

Appendix X for KSCR2205000668AT-FCC-LTE-Band41

1. Effective (Isotropic) Radiated Power Output Data

1.1 B41\_5MHz\_EIRP

1.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2498.5	1	0	22.15	0.39	22.54	<=33.01	Pass	
			13	22.42	0.39	22.81	<=33.01	Pass	
			24	22.28	0.39	22.67	<=33.01	Pass	
		12	0	21.32	0.39	21.71	<=33.01	Pass	
			6	21.28	0.39	21.67	<=33.01	Pass	
			13	21.32	0.39	21.71	<=33.01	Pass	
		25	0	21.38	0.39	21.77	<=33.01	Pass	
			0	22.11	0.39	22.50	<=33.01	Pass	
			13	22.32	0.39	22.71	<=33.01	Pass	
	2593	1	24	22.21	0.39	22.60	<=33.01	Pass	
			0	21.14	0.39	21.53	<=33.01	Pass	
			6	21.41	0.39	21.80	<=33.01	Pass	
		12	13	21.28	0.39	21.67	<=33.01	Pass	
			0	21.17	0.39	21.56	<=33.01	Pass	
			0	22.47	0.39	22.86	<=33.01	Pass	
	2687.5	1	13	22.57	0.39	22.96	<=33.01	Pass	
			24	22.58	0.39	22.97	<=33.01	Pass	
			0	21.52	0.39	21.91	<=33.01	Pass	
		12	6	21.57	0.39	21.96	<=33.01	Pass	
			13	21.58	0.39	21.97	<=33.01	Pass	
			0	21.52	0.39	21.91	<=33.01	Pass	
	16QAM	2498.5	1	0	21.53	0.39	21.92	<=33.01	Pass
				13	21.69	0.39	22.08	<=33.01	Pass
				24	21.27	0.39	21.66	<=33.01	Pass
12			0	20.18	0.39	20.57	<=33.01	Pass	
			6	20.37	0.39	20.76	<=33.01	Pass	
			13	20.27	0.39	20.66	<=33.01	Pass	
25			0	20.41	0.39	20.80	<=33.01	Pass	
			0	21.19	0.39	21.58	<=33.01	Pass	
			13	21.33	0.39	21.72	<=33.01	Pass	
2593		1	24	21.26	0.39	21.65	<=33.01	Pass	
			0	20.12	0.39	20.51	<=33.01	Pass	
			6	20.29	0.39	20.68	<=33.01	Pass	
		12	13	20.14	0.39	20.53	<=33.01	Pass	
			0	20.13	0.39	20.52	<=33.01	Pass	
			0	21.18	0.39	21.57	<=33.01	Pass	
2687.5		1	13	21.59	0.39	21.98	<=33.01	Pass	
			24	21.73	0.39	22.12	<=33.01	Pass	
			0	20.41	0.39	20.80	<=33.01	Pass	
		12	6	20.49	0.39	20.88	<=33.01	Pass	

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64QAM	2498.5	1	13	20.51	0.39	20.90	<=33.01	Pass	
			25	0	20.58	0.39	20.97	<=33.01	Pass
			0	20.42	0.39	20.81	<=33.01	Pass	
		12	13	20.14	0.39	20.53	<=33.01	Pass	
			24	20.05	0.39	20.44	<=33.01	Pass	
	0		19.26	0.39	19.65	<=33.01	Pass		
	25	6	19.43	0.39	19.82	<=33.01	Pass		
		13	19.29	0.39	19.68	<=33.01	Pass		
		0	19.32	0.39	19.71	<=33.01	Pass		
	2593	1	0	20.29	0.39	20.68	<=33.01	Pass	
			13	19.92	0.39	20.31	<=33.01	Pass	
			24	20.21	0.39	20.60	<=33.01	Pass	
		12	0	19.03	0.39	19.42	<=33.01	Pass	
			6	19.26	0.39	19.65	<=33.01	Pass	
			13	19.20	0.39	19.59	<=33.01	Pass	
		25	0	19.07	0.39	19.46	<=33.01	Pass	
		2687.5	1	0	20.74	0.39	21.13	<=33.01	Pass
				13	20.93	0.39	21.32	<=33.01	Pass
	24			20.50	0.39	20.89	<=33.01	Pass	
	12		0	19.44	0.39	19.83	<=33.01	Pass	
			6	19.71	0.39	20.10	<=33.01	Pass	
			13	19.63	0.39	20.02	<=33.01	Pass	
	25		0	19.45	0.39	19.84	<=33.01	Pass	

Note1: EIRP=Conducted Power+Antenna Gain

## 1.2 B41\_10MHz\_EIRP

### 1.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2501	1	0	22.26	0.39	22.65	<=33.01	Pass	
			25	22.67	0.39	23.06	<=33.01	Pass	
			49	22.60	0.39	22.99	<=33.01	Pass	
		25	0	21.40	0.39	21.79	<=33.01	Pass	
			13	21.47	0.39	21.86	<=33.01	Pass	
			25	21.51	0.39	21.90	<=33.01	Pass	
		50	0	21.38	0.39	21.77	<=33.01	Pass	
		2593	1	0	22.25	0.39	22.64	<=33.01	Pass
				25	22.49	0.39	22.88	<=33.01	Pass
	49			22.34	0.39	22.73	<=33.01	Pass	
	25		0	21.29	0.39	21.68	<=33.01	Pass	
			13	21.23	0.39	21.62	<=33.01	Pass	
			25	21.36	0.39	21.75	<=33.01	Pass	
	50	0	21.34	0.39	21.73	<=33.01	Pass		
	2685	1	0	22.39	0.39	22.78	<=33.01	Pass	
			25	22.69	0.39	23.08	<=33.01	Pass	
			49	22.63	0.39	23.02	<=33.01	Pass	
		25	0	21.46	0.39	21.85	<=33.01	Pass	
			13	21.58	0.39	21.97	<=33.01	Pass	

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16QAM	2501	50	25	21.48	0.39	21.87	<=33.01	Pass		
			0	21.53	0.39	21.92	<=33.01	Pass		
			0	21.28	0.39	21.67	<=33.01	Pass		
		1	25	21.57	0.39	21.96	<=33.01	Pass		
			49	21.28	0.39	21.67	<=33.01	Pass		
			0	20.40	0.39	20.79	<=33.01	Pass		
	25	13	20.44	0.39	20.83	<=33.01	Pass			
		25	20.48	0.39	20.87	<=33.01	Pass			
		0	20.47	0.39	20.86	<=33.01	Pass			
	2593	1	0	21.12	0.39	21.51	<=33.01	Pass		
			25	21.44	0.39	21.83	<=33.01	Pass		
			49	21.14	0.39	21.53	<=33.01	Pass		
		25	0	20.24	0.39	20.63	<=33.01	Pass		
			13	20.36	0.39	20.75	<=33.01	Pass		
			25	20.38	0.39	20.77	<=33.01	Pass		
		50	0	20.23	0.39	20.62	<=33.01	Pass		
		2685	1	0	21.38	0.39	21.77	<=33.01	Pass	
				25	21.72	0.39	22.11	<=33.01	Pass	
49	21.35			0.39	21.74	<=33.01	Pass			
25	0		20.37	0.39	20.76	<=33.01	Pass			
	13		20.48	0.39	20.87	<=33.01	Pass			
	25		20.47	0.39	20.86	<=33.01	Pass			
50	0	20.54	0.39	20.93	<=33.01	Pass				
64QAM	2501	1	0	20.58	0.39	20.97	<=33.01	Pass		
			25	20.88	0.39	21.27	<=33.01	Pass		
			49	20.81	0.39	21.20	<=33.01	Pass		
		25	0	19.39	0.39	19.78	<=33.01	Pass		
			13	19.46	0.39	19.85	<=33.01	Pass		
			25	19.47	0.39	19.86	<=33.01	Pass		
		50	0	19.50	0.39	19.89	<=33.01	Pass		
		2593	1	0	20.41	0.39	20.80	<=33.01	Pass	
				25	20.08	0.39	20.47	<=33.01	Pass	
	49			19.95	0.39	20.34	<=33.01	Pass		
	25		0	19.23	0.39	19.62	<=33.01	Pass		
			13	19.21	0.39	19.60	<=33.01	Pass		
			25	19.26	0.39	19.65	<=33.01	Pass		
	50	0	19.20	0.39	19.59	<=33.01	Pass			
	2685	1	0	19.92	0.39	20.31	<=33.01	Pass		
			25	20.29	0.39	20.68	<=33.01	Pass		
			49	20.14	0.39	20.53	<=33.01	Pass		
		25	0	19.38	0.39	19.77	<=33.01	Pass		
			13	19.46	0.39	19.85	<=33.01	Pass		
			25	19.53	0.39	19.92	<=33.01	Pass		
		50	0	19.44	0.39	19.83	<=33.01	Pass		
		Note1: EIRP=Conducted Power+Antenna Gain								

1.3 B41\_15MHz\_EIRP

1.3.1 Test Result

Band: 41 / 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	2503.5	1	0	22.24	0.39	22.63	<=33.01	Pass		
			38	22.56	0.39	22.95	<=33.01	Pass		
			74	22.64	0.39	23.03	<=33.01	Pass		
		36	0	21.41	0.39	21.80	<=33.01	Pass		
			18	21.47	0.39	21.86	<=33.01	Pass		
			39	21.59	0.39	21.98	<=33.01	Pass		
		75	0	21.50	0.39	21.89	<=33.01	Pass		
		2593	1	0	22.12	0.39	22.51	<=33.01	Pass	
				38	22.36	0.39	22.75	<=33.01	Pass	
	74			22.41	0.39	22.80	<=33.01	Pass		
	36		0	21.16	0.39	21.55	<=33.01	Pass		
			18	21.35	0.39	21.74	<=33.01	Pass		
			39	21.34	0.39	21.73	<=33.01	Pass		
	75		0	21.36	0.39	21.75	<=33.01	Pass		
	2682.5		1	0	22.26	0.39	22.65	<=33.01	Pass	
				38	22.59	0.39	22.98	<=33.01	Pass	
		74		22.54	0.39	22.93	<=33.01	Pass		
		36	0	21.42	0.39	21.81	<=33.01	Pass		
			18	21.47	0.39	21.86	<=33.01	Pass		
			39	21.49	0.39	21.88	<=33.01	Pass		
		75	0	21.55	0.39	21.94	<=33.01	Pass		
		16QAM	2503.5	1	0	21.04	0.39	21.43	<=33.01	Pass
					38	21.68	0.39	22.07	<=33.01	Pass
	74				21.32	0.39	21.71	<=33.01	Pass	
36	0			20.40	0.39	20.79	<=33.01	Pass		
	18			20.57	0.39	20.96	<=33.01	Pass		
	39			20.61	0.39	21.00	<=33.01	Pass		
75	0			20.52	0.39	20.91	<=33.01	Pass		
2593	1			0	20.95	0.39	21.34	<=33.01	Pass	
				38	21.04	0.39	21.43	<=33.01	Pass	
			74	21.26	0.39	21.65	<=33.01	Pass		
	36		0	20.19	0.39	20.58	<=33.01	Pass		
			18	20.22	0.39	20.61	<=33.01	Pass		
			39	20.28	0.39	20.67	<=33.01	Pass		
	75		0	20.32	0.39	20.71	<=33.01	Pass		
	2682.5		1	0	21.66	0.39	22.05	<=33.01	Pass	
				38	21.92	0.39	22.31	<=33.01	Pass	
74				21.93	0.39	22.32	<=33.01	Pass		
36			0	20.31	0.39	20.70	<=33.01	Pass		
			18	20.49	0.39	20.88	<=33.01	Pass		
			39	20.52	0.39	20.91	<=33.01	Pass		
75			0	20.50	0.39	20.89	<=33.01	Pass		
64QAM			2503.5	1	0	19.94	0.39	20.33	<=33.01	Pass
					38	20.77	0.39	21.16	<=33.01	Pass
	74				20.22	0.39	20.61	<=33.01	Pass	
	36	0		19.45	0.39	19.84	<=33.01	Pass		
		18		19.57	0.39	19.96	<=33.01	Pass		
		39		19.61	0.39	20.00	<=33.01	Pass		
	75	0		19.52	0.39	19.91	<=33.01	Pass		
	2593	1		0	20.42	0.39	20.81	<=33.01	Pass	
				38	20.69	0.39	21.08	<=33.01	Pass	

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	2682.5	36	74	20.62	0.39	21.01	<=33.01	Pass	
			0	19.21	0.39	19.60	<=33.01	Pass	
			18	19.22	0.39	19.61	<=33.01	Pass	
			39	19.37	0.39	19.76	<=33.01	Pass	
		75	0	19.31	0.39	19.70	<=33.01	Pass	
			1	0	20.29	0.39	20.68	<=33.01	Pass
				38	20.53	0.39	20.92	<=33.01	Pass
	36	74	20.63	0.39	21.02	<=33.01	Pass		
		0	19.30	0.39	19.69	<=33.01	Pass		
		18	19.44	0.39	19.83	<=33.01	Pass		
		39	19.56	0.39	19.95	<=33.01	Pass		
	75	0	19.41	0.39	19.80	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

### 1.4 B41\_20MHz\_EIRP

#### 1.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2506	1	0	22.15	0.39	22.54	<=33.01	Pass		
			50	22.59	0.39	22.98	<=33.01	Pass		
			99	22.46	0.39	22.85	<=33.01	Pass		
		50	0	21.46	0.39	21.85	<=33.01	Pass		
			25	21.63	0.39	22.02	<=33.01	Pass		
			50	21.64	0.39	22.03	<=33.01	Pass		
		100	0	21.57	0.39	21.96	<=33.01	Pass		
		2593	1	0	21.81	0.39	22.20	<=33.01	Pass	
				50	22.33	0.39	22.72	<=33.01	Pass	
				99	22.11	0.39	22.50	<=33.01	Pass	
			50	0	21.07	0.39	21.46	<=33.01	Pass	
				25	21.41	0.39	21.80	<=33.01	Pass	
	50			21.40	0.39	21.79	<=33.01	Pass		
	100	0	21.32	0.39	21.71	<=33.01	Pass			
	2680	1	0	21.95	0.39	22.34	<=33.01	Pass		
			50	22.54	0.39	22.93	<=33.01	Pass		
			99	22.32	0.39	22.71	<=33.01	Pass		
		50	0	21.29	0.39	21.68	<=33.01	Pass		
			25	21.49	0.39	21.88	<=33.01	Pass		
			50	21.41	0.39	21.80	<=33.01	Pass		
		100	0	21.46	0.39	21.85	<=33.01	Pass		
		16QAM	2506	1	0	21.15	0.39	21.54	<=33.01	Pass
					50	22.00	0.39	22.39	<=33.01	Pass
					99	21.43	0.39	21.82	<=33.01	Pass
50				0	20.35	0.39	20.74	<=33.01	Pass	
				25	20.55	0.39	20.94	<=33.01	Pass	
	50			20.59	0.39	20.98	<=33.01	Pass		
100	0		20.49	0.39	20.88	<=33.01	Pass			
2593	1		0	20.58	0.39	20.97	<=33.01	Pass		
			50	21.70	0.39	22.09	<=33.01	Pass		

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64QAM	2680	50	99	20.96	0.39	21.35	<=33.01	Pass	
			0	20.04	0.39	20.43	<=33.01	Pass	
			25	20.33	0.39	20.72	<=33.01	Pass	
		100	50	20.29	0.39	20.68	<=33.01	Pass	
			0	20.18	0.39	20.57	<=33.01	Pass	
			0	20.63	0.39	21.02	<=33.01	Pass	
	2506	1	50	21.16	0.39	21.55	<=33.01	Pass	
			99	21.54	0.39	21.93	<=33.01	Pass	
			0	20.25	0.39	20.64	<=33.01	Pass	
		50	25	20.45	0.39	20.84	<=33.01	Pass	
			50	20.40	0.39	20.79	<=33.01	Pass	
			0	20.35	0.39	20.74	<=33.01	Pass	
	2593	1	0	20.10	0.39	20.49	<=33.01	Pass	
			50	20.44	0.39	20.83	<=33.01	Pass	
			99	20.45	0.39	20.84	<=33.01	Pass	
		50	0	19.25	0.39	19.64	<=33.01	Pass	
			25	19.45	0.39	19.84	<=33.01	Pass	
			50	19.53	0.39	19.92	<=33.01	Pass	
		100	0	19.45	0.39	19.84	<=33.01	Pass	
			0	19.72	0.39	20.11	<=33.01	Pass	
			50	20.10	0.39	20.49	<=33.01	Pass	
		2680	1	99	19.68	0.39	20.07	<=33.01	Pass
				0	19.20	0.39	19.59	<=33.01	Pass
				25	19.28	0.39	19.67	<=33.01	Pass
50	50		19.40	0.39	19.79	<=33.01	Pass		
	0		19.18	0.39	19.57	<=33.01	Pass		
	0		20.19	0.39	20.58	<=33.01	Pass		
2680	1	50	20.52	0.39	20.91	<=33.01	Pass		
		99	20.36	0.39	20.75	<=33.01	Pass		
		0	19.30	0.39	19.69	<=33.01	Pass		
	50	25	19.48	0.39	19.87	<=33.01	Pass		
		50	19.52	0.39	19.91	<=33.01	Pass		
		0	19.39	0.39	19.78	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

## 2. Frequency Stability

### 2.1 B41\_5MHz

#### 2.1.1 Test Result

Band: 41 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2498.5	25	0	20	3.46	-2.375	-0.0010	-2.5 to 2.5	Pass
					3.8	6.022	0.0024	-2.5 to 2.5	Pass
					4.35	-3.734	-0.0015	-2.5 to 2.5	Pass
				-30	3.8	11.501	0.0046	-2.5 to 2.5	Pass
				-20	3.8	4.463	0.0018	-2.5 to 2.5	Pass
				-10	3.8	3.648	0.0015	-2.5 to 2.5	Pass



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16QAM	2593	25	0	0	3.8	-1.903	-0.0008	-2.5 to 2.5	Pass
				10	3.8	2.003	0.0008	-2.5 to 2.5	Pass
				30	3.8	12.259	0.0049	-2.5 to 2.5	Pass
				40	3.8	7.668	0.0031	-2.5 to 2.5	Pass
				50	3.8	2.360	0.0009	-2.5 to 2.5	Pass
	2687.5	25	0	20	3.46	-9.985	-0.0039	-2.5 to 2.5	Pass
					3.8	-21.815	-0.0084	-2.5 to 2.5	Pass
					4.35	-11.988	-0.0046	-2.5 to 2.5	Pass
				-30	3.8	-12.660	-0.0049	-2.5 to 2.5	Pass
				-20	3.8	-22.159	-0.0085	-2.5 to 2.5	Pass
				-10	3.8	-15.278	-0.0059	-2.5 to 2.5	Pass
				0	3.8	-9.656	-0.0037	-2.5 to 2.5	Pass
				10	3.8	-21.772	-0.0084	-2.5 to 2.5	Pass
				30	3.8	-7.167	-0.0028	-2.5 to 2.5	Pass
				40	3.8	-15.106	-0.0058	-2.5 to 2.5	Pass
	50	3.8	-21.687	-0.0084	-2.5 to 2.5	Pass			
	2498.5	25	0	20	3.46	6.309	0.0023	-2.5 to 2.5	Pass
					3.8	17.982	0.0067	-2.5 to 2.5	Pass
					4.35	12.832	0.0048	-2.5 to 2.5	Pass
				-30	3.8	11.230	0.0042	-2.5 to 2.5	Pass
				-20	3.8	5.679	0.0021	-2.5 to 2.5	Pass
				-10	3.8	6.366	0.0024	-2.5 to 2.5	Pass
				0	3.8	-1.502	-0.0006	-2.5 to 2.5	Pass
				10	3.8	-4.764	-0.0018	-2.5 to 2.5	Pass
				30	3.8	11.745	0.0044	-2.5 to 2.5	Pass
				40	3.8	-4.091	-0.0015	-2.5 to 2.5	Pass
	50	3.8	-0.486	-0.0002	-2.5 to 2.5	Pass			
	2593	25	0	20	3.46	9.756	0.0039	-2.5 to 2.5	Pass
					3.8	6.509	0.0026	-2.5 to 2.5	Pass
					4.35	2.632	0.0011	-2.5 to 2.5	Pass
				-30	3.8	5.050	0.0020	-2.5 to 2.5	Pass
				-20	3.8	2.904	0.0012	-2.5 to 2.5	Pass
				-10	3.8	1.616	0.0006	-2.5 to 2.5	Pass
				0	3.8	-0.043	0.0000	-2.5 to 2.5	Pass
				10	3.8	7.768	0.0031	-2.5 to 2.5	Pass
30				3.8	9.584	0.0038	-2.5 to 2.5	Pass	
40				3.8	2.289	0.0009	-2.5 to 2.5	Pass	
50	3.8	-0.644	-0.0003	-2.5 to 2.5	Pass				
2687.5	25	0	20	3.46	-21.529	-0.0083	-2.5 to 2.5	Pass	
				3.8	-11.287	-0.0044	-2.5 to 2.5	Pass	
				4.35	-8.583	-0.0033	-2.5 to 2.5	Pass	
			-30	3.8	-13.275	-0.0051	-2.5 to 2.5	Pass	
			-20	3.8	-10.614	-0.0041	-2.5 to 2.5	Pass	
			-10	3.8	-13.261	-0.0051	-2.5 to 2.5	Pass	
			0	3.8	-17.266	-0.0067	-2.5 to 2.5	Pass	
			10	3.8	-14.591	-0.0056	-2.5 to 2.5	Pass	
			30	3.8	-12.274	-0.0047	-2.5 to 2.5	Pass	
			40	3.8	-9.799	-0.0038	-2.5 to 2.5	Pass	
50	3.8	-10.457	-0.0040	-2.5 to 2.5	Pass				
2687.5	25	0	20	3.46	5.937	0.0022	-2.5 to 2.5	Pass	
				3.8	15.678	0.0058	-2.5 to 2.5	Pass	
				4.35	19.183	0.0071	-2.5 to 2.5	Pass	
				-30	3.8	15.278	0.0057	-2.5 to 2.5	Pass

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				-20	3.8	14.448	0.0054	-2.5 to 2.5	Pass			
				-10	3.8	13.375	0.0050	-2.5 to 2.5	Pass			
				0	3.8	16.322	0.0061	-2.5 to 2.5	Pass			
				10	3.8	15.235	0.0057	-2.5 to 2.5	Pass			
				30	3.8	16.437	0.0061	-2.5 to 2.5	Pass			
				40	3.8	15.807	0.0059	-2.5 to 2.5	Pass			
				50	3.8	23.260	0.0087	-2.5 to 2.5	Pass			
64QAM	2498.5	25	0	20	3.46	13.990	0.0056	-2.5 to 2.5	Pass			
					3.8	4.077	0.0016	-2.5 to 2.5	Pass			
					4.35	-1.488	-0.0006	-2.5 to 2.5	Pass			
				-30	3.8	-1.416	-0.0006	-2.5 to 2.5	Pass			
				-20	3.8	1.159	0.0005	-2.5 to 2.5	Pass			
				-10	3.8	8.869	0.0035	-2.5 to 2.5	Pass			
				0	3.8	13.618	0.0055	-2.5 to 2.5	Pass			
				10	3.8	5.851	0.0023	-2.5 to 2.5	Pass			
				30	3.8	6.852	0.0027	-2.5 to 2.5	Pass			
				40	3.8	8.082	0.0032	-2.5 to 2.5	Pass			
				50	3.8	3.247	0.0013	-2.5 to 2.5	Pass			
				2593	25	0	20	3.46	-17.853	-0.0069	-2.5 to 2.5	Pass
								3.8	-19.269	-0.0074	-2.5 to 2.5	Pass
								4.35	-22.316	-0.0086	-2.5 to 2.5	Pass
							-30	3.8	-22.974	-0.0089	-2.5 to 2.5	Pass
	-20	3.8	-18.024				-0.0070	-2.5 to 2.5	Pass			
	-10	3.8	-9.527				-0.0037	-2.5 to 2.5	Pass			
	0	3.8	-7.410				-0.0029	-2.5 to 2.5	Pass			
	10	3.8	-21.014				-0.0081	-2.5 to 2.5	Pass			
	30	3.8	-13.833				-0.0053	-2.5 to 2.5	Pass			
	40	3.8	-16.923				-0.0065	-2.5 to 2.5	Pass			
	50	3.8	-12.245				-0.0047	-2.5 to 2.5	Pass			
	2687.5	25	0				20	3.46	21.415	0.0080	-2.5 to 2.5	Pass
								3.8	15.693	0.0058	-2.5 to 2.5	Pass
								4.35	17.009	0.0063	-2.5 to 2.5	Pass
							-30	3.8	16.780	0.0062	-2.5 to 2.5	Pass
				-20	3.8	14.462	0.0054	-2.5 to 2.5	Pass			
				-10	3.8	16.251	0.0060	-2.5 to 2.5	Pass			
				0	3.8	5.679	0.0021	-2.5 to 2.5	Pass			
				10	3.8	9.155	0.0034	-2.5 to 2.5	Pass			
30				3.8	21.486	0.0080	-2.5 to 2.5	Pass				
40				3.8	14.277	0.0053	-2.5 to 2.5	Pass				
50				3.8	13.618	0.0051	-2.5 to 2.5	Pass				

2.2 B41\_10MHz

2.2.1 Test Result

Band: 41 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2501	50	0	20	3.46	-14.749	-0.0059	-2.5 to 2.5	Pass
					3.8	-10.357	-0.0041	-2.5 to 2.5	Pass
					4.35	-4.478	-0.0018	-2.5 to 2.5	Pass

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16QAM	2593	50	0	-30	3.8	-11.401	-0.0046	-2.5 to 2.5	Pass			
				-20	3.8	-11.044	-0.0044	-2.5 to 2.5	Pass			
				-10	3.8	-11.330	-0.0045	-2.5 to 2.5	Pass			
				0	3.8	-5.693	-0.0023	-2.5 to 2.5	Pass			
				10	3.8	-2.275	-0.0009	-2.5 to 2.5	Pass			
				30	3.8	-7.710	-0.0031	-2.5 to 2.5	Pass			
				40	3.8	-5.894	-0.0024	-2.5 to 2.5	Pass			
				50	3.8	-9.828	-0.0039	-2.5 to 2.5	Pass			
	2685	50	0	20	3.46	-2.360	-0.0009	-2.5 to 2.5	Pass			
					3.8	2.360	0.0009	-2.5 to 2.5	Pass			
					4.35	-11.802	-0.0046	-2.5 to 2.5	Pass			
				-30	3.8	5.407	0.0021	-2.5 to 2.5	Pass			
				-20	3.8	-1.588	-0.0006	-2.5 to 2.5	Pass			
				-10	3.8	-14.634	-0.0056	-2.5 to 2.5	Pass			
				0	3.8	0.315	0.0001	-2.5 to 2.5	Pass			
				10	3.8	-5.293	-0.0020	-2.5 to 2.5	Pass			
				30	3.8	-4.091	-0.0016	-2.5 to 2.5	Pass			
				40	3.8	3.276	0.0013	-2.5 to 2.5	Pass			
				50	3.8	-3.347	-0.0013	-2.5 to 2.5	Pass			
				2501	50	0	20	3.46	-6.967	-0.0026	-2.5 to 2.5	Pass
								3.8	-1.802	-0.0007	-2.5 to 2.5	Pass
								4.35	-6.552	-0.0024	-2.5 to 2.5	Pass
							-30	3.8	-11.530	-0.0043	-2.5 to 2.5	Pass
							-20	3.8	-15.063	-0.0056	-2.5 to 2.5	Pass
							-10	3.8	-2.689	-0.0010	-2.5 to 2.5	Pass
	0	3.8	-8.597				-0.0032	-2.5 to 2.5	Pass			
	10	3.8	-1.502				-0.0006	-2.5 to 2.5	Pass			
	30	3.8	-14.505				-0.0054	-2.5 to 2.5	Pass			
	40	3.8	-8.383				-0.0031	-2.5 to 2.5	Pass			
	2593	50	0	20	3.46	-13.418	-0.0054	-2.5 to 2.5	Pass			
					3.8	-5.078	-0.0020	-2.5 to 2.5	Pass			
					4.35	-7.482	-0.0030	-2.5 to 2.5	Pass			
				-30	3.8	-4.449	-0.0018	-2.5 to 2.5	Pass			
				-20	3.8	-7.696	-0.0031	-2.5 to 2.5	Pass			
				-10	3.8	-5.221	-0.0021	-2.5 to 2.5	Pass			
				0	3.8	-3.619	-0.0014	-2.5 to 2.5	Pass			
				10	3.8	-15.550	-0.0062	-2.5 to 2.5	Pass			
				30	3.8	-4.578	-0.0018	-2.5 to 2.5	Pass			
				40	3.8	0.844	0.0003	-2.5 to 2.5	Pass			
				50	3.8	-10.486	-0.0042	-2.5 to 2.5	Pass			
				2685	50	0	20	3.46	-16.952	-0.0065	-2.5 to 2.5	Pass
								3.8	-6.094	-0.0024	-2.5 to 2.5	Pass
								4.35	-0.730	-0.0003	-2.5 to 2.5	Pass
							-30	3.8	1.473	0.0006	-2.5 to 2.5	Pass
							-20	3.8	-4.621	-0.0018	-2.5 to 2.5	Pass
-10							3.8	-5.207	-0.0020	-2.5 to 2.5	Pass	
0							3.8	-3.991	-0.0015	-2.5 to 2.5	Pass	
10	3.8	-9.556	-0.0037				-2.5 to 2.5	Pass				
30	3.8	-4.249	-0.0016				-2.5 to 2.5	Pass				
40	3.8	-5.679	-0.0022	-2.5 to 2.5	Pass							
50	3.8	-11.415	-0.0044	-2.5 to 2.5	Pass							
20	3.46	-14.176	-0.0053	-2.5 to 2.5	Pass							

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64QAM	2501	50	0		3.8	-3.390	-0.0013	-2.5 to 2.5	Pass
					4.35	-0.243	-0.0001	-2.5 to 2.5	Pass
				-30	3.8	-4.306	-0.0016	-2.5 to 2.5	Pass
				-20	3.8	-9.556	-0.0036	-2.5 to 2.5	Pass
				-10	3.8	-11.959	-0.0045	-2.5 to 2.5	Pass
				0	3.8	-11.530	-0.0043	-2.5 to 2.5	Pass
				10	3.8	-8.698	-0.0032	-2.5 to 2.5	Pass
				30	3.8	-7.682	-0.0029	-2.5 to 2.5	Pass
				40	3.8	-4.220	-0.0016	-2.5 to 2.5	Pass
	50	3.8	-7.396	-0.0028	-2.5 to 2.5	Pass			
	2593	50	0		3.46	-10.557	-0.0042	-2.5 to 2.5	Pass
					3.8	-13.175	-0.0053	-2.5 to 2.5	Pass
					4.35	-9.255	-0.0037	-2.5 to 2.5	Pass
				-30	3.8	-9.928	-0.0040	-2.5 to 2.5	Pass
				-20	3.8	-9.499	-0.0038	-2.5 to 2.5	Pass
				-10	3.8	-10.743	-0.0043	-2.5 to 2.5	Pass
				0	3.8	-4.764	-0.0019	-2.5 to 2.5	Pass
				10	3.8	-5.836	-0.0023	-2.5 to 2.5	Pass
30				3.8	-3.562	-0.0014	-2.5 to 2.5	Pass	
40		3.8	-7.167	-0.0029	-2.5 to 2.5	Pass			
50		3.8	-1.101	-0.0004	-2.5 to 2.5	Pass			
2685		50	0		3.46	-4.177	-0.0016	-2.5 to 2.5	Pass
					3.8	-2.103	-0.0008	-2.5 to 2.5	Pass
					4.35	-3.591	-0.0014	-2.5 to 2.5	Pass
				-30	3.8	-6.995	-0.0027	-2.5 to 2.5	Pass
				-20	3.8	-3.748	-0.0014	-2.5 to 2.5	Pass
				-10	3.8	-0.386	-0.0001	-2.5 to 2.5	Pass
				0	3.8	-0.358	-0.0001	-2.5 to 2.5	Pass
	10			3.8	-7.939	-0.0031	-2.5 to 2.5	Pass	
	30			3.8	-6.480	-0.0025	-2.5 to 2.5	Pass	
	40	3.8	-4.005	-0.0015	-2.5 to 2.5	Pass			
	50	3.8	-5.078	-0.0020	-2.5 to 2.5	Pass			
	2685	50	0		3.46	-2.804	-0.0010	-2.5 to 2.5	Pass
					3.8	-6.981	-0.0026	-2.5 to 2.5	Pass
					4.35	-10.486	-0.0039	-2.5 to 2.5	Pass
				-30	3.8	-10.943	-0.0041	-2.5 to 2.5	Pass
				-20	3.8	-3.648	-0.0014	-2.5 to 2.5	Pass
				-10	3.8	-9.999	-0.0037	-2.5 to 2.5	Pass
				0	3.8	-5.250	-0.0020	-2.5 to 2.5	Pass
10				3.8	-5.736	-0.0021	-2.5 to 2.5	Pass	
30				3.8	-6.795	-0.0025	-2.5 to 2.5	Pass	
40	3.8	-7.839	-0.0029	-2.5 to 2.5	Pass				
50	3.8	-6.094	-0.0023	-2.5 to 2.5	Pass				

2.3 B41\_15MHz

2.3.1 Test Result

Band: 41 / 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	2503.5	75	0	20	3.46	-8.597	-0.0034	-2.5 to 2.5	Pass						
					3.8	-11.315	-0.0045	-2.5 to 2.5	Pass						
					4.35	-8.512	-0.0034	-2.5 to 2.5	Pass						
				-30	3.8	-9.570	-0.0038	-2.5 to 2.5	Pass						
										-20	3.8	-10.085	-0.0040	-2.5 to 2.5	Pass
											-10	3.8	-7.553	-0.0030	-2.5 to 2.5
				0	3.8	-10.743	-0.0043	-2.5 to 2.5	Pass						
				10	3.8	-10.314	-0.0041	-2.5 to 2.5	Pass						
				30	3.8	-8.726	-0.0035	-2.5 to 2.5	Pass						
	40	3.8	-4.292	-0.0017	-2.5 to 2.5	Pass									
	50	3.8	-15.178	-0.0061	-2.5 to 2.5	Pass									
	2593	75	0	20	3.46	-5.407	-0.0021	-2.5 to 2.5	Pass						
					3.8	-2.990	-0.0012	-2.5 to 2.5	Pass						
					4.35	-5.407	-0.0021	-2.5 to 2.5	Pass						
				-30	3.8	-6.638	-0.0026	-2.5 to 2.5	Pass						
										-20	3.8	0.215	0.0001	-2.5 to 2.5	Pass
											-10	3.8	-7.424	-0.0029	-2.5 to 2.5
				0	3.8	-11.501	-0.0044	-2.5 to 2.5	Pass						
10				3.8	-7.524	-0.0029	-2.5 to 2.5	Pass							
30				3.8	-6.251	-0.0024	-2.5 to 2.5	Pass							
40	3.8	-3.333	-0.0013	-2.5 to 2.5	Pass										
50	3.8	-1.588	-0.0006	-2.5 to 2.5	Pass										
2682.5	75	0	20	3.46	-11.387	-0.0042	-2.5 to 2.5	Pass							
				3.8	-4.292	-0.0016	-2.5 to 2.5	Pass							
				4.35	-3.762	-0.0014	-2.5 to 2.5	Pass							
			-30	3.8	-0.329	-0.0001	-2.5 to 2.5	Pass							
									-20	3.8	-9.999	-0.0037	-2.5 to 2.5	Pass	
										-10	3.8	-7.639	-0.0028	-2.5 to 2.5	Pass
			0	3.8	-2.747	-0.0010	-2.5 to 2.5	Pass							
			10	3.8	-6.523	-0.0024	-2.5 to 2.5	Pass							
			30	3.8	-4.907	-0.0018	-2.5 to 2.5	Pass							
40	3.8	-11.258	-0.0042	-2.5 to 2.5	Pass										
50	3.8	-6.380	-0.0024	-2.5 to 2.5	Pass										
16QAM	2503.5	75	0	20	3.46	-4.363	-0.0017	-2.5 to 2.5	Pass						
					3.8	-8.183	-0.0033	-2.5 to 2.5	Pass						
					4.35	-9.084	-0.0036	-2.5 to 2.5	Pass						
				-30	3.8	-12.159	-0.0049	-2.5 to 2.5	Pass						
										-20	3.8	-10.729	-0.0043	-2.5 to 2.5	Pass
											-10	3.8	-9.584	-0.0038	-2.5 to 2.5
				0	3.8	-9.942	-0.0040	-2.5 to 2.5	Pass						
				10	3.8	-13.232	-0.0053	-2.5 to 2.5	Pass						
				30	3.8	-9.856	-0.0039	-2.5 to 2.5	Pass						
	40	3.8	-8.883	-0.0035	-2.5 to 2.5	Pass									
	50	3.8	-6.609	-0.0026	-2.5 to 2.5	Pass									
	2593	75	0	20	3.46	-10.157	-0.0039	-2.5 to 2.5	Pass						
					3.8	-0.329	-0.0001	-2.5 to 2.5	Pass						
					4.35	0.358	0.0001	-2.5 to 2.5	Pass						
				-30	3.8	-7.854	-0.0030	-2.5 to 2.5	Pass						
										-20	3.8	-5.779	-0.0022	-2.5 to 2.5	Pass
											-10	3.8	-6.280	-0.0024	-2.5 to 2.5
				0	3.8	-5.221	-0.0020	-2.5 to 2.5	Pass						
10				3.8	-6.080	-0.0023	-2.5 to 2.5	Pass							
30				3.8	-3.977	-0.0015	-2.5 to 2.5	Pass							

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	2682.5	75	0	40	3.8	-3.819	-0.0015	-2.5 to 2.5	Pass				
				50	3.8	-6.838	-0.0026	-2.5 to 2.5	Pass				
				20	3.46	-4.277	-0.0016	-2.5 to 2.5	Pass				
					3.8	-4.492	-0.0017	-2.5 to 2.5	Pass				
					4.35	-4.277	-0.0016	-2.5 to 2.5	Pass				
				-30	3.8	-5.937	-0.0022	-2.5 to 2.5	Pass				
				-20	3.8	1.659	0.0006	-2.5 to 2.5	Pass				
				-10	3.8	-11.258	-0.0042	-2.5 to 2.5	Pass				
				0	3.8	-5.307	-0.0020	-2.5 to 2.5	Pass				
				10	3.8	-4.878	-0.0018	-2.5 to 2.5	Pass				
				30	3.8	-1.173	-0.0004	-2.5 to 2.5	Pass				
				40	3.8	-8.125	-0.0030	-2.5 to 2.5	Pass				
				50	3.8	-7.725	-0.0029	-2.5 to 2.5	Pass				
				64QAM	2503.5	75	0	20	3.46	-15.063	-0.0060	-2.5 to 2.5	Pass
									3.8	-7.210	-0.0029	-2.5 to 2.5	Pass
									4.35	-10.328	-0.0041	-2.5 to 2.5	Pass
								-30	3.8	-2.904	-0.0012	-2.5 to 2.5	Pass
								-20	3.8	-10.057	-0.0040	-2.5 to 2.5	Pass
								-10	3.8	-7.281	-0.0029	-2.5 to 2.5	Pass
0	3.8	-11.687	-0.0047					-2.5 to 2.5	Pass				
10	3.8	-9.899	-0.0040					-2.5 to 2.5	Pass				
30	3.8	-12.159	-0.0049					-2.5 to 2.5	Pass				
40	3.8	-11.573	-0.0046		-2.5 to 2.5	Pass							
50	3.8	-8.583	-0.0034		-2.5 to 2.5	Pass							
2593	75	0	20		3.46	-6.223	-0.0024	-2.5 to 2.5	Pass				
					3.8	-5.307	-0.0020	-2.5 to 2.5	Pass				
					4.35	-6.251	-0.0024	-2.5 to 2.5	Pass				
			-30		3.8	-1.431	-0.0006	-2.5 to 2.5	Pass				
			-20		3.8	-12.331	-0.0048	-2.5 to 2.5	Pass				
			-10		3.8	-4.120	-0.0016	-2.5 to 2.5	Pass				
			0		3.8	-4.835	-0.0019	-2.5 to 2.5	Pass				
			10		3.8	-4.463	-0.0017	-2.5 to 2.5	Pass				
			30	3.8	-7.081	-0.0027	-2.5 to 2.5	Pass					
40	3.8	-2.303	-0.0009	-2.5 to 2.5	Pass								
50	3.8	-2.446	-0.0009	-2.5 to 2.5	Pass								
2682.5	75	0	20	3.46	-8.569	-0.0032	-2.5 to 2.5	Pass					
				3.8	-3.262	-0.0012	-2.5 to 2.5	Pass					
				4.35	-9.398	-0.0035	-2.5 to 2.5	Pass					
			-30	3.8	-5.107	-0.0019	-2.5 to 2.5	Pass					
			-20	3.8	-5.078	-0.0019	-2.5 to 2.5	Pass					
			-10	3.8	-6.065	-0.0023	-2.5 to 2.5	Pass					
			0	3.8	-3.676	-0.0014	-2.5 to 2.5	Pass					
			10	3.8	-4.320	-0.0016	-2.5 to 2.5	Pass					
			30	3.8	-4.206	-0.0016	-2.5 to 2.5	Pass					
40	3.8	-9.198	-0.0034	-2.5 to 2.5	Pass								
50	3.8	-7.396	-0.0028	-2.5 to 2.5	Pass								

## 2.4 B41\_20MHz

### 2.4.1 Test Result



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Band: 41 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2506	100	0	20	3.46	-8.526	-0.0034	-2.5 to 2.5	Pass
					3.8	-6.509	-0.0026	-2.5 to 2.5	Pass
					4.35	-6.838	-0.0027	-2.5 to 2.5	Pass
				-30	3.8	-4.148	-0.0017	-2.5 to 2.5	Pass
					-20	3.8	-6.251	-0.0025	-2.5 to 2.5
				-10	3.8	-8.440	-0.0034	-2.5 to 2.5	Pass
					0	3.8	-4.492	-0.0018	-2.5 to 2.5
				10	3.8	-15.192	-0.0061	-2.5 to 2.5	Pass
					30	3.8	-10.986	-0.0044	-2.5 to 2.5
				40	3.8	-15.221	-0.0061	-2.5 to 2.5	Pass
	50	3.8	-1.416		-0.0006	-2.5 to 2.5	Pass		
	2593	100	0	20	3.46	-11.601	-0.0045	-2.5 to 2.5	Pass
					3.8	-1.388	-0.0005	-2.5 to 2.5	Pass
					4.35	-9.570	-0.0037	-2.5 to 2.5	Pass
				-30	3.8	-4.063	-0.0016	-2.5 to 2.5	Pass
					-20	3.8	-3.362	-0.0013	-2.5 to 2.5
				-10	3.8	-4.907	-0.0019	-2.5 to 2.5	Pass
					0	3.8	-2.217	-0.0009	-2.5 to 2.5
				10	3.8	-2.990	-0.0012	-2.5 to 2.5	Pass
					30	3.8	-5.021	-0.0019	-2.5 to 2.5
				40	3.8	-2.918	-0.0011	-2.5 to 2.5	Pass
	50	3.8	-4.234		-0.0016	-2.5 to 2.5	Pass		
	2680	100	0	20	3.46	-10.343	-0.0039	-2.5 to 2.5	Pass
					3.8	-7.467	-0.0028	-2.5 to 2.5	Pass
					4.35	-4.392	-0.0016	-2.5 to 2.5	Pass
				-30	3.8	-5.593	-0.0021	-2.5 to 2.5	Pass
					-20	3.8	-1.502	-0.0006	-2.5 to 2.5
				-10	3.8	-11.015	-0.0041	-2.5 to 2.5	Pass
					0	3.8	-1.702	-0.0006	-2.5 to 2.5
				10	3.8	-4.992	-0.0019	-2.5 to 2.5	Pass
30					3.8	-7.796	-0.0029	-2.5 to 2.5	Pass
40				3.8	-4.005	-0.0015	-2.5 to 2.5	Pass	
	50	3.8	-5.679	-0.0021	-2.5 to 2.5	Pass			
16QAM	2506	100	0	20	3.46	-4.349	-0.0017	-2.5 to 2.5	Pass
					3.8	-5.379	-0.0021	-2.5 to 2.5	Pass
					4.35	-9.985	-0.0040	-2.5 to 2.5	Pass
				-30	3.8	-1.416	-0.0006	-2.5 to 2.5	Pass
					-20	3.8	-4.992	-0.0020	-2.5 to 2.5
				-10	3.8	-7.138	-0.0028	-2.5 to 2.5	Pass
					0	3.8	-12.088	-0.0048	-2.5 to 2.5
				10	3.8	-13.018	-0.0052	-2.5 to 2.5	Pass
					30	3.8	-6.037	-0.0024	-2.5 to 2.5
				40	3.8	-11.501	-0.0046	-2.5 to 2.5	Pass
	50	3.8	-3.991		-0.0016	-2.5 to 2.5	Pass		
	2593	100	0	20	3.46	-5.636	-0.0022	-2.5 to 2.5	Pass
					3.8	-6.423	-0.0025	-2.5 to 2.5	Pass
					4.35	-3.791	-0.0015	-2.5 to 2.5	Pass
				-30	3.8	-3.748	-0.0014	-2.5 to 2.5	Pass
					-20	3.8	-2.460	-0.0009	-2.5 to 2.5
				-10	3.8	-5.164	-0.0020	-2.5 to 2.5	Pass

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				0	3.8	-5.078	-0.0020	-2.5 to 2.5	Pass
				10	3.8	-2.174	-0.0008	-2.5 to 2.5	Pass
				30	3.8	1.259	0.0005	-2.5 to 2.5	Pass
				40	3.8	-1.230	-0.0005	-2.5 to 2.5	Pass
				50	3.8	-7.453	-0.0029	-2.5 to 2.5	Pass
	2680	100	0	20	3.46	-1.273	-0.0005	-2.5 to 2.5	Pass
					3.8	-7.010	-0.0026	-2.5 to 2.5	Pass
					4.35	-6.924	-0.0026	-2.5 to 2.5	Pass
				-30	3.8	-12.217	-0.0046	-2.5 to 2.5	Pass
				-20	3.8	-6.380	-0.0024	-2.5 to 2.5	Pass
				-10	3.8	-1.345	-0.0005	-2.5 to 2.5	Pass
				0	3.8	-8.497	-0.0032	-2.5 to 2.5	Pass
				10	3.8	-6.108	-0.0023	-2.5 to 2.5	Pass
				30	3.8	-7.625	-0.0028	-2.5 to 2.5	Pass
				40	3.8	-2.475	-0.0009	-2.5 to 2.5	Pass
50	3.8	-9.785	-0.0037	-2.5 to 2.5	Pass				
64QAM	2506	100	0	20	3.46	-6.995	-0.0028	-2.5 to 2.5	Pass
					3.8	-6.080	-0.0024	-2.5 to 2.5	Pass
					4.35	-7.882	-0.0031	-2.5 to 2.5	Pass
				-30	3.8	-5.522	-0.0022	-2.5 to 2.5	Pass
				-20	3.8	-7.539	-0.0030	-2.5 to 2.5	Pass
				-10	3.8	-2.160	-0.0009	-2.5 to 2.5	Pass
				0	3.8	-5.064	-0.0020	-2.5 to 2.5	Pass
				10	3.8	-8.011	-0.0032	-2.5 to 2.5	Pass
				30	3.8	-7.954	-0.0032	-2.5 to 2.5	Pass
				40	3.8	-5.050	-0.0020	-2.5 to 2.5	Pass
	50	3.8	-3.705	-0.0015	-2.5 to 2.5	Pass			
	2593	100	0	20	3.46	-4.463	-0.0017	-2.5 to 2.5	Pass
					3.8	-5.093	-0.0020	-2.5 to 2.5	Pass
					4.35	-4.234	-0.0016	-2.5 to 2.5	Pass
				-30	3.8	-3.147	-0.0012	-2.5 to 2.5	Pass
				-20	3.8	-7.296	-0.0028	-2.5 to 2.5	Pass
				-10	3.8	-3.762	-0.0015	-2.5 to 2.5	Pass
				0	3.8	-9.427	-0.0036	-2.5 to 2.5	Pass
				10	3.8	-6.137	-0.0024	-2.5 to 2.5	Pass
				30	3.8	-1.988	-0.0008	-2.5 to 2.5	Pass
				40	3.8	-4.320	-0.0017	-2.5 to 2.5	Pass
	50	3.8	4.807	0.0019	-2.5 to 2.5	Pass			
	2680	100	0	20	3.46	-1.116	-0.0004	-2.5 to 2.5	Pass
					3.8	-7.868	-0.0029	-2.5 to 2.5	Pass
					4.35	-4.864	-0.0018	-2.5 to 2.5	Pass
-30				3.8	-3.576	-0.0013	-2.5 to 2.5	Pass	
-20				3.8	-6.180	-0.0023	-2.5 to 2.5	Pass	
-10				3.8	-10.285	-0.0038	-2.5 to 2.5	Pass	
0				3.8	0.043	0.0000	-2.5 to 2.5	Pass	
10				3.8	-9.513	-0.0035	-2.5 to 2.5	Pass	
30				3.8	-3.591	-0.0013	-2.5 to 2.5	Pass	
40				3.8	-12.331	-0.0046	-2.5 to 2.5	Pass	
50	3.8	-9.928	-0.0037	-2.5 to 2.5	Pass				

### 3. Modulation Characteristics



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3.1 B41\_5MHz

3.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	25	0	Refer To Test Graph		Pass
16QAM	2593	25	0	Refer To Test Graph		Pass
64QAM	2593	25	0	Refer To Test Graph		Pass



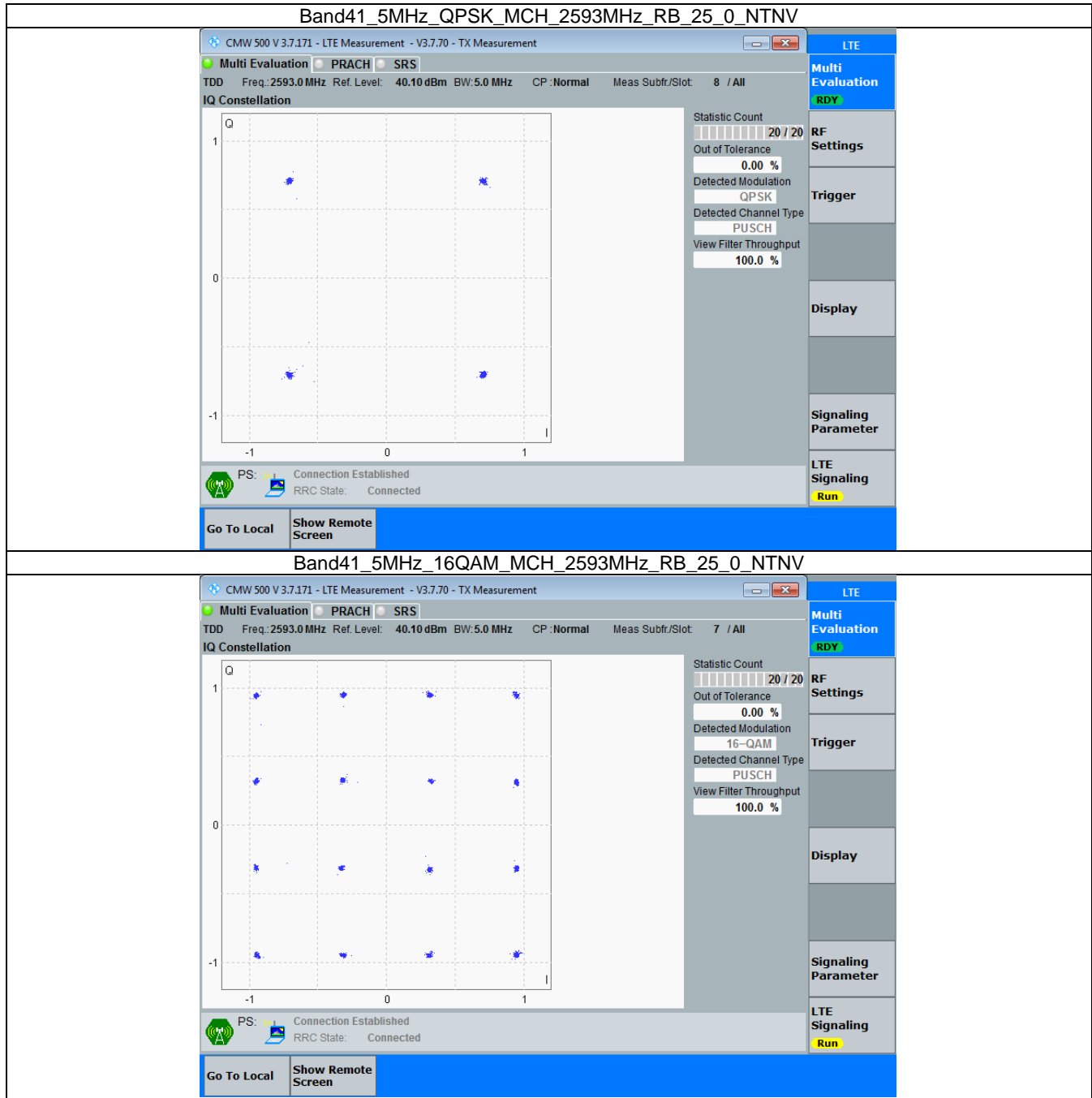
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3.1.2 Test Graph

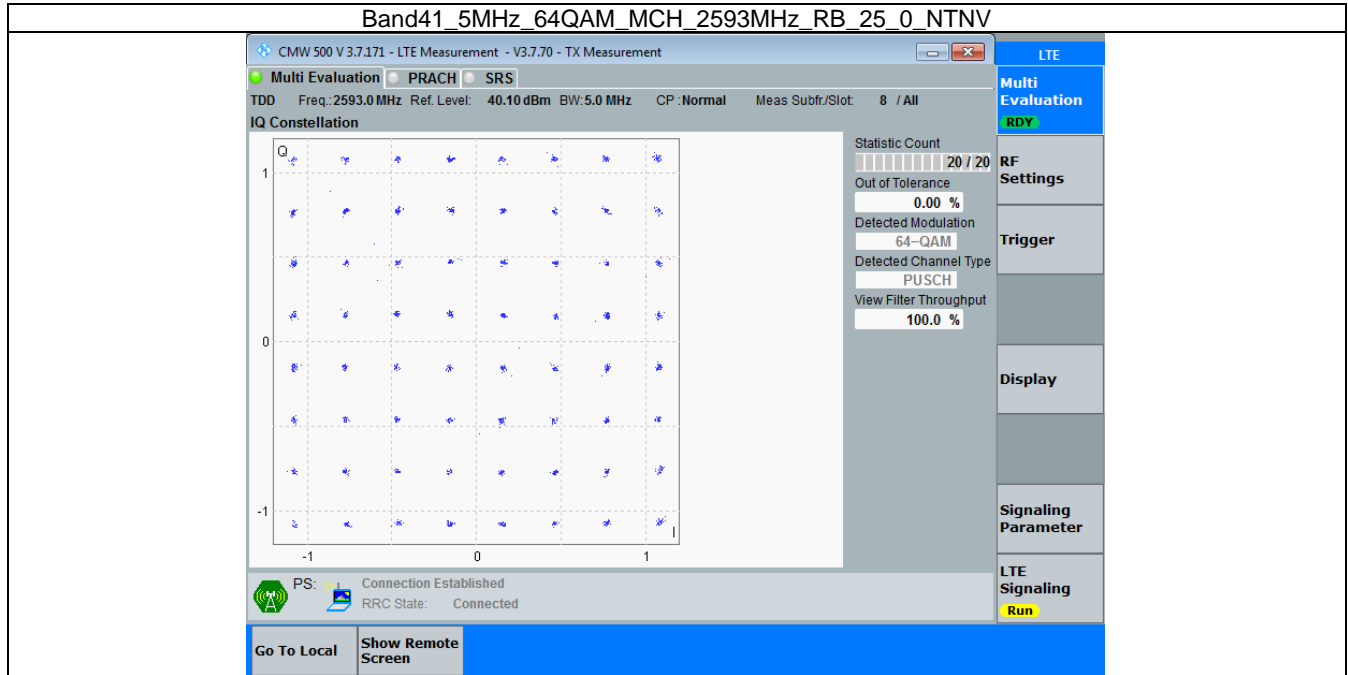


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3.2 B41\_10MHz

3.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	50	0	Refer To Test Graph		Pass
16QAM	2593	50	0	Refer To Test Graph		Pass
64QAM	2593	50	0	Refer To Test Graph		Pass



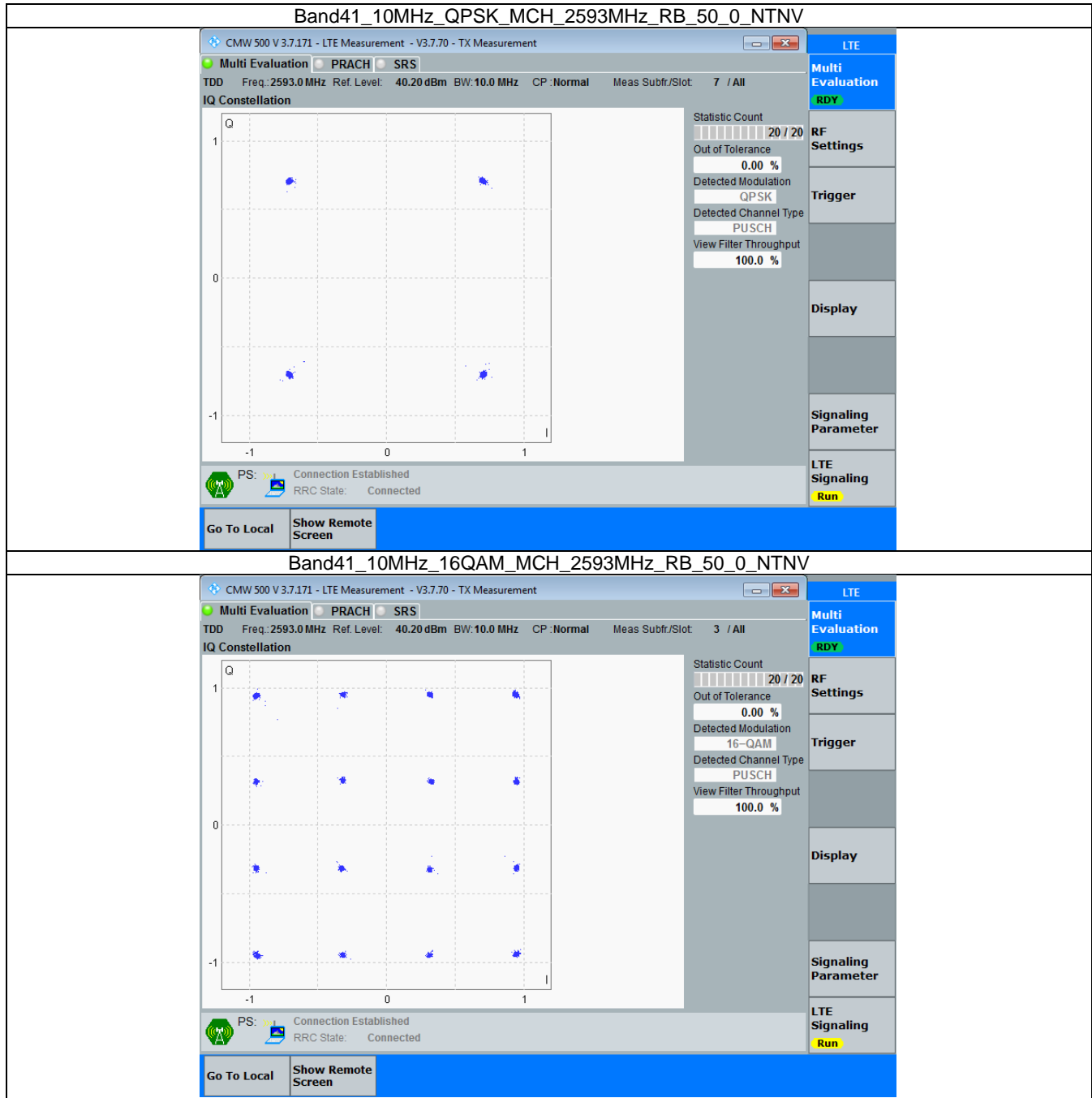
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3.2.2 Test Graph

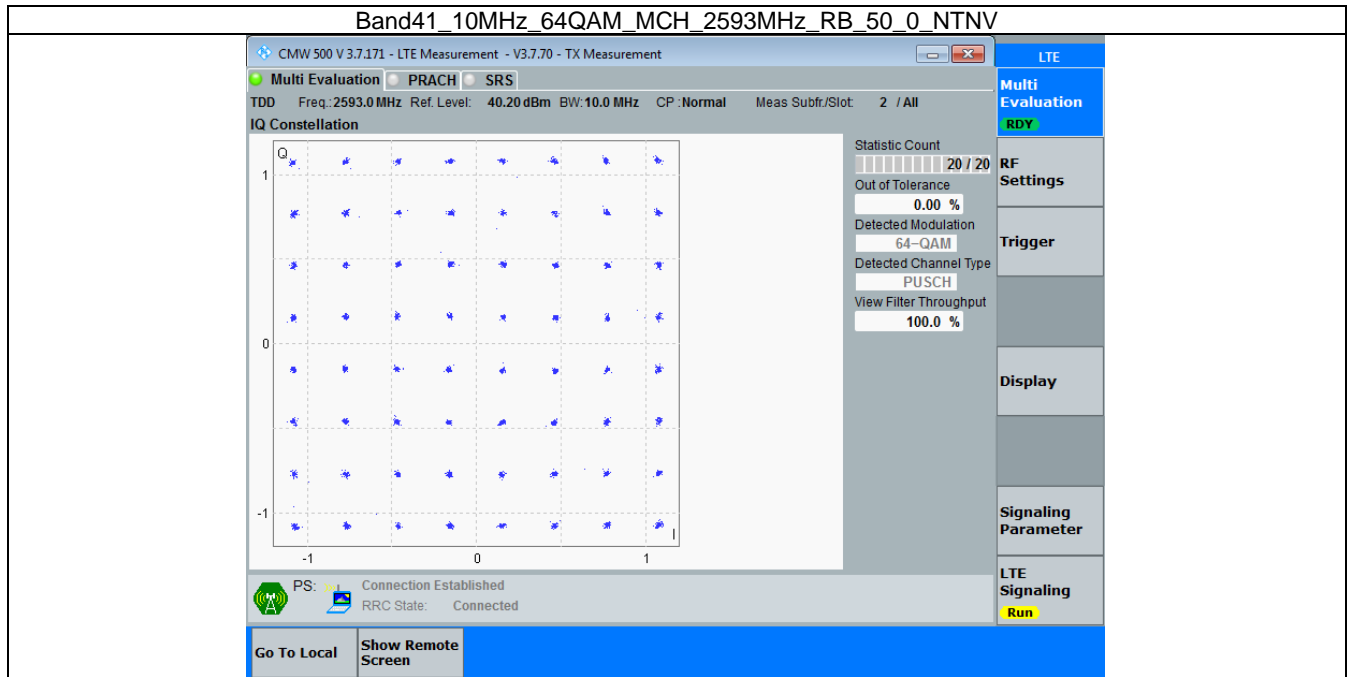


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3.3 B41\_15MHz

3.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	75	0	Refer To Test Graph		Pass
16QAM	2593	75	0	Refer To Test Graph		Pass
64QAM	2593	75	0	Refer To Test Graph		Pass



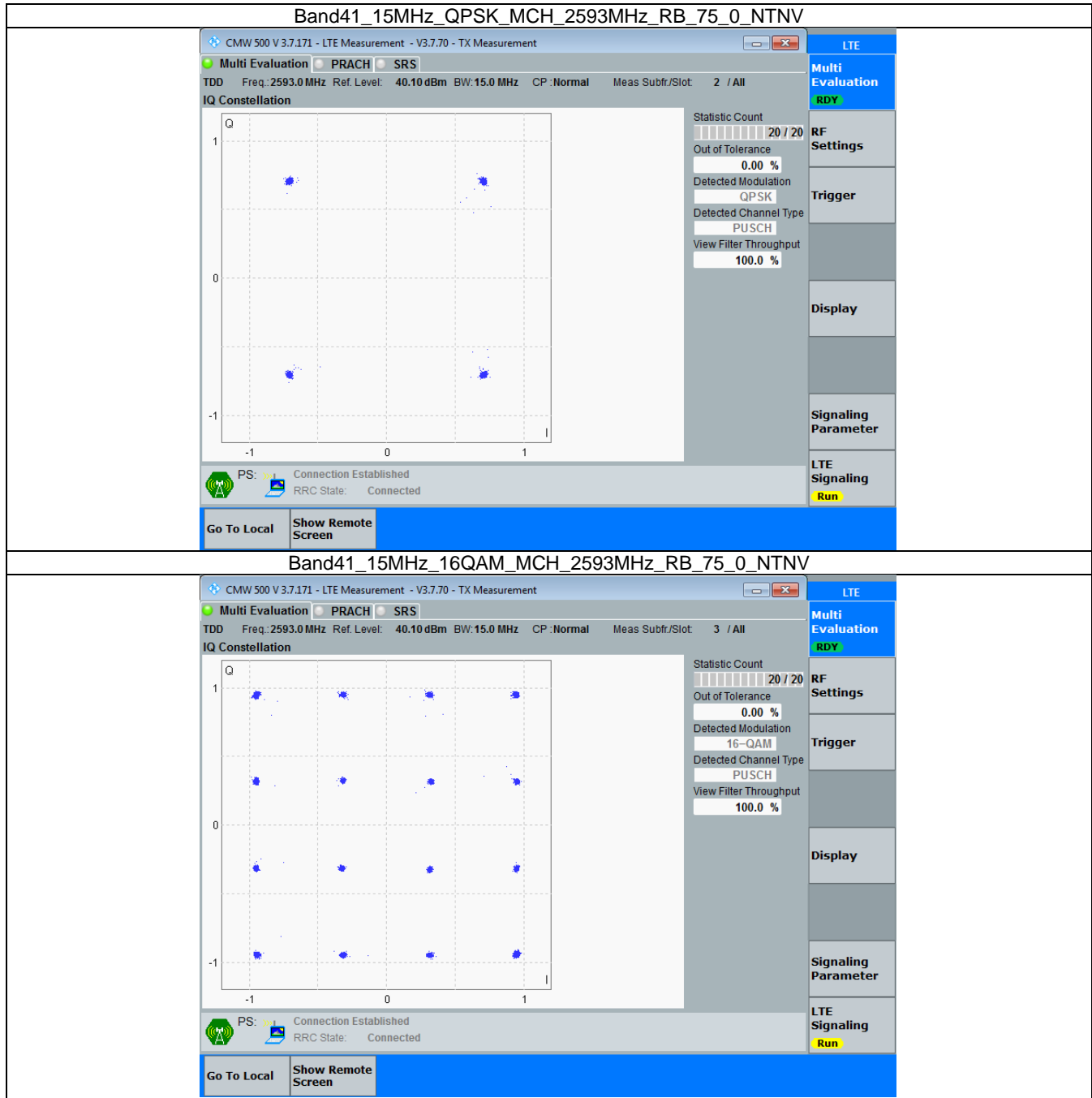
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3.3.2 Test Graph

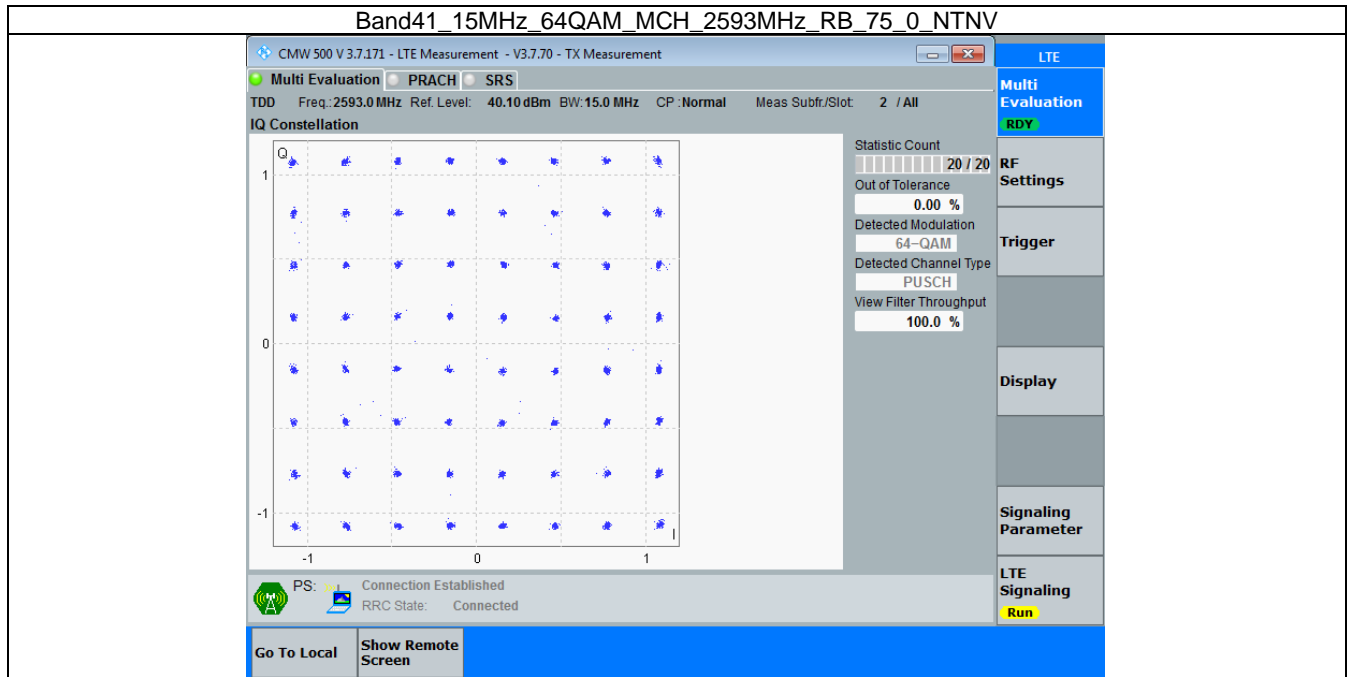


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3.4 B41\_20MHz

3.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	100	0	Refer To Test Graph		Pass
16QAM	2593	100	0	Refer To Test Graph		Pass
64QAM	2593	100	0	Refer To Test Graph		Pass



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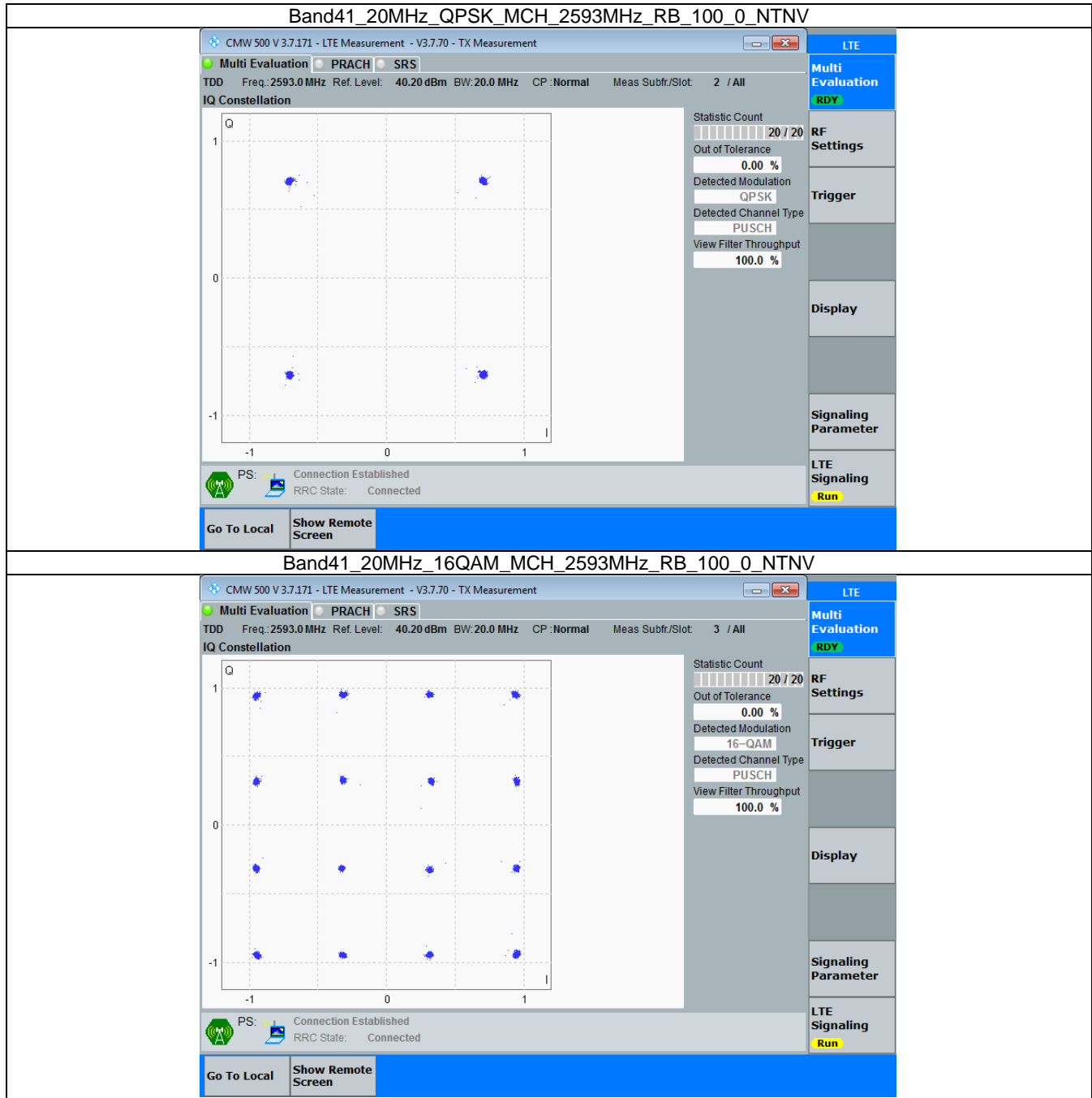
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3.4.2 Test Graph

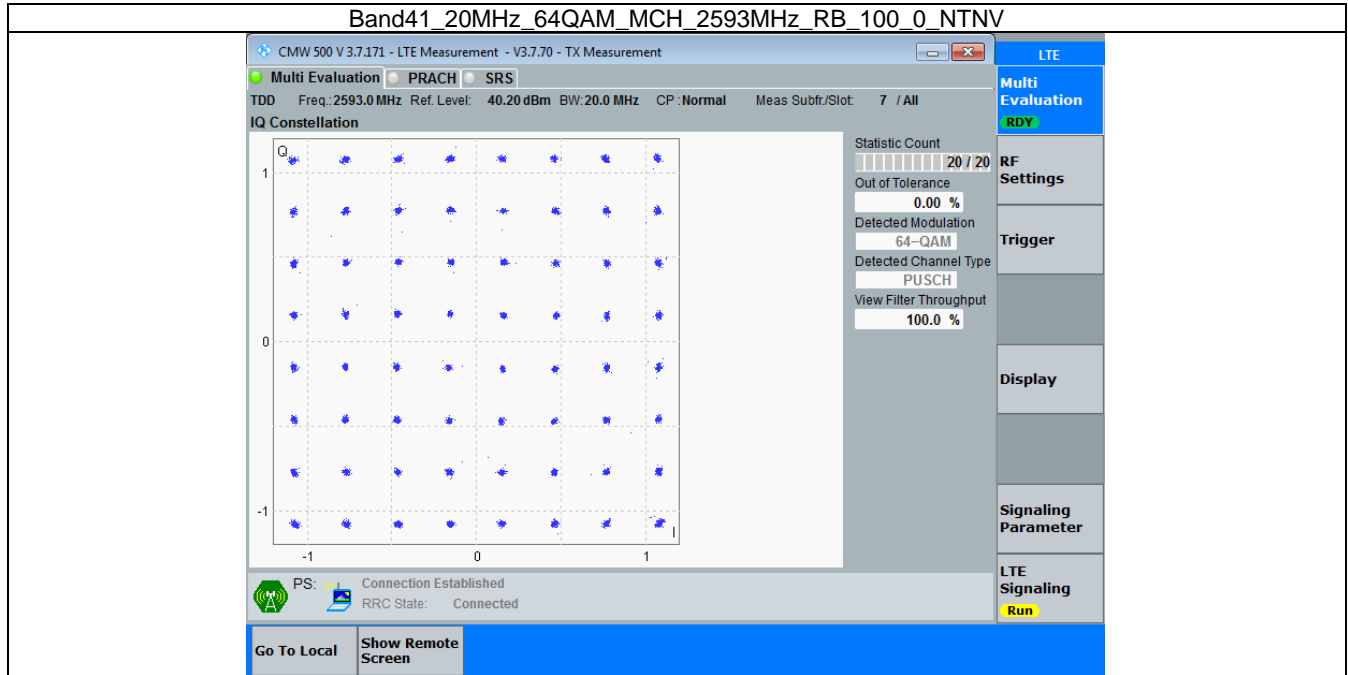


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4. 99% & 26dB Bandwidth

4.1 Band41\_OBW

4.1.1 Test Result

Band: 41 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2498.5	25	0	4.545	Pass
		2593	25	0	4.540	Pass
		2687.5	25	0	4.535	Pass
	16QAM	2498.5	25	0	4.526	Pass
		2593	25	0	4.553	Pass
		2687.5	25	0	4.516	Pass
	64QAM	2498.5	25	0	4.536	Pass
		2593	25	0	4.543	Pass
		2687.5	25	0	4.541	Pass
10	QPSK	2501	50	0	9.059	Pass
		2593	50	0	9.034	Pass
		2685	50	0	9.085	Pass
	16QAM	2501	50	0	9.073	Pass
		2593	50	0	9.045	Pass
		2685	50	0	9.062	Pass
	64QAM	2501	50	0	9.059	Pass
		2593	50	0	9.039	Pass
		2685	50	0	9.068	Pass
15	QPSK	2503.5	75	0	13.585	Pass
		2593	75	0	13.572	Pass
		2682.5	75	0	13.554	Pass
	16QAM	2503.5	75	0	13.564	Pass
		2593	75	0	13.574	Pass
		2682.5	75	0	13.629	Pass
	64QAM	2503.5	75	0	13.564	Pass
		2593	75	0	13.602	Pass
		2682.5	75	0	13.591	Pass
20	QPSK	2506	100	0	18.097	Pass
		2593	100	0	18.076	Pass
		2680	100	0	18.121	Pass
	16QAM	2506	100	0	18.074	Pass
		2593	100	0	18.091	Pass
		2680	100	0	18.096	Pass
	64QAM	2506	100	0	18.032	Pass
		2593	100	0	18.070	Pass
		2680	100	0	18.108	Pass



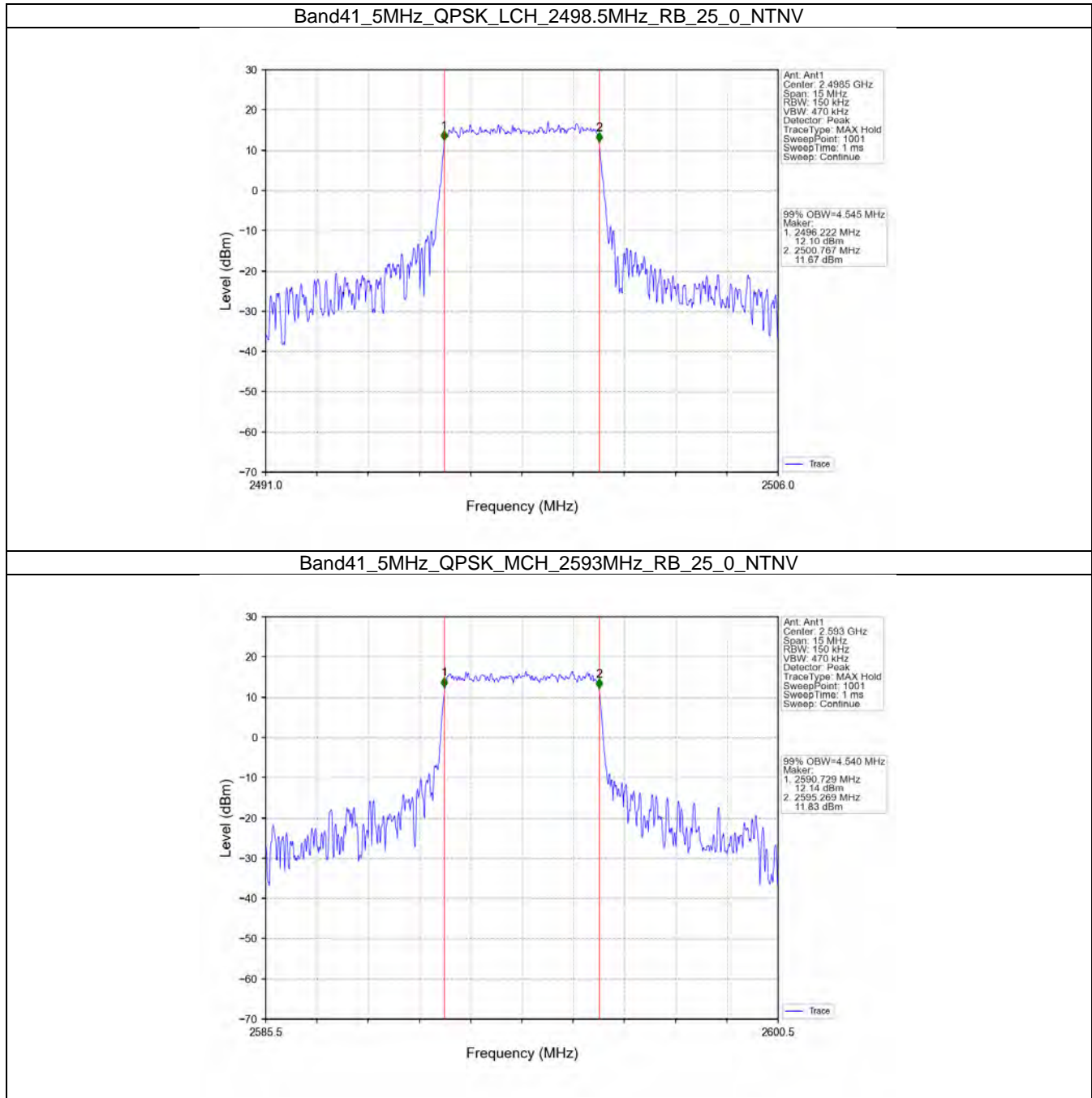
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## 4.1.2 Test Graph



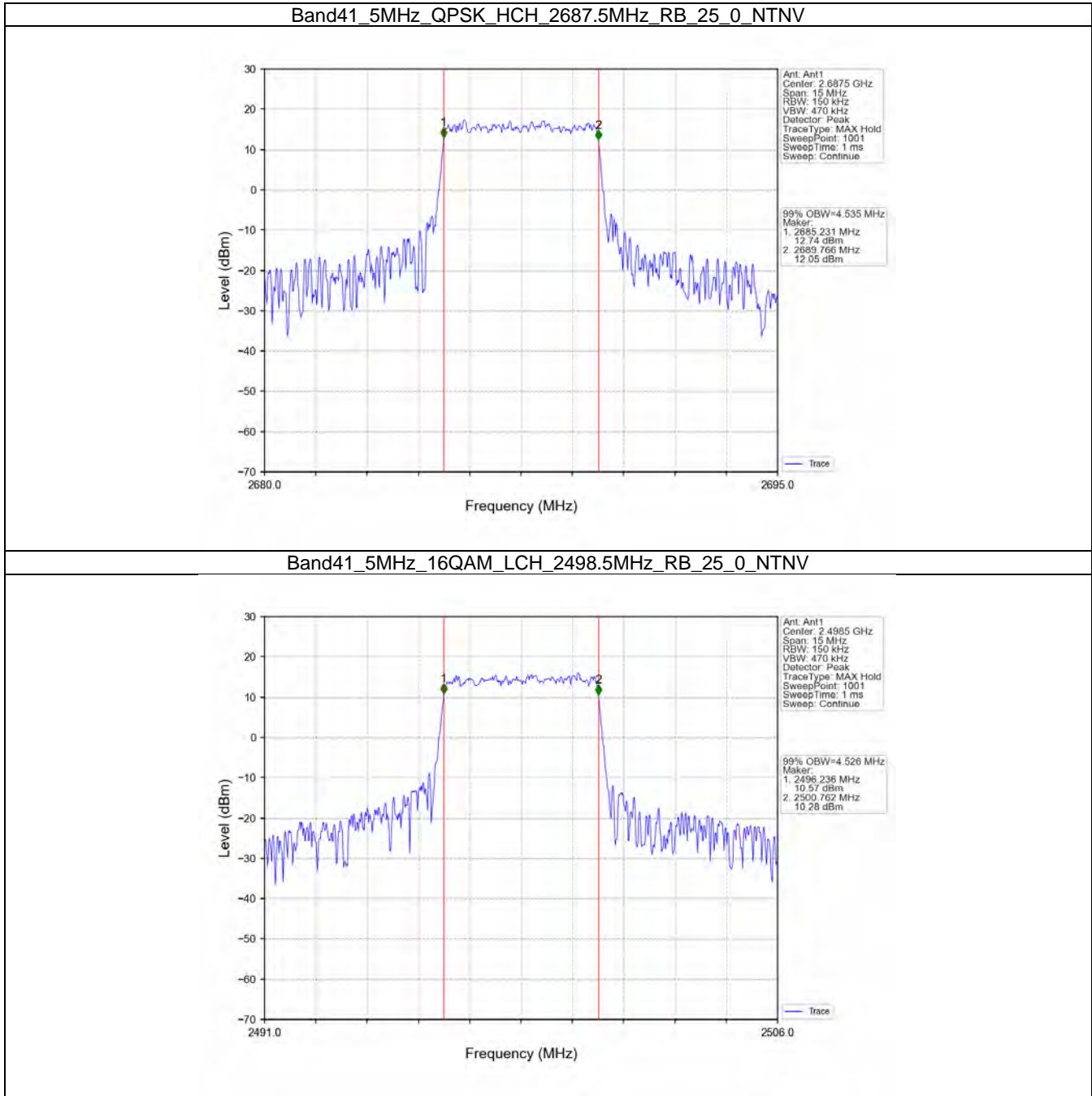
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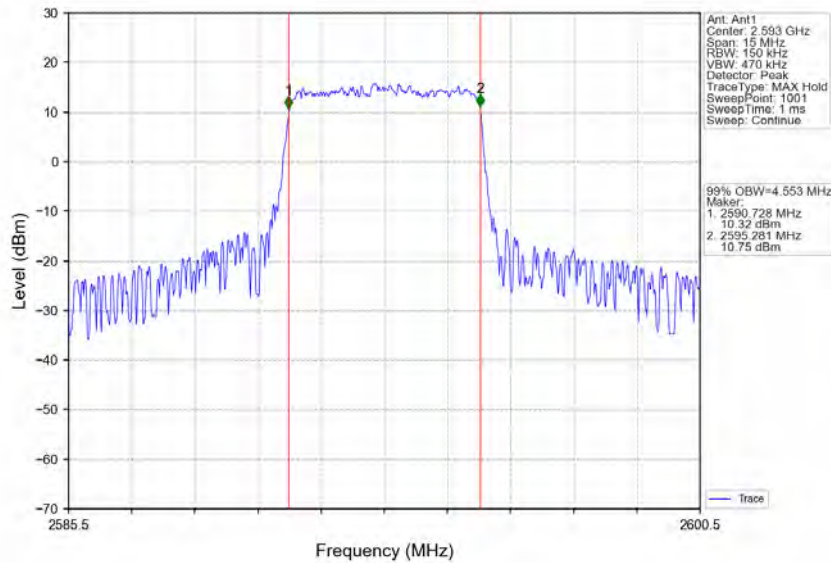
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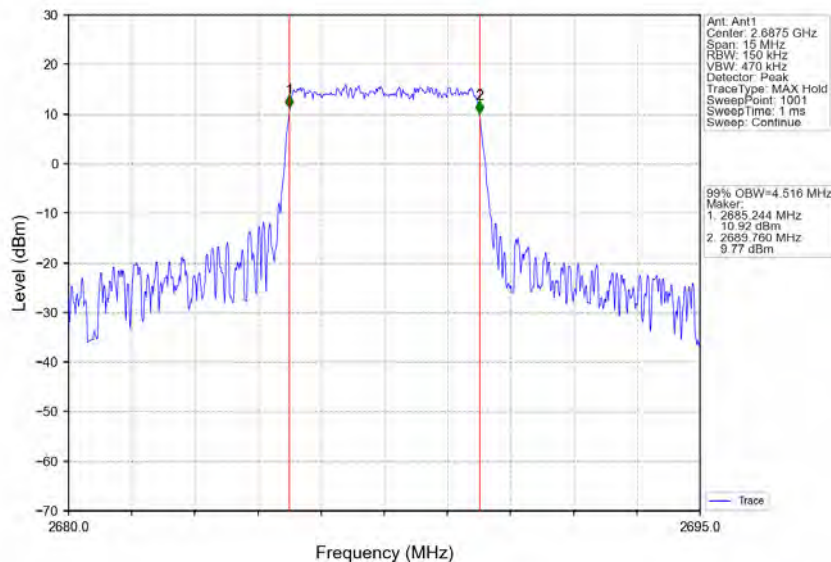
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Band41\_5MHz\_16QAM\_MCH\_2593MHz\_RB\_25\_0\_NTNV



Band41\_5MHz\_16QAM\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



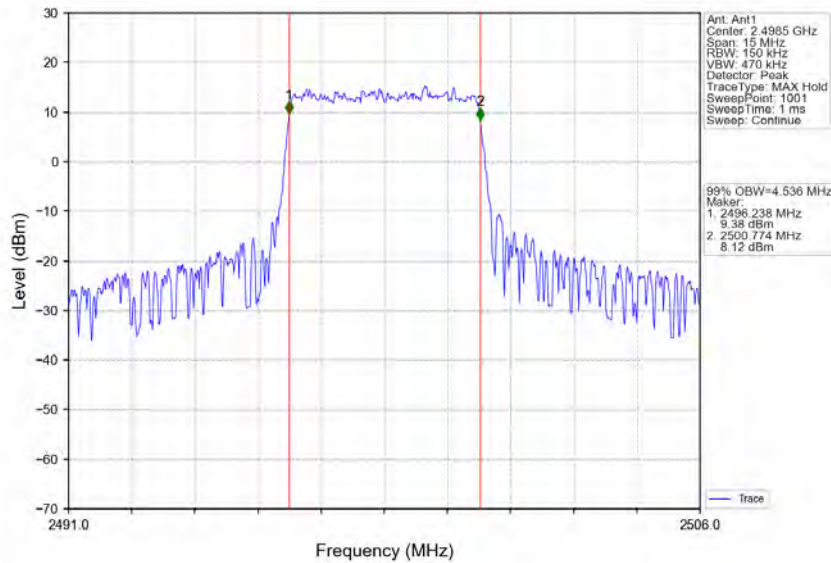
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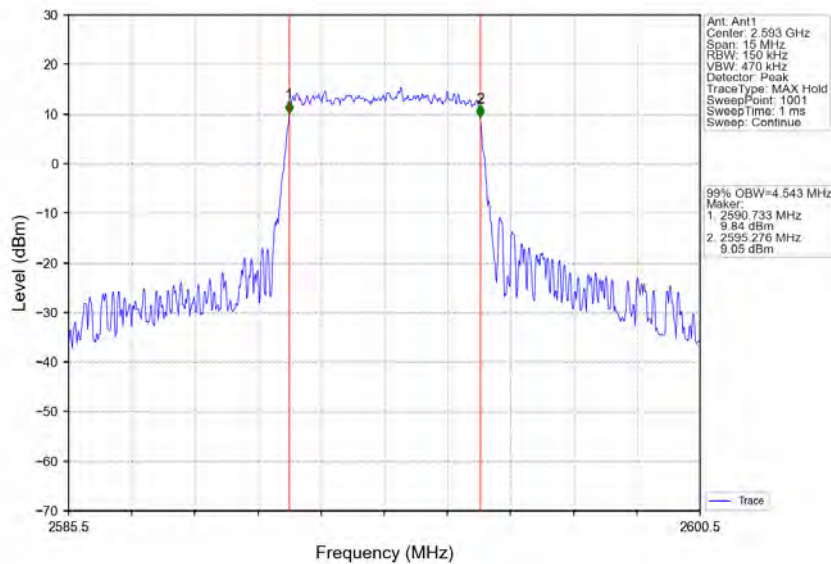
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Band41\_5MHz\_64QAM\_MCH\_2593MHz\_RB\_25\_0\_NTNV



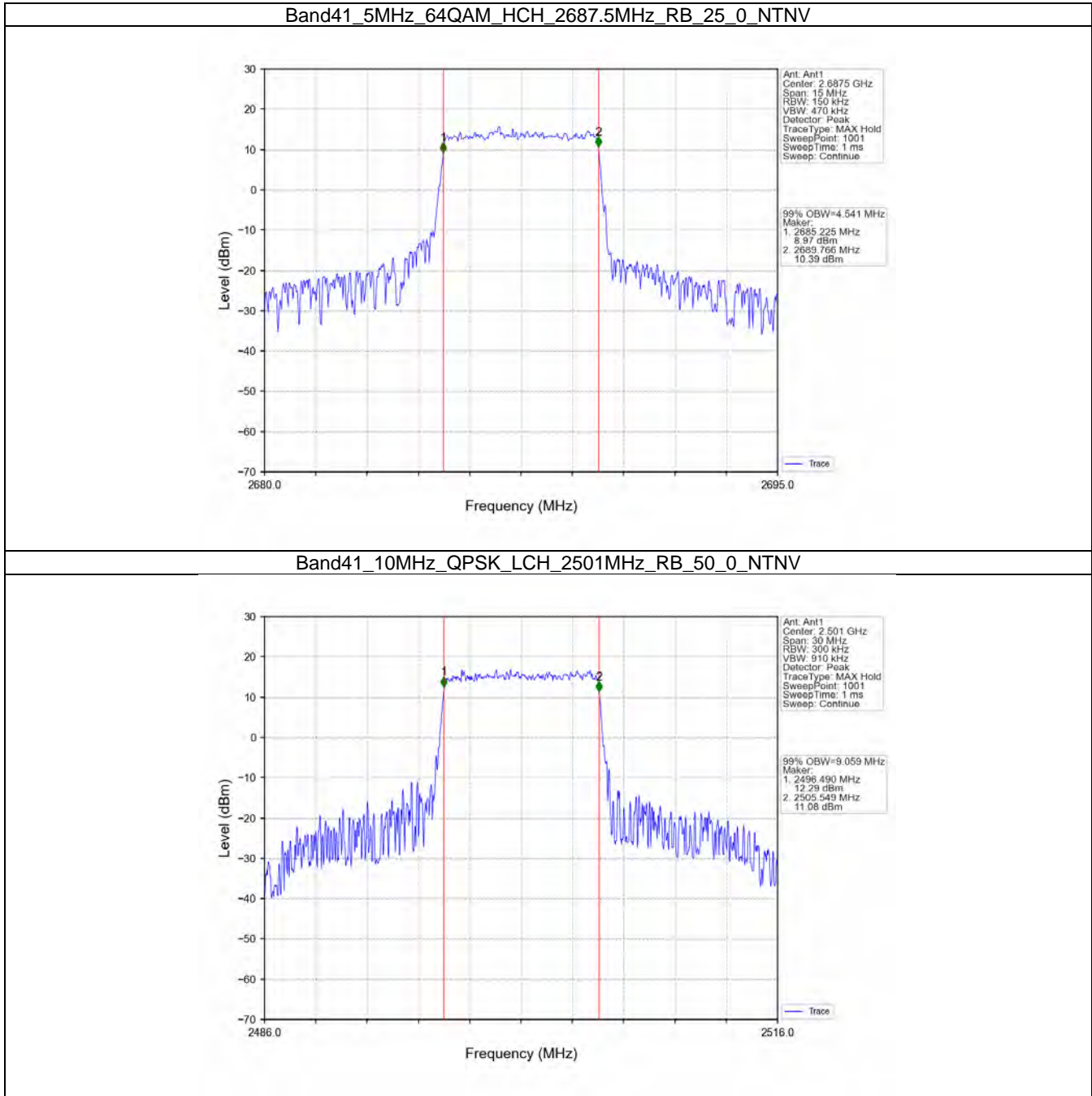
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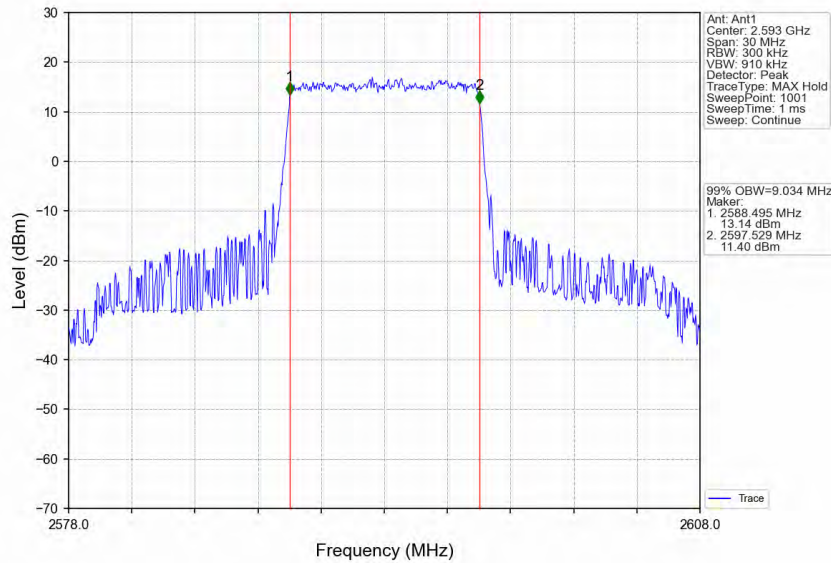
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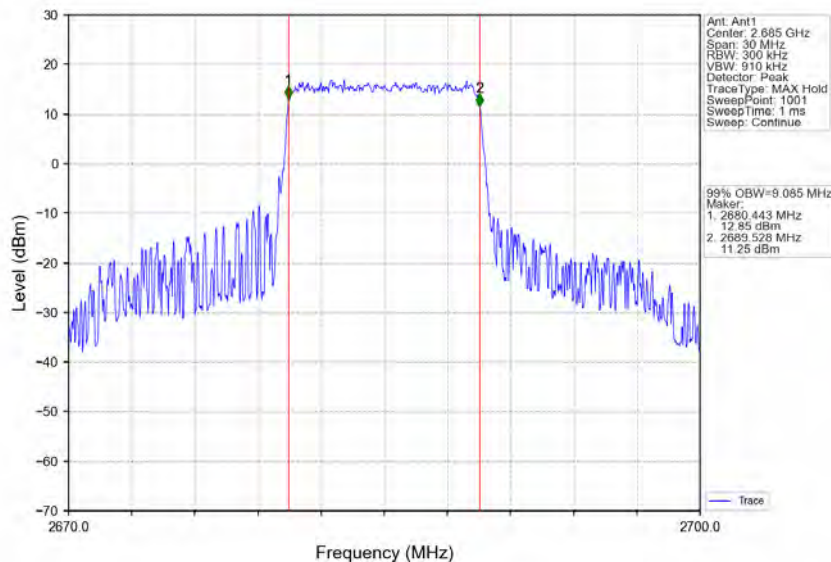
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Band41\_10MHz\_QPSK\_HCH\_2685MHz\_RB\_50\_0\_NTNV

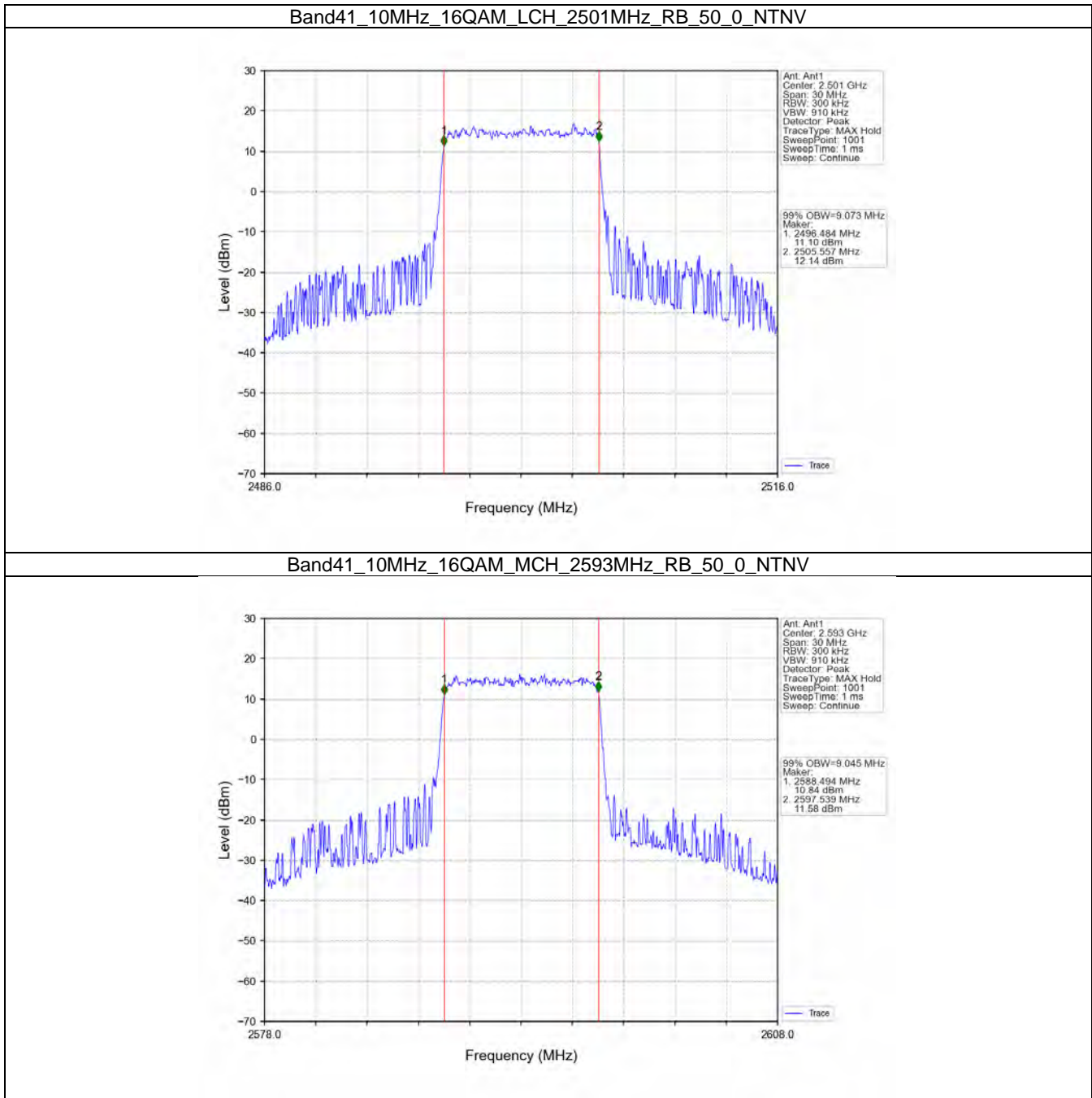


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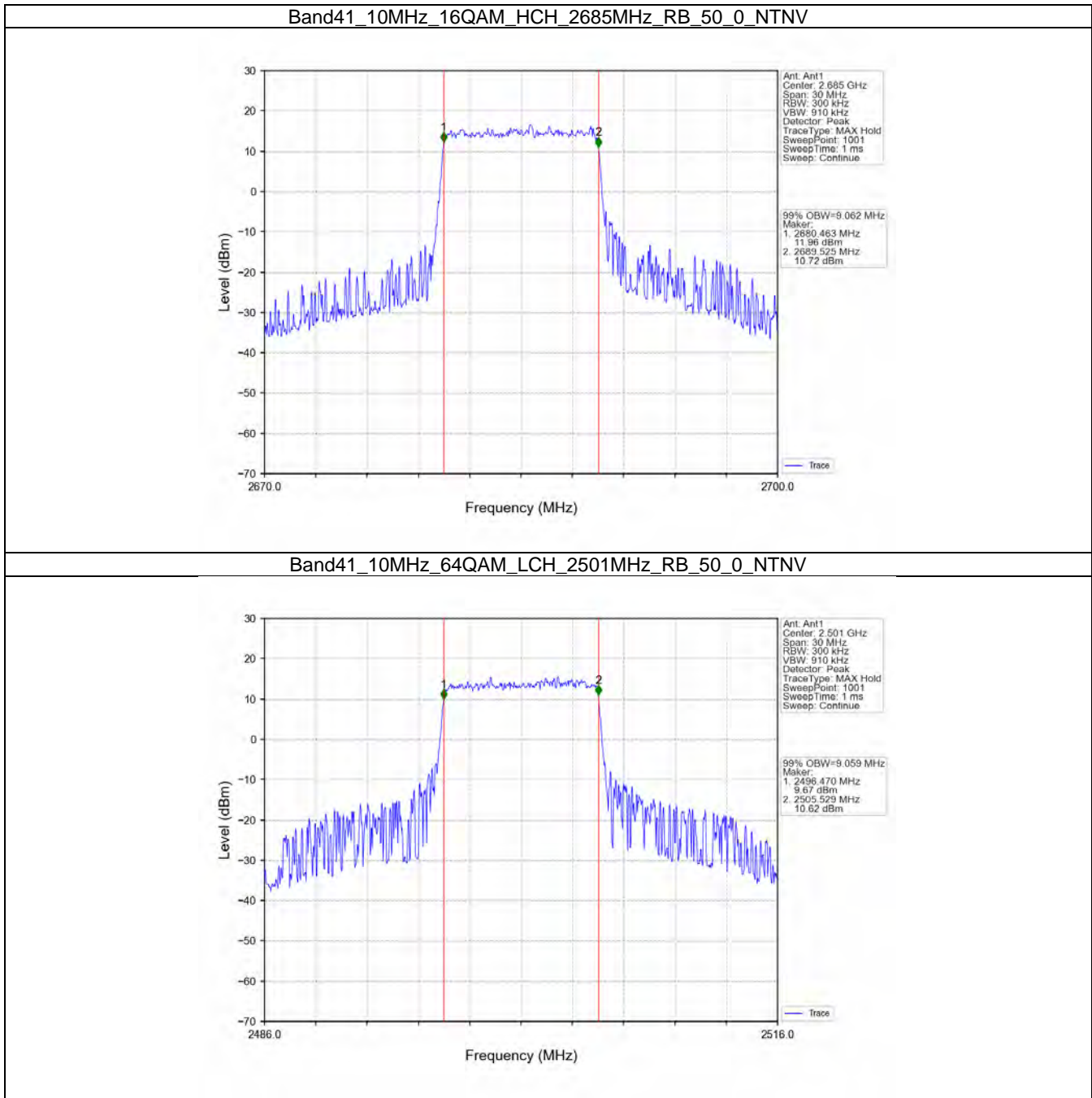


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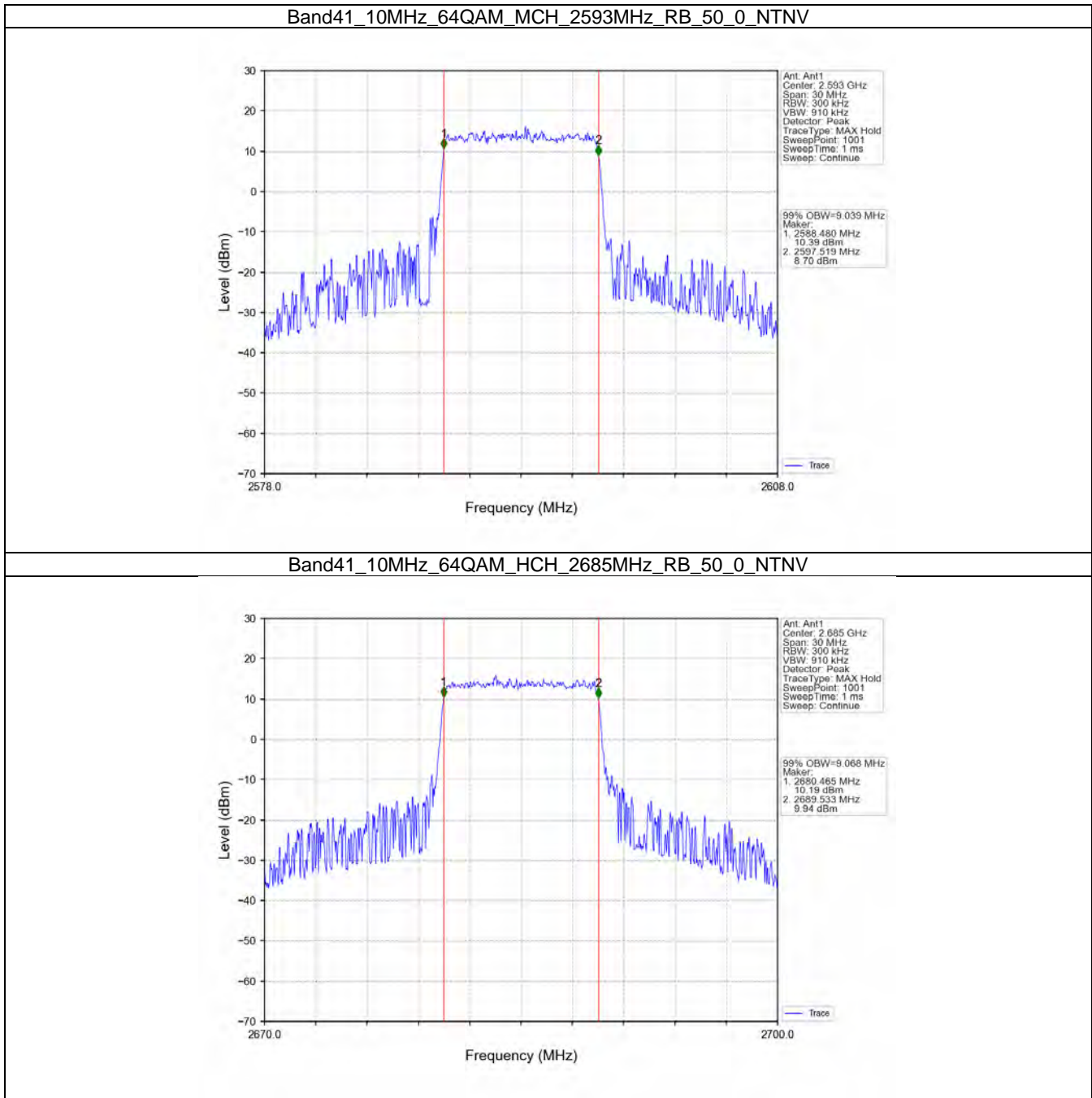
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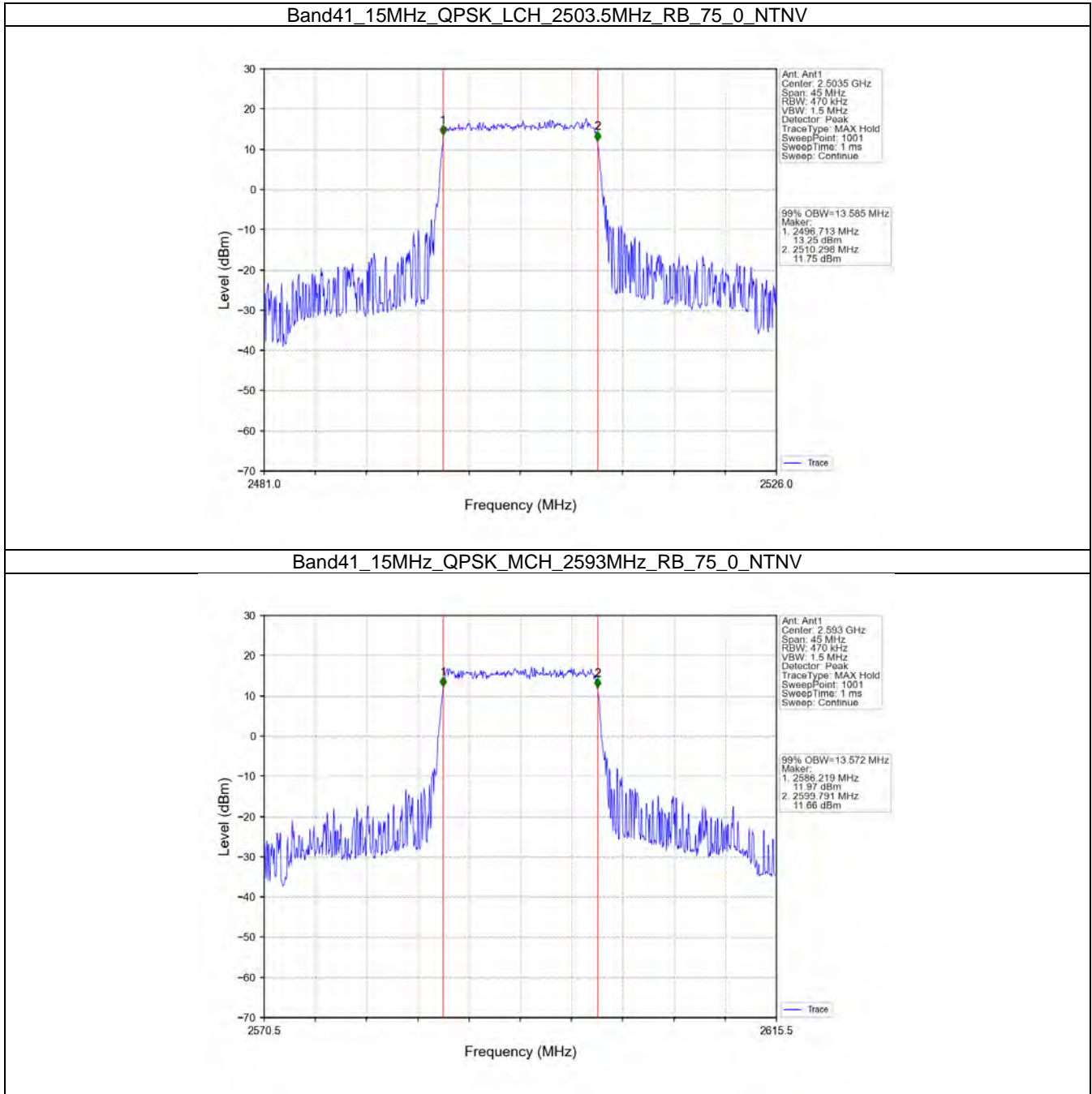
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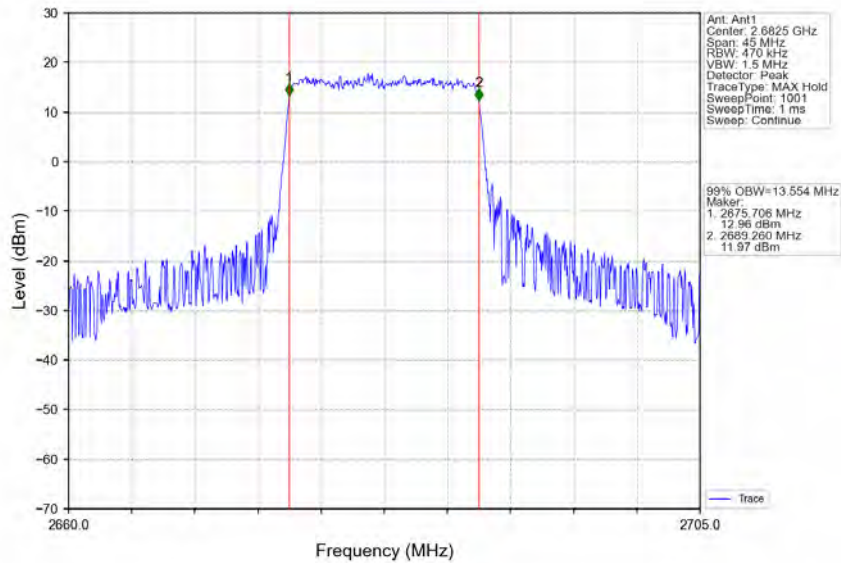
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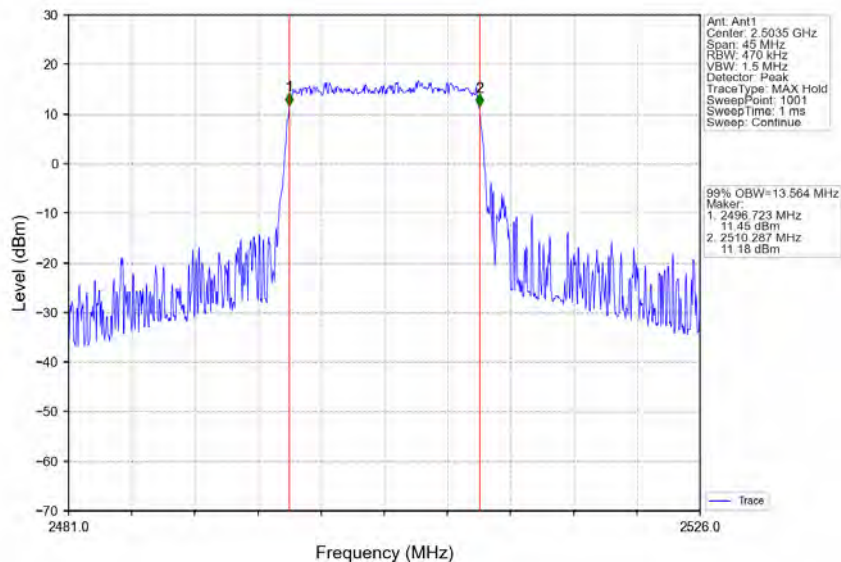
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Band41\_15MHz\_16QAM\_LCH\_2503.5MHz\_RB\_75\_0\_NTNV

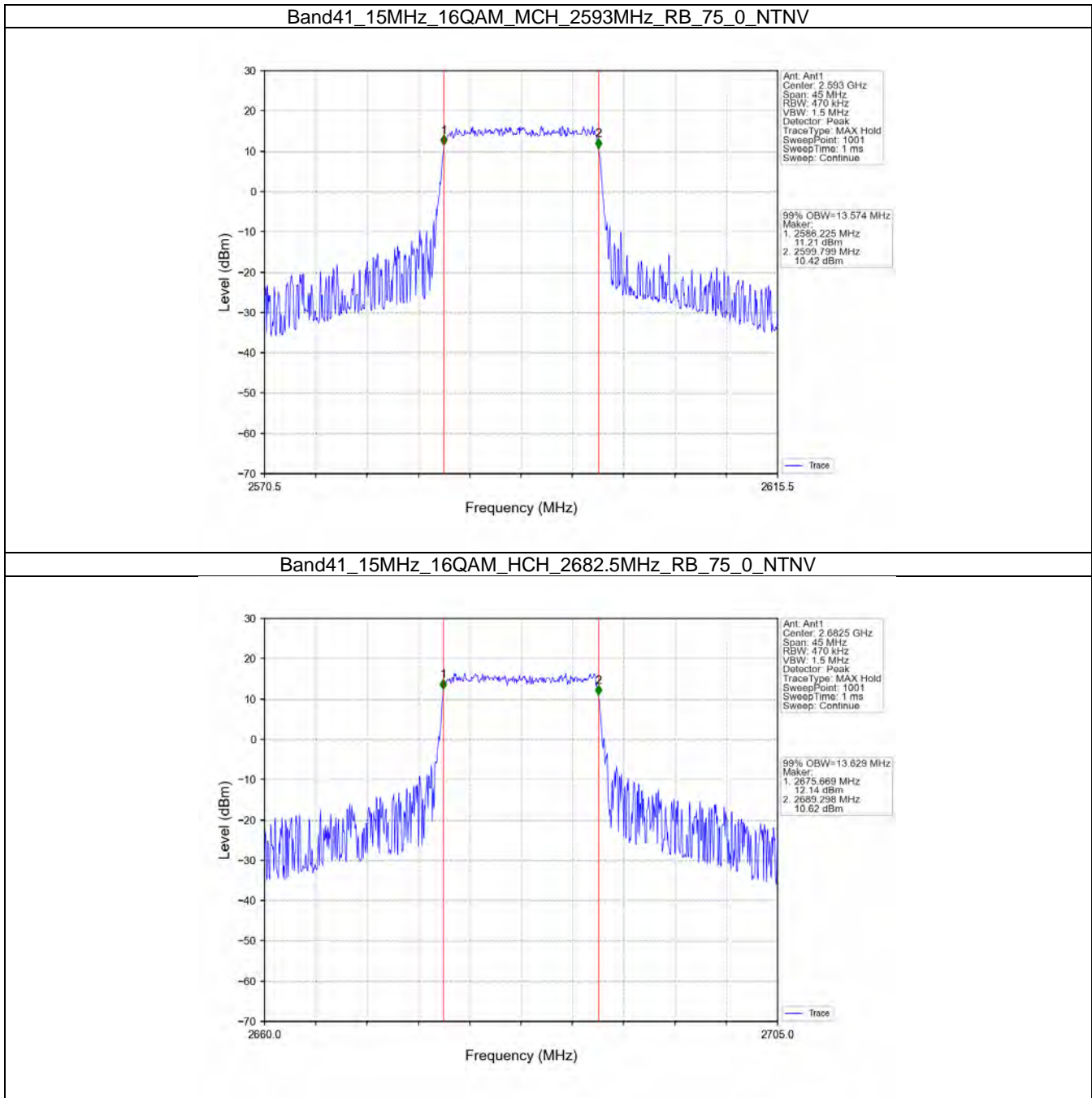


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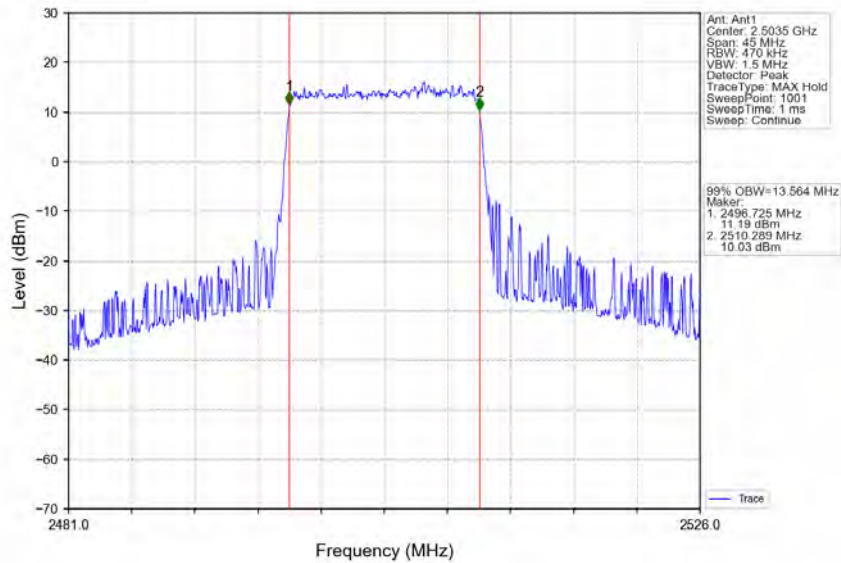
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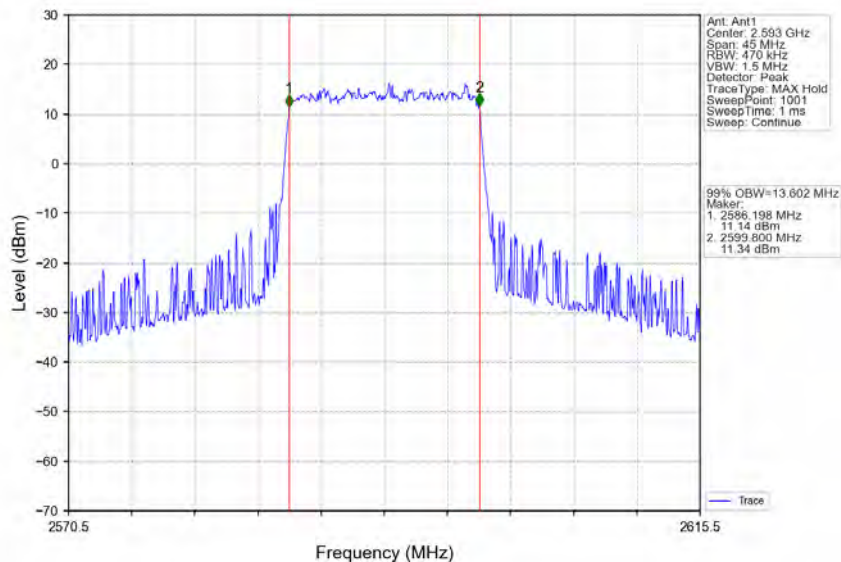




Band41\_15MHz\_64QAM\_LCH\_2503.5MHz\_RB\_75\_0\_NTNV



Band41\_15MHz\_64QAM\_MCH\_2593MHz\_RB\_75\_0\_NTNV



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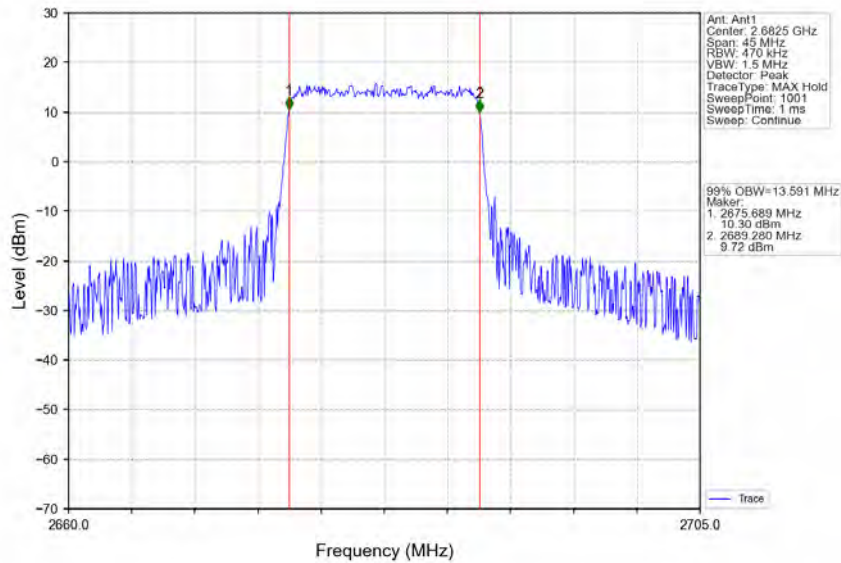
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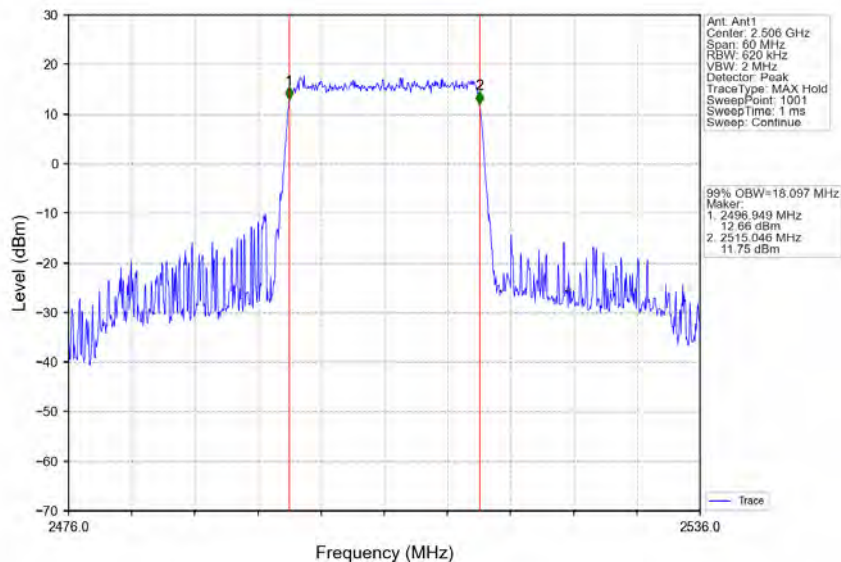




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Band41\_20MHz\_QPSK\_LCH\_2506MHz\_RB\_100\_0\_NTNV

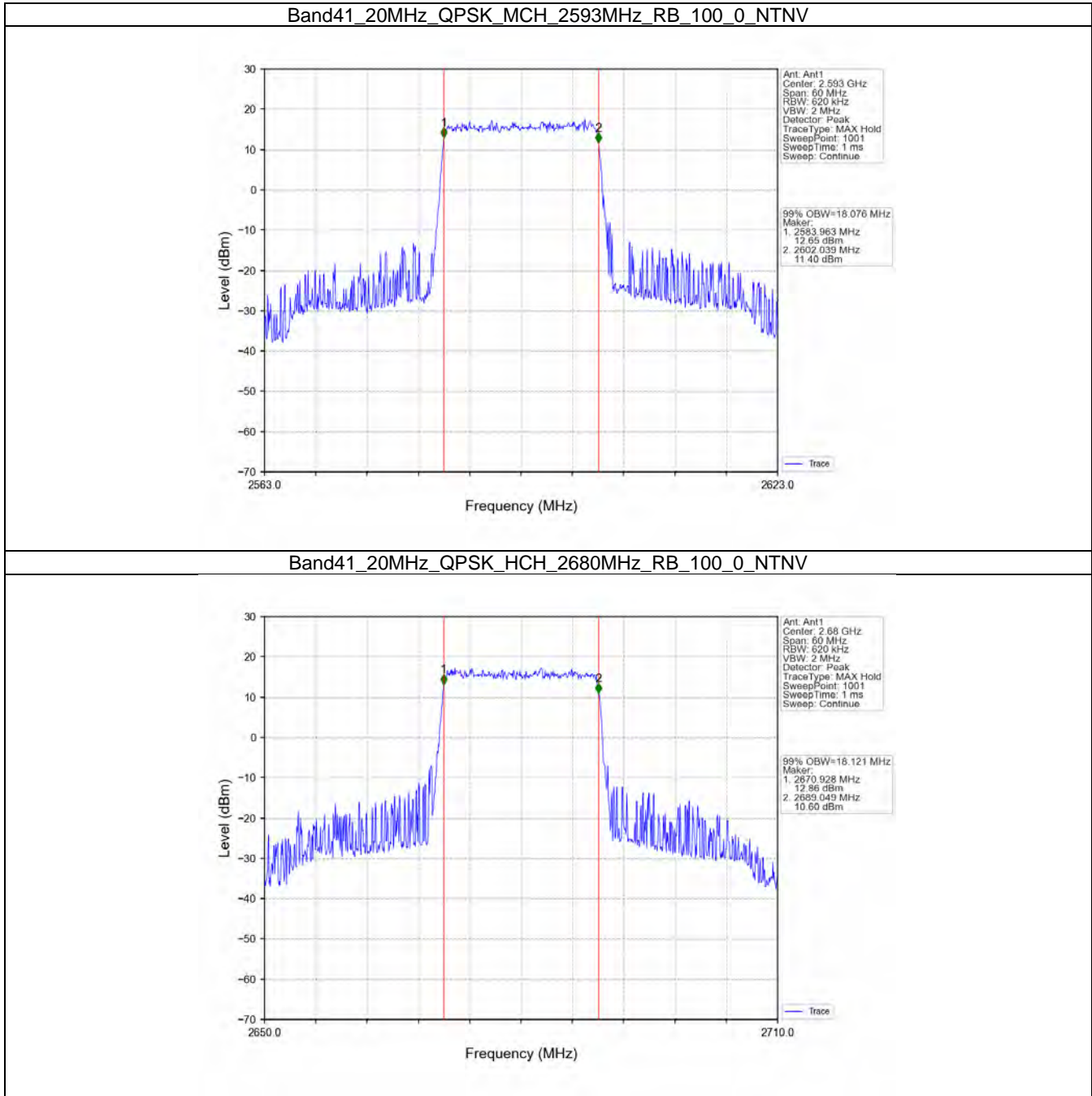


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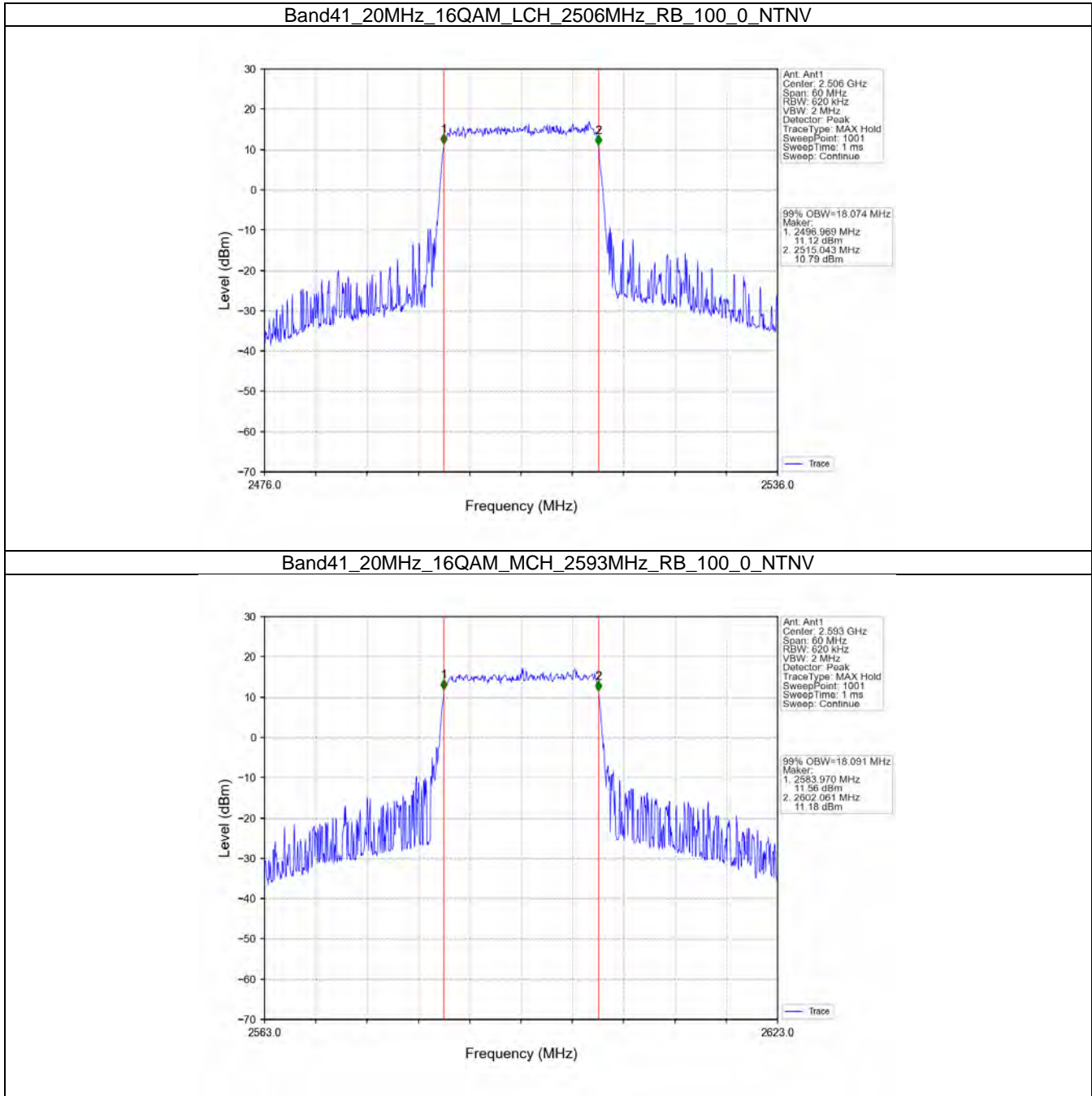


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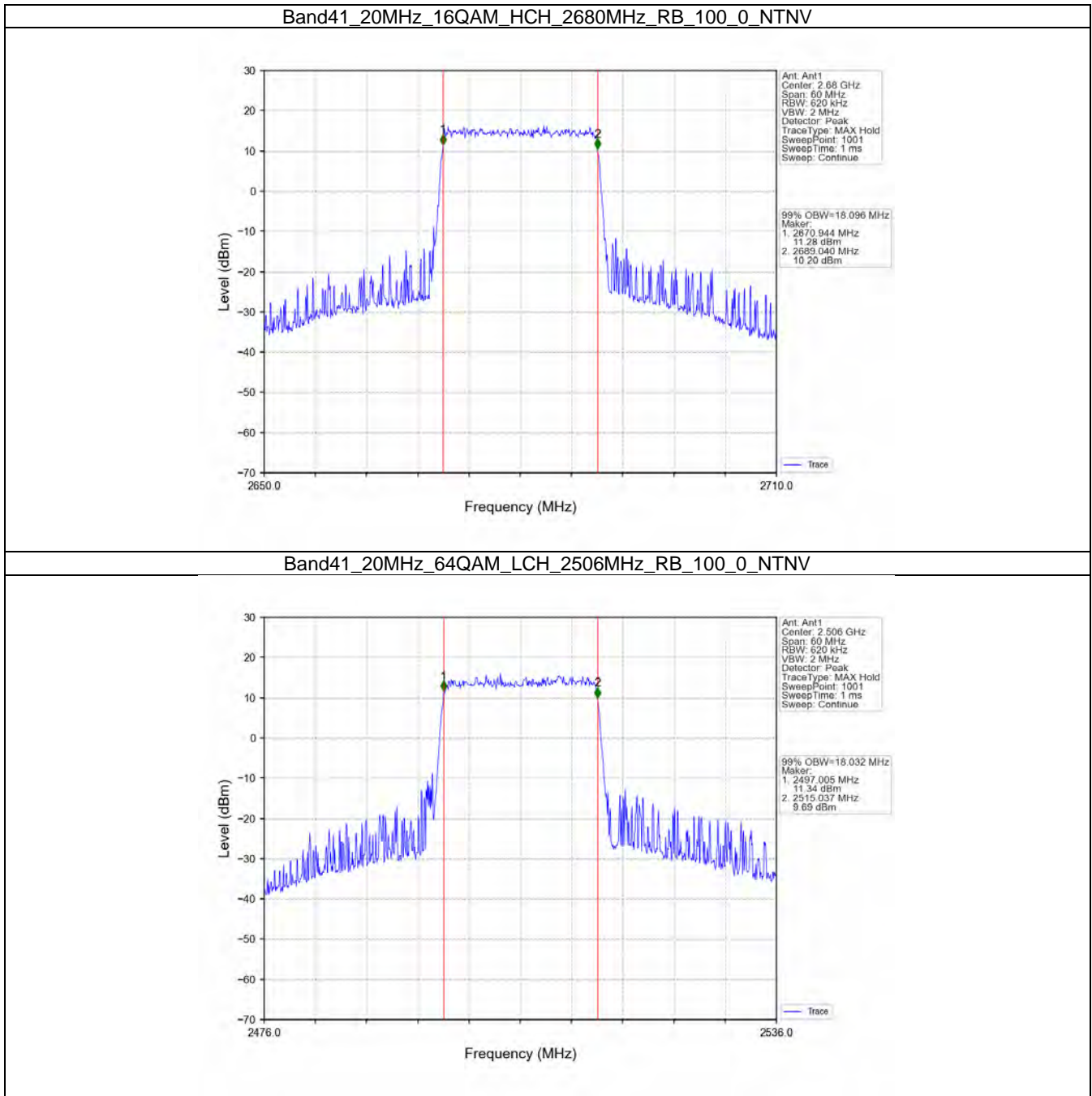
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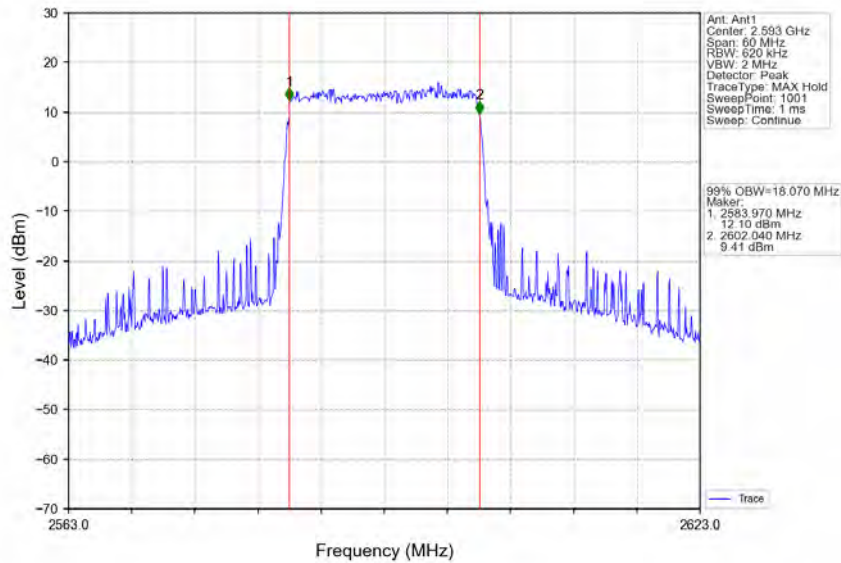
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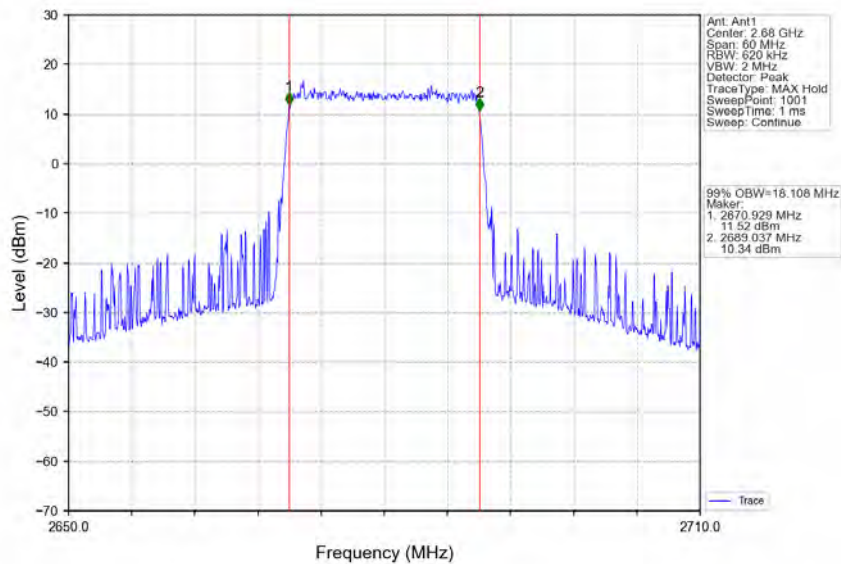
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Band41\_20MHz\_64QAM\_MCH\_2593MHz\_RB\_100\_0\_NTNV



Band41\_20MHz\_64QAM\_HCH\_2680MHz\_RB\_100\_0\_NTNV



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4.2 Band41\_XDB

4.2.1 Test Result

Band: 41 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2498.5	25	0	5.023	Pass
		2593	25	0	5.313	Pass
		2687.5	25	0	5.559	Pass
	16QAM	2498.5	25	0	5.203	Pass
		2593	25	0	5.171	Pass
		2687.5	25	0	5.037	Pass
	64QAM	2498.5	25	0	5.255	Pass
		2593	25	0	5.027	Pass
		2687.5	25	0	5.020	Pass
10	QPSK	2501	50	0	10.183	Pass
		2593	50	0	10.390	Pass
		2685	50	0	10.923	Pass
	16QAM	2501	50	0	10.440	Pass
		2593	50	0	10.075	Pass
		2685	50	0	10.322	Pass
	64QAM	2501	50	0	11.024	Pass
		2593	50	0	10.236	Pass
		2685	50	0	10.594	Pass
15	QPSK	2503.5	75	0	15.545	Pass
		2593	75	0	16.121	Pass
		2682.5	75	0	15.784	Pass
	16QAM	2503.5	75	0	16.143	Pass
		2593	75	0	15.511	Pass
		2682.5	75	0	17.751	Pass
	64QAM	2503.5	75	0	15.596	Pass
		2593	75	0	15.602	Pass
		2682.5	75	0	15.589	Pass
20	QPSK	2506	100	0	19.780	Pass
		2593	100	0	20.254	Pass
		2680	100	0	20.917	Pass
	16QAM	2506	100	0	19.723	Pass
		2593	100	0	21.230	Pass
		2680	100	0	19.974	Pass
	64QAM	2506	100	0	20.144	Pass
		2593	100	0	19.609	Pass
		2680	100	0	20.285	Pass



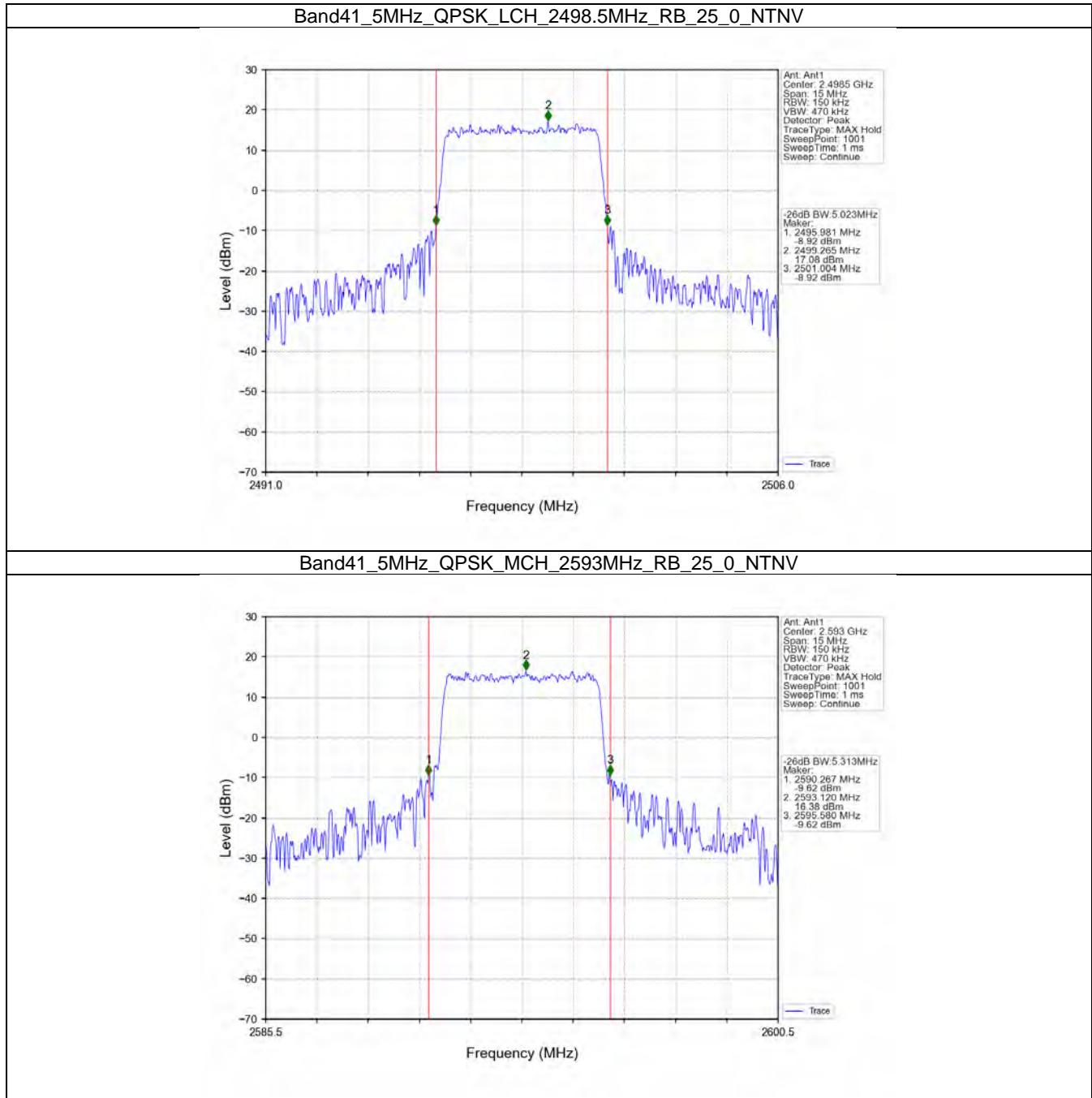
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4.2.2 Test Graph



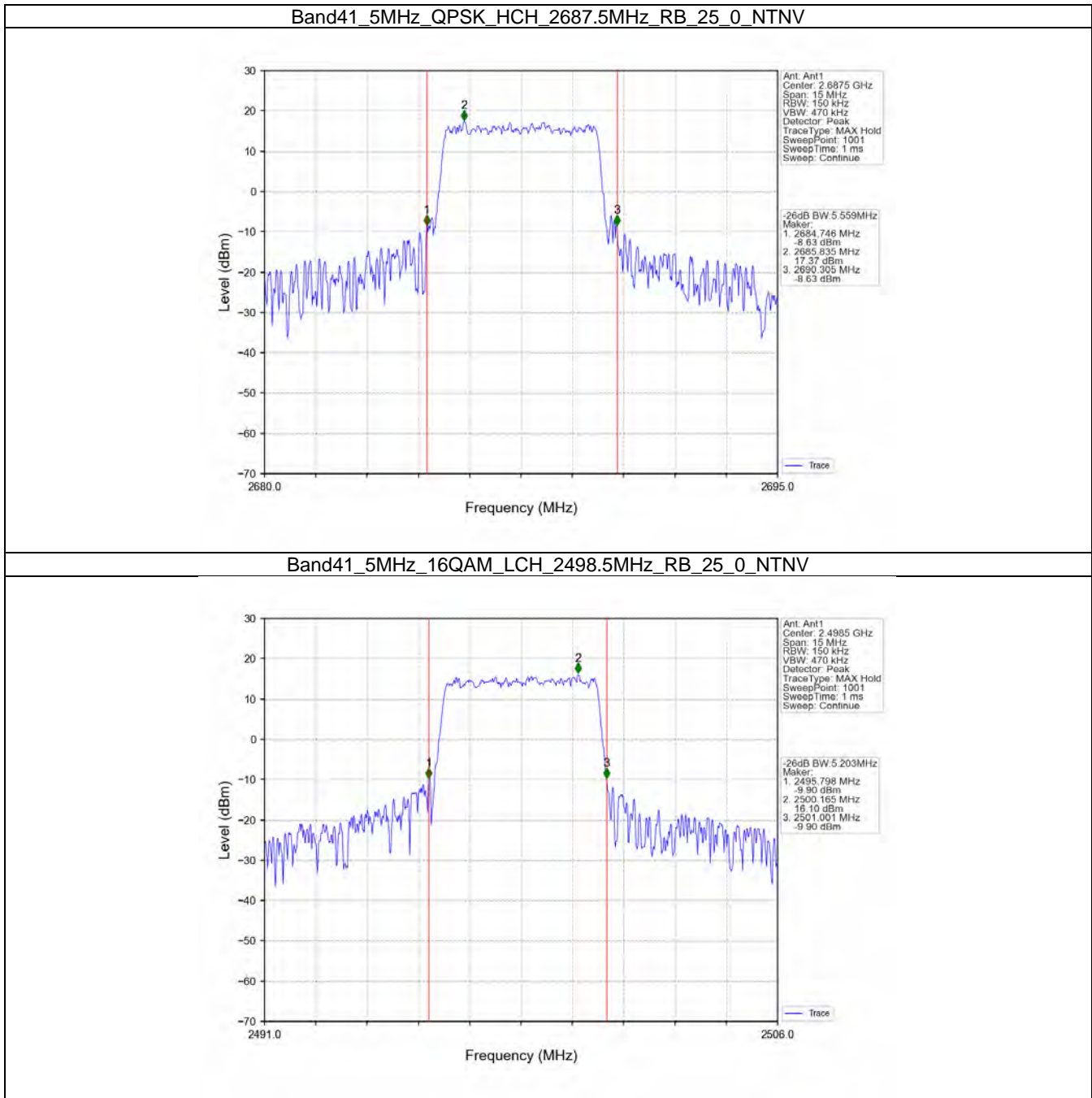
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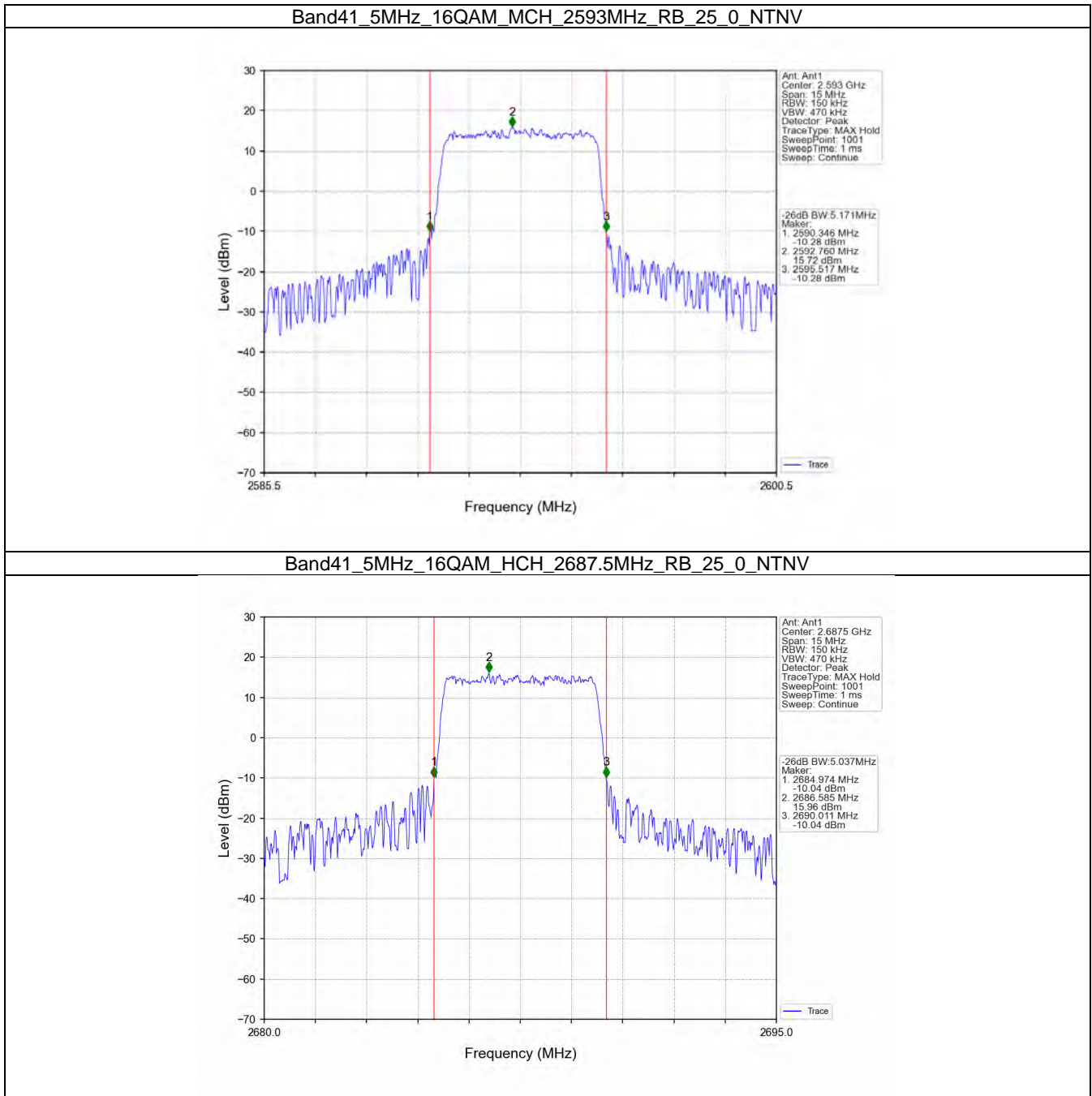


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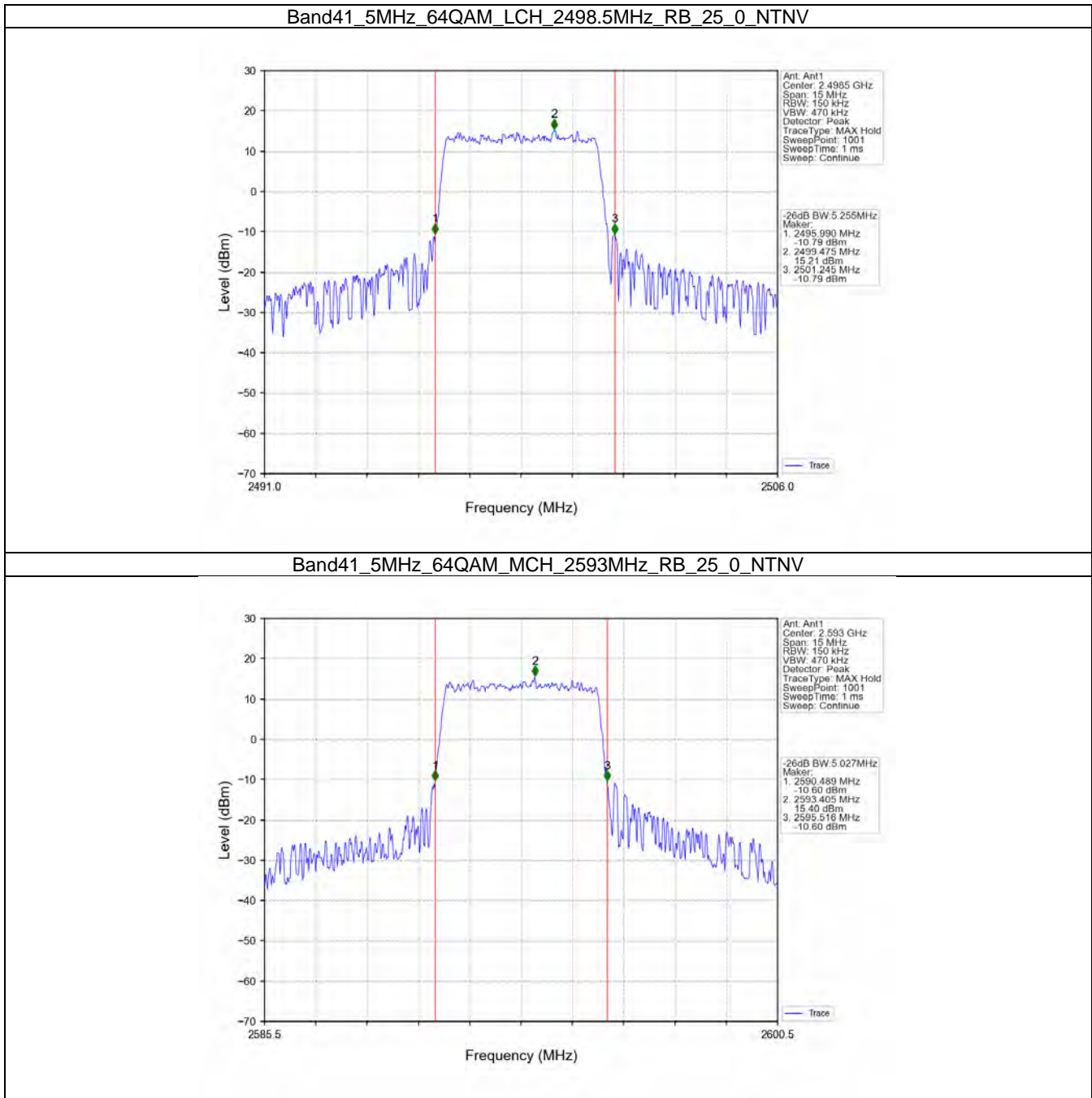


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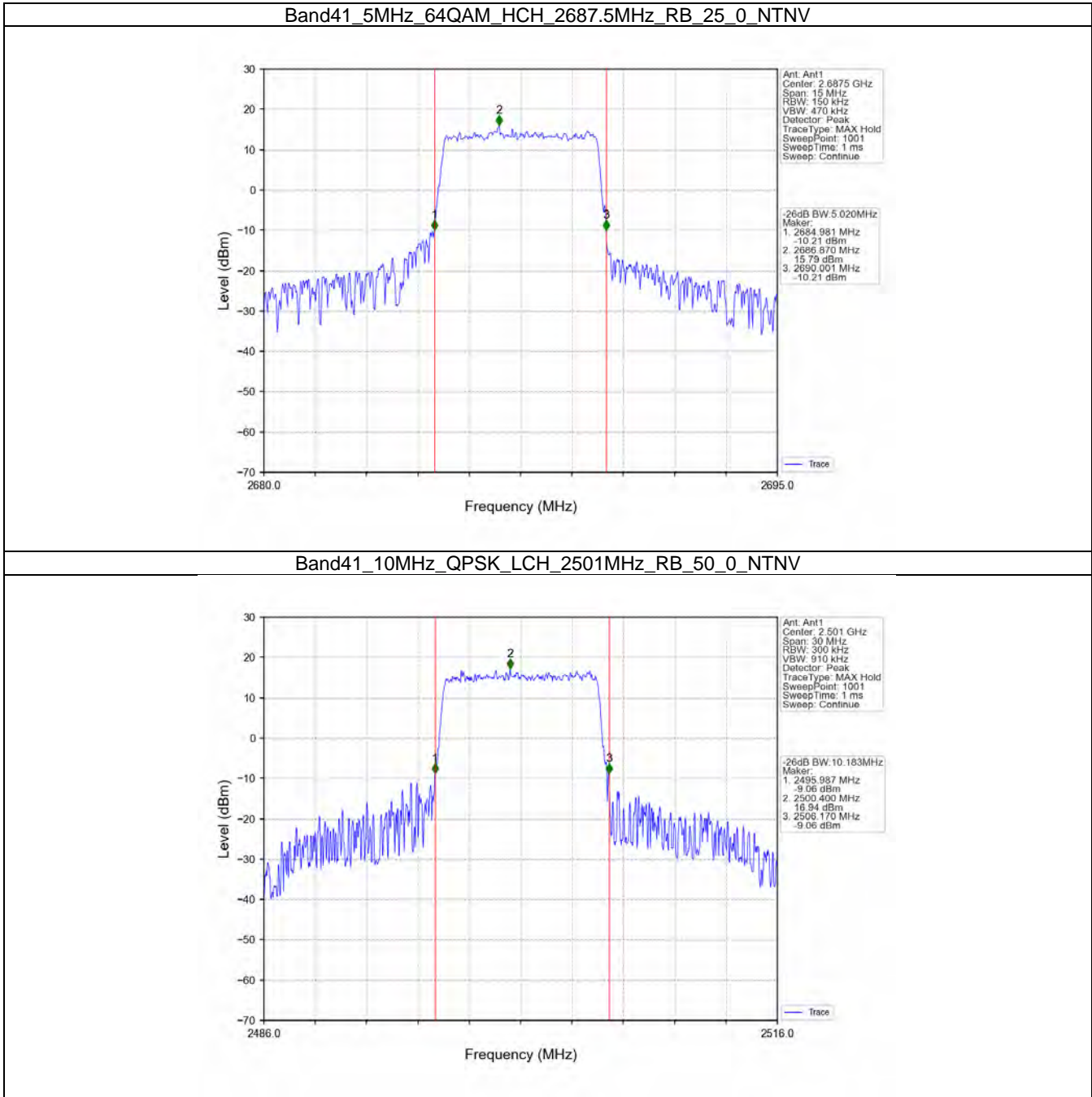
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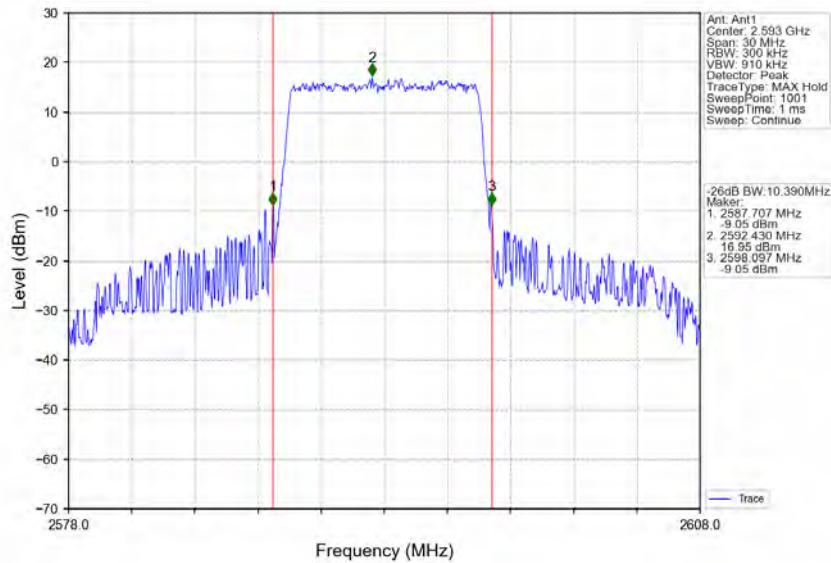
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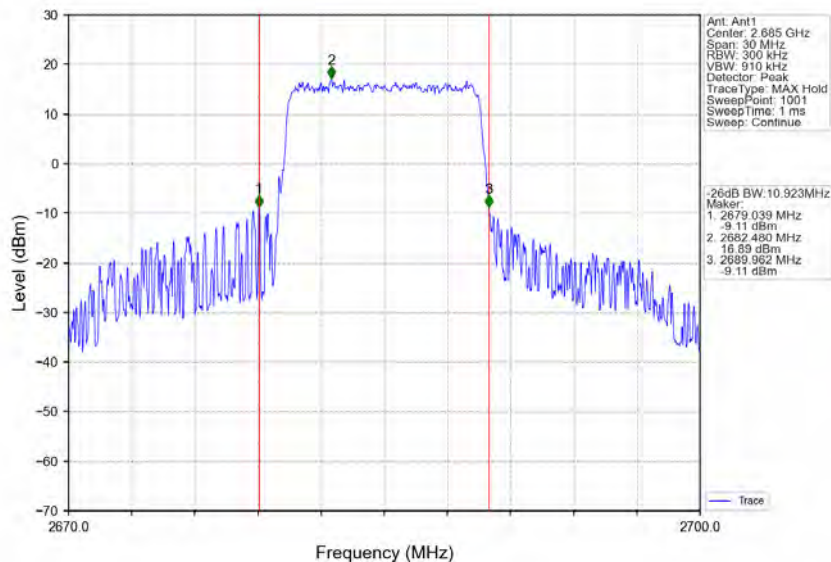
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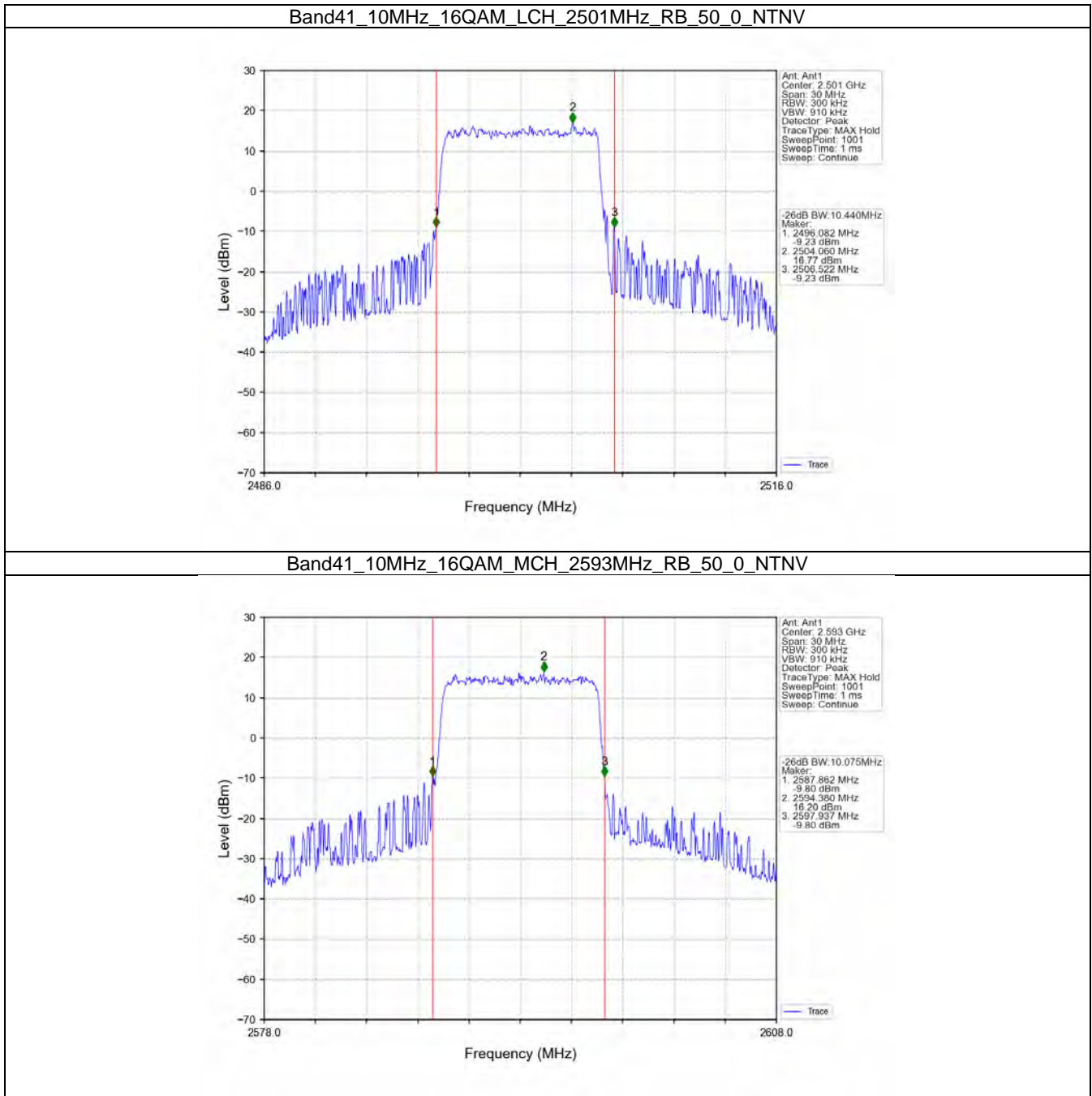


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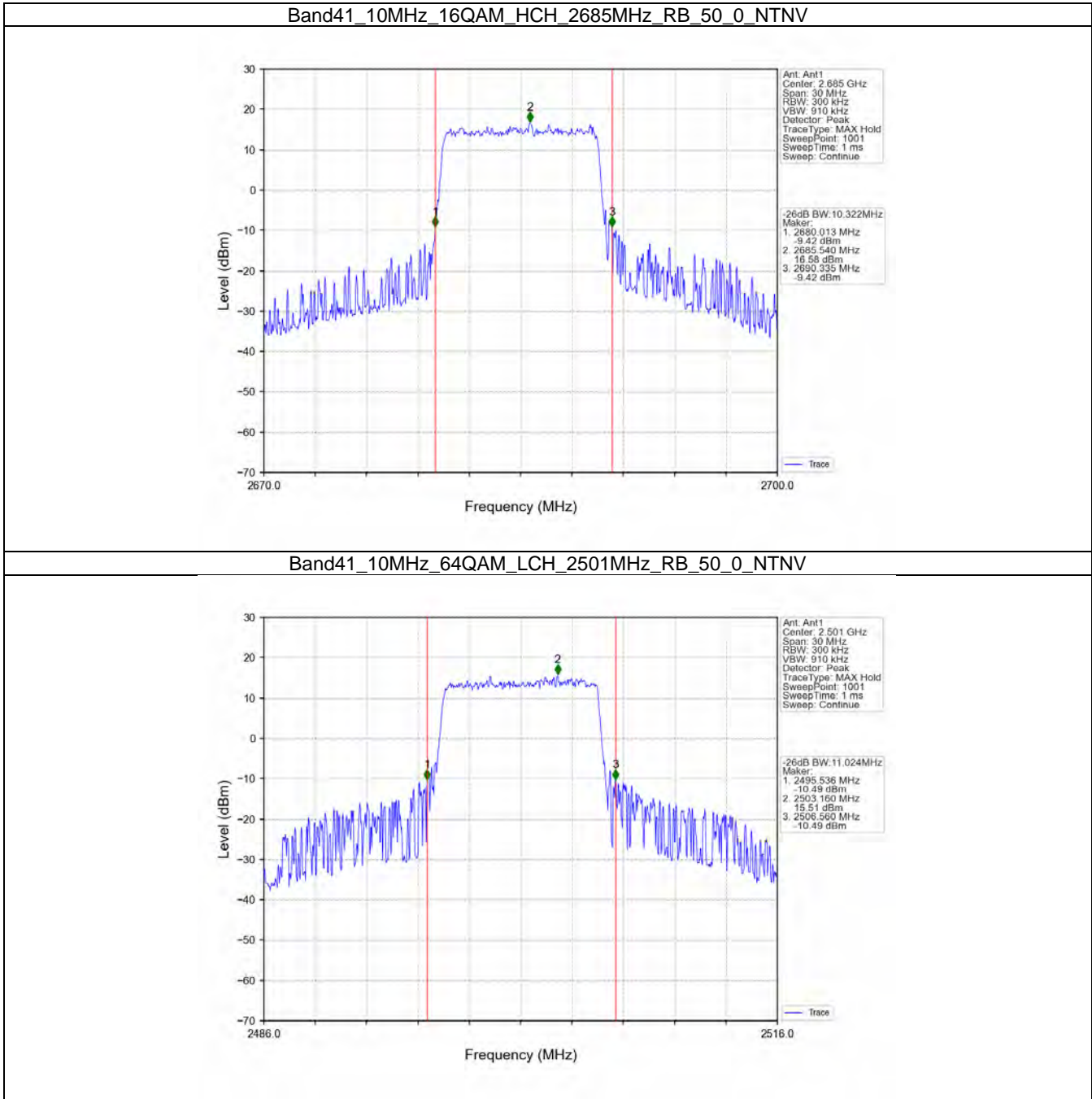
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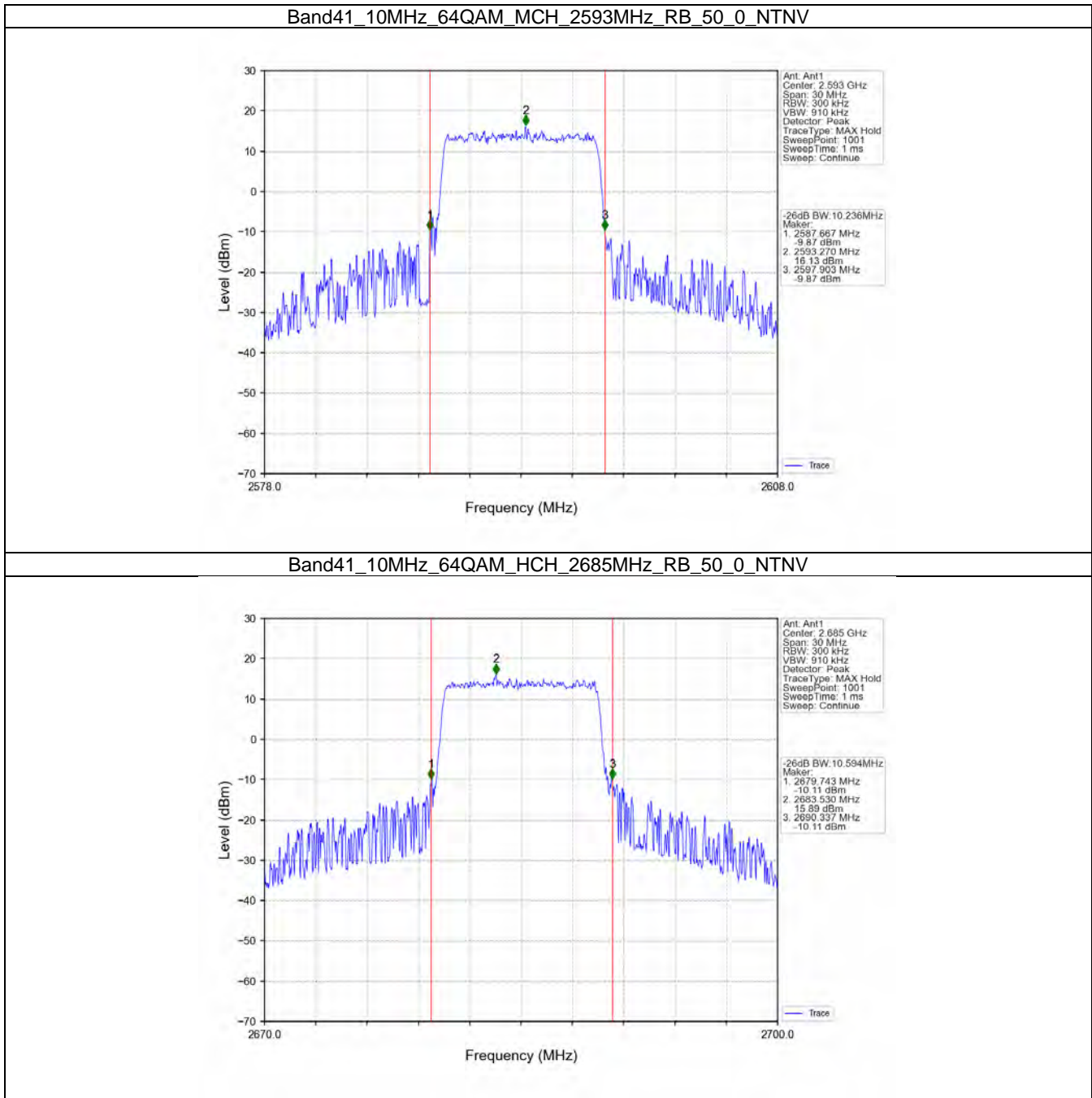


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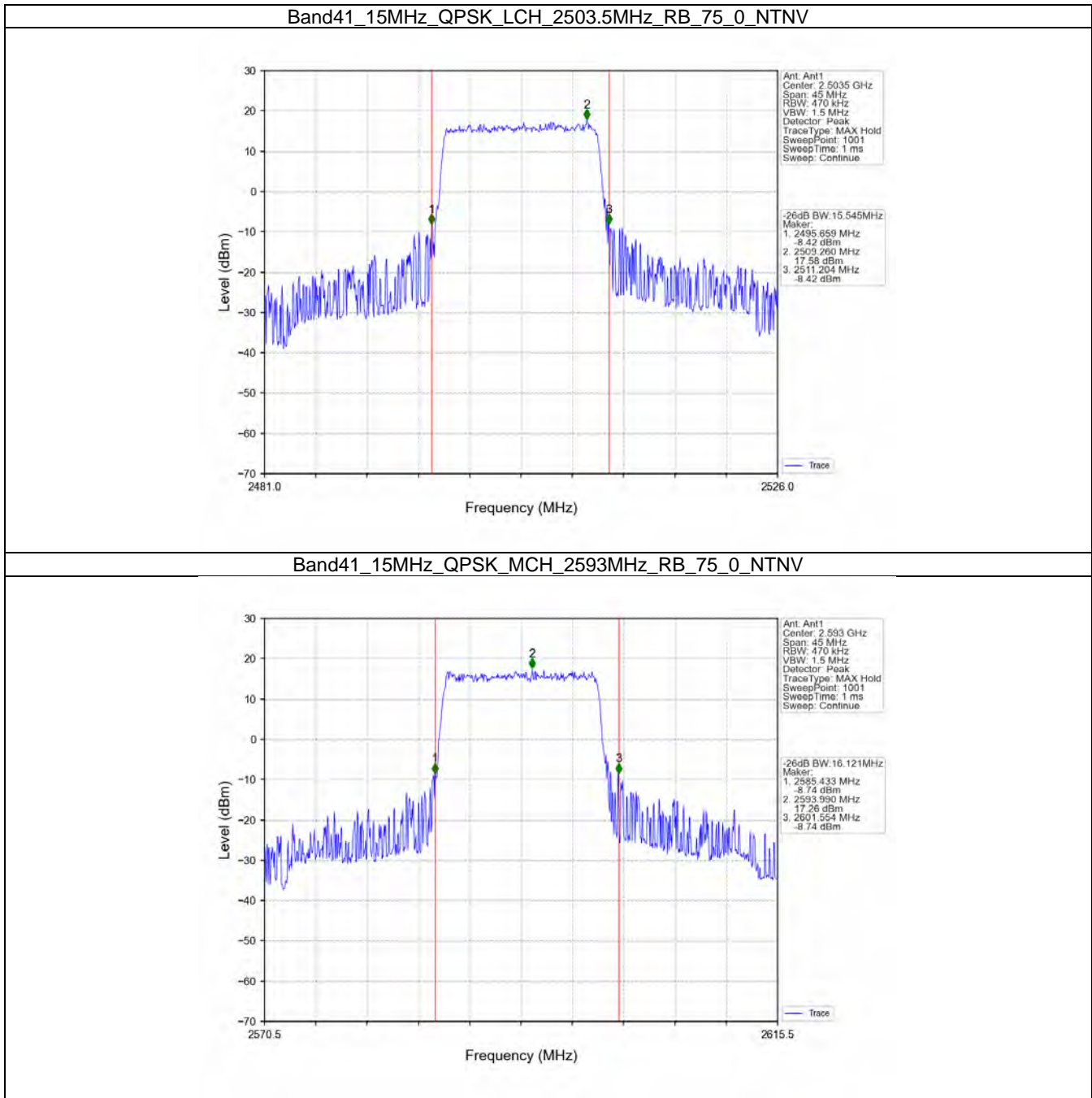


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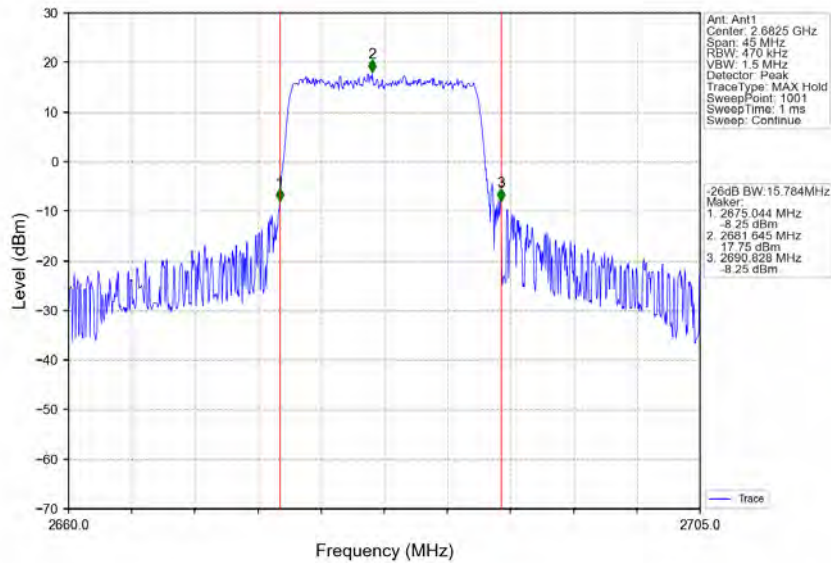
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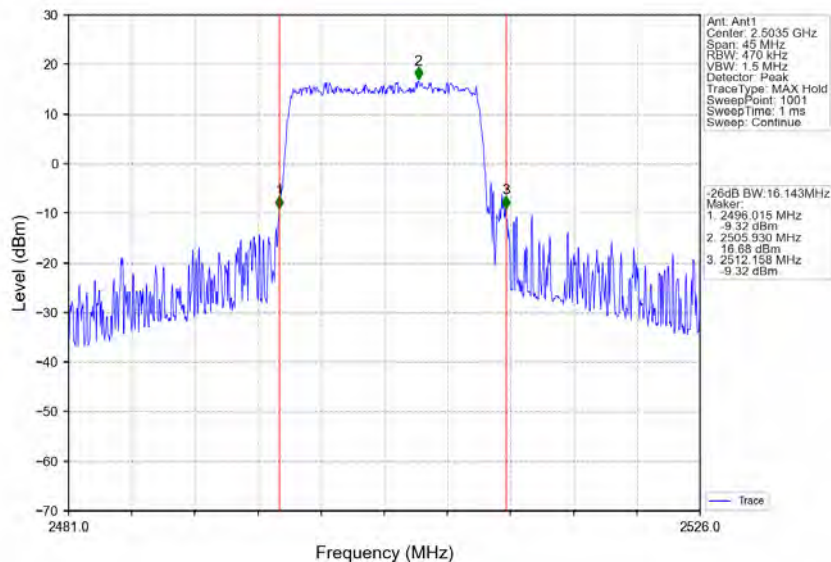
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Band41\_15MHz\_QPSK\_HCH\_2682.5MHz\_RB\_75\_0\_NTNV



Band41\_15MHz\_16QAM\_LCH\_2503.5MHz\_RB\_75\_0\_NTNV

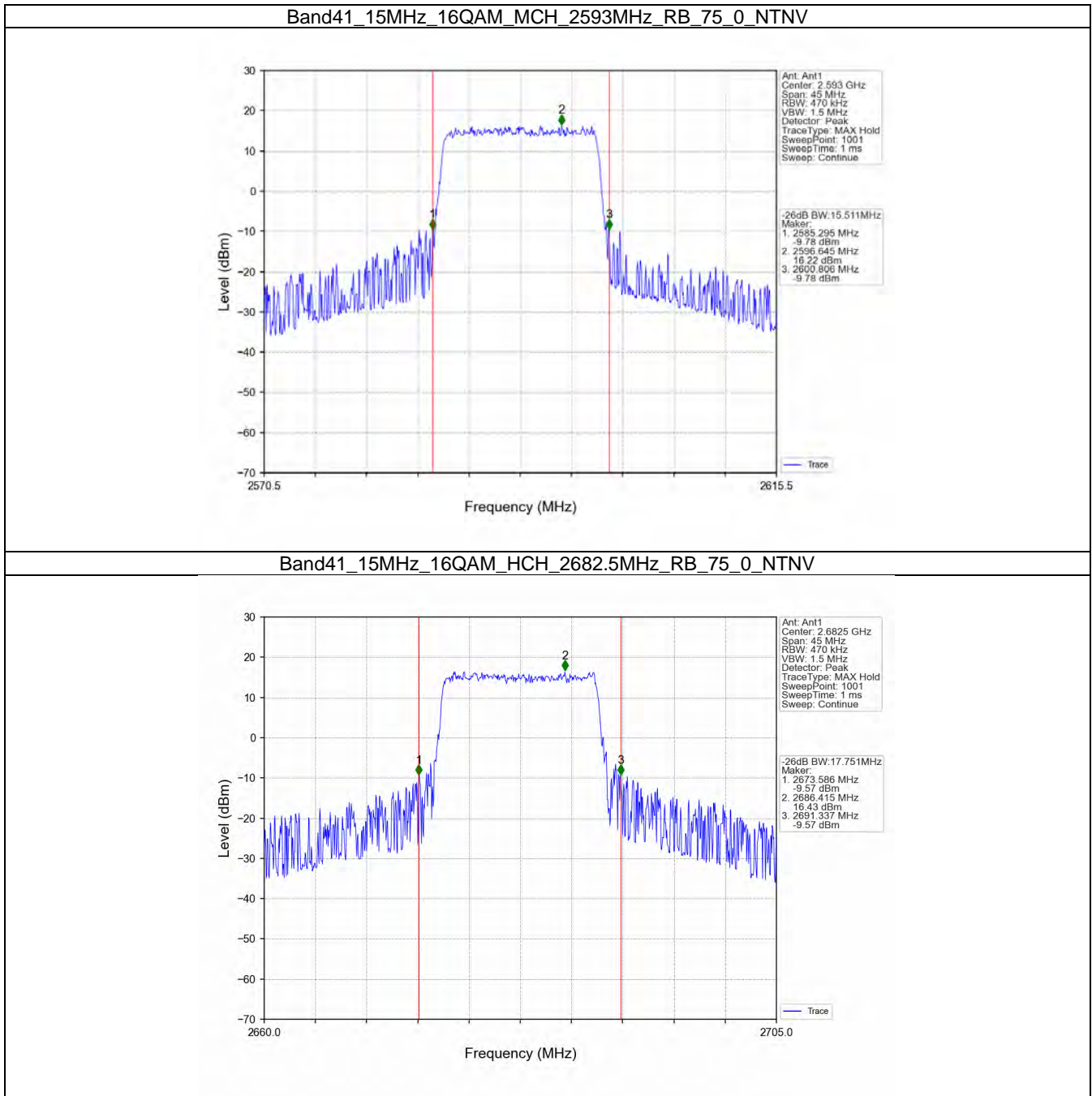


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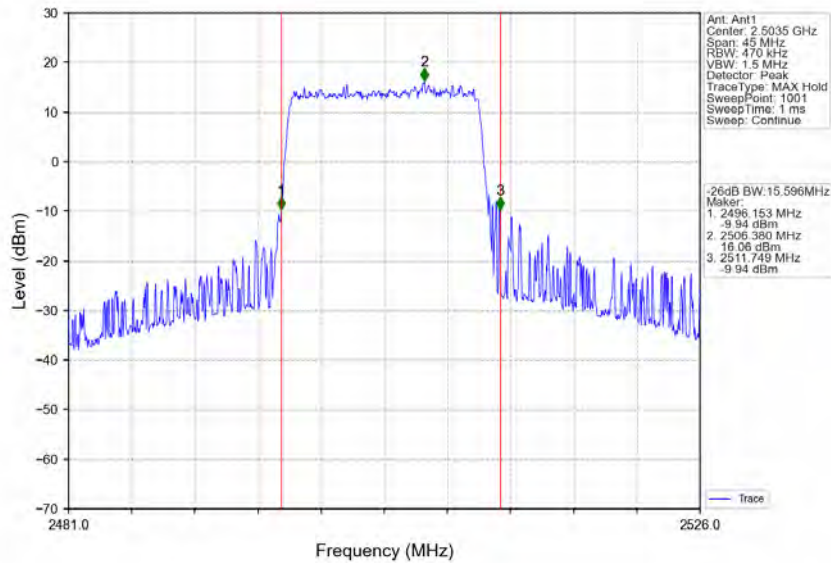
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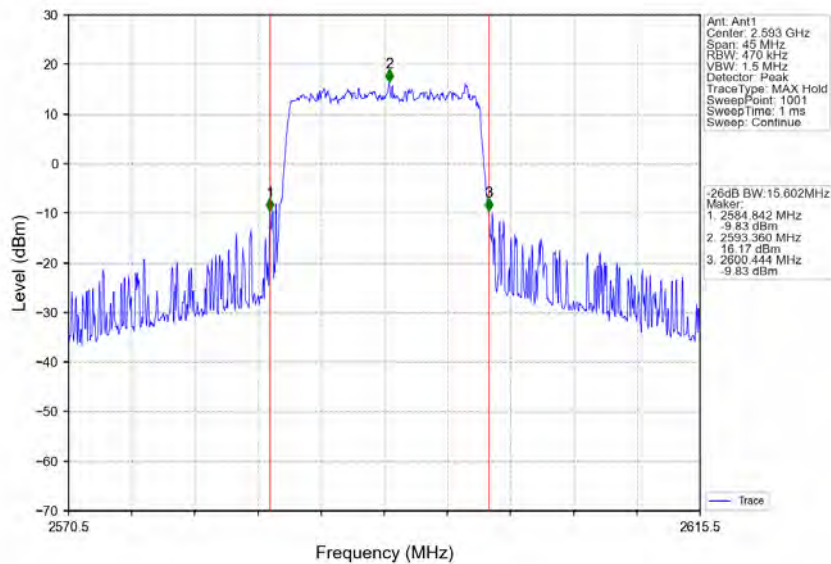
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Band41\_15MHz\_64QAM\_MCH\_2593MHz\_RB\_75\_0\_NTNV



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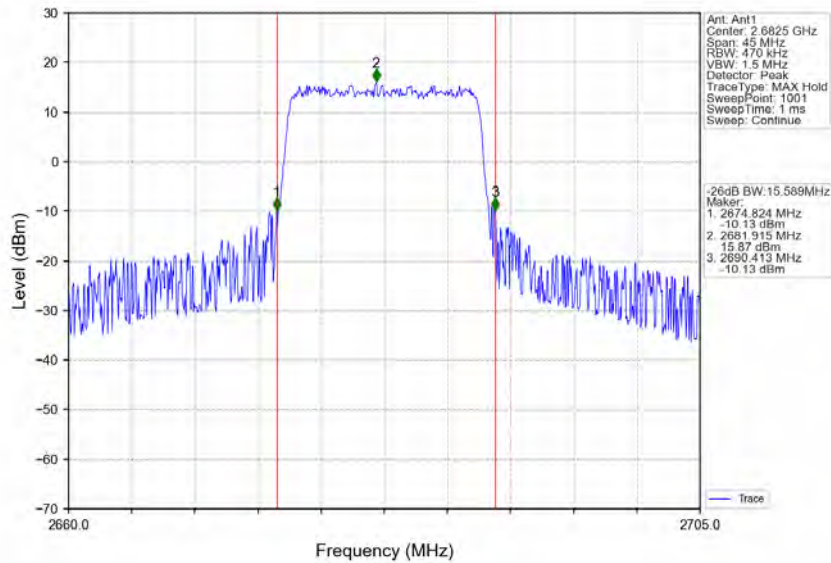
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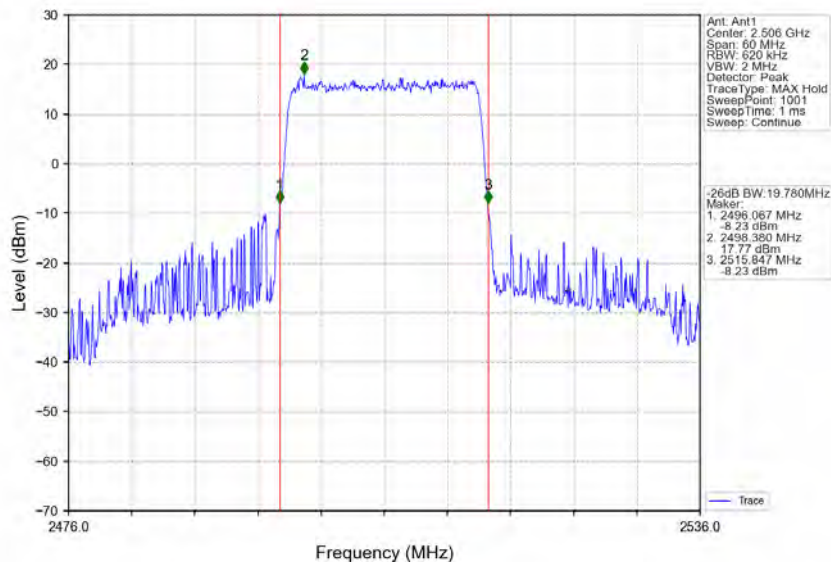
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Band41\_20MHz\_QPSK\_LCH\_2506MHz\_RB\_100\_0\_NTNV

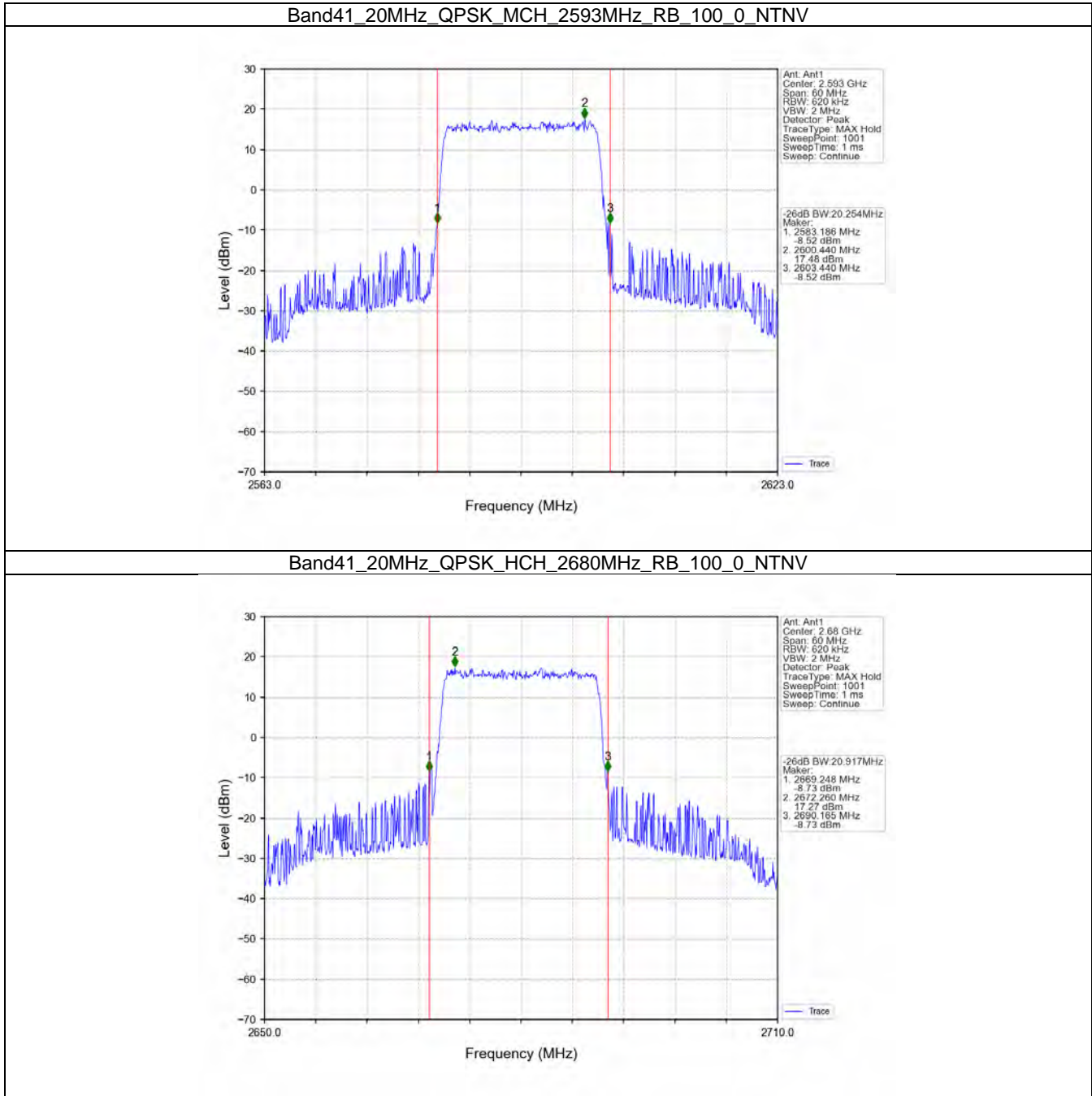


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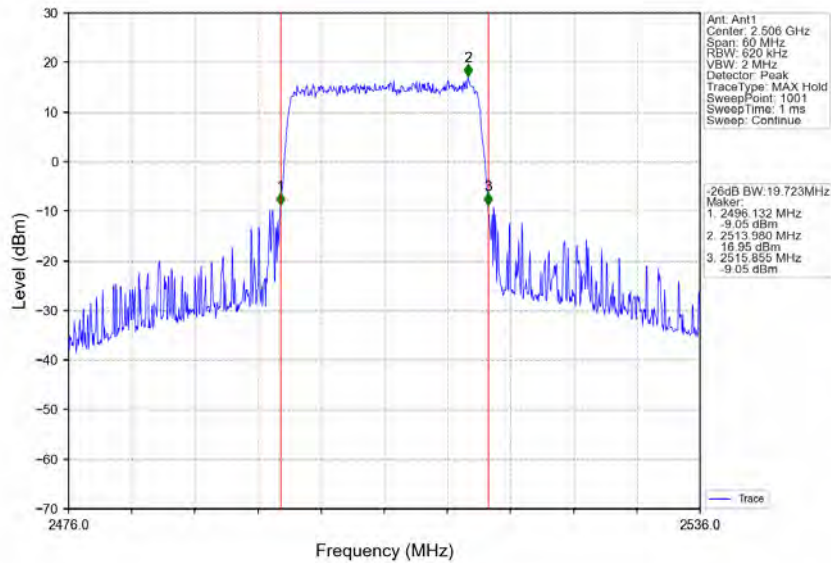
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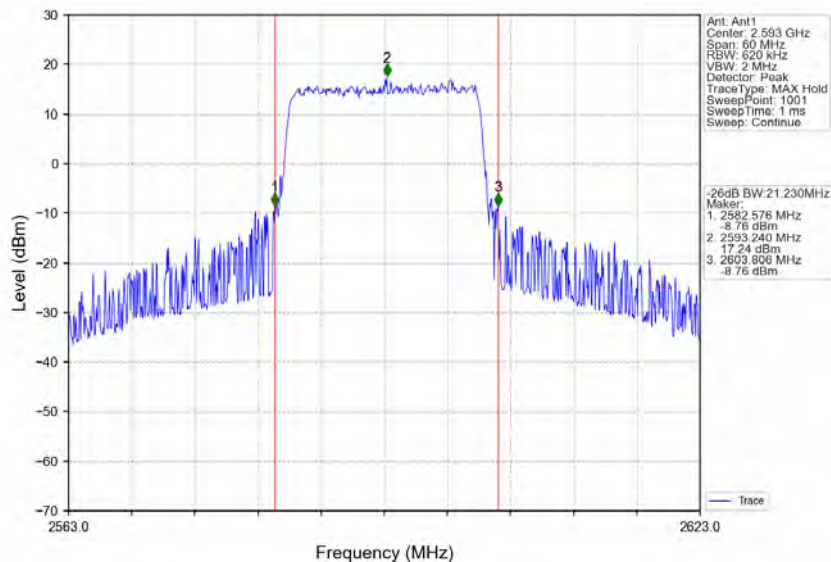
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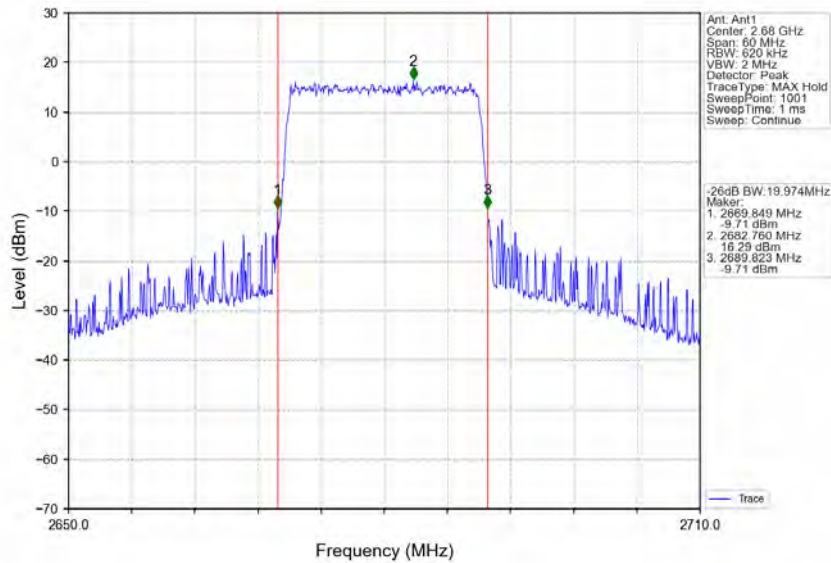
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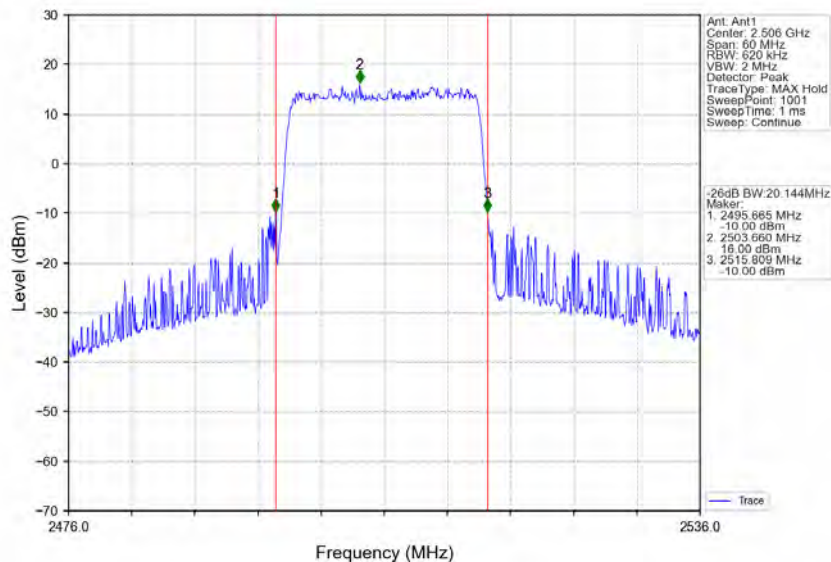
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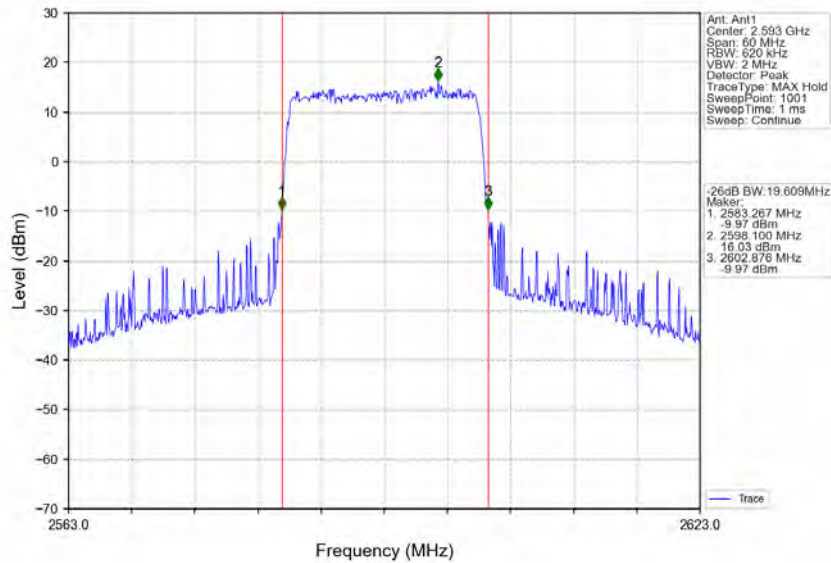
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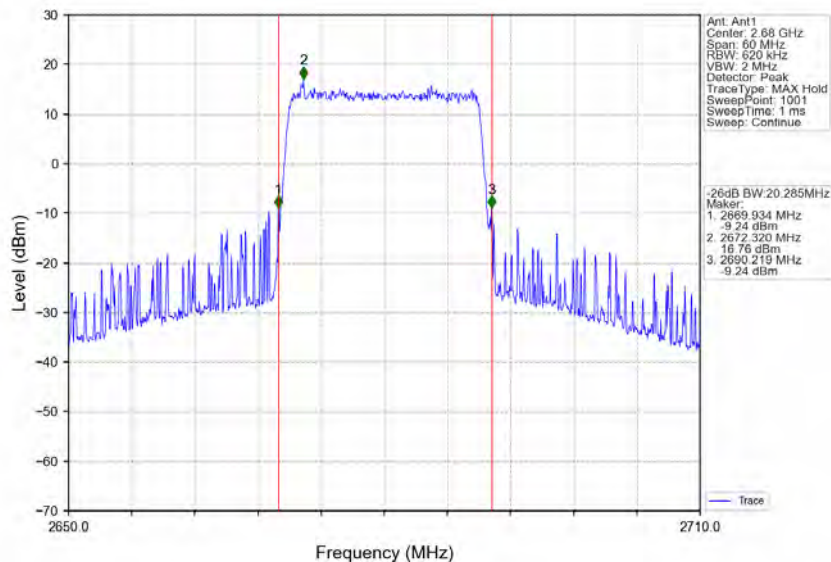
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## 5. Peak-Average Ratio

### 5.1 B41\_5MHz

#### 5.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	25	0	7.48	<=13	Pass
	2593	25	0	7.58	<=13	Pass
	2687.5	25	0	7.49	<=13	Pass
16QAM	2498.5	25	0	8.32	<=13	Pass
	2593	25	0	8.29	<=13	Pass
	2687.5	25	0	8.26	<=13	Pass
64QAM	2498.5	25	0	8.53	<=13	Pass
	2593	25	0	8.52	<=13	Pass
	2687.5	25	0	8.51	<=13	Pass



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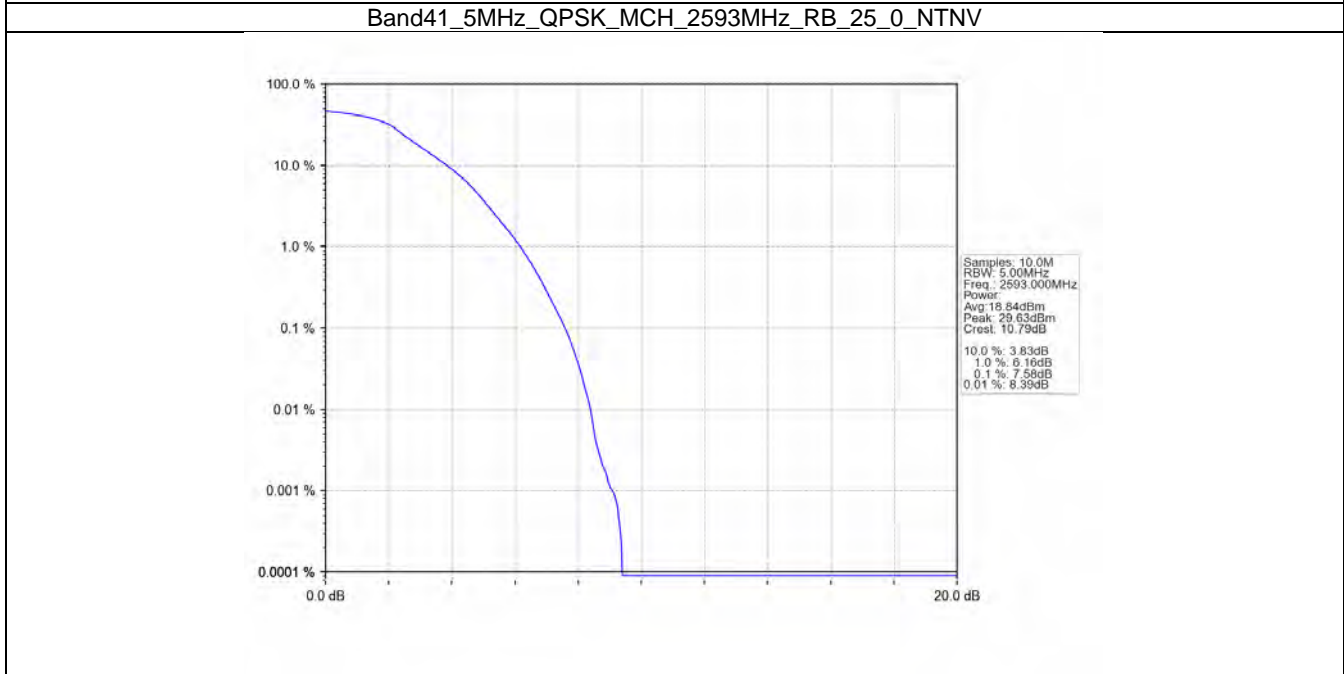
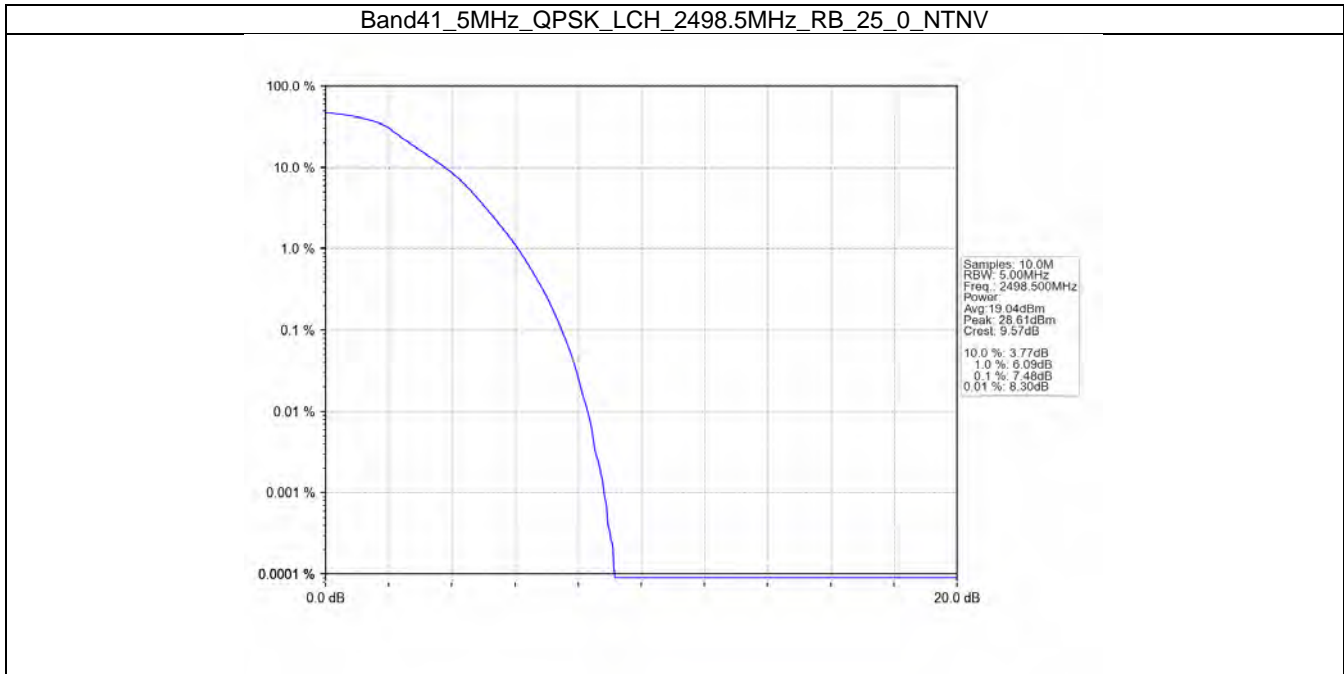
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5.1.2 Test Graph



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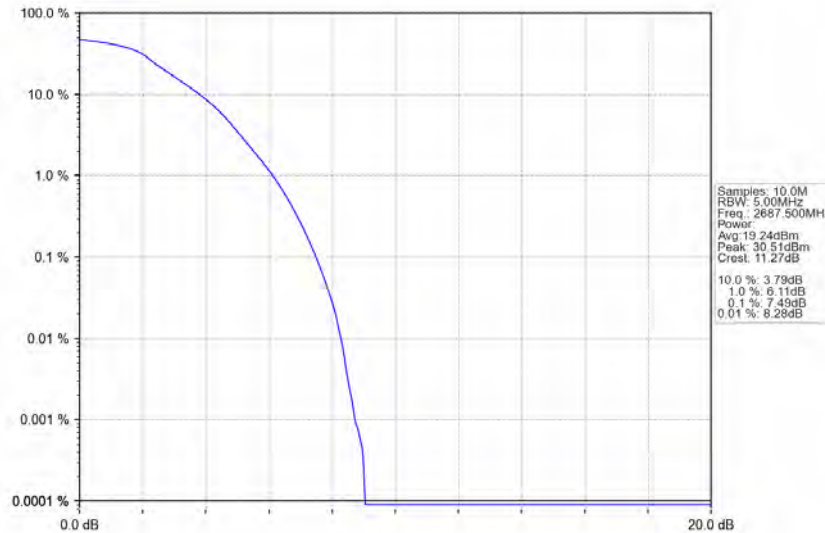
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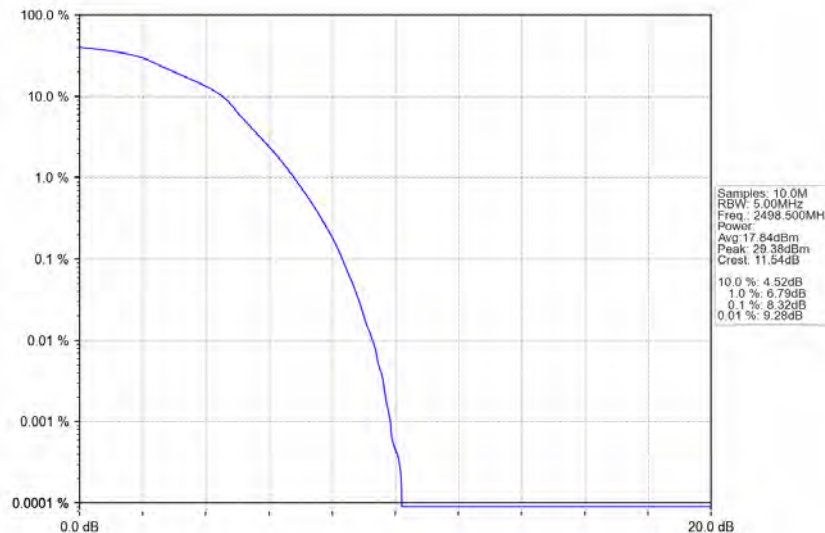
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Band41\_5MHz\_QPSK\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



Band41\_5MHz\_16QAM\_LCH\_2498.5MHz\_RB\_25\_0\_NTNV



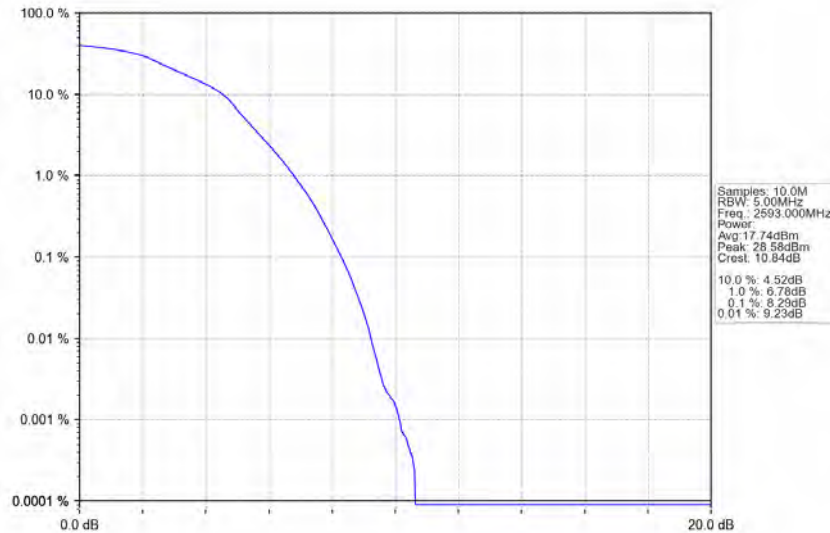
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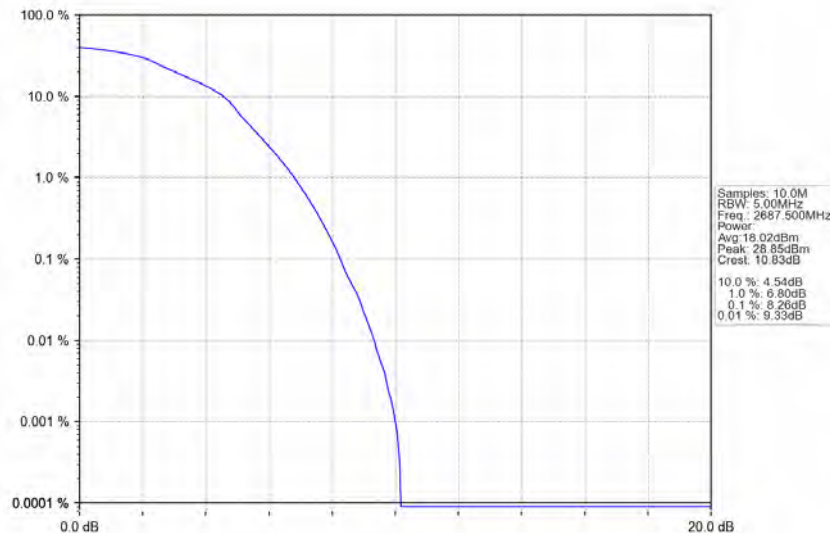
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Band41\_5MHz\_16QAM\_MCH\_2593MHz\_RB\_25\_0\_NTNV



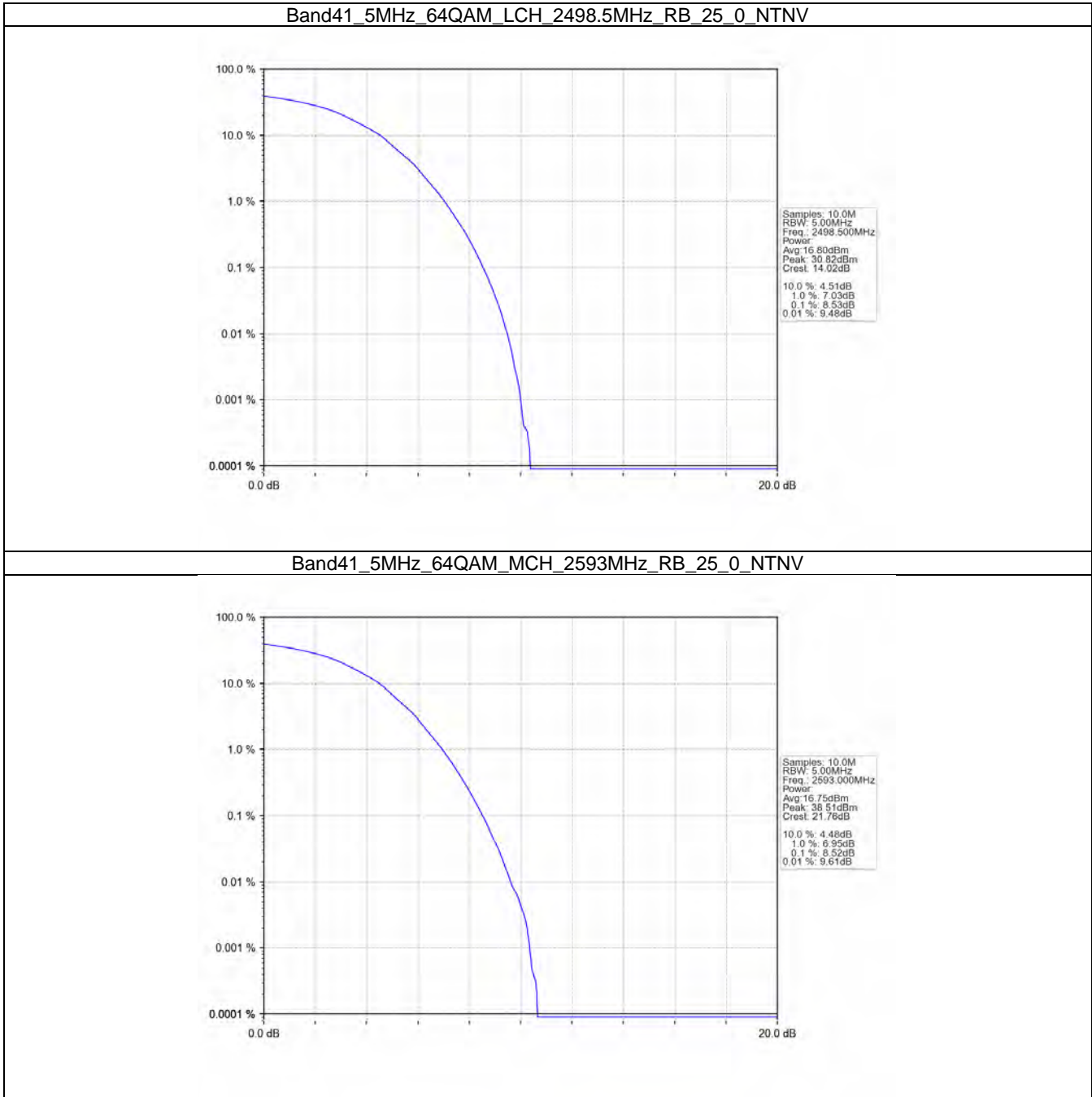
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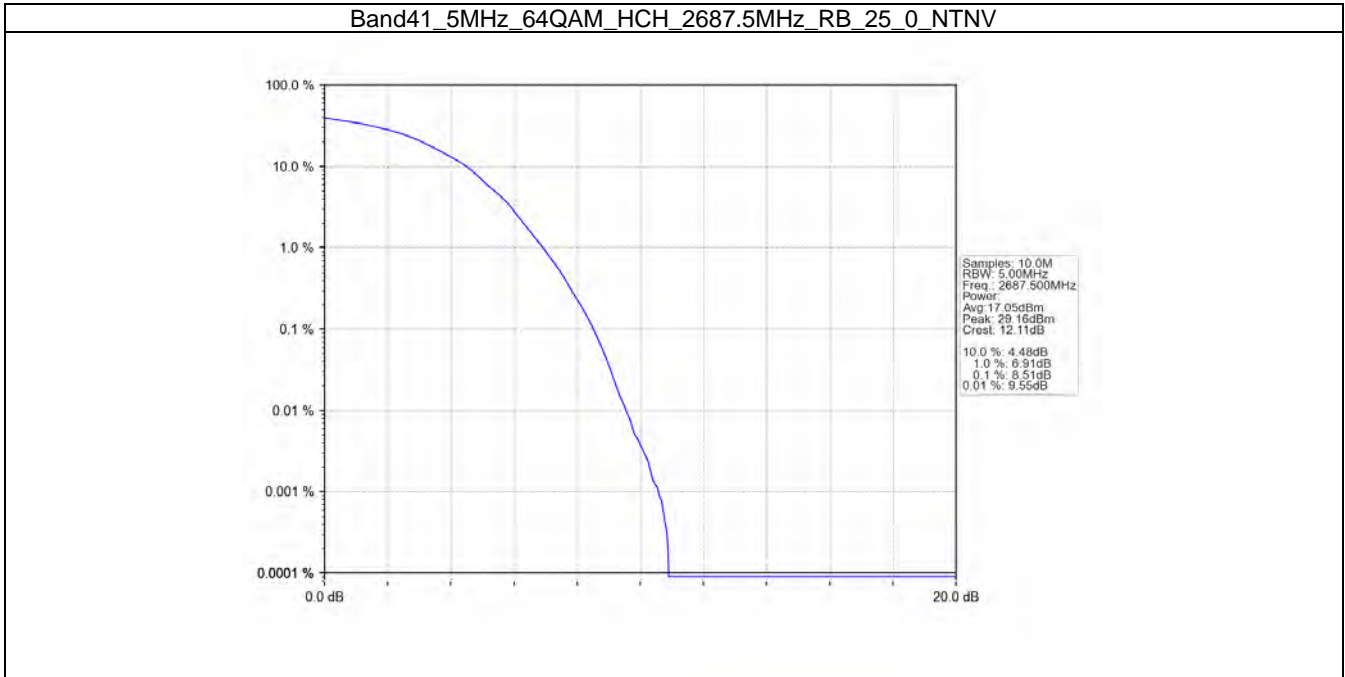
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5.2 B41\_10MHz

5.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	50	0	7.47	<=13	Pass
	2593	50	0	7.72	<=13	Pass
	2685	50	0	7.36	<=13	Pass
16QAM	2501	50	0	8.56	<=13	Pass
	2593	50	0	8.33	<=13	Pass
	2685	50	0	8.51	<=13	Pass
64QAM	2501	50	0	8.62	<=13	Pass
	2593	50	0	8.60	<=13	Pass
	2685	50	0	8.54	<=13	Pass



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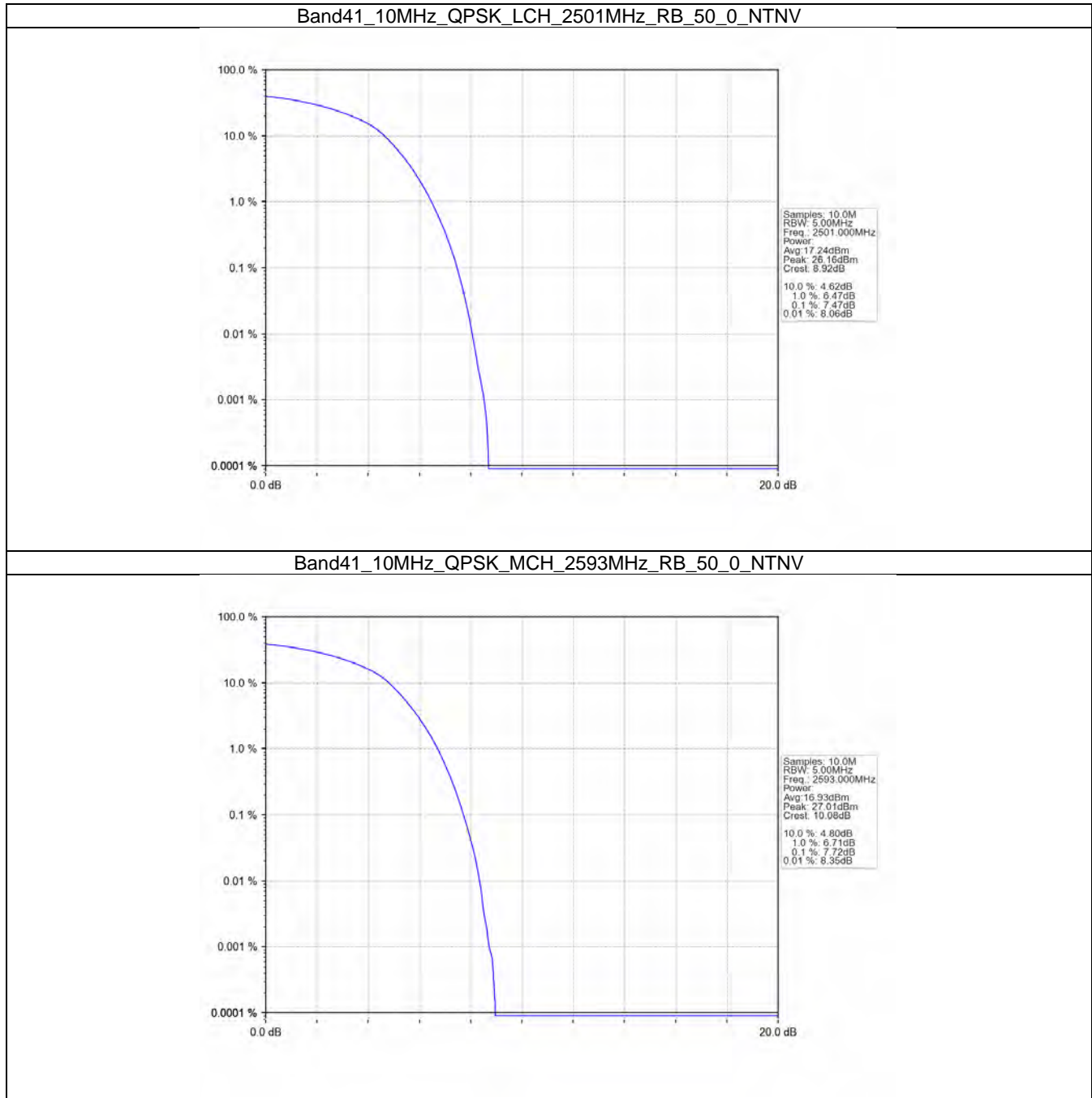
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5.2.2 Test Graph

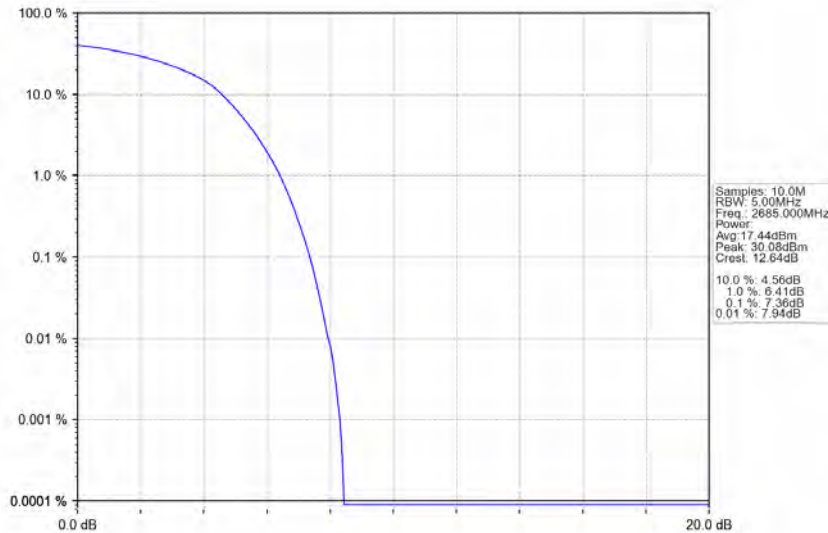


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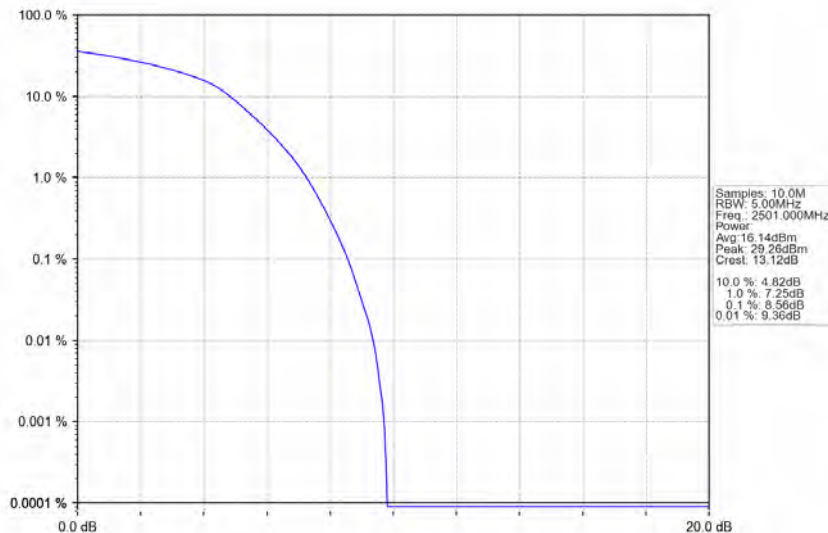
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Band41\_10MHz\_QPSK\_HCH\_2685MHz\_RB\_50\_0\_NTNV

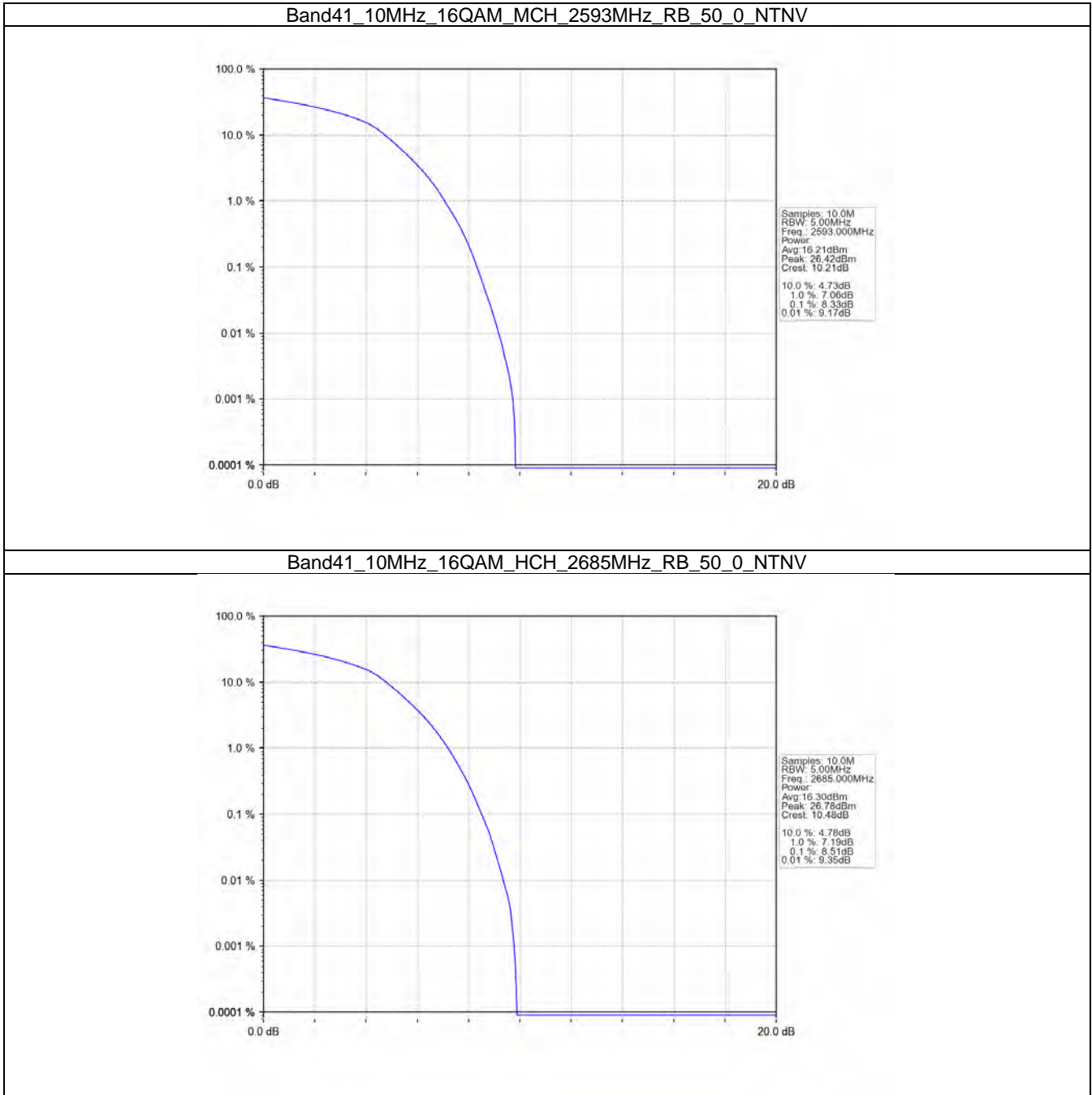


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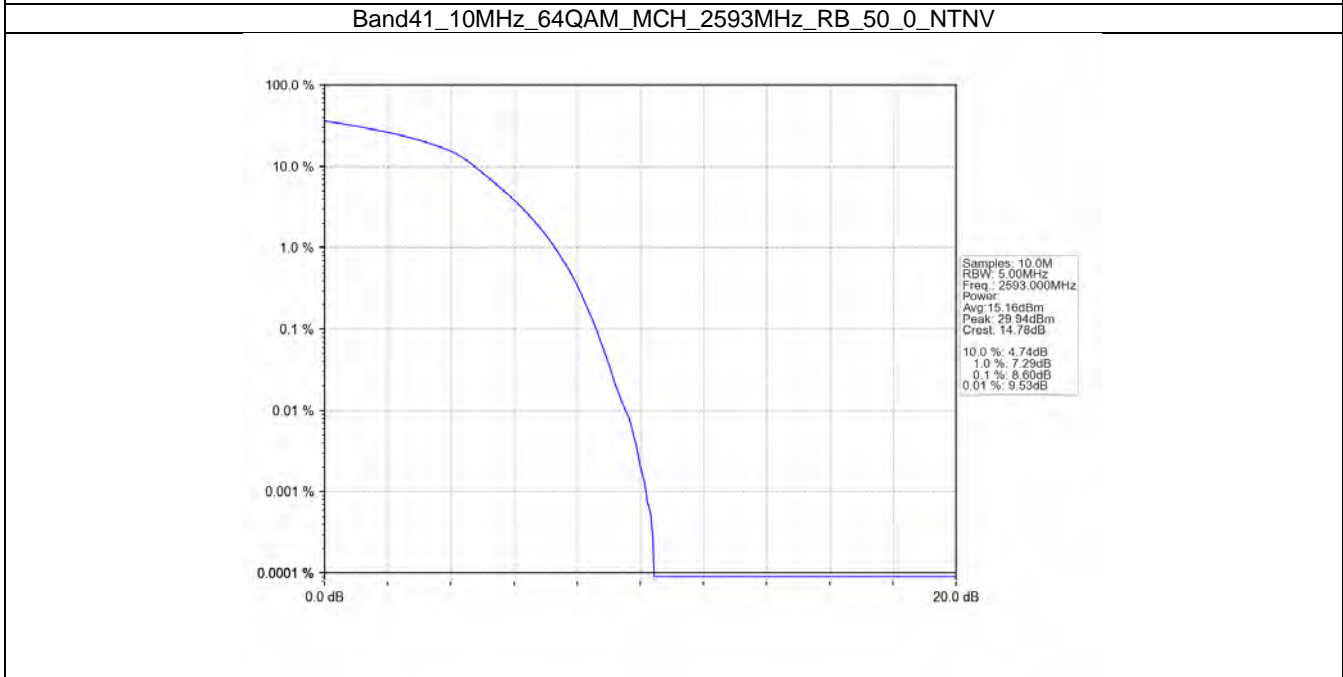
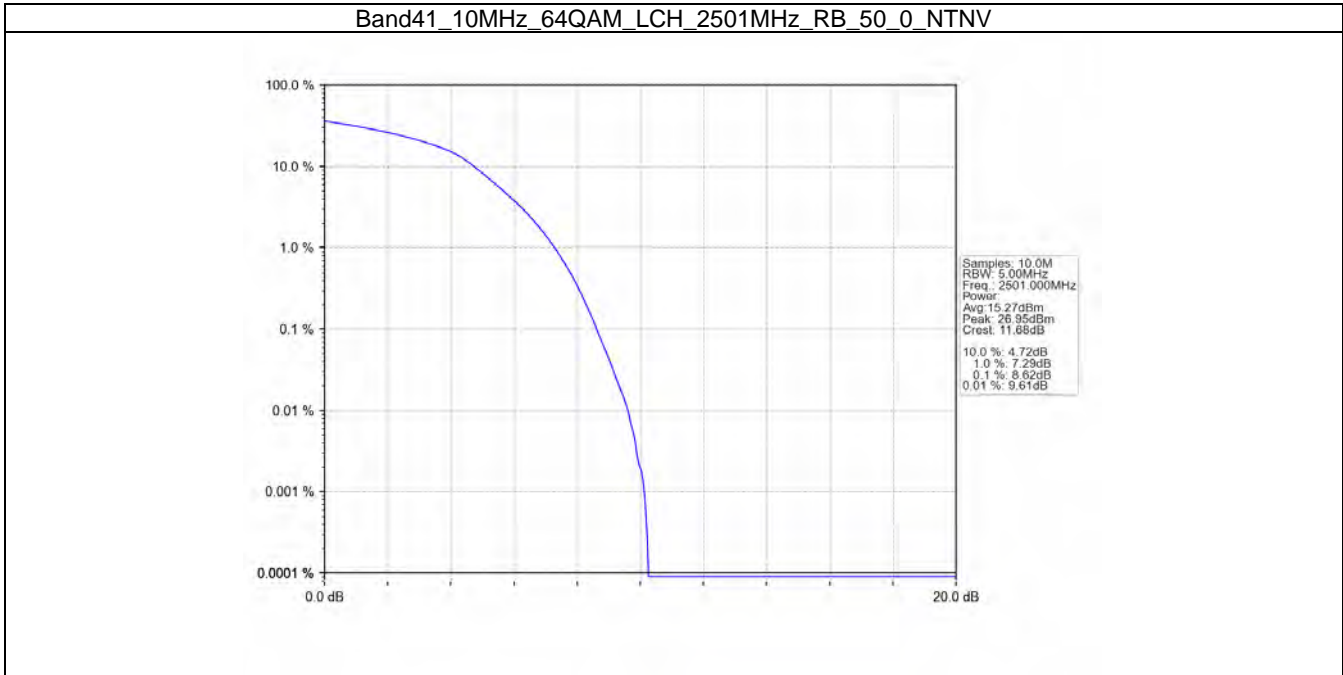
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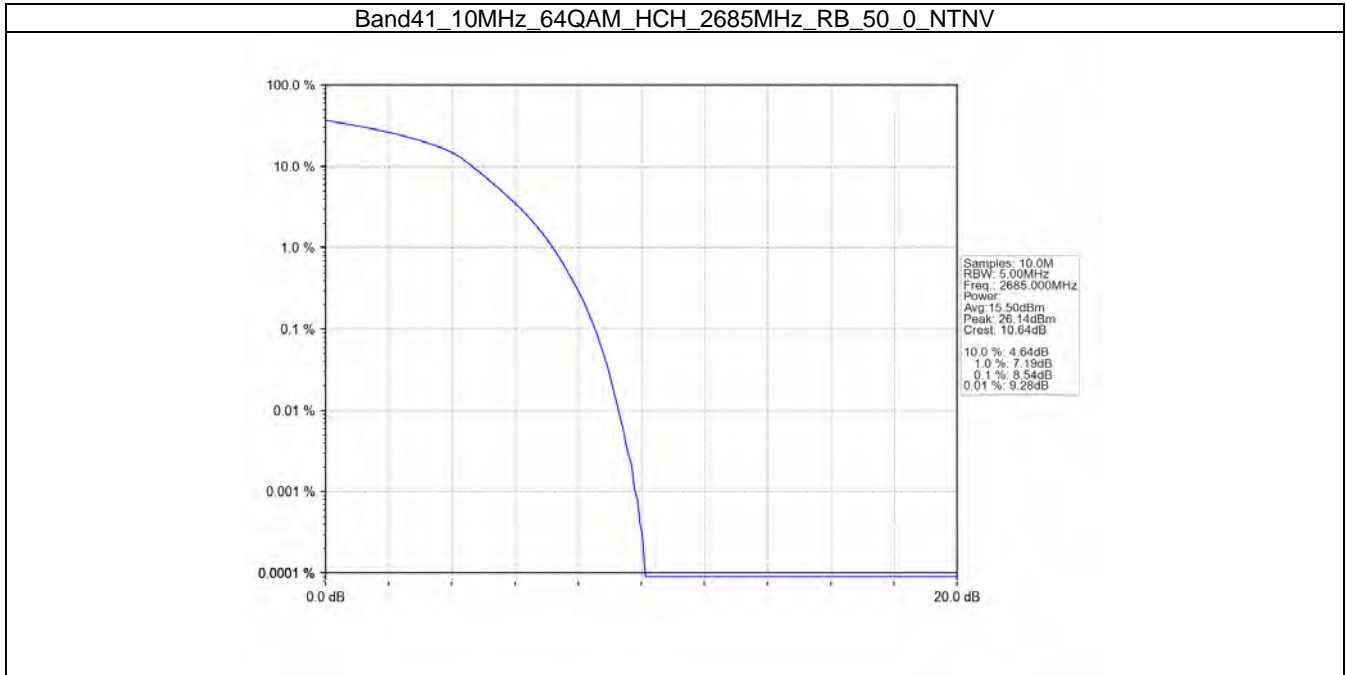
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5.3 B41\_15MHz

5.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	75	0	8.34	<=13	Pass
	2593	75	0	8.32	<=13	Pass
	2682.5	75	0	8.32	<=13	Pass
16QAM	2503.5	75	0	8.93	<=13	Pass
	2593	75	0	9.07	<=13	Pass
	2682.5	75	0	8.98	<=13	Pass
64QAM	2503.5	75	0	9.08	<=13	Pass
	2593	75	0	9.16	<=13	Pass
	2682.5	75	0	9.13	<=13	Pass



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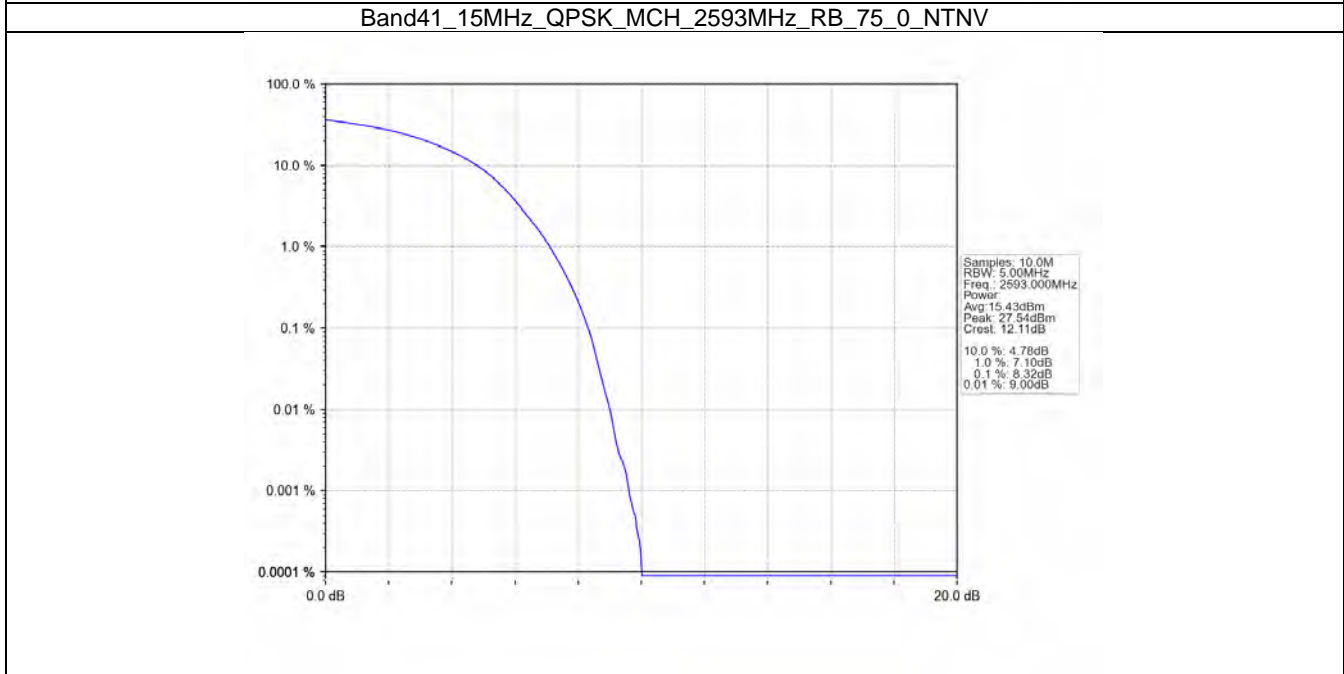
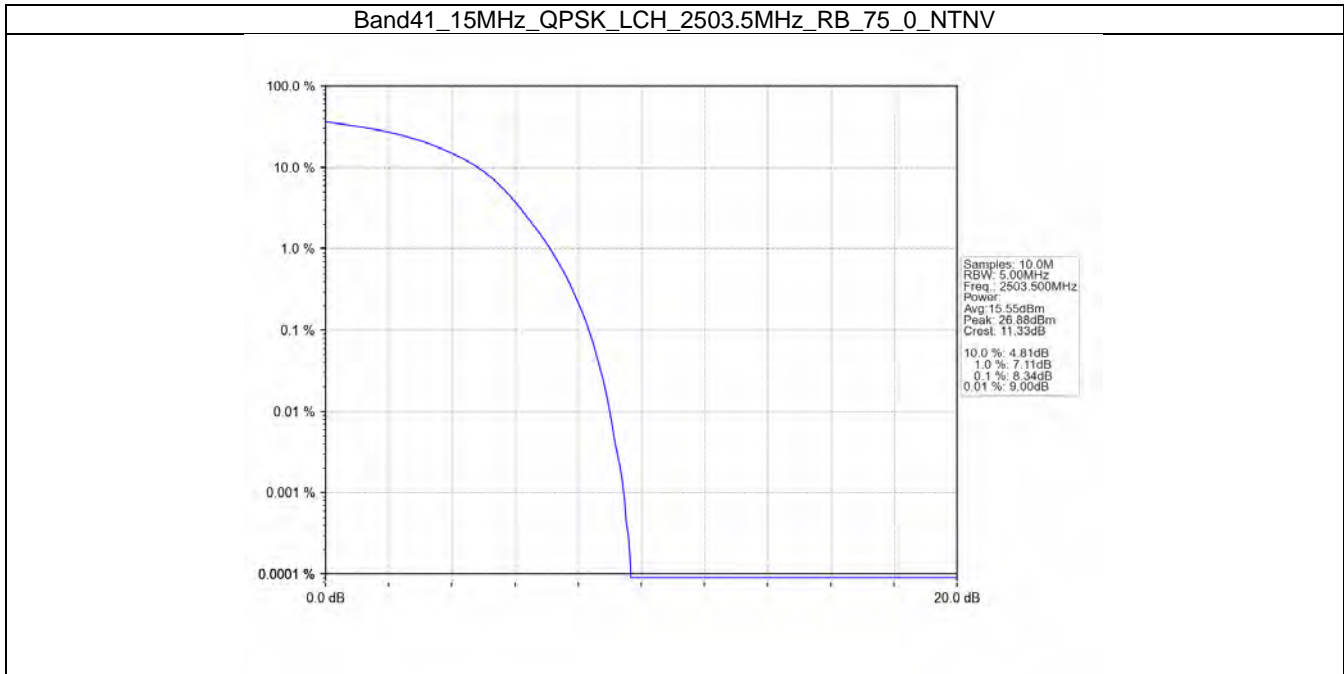
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5.3.2 Test Graph



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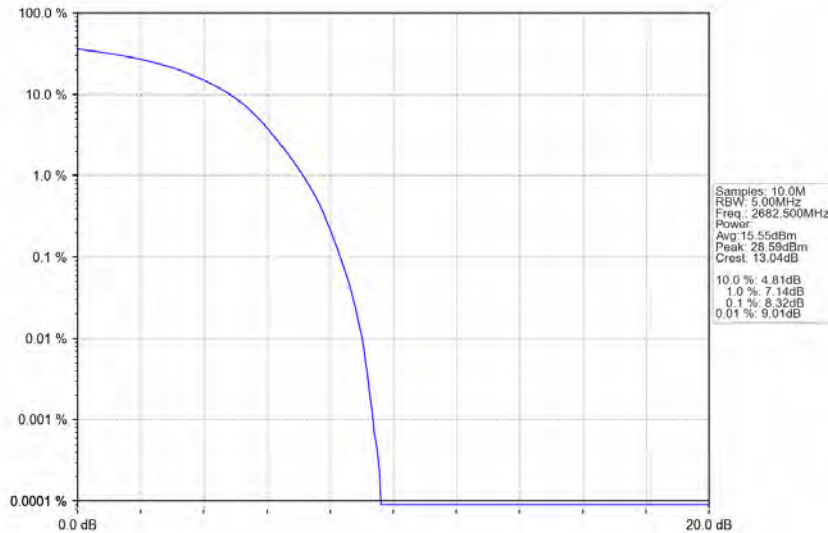
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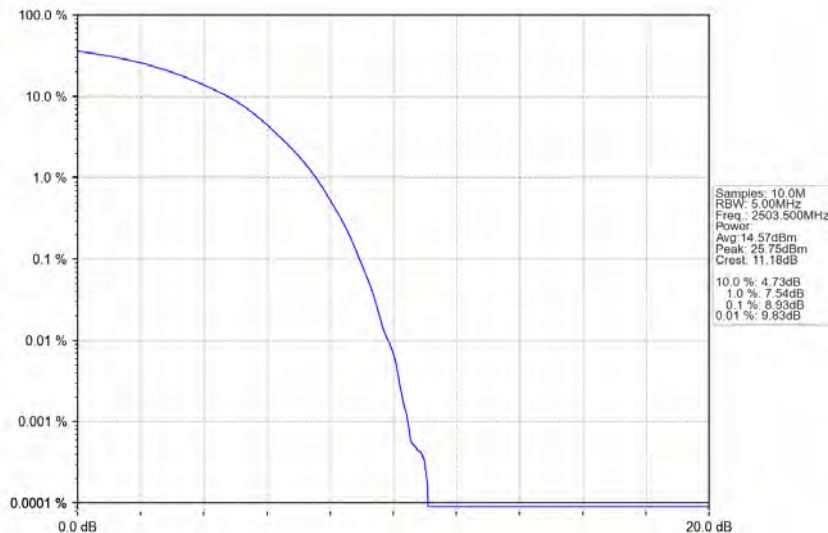
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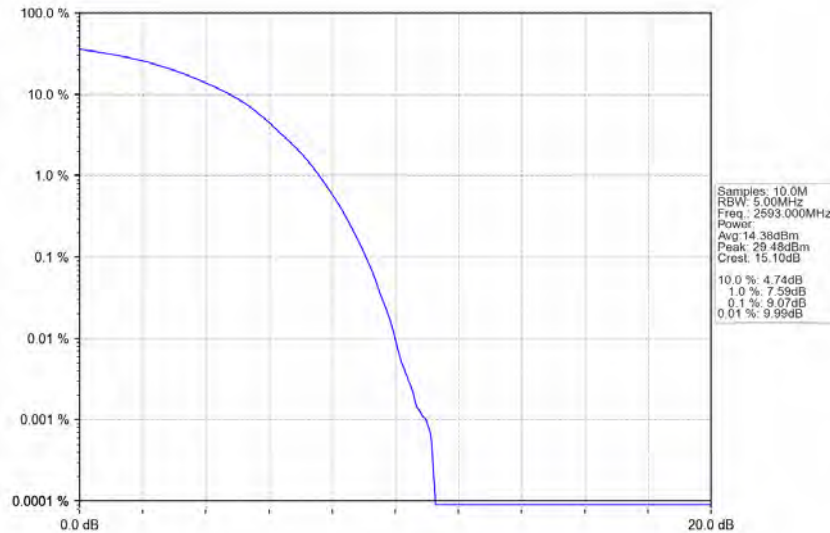
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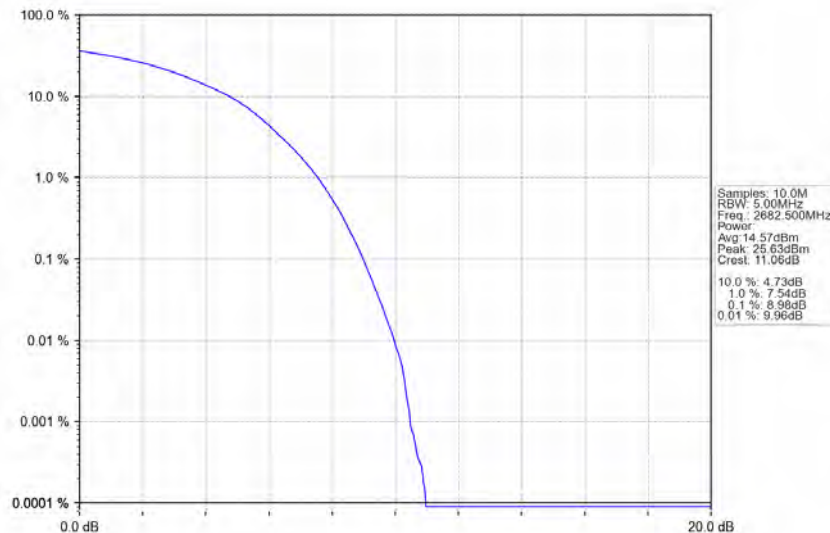
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Band41\_15MHz\_16QAM\_MCH\_2593MHz\_RB\_75\_0\_NTNV



Band41\_15MHz\_16QAM\_HCH\_2682.5MHz\_RB\_75\_0\_NTNV



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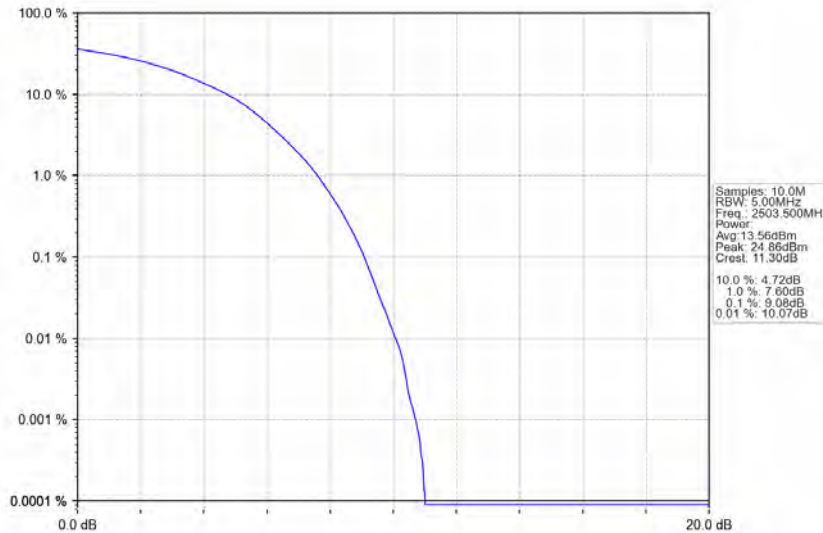
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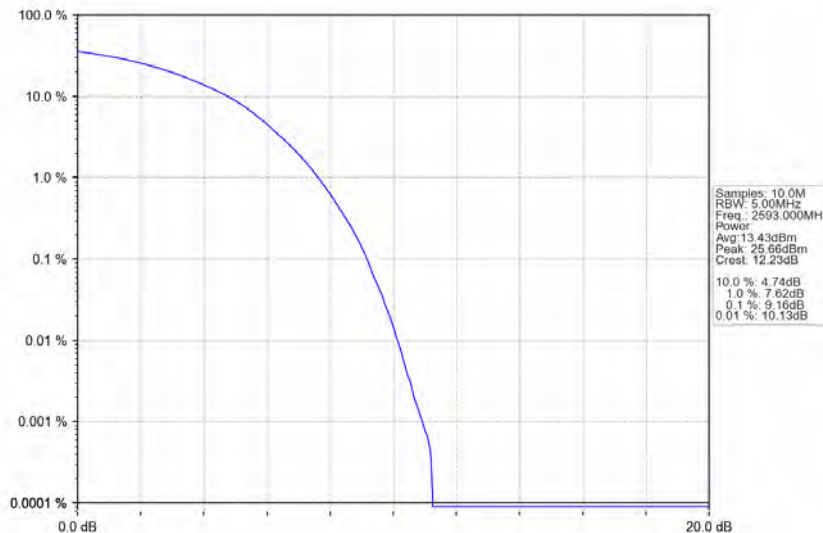
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Band41\_15MHz\_64QAM\_LCH\_2503.5MHz\_RB\_75\_0\_NTNV



Band41\_15MHz\_64QAM\_MCH\_2593MHz\_RB\_75\_0\_NTNV

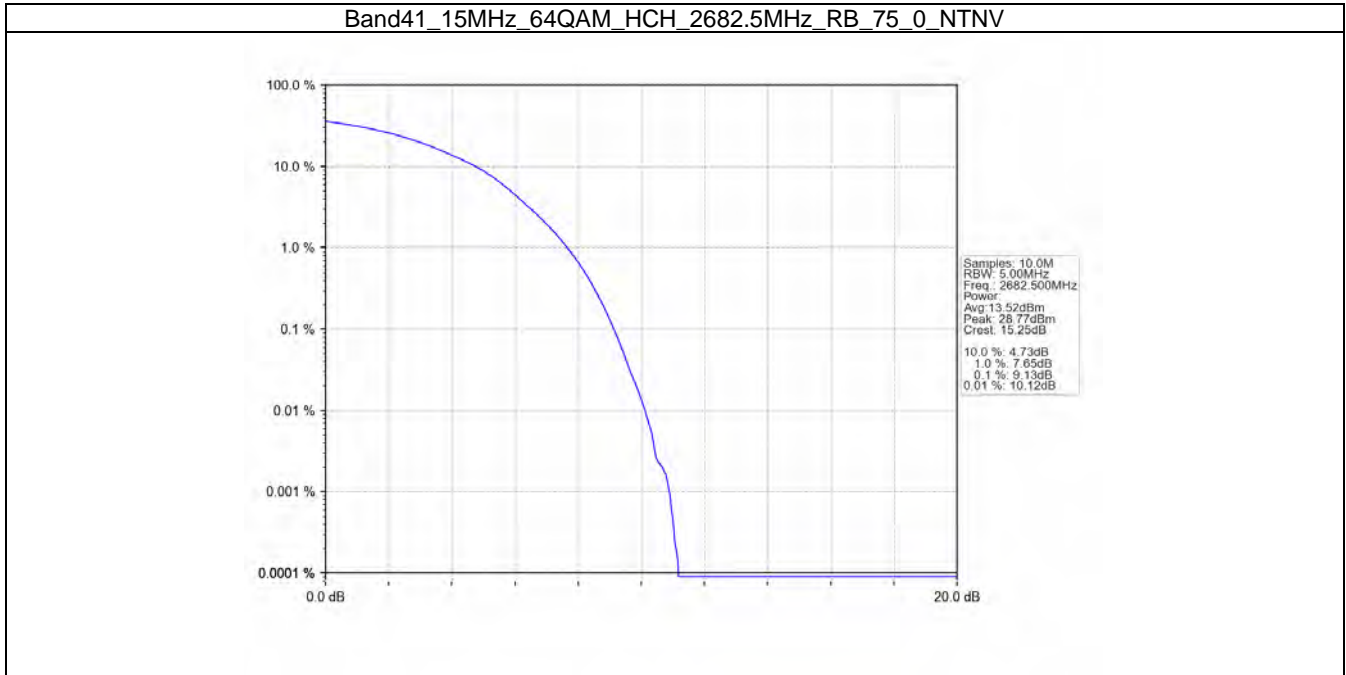


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5.4 B41\_20MHz

5.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2506	100	0	8.81	<=13	Pass
	2593	100	0	8.85	<=13	Pass
	2680	100	0	8.81	<=13	Pass
16QAM	2506	100	0	9.36	<=13	Pass
	2593	100	0	9.26	<=13	Pass
	2680	100	0	9.29	<=13	Pass
64QAM	2506	100	0	9.35	<=13	Pass
	2593	100	0	9.36	<=13	Pass
	2680	100	0	9.41	<=13	Pass



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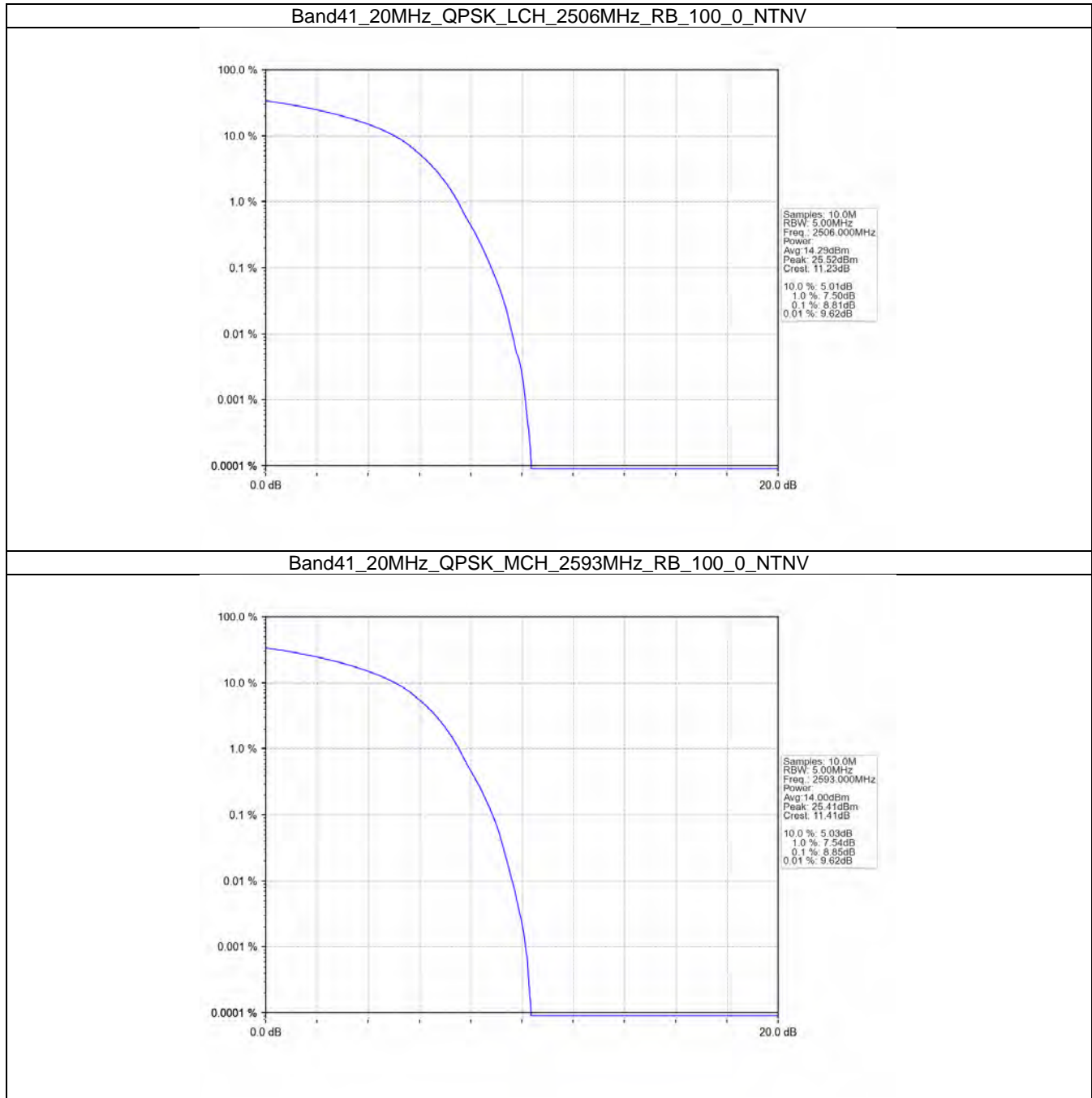
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5.4.2 Test Graph

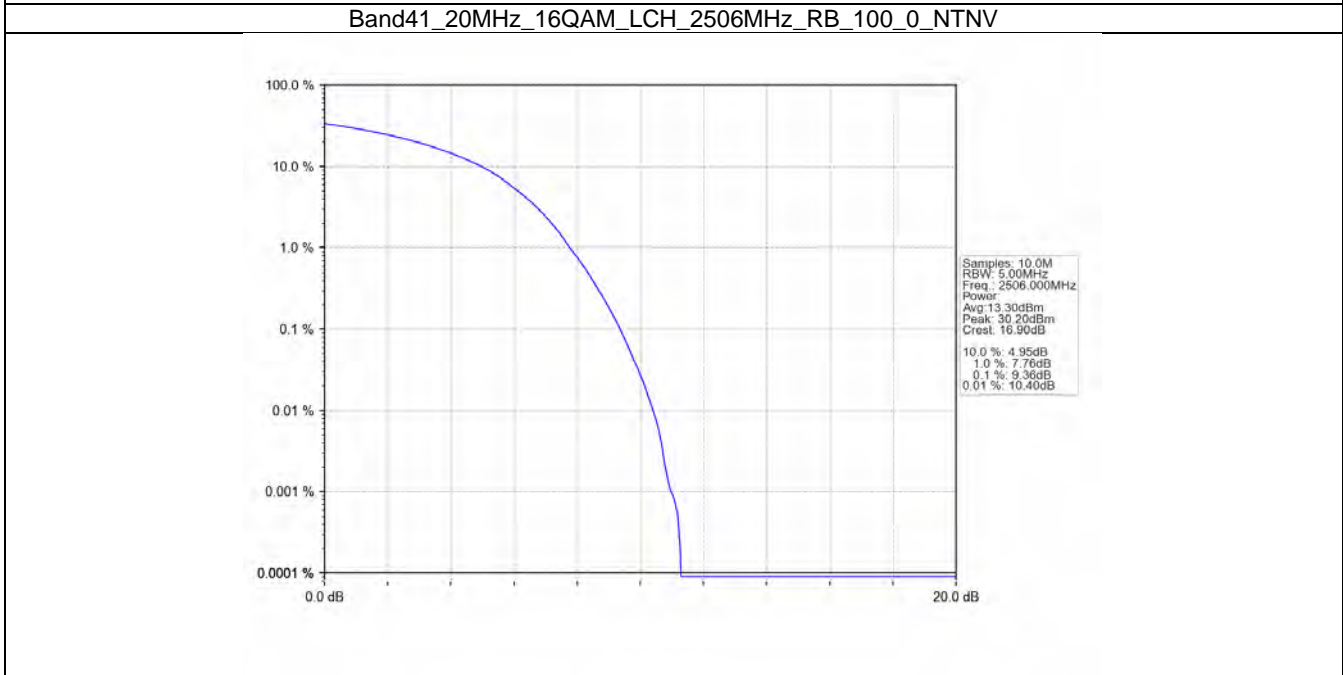
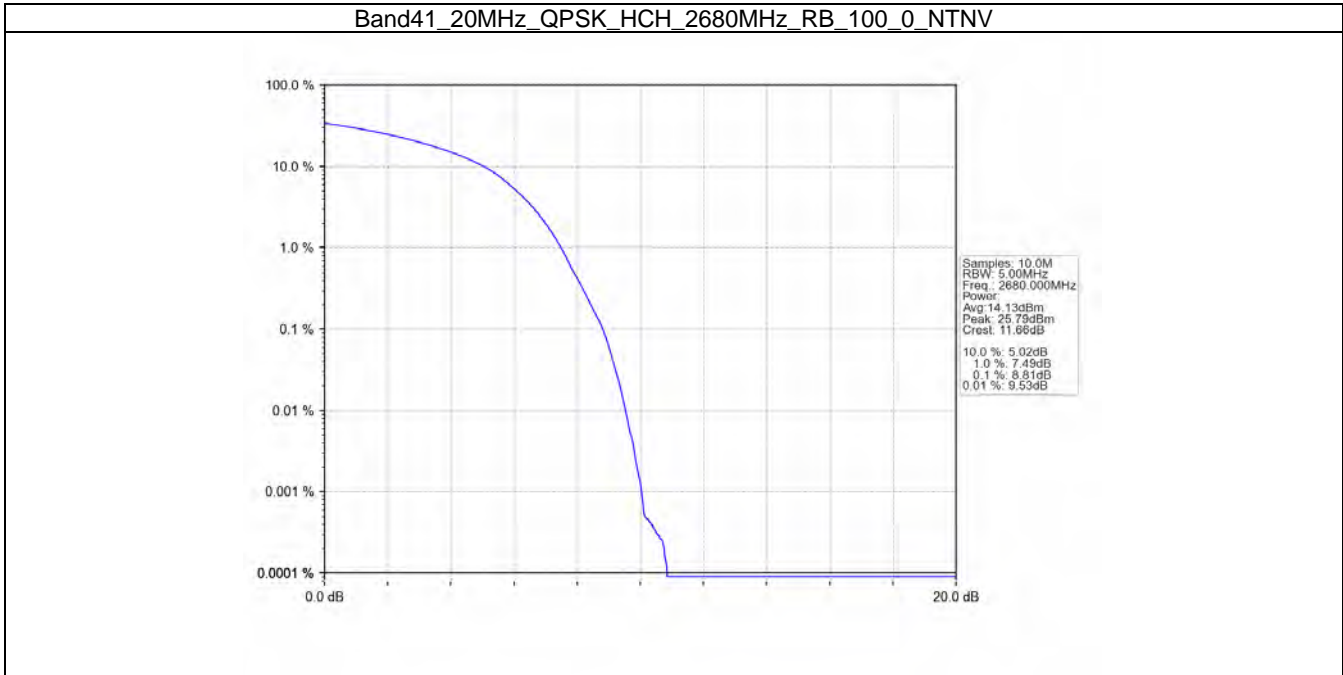


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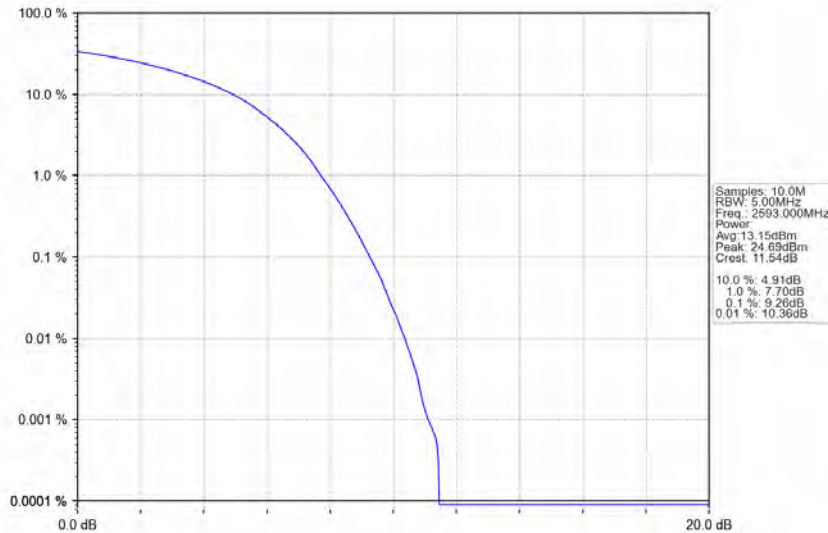
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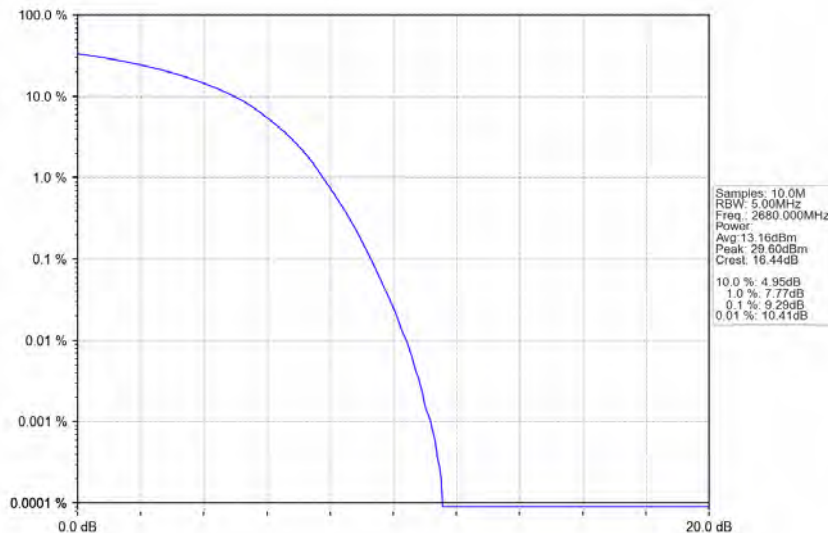
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Band41\_20MHz\_16QAM\_MCH\_2593MHz\_RB\_100\_0\_NTNV



Band41\_20MHz\_16QAM\_HCH\_2680MHz\_RB\_100\_0\_NTNV



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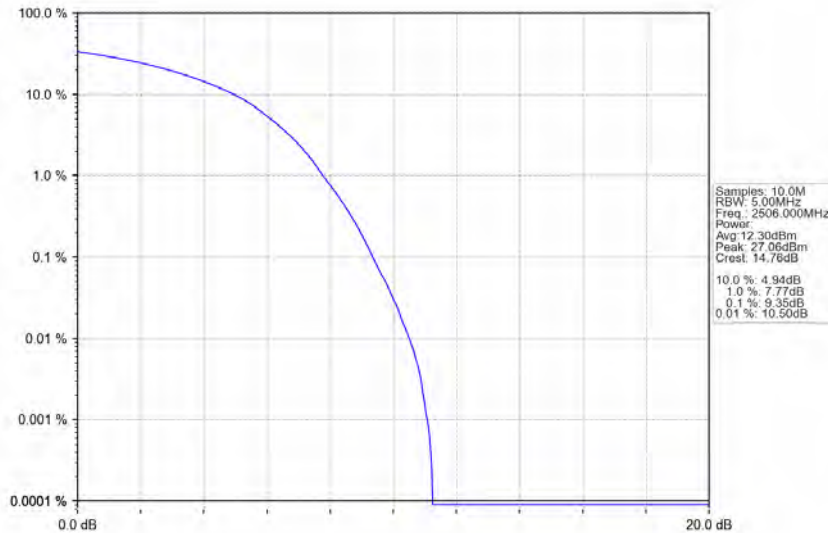
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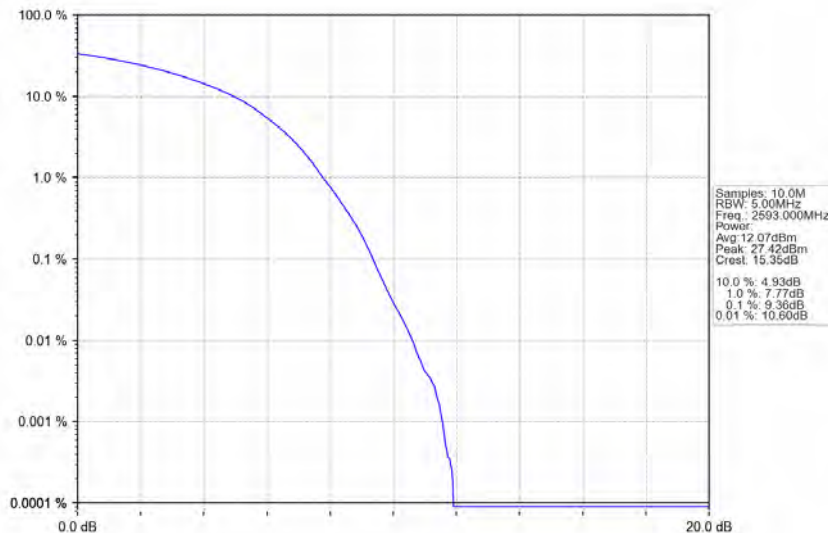
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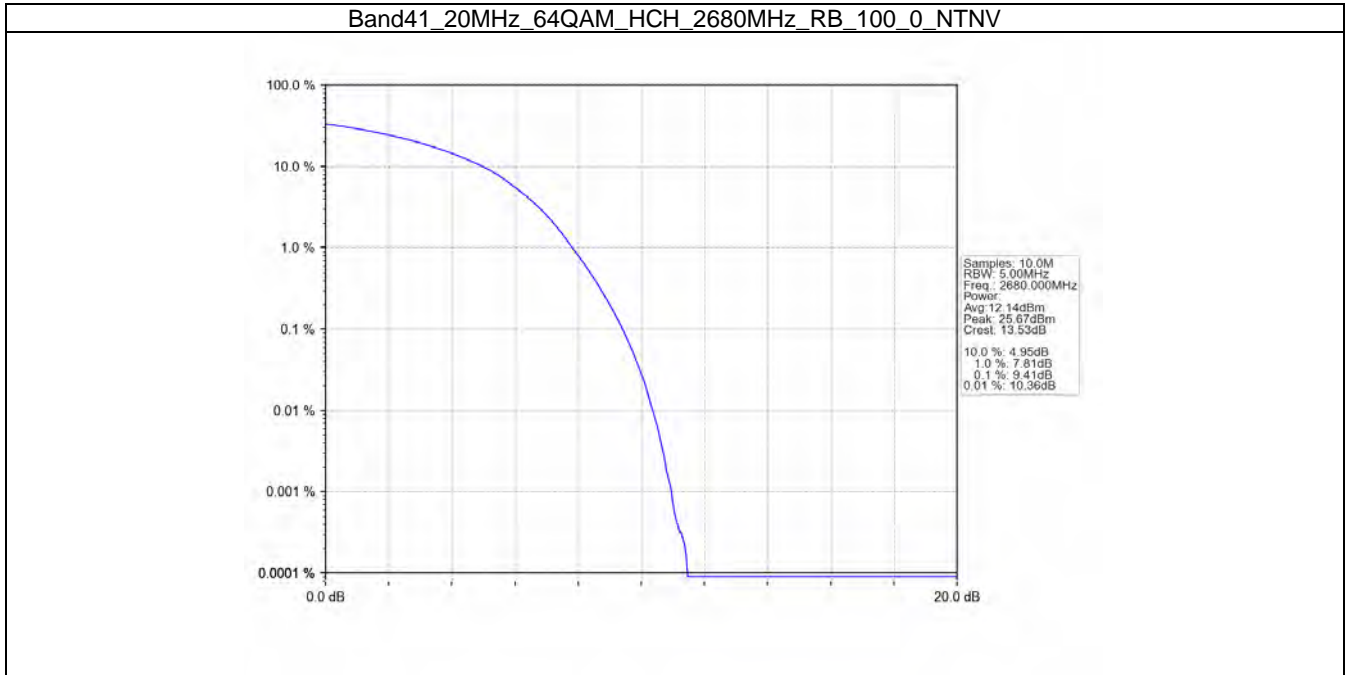
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