

Appendix W for KSCR2205000668AT-FCC-LTE-Band38

1. Effective (Isotropic) Radiated Power Output Data

1.1 B38_5MHz_EIRP

1.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2572.5	1	0	21.94	0.39	22.33	<=33.01	Pass	
			13	22.17	0.39	22.56	<=33.01	Pass	
			24	22.00	0.39	22.39	<=33.01	Pass	
		12	0	20.99	0.39	21.38	<=33.01	Pass	
			6	21.16	0.39	21.55	<=33.01	Pass	
			13	21.01	0.39	21.40	<=33.01	Pass	
		25	0	21.04	0.39	21.43	<=33.01	Pass	
			1	0	22.17	0.39	22.56	<=33.01	Pass
				13	22.52	0.39	22.91	<=33.01	Pass
	24	22.35		0.39	22.74	<=33.01	Pass		
	12	0	21.41	0.39	21.80	<=33.01	Pass		
		6	21.39	0.39	21.78	<=33.01	Pass		
		13	21.37	0.39	21.76	<=33.01	Pass		
	25	0	21.39	0.39	21.78	<=33.01	Pass		
		1	0	22.56	0.39	22.95	<=33.01	Pass	
			13	22.59	0.39	22.98	<=33.01	Pass	
	24		22.44	0.39	22.83	<=33.01	Pass		
	12	0	21.61	0.39	22.00	<=33.01	Pass		
		6	21.77	0.39	22.16	<=33.01	Pass		
		13	21.62	0.39	22.01	<=33.01	Pass		
	25	0	21.65	0.39	22.04	<=33.01	Pass		
		1	0	21.21	0.39	21.60	<=33.01	Pass	
			13	21.07	0.39	21.46	<=33.01	Pass	
	24		20.69	0.39	21.08	<=33.01	Pass		
12	0	20.01	0.39	20.40	<=33.01	Pass			
	6	20.19	0.39	20.58	<=33.01	Pass			
	13	20.09	0.39	20.48	<=33.01	Pass			
25	0	20.01	0.39	20.40	<=33.01	Pass			
	1	0	21.37	0.39	21.76	<=33.01	Pass		
		13	21.81	0.39	22.20	<=33.01	Pass		
24		21.67	0.39	22.06	<=33.01	Pass			
12	0	20.27	0.39	20.66	<=33.01	Pass			
	6	20.47	0.39	20.86	<=33.01	Pass			
	13	20.41	0.39	20.80	<=33.01	Pass			
25	0	20.38	0.39	20.77	<=33.01	Pass			
	1	0	21.57	0.39	21.96	<=33.01	Pass		
		13	21.65	0.39	22.04	<=33.01	Pass		
24		21.48	0.39	21.87	<=33.01	Pass			
12	0	20.50	0.39	20.89	<=33.01	Pass			
	6	20.49	0.39	20.88	<=33.01	Pass			

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64QAM	2572.5	25	13	20.50	0.39	20.89	<=33.01	Pass	
			0	20.58	0.39	20.97	<=33.01	Pass	
		1	0	19.70	0.39	20.09	<=33.01	Pass	
			13	19.78	0.39	20.17	<=33.01	Pass	
			24	19.94	0.39	20.33	<=33.01	Pass	
	12	0	18.92	0.39	19.31	<=33.01	Pass		
		6	19.02	0.39	19.41	<=33.01	Pass		
		13	19.10	0.39	19.49	<=33.01	Pass		
	25	0	18.94	0.39	19.33	<=33.01	Pass		
	2595	1	0	20.44	0.39	20.83	<=33.01	Pass	
			13	20.66	0.39	21.05	<=33.01	Pass	
			24	20.57	0.39	20.96	<=33.01	Pass	
		12	0	19.31	0.39	19.70	<=33.01	Pass	
			6	19.45	0.39	19.84	<=33.01	Pass	
			13	19.32	0.39	19.71	<=33.01	Pass	
		25	0	19.37	0.39	19.76	<=33.01	Pass	
		2617.5	1	0	20.49	0.39	20.88	<=33.01	Pass
				13	20.24	0.39	20.63	<=33.01	Pass
	24			20.62	0.39	21.01	<=33.01	Pass	
	12		0	19.45	0.39	19.84	<=33.01	Pass	
			6	19.64	0.39	20.03	<=33.01	Pass	
			13	19.46	0.39	19.85	<=33.01	Pass	
	25		0	19.57	0.39	19.96	<=33.01	Pass	

Note1: EIRP=Conducted Power+Antenna Gain

1.2 B38_10MHz_EIRP

1.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2575	1	0	22.09	0.39	22.48	<=33.01	Pass	
			25	22.37	0.39	22.76	<=33.01	Pass	
			49	22.05	0.39	22.44	<=33.01	Pass	
		25	0	21.15	0.39	21.54	<=33.01	Pass	
			13	21.15	0.39	21.54	<=33.01	Pass	
			25	21.14	0.39	21.53	<=33.01	Pass	
		50	0	21.17	0.39	21.56	<=33.01	Pass	
		2595	1	0	22.38	0.39	22.77	<=33.01	Pass
				25	22.73	0.39	23.12	<=33.01	Pass
	49			22.60	0.39	22.99	<=33.01	Pass	
	25		0	21.39	0.39	21.78	<=33.01	Pass	
			13	21.48	0.39	21.87	<=33.01	Pass	
			25	21.58	0.39	21.97	<=33.01	Pass	
	50	0	21.50	0.39	21.89	<=33.01	Pass		
	2615	1	0	22.64	0.39	23.03	<=33.01	Pass	
			25	22.84	0.39	23.23	<=33.01	Pass	
			49	22.64	0.39	23.03	<=33.01	Pass	
		25	0	21.72	0.39	22.11	<=33.01	Pass	
			13	21.65	0.39	22.04	<=33.01	Pass	

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			25	21.67	0.39	22.06	<=33.01	Pass
		50	0	21.72	0.39	22.11	<=33.01	Pass
16QAM	2575	1	0	21.28	0.39	21.67	<=33.01	Pass
			25	21.39	0.39	21.78	<=33.01	Pass
			49	20.90	0.39	21.29	<=33.01	Pass
		25	0	20.24	0.39	20.63	<=33.01	Pass
			13	20.07	0.39	20.46	<=33.01	Pass
			25	20.24	0.39	20.63	<=33.01	Pass
	50	0	20.03	0.39	20.42	<=33.01	Pass	
	2595	1	0	21.12	0.39	21.51	<=33.01	Pass
			25	21.44	0.39	21.83	<=33.01	Pass
			49	21.45	0.39	21.84	<=33.01	Pass
		25	0	20.44	0.39	20.83	<=33.01	Pass
			13	20.46	0.39	20.85	<=33.01	Pass
			25	20.59	0.39	20.98	<=33.01	Pass
	50	0	20.45	0.39	20.84	<=33.01	Pass	
	2615	1	0	21.42	0.39	21.81	<=33.01	Pass
			25	21.99	0.39	22.38	<=33.01	Pass
			49	21.60	0.39	21.99	<=33.01	Pass
		25	0	20.69	0.39	21.08	<=33.01	Pass
13			20.68	0.39	21.07	<=33.01	Pass	
25			20.70	0.39	21.09	<=33.01	Pass	
50	0	20.62	0.39	21.01	<=33.01	Pass		
64QAM	2575	1	0	20.38	0.39	20.77	<=33.01	Pass
			25	19.76	0.39	20.15	<=33.01	Pass
			49	19.55	0.39	19.94	<=33.01	Pass
		25	0	19.03	0.39	19.42	<=33.01	Pass
			13	18.97	0.39	19.36	<=33.01	Pass
			25	19.04	0.39	19.43	<=33.01	Pass
	50	0	19.14	0.39	19.53	<=33.01	Pass	
	2595	1	0	20.76	0.39	21.15	<=33.01	Pass
			25	21.02	0.39	21.41	<=33.01	Pass
			49	20.57	0.39	20.96	<=33.01	Pass
		25	0	19.29	0.39	19.68	<=33.01	Pass
			13	19.37	0.39	19.76	<=33.01	Pass
			25	19.39	0.39	19.78	<=33.01	Pass
	50	0	19.35	0.39	19.74	<=33.01	Pass	
	2615	1	0	20.75	0.39	21.14	<=33.01	Pass
			25	20.47	0.39	20.86	<=33.01	Pass
			49	20.67	0.39	21.06	<=33.01	Pass
		25	0	19.56	0.39	19.95	<=33.01	Pass
			13	19.58	0.39	19.97	<=33.01	Pass
			25	19.53	0.39	19.92	<=33.01	Pass
	50	0	19.53	0.39	19.92	<=33.01	Pass	

Note1: EIRP=Conducted Power+Antenna Gain

1.3 B38_15MHz_EIRP

1.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTNV



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Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2577.5	1	0	22.03	0.39	22.42	<=33.01	Pass		
			38	22.13	0.39	22.52	<=33.01	Pass		
			74	22.08	0.39	22.47	<=33.01	Pass		
		36	0	21.10	0.39	21.49	<=33.01	Pass		
			18	21.08	0.39	21.47	<=33.01	Pass		
			39	21.20	0.39	21.59	<=33.01	Pass		
		75	0	21.08	0.39	21.47	<=33.01	Pass		
		2595	1	0	22.17	0.39	22.56	<=33.01	Pass	
				38	22.47	0.39	22.86	<=33.01	Pass	
	74			22.49	0.39	22.88	<=33.01	Pass		
	36		0	21.47	0.39	21.86	<=33.01	Pass		
			18	21.52	0.39	21.91	<=33.01	Pass		
			39	21.53	0.39	21.92	<=33.01	Pass		
	75		0	21.49	0.39	21.88	<=33.01	Pass		
	2612.5		1	0	22.52	0.39	22.91	<=33.01	Pass	
				38	22.71	0.39	23.10	<=33.01	Pass	
		74		22.46	0.39	22.85	<=33.01	Pass		
		36	0	21.62	0.39	22.01	<=33.01	Pass		
			18	21.72	0.39	22.11	<=33.01	Pass		
			39	21.61	0.39	22.00	<=33.01	Pass		
		75	0	21.62	0.39	22.01	<=33.01	Pass		
		16QAM	2577.5	1	0	21.15	0.39	21.54	<=33.01	Pass
					38	20.90	0.39	21.29	<=33.01	Pass
	74				20.84	0.39	21.23	<=33.01	Pass	
36	0			20.09	0.39	20.48	<=33.01	Pass		
	18			20.14	0.39	20.53	<=33.01	Pass		
	39			20.08	0.39	20.47	<=33.01	Pass		
75	0			20.07	0.39	20.46	<=33.01	Pass		
2595	1			0	21.16	0.39	21.55	<=33.01	Pass	
				38	21.26	0.39	21.65	<=33.01	Pass	
			74	21.19	0.39	21.58	<=33.01	Pass		
	36		0	20.26	0.39	20.65	<=33.01	Pass		
			18	20.47	0.39	20.86	<=33.01	Pass		
			39	20.51	0.39	20.90	<=33.01	Pass		
	75		0	20.39	0.39	20.78	<=33.01	Pass		
	2612.5		1	0	21.58	0.39	21.97	<=33.01	Pass	
				38	21.66	0.39	22.05	<=33.01	Pass	
74				21.21	0.39	21.60	<=33.01	Pass		
36			0	20.66	0.39	21.05	<=33.01	Pass		
			18	20.66	0.39	21.05	<=33.01	Pass		
			39	20.61	0.39	21.00	<=33.01	Pass		
75			0	20.61	0.39	21.00	<=33.01	Pass		
64QAM			2577.5	1	0	20.26	0.39	20.65	<=33.01	Pass
					38	19.80	0.39	20.19	<=33.01	Pass
	74				19.71	0.39	20.10	<=33.01	Pass	
	36	0		19.06	0.39	19.45	<=33.01	Pass		
		18		19.14	0.39	19.53	<=33.01	Pass		
		39		19.13	0.39	19.52	<=33.01	Pass		
	75	0		19.02	0.39	19.41	<=33.01	Pass		
	2595	1		0	20.24	0.39	20.63	<=33.01	Pass	
				38	20.07	0.39	20.46	<=33.01	Pass	

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	36	74	20.03	0.39	20.42	<=33.01	Pass	
		0	19.37	0.39	19.76	<=33.01	Pass	
		18	19.36	0.39	19.75	<=33.01	Pass	
		39	19.38	0.39	19.77	<=33.01	Pass	
	75	0	19.34	0.39	19.73	<=33.01	Pass	
	1	0	20.77	0.39	21.16	<=33.01	Pass	
		38	20.51	0.39	20.90	<=33.01	Pass	
		74	20.33	0.39	20.72	<=33.01	Pass	
		0	19.55	0.39	19.94	<=33.01	Pass	
	36	18	19.61	0.39	20.00	<=33.01	Pass	
		39	19.52	0.39	19.91	<=33.01	Pass	
		75	0	19.67	0.39	20.06	<=33.01	Pass
	Note1: EIRP=Conducted Power+Antenna Gain							

1.4 B38_20MHz_EIRP

1.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2580	1	0	21.89	0.39	22.28	<=33.01	Pass	
			50	22.33	0.39	22.72	<=33.01	Pass	
			99	22.07	0.39	22.46	<=33.01	Pass	
		50	0	21.09	0.39	21.48	<=33.01	Pass	
			25	21.17	0.39	21.56	<=33.01	Pass	
			50	21.26	0.39	21.65	<=33.01	Pass	
	100	0	21.10	0.39	21.49	<=33.01	Pass		
	2595	1	0	22.05	0.39	22.44	<=33.01	Pass	
			50	22.63	0.39	23.02	<=33.01	Pass	
			99	22.34	0.39	22.73	<=33.01	Pass	
		50	0	21.24	0.39	21.63	<=33.01	Pass	
			25	21.47	0.39	21.86	<=33.01	Pass	
			50	21.48	0.39	21.87	<=33.01	Pass	
	100	0	21.46	0.39	21.85	<=33.01	Pass		
	2610	1	0	22.32	0.39	22.71	<=33.01	Pass	
			50	22.74	0.39	23.13	<=33.01	Pass	
			99	22.30	0.39	22.69	<=33.01	Pass	
		50	0	21.65	0.39	22.04	<=33.01	Pass	
			25	21.73	0.39	22.12	<=33.01	Pass	
			50	21.68	0.39	22.07	<=33.01	Pass	
	100	0	21.63	0.39	22.02	<=33.01	Pass		
	16QAM	2580	1	0	20.89	0.39	21.28	<=33.01	Pass
				50	21.26	0.39	21.65	<=33.01	Pass
				99	21.00	0.39	21.39	<=33.01	Pass
50			0	20.10	0.39	20.49	<=33.01	Pass	
			25	20.18	0.39	20.57	<=33.01	Pass	
			50	20.24	0.39	20.63	<=33.01	Pass	
100		0	20.06	0.39	20.45	<=33.01	Pass		
2595		1	0	21.21	0.39	21.60	<=33.01	Pass	
			50	21.34	0.39	21.73	<=33.01	Pass	

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64QAM	2610	50	99	21.54	0.39	21.93	<=33.01	Pass	
			0	20.22	0.39	20.61	<=33.01	Pass	
			25	20.44	0.39	20.83	<=33.01	Pass	
		100	50	20.57	0.39	20.96	<=33.01	Pass	
			0	20.38	0.39	20.77	<=33.01	Pass	
			0	20.99	0.39	21.38	<=33.01	Pass	
	2580	1	50	21.74	0.39	22.13	<=33.01	Pass	
			99	21.33	0.39	21.72	<=33.01	Pass	
			0	20.54	0.39	20.93	<=33.01	Pass	
		50	25	20.59	0.39	20.98	<=33.01	Pass	
			50	20.69	0.39	21.08	<=33.01	Pass	
			0	20.60	0.39	20.99	<=33.01	Pass	
	2595	1	0	19.51	0.39	19.90	<=33.01	Pass	
			50	19.98	0.39	20.37	<=33.01	Pass	
			99	20.01	0.39	20.40	<=33.01	Pass	
		50	0	18.85	0.39	19.24	<=33.01	Pass	
			25	19.19	0.39	19.58	<=33.01	Pass	
			50	19.25	0.39	19.64	<=33.01	Pass	
		100	0	19.17	0.39	19.56	<=33.01	Pass	
			0	19.47	0.39	19.86	<=33.01	Pass	
			50	20.26	0.39	20.65	<=33.01	Pass	
		2610	1	99	19.85	0.39	20.24	<=33.01	Pass
				0	19.23	0.39	19.62	<=33.01	Pass
				25	19.42	0.39	19.81	<=33.01	Pass
50	50		19.57	0.39	19.96	<=33.01	Pass		
	0		19.39	0.39	19.78	<=33.01	Pass		
	0		20.39	0.39	20.78	<=33.01	Pass		
2610	1	50	20.79	0.39	21.18	<=33.01	Pass		
		99	20.07	0.39	20.46	<=33.01	Pass		
		0	19.55	0.39	19.94	<=33.01	Pass		
	50	25	19.76	0.39	20.15	<=33.01	Pass		
		50	19.70	0.39	20.09	<=33.01	Pass		
		0	19.59	0.39	19.98	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 B38_5MHz

2.1.1 Test Result

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	20	3.46	-5.193	-0.0020	-2.5 to 2.5	Pass
					3.8	-10.271	-0.0040	-2.5 to 2.5	Pass
					4.35	-14.076	-0.0055	-2.5 to 2.5	Pass
				-30	3.8	-14.133	-0.0055	-2.5 to 2.5	Pass
				-20	3.8	-14.277	-0.0055	-2.5 to 2.5	Pass
				-10	3.8	-15.707	-0.0061	-2.5 to 2.5	Pass



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16QAM				0	3.8	-2.561	-0.0010	-2.5 to 2.5	Pass					
				10	3.8	-3.948	-0.0015	-2.5 to 2.5	Pass					
				30	3.8	-16.508	-0.0064	-2.5 to 2.5	Pass					
				40	3.8	-11.444	-0.0044	-2.5 to 2.5	Pass					
				50	3.8	-17.080	-0.0066	-2.5 to 2.5	Pass					
	2595	25	0	20	3.46	12.574	0.0048	-2.5 to 2.5	Pass					
					3.8	9.499	0.0037	-2.5 to 2.5	Pass					
					4.35	1.187	0.0005	-2.5 to 2.5	Pass					
				-30	3.8	2.646	0.0010	-2.5 to 2.5	Pass					
				-20	3.8	8.841	0.0034	-2.5 to 2.5	Pass					
				-10	3.8	12.102	0.0047	-2.5 to 2.5	Pass					
				0	3.8	5.450	0.0021	-2.5 to 2.5	Pass					
				10	3.8	-3.133	-0.0012	-2.5 to 2.5	Pass					
				30	3.8	8.698	0.0034	-2.5 to 2.5	Pass					
				40	3.8	8.798	0.0034	-2.5 to 2.5	Pass					
				50	3.8	4.163	0.0016	-2.5 to 2.5	Pass					
				2617.5	25	0	20	3.46	-1.674	-0.0006	-2.5 to 2.5	Pass		
								3.8	0.973	0.0004	-2.5 to 2.5	Pass		
	4.35	7.324	0.0028					-2.5 to 2.5	Pass					
	-30	3.8	-8.483				-0.0032	-2.5 to 2.5	Pass					
	-20	3.8	-6.781				-0.0026	-2.5 to 2.5	Pass					
	-10	3.8	-3.276				-0.0013	-2.5 to 2.5	Pass					
	0	3.8	1.044				0.0004	-2.5 to 2.5	Pass					
	10	3.8	-3.705				-0.0014	-2.5 to 2.5	Pass					
	30	3.8	-5.693				-0.0022	-2.5 to 2.5	Pass					
	40	3.8	5.622				0.0021	-2.5 to 2.5	Pass					
	50	3.8	-5.136				-0.0020	-2.5 to 2.5	Pass					
	2572.5	25	0				20	3.46	-8.097	-0.0031	-2.5 to 2.5	Pass		
								3.8	-10.686	-0.0042	-2.5 to 2.5	Pass		
				4.35	-4.964	-0.0019		-2.5 to 2.5	Pass					
				-30	3.8	-16.980	-0.0066	-2.5 to 2.5	Pass					
				-20	3.8	-10.729	-0.0042	-2.5 to 2.5	Pass					
				-10	3.8	-11.745	-0.0046	-2.5 to 2.5	Pass					
				0	3.8	-9.427	-0.0037	-2.5 to 2.5	Pass					
				10	3.8	-15.965	-0.0062	-2.5 to 2.5	Pass					
30				3.8	-13.061	-0.0051	-2.5 to 2.5	Pass						
40				3.8	-13.533	-0.0053	-2.5 to 2.5	Pass						
50				3.8	-18.225	-0.0071	-2.5 to 2.5	Pass						
2595				25	0	20	3.46	1.516	0.0006	-2.5 to 2.5	Pass			
							3.8	3.362	0.0013	-2.5 to 2.5	Pass			
							4.35	2.446	0.0009	-2.5 to 2.5	Pass			
						-30	3.8	11.902	0.0046	-2.5 to 2.5	Pass			
						-20	3.8	7.825	0.0030	-2.5 to 2.5	Pass			
						-10	3.8	14.892	0.0057	-2.5 to 2.5	Pass			
						0	3.8	5.221	0.0020	-2.5 to 2.5	Pass			
						10	3.8	-1.903	-0.0007	-2.5 to 2.5	Pass			
						30	3.8	0.272	0.0001	-2.5 to 2.5	Pass			
						40	3.8	-0.443	-0.0002	-2.5 to 2.5	Pass			
						50	3.8	-1.059	-0.0004	-2.5 to 2.5	Pass			
						2617.5	25	0	20	3.46	-5.937	-0.0023	-2.5 to 2.5	Pass
										3.8	3.362	0.0013	-2.5 to 2.5	Pass
4.35				3.076	0.0012					-2.5 to 2.5	Pass			
-30	3.8	-1.731	-0.0007	-2.5 to 2.5	Pass									



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				-20	3.8	0.329	0.0001	-2.5 to 2.5	Pass	
				-10	3.8	6.566	0.0025	-2.5 to 2.5	Pass	
				0	3.8	9.012	0.0034	-2.5 to 2.5	Pass	
				10	3.8	3.819	0.0015	-2.5 to 2.5	Pass	
				30	3.8	-1.645	-0.0006	-2.5 to 2.5	Pass	
				40	3.8	-4.392	-0.0017	-2.5 to 2.5	Pass	
				50	3.8	-3.734	-0.0014	-2.5 to 2.5	Pass	
64QAM	2572.5	25	0	20	3.46	-15.192	-0.0059	-2.5 to 2.5	Pass	
					3.8	-6.380	-0.0025	-2.5 to 2.5	Pass	
					4.35	-14.291	-0.0056	-2.5 to 2.5	Pass	
				-30	3.8	-19.026	-0.0074	-2.5 to 2.5	Pass	
					-20	3.8	-17.896	-0.0070	-2.5 to 2.5	Pass
					-10	3.8	-13.633	-0.0053	-2.5 to 2.5	Pass
				0	3.8	-11.687	-0.0045	-2.5 to 2.5	Pass	
					10	3.8	-16.780	-0.0065	-2.5 to 2.5	Pass
					30	3.8	-17.524	-0.0068	-2.5 to 2.5	Pass
					40	3.8	-8.984	-0.0035	-2.5 to 2.5	Pass
					50	3.8	-12.317	-0.0048	-2.5 to 2.5	Pass
					2595	25	0	20	3.46	-2.875
	3.8	-0.930	-0.0004	-2.5 to 2.5					Pass	
	4.35	2.546	0.0010	-2.5 to 2.5					Pass	
	-30	3.8	4.520	0.0017				-2.5 to 2.5	Pass	
		-20	3.8	13.690				0.0053	-2.5 to 2.5	Pass
		-10	3.8	10.815				0.0042	-2.5 to 2.5	Pass
	0	3.8	11.988	0.0046				-2.5 to 2.5	Pass	
		10	3.8	11.330				0.0044	-2.5 to 2.5	Pass
		30	3.8	6.394				0.0025	-2.5 to 2.5	Pass
		40	3.8	2.646				0.0010	-2.5 to 2.5	Pass
		50	3.8	0.429				0.0002	-2.5 to 2.5	Pass
		2617.5	25	0				20	3.46	-7.324
	3.8				3.219	0.0012	-2.5 to 2.5		Pass	
4.35	3.533				0.0013	-2.5 to 2.5	Pass			
-30	3.8				4.606	0.0018	-2.5 to 2.5	Pass		
	-20				3.8	4.563	0.0017	-2.5 to 2.5	Pass	
	-10				3.8	7.982	0.0030	-2.5 to 2.5	Pass	
0	3.8				-6.881	-0.0026	-2.5 to 2.5	Pass		
	10				3.8	-4.478	-0.0017	-2.5 to 2.5	Pass	
	30				3.8	11.945	0.0046	-2.5 to 2.5	Pass	
	40				3.8	-0.057	0.0000	-2.5 to 2.5	Pass	
	50				3.8	9.112	0.0035	-2.5 to 2.5	Pass	

2.2 B38_10MHz

2.2.1 Test Result

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	20	3.46	-18.339	-0.0071	-2.5 to 2.5	Pass		
							3.8	-5.593	-0.0022	-2.5 to 2.5	Pass
							4.35	-6.480	-0.0025	-2.5 to 2.5	Pass

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16QAM	2595	50	0	-30	3.8	-8.669	-0.0034	-2.5 to 2.5	Pass			
				-20	3.8	-9.112	-0.0035	-2.5 to 2.5	Pass			
				-10	3.8	-8.969	-0.0035	-2.5 to 2.5	Pass			
				0	3.8	-8.154	-0.0032	-2.5 to 2.5	Pass			
				10	3.8	-3.605	-0.0014	-2.5 to 2.5	Pass			
				30	3.8	-12.660	-0.0049	-2.5 to 2.5	Pass			
				40	3.8	-8.397	-0.0033	-2.5 to 2.5	Pass			
				50	3.8	-5.951	-0.0023	-2.5 to 2.5	Pass			
	2615	50	0	20	3.46	-1.602	-0.0006	-2.5 to 2.5	Pass			
					3.8	-8.712	-0.0034	-2.5 to 2.5	Pass			
					4.35	-7.682	-0.0030	-2.5 to 2.5	Pass			
				-30	3.8	-2.689	-0.0010	-2.5 to 2.5	Pass			
				-20	3.8	0.086	0.0000	-2.5 to 2.5	Pass			
				-10	3.8	-4.392	-0.0017	-2.5 to 2.5	Pass			
				0	3.8	-5.422	-0.0021	-2.5 to 2.5	Pass			
				10	3.8	-12.503	-0.0048	-2.5 to 2.5	Pass			
				30	3.8	-11.945	-0.0046	-2.5 to 2.5	Pass			
				40	3.8	-2.661	-0.0010	-2.5 to 2.5	Pass			
				50	3.8	-11.430	-0.0044	-2.5 to 2.5	Pass			
				2575	50	0	20	3.46	-10.743	-0.0041	-2.5 to 2.5	Pass
								3.8	-2.003	-0.0008	-2.5 to 2.5	Pass
								4.35	-3.777	-0.0014	-2.5 to 2.5	Pass
							-30	3.8	-1.731	-0.0007	-2.5 to 2.5	Pass
							-20	3.8	-12.417	-0.0047	-2.5 to 2.5	Pass
							-10	3.8	-0.215	-0.0001	-2.5 to 2.5	Pass
	0	3.8	-4.005				-0.0015	-2.5 to 2.5	Pass			
	10	3.8	-12.345				-0.0047	-2.5 to 2.5	Pass			
	30	3.8	-9.227				-0.0035	-2.5 to 2.5	Pass			
	40	3.8	-4.807				-0.0018	-2.5 to 2.5	Pass			
	50	3.8	-1.917				-0.0007	-2.5 to 2.5	Pass			
	2595	50	0				20	3.46	-0.987	-0.0004	-2.5 to 2.5	Pass
								3.8	-14.935	-0.0058	-2.5 to 2.5	Pass
								4.35	-12.760	-0.0050	-2.5 to 2.5	Pass
				-30	3.8	-13.204	-0.0051	-2.5 to 2.5	Pass			
				-20	3.8	-6.809	-0.0026	-2.5 to 2.5	Pass			
				-10	3.8	-5.751	-0.0022	-2.5 to 2.5	Pass			
				0	3.8	-4.864	-0.0019	-2.5 to 2.5	Pass			
				10	3.8	-2.060	-0.0008	-2.5 to 2.5	Pass			
				30	3.8	-13.847	-0.0054	-2.5 to 2.5	Pass			
				40	3.8	-6.495	-0.0025	-2.5 to 2.5	Pass			
				50	3.8	-6.981	-0.0027	-2.5 to 2.5	Pass			
				2615	50	0	20	3.46	-0.443	-0.0002	-2.5 to 2.5	Pass
								3.8	-10.142	-0.0039	-2.5 to 2.5	Pass
								4.35	-8.798	-0.0034	-2.5 to 2.5	Pass
							-30	3.8	-8.340	-0.0032	-2.5 to 2.5	Pass
-20							3.8	-8.440	-0.0033	-2.5 to 2.5	Pass	
-10							3.8	-1.616	-0.0006	-2.5 to 2.5	Pass	
0							3.8	-8.039	-0.0031	-2.5 to 2.5	Pass	
10							3.8	-5.608	-0.0022	-2.5 to 2.5	Pass	
30							3.8	-3.548	-0.0014	-2.5 to 2.5	Pass	
40							3.8	-6.309	-0.0024	-2.5 to 2.5	Pass	
50				3.8	-6.909	-0.0027	-2.5 to 2.5	Pass				
2615	50	0	20	3.46	-0.286	-0.0001	-2.5 to 2.5	Pass				

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					3.8	-3.819	-0.0015	-2.5 to 2.5	Pass				
					4.35	-1.230	-0.0005	-2.5 to 2.5	Pass				
				-30	3.8	-6.537	-0.0025	-2.5 to 2.5	Pass				
				-20	3.8	-9.255	-0.0035	-2.5 to 2.5	Pass				
				-10	3.8	-6.180	-0.0024	-2.5 to 2.5	Pass				
				0	3.8	-7.296	-0.0028	-2.5 to 2.5	Pass				
				10	3.8	-4.420	-0.0017	-2.5 to 2.5	Pass				
				30	3.8	-0.701	-0.0003	-2.5 to 2.5	Pass				
				40	3.8	-5.407	-0.0021	-2.5 to 2.5	Pass				
				50	3.8	-9.985	-0.0038	-2.5 to 2.5	Pass				
				64QAM	2575	50	0		3.46	-4.792	-0.0019	-2.5 to 2.5	Pass
								20	3.8	-9.141	-0.0035	-2.5 to 2.5	Pass
									4.35	-2.832	-0.0011	-2.5 to 2.5	Pass
								-30	3.8	-7.210	-0.0028	-2.5 to 2.5	Pass
								-20	3.8	-7.052	-0.0027	-2.5 to 2.5	Pass
-10	3.8	-13.719	-0.0053					-2.5 to 2.5	Pass				
0	3.8	-2.203	-0.0009					-2.5 to 2.5	Pass				
10	3.8	1.073	0.0004					-2.5 to 2.5	Pass				
30	3.8	-4.807	-0.0019					-2.5 to 2.5	Pass				
40	3.8	-13.547	-0.0053		-2.5 to 2.5	Pass							
50	3.8	-5.078	-0.0020		-2.5 to 2.5	Pass							
2595	50	0			3.46	-8.454	-0.0033	-2.5 to 2.5	Pass				
			20		3.8	-5.665	-0.0022	-2.5 to 2.5	Pass				
					4.35	1.030	0.0004	-2.5 to 2.5	Pass				
			-30		3.8	-7.725	-0.0030	-2.5 to 2.5	Pass				
			-20	3.8	-0.601	-0.0002	-2.5 to 2.5	Pass					
			-10	3.8	2.089	0.0008	-2.5 to 2.5	Pass					
			0	3.8	-9.971	-0.0038	-2.5 to 2.5	Pass					
			10	3.8	-12.259	-0.0047	-2.5 to 2.5	Pass					
			30	3.8	-4.835	-0.0019	-2.5 to 2.5	Pass					
40	3.8	-9.012	-0.0035	-2.5 to 2.5	Pass								
50	3.8	-9.627	-0.0037	-2.5 to 2.5	Pass								
2615	50	0		3.46	-3.061	-0.0012	-2.5 to 2.5	Pass					
			20	3.8	-3.047	-0.0012	-2.5 to 2.5	Pass					
				4.35	1.874	0.0007	-2.5 to 2.5	Pass					
			-30	3.8	-0.758	-0.0003	-2.5 to 2.5	Pass					
			-20	3.8	-6.223	-0.0024	-2.5 to 2.5	Pass					
			-10	3.8	-4.849	-0.0019	-2.5 to 2.5	Pass					
			0	3.8	-7.610	-0.0029	-2.5 to 2.5	Pass					
			10	3.8	-1.101	-0.0004	-2.5 to 2.5	Pass					
			30	3.8	-5.336	-0.0020	-2.5 to 2.5	Pass					
40	3.8	-1.917	-0.0007	-2.5 to 2.5	Pass								
50	3.8	-4.935	-0.0019	-2.5 to 2.5	Pass								

2.3 B38_15MHz

2.3.1 Test Result

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	

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QPSK	2577.5	75	0	20	3.46	-7.281	-0.0028	-2.5 to 2.5	Pass						
					3.8	-7.124	-0.0028	-2.5 to 2.5	Pass						
					4.35	-0.916	-0.0004	-2.5 to 2.5	Pass						
				-30	3.8	-5.093	-0.0020	-2.5 to 2.5	Pass						
										-20	3.8	-4.334	-0.0017	-2.5 to 2.5	Pass
											-10	3.8	-2.017	-0.0008	-2.5 to 2.5
				0	3.8	-4.563	-0.0018	-2.5 to 2.5	Pass						
					10	3.8	-0.043	0.0000	-2.5 to 2.5	Pass					
					30	3.8	-7.839	-0.0030	-2.5 to 2.5	Pass					
	40	3.8	-3.247		-0.0013	-2.5 to 2.5	Pass								
	50	3.8	-6.452		-0.0025	-2.5 to 2.5	Pass								
	2595	75	0		20	3.46	-3.734	-0.0014	-2.5 to 2.5	Pass					
				3.8		-12.045	-0.0046	-2.5 to 2.5	Pass						
				4.35		-12.131	-0.0047	-2.5 to 2.5	Pass						
				-30	3.8	-13.132	-0.0051	-2.5 to 2.5	Pass						
										-20	3.8	-13.561	-0.0052	-2.5 to 2.5	Pass
											-10	3.8	-3.734	-0.0014	-2.5 to 2.5
				0	3.8	-11.129	-0.0043	-2.5 to 2.5	Pass						
10					3.8	-7.710	-0.0030	-2.5 to 2.5	Pass						
30					3.8	-10.514	-0.0041	-2.5 to 2.5	Pass						
40	3.8	-5.093	-0.0020		-2.5 to 2.5	Pass									
50	3.8	-11.530	-0.0044		-2.5 to 2.5	Pass									
2612.5	75	0	20		3.46	-13.390	-0.0051	-2.5 to 2.5	Pass						
				3.8	3.648	0.0014	-2.5 to 2.5	Pass							
				4.35	-10.715	-0.0041	-2.5 to 2.5	Pass							
			-30	3.8	-4.549	-0.0017	-2.5 to 2.5	Pass							
									-20	3.8	-9.871	-0.0038	-2.5 to 2.5	Pass	
										-10	3.8	-12.059	-0.0046	-2.5 to 2.5	Pass
			0	3.8	-2.203	-0.0008	-2.5 to 2.5	Pass							
				10	3.8	-0.944	-0.0004	-2.5 to 2.5	Pass						
				30	3.8	-8.068	-0.0031	-2.5 to 2.5	Pass						
40	3.8	-4.234		-0.0016	-2.5 to 2.5	Pass									
50	3.8	-11.988		-0.0046	-2.5 to 2.5	Pass									
16QAM	2577.5	75		0	20	3.46	-5.035	-0.0020	-2.5 to 2.5	Pass					
			3.8			0.472	0.0002	-2.5 to 2.5	Pass						
			4.35			-1.473	-0.0006	-2.5 to 2.5	Pass						
			-30		3.8	-4.692	-0.0018	-2.5 to 2.5	Pass						
										-20	3.8	-5.679	-0.0022	-2.5 to 2.5	Pass
											-10	3.8	-5.007	-0.0019	-2.5 to 2.5
			0		3.8	-3.519	-0.0014	-2.5 to 2.5	Pass						
					10	3.8	-5.093	-0.0020	-2.5 to 2.5	Pass					
					30	3.8	-3.133	-0.0012	-2.5 to 2.5	Pass					
	40	3.8		-1.302	-0.0005	-2.5 to 2.5	Pass								
	50	3.8		-3.934	-0.0015	-2.5 to 2.5	Pass								
	2595	75		0	20	3.46	-12.345	-0.0048	-2.5 to 2.5	Pass					
			3.8			-10.042	-0.0039	-2.5 to 2.5	Pass						
			4.35			-10.242	-0.0039	-2.5 to 2.5	Pass						
			-30		3.8	-12.803	-0.0049	-2.5 to 2.5	Pass						
										-20	3.8	-14.935	-0.0058	-2.5 to 2.5	Pass
											-10	3.8	-10.614	-0.0041	-2.5 to 2.5
			0		3.8	-13.490	-0.0052	-2.5 to 2.5	Pass						
10					3.8	-6.266	-0.0024	-2.5 to 2.5	Pass						
30					3.8	-12.918	-0.0050	-2.5 to 2.5	Pass						

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	2612.5	75	0	40	3.8	-7.911	-0.0030	-2.5 to 2.5	Pass				
				50	3.8	-4.220	-0.0016	-2.5 to 2.5	Pass				
				20	3.46	-3.762	-0.0014	-2.5 to 2.5	Pass				
					3.8	-4.950	-0.0019	-2.5 to 2.5	Pass				
					4.35	-10.529	-0.0040	-2.5 to 2.5	Pass				
				-30	3.8	-12.918	-0.0049	-2.5 to 2.5	Pass				
				-20	3.8	-11.473	-0.0044	-2.5 to 2.5	Pass				
				-10	3.8	-6.394	-0.0024	-2.5 to 2.5	Pass				
				0	3.8	0.429	0.0002	-2.5 to 2.5	Pass				
				10	3.8	-9.227	-0.0035	-2.5 to 2.5	Pass				
				30	3.8	-7.968	-0.0030	-2.5 to 2.5	Pass				
				40	3.8	-7.281	-0.0028	-2.5 to 2.5	Pass				
				50	3.8	-0.014	0.0000	-2.5 to 2.5	Pass				
				64QAM	2577.5	75	0	20	3.46	-7.896	-0.0031	-2.5 to 2.5	Pass
3.8	-4.935	-0.0019	-2.5 to 2.5						Pass				
4.35	-0.157	-0.0001	-2.5 to 2.5						Pass				
-30	3.8	-4.492	-0.0017					-2.5 to 2.5	Pass				
-20	3.8	-4.320	-0.0017					-2.5 to 2.5	Pass				
-10	3.8	-9.828	-0.0038					-2.5 to 2.5	Pass				
0	3.8	4.377	0.0017					-2.5 to 2.5	Pass				
10	3.8	-5.250	-0.0020					-2.5 to 2.5	Pass				
30	3.8	-3.233	-0.0013					-2.5 to 2.5	Pass				
40	3.8	-8.569	-0.0033					-2.5 to 2.5	Pass				
50	3.8	2.117	0.0008					-2.5 to 2.5	Pass				
64QAM	2595	75	0					20	3.46	-12.317	-0.0047	-2.5 to 2.5	Pass
									3.8	-15.106	-0.0058	-2.5 to 2.5	Pass
									4.35	-13.533	-0.0052	-2.5 to 2.5	Pass
				-30	3.8	-5.522	-0.0021	-2.5 to 2.5	Pass				
				-20	3.8	-9.470	-0.0036	-2.5 to 2.5	Pass				
				-10	3.8	-10.443	-0.0040	-2.5 to 2.5	Pass				
				0	3.8	-10.085	-0.0039	-2.5 to 2.5	Pass				
				10	3.8	-12.460	-0.0048	-2.5 to 2.5	Pass				
				30	3.8	-8.497	-0.0033	-2.5 to 2.5	Pass				
				40	3.8	-9.999	-0.0039	-2.5 to 2.5	Pass				
				50	3.8	-10.514	-0.0041	-2.5 to 2.5	Pass				
				64QAM	2612.5	75	0	20	3.46	-4.849	-0.0019	-2.5 to 2.5	Pass
									3.8	-9.341	-0.0036	-2.5 to 2.5	Pass
									4.35	-4.163	-0.0016	-2.5 to 2.5	Pass
-30	3.8	-8.569	-0.0033					-2.5 to 2.5	Pass				
-20	3.8	-1.845	-0.0007					-2.5 to 2.5	Pass				
-10	3.8	-6.967	-0.0027					-2.5 to 2.5	Pass				
0	3.8	-9.727	-0.0037					-2.5 to 2.5	Pass				
10	3.8	-0.286	-0.0001					-2.5 to 2.5	Pass				
30	3.8	-4.478	-0.0017					-2.5 to 2.5	Pass				
40	3.8	-6.680	-0.0026					-2.5 to 2.5	Pass				
50	3.8	-13.747	-0.0053					-2.5 to 2.5	Pass				

2.4 B38_20MHz

2.4.1 Test Result



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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	20	3.46	-10.085	-0.0039	-2.5 to 2.5	Pass	
					3.8	-11.287	-0.0044	-2.5 to 2.5	Pass	
					4.35	-7.625	-0.0030	-2.5 to 2.5	Pass	
				-30	3.8	-8.254	-0.0032	-2.5 to 2.5	Pass	
					-20	3.8	-8.225	-0.0032	-2.5 to 2.5	Pass
						3.8	-4.578	-0.0018	-2.5 to 2.5	Pass
				0	3.8	-6.495	-0.0025	-2.5 to 2.5	Pass	
					10	3.8	-5.450	-0.0021	-2.5 to 2.5	Pass
				30	3.8	-7.710	-0.0030	-2.5 to 2.5	Pass	
				40	3.8	-6.466	-0.0025	-2.5 to 2.5	Pass	
	50	3.8	0.000	0.0000	-2.5 to 2.5	Pass				
	2595	100	0	20	3.46	-5.450	-0.0021	-2.5 to 2.5	Pass	
					3.8	-8.512	-0.0033	-2.5 to 2.5	Pass	
					4.35	-15.106	-0.0058	-2.5 to 2.5	Pass	
				-30	3.8	-11.916	-0.0046	-2.5 to 2.5	Pass	
					-20	3.8	-12.789	-0.0049	-2.5 to 2.5	Pass
						3.8	-6.680	-0.0026	-2.5 to 2.5	Pass
				0	3.8	-14.319	-0.0055	-2.5 to 2.5	Pass	
					10	3.8	-7.396	-0.0029	-2.5 to 2.5	Pass
				30	3.8	-11.716	-0.0045	-2.5 to 2.5	Pass	
				40	3.8	-8.769	-0.0034	-2.5 to 2.5	Pass	
	50	3.8	-6.294	-0.0024	-2.5 to 2.5	Pass				
	2610	100	0	20	3.46	-11.172	-0.0043	-2.5 to 2.5	Pass	
					3.8	-3.033	-0.0012	-2.5 to 2.5	Pass	
					4.35	-4.234	-0.0016	-2.5 to 2.5	Pass	
				-30	3.8	-6.938	-0.0027	-2.5 to 2.5	Pass	
					-20	3.8	-9.012	-0.0035	-2.5 to 2.5	Pass
						3.8	-5.379	-0.0021	-2.5 to 2.5	Pass
				0	3.8	-5.922	-0.0023	-2.5 to 2.5	Pass	
					10	3.8	-6.609	-0.0025	-2.5 to 2.5	Pass
30				3.8	-6.981	-0.0027	-2.5 to 2.5	Pass		
40				3.8	-6.866	-0.0026	-2.5 to 2.5	Pass		
50	3.8	-3.662	-0.0014	-2.5 to 2.5	Pass					
16QAM	2580	100	0	20	3.46	-15.135	-0.0059	-2.5 to 2.5	Pass	
					3.8	-3.762	-0.0015	-2.5 to 2.5	Pass	
					4.35	-0.100	0.0000	-2.5 to 2.5	Pass	
				-30	3.8	-4.077	-0.0016	-2.5 to 2.5	Pass	
					-20	3.8	-11.916	-0.0046	-2.5 to 2.5	Pass
						3.8	-4.950	-0.0019	-2.5 to 2.5	Pass
				0	3.8	-7.954	-0.0031	-2.5 to 2.5	Pass	
					10	3.8	-10.386	-0.0040	-2.5 to 2.5	Pass
				30	3.8	-3.047	-0.0012	-2.5 to 2.5	Pass	
				40	3.8	-4.148	-0.0016	-2.5 to 2.5	Pass	
	50	3.8	-9.370	-0.0036	-2.5 to 2.5	Pass				
	2595	100	0	20	3.46	-6.123	-0.0024	-2.5 to 2.5	Pass	
					3.8	-3.519	-0.0014	-2.5 to 2.5	Pass	
					4.35	-6.495	-0.0025	-2.5 to 2.5	Pass	
				-30	3.8	-11.415	-0.0044	-2.5 to 2.5	Pass	
					-20	3.8	-13.433	-0.0052	-2.5 to 2.5	Pass
						3.8	-12.746	-0.0049	-2.5 to 2.5	Pass

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				0	3.8	-9.484	-0.0037	-2.5 to 2.5	Pass
				10	3.8	-8.926	-0.0034	-2.5 to 2.5	Pass
				30	3.8	-6.537	-0.0025	-2.5 to 2.5	Pass
				40	3.8	-7.138	-0.0028	-2.5 to 2.5	Pass
				50	3.8	-12.345	-0.0048	-2.5 to 2.5	Pass
	2610	100	0	20	3.46	-7.124	-0.0027	-2.5 to 2.5	Pass
					3.8	-2.689	-0.0010	-2.5 to 2.5	Pass
					4.35	-2.632	-0.0010	-2.5 to 2.5	Pass
				-30	3.8	-5.450	-0.0021	-2.5 to 2.5	Pass
				-20	3.8	-2.031	-0.0008	-2.5 to 2.5	Pass
				-10	3.8	-5.479	-0.0021	-2.5 to 2.5	Pass
				0	3.8	-2.217	-0.0008	-2.5 to 2.5	Pass
				10	3.8	-5.093	-0.0020	-2.5 to 2.5	Pass
				30	3.8	-3.490	-0.0013	-2.5 to 2.5	Pass
				40	3.8	-8.140	-0.0031	-2.5 to 2.5	Pass
				50	3.8	-3.748	-0.0014	-2.5 to 2.5	Pass
				64QAM	2580	100	0	20	3.46
3.8	0.529	0.0002	-2.5 to 2.5						Pass
4.35	-5.093	-0.0020	-2.5 to 2.5						Pass
-30	3.8	-8.483	-0.0033					-2.5 to 2.5	Pass
-20	3.8	-4.749	-0.0018					-2.5 to 2.5	Pass
-10	3.8	-8.855	-0.0034					-2.5 to 2.5	Pass
0	3.8	-12.145	-0.0047					-2.5 to 2.5	Pass
10	3.8	-5.836	-0.0023					-2.5 to 2.5	Pass
30	3.8	-8.683	-0.0034					-2.5 to 2.5	Pass
40	3.8	-5.679	-0.0022					-2.5 to 2.5	Pass
50	3.8	-9.627	-0.0037					-2.5 to 2.5	Pass
2595	100	0	20					3.46	-11.730
					3.8	-13.118	-0.0051	-2.5 to 2.5	Pass
					4.35	-7.653	-0.0029	-2.5 to 2.5	Pass
			-30		3.8	-17.881	-0.0069	-2.5 to 2.5	Pass
			-20		3.8	-1.359	-0.0005	-2.5 to 2.5	Pass
			-10		3.8	-6.137	-0.0024	-2.5 to 2.5	Pass
			0		3.8	-11.930	-0.0046	-2.5 to 2.5	Pass
			10		3.8	-2.675	-0.0010	-2.5 to 2.5	Pass
			30		3.8	-9.456	-0.0036	-2.5 to 2.5	Pass
			40		3.8	-7.424	-0.0029	-2.5 to 2.5	Pass
			50		3.8	-5.236	-0.0020	-2.5 to 2.5	Pass
			2610		100	0	20	3.46	0.443
3.8	-8.025	-0.0031						-2.5 to 2.5	Pass
4.35	-6.194	-0.0024						-2.5 to 2.5	Pass
-30	3.8	-2.346					-0.0009	-2.5 to 2.5	Pass
-20	3.8	-5.279					-0.0020	-2.5 to 2.5	Pass
-10	3.8	-9.212					-0.0035	-2.5 to 2.5	Pass
0	3.8	-2.532					-0.0010	-2.5 to 2.5	Pass
10	3.8	-4.535					-0.0017	-2.5 to 2.5	Pass
30	3.8	-5.908					-0.0023	-2.5 to 2.5	Pass
40	3.8	-5.236					-0.0020	-2.5 to 2.5	Pass
50	3.8	-6.809					-0.0026	-2.5 to 2.5	Pass

3. Modulation Characteristics



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3.1 B38_5MHz

3.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	25	0	Refer To Test Graph		Pass
16QAM	2595	25	0	Refer To Test Graph		Pass
64QAM	2595	25	0	Refer To Test Graph		Pass



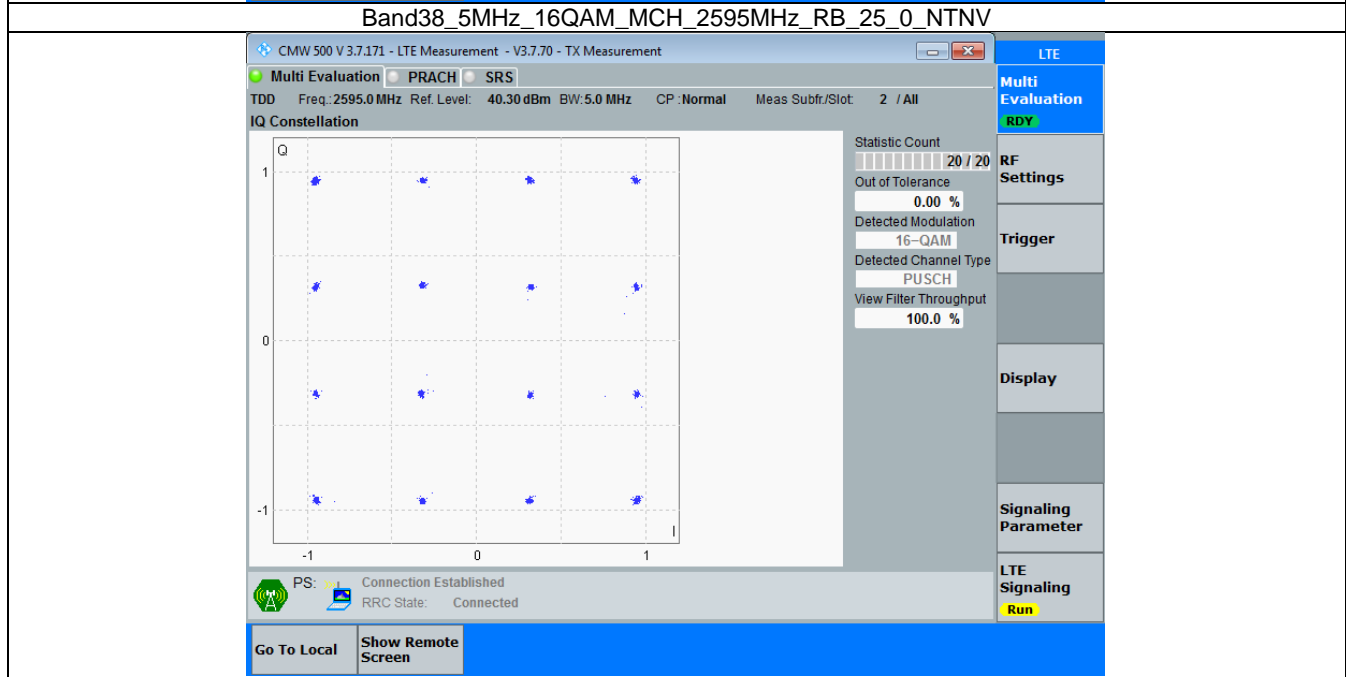
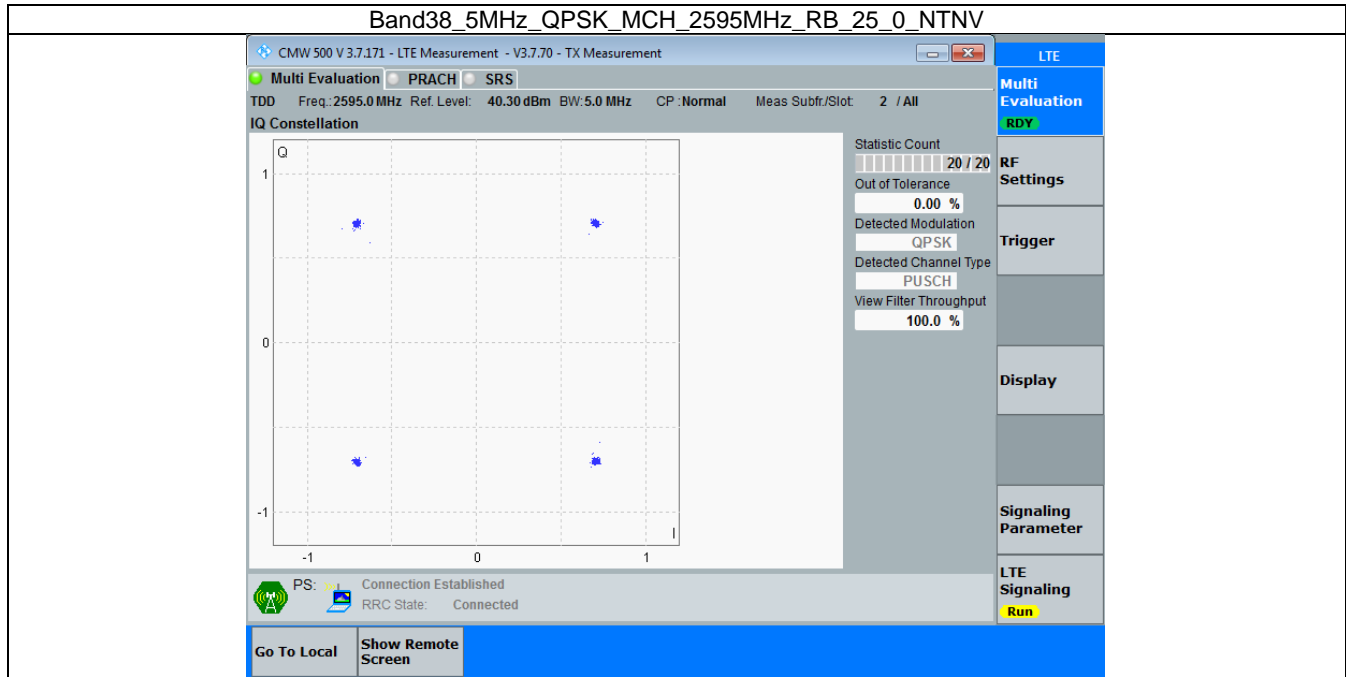
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3.1.2 Test Graph

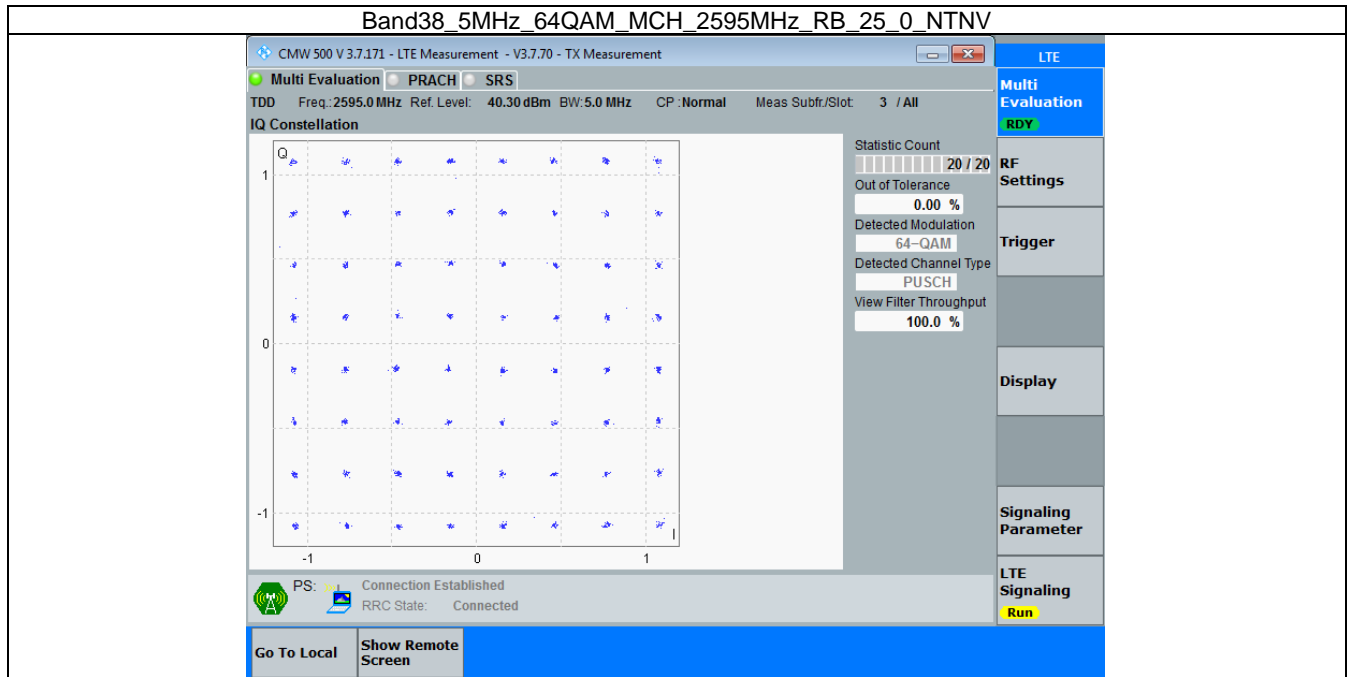


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3.2 B38_10MHz

3.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	50	0	Refer To Test Graph		Pass
16QAM	2595	50	0	Refer To Test Graph		Pass
64QAM	2595	50	0	Refer To Test Graph		Pass



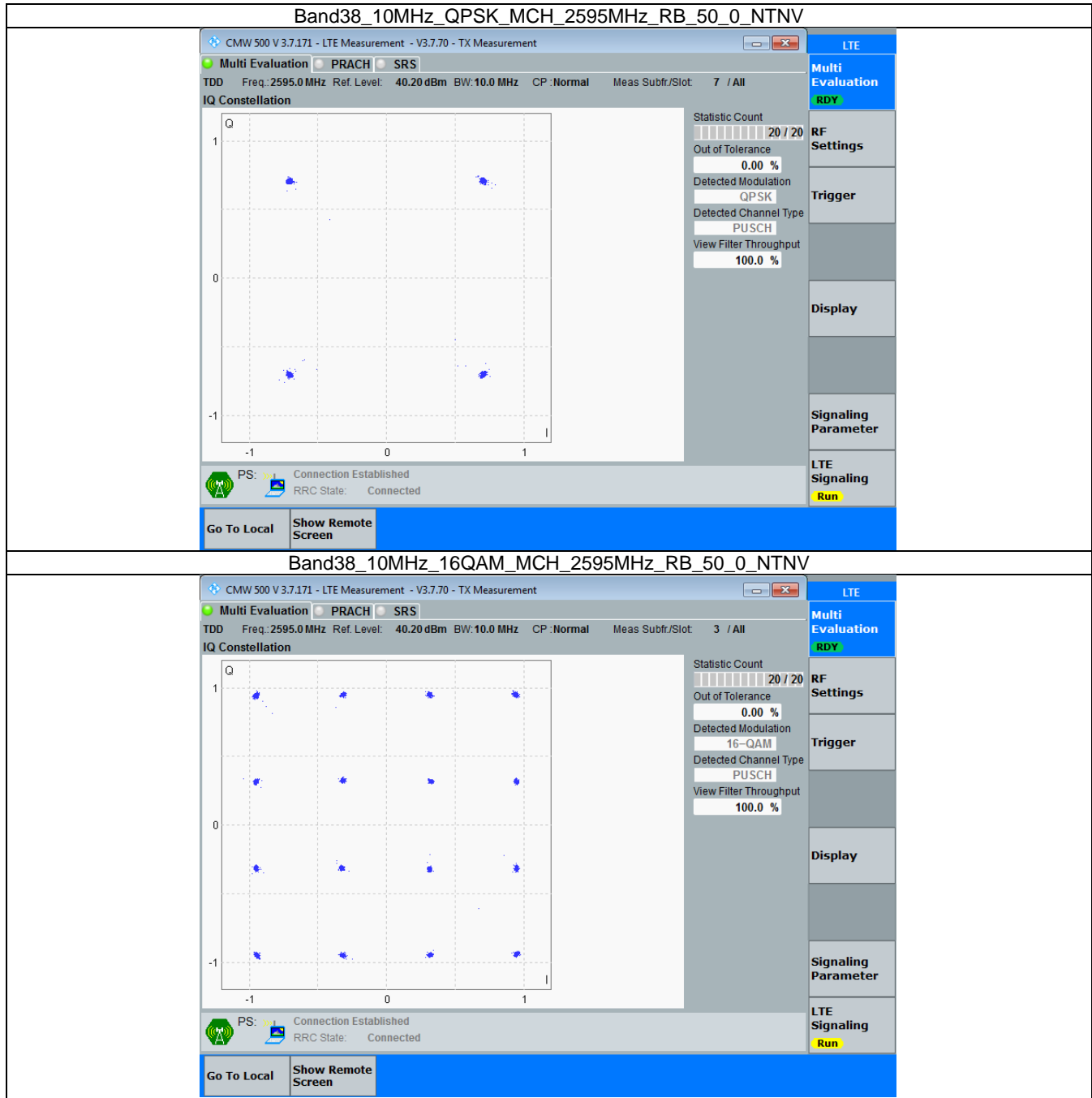
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3.2.2 Test Graph

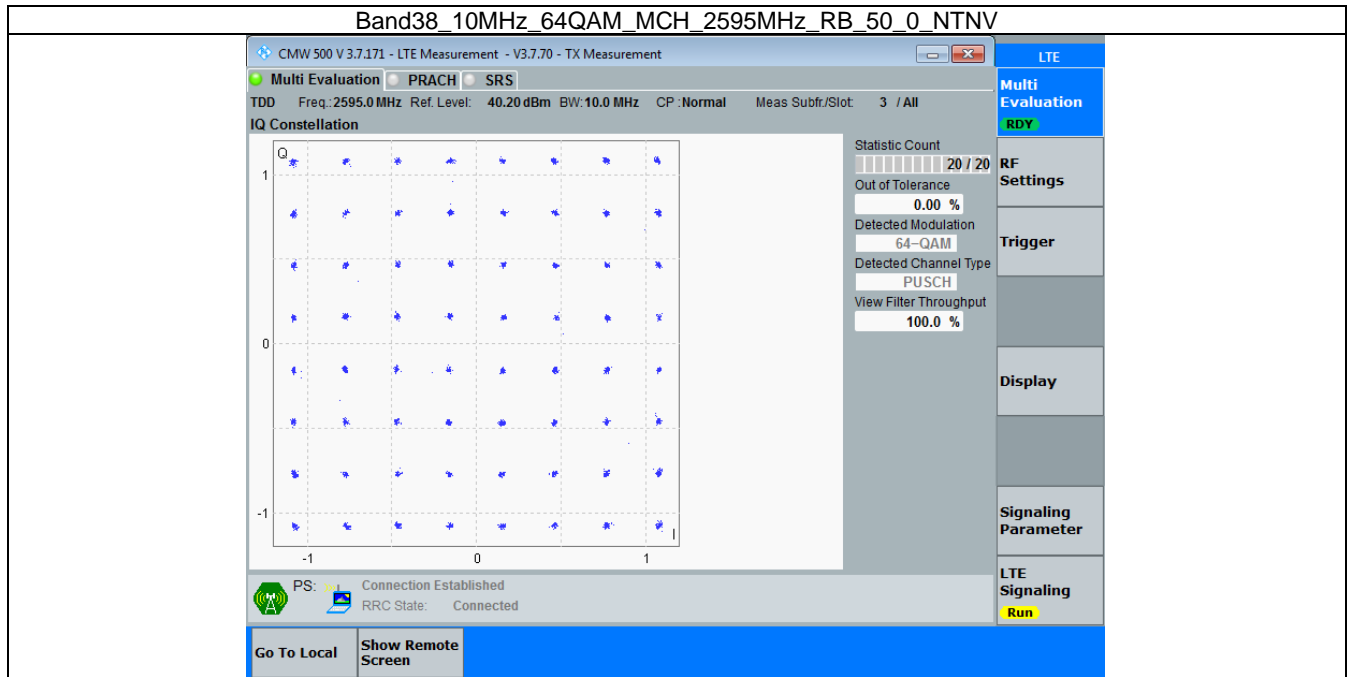


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3.3 B38_15MHz

3.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	75	0	Refer To Test Graph		Pass
16QAM	2595	75	0	Refer To Test Graph		Pass
64QAM	2595	75	0	Refer To Test Graph		Pass



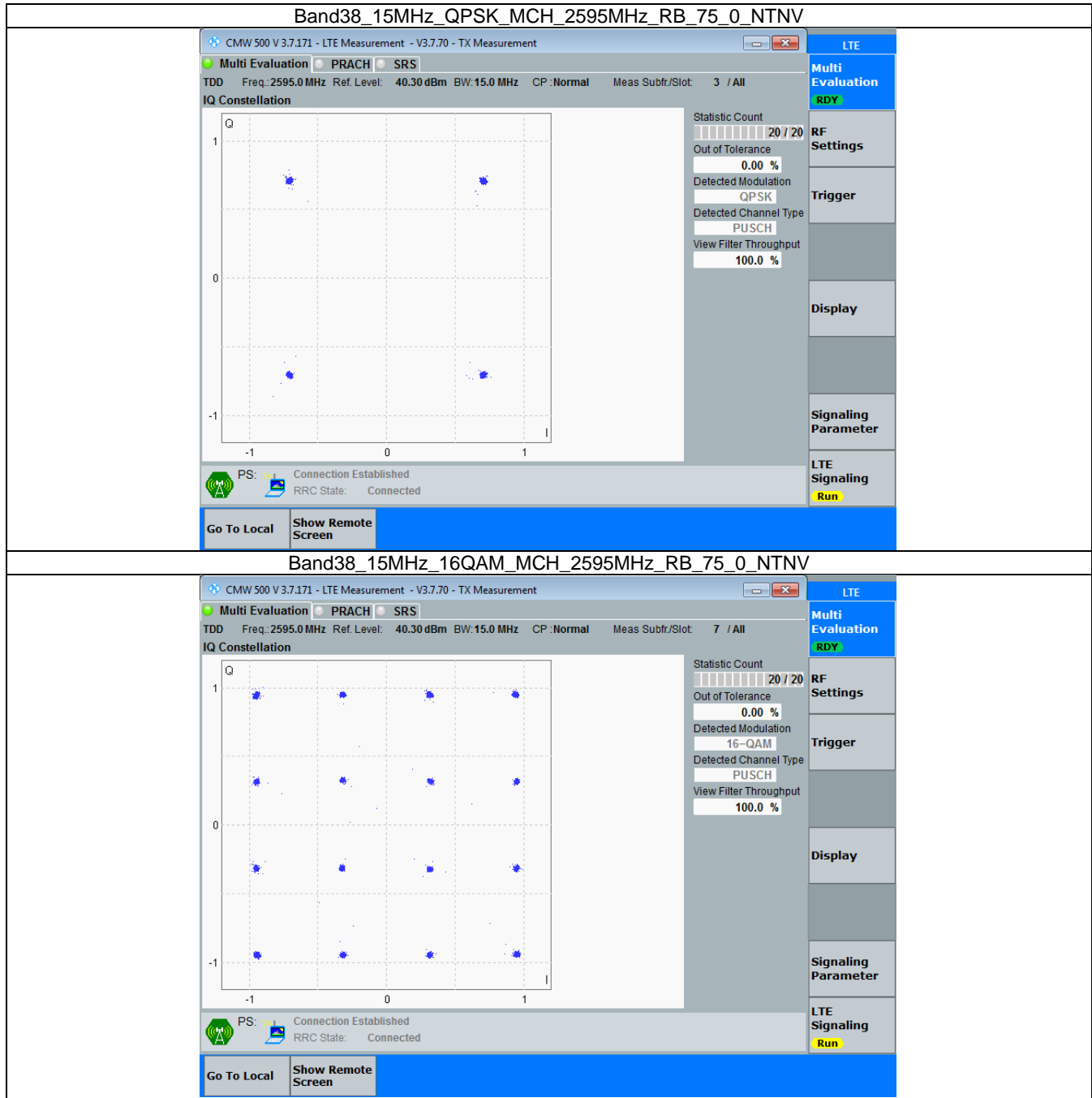
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3.3.2 Test Graph

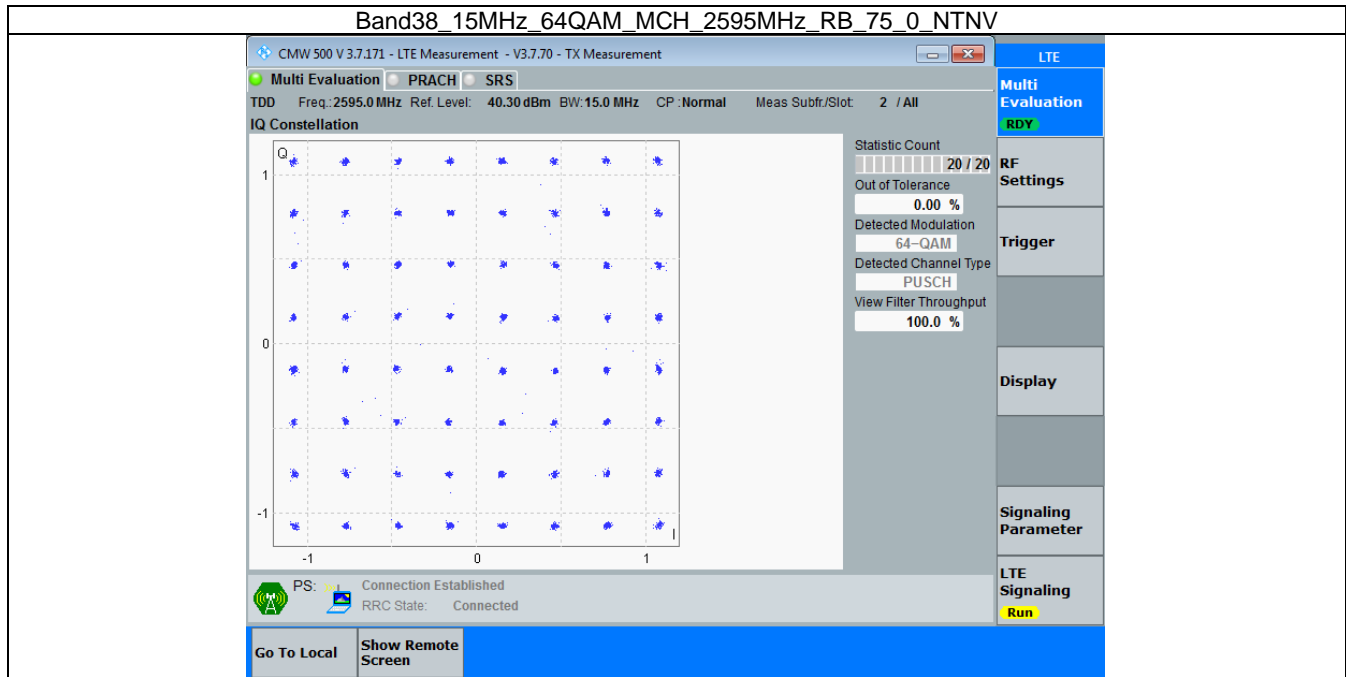


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3.4 B38_20MHz

3.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	100	0	Refer To Test Graph		Pass
16QAM	2595	100	0	Refer To Test Graph		Pass
64QAM	2595	100	0	Refer To Test Graph		Pass

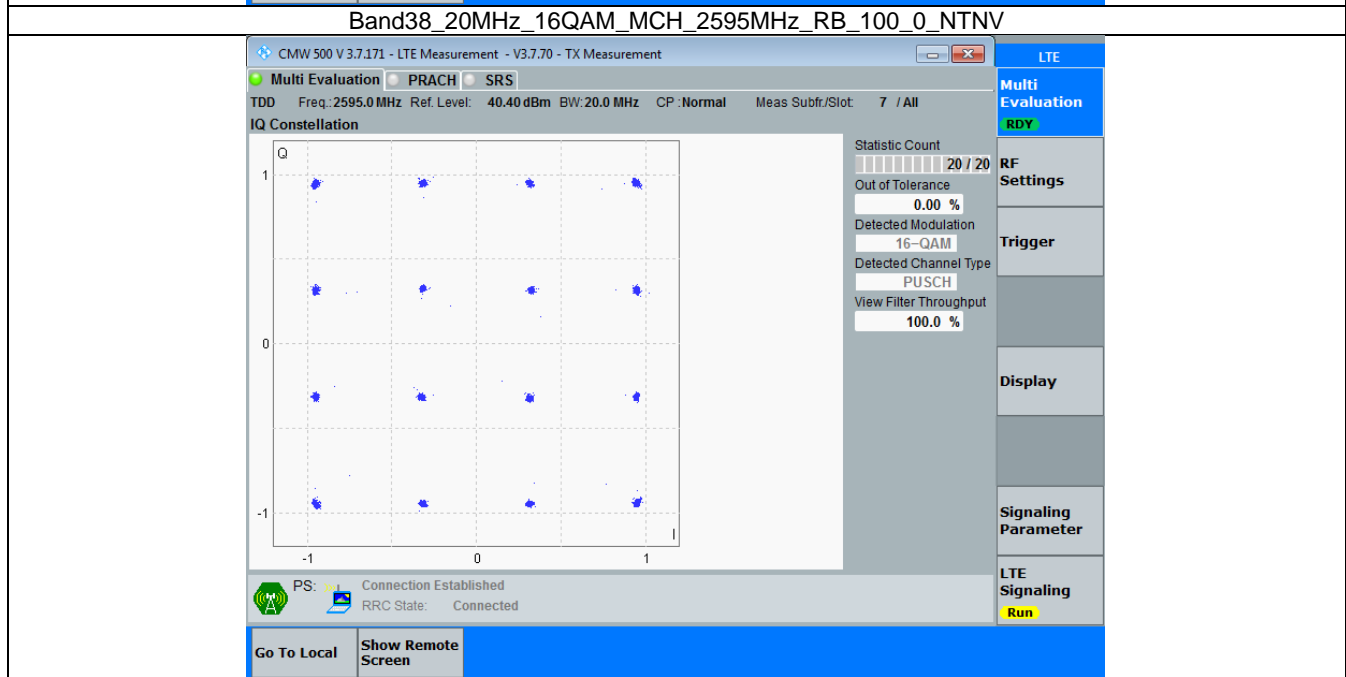
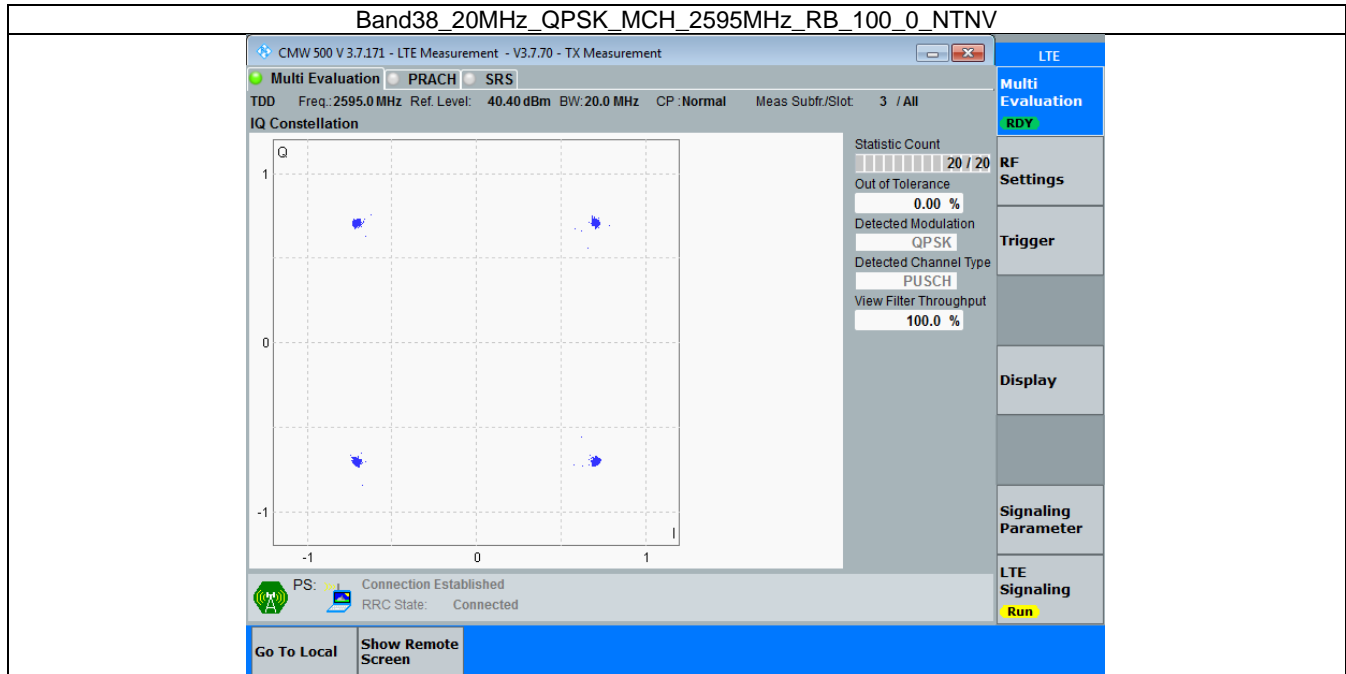


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3.4.2 Test Graph

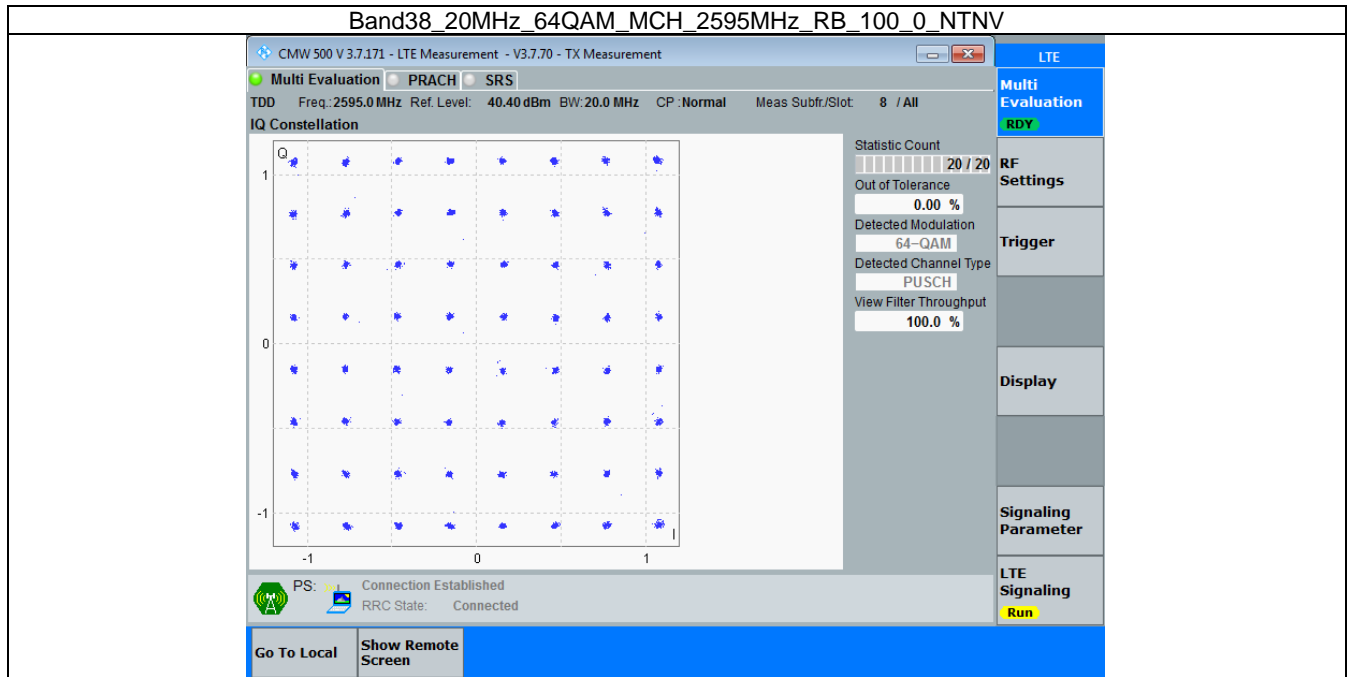


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4. 99% & 26dB Bandwidth

4.1 Band38_OBW

4.1.1 Test Result

Band: 38 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2572.5	25	0	4.539	Pass
		2595	25	0	4.537	Pass
		2617.5	25	0	4.542	Pass
	16QAM	2572.5	25	0	4.546	Pass
		2595	25	0	4.525	Pass
		2617.5	25	0	4.538	Pass
	64QAM	2572.5	25	0	4.518	Pass
		2595	25	0	4.536	Pass
		2617.5	25	0	4.543	Pass
10	QPSK	2575	50	0	9.077	Pass
		2595	50	0	9.053	Pass
		2615	50	0	9.078	Pass
	16QAM	2575	50	0	9.103	Pass
		2595	50	0	9.052	Pass
		2615	50	0	9.083	Pass
	64QAM	2575	50	0	9.069	Pass
		2595	50	0	9.051	Pass
		2615	50	0	9.039	Pass
15	QPSK	2577.5	75	0	13.616	Pass
		2595	75	0	13.585	Pass
		2612.5	75	0	13.573	Pass
	16QAM	2577.5	75	0	13.616	Pass
		2595	75	0	13.614	Pass
		2612.5	75	0	13.650	Pass
	64QAM	2577.5	75	0	13.579	Pass
		2595	75	0	13.593	Pass
		2612.5	75	0	13.589	Pass
20	QPSK	2580	100	0	18.132	Pass
		2595	100	0	18.085	Pass
		2610	100	0	18.167	Pass
	16QAM	2580	100	0	18.079	Pass
		2595	100	0	18.108	Pass
		2610	100	0	18.104	Pass
	64QAM	2580	100	0	18.059	Pass
		2595	100	0	18.061	Pass
		2610	100	0	18.151	Pass



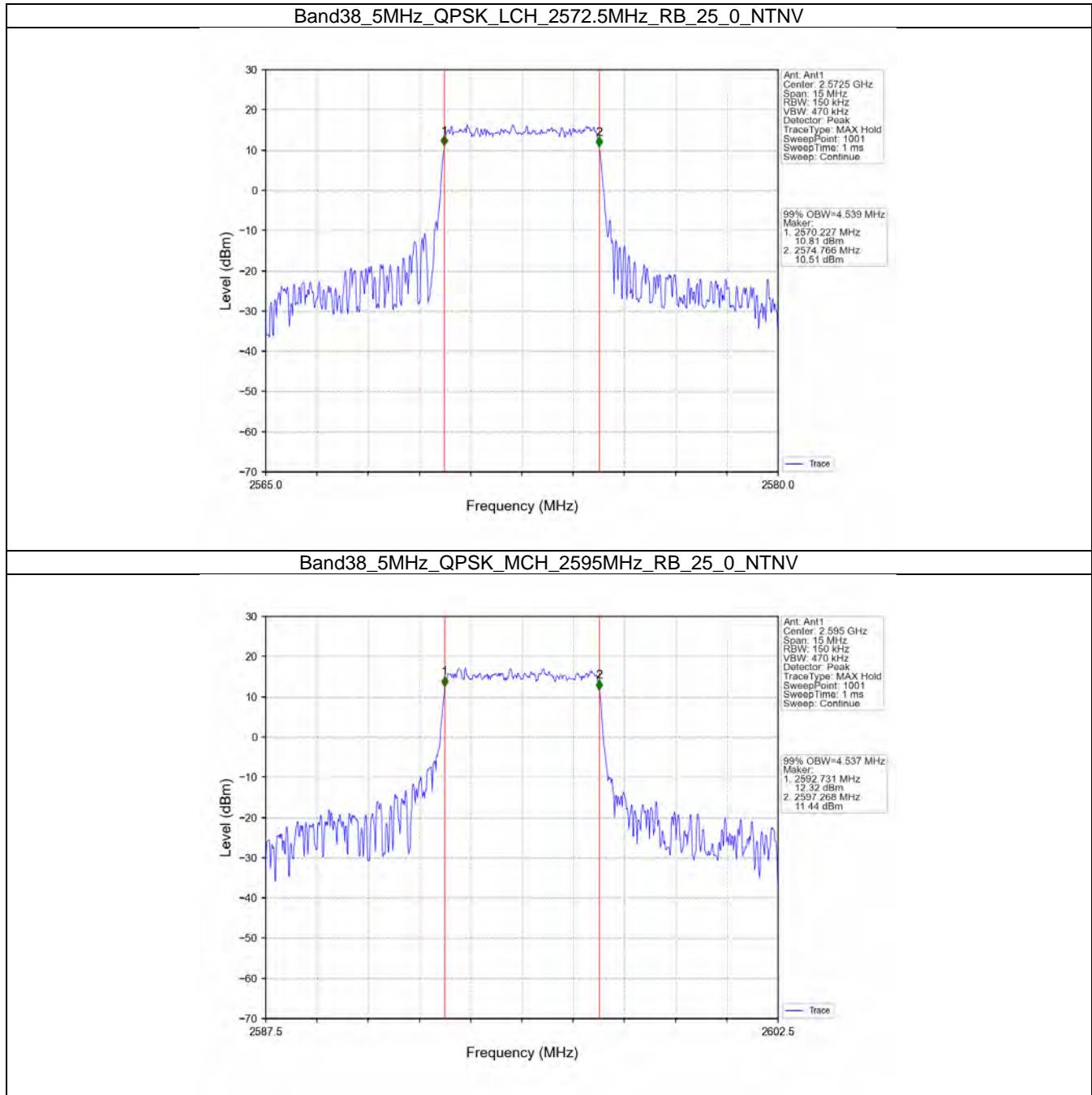
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4.1.2 Test Graph



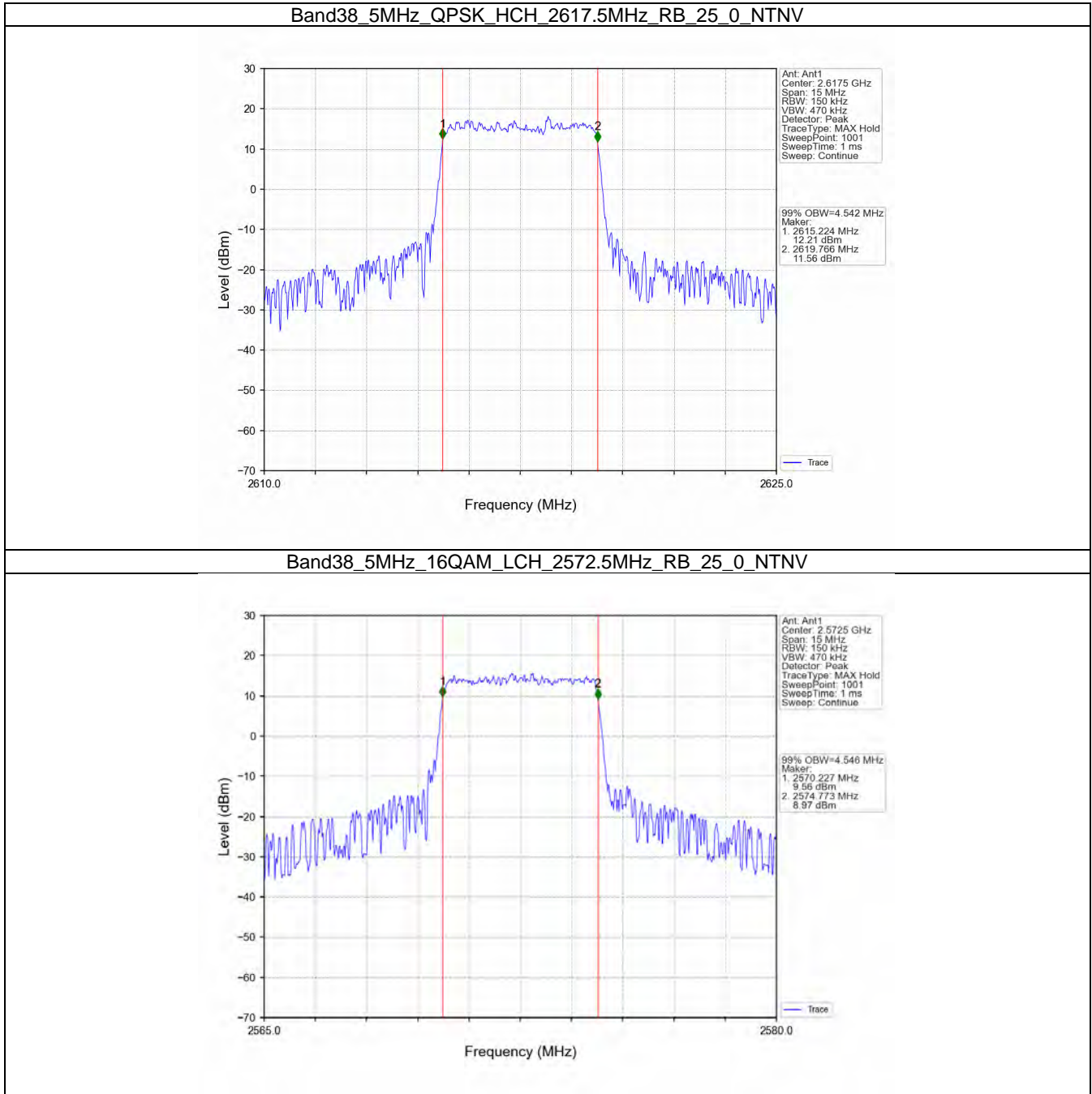
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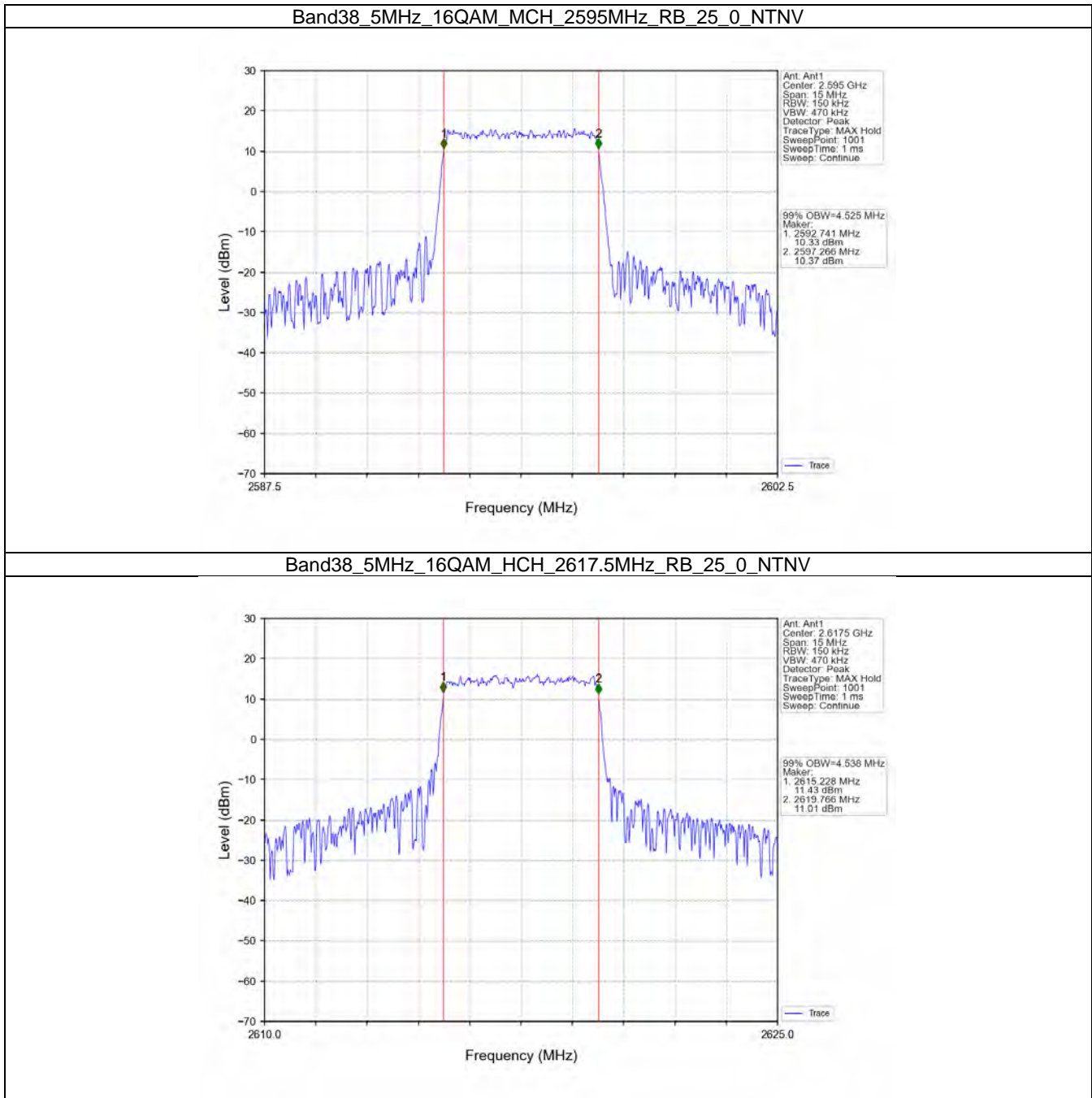


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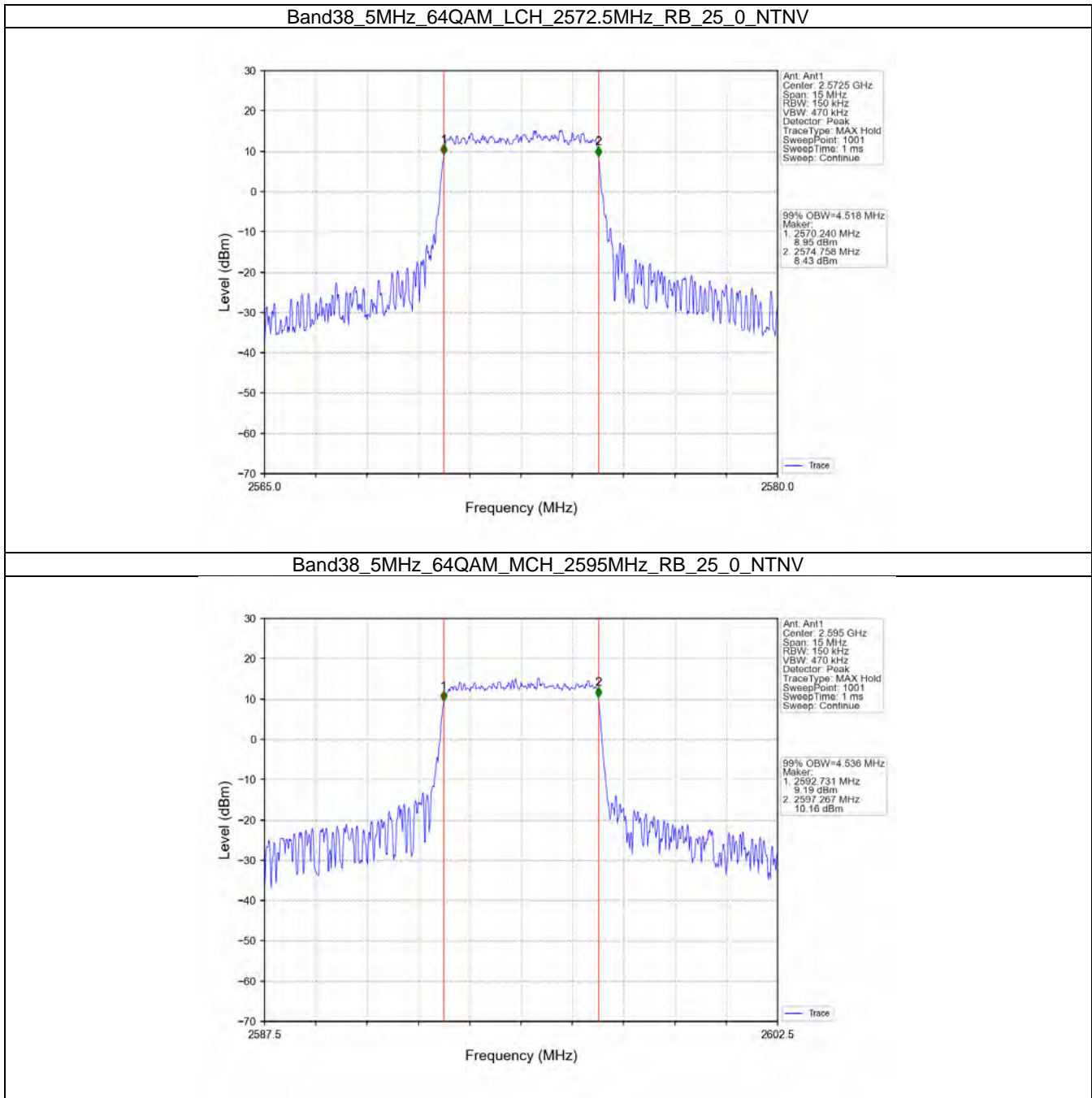
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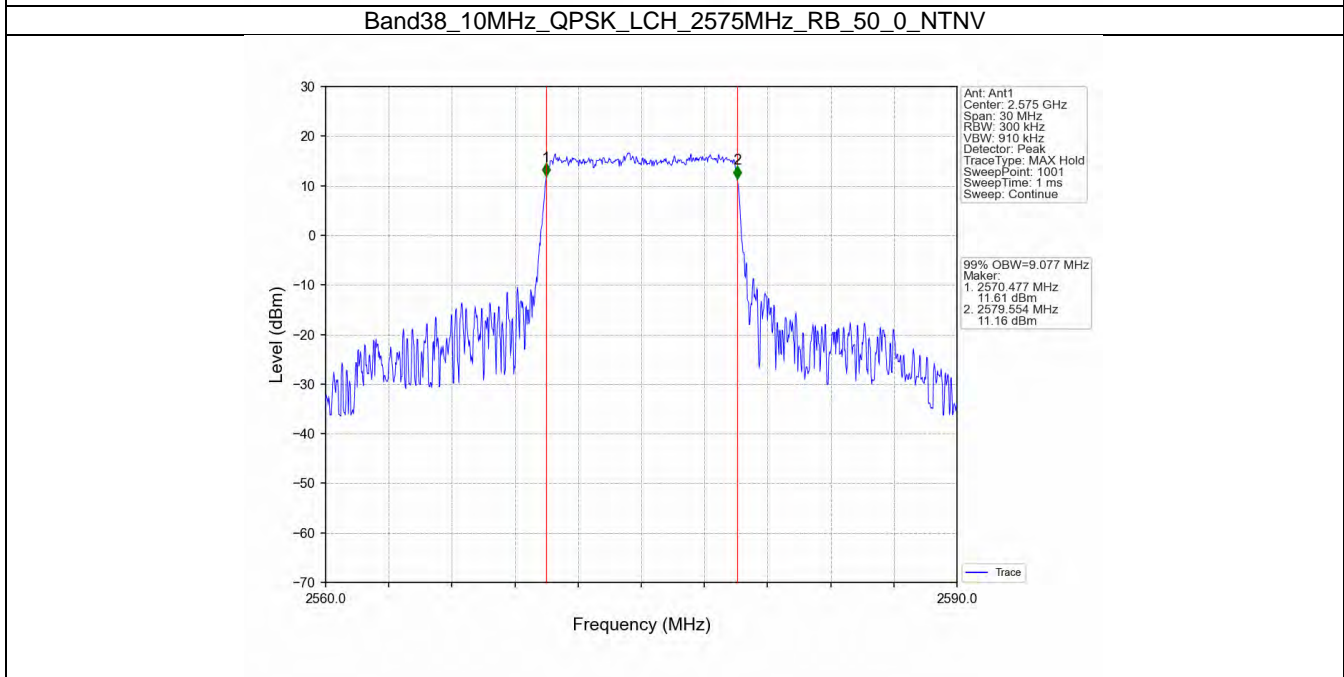
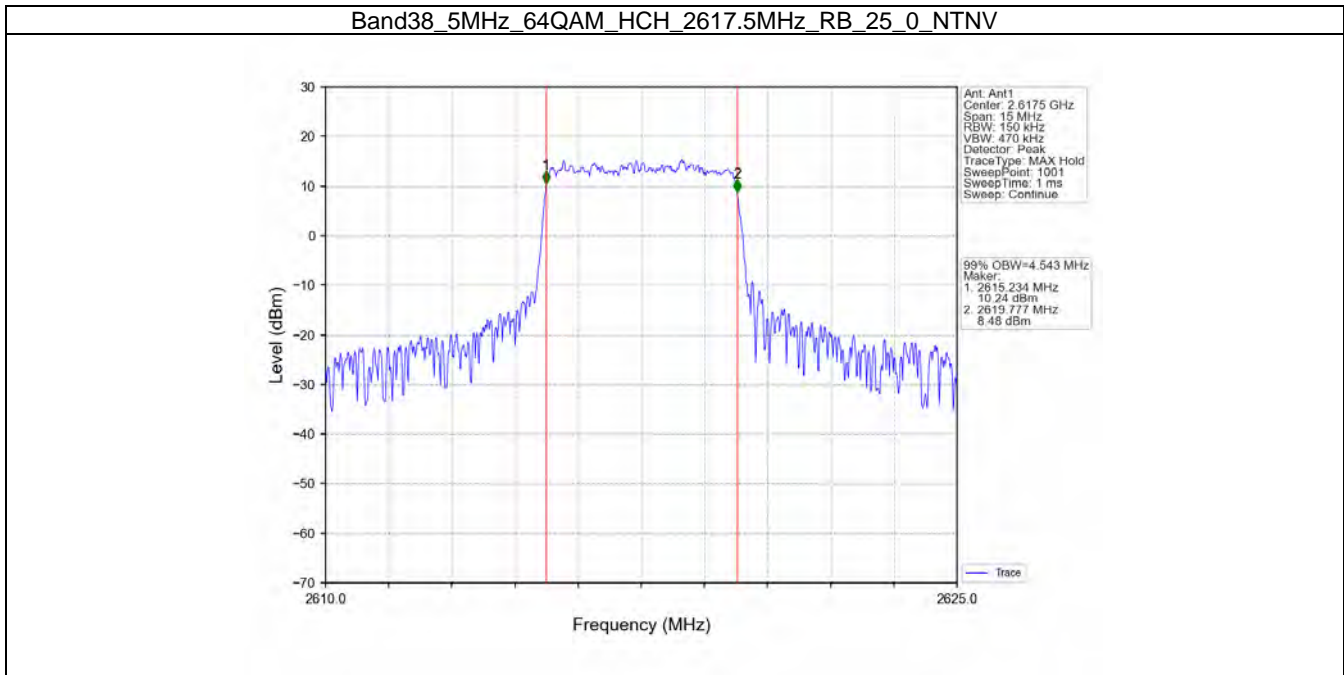


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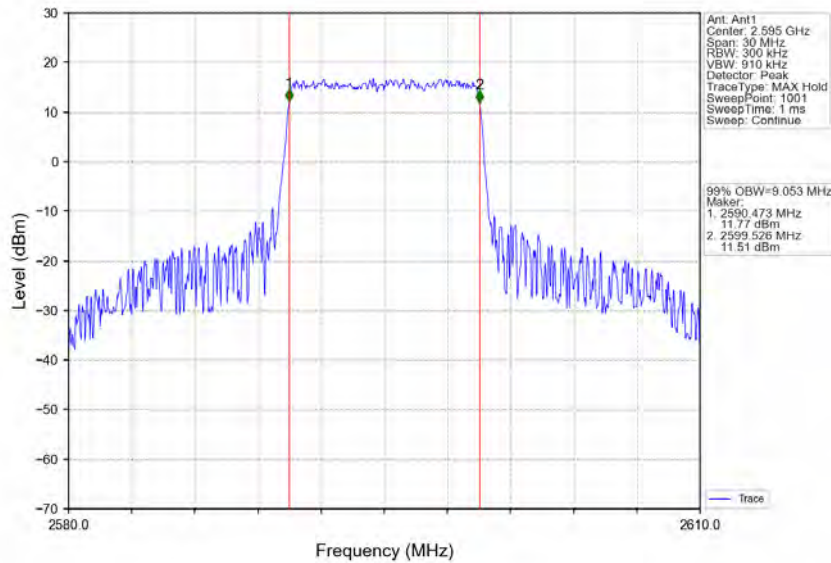
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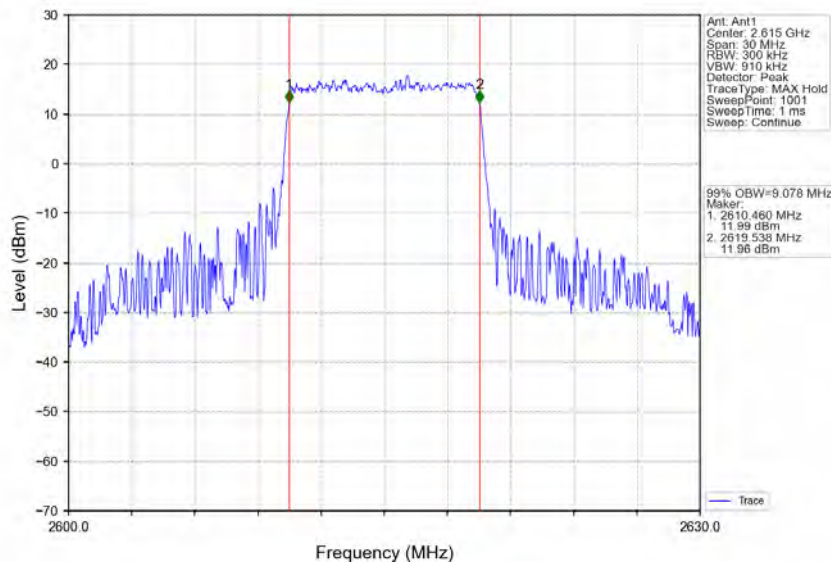
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Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV

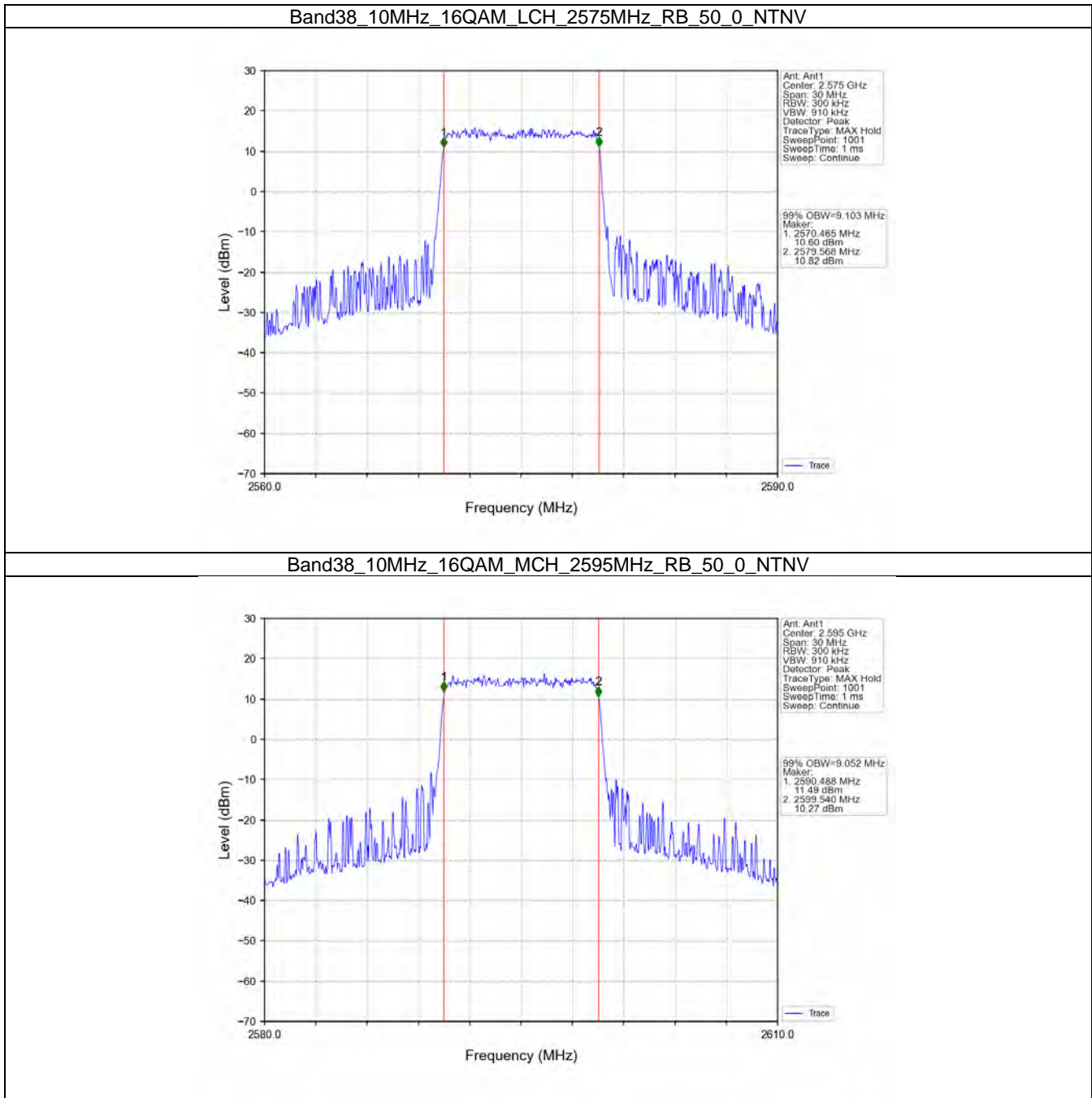


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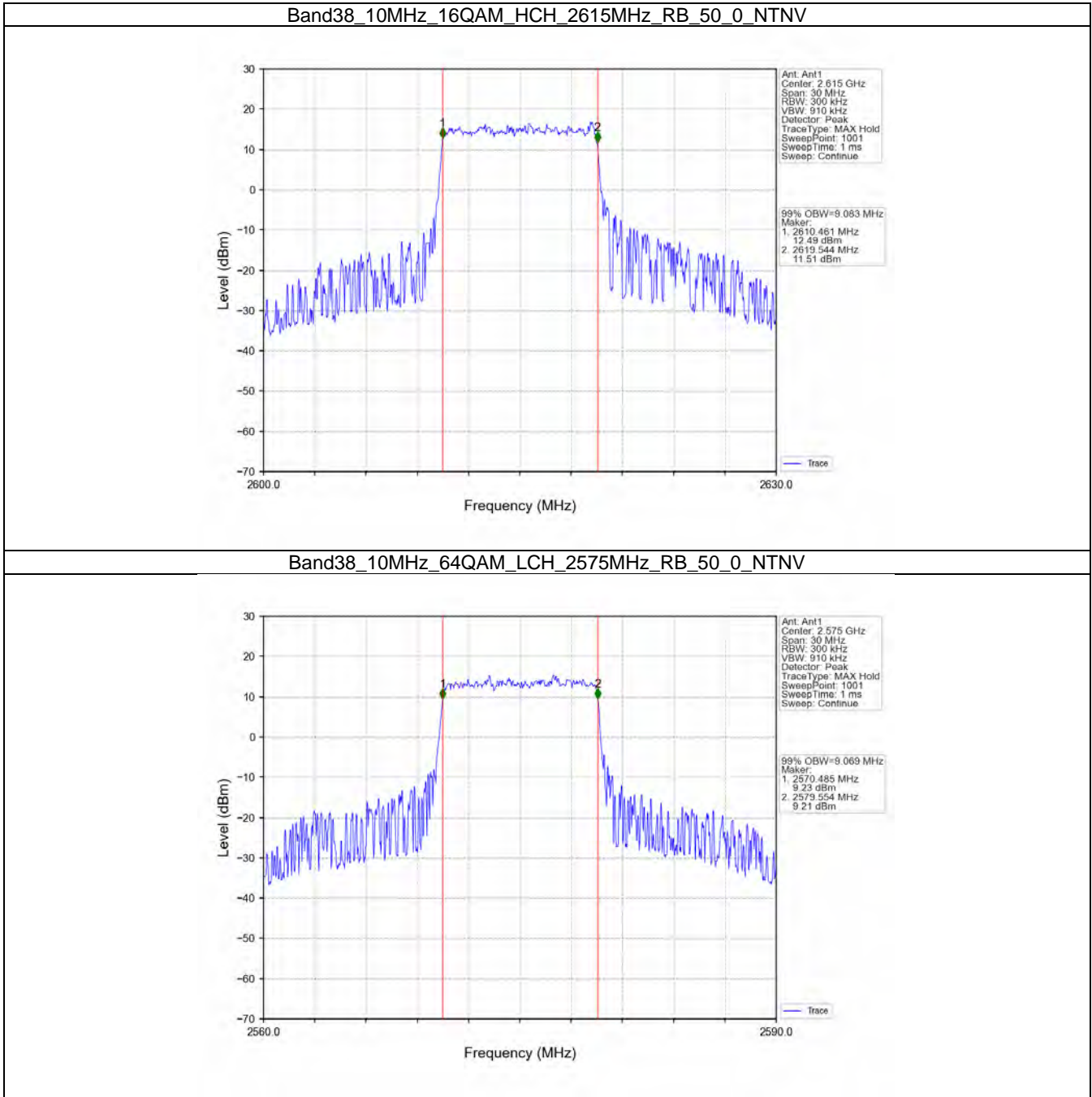


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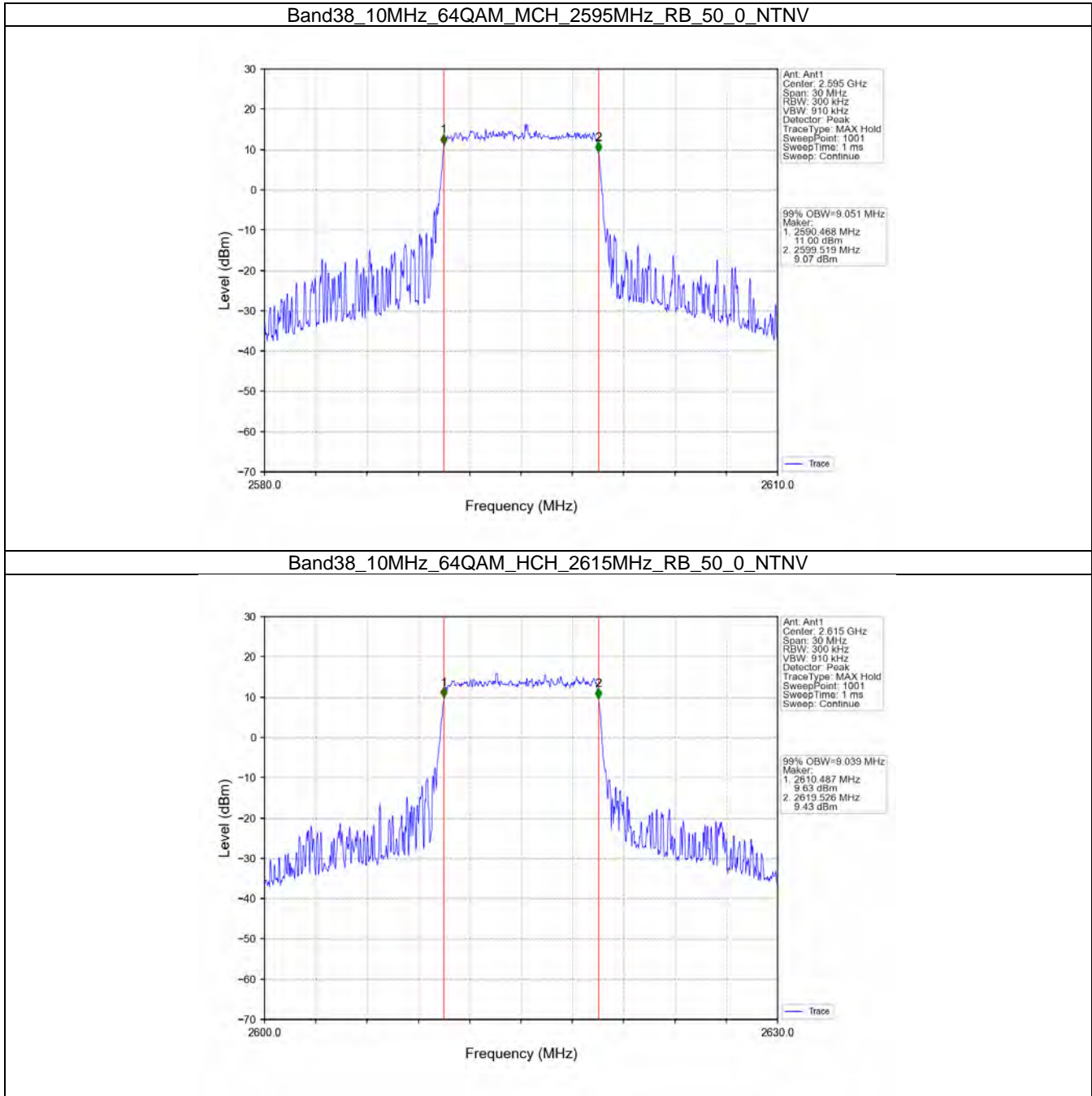


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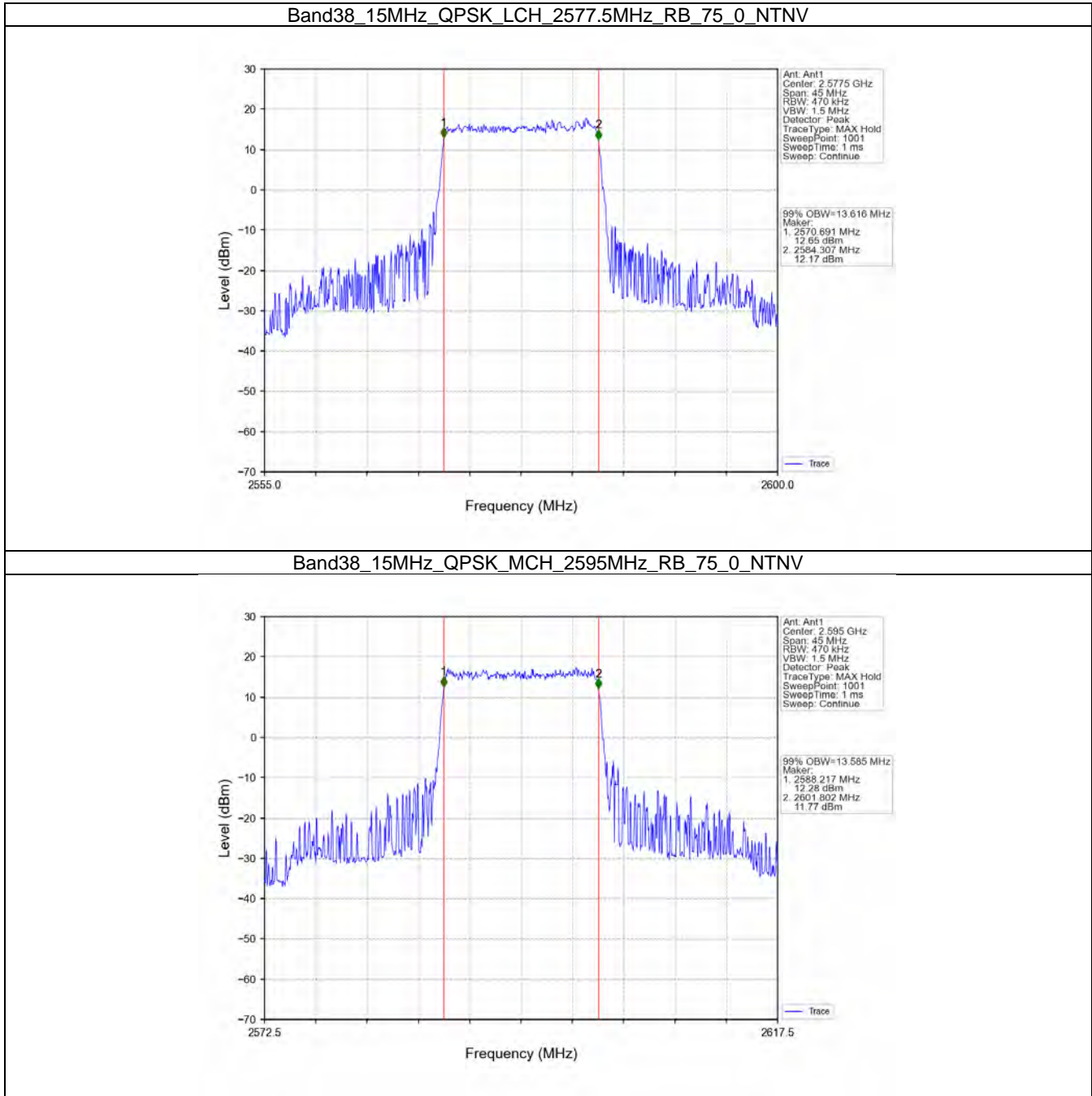


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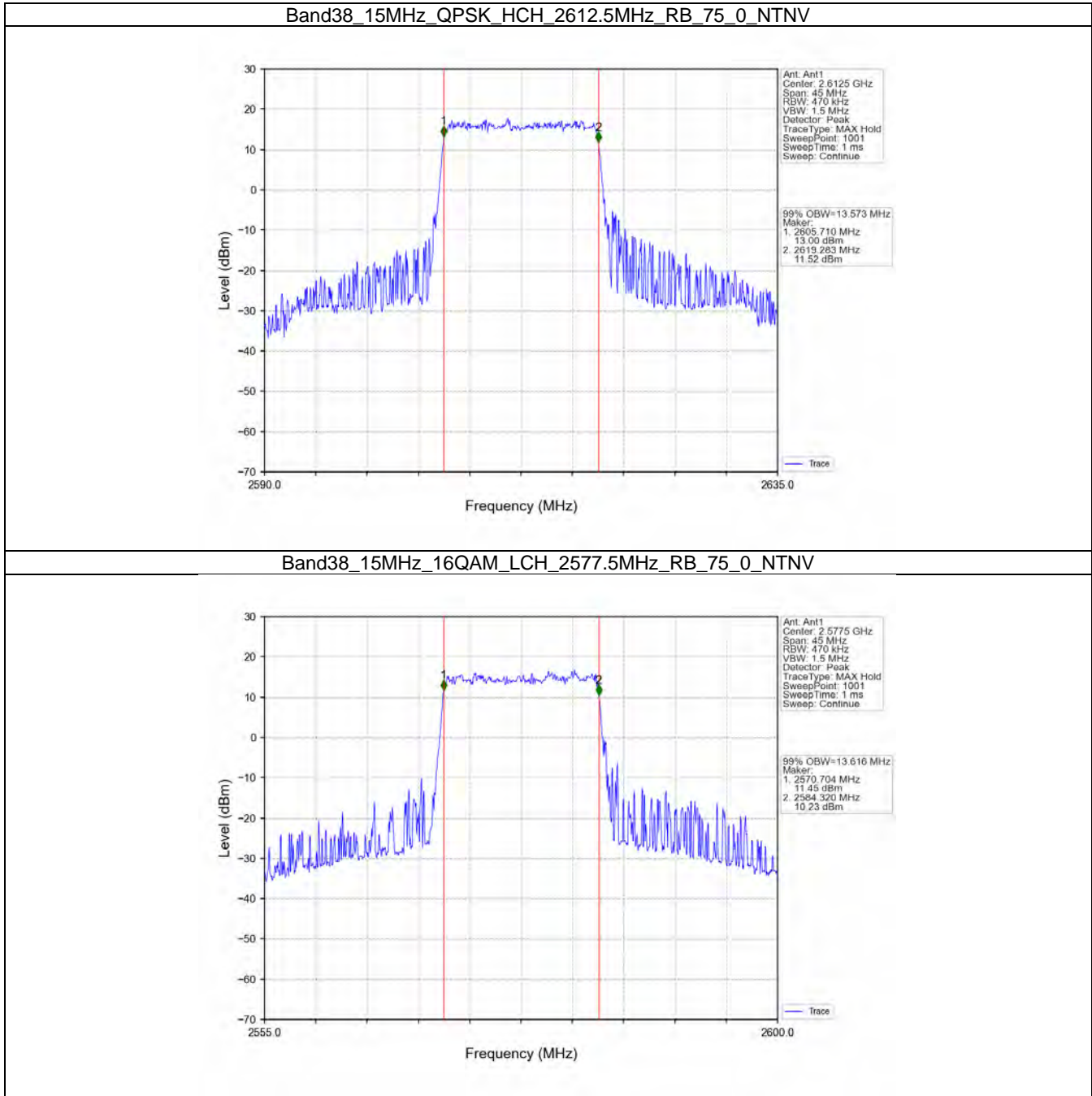


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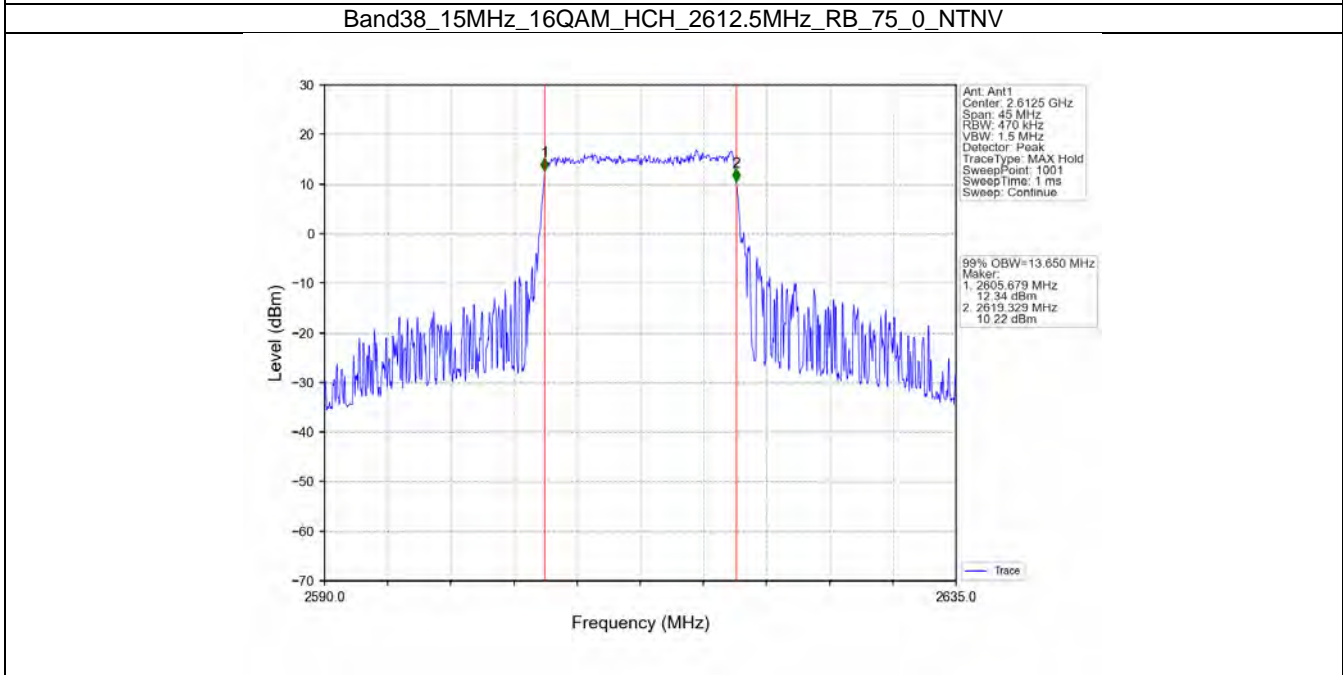
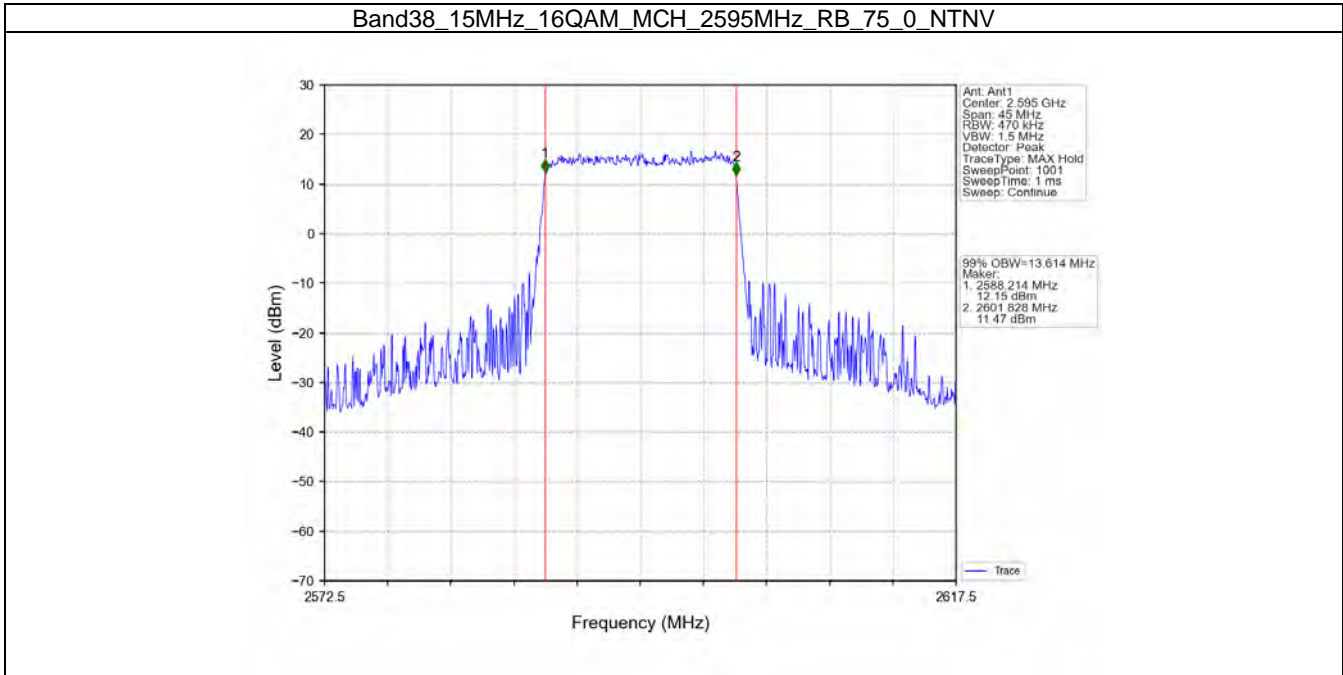
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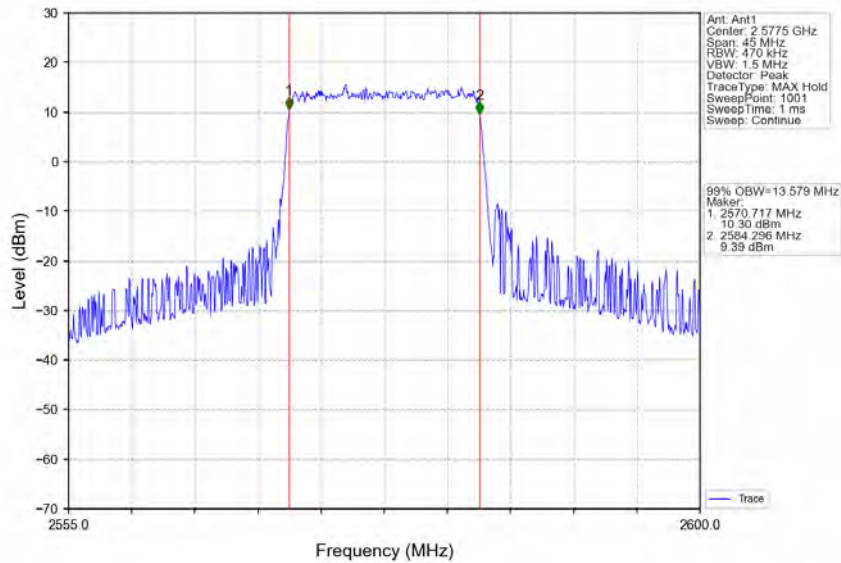
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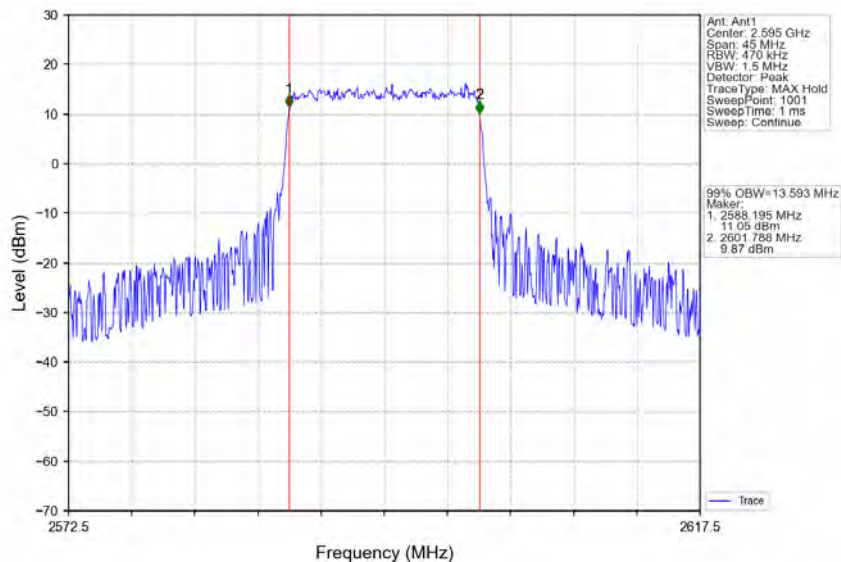
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Band38_15MHz_64QAM_MCH_2595MHz_RB_75_0_NTNV



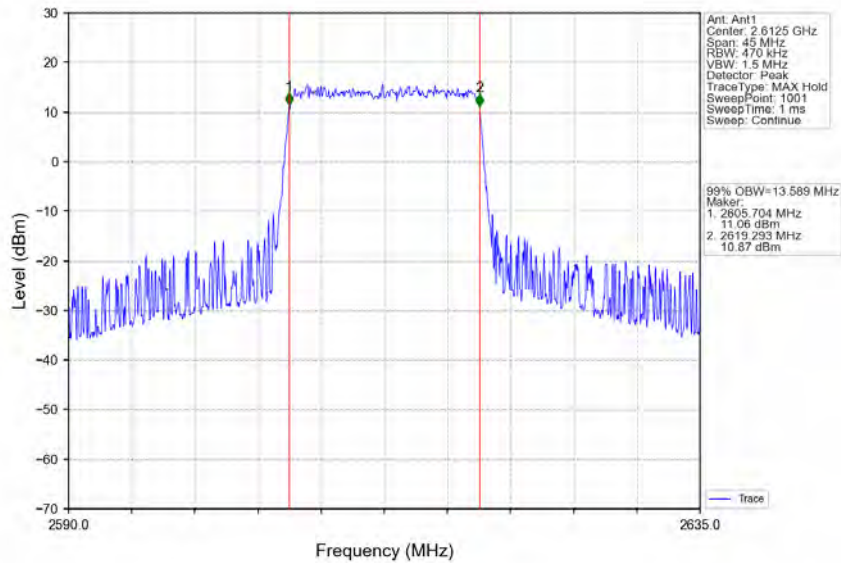
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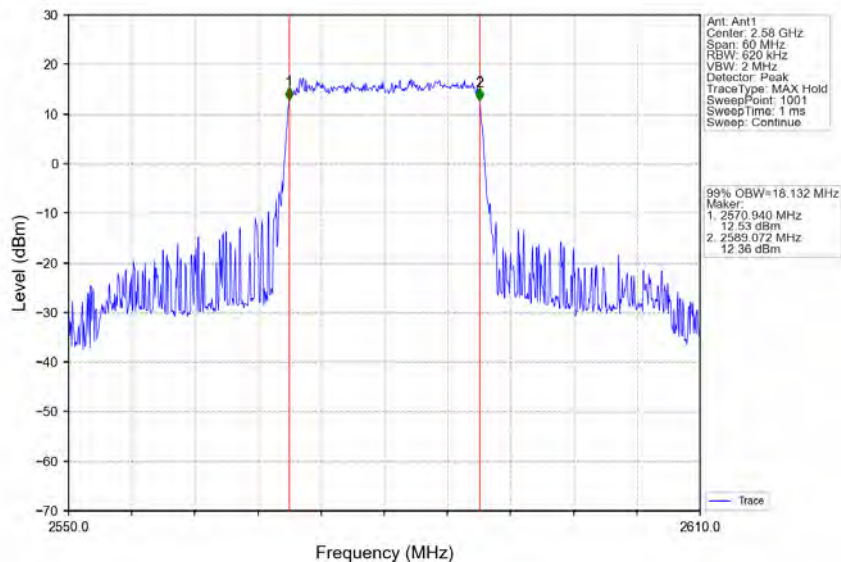
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Band38_15MHz_64QAM_HCH_2612.5MHz_RB_75_0_NTNV



Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV

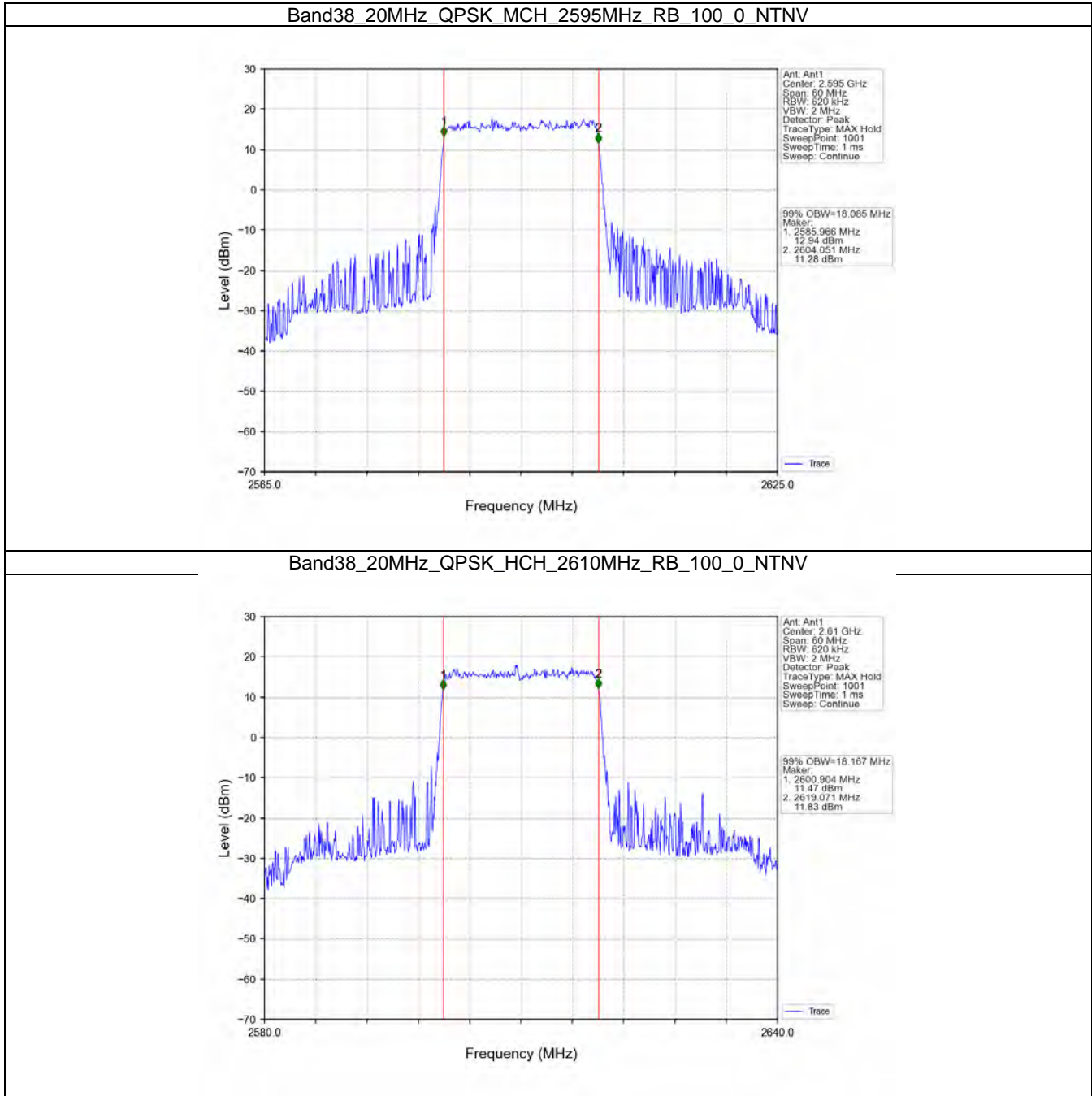


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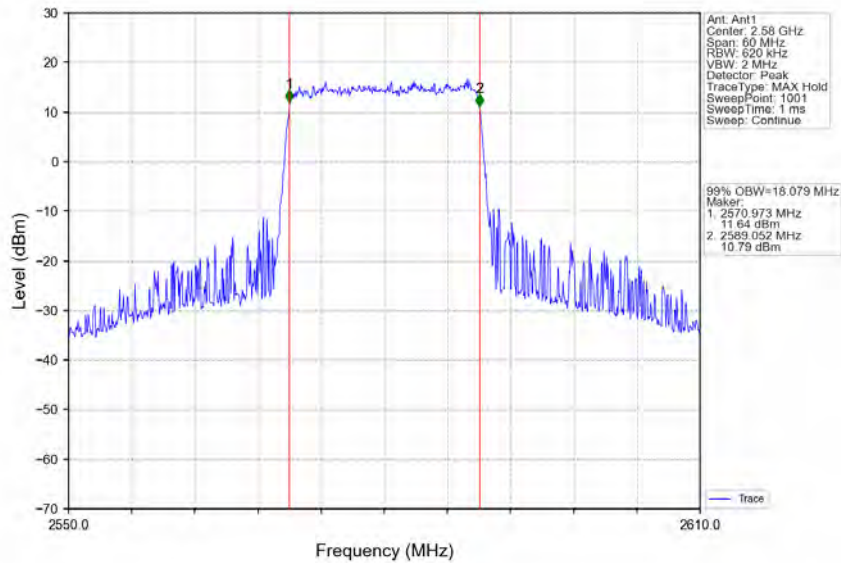
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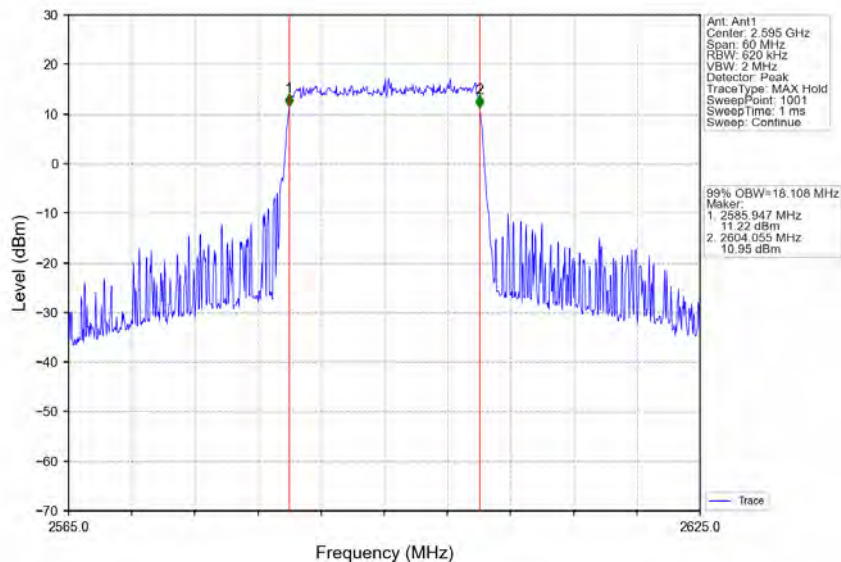
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Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV

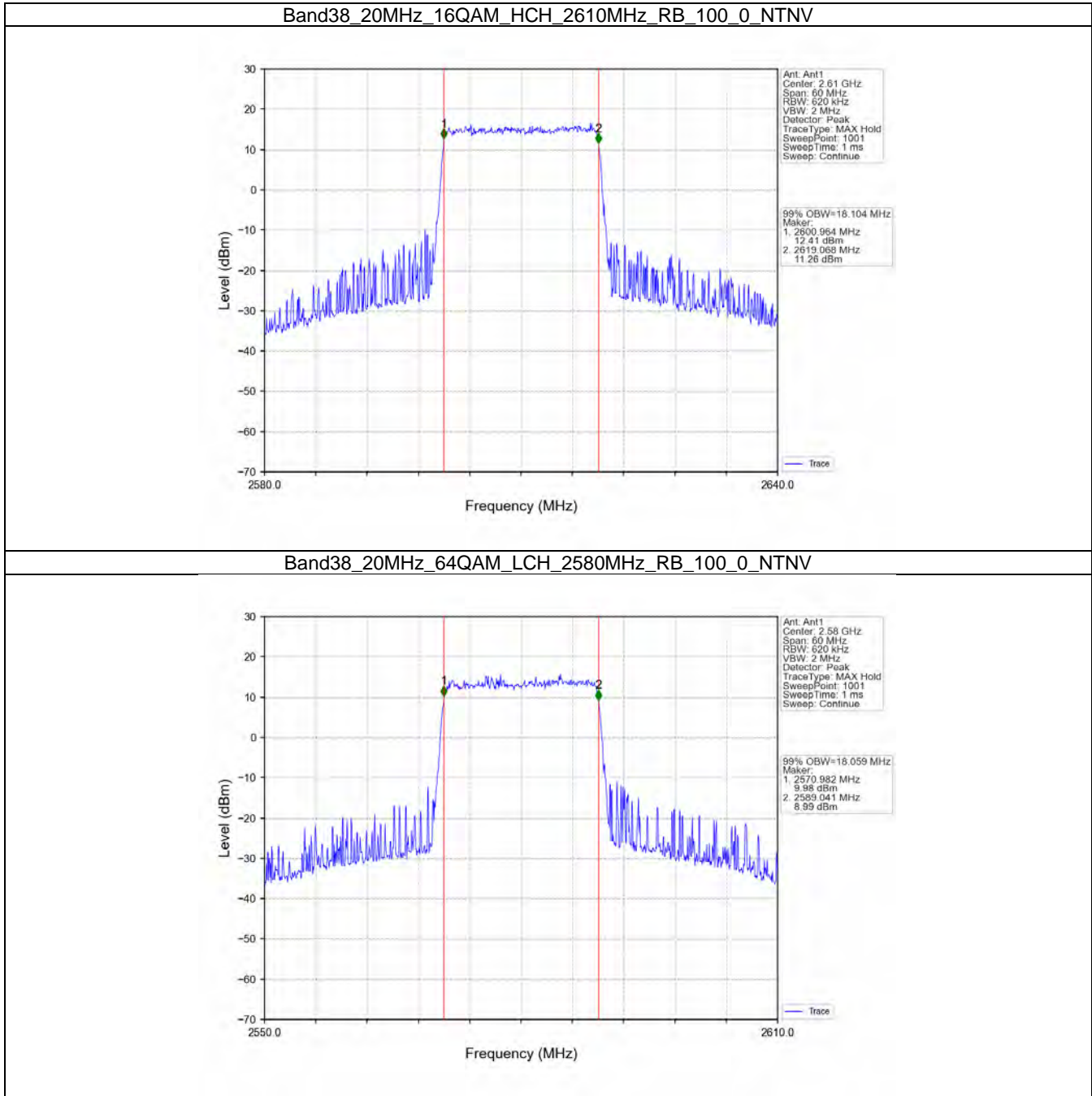


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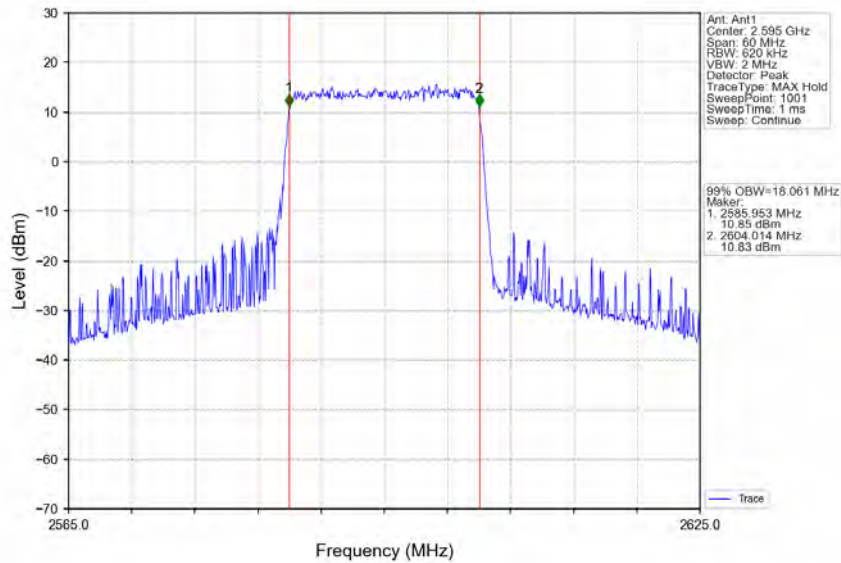
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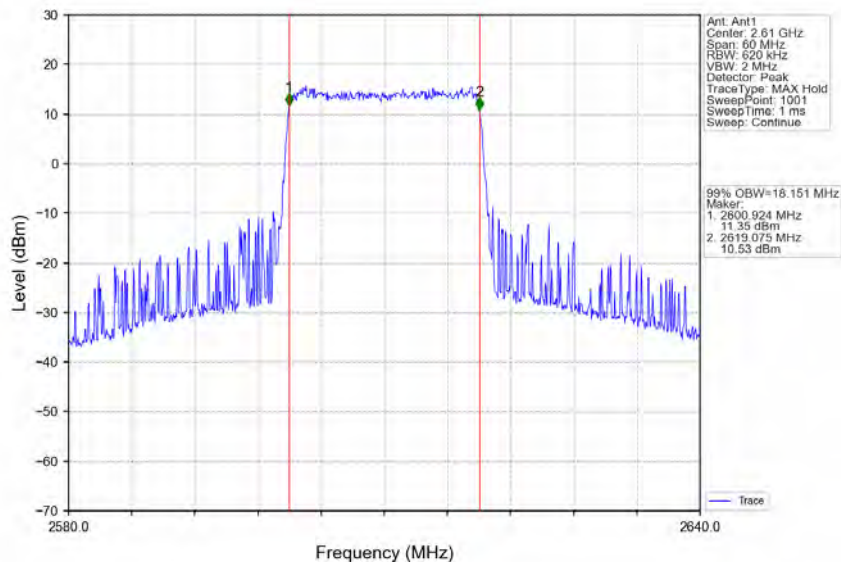
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Band38_20MHz_64QAM_HCH_2610MHz_RB_100_0_NTNV



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4.2 Band38_XDB

4.2.1 Test Result

Band: 38 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2572.5	25	0	5.157	Pass
		2595	25	0	5.276	Pass
		2617.5	25	0	5.033	Pass
	16QAM	2572.5	25	0	5.212	Pass
		2595	25	0	5.011	Pass
		2617.5	25	0	5.243	Pass
	64QAM	2572.5	25	0	5.186	Pass
		2595	25	0	5.020	Pass
		2617.5	25	0	5.147	Pass
10	QPSK	2575	50	0	10.347	Pass
		2595	50	0	9.958	Pass
		2615	50	0	10.891	Pass
	16QAM	2575	50	0	10.060	Pass
		2595	50	0	10.279	Pass
		2615	50	0	11.021	Pass
	64QAM	2575	50	0	10.824	Pass
		2595	50	0	10.168	Pass
		2615	50	0	10.146	Pass
15	QPSK	2577.5	75	0	15.193	Pass
		2595	75	0	16.011	Pass
		2612.5	75	0	16.308	Pass
	16QAM	2577.5	75	0	15.937	Pass
		2595	75	0	15.426	Pass
		2612.5	75	0	17.849	Pass
	64QAM	2577.5	75	0	16.144	Pass
		2595	75	0	16.302	Pass
		2612.5	75	0	15.365	Pass
20	QPSK	2580	100	0	20.386	Pass
		2595	100	0	20.745	Pass
		2610	100	0	20.387	Pass
	16QAM	2580	100	0	19.764	Pass
		2595	100	0	20.359	Pass
		2610	100	0	19.873	Pass
	64QAM	2580	100	0	19.703	Pass
		2595	100	0	19.849	Pass
		2610	100	0	20.908	Pass



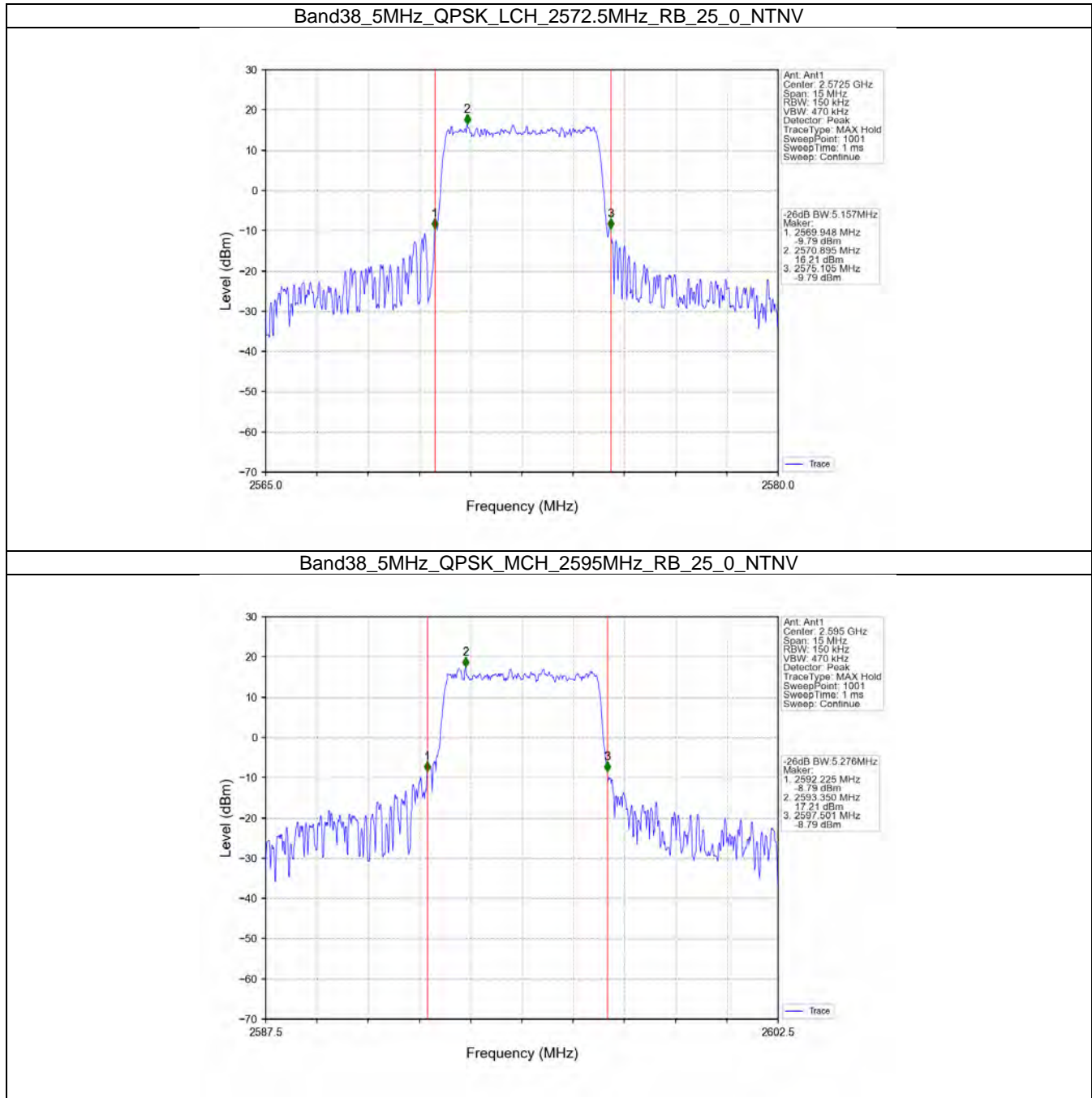
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4.2.2 Test Graph

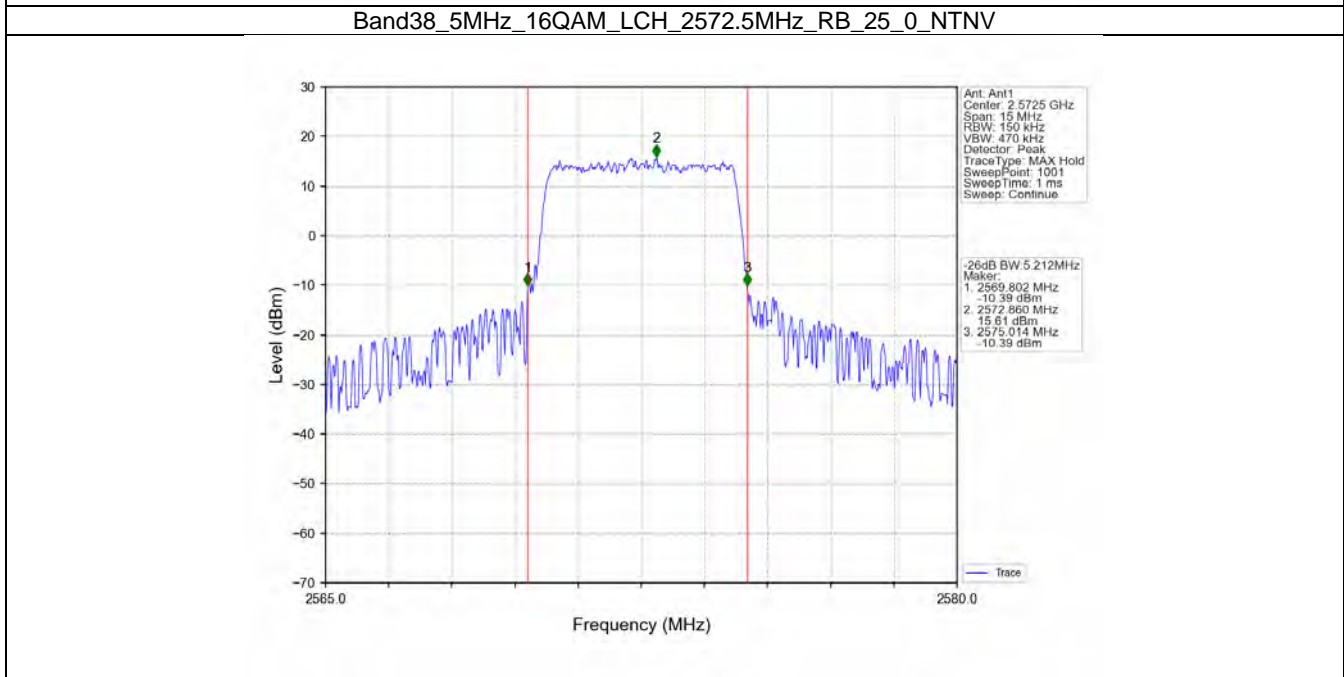
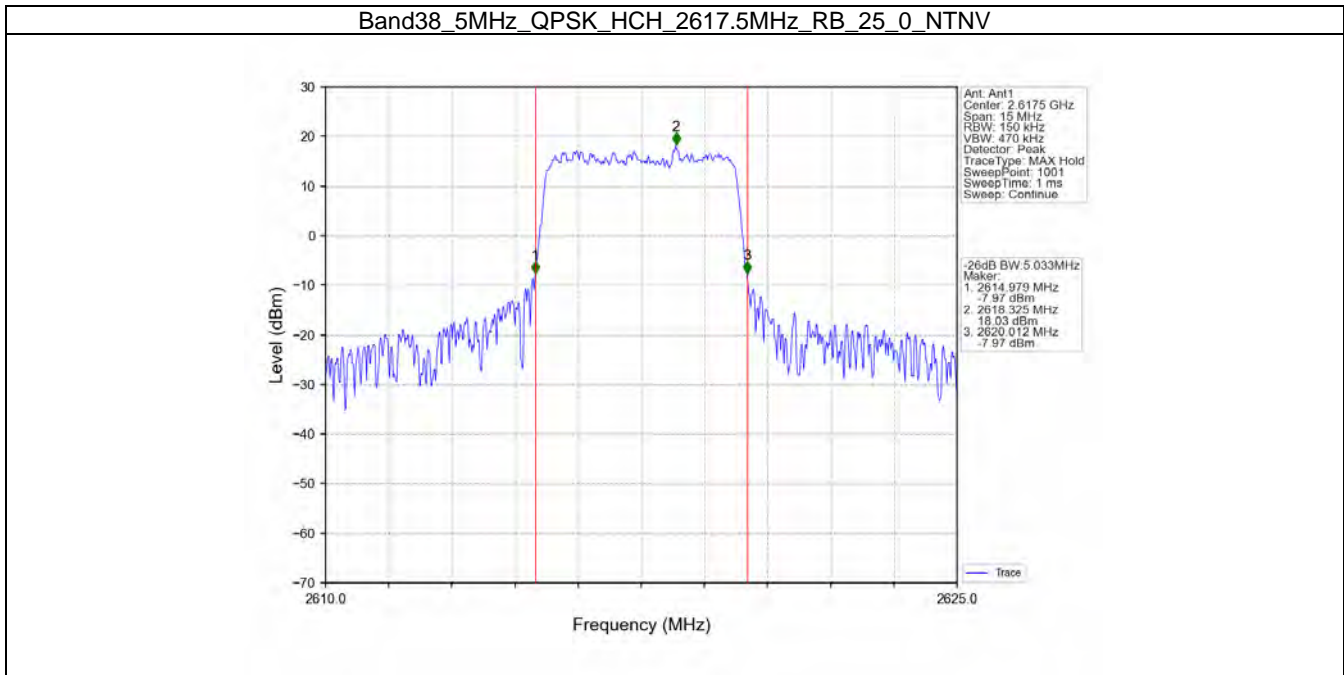


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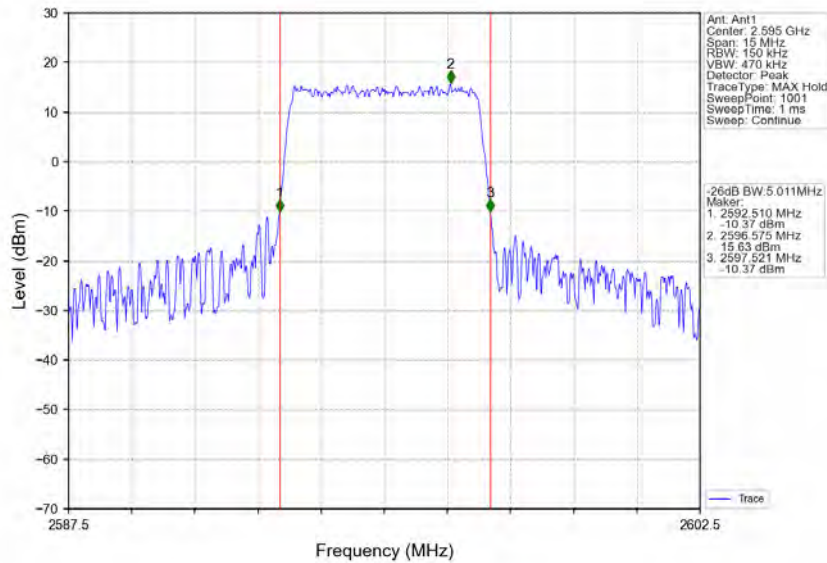
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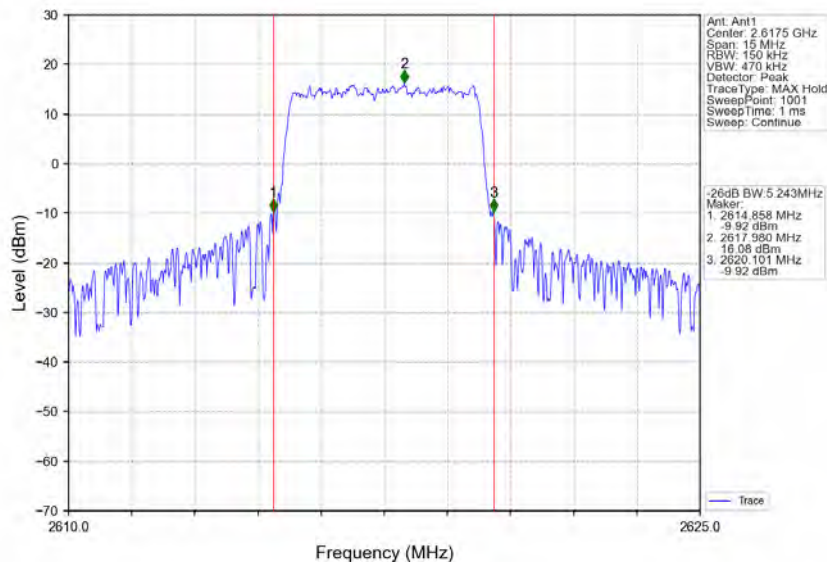
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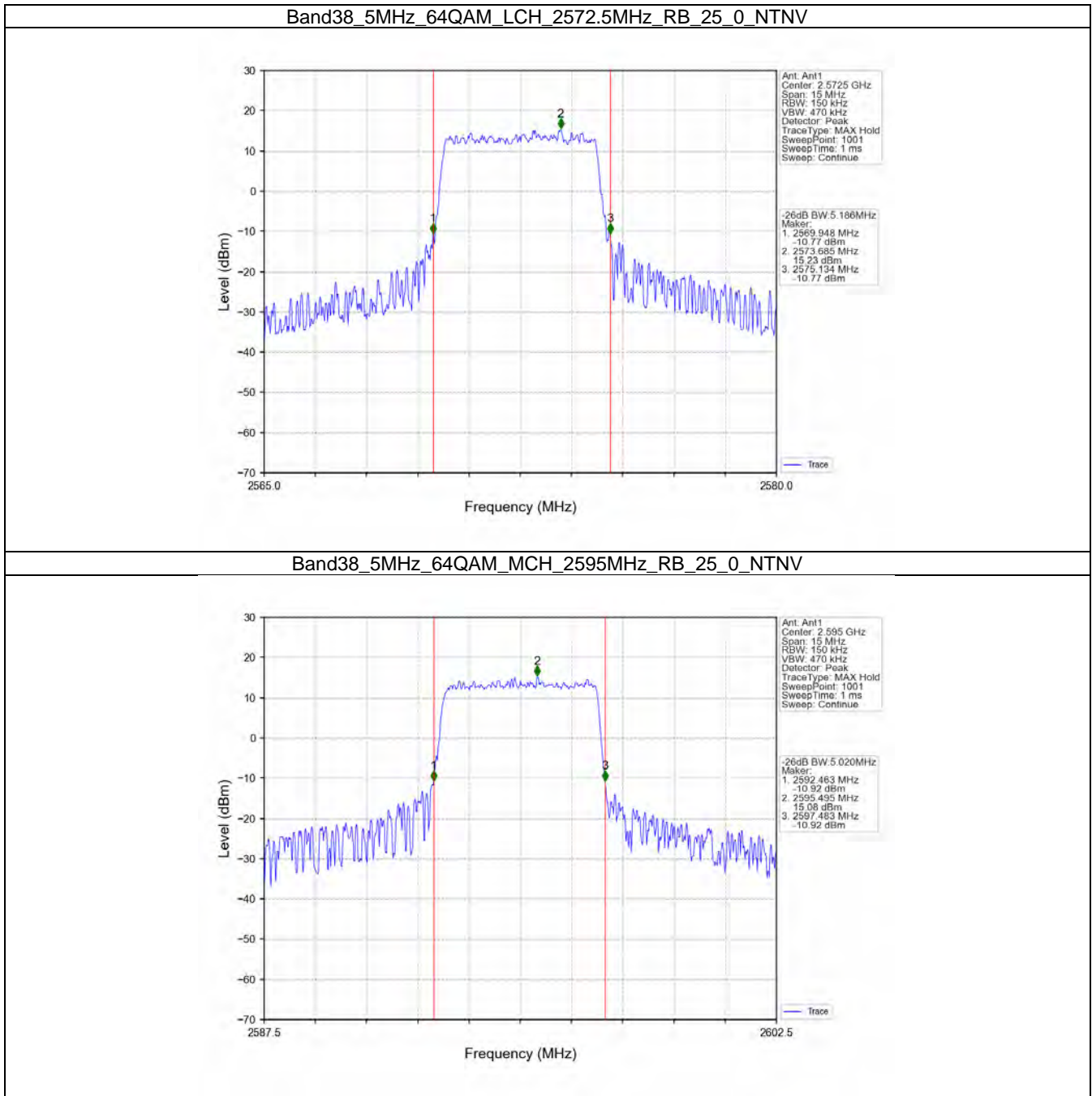


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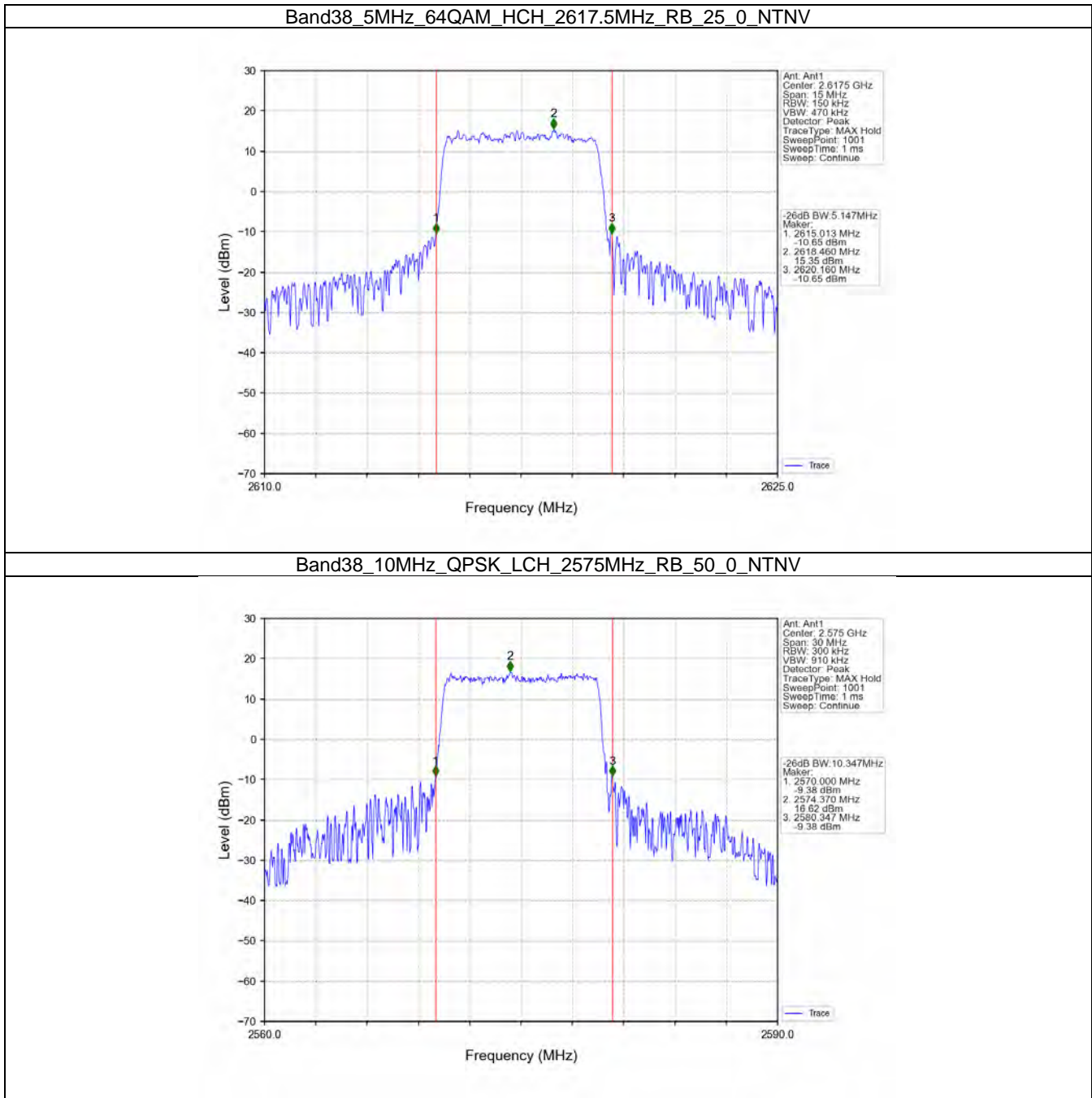


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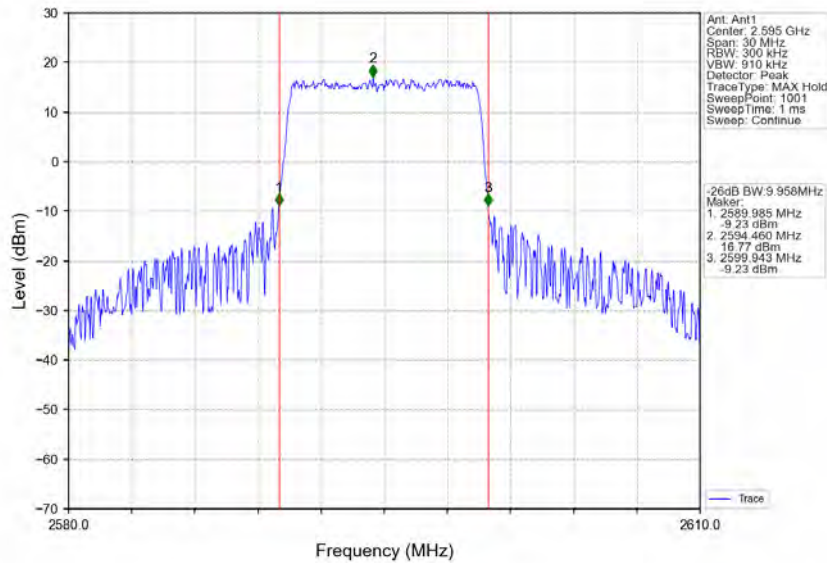
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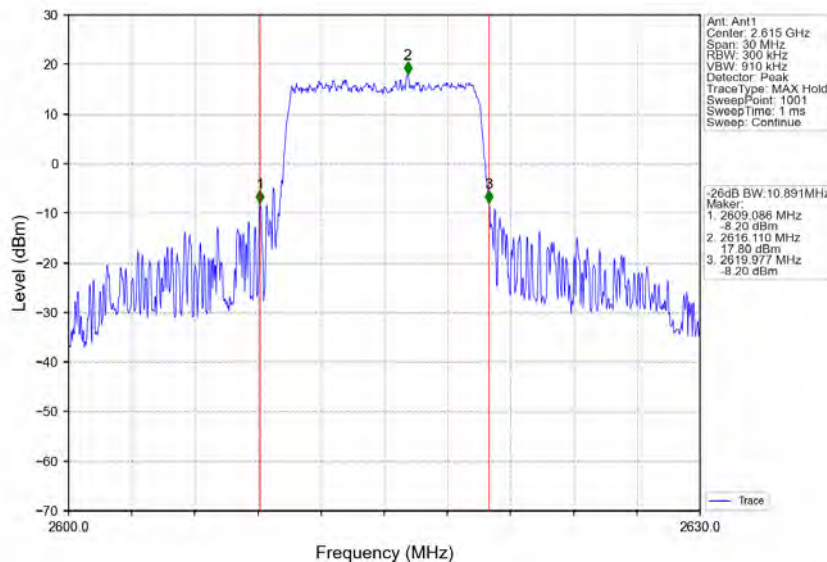
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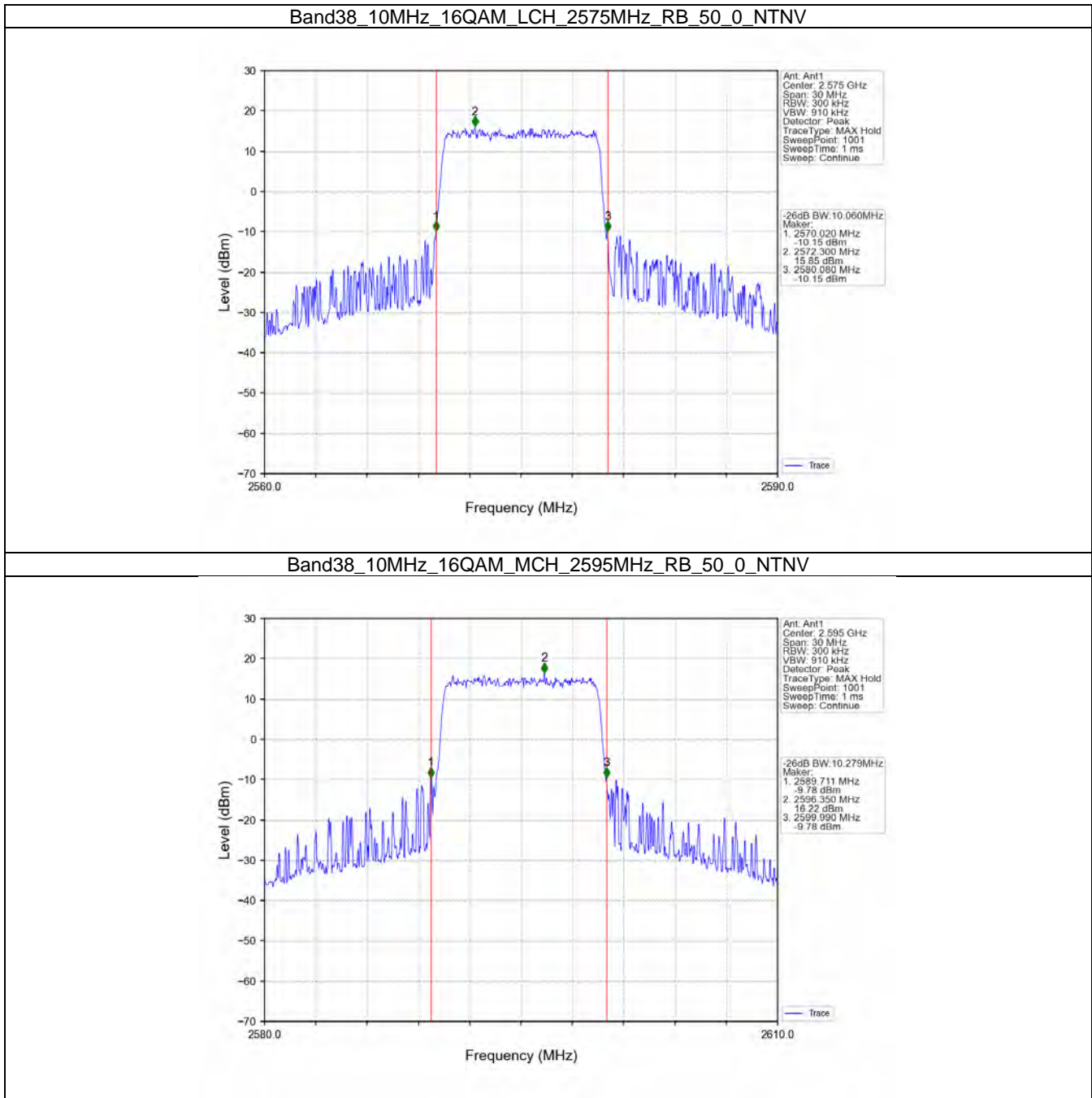


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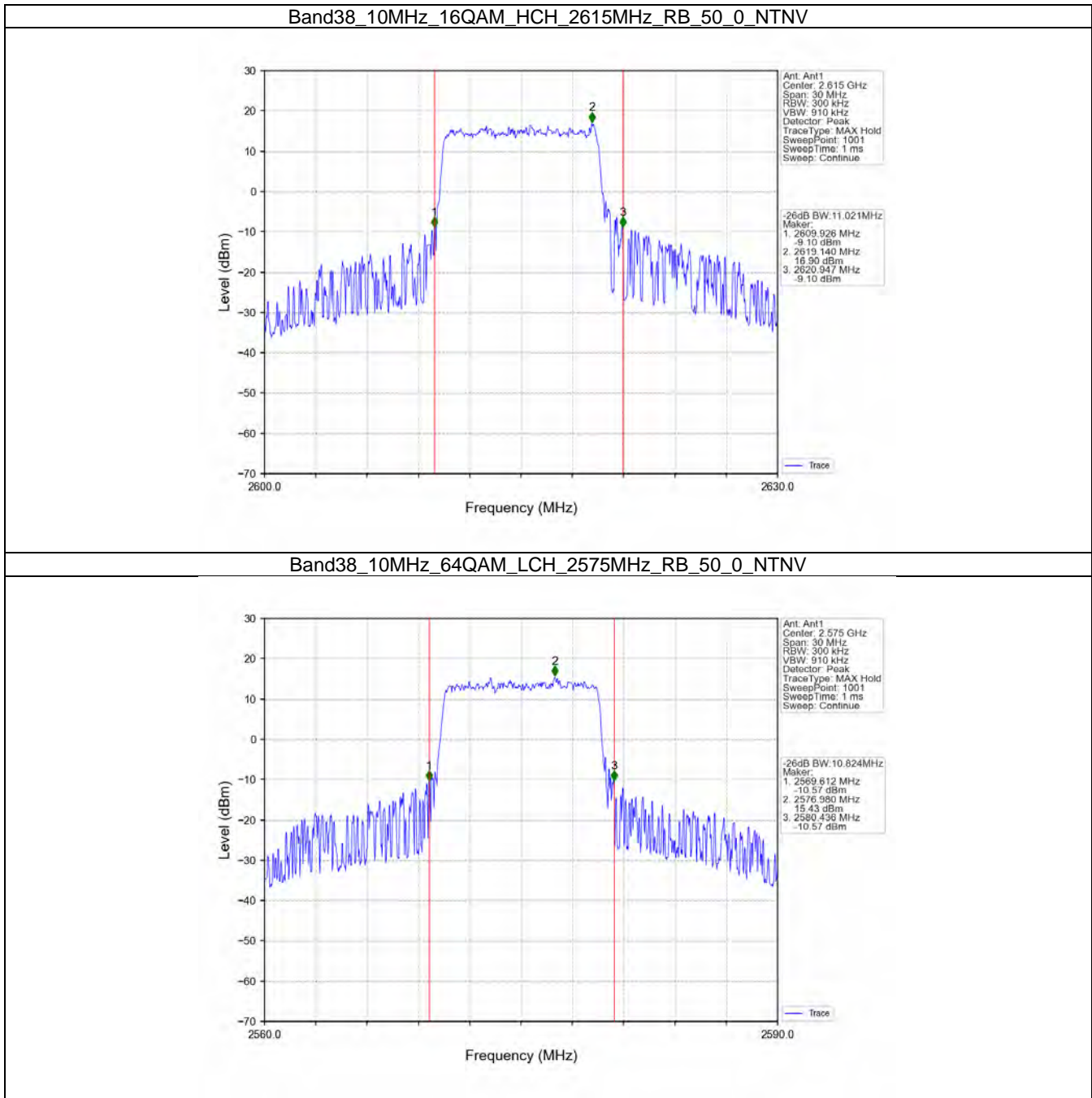


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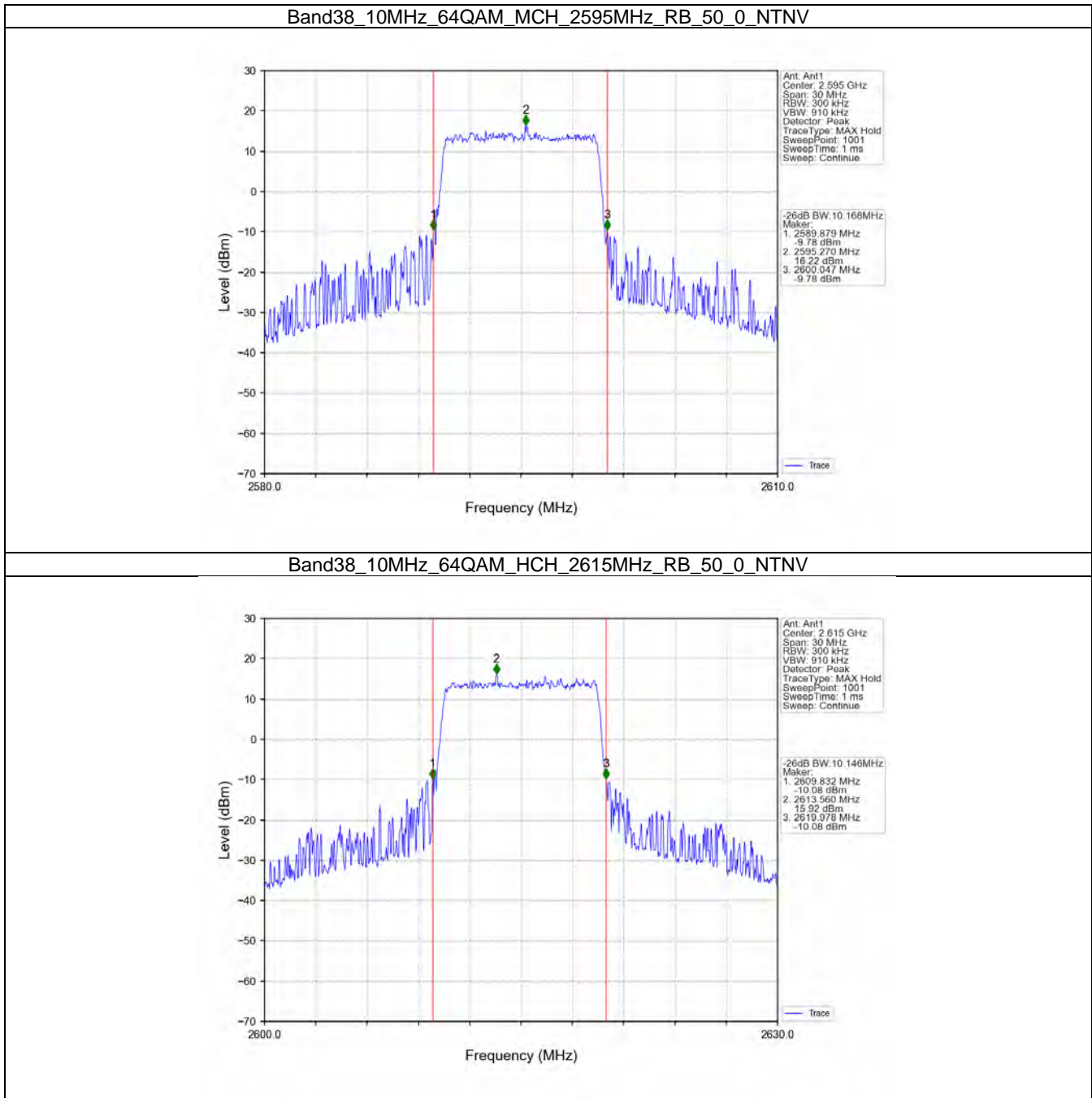


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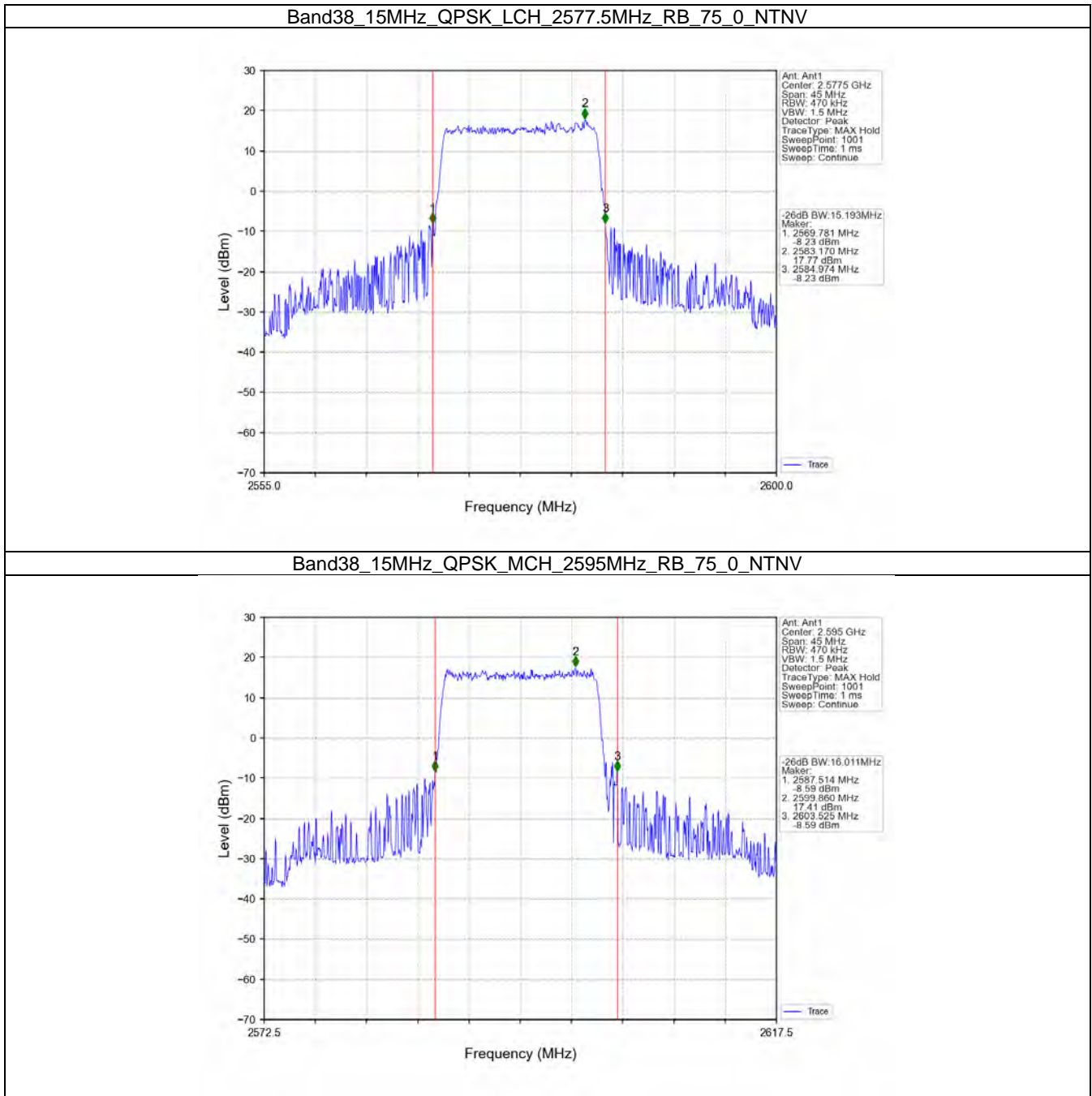


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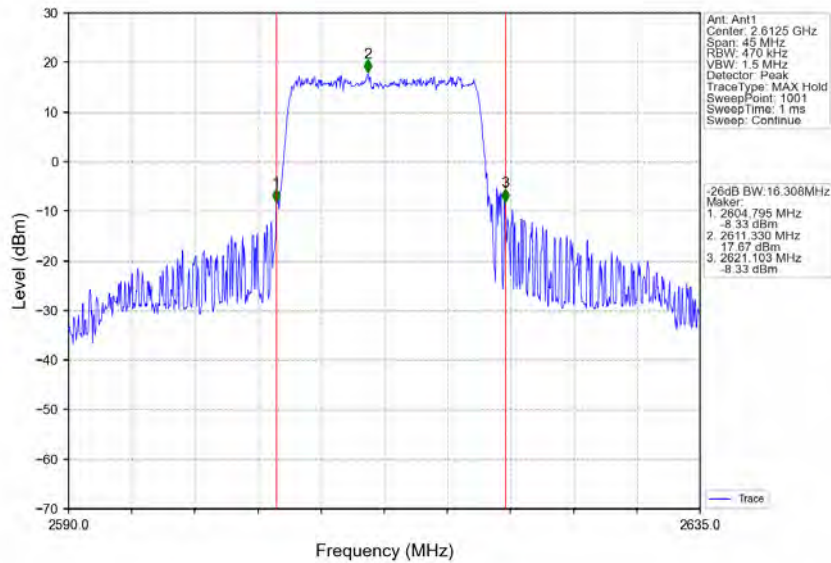
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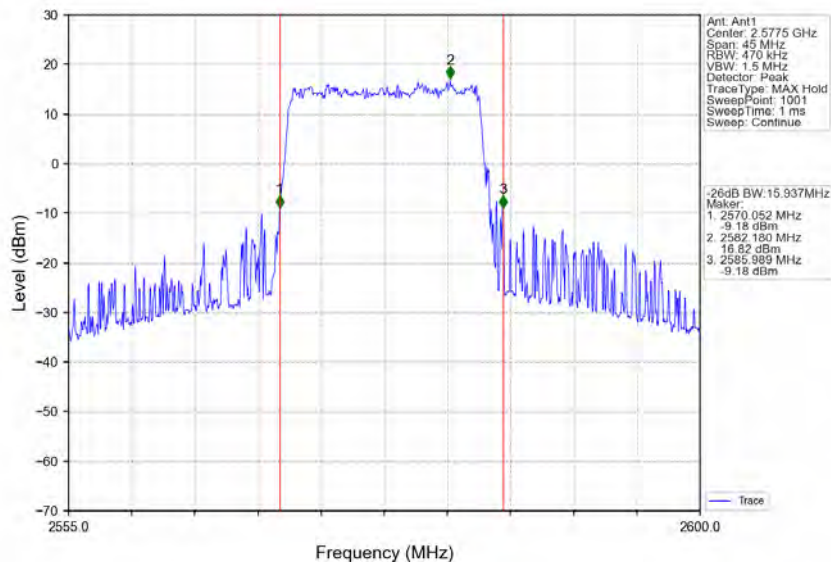
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Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV

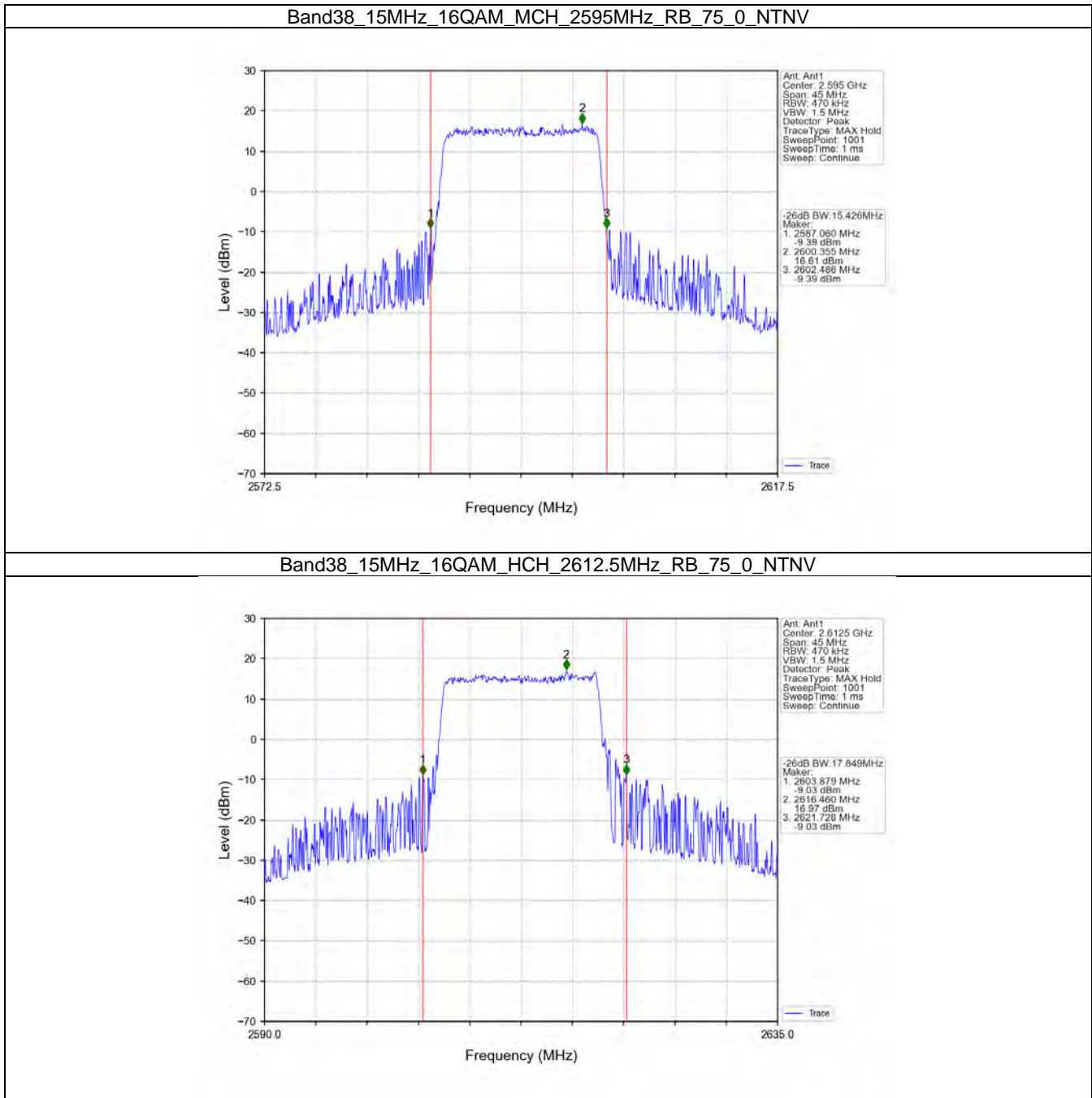


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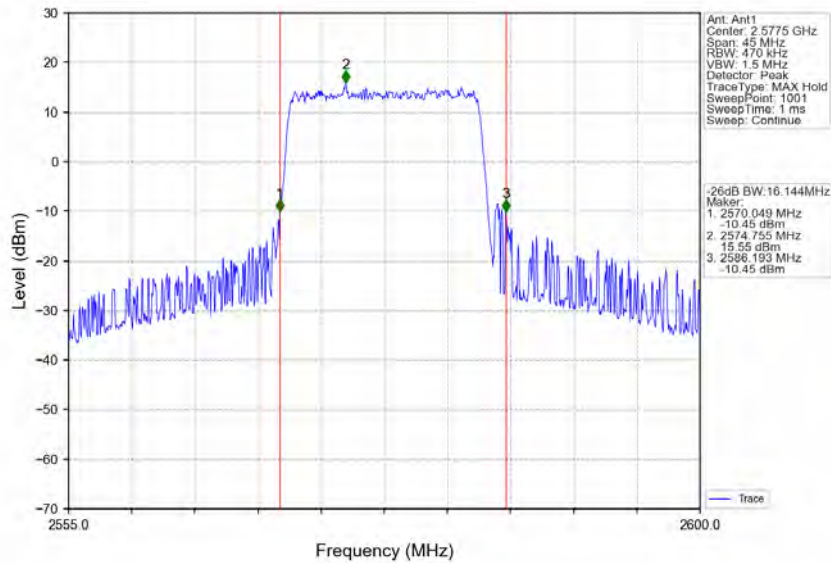
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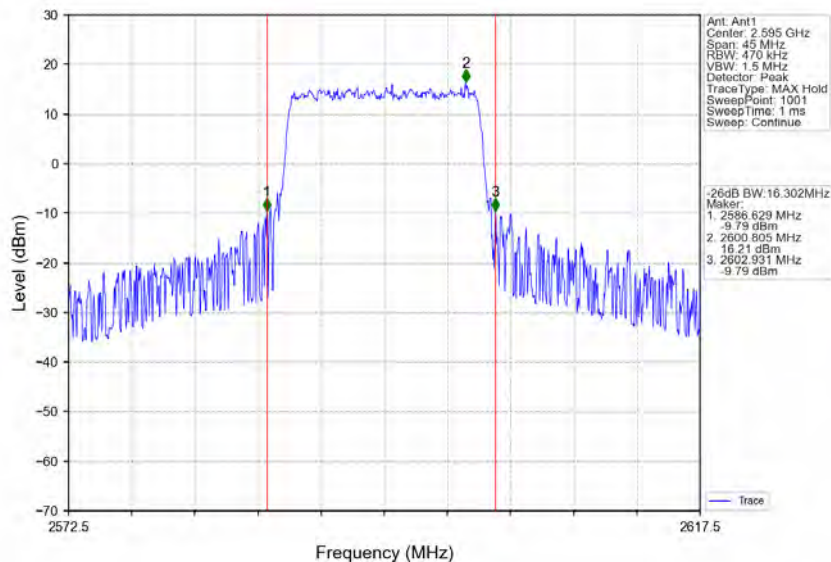
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Band38_15MHz_64QAM_MCH_2595MHz_RB_75_0_NTNV



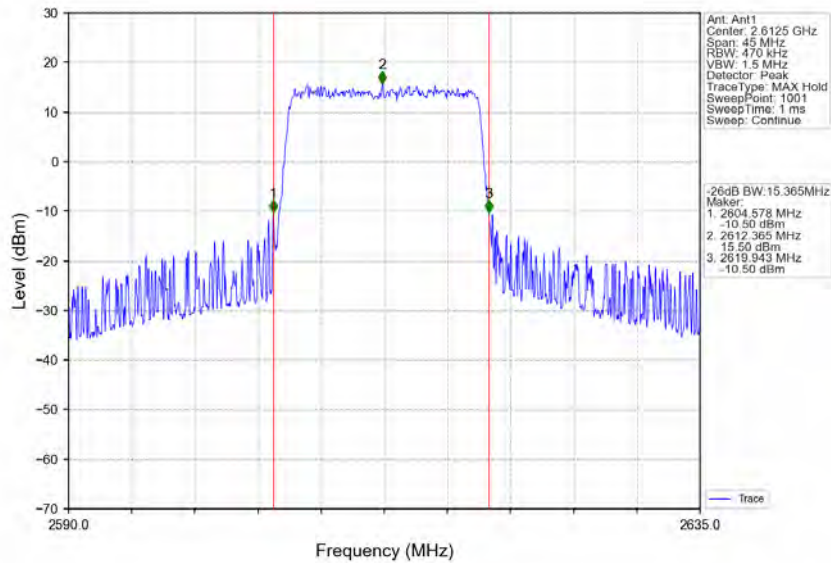
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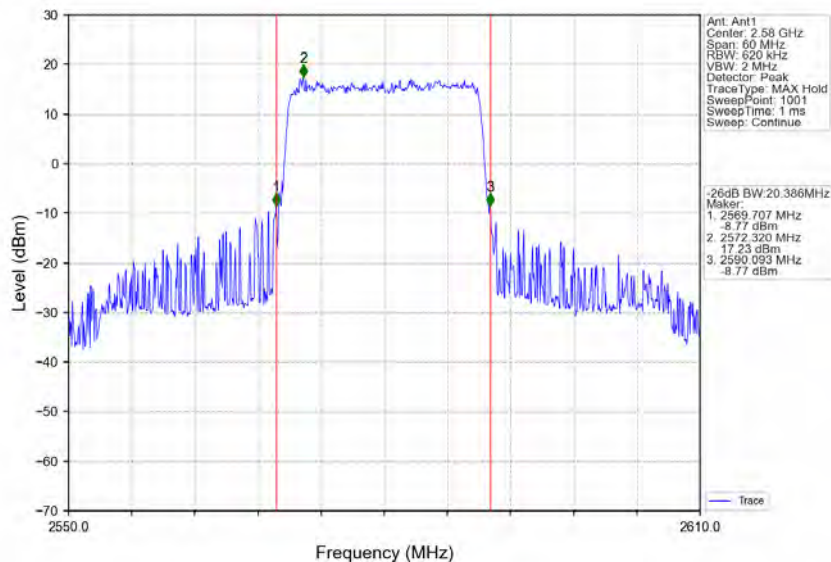
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Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV

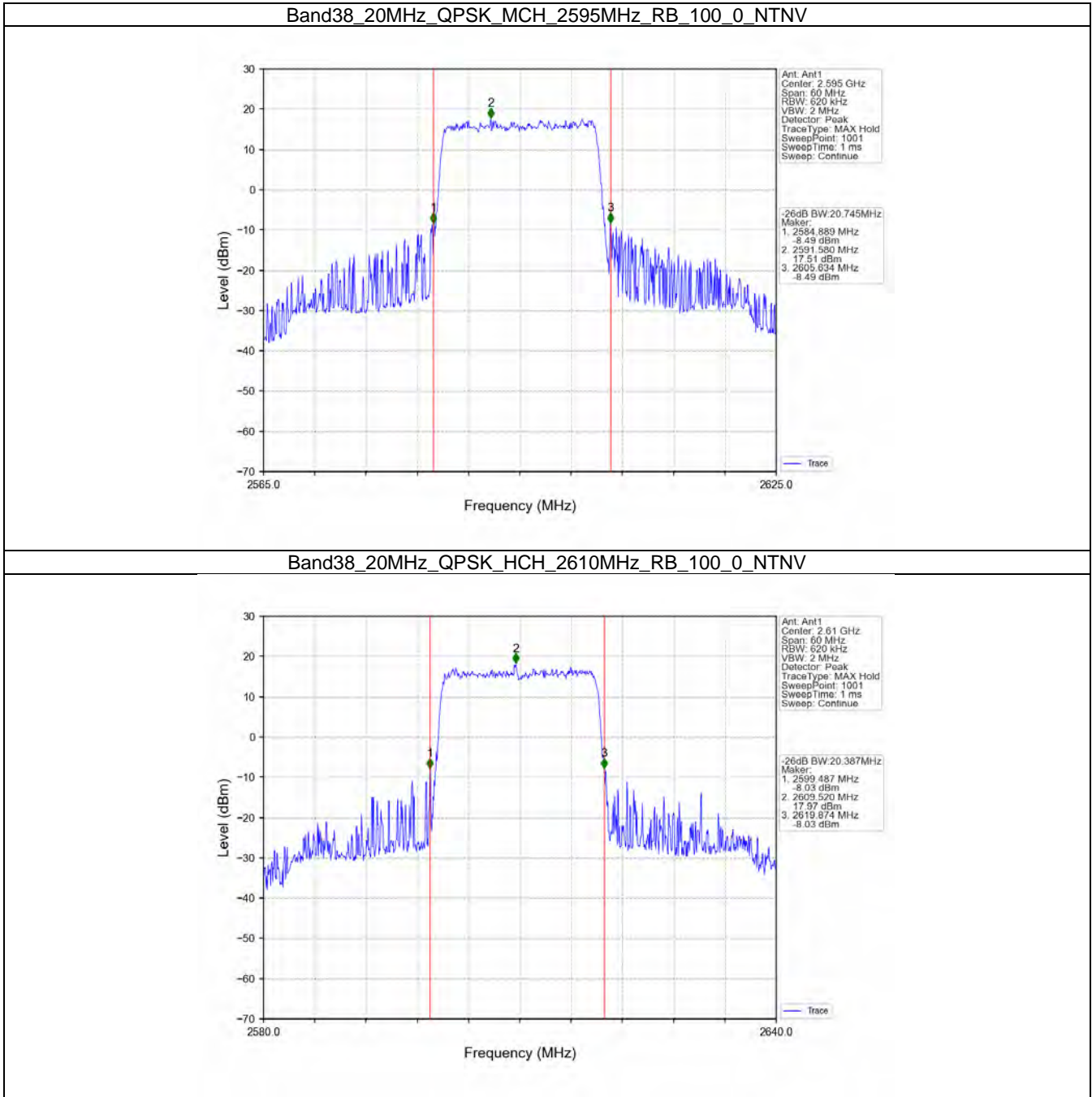


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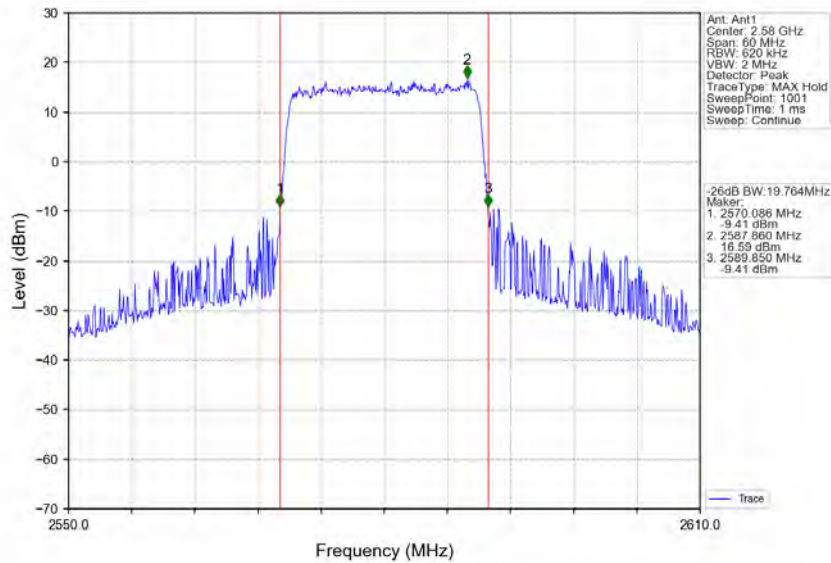
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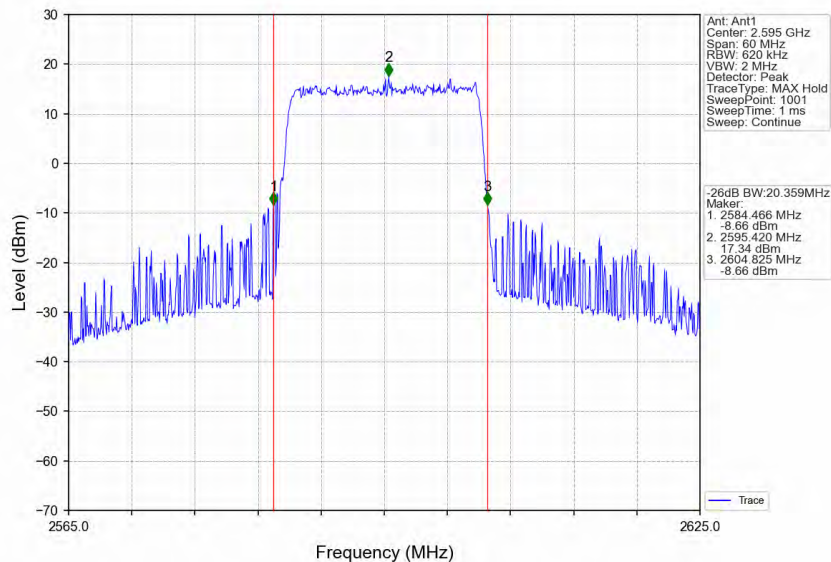
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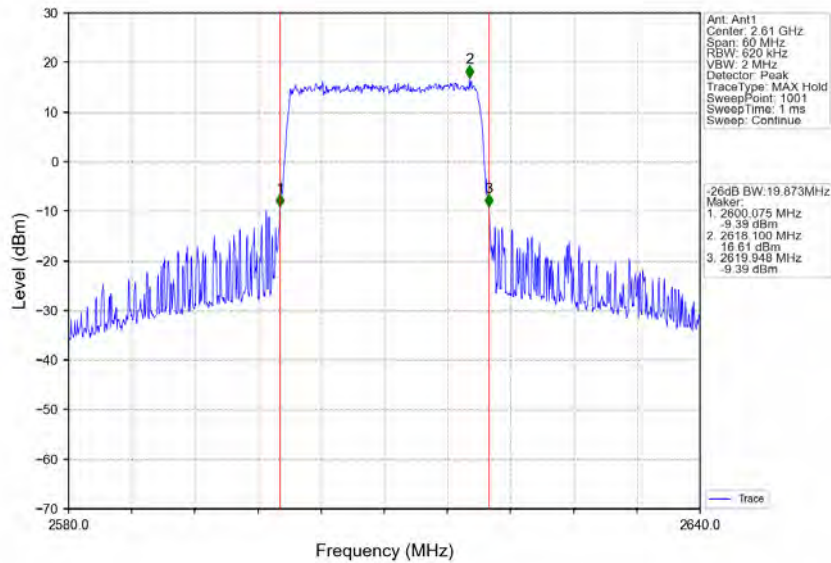
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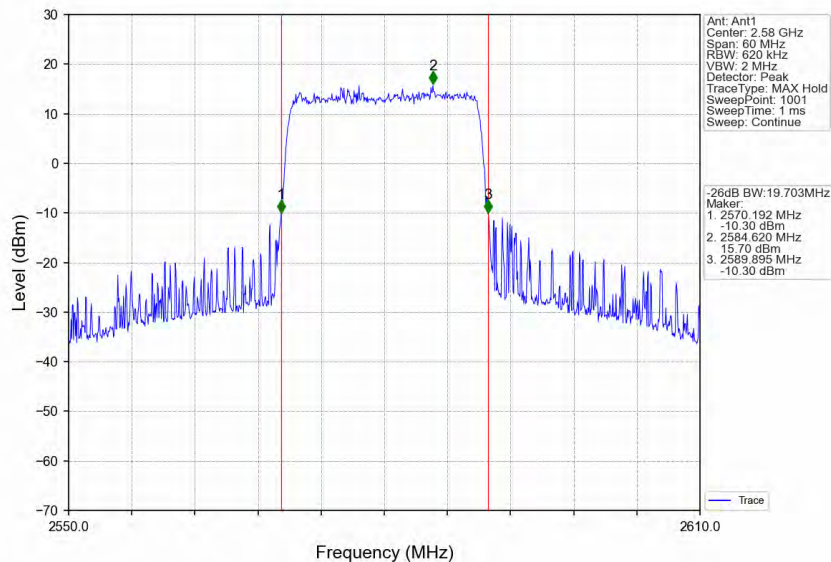
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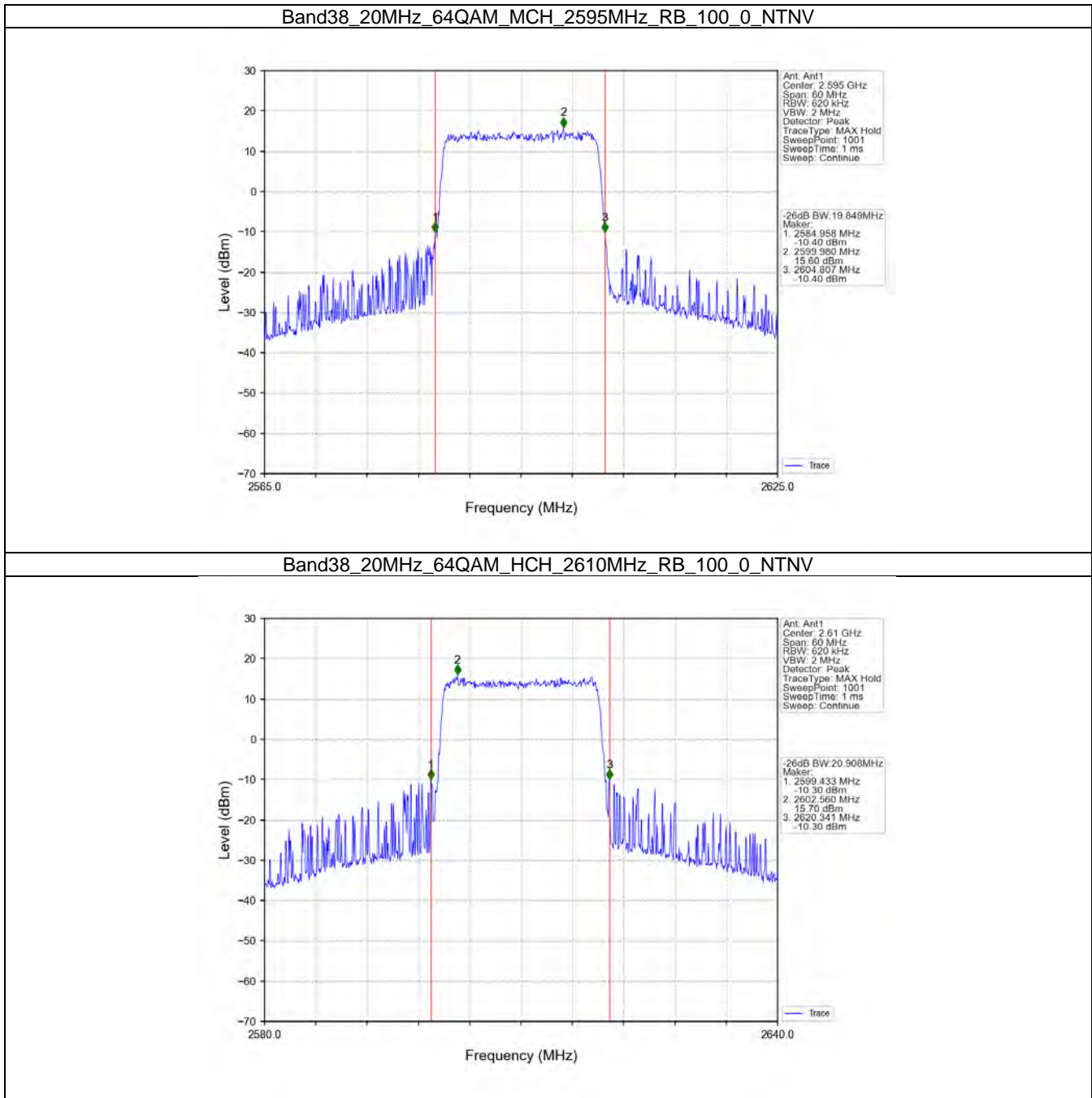


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5. Peak-Average Ratio

5.1 B38_5MHz

5.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	7.89	<=13	Pass
	2595	25	0	7.84	<=13	Pass
	2617.5	25	0	7.49	<=13	Pass
16QAM	2572.5	25	0	8.68	<=13	Pass
	2595	25	0	8.25	<=13	Pass
	2617.5	25	0	8.26	<=13	Pass
64QAM	2572.5	25	0	8.78	<=13	Pass
	2595	25	0	8.46	<=13	Pass
	2617.5	25	0	8.39	<=13	Pass



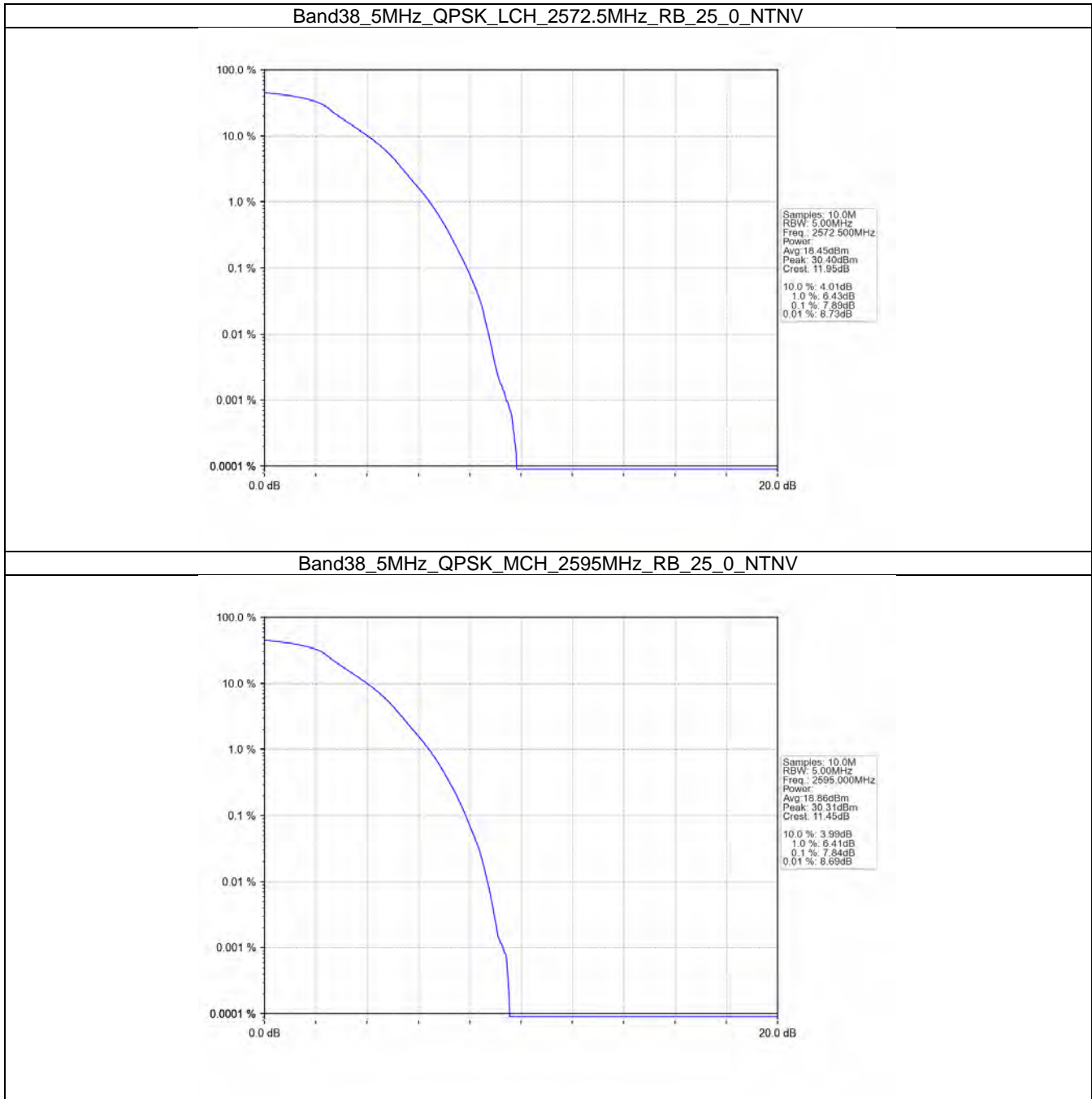
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5.1.2 Test Graph



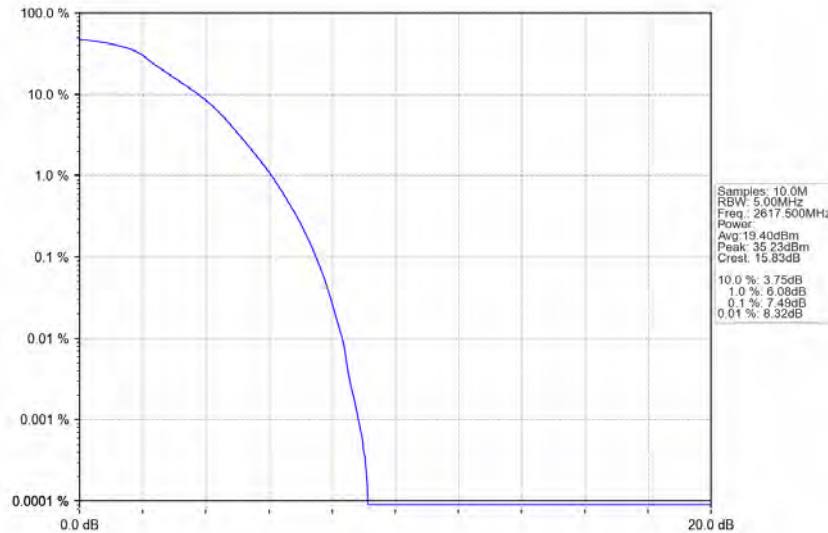
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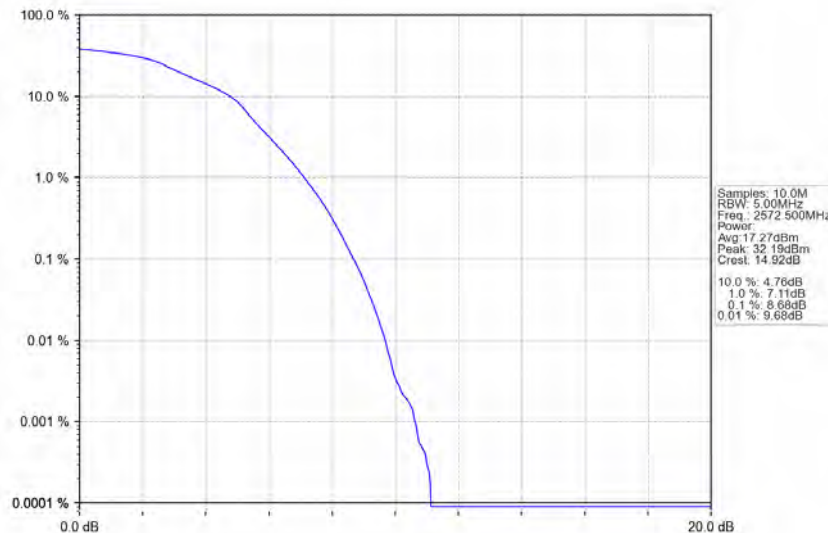
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Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



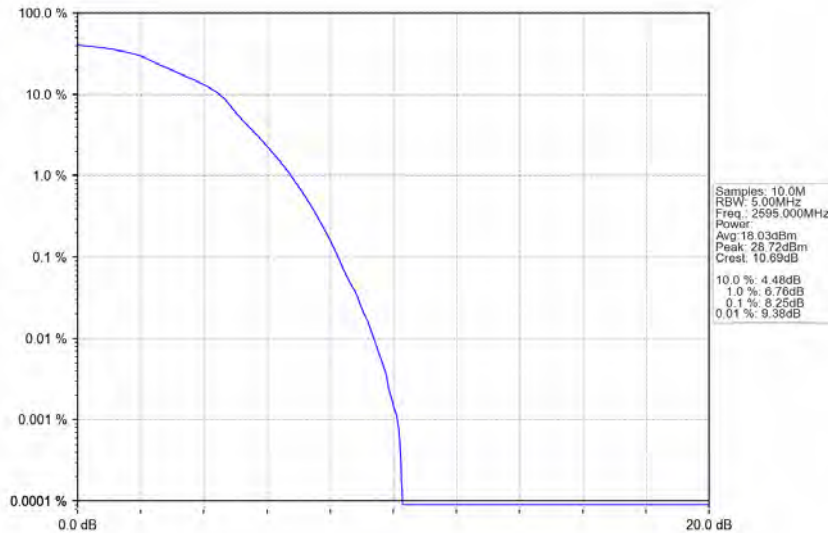
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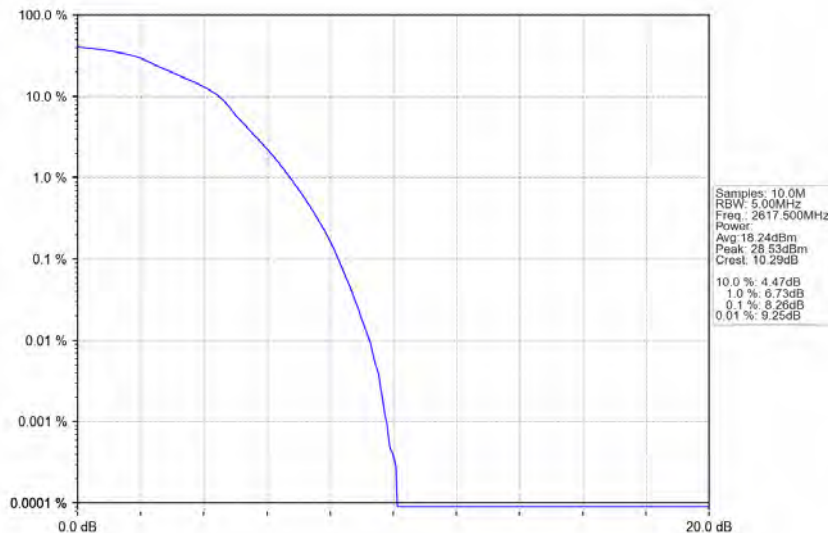
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Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV

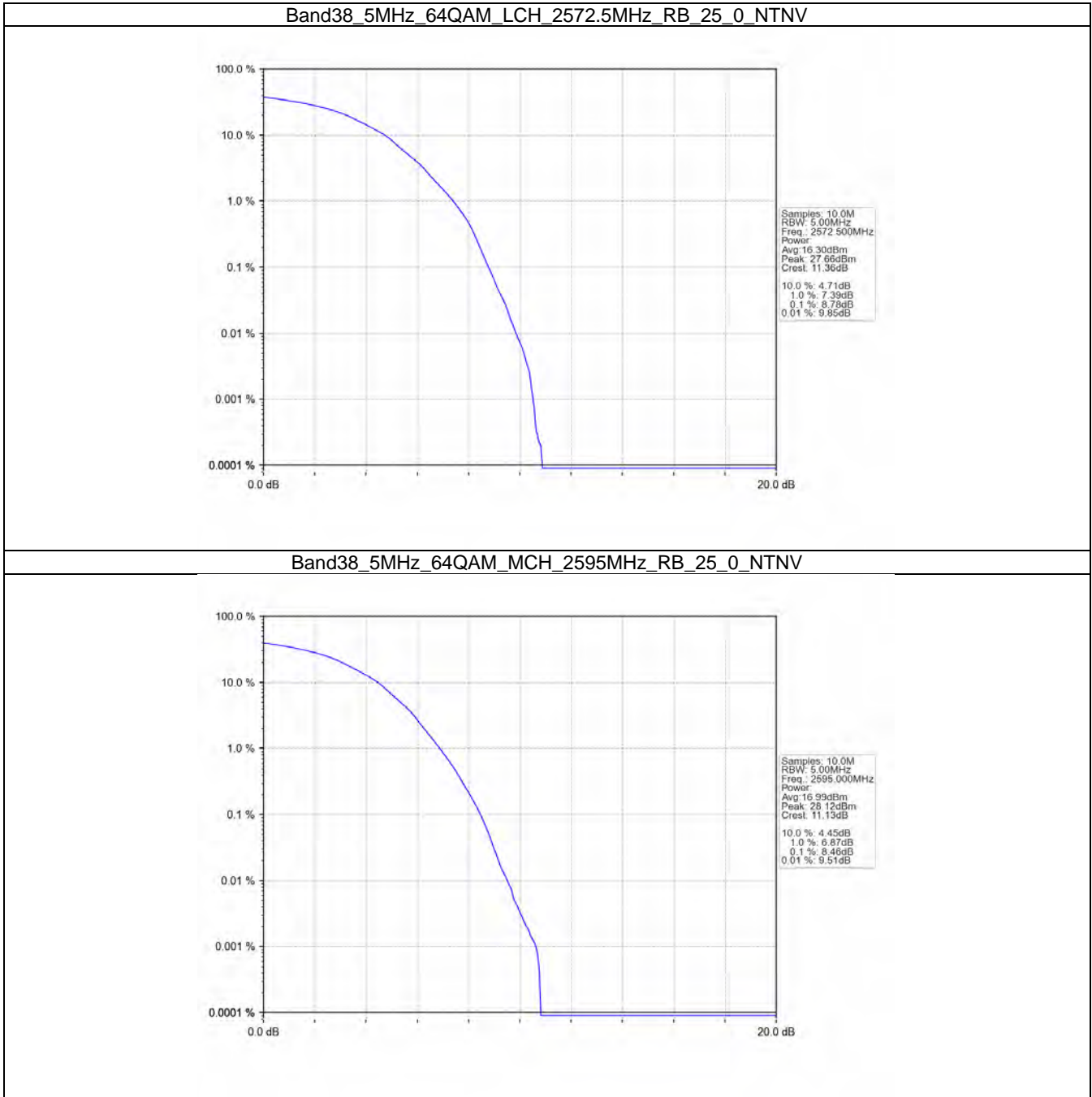


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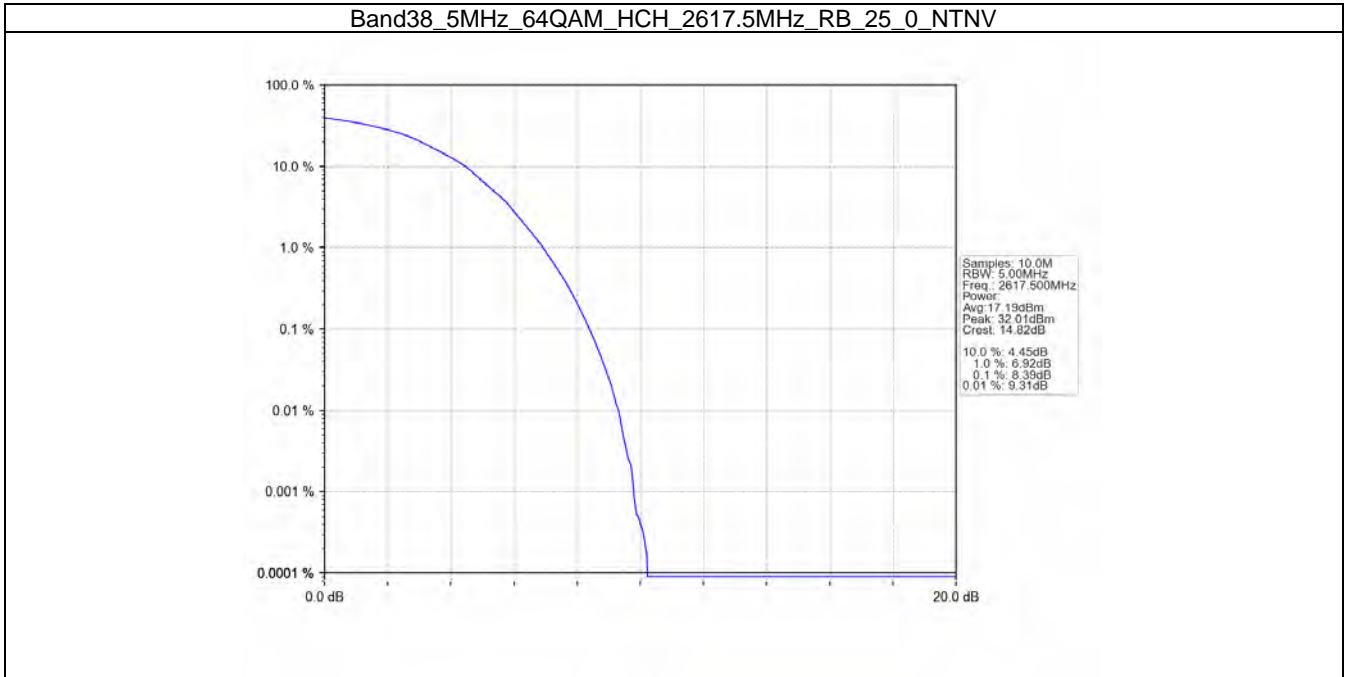
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5.2 B38_10MHz

5.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	50	0	7.86	<=13	Pass
	2595	50	0	7.41	<=13	Pass
	2615	50	0	7.45	<=13	Pass
16QAM	2575	50	0	8.77	<=13	Pass
	2595	50	0	8.35	<=13	Pass
	2615	50	0	8.52	<=13	Pass
64QAM	2575	50	0	8.90	<=13	Pass
	2595	50	0	8.62	<=13	Pass
	2615	50	0	8.62	<=13	Pass



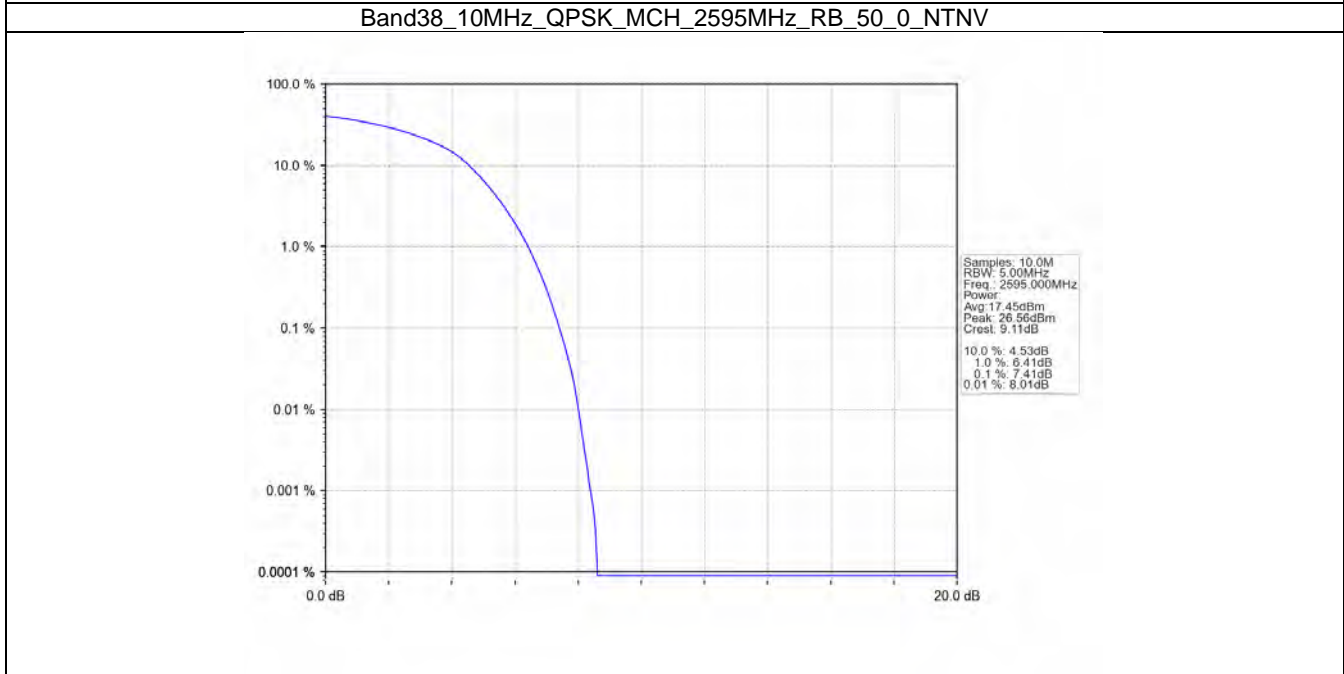
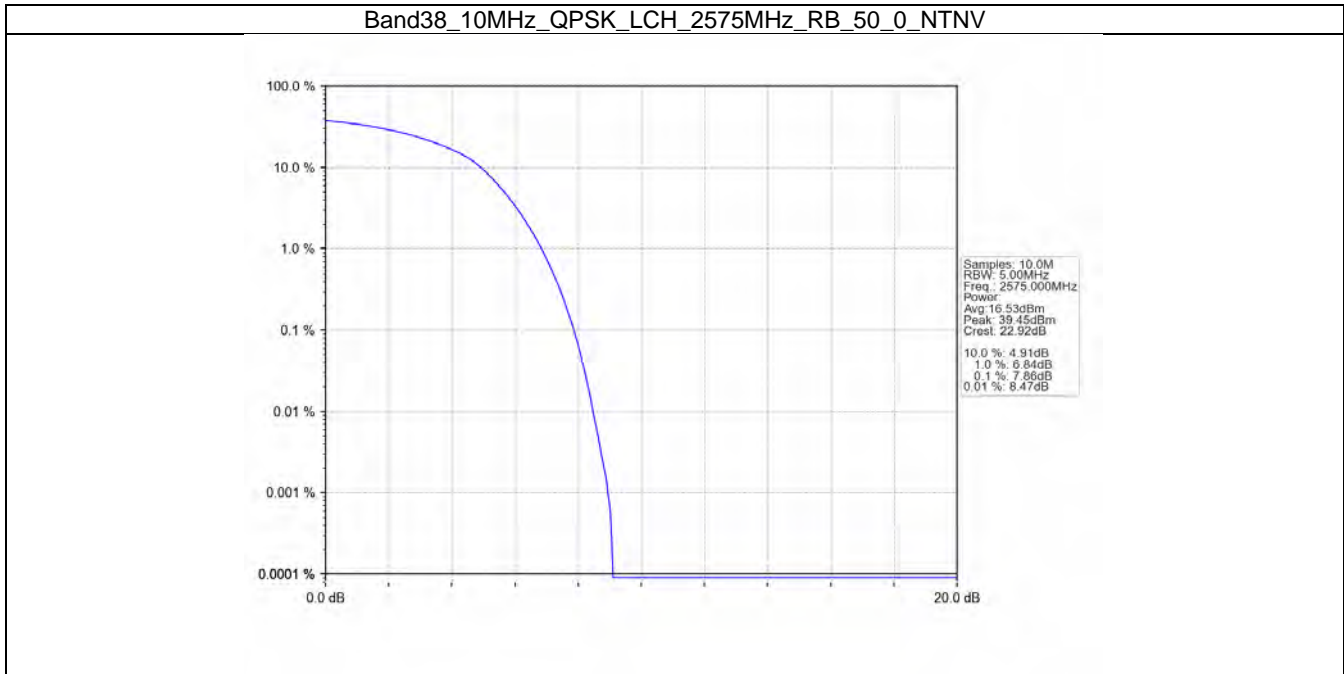
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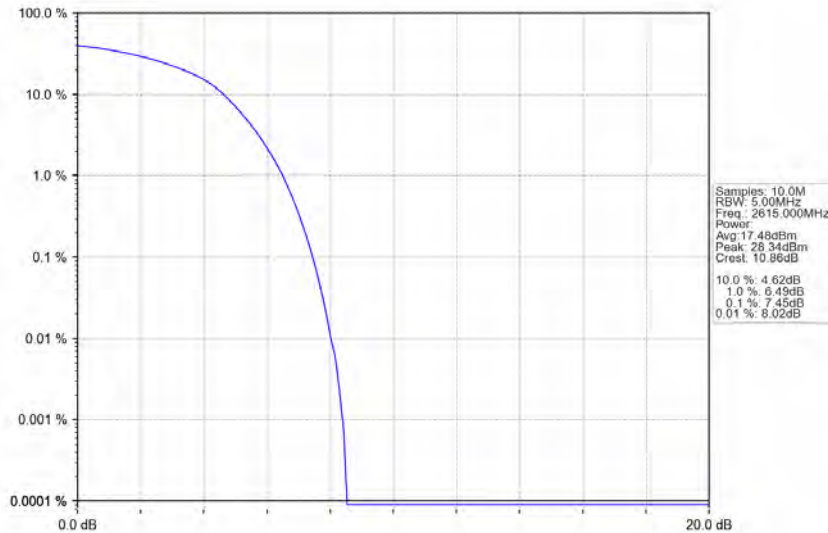
5.2.2 Test Graph



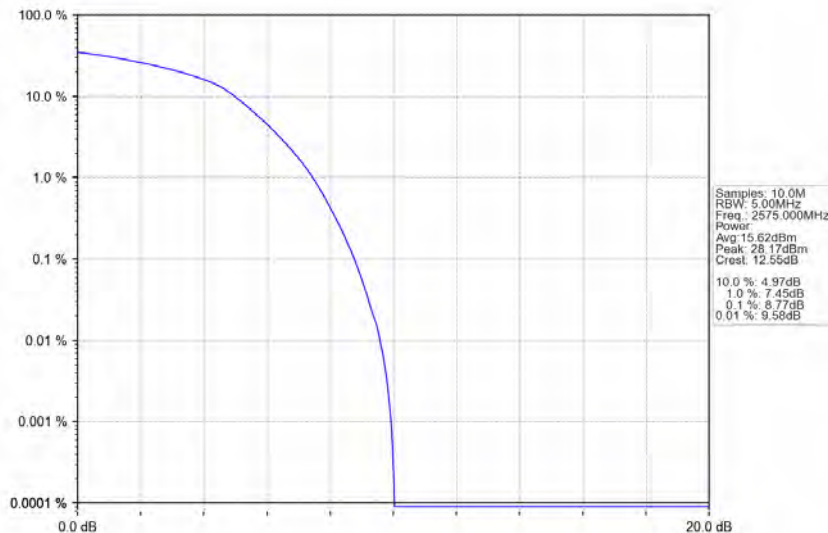
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Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV

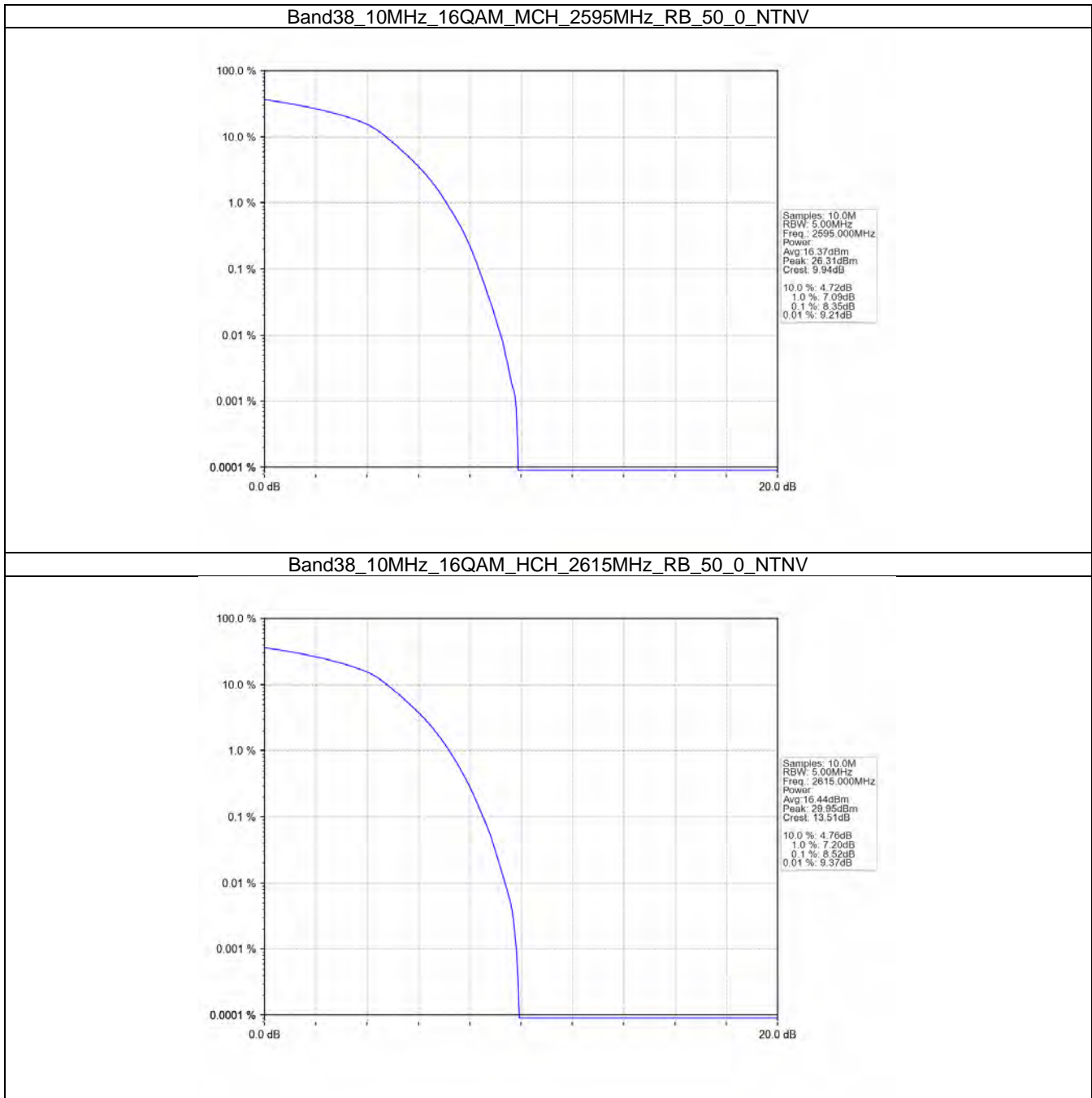


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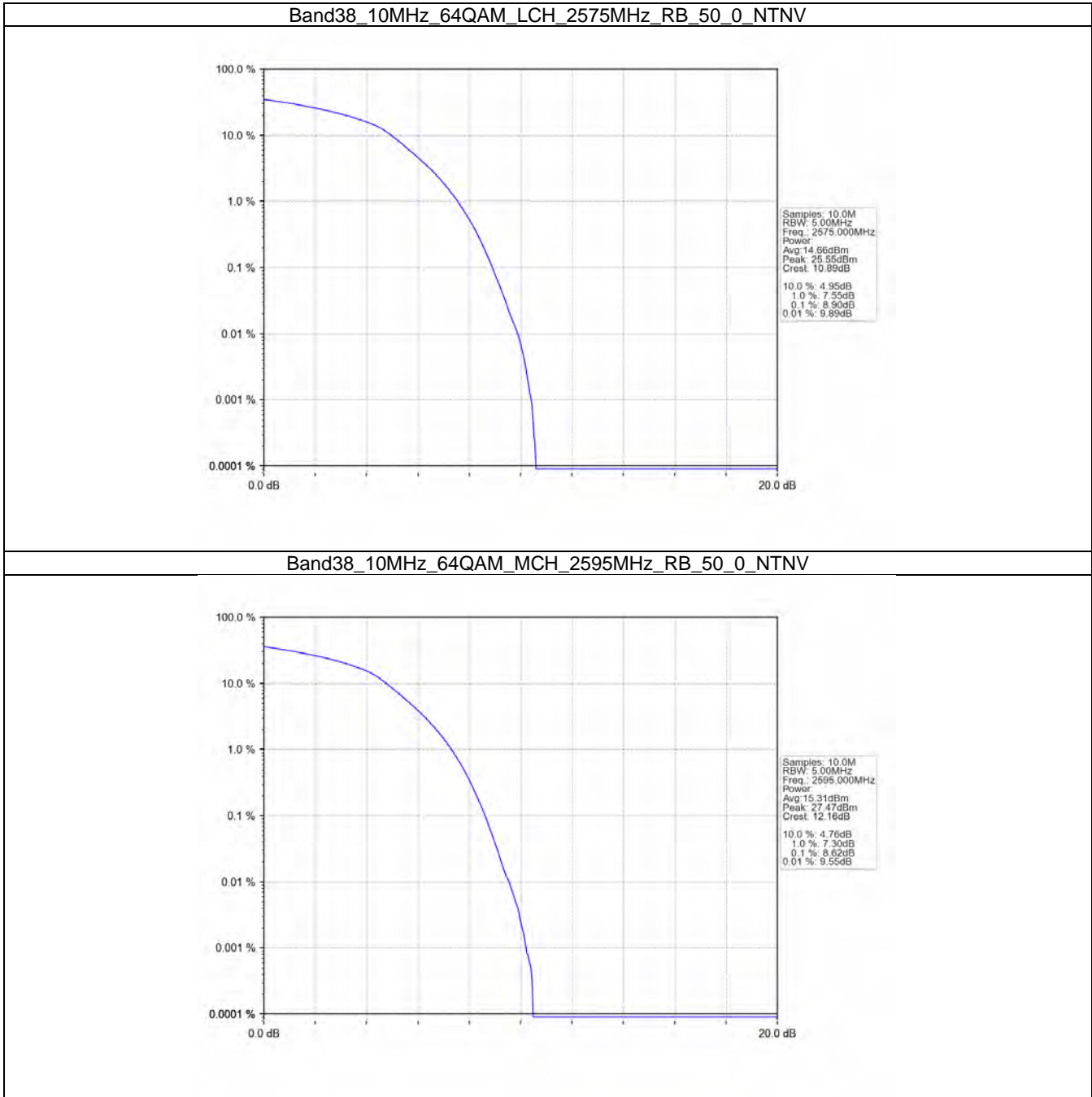
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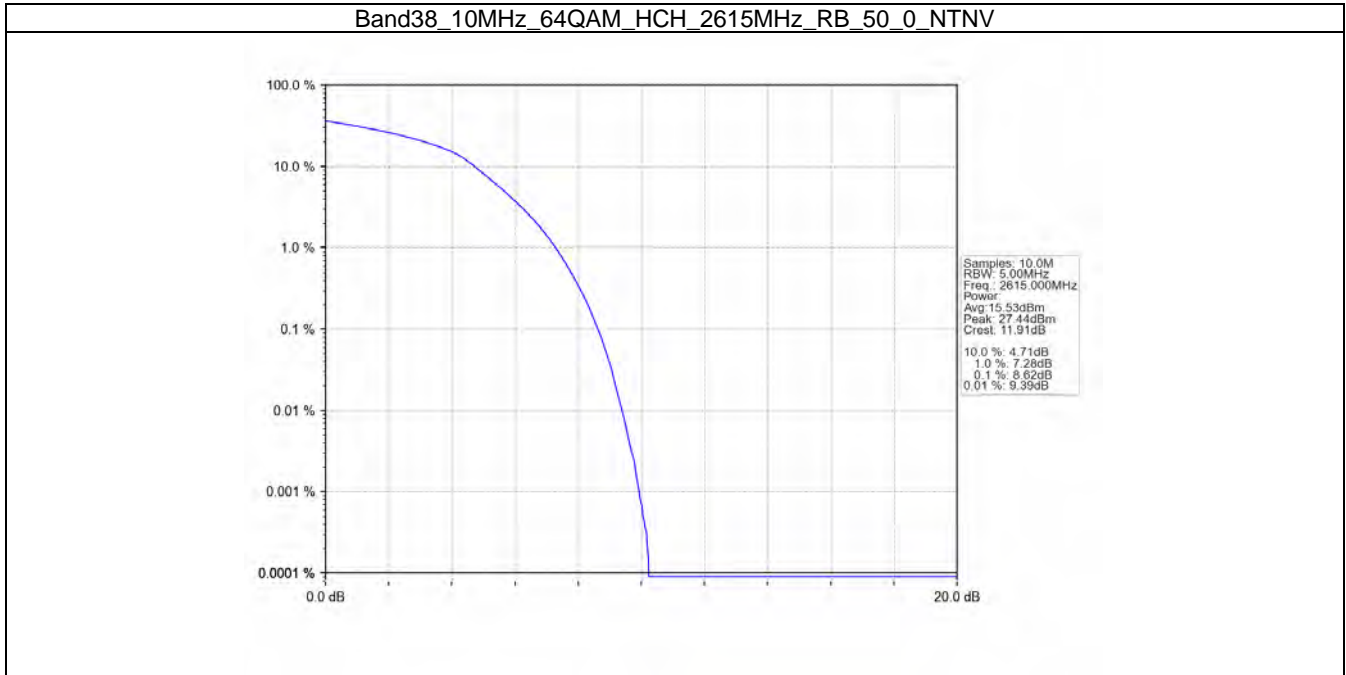
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5.3 B38_15MHz

5.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	8.36	<=13	Pass
	2595	75	0	8.41	<=13	Pass
	2612.5	75	0	8.27	<=13	Pass
16QAM	2577.5	75	0	9.04	<=13	Pass
	2595	75	0	9.07	<=13	Pass
	2612.5	75	0	9.05	<=13	Pass
64QAM	2577.5	75	0	9.09	<=13	Pass
	2595	75	0	9.15	<=13	Pass
	2612.5	75	0	9.13	<=13	Pass



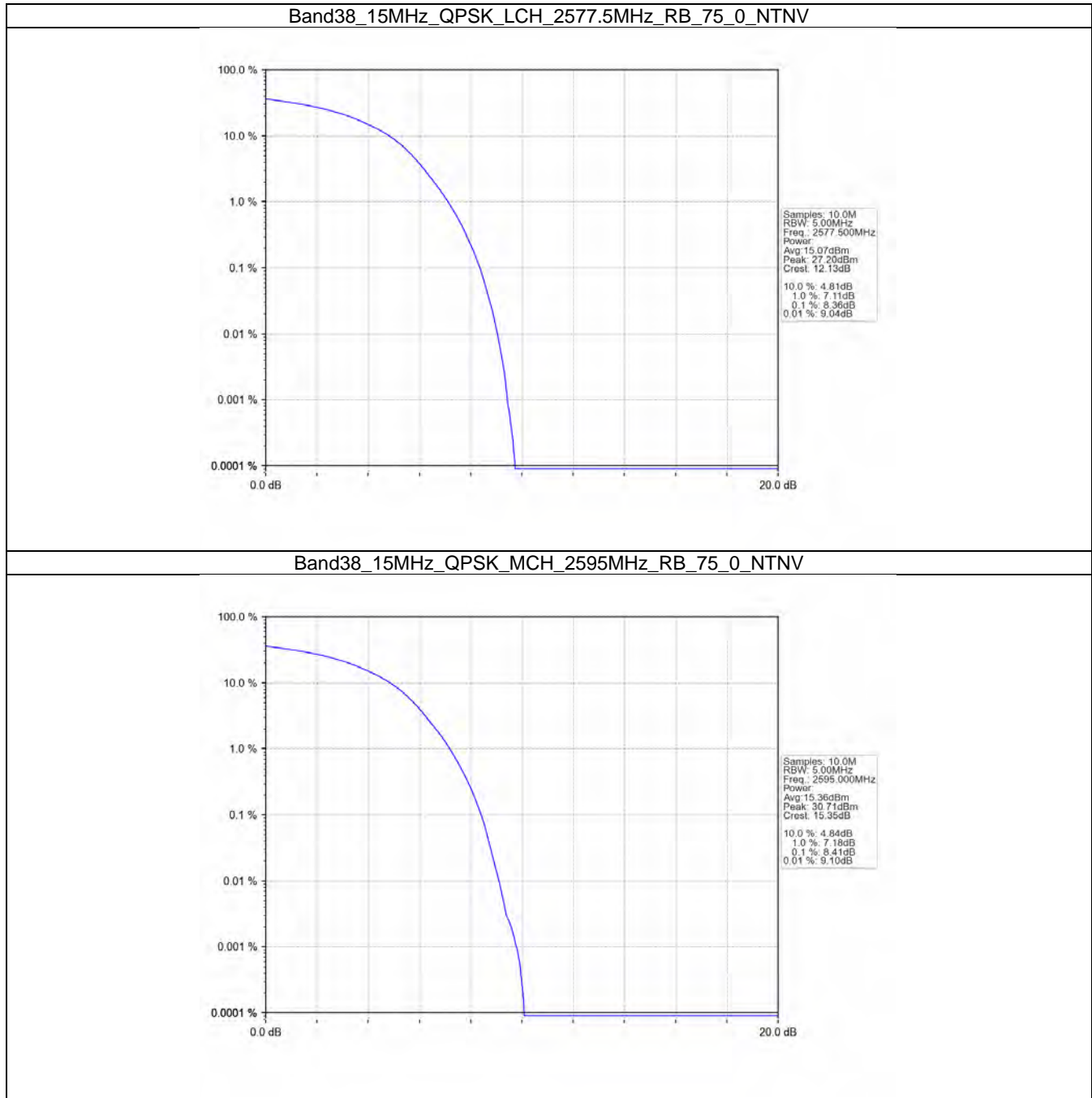
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5.3.2 Test Graph



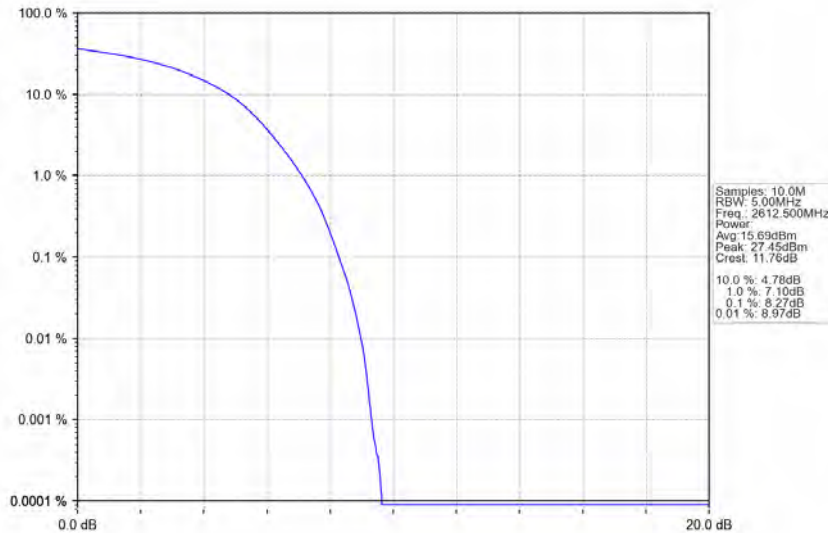
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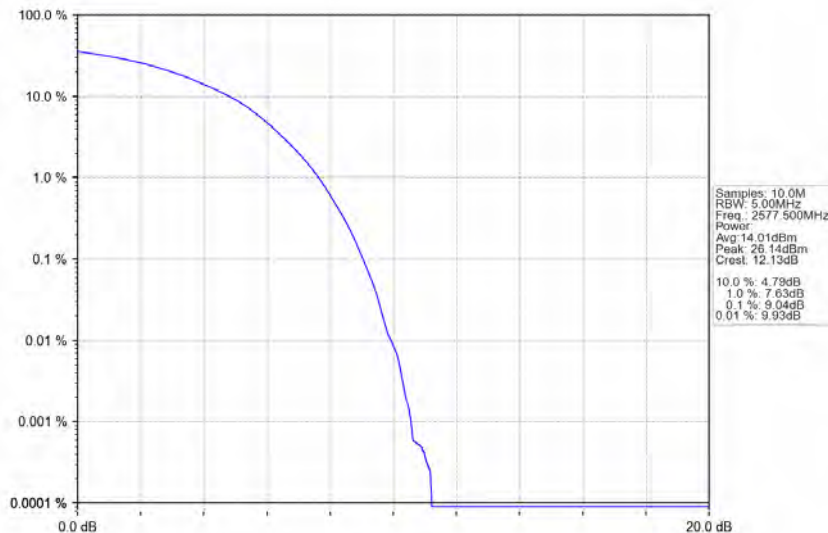
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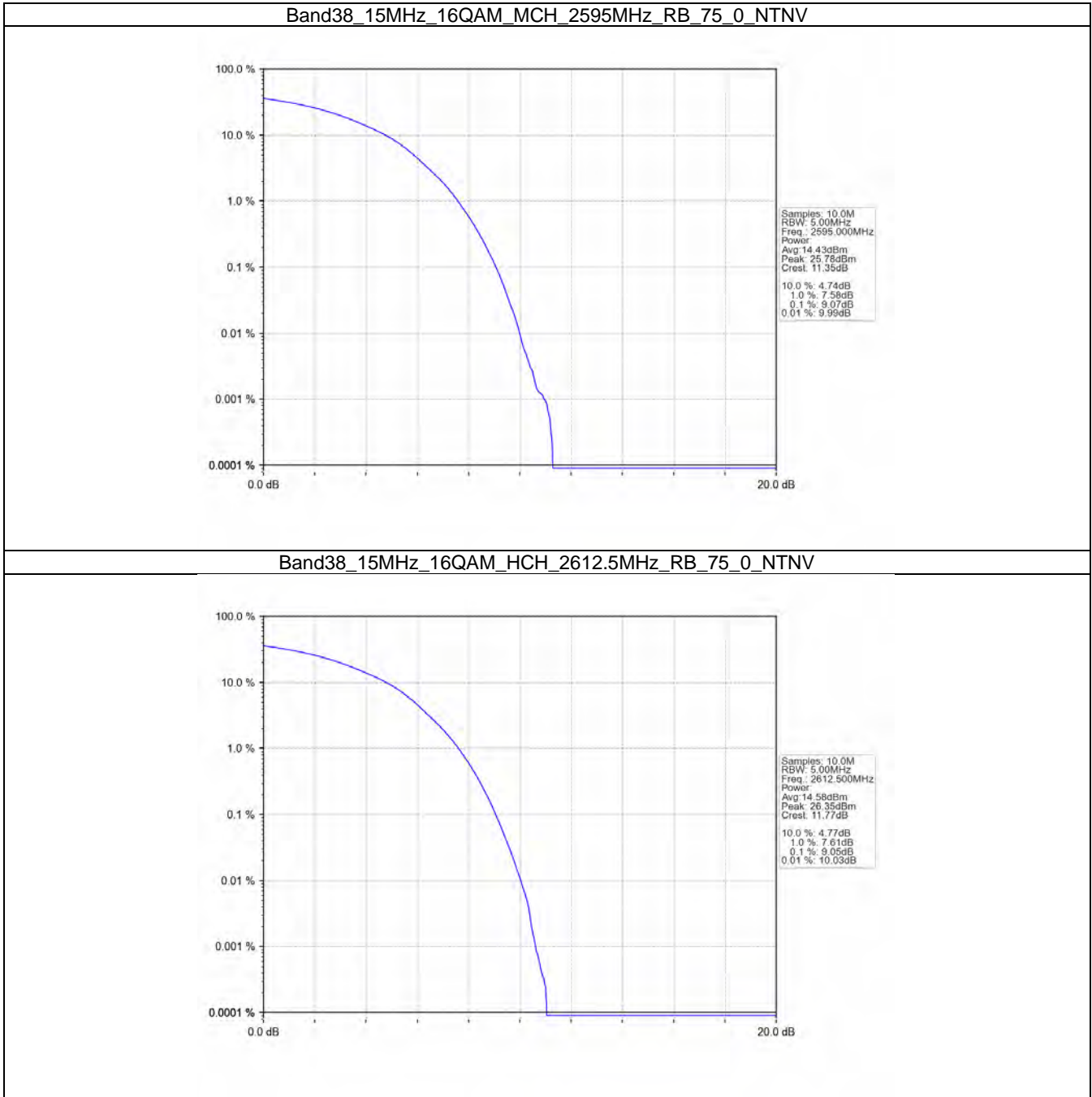


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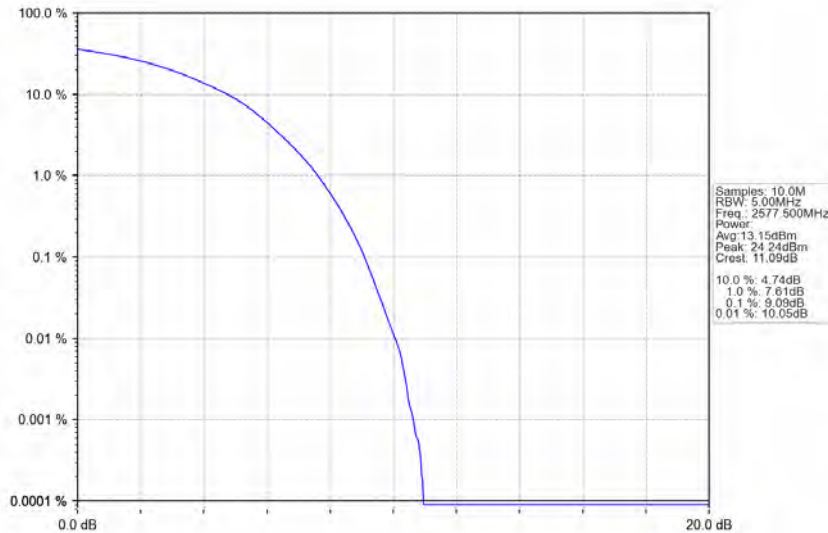
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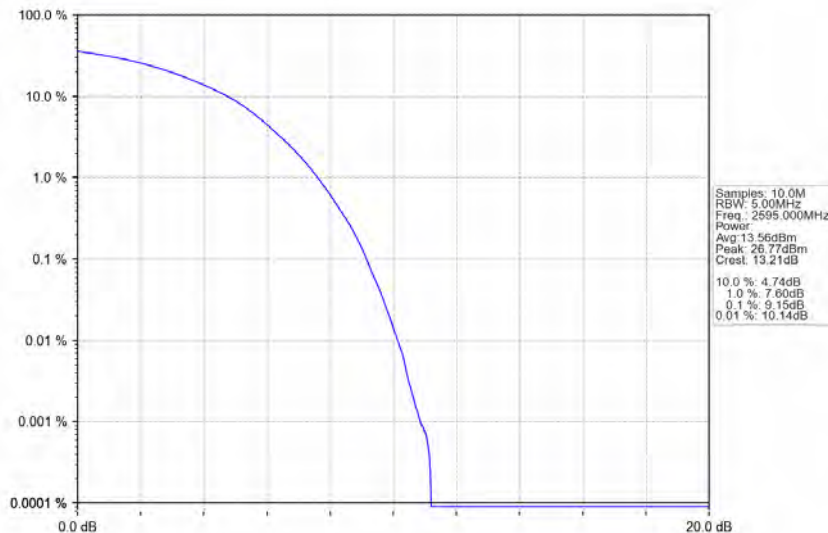
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Band38_15MHz_64QAM_MCH_2595MHz_RB_75_0_NTNV

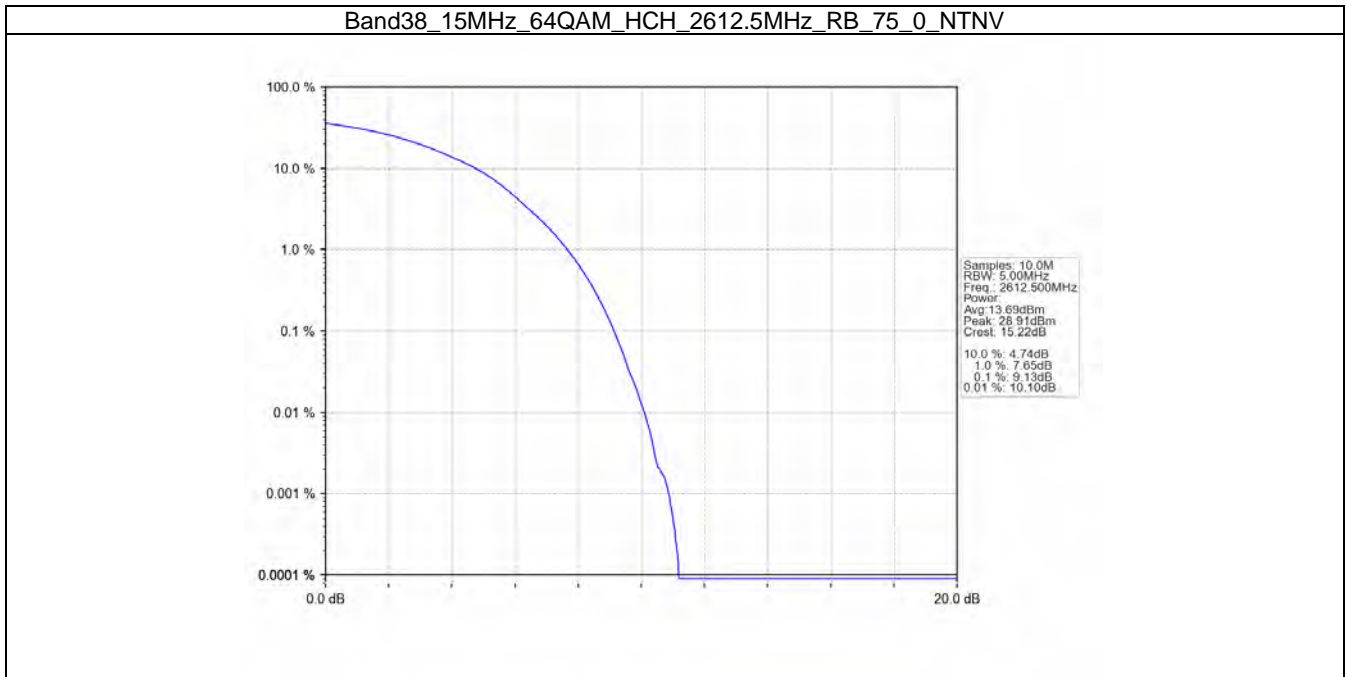


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5.4 B38_20MHz

5.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	8.81	<=13	Pass
	2595	100	0	8.84	<=13	Pass
	2610	100	0	8.81	<=13	Pass
16QAM	2580	100	0	9.36	<=13	Pass
	2595	100	0	9.37	<=13	Pass
	2610	100	0	9.30	<=13	Pass
64QAM	2580	100	0	9.35	<=13	Pass
	2595	100	0	9.38	<=13	Pass
	2610	100	0	9.38	<=13	Pass



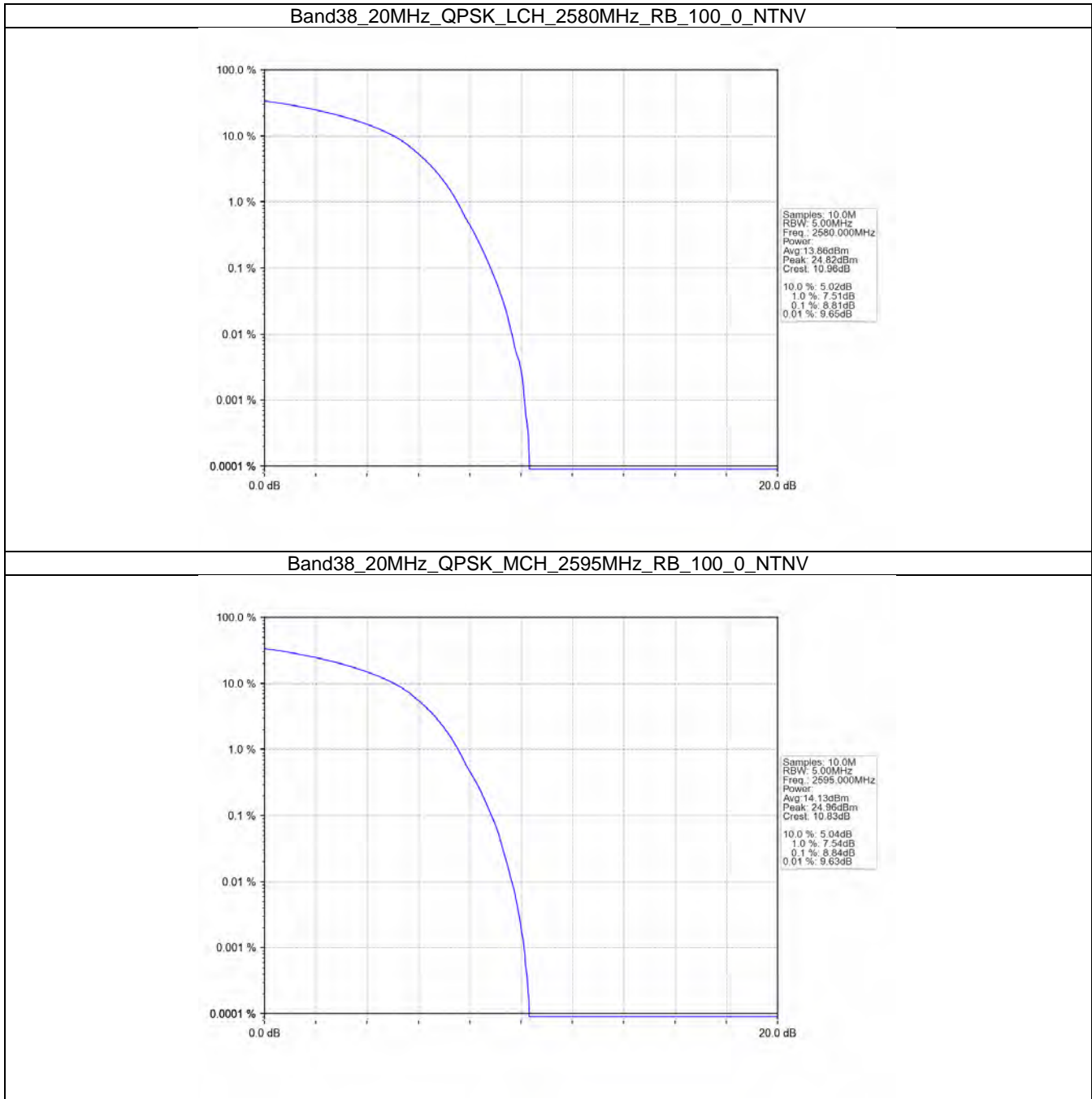
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5.4.2 Test Graph

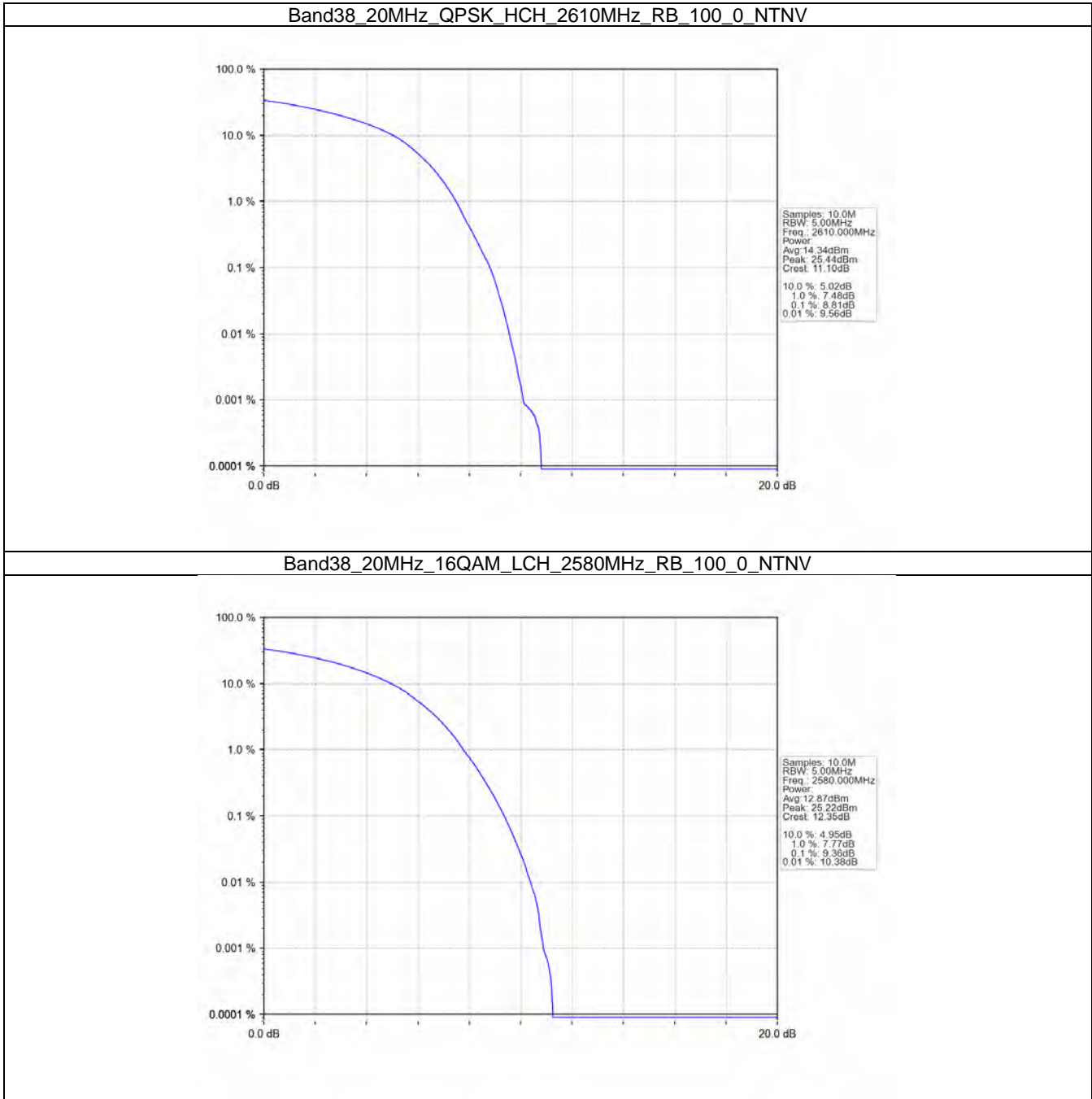


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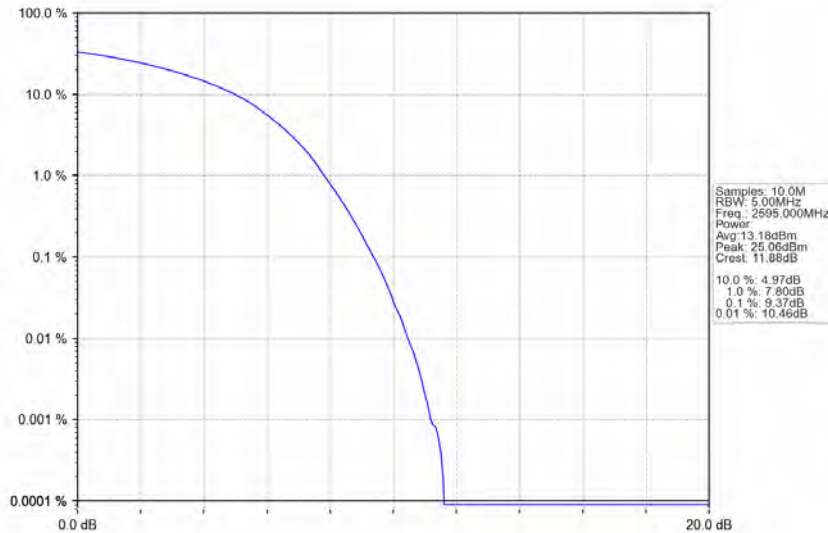
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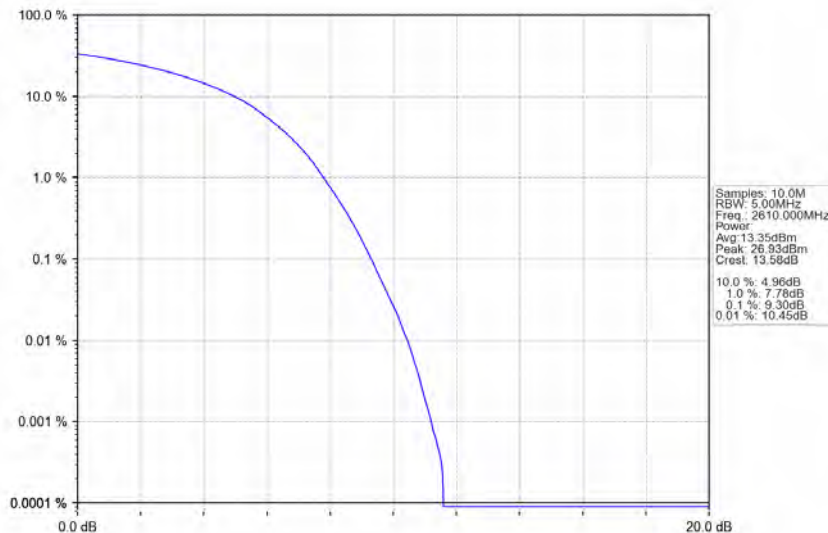
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Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



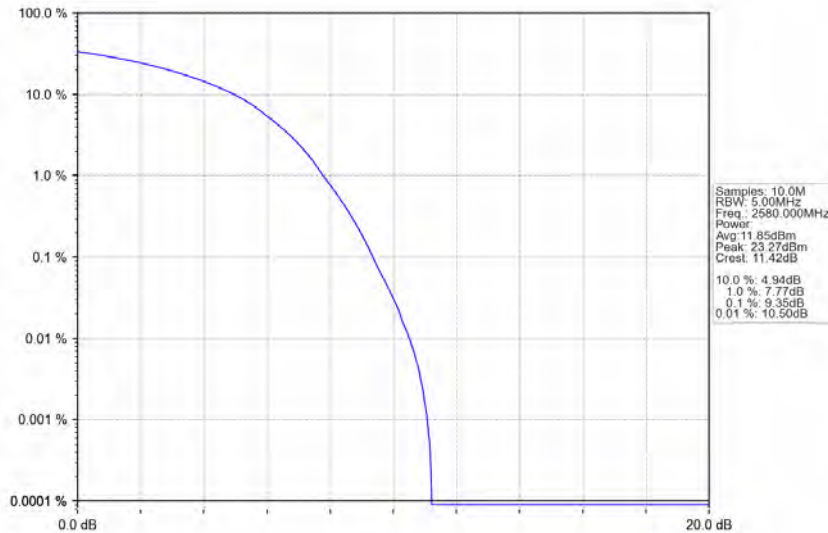
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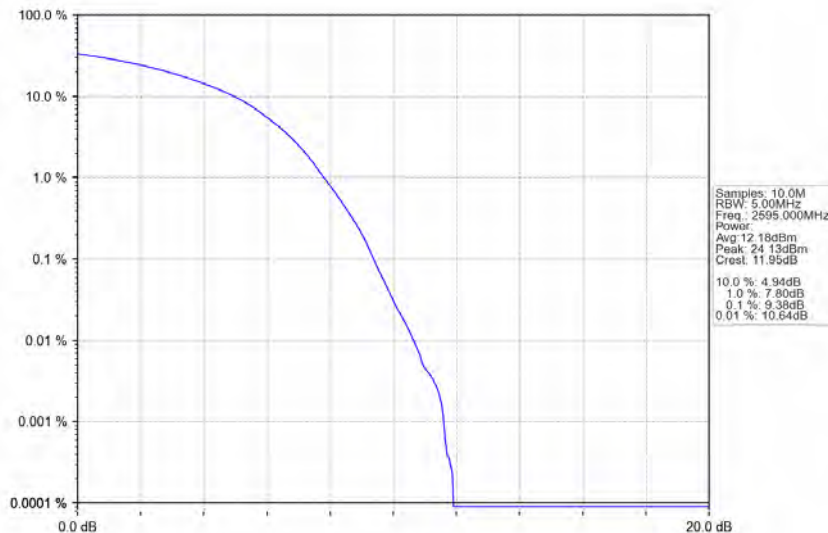
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Band38_20MHz_64QAM_MCH_2595MHz_RB_100_0_NTNV

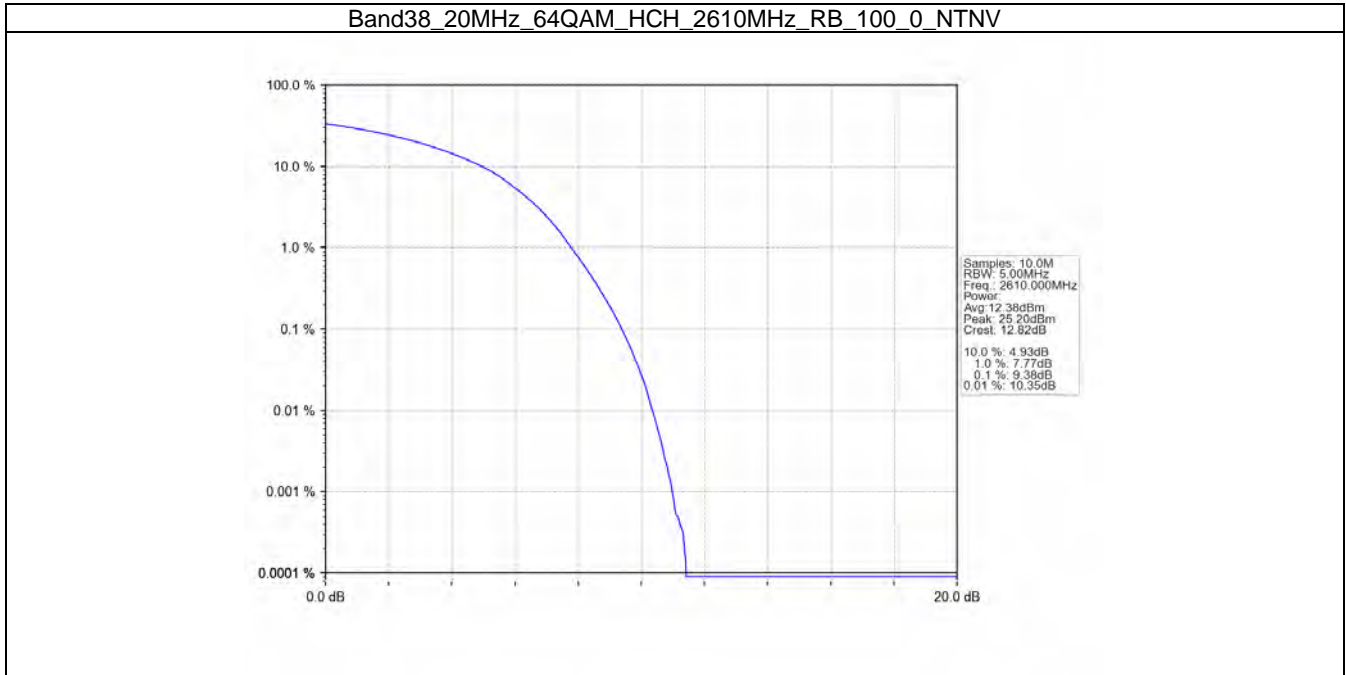


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