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Appendix for LTE Band 38

Applicant: Howen Technologies Co., Ltd.

**Address: Room 2001 & 2004, Building 2A, Shenzhen International
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China**

Product Name: Mobile Digital Video Recorder

**Model: Hero-ME32-04, Hero-ME30-04, Hero-ME31-04, Hero-ME31-
08, Hero-ME31-12, Hero-ME31-16, Hero-ME32-06, Hero-ME32-08,
Hero-ME32-16, Hero-ME34-04, Hero-ME34-08**

FCC ID: 2AGBD-HERO-ME32-04

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1. Conducted Output Power

1.1 Test Result

1.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Verdict
		Size	Offset		
QPSK	2572.5	1	0	23.39	Pass
			13	23.63	Pass
			24	23.43	Pass
		12	0	22.50	Pass
			6	22.57	Pass
			13	22.54	Pass
		25	0	22.46	Pass
	2595	1	0	23.21	Pass
			13	23.17	Pass
			24	23.16	Pass
		12	0	22.25	Pass
			6	22.24	Pass
			13	22.10	Pass
		25	0	22.24	Pass
	2617.5	1	0	23.04	Pass
			13	22.96	Pass
			24	23.10	Pass
		12	0	22.21	Pass
			6	22.14	Pass
			13	22.22	Pass
		25	0	22.14	Pass
16QAM	2572.5	1	0	21.78	Pass
			13	22.68	Pass
			24	21.97	Pass
		12	0	21.33	Pass
			6	21.38	Pass
			13	21.33	Pass
		25	0	21.49	Pass
	2595	1	0	21.90	Pass
			13	21.95	Pass
			24	21.94	Pass
		12	0	20.92	Pass
			6	21.02	Pass
			13	21.04	Pass
		25	0	21.18	Pass
	2617.5	1	0	22.33	Pass
			13	22.49	Pass
			24	22.37	Pass
		12	0	21.00	Pass
			6	21.04	Pass
			13	20.91	Pass
		25	0	21.12	Pass

1.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV				
Modulation	Frequency	RB Allocation	Conducted Power	Verdict

	(MHz)	Size	Offset	(dBm)	
QPSK	2575	1	0	23.29	Pass
			25	23.50	Pass
			49	23.42	Pass
		25	0	22.41	Pass
			13	22.53	Pass
			25	22.43	Pass
		50	0	22.39	Pass
	2595	1	0	23.25	Pass
			25	23.30	Pass
			49	23.21	Pass
		25	0	22.41	Pass
			13	22.41	Pass
			25	22.29	Pass
		50	0	22.43	Pass
	2615	1	0	23.27	Pass
			25	23.34	Pass
			49	23.30	Pass
		25	0	22.36	Pass
			13	22.37	Pass
			25	22.18	Pass
		50	0	22.21	Pass
16QAM	2575	1	0	22.85	Pass
			25	23.14	Pass
			49	22.90	Pass
		25	0	21.61	Pass
			13	21.62	Pass
			25	21.56	Pass
		50	0	21.50	Pass
	2595	1	0	22.13	Pass
			25	22.06	Pass
			49	21.99	Pass
		25	0	21.35	Pass
			13	21.36	Pass
			25	21.31	Pass
		50	0	21.39	Pass
	2615	1	0	22.40	Pass
			25	22.40	Pass
			49	22.28	Pass
		25	0	21.40	Pass
			13	21.34	Pass
			25	21.22	Pass
		50	0	21.32	Pass

1.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Verdict
		Size	Offset		
QPSK	2577.5	1	0	23.25	Pass
			38	23.22	Pass
			74	23.35	Pass
		36	0	22.49	Pass
			18	22.56	Pass
			39	22.46	Pass
		75	0	22.55	Pass
	2595	1	0	23.46	Pass

			38	23.25	Pass
			74	23.24	Pass
			0	22.30	Pass
			18	22.29	Pass
			39	22.14	Pass
		75	0	22.30	Pass
	2612.5	1	0	22.88	Pass
			38	23.18	Pass
			74	23.11	Pass
		36	0	22.10	Pass
			18	22.16	Pass
			39	22.21	Pass
		75	0	22.18	Pass
16QAM	2577.5	1	0	22.81	Pass
			38	22.83	Pass
			74	22.37	Pass
		36	0	21.55	Pass
			18	21.61	Pass
			39	21.44	Pass
		75	0	21.44	Pass
	2595	1	0	22.88	Pass
			38	23.20	Pass
			74	22.69	Pass
		36	0	21.65	Pass
			18	21.27	Pass
			39	21.17	Pass
		75	0	21.33	Pass
	2612.5	1	0	21.91	Pass
			38	22.03	Pass
			74	21.54	Pass
		36	0	21.19	Pass
			18	21.15	Pass
			39	21.13	Pass
		75	0	21.26	Pass

1.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Verdict
		Size	Offset		
QPSK	2580	1	0	23.08	Pass
			50	23.25	Pass
			99	23.07	Pass
		50	0	22.50	Pass
			25	22.51	Pass
			50	22.45	Pass
		100	0	22.43	Pass
	2595	1	0	23.39	Pass
			50	23.58	Pass
			99	23.15	Pass
		50	0	22.40	Pass
			25	22.30	Pass
			50	22.23	Pass
		100	0	22.35	Pass
	2610	1	0	23.38	Pass
			50	23.36	Pass
			99	23.12	Pass

16QAM		50	0	22.21	Pass
			25	22.18	Pass
			50	22.17	Pass
		100	0	22.10	Pass
	2580	1	0	21.77	Pass
			50	22.19	Pass
			99	21.91	Pass
		50	0	21.53	Pass
			25	21.53	Pass
			50	21.50	Pass
		100	0	21.39	Pass
	2595	1	0	22.68	Pass
			50	22.87	Pass
			99	22.79	Pass
		50	0	21.36	Pass
			25	21.44	Pass
			50	21.37	Pass
		100	0	21.28	Pass
	2610	1	0	22.71	Pass
			50	22.86	Pass
			99	22.50	Pass
		50	0	21.20	Pass
			25	21.22	Pass
			50	21.20	Pass
		100	0	21.15	Pass

2. Frequency Stability

2.1 Test Result

2.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2572.5	25	0	24	9.0	2.704	0.0011	-2.5 to 2.5	Pass
					12.0	-4.377	-0.0017	-2.5 to 2.5	Pass
					36.0	-1.245	-0.0005	-2.5 to 2.5	Pass
				-20	12.0	-1.402	-0.0005	-2.5 to 2.5	Pass
					12.0	-2.103	-0.0008	-2.5 to 2.5	Pass
					12.0	-0.472	-0.0002	-2.5 to 2.5	Pass
				10	12.0	4.363	0.0017	-2.5 to 2.5	Pass
					12.0	-1.416	-0.0006	-2.5 to 2.5	Pass
					12.0	3.405	0.0013	-2.5 to 2.5	Pass
				50	12.0	1.073	0.0004	-2.5 to 2.5	Pass
					12.0	1.202	0.0005	-2.5 to 2.5	Pass
					12.0	-0.257	-0.0001	-2.5 to 2.5	Pass
	2595	25	0	24	9.0	1.373	0.0005	-2.5 to 2.5	Pass
					12.0	-1.459	-0.0006	-2.5 to 2.5	Pass
					36.0	0.157	0.0001	-2.5 to 2.5	Pass
				-20	12.0	-0.329	-0.0001	-2.5 to 2.5	Pass
					12.0	-2.303	-0.0009	-2.5 to 2.5	Pass
					12.0	4.892	0.0019	-2.5 to 2.5	Pass
				10	12.0	-1.230	-0.0005	-2.5 to 2.5	Pass
					12.0	-4.921	-0.0019	-2.5 to 2.5	Pass
					12.0	-3.176	-0.0012	-2.5 to 2.5	Pass

	2617.5	25	0	50	12.0	-3.390	-0.0013	-2.5 to 2.5	Pass
				60	12.0	4.864	0.0019	-2.5 to 2.5	Pass
				70	12.0	-0.629	-0.0002	-2.5 to 2.5	Pass
				24	9.0	3.462	0.0013	-2.5 to 2.5	Pass
					12.0	-3.977	-0.0015	-2.5 to 2.5	Pass
					36.0	-1.130	-0.0004	-2.5 to 2.5	Pass
				-20	12.0	-2.217	-0.0008	-2.5 to 2.5	Pass
				-10	12.0	7.038	0.0027	-2.5 to 2.5	Pass
				0	12.0	7.081	0.0027	-2.5 to 2.5	Pass
				10	12.0	-1.516	-0.0006	-2.5 to 2.5	Pass
				30	12.0	-3.633	-0.0014	-2.5 to 2.5	Pass
				40	12.0	7.410	0.0028	-2.5 to 2.5	Pass
				50	12.0	-2.632	-0.0010	-2.5 to 2.5	Pass
				60	12.0	-2.675	-0.0010	-2.5 to 2.5	Pass
				70	12.0	-2.346	-0.0009	-2.5 to 2.5	Pass
16QAM	2572.5	25	0	24	9.0	-2.804	-0.0011	-2.5 to 2.5	Pass
					12.0	-0.558	-0.0002	-2.5 to 2.5	Pass
					36.0	3.591	0.0014	-2.5 to 2.5	Pass
				-20	12.0	-0.644	-0.0003	-2.5 to 2.5	Pass
				-10	12.0	0.501	0.0002	-2.5 to 2.5	Pass
				0	12.0	-0.458	-0.0002	-2.5 to 2.5	Pass
				10	12.0	1.330	0.0005	-2.5 to 2.5	Pass
				30	12.0	2.046	0.0008	-2.5 to 2.5	Pass
				40	12.0	2.761	0.0011	-2.5 to 2.5	Pass
				50	12.0	3.047	0.0012	-2.5 to 2.5	Pass
				60	12.0	-2.546	-0.0010	-2.5 to 2.5	Pass
				70	12.0	0.529	0.0002	-2.5 to 2.5	Pass
	2595	25	0	24	9.0	-3.519	-0.0014	-2.5 to 2.5	Pass
					12.0	2.346	0.0009	-2.5 to 2.5	Pass
					36.0	3.018	0.0012	-2.5 to 2.5	Pass
				-20	12.0	-2.604	-0.0010	-2.5 to 2.5	Pass
				-10	12.0	-2.933	-0.0011	-2.5 to 2.5	Pass
				0	12.0	6.008	0.0023	-2.5 to 2.5	Pass
				10	12.0	-3.476	-0.0013	-2.5 to 2.5	Pass
				30	12.0	-1.073	-0.0004	-2.5 to 2.5	Pass
				40	12.0	1.874	0.0007	-2.5 to 2.5	Pass
				50	12.0	-5.994	-0.0023	-2.5 to 2.5	Pass
				60	12.0	-3.576	-0.0014	-2.5 to 2.5	Pass
				70	12.0	5.035	0.0019	-2.5 to 2.5	Pass
	2617.5	25	0	24	9.0	-2.375	-0.0009	-2.5 to 2.5	Pass
					12.0	4.764	0.0018	-2.5 to 2.5	Pass
					36.0	4.463	0.0017	-2.5 to 2.5	Pass
				-20	12.0	-1.488	-0.0006	-2.5 to 2.5	Pass
				-10	12.0	-2.360	-0.0009	-2.5 to 2.5	Pass
				0	12.0	-1.674	-0.0006	-2.5 to 2.5	Pass
				10	12.0	5.522	0.0021	-2.5 to 2.5	Pass
				30	12.0	6.838	0.0026	-2.5 to 2.5	Pass
				40	12.0	6.166	0.0024	-2.5 to 2.5	Pass
				50	12.0	-0.272	-0.0001	-2.5 to 2.5	Pass
				60	12.0	7.839	0.0030	-2.5 to 2.5	Pass
				70	12.0	5.322	0.0020	-2.5 to 2.5	Pass

2.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	

QPSK	2575	50	0	24	9.0	1.001	0.0004	-2.5 to 2.5	Pass
					12.0	-0.787	-0.0003	-2.5 to 2.5	Pass
					36.0	7.510	0.0029	-2.5 to 2.5	Pass
				-20	12.0	0.987	0.0004	-2.5 to 2.5	Pass
				-10	12.0	5.236	0.0020	-2.5 to 2.5	Pass
				0	12.0	0.186	0.0001	-2.5 to 2.5	Pass
				10	12.0	5.150	0.0020	-2.5 to 2.5	Pass
				30	12.0	8.826	0.0034	-2.5 to 2.5	Pass
				40	12.0	1.545	0.0006	-2.5 to 2.5	Pass
				50	12.0	-1.044	-0.0004	-2.5 to 2.5	Pass
				60	12.0	8.698	0.0034	-2.5 to 2.5	Pass
				70	12.0	0.973	0.0004	-2.5 to 2.5	Pass
	2595	50	0	24	9.0	1.702	0.0007	-2.5 to 2.5	Pass
					12.0	4.349	0.0017	-2.5 to 2.5	Pass
					36.0	5.665	0.0022	-2.5 to 2.5	Pass
				-20	12.0	-1.545	-0.0006	-2.5 to 2.5	Pass
				-10	12.0	3.676	0.0014	-2.5 to 2.5	Pass
				0	12.0	-3.119	-0.0012	-2.5 to 2.5	Pass
				10	12.0	3.905	0.0015	-2.5 to 2.5	Pass
				30	12.0	-0.701	-0.0003	-2.5 to 2.5	Pass
				40	12.0	4.206	0.0016	-2.5 to 2.5	Pass
				50	12.0	4.506	0.0017	-2.5 to 2.5	Pass
				60	12.0	2.890	0.0011	-2.5 to 2.5	Pass
				70	12.0	-2.646	-0.0010	-2.5 to 2.5	Pass
	2615	50	0	24	9.0	3.390	0.0013	-2.5 to 2.5	Pass
					12.0	2.961	0.0011	-2.5 to 2.5	Pass
					36.0	4.535	0.0017	-2.5 to 2.5	Pass
				-20	12.0	6.065	0.0023	-2.5 to 2.5	Pass
				-10	12.0	3.376	0.0013	-2.5 to 2.5	Pass
				0	12.0	4.120	0.0016	-2.5 to 2.5	Pass
				10	12.0	6.337	0.0024	-2.5 to 2.5	Pass
				30	12.0	4.535	0.0017	-2.5 to 2.5	Pass
				40	12.0	7.739	0.0030	-2.5 to 2.5	Pass
				50	12.0	6.251	0.0024	-2.5 to 2.5	Pass
16QAM	2575	50	0	24	9.0	1.116	0.0004	-2.5 to 2.5	Pass
					12.0	-1.416	-0.0005	-2.5 to 2.5	Pass
					36.0	-0.072	0.0000	-2.5 to 2.5	Pass
				-20	12.0	8.726	0.0034	-2.5 to 2.5	Pass
				-10	12.0	0.658	0.0003	-2.5 to 2.5	Pass
				0	12.0	-0.458	-0.0002	-2.5 to 2.5	Pass
				10	12.0	1.216	0.0005	-2.5 to 2.5	Pass
				30	12.0	-0.687	-0.0003	-2.5 to 2.5	Pass
				40	12.0	1.960	0.0008	-2.5 to 2.5	Pass
				50	12.0	-1.073	-0.0004	-2.5 to 2.5	Pass
	2595	50	0	24	9.0	3.433	0.0013	-2.5 to 2.5	Pass
					12.0	3.777	0.0015	-2.5 to 2.5	Pass
					36.0	-3.805	-0.0015	-2.5 to 2.5	Pass
				-20	12.0	1.116	0.0004	-2.5 to 2.5	Pass
				-10	12.0	9.871	0.0038	-2.5 to 2.5	Pass
				0	12.0	-0.086	0.0000	-2.5 to 2.5	Pass
				10	12.0	1.044	0.0004	-2.5 to 2.5	Pass
				30	12.0	6.394	0.0025	-2.5 to 2.5	Pass
				40	12.0	3.791	0.0015	-2.5 to 2.5	Pass
				50	12.0	5.636	0.0022	-2.5 to 2.5	Pass
				60	12.0	-1.645	-0.0006	-2.5 to 2.5	Pass

	2615	50	0	70	12.0	5.865	0.0023	-2.5 to 2.5	Pass
				24	9.0	4.177	0.0016	-2.5 to 2.5	Pass
					12.0	3.905	0.0015	-2.5 to 2.5	Pass
					36.0	7.210	0.0028	-2.5 to 2.5	Pass
				-20	12.0	7.167	0.0027	-2.5 to 2.5	Pass
				-10	12.0	7.782	0.0030	-2.5 to 2.5	Pass
				0	12.0	3.748	0.0014	-2.5 to 2.5	Pass
				10	12.0	5.279	0.0020	-2.5 to 2.5	Pass
				30	12.0	5.879	0.0022	-2.5 to 2.5	Pass
				40	12.0	2.046	0.0008	-2.5 to 2.5	Pass
				50	12.0	5.307	0.0020	-2.5 to 2.5	Pass
				60	12.0	6.666	0.0025	-2.5 to 2.5	Pass
				70	12.0	1.788	0.0007	-2.5 to 2.5	Pass

2.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2577.5	75	0	24	9.0	5.507	0.0021	-2.5 to 2.5	Pass
					12.0	3.333	0.0013	-2.5 to 2.5	Pass
					36.0	2.131	0.0008	-2.5 to 2.5	Pass
				-20	12.0	2.117	0.0008	-2.5 to 2.5	Pass
				-10	12.0	9.212	0.0036	-2.5 to 2.5	Pass
				0	12.0	9.856	0.0038	-2.5 to 2.5	Pass
				10	12.0	8.469	0.0033	-2.5 to 2.5	Pass
				30	12.0	8.597	0.0033	-2.5 to 2.5	Pass
				40	12.0	16.680	0.0065	-2.5 to 2.5	Pass
				50	12.0	9.956	0.0039	-2.5 to 2.5	Pass
				60	12.0	9.456	0.0037	-2.5 to 2.5	Pass
				70	12.0	1.245	0.0005	-2.5 to 2.5	Pass
	2595	75	0	24	9.0	-1.302	-0.0005	-2.5 to 2.5	Pass
					12.0	-2.074	-0.0008	-2.5 to 2.5	Pass
					36.0	-3.977	-0.0015	-2.5 to 2.5	Pass
				-20	12.0	0.014	0.0000	-2.5 to 2.5	Pass
				-10	12.0	9.127	0.0035	-2.5 to 2.5	Pass
				0	12.0	-1.574	-0.0006	-2.5 to 2.5	Pass
				10	12.0	8.955	0.0035	-2.5 to 2.5	Pass
				30	12.0	1.016	0.0004	-2.5 to 2.5	Pass
				40	12.0	-0.644	-0.0002	-2.5 to 2.5	Pass
				50	12.0	0.172	0.0001	-2.5 to 2.5	Pass
				60	12.0	10.157	0.0039	-2.5 to 2.5	Pass
				70	12.0	1.044	0.0004	-2.5 to 2.5	Pass
	2612.5	75	0	24	9.0	9.685	0.0037	-2.5 to 2.5	Pass
					12.0	11.201	0.0043	-2.5 to 2.5	Pass
					36.0	10.300	0.0039	-2.5 to 2.5	Pass
				-20	12.0	8.926	0.0034	-2.5 to 2.5	Pass
				-10	12.0	0.887	0.0003	-2.5 to 2.5	Pass
				0	12.0	-0.973	-0.0004	-2.5 to 2.5	Pass
				10	12.0	8.583	0.0033	-2.5 to 2.5	Pass
				30	12.0	9.227	0.0035	-2.5 to 2.5	Pass
				40	12.0	8.883	0.0034	-2.5 to 2.5	Pass
				50	12.0	1.287	0.0005	-2.5 to 2.5	Pass
				60	12.0	9.227	0.0035	-2.5 to 2.5	Pass
				70	12.0	2.704	0.0010	-2.5 to 2.5	Pass
16QAM	2577.5	75	0	24	9.0	10.171	0.0039	-2.5 to 2.5	Pass
					12.0	3.862	0.0015	-2.5 to 2.5	Pass

					36.0	14.462	0.0056	-2.5 to 2.5	Pass
				-20	12.0	3.390	0.0013	-2.5 to 2.5	Pass
				-10	12.0	1.831	0.0007	-2.5 to 2.5	Pass
				0	12.0	3.405	0.0013	-2.5 to 2.5	Pass
				10	12.0	11.072	0.0043	-2.5 to 2.5	Pass
				30	12.0	4.678	0.0018	-2.5 to 2.5	Pass
				40	12.0	3.090	0.0012	-2.5 to 2.5	Pass
				50	12.0	3.834	0.0015	-2.5 to 2.5	Pass
				60	12.0	3.834	0.0015	-2.5 to 2.5	Pass
				70	12.0	12.188	0.0047	-2.5 to 2.5	Pass
	2595	75	0	24	9.0	1.860	0.0007	-2.5 to 2.5	Pass
					12.0	-0.401	-0.0002	-2.5 to 2.5	Pass
					36.0	0.300	0.0001	-2.5 to 2.5	Pass
				-20	12.0	10.500	0.0040	-2.5 to 2.5	Pass
				-10	12.0	7.997	0.0031	-2.5 to 2.5	Pass
				0	12.0	-0.057	0.0000	-2.5 to 2.5	Pass
				10	12.0	0.715	0.0003	-2.5 to 2.5	Pass
				30	12.0	0.429	0.0002	-2.5 to 2.5	Pass
				40	12.0	11.859	0.0046	-2.5 to 2.5	Pass
				50	12.0	0.172	0.0001	-2.5 to 2.5	Pass
				60	12.0	13.103	0.0050	-2.5 to 2.5	Pass
				70	12.0	9.899	0.0038	-2.5 to 2.5	Pass
	2612.5	75	0	24	9.0	-1.502	-0.0006	-2.5 to 2.5	Pass
					12.0	0.143	0.0001	-2.5 to 2.5	Pass
					36.0	1.631	0.0006	-2.5 to 2.5	Pass
				-20	12.0	-2.604	-0.0010	-2.5 to 2.5	Pass
				-10	12.0	9.885	0.0038	-2.5 to 2.5	Pass
				0	12.0	10.514	0.0040	-2.5 to 2.5	Pass
				10	12.0	-0.944	-0.0004	-2.5 to 2.5	Pass
				30	12.0	1.817	0.0007	-2.5 to 2.5	Pass
				40	12.0	9.227	0.0035	-2.5 to 2.5	Pass
				50	12.0	8.941	0.0034	-2.5 to 2.5	Pass
				60	12.0	1.745	0.0007	-2.5 to 2.5	Pass
				70	12.0	14.005	0.0054	-2.5 to 2.5	Pass

2.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2580	100	0	24	9.0	-2.203	-0.0009	-2.5 to 2.5	Pass
					12.0	-3.991	-0.0015	-2.5 to 2.5	Pass
					36.0	-0.930	-0.0004	-2.5 to 2.5	Pass
				-20	12.0	2.646	0.0010	-2.5 to 2.5	Pass
				-10	12.0	0.029	0.0000	-2.5 to 2.5	Pass
				0	12.0	-2.804	-0.0011	-2.5 to 2.5	Pass
				10	12.0	-0.830	-0.0003	-2.5 to 2.5	Pass
				30	12.0	-3.076	-0.0012	-2.5 to 2.5	Pass
				40	12.0	-2.332	-0.0009	-2.5 to 2.5	Pass
				50	12.0	0.644	0.0002	-2.5 to 2.5	Pass
				60	12.0	3.619	0.0014	-2.5 to 2.5	Pass
				70	12.0	3.562	0.0014	-2.5 to 2.5	Pass
	2595	100	0	24	9.0	-1.817	-0.0007	-2.5 to 2.5	Pass
					12.0	6.523	0.0025	-2.5 to 2.5	Pass
					36.0	6.723	0.0026	-2.5 to 2.5	Pass
				-20	12.0	-0.458	-0.0002	-2.5 to 2.5	Pass
				-10	12.0	-2.947	-0.0011	-2.5 to 2.5	Pass

				0	12.0	-3.276	-0.0013	-2.5 to 2.5	Pass
				10	12.0	8.168	0.0031	-2.5 to 2.5	Pass
				30	12.0	-2.661	-0.0010	-2.5 to 2.5	Pass
				40	12.0	-1.159	-0.0004	-2.5 to 2.5	Pass
				50	12.0	9.184	0.0035	-2.5 to 2.5	Pass
				60	12.0	-0.901	-0.0003	-2.5 to 2.5	Pass
				70	12.0	4.878	0.0019	-2.5 to 2.5	Pass
	2610	100	0	24	9.0	6.795	0.0026	-2.5 to 2.5	Pass
					12.0	5.407	0.0021	-2.5 to 2.5	Pass
					36.0	6.065	0.0023	-2.5 to 2.5	Pass
				-20	12.0	5.550	0.0021	-2.5 to 2.5	Pass
				-10	12.0	7.696	0.0029	-2.5 to 2.5	Pass
				0	12.0	7.939	0.0030	-2.5 to 2.5	Pass
				10	12.0	9.227	0.0035	-2.5 to 2.5	Pass
				30	12.0	7.439	0.0029	-2.5 to 2.5	Pass
				40	12.0	-2.131	-0.0008	-2.5 to 2.5	Pass
				50	12.0	-1.373	-0.0005	-2.5 to 2.5	Pass
				60	12.0	-1.702	-0.0007	-2.5 to 2.5	Pass
				70	12.0	5.865	0.0022	-2.5 to 2.5	Pass
16QAM	2580	100	0	24	9.0	-1.760	-0.0007	-2.5 to 2.5	Pass
					12.0	4.120	0.0016	-2.5 to 2.5	Pass
					36.0	-0.386	-0.0001	-2.5 to 2.5	Pass
				-20	12.0	-2.561	-0.0010	-2.5 to 2.5	Pass
				-10	12.0	4.349	0.0017	-2.5 to 2.5	Pass
				0	12.0	4.950	0.0019	-2.5 to 2.5	Pass
				10	12.0	-3.519	-0.0014	-2.5 to 2.5	Pass
				30	12.0	4.435	0.0017	-2.5 to 2.5	Pass
				40	12.0	-3.576	-0.0014	-2.5 to 2.5	Pass
				50	12.0	-4.034	-0.0016	-2.5 to 2.5	Pass
	2595	100	0	60	12.0	-1.488	-0.0006	-2.5 to 2.5	Pass
				70	12.0	-3.834	-0.0015	-2.5 to 2.5	Pass
				24	9.0	-1.831	-0.0007	-2.5 to 2.5	Pass
					12.0	7.224	0.0028	-2.5 to 2.5	Pass
					36.0	-2.775	-0.0011	-2.5 to 2.5	Pass
				-20	12.0	-1.817	-0.0007	-2.5 to 2.5	Pass
				-10	12.0	9.899	0.0038	-2.5 to 2.5	Pass
				0	12.0	-2.875	-0.0011	-2.5 to 2.5	Pass
				10	12.0	-2.775	-0.0011	-2.5 to 2.5	Pass
				30	12.0	8.698	0.0034	-2.5 to 2.5	Pass
	2610	100	0	40	12.0	-1.101	-0.0004	-2.5 to 2.5	Pass
				50	12.0	-2.174	-0.0008	-2.5 to 2.5	Pass
				60	12.0	8.526	0.0033	-2.5 to 2.5	Pass
				70	12.0	-2.203	-0.0008	-2.5 to 2.5	Pass
				24	9.0	7.081	0.0027	-2.5 to 2.5	Pass
					12.0	-2.103	-0.0008	-2.5 to 2.5	Pass
					36.0	8.712	0.0033	-2.5 to 2.5	Pass
				-20	12.0	0.472	0.0002	-2.5 to 2.5	Pass
				-10	12.0	5.250	0.0020	-2.5 to 2.5	Pass
				0	12.0	-3.819	-0.0015	-2.5 to 2.5	Pass
				10	12.0	10.786	0.0041	-2.5 to 2.5	Pass
				30	12.0	-1.416	-0.0005	-2.5 to 2.5	Pass
				40	12.0	7.668	0.0029	-2.5 to 2.5	Pass
				50	12.0	8.225	0.0032	-2.5 to 2.5	Pass
				60	12.0	6.552	0.0025	-2.5 to 2.5	Pass
				70	12.0	-3.176	-0.0012	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band38_OBW

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	4.546	/	Pass
		2595	25	0	4.550	/	Pass
		2617.5	25	0	4.544	/	Pass
	16QAM	2572.5	25	0	4.561	/	Pass
		2595	25	0	4.538	/	Pass
		2617.5	25	0	4.574	/	Pass
10	QPSK	2575	50	0	9.021	/	Pass
		2595	50	0	9.050	/	Pass
		2615	50	0	9.068	/	Pass
	16QAM	2575	50	0	9.034	/	Pass
		2595	50	0	9.065	/	Pass
		2615	50	0	9.046	/	Pass
15	QPSK	2577.5	75	0	13.599	/	Pass
		2595	75	0	13.550	/	Pass
		2612.5	75	0	13.572	/	Pass
	16QAM	2577.5	75	0	13.631	/	Pass
		2595	75	0	13.633	/	Pass
		2612.5	75	0	13.565	/	Pass
20	QPSK	2580	100	0	18.063	/	Pass
		2595	100	0	18.024	/	Pass
		2610	100	0	18.083	/	Pass
	16QAM	2580	100	0	18.073	/	Pass
		2595	100	0	18.076	/	Pass
		2610	100	0	18.036	/	Pass

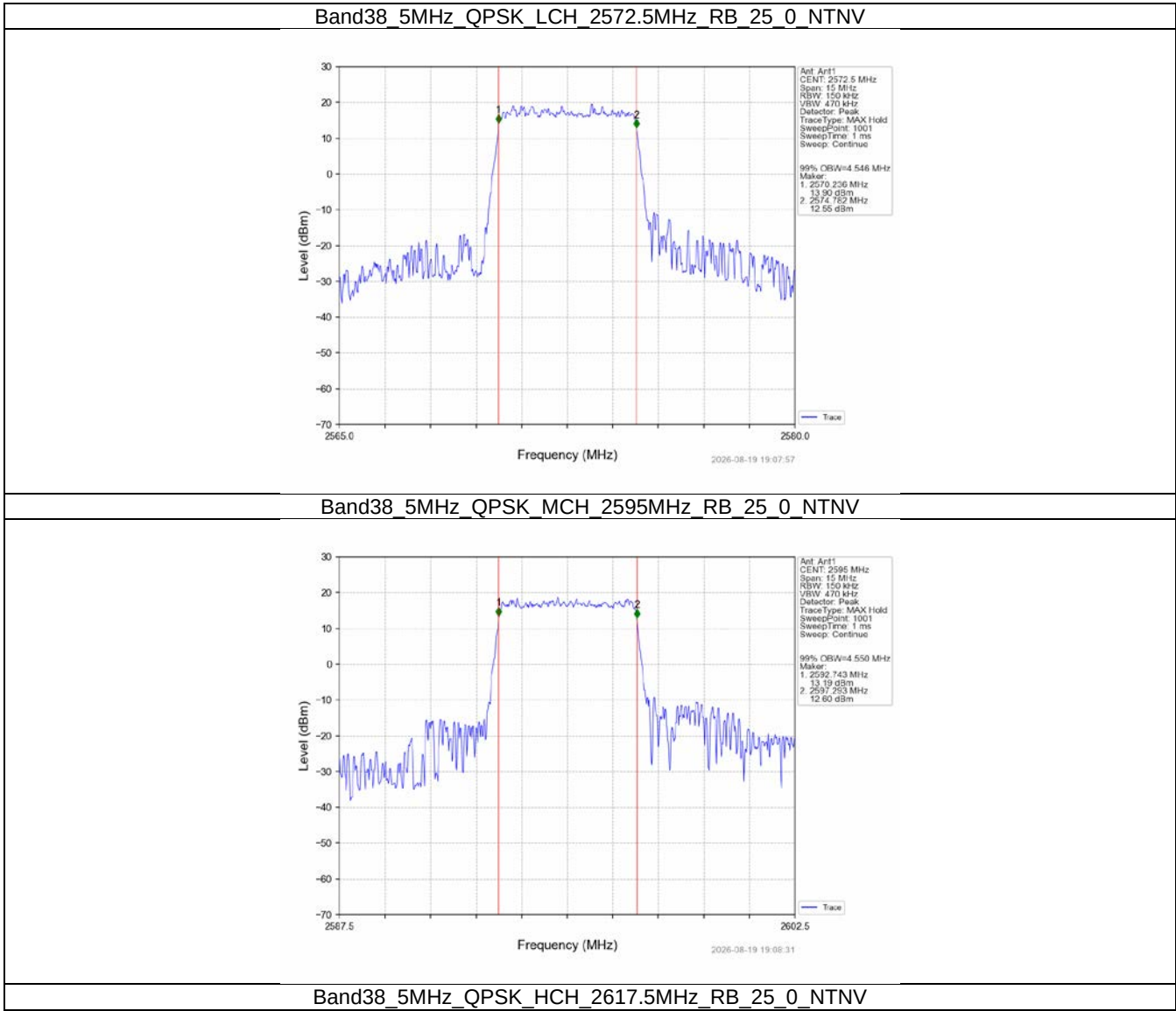
3.1.2 Band38_XDB

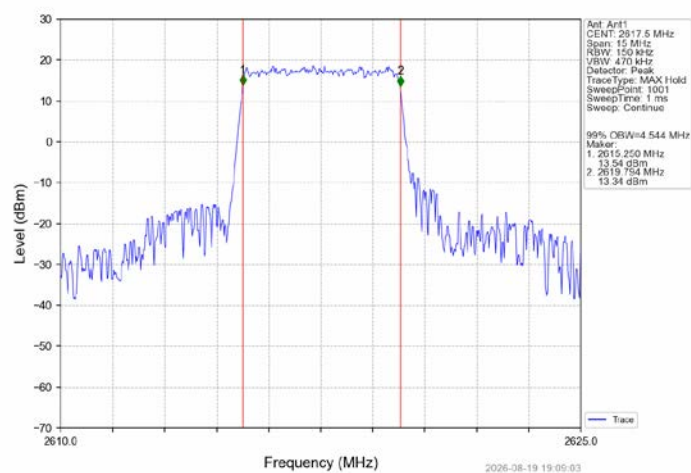
Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.105	/	Pass
		2595	25	0	5.079	/	Pass
		2617.5	25	0	5.057	/	Pass
	16QAM	2572.5	25	0	5.153	/	Pass
		2595	25	0	5.082	/	Pass
		2617.5	25	0	5.069	/	Pass
10	QPSK	2575	50	0	10.103	/	Pass
		2595	50	0	10.452	/	Pass
		2615	50	0	10.452	/	Pass
	16QAM	2575	50	0	9.942	/	Pass
		2595	50	0	9.979	/	Pass
		2615	50	0	10.031	/	Pass
15	QPSK	2577.5	75	0	16.297	/	Pass
		2595	75	0	16.082	/	Pass
		2612.5	75	0	15.361	/	Pass
	16QAM	2577.5	75	0	15.242	/	Pass
		2595	75	0	16.022	/	Pass
		2612.5	75	0	15.424	/	Pass
20	QPSK	2580	100	0	19.858	/	Pass
		2595	100	0	20.240	/	Pass

		2610	100	0	21.342	/	Pass
	16QAM	2580	100	0	19.706	/	Pass
		2595	100	0	20.594	/	Pass
		2610	100	0	20.824	/	Pass

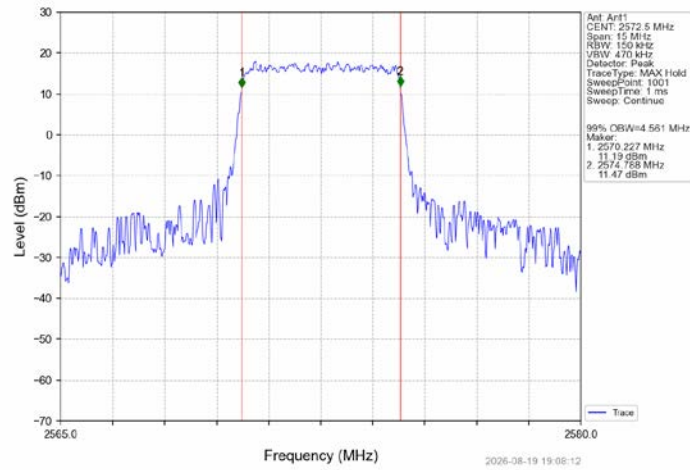
3.2 Test Graph

3.2.1 Band38_OBW

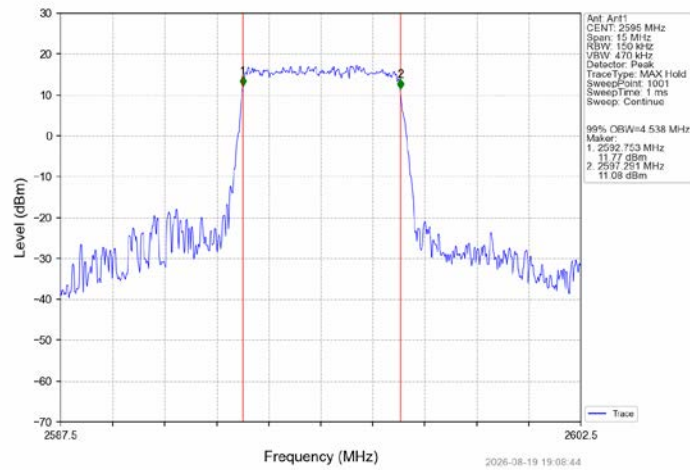




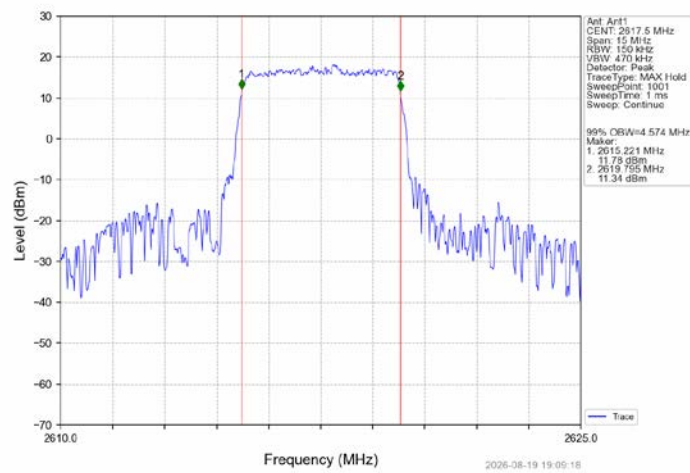
Band38 5MHz 16QAM LCH 2572.5MHz RB 25 0 NTN



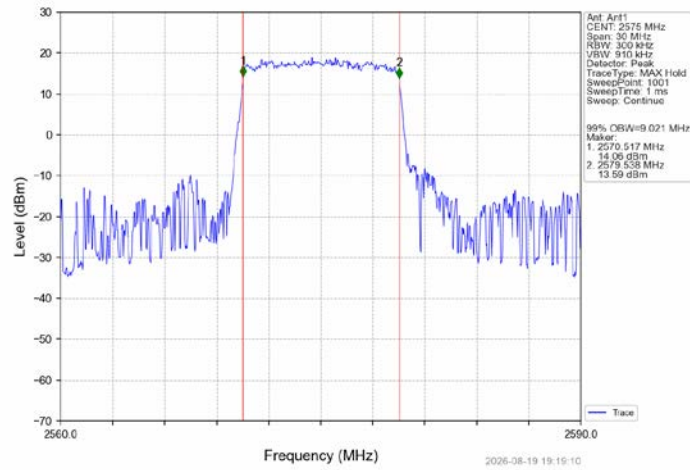
Band38 5MHz 16QAM MCH 2595MHz RB 25 0 NTN



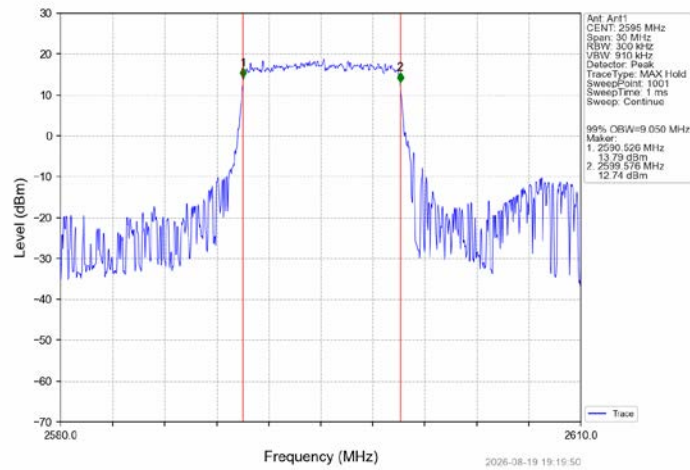
Band38 5MHz 16QAM HCH 2617.5MHz RB 25 0 NTN



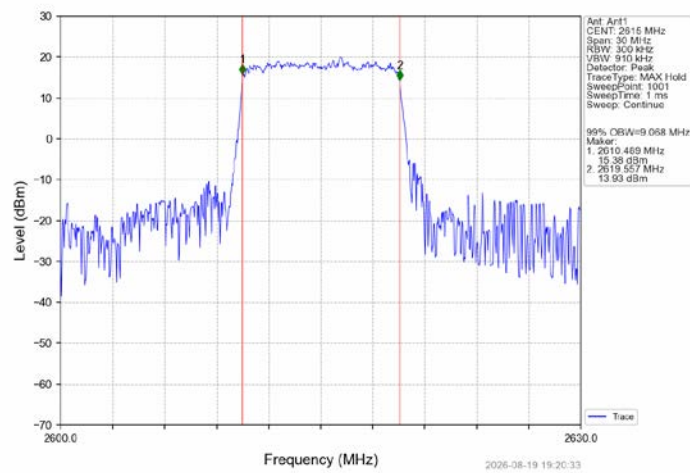
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



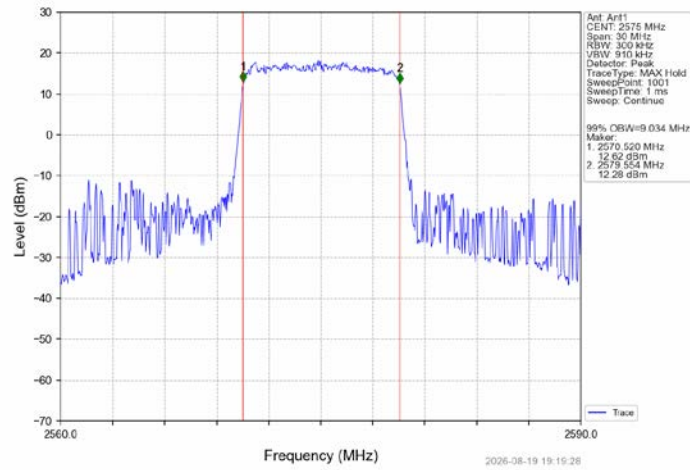
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



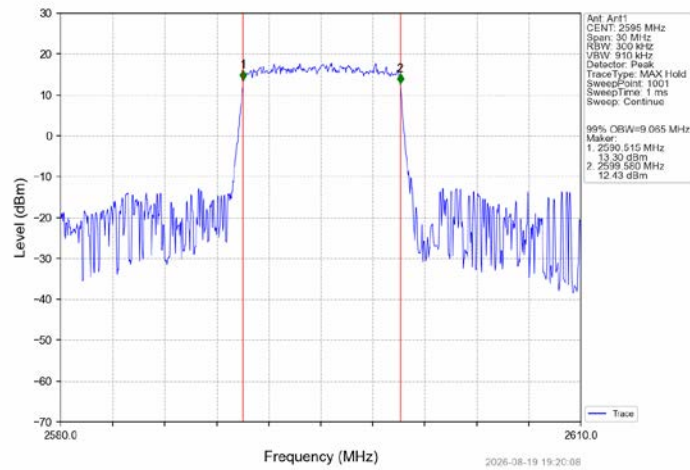
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



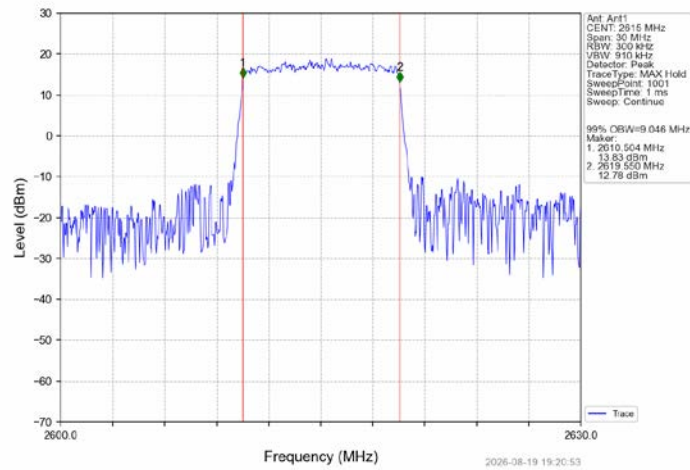
Band38 10MHz 16QAM LCH 2575MHz RB 50 0 NTNV



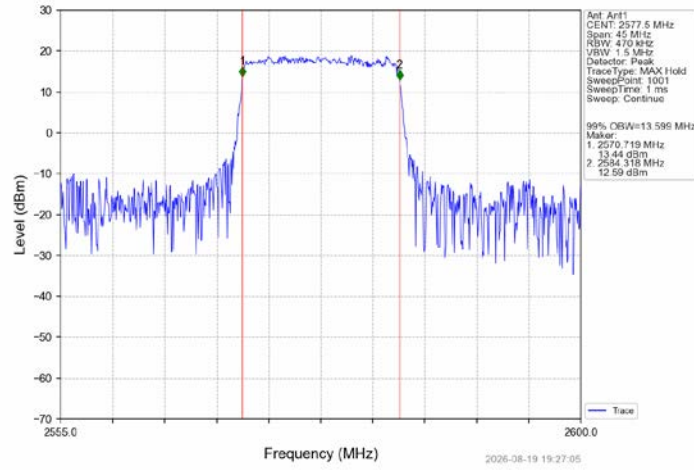
Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTNV



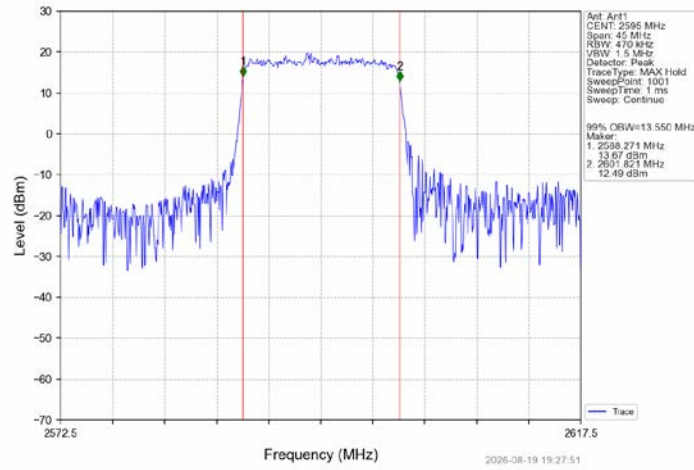
Band38 10MHz 16QAM HCH 2615MHz RB 50 0 NTNV



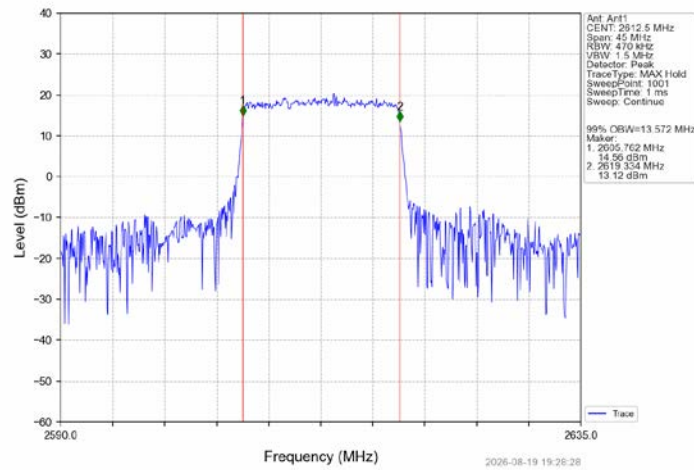
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



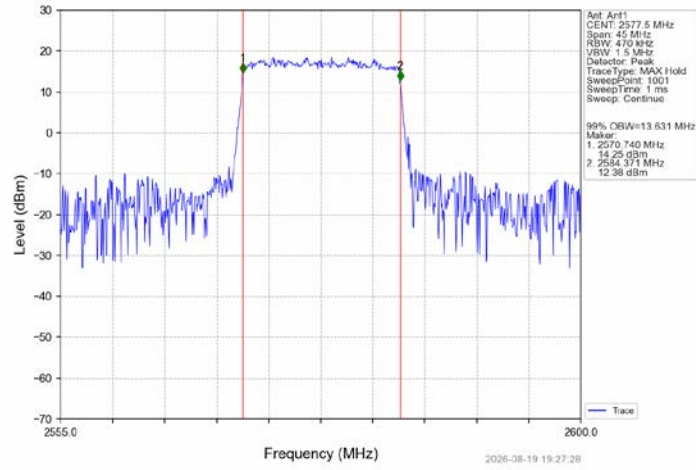
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



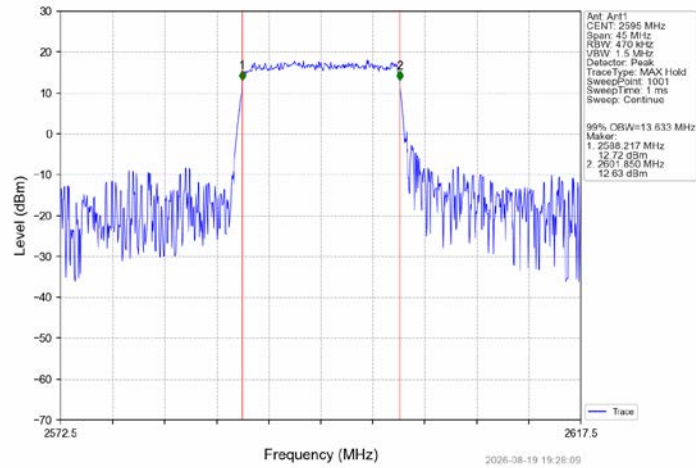
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



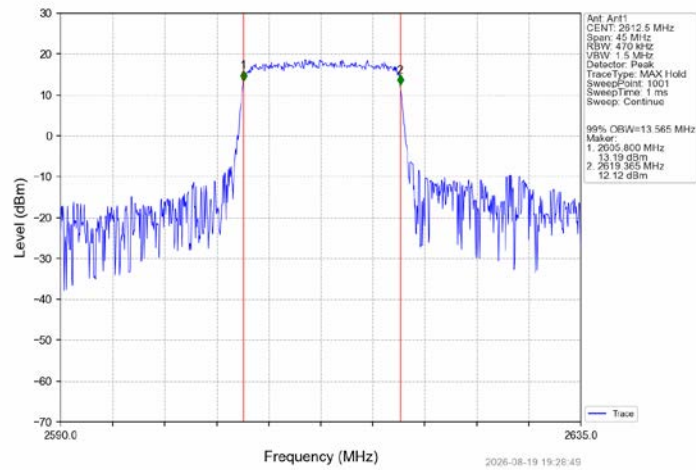
Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



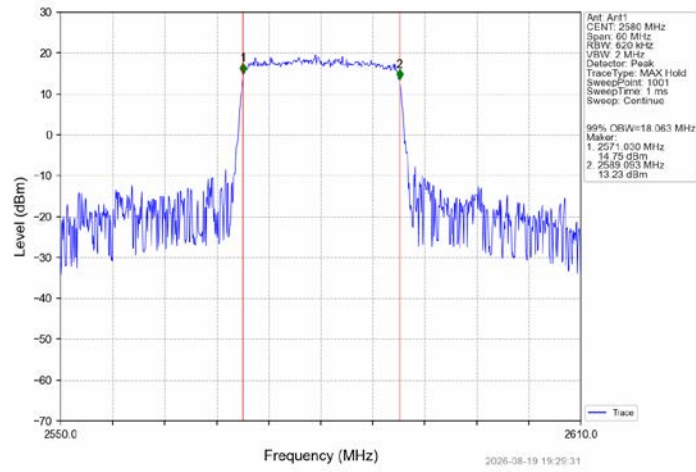
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



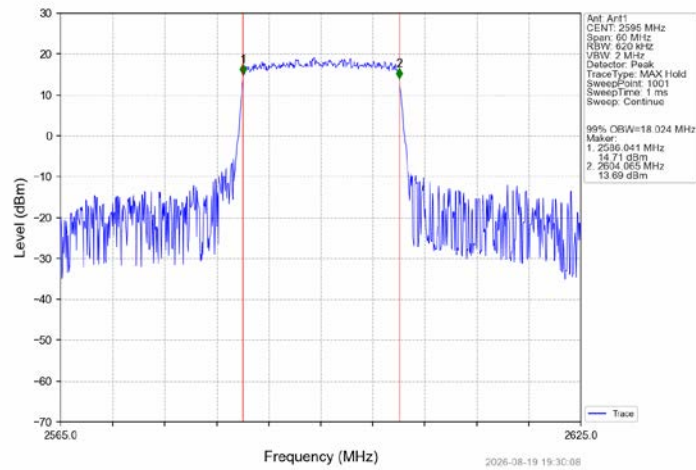
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



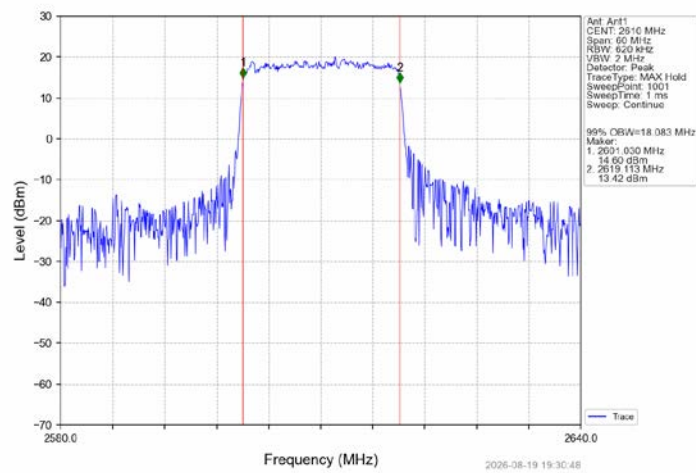
Band38 20MHz QPSK LCH 2580MHz RB 100 0 NTN



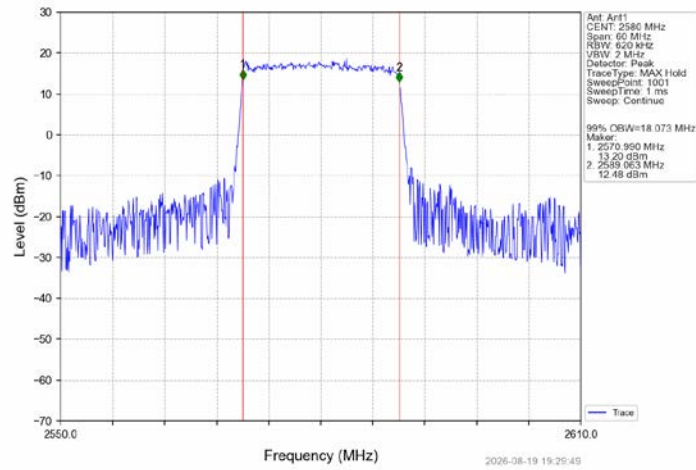
Band38 20MHz QPSK MCH 2595MHz RB 100 0 NTN



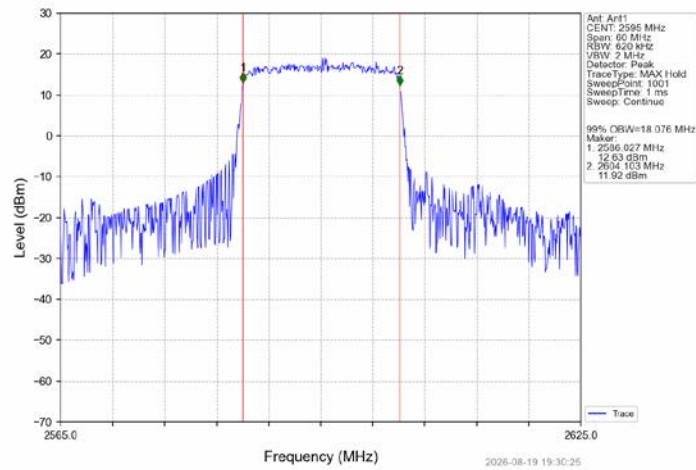
Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTN



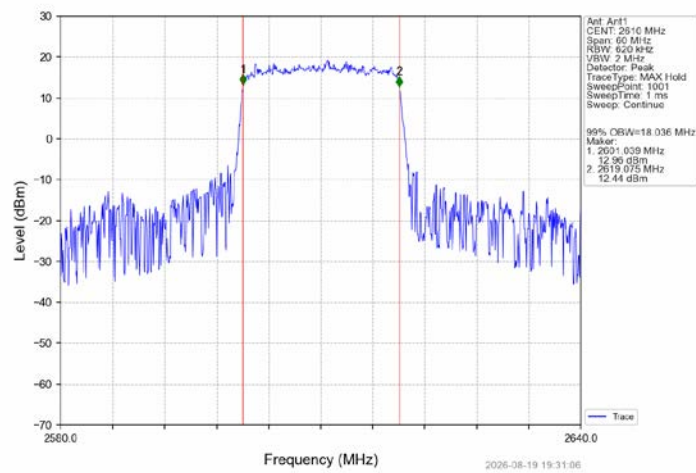
Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV

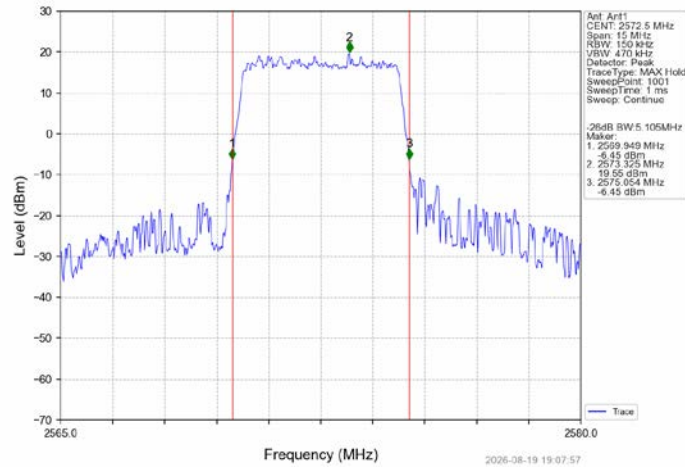


Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV

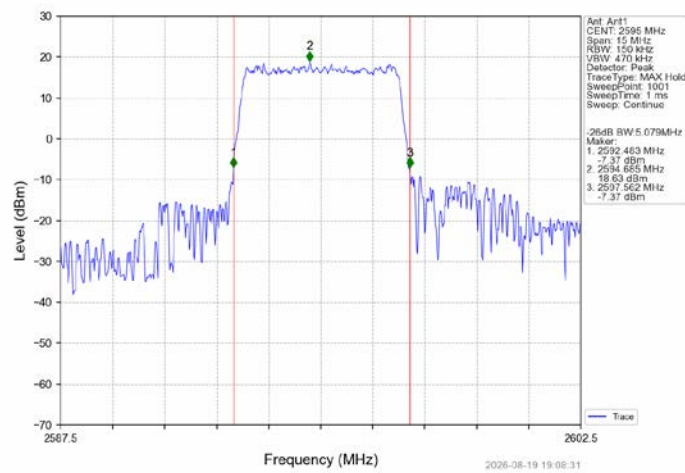


3.2.2 Band38_XDB

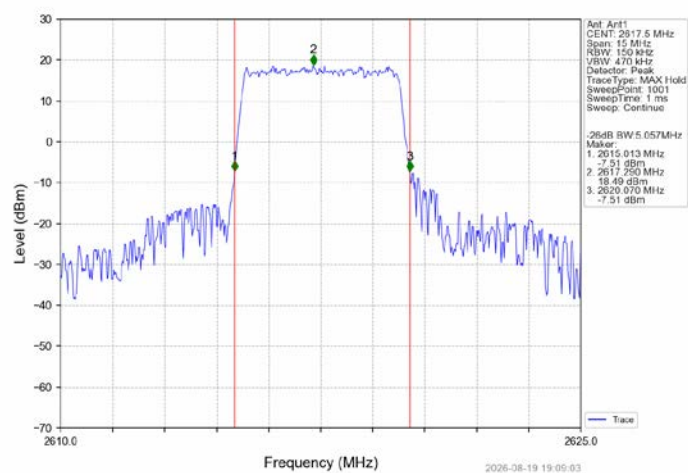
Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV



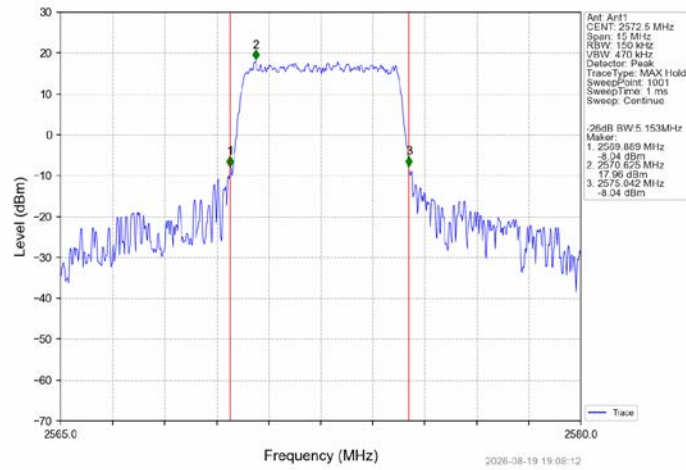
Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



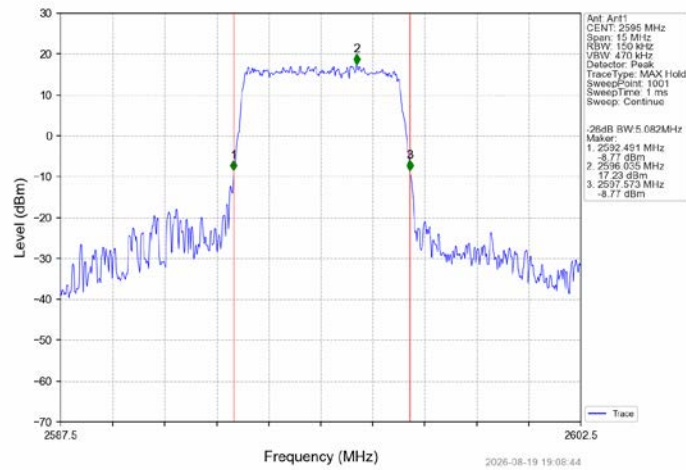
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



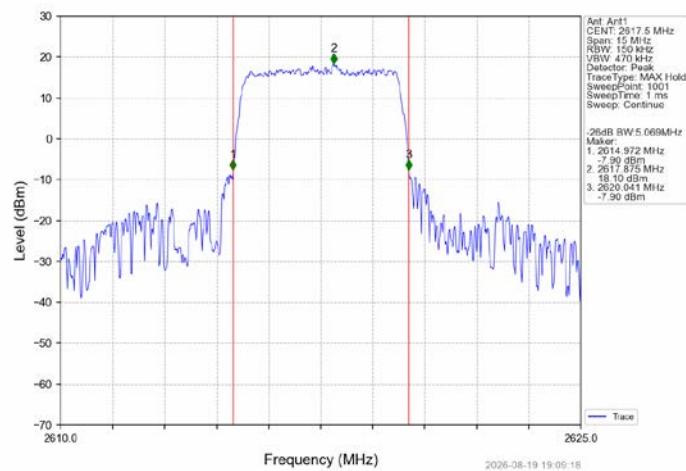
Band38 5MHz 16QAM LCH 2572.5MHz RB 25 0 NTN



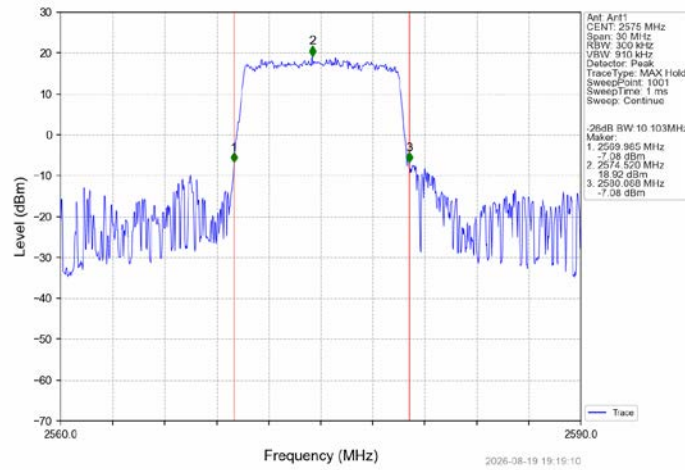
Band38 5MHz 16QAM MCH 2595MHz RB 25 0 NTN



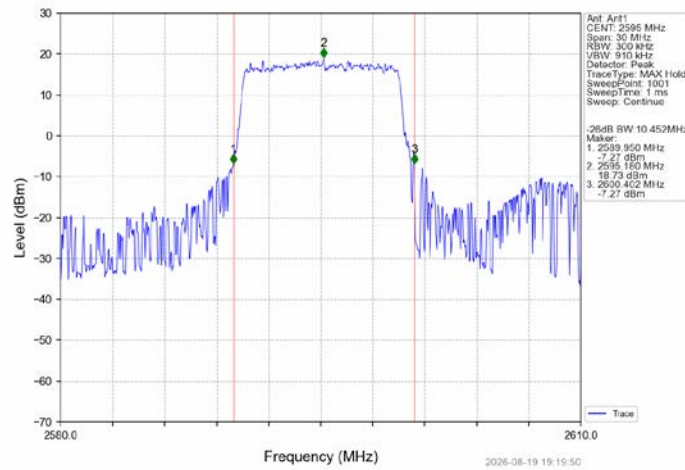
Band38 5MHz 16QAM HCH 2617.5MHz RB 25 0 NTN



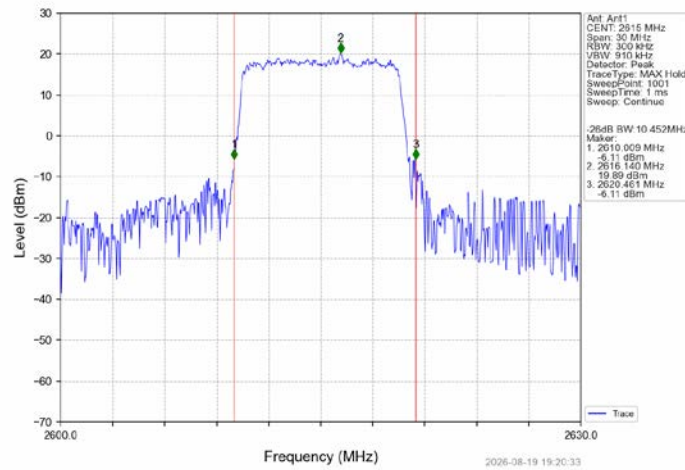
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



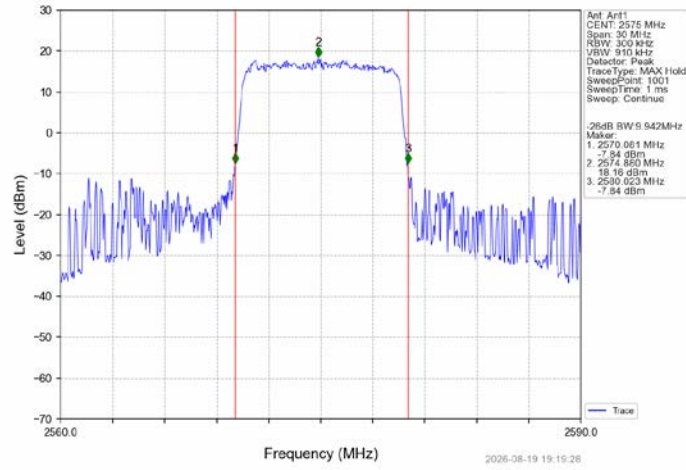
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



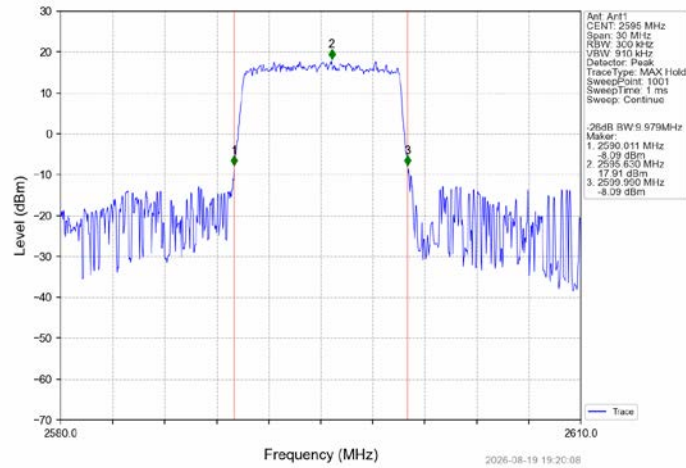
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



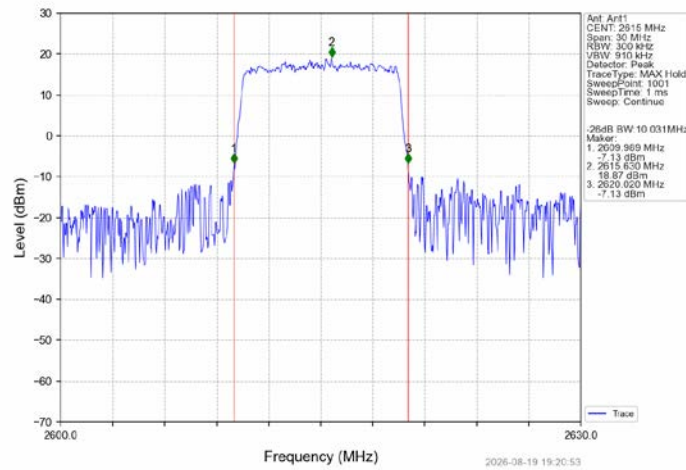
Band38 10MHz 16QAM LCH 2575MHz RB 50 0 NTN



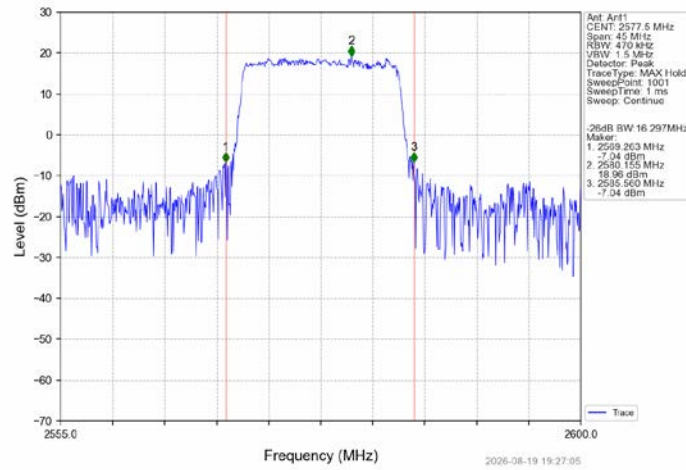
Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTN



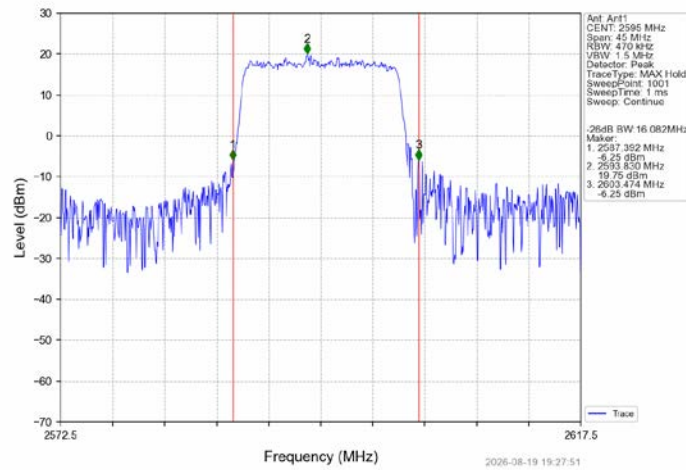
Band38 10MHz 16QAM HCH 2615MHz RB 50 0 NTN



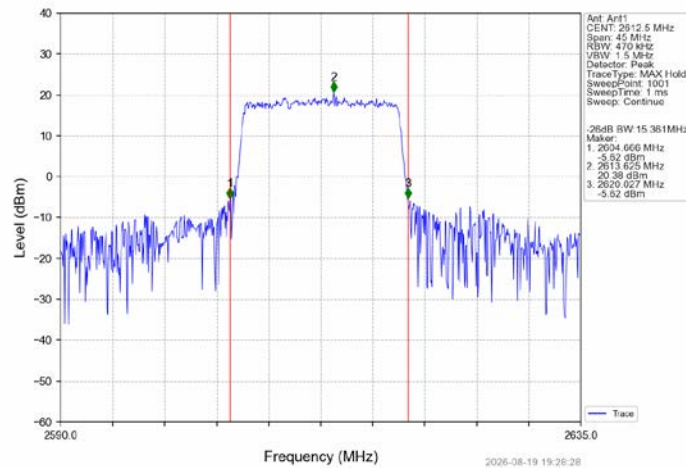
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



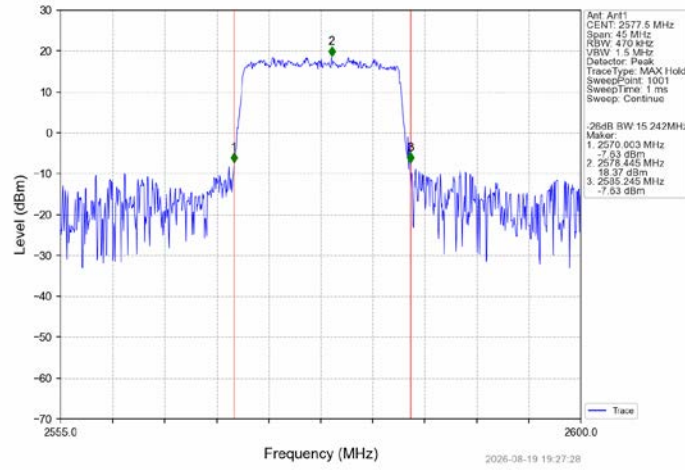
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



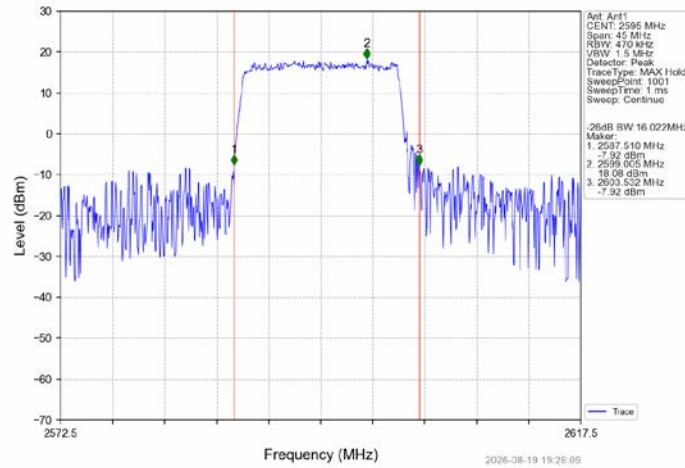
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



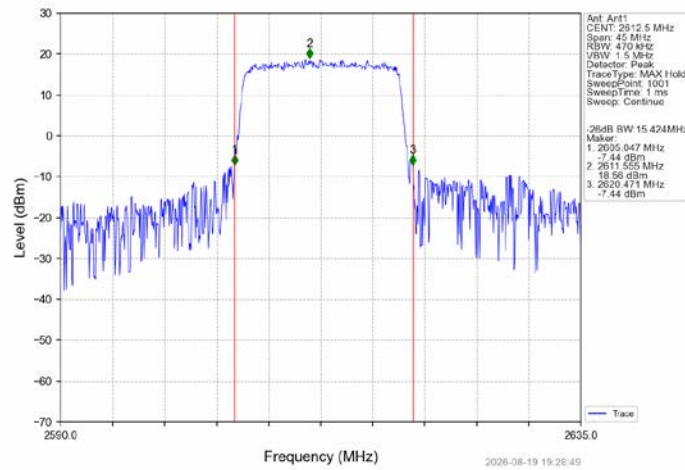
Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



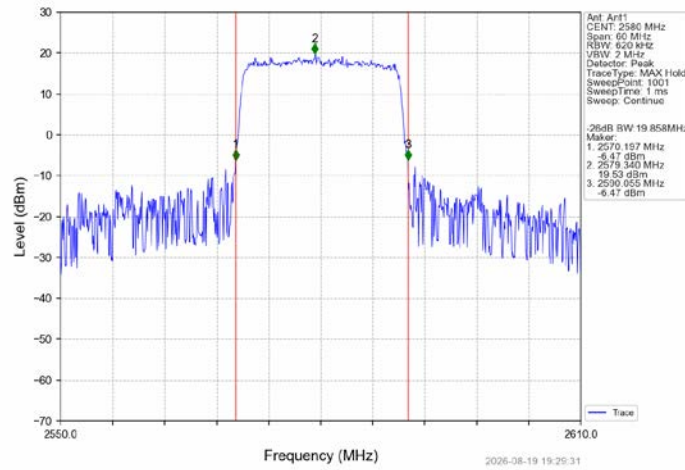
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



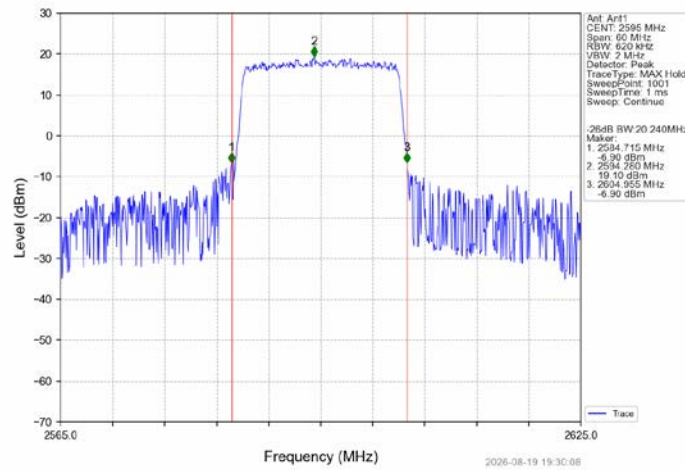
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



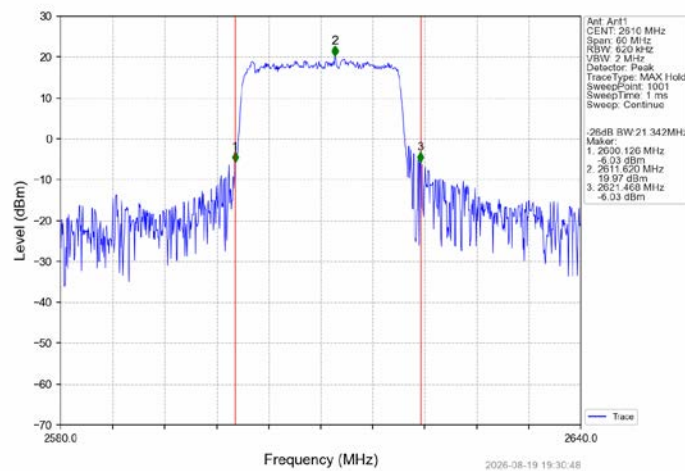
Band38 20MHz QPSK LCH 2580MHz RB 100 0 NTN



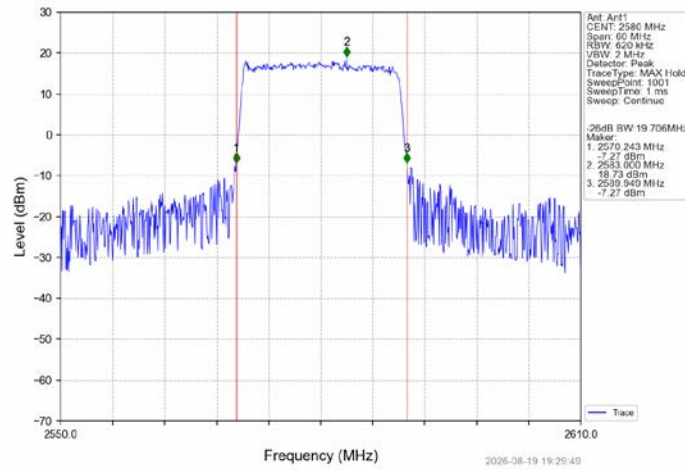
Band38 20MHz QPSK MCH 2595MHz RB 100 0 NTN



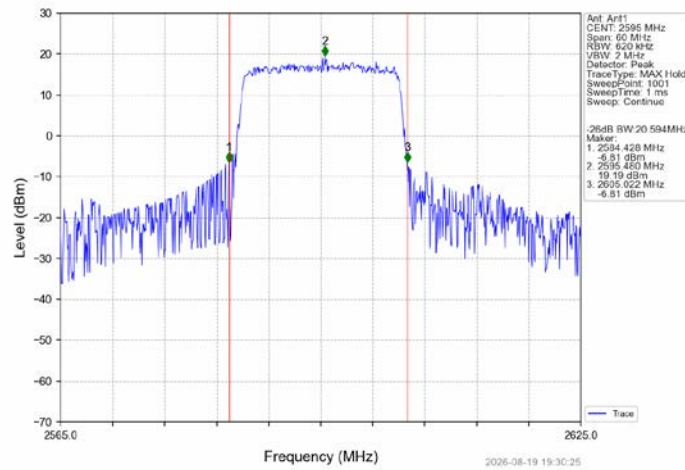
Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTN



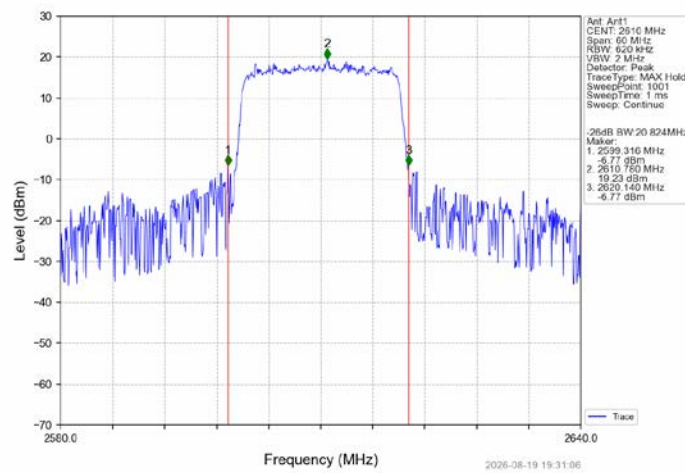
Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



4. Peak-Average Ratio

4.1 Test Result

4.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	7.16	<=13	Pass
	2595	25	0	7.31	<=13	Pass
	2617.5	25	0	7.29	<=13	Pass
16QAM	2572.5	25	0	8.08	<=13	Pass
	2595	25	0	8.11	<=13	Pass
	2617.5	25	0	8.03	<=13	Pass

4.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	50	0	7.23	<=13	Pass
	2595	50	0	7.08	<=13	Pass
	2615	50	0	7.26	<=13	Pass
16QAM	2575	50	0	7.88	<=13	Pass
	2595	50	0	8.01	<=13	Pass
	2615	50	0	7.86	<=13	Pass

4.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	8.39	<=13	Pass
	2595	75	0	7.30	<=13	Pass
	2612.5	75	0	7.31	<=13	Pass
16QAM	2577.5	75	0	8.37	<=13	Pass
	2595	75	0	8.31	<=13	Pass
	2612.5	75	0	8.53	<=13	Pass

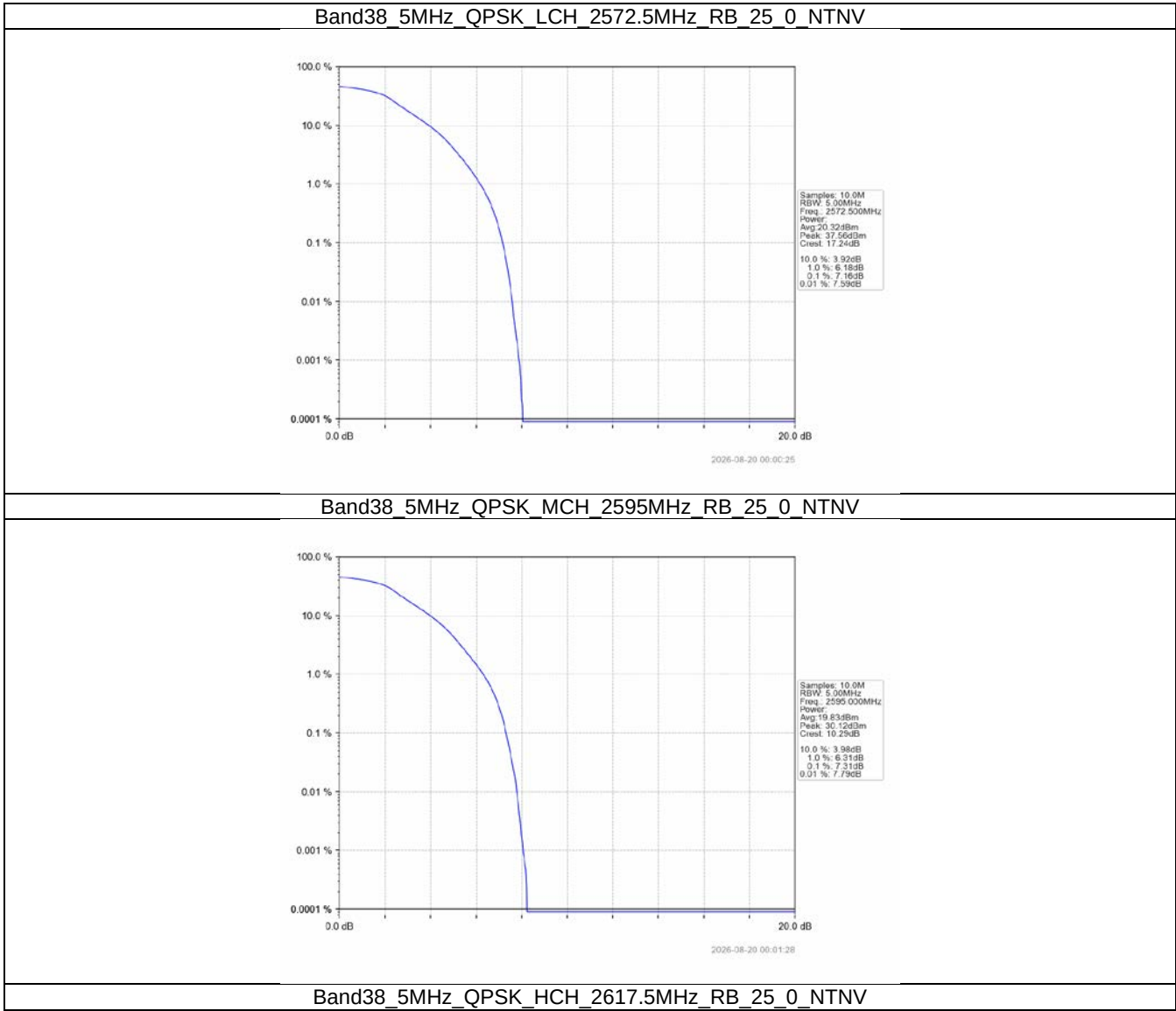
4.1.4 B38_20MHz

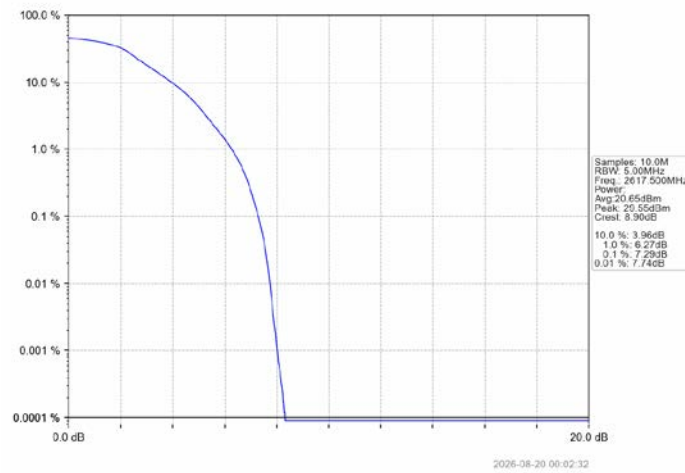
Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	8.25	<=13	Pass
	2595	100	0	8.12	<=13	Pass
	2610	100	0	8.18	<=13	Pass
16QAM	2580	100	0	8.72	<=13	Pass
	2595	100	0	8.75	<=13	Pass

	2610	100	0	8.82	≤ 13	Pass
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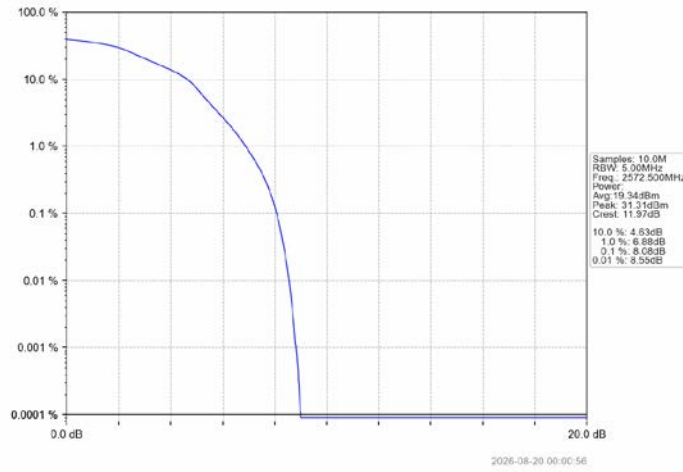
4.2 Test Graph

4.2.1 B38_5MHz

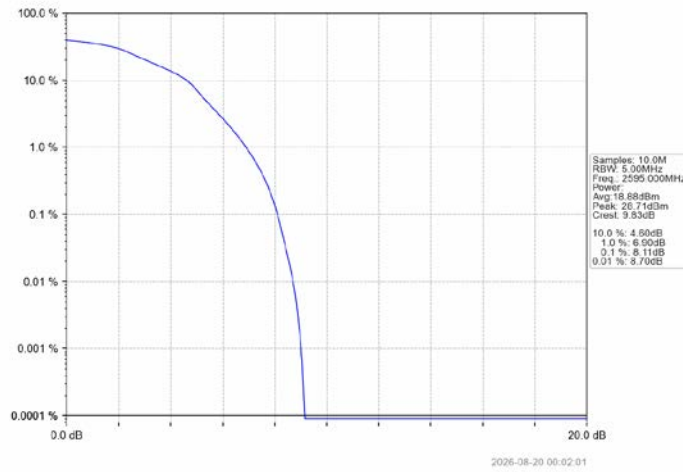




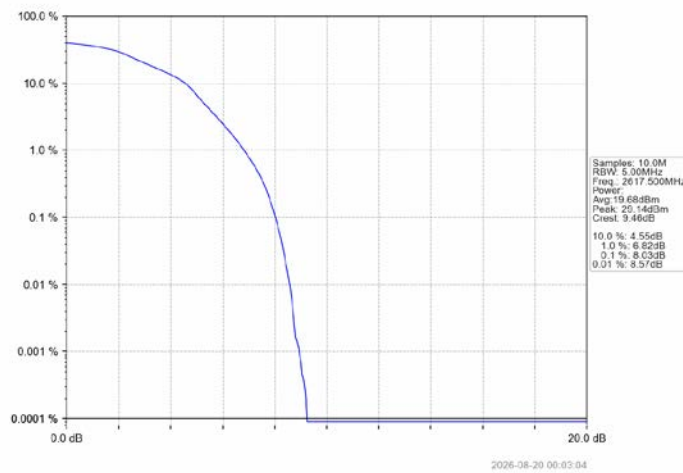
Band38 5MHz 16QAM LCH 2572.5MHz RB 25 0 NTN



Band38 5MHz 16QAM MCH 2595MHz RB 25 0 NTN

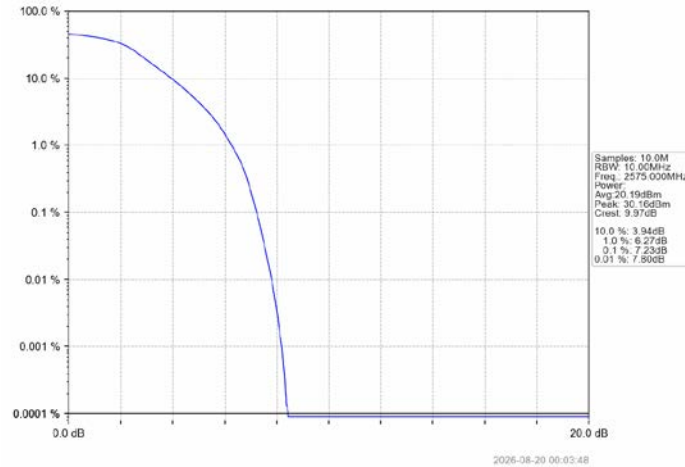


Band38 5MHz 16QAM HCH 2617.5MHz RB 25 0 NTN

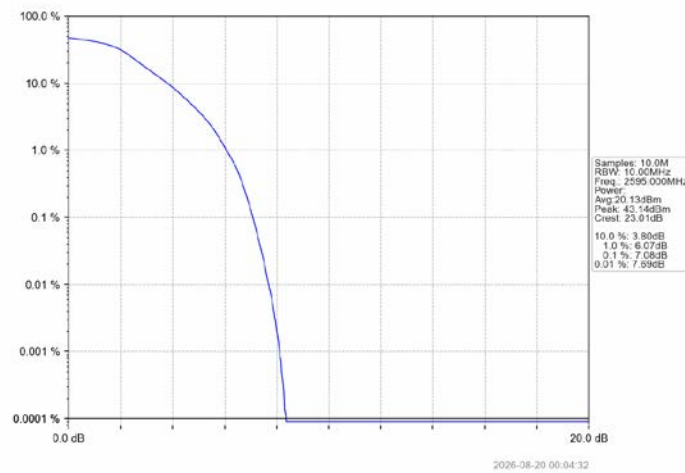


4.2.2 B38_10MHz

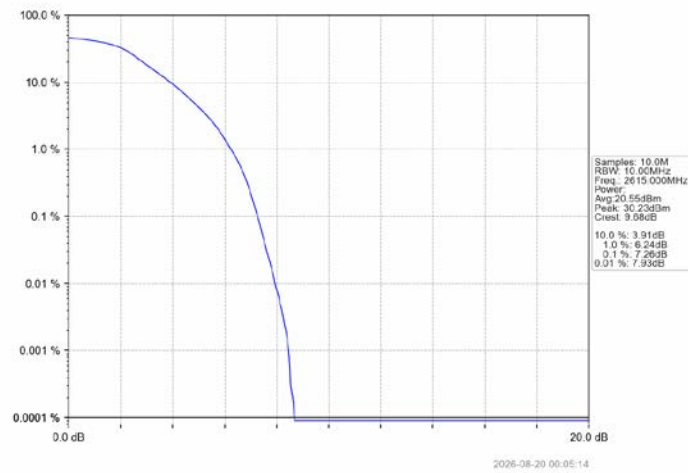
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



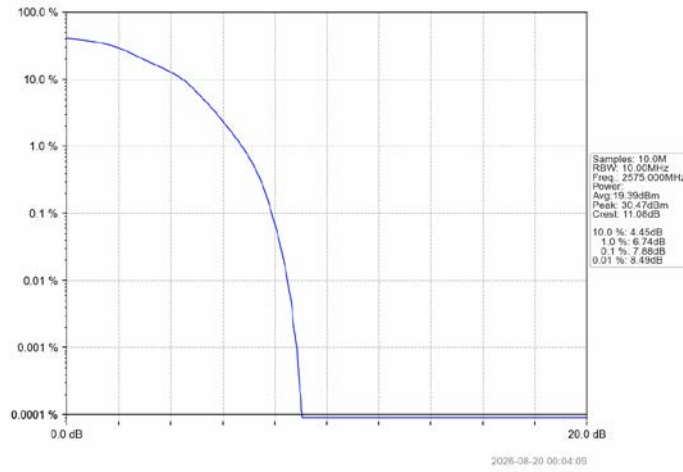
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



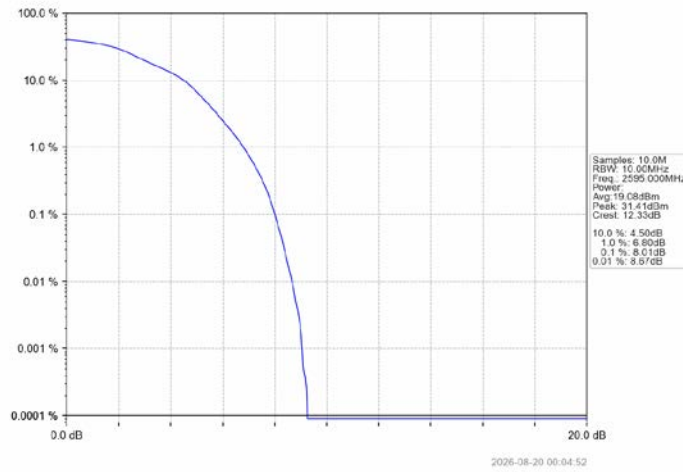
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



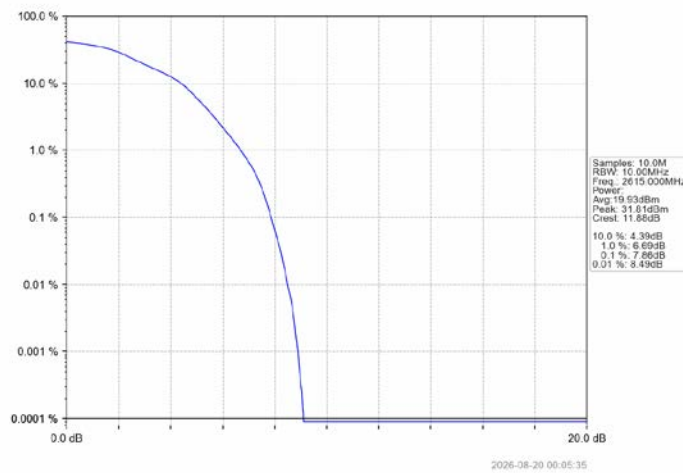
Band38 10MHz 16QAM LCH 2575MHz RB 50 0 NTN



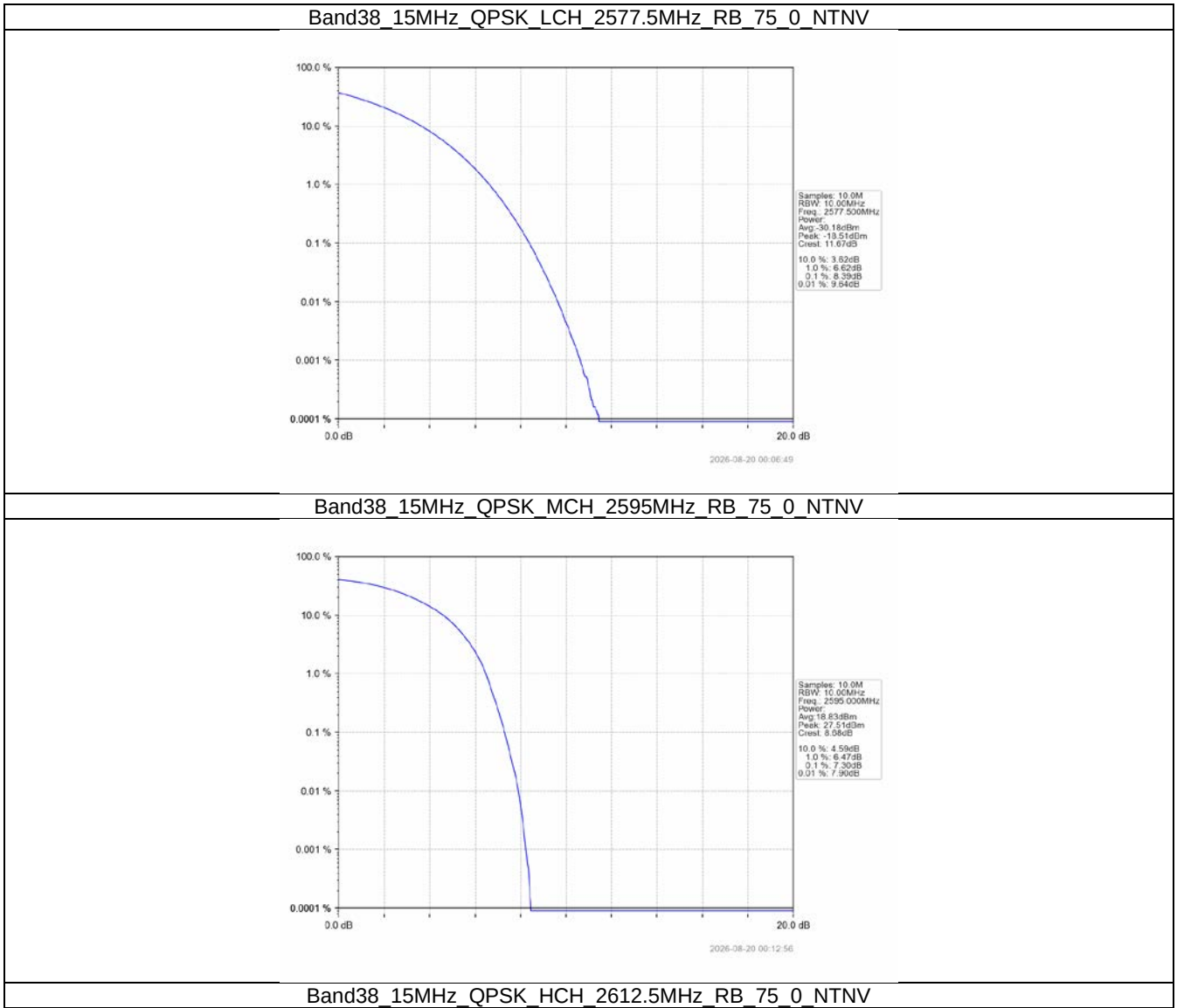
Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTN

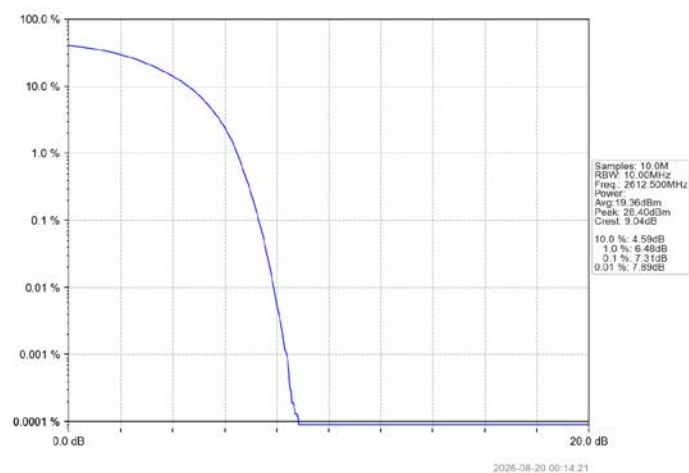


Band38 10MHz 16QAM HCH 2615MHz RB 50 0 NTN

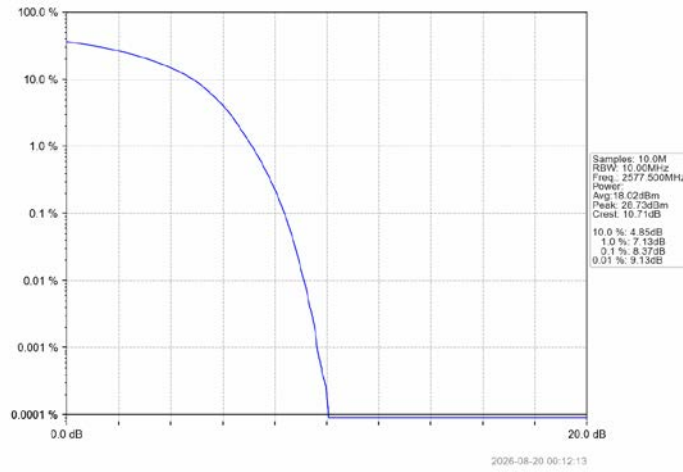


4.2.3 B38_15MHz

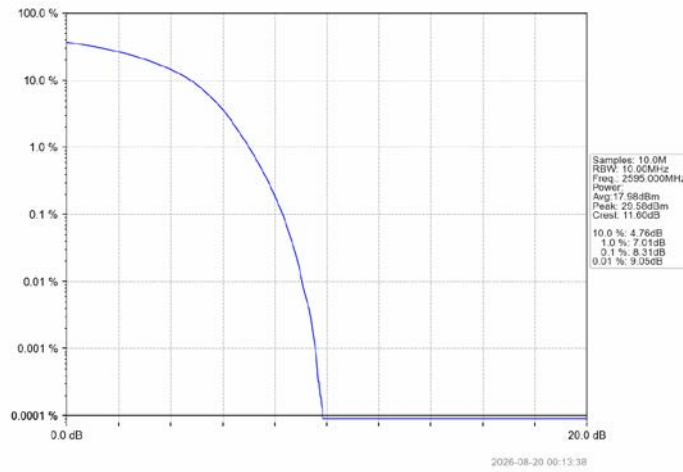




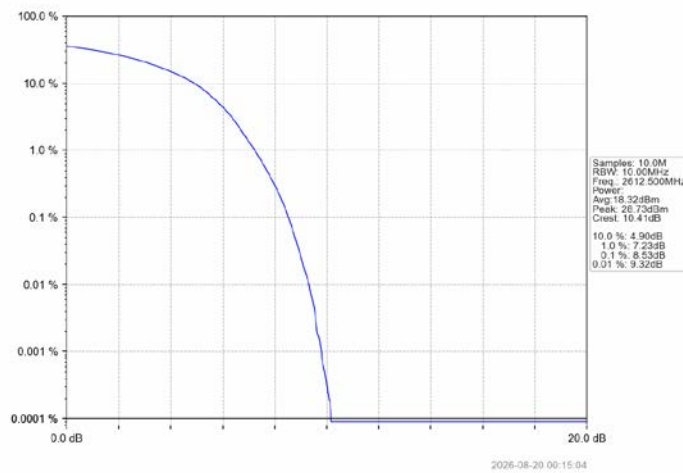
Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



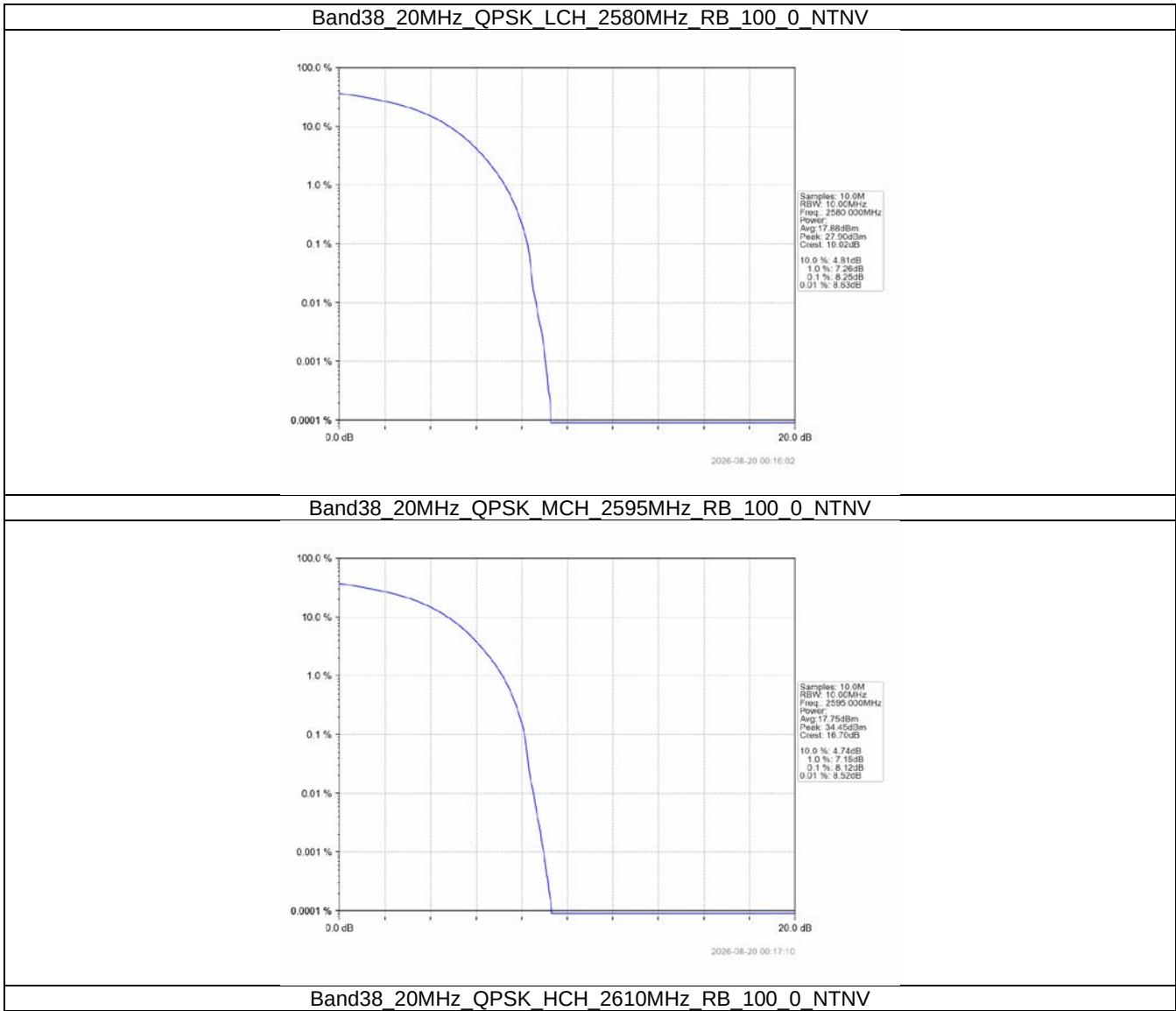
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV

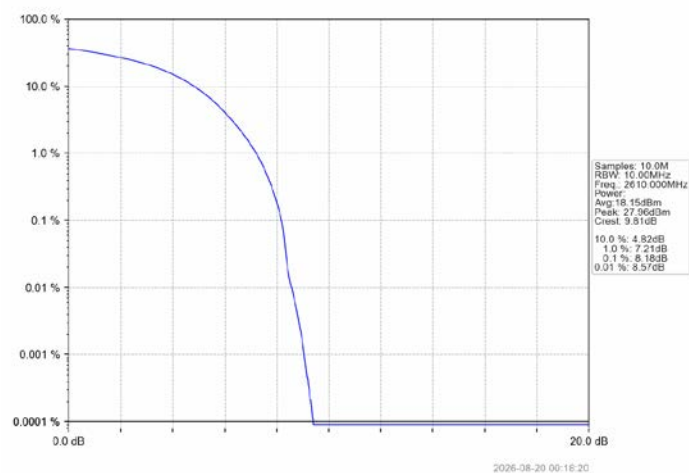


Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV

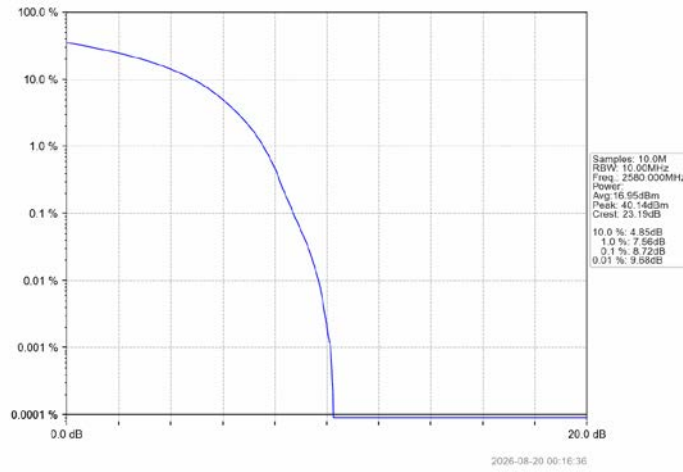


4.2.4 B38_20MHz

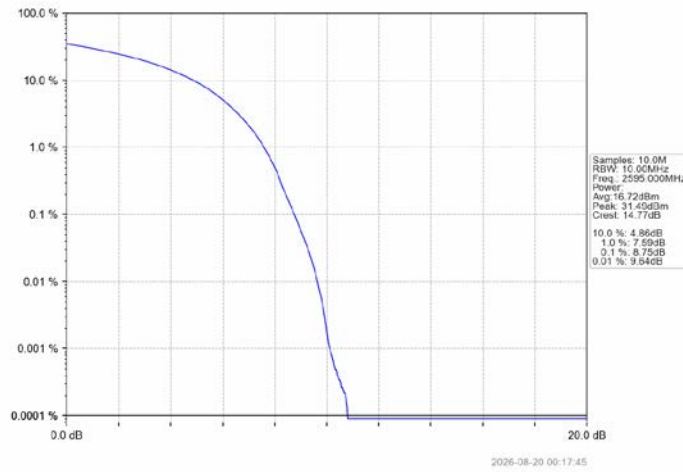




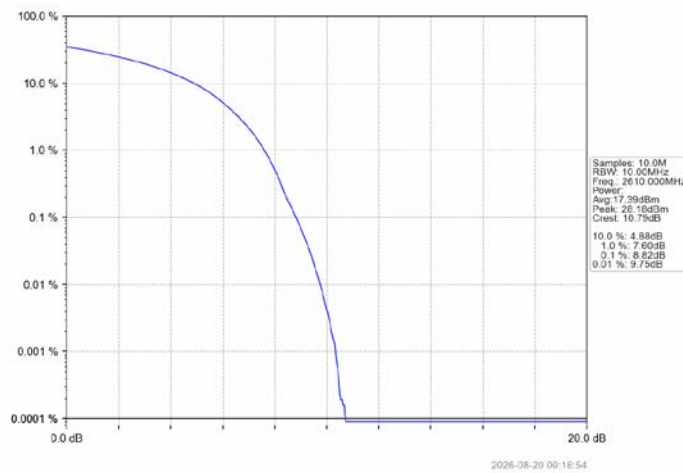
Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



5. Spurious Emission and Band Edge

5.1 Test Result

5.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2617.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2617.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2615	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	2575	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2615	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2612.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	2577.5	1	0	Refer To Test Graph		Pass

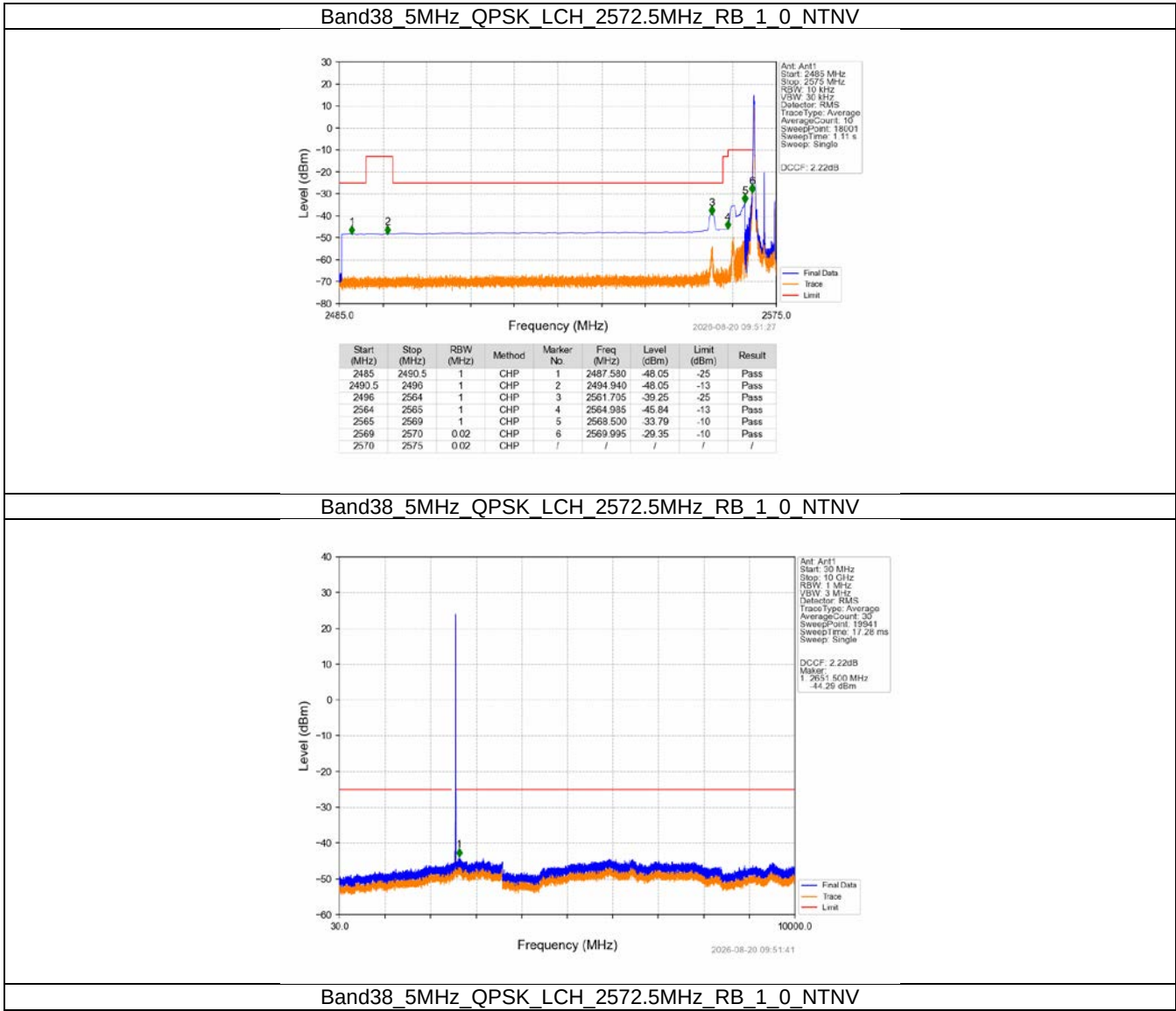
		75	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
	2612.5	1	0	Refer To Test Graph	Pass
			74	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass

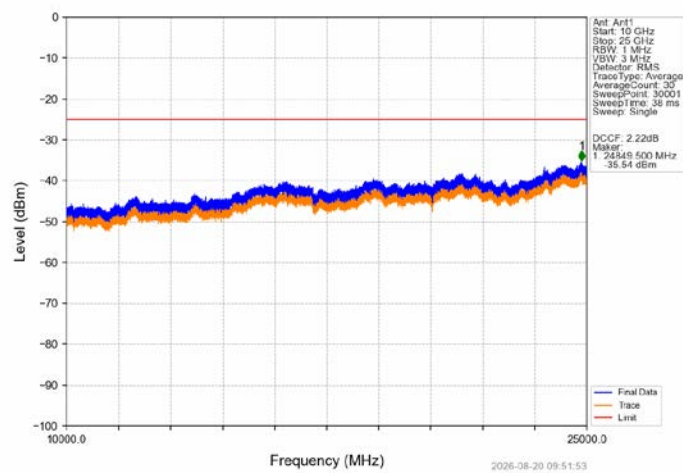
5.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2580	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
	2610	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
16QAM	2580	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
	2610	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass

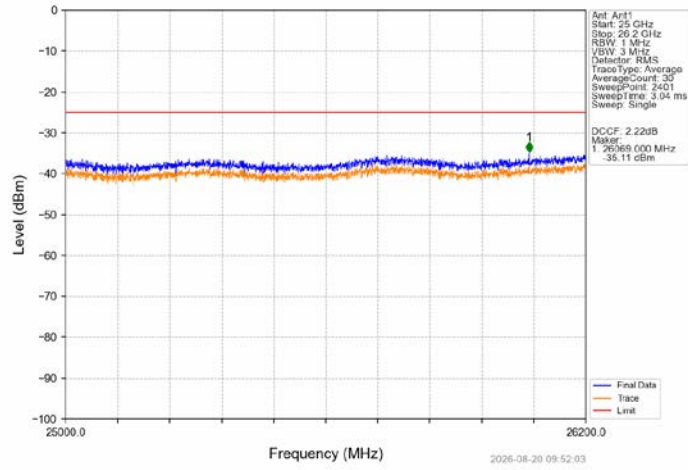
5.2 Test Graph

5.2.1 B38_5MHz

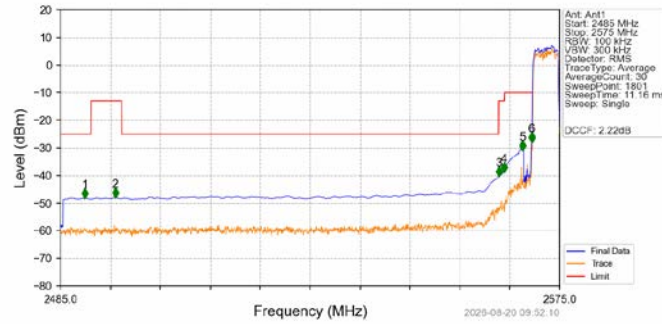




Band38 5MHz QPSK LCH 2572.5MHz RB 1 0 NTNV

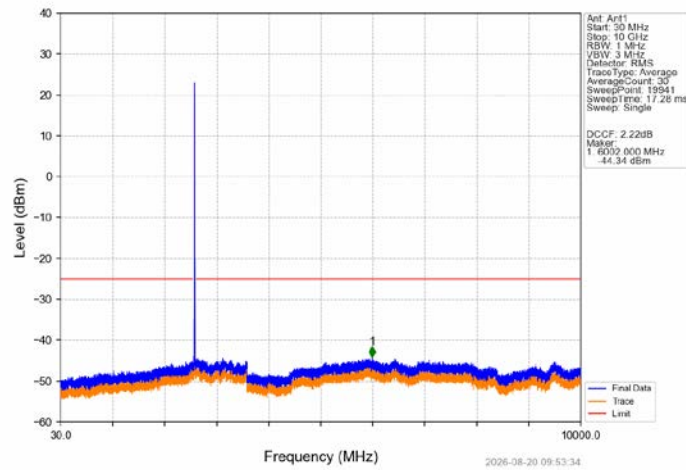


Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV

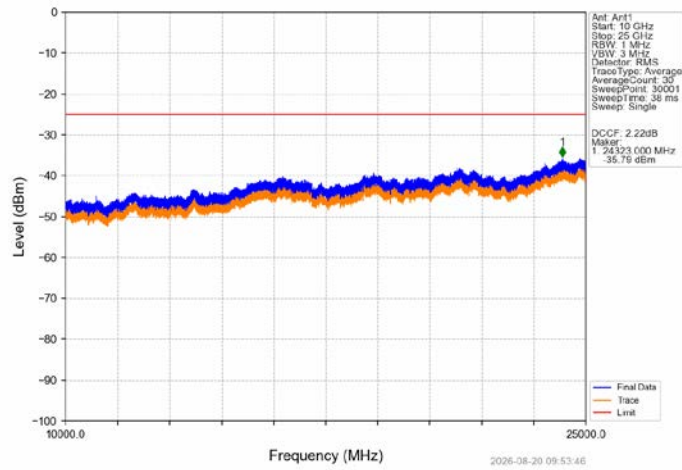


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.400	-48.09	-25	Pass
2490.5	2496	1	CHP	2	2494.850	-47.89	-13	Pass
2496	2504	1	CHP	3	2504.000	-40.13	-25	Pass
2504	2509	1	CHP	4	2504.950	-38.63	-13	Pass
2509	2519	1	CHP	5	2509.250	-30.69	-10	Pass
2519	2570	0.102	CHP	6	2569.950	-27.82	-10	Pass
2570	2575	0.102	CHP	7	2575.000	-	-	Pass

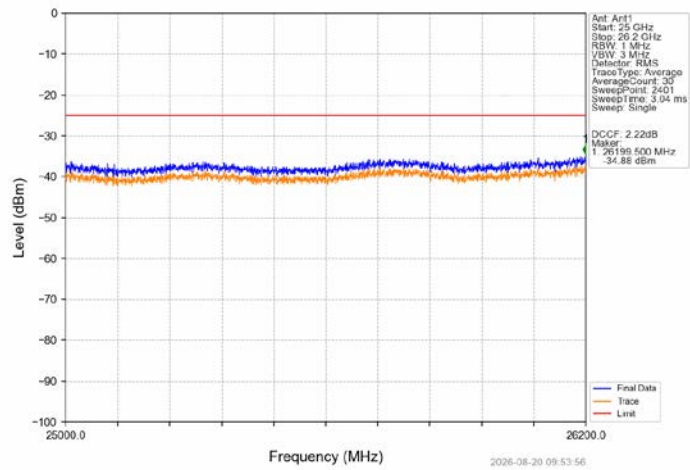
Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



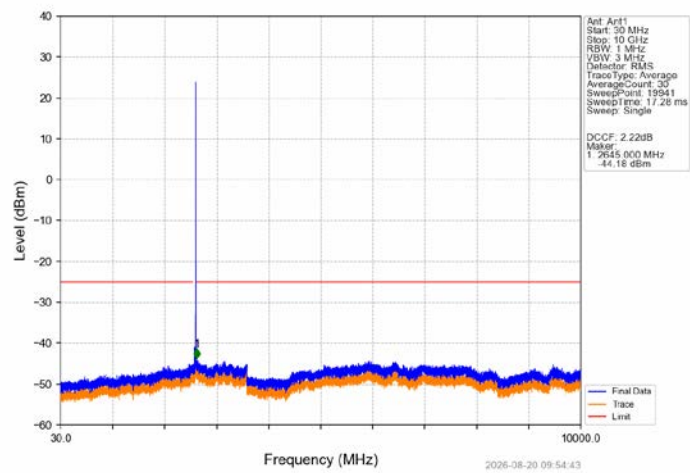
Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



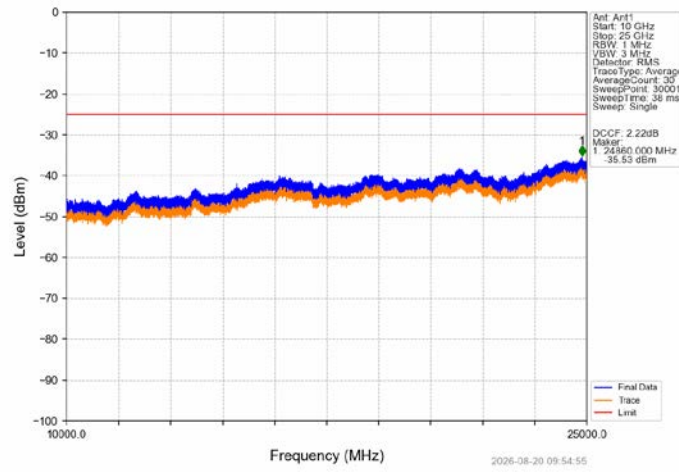
Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



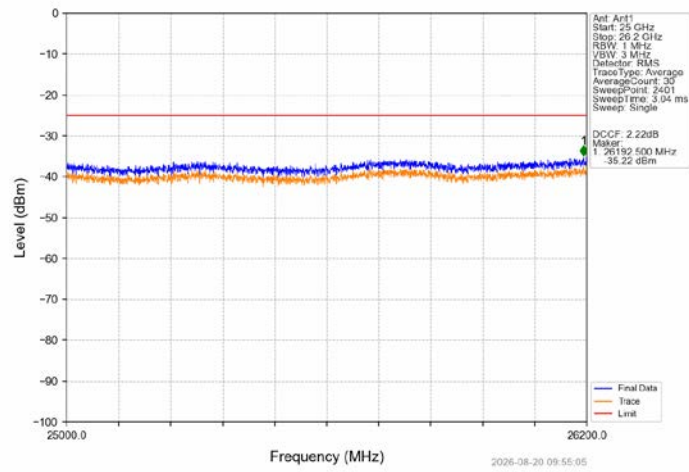
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV



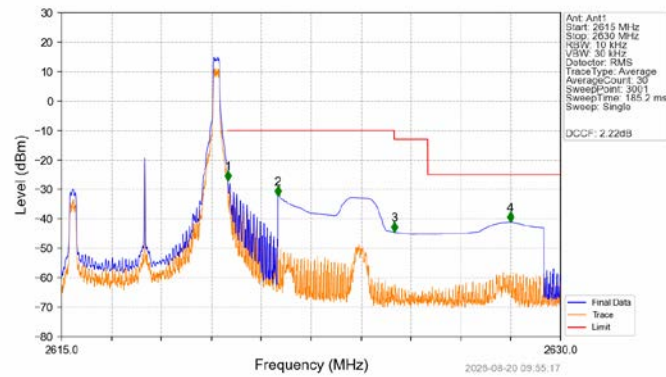
Band38 5MHz QPSK HCH 2617.5MHz RB 1 0 NTNV



Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV

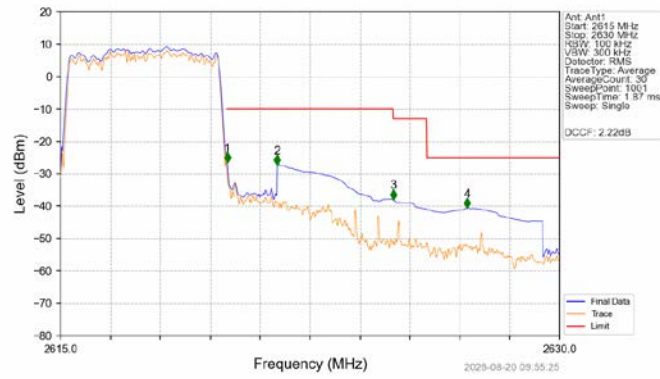


Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_24_NTNV

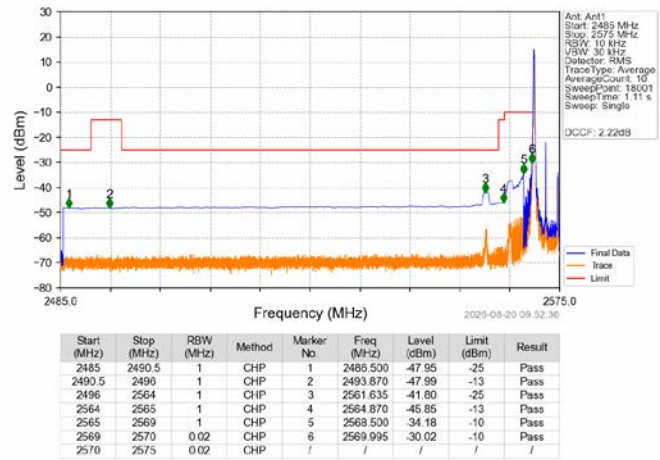


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.005	-27.07	-10	Pass
2621	2625	1	CHP	2	2621.500	-32.30	-10	Pass
2625	2626	1	CHP	3	2625.005	-44.46	-13	Pass
2626	2630	1	CHP	4	2628.485	-41.12	-25	Pass

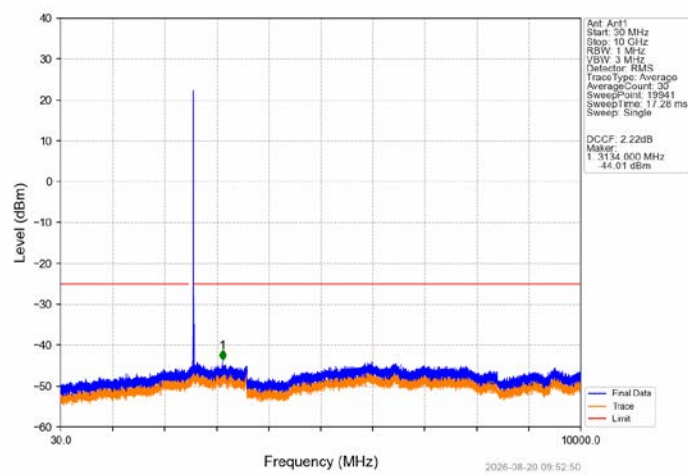
Band38 5MHz QPSK HCH 2617.5MHz RB 25 0 NTNV



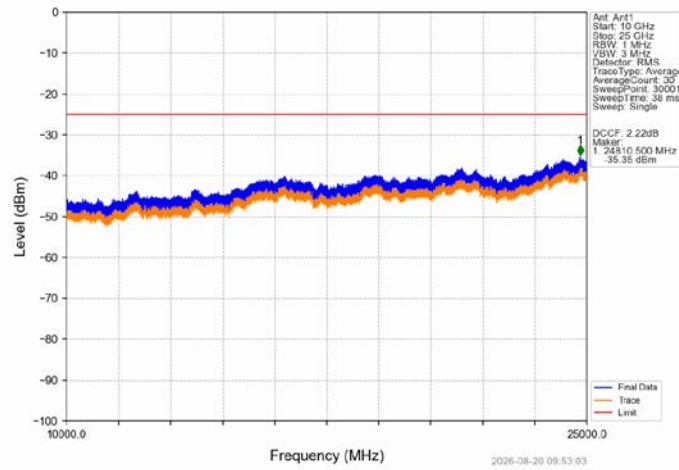
Band38 5MHz 16QAM LCH 2572.5MHz RB 1 0 NTNV



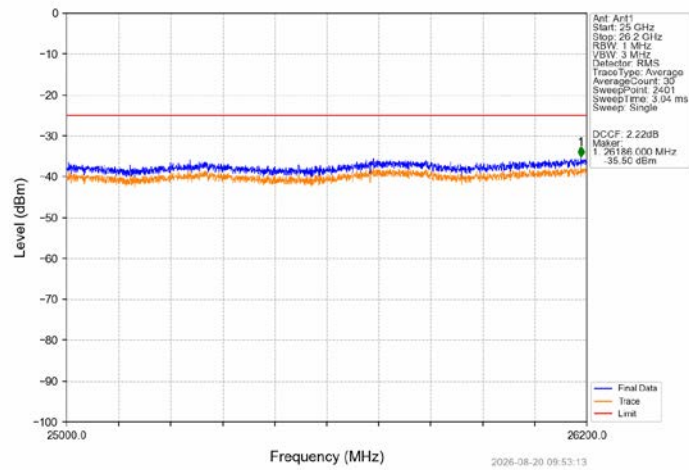
Band38 5MHz 16QAM LCH 2572.5MHz RB 1 0 NTNV



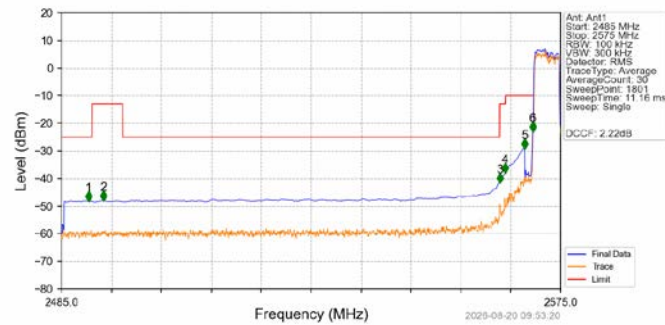
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_1_0_NTNV



Band38_5MHz_16QAM_LCH_2572.5MHz_RB_1_0_NTNV

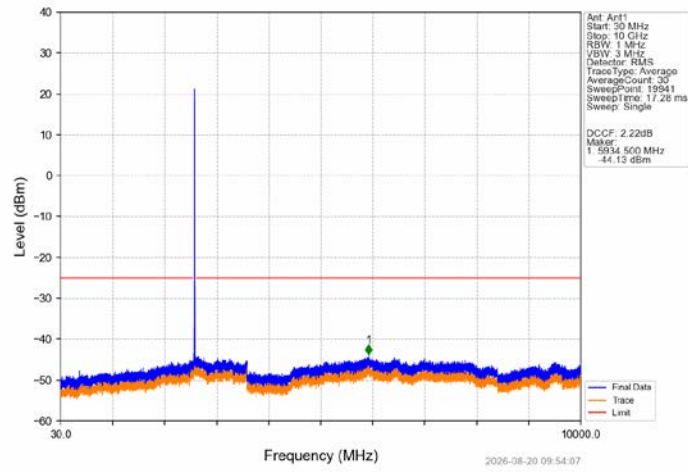


Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV

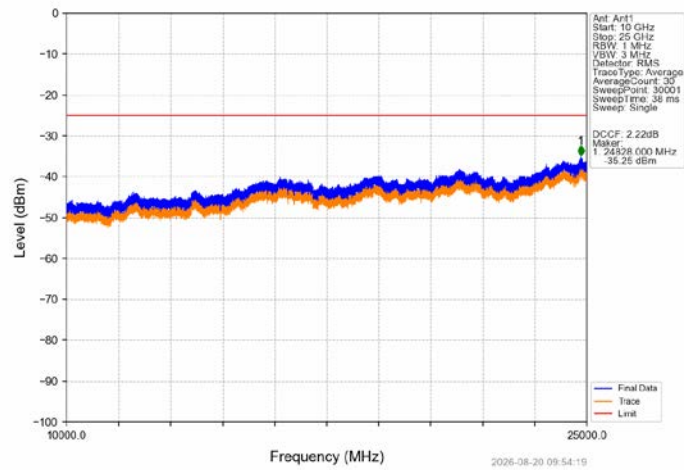


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.900	-46.03	-25	Pass
2490.5	2496	1	CHP	2	2492.550	-47.87	-13	Pass
2496	2504	1	CHP	3	2504.000	-41.39	-25	Pass
2504	2505	1	CHP	4	2505.000	-37.83	-13	Pass
2505	2509	1	CHP	5	2508.500	-29.04	-10	Pass
2509	2570	0.103	CHP	6	2569.950	-22.84	-10	Pass
2570	2575	0.103	CHP	/	/	/	/	/

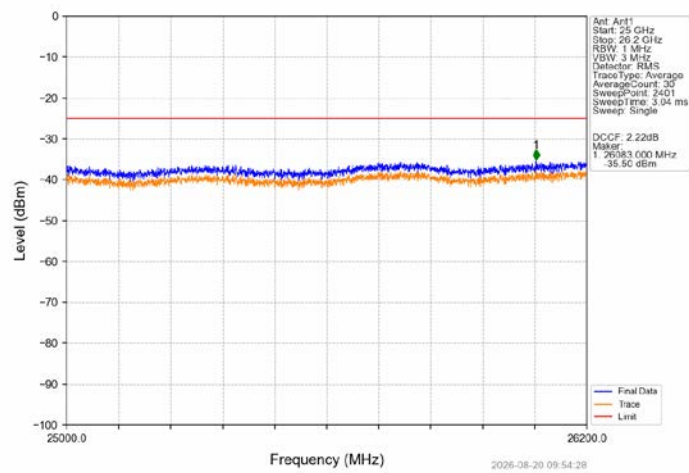
Band38_5MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



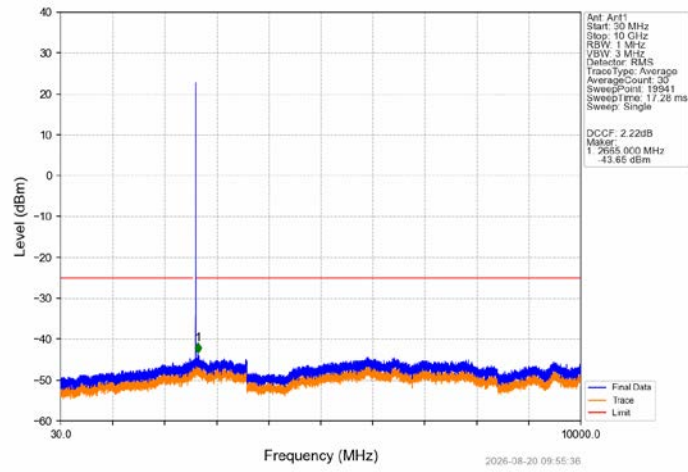
Band38_5MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



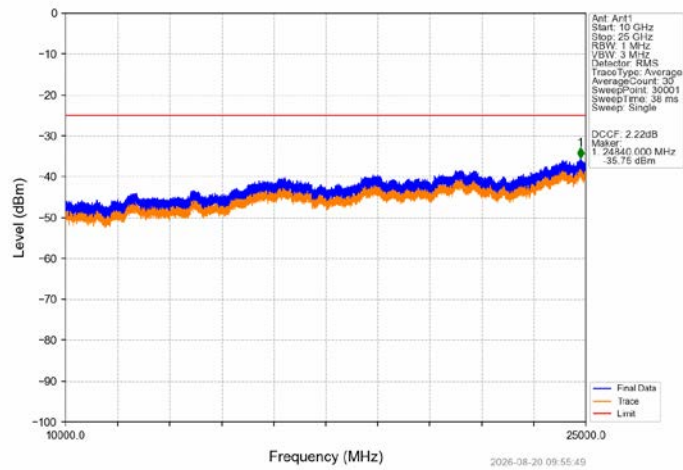
Band38_5MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



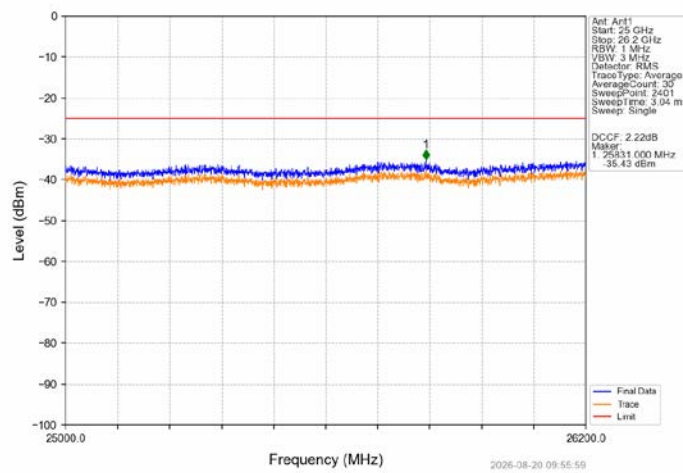
Band38 5MHz 16QAM HCH 2617.5MHz RB 1 0 NTNV



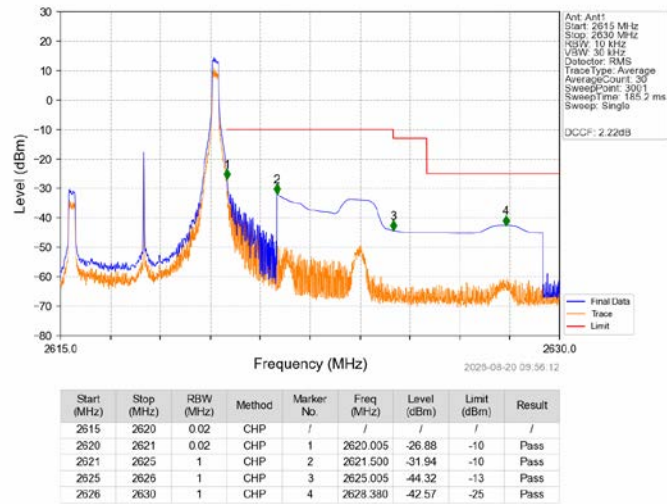
Band38 5MHz 16QAM HCH 2617.5MHz RB 1 0 NTNV



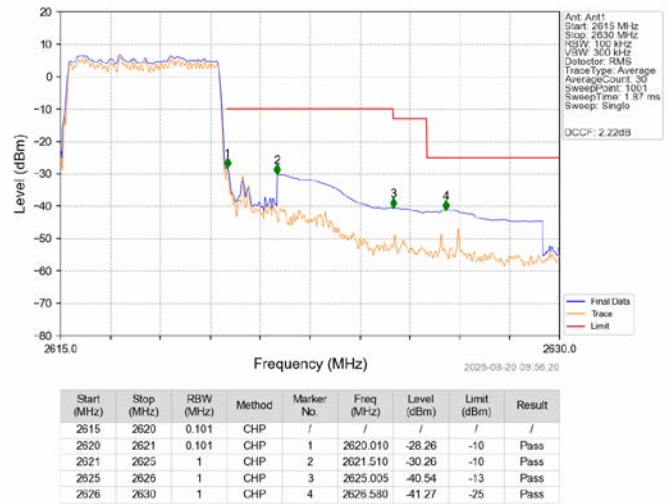
Band38 5MHz 16QAM HCH 2617.5MHz RB 1 0 NTNV



Band38 5MHz 16QAM HCH 2617.5MHz RB 1 24 NTN

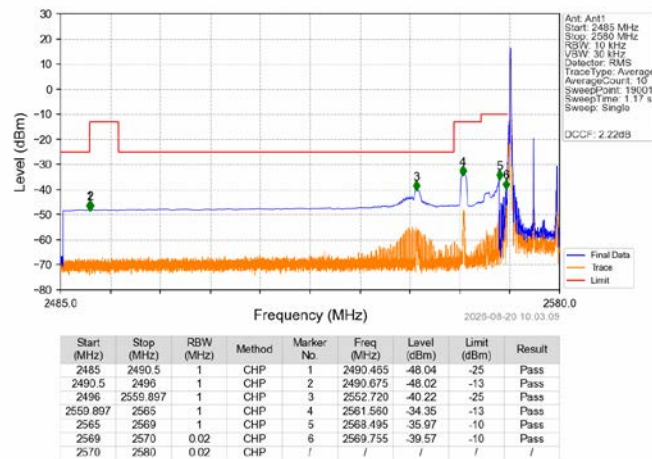


Band38 5MHz 16QAM HCH 2617.5MHz RB 25_0 NTN

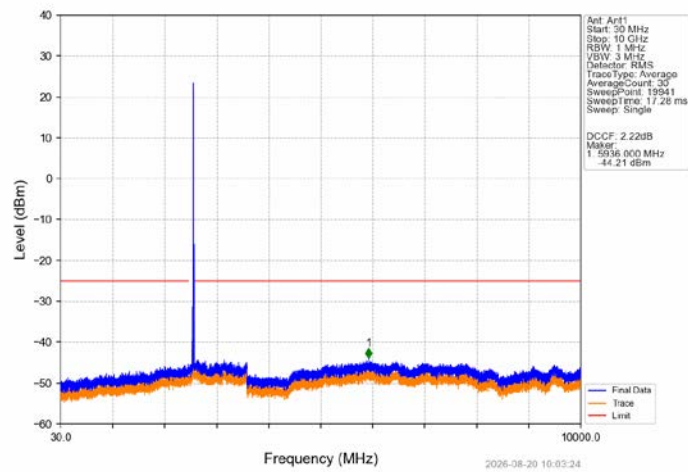


5.2.2 B38_10MHz

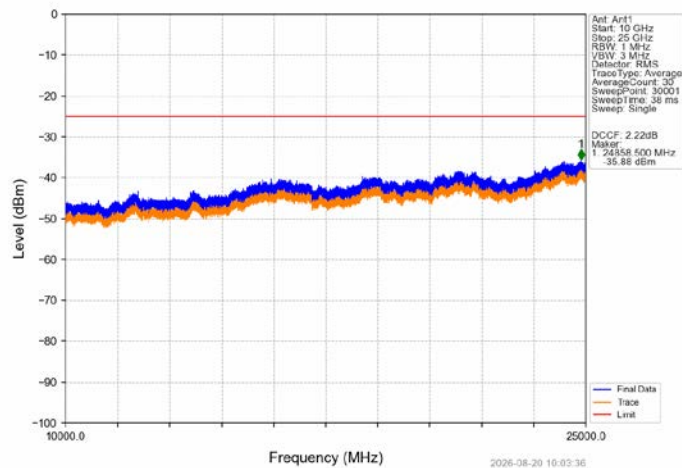
Band38 10MHz QPSK LCH 2575MHz RB 1 0 NTN



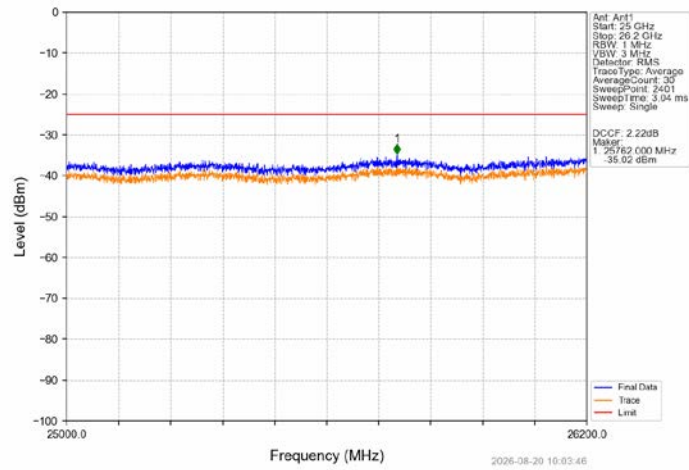
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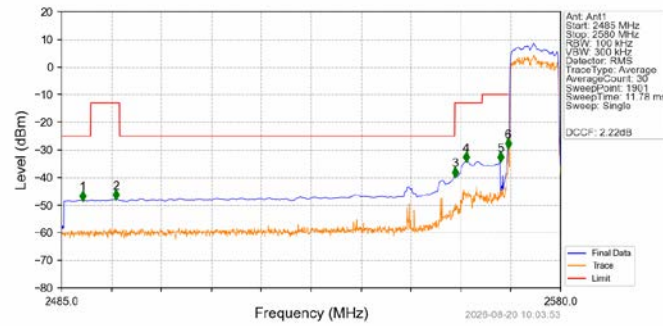
Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV



Band38 10MHz QPSK LCH 2575MHz RB 1 0 NTN

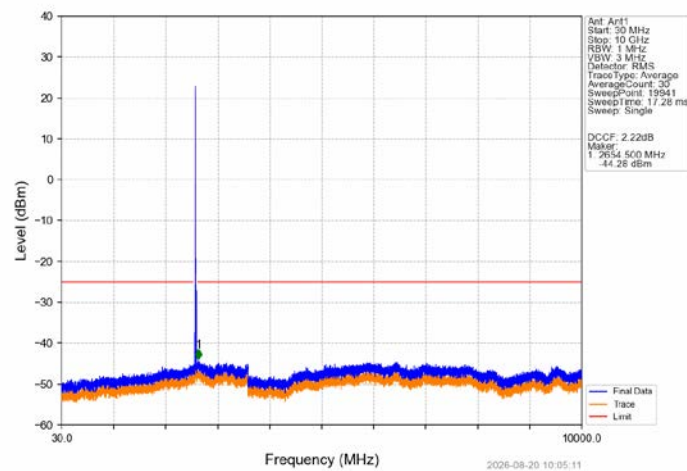


Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV

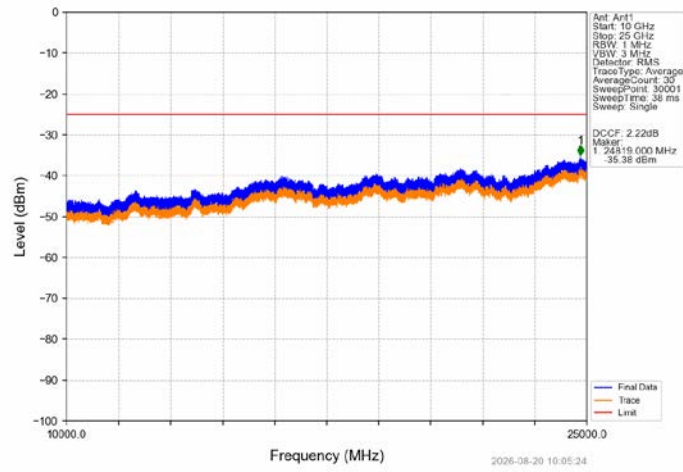


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.000	-48.20	-25	Pass
2490.5	2496	1	CHP	2	2495.350	-47.80	-13	Pass
2496	2559.897	1	CHP	3	2559.850	-39.62	-25	Pass
2559.897	2565	1	CHP	4	2562.000	-34.20	-13	Pass
2565	2569	1	CHP	5	2568.500	-34.17	-10	Pass
2569	2570	0.202	CHP	6	2569.950	-29.26	-10	Pass
2570	2580	0.202	CHP	/	/	/	/	/

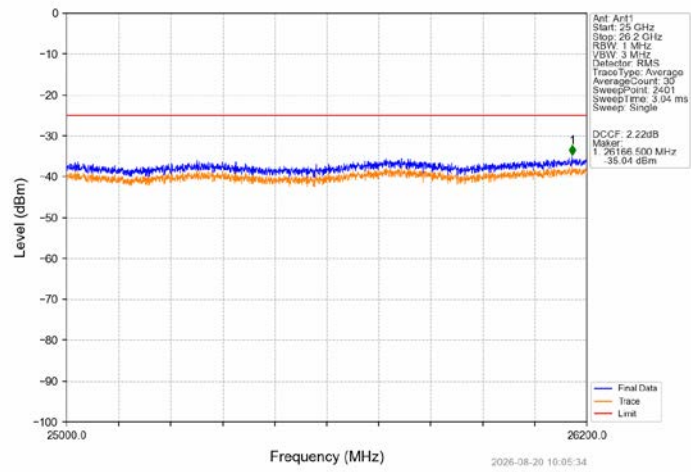
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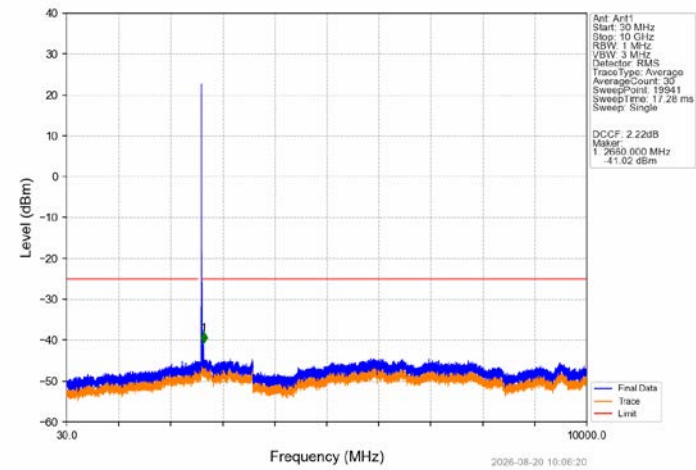
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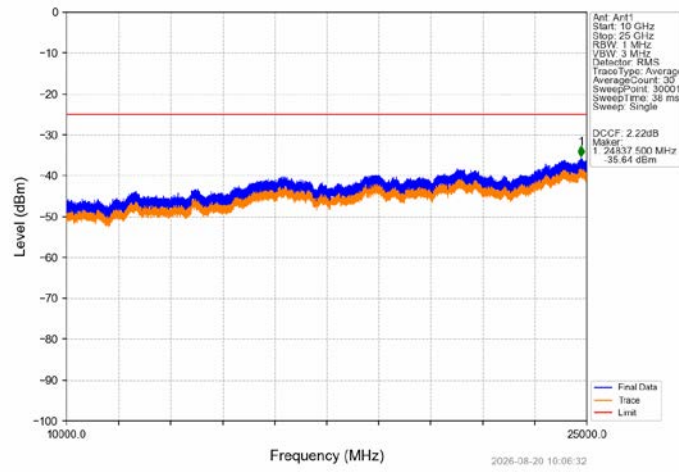
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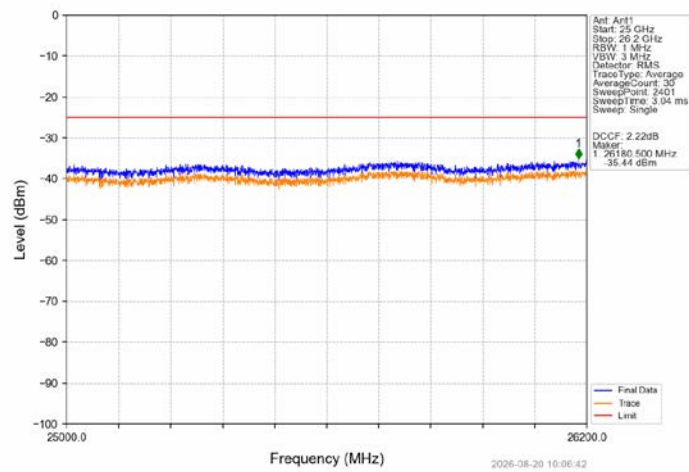
Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV



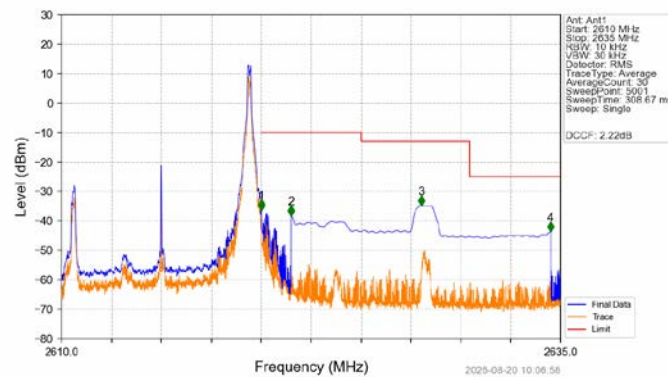
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Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV

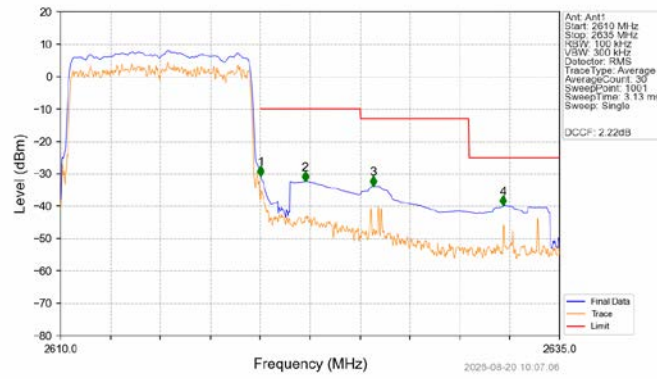


Band38_10MHz_QPSK_HCH_2615MHz_RB_1_49_NTNV

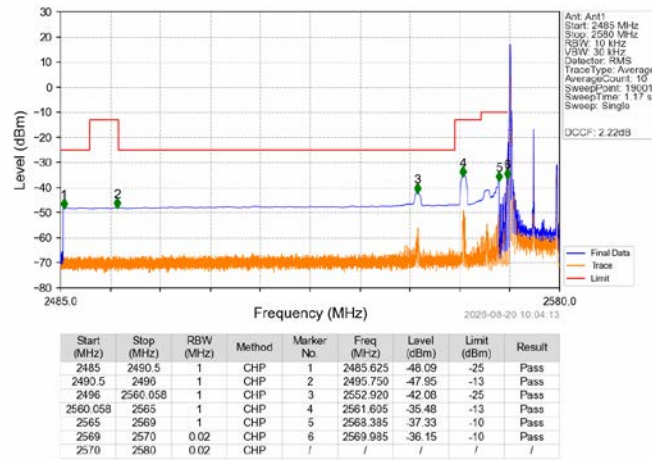


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2610	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.005	-36.23	-10	Pass
2621	2625	1	CHP	2	2621.500	-38.25	-10	Pass
2625	2630.452	1	CHP	3	2628.025	-34.77	-13	Pass
2630.452	2635	1	CHP	4	2634.490	-43.71	-25	Pass

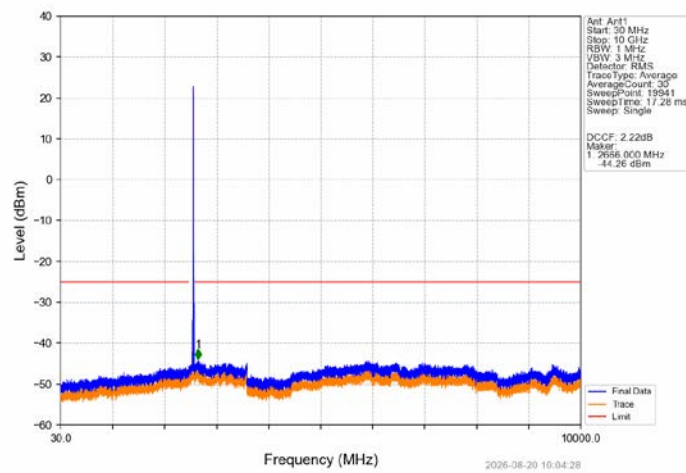
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



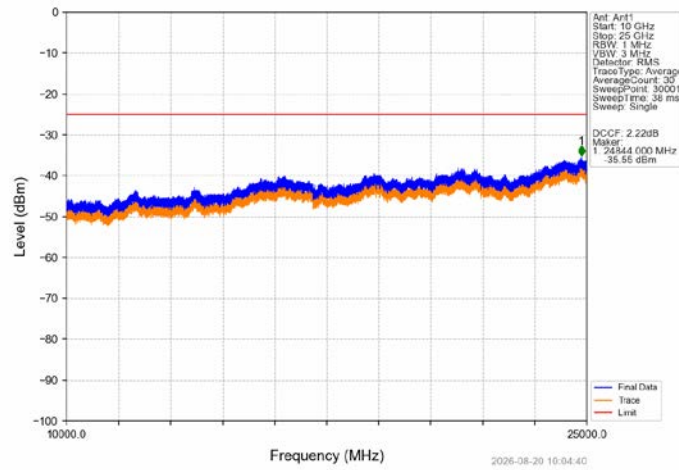
Band38_10MHz_16QAM_LCH_2575MHz_RB_1_0_NTNV



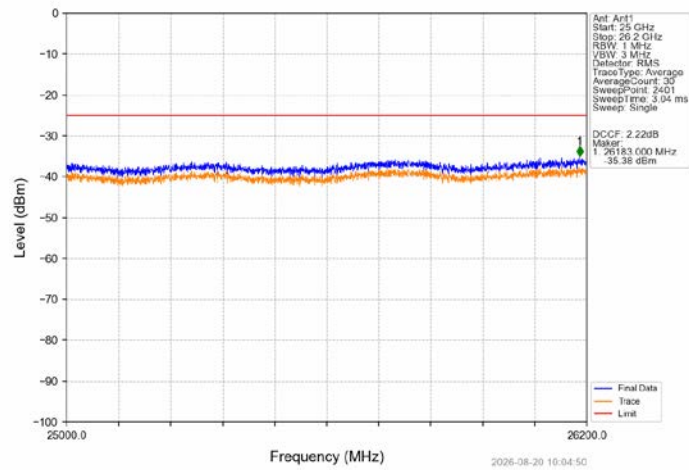
Band38_10MHz_16QAM_LCH_2575MHz_RB_1_0_NTNV



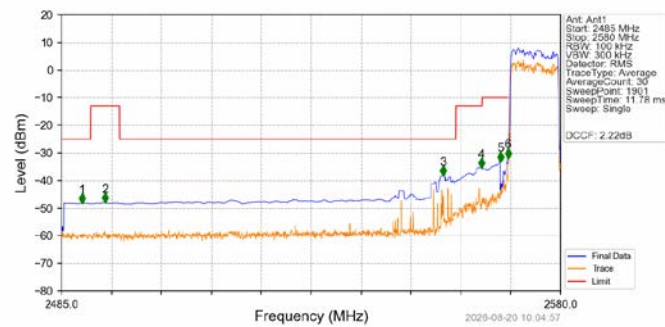
Band38_10MHz_16QAM_LCH_2575MHz_RB_1_0_NTNV



Band38_10MHz_16QAM_LCH_2575MHz_RB_1_0_NTNV

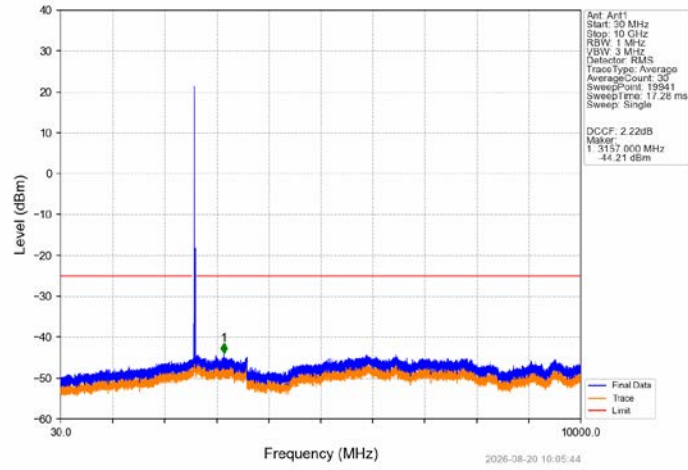


Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV

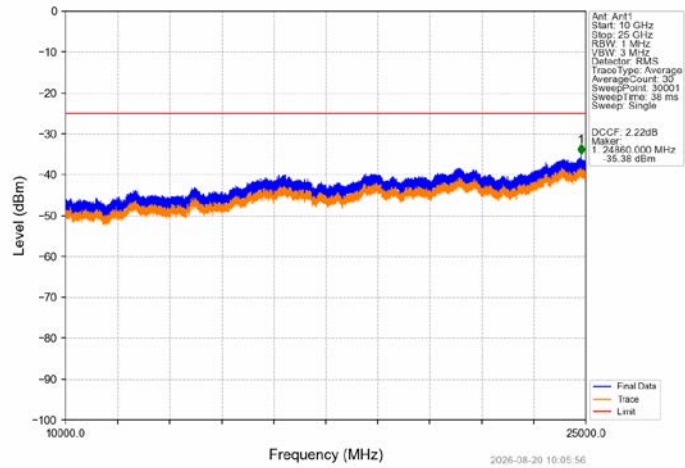


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2488.900	-48.10	-25	Pass
2490.5	2496	1	CHP	2	2493.300	-47.88	-13	Pass
2496	2560.058	1	CHP	3	2557.700	-38.09	-25	Pass
2560.058	2565	1	CHP	4	2564.900	-35.18	-13	Pass
2565	2569	1	CHP	5	2568.500	-32.97	-10	Pass
2569	2570	0.196	CHP	6	2569.950	-31.71	-10	Pass
2570	2580	0.196	CHP	/	/	/	/	/

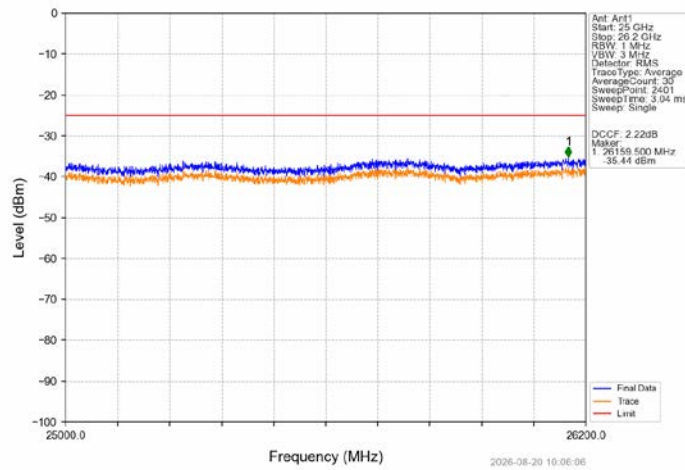
Band38_10MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



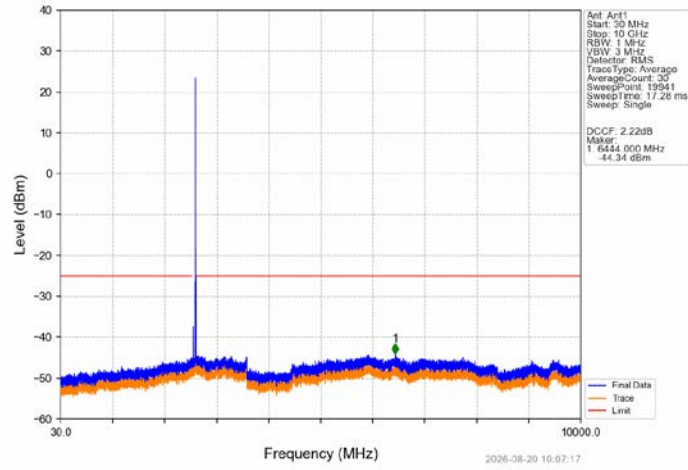
Band38_10MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



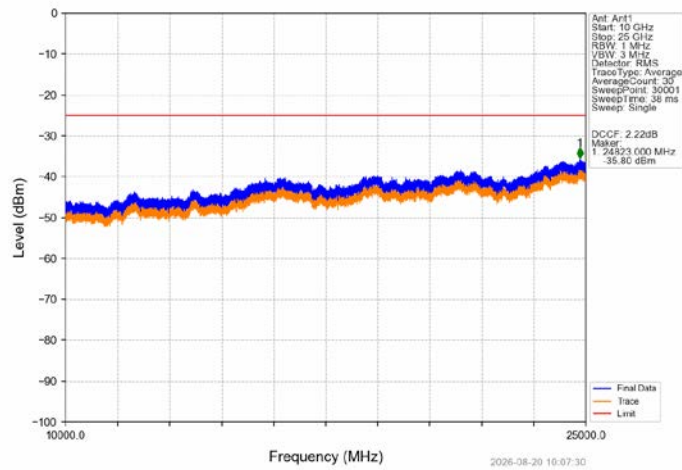
Band38_10MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



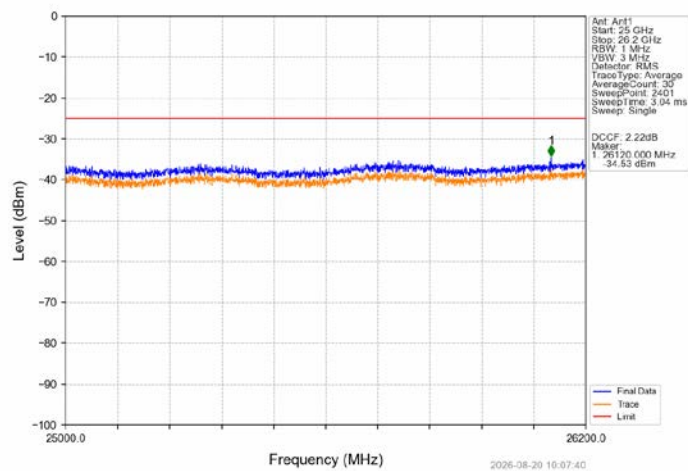
Band38_10MHz_16QAM_HCH_2615MHz_RB_1_0_NTNV



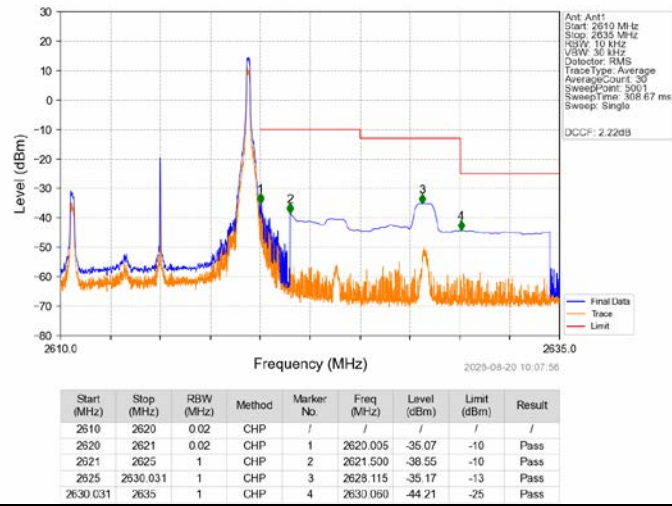
Band38_10MHz_16QAM_HCH_2615MHz_RB_1_0_NTNV



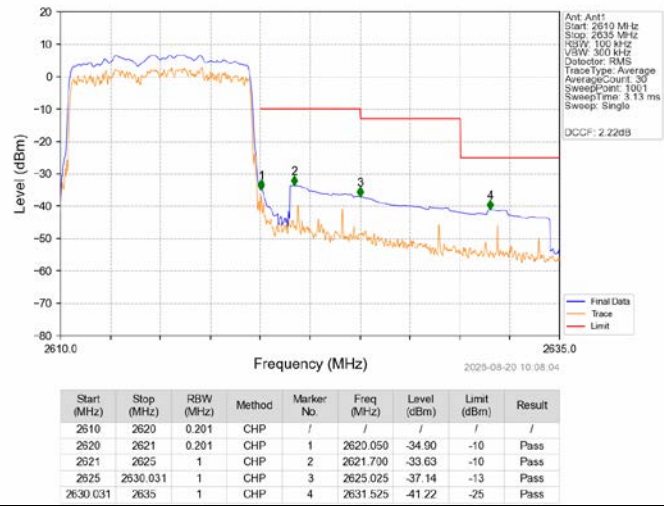
Band38_10MHz_16QAM_HCH_2615MHz_RB_1_0_NTNV



Band38 10MHz 16QAM HCH 2615MHz RB 1 49 NTNV

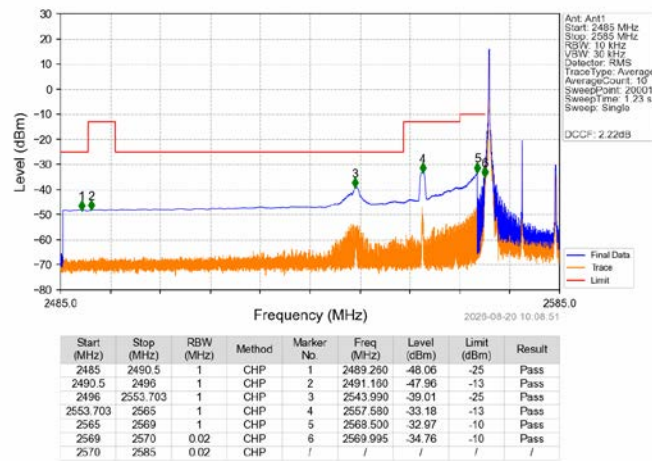


Band38 10MHz 16QAM HCH 2615MHz RB 50 0 NTNV

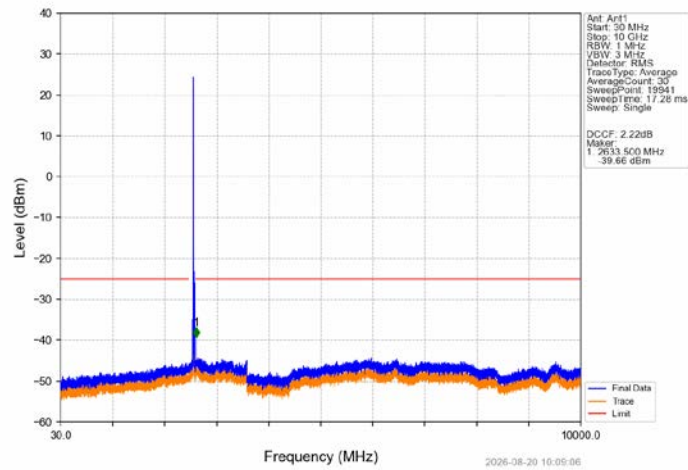


5.2.3 B38_15MHz

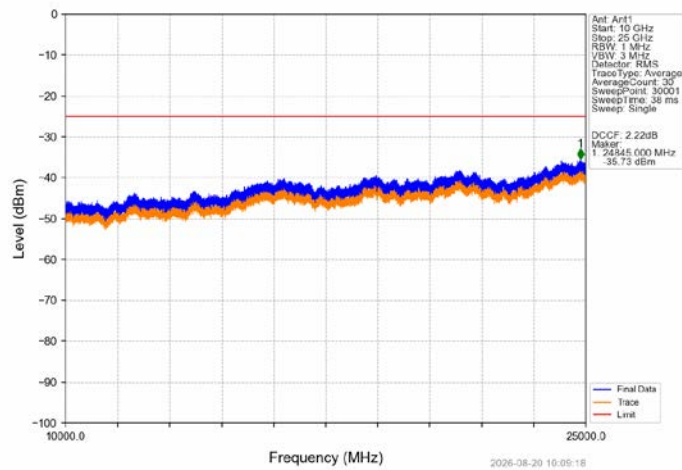
Band38 15MHz QPSK LCH 2577.5MHz RB 1 0 NTNV



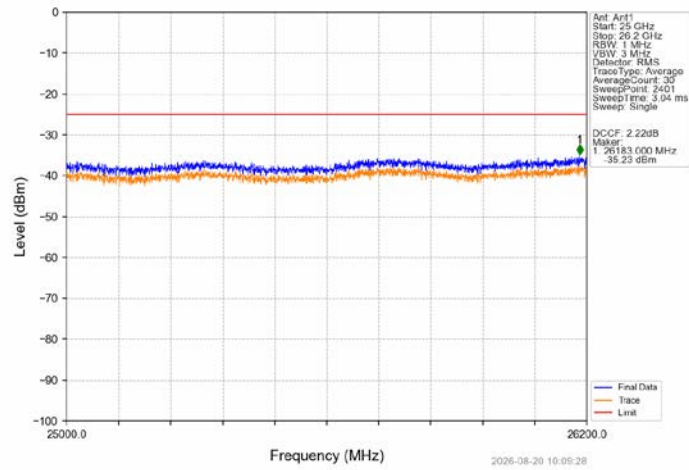
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV



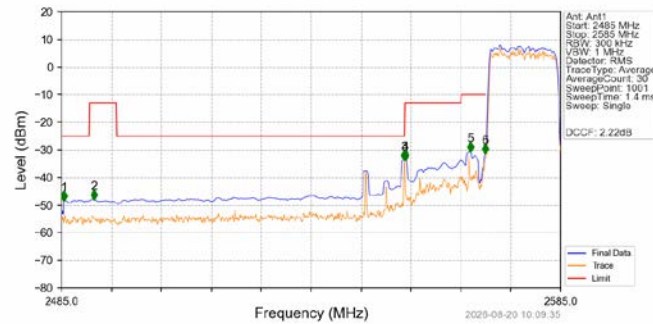
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV



Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV

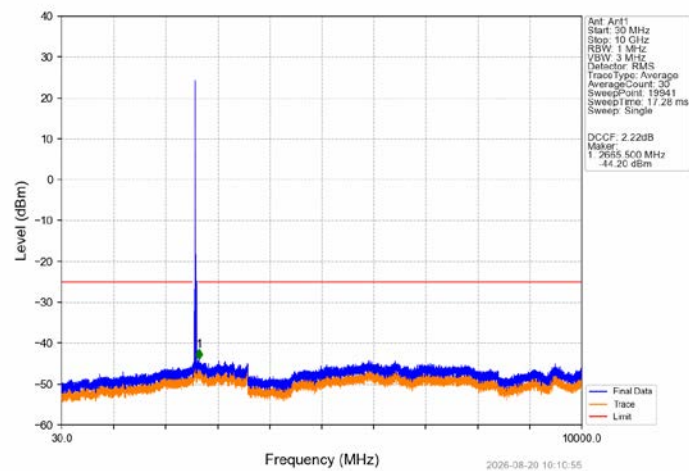


Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV

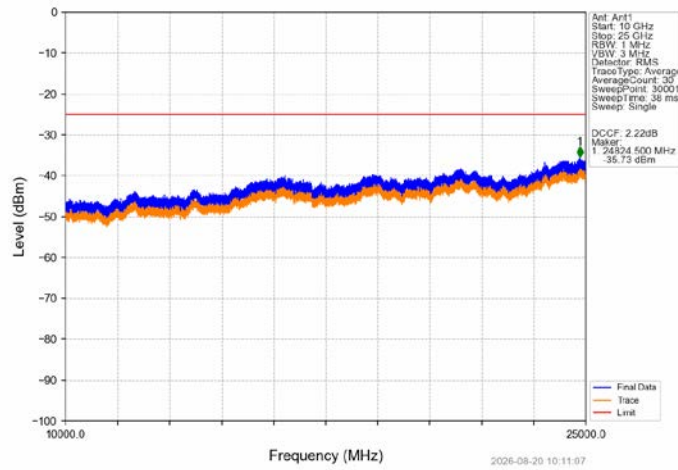


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2485.500	-48.25	-25	Pass
2490.5	2496	1	CHP	2	2491.500	-47.86	-13	Pass
2496	2553.703	1	CHP	3	2553.700	-33.57	-25	Pass
2553.703	2565	1	CHP	4	2553.900	-33.51	-13	Pass
2565	2569	1	CHP	5	2568.900	-30.51	-10	Pass
2569	2570	0.326	CHP	6	2569.900	-31.24	-10	Pass
2570	2585	0.326	CHP	/	/	/	/	/

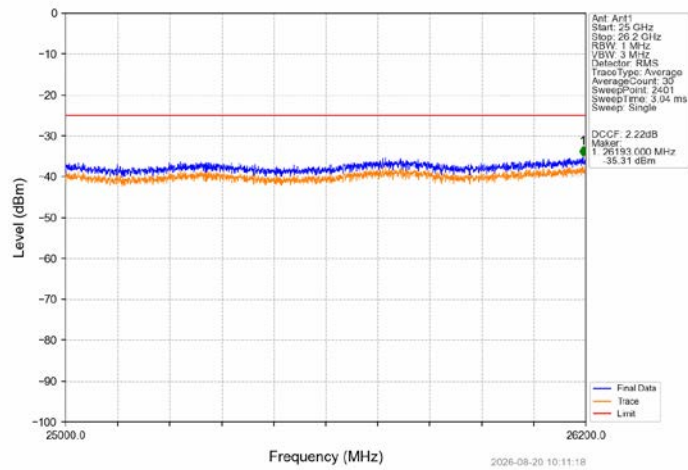
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



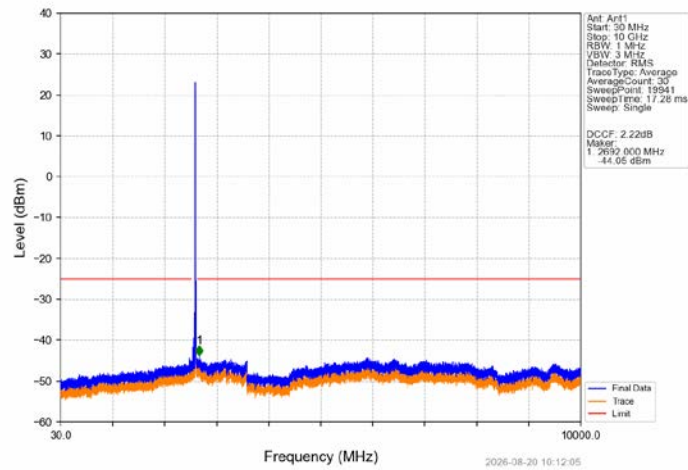
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



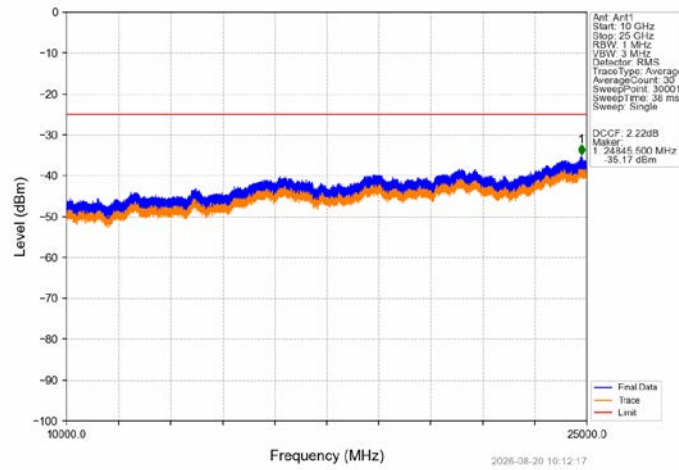
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



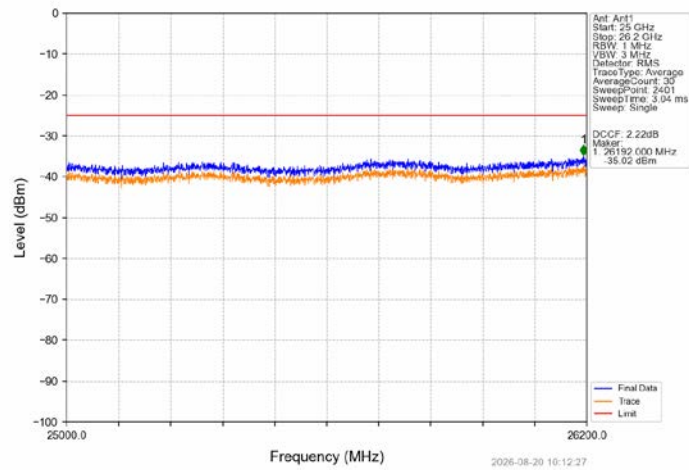
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



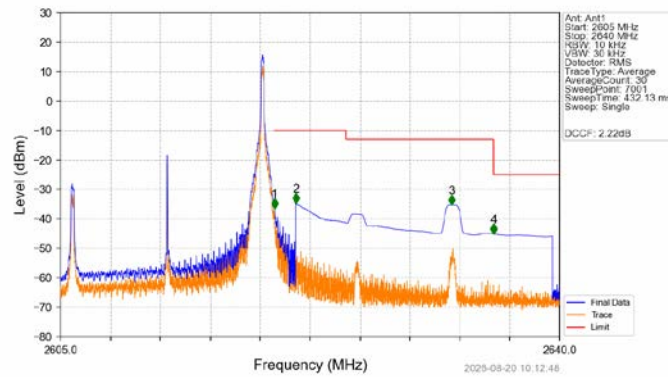
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV

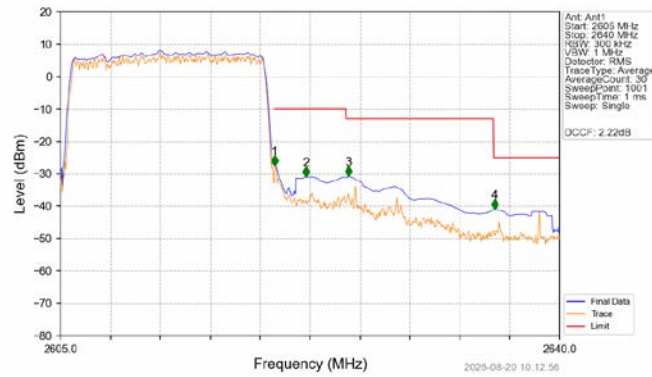


Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_74_NTNV



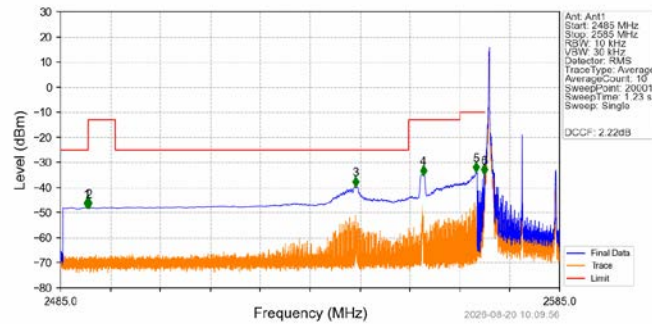
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.005	-36.53	-10	Pass
2621	2625	1	CHP	2	2621.500	-34.70	-10	Pass
2625	2635.361	1	CHP	3	2632.430	-35.28	-13	Pass
2635.361	2640	1	CHP	4	2635.375	-45.06	-25	Pass

Band38 15MHz QPSK HCH 2612.5MHz RB 75 0 NTNV



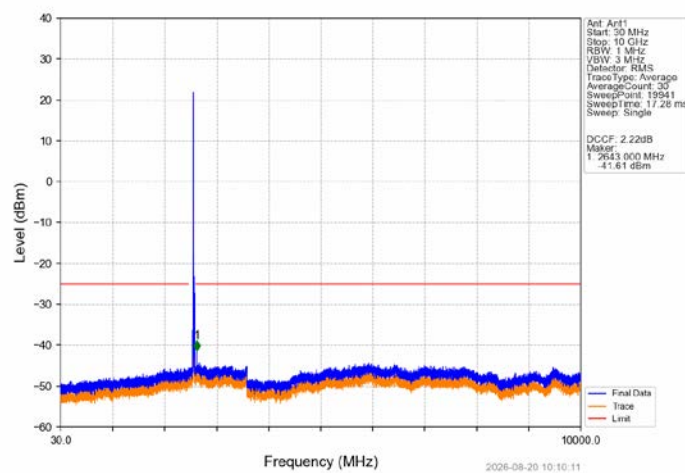
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.307	CHP	/	/	/	/	/
2620	2621	0.307	CHP	1	2620.015	-27.51	-10	Pass
2621	2625	1	CHP	2	2622.220	-30.98	-10	Pass
2625	2635.361	1	CHP	3	2625.195	-30.76	-13	Pass
2635.361	2640	1	CHP	4	2635.450	-40.93	-25	Pass

Band38 15MHz 16QAM LCH 2577.5MHz RB 1 0 NTNV

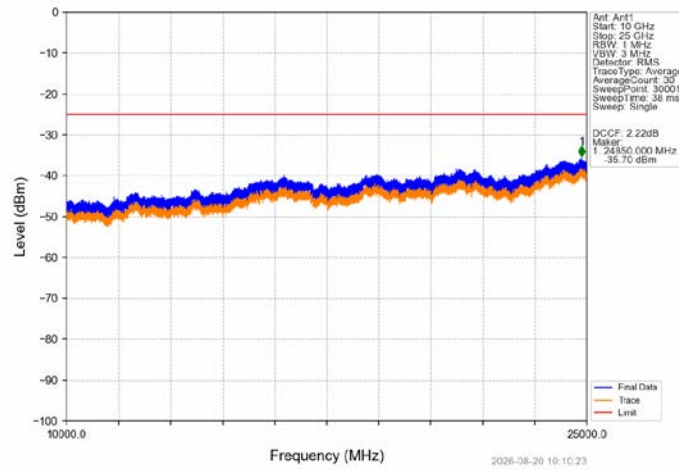


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.305	-47.94	-25	Pass
2490.5	2496	1	CHP	2	2490.690	-47.92	-13	Pass
2496	2554.758	1	CHP	3	2544.050	-39.36	-25	Pass
2554.758	2565	1	CHP	4	2557.685	-34.86	-13	Pass
2565	2569	1	CHP	5	2568.200	-33.64	-10	Pass
2569	2570	0.02	CHP	6	2569.905	-34.49	-10	Pass
2570	2585	0.02	CHP	/	/	/	/	/

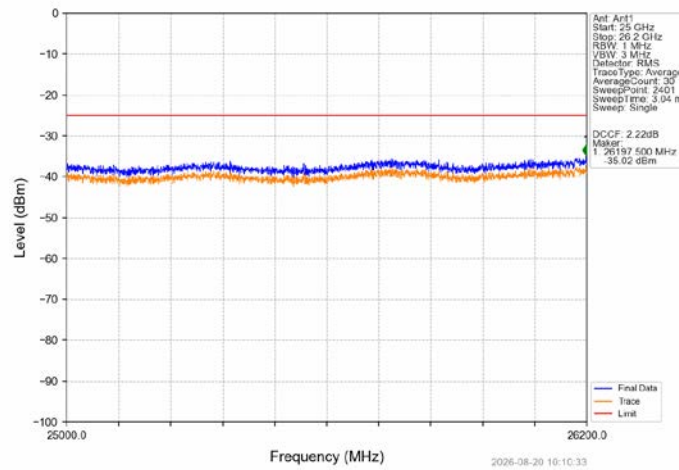
Band38 15MHz 16QAM LCH 2577.5MHz RB 1 0 NTNV



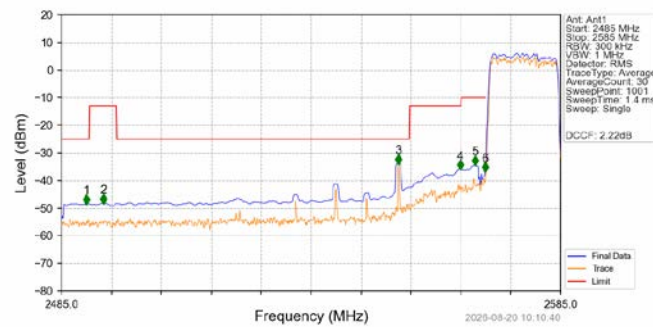
Band38 15MHz 16QAM LCH 2577.5MHz RB 1 0 NTNV



Band38 15MHz 16QAM LCH 2577.5MHz RB 1 0 NTNV

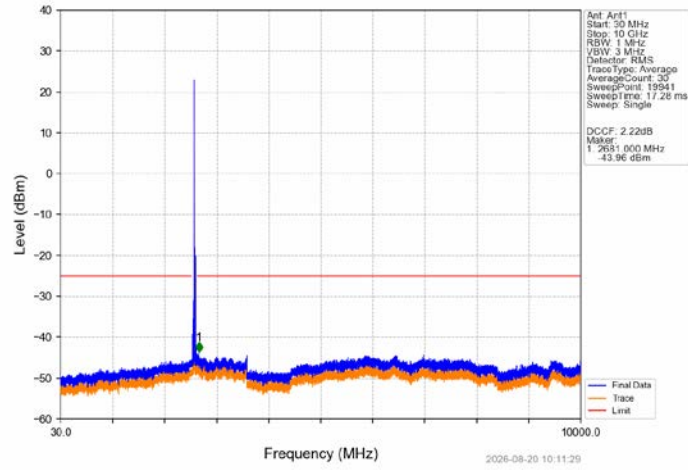


Band38 15MHz 16QAM LCH 2577.5MHz RB 75 0 NTNV

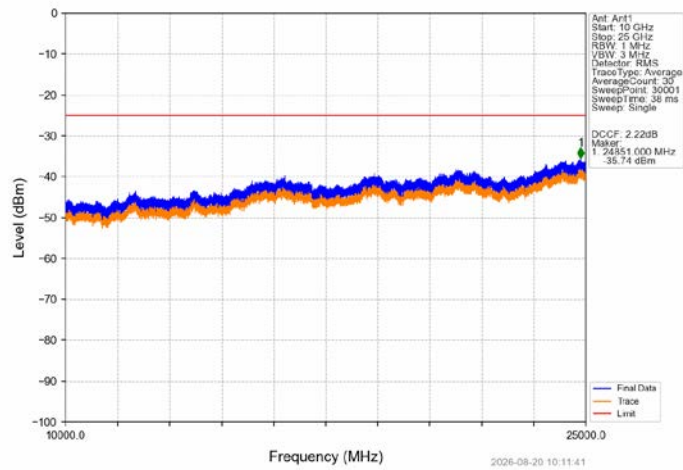


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.000	-48.40	-25	Pass
2490.5	2496	1	CHP	2	2493.400	-48.17	-13	Pass
2496	2554.758	1	CHP	3	2552.500	-33.86	-25	Pass
2554.758	2565	1	CHP	4	2564.900	-35.84	-13	Pass
2565	2569	1	CHP	5	2567.900	-34.29	-10	Pass
2569	2570	0.305	CHP	6	2569.900	-36.74	-10	Pass
2570	2585	0.305	CHP	/	/	/	/	/

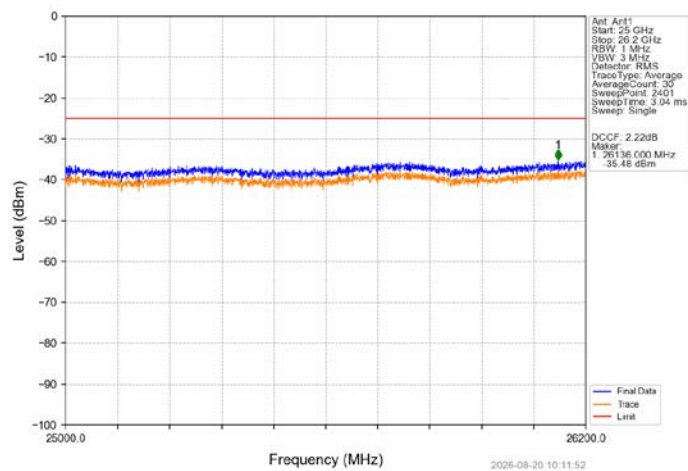
Band38_15MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



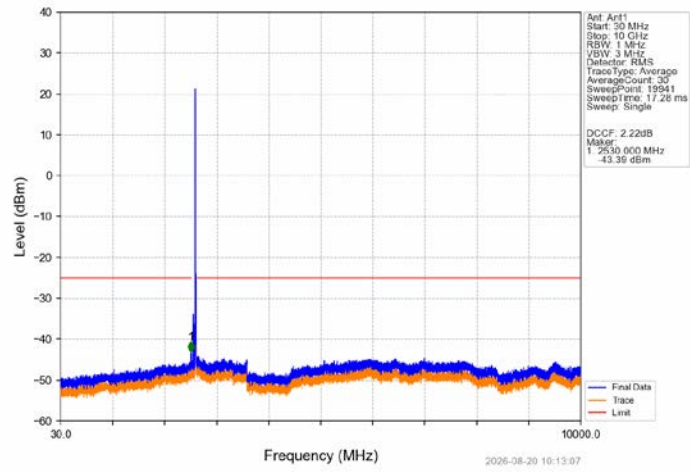
Band38_15MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



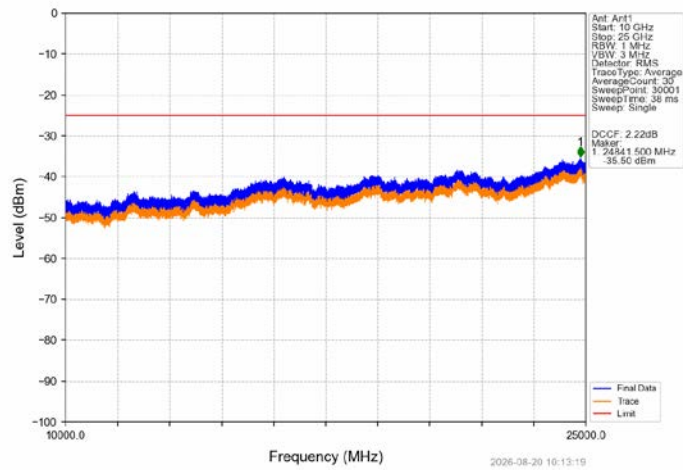
Band38_15MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



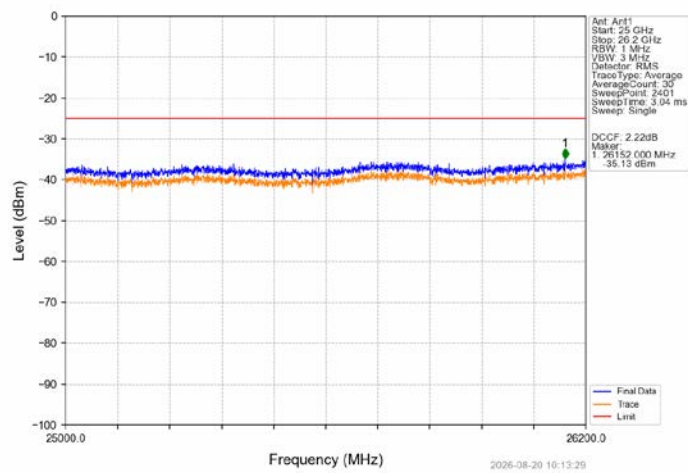
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_1_0_NTNV



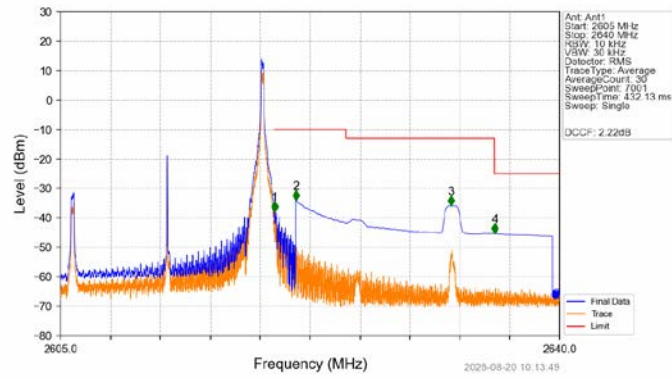
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_1_0_NTNV



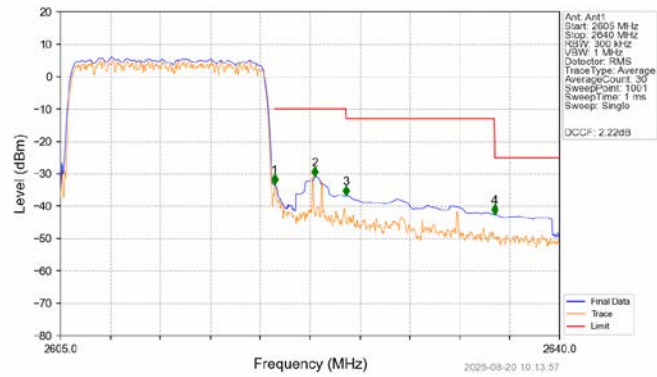
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_1_0_NTNV



Band38_15MHz_16QAM_HCH_2612.5MHz_RB_1_74_NTNV

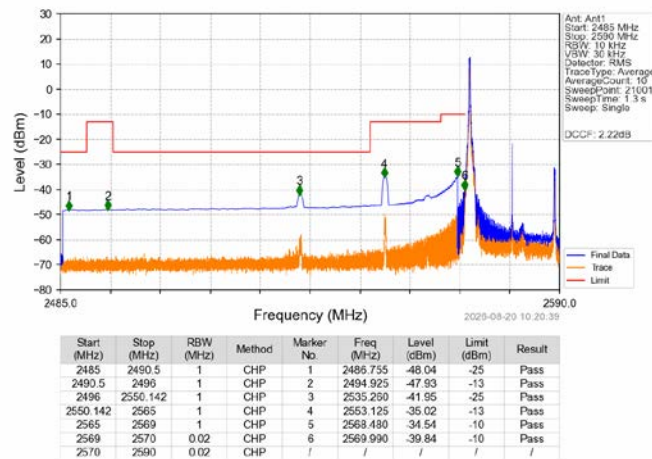


Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV

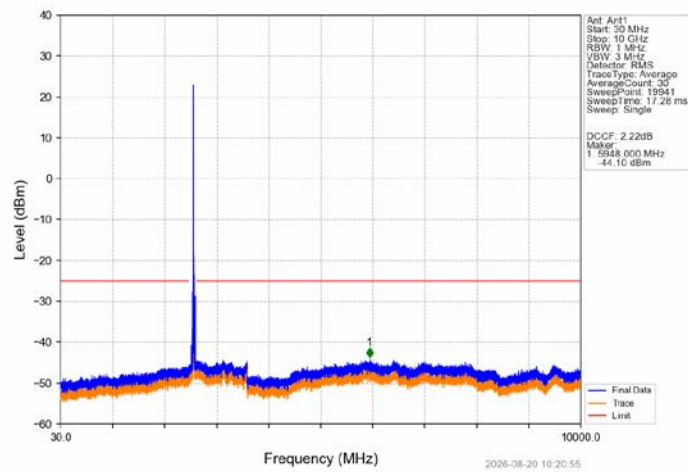


5.2.4 B38_20MHz

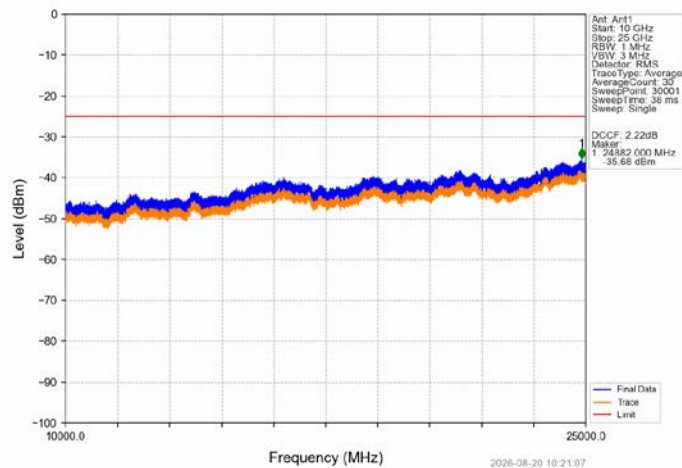
Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV



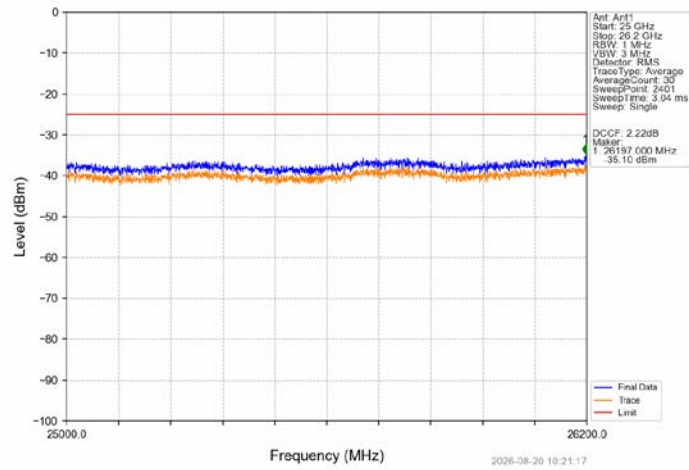
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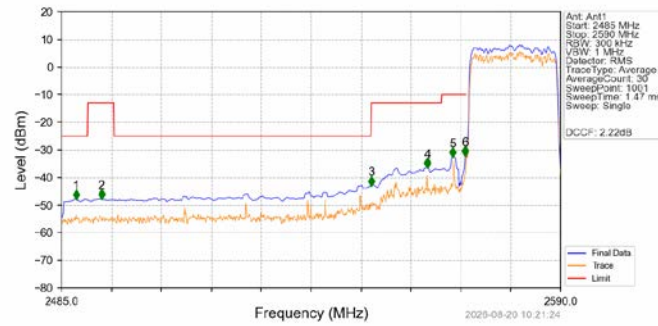
Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV



Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV

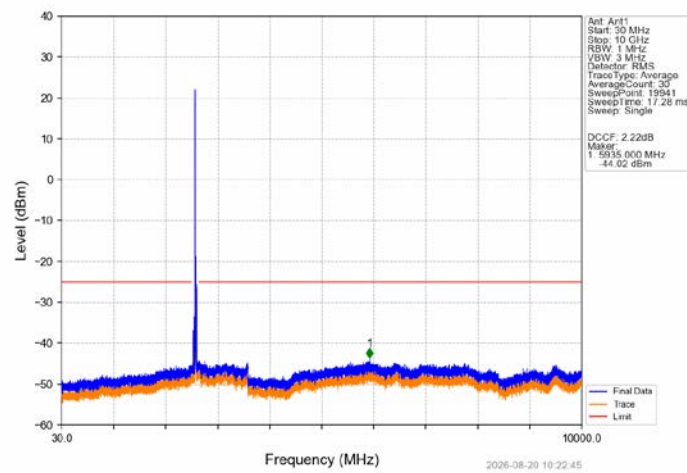


Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV

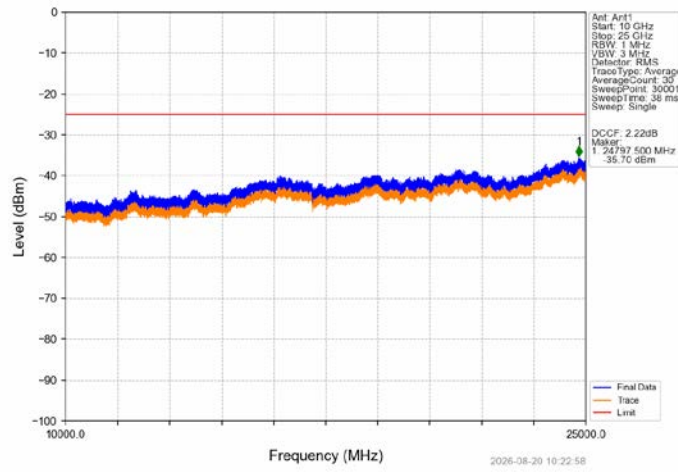


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2488.045	-47.73	-25	Pass
2490.5	2496	1	CHP	2	2493.400	-47.61	-13	Pass
2496	2550.142	1	CHP	3	2550.100	-42.81	-25	Pass
2550.142	2565	1	CHP	4	2561.955	-36.34	-13	Pass
2565	2569	1	CHP	5	2567.320	-32.44	-10	Pass
2569	2570	0.397	CHP	6	2569.945	-31.97	-10	Pass
2570	2590	0.397	CHP	/	/	/	/	/

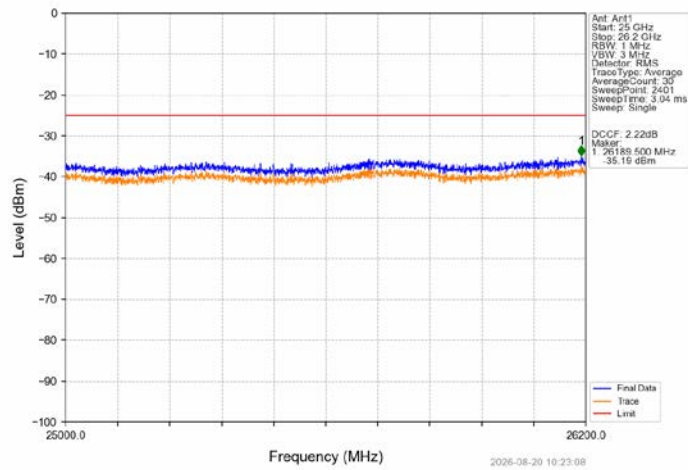
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



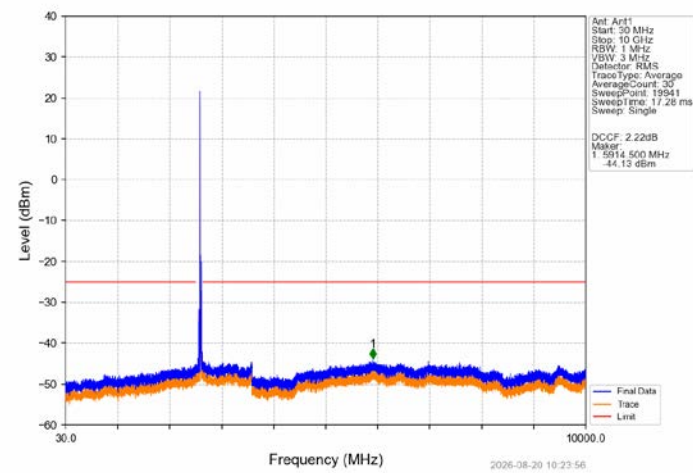
Band38 20MHz QPSK MCH 2595MHz RB 1 0 NTV



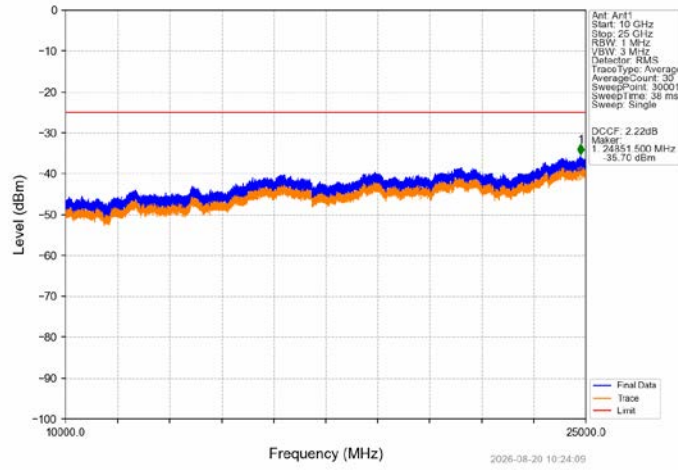
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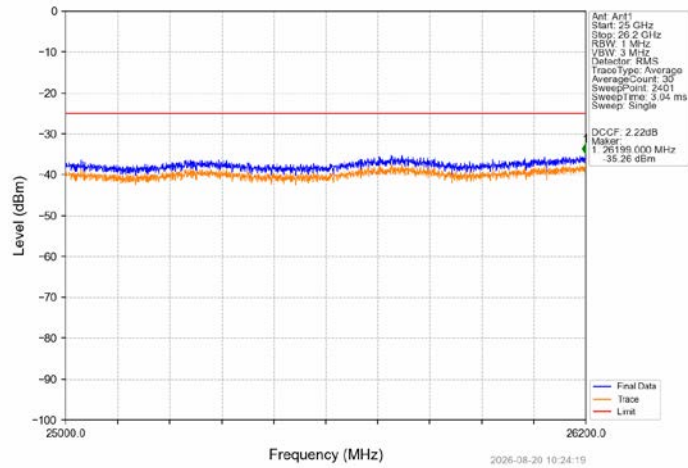
Band38 20MHz QPSK HCH 2610MHz RB 1 0 NTV



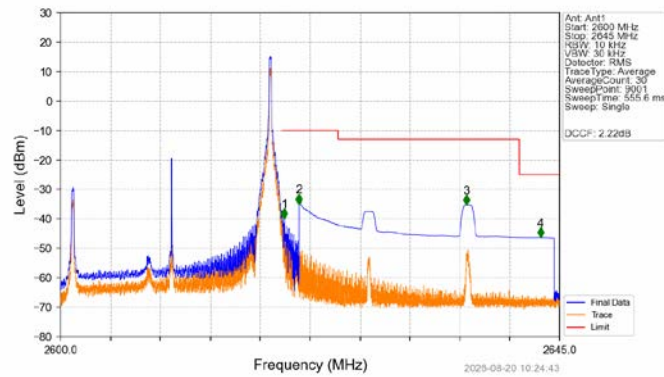
Band38 20MHz QPSK HCH 2610MHz RB 1 0 NTNV



Band38 20MHz QPSK HCH 2610MHz RB 1 0 NTNV

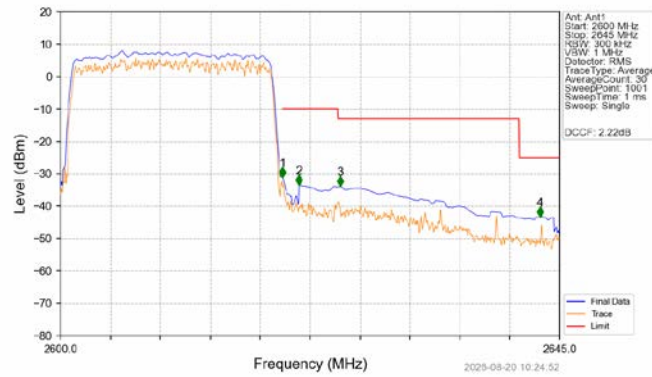


Band38 20MHz QPSK HCH 2610MHz RB 1 99 NTNV



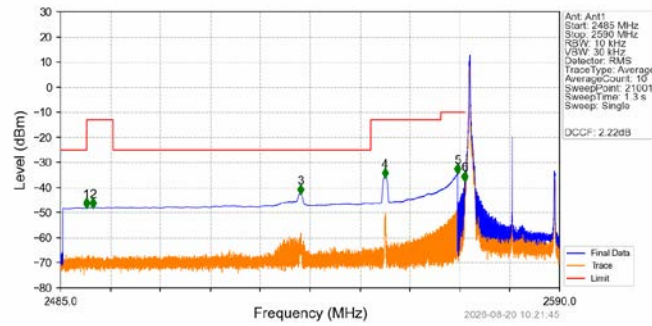
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2600	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.180	-39.01	-10	Pass
2621	2625	1	CHP	2	2621.500	-34.96	-10	Pass
2625	2641.342	1	CHP	3	2636.610	-35.32	-13	Pass
2641.342	2645	1	CHP	4	2643.285	-46.31	-25	Pass

Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTN



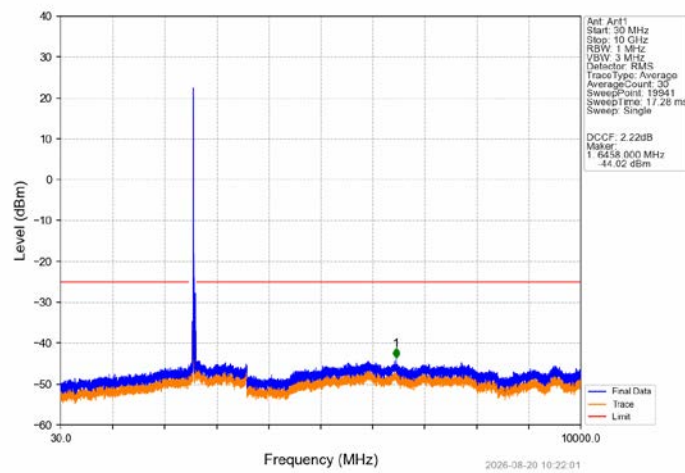
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2600	2620	0.427	CHP	/	/	/	/	/
2620	2621	0.427	CHP	1	2620.025	-31.11	-10	Pass
2621	2625	1	CHP	2	2621.510	-33.45	-10	Pass
2625	2641.342	1	CHP	3	2625.200	-33.93	-13	Pass
2641.342	2645	1	CHP	4	2643.245	-43.32	-25	Pass

Band38 20MHz 16QAM LCH 2580MHz RB 1 0 NTN

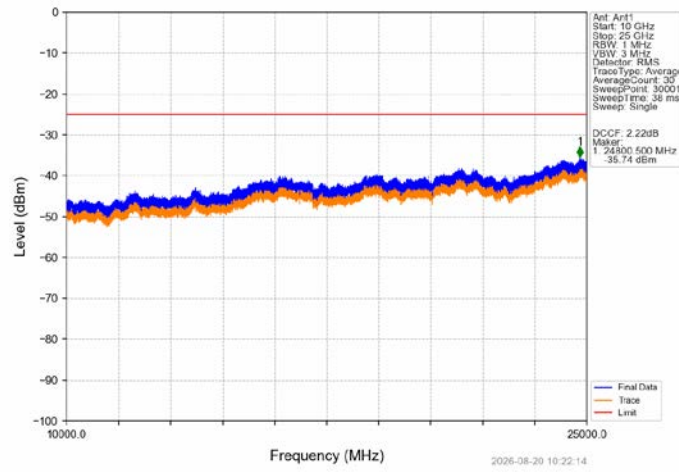


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.460	-47.98	-25	Pass
2490.5	2496	1	CHP	2	2491.795	-47.90	-13	Pass
2496	2550.294	1	CHP	3	2535.490	-42.57	-25	Pass
2550.294	2565	1	CHP	4	2553.240	-35.91	-13	Pass
2565	2569	1	CHP	5	2568.500	-34.23	-10	Pass
2569	2570	0.02	CHP	6	2569.995	-37.21	-10	Pass
2570	2590	0.02	CHP	/	/	/	/	/

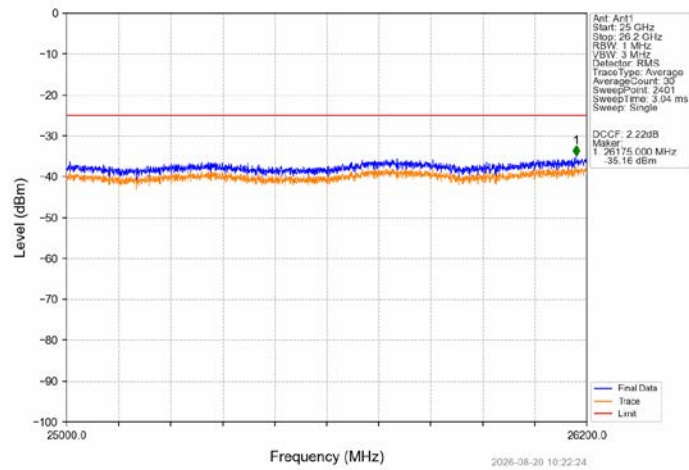
Band38 20MHz 16QAM LCH 2580MHz RB 1 0 NTN



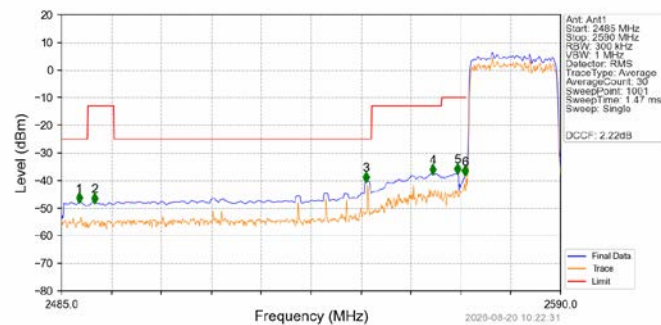
Band38_20MHz_16QAM_LCH_2580MHz_RB_1_0_NTNV



Band38_20MHz_16QAM_LCH_2580MHz_RB_1_0_NTNV

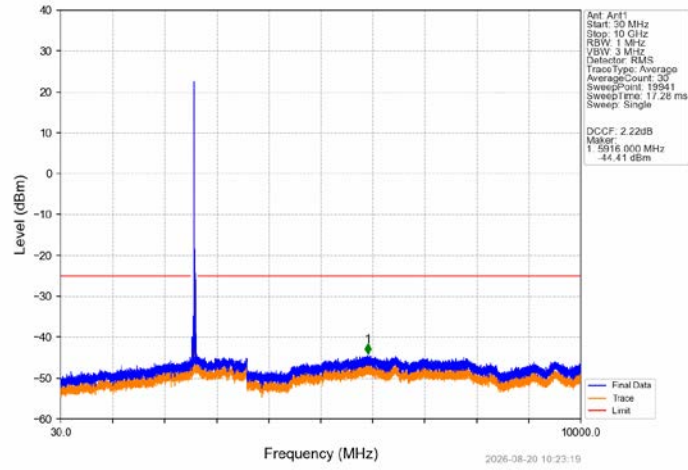


Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV

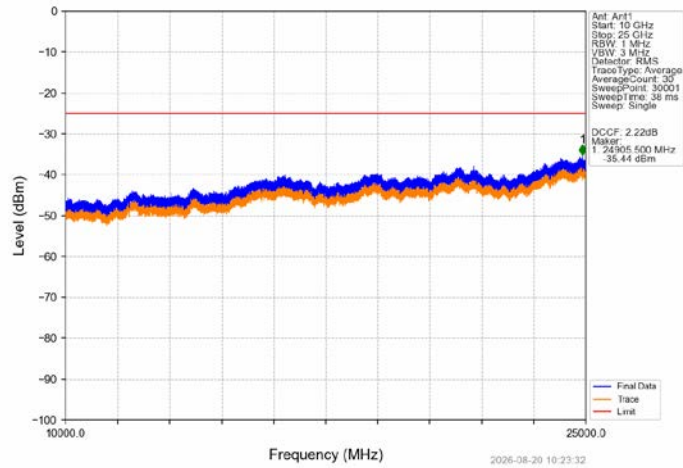


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2488.675	-47.81	-25	Pass
2490.5	2496	1	CHP	2	2491.930	-47.95	-13	Pass
2496	2550.294	1	CHP	3	2549.050	-40.27	-25	Pass
2550.294	2565	1	CHP	4	2563.120	-37.46	-13	Pass
2565	2569	1	CHP	5	2568.265	-37.30	-10	Pass
2569	2570	0.394	CHP	6	2569.945	-38.07	-10	Pass
2570	2590	0.394	CHP	/	/	/	/	/

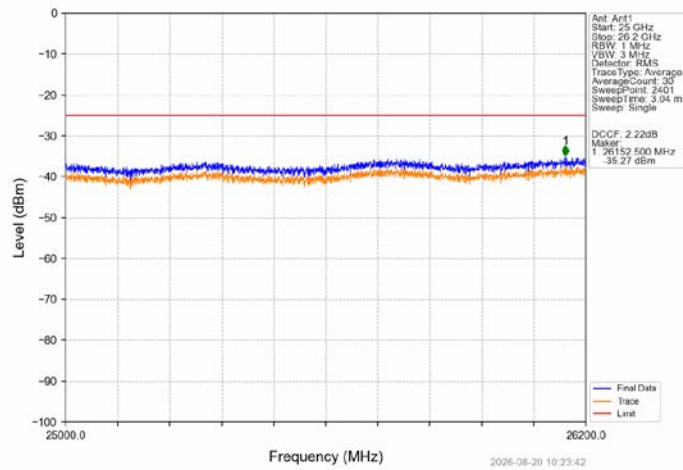
Band38_20MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



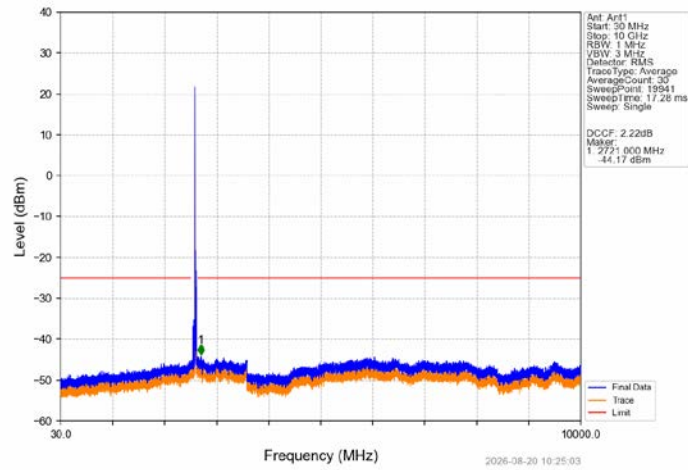
Band38_20MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



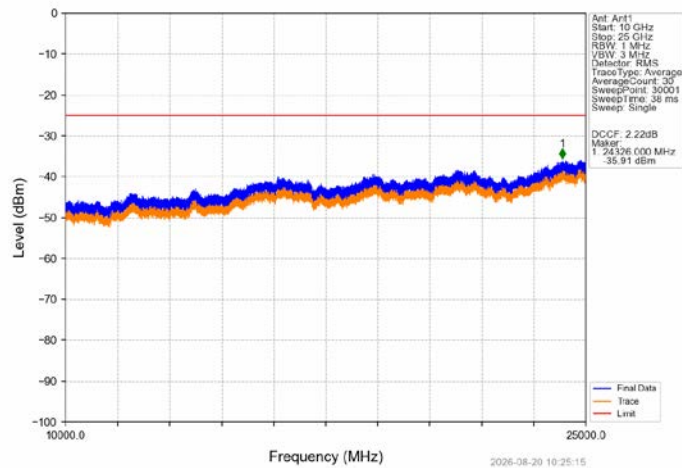
Band38_20MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



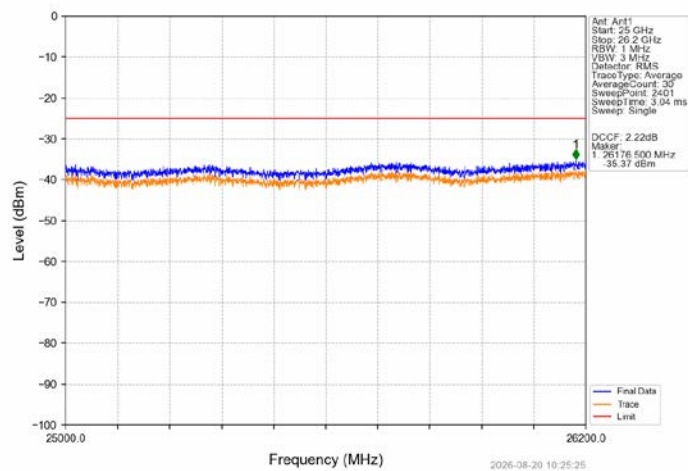
Band38_20MHz_16QAM_HCH_2610MHz_RB_1_0_NTNV



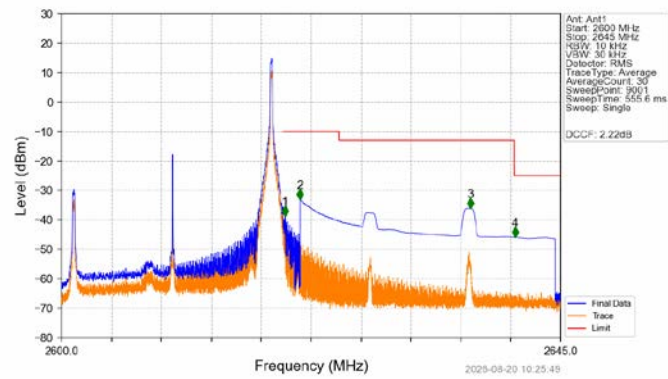
Band38_20MHz_16QAM_HCH_2610MHz_RB_1_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_1_0_NTNV



Band38 20MHz 16QAM HCH 2610MHz RB 1 99 NTNV



Band38 20MHz 16QAM HCH 2610MHz RB 100 0 NTNV

