

Appendix H for KSCR2207001105AT-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	22.97	1.27	24.24	<=33.01	Pass	
			13	23.17	1.27	24.44	<=33.01	Pass	
			24	23.08	1.27	24.35	<=33.01	Pass	
		12	0	21.91	1.27	23.18	<=33.01	Pass	
			6	21.99	1.27	23.26	<=33.01	Pass	
			13	22.10	1.27	23.37	<=33.01	Pass	
		25	0	21.94	1.27	23.21	<=33.01	Pass	
		2593	1	0	22.68	1.27	23.95	<=33.01	Pass
				13	22.93	1.27	24.20	<=33.01	Pass
	24			22.89	1.27	24.16	<=33.01	Pass	
	12		0	21.88	1.27	23.15	<=33.01	Pass	
			6	21.89	1.27	23.16	<=33.01	Pass	
			13	21.89	1.27	23.16	<=33.01	Pass	
	25		0	21.80	1.27	23.07	<=33.01	Pass	
	2687.5		1	0	23.15	1.27	24.42	<=33.01	Pass
				13	23.45	1.27	24.72	<=33.01	Pass
		24		23.30	1.27	24.57	<=33.01	Pass	
		12	0	22.35	1.27	23.62	<=33.01	Pass	
			6	22.45	1.27	23.72	<=33.01	Pass	
			13	22.44	1.27	23.71	<=33.01	Pass	
	25	0	22.43	1.27	23.70	<=33.01	Pass		
	16QAM	2498.5	1	0	22.24	1.27	23.51	<=33.01	Pass
				13	22.43	1.27	23.70	<=33.01	Pass
				24	22.05	1.27	23.32	<=33.01	Pass
12			0	20.85	1.27	22.12	<=33.01	Pass	
			6	21.06	1.27	22.33	<=33.01	Pass	
			13	21.11	1.27	22.38	<=33.01	Pass	
25			0	20.91	1.27	22.18	<=33.01	Pass	
2593			1	0	21.78	1.27	23.05	<=33.01	Pass
				13	22.12	1.27	23.39	<=33.01	Pass
		24		21.89	1.27	23.16	<=33.01	Pass	
		12	0	20.73	1.27	22.00	<=33.01	Pass	
			6	20.76	1.27	22.03	<=33.01	Pass	
			13	20.79	1.27	22.06	<=33.01	Pass	
		25	0	20.84	1.27	22.11	<=33.01	Pass	
		2687.5	1	0	22.47	1.27	23.74	<=33.01	Pass
				13	22.62	1.27	23.89	<=33.01	Pass
24				22.48	1.27	23.75	<=33.01	Pass	
12			0	21.27	1.27	22.54	<=33.01	Pass	
			6	21.51	1.27	22.78	<=33.01	Pass	
			13	21.39	1.27	22.66	<=33.01	Pass	

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64QAM	2498.5	25	0	21.44	1.27	22.71	<=33.01	Pass	
			1	0	21.13	1.27	22.40	<=33.01	Pass
				13	21.33	1.27	22.60	<=33.01	Pass
		12	24	21.19	1.27	22.46	<=33.01	Pass	
			0	20.04	1.27	21.31	<=33.01	Pass	
			6	20.11	1.27	21.38	<=33.01	Pass	
	2593	25	13	20.06	1.27	21.33	<=33.01	Pass	
			1	0	20.38	1.27	21.65	<=33.01	Pass
				13	20.86	1.27	22.13	<=33.01	Pass
		12	24	20.45	1.27	21.72	<=33.01	Pass	
			0	19.76	1.27	21.03	<=33.01	Pass	
			6	19.92	1.27	21.19	<=33.01	Pass	
	2687.5	25	13	19.66	1.27	20.93	<=33.01	Pass	
			1	0	20.95	1.27	22.22	<=33.01	Pass
				13	21.75	1.27	23.02	<=33.01	Pass
		12	24	21.69	1.27	22.96	<=33.01	Pass	
			0	20.25	1.27	21.52	<=33.01	Pass	
			6	20.29	1.27	21.56	<=33.01	Pass	
	25	13	20.45	1.27	21.72	<=33.01	Pass		
		0	20.40	1.27	21.67	<=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	23.02	1.27	24.29	<=33.01	Pass	
			25	23.31	1.27	24.58	<=33.01	Pass	
			49	23.32	1.27	24.59	<=33.01	Pass	
		25	0	22.09	1.27	23.36	<=33.01	Pass	
			13	22.18	1.27	23.45	<=33.01	Pass	
			25	22.17	1.27	23.44	<=33.01	Pass	
	2593	50	0	22.18	1.27	23.45	<=33.01	Pass	
			1	0	22.83	1.27	24.10	<=33.01	Pass
				25	23.12	1.27	24.39	<=33.01	Pass
		25	49	22.97	1.27	24.24	<=33.01	Pass	
			0	21.79	1.27	23.06	<=33.01	Pass	
			13	21.94	1.27	23.21	<=33.01	Pass	
	2685	50	25	21.87	1.27	23.14	<=33.01	Pass	
			0	21.89	1.27	23.16	<=33.01	Pass	
			0	23.14	1.27	24.41	<=33.01	Pass	
		1	25	23.48	1.27	24.75	<=33.01	Pass	
			49	23.44	1.27	24.71	<=33.01	Pass	
			0	22.27	1.27	23.54	<=33.01	Pass	
	25	13	22.31	1.27	23.58	<=33.01	Pass		
		25	22.40	1.27	23.67	<=33.01	Pass		
		0	22.36	1.27	23.63	<=33.01	Pass		

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16QAM	2501	1	0	21.84	1.27	23.11	<=33.01	Pass	
			25	22.50	1.27	23.77	<=33.01	Pass	
			49	22.20	1.27	23.47	<=33.01	Pass	
		25	0	21.01	1.27	22.28	<=33.01	Pass	
			13	21.13	1.27	22.40	<=33.01	Pass	
			25	21.32	1.27	22.59	<=33.01	Pass	
	50	0	21.12	1.27	22.39	<=33.01	Pass		
	2593	1	0	21.68	1.27	22.95	<=33.01	Pass	
			25	21.87	1.27	23.14	<=33.01	Pass	
			49	21.96	1.27	23.23	<=33.01	Pass	
		25	0	20.76	1.27	22.03	<=33.01	Pass	
			13	20.94	1.27	22.21	<=33.01	Pass	
			25	20.98	1.27	22.25	<=33.01	Pass	
		50	0	20.77	1.27	22.04	<=33.01	Pass	
		2685	1	0	22.03	1.27	23.30	<=33.01	Pass
				25	22.20	1.27	23.47	<=33.01	Pass
				49	22.26	1.27	23.53	<=33.01	Pass
			25	0	21.27	1.27	22.54	<=33.01	Pass
13				21.34	1.27	22.61	<=33.01	Pass	
25	21.32			1.27	22.59	<=33.01	Pass		
50	0		21.23	1.27	22.50	<=33.01	Pass		
64QAM	2501		1	0	20.76	1.27	22.03	<=33.01	Pass
				25	20.83	1.27	22.10	<=33.01	Pass
		49		21.57	1.27	22.84	<=33.01	Pass	
		25	0	20.09	1.27	21.36	<=33.01	Pass	
			13	20.17	1.27	21.44	<=33.01	Pass	
			25	20.29	1.27	21.56	<=33.01	Pass	
	50	0	20.23	1.27	21.50	<=33.01	Pass		
	2593	1	0	21.14	1.27	22.41	<=33.01	Pass	
			25	20.69	1.27	21.96	<=33.01	Pass	
			49	20.40	1.27	21.67	<=33.01	Pass	
		25	0	19.66	1.27	20.93	<=33.01	Pass	
			13	19.94	1.27	21.21	<=33.01	Pass	
			25	19.95	1.27	21.22	<=33.01	Pass	
		50	0	19.85	1.27	21.12	<=33.01	Pass	
		2685	1	0	21.01	1.27	22.28	<=33.01	Pass
				25	21.32	1.27	22.59	<=33.01	Pass
	49			21.16	1.27	22.43	<=33.01	Pass	
	25		0	20.18	1.27	21.45	<=33.01	Pass	
13			20.24	1.27	21.51	<=33.01	Pass		
25			20.31	1.27	21.58	<=33.01	Pass		
50	0		20.28	1.27	21.55	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

1.3 B41_15MHz_EIRP

1.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2503.5	1	0	22.95	1.27	24.22	<=33.01	Pass



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	2593	36	38	23.28	1.27	24.55	<=33.01	Pass			
			74	23.26	1.27	24.53	<=33.01	Pass			
			0	22.14	1.27	23.41	<=33.01	Pass			
		75	1	18	22.17	1.27	23.44	<=33.01	Pass		
				39	22.31	1.27	23.58	<=33.01	Pass		
				0	22.21	1.27	23.48	<=33.01	Pass		
		2682.5	36	0	22.59	1.27	23.86	<=33.01	Pass		
				38	22.88	1.27	24.15	<=33.01	Pass		
				74	22.86	1.27	24.13	<=33.01	Pass		
		2503.5	1	0	21.73	1.27	23.00	<=33.01	Pass		
				18	21.84	1.27	23.11	<=33.01	Pass		
				39	21.99	1.27	23.26	<=33.01	Pass		
	2682.5	36	0	21.94	1.27	23.21	<=33.01	Pass			
			0	22.83	1.27	24.10	<=33.01	Pass			
			38	23.33	1.27	24.60	<=33.01	Pass			
	16QAM	2593	1	74	23.28	1.27	24.55	<=33.01	Pass		
				0	22.09	1.27	23.36	<=33.01	Pass		
				36	18	22.27	1.27	23.54	<=33.01	Pass	
			2503.5	36	39	22.34	1.27	23.61	<=33.01	Pass	
					75	0	22.30	1.27	23.57	<=33.01	Pass
					0	22.14	1.27	23.41	<=33.01	Pass	
			2682.5	1	38	22.03	1.27	23.30	<=33.01	Pass	
					74	22.35	1.27	23.62	<=33.01	Pass	
					0	21.02	1.27	22.29	<=33.01	Pass	
2593			36	18	21.14	1.27	22.41	<=33.01	Pass		
				39	21.29	1.27	22.56	<=33.01	Pass		
				75	0	21.09	1.27	22.36	<=33.01	Pass	
2682.5		1	0	21.59	1.27	22.86	<=33.01	Pass			
			38	21.70	1.27	22.97	<=33.01	Pass			
			74	21.68	1.27	22.95	<=33.01	Pass			
2503.5		36	0	20.79	1.27	22.06	<=33.01	Pass			
			18	20.80	1.27	22.07	<=33.01	Pass			
			39	20.83	1.27	22.10	<=33.01	Pass			
2682.5		1	75	0	20.92	1.27	22.19	<=33.01	Pass		
			0	22.40	1.27	23.67	<=33.01	Pass			
			38	22.68	1.27	23.95	<=33.01	Pass			
64QAM		2503.5	1	74	22.07	1.27	23.34	<=33.01	Pass		
				0	21.15	1.27	22.42	<=33.01	Pass		
				36	18	21.24	1.27	22.51	<=33.01	Pass	
	2593		36	39	21.30	1.27	22.57	<=33.01	Pass		
				75	0	21.20	1.27	22.47	<=33.01	Pass	
				0	20.74	1.27	22.01	<=33.01	Pass		
	2503.5		1	38	20.67	1.27	21.94	<=33.01	Pass		
				74	20.67	1.27	21.94	<=33.01	Pass		
				0	20.16	1.27	21.43	<=33.01	Pass		
	2593		36	18	20.18	1.27	21.45	<=33.01	Pass		
				39	20.25	1.27	21.52	<=33.01	Pass		
				75	0	20.26	1.27	21.53	<=33.01	Pass	
	2503.5	1	0	20.98	1.27	22.25	<=33.01	Pass			
			38	20.95	1.27	22.22	<=33.01	Pass			
			74	21.29	1.27	22.56	<=33.01	Pass			
	2593	36	0	19.66	1.27	20.93	<=33.01	Pass			
			18	19.78	1.27	21.05	<=33.01	Pass			
			39	19.96	1.27	21.23	<=33.01	Pass			



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	2682.5	75	0	19.88	1.27	21.15	<=33.01	Pass
		1	0	20.77	1.27	22.04	<=33.01	Pass
			38	21.25	1.27	22.52	<=33.01	Pass
			74	21.57	1.27	22.84	<=33.01	Pass
			0	20.15	1.27	21.42	<=33.01	Pass
		36	18	20.17	1.27	21.44	<=33.01	Pass
			39	20.36	1.27	21.63	<=33.01	Pass
			75	0	20.26	1.27	21.53	<=33.01

Note1: EIRP=Conducted Power+Antenna Gain

1.4 B41_20MHz_EIRP

1.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2506	1	0	22.89	1.27	24.16	<=33.01	Pass		
			50	23.44	1.27	24.71	<=33.01	Pass		
			99	22.98	1.27	24.25	<=33.01	Pass		
		50	0	22.10	1.27	23.37	<=33.01	Pass		
			25	22.30	1.27	23.57	<=33.01	Pass		
			50	22.28	1.27	23.55	<=33.01	Pass		
		100	0	22.17	1.27	23.44	<=33.01	Pass		
		2593	1	0	22.33	1.27	23.60	<=33.01	Pass	
				50	23.04	1.27	24.31	<=33.01	Pass	
	99			22.70	1.27	23.97	<=33.01	Pass		
	50		0	21.68	1.27	22.95	<=33.01	Pass		
			25	21.81	1.27	23.08	<=33.01	Pass		
			50	21.91	1.27	23.18	<=33.01	Pass		
	100	0	21.88	1.27	23.15	<=33.01	Pass			
	2680	1	0	22.66	1.27	23.93	<=33.01	Pass		
			50	23.22	1.27	24.49	<=33.01	Pass		
			99	23.15	1.27	24.42	<=33.01	Pass		
		50	0	22.01	1.27	23.28	<=33.01	Pass		
			25	22.11	1.27	23.38	<=33.01	Pass		
			50	22.21	1.27	23.48	<=33.01	Pass		
		100	0	22.12	1.27	23.39	<=33.01	Pass		
		16QAM	2506	1	0	21.83	1.27	23.10	<=33.01	Pass
					50	22.37	1.27	23.64	<=33.01	Pass
	99				22.24	1.27	23.51	<=33.01	Pass	
50	0			21.12	1.27	22.39	<=33.01	Pass		
	25			21.34	1.27	22.61	<=33.01	Pass		
	50			21.25	1.27	22.52	<=33.01	Pass		
100	0		21.21	1.27	22.48	<=33.01	Pass			
2593	1		0	21.05	1.27	22.32	<=33.01	Pass		
			50	21.74	1.27	23.01	<=33.01	Pass		
			99	21.54	1.27	22.81	<=33.01	Pass		
	50		0	20.77	1.27	22.04	<=33.01	Pass		
			25	20.80	1.27	22.07	<=33.01	Pass		
			50	21.01	1.27	22.28	<=33.01	Pass		
	100		0	20.87	1.27	22.14	<=33.01	Pass		
	2680		1	0	21.65	1.27	22.92	<=33.01	Pass	



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64QAM	2506	50	50	22.51	1.27	23.78	<=33.01	Pass	
			99	21.81	1.27	23.08	<=33.01	Pass	
			0	21.13	1.27	22.40	<=33.01	Pass	
		100	25	21.19	1.27	22.46	<=33.01	Pass	
			50	21.19	1.27	22.46	<=33.01	Pass	
	2593	1	0	20.82	1.27	22.09	<=33.01	Pass	
			50	21.43	1.27	22.70	<=33.01	Pass	
			99	21.08	1.27	22.35	<=33.01	Pass	
		50	0	19.99	1.27	21.26	<=33.01	Pass	
			25	20.32	1.27	21.59	<=33.01	Pass	
			50	20.21	1.27	21.48	<=33.01	Pass	
		100	0	20.29	1.27	21.56	<=33.01	Pass	
		2680	1	0	20.48	1.27	21.75	<=33.01	Pass
				50	20.95	1.27	22.22	<=33.01	Pass
	99			20.25	1.27	21.52	<=33.01	Pass	
50	0		19.75	1.27	21.02	<=33.01	Pass		
	25		19.81	1.27	21.08	<=33.01	Pass		
	50		19.89	1.27	21.16	<=33.01	Pass		
100	0	19.89	1.27	21.16	<=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	3.23	8.497	0.0034	-2.5 to 2.5	Pass
					3.80	0.358	0.0001	-2.5 to 2.5	Pass
					4.37	0.486	0.0002	-2.5 to 2.5	Pass
				-30	3.80	1.502	0.0006	-2.5 to 2.5	Pass
					-20	3.80	7.553	0.0030	-2.5 to 2.5
				-10	3.80	-0.443	-0.0002	-2.5 to 2.5	Pass
					0	3.80	0.443	0.0002	-2.5 to 2.5
				10	3.80	10.700	0.0043	-2.5 to 2.5	Pass
				30	3.80	2.232	0.0009	-2.5 to 2.5	Pass
				40	3.80	1.259	0.0005	-2.5 to 2.5	Pass
	50	3.80	10.200	0.0041	-2.5 to 2.5	Pass			
	2593	25	0	20	3.23	-0.215	-0.0001	-2.5 to 2.5	Pass
					3.80	-0.815	-0.0003	-2.5 to 2.5	Pass

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					4.37	-1.659	-0.0006	-2.5 to 2.5	Pass			
				-30	3.80	5.836	0.0023	-2.5 to 2.5	Pass			
				-20	3.80	0.887	0.0003	-2.5 to 2.5	Pass			
				-10	3.80	2.303	0.0009	-2.5 to 2.5	Pass			
				0	3.80	8.240	0.0032	-2.5 to 2.5	Pass			
				10	3.80	8.698	0.0034	-2.5 to 2.5	Pass			
				30	3.80	4.292	0.0017	-2.5 to 2.5	Pass			
				40	3.80	1.645	0.0006	-2.5 to 2.5	Pass			
				50	3.80	0.343	0.0001	-2.5 to 2.5	Pass			
				2687.5	25	0	20	3.23	4.334	0.0016	-2.5 to 2.5	Pass
								3.80	11.673	0.0043	-2.5 to 2.5	Pass
								4.37	13.690	0.0051	-2.5 to 2.5	Pass
							-30	3.80	11.330	0.0042	-2.5 to 2.5	Pass
							-20	3.80	10.800	0.0040	-2.5 to 2.5	Pass
							-10	3.80	3.104	0.0012	-2.5 to 2.5	Pass
							0	3.80	0.629	0.0002	-2.5 to 2.5	Pass
							10	3.80	-1.159	-0.0004	-2.5 to 2.5	Pass
30	3.80	2.289	0.0009				-2.5 to 2.5	Pass				
40	3.80	3.619	0.0013				-2.5 to 2.5	Pass				
50	3.80	-0.587	-0.0002	-2.5 to 2.5	Pass							
16QAM	2498.5	25	0	20	3.23	7.739	0.0031	-2.5 to 2.5	Pass			
					3.80	8.740	0.0035	-2.5 to 2.5	Pass			
					4.37	0.772	0.0003	-2.5 to 2.5	Pass			
				-30	3.80	8.755	0.0035	-2.5 to 2.5	Pass			
				-20	3.80	8.268	0.0033	-2.5 to 2.5	Pass			
				-10	3.80	-0.272	-0.0001	-2.5 to 2.5	Pass			
				0	3.80	8.755	0.0035	-2.5 to 2.5	Pass			
				10	3.80	9.584	0.0038	-2.5 to 2.5	Pass			
				30	3.80	10.600	0.0042	-2.5 to 2.5	Pass			
				40	3.80	0.801	0.0003	-2.5 to 2.5	Pass			
	50	3.80	2.031	0.0008	-2.5 to 2.5	Pass						
	2593	25	0	20	3.23	6.151	0.0024	-2.5 to 2.5	Pass			
					3.80	6.723	0.0026	-2.5 to 2.5	Pass			
					4.37	1.431	0.0006	-2.5 to 2.5	Pass			
				-30	3.80	7.796	0.0030	-2.5 to 2.5	Pass			
				-20	3.80	10.586	0.0041	-2.5 to 2.5	Pass			
				-10	3.80	9.084	0.0035	-2.5 to 2.5	Pass			
0				3.80	0.501	0.0002	-2.5 to 2.5	Pass				
10	3.80	7.110	0.0027	-2.5 to 2.5	Pass							
30	3.80	-0.744	-0.0003	-2.5 to 2.5	Pass							
40	3.80	0.172	0.0001	-2.5 to 2.5	Pass							
50	3.80	7.410	0.0029	-2.5 to 2.5	Pass							
2687.5	25	0	20	3.23	8.640	0.0032	-2.5 to 2.5	Pass				
				3.80	9.670	0.0036	-2.5 to 2.5	Pass				
				4.37	-0.644	-0.0002	-2.5 to 2.5	Pass				
			-30	3.80	13.475	0.0050	-2.5 to 2.5	Pass				
			-20	3.80	3.719	0.0014	-2.5 to 2.5	Pass				
			-10	3.80	3.004	0.0011	-2.5 to 2.5	Pass				
			0	3.80	1.688	0.0006	-2.5 to 2.5	Pass				
			10	3.80	9.799	0.0036	-2.5 to 2.5	Pass				
			30	3.80	3.190	0.0012	-2.5 to 2.5	Pass				
			40	3.80	11.086	0.0041	-2.5 to 2.5	Pass				
50	3.80	8.740	0.0033	-2.5 to 2.5	Pass							
64QAM	2498.5	25	0	20	3.23	-14.877	-0.0060	-2.5 to 2.5	Pass			

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					3.80	-14.548	-0.0058	-2.5 to 2.5	Pass		
					4.37	-14.348	-0.0057	-2.5 to 2.5	Pass		
				-30	3.80	-13.461	-0.0054	-2.5 to 2.5	Pass		
				-20	3.80	-13.318	-0.0053	-2.5 to 2.5	Pass		
				-10	3.80	-16.580	-0.0066	-2.5 to 2.5	Pass		
				0	3.80	-18.225	-0.0073	-2.5 to 2.5	Pass		
				10	3.80	-17.796	-0.0071	-2.5 to 2.5	Pass		
				30	3.80	-14.577	-0.0058	-2.5 to 2.5	Pass		
				40	3.80	-13.204	-0.0053	-2.5 to 2.5	Pass		
	50	3.80	-15.492	-0.0062	-2.5 to 2.5	Pass					
	2593	25	0		20	3.23	-22.373	-0.0086	-2.5 to 2.5	Pass	
						3.80	-19.240	-0.0074	-2.5 to 2.5	Pass	
						4.37	-24.791	-0.0096	-2.5 to 2.5	Pass	
					-30	3.80	-23.832	-0.0092	-2.5 to 2.5	Pass	
						-20	3.80	-23.031	-0.0089	-2.5 to 2.5	Pass
						-10	3.80	-25.277	-0.0097	-2.5 to 2.5	Pass
					0	3.80	-29.926	-0.0115	-2.5 to 2.5	Pass	
						10	3.80	-27.080	-0.0104	-2.5 to 2.5	Pass
30						3.80	-31.400	-0.0121	-2.5 to 2.5	Pass	
40	3.80	-28.281	-0.0109	-2.5 to 2.5	Pass						
	50	3.80	-25.620	-0.0099	-2.5 to 2.5	Pass					
	2687.5	25	0	20	3.23	-9.341	-0.0035	-2.5 to 2.5	Pass		
3.80					-6.909	-0.0026	-2.5 to 2.5	Pass			
4.37					-3.505	-0.0013	-2.5 to 2.5	Pass			
-30				3.80	-1.602	-0.0006	-2.5 to 2.5	Pass			
				-20	3.80	-1.431	-0.0005	-2.5 to 2.5	Pass		
				-10	3.80	-2.918	-0.0011	-2.5 to 2.5	Pass		
0				3.80	-2.332	-0.0009	-2.5 to 2.5	Pass			
				10	3.80	0.143	0.0001	-2.5 to 2.5	Pass		
				30	3.80	-3.633	-0.0014	-2.5 to 2.5	Pass		
40	3.80	-10.285	-0.0038	-2.5 to 2.5	Pass						
	50	3.80	-4.034	-0.0015	-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	3.23	13.103	0.0052	-2.5 to 2.5	Pass	
					3.80	4.363	0.0017	-2.5 to 2.5	Pass	
					4.37	11.501	0.0046	-2.5 to 2.5	Pass	
				-30	3.80	11.115	0.0044	-2.5 to 2.5	Pass	
					-20	3.80	10.815	0.0043	-2.5 to 2.5	Pass
					-10	3.80	12.202	0.0049	-2.5 to 2.5	Pass
				0	3.80	15.292	0.0061	-2.5 to 2.5	Pass	
					10	3.80	3.219	0.0013	-2.5 to 2.5	Pass
					30	3.80	11.745	0.0047	-2.5 to 2.5	Pass
				40	3.80	4.663	0.0019	-2.5 to 2.5	Pass	
					50	3.80	10.185	0.0041	-2.5 to 2.5	Pass
	2593	50	0		20	3.23	-0.243	-0.0001	-2.5 to 2.5	Pass



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					3.80	9.184	0.0035	-2.5 to 2.5	Pass	
					4.37	9.627	0.0037	-2.5 to 2.5	Pass	
				-30	3.80	2.604	0.0010	-2.5 to 2.5	Pass	
				-20	3.80	2.003	0.0008	-2.5 to 2.5	Pass	
				-10	3.80	7.396	0.0029	-2.5 to 2.5	Pass	
				0	3.80	6.952	0.0027	-2.5 to 2.5	Pass	
				10	3.80	6.380	0.0025	-2.5 to 2.5	Pass	
				30	3.80	9.942	0.0038	-2.5 to 2.5	Pass	
				40	3.80	10.729	0.0041	-2.5 to 2.5	Pass	
				50	3.80	9.327	0.0036	-2.5 to 2.5	Pass	
	2685	50	0		20	3.23	8.869	0.0033	-2.5 to 2.5	Pass
						3.80	7.811	0.0029	-2.5 to 2.5	Pass
						4.37	4.821	0.0018	-2.5 to 2.5	Pass
					-30	3.80	-3.362	-0.0013	-2.5 to 2.5	Pass
					-20	3.80	-5.035	-0.0019	-2.5 to 2.5	Pass
					-10	3.80	3.662	0.0014	-2.5 to 2.5	Pass
					0	3.80	6.251	0.0023	-2.5 to 2.5	Pass
					10	3.80	0.687	0.0003	-2.5 to 2.5	Pass
					30	3.80	4.420	0.0016	-2.5 to 2.5	Pass
					40	3.80	8.597	0.0032	-2.5 to 2.5	Pass
50	3.80	-2.818	-0.0010	-2.5 to 2.5	Pass					
16QAM	2501	50	0	20	3.23	11.544	0.0046	-2.5 to 2.5	Pass	
					3.80	14.505	0.0058	-2.5 to 2.5	Pass	
					4.37	6.008	0.0024	-2.5 to 2.5	Pass	
				-30	3.80	1.059	0.0004	-2.5 to 2.5	Pass	
				-20	3.80	2.861	0.0011	-2.5 to 2.5	Pass	
				-10	3.80	4.849	0.0019	-2.5 to 2.5	Pass	
				0	3.80	4.077	0.0016	-2.5 to 2.5	Pass	
				10	3.80	7.253	0.0029	-2.5 to 2.5	Pass	
				30	3.80	9.999	0.0040	-2.5 to 2.5	Pass	
				40	3.80	-0.758	-0.0003	-2.5 to 2.5	Pass	
	50	3.80	10.729	0.0043	-2.5 to 2.5	Pass				
	2593	50	0		20	3.23	4.549	0.0018	-2.5 to 2.5	Pass
						3.80	2.275	0.0009	-2.5 to 2.5	Pass
						4.37	-1.287	-0.0005	-2.5 to 2.5	Pass
					-30	3.80	0.844	0.0003	-2.5 to 2.5	Pass
					-20	3.80	6.995	0.0027	-2.5 to 2.5	Pass
					-10	3.80	3.076	0.0012	-2.5 to 2.5	Pass
					0	3.80	2.961	0.0011	-2.5 to 2.5	Pass
					10	3.80	9.241	0.0036	-2.5 to 2.5	Pass
					30	3.80	10.200	0.0039	-2.5 to 2.5	Pass
40					3.80	0.029	0.0000	-2.5 to 2.5	Pass	
50	3.80	7.467	0.0029	-2.5 to 2.5	Pass					
2685	50	0		20	3.23	2.804	0.0010	-2.5 to 2.5	Pass	
					3.80	0.515	0.0002	-2.5 to 2.5	Pass	
					4.37	-4.406	-0.0016	-2.5 to 2.5	Pass	
				-30	3.80	-2.890	-0.0011	-2.5 to 2.5	Pass	
				-20	3.80	-4.764	-0.0018	-2.5 to 2.5	Pass	
				-10	3.80	2.546	0.0009	-2.5 to 2.5	Pass	
				0	3.80	-3.219	-0.0012	-2.5 to 2.5	Pass	
				10	3.80	-6.394	-0.0024	-2.5 to 2.5	Pass	
				30	3.80	-5.078	-0.0019	-2.5 to 2.5	Pass	
				40	3.80	-4.334	-0.0016	-2.5 to 2.5	Pass	
50	3.80	-3.204	-0.0012	-2.5 to 2.5	Pass					

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64QAM	2501	50	0	20	3.23	0.730	0.0003	-2.5 to 2.5	Pass	
					3.80	-5.836	-0.0023	-2.5 to 2.5	Pass	
					4.37	-0.601	-0.0002	-2.5 to 2.5	Pass	
				-30	3.80	-2.918	-0.0012	-2.5 to 2.5	Pass	
					-20	3.80	-11.272	-0.0045	-2.5 to 2.5	Pass
						-10	3.80	-5.493	-0.0022	-2.5 to 2.5
				0	3.80	-0.401	-0.0002	-2.5 to 2.5	Pass	
					10	3.80	-0.458	-0.0002	-2.5 to 2.5	Pass
					30	3.80	-6.680	-0.0027	-2.5 to 2.5	Pass
	40	3.80	-4.177		-0.0017	-2.5 to 2.5	Pass			
	50	3.80	-11.015		-0.0044	-2.5 to 2.5	Pass			
	2593	50	0	20	3.23	-6.080	-0.0023	-2.5 to 2.5	Pass	
					3.80	-2.933	-0.0011	-2.5 to 2.5	Pass	
					4.37	-1.903	-0.0007	-2.5 to 2.5	Pass	
				-30	3.80	-3.662	-0.0014	-2.5 to 2.5	Pass	
					-20	3.80	-4.792	-0.0018	-2.5 to 2.5	Pass
						-10	3.80	-7.811	-0.0030	-2.5 to 2.5
				0	3.80	-3.719	-0.0014	-2.5 to 2.5	Pass	
					10	3.80	0.000	0.0000	-2.5 to 2.5	Pass
					30	3.80	-7.310	-0.0028	-2.5 to 2.5	Pass
	40	3.80	-1.101		-0.0004	-2.5 to 2.5	Pass			
	50	3.80	-7.496		-0.0029	-2.5 to 2.5	Pass			
	2685	50	0	20	3.23	-4.592	-0.0017	-2.5 to 2.5	Pass	
					3.80	-6.151	-0.0023	-2.5 to 2.5	Pass	
					4.37	-5.736	-0.0021	-2.5 to 2.5	Pass	
				-30	3.80	-16.522	-0.0062	-2.5 to 2.5	Pass	
					-20	3.80	-3.848	-0.0014	-2.5 to 2.5	Pass
-10						3.80	-1.988	-0.0007	-2.5 to 2.5	Pass
0				3.80	-13.690	-0.0051	-2.5 to 2.5	Pass		
				10	3.80	-6.380	-0.0024	-2.5 to 2.5	Pass	
				30	3.80	-11.573	-0.0043	-2.5 to 2.5	Pass	
	40	3.80	-8.211	-0.0031	-2.5 to 2.5	Pass				
	50	3.80	-7.839	-0.0029	-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		
QPSK	2503.5	75	0	20	3.23	-3.433	-0.0014	-2.5 to 2.5	Pass	
					3.80	-2.117	-0.0008	-2.5 to 2.5	Pass	
					4.37	-3.304	-0.0013	-2.5 to 2.5	Pass	
				-30	3.80	-0.257	-0.0001	-2.5 to 2.5	Pass	
					-20	3.80	8.111	0.0032	-2.5 to 2.5	Pass
						-10	3.80	5.965	0.0024	-2.5 to 2.5
				0	3.80	7.596	0.0030	-2.5 to 2.5	Pass	
					10	3.80	-0.758	-0.0003	-2.5 to 2.5	Pass
					30	3.80	7.796	0.0031	-2.5 to 2.5	Pass
					40	3.80	6.194	0.0025	-2.5 to 2.5	Pass
					50	3.80	-1.917	-0.0008	-2.5 to 2.5	Pass



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	2593	75	0	20	3.23	9.012	0.0035	-2.5 to 2.5	Pass	
					3.80	7.424	0.0029	-2.5 to 2.5	Pass	
					4.37	-0.930	-0.0004	-2.5 to 2.5	Pass	
				-30	3.80	8.669	0.0033	-2.5 to 2.5	Pass	
					-20	3.80	10.042	0.0039	-2.5 to 2.5	Pass
					-10	3.80	9.212	0.0036	-2.5 to 2.5	Pass
				0	3.80	7.038	0.0027	-2.5 to 2.5	Pass	
					10	3.80	9.241	0.0036	-2.5 to 2.5	Pass
					30	3.80	8.712	0.0034	-2.5 to 2.5	Pass
	40	3.80	11.916	0.0046	-2.5 to 2.5	Pass				
		50	3.80	0.558	0.0002	-2.5 to 2.5	Pass			
		2682.5	75	0	20	3.23	1.159	0.0004	-2.5 to 2.5	Pass
	3.80					0.515	0.0002	-2.5 to 2.5	Pass	
	4.37					1.531	0.0006	-2.5 to 2.5	Pass	
	-30				3.80	5.221	0.0019	-2.5 to 2.5	Pass	
					-20	3.80	12.031	0.0045	-2.5 to 2.5	Pass
					-10	3.80	1.373	0.0005	-2.5 to 2.5	Pass
	0				3.80	7.253	0.0027	-2.5 to 2.5	Pass	
10					3.80	8.869	0.0033	-2.5 to 2.5	Pass	
30					3.80	4.921	0.0018	-2.5 to 2.5	Pass	
40	3.80	2.303	0.0009	-2.5 to 2.5	Pass					
	50	3.80	3.576	0.0013	-2.5 to 2.5	Pass				
	16QAM	2503.5	75	0	20	3.23	8.283	0.0033	-2.5 to 2.5	Pass
3.80						-2.704	-0.0011	-2.5 to 2.5	Pass	
4.37						6.866	0.0027	-2.5 to 2.5	Pass	
-30					3.80	-2.217	-0.0009	-2.5 to 2.5	Pass	
					-20	3.80	10.657	0.0043	-2.5 to 2.5	Pass
					-10	3.80	-3.004	-0.0012	-2.5 to 2.5	Pass
0					3.80	-3.176	-0.0013	-2.5 to 2.5	Pass	
					10	3.80	-0.143	-0.0001	-2.5 to 2.5	Pass
					30	3.80	7.854	0.0031	-2.5 to 2.5	Pass
40		3.80	3.891	0.0016	-2.5 to 2.5	Pass				
		50	3.80	-3.605	-0.0014	-2.5 to 2.5	Pass			
		2593	75	0	20	3.23	11.101	0.0043	-2.5 to 2.5	Pass
3.80						8.640	0.0033	-2.5 to 2.5	Pass	
4.37						11.215	0.0043	-2.5 to 2.5	Pass	
-30					3.80	9.842	0.0038	-2.5 to 2.5	Pass	
					-20	3.80	0.029	0.0000	-2.5 to 2.5	Pass
					-10	3.80	8.340	0.0032	-2.5 to 2.5	Pass
0					3.80	1.359	0.0005	-2.5 to 2.5	Pass	
	10				3.80	2.818	0.0011	-2.5 to 2.5	Pass	
	30				3.80	10.929	0.0042	-2.5 to 2.5	Pass	
40	3.80	9.398	0.0036	-2.5 to 2.5	Pass					
	50	3.80	12.846	0.0050	-2.5 to 2.5	Pass				
	2682.5	75	0	20	3.23	5.293	0.0020	-2.5 to 2.5	Pass	
3.80					2.217	0.0008	-2.5 to 2.5	Pass		
4.37					3.576	0.0013	-2.5 to 2.5	Pass		
-30				3.80	1.788	0.0007	-2.5 to 2.5	Pass		
				-20	3.80	3.219	0.0012	-2.5 to 2.5	Pass	
				-10	3.80	3.533	0.0013	-2.5 to 2.5	Pass	
0				3.80	5.064	0.0019	-2.5 to 2.5	Pass		
				10	3.80	1.588	0.0006	-2.5 to 2.5	Pass	
				30	3.80	10.500	0.0039	-2.5 to 2.5	Pass	
40	3.80	11.029	0.0041	-2.5 to 2.5	Pass					

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64QAM	2503.5	75	0	50	3.80	12.102	0.0045	-2.5 to 2.5	Pass
				20	3.23	-5.422	-0.0022	-2.5 to 2.5	Pass
					3.80	-3.505	-0.0014	-2.5 to 2.5	Pass
					4.37	-2.675	-0.0011	-2.5 to 2.5	Pass
				-30	3.80	-5.479	-0.0022	-2.5 to 2.5	Pass
				-20	3.80	-12.975	-0.0052	-2.5 to 2.5	Pass
				-10	3.80	-6.180	-0.0025	-2.5 to 2.5	Pass
				0	3.80	-6.981	-0.0028	-2.5 to 2.5	Pass
				10	3.80	-8.683	-0.0035	-2.5 to 2.5	Pass
				30	3.80	-1.917	-0.0008	-2.5 to 2.5	Pass
	40	3.80	-8.225	-0.0033	-2.5 to 2.5	Pass			
	50	3.80	-4.363	-0.0017	-2.5 to 2.5	Pass			
	2593	75	0	20	3.23	-10.986	-0.0042	-2.5 to 2.5	Pass
					3.80	-7.982	-0.0031	-2.5 to 2.5	Pass
					4.37	-1.259	-0.0005	-2.5 to 2.5	Pass
				-30	3.80	-11.358	-0.0044	-2.5 to 2.5	Pass
				-20	3.80	-6.094	-0.0024	-2.5 to 2.5	Pass
				-10	3.80	-3.991	-0.0015	-2.5 to 2.5	Pass
				0	3.80	-11.458	-0.0044	-2.5 to 2.5	Pass
				10	3.80	-6.251	-0.0024	-2.5 to 2.5	Pass
				30	3.80	-1.917	-0.0007	-2.5 to 2.5	Pass
				40	3.80	-4.735	-0.0018	-2.5 to 2.5	Pass
	50	3.80	-4.821	-0.0019	-2.5 to 2.5	Pass			
	2682.5	75	0	20	3.23	-7.811	-0.0029	-2.5 to 2.5	Pass
					3.80	-12.503	-0.0047	-2.5 to 2.5	Pass
					4.37	-6.208	-0.0023	-2.5 to 2.5	Pass
				-30	3.80	-12.259	-0.0046	-2.5 to 2.5	Pass
				-20	3.80	-10.285	-0.0038	-2.5 to 2.5	Pass
				-10	3.80	-9.327	-0.0035	-2.5 to 2.5	Pass
				0	3.80	-12.360	-0.0046	-2.5 to 2.5	Pass
10				3.80	-14.977	-0.0056	-2.5 to 2.5	Pass	
30				3.80	-1.373	-0.0005	-2.5 to 2.5	Pass	
40				3.80	-7.811	-0.0029	-2.5 to 2.5	Pass	
50	3.80	-13.418	-0.0050	-2.5 to 2.5	Pass				

2.4 B41_20MHz

2.4.1 Test Result

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	3.23	0.701	0.0003	-2.5 to 2.5	Pass
					3.80	12.345	0.0049	-2.5 to 2.5	Pass
					4.37	9.127	0.0036	-2.5 to 2.5	Pass
				-30	3.80	12.217	0.0049	-2.5 to 2.5	Pass
				-20	3.80	2.675	0.0011	-2.5 to 2.5	Pass
				-10	3.80	3.147	0.0013	-2.5 to 2.5	Pass
				0	3.80	10.214	0.0041	-2.5 to 2.5	Pass
				10	3.80	10.829	0.0043	-2.5 to 2.5	Pass
				30	3.80	1.302	0.0005	-2.5 to 2.5	Pass
				40	3.80	0.057	0.0000	-2.5 to 2.5	Pass



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	2593	100	0	50	3.80	10.629	0.0042	-2.5 to 2.5	Pass
				20	3.23	9.270	0.0036	-2.5 to 2.5	Pass
					3.80	-2.203	-0.0008	-2.5 to 2.5	Pass
					4.37	1.802	0.0007	-2.5 to 2.5	Pass
				-30	3.80	8.869	0.0034	-2.5 to 2.5	Pass
				-20	3.80	1.531	0.0006	-2.5 to 2.5	Pass
				-10	3.80	0.887	0.0003	-2.5 to 2.5	Pass
				0	3.80	13.561	0.0052	-2.5 to 2.5	Pass
				10	3.80	7.925	0.0031	-2.5 to 2.5	Pass
				30	3.80	1.030	0.0004	-2.5 to 2.5	Pass
	40	3.80	1.087	0.0004	-2.5 to 2.5	Pass			
	50	3.80	4.535	0.0017	-2.5 to 2.5	Pass			
	2680	100	0	20	3.23	2.174	0.0008	-2.5 to 2.5	Pass
					3.80	11.973	0.0045	-2.5 to 2.5	Pass
					4.37	13.304	0.0050	-2.5 to 2.5	Pass
				-30	3.80	10.128	0.0038	-2.5 to 2.5	Pass
				-20	3.80	12.531	0.0047	-2.5 to 2.5	Pass
				-10	3.80	2.117	0.0008	-2.5 to 2.5	Pass
				0	3.80	3.576	0.0013	-2.5 to 2.5	Pass
				10	3.80	9.828	0.0037	-2.5 to 2.5	Pass
30				3.80	8.955	0.0033	-2.5 to 2.5	Pass	
40				3.80	10.872	0.0041	-2.5 to 2.5	Pass	
50	3.80	9.699	0.0036	-2.5 to 2.5	Pass				
16QAM	2506	100	0	20	3.23	10.142	0.0040	-2.5 to 2.5	Pass
					3.80	2.346	0.0009	-2.5 to 2.5	Pass
					4.37	12.574	0.0050	-2.5 to 2.5	Pass
				-30	3.80	0.114	0.0000	-2.5 to 2.5	Pass
				-20	3.80	2.131	0.0009	-2.5 to 2.5	Pass
				-10	3.80	3.748	0.0015	-2.5 to 2.5	Pass
				0	3.80	3.076	0.0012	-2.5 to 2.5	Pass
				10	3.80	3.390	0.0014	-2.5 to 2.5	Pass
				30	3.80	8.454	0.0034	-2.5 to 2.5	Pass
				40	3.80	0.873	0.0003	-2.5 to 2.5	Pass
	50	3.80	6.995	0.0028	-2.5 to 2.5	Pass			
	2593	100	0	20	3.23	-1.588	-0.0006	-2.5 to 2.5	Pass
					3.80	11.988	0.0046	-2.5 to 2.5	Pass
					4.37	1.059	0.0004	-2.5 to 2.5	Pass
				-30	3.80	9.227	0.0036	-2.5 to 2.5	Pass
				-20	3.80	0.486	0.0002	-2.5 to 2.5	Pass
				-10	3.80	11.287	0.0044	-2.5 to 2.5	Pass
				0	3.80	8.569	0.0033	-2.5 to 2.5	Pass
				10	3.80	10.901	0.0042	-2.5 to 2.5	Pass
				30	3.80	9.871	0.0038	-2.5 to 2.5	Pass
40				3.80	0.315	0.0001	-2.5 to 2.5	Pass	
50	3.80	2.489	0.0010	-2.5 to 2.5	Pass				
2680	100	0	20	3.23	13.032	0.0049	-2.5 to 2.5	Pass	
				3.80	0.958	0.0004	-2.5 to 2.5	Pass	
				4.37	12.431	0.0046	-2.5 to 2.5	Pass	
			-30	3.80	-0.215	-0.0001	-2.5 to 2.5	Pass	
			-20	3.80	8.626	0.0032	-2.5 to 2.5	Pass	
			-10	3.80	2.589	0.0010	-2.5 to 2.5	Pass	
			0	3.80	2.789	0.0010	-2.5 to 2.5	Pass	
			10	3.80	2.890	0.0011	-2.5 to 2.5	Pass	
30	3.80	7.424	0.0028	-2.5 to 2.5	Pass				

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				40	3.80	1.287	0.0005	-2.5 to 2.5	Pass
				50	3.80	11.115	0.0041	-2.5 to 2.5	Pass
64QAM	2506	100	0	20	3.23	-8.984	-0.0036	-2.5 to 2.5	Pass
					3.80	-4.592	-0.0018	-2.5 to 2.5	Pass
					4.37	-4.535	-0.0018	-2.5 to 2.5	Pass
				-30	3.80	-9.127	-0.0036	-2.5 to 2.5	Pass
				-20	3.80	-11.115	-0.0044	-2.5 to 2.5	Pass
				-10	3.80	-4.106	-0.0016	-2.5 to 2.5	Pass
				0	3.80	-9.384	-0.0037	-2.5 to 2.5	Pass
				10	3.80	-13.490	-0.0054	-2.5 to 2.5	Pass
				30	3.80	-5.980	-0.0024	-2.5 to 2.5	Pass
				40	3.80	-7.396	-0.0030	-2.5 to 2.5	Pass
				50	3.80	-8.912	-0.0036	-2.5 to 2.5	Pass
				2593	100	0	20	3.23	-7.296
	3.80	-13.990	-0.0054					-2.5 to 2.5	Pass
	4.37	-4.849	-0.0019					-2.5 to 2.5	Pass
	-30	3.80	-3.233				-0.0012	-2.5 to 2.5	Pass
	-20	3.80	-5.150				-0.0020	-2.5 to 2.5	Pass
	-10	3.80	-6.151				-0.0024	-2.5 to 2.5	Pass
	0	3.80	-11.144				-0.0043	-2.5 to 2.5	Pass
	10	3.80	-5.708				-0.0022	-2.5 to 2.5	Pass
	30	3.80	-11.973				-0.0046	-2.5 to 2.5	Pass
	40	3.80	-8.240				-0.0032	-2.5 to 2.5	Pass
	50	3.80	-5.779				-0.0022	-2.5 to 2.5	Pass
	2680	100	0				20	3.23	-7.339
				3.80	-3.633	-0.0014		-2.5 to 2.5	Pass
				4.37	-9.770	-0.0036		-2.5 to 2.5	Pass
				-30	3.80	-7.768	-0.0029	-2.5 to 2.5	Pass
				-20	3.80	-4.592	-0.0017	-2.5 to 2.5	Pass
				-10	3.80	-6.337	-0.0024	-2.5 to 2.5	Pass
0				3.80	-10.886	-0.0041	-2.5 to 2.5	Pass	
10				3.80	-3.562	-0.0013	-2.5 to 2.5	Pass	
30				3.80	-9.542	-0.0036	-2.5 to 2.5	Pass	
40				3.80	-12.703	-0.0047	-2.5 to 2.5	Pass	
50				3.80	-12.188	-0.0045	-2.5 to 2.5	Pass	

3. Modulation Characteristics

3.1 B41_5MHz

3.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTV						
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



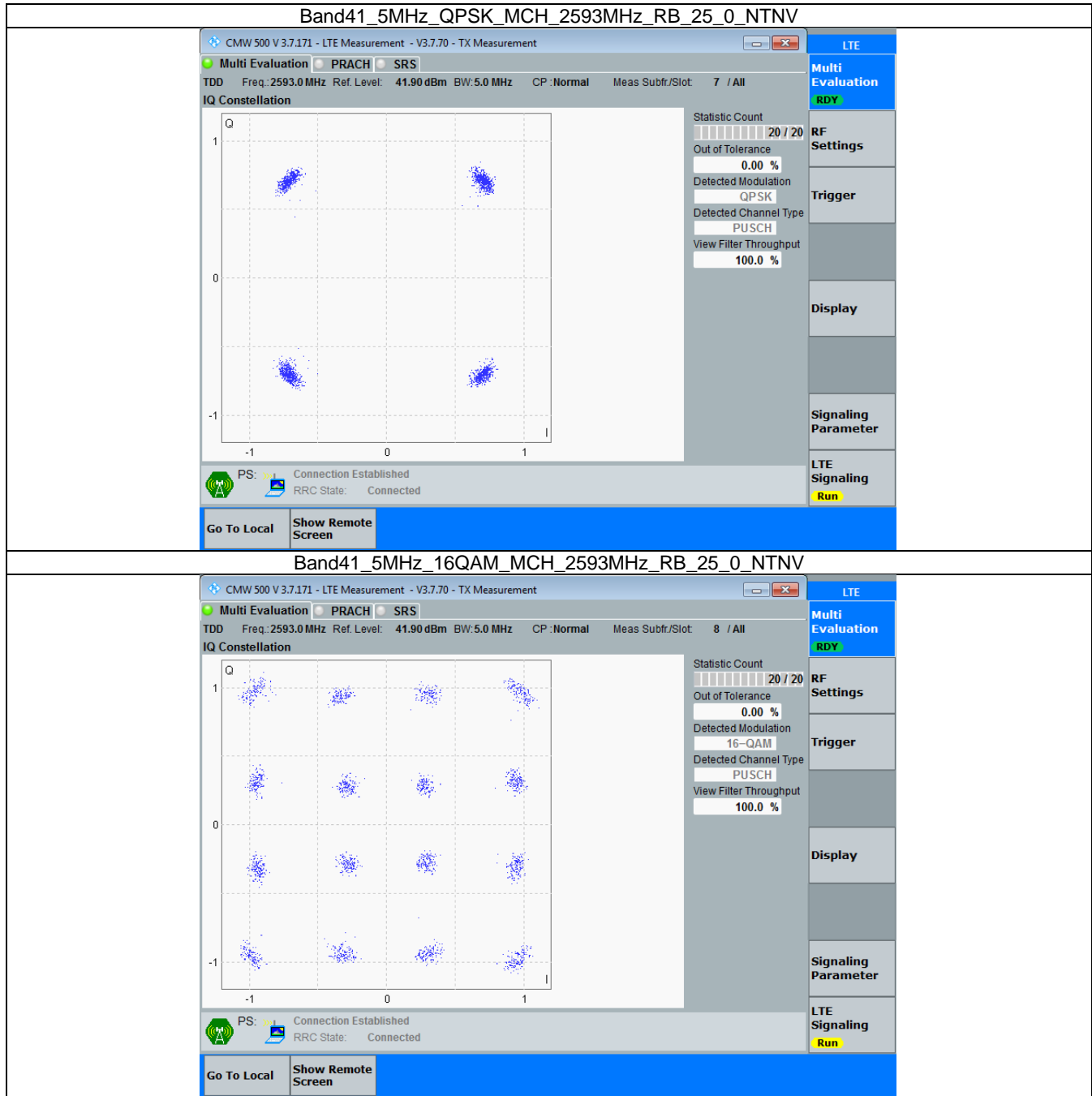
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3.1.2 Test Graph

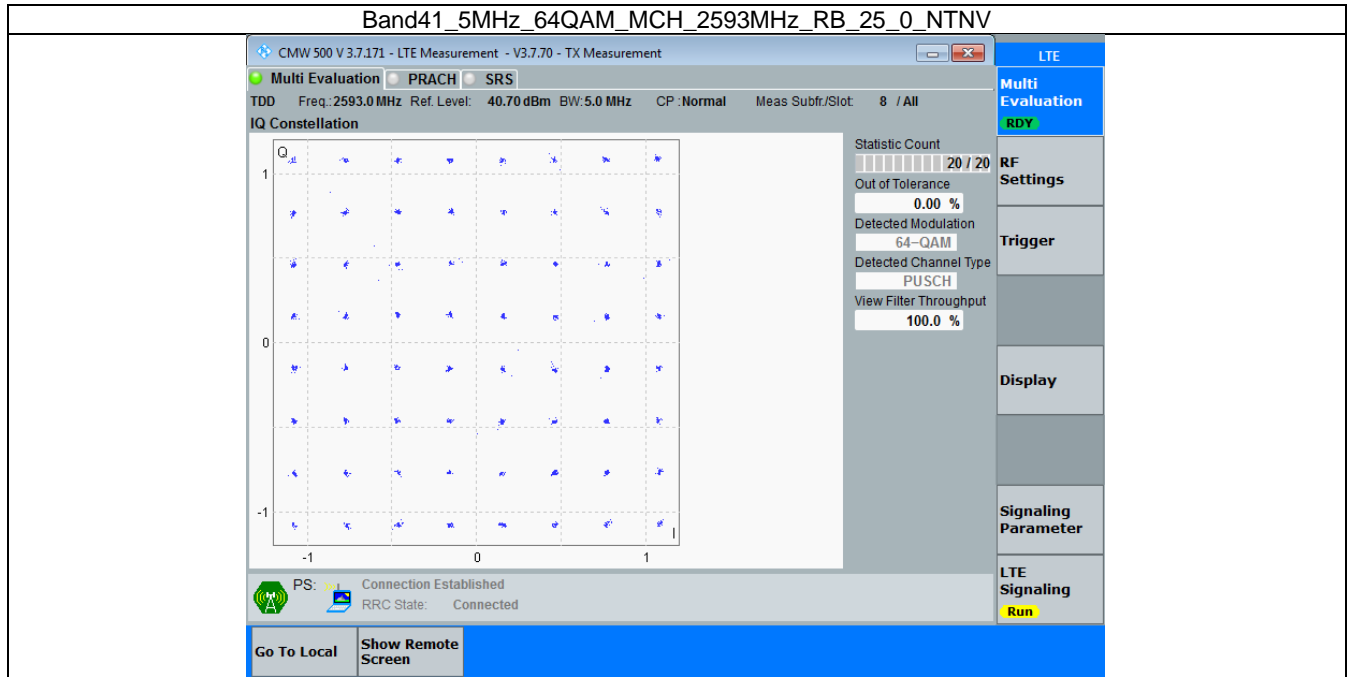


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3.2 B41_10MHz

3.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTV						
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

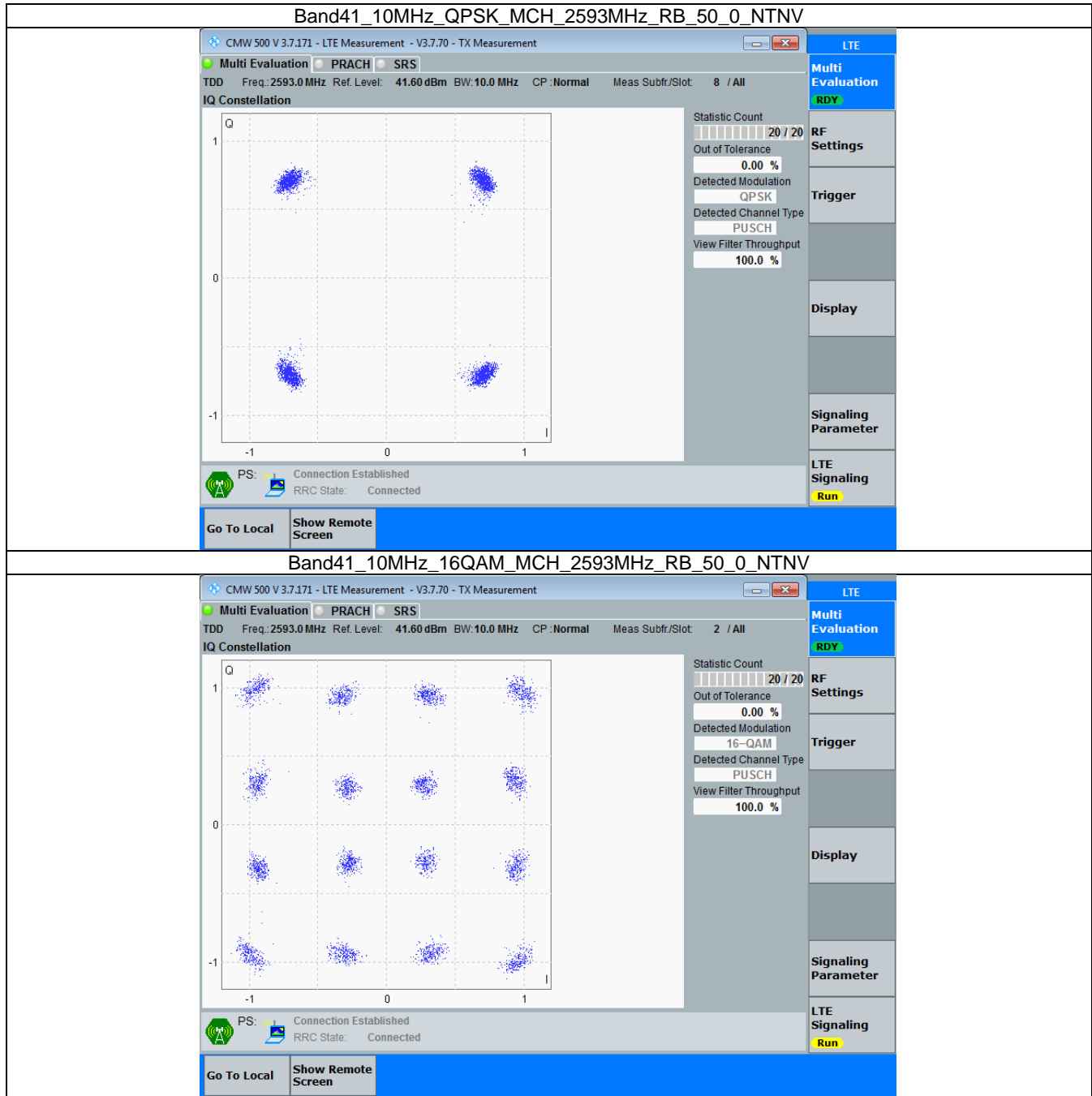


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3.2.2 Test Graph

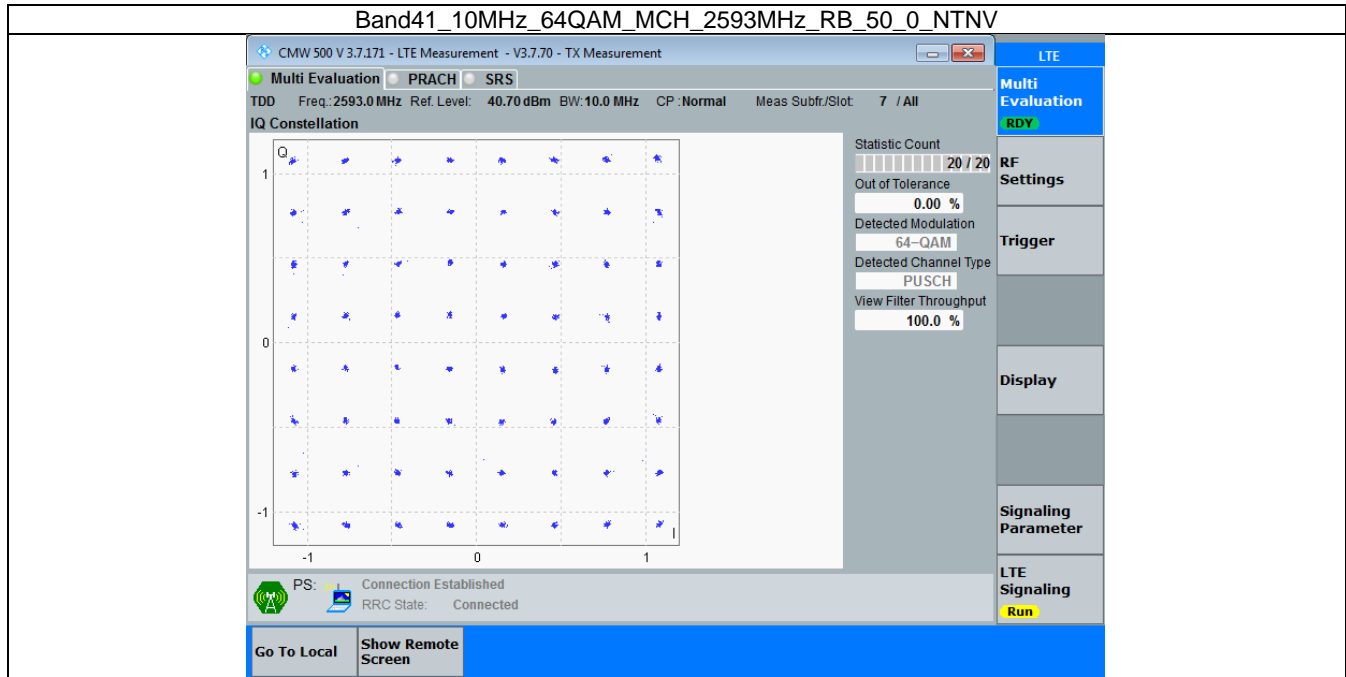


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3.3 B41_15MHz

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



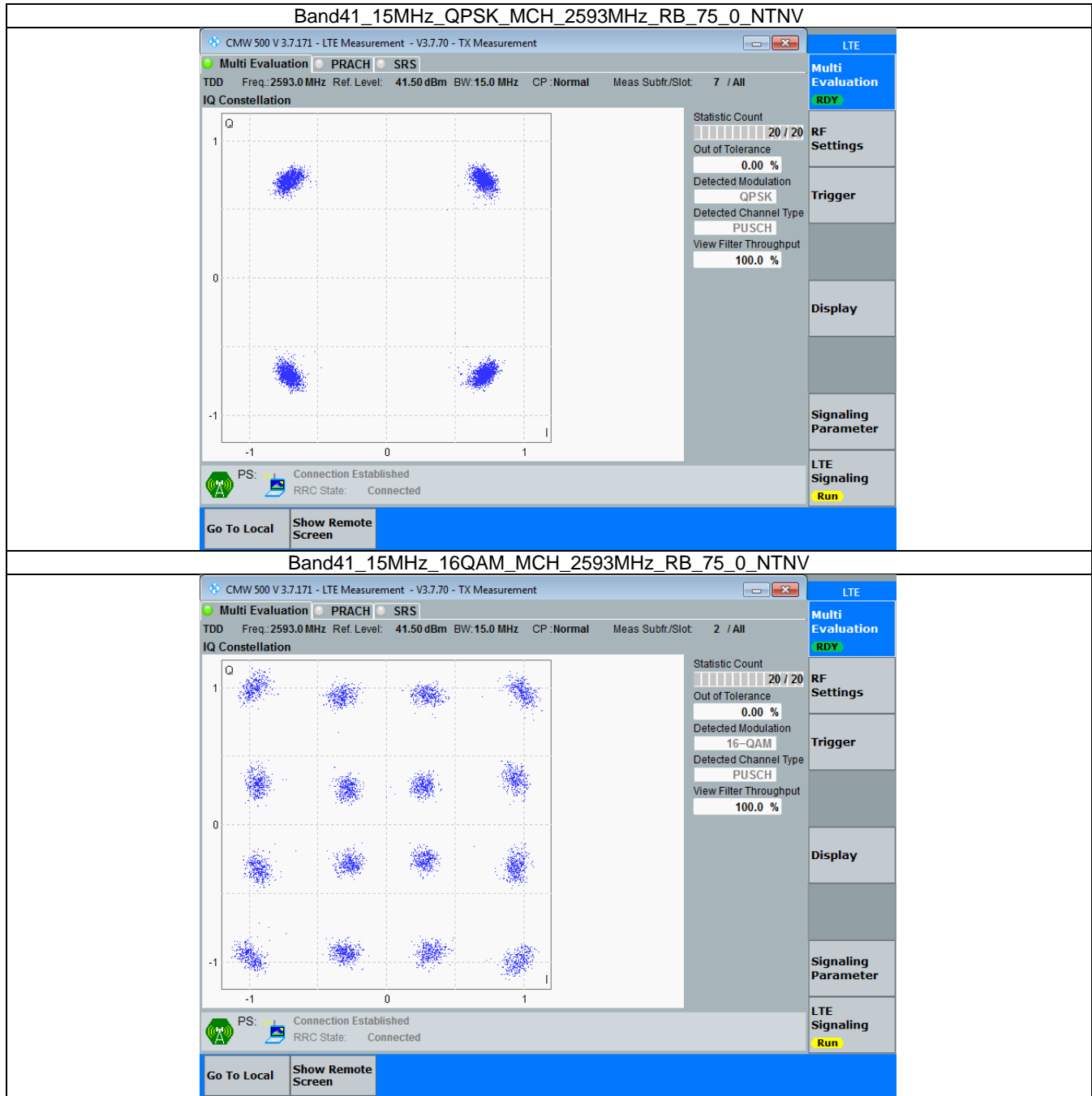
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3.3.2 Test Graph

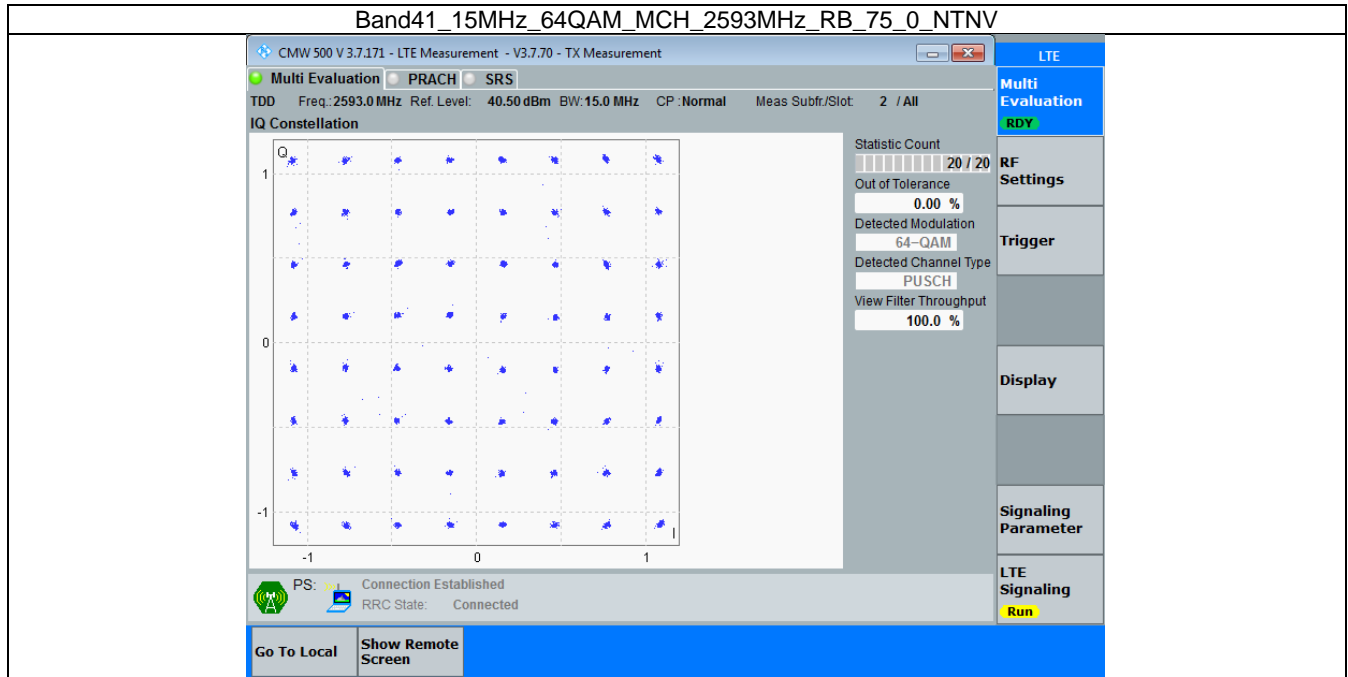


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3.4 B41_20MHz

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

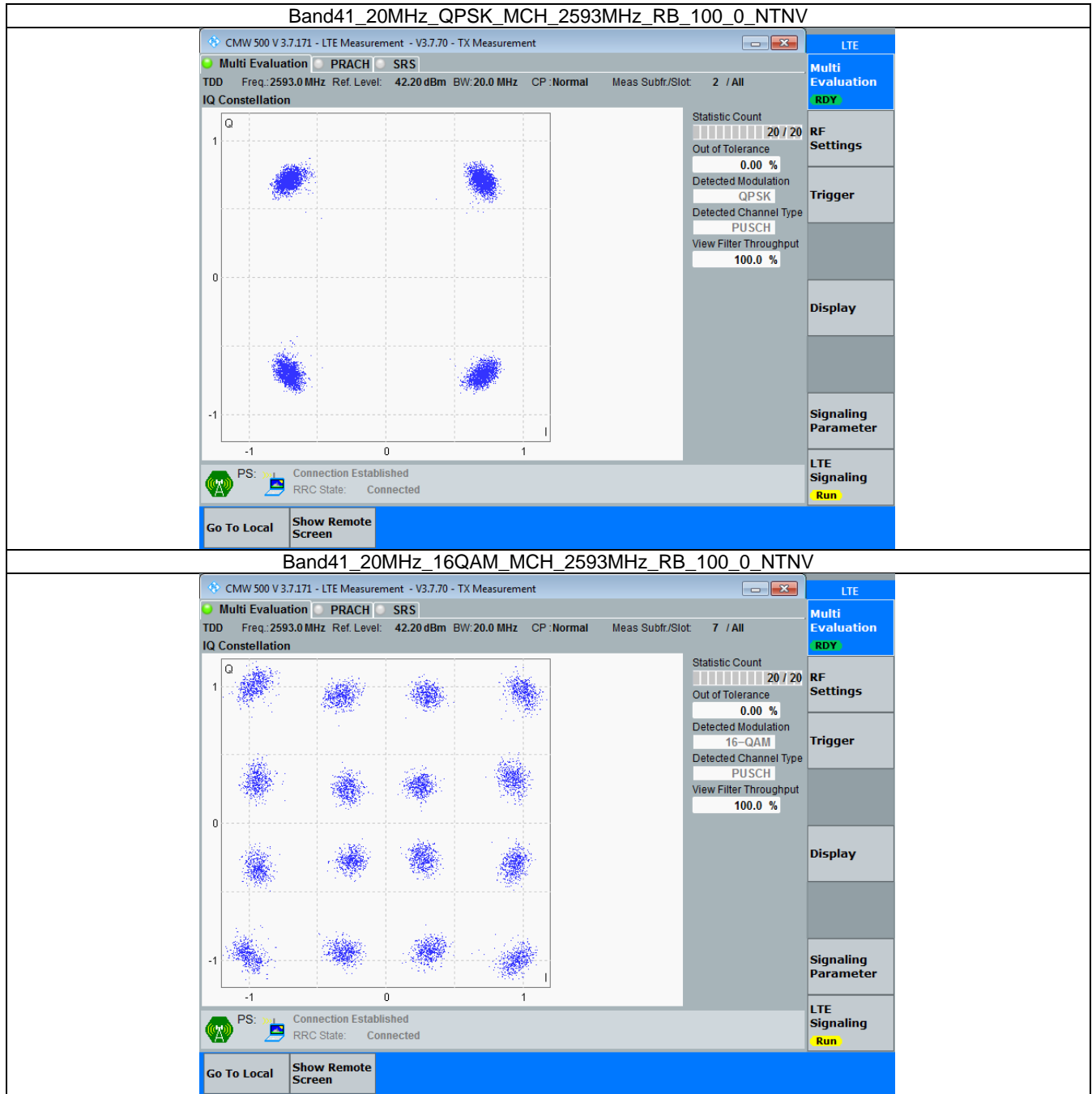


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3.4.2 Test Graph

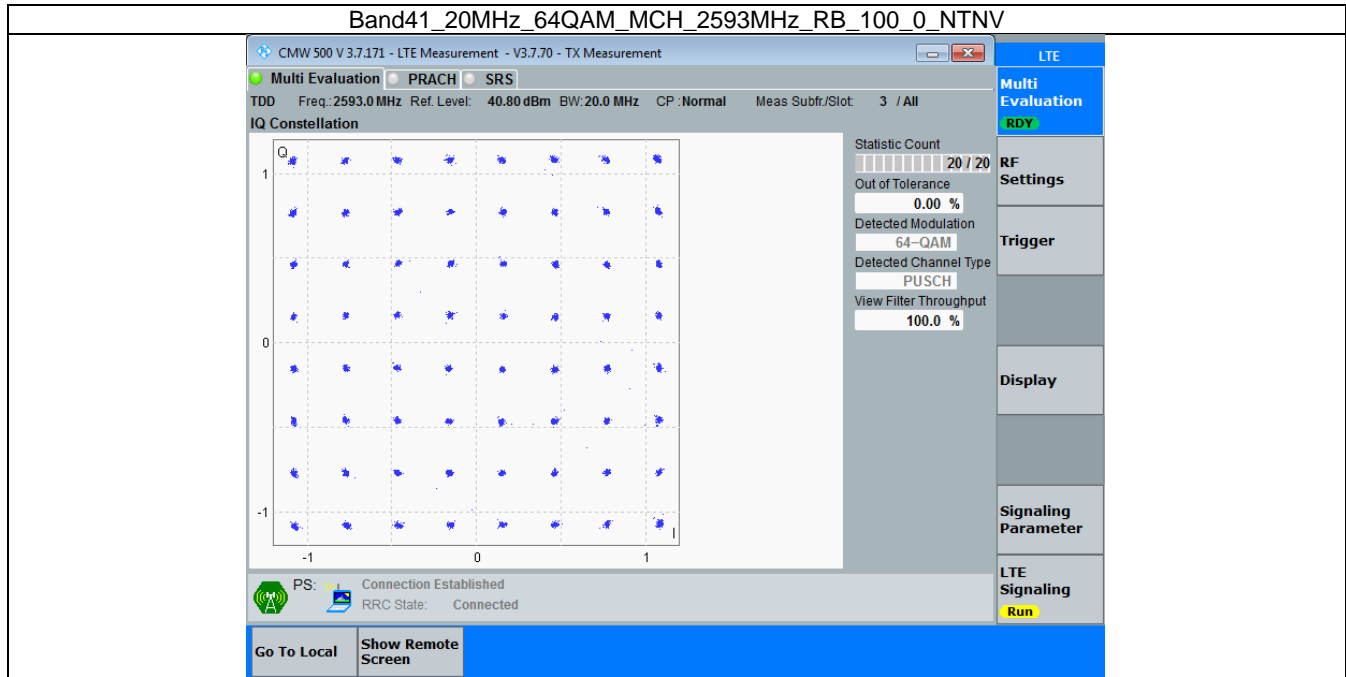


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4. 99% & 26dB Bandwidth

4.1 Band41_OBW

4.1.1 Test Result

Band: 41 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2498.5	25	0	4.537	Pass
		2593	25	0	4.542	Pass
		2687.5	25	0	4.538	Pass
	16QAM	2498.5	25	0	4.531	Pass
		2593	25	0	4.550	Pass
		2687.5	25	0	4.571	Pass
	64QAM	2498.5	25	0	4.540	Pass
		2593	25	0	4.543	Pass
		2687.5	25	0	4.536	Pass
10	QPSK	2501	50	0	9.054	Pass
		2593	50	0	9.037	Pass
		2685	50	0	9.055	Pass
	16QAM	2501	50	0	9.059	Pass
		2593	50	0	9.012	Pass
		2685	50	0	9.033	Pass
	64QAM	2501	50	0	9.083	Pass
		2593	50	0	9.054	Pass
		2685	50	0	9.062	Pass
15	QPSK	2503.5	75	0	13.583	Pass
		2593	75	0	13.524	Pass
		2682.5	75	0	13.513	Pass
	16QAM	2503.5	75	0	13.623	Pass
		2593	75	0	13.568	Pass
		2682.5	75	0	13.594	Pass
	64QAM	2503.5	75	0	13.559	Pass
		2593	75	0	13.576	Pass
		2682.5	75	0	13.601	Pass
20	QPSK	2506	100	0	18.104	Pass
		2593	100	0	18.023	Pass
		2680	100	0	18.040	Pass
	16QAM	2506	100	0	18.029	Pass
		2593	100	0	18.035	Pass
		2680	100	0	18.040	Pass
	64QAM	2506	100	0	18.062	Pass
		2593	100	0	18.085	Pass
		2680	100	0	18.123	Pass



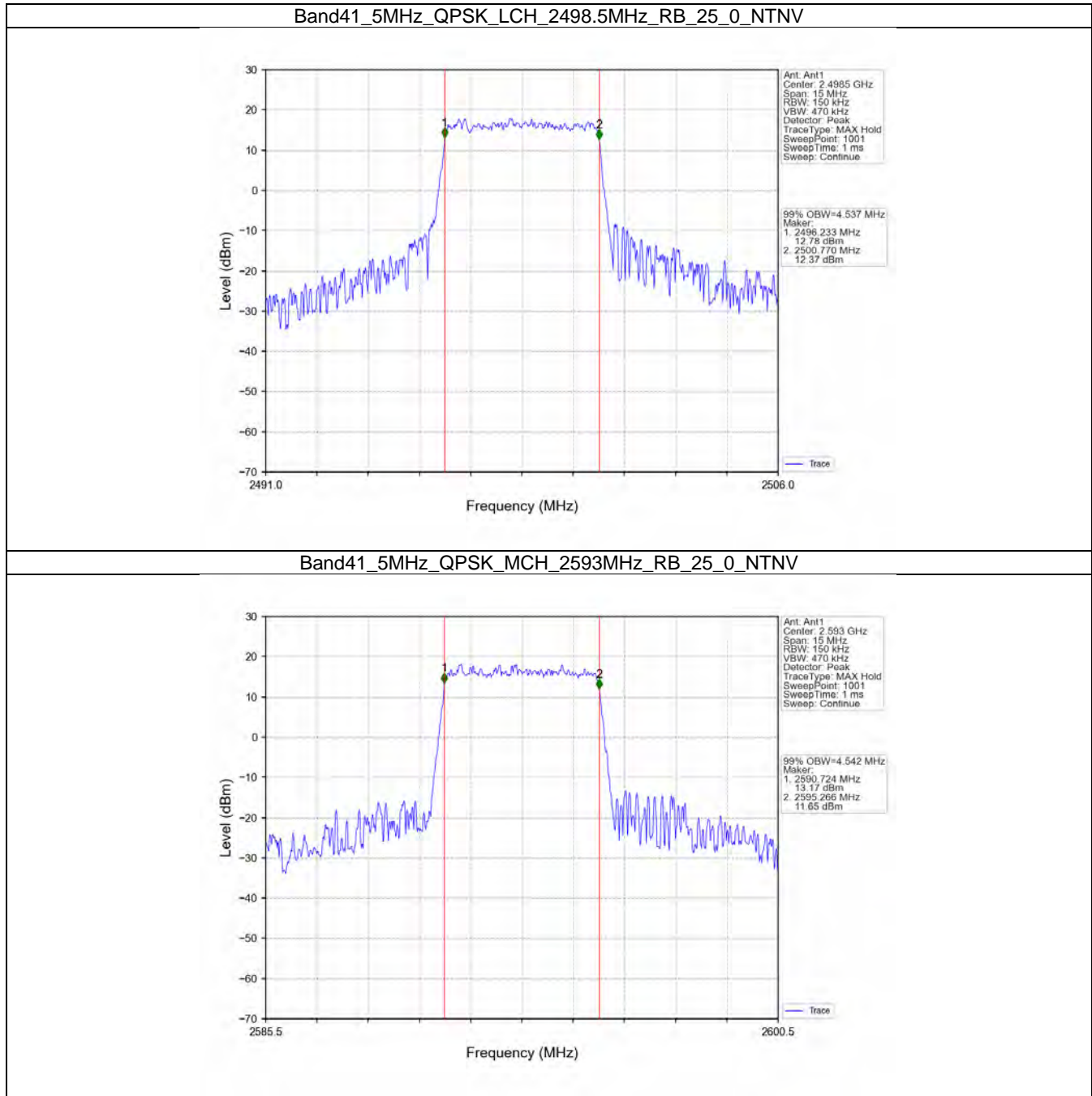
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4.1.2 Test Graph



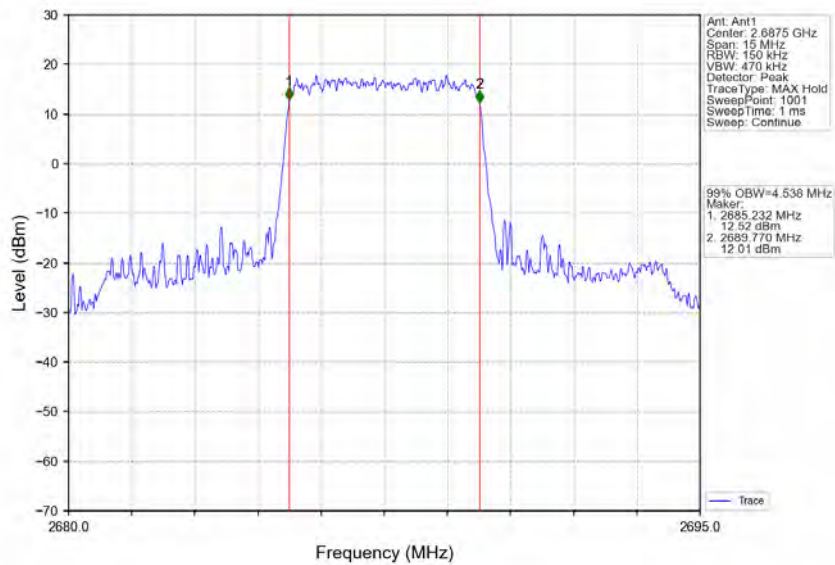
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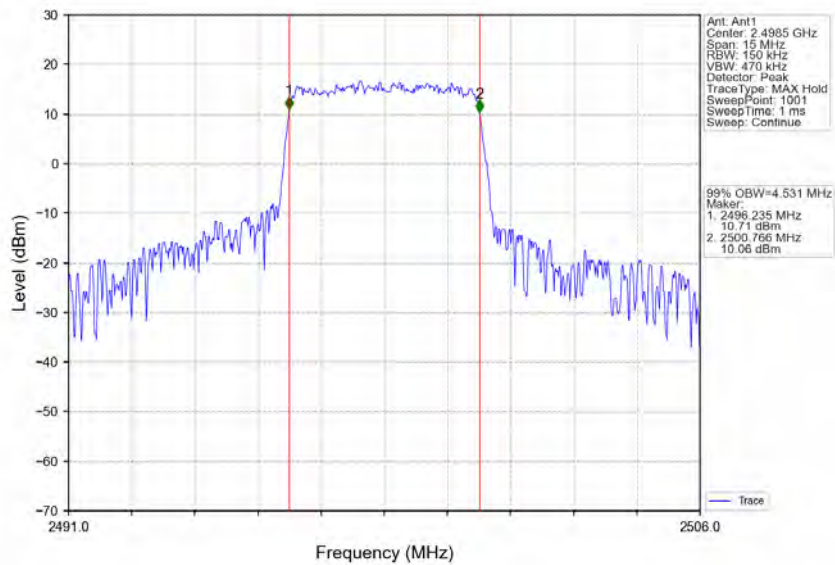
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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV



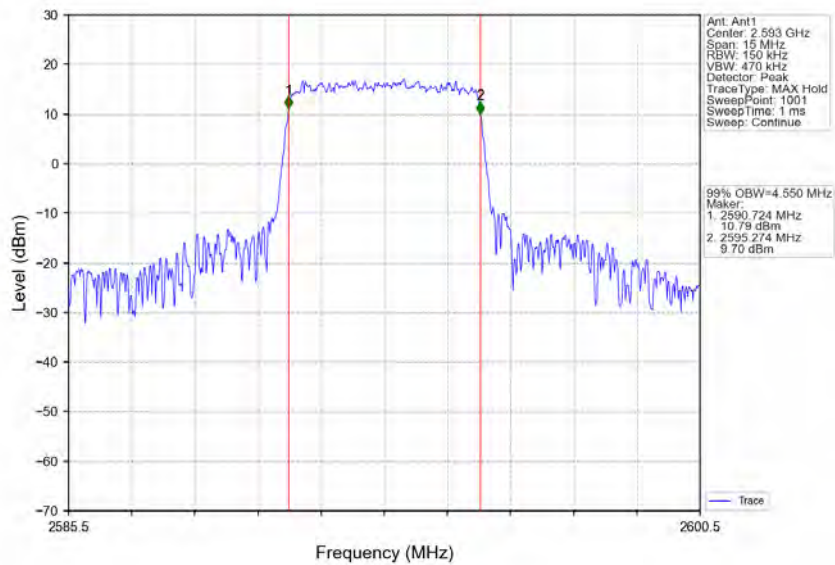
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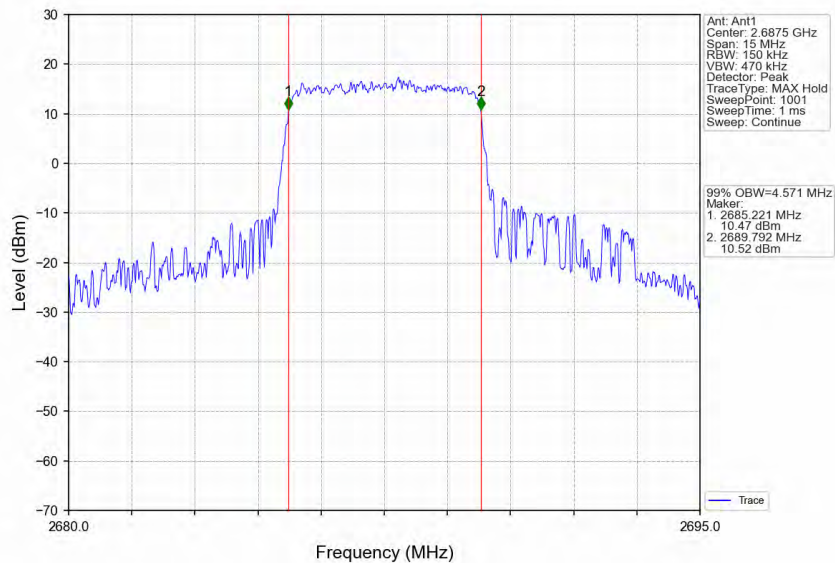
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Band41_5MHz_16QAM_HCH_2687.5MHz_RB_25_0_NTNV



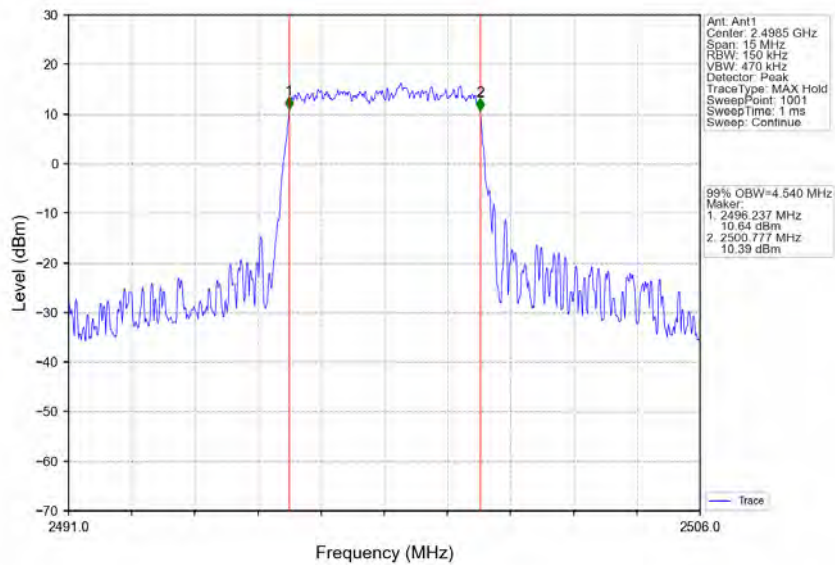
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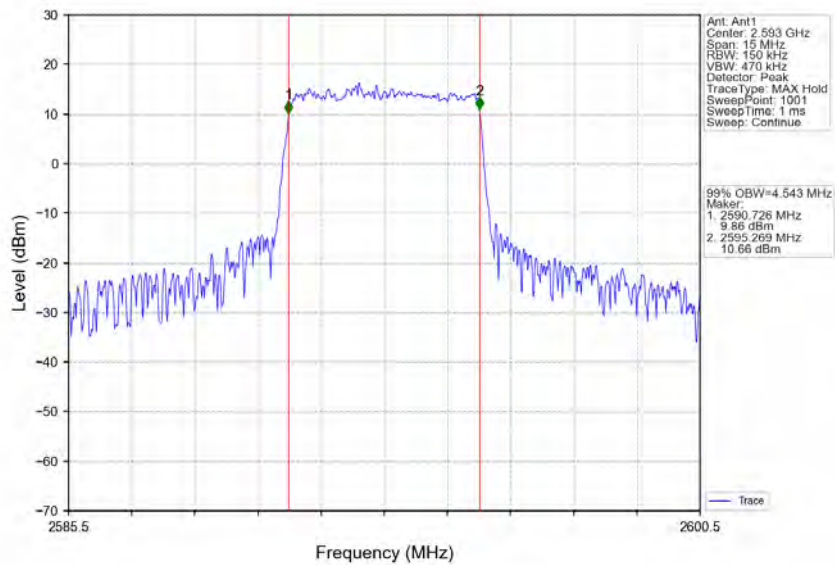
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Band41_5MHz_64QAM_MCH_2593MHz_RB_25_0_NTNV



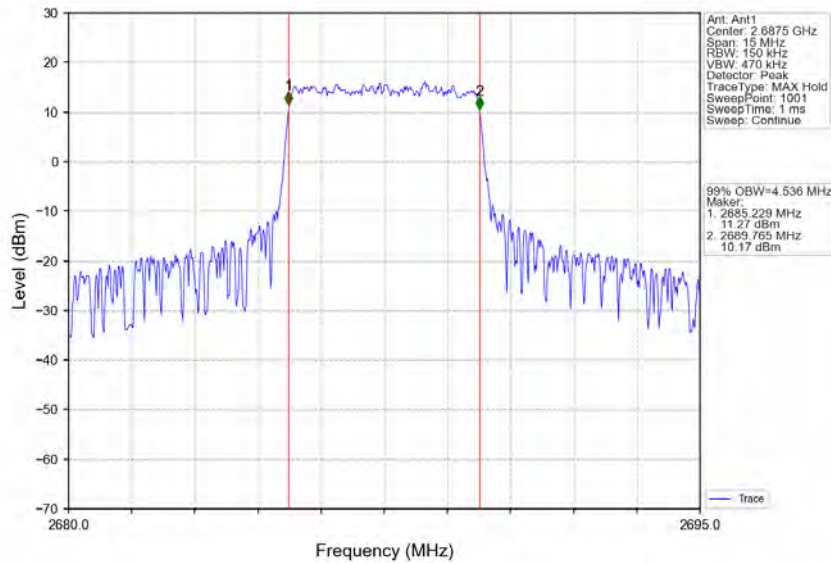
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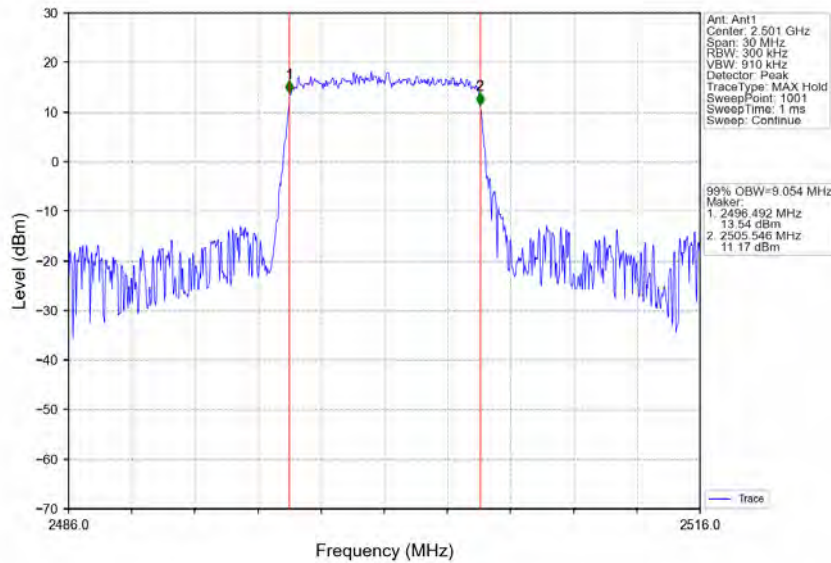
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Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV



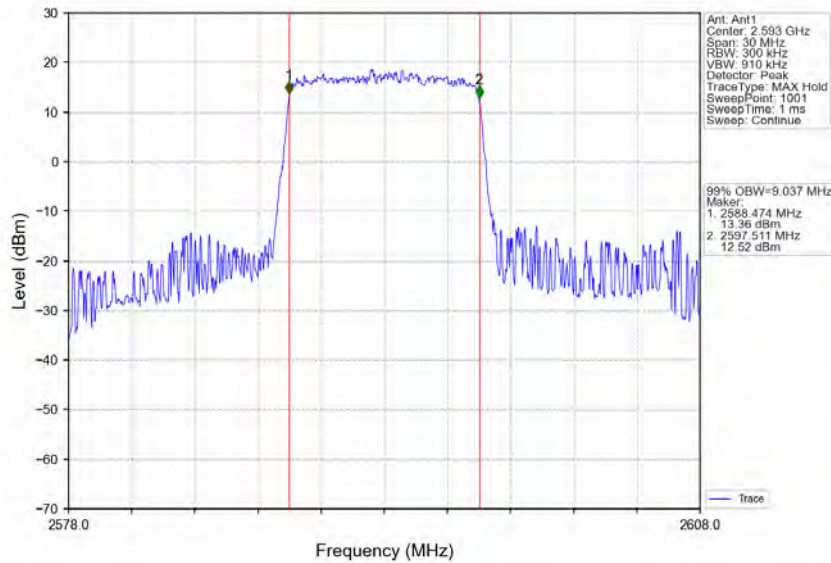
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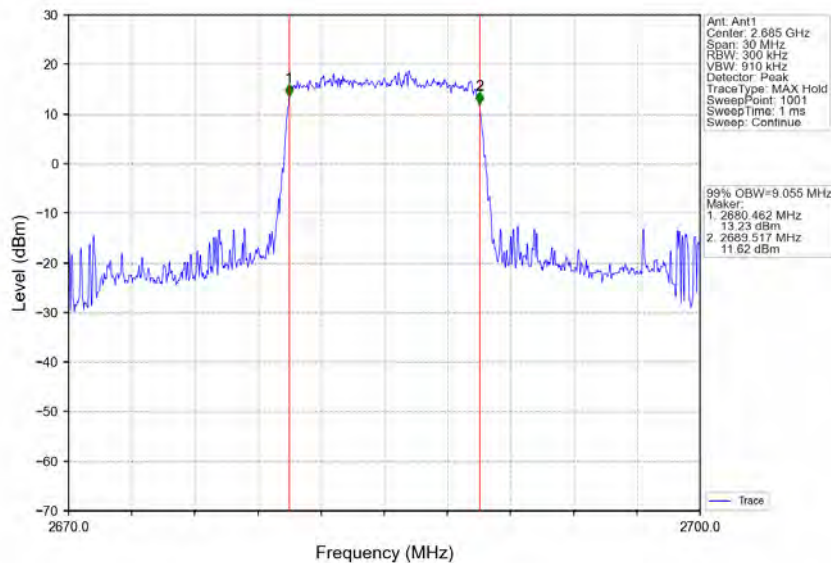
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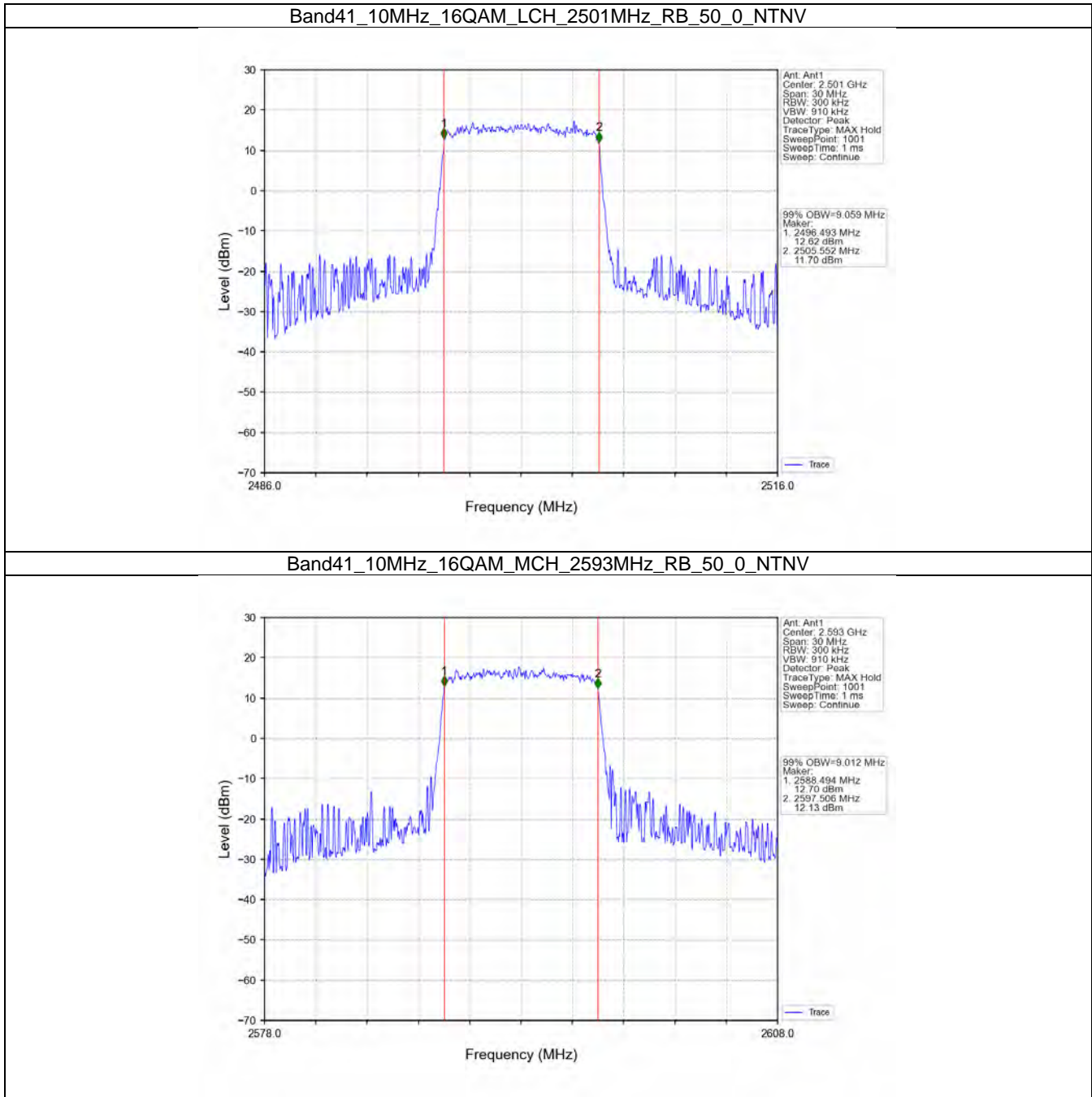
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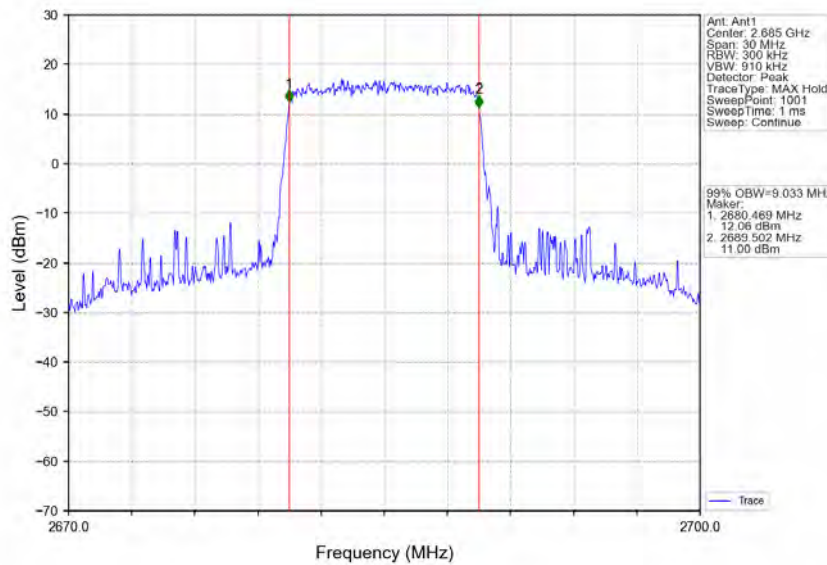
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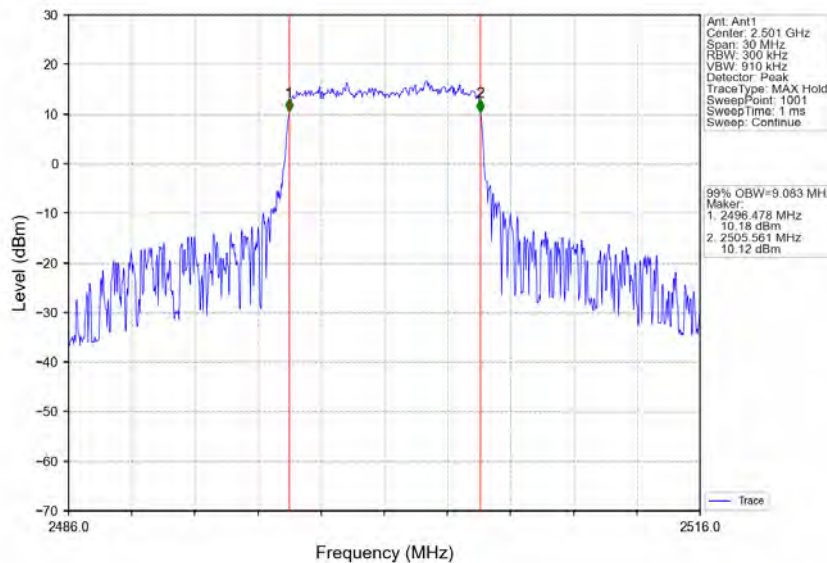
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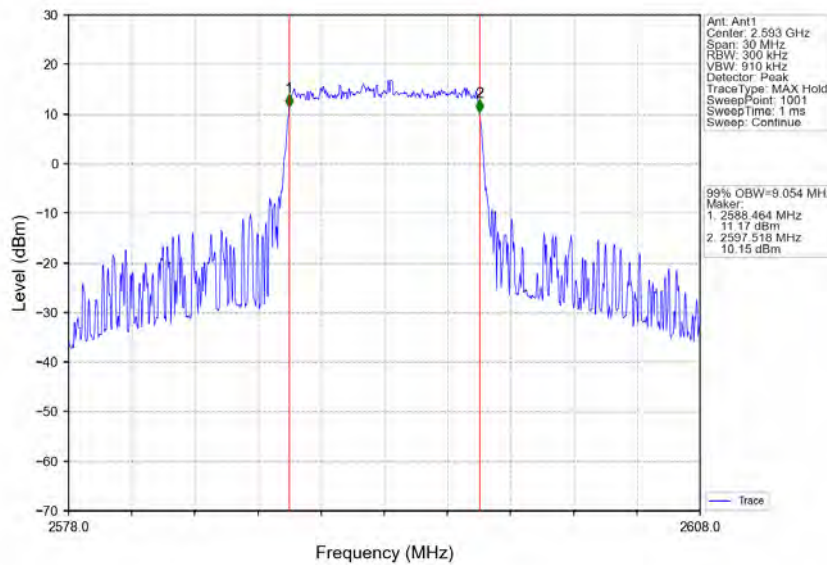
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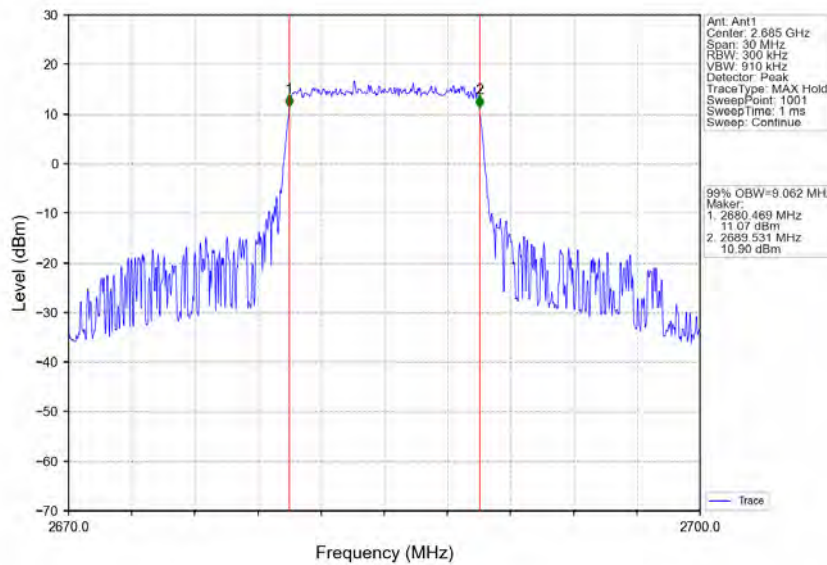
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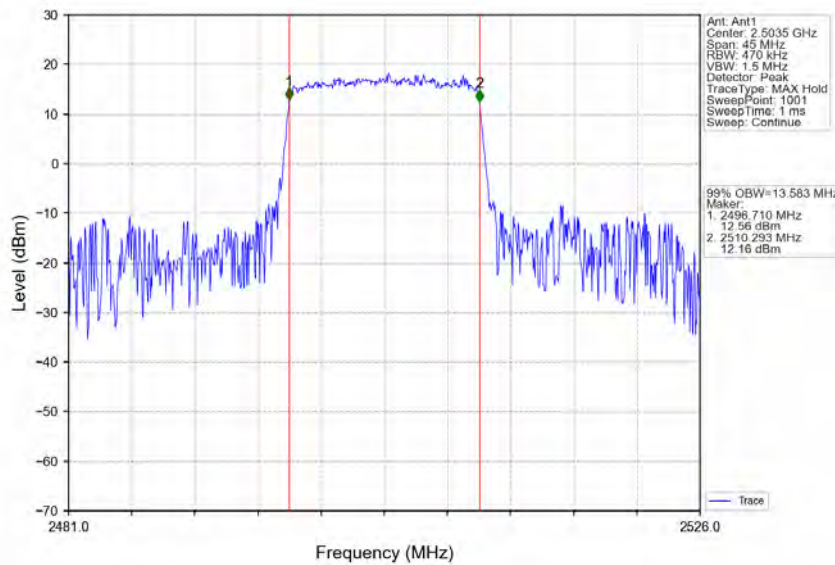
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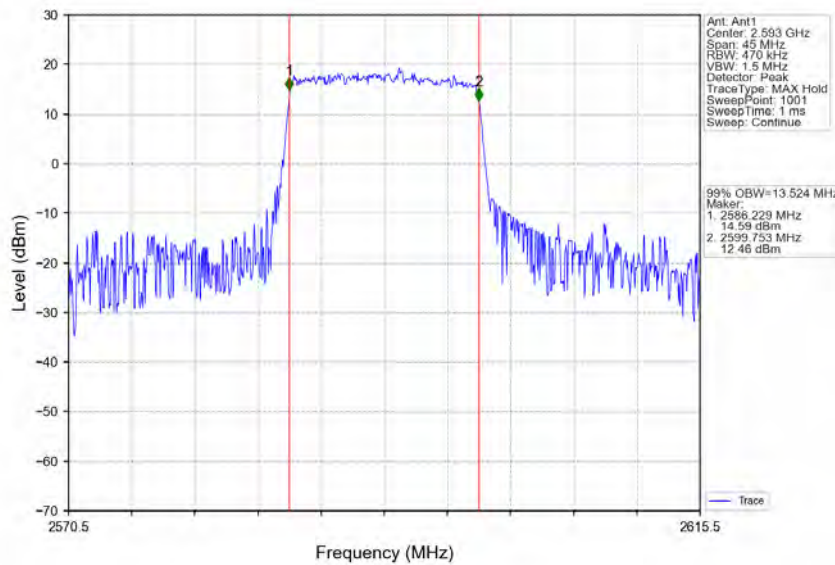
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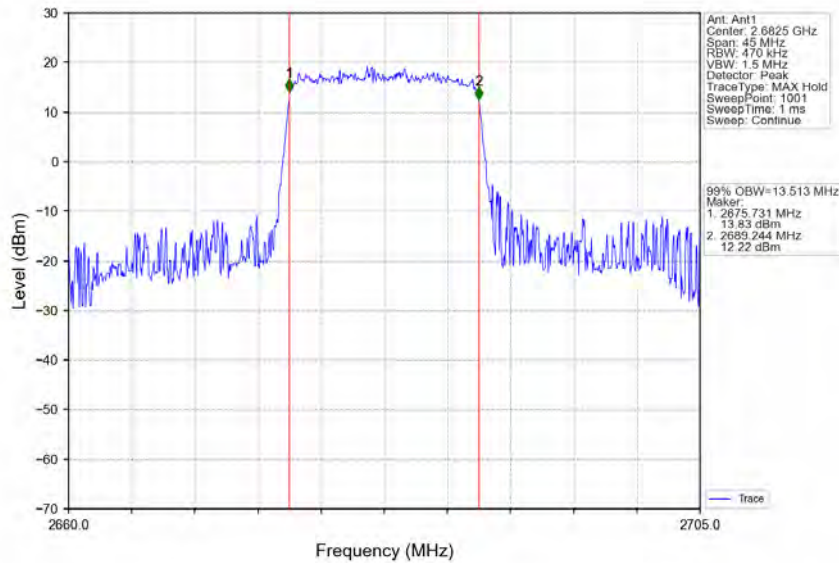
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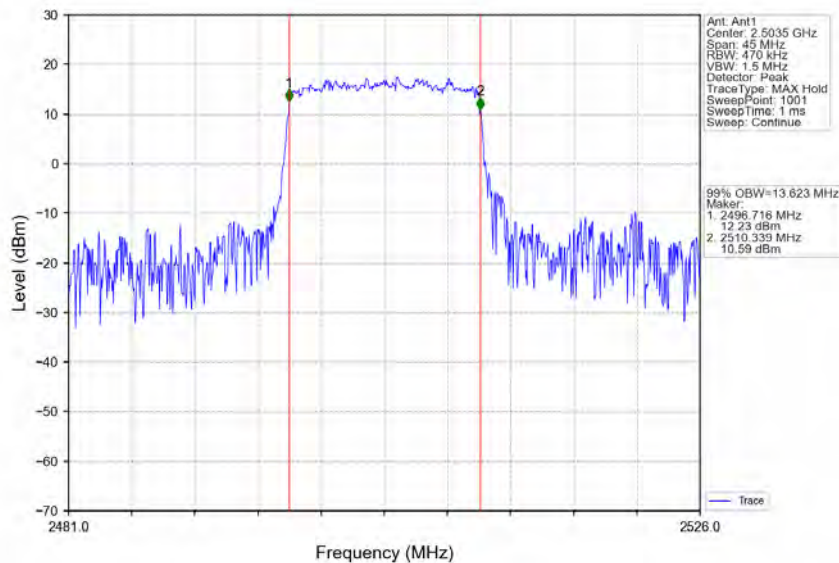
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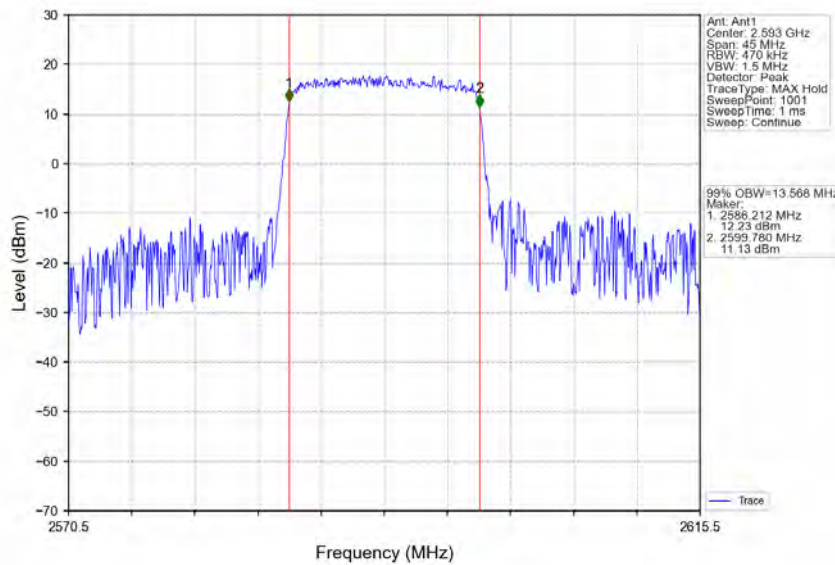
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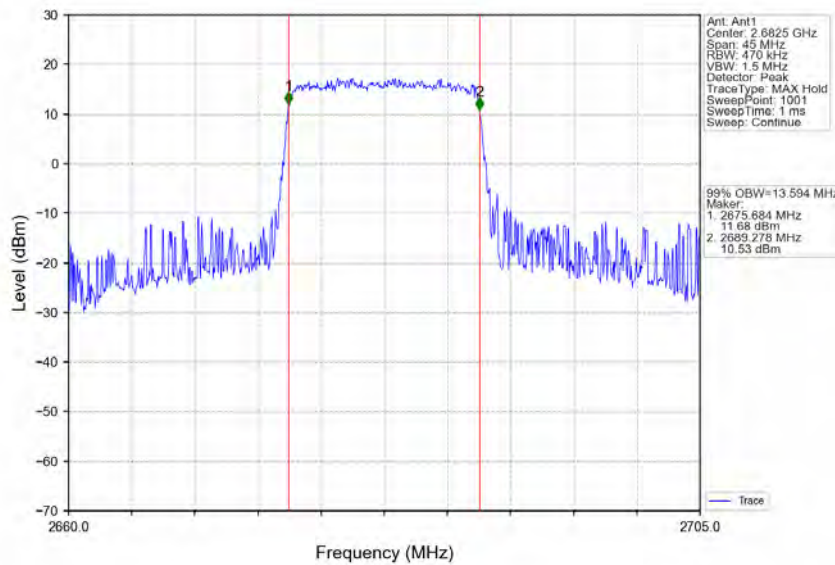
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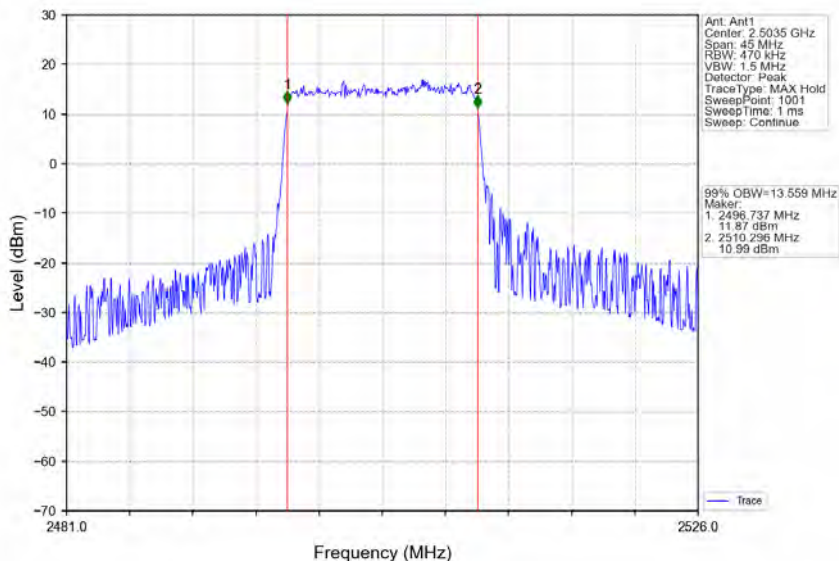
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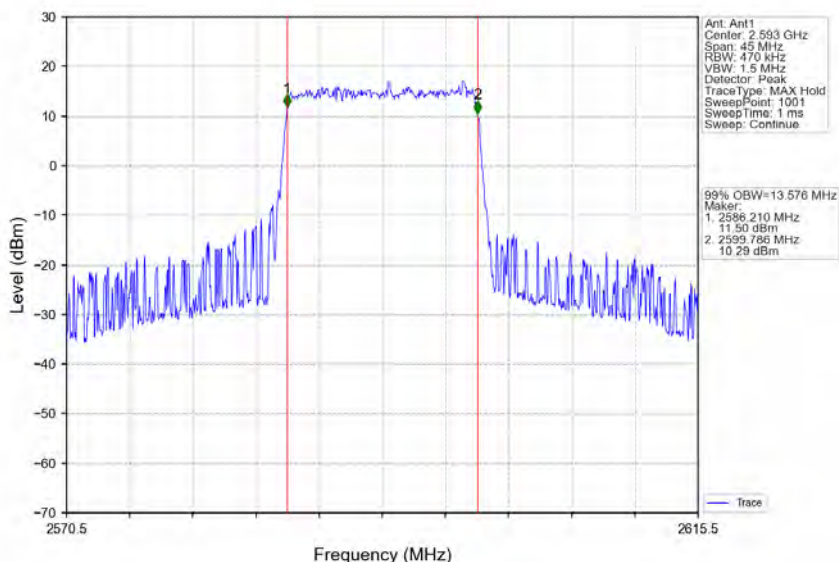
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Band41_15MHz_64QAM_MCH_2593MHz_RB_75_0_NTNV



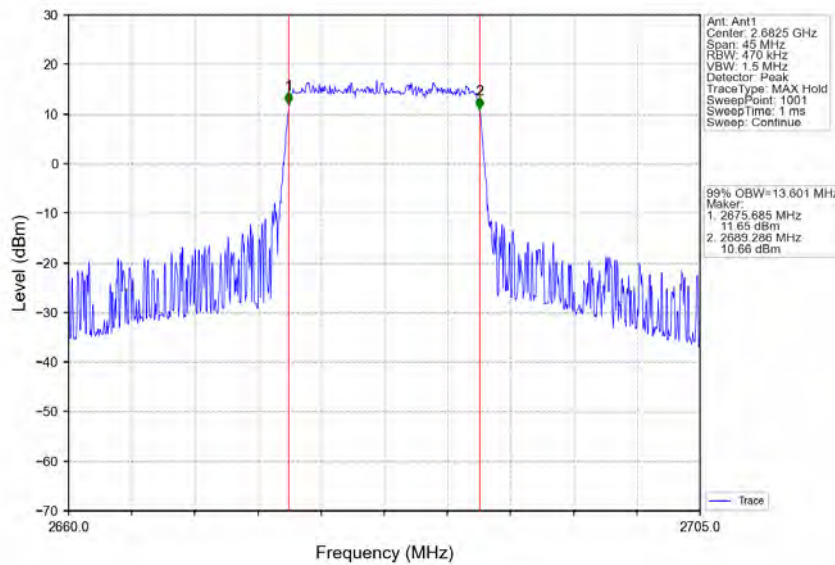
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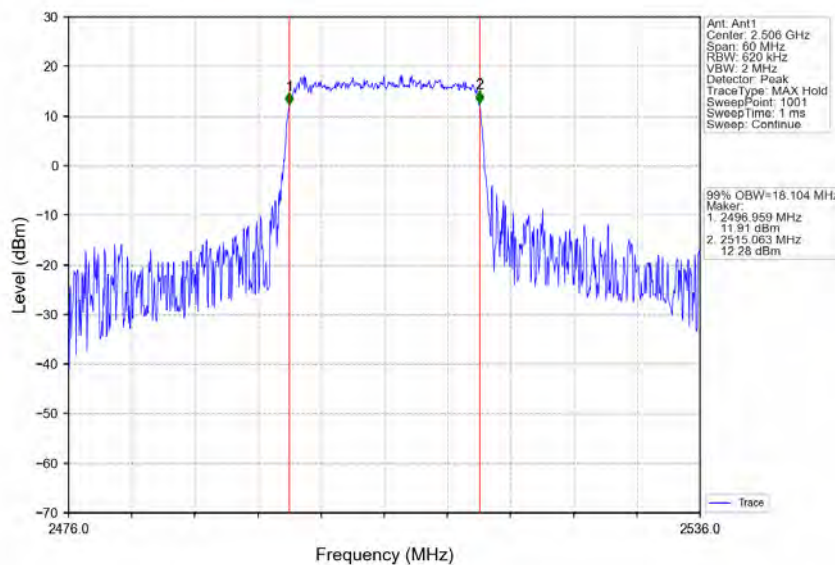
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Band41_20MHz_QPSK_LCH_2506MHz_RB_100_0_NTNV



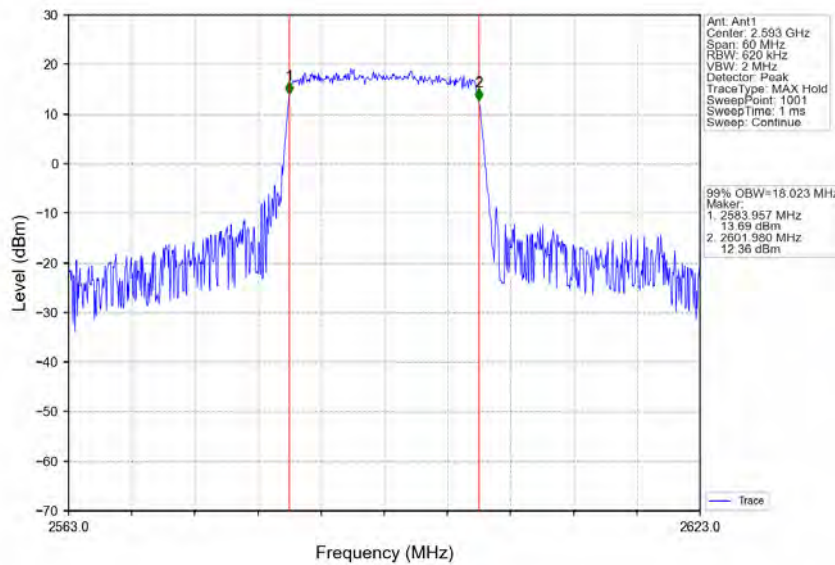
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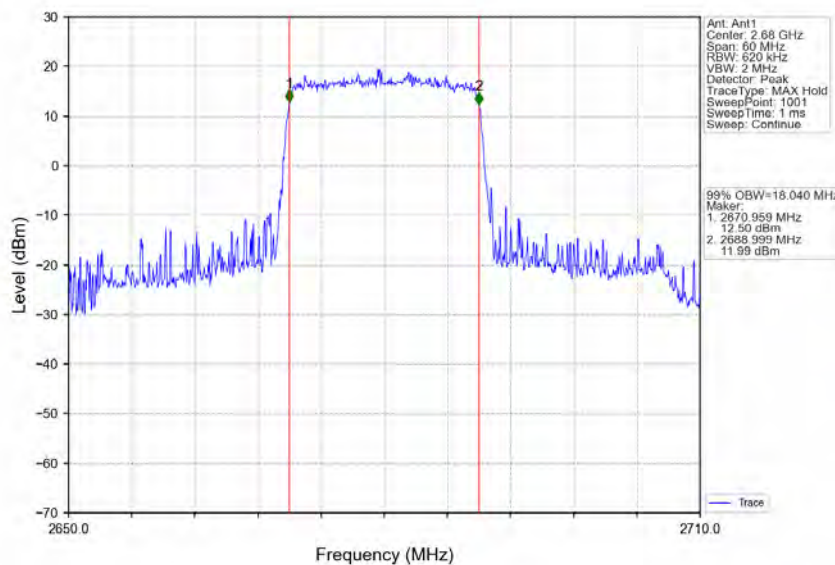
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Band41_20MHz_QPSK_HCH_2680MHz_RB_100_0_NTNV



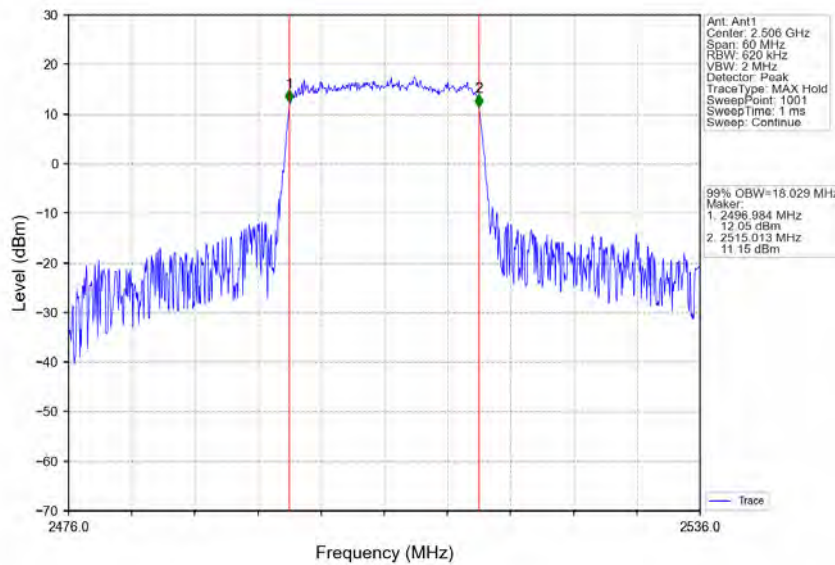
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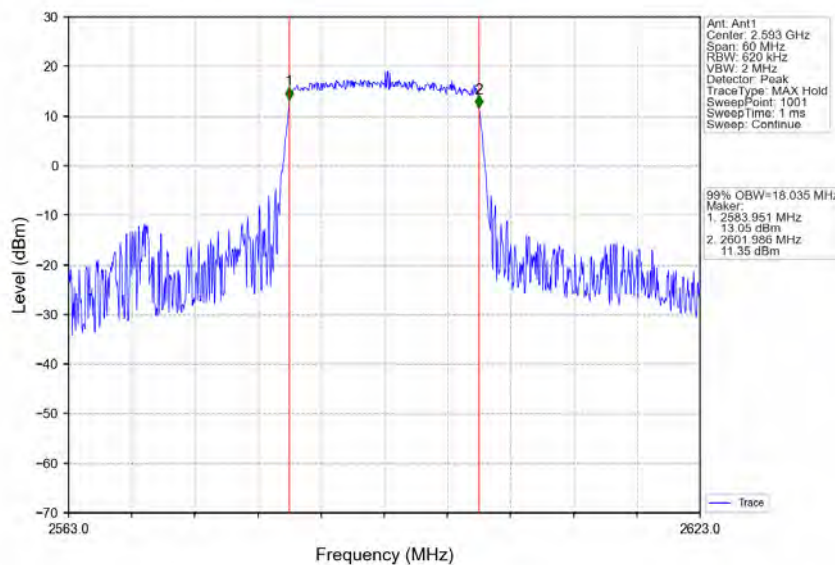
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Band41_20MHz_16QAM_MCH_2593MHz_RB_100_0_NTNV



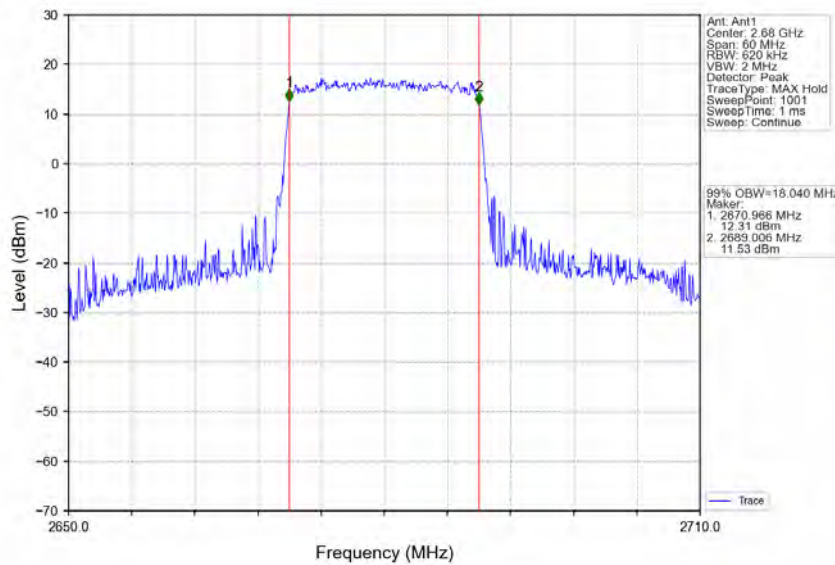
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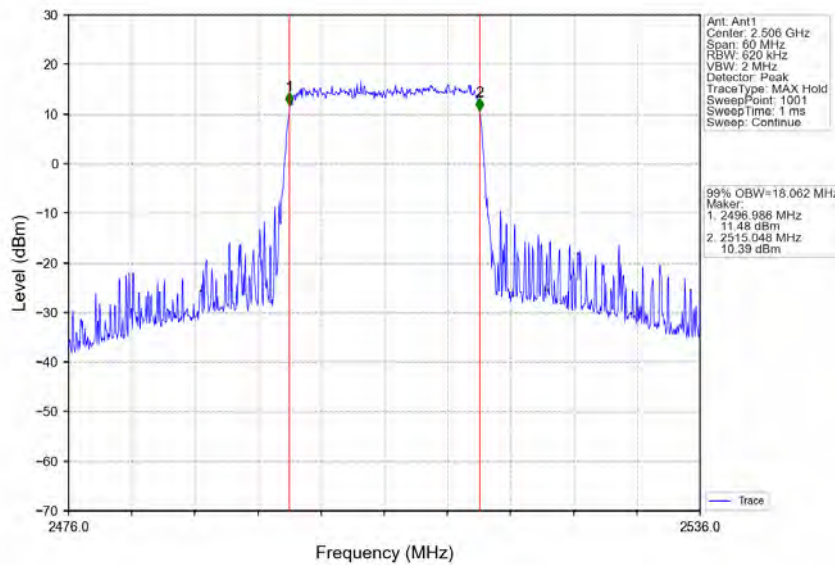
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Band41_20MHz_64QAM_LCH_2506MHz_RB_100_0_NTNV



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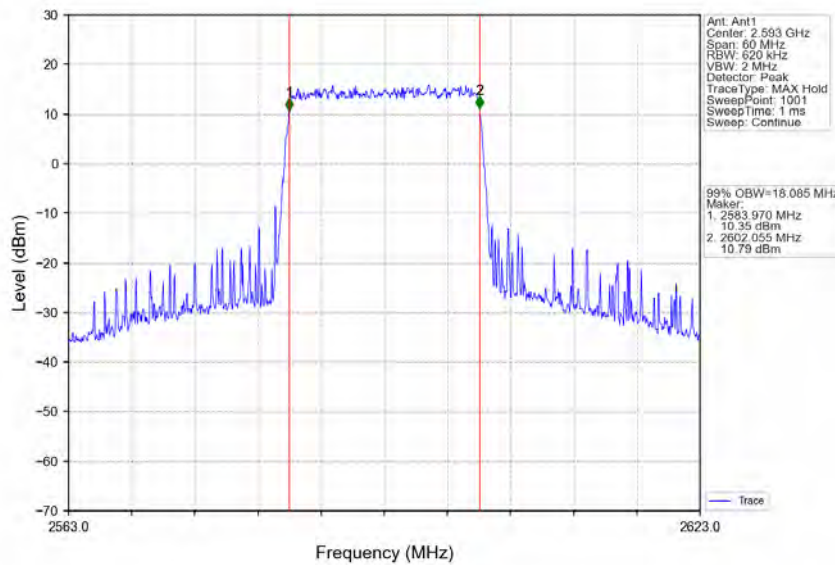
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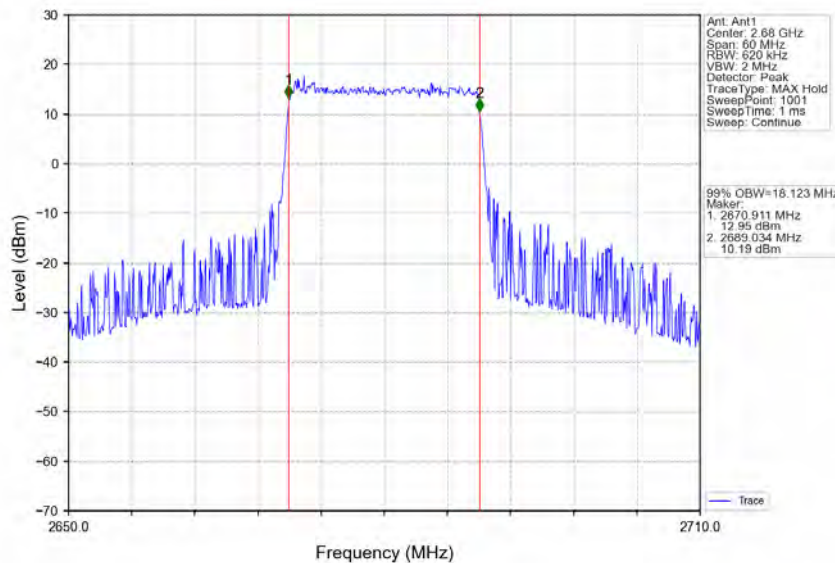
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Band41_20MHz_64QAM_HCH_2680MHz_RB_100_0_NTNV



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4.2 Band41_XDB

4.2.1 Test Result

Band: 41 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2498.5	25	0	5.127	Pass
		2593	25	0	5.067	Pass
		2687.5	25	0	5.026	Pass
	16QAM	2498.5	25	0	5.236	Pass
		2593	25	0	5.064	Pass
		2687.5	25	0	5.437	Pass
	64QAM	2498.5	25	0	5.108	Pass
		2593	25	0	4.997	Pass
		2687.5	25	0	5.125	Pass
10	QPSK	2501	50	0	10.322	Pass
		2593	50	0	10.001	Pass
		2685	50	0	10.061	Pass
	16QAM	2501	50	0	9.986	Pass
		2593	50	0	10.358	Pass
		2685	50	0	10.375	Pass
	64QAM	2501	50	0	10.860	Pass
		2593	50	0	10.427	Pass
		2685	50	0	10.204	Pass
15	QPSK	2503.5	75	0	15.160	Pass
		2593	75	0	15.241	Pass
		2682.5	75	0	15.666	Pass
	16QAM	2503.5	75	0	16.139	Pass
		2593	75	0	17.119	Pass
		2682.5	75	0	15.613	Pass
	64QAM	2503.5	75	0	15.897	Pass
		2593	75	0	15.370	Pass
		2682.5	75	0	15.240	Pass
20	QPSK	2506	100	0	21.742	Pass
		2593	100	0	20.924	Pass
		2680	100	0	20.089	Pass
	16QAM	2506	100	0	20.025	Pass
		2593	100	0	21.159	Pass
		2680	100	0	20.752	Pass
	64QAM	2506	100	0	20.224	Pass
		2593	100	0	20.188	Pass
		2680	100	0	21.474	Pass



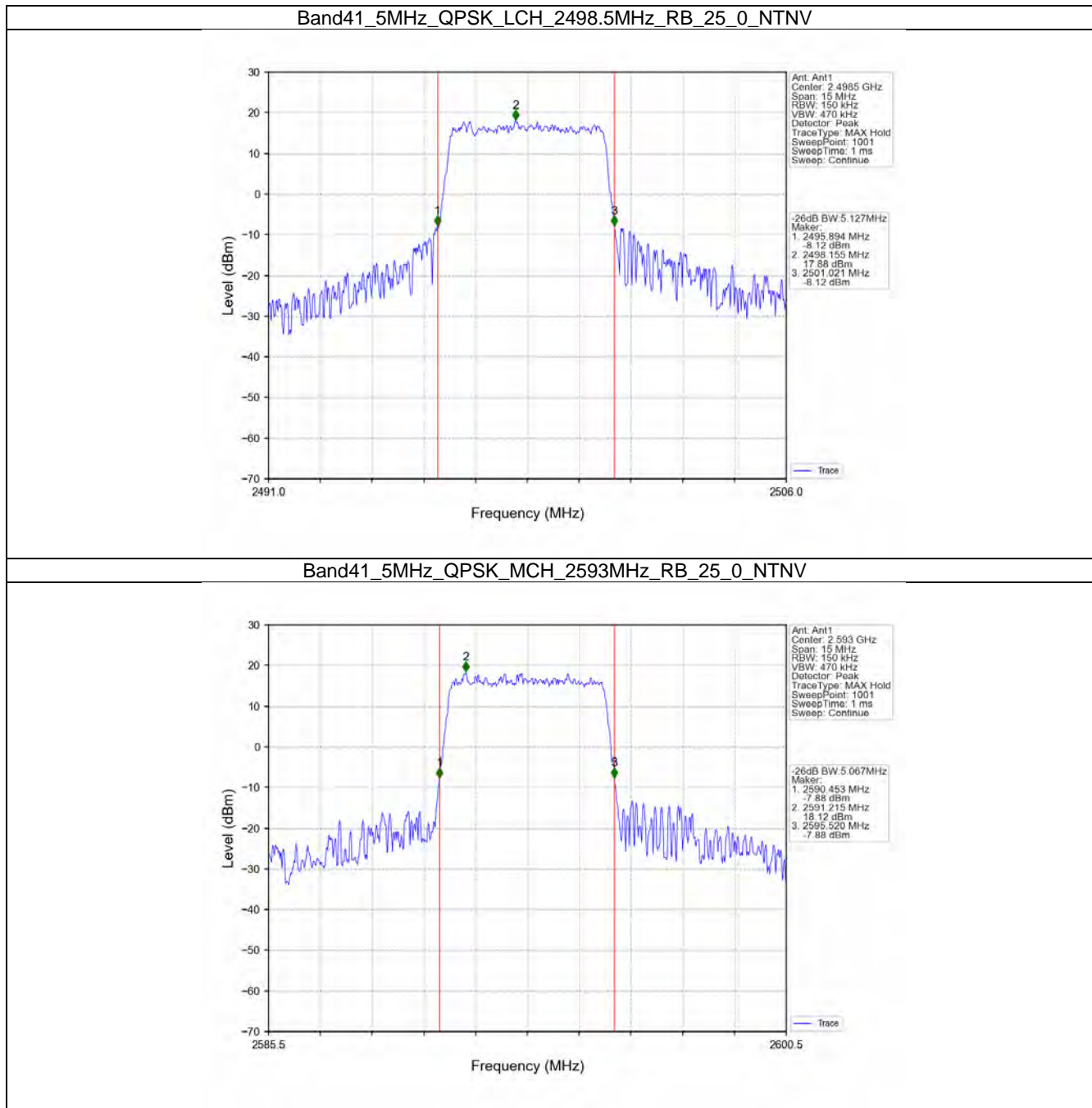
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4.2.2 Test Graph

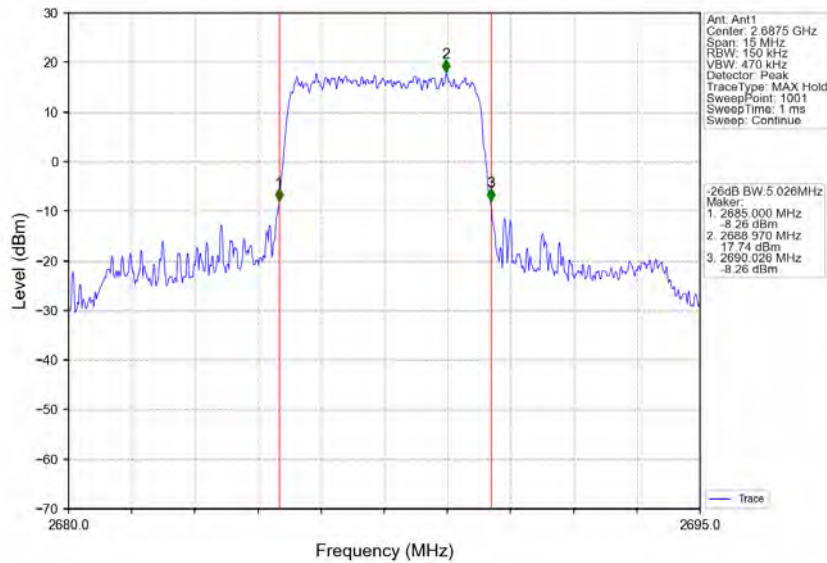


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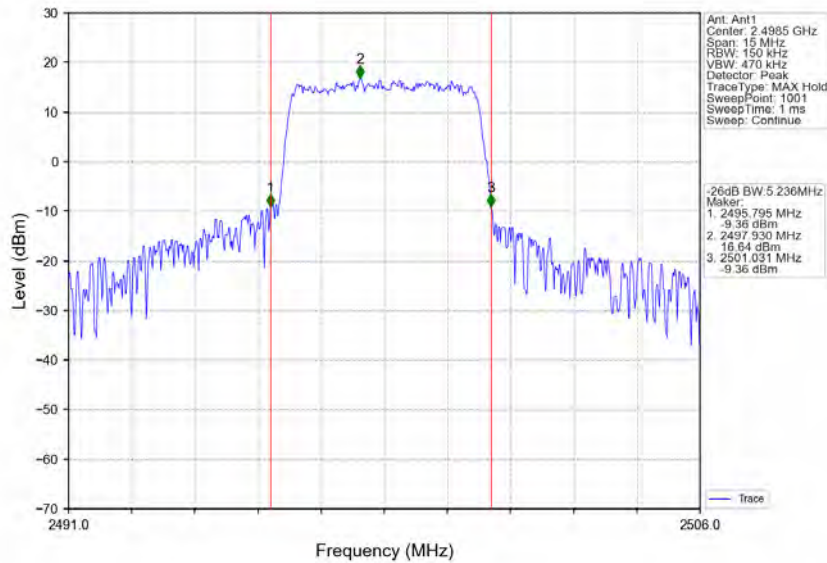
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Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV



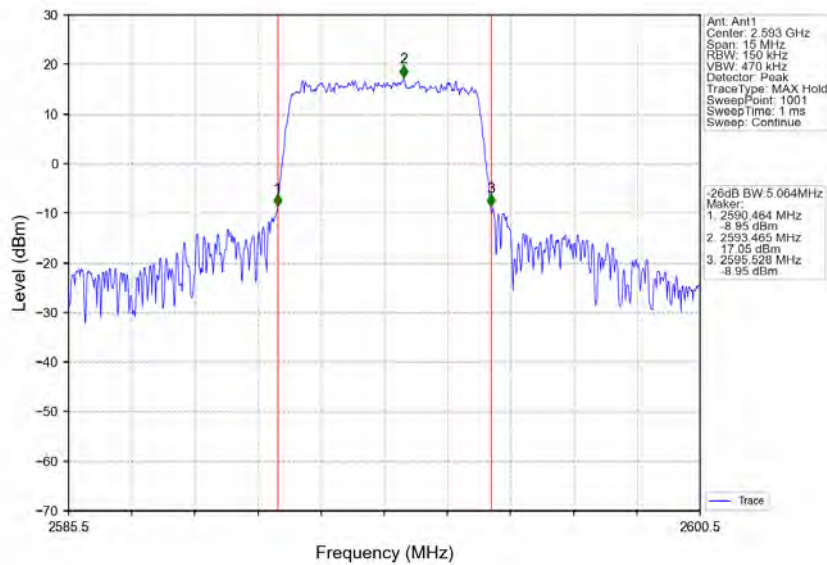
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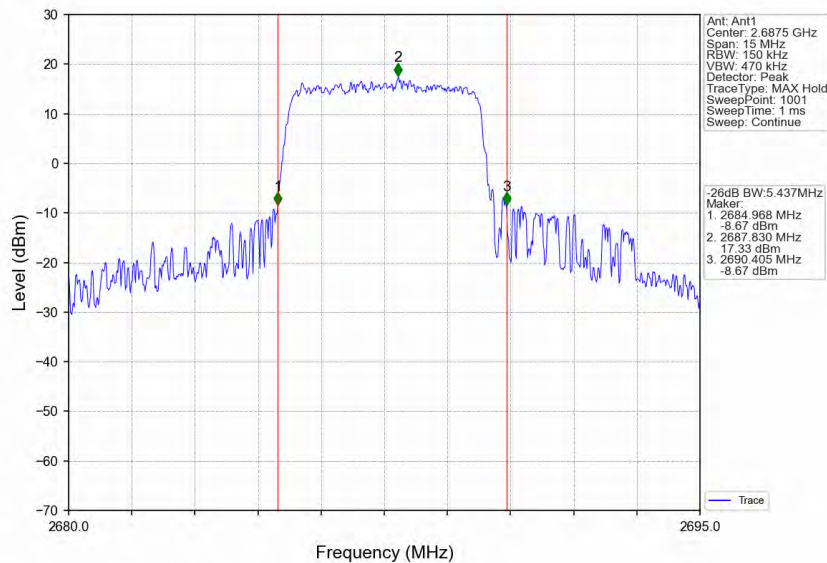
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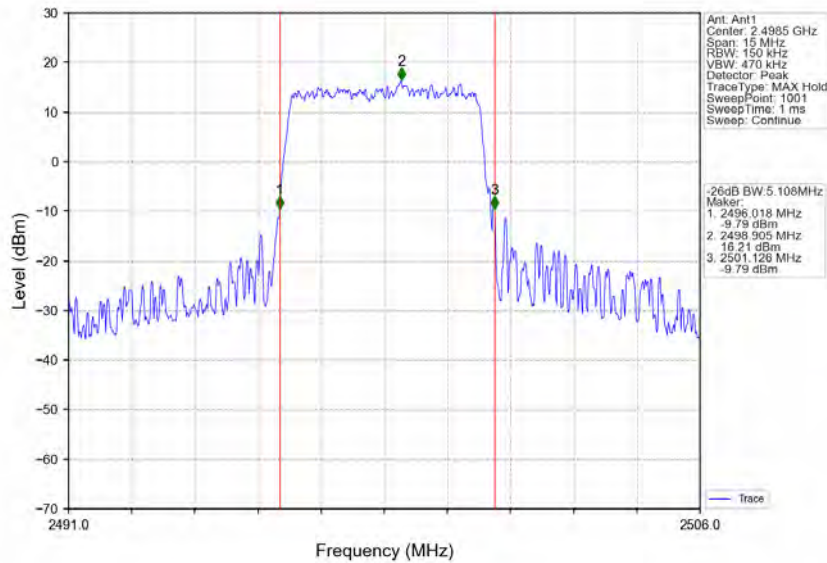
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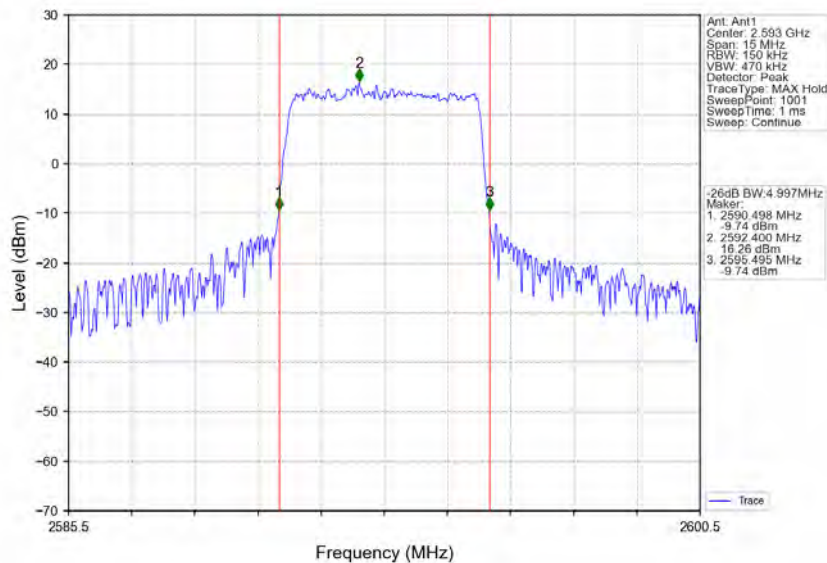
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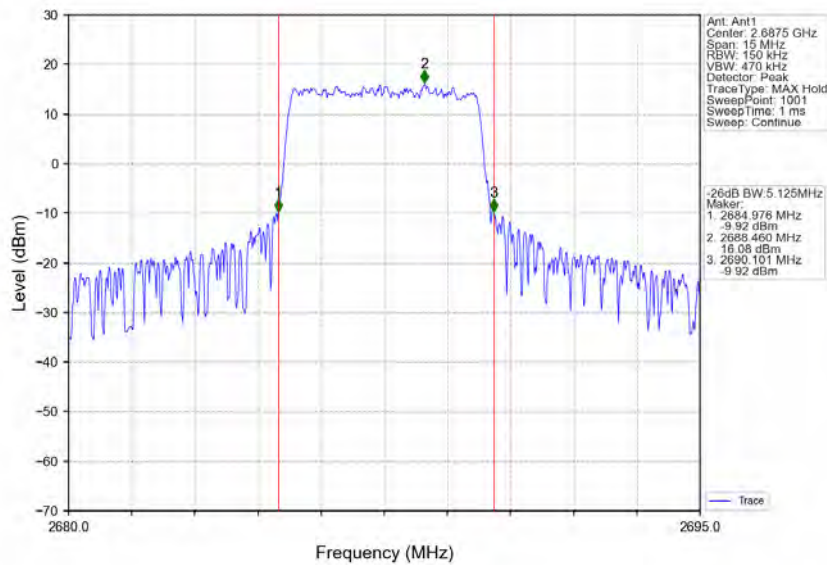
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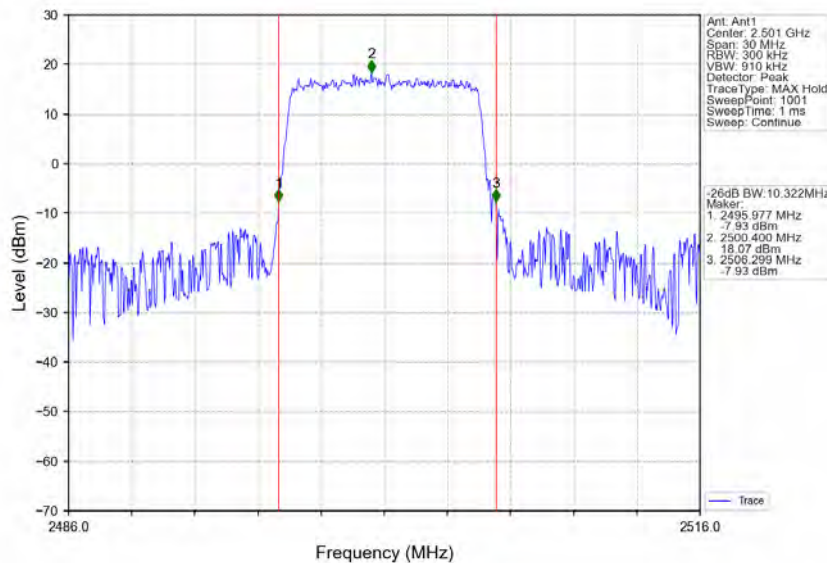
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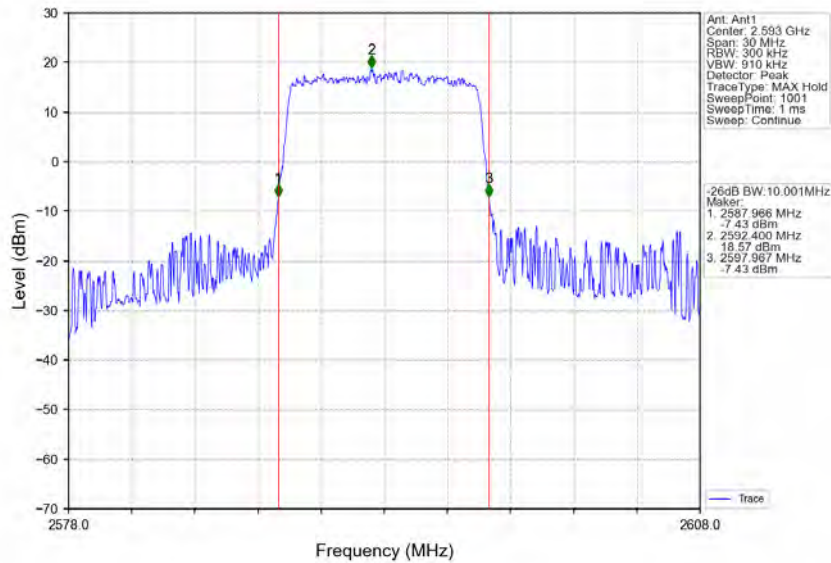
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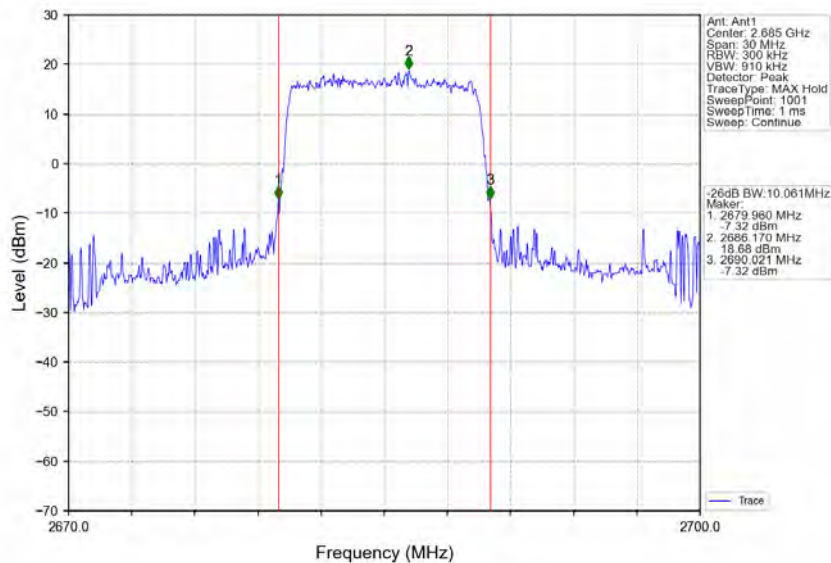
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Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV



Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV

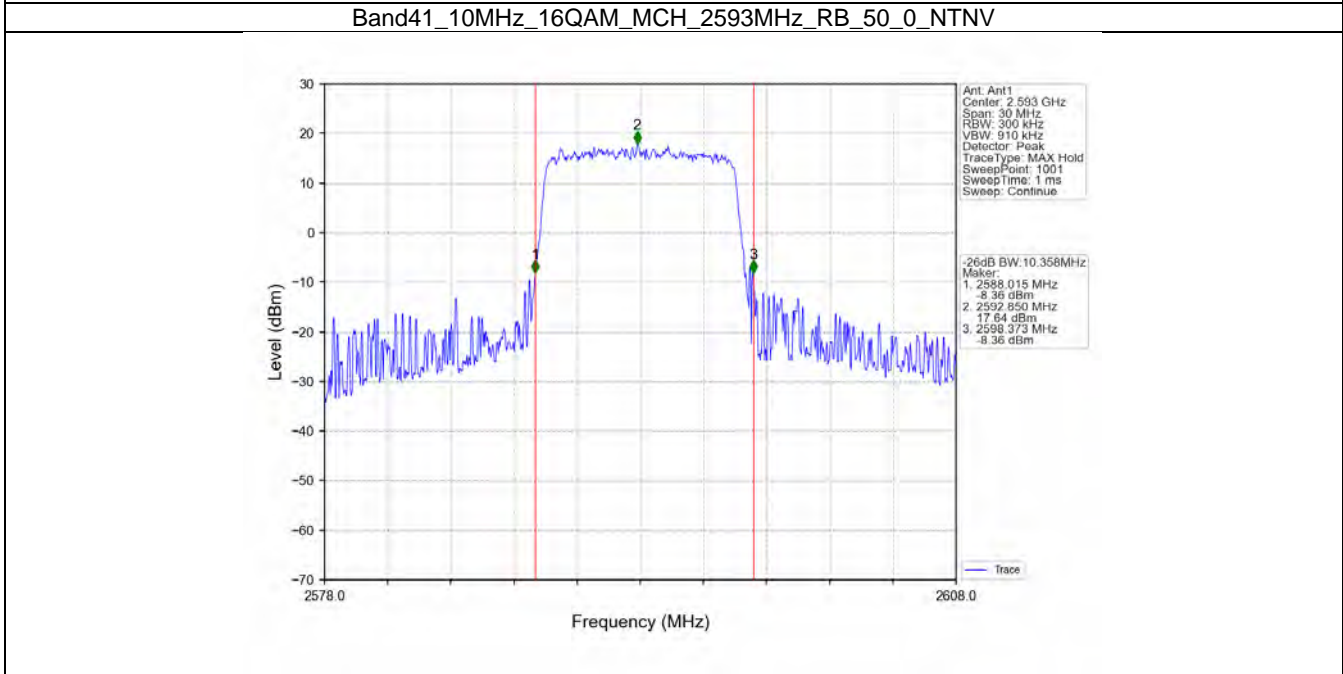
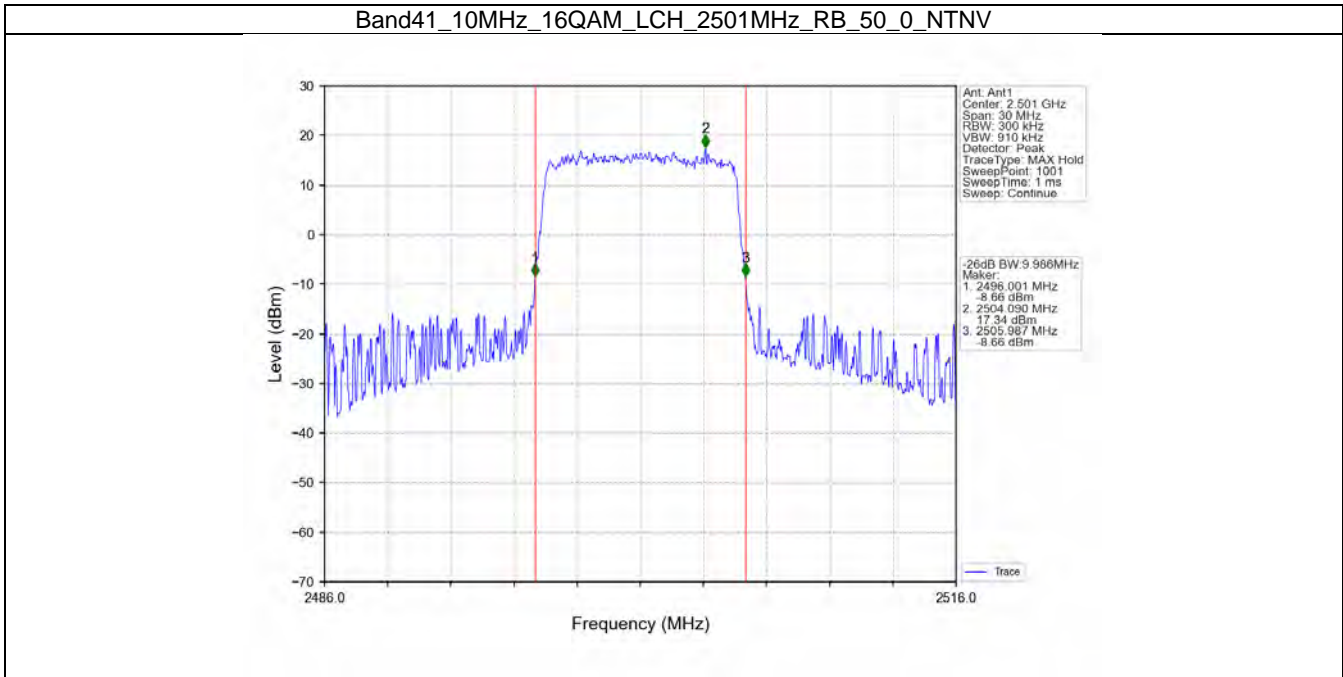


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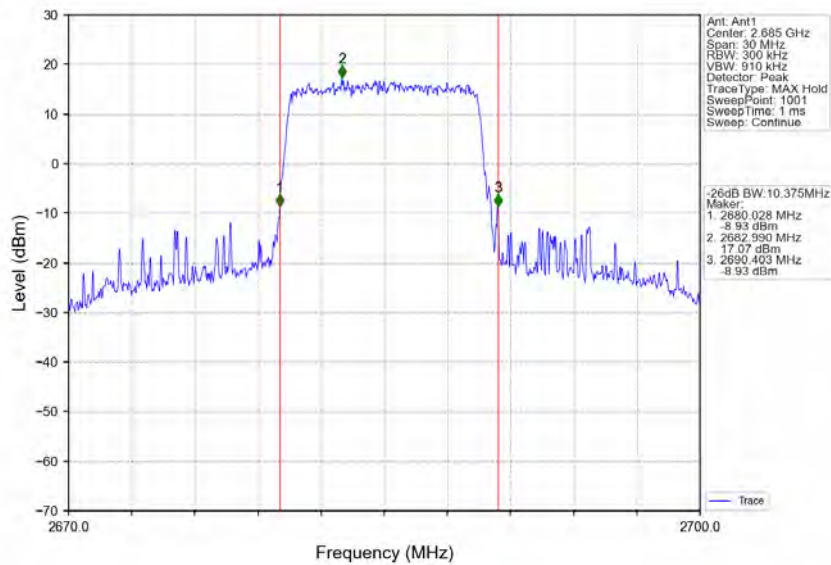
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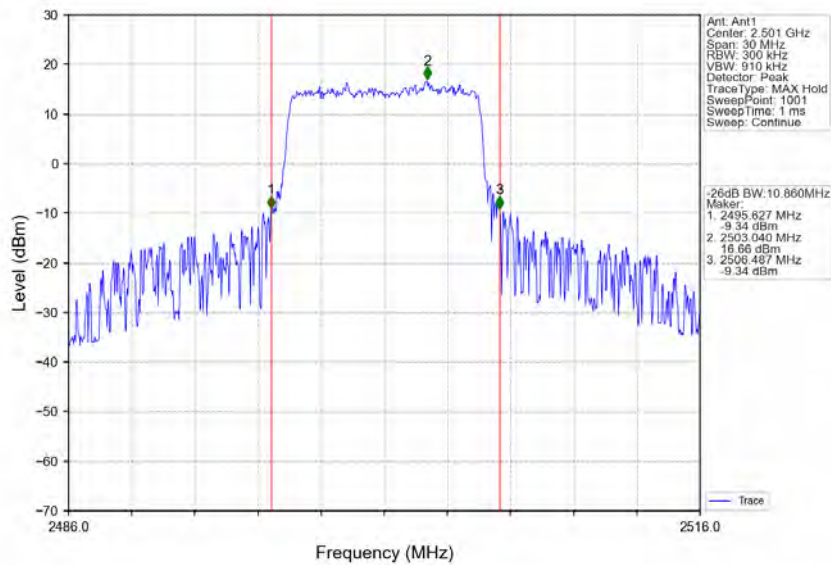
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Band41_10MHz_64QAM_LCH_2501MHz_RB_50_0_NTNV



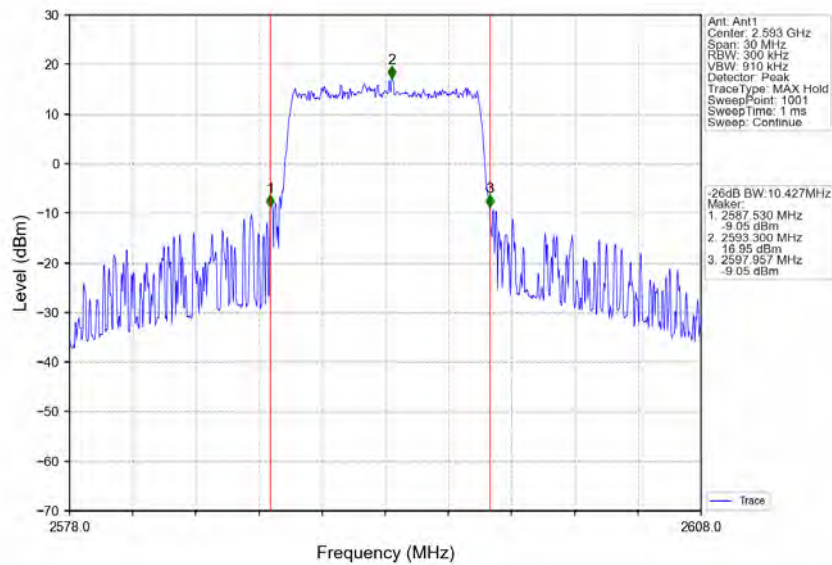
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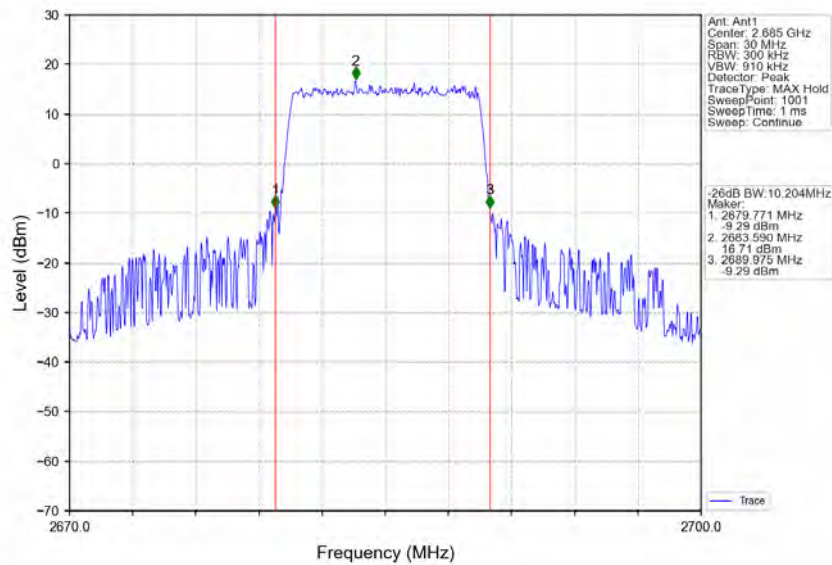
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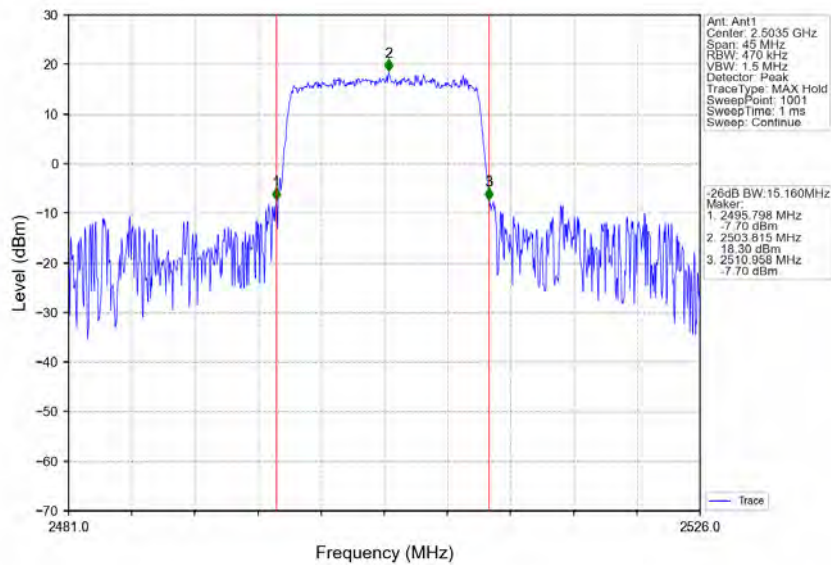
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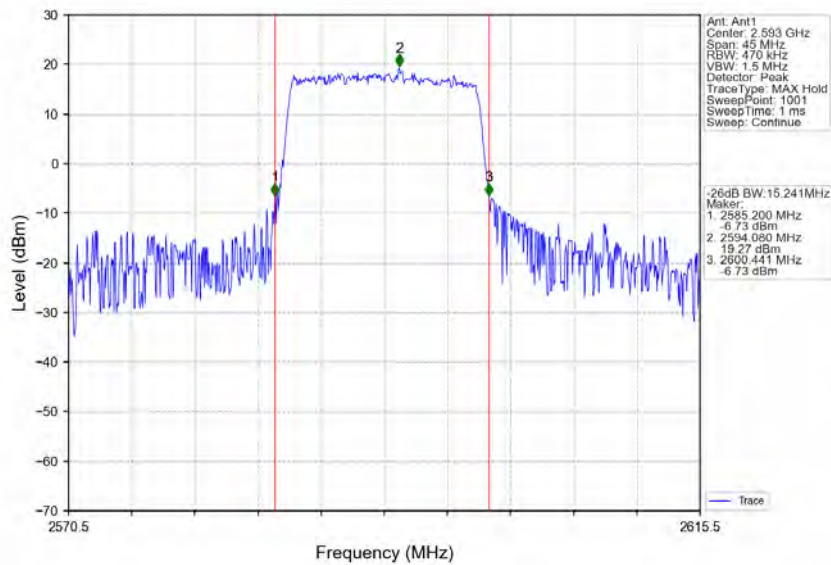
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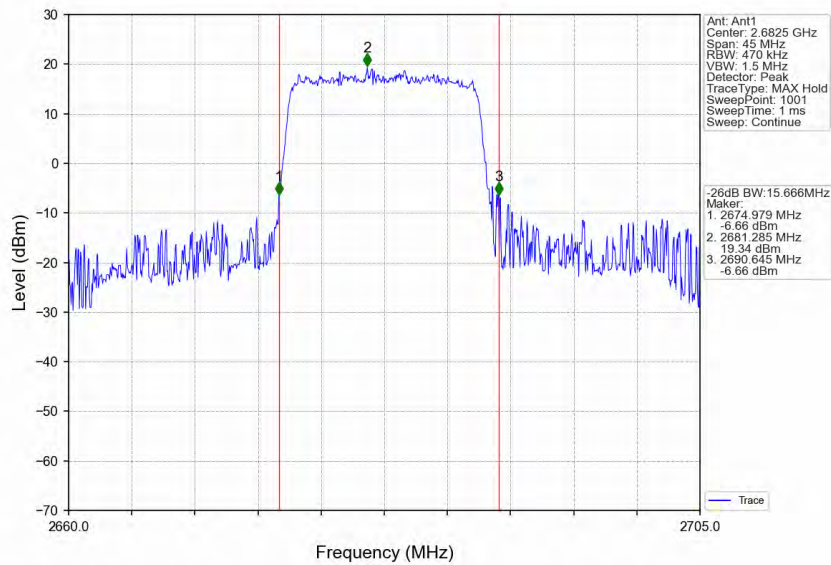
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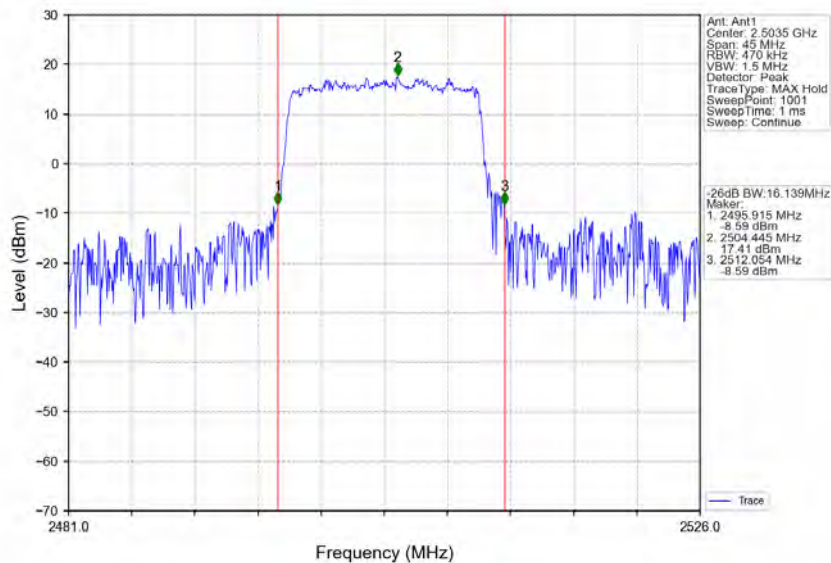
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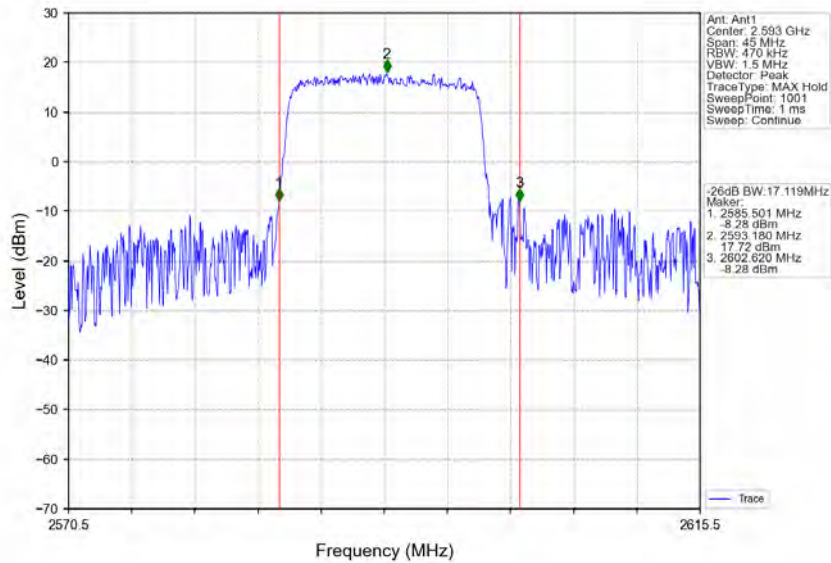
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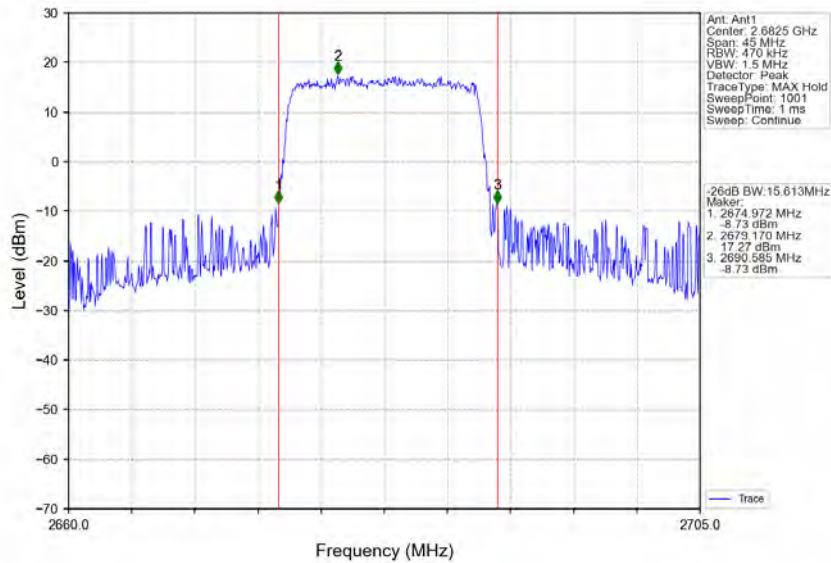
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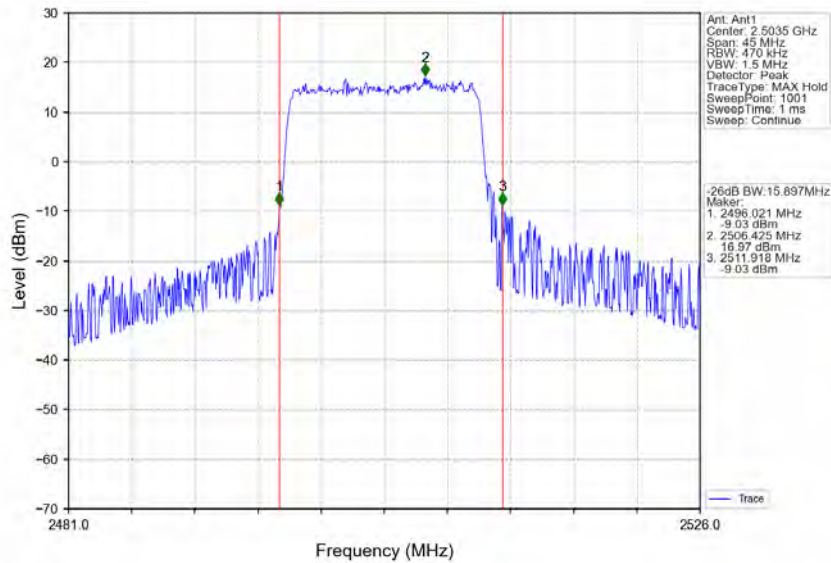
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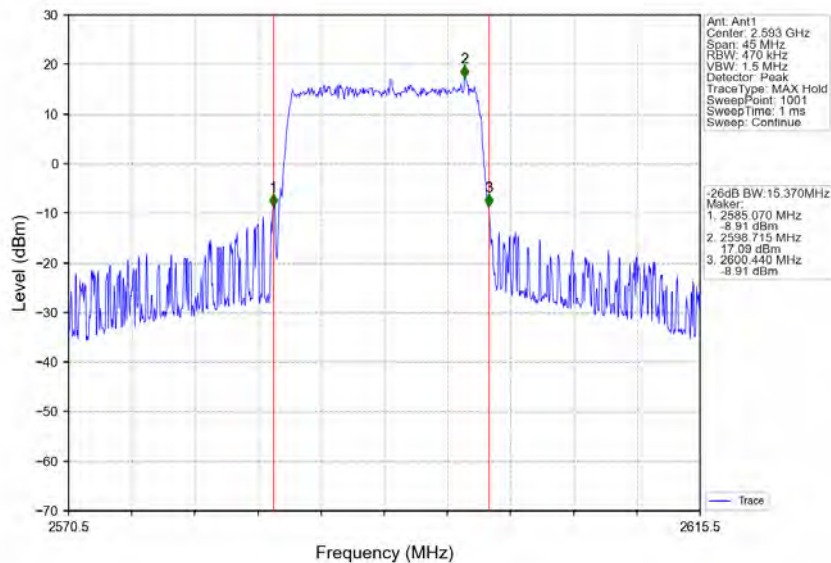
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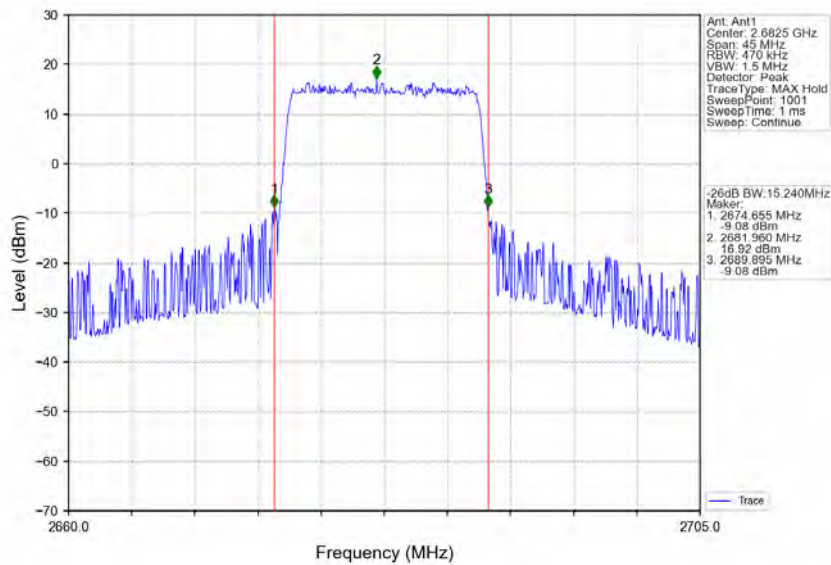
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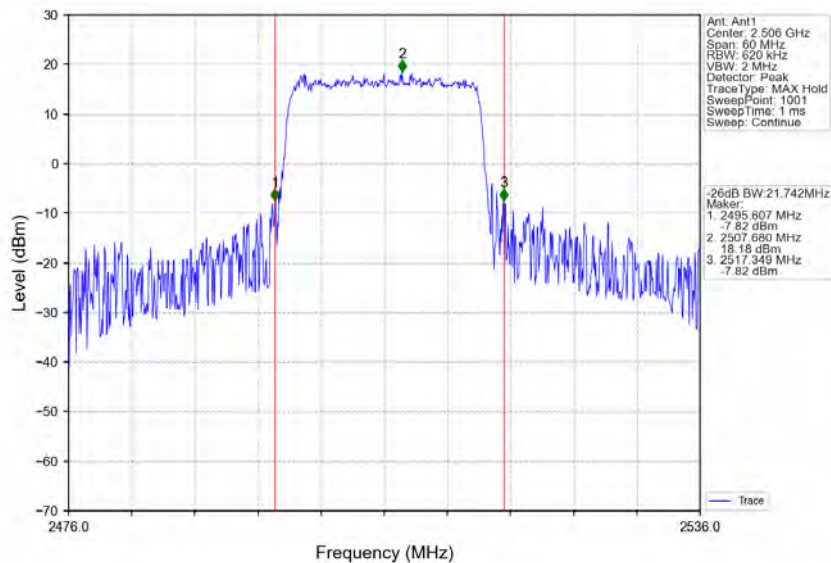
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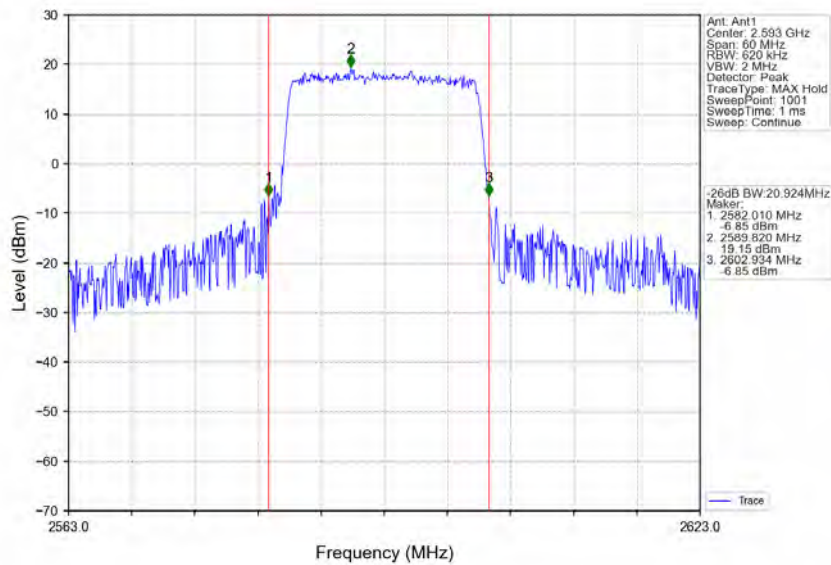
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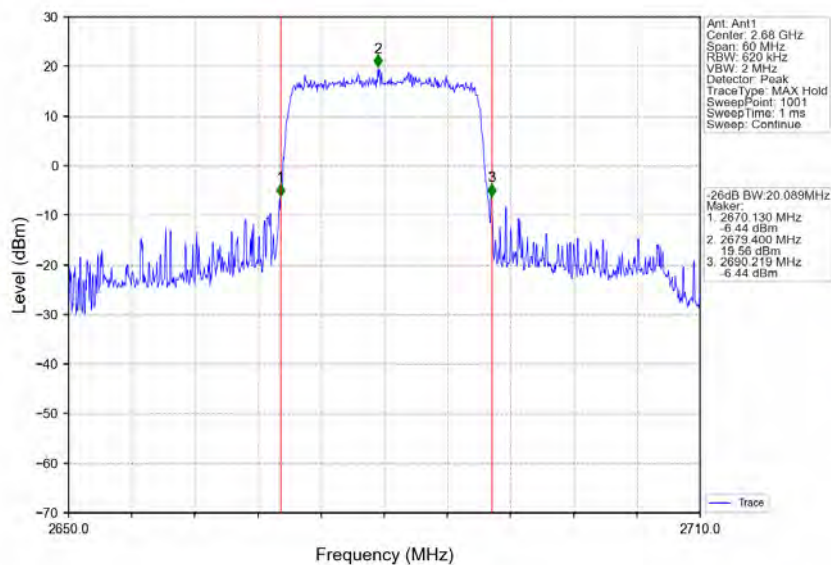
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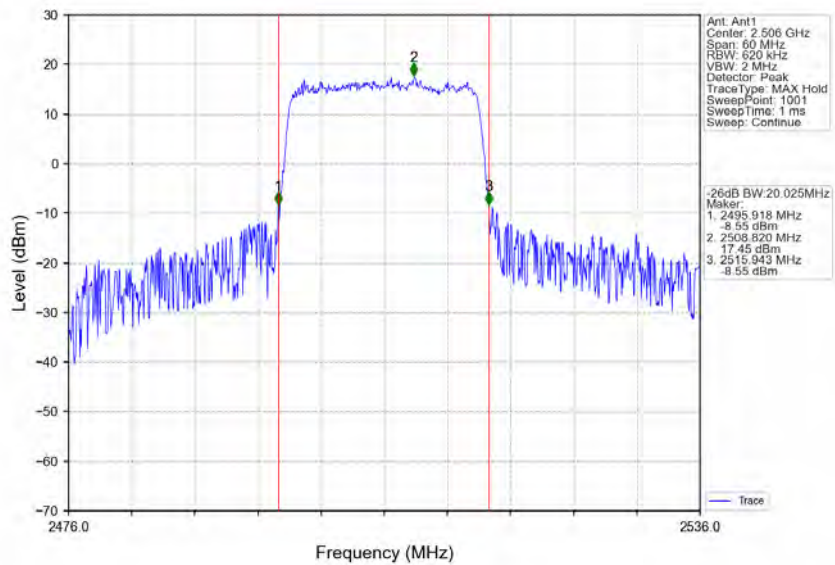
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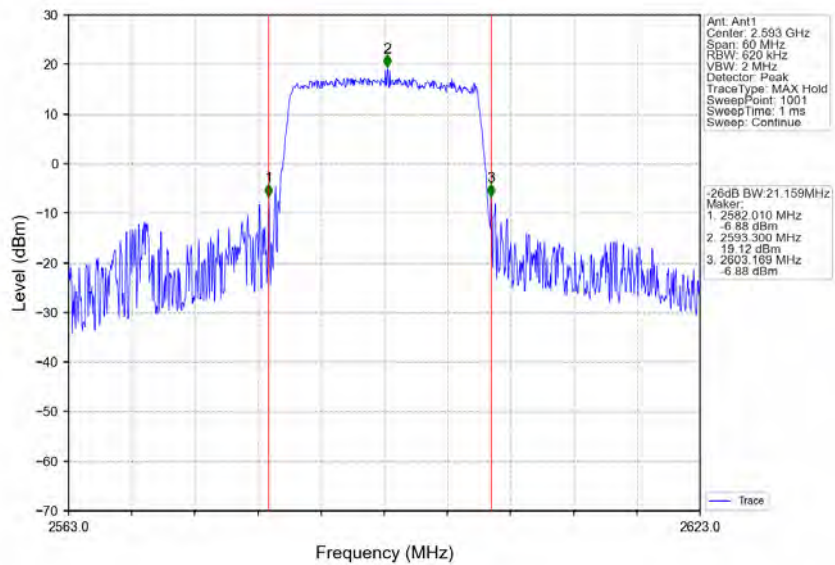
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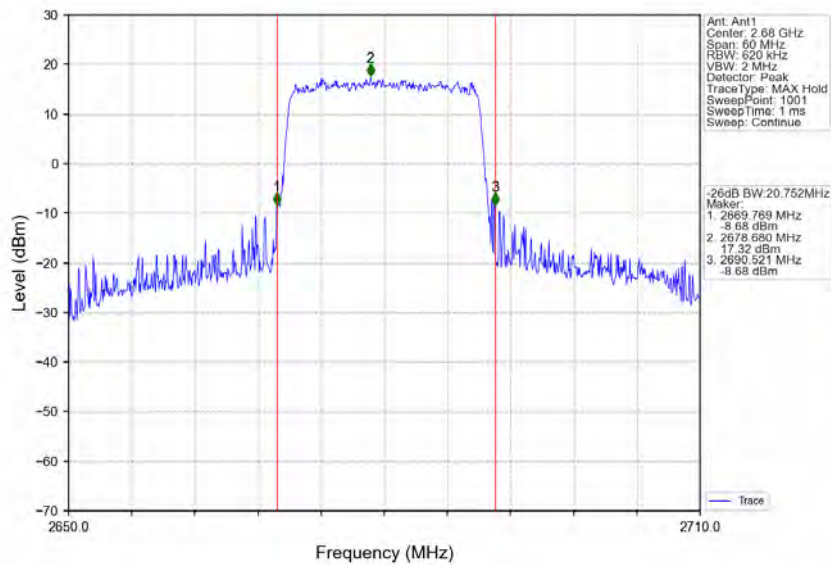
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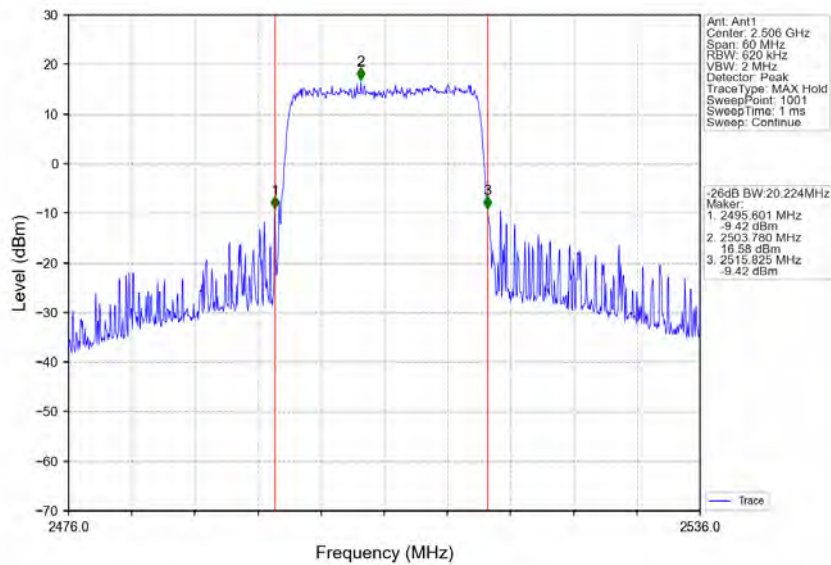
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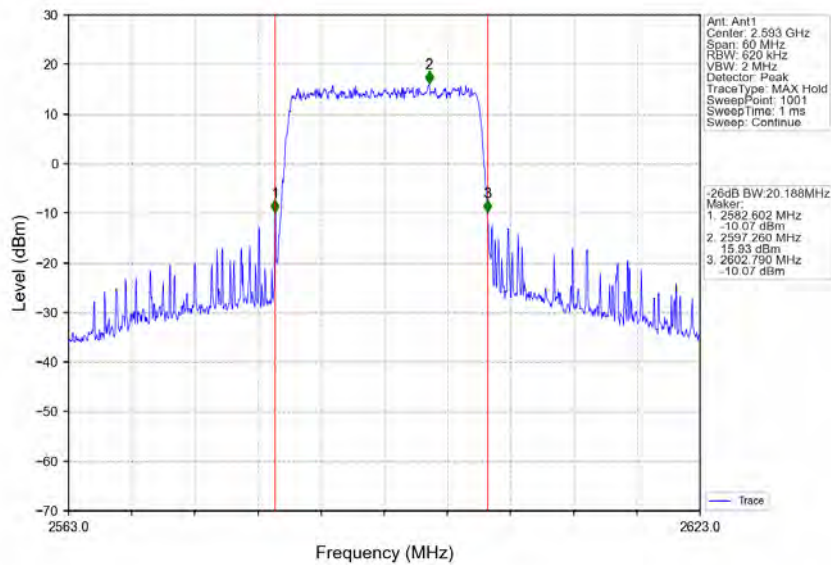
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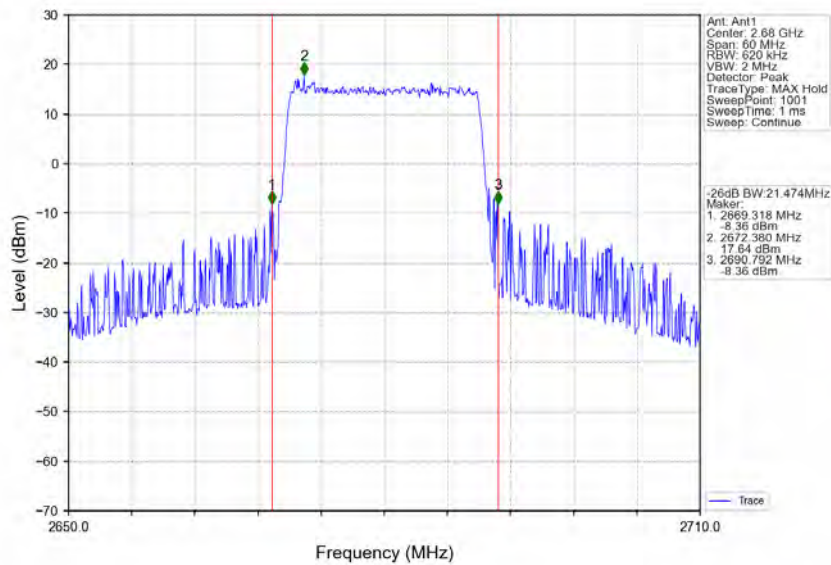
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Band41_20MHz_64QAM_MCH_2593MHz_RB_100_0_NTNV



Band41_20MHz_64QAM_HCH_2680MHz_RB_100_0_NTNV



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5. Peak-Average Ratio

5.1 B41_5MHz

5.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	25	0	6.95	<=13	Pass
	2593	25	0	7.00	<=13	Pass
	2687.5	25	0	6.86	<=13	Pass
16QAM	2498.5	25	0	8.05	<=13	Pass
	2593	25	0	8.00	<=13	Pass
	2687.5	25	0	7.74	<=13	Pass
64QAM	2498.5	25	0	8.50	<=13	Pass
	2593	25	0	8.59	<=13	Pass
	2687.5	25	0	8.63	<=13	Pass



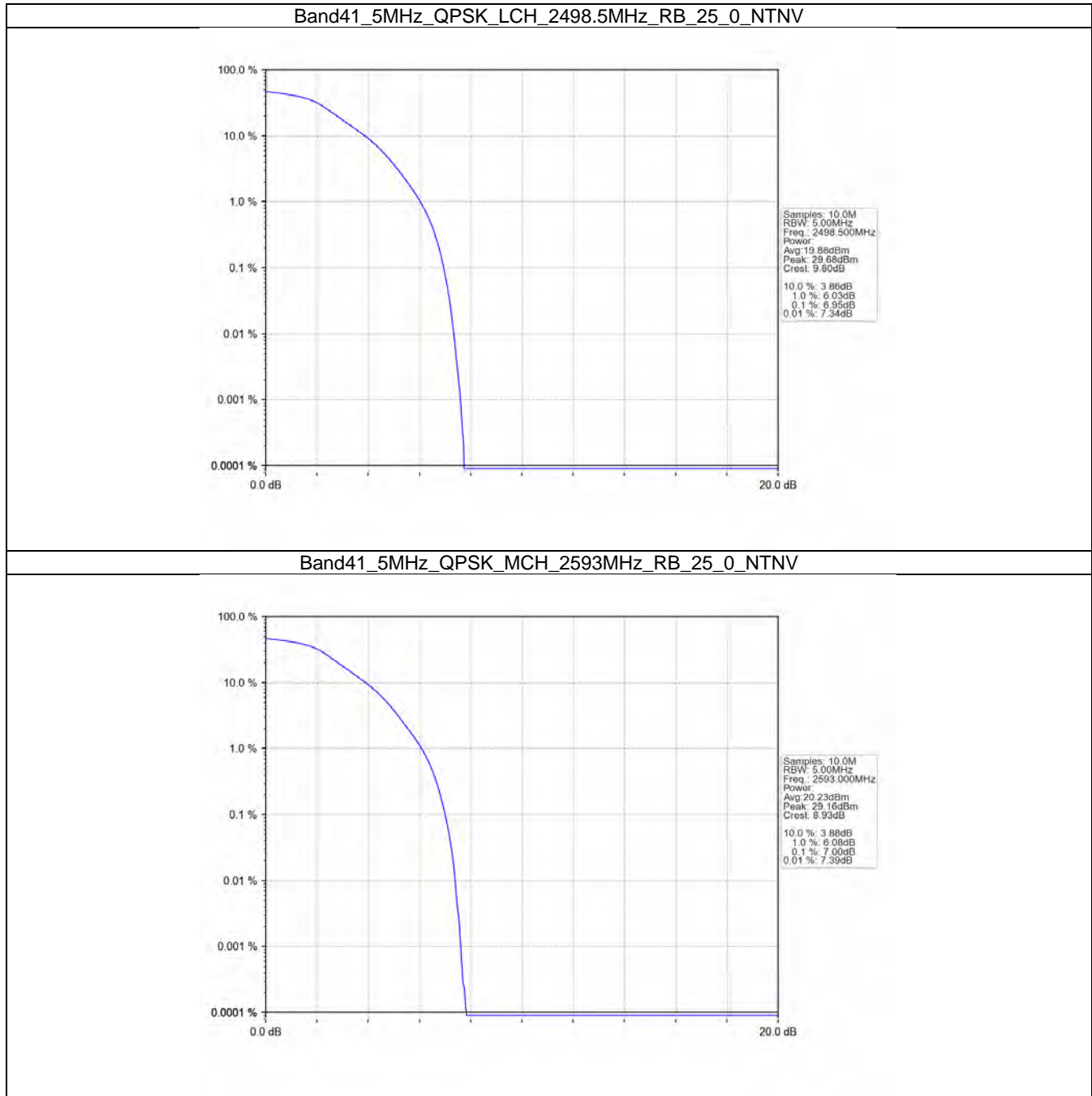
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5.1.2 Test Graph



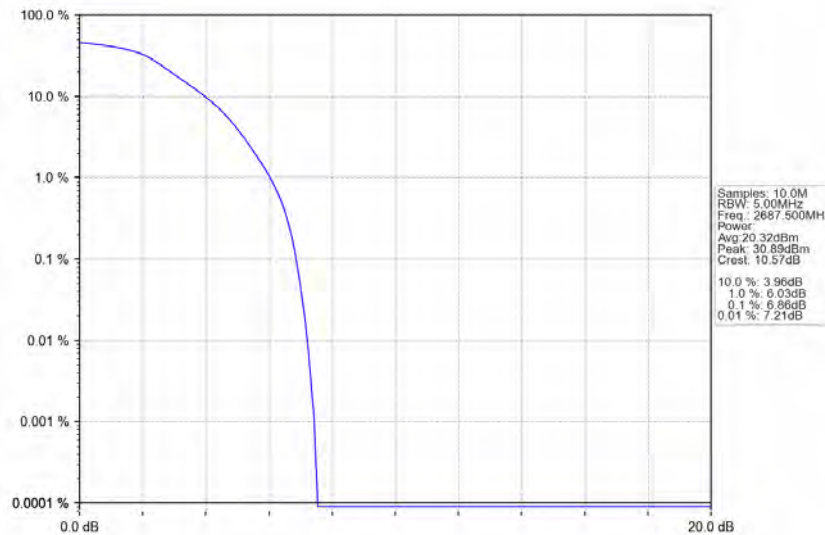
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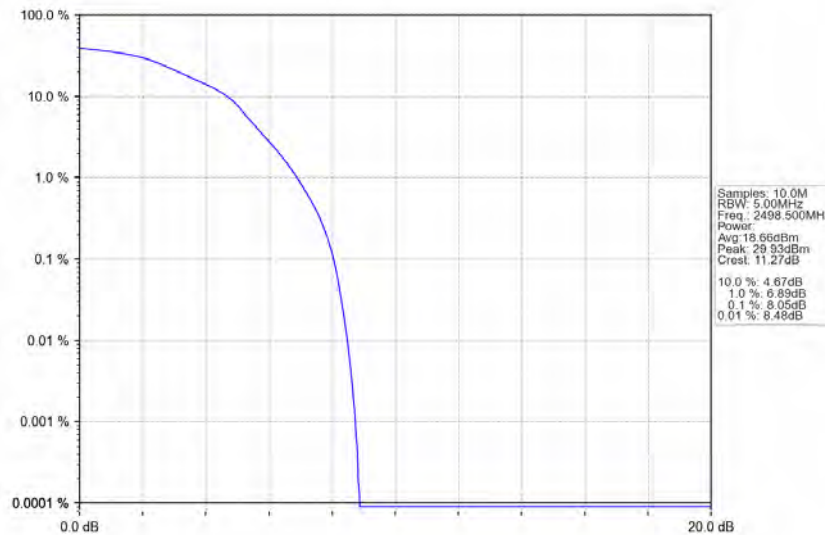
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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV



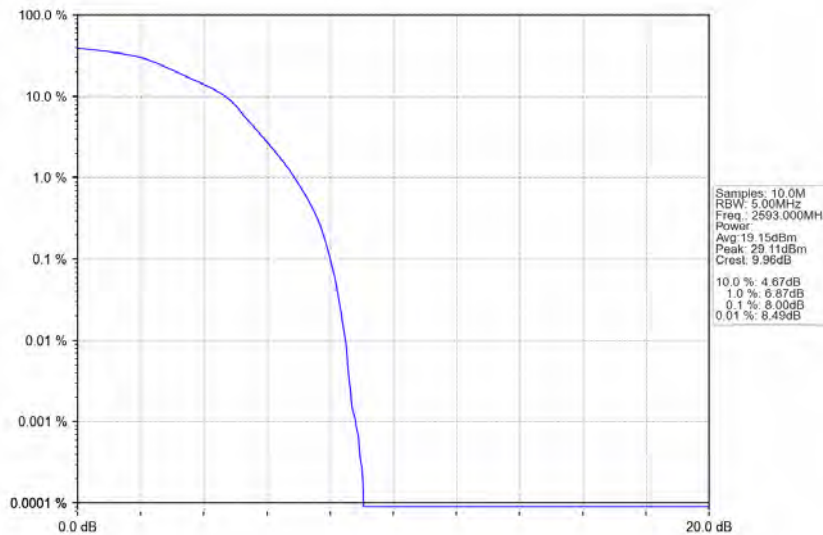
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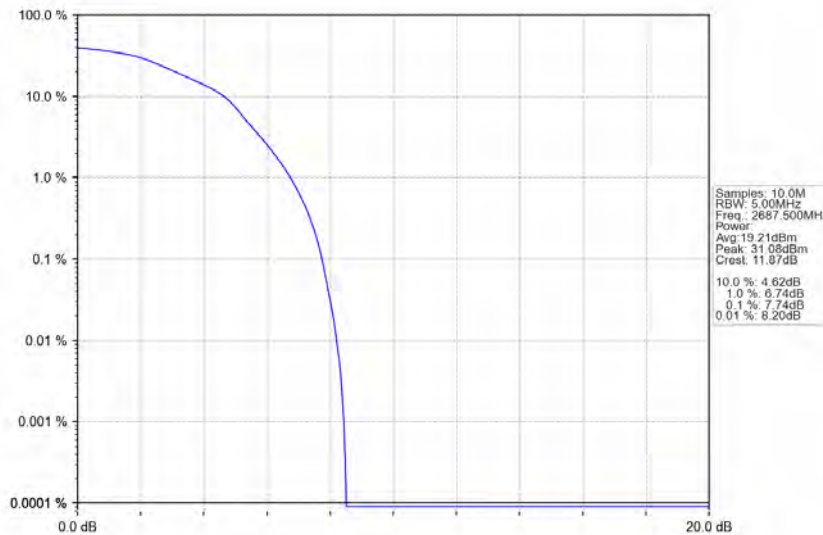
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Band41_5MHz_16QAM_MCH_2593MHz_RB_25_0_NTNV



Band41_5MHz_16QAM_HCH_2687.5MHz_RB_25_0_NTNV



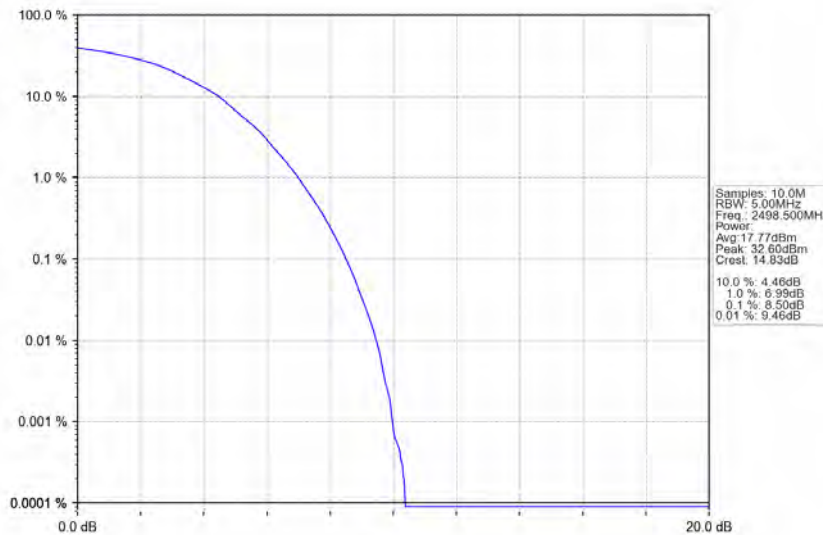
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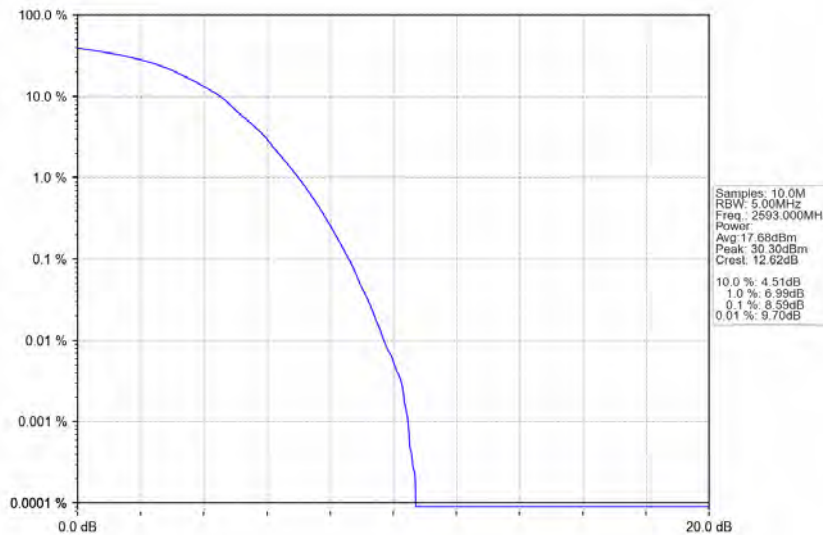
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Band41_5MHz_64QAM_MCH_2593MHz_RB_25_0_NTNV



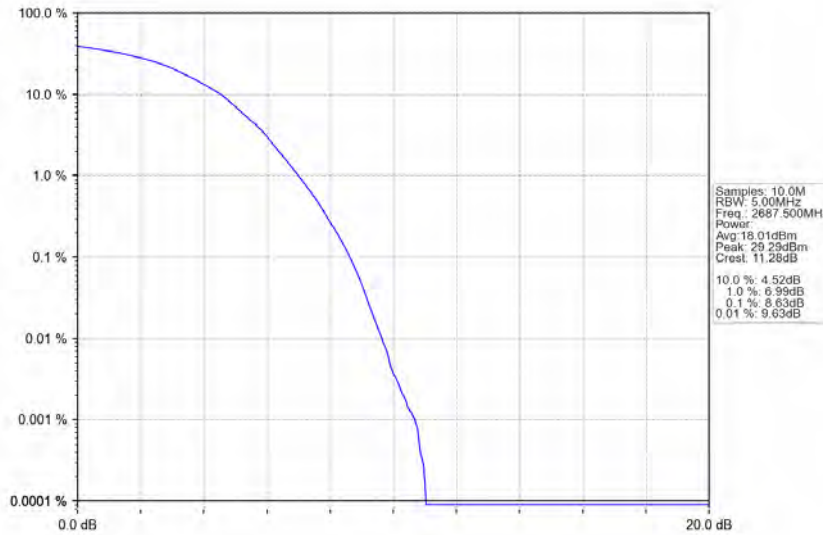
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Band41_5MHz_64QAM_HCH_2687.5MHz_RB_25_0_NTNV



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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	7.44	<=13	Pass
	2593	50	0	7.41	<=13	Pass
	2685	50	0	7.40	<=13	Pass
16QAM	2501	50	0	8.43	<=13	Pass
	2593	50	0	8.34	<=13	Pass
	2685	50	0	8.55	<=13	Pass
64QAM	2501	50	0	8.65	<=13	Pass
	2593	50	0	8.64	<=13	Pass
	2685	50	0	8.72	<=13	Pass

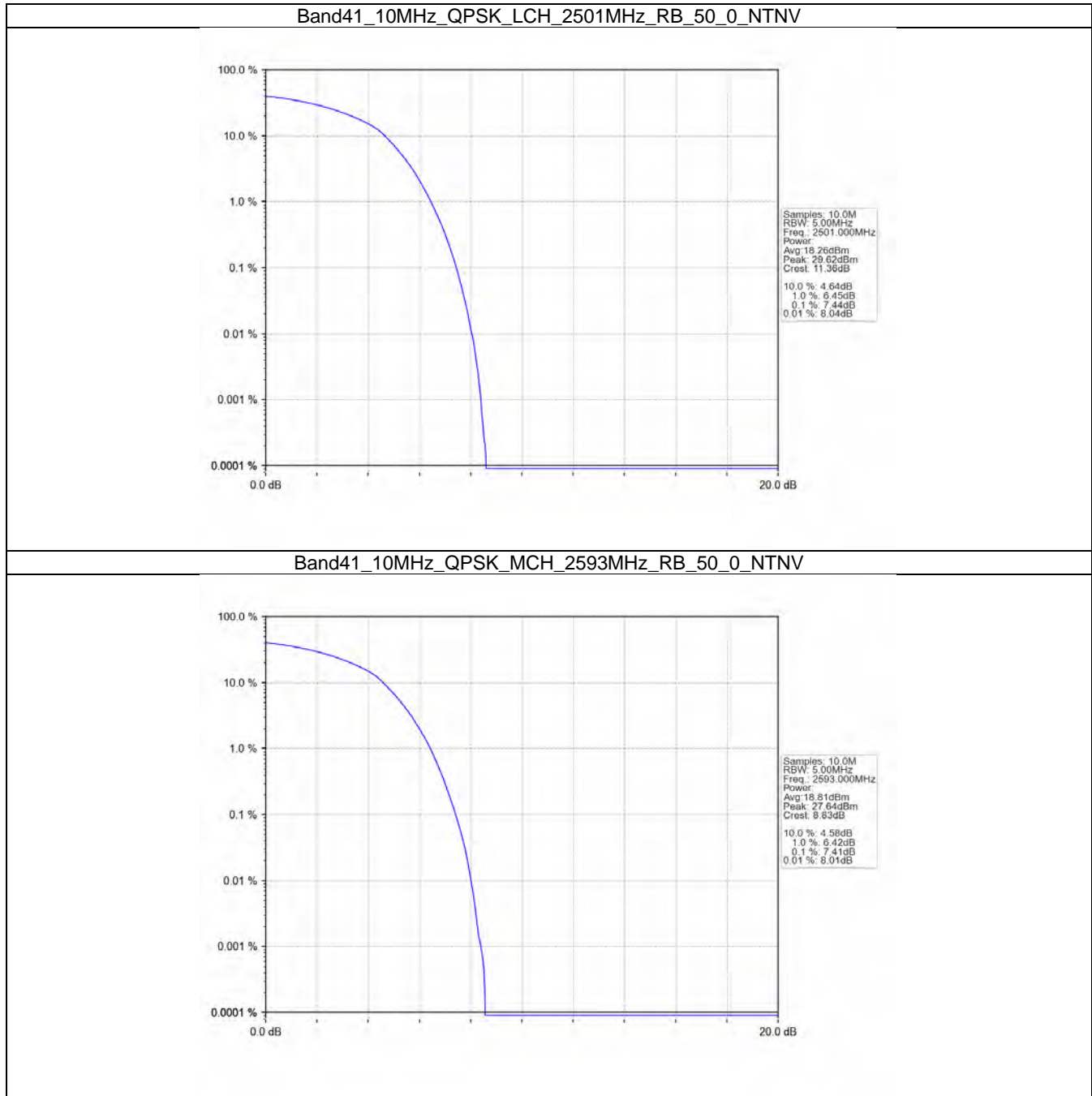


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5.2.2 Test Graph



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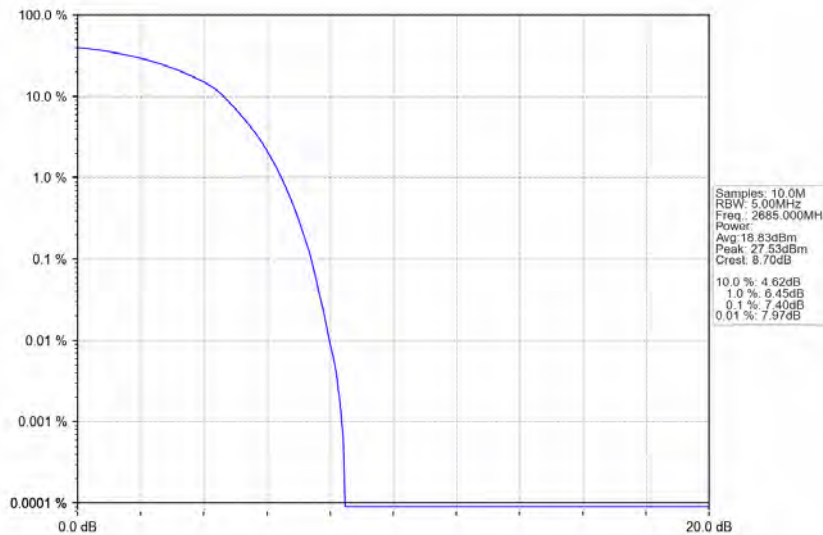
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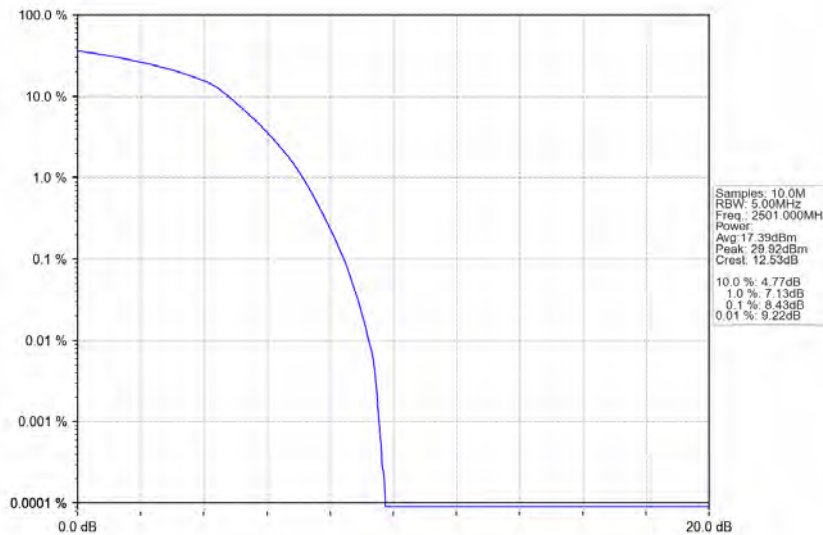
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Band41_10MHz_16QAM_LCH_2501MHz_RB_50_0_NTNV



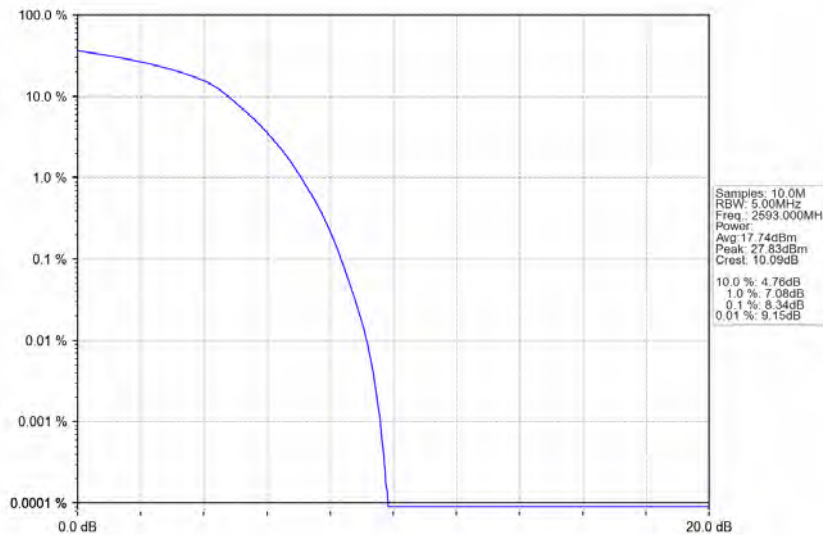
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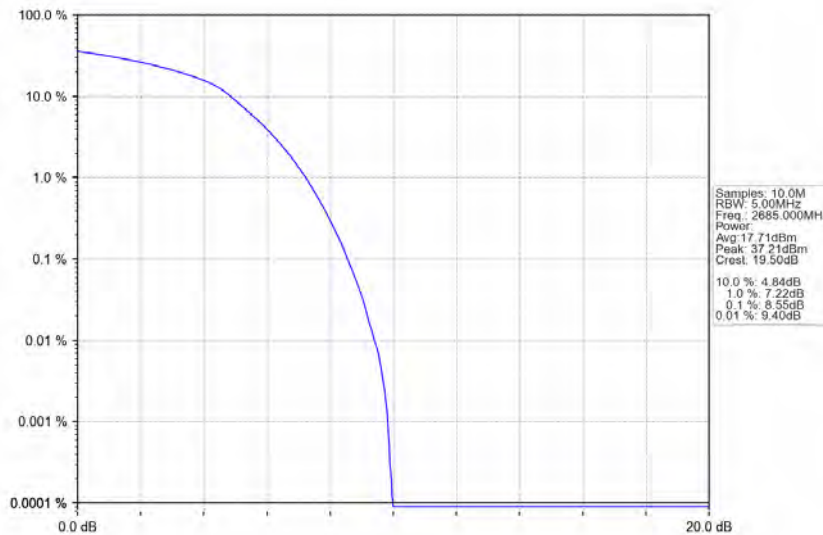
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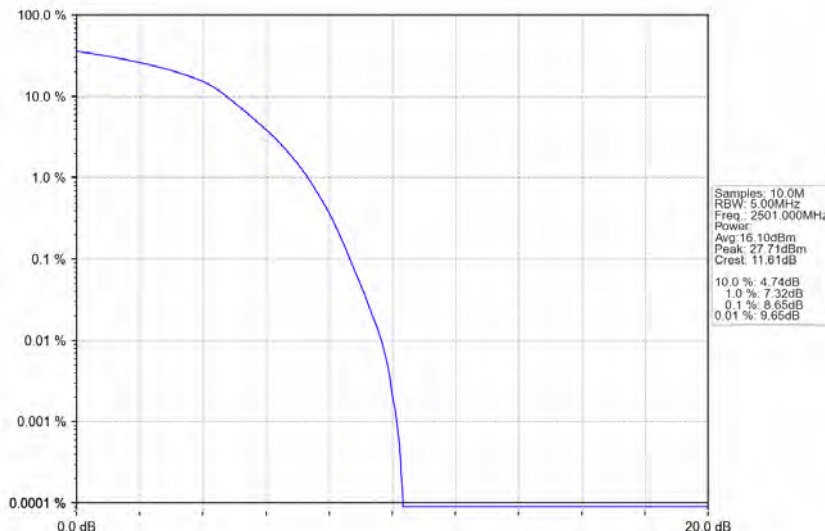
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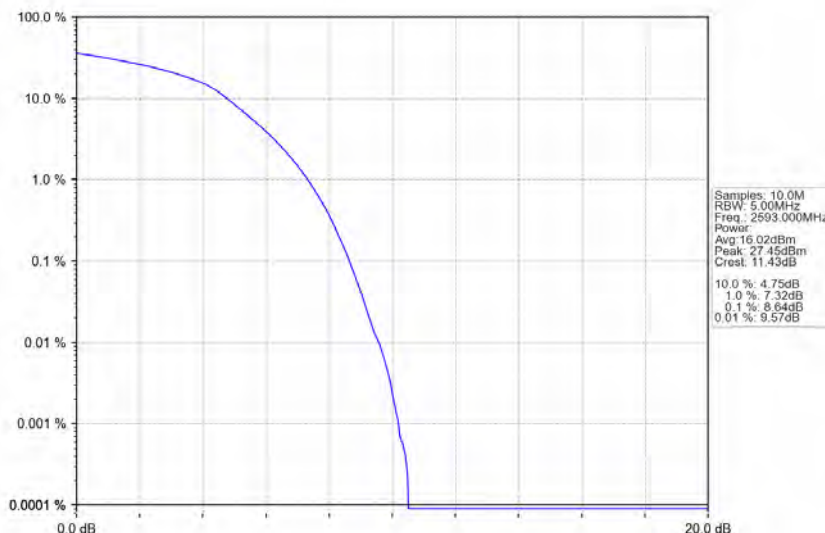
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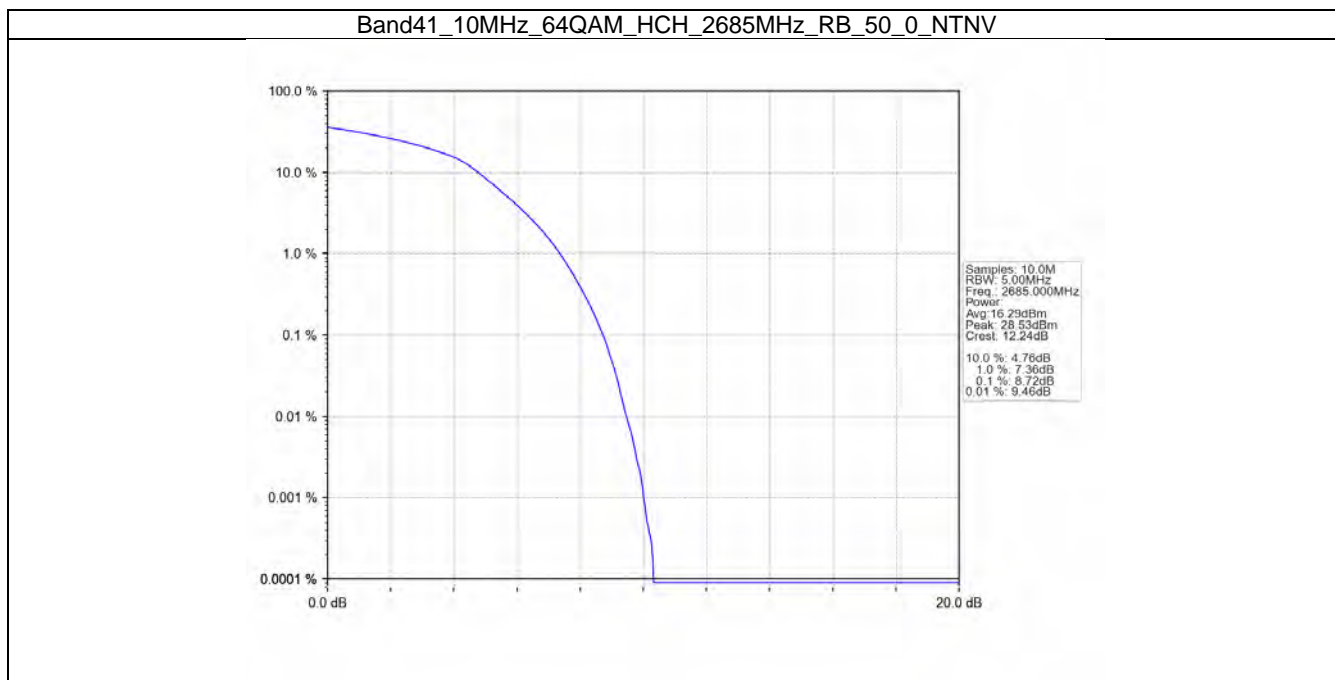
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5.3 B41_15MHz

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	8.30	<=13	Pass
	2593	75	0	8.33	<=13	Pass
	2682.5	75	0	8.44	<=13	Pass
16QAM	2503.5	75	0	8.99	<=13	Pass
	2593	75	0	9.03	<=13	Pass
	2682.5	75	0	9.08	<=13	Pass
64QAM	2503.5	75	0	9.12	<=13	Pass
	2593	75	0	9.18	<=13	Pass
	2682.5	75	0	9.17	<=13	Pass



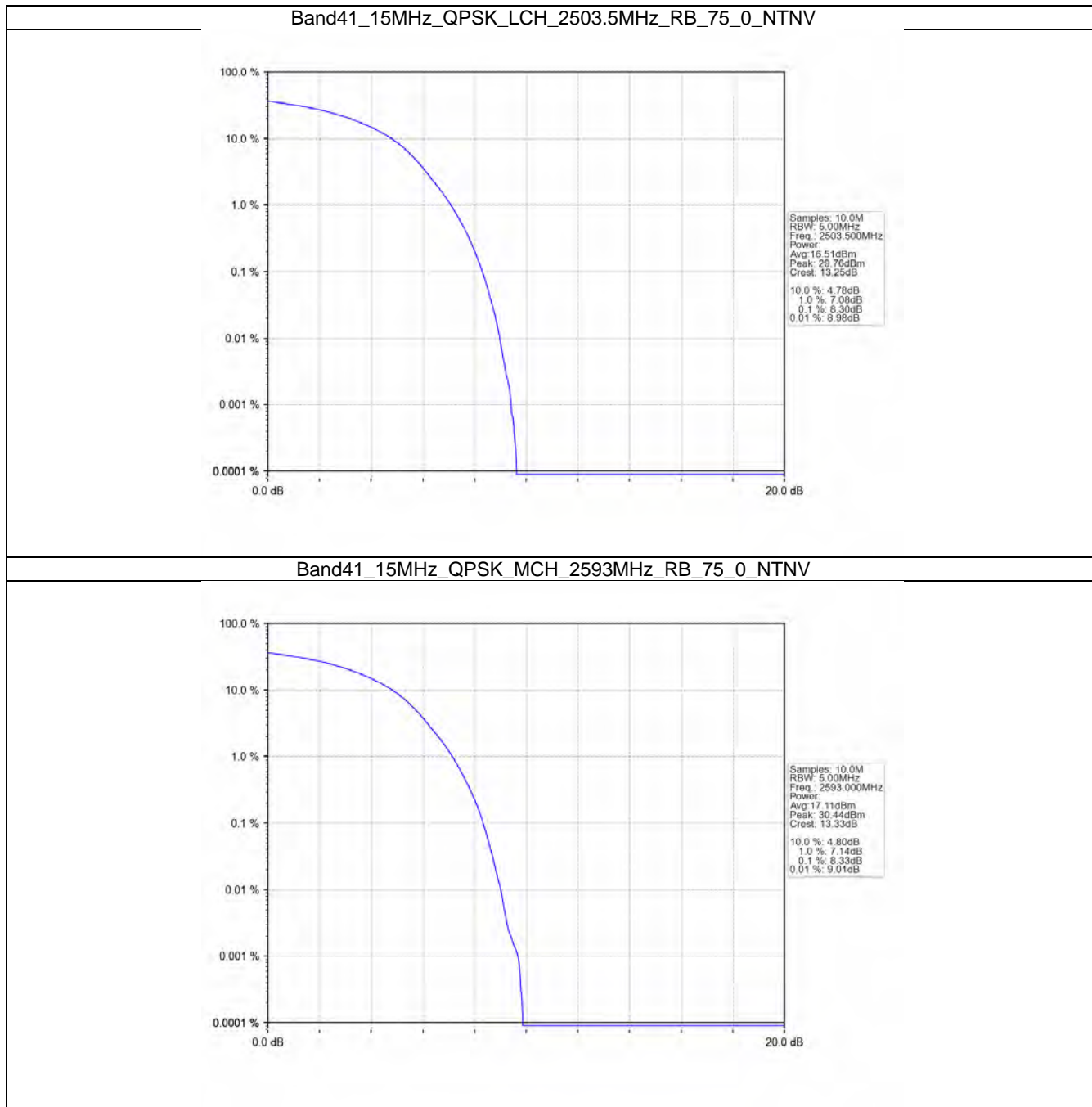
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5.3.2 Test Graph



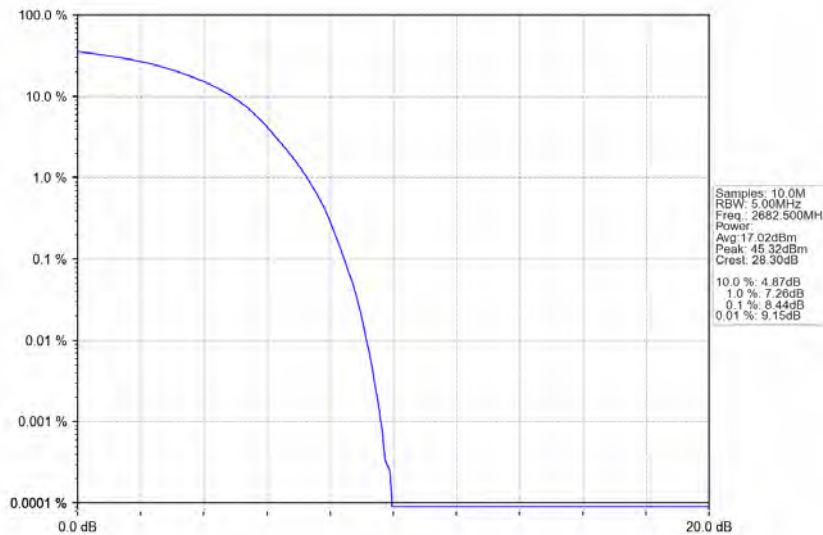
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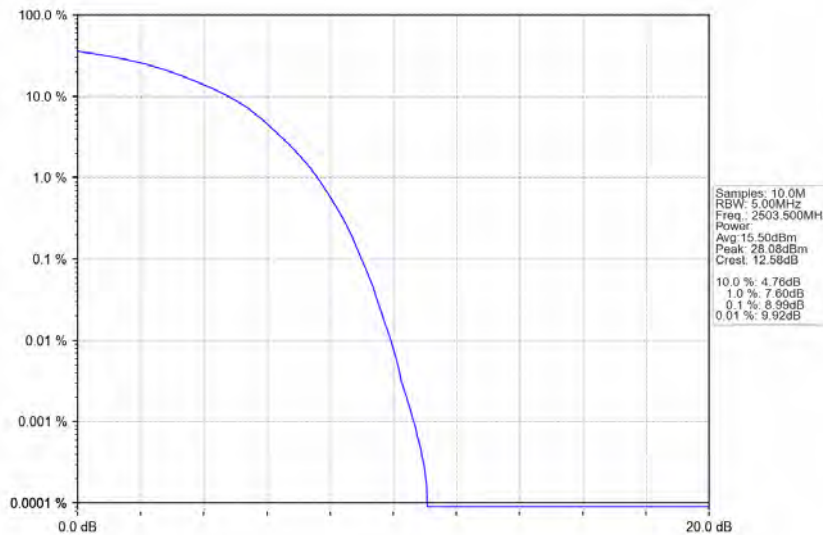
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Band41_15MHz_QPSK_HCH_2682.5MHz_RB_75_0_NTNV



Band41_15MHz_16QAM_LCH_2503.5MHz_RB_75_0_NTNV



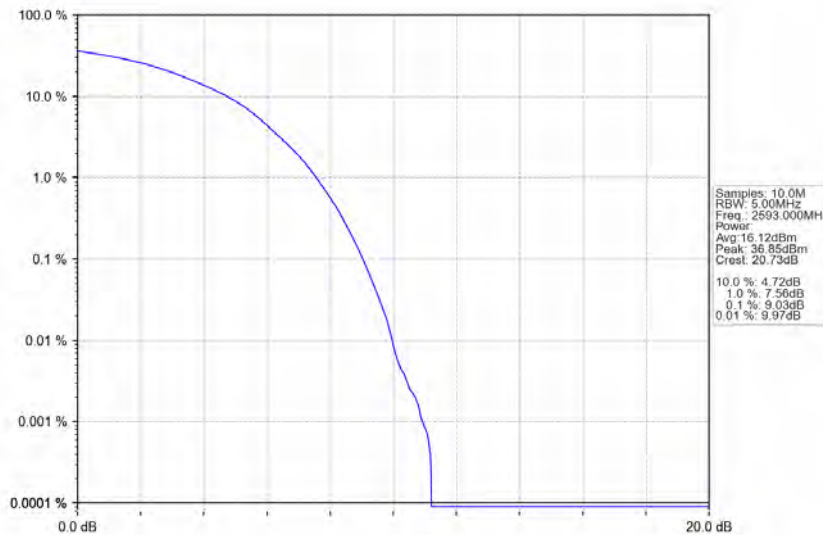
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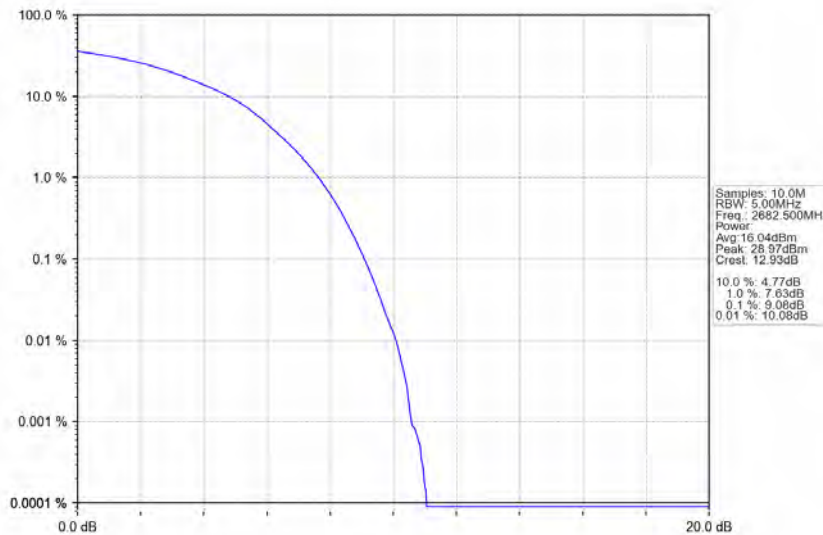
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Band41_15MHz_16QAM_HCH_2682.5MHz_RB_75_0_NTNV



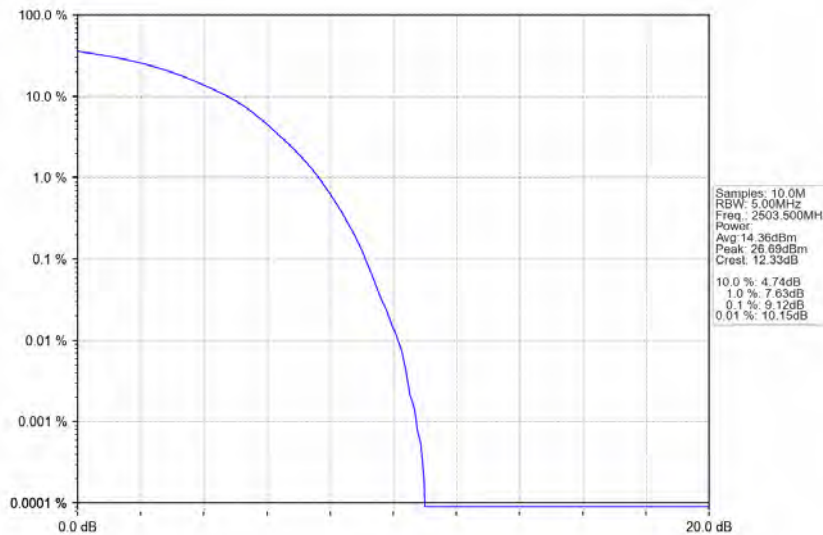
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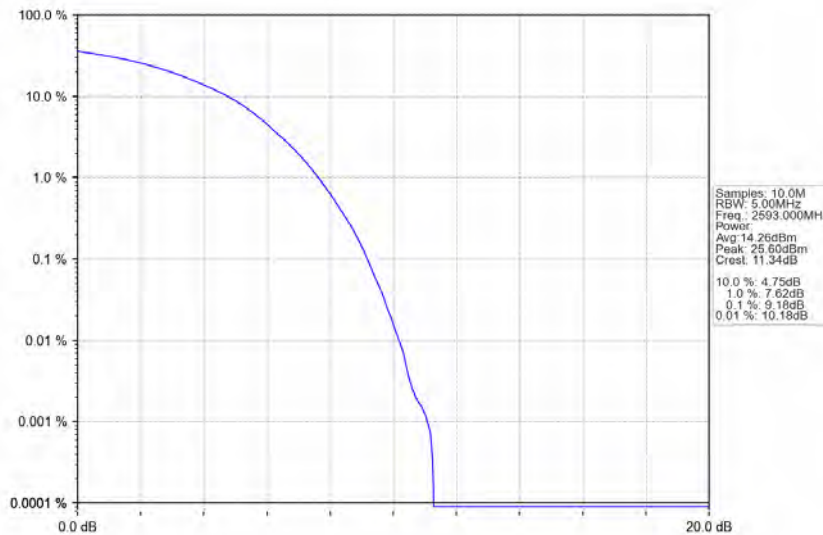
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Band41_15MHz_64QAM_LCH_2503.5MHz_RB_75_0_NTNV



Band41_15MHz_64QAM_MCH_2593MHz_RB_75_0_NTNV



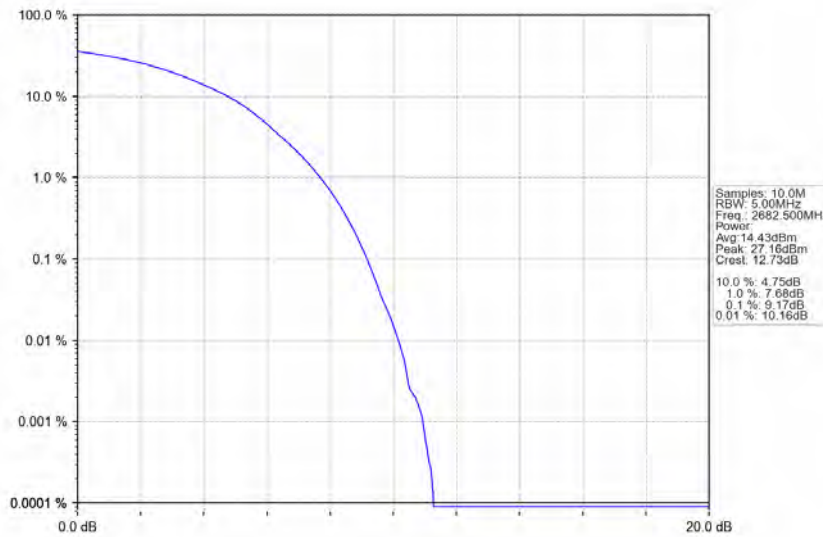
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5.4 B41_20MHz

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	8.82	<=13	Pass
	2593	100	0	8.81	<=13	Pass
	2680	100	0	8.83	<=13	Pass
16QAM	2506	100	0	9.27	<=13	Pass
	2593	100	0	9.35	<=13	Pass
	2680	100	0	9.27	<=13	Pass
64QAM	2506	100	0	9.35	<=13	Pass
	2593	100	0	9.35	<=13	Pass
	2680	100	0	9.41	<=13	Pass

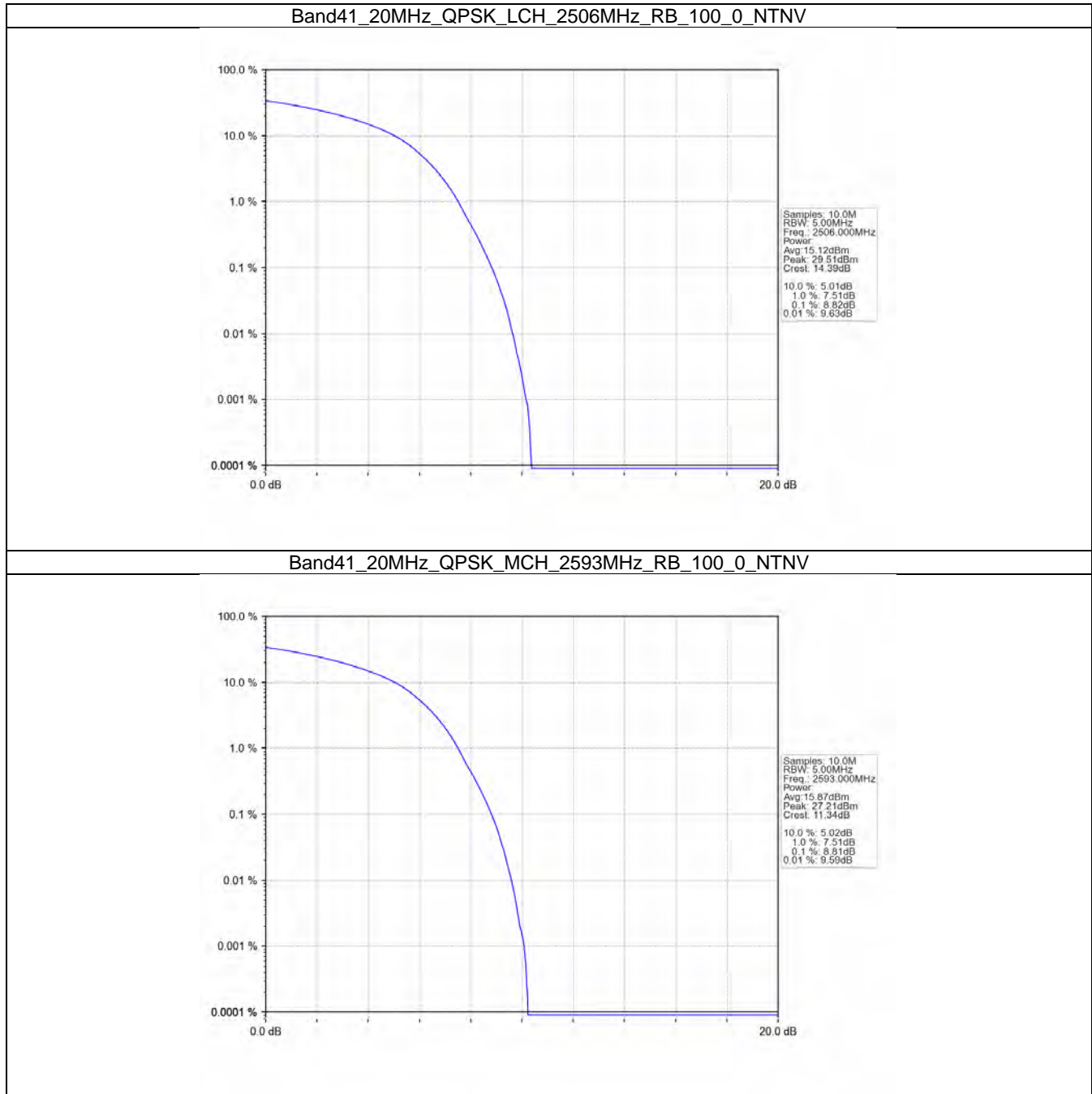


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5.4.2 Test Graph



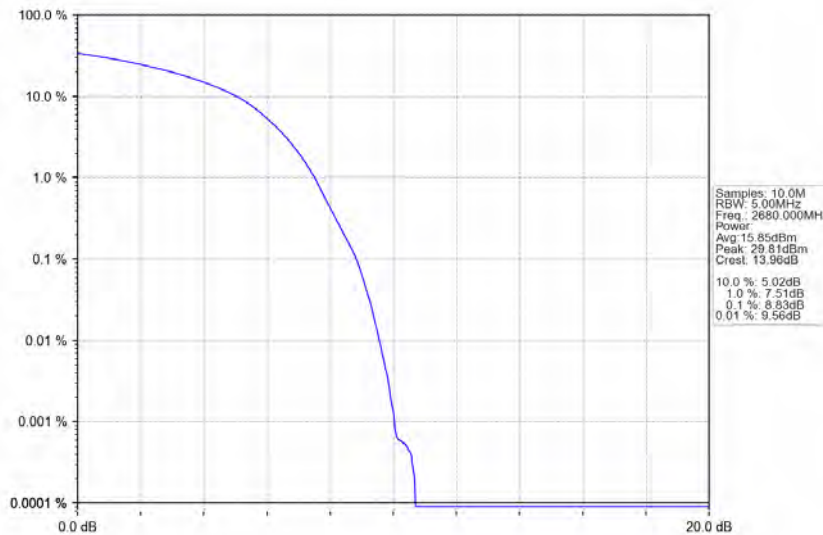
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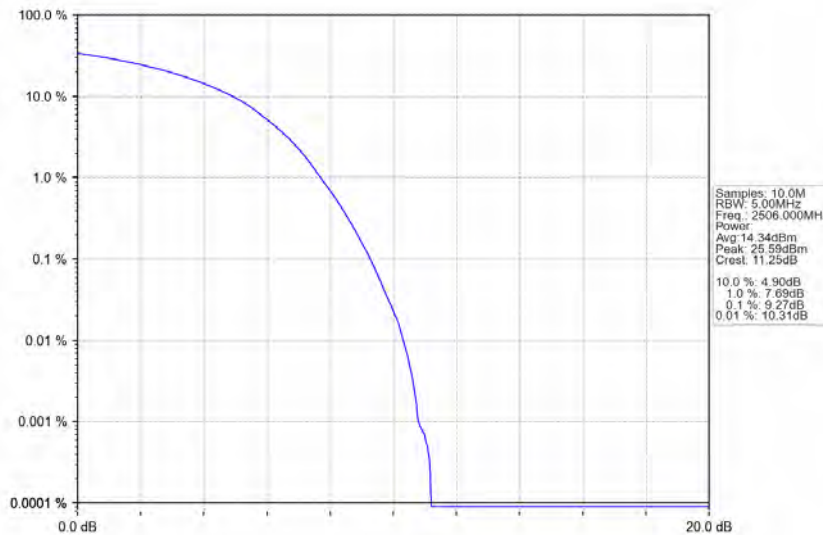
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Band41_20MHz_QPSK_HCH_2680MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_LCH_2506MHz_RB_100_0_NTNV



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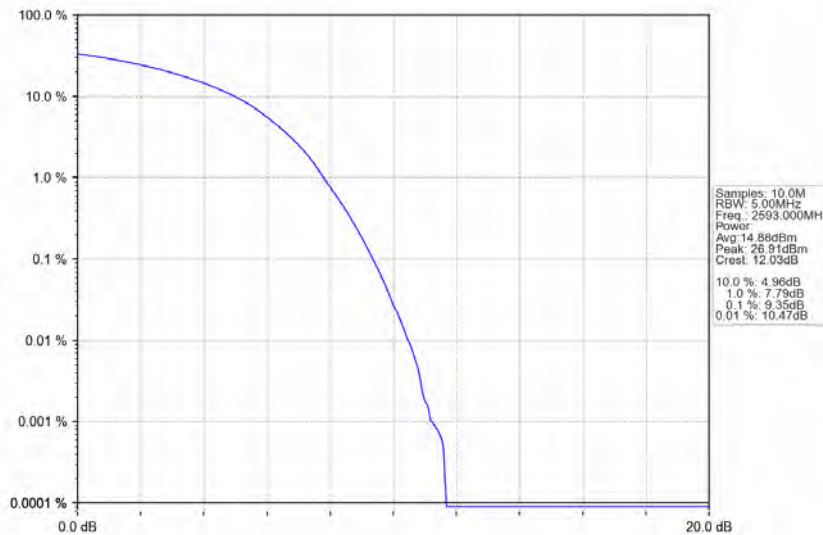
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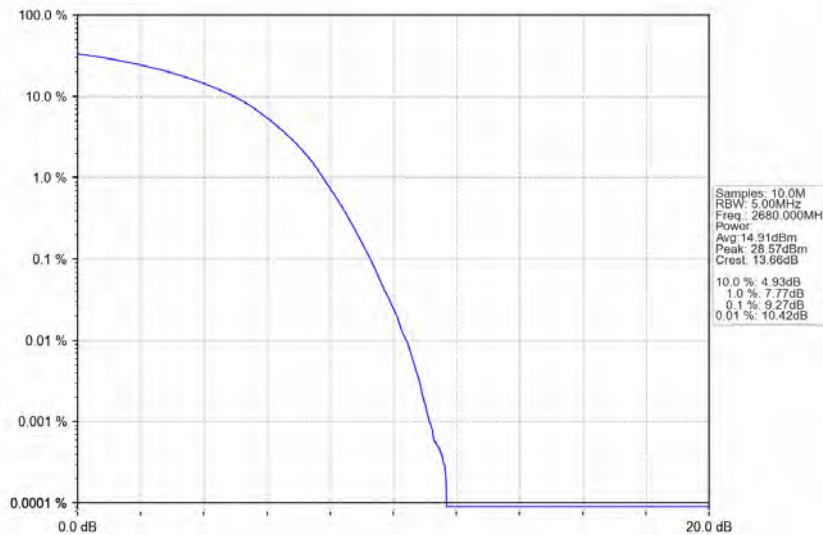
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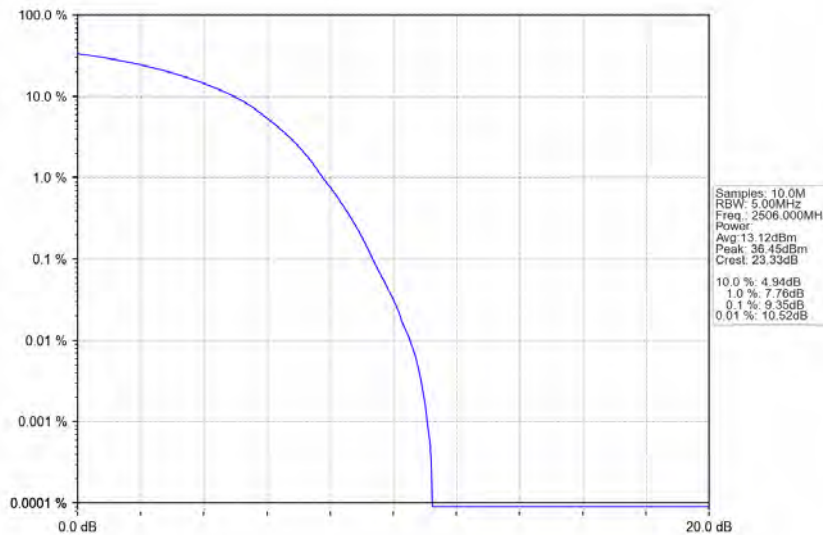
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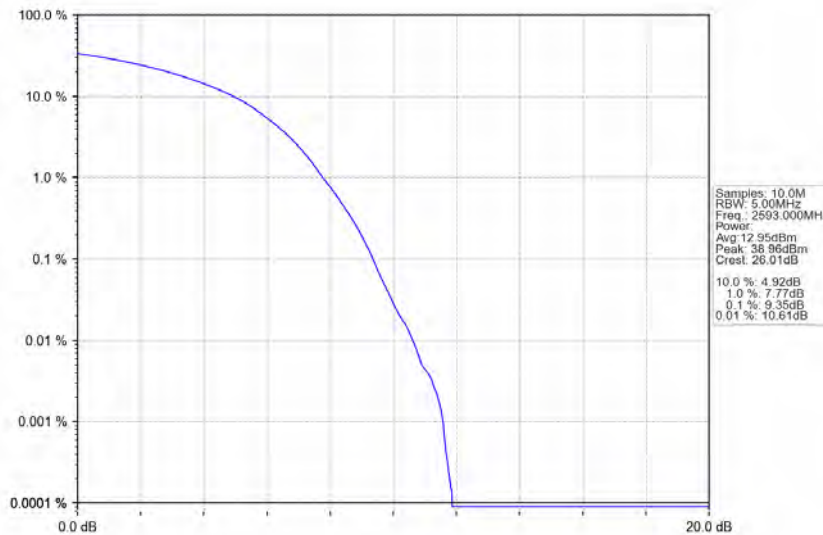
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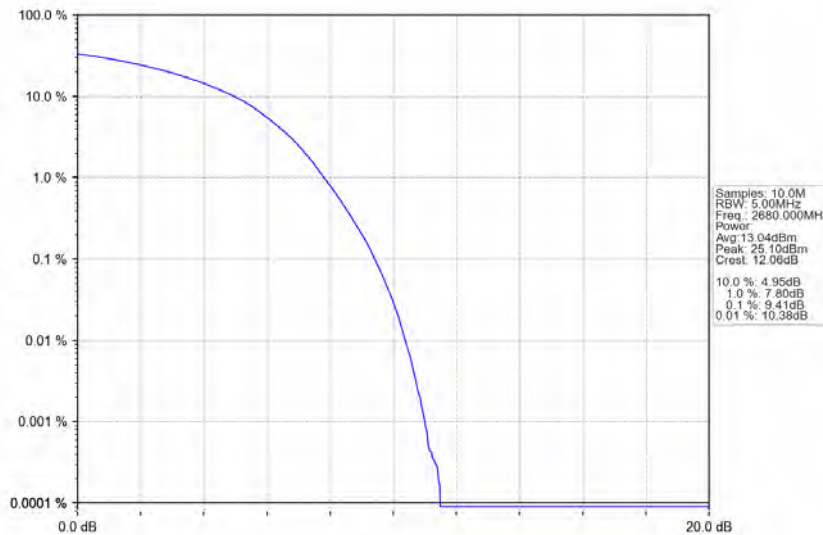
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6. Spurious Emission

6.1 B41_5MHz

6.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTVN							
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict	
		Size	Offset	Result	Limit		
QPSK	2498.5	1	0	Refer To Test Graph		Pass	
		25	0	Refer To Test Graph		Pass	
	2687.5	2593	1	0	Refer To Test Graph		Pass
			25	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass	
			24	Refer To Test Graph		Pass	
16QAM	2498.5	1	0	Refer To Test Graph		Pass	
		25	0	Refer To Test Graph		Pass	
	2687.5	2593	1	0	Refer To Test Graph		Pass
			25	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass	
			24	Refer To Test Graph		Pass	
64QAM	2498.5	1	0	Refer To Test Graph		Pass	
		25	0	Refer To Test Graph		Pass	
	2687.5	2593	1	0	Refer To Test Graph		Pass
			25	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass	
			24	Refer To Test Graph		Pass	



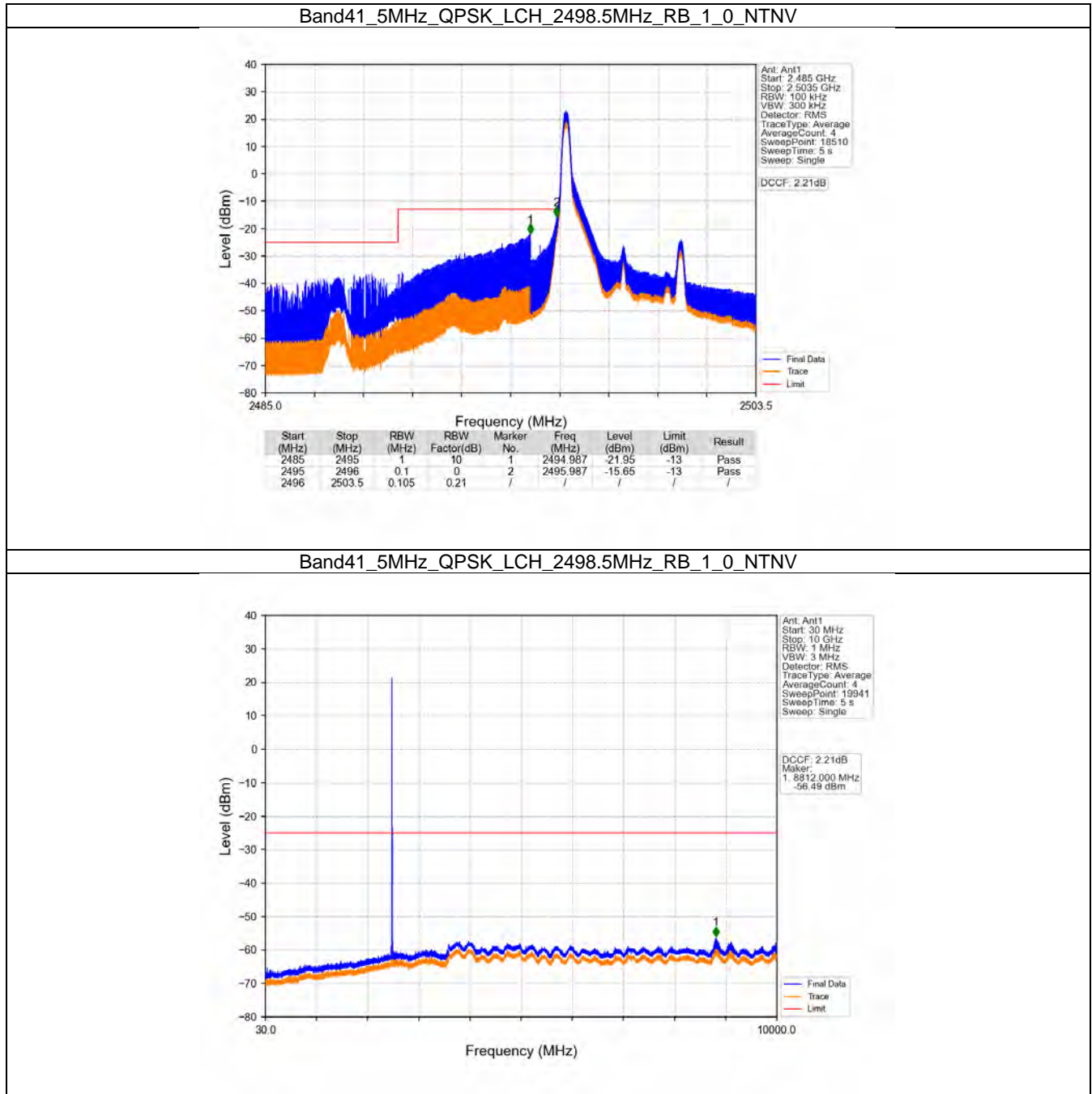
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6.1.2 Test Graph

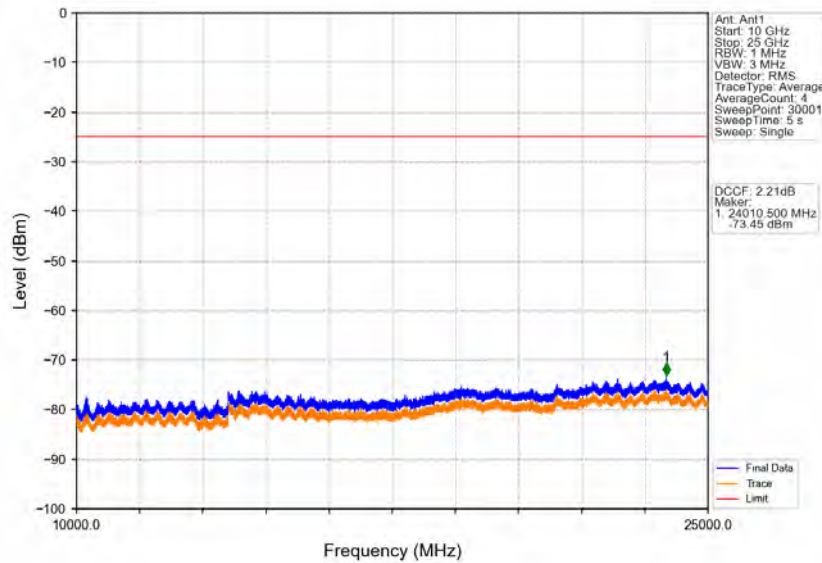


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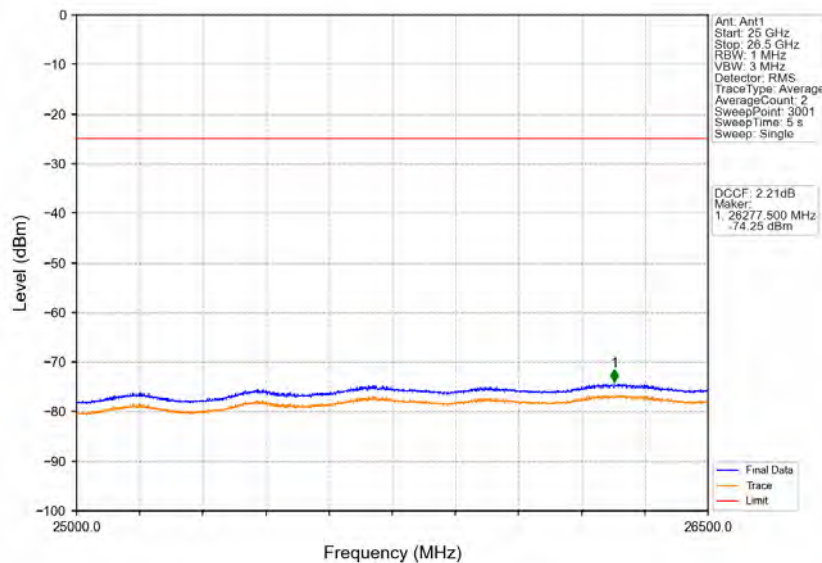
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Band41_5MHz_QPSK_LCH_2498.5MHz_RB_1_0_NTNV



Band41_5MHz_QPSK_LCH_2498.5MHz_RB_1_0_NTNV



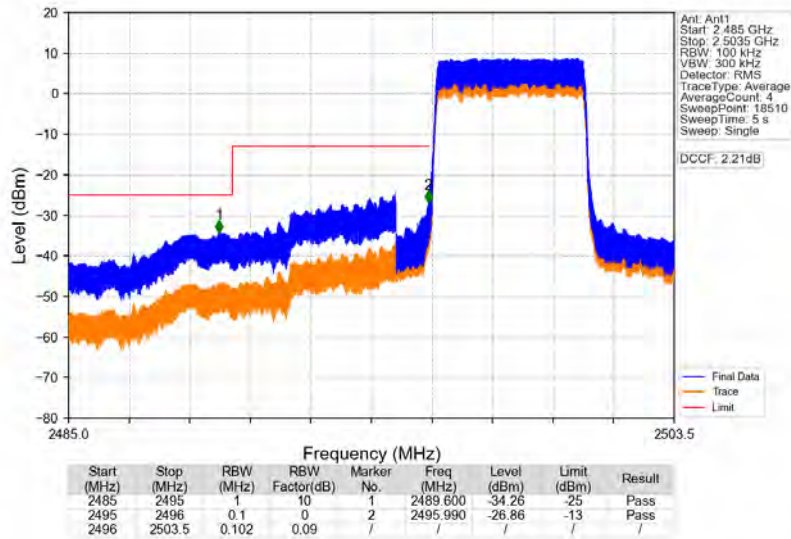
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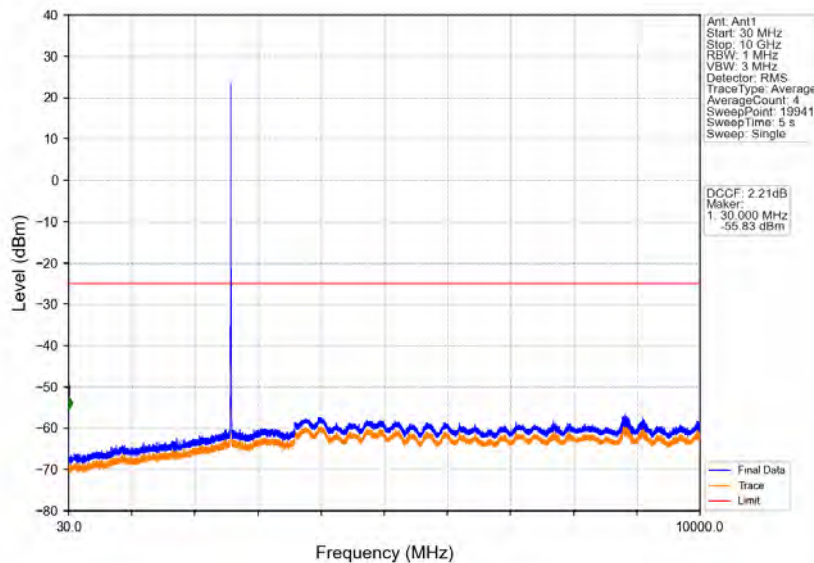
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Band41_5MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



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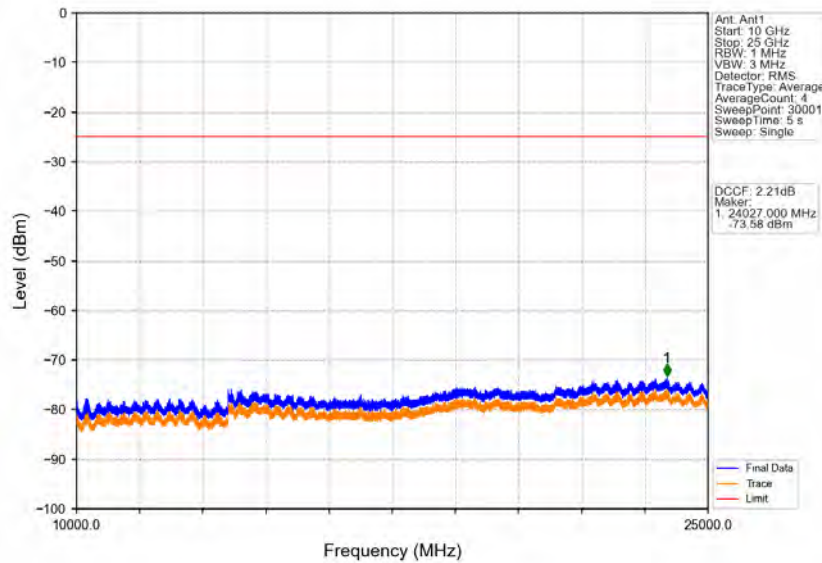
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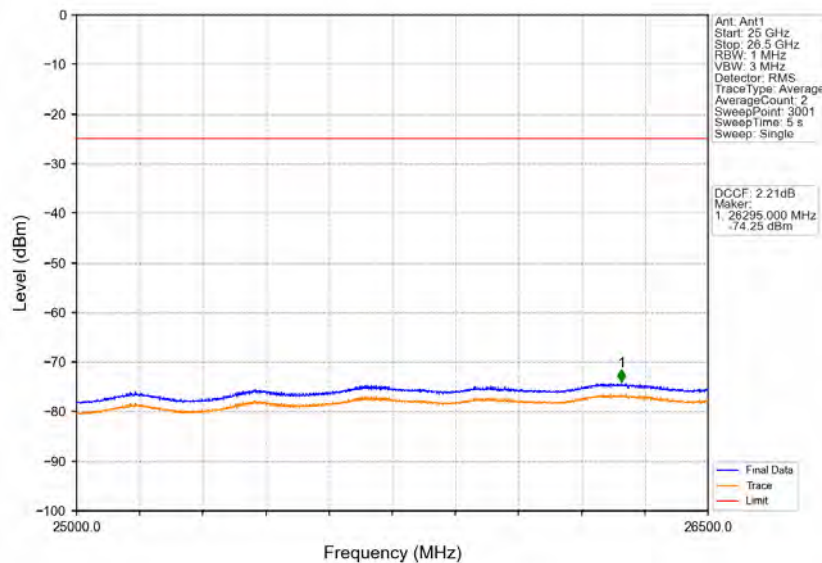


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