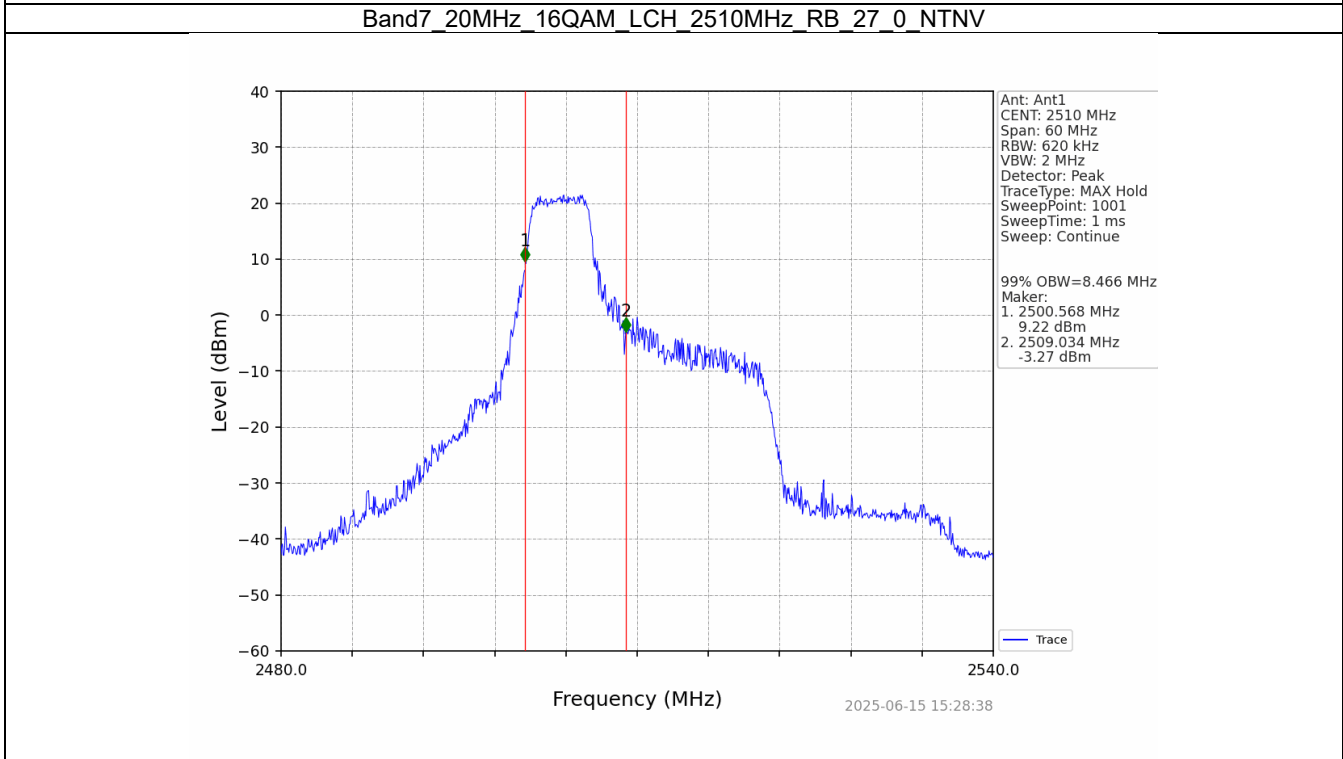
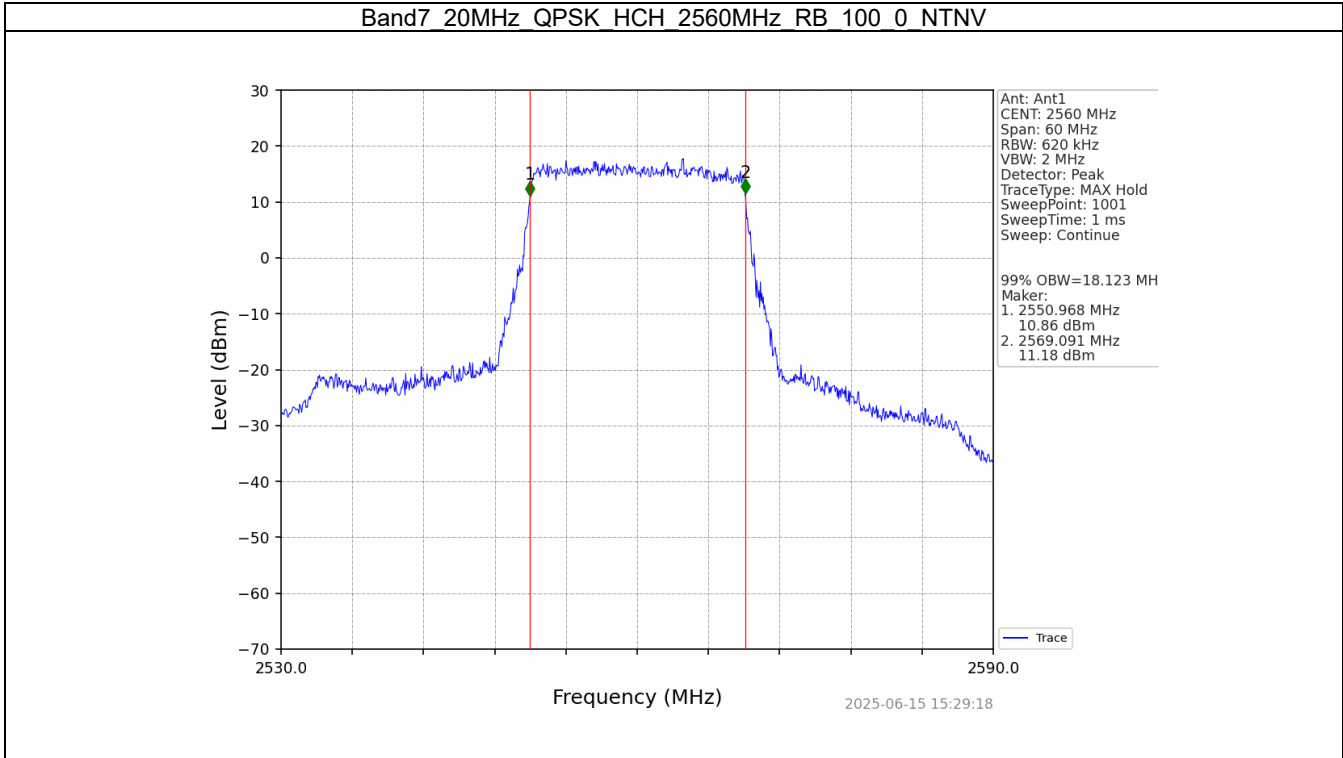


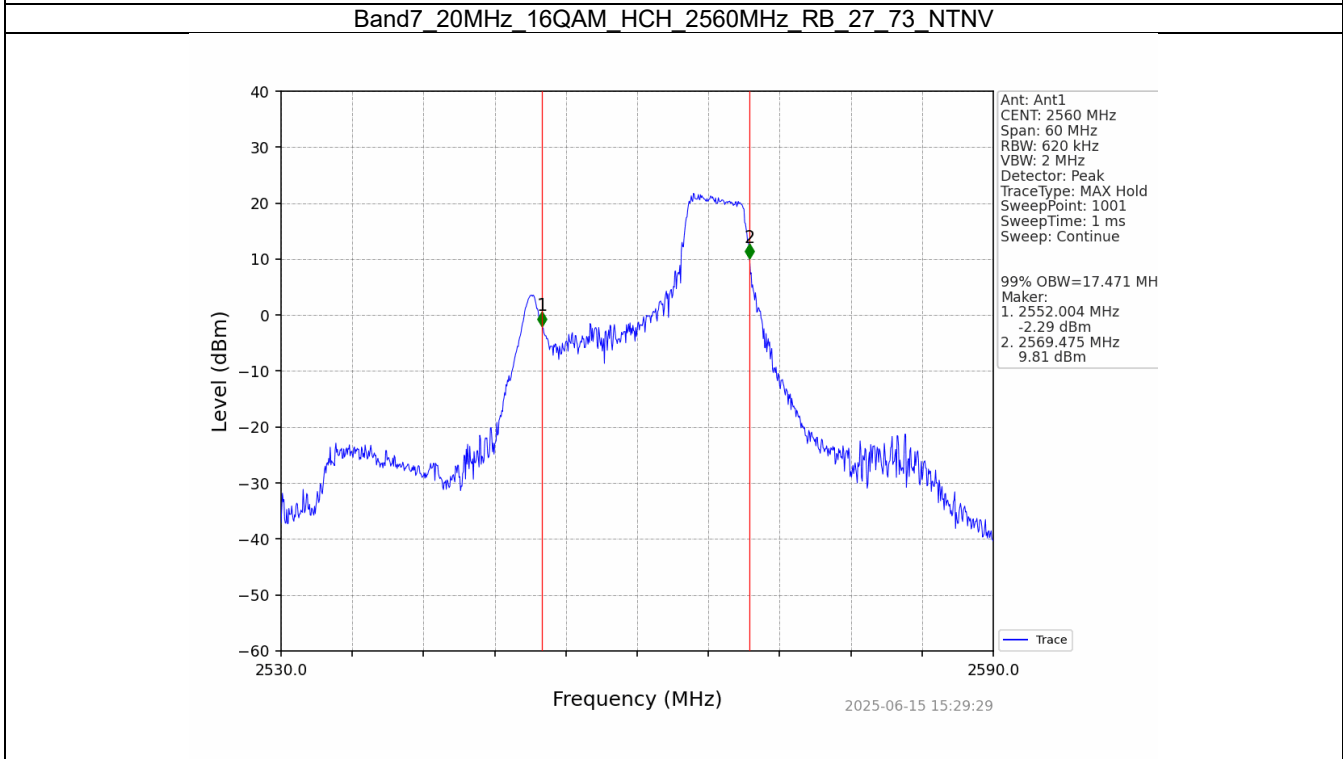
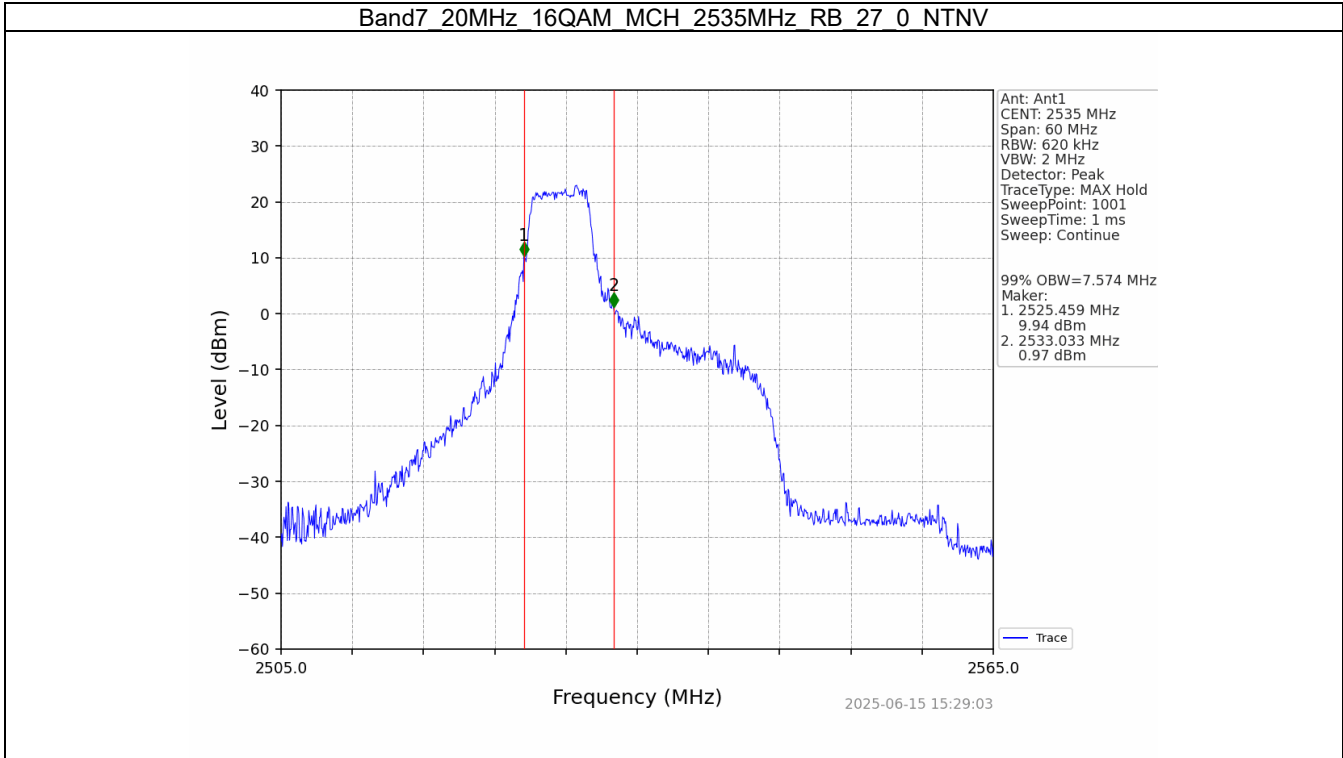




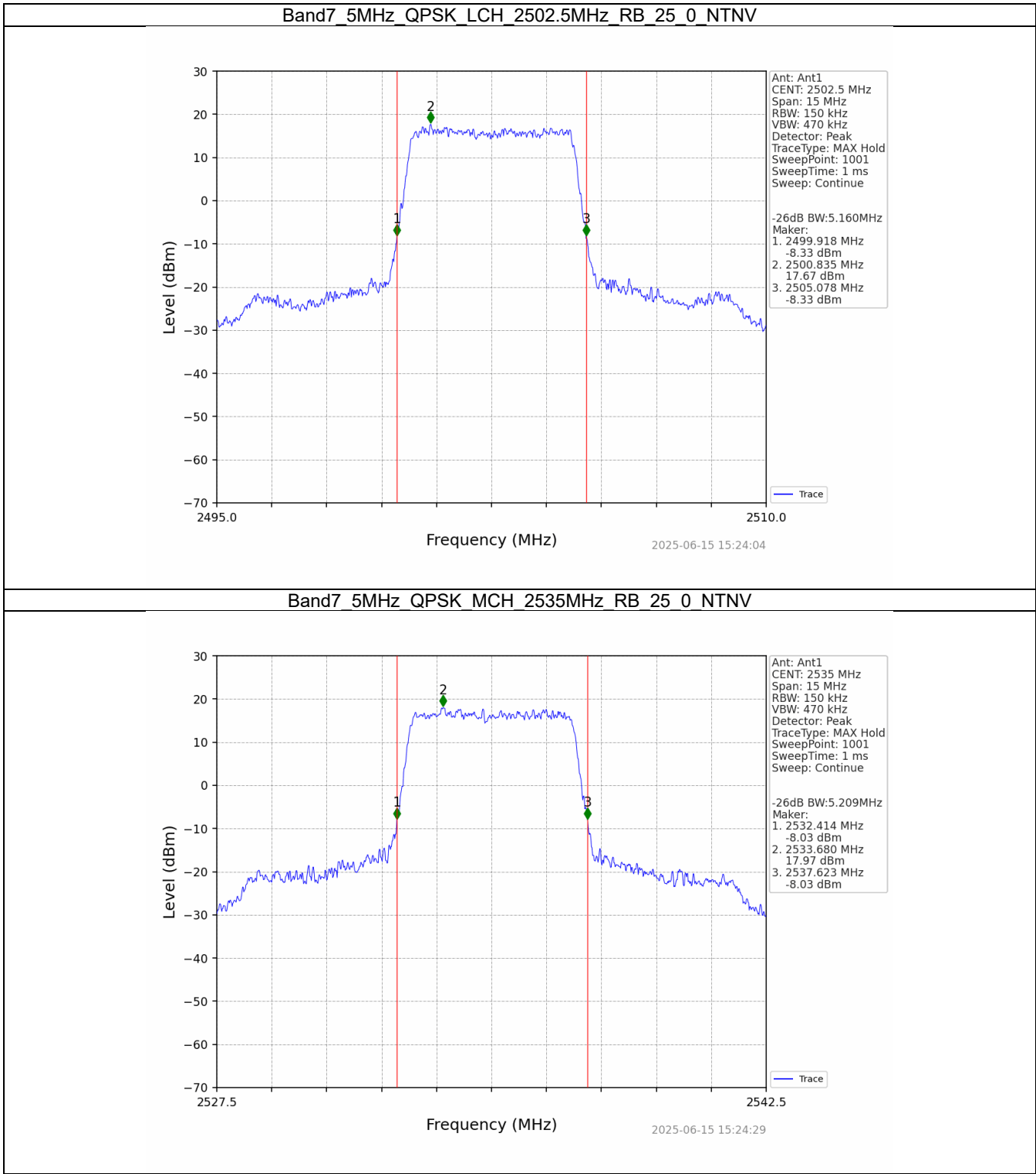


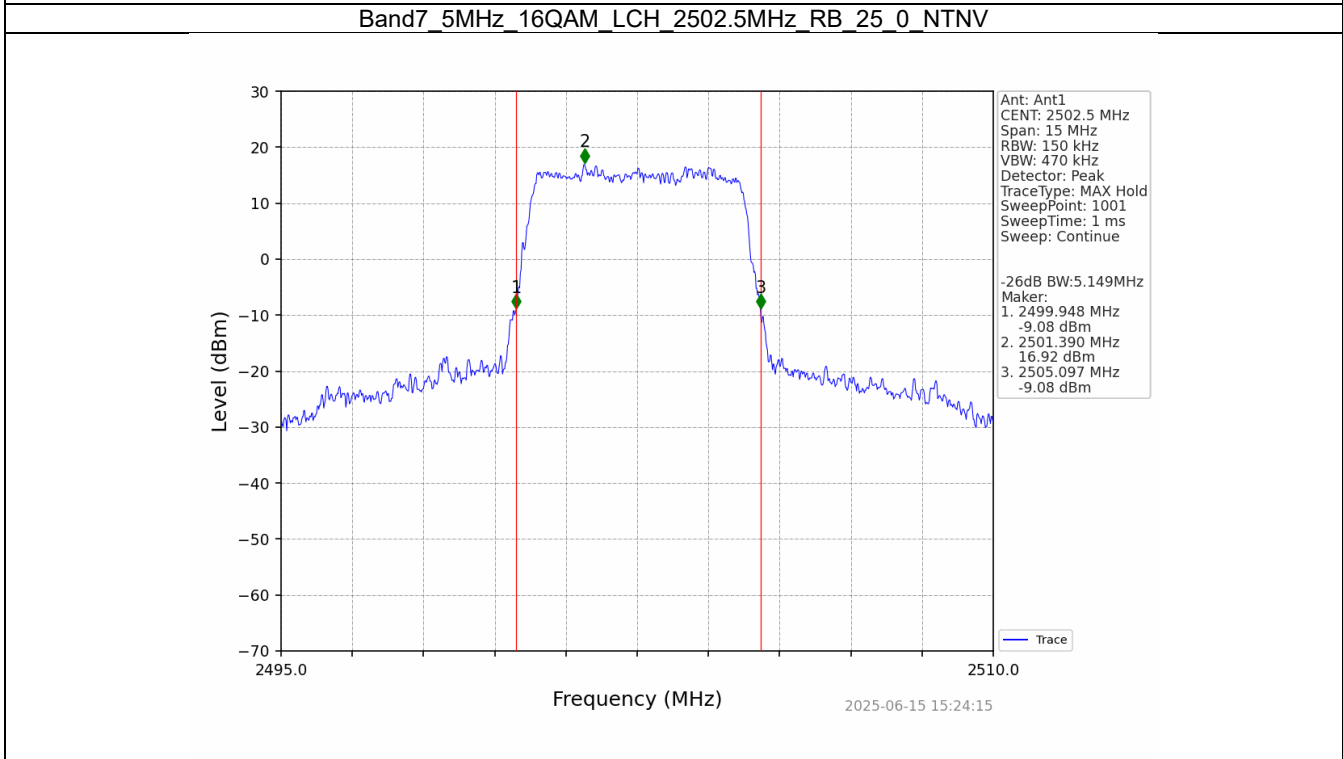
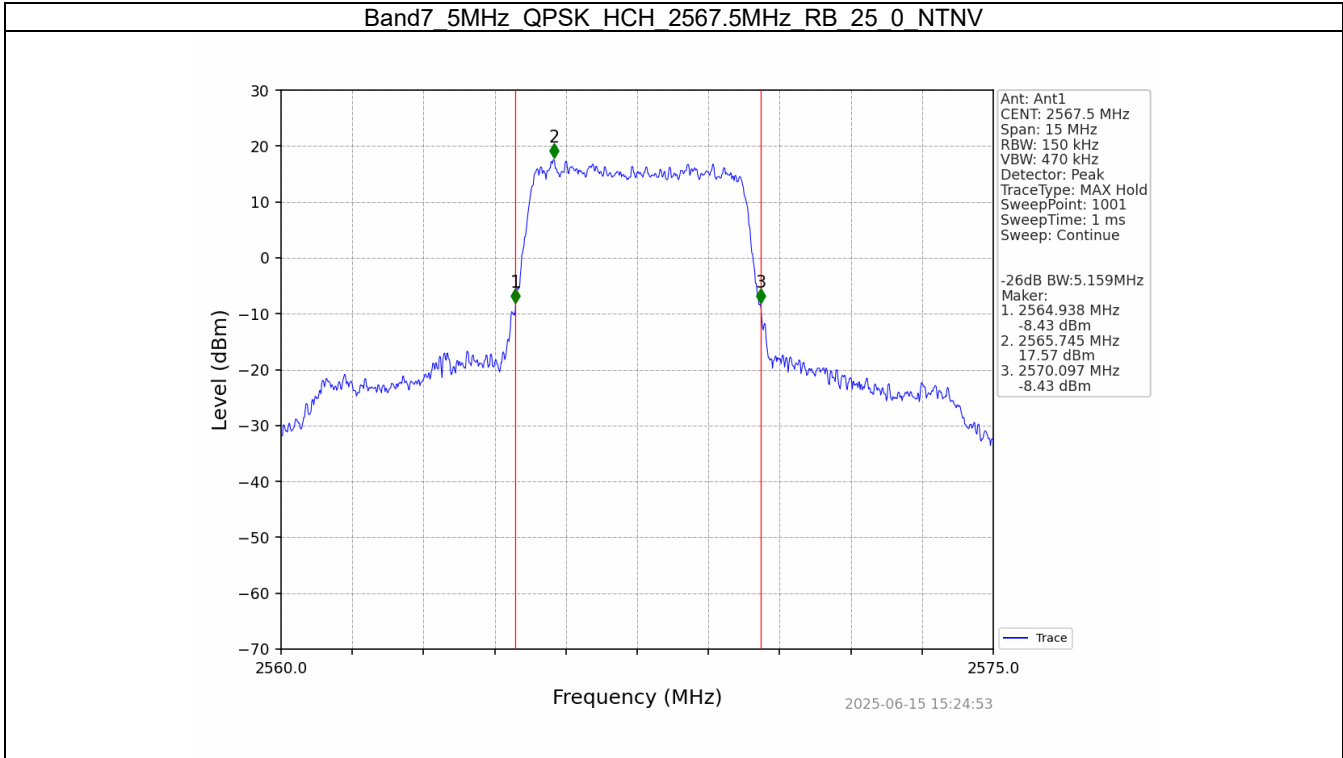


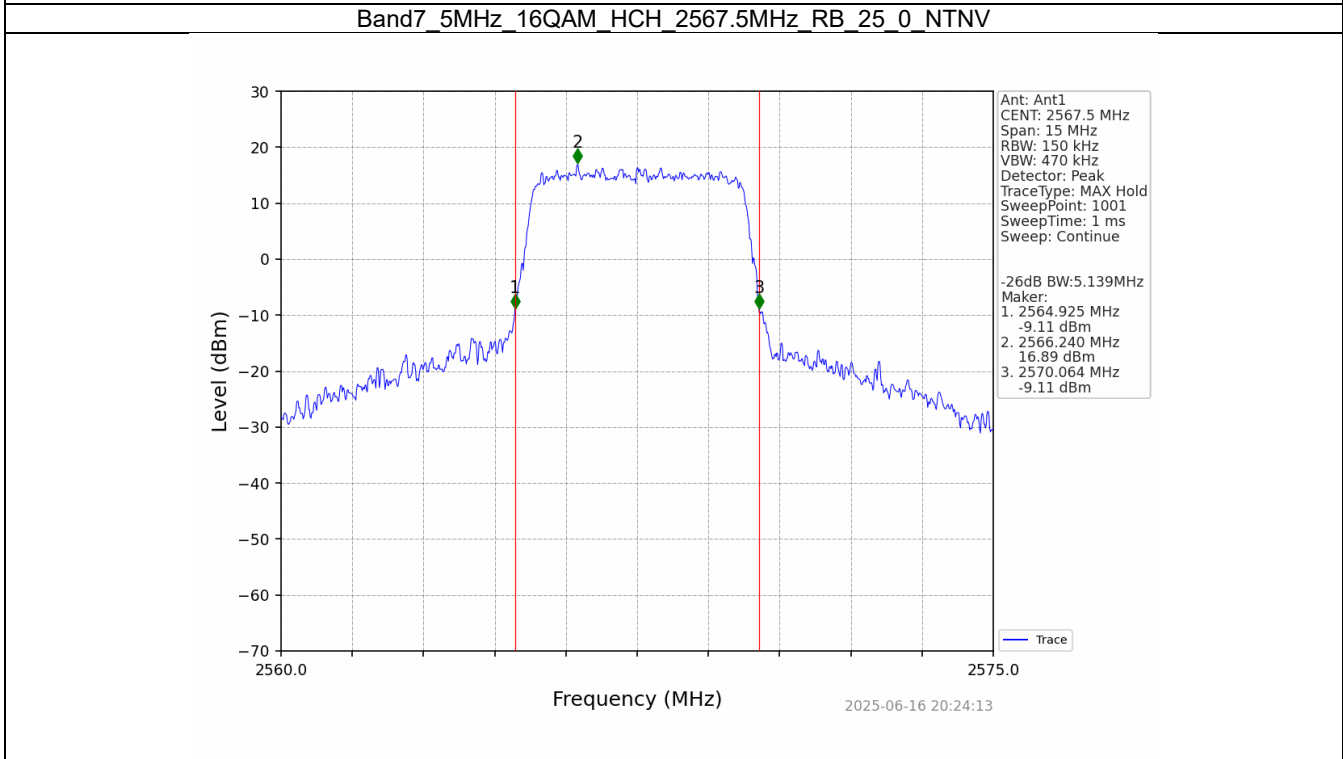
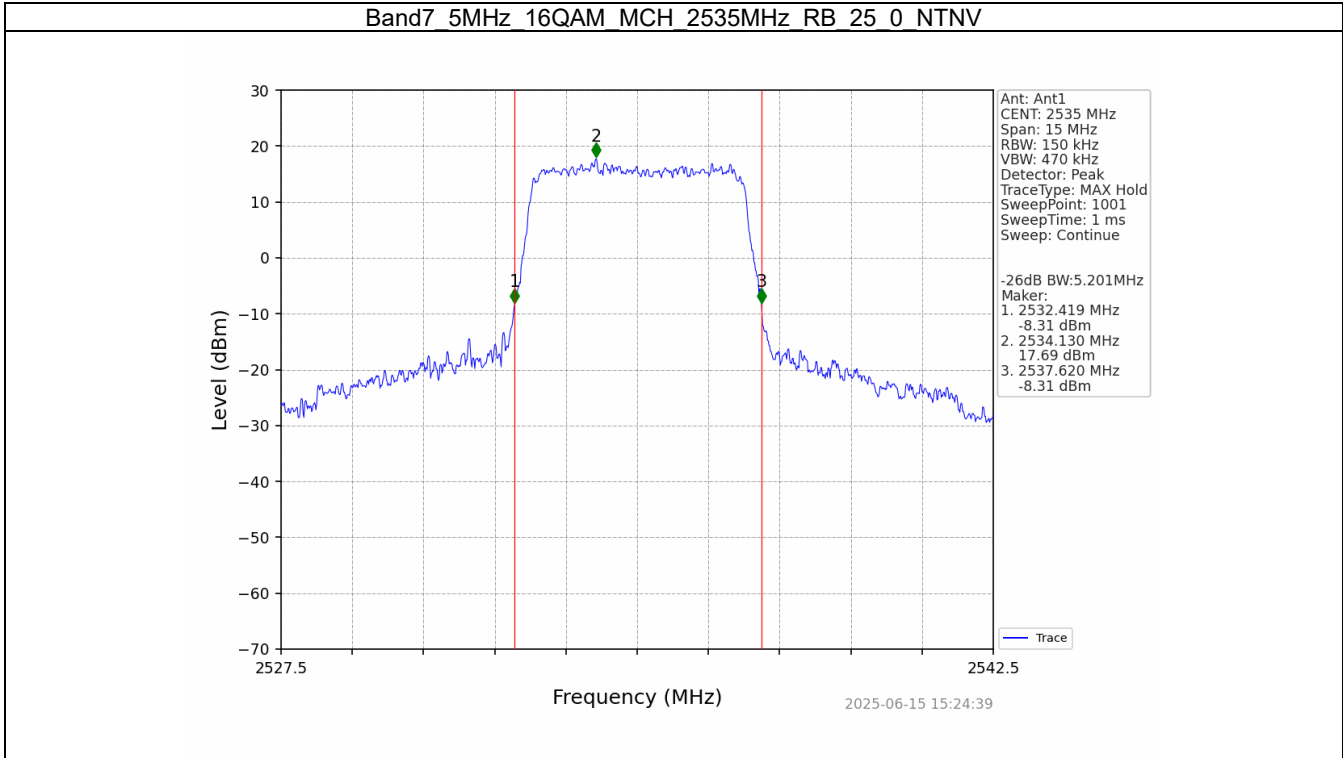


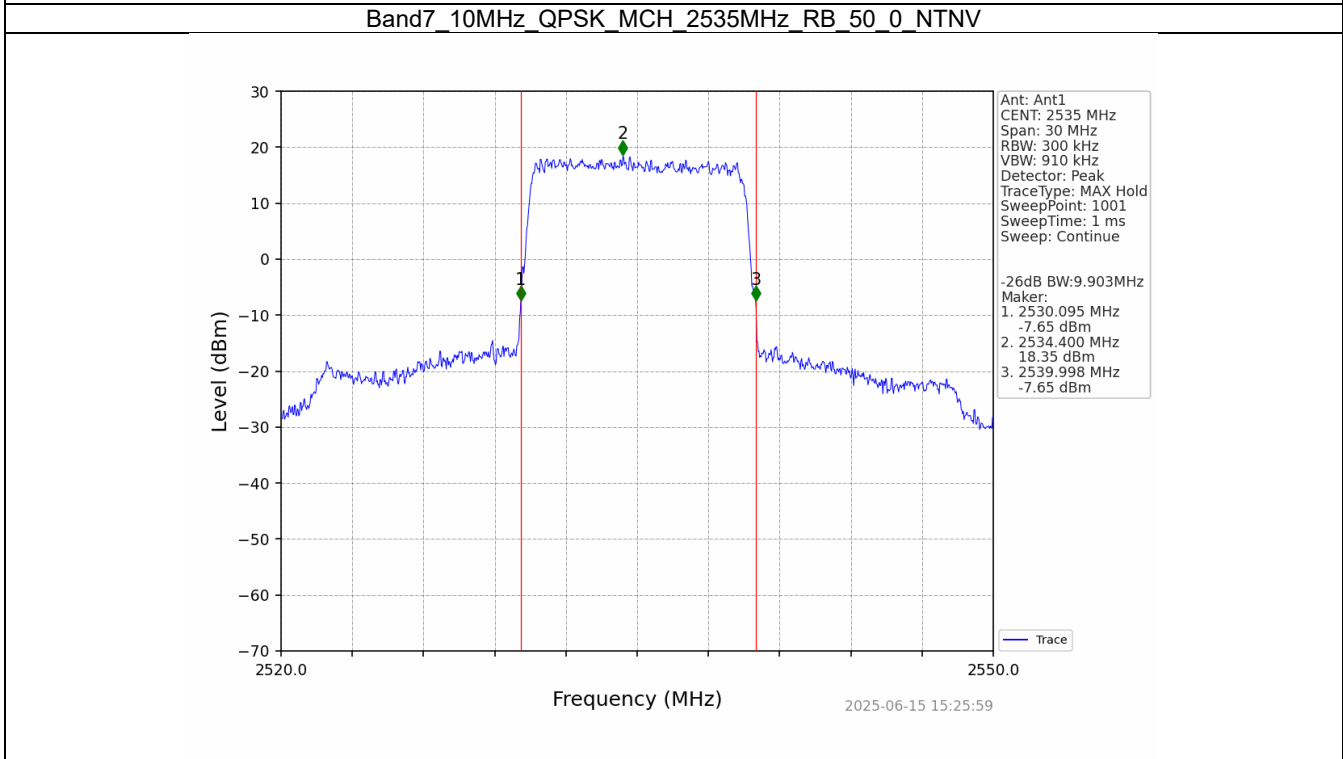
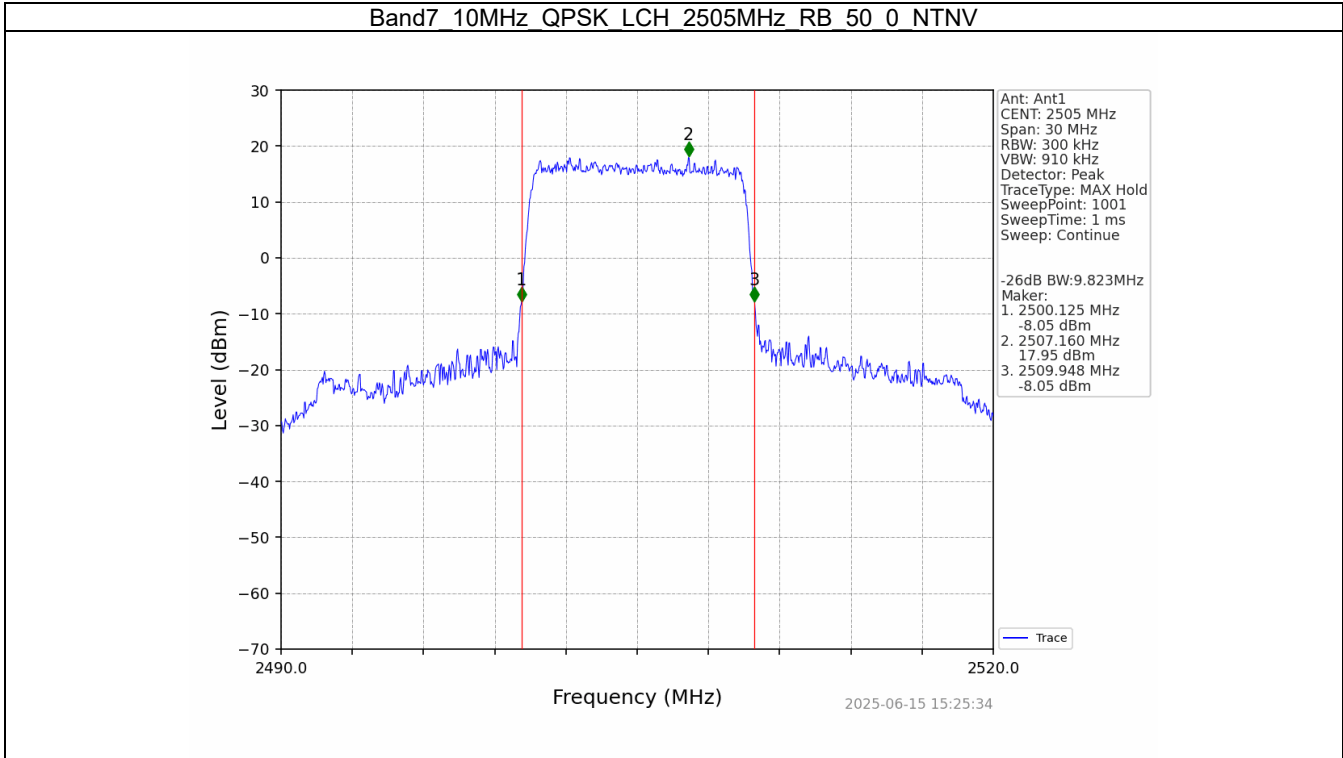


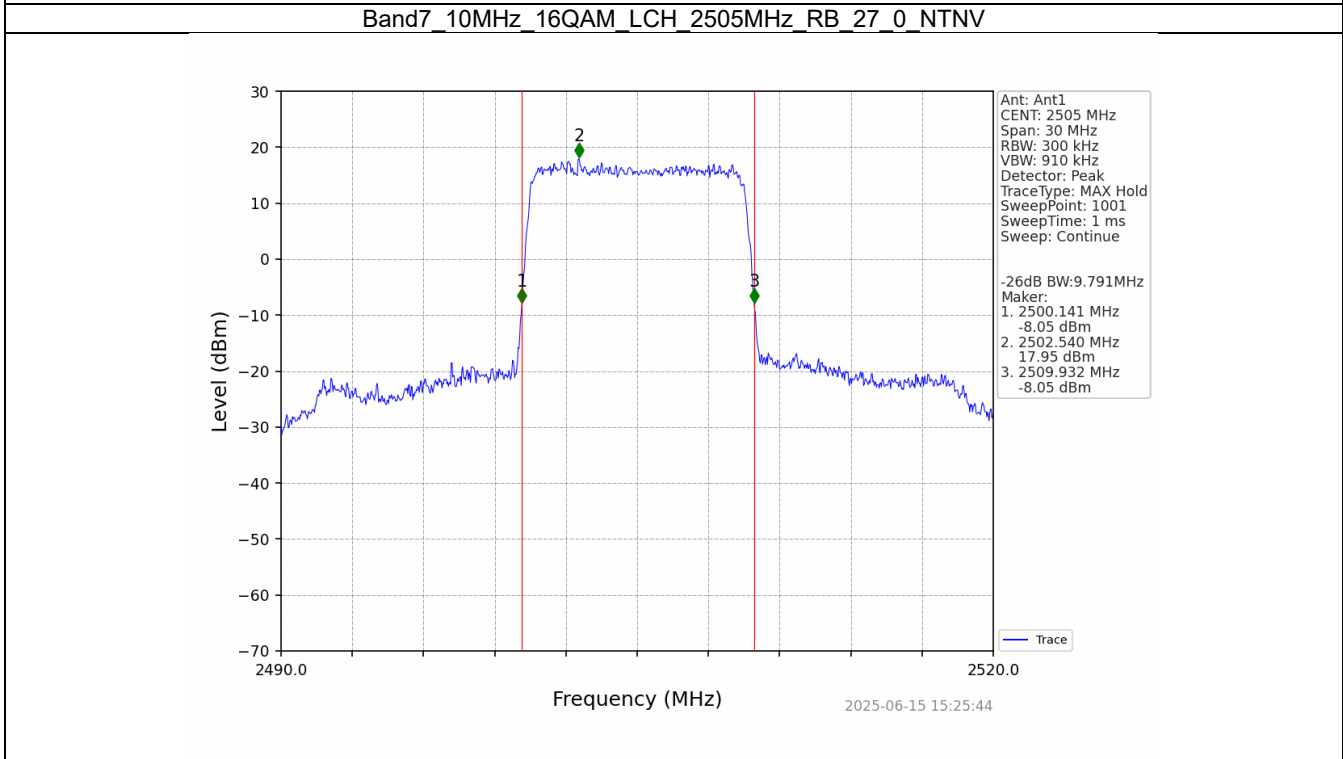
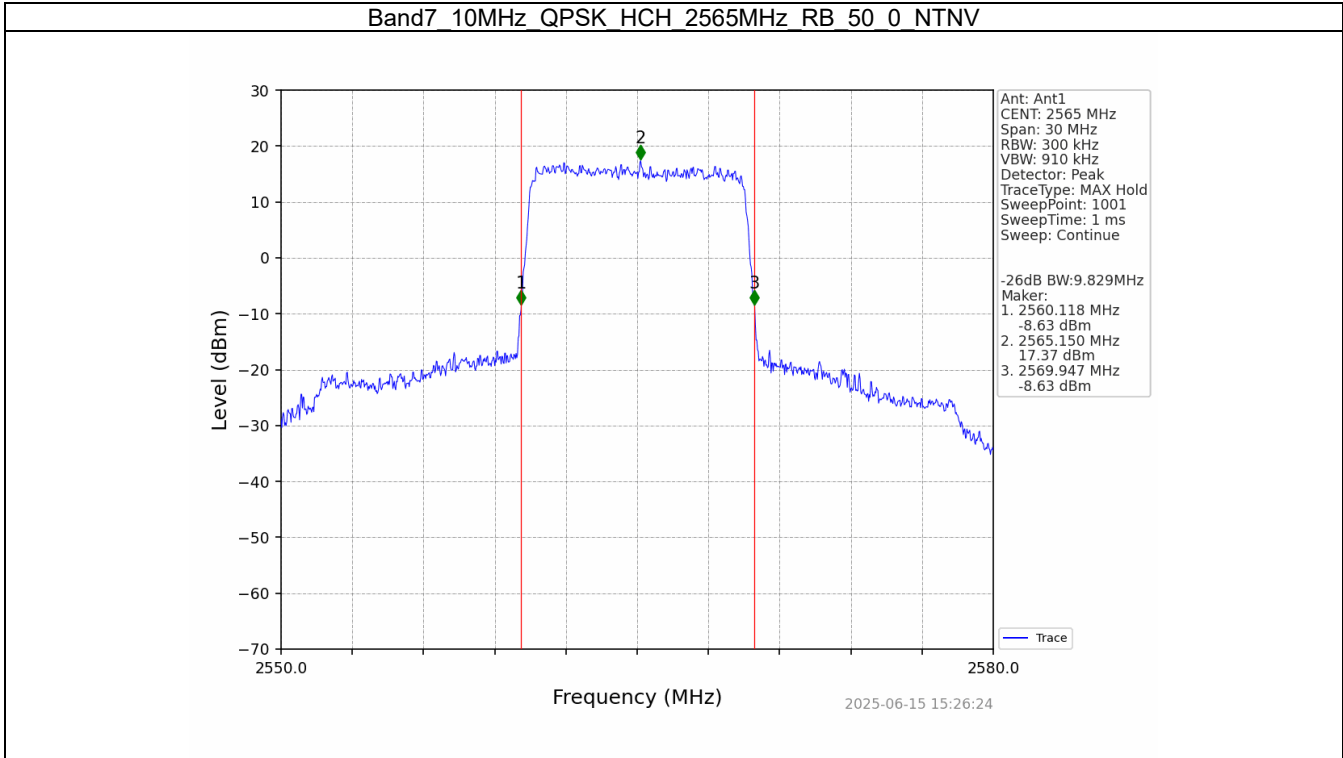
4.2.2 Band7_XDB

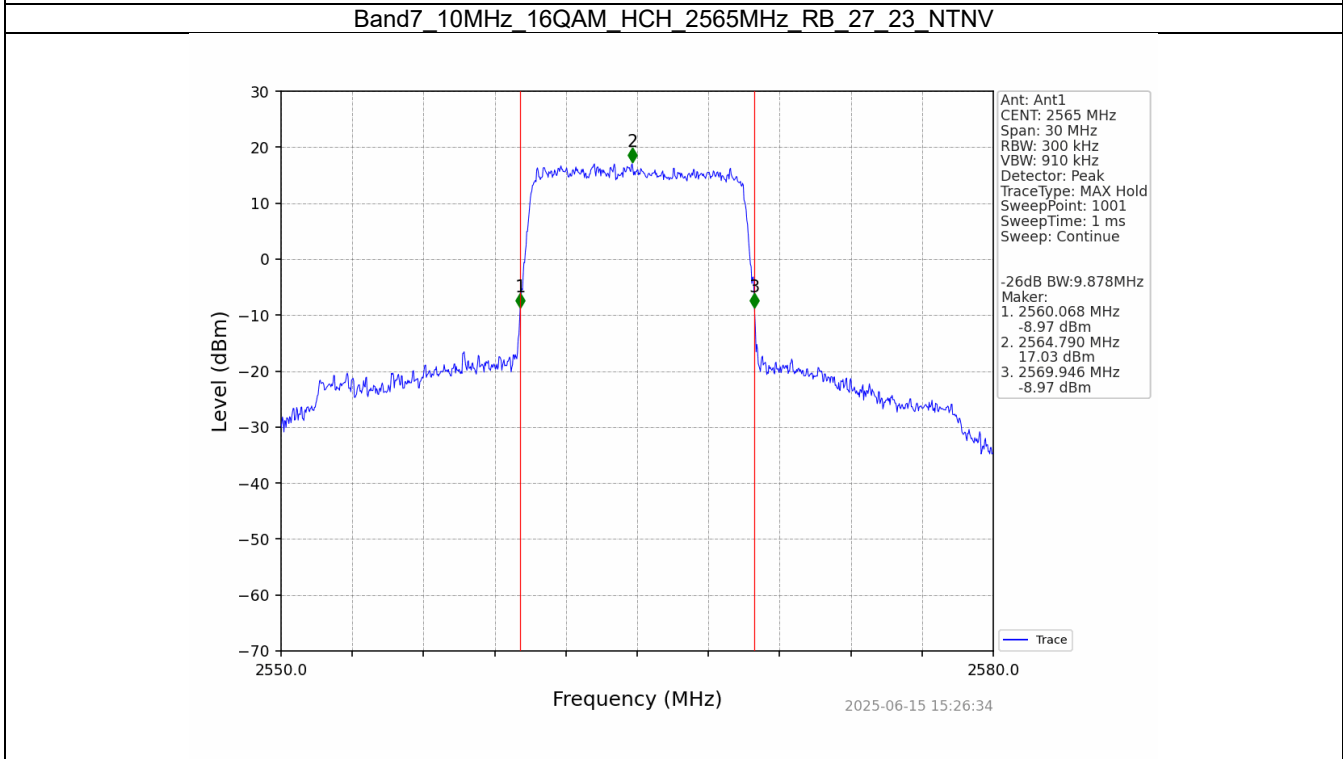
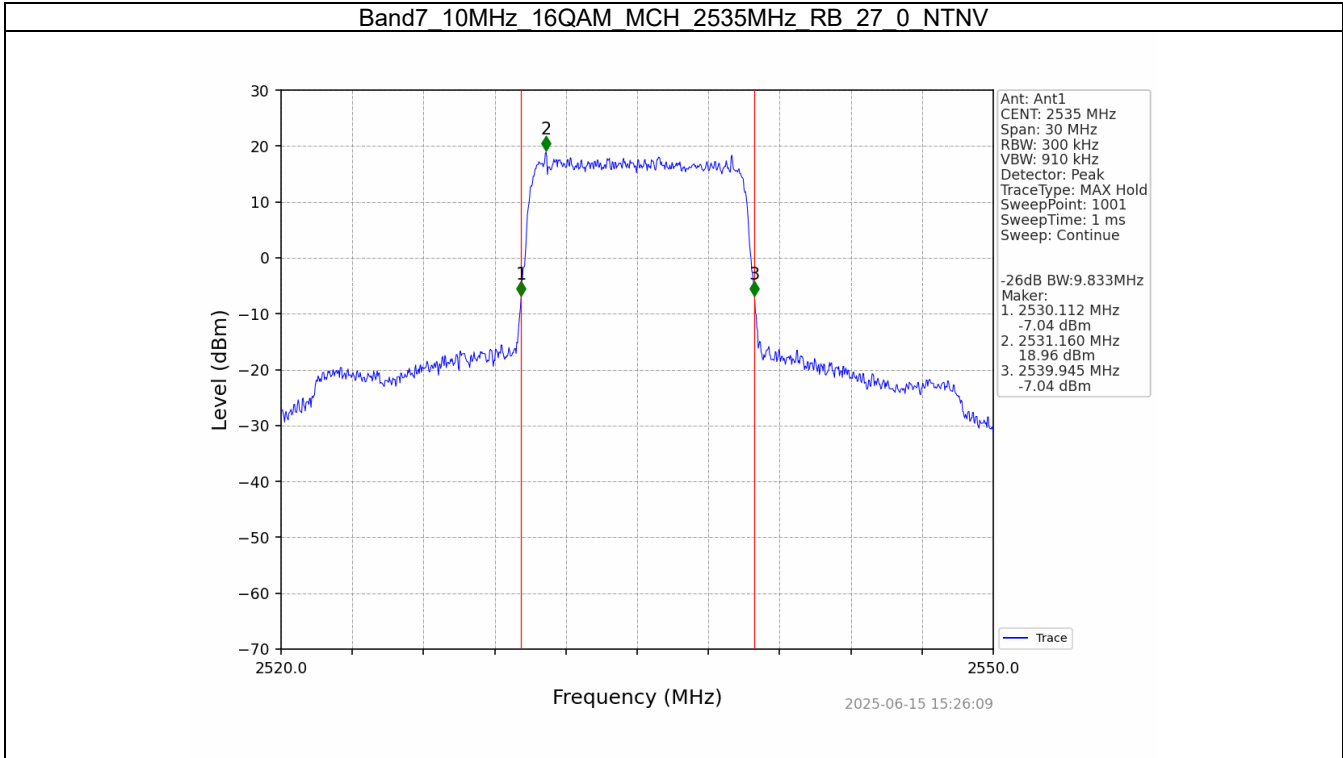


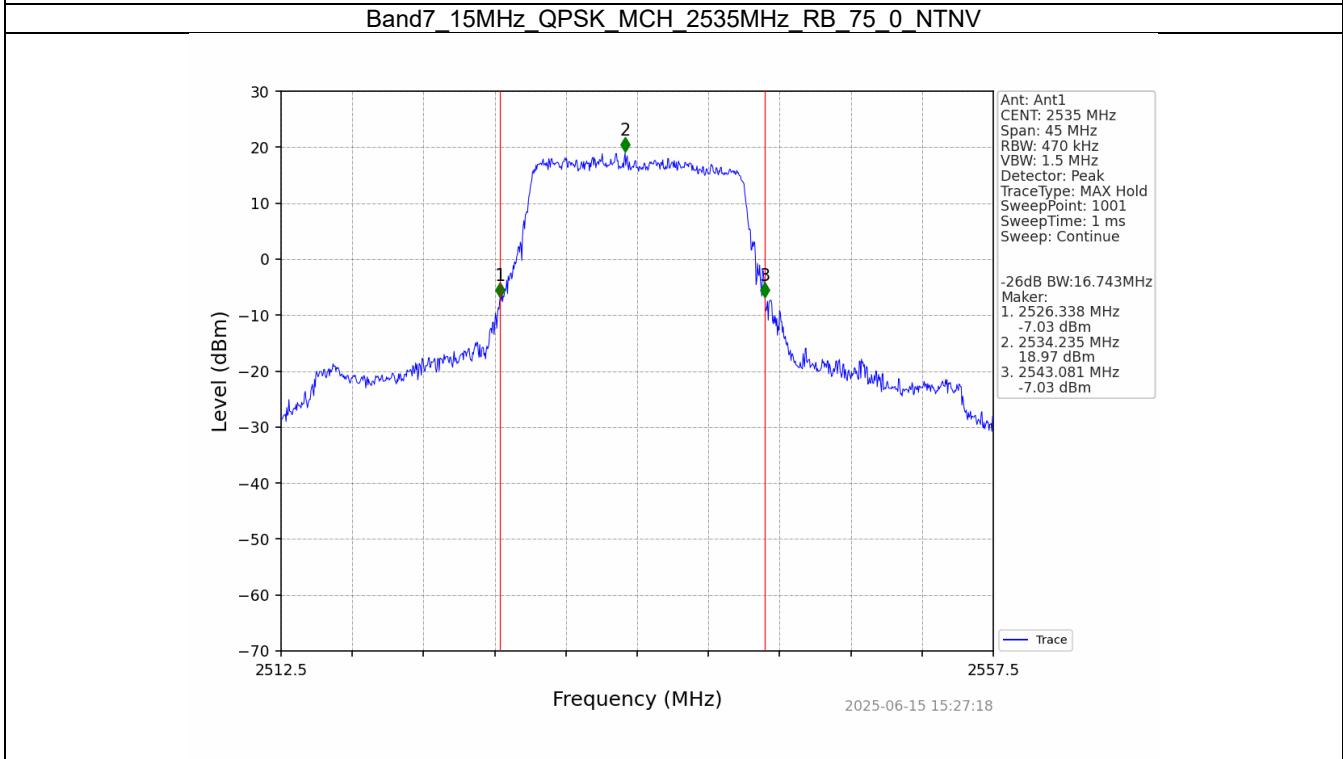
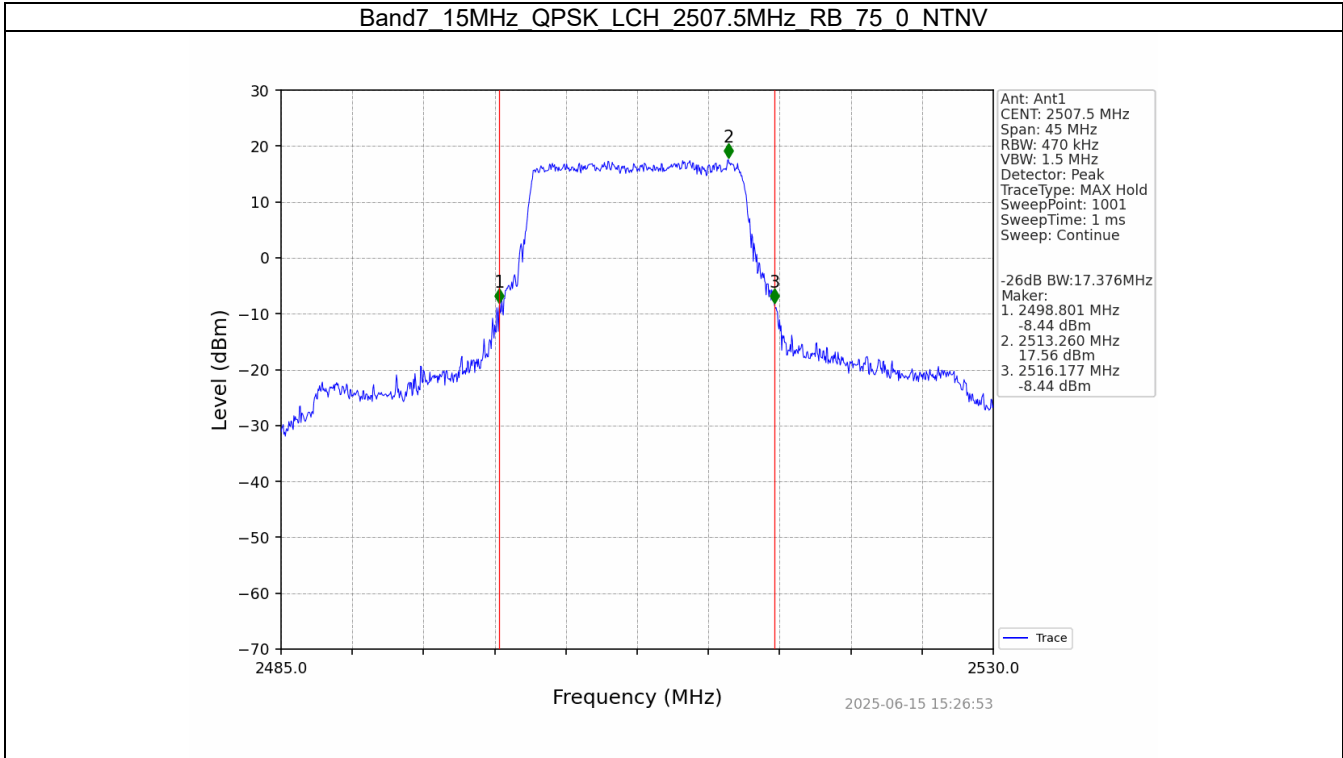


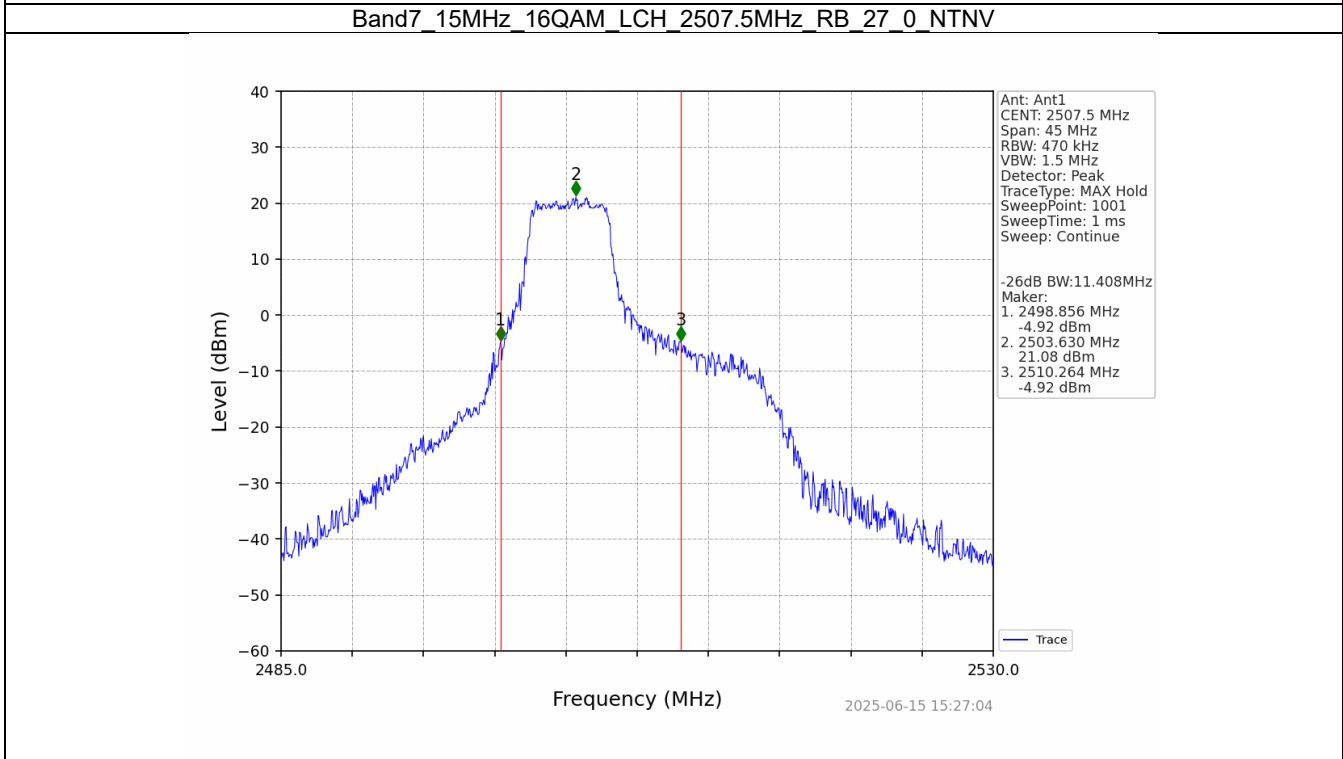
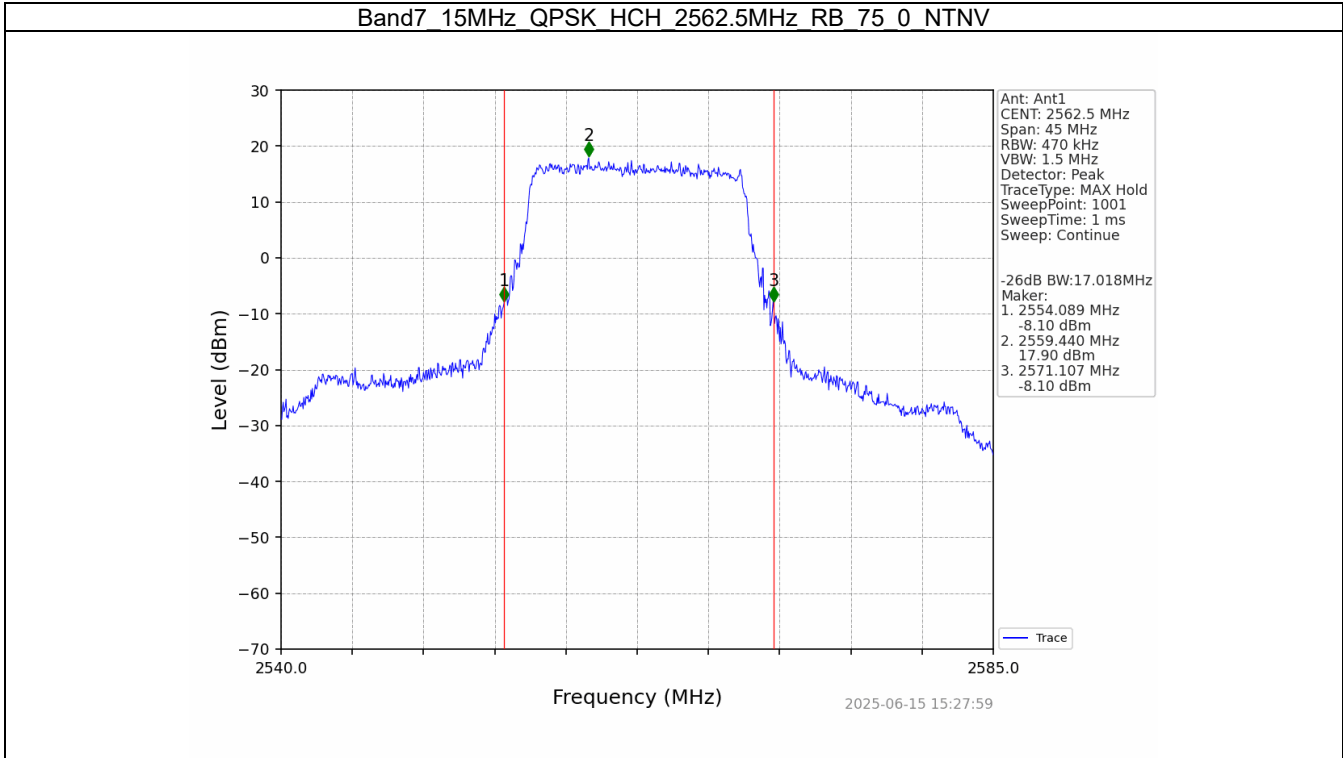


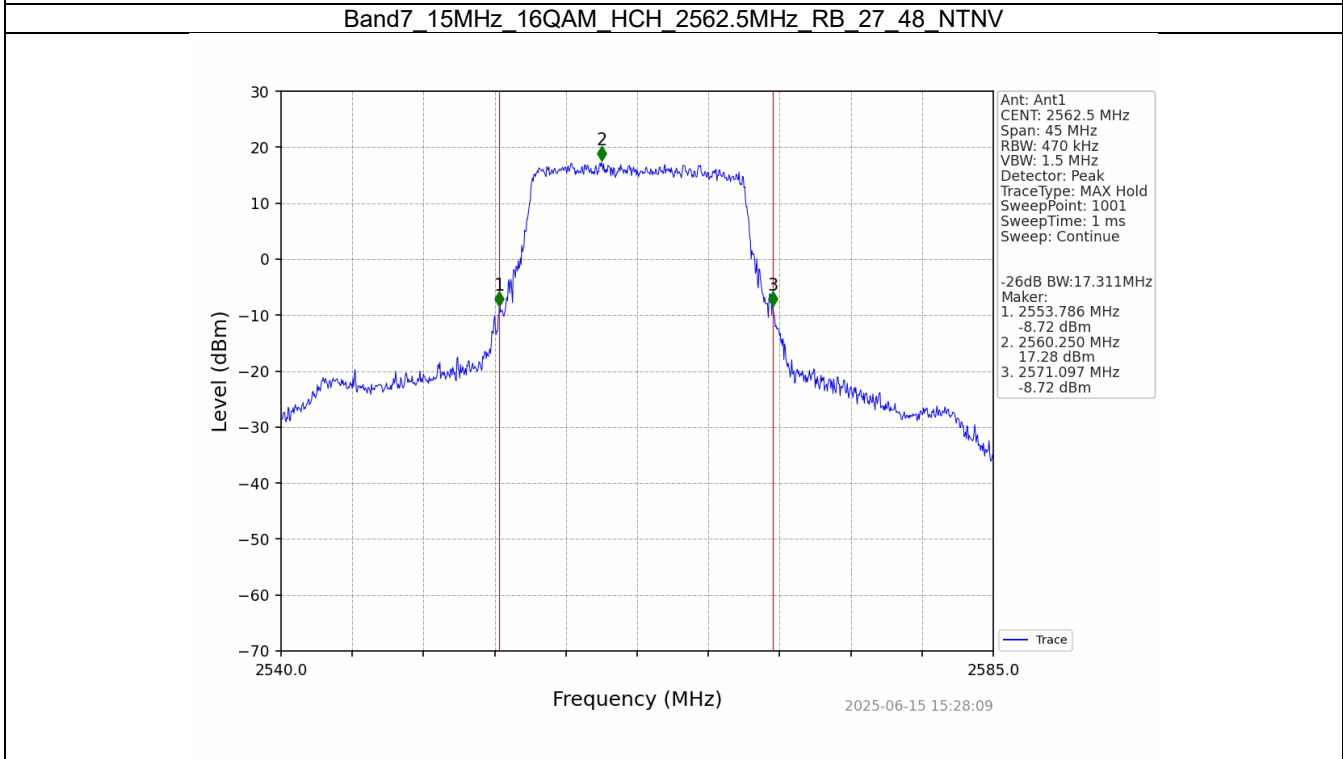
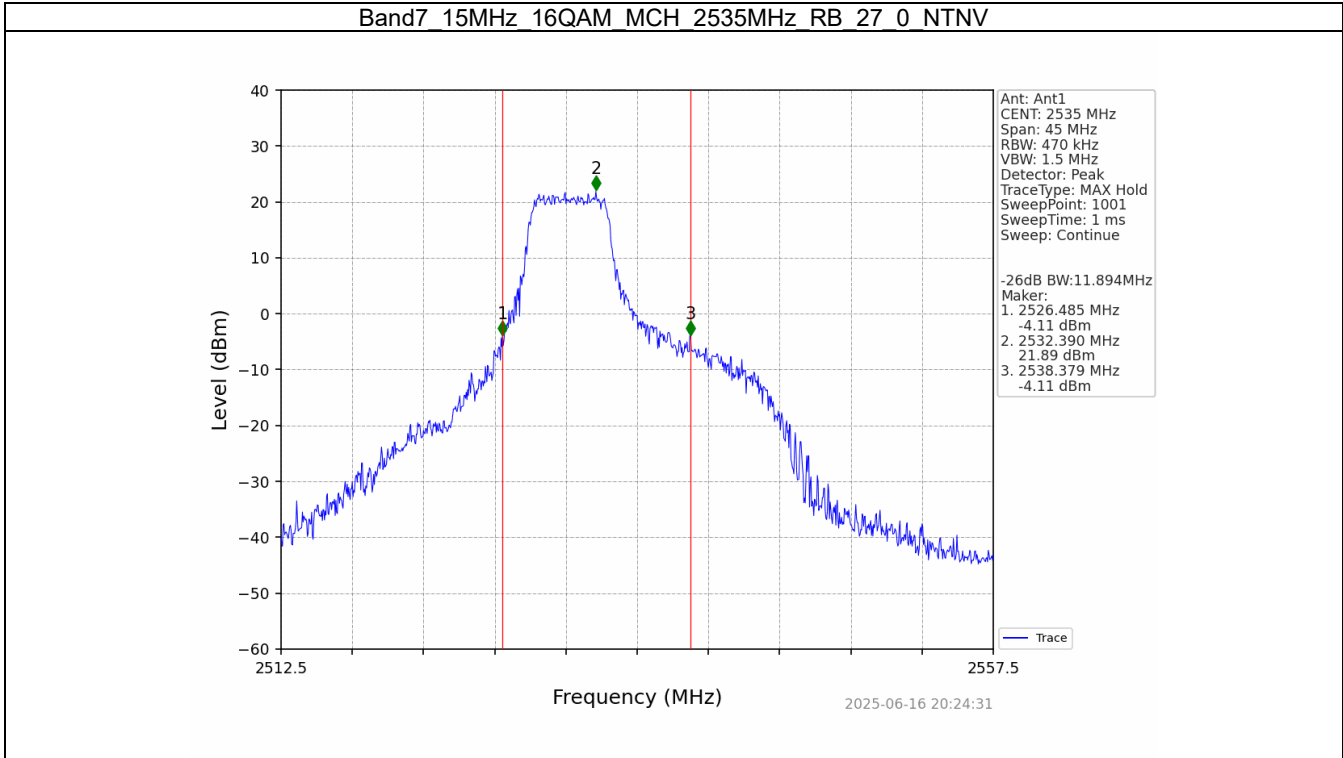


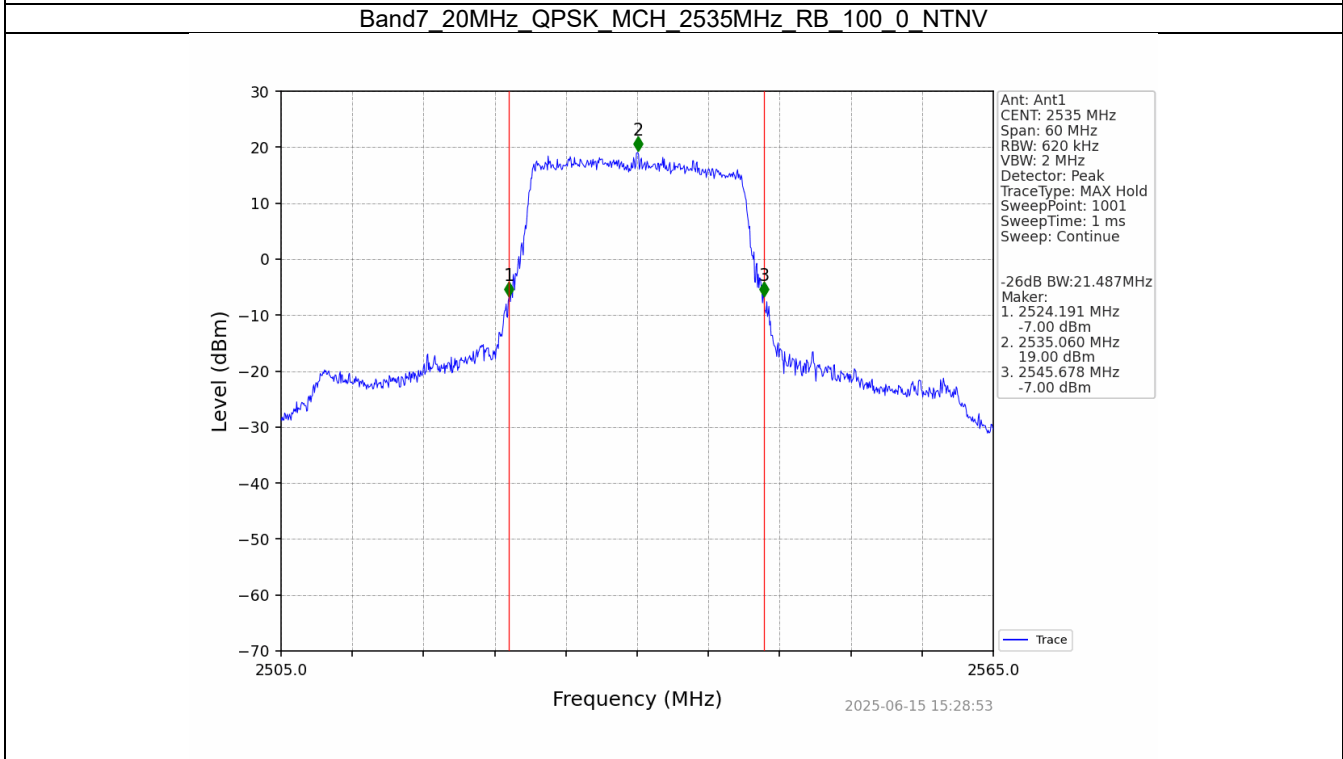
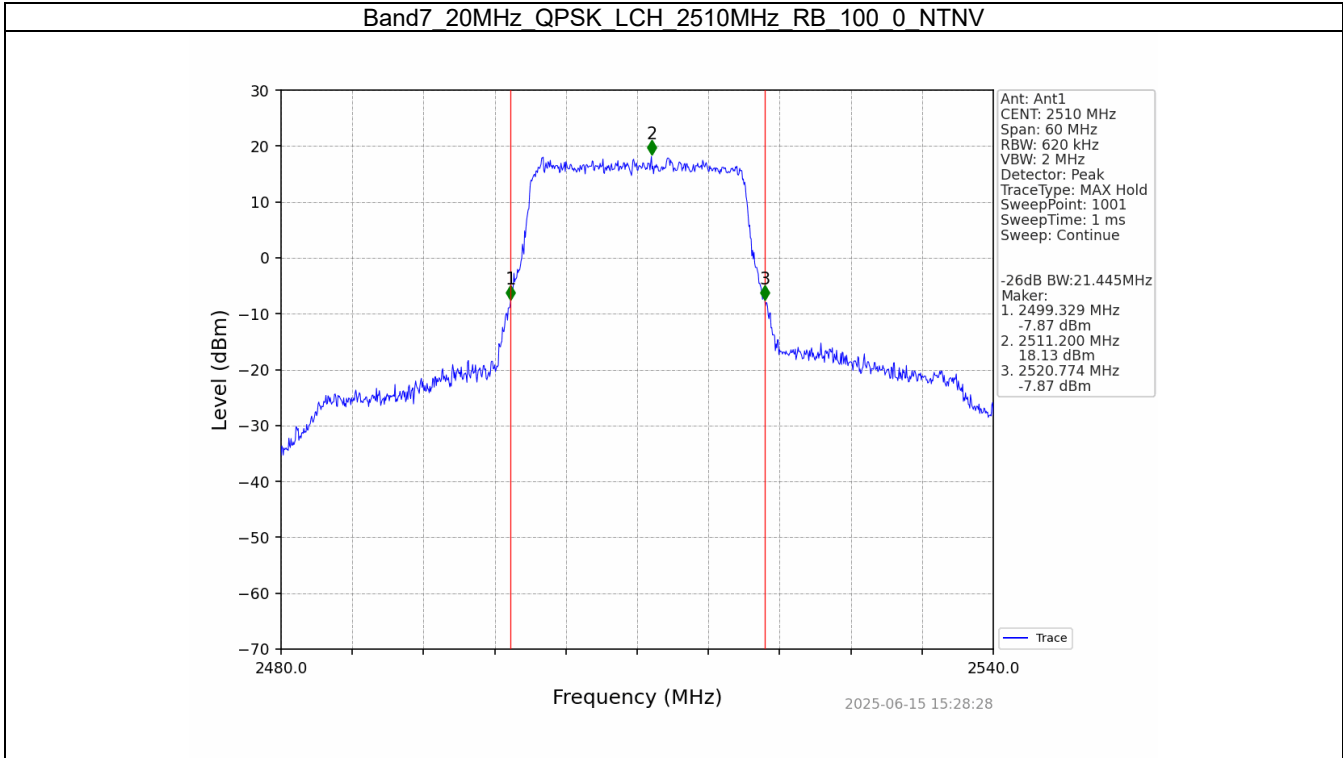


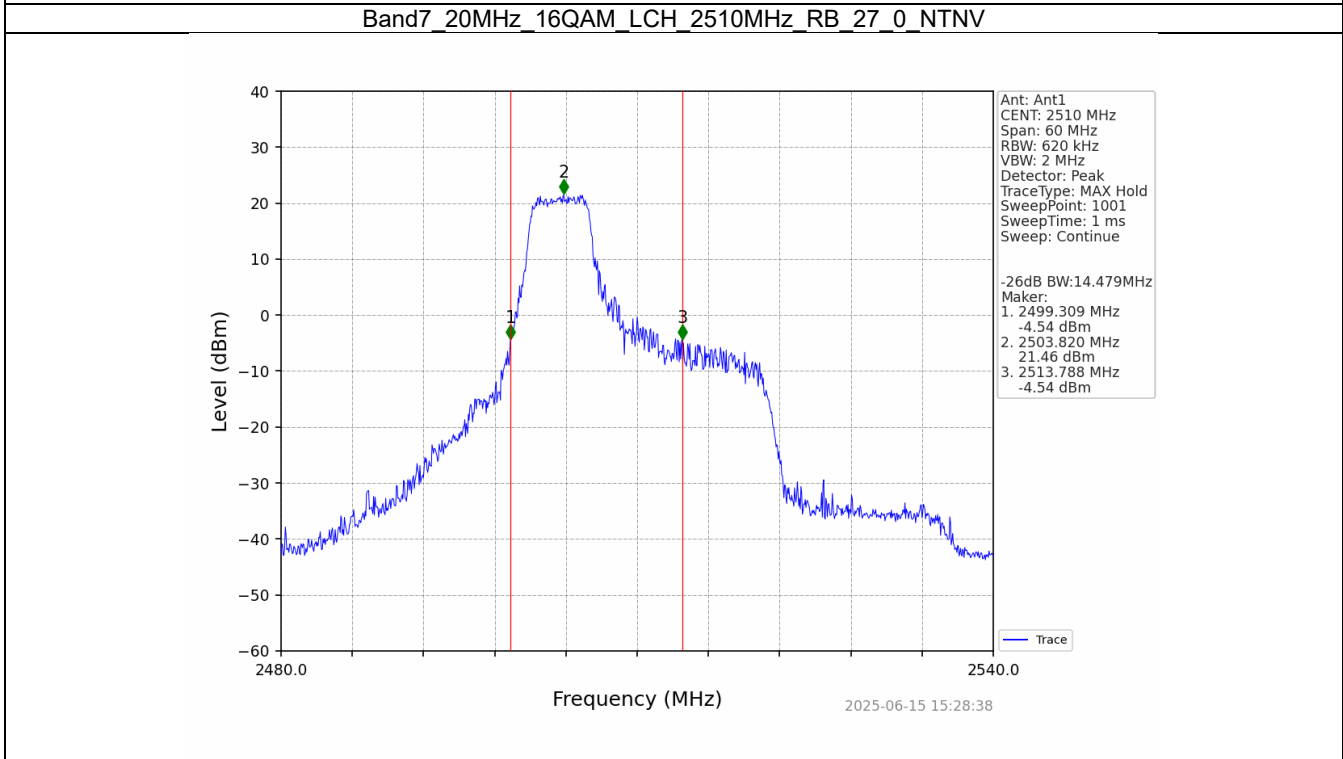
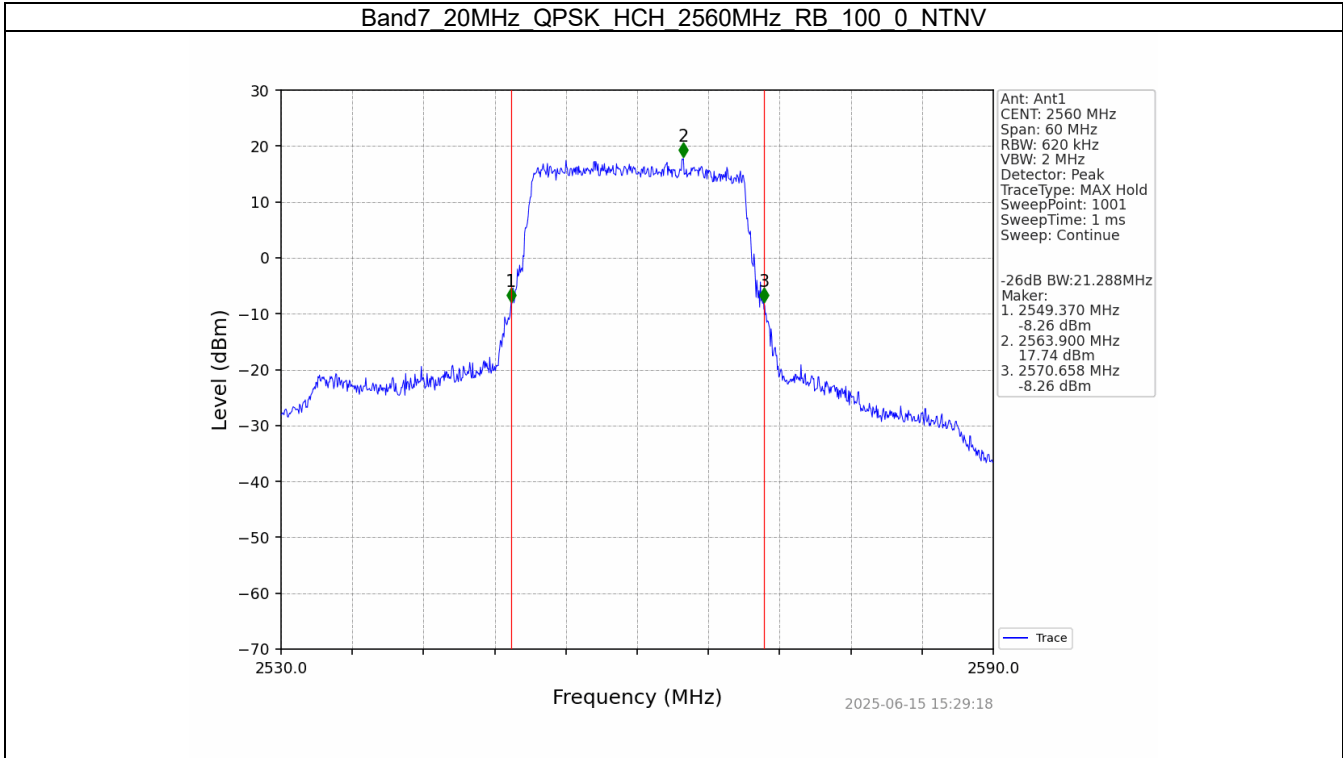


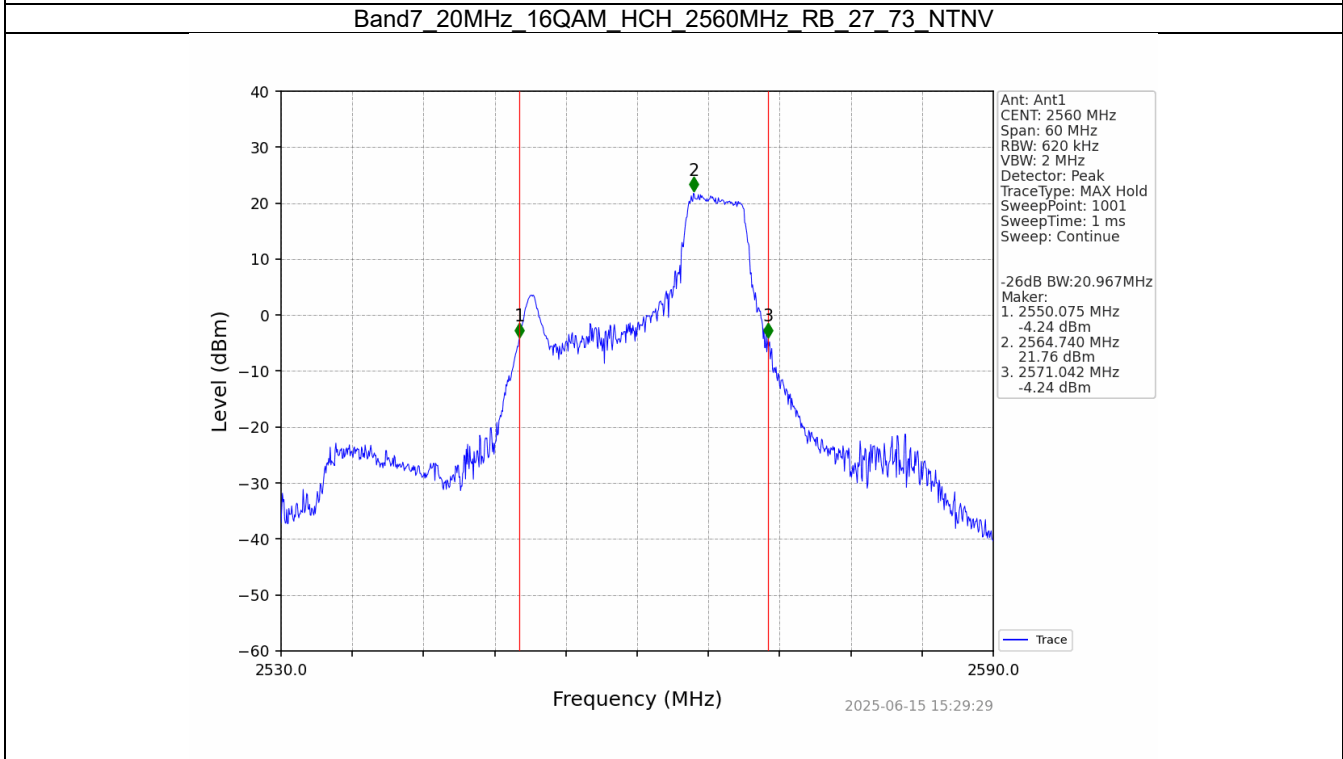
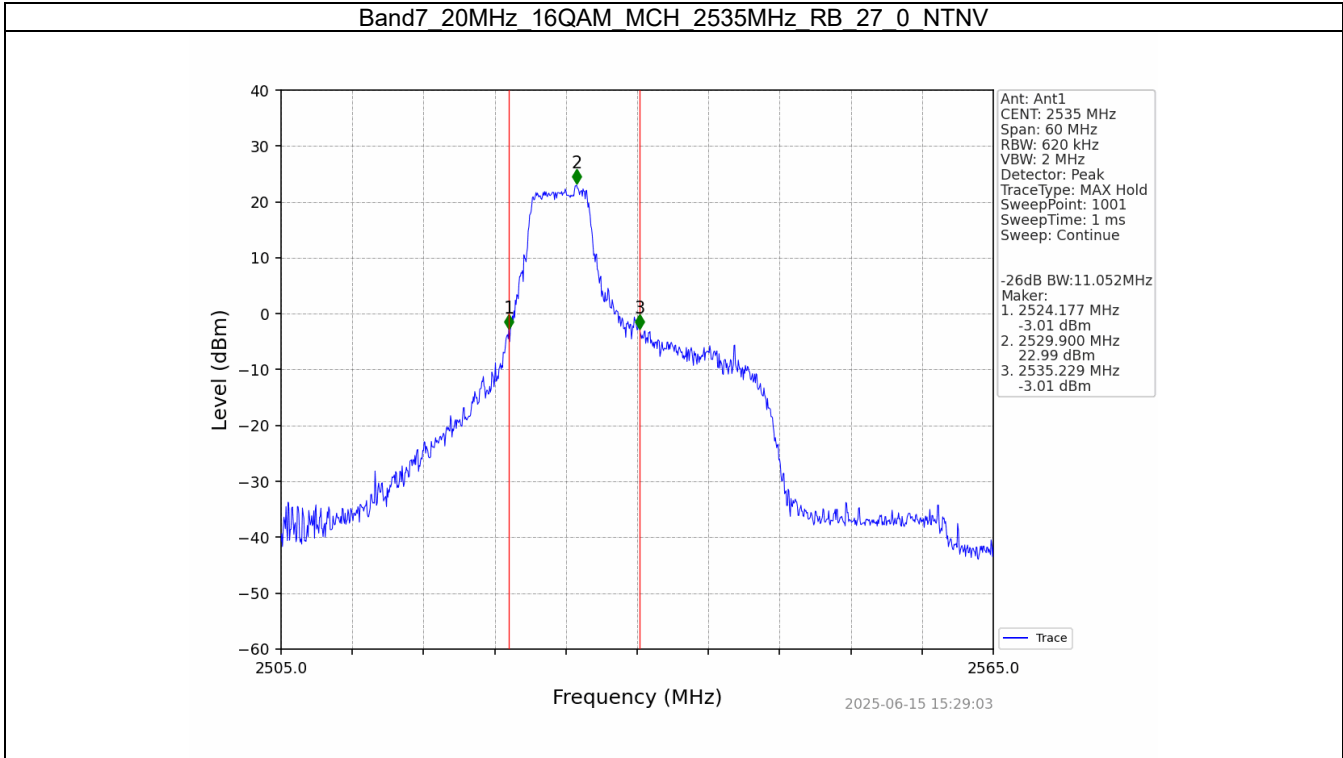












5. Peak-Average Ratio

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	5.35	<=13	Pass
	2535	25	0	5.17	<=13	Pass
	2567.5	25	0	5.18	<=13	Pass
16QAM	2502.5	25	0	6.20	<=13	Pass
	2535	25	0	5.90	<=13	Pass
	2567.5	25	0	5.93	<=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	5.39	<=13	Pass
	2535	50	0	5.10	<=13	Pass
	2565	50	0	5.14	<=13	Pass
16QAM	2505	27	0	6.00	<=13	Pass
	2535	27	0	5.58	<=13	Pass
	2565	27	23	5.40	<=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	5.61	<=13	Pass
	2535	75	0	5.41	<=13	Pass
	2562.5	75	0	5.51	<=13	Pass
16QAM	2507.5	27	0	5.85	<=13	Pass
	2535	27	0	5.49	<=13	Pass
	2562.5	27	48	5.36	<=13	Pass

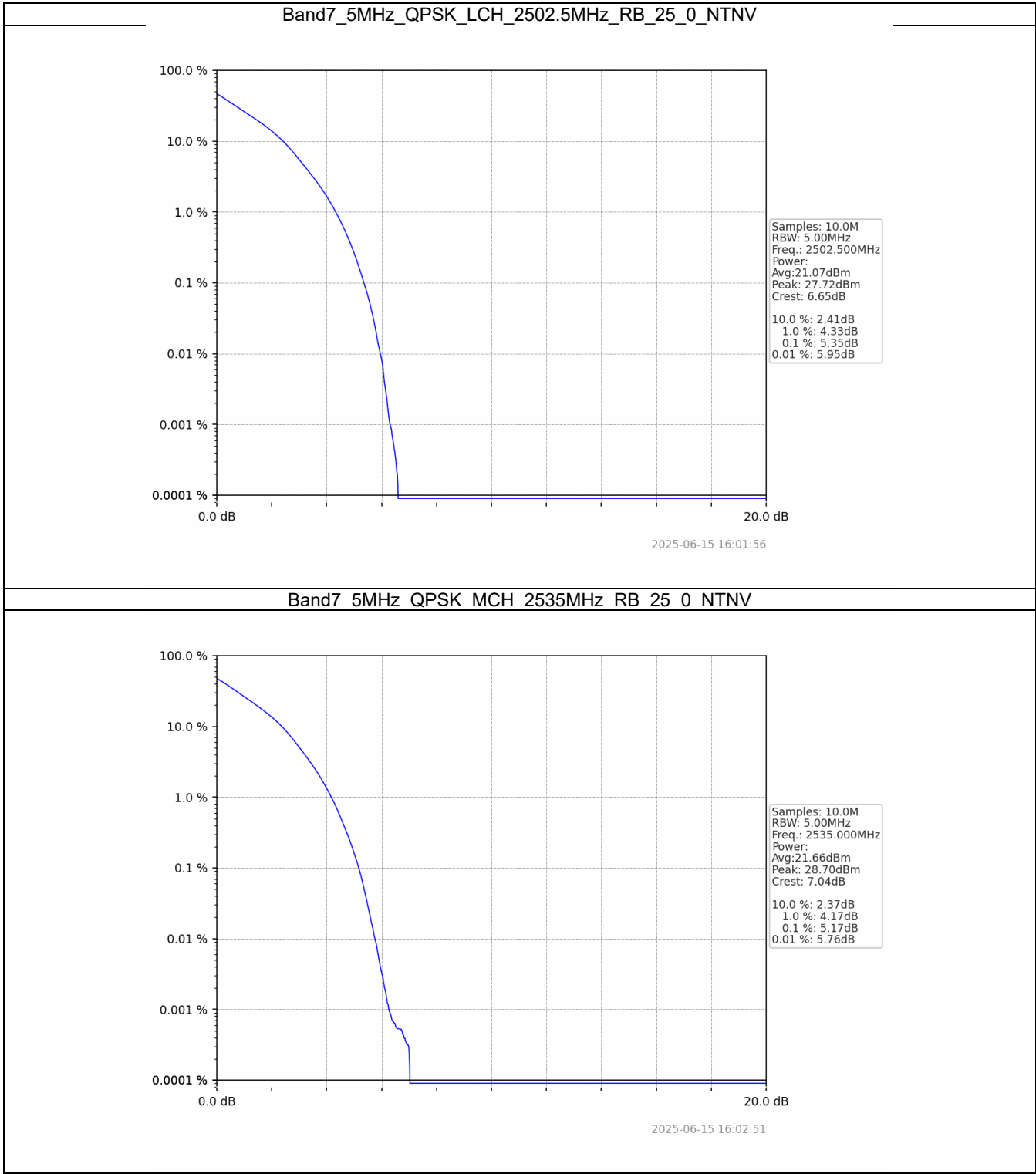
5.1.4 B7_20MHz

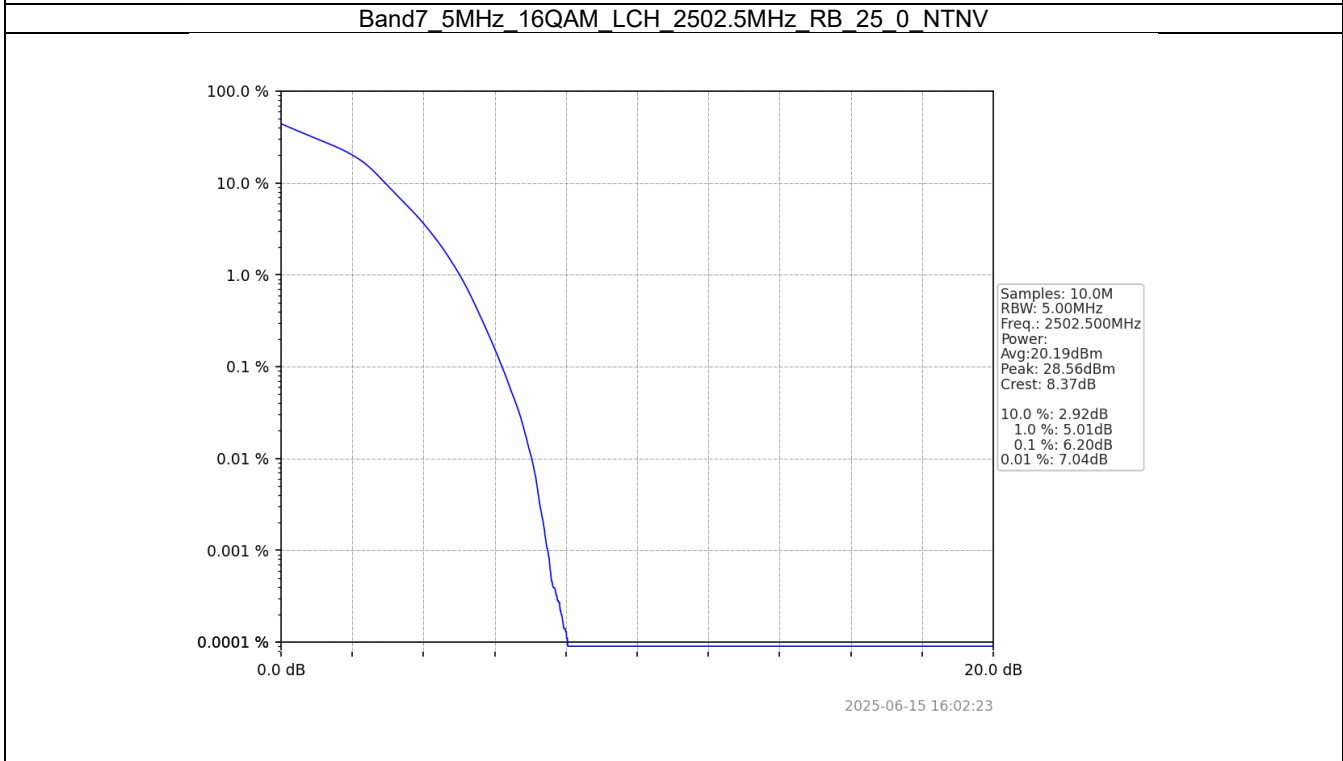
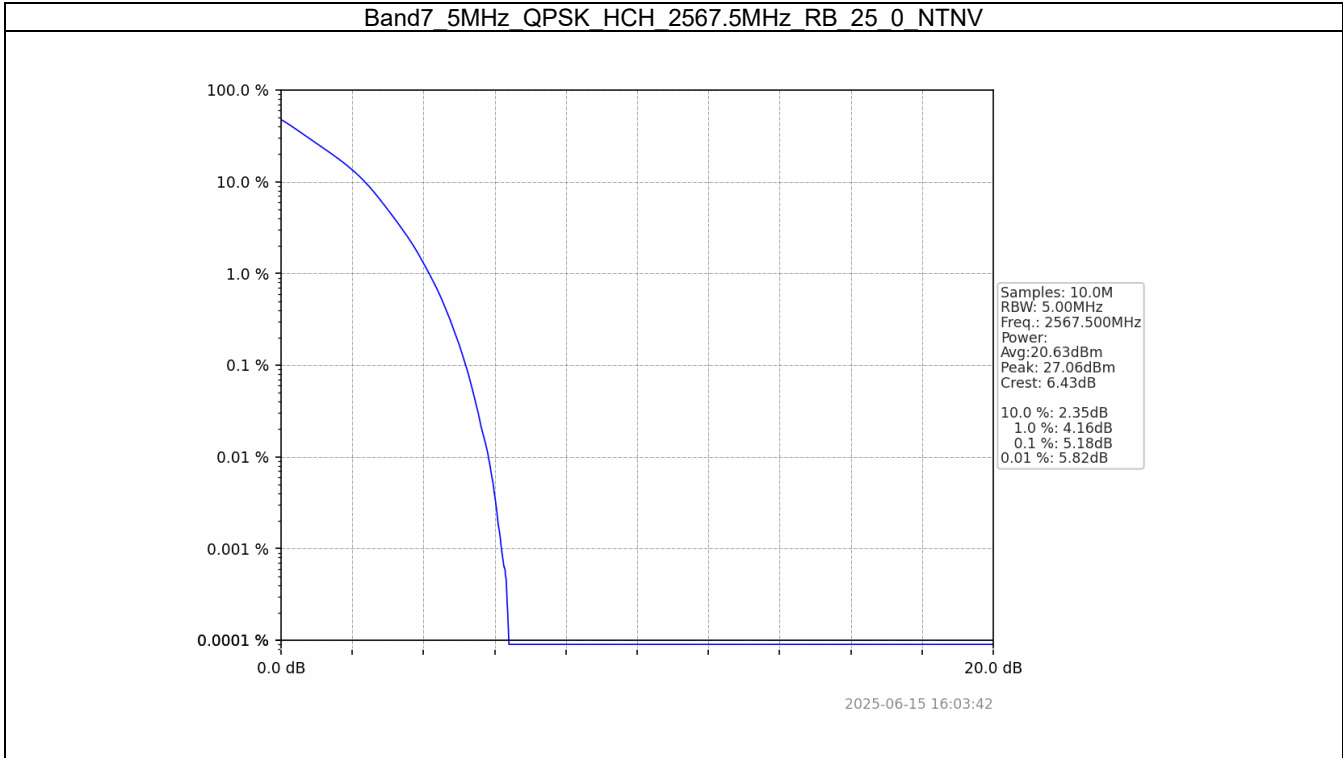
Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	100	0	5.24	<=13	Pass
	2535	100	0	5.15	<=13	Pass
	2560	100	0	5.27	<=13	Pass
16QAM	2510	27	0	5.95	<=13	Pass
	2535	27	0	5.38	<=13	Pass

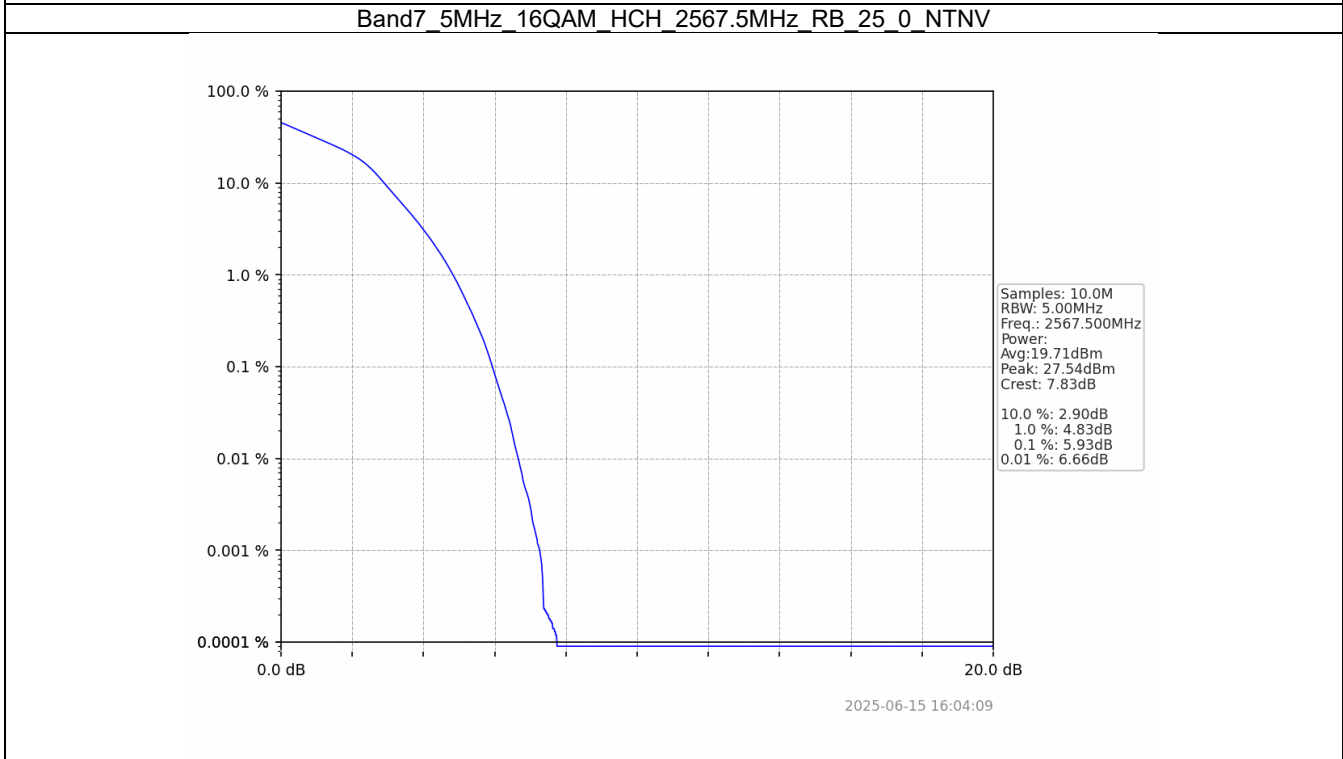
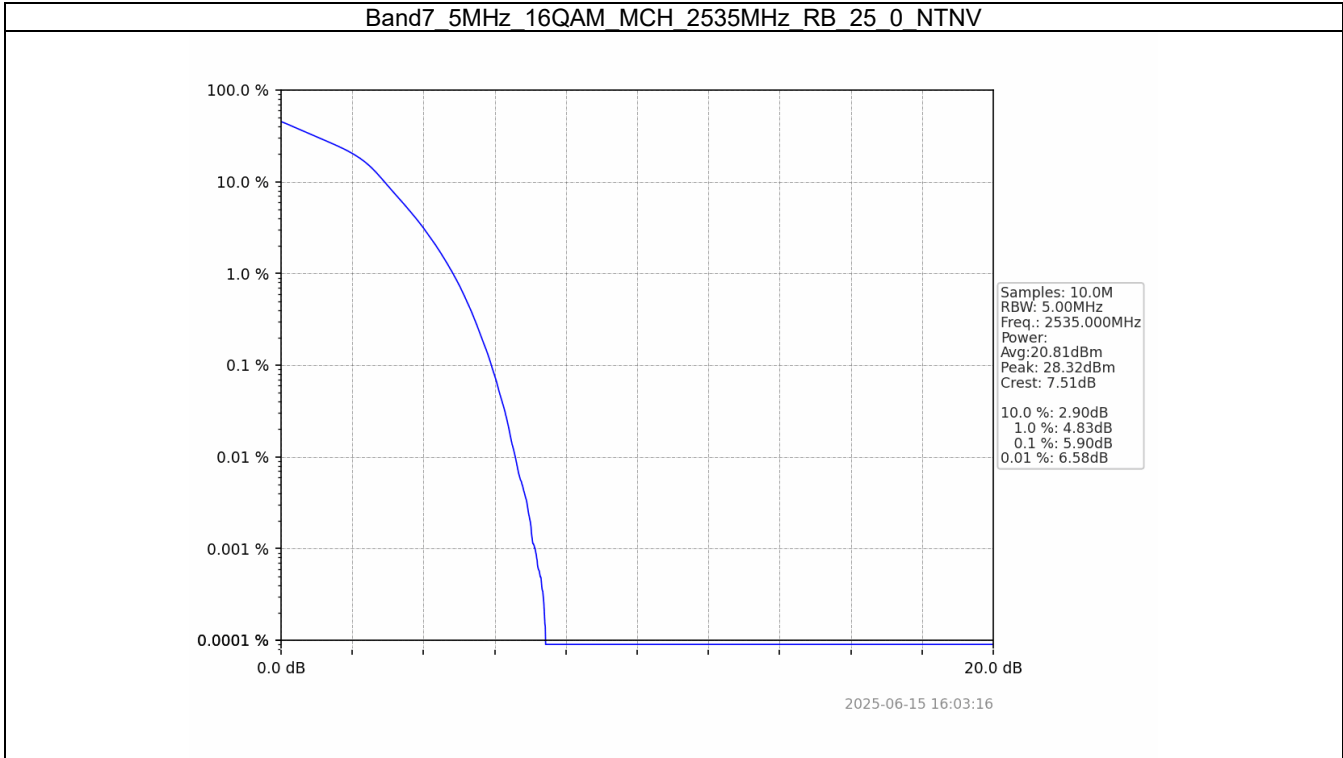
	2560	27	73	5.32	<=13	Pass
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5.2 Test Graph

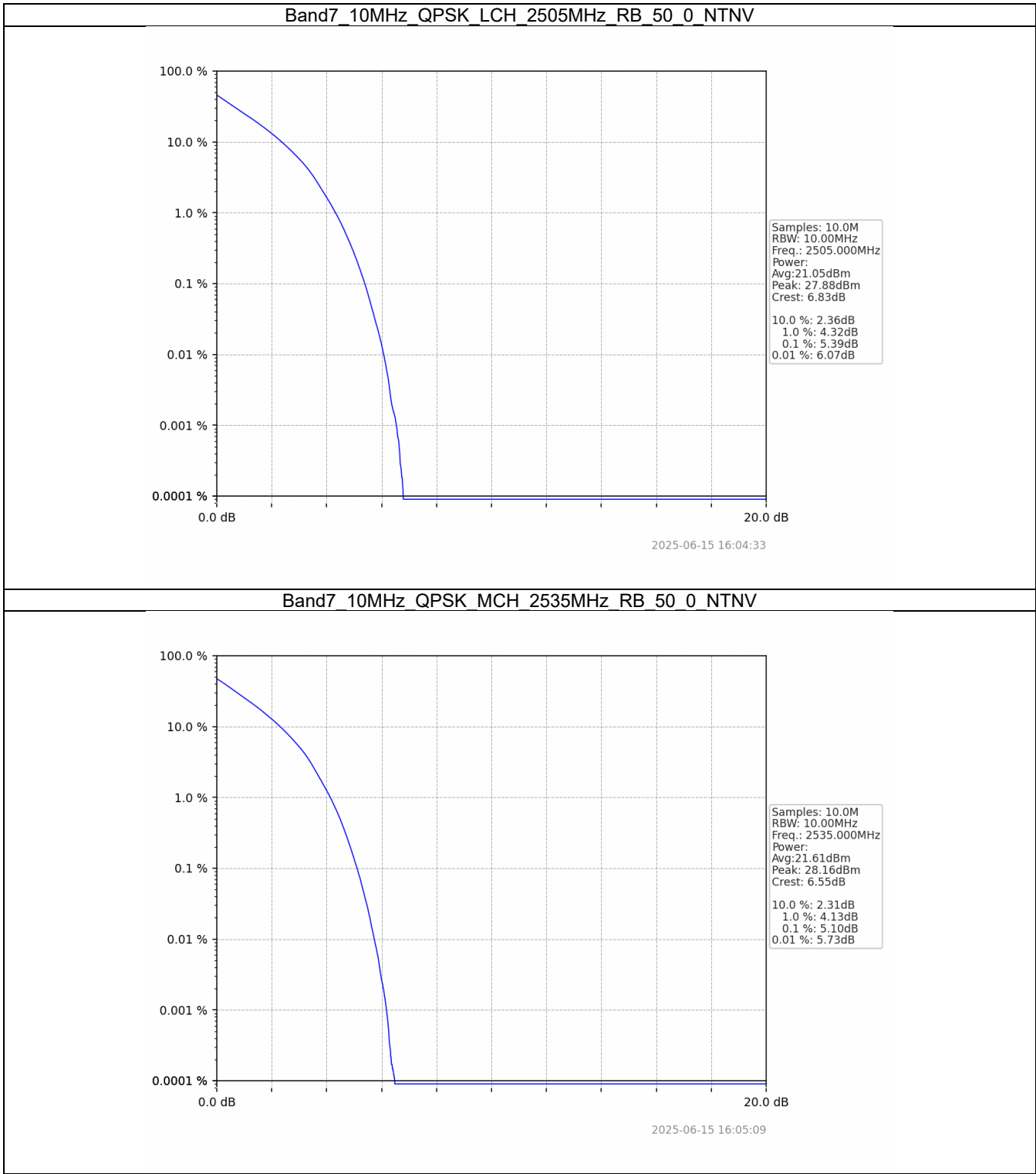
5.2.1 B7_5MHz



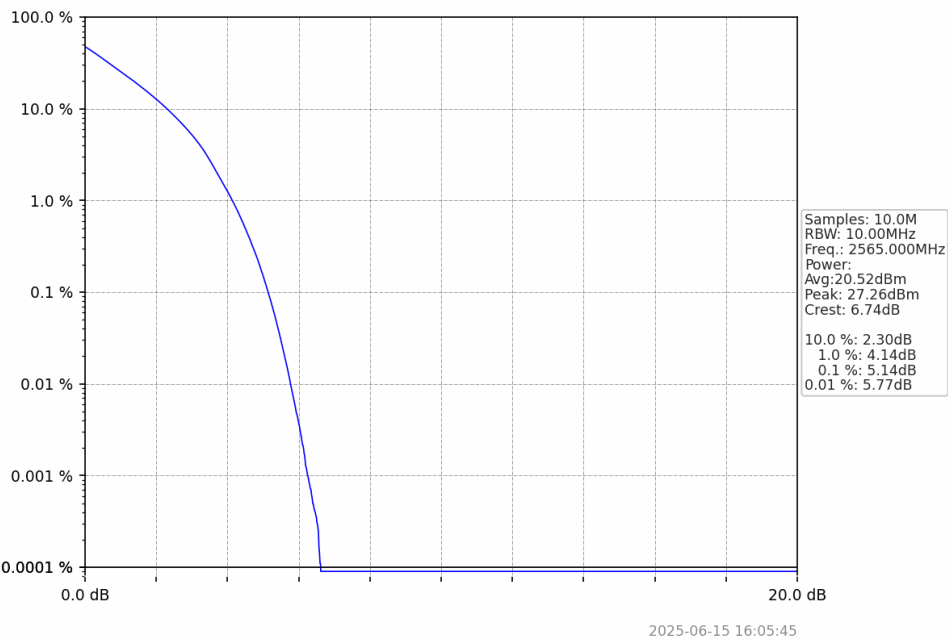




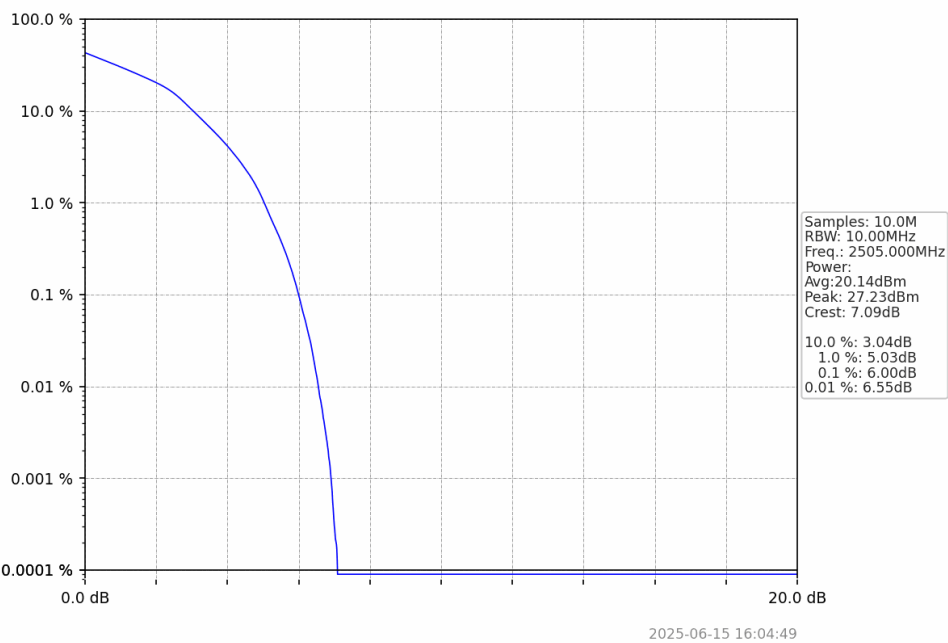
5.2.2 B7_10MHz

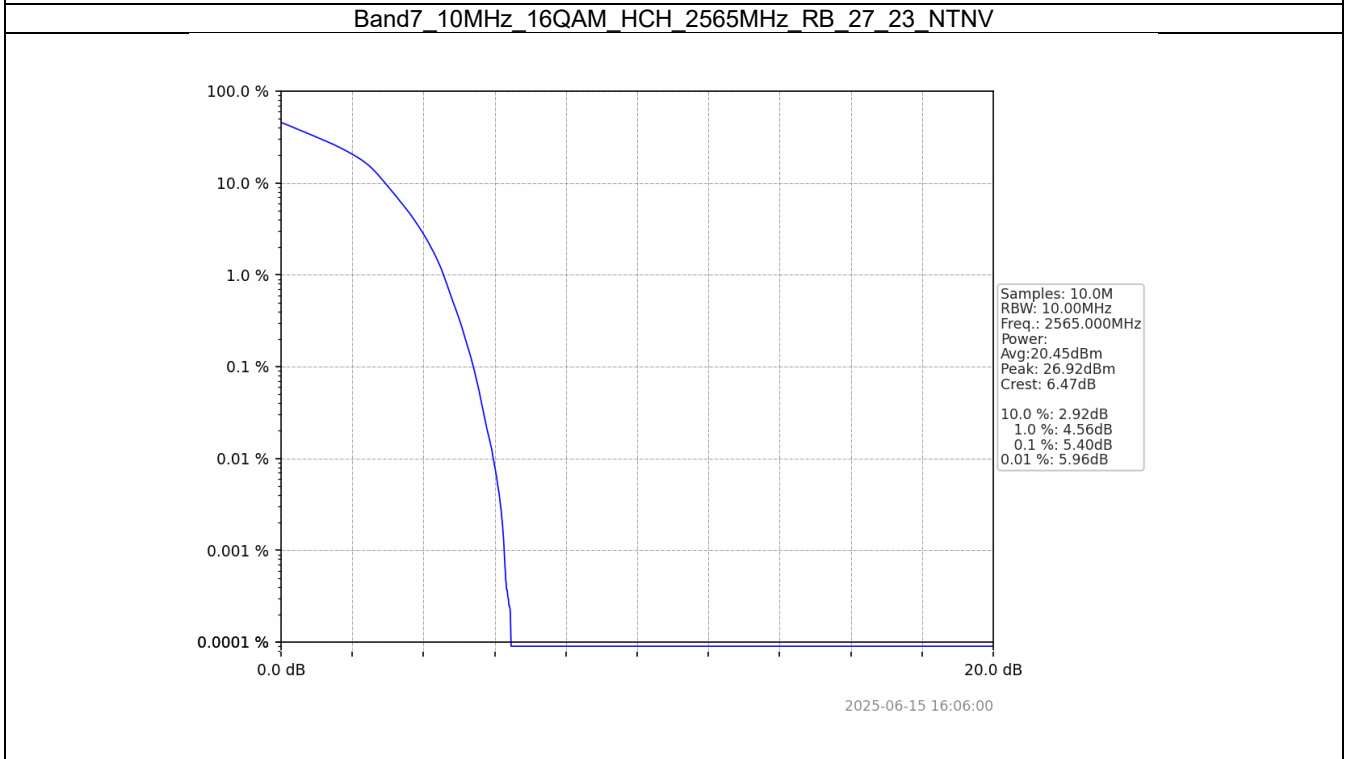
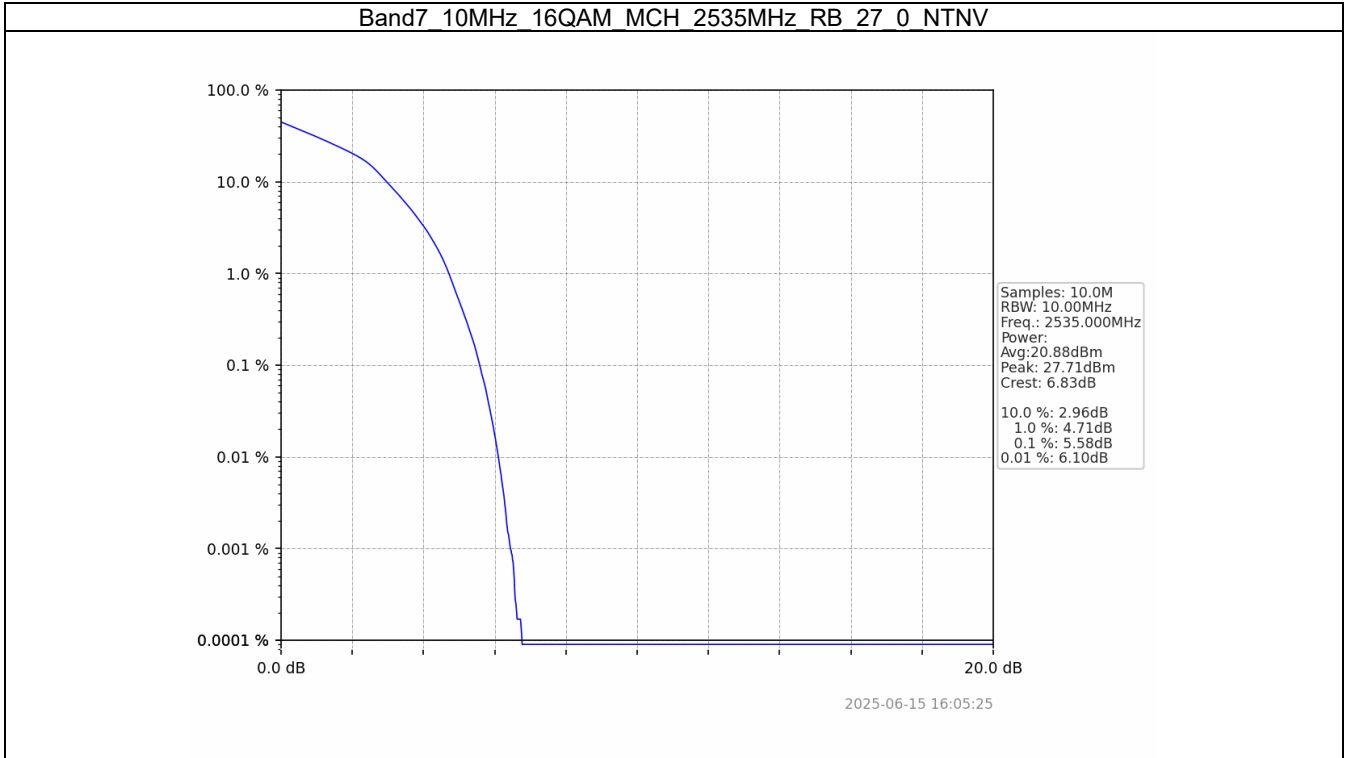


Band7 10MHz QPSK HCH 2565MHz RB 50 0 NTN

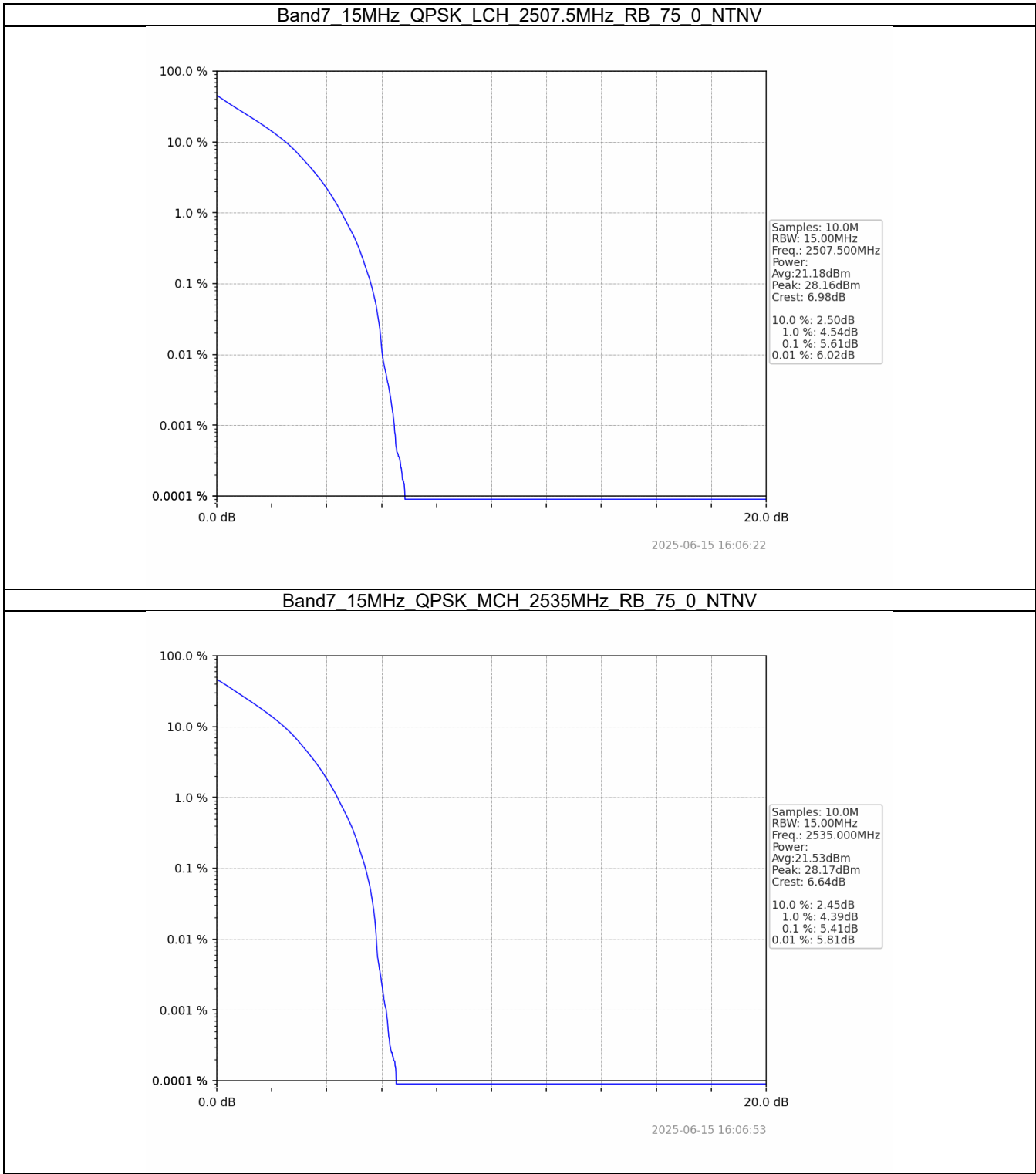


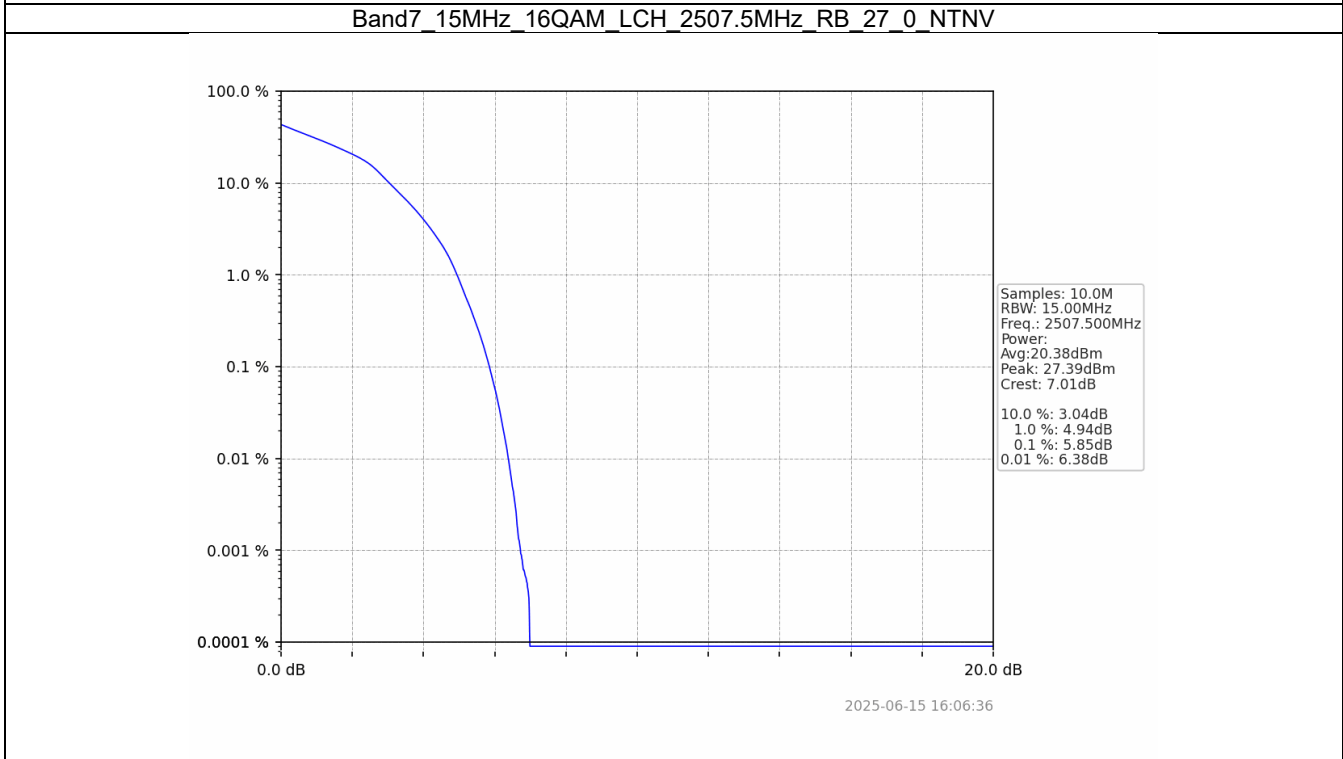
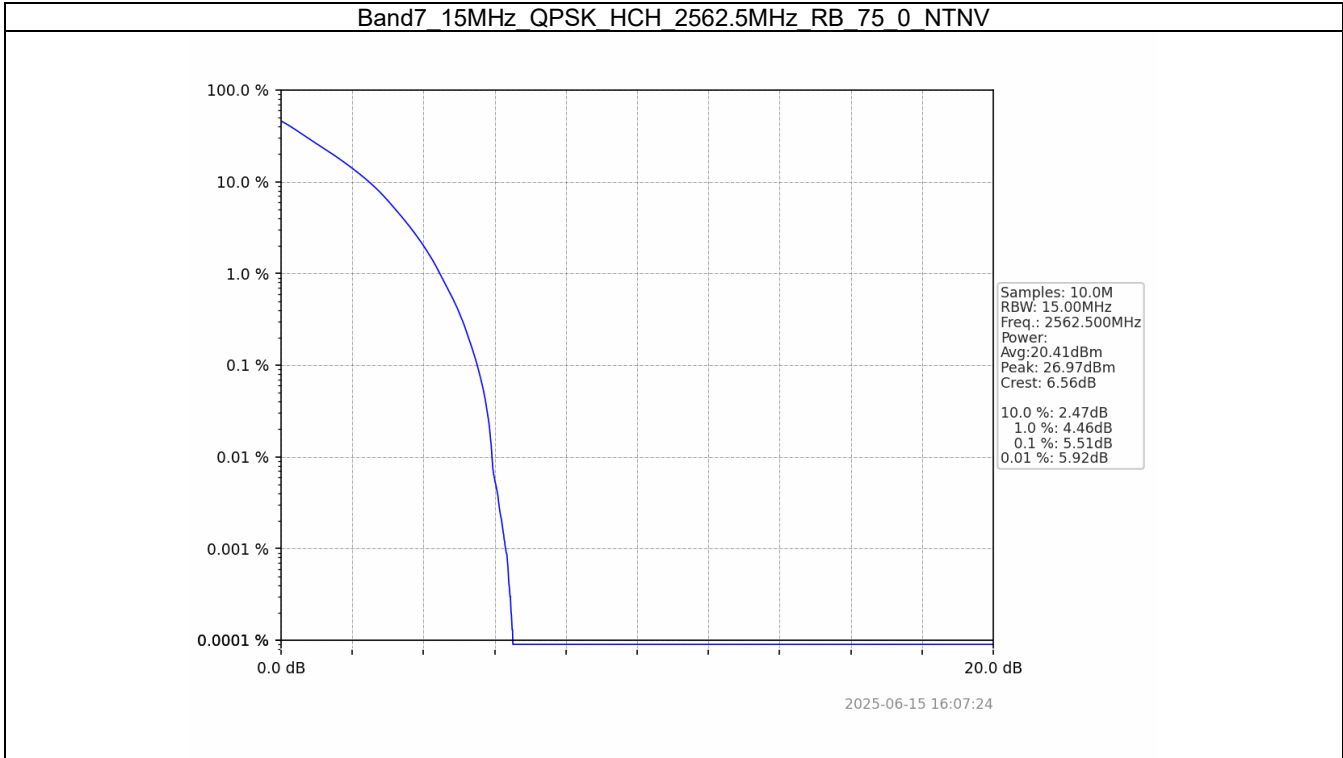
Band7 10MHz 16QAM LCH 2505MHz RB 27 0 NTN

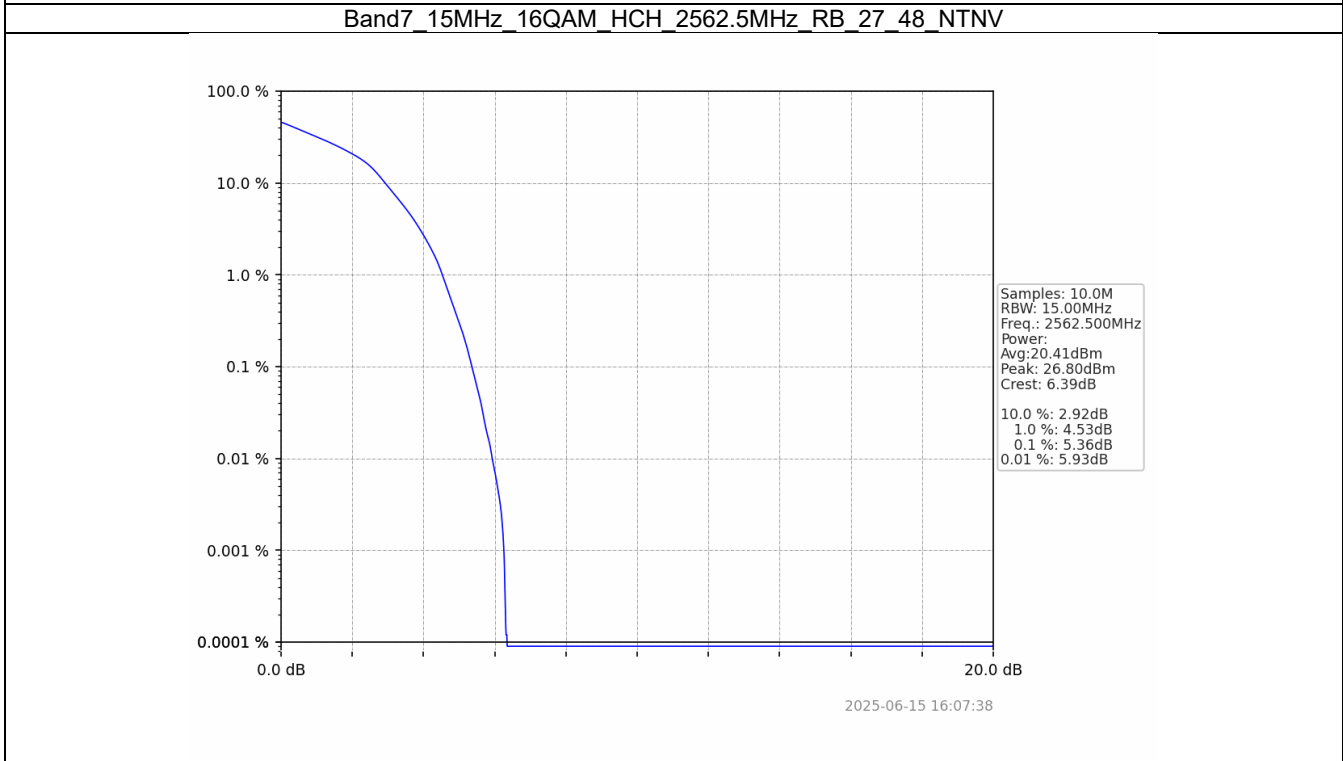
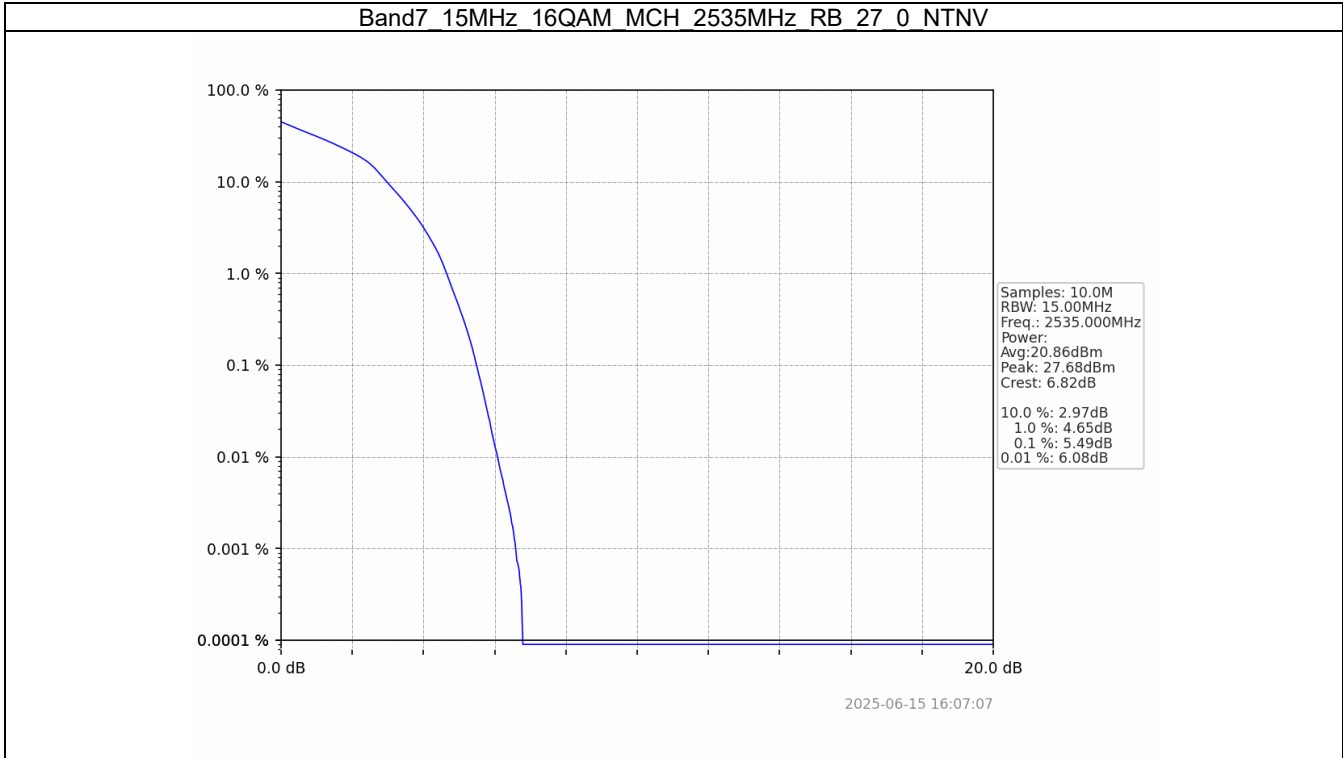




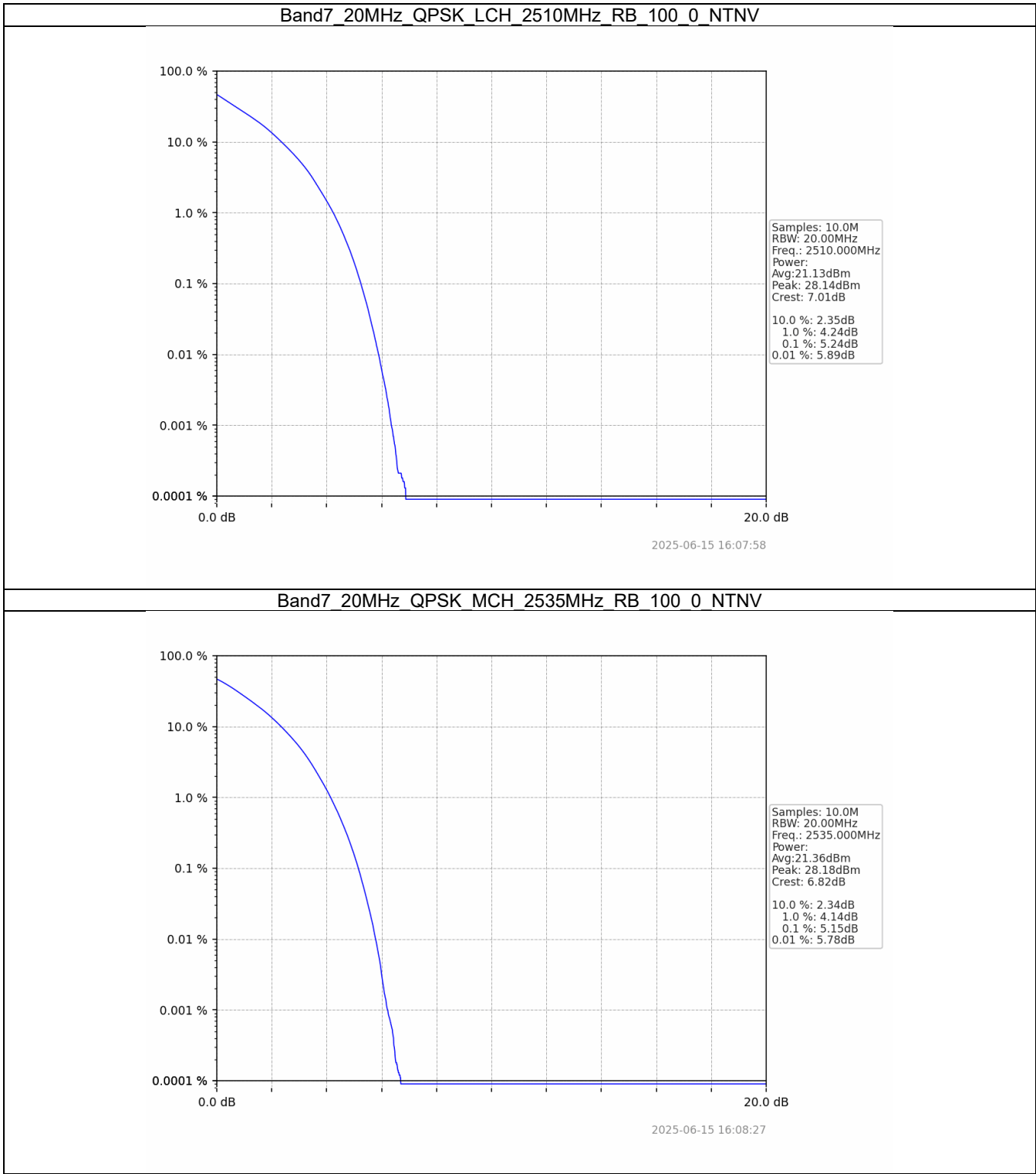
5.2.3 B7_15MHz

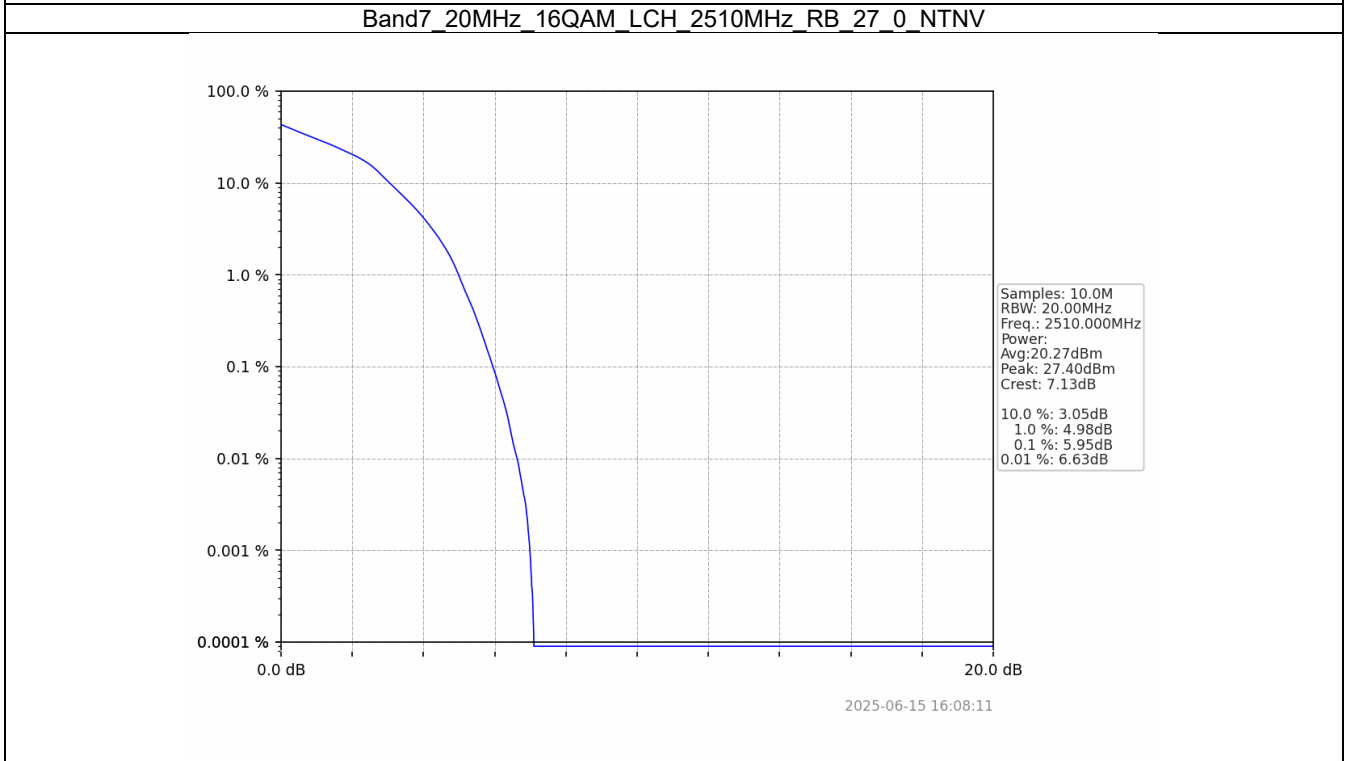
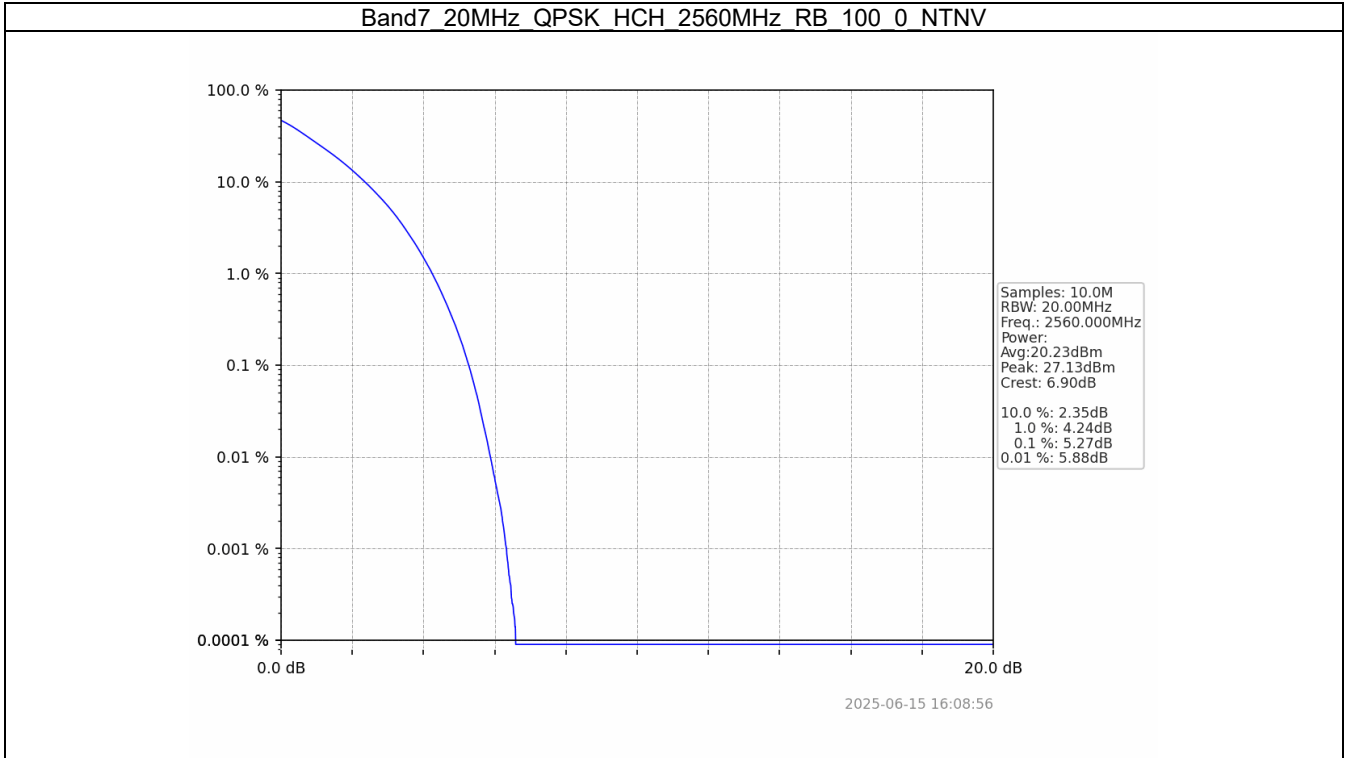


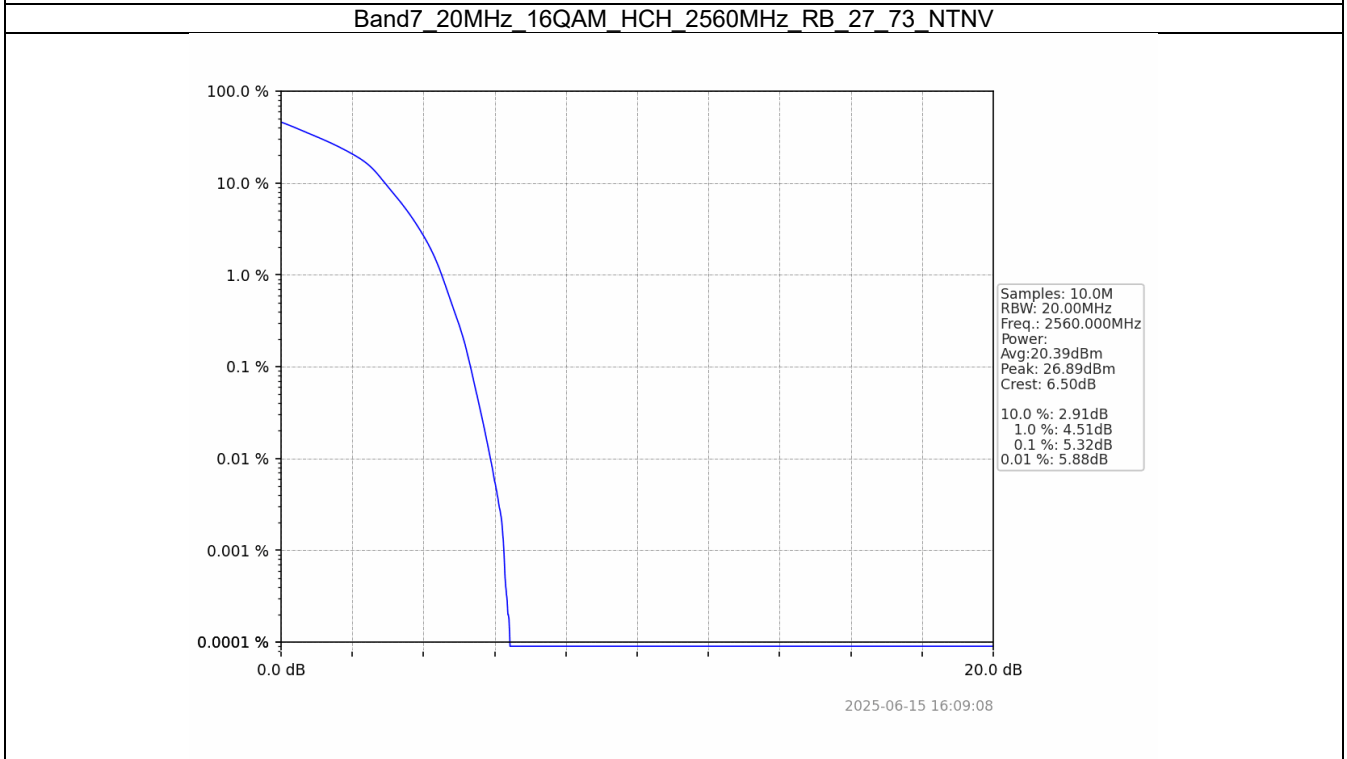
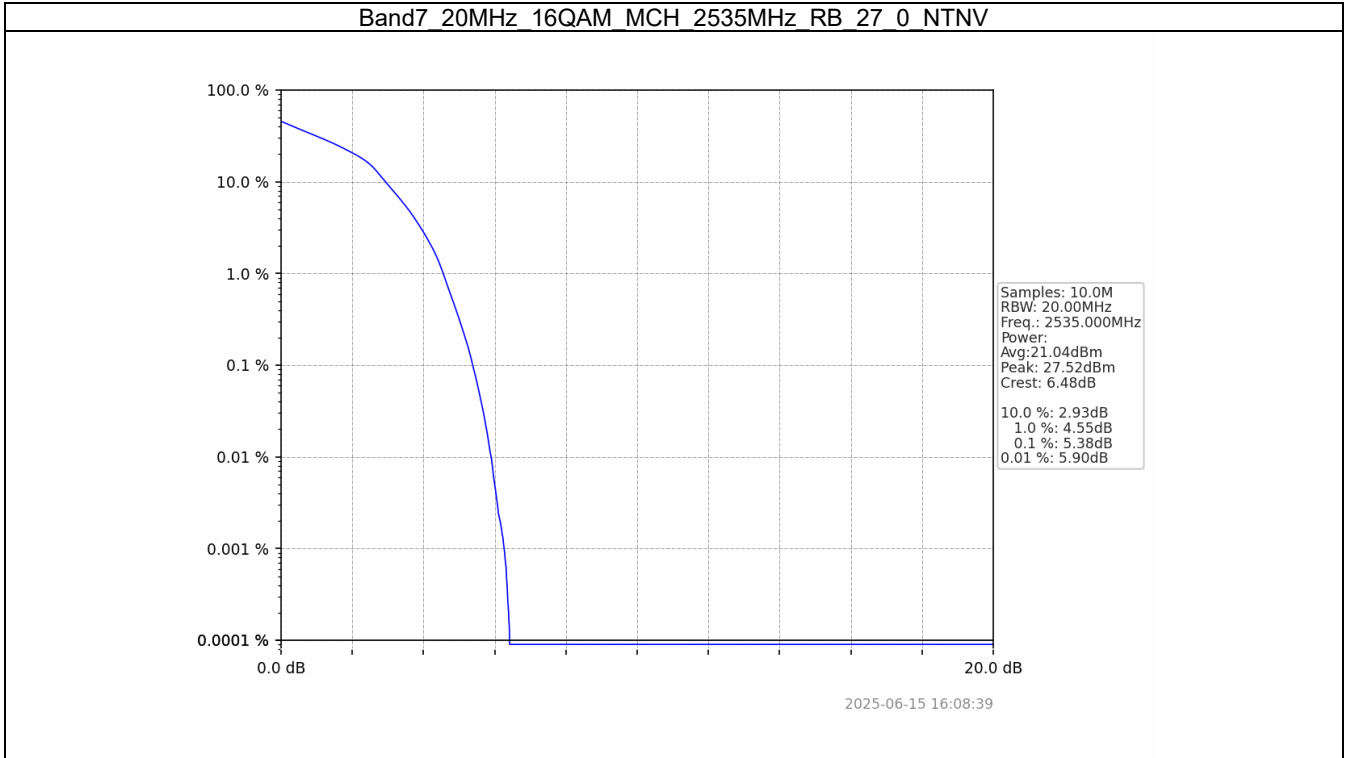




5.2.4 B7_20MHz







6. Spurious Emission

6.1 Test Result

6.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2502.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2567.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2502.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2567.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

6.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2565	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	2505	1	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2565	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
				Refer To Test Graph		Pass

6.1.3 B7_15MHz

Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2507.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2562.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	2507.5	1	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2562.5	1	0	Refer To Test Graph		Pass

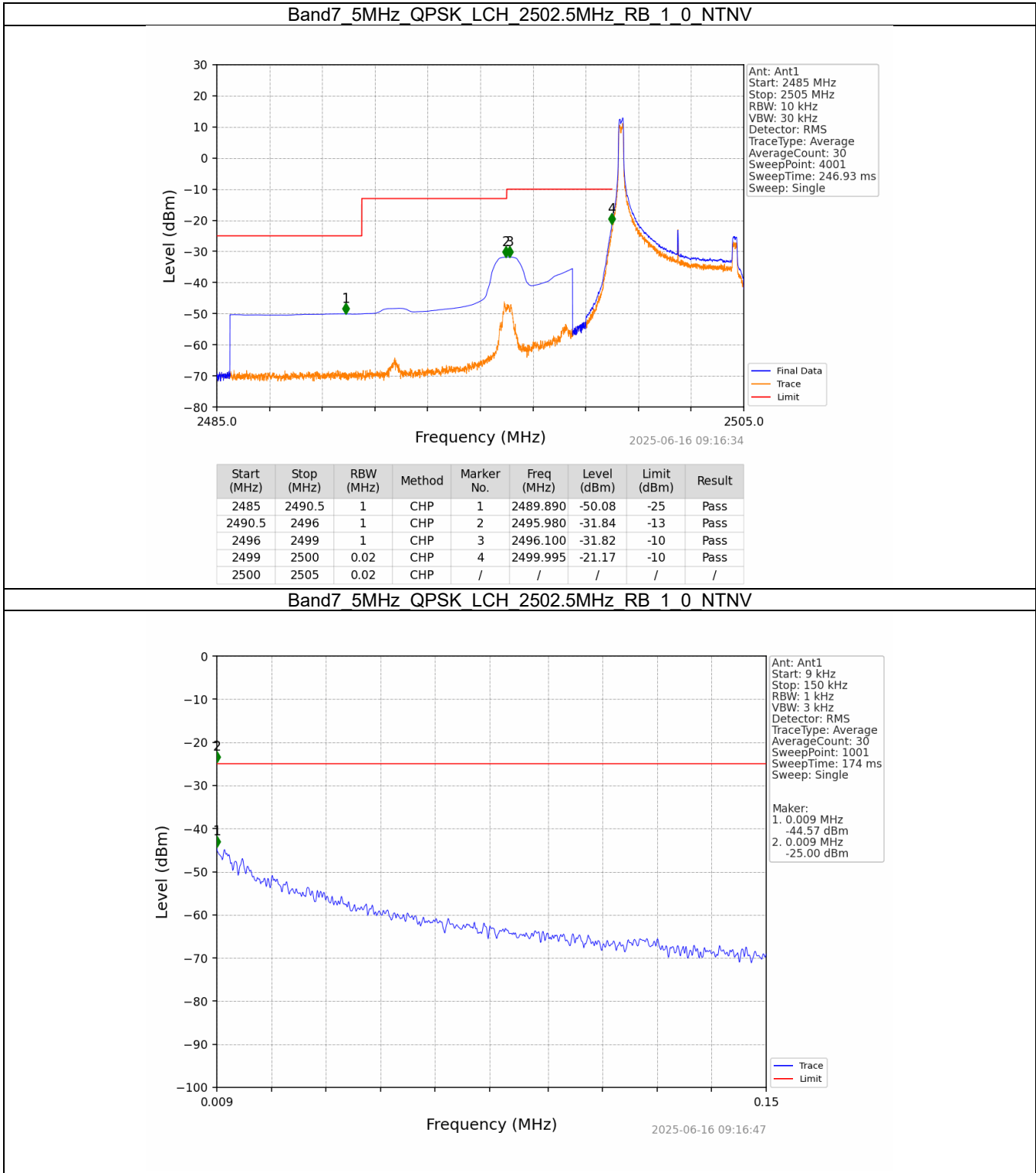
			74	Refer To Test Graph	Pass
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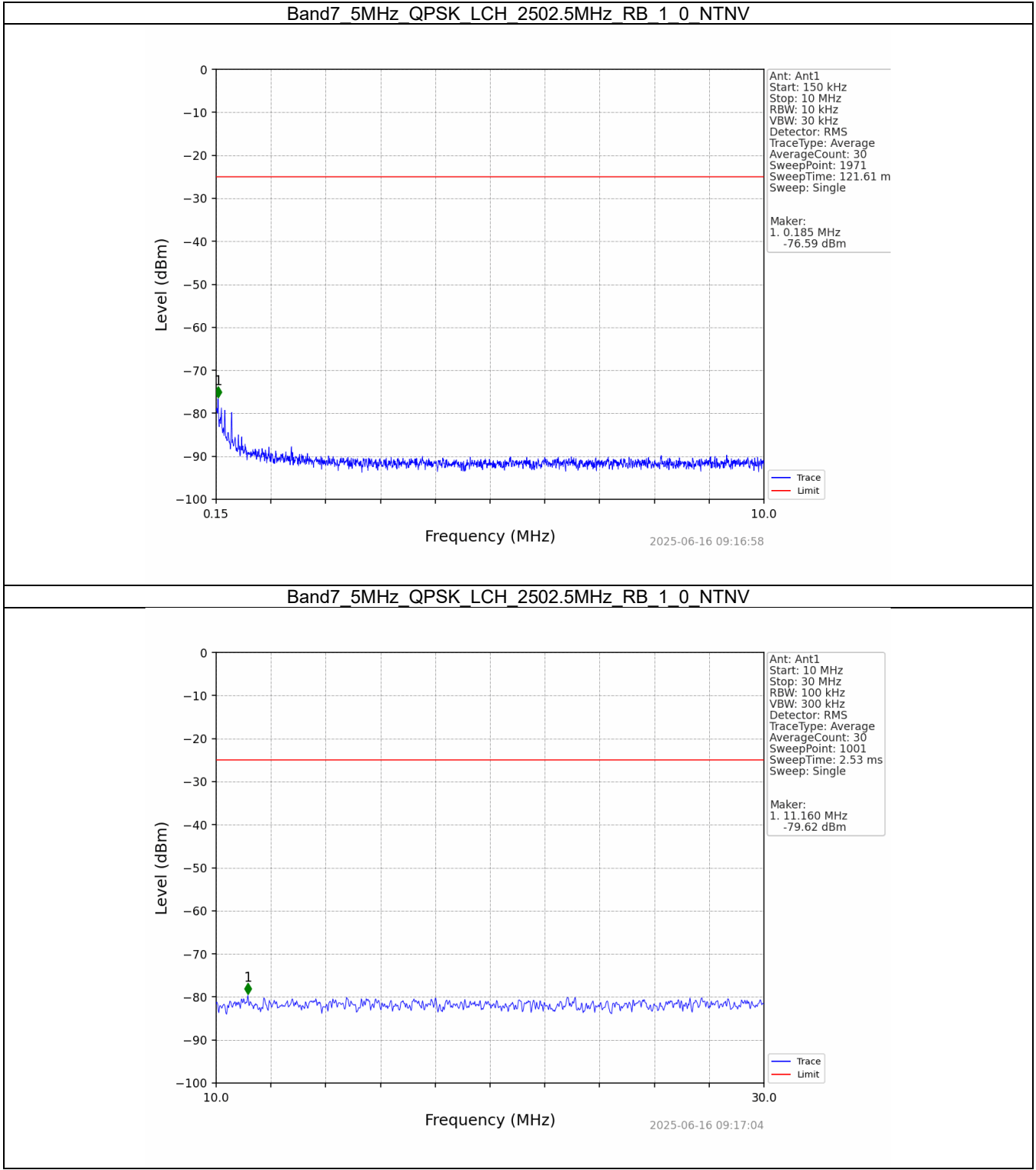
6.1.4 B7_20MHz

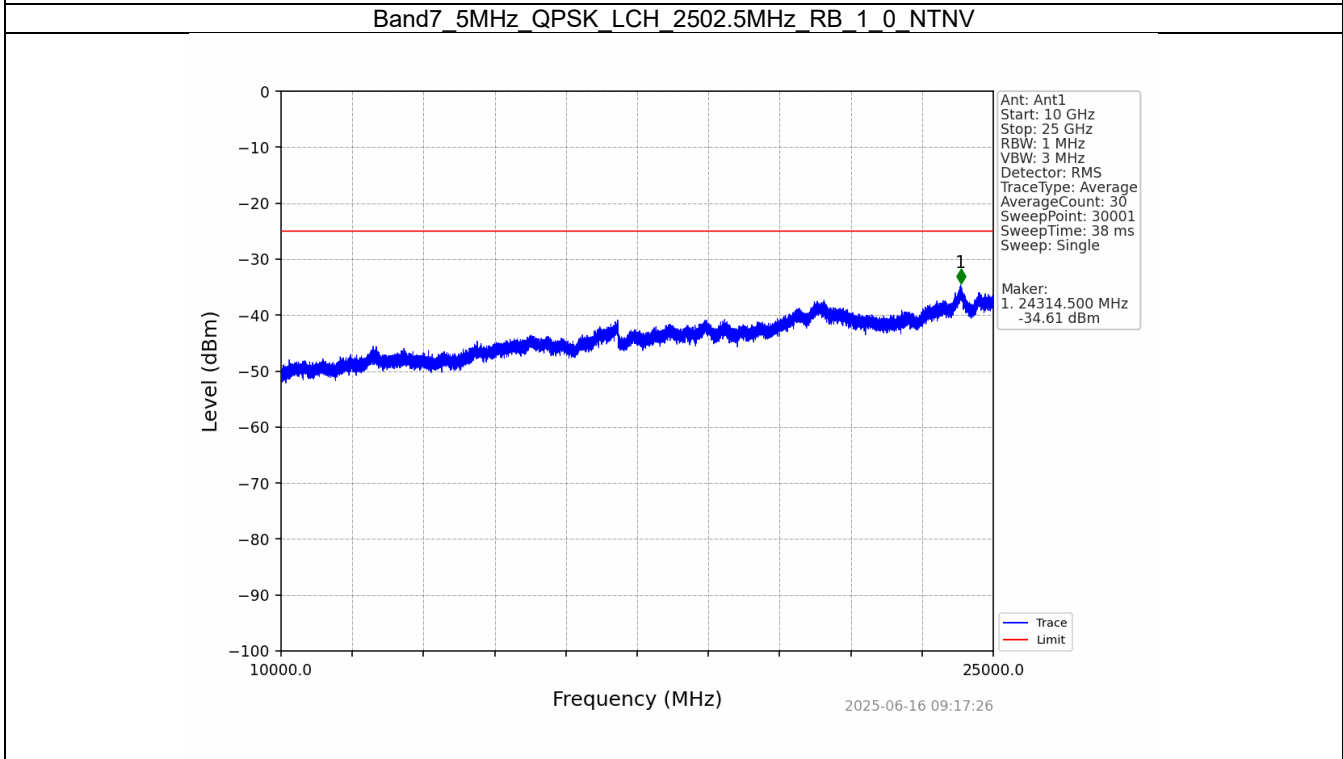
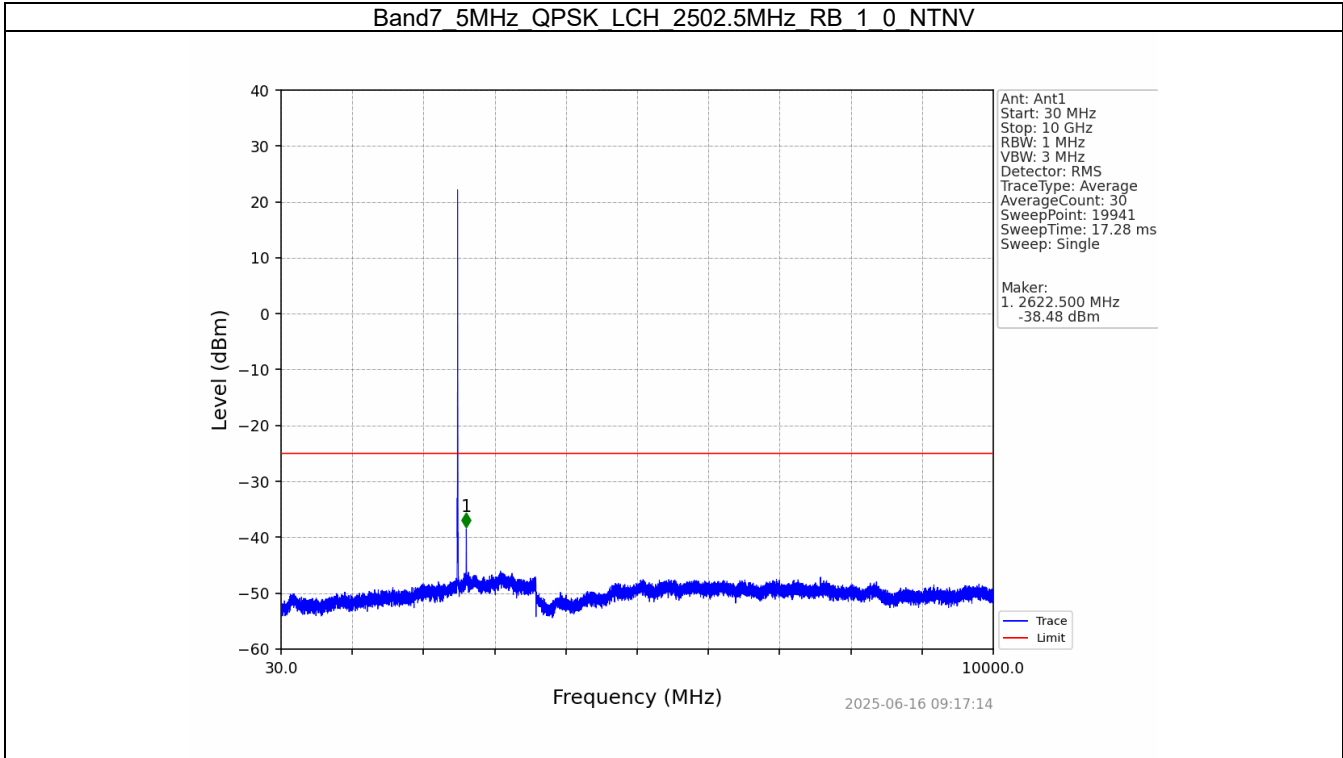
Band: 7 / Bandwidth: 20MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2510	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
	2535	1	0	Refer To Test Graph	Pass
	2560	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
16QAM	2510	1	0	Refer To Test Graph	Pass
	2535	1	0	Refer To Test Graph	Pass
	2560	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass

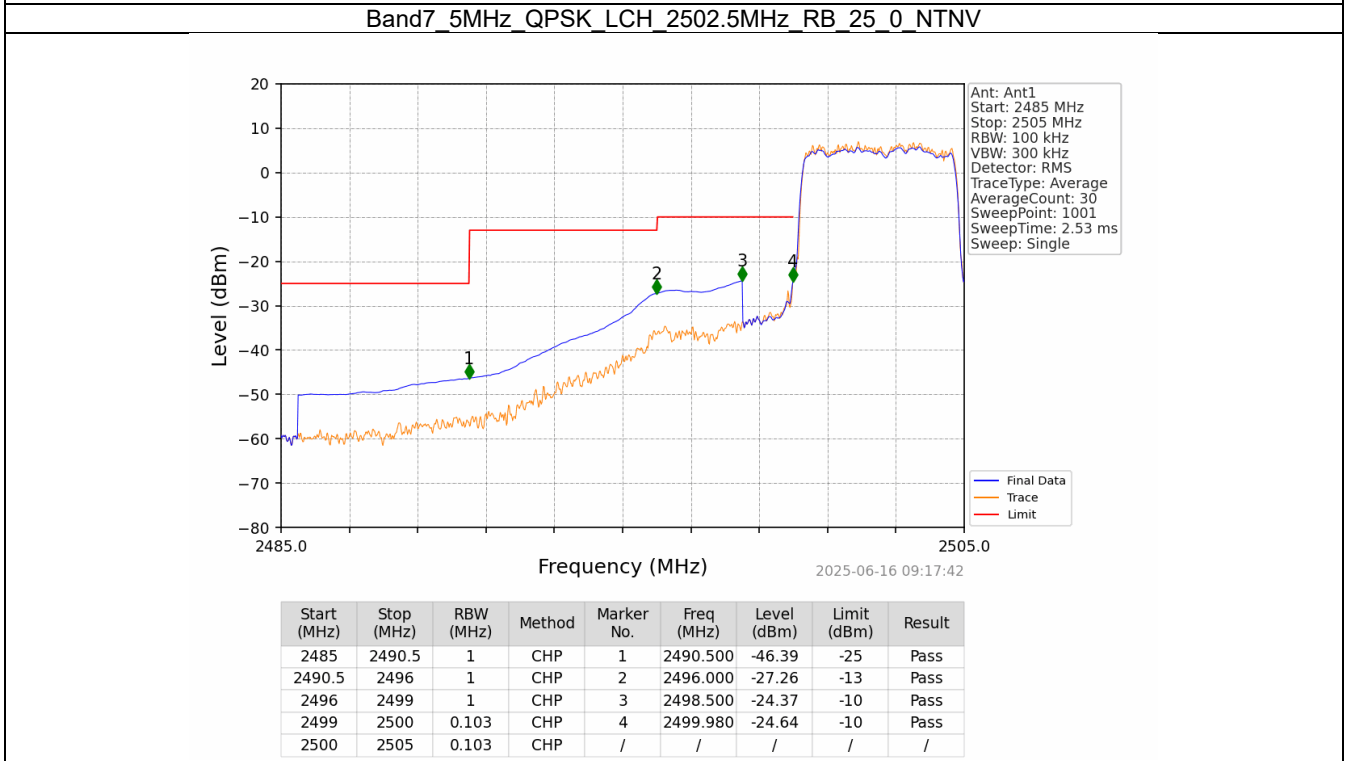
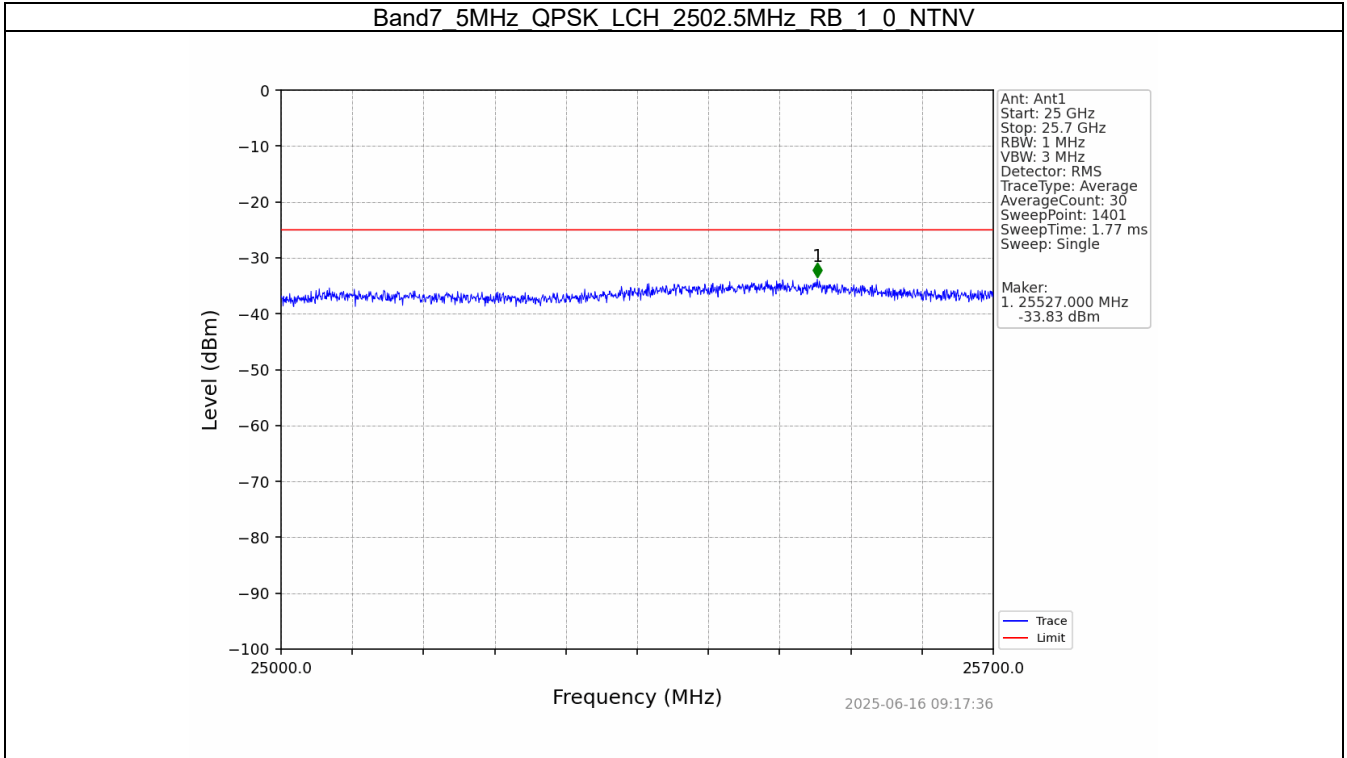
6.2 Test Graph

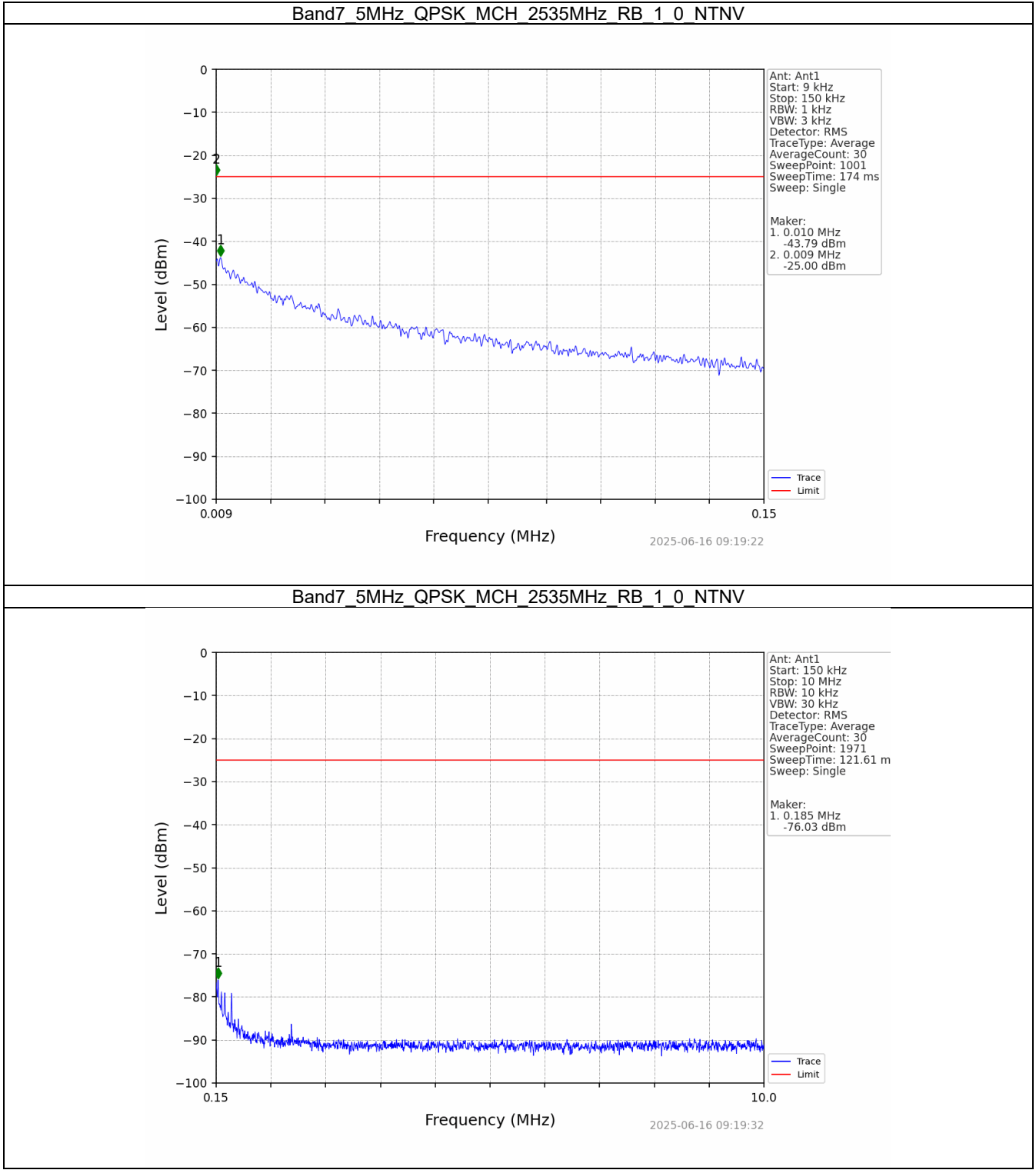
6.2.1 B7_5MHz

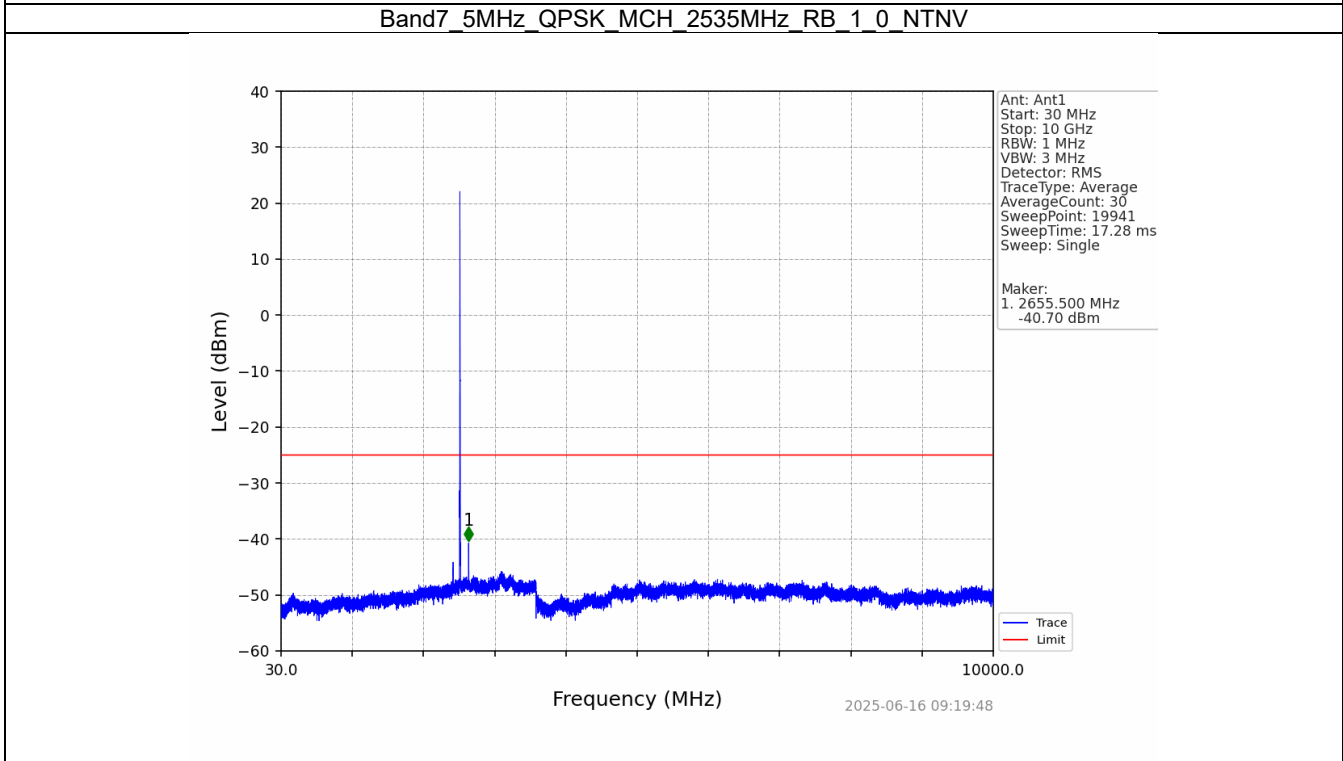
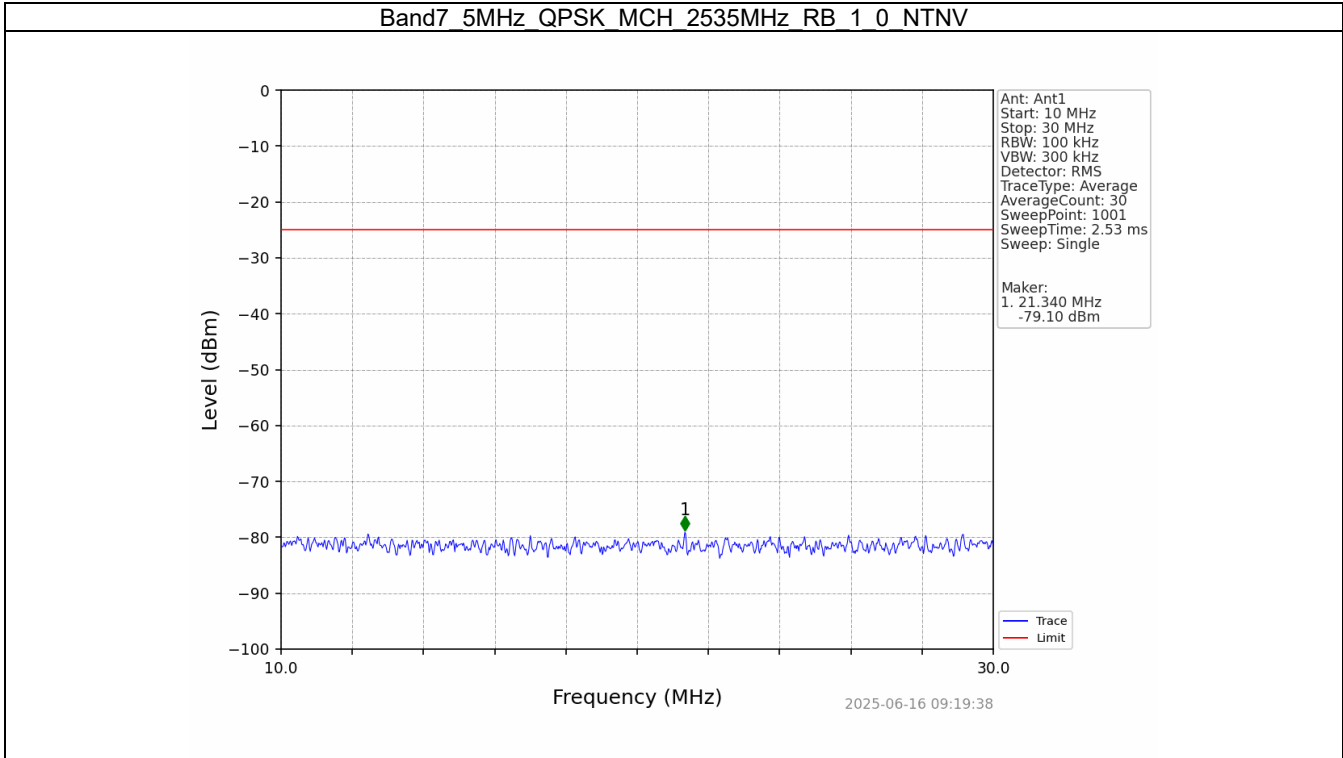


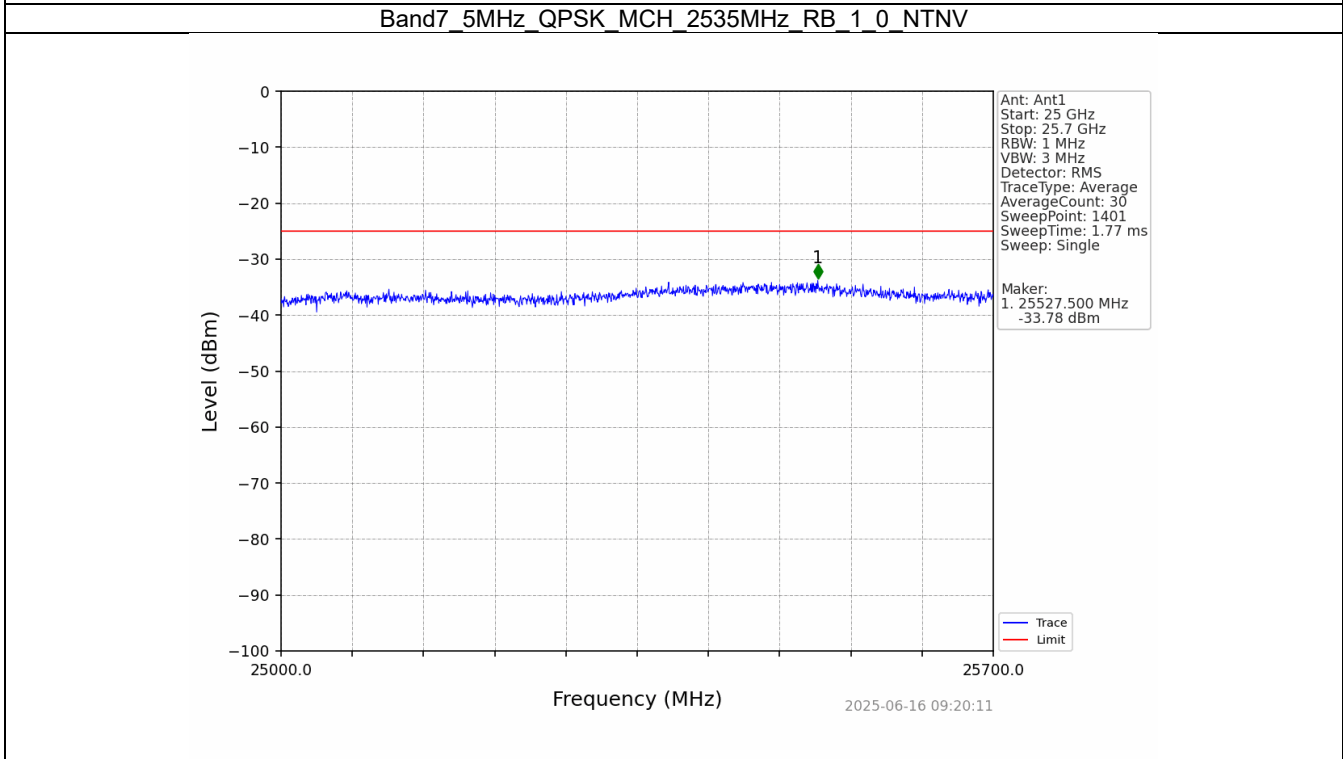
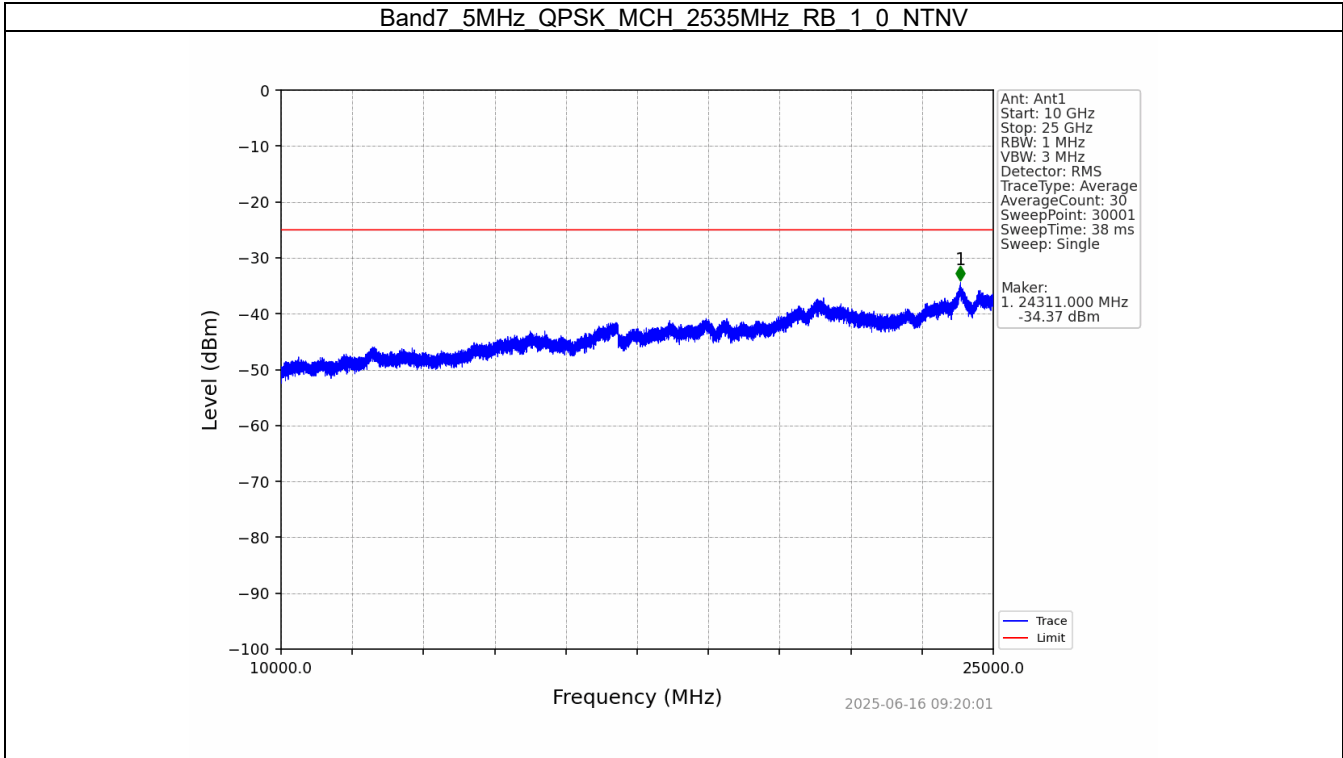


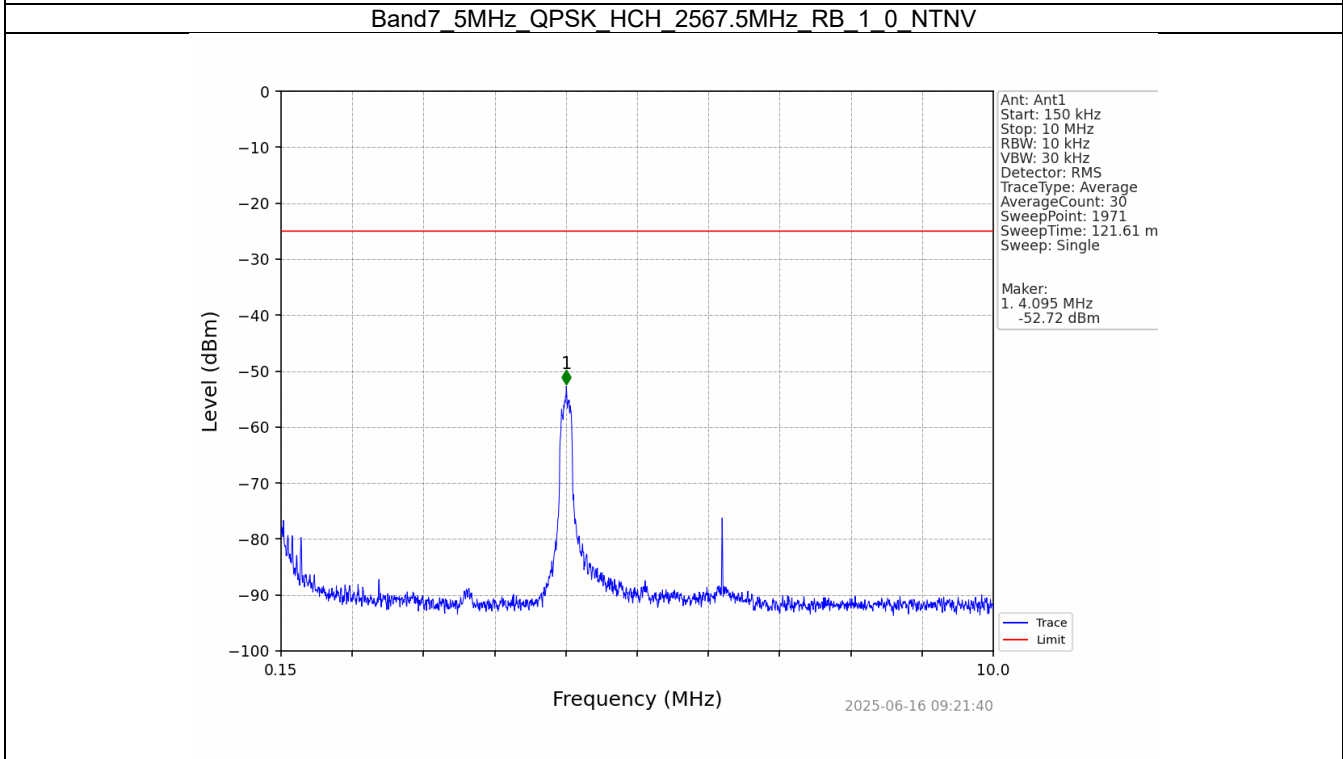
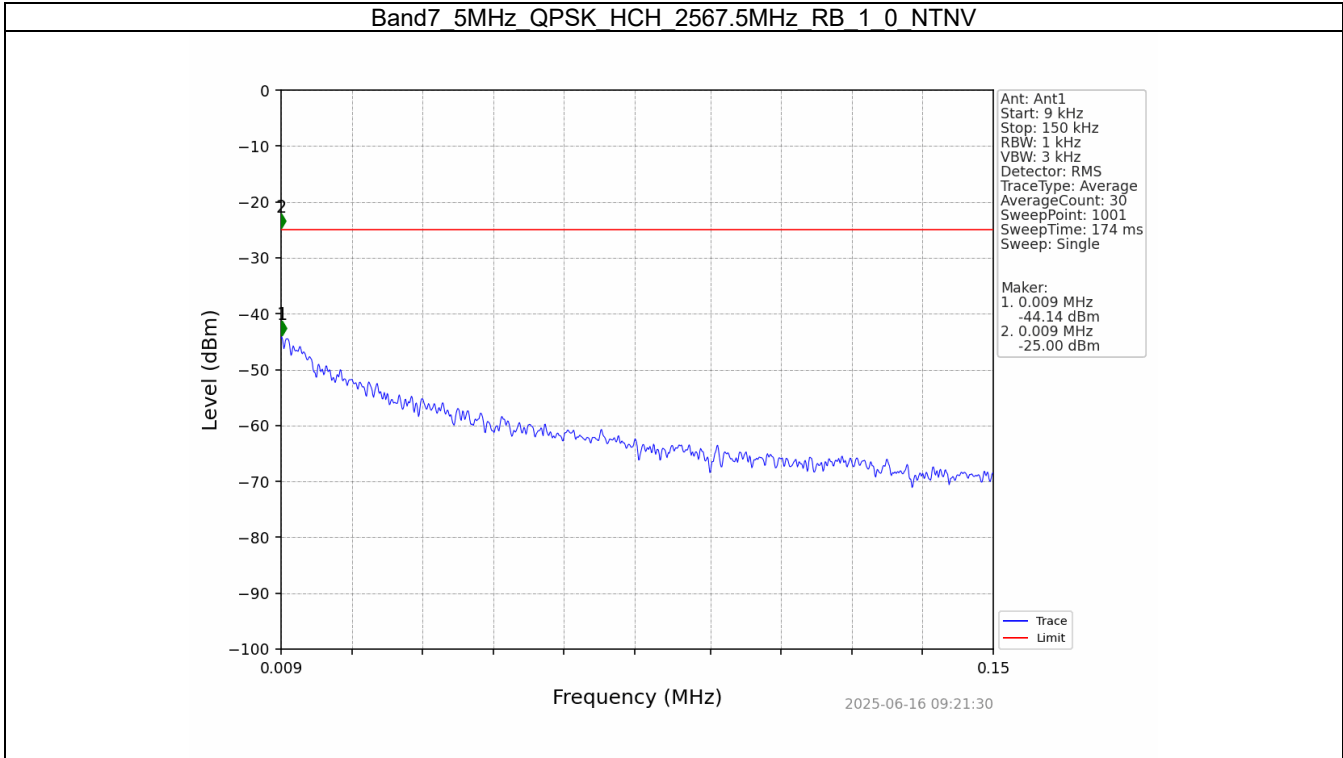


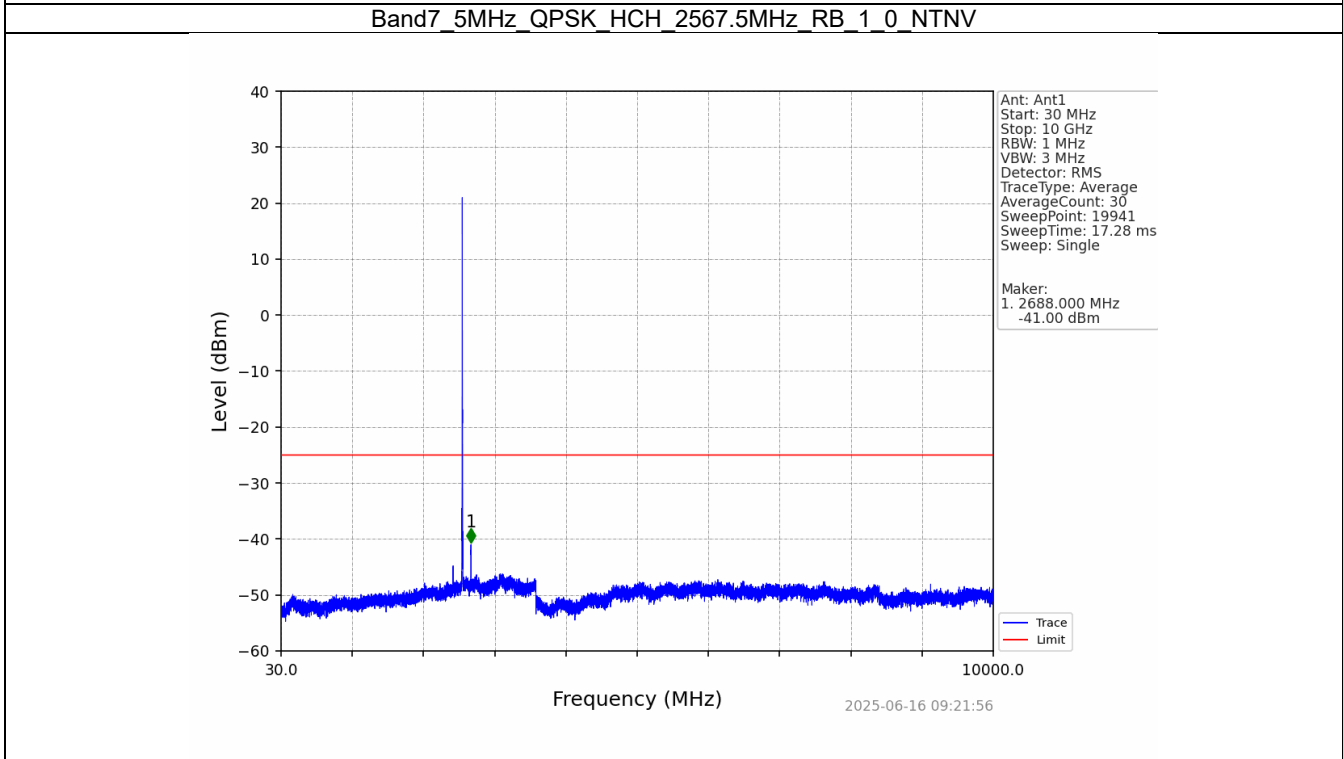
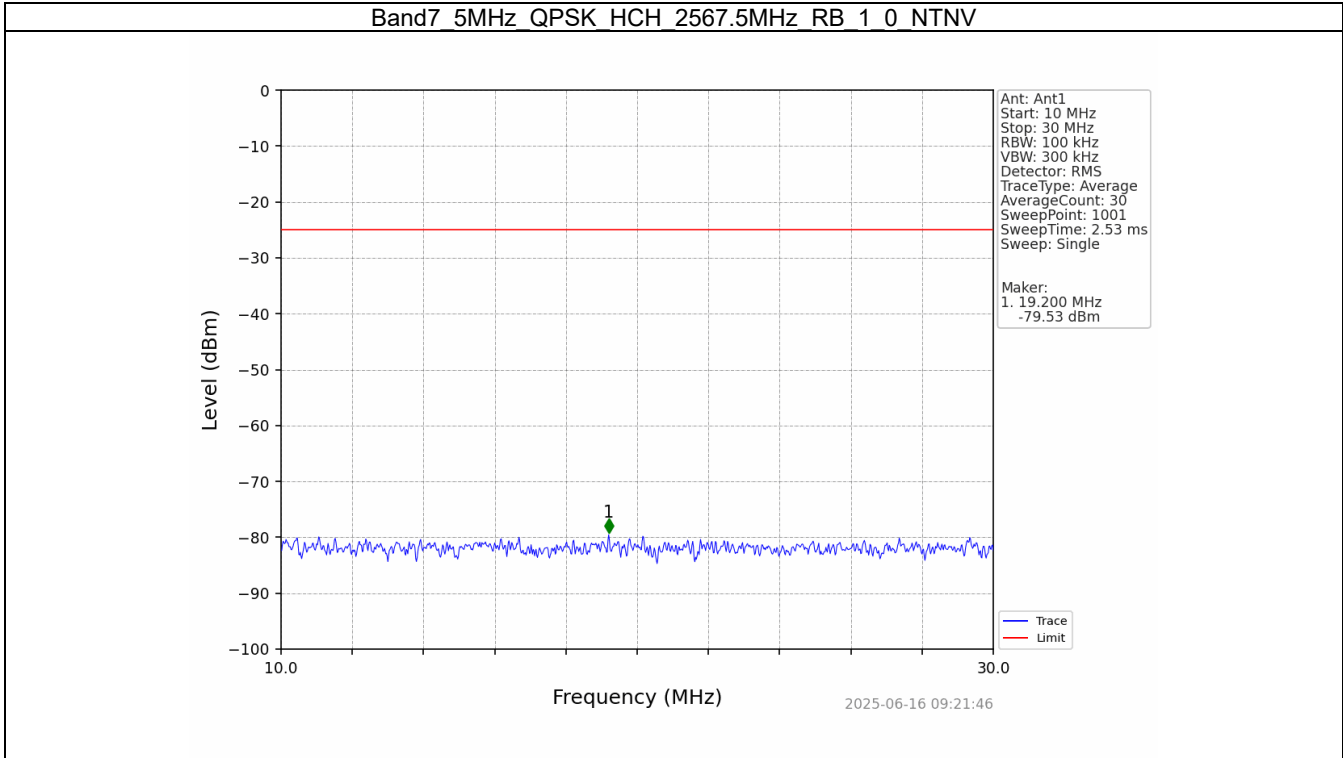


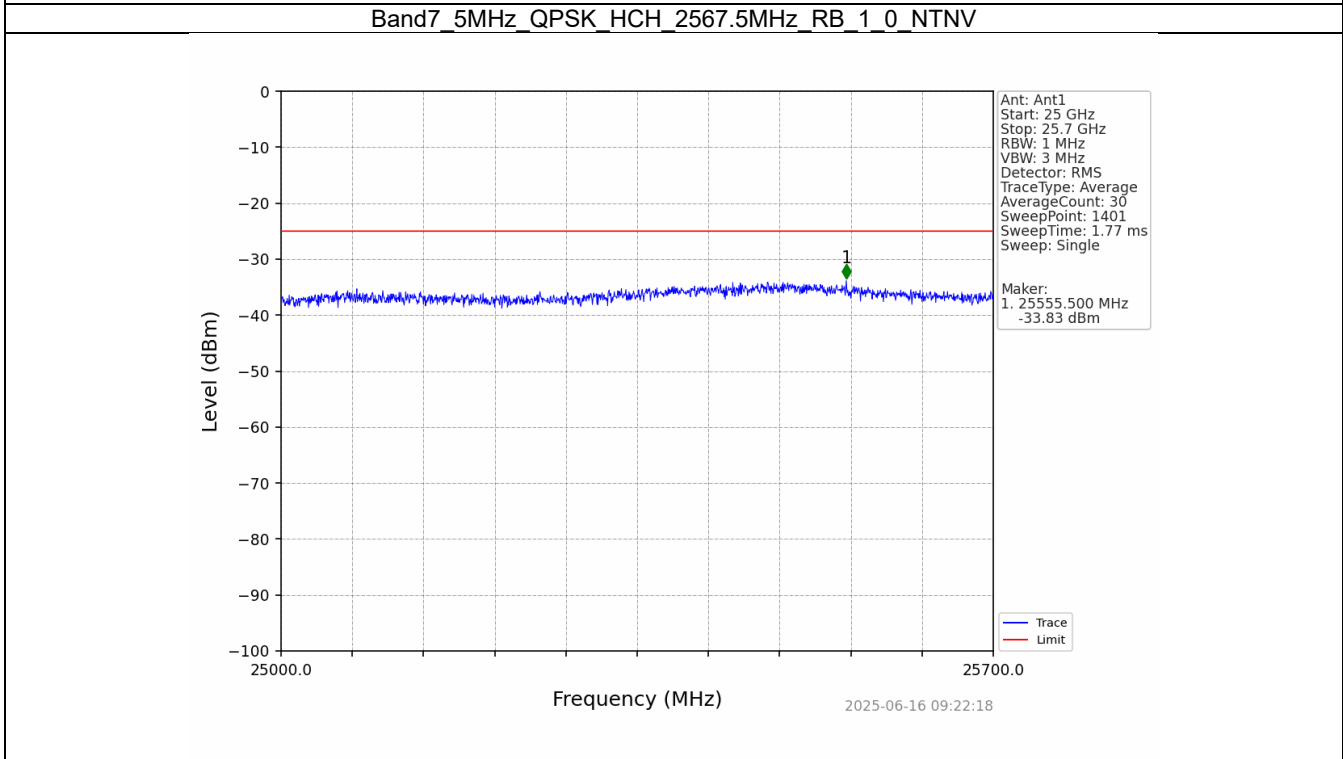
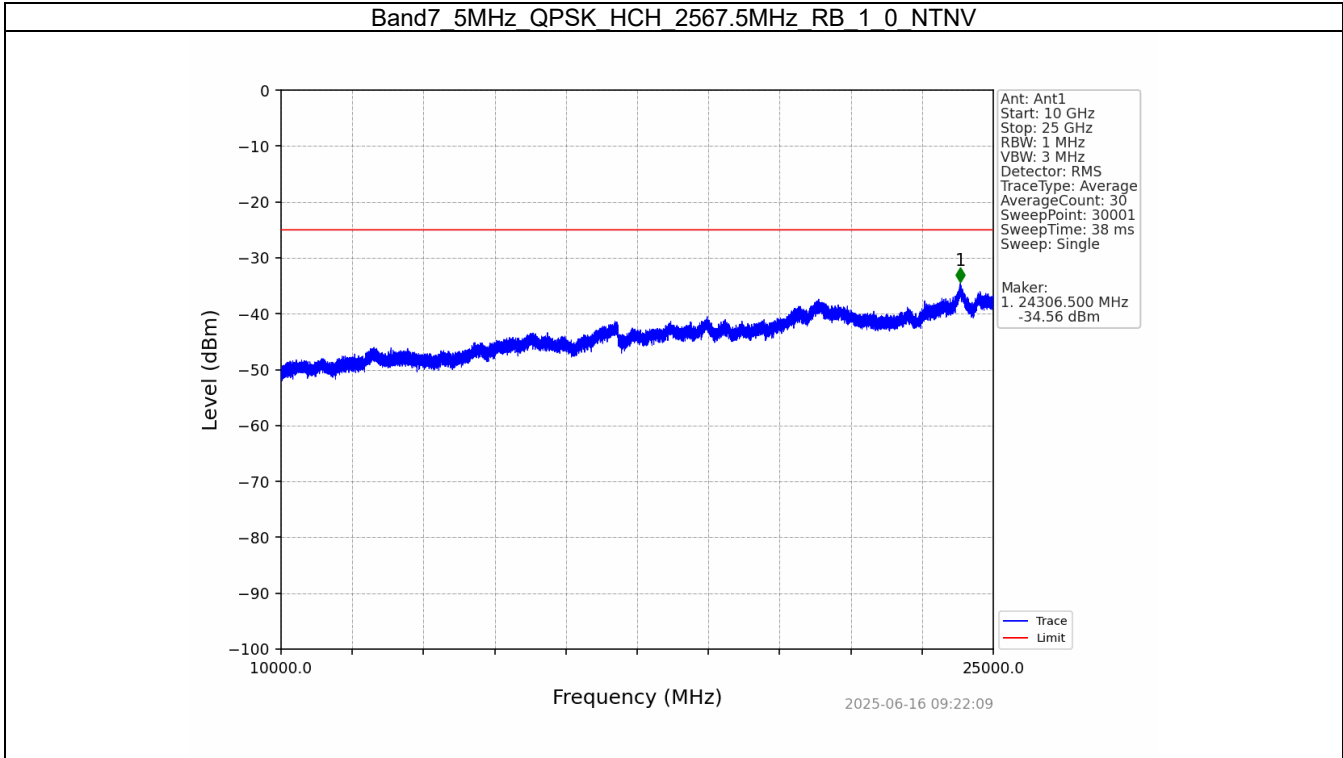




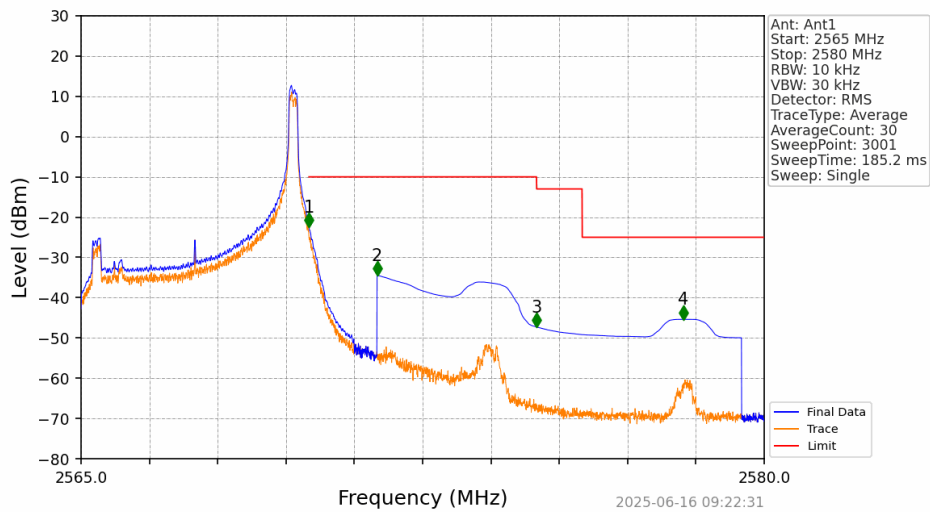








Band7_5MHz_QPSK_HCH_2567.5MHz_RB_1_24_NTNV



Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV

