



Appendix A.14

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B41_5MHz_EIRP

Band: 41 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2498.5	1	0	25.91	2.20	28.11	<=33.01	Pass
			13	25.98	2.20	28.18	<=33.01	Pass
			24	25.94	2.20	28.14	<=33.01	Pass
		12	0	25.06	2.20	27.26	<=33.01	Pass
			6	25.05	2.20	27.25	<=33.01	Pass
			13	25.02	2.20	27.22	<=33.01	Pass
		25	0	25.08	2.20	27.28	<=33.01	Pass
	2593	1	0	25.82	2.20	28.02	<=33.01	Pass
			13	25.92	2.20	28.12	<=33.01	Pass
			24	25.90	2.20	28.10	<=33.01	Pass
		12	0	25.06	2.20	27.26	<=33.01	Pass
			6	25.05	2.20	27.25	<=33.01	Pass
			13	24.96	2.20	27.16	<=33.01	Pass
		25	0	25.01	2.20	27.21	<=33.01	Pass
	2687.5	1	0	25.83	2.20	28.03	<=33.01	Pass
			13	25.89	2.20	28.09	<=33.01	Pass
			24	25.95	2.20	28.15	<=33.01	Pass
		12	0	25.04	2.20	27.24	<=33.01	Pass
			6	25.04	2.20	27.24	<=33.01	Pass
			13	25.05	2.20	27.25	<=33.01	Pass
		25	0	25.07	2.20	27.27	<=33.01	Pass
16QAM	2498.5	1	0	25.26	2.20	27.46	<=33.01	Pass
			13	25.32	2.20	27.52	<=33.01	Pass
			24	25.19	2.20	27.39	<=33.01	Pass
		12	0	24.20	2.20	26.40	<=33.01	Pass
			6	24.17	2.20	26.37	<=33.01	Pass
			13	24.05	2.20	26.25	<=33.01	Pass
		25	0	24.16	2.20	26.36	<=33.01	Pass
	2593	1	0	25.14	2.20	27.34	<=33.01	Pass
			13	25.12	2.20	27.32	<=33.01	Pass
			24	25.19	2.20	27.39	<=33.01	Pass
		12	0	24.15	2.20	26.35	<=33.01	Pass
			6	24.18	2.20	26.38	<=33.01	Pass
			13	24.11	2.20	26.31	<=33.01	Pass
		25	0	24.13	2.20	26.33	<=33.01	Pass
	2687.5	1	0	25.22	2.20	27.42	<=33.01	Pass
			13	25.22	2.20	27.42	<=33.01	Pass
			24	25.28	2.20	27.48	<=33.01	Pass
		12	0	24.07	2.20	26.27	<=33.01	Pass
			6	24.12	2.20	26.32	<=33.01	Pass



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64QAM	2498.5	25	13	24.17	2.20	26.37	<=33.01	Pass
			0	24.16	2.20	26.36	<=33.01	Pass
	2498.5	1	0	25.27	2.20	27.47	<=33.01	Pass
			13	25.41	2.20	27.61	<=33.01	Pass
			24	25.25	2.20	27.45	<=33.01	Pass
		12	0	24.14	2.20	26.34	<=33.01	Pass
			6	24.14	2.20	26.34	<=33.01	Pass
			13	24.16	2.20	26.36	<=33.01	Pass
	2593	25	0	24.11	2.20	26.31	<=33.01	Pass
			0	25.14	2.20	27.34	<=33.01	Pass
			13	25.23	2.20	27.43	<=33.01	Pass
		1	24	25.30	2.20	27.50	<=33.01	Pass
			0	24.10	2.20	26.30	<=33.01	Pass
			6	24.11	2.20	26.31	<=33.01	Pass
			13	24.13	2.20	26.33	<=33.01	Pass
		12	0	24.09	2.20	26.29	<=33.01	Pass
			0	25.24	2.20	27.44	<=33.01	Pass
			13	25.41	2.20	27.61	<=33.01	Pass
	2687.5	1	24	25.33	2.20	27.53	<=33.01	Pass
			0	24.19	2.20	26.39	<=33.01	Pass
			6	24.15	2.20	26.35	<=33.01	Pass
		12	13	24.11	2.20	26.31	<=33.01	Pass
			0	24.05	2.20	26.25	<=33.01	Pass
256QAM	2498.5	1	0	21.21	2.20	23.41	<=33.01	Pass
			13	21.27	2.20	23.47	<=33.01	Pass
			24	21.08	2.20	23.28	<=33.01	Pass
		12	0	21.32	2.20	23.52	<=33.01	Pass
			6	21.36	2.20	23.56	<=33.01	Pass
			13	21.26	2.20	23.46	<=33.01	Pass
	2593	25	0	21.28	2.20	23.48	<=33.01	Pass
			0	21.16	2.20	23.36	<=33.01	Pass
			13	21.23	2.20	23.43	<=33.01	Pass
		1	24	21.09	2.20	23.29	<=33.01	Pass
			0	21.28	2.20	23.48	<=33.01	Pass
			6	21.35	2.20	23.55	<=33.01	Pass
			13	21.24	2.20	23.44	<=33.01	Pass
		12	0	21.27	2.20	23.47	<=33.01	Pass
			0	21.17	2.20	23.37	<=33.01	Pass
			13	21.22	2.20	23.42	<=33.01	Pass
	2687.5	1	24	21.21	2.20	23.41	<=33.01	Pass
			0	21.28	2.20	23.48	<=33.01	Pass
			6	21.32	2.20	23.52	<=33.01	Pass
		12	13	21.29	2.20	23.49	<=33.01	Pass
			0	21.23	2.20	23.43	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B41_10MHz_EIRP

Band: 41 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	



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QPSK	2501	1	0	25.82	2.20	28.02	<=33.01	Pass
			25	25.77	2.20	27.97	<=33.01	Pass
			49	25.75	2.20	27.95	<=33.01	Pass
		25	0	25.11	2.20	27.31	<=33.01	Pass
			13	25.09	2.20	27.29	<=33.01	Pass
			25	25.08	2.20	27.28	<=33.01	Pass
		50	0	25.12	2.20	27.32	<=33.01	Pass
	2593	1	0	25.87	2.20	28.07	<=33.01	Pass
			25	25.73	2.20	27.93	<=33.01	Pass
			49	25.76	2.20	27.96	<=33.01	Pass
		25	0	25.07	2.20	27.27	<=33.01	Pass
			13	25.09	2.20	27.29	<=33.01	Pass
			25	25.04	2.20	27.24	<=33.01	Pass
		50	0	25.09	2.20	27.29	<=33.01	Pass
	2685	1	0	25.80	2.20	28.00	<=33.01	Pass
			25	25.75	2.20	27.95	<=33.01	Pass
			49	25.76	2.20	27.96	<=33.01	Pass
		25	0	25.06	2.20	27.26	<=33.01	Pass
			13	25.10	2.20	27.30	<=33.01	Pass
			25	25.05	2.20	27.25	<=33.01	Pass
		50	0	25.12	2.20	27.32	<=33.01	Pass
16QAM	2501	1	0	25.45	2.20	27.65	<=33.01	Pass
			25	25.42	2.20	27.62	<=33.01	Pass
			49	25.30	2.20	27.50	<=33.01	Pass
		25	0	24.12	2.20	26.32	<=33.01	Pass
			13	24.12	2.20	26.32	<=33.01	Pass
			25	24.13	2.20	26.33	<=33.01	Pass
		50	0	24.18	2.20	26.38	<=33.01	Pass
	2593	1	0	25.35	2.20	27.55	<=33.01	Pass
			25	25.22	2.20	27.42	<=33.01	Pass
			49	25.28	2.20	27.48	<=33.01	Pass
		25	0	24.16	2.20	26.36	<=33.01	Pass
			13	24.20	2.20	26.40	<=33.01	Pass
			25	24.16	2.20	26.36	<=33.01	Pass
		50	0	24.13	2.20	26.33	<=33.01	Pass
	2685	1	0	25.32	2.20	27.52	<=33.01	Pass
			25	25.20	2.20	27.40	<=33.01	Pass
			49	25.25	2.20	27.45	<=33.01	Pass
		25	0	24.14	2.20	26.34	<=33.01	Pass
			13	24.21	2.20	26.41	<=33.01	Pass
			25	24.16	2.20	26.36	<=33.01	Pass
		50	0	24.10	2.20	26.30	<=33.01	Pass
64QAM	2501	1	0	25.30	2.20	27.50	<=33.01	Pass
			25	25.15	2.20	27.35	<=33.01	Pass
			49	25.20	2.20	27.40	<=33.01	Pass
		25	0	24.12	2.20	26.32	<=33.01	Pass
			13	24.15	2.20	26.35	<=33.01	Pass
			25	24.07	2.20	26.27	<=33.01	Pass
		50	0	24.07	2.20	26.27	<=33.01	Pass
	2593	1	0	25.29	2.20	27.49	<=33.01	Pass
			25	25.14	2.20	27.34	<=33.01	Pass
			49	25.15	2.20	27.35	<=33.01	Pass
		25	0	24.07	2.20	26.27	<=33.01	Pass
			0	24.07	2.20	26.27	<=33.01	Pass



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		50	13	24.14	2.20	26.34	<=33.01	Pass
			25	24.09	2.20	26.29	<=33.01	Pass
			0	24.12	2.20	26.32	<=33.01	Pass
	2685	1	0	25.30	2.20	27.50	<=33.01	Pass
			25	25.19	2.20	27.39	<=33.01	Pass
			49	25.23	2.20	27.43	<=33.01	Pass
		25	0	24.08	2.20	26.28	<=33.01	Pass
			13	24.07	2.20	26.27	<=33.01	Pass
			25	24.13	2.20	26.33	<=33.01	Pass
		50	0	24.06	2.20	26.26	<=33.01	Pass
256QAM	2501	1	0	21.21	2.20	23.41	<=33.01	Pass
			25	21.12	2.20	23.32	<=33.01	Pass
			49	21.11	2.20	23.31	<=33.01	Pass
		25	0	21.16	2.20	23.36	<=33.01	Pass
			13	21.22	2.20	23.42	<=33.01	Pass
			25	21.15	2.20	23.35	<=33.01	Pass
		50	0	21.24	2.20	23.44	<=33.01	Pass
	2593	1	0	21.21	2.20	23.41	<=33.01	Pass
			25	21.13	2.20	23.33	<=33.01	Pass
			49	21.16	2.20	23.36	<=33.01	Pass
		25	0	21.14	2.20	23.34	<=33.01	Pass
			13	21.30	2.20	23.50	<=33.01	Pass
			25	21.15	2.20	23.35	<=33.01	Pass
		50	0	21.26	2.20	23.46	<=33.01	Pass
	2685	1	0	21.19	2.20	23.39	<=33.01	Pass
			25	21.09	2.20	23.29	<=33.01	Pass
			49	21.18	2.20	23.38	<=33.01	Pass
		25	0	21.12	2.20	23.32	<=33.01	Pass
			13	21.27	2.20	23.47	<=33.01	Pass
			25	21.25	2.20	23.45	<=33.01	Pass
		50	0	21.29	2.20	23.49	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B41_15MHz_EIRP

Band: 41 / Bandwidth: 15MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2503.5	1	0	25.77	2.20	27.97	<=33.01	Pass
			38	25.63	2.20	27.83	<=33.01	Pass
			74	25.69	2.20	27.89	<=33.01	Pass
		36	0	24.95	2.20	27.15	<=33.01	Pass
			18	24.96	2.20	27.16	<=33.01	Pass
			39	24.85	2.20	27.05	<=33.01	Pass
		75	0	24.90	2.20	27.10	<=33.01	Pass
	2593	1	0	25.85	2.20	28.05	<=33.01	Pass
			38	25.63	2.20	27.83	<=33.01	Pass
			74	25.67	2.20	27.87	<=33.01	Pass
		36	0	25.02	2.20	27.22	<=33.01	Pass
			18	24.97	2.20	27.17	<=33.01	Pass
			39	24.97	2.20	27.17	<=33.01	Pass

		75	0	24.95	2.20	27.15	<=33.01	Pass	
	2682.5	1	0	25.78	2.20	27.98	<=33.01	Pass	
			38	25.63	2.20	27.83	<=33.01	Pass	
			74	25.78	2.20	27.98	<=33.01	Pass	
			0	24.94	2.20	27.14	<=33.01	Pass	
		36	18	24.94	2.20	27.14	<=33.01	Pass	
			39	24.90	2.20	27.10	<=33.01	Pass	
75	0	24.95	2.20	27.15	<=33.01	Pass			
16QAM	2503.5	1	0	25.23	2.20	27.43	<=33.01	Pass	
			38	25.17	2.20	27.37	<=33.01	Pass	
			74	25.10	2.20	27.30	<=33.01	Pass	
		36	0	24.10	2.20	26.30	<=33.01	Pass	
			18	23.98	2.20	26.18	<=33.01	Pass	
			39	23.92	2.20	26.12	<=33.01	Pass	
		75	0	23.95	2.20	26.15	<=33.01	Pass	
	2593	1	0	25.28	2.20	27.48	<=33.01	Pass	
			38	25.11	2.20	27.31	<=33.01	Pass	
			74	25.19	2.20	27.39	<=33.01	Pass	
		36	0	24.02	2.20	26.22	<=33.01	Pass	
			18	24.01	2.20	26.21	<=33.01	Pass	
			39	23.98	2.20	26.18	<=33.01	Pass	
	75	0	24.09	2.20	26.29	<=33.01	Pass		
	2682.5	1	0	25.22	2.20	27.42	<=33.01	Pass	
			38	25.18	2.20	27.38	<=33.01	Pass	
			74	25.20	2.20	27.40	<=33.01	Pass	
		36	0	24.02	2.20	26.22	<=33.01	Pass	
			18	23.99	2.20	26.19	<=33.01	Pass	
			39	23.95	2.20	26.15	<=33.01	Pass	
	75	0	24.03	2.20	26.23	<=33.01	Pass		
	64QAM	2503.5	1	0	25.13	2.20	27.33	<=33.01	Pass
				38	25.10	2.20	27.30	<=33.01	Pass
				74	25.07	2.20	27.27	<=33.01	Pass
36			0	23.96	2.20	26.16	<=33.01	Pass	
			18	23.98	2.20	26.18	<=33.01	Pass	
			39	23.88	2.20	26.08	<=33.01	Pass	
75		0	23.91	2.20	26.11	<=33.01	Pass		
2593		1	0	25.31	2.20	27.51	<=33.01	Pass	
			38	25.11	2.20	27.31	<=33.01	Pass	
			74	25.18	2.20	27.38	<=33.01	Pass	
		36	0	24.05	2.20	26.25	<=33.01	Pass	
			18	24.01	2.20	26.21	<=33.01	Pass	
			39	24.02	2.20	26.22	<=33.01	Pass	
75		0	24.04	2.20	26.24	<=33.01	Pass		
2682.5		1	0	25.27	2.20	27.47	<=33.01	Pass	
			38	25.13	2.20	27.33	<=33.01	Pass	
			74	25.16	2.20	27.36	<=33.01	Pass	
		36	0	24.00	2.20	26.20	<=33.01	Pass	
			18	23.97	2.20	26.17	<=33.01	Pass	
			39	23.98	2.20	26.18	<=33.01	Pass	
		75	0	23.99	2.20	26.19	<=33.01	Pass	
	2503.5	1	0	21.04	2.20	23.24	<=33.01	Pass	
38			20.88	2.20	23.08	<=33.01	Pass		
74			20.90	2.20	23.10	<=33.01	Pass		



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		36	0	21.09	2.20	23.29	<=33.01	Pass
			18	21.05	2.20	23.25	<=33.01	Pass
			39	21.02	2.20	23.22	<=33.01	Pass
		75	0	21.01	2.20	23.21	<=33.01	Pass
	2593	1	0	21.14	2.20	23.34	<=33.01	Pass
			38	20.98	2.20	23.18	<=33.01	Pass
			74	21.06	2.20	23.26	<=33.01	Pass
		36	0	21.13	2.20	23.33	<=33.01	Pass
			18	21.13	2.20	23.33	<=33.01	Pass
			39	21.14	2.20	23.34	<=33.01	Pass
		75	0	21.13	2.20	23.33	<=33.01	Pass
	2682.5	1	0	21.04	2.20	23.24	<=33.01	Pass
			38	20.89	2.20	23.09	<=33.01	Pass
			74	20.88	2.20	23.08	<=33.01	Pass
		36	0	21.07	2.20	23.27	<=33.01	Pass
			18	21.01	2.20	23.21	<=33.01	Pass
			39	21.06	2.20	23.26	<=33.01	Pass
		75	0	21.04	2.20	23.24	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B41_20MHz_EIRP

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	25.69	2.20	27.89	<=33.01	Pass
			50	25.65	2.20	27.85	<=33.01	Pass
			99	25.70	2.20	27.90	<=33.01	Pass
		50	0	24.99	2.20	27.19	<=33.01	Pass
			25	24.87	2.20	27.07	<=33.01	Pass
			50	24.91	2.20	27.11	<=33.01	Pass
		100	0	24.88	2.20	27.08	<=33.01	Pass
	2593	1	0	25.95	2.20	28.15	<=33.01	Pass
			50	25.68	2.20	27.88	<=33.01	Pass
			99	25.76	2.20	27.96	<=33.01	Pass
		50	0	25.02	2.20	27.22	<=33.01	Pass
			25	25.02	2.20	27.22	<=33.01	Pass
			50	24.96	2.20	27.16	<=33.01	Pass
		100	0	25.03	2.20	27.23	<=33.01	Pass
	2680	1	0	25.78	2.20	27.98	<=33.01	Pass
			50	25.65	2.20	27.85	<=33.01	Pass
			99	25.71	2.20	27.91	<=33.01	Pass
		50	0	25.03	2.20	27.23	<=33.01	Pass
			25	24.97	2.20	27.17	<=33.01	Pass
			50	24.98	2.20	27.18	<=33.01	Pass
		100	0	24.98	2.20	27.18	<=33.01	Pass
16QAM	2506	1	0	25.23	2.20	27.43	<=33.01	Pass
			50	25.06	2.20	27.26	<=33.01	Pass
			99	25.15	2.20	27.35	<=33.01	Pass
		50	0	24.02	2.20	26.22	<=33.01	Pass
			25	23.93	2.20	26.13	<=33.01	Pass

		100	50	23.97	2.20	26.17	<=33.01	Pass
			0	23.97	2.20	26.17	<=33.01	Pass
	2593	1	0	25.36	2.20	27.56	<=33.01	Pass
			50	25.13	2.20	27.33	<=33.01	Pass
			99	25.25	2.20	27.45	<=33.01	Pass
		50	0	24.10	2.20	26.30	<=33.01	Pass
			25	24.07	2.20	26.27	<=33.01	Pass
			50	24.05	2.20	26.25	<=33.01	Pass
		100	0	24.11	2.20	26.31	<=33.01	Pass
	2680	1	0	25.33	2.20	27.53	<=33.01	Pass
			50	25.16	2.20	27.36	<=33.01	Pass
			99	25.25	2.20	27.45	<=33.01	Pass
		50	0	24.05	2.20	26.25	<=33.01	Pass
			25	24.04	2.20	26.24	<=33.01	Pass
			50	24.01	2.20	26.21	<=33.01	Pass
		100	0	24.06	2.20	26.26	<=33.01	Pass
64QAM	2506	1	0	25.18	2.20	27.38	<=33.01	Pass
			50	25.06	2.20	27.26	<=33.01	Pass
			99	25.15	2.20	27.35	<=33.01	Pass
		50	0	23.98	2.20	26.18	<=33.01	Pass
			25	23.88	2.20	26.08	<=33.01	Pass
			50	23.84	2.20	26.04	<=33.01	Pass
		100	0	24.00	2.20	26.20	<=33.01	Pass
	2593	1	0	25.40	2.20	27.60	<=33.01	Pass
			50	25.13	2.20	27.33	<=33.01	Pass
			99	25.24	2.20	27.44	<=33.01	Pass
		50	0	24.06	2.20	26.26	<=33.01	Pass
			25	24.00	2.20	26.20	<=33.01	Pass
			50	24.01	2.20	26.21	<=33.01	Pass
		100	0	24.13	2.20	26.33	<=33.01	Pass
	2680	1	0	25.38	2.20	27.58	<=33.01	Pass
			50	25.09	2.20	27.29	<=33.01	Pass
			99	25.20	2.20	27.40	<=33.01	Pass
		50	0	24.00	2.20	26.20	<=33.01	Pass
			25	24.00	2.20	26.20	<=33.01	Pass
			50	23.96	2.20	26.16	<=33.01	Pass
		100	0	24.11	2.20	26.31	<=33.01	Pass
256QAM	2506	1	0	21.04	2.20	23.24	<=33.01	Pass
			50	20.97	2.20	23.17	<=33.01	Pass
			99	21.03	2.20	23.23	<=33.01	Pass
		50	0	21.14	2.20	23.34	<=33.01	Pass
			25	21.06	2.20	23.26	<=33.01	Pass
			50	21.06	2.20	23.26	<=33.01	Pass
		100	0	20.98	2.20	23.18	<=33.01	Pass
	2593	1	0	21.21	2.20	23.41	<=33.01	Pass
			50	20.96	2.20	23.16	<=33.01	Pass
			99	21.08	2.20	23.28	<=33.01	Pass
		50	0	21.23	2.20	23.43	<=33.01	Pass
			25	21.19	2.20	23.39	<=33.01	Pass
			50	21.16	2.20	23.36	<=33.01	Pass
		100	0	21.14	2.20	23.34	<=33.01	Pass
	2680	1	0	21.05	2.20	23.25	<=33.01	Pass
			50	20.87	2.20	23.07	<=33.01	Pass



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			99	20.97	2.20	23.17	<=33.01	Pass
		50	0	21.15	2.20	23.35	<=33.01	Pass
			25	21.12	2.20	23.32	<=33.01	Pass
			50	21.10	2.20	23.30	<=33.01	Pass
		100	0	21.08	2.20	23.28	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B41_10MHz

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	2593	50	0	20	3.27	2.500	0.0010	-2.5 to 2.5	Pass
					3.85	-1.200	-0.0005	-2.5 to 2.5	Pass
					4.43	2.900	0.0011	-2.5 to 2.5	Pass
				-30	3.85	-0.800	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	0.200	0.0001	-2.5 to 2.5	Pass
				-10	3.85	-4.200	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-3.500	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-0.500	-0.0002	-2.5 to 2.5	Pass
				30	3.85	3.400	0.0013	-2.5 to 2.5	Pass
				40	3.85	3.900	0.0015	-2.5 to 2.5	Pass
				50	3.85	-2.100	-0.0008	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band41_OBW

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2593	25	0	4.500	/	Pass
	16QAM	2593	25	0	4.510	/	Pass
	64QAM	2593	25	0	4.504	/	Pass
	256QAM	2593	25	0	4.492	/	Pass
10	QPSK	2593	50	0	8.944	/	Pass
	16QAM	2593	50	0	8.926	/	Pass
	64QAM	2593	50	0	8.970	/	Pass
	256QAM	2593	50	0	8.970	/	Pass
15	QPSK	2593	75	0	13.482	/	Pass
	16QAM	2593	75	0	13.451	/	Pass



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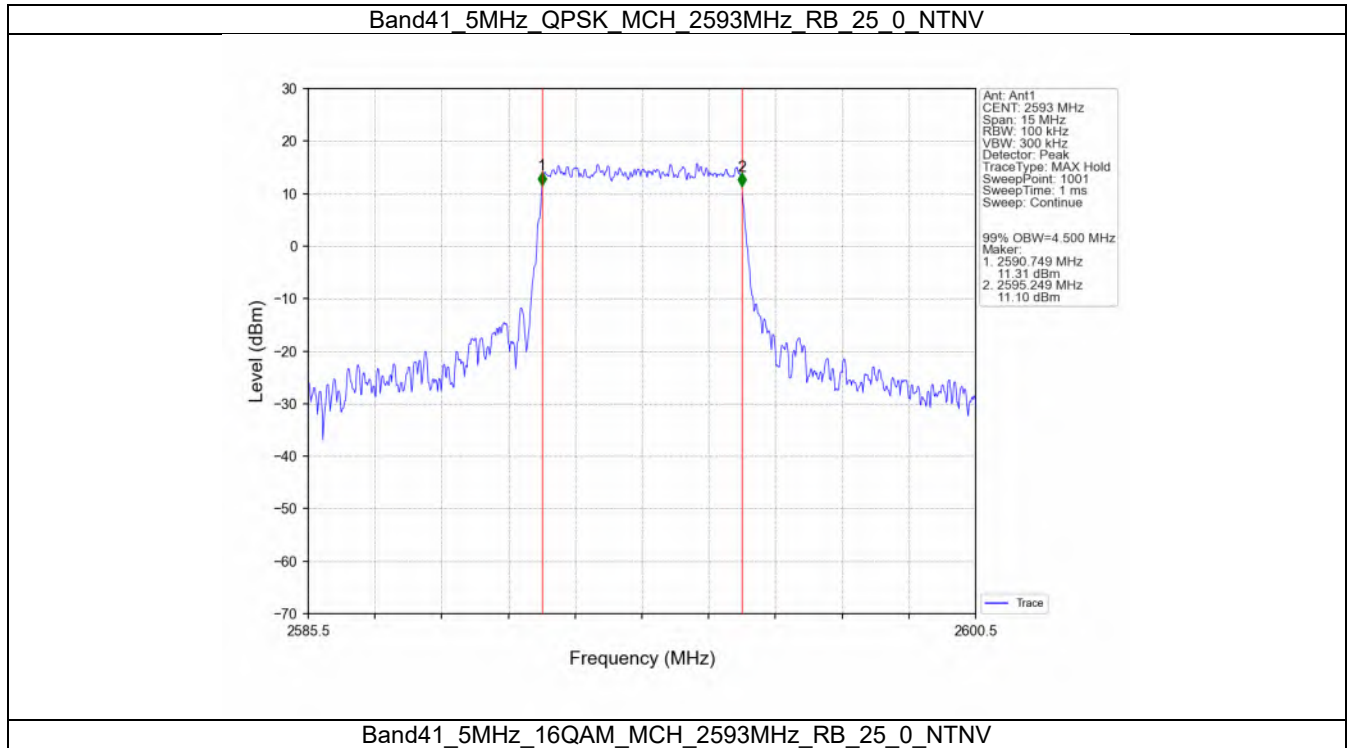
20	64QAM	2593	75	0	13.439	/	Pass
	256QAM	2593	75	0	13.448	/	Pass
	QPSK	2593	100	0	17.875	/	Pass
	16QAM	2593	100	0	17.911	/	Pass
	64QAM	2593	100	0	17.892	/	Pass
	256QAM	2593	100	0	17.874	/	Pass

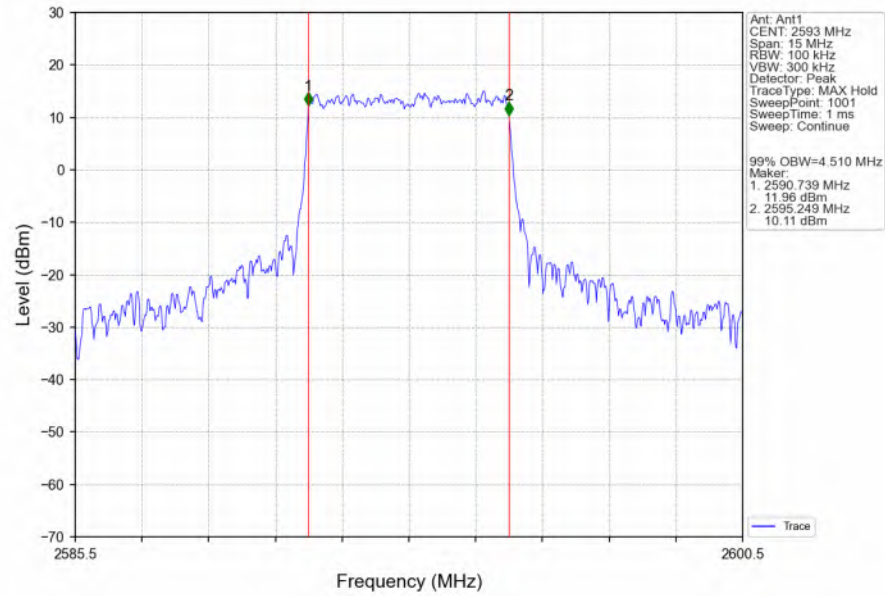
3.1.2 Band41_XDB

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2593	25	0	4.995	/	Pass
	16QAM	2593	25	0	5.086	/	Pass
	64QAM	2593	25	0	5.119	/	Pass
	256QAM	2593	25	0	5.462	/	Pass
10	QPSK	2593	50	0	9.586	/	Pass
	16QAM	2593	50	0	9.583	/	Pass
	64QAM	2593	50	0	9.708	/	Pass
	256QAM	2593	50	0	9.637	/	Pass
15	QPSK	2593	75	0	14.591	/	Pass
	16QAM	2593	75	0	14.773	/	Pass
	64QAM	2593	75	0	14.733	/	Pass
	256QAM	2593	75	0	14.459	/	Pass
20	QPSK	2593	100	0	19.257	/	Pass
	16QAM	2593	100	0	19.241	/	Pass
	64QAM	2593	100	0	19.256	/	Pass
	256QAM	2593	100	0	18.991	/	Pass

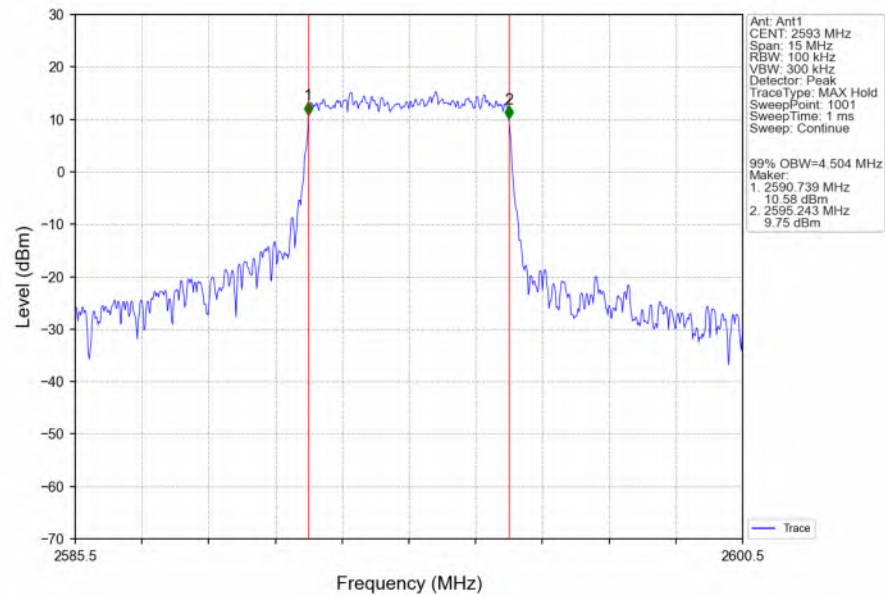
3.2 Test Graph

3.2.1 Band41_OBW

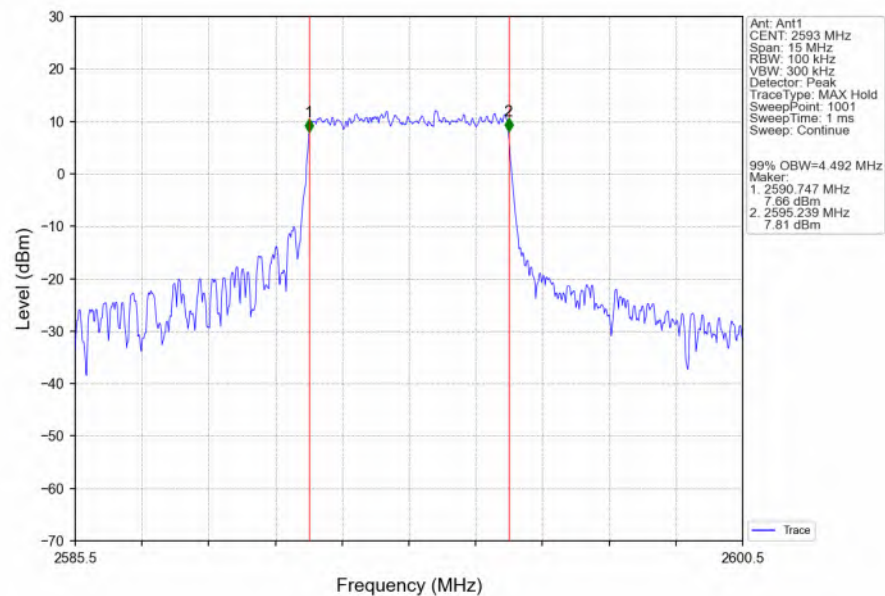




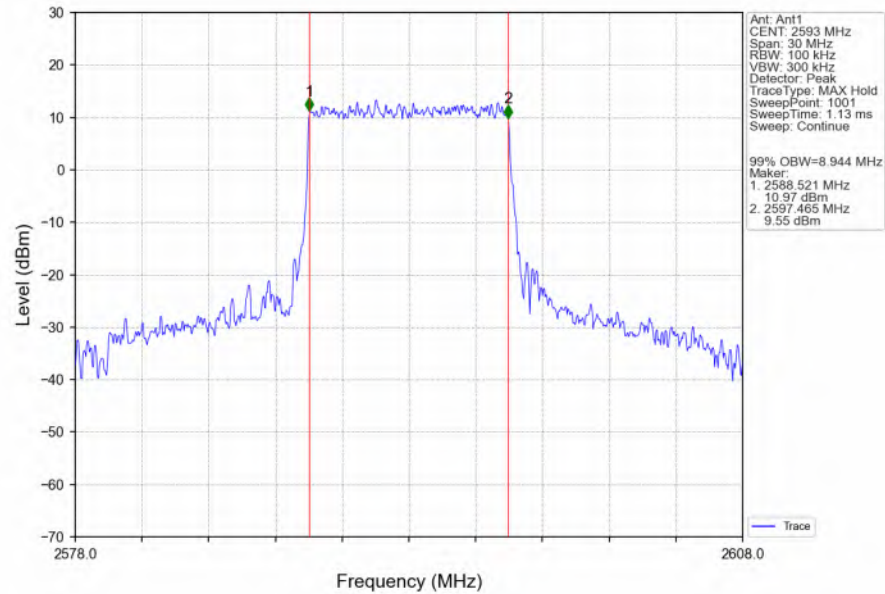
Band41_5MHz_64QAM_MCH_2593MHz_RB_25_0_NTNV



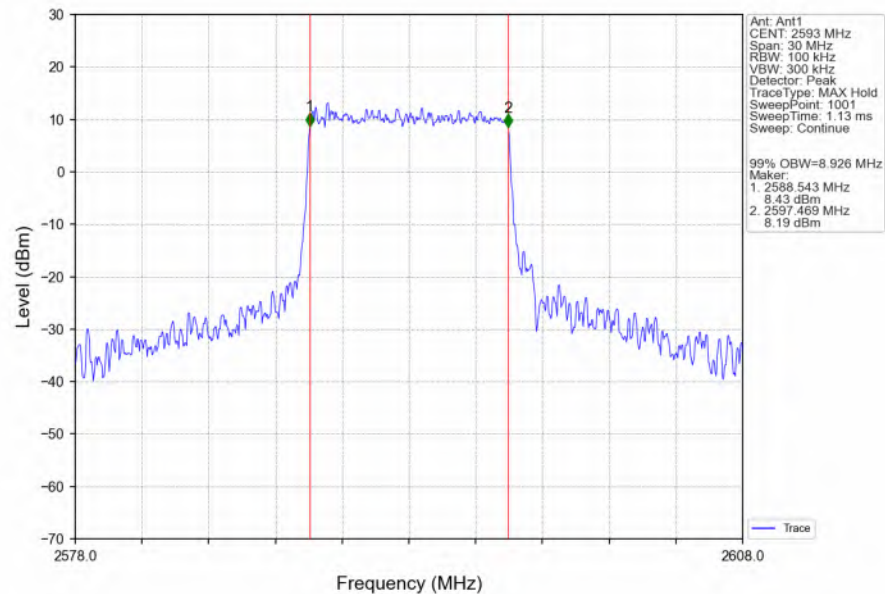
Band41_5MHz_256QAM_MCH_2593MHz_RB_25_0_NTNV



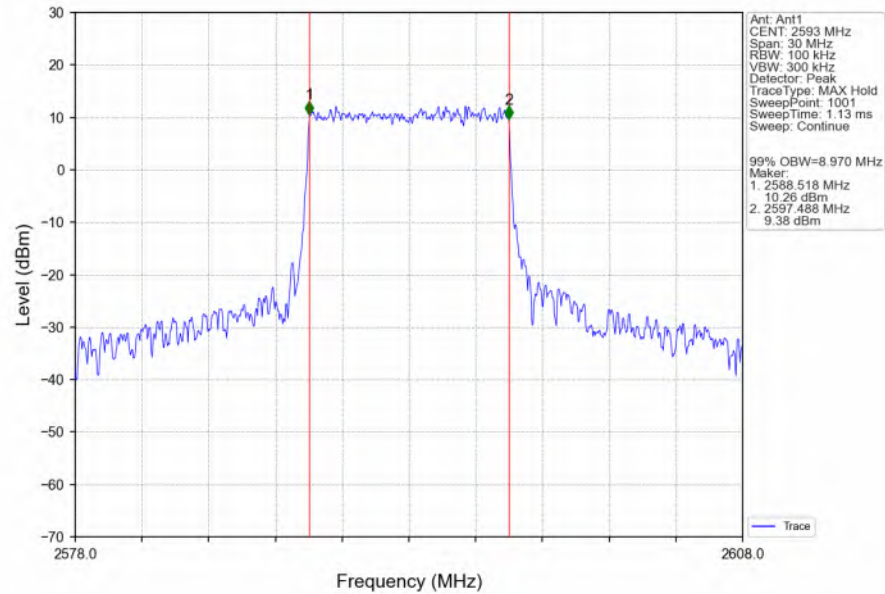
Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV



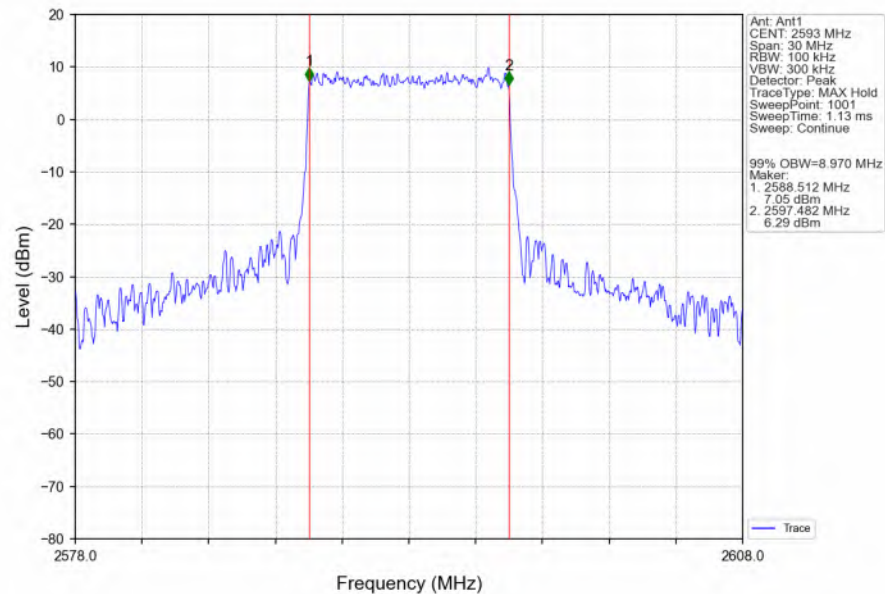
Band41_10MHz_16QAM_MCH_2593MHz_RB_50_0_NTNV



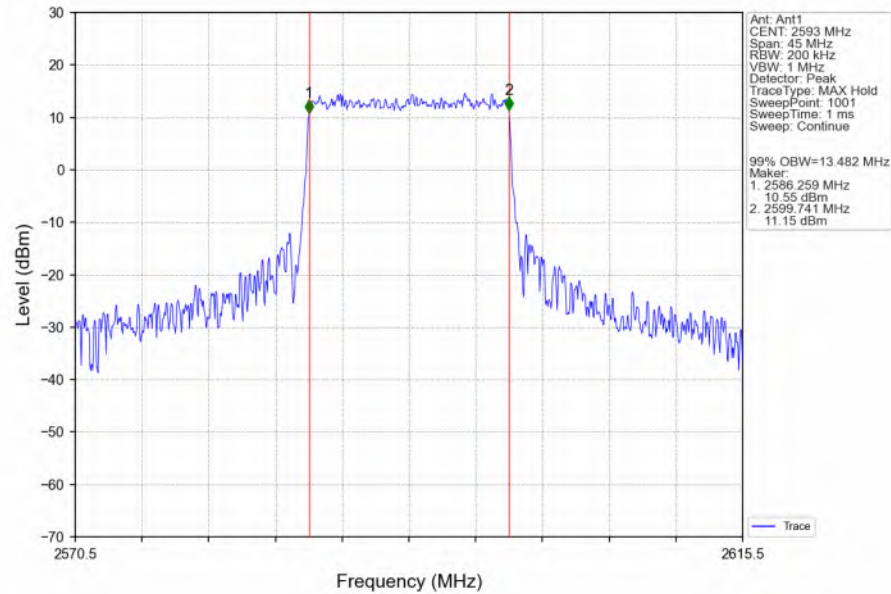
Band41_10MHz_64QAM_MCH_2593MHz_RB_50_0_NTNV



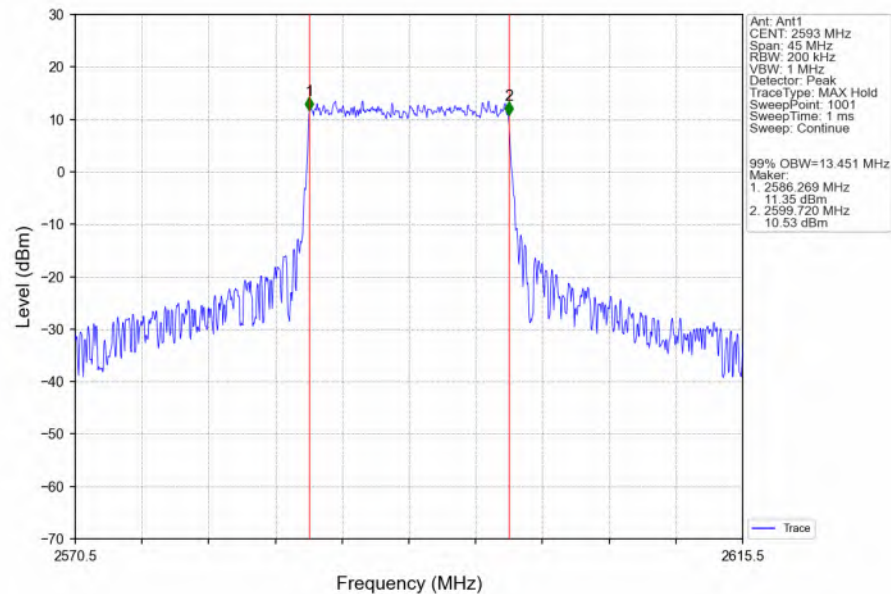
Band41_10MHz_256QAM_MCH_2593MHz_RB_50_0_NTNV



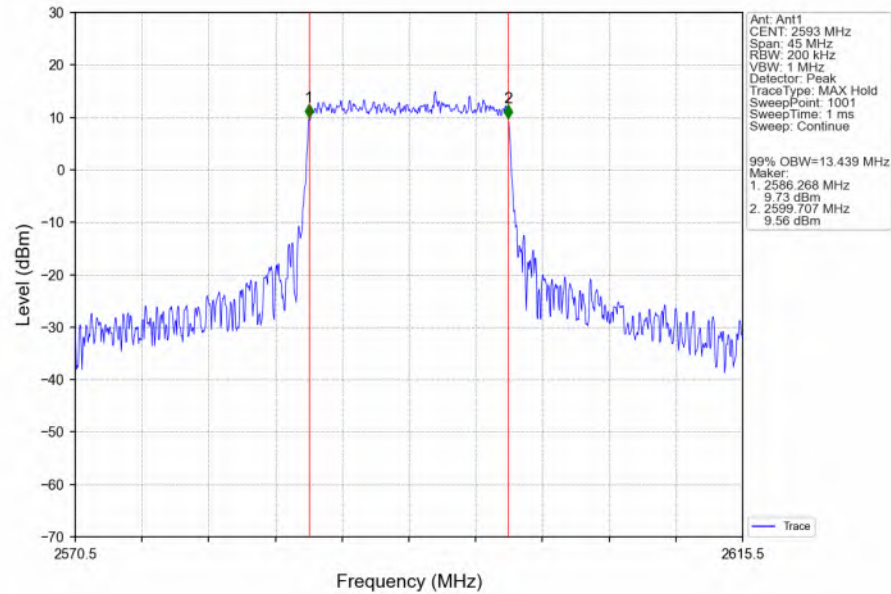
Band41_15MHz_QPSK_MCH_2593MHz_RB_75_0_NTNV



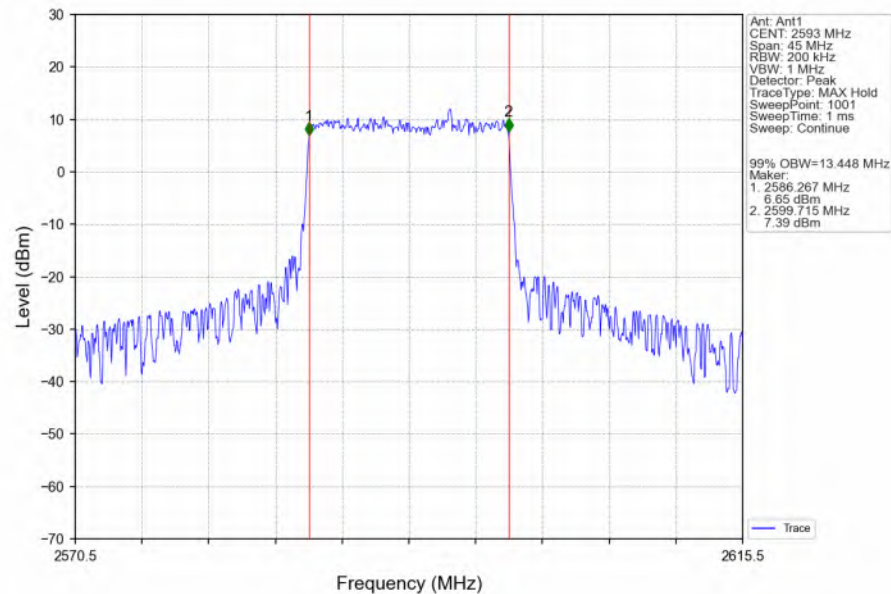
Band41_15MHz_16QAM_MCH_2593MHz_RB_75_0_NTNV



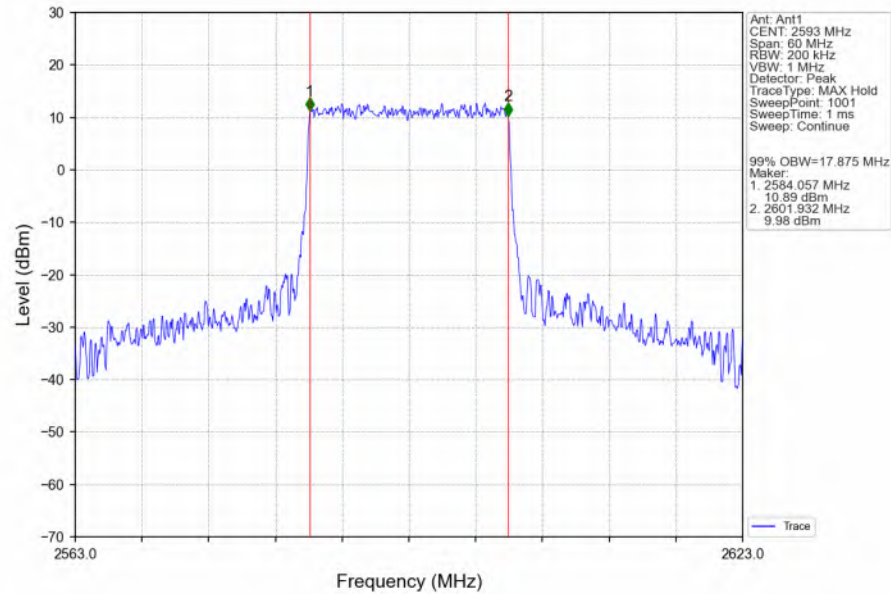
Band41_15MHz_64QAM_MCH_2593MHz_RB_75_0_NTNV



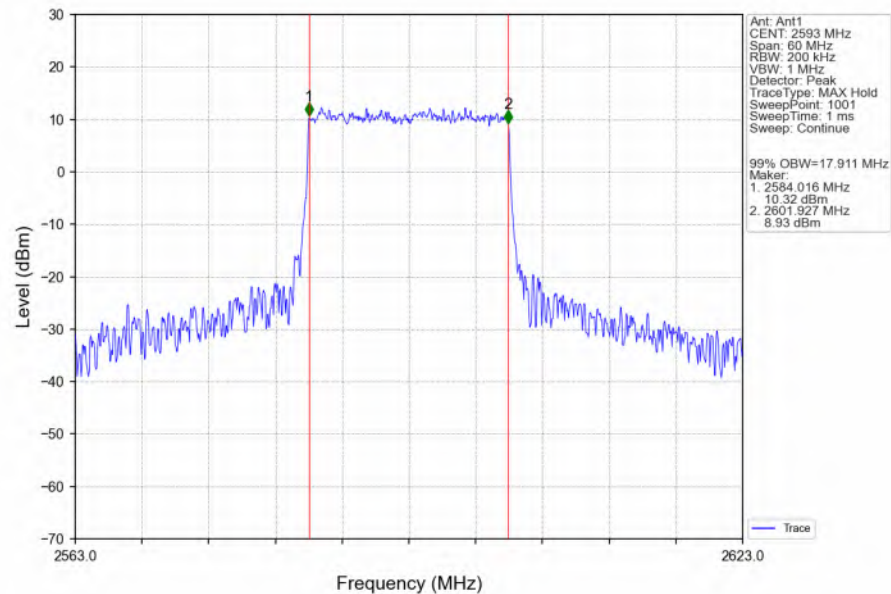
Band41_15MHz_256QAM_MCH_2593MHz_RB_75_0_NTNV



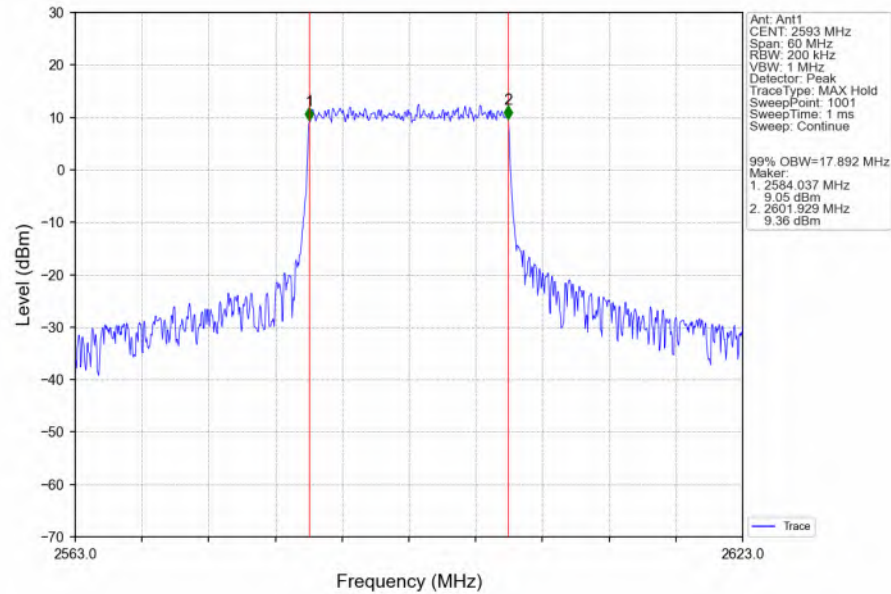
Band41_20MHz_QPSK_MCH_2593MHz_RB_100_0_NTNV



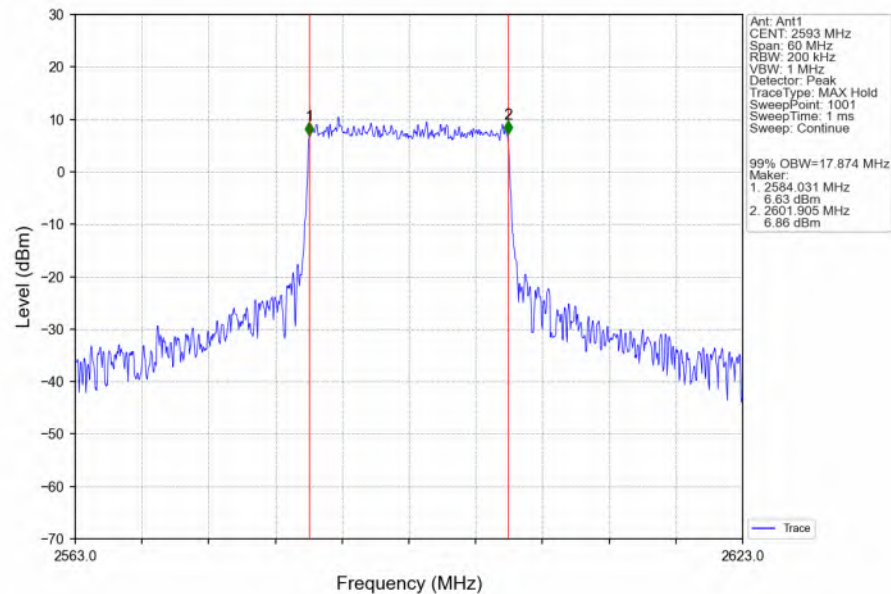
Band41_20MHz_16QAM_MCH_2593MHz_RB_100_0_NTNV



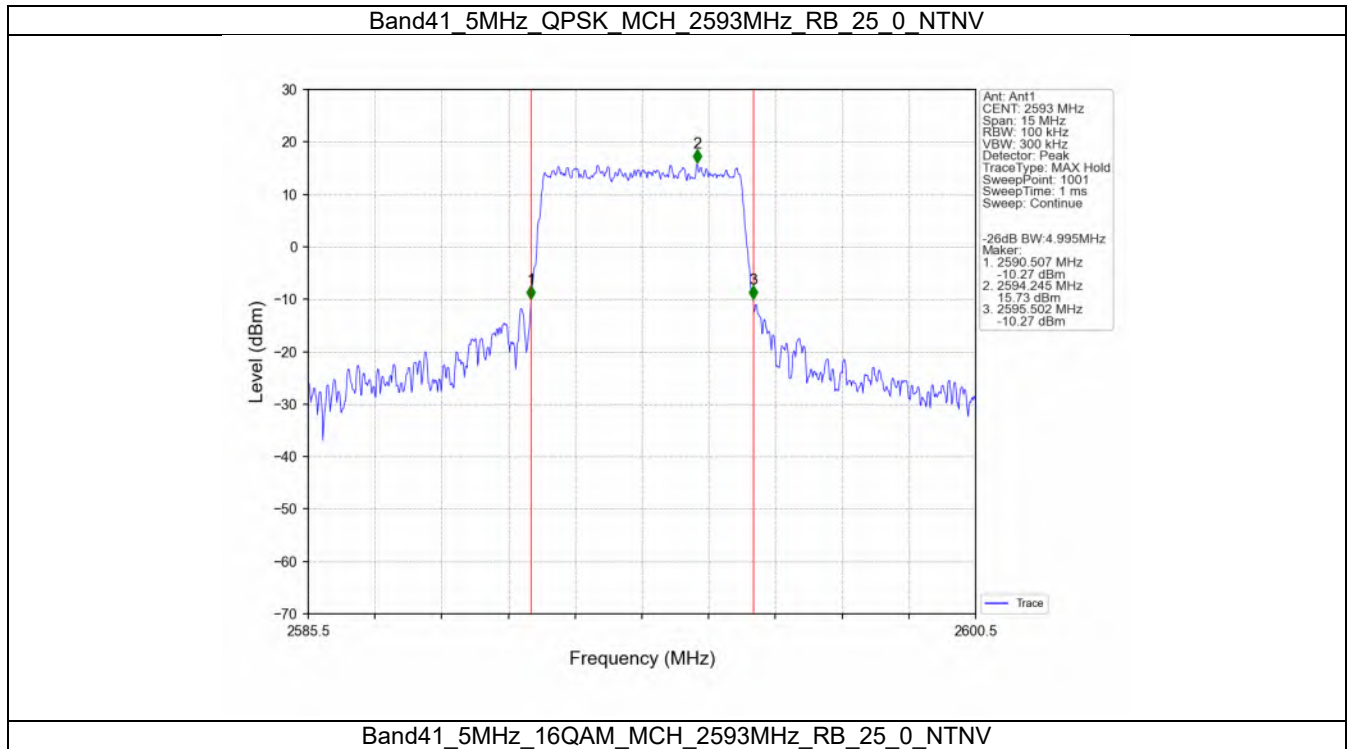
Band41_20MHz_64QAM_MCH_2593MHz_RB_100_0_NTNV

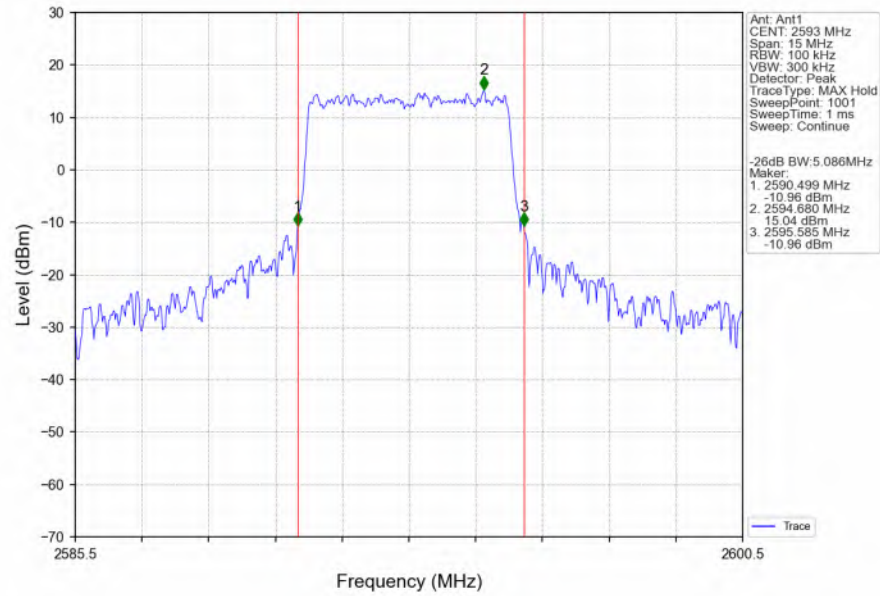


Band41_20MHz_256QAM_MCH_2593MHz_RB_100_0_NTNV

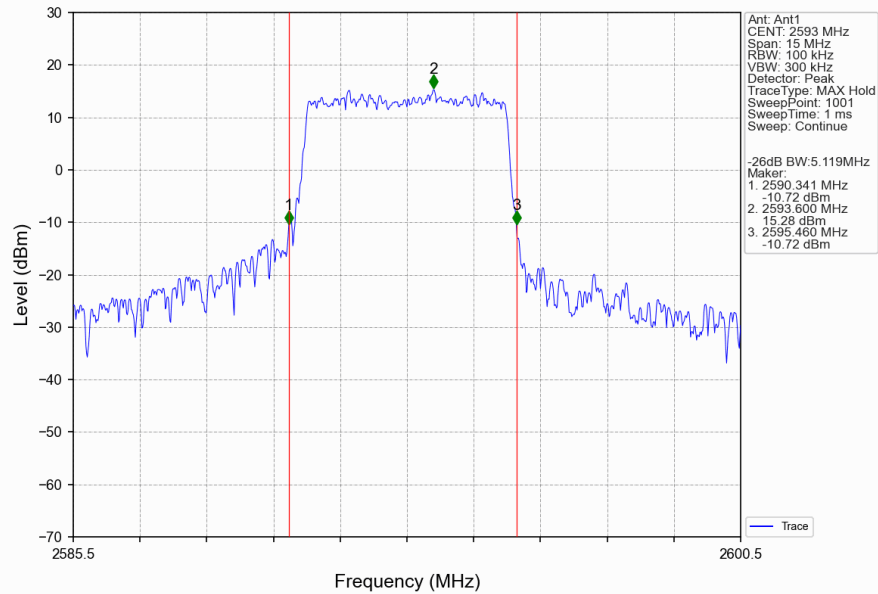


3.2.2 Band41_XDB

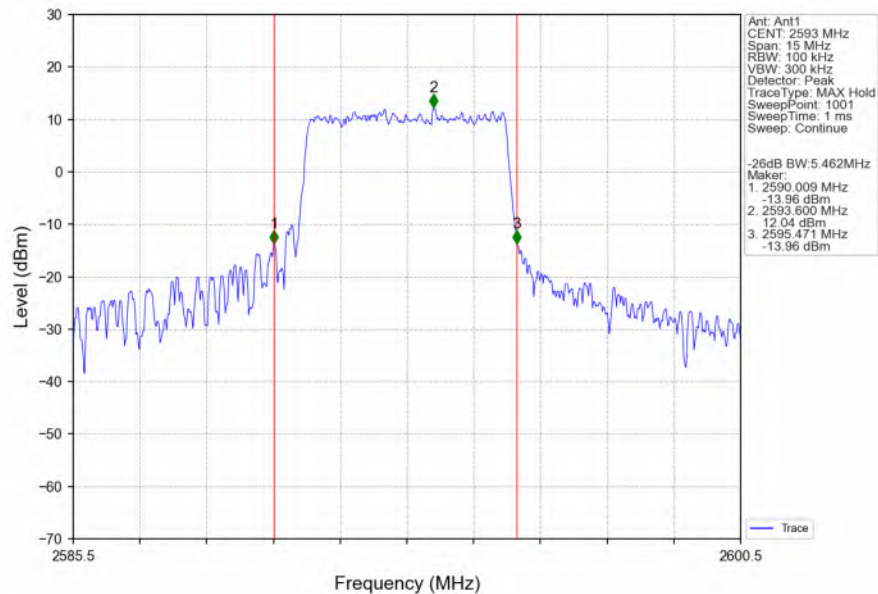




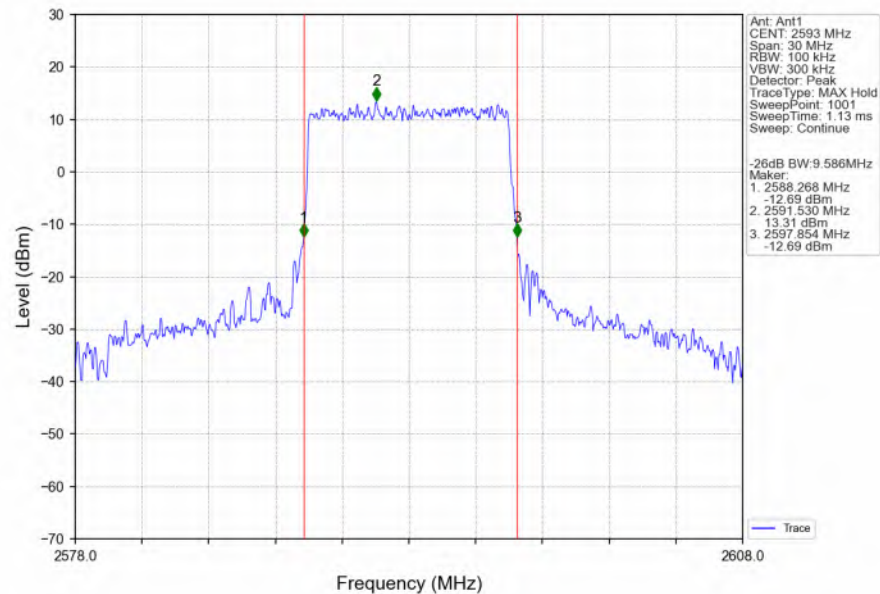
Band41_5MHz_64QAM_MCH_2593MHz_RB_25_0_NTNV



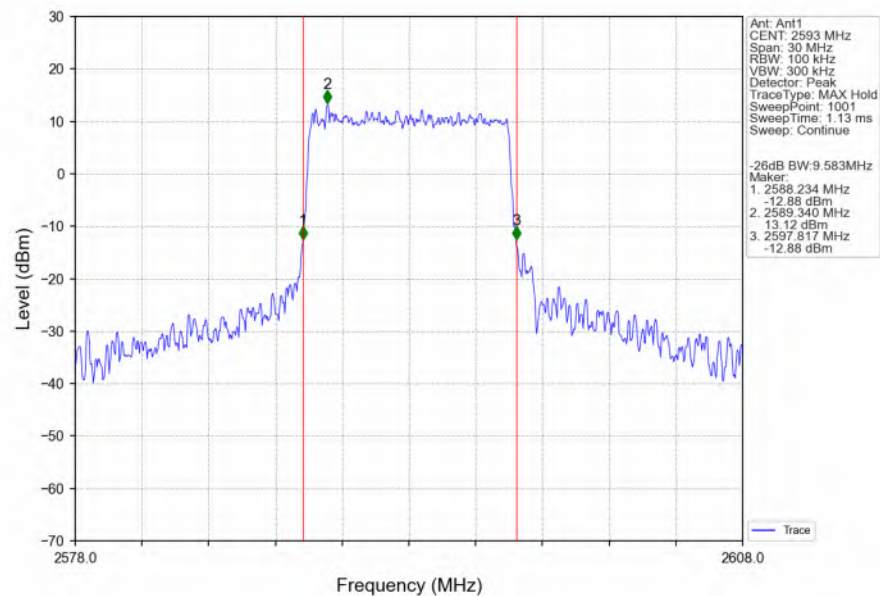
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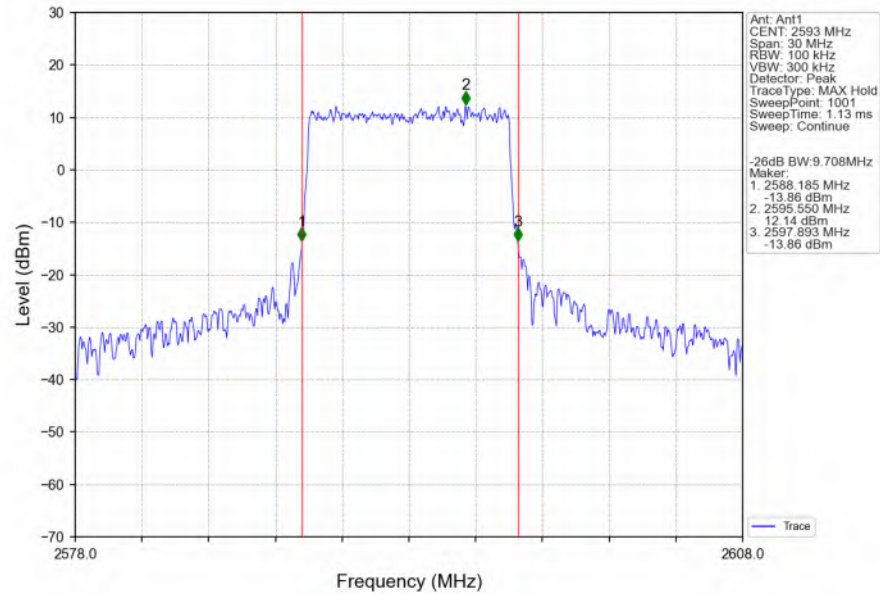
Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV



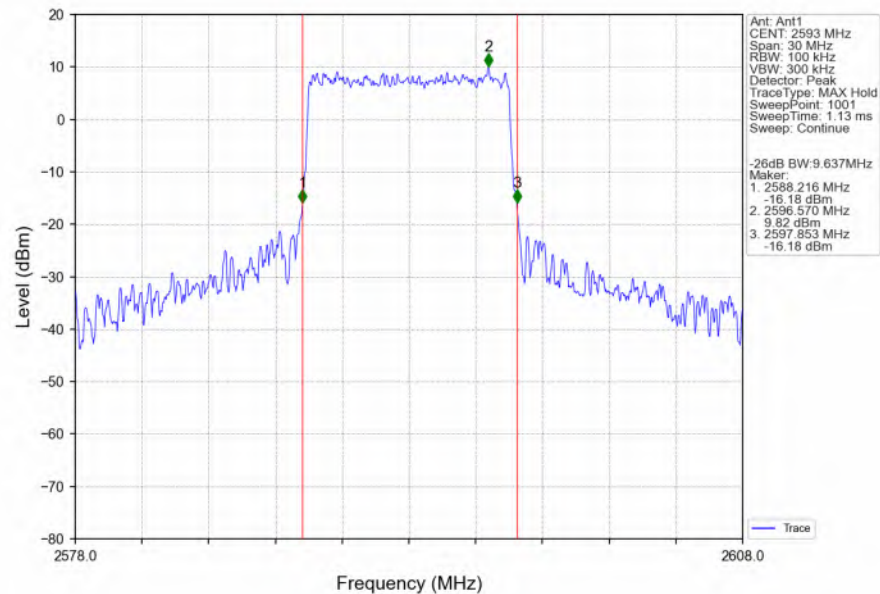
Band41_10MHz_16QAM_MCH_2593MHz_RB_50_0_NTNV



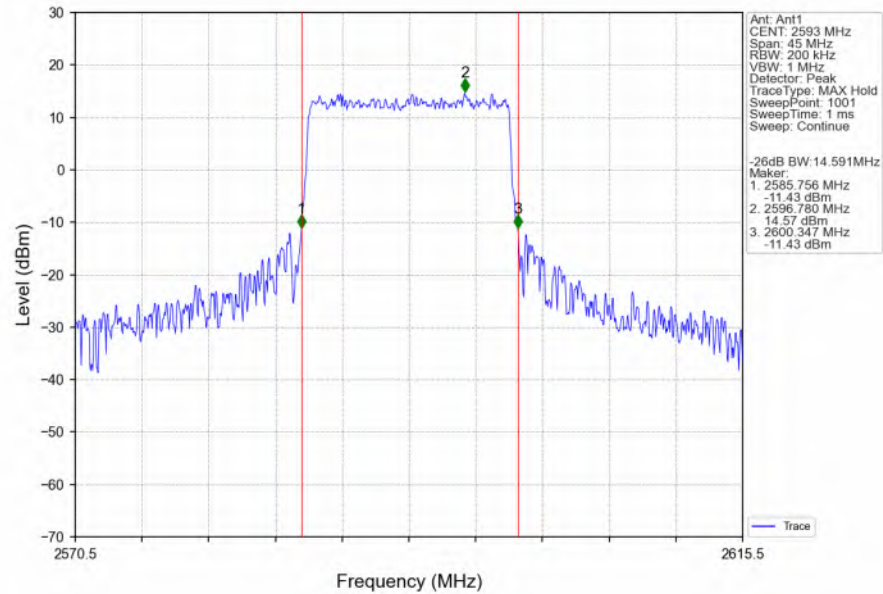
Band41_10MHz_64QAM_MCH_2593MHz_RB_50_0_NTNV



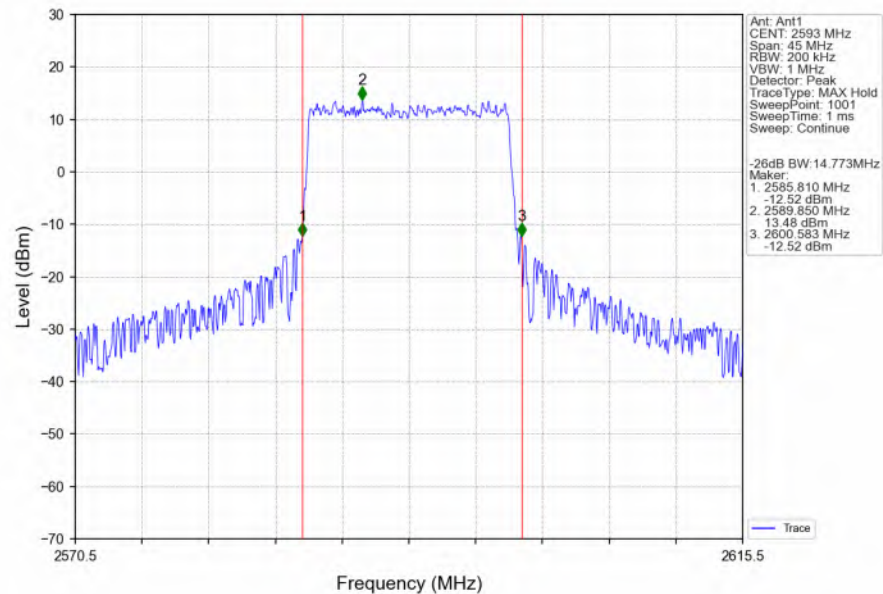
Band41_10MHz_256QAM_MCH_2593MHz_RB_50_0_NTNV



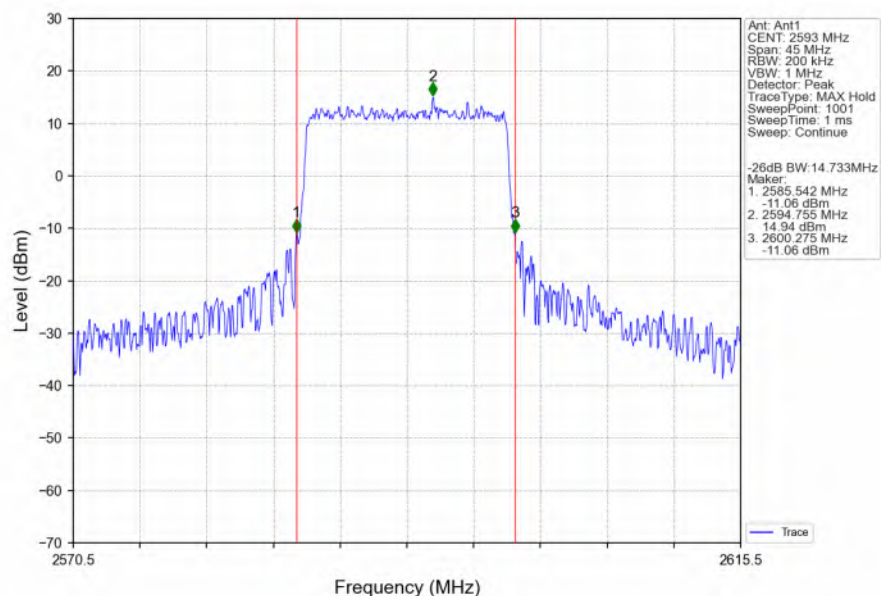
Band41_15MHz_QPSK_MCH_2593MHz_RB_75_0_NTNV



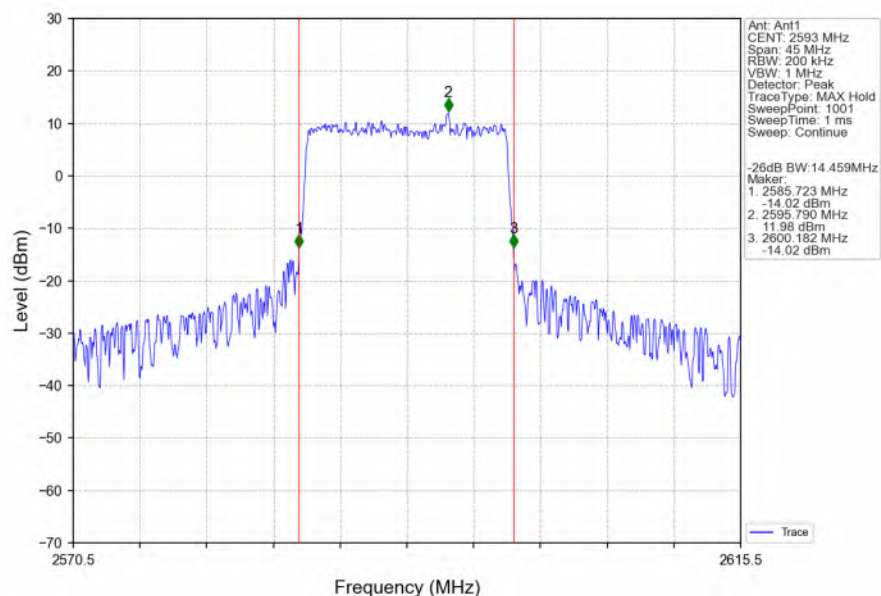
Band41_15MHz_16QAM_MCH_2593MHz_RB_75_0_NTNV



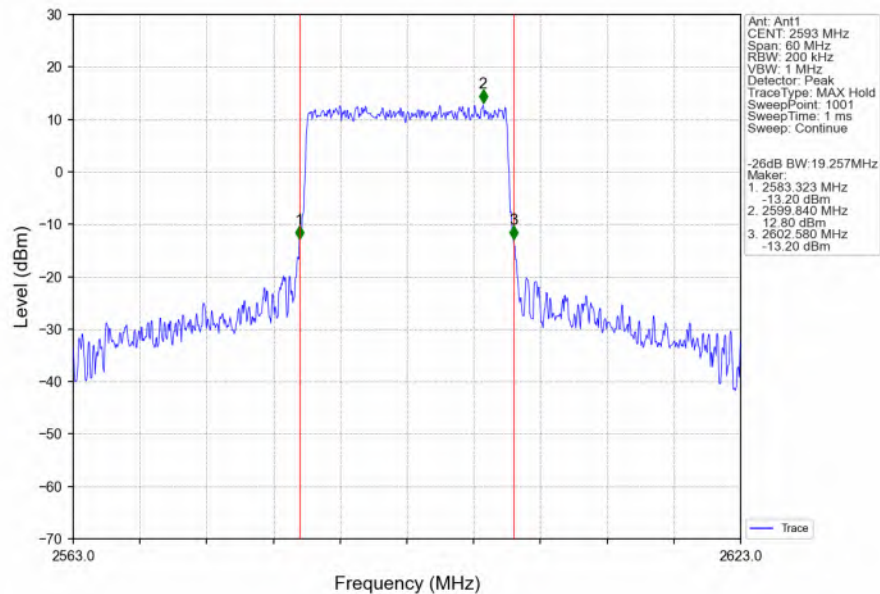
Band41_15MHz_64QAM_MCH_2593MHz_RB_75_0_NTNV



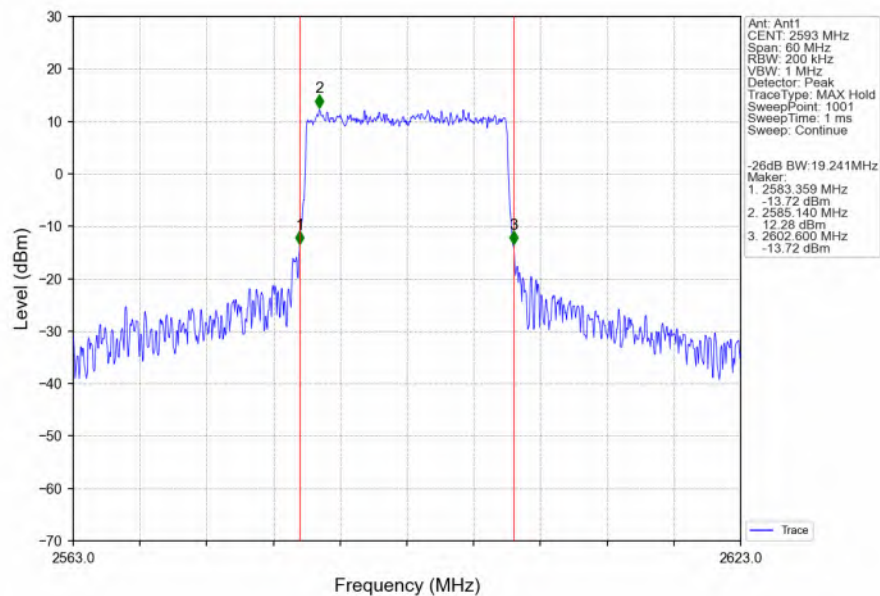
Band41_15MHz_256QAM_MCH_2593MHz_RB_75_0_NTNV



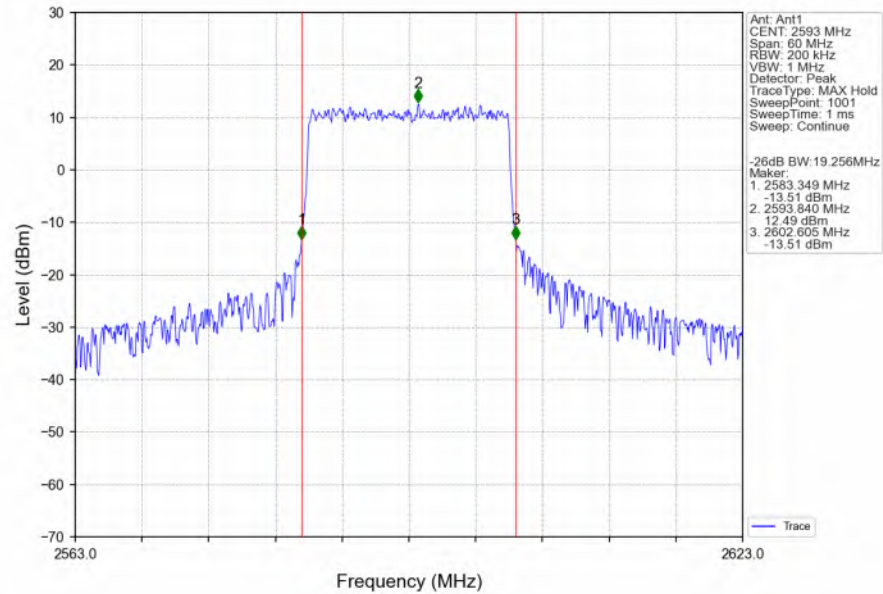
Band41_20MHz_QPSK_MCH_2593MHz_RB_100_0_NTNV



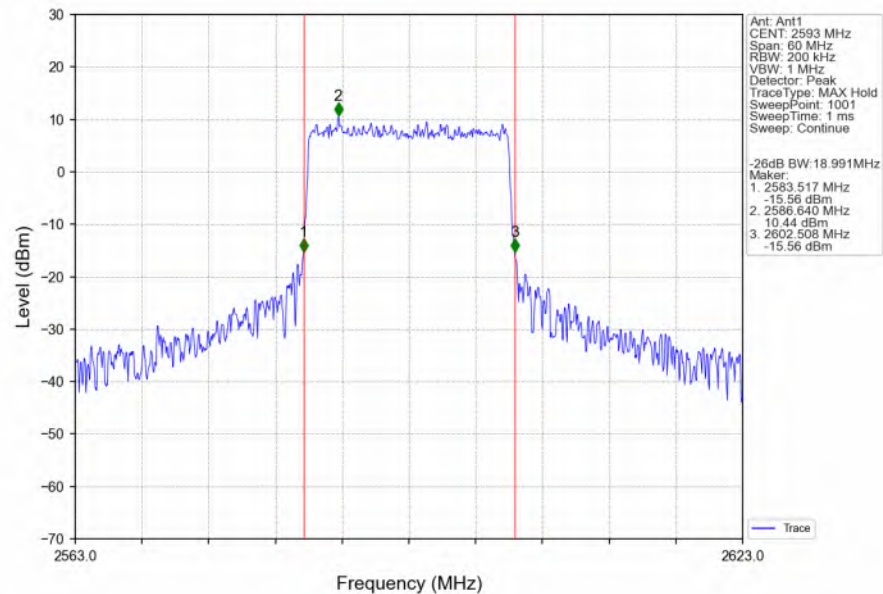
Band41_20MHz_16QAM_MCH_2593MHz_RB_100_0_NTNV



Band41_20MHz_64QAM_MCH_2593MHz_RB_100_0_NTNV



Band41_20MHz_256QAM_MCH_2593MHz_RB_100_0_NTNV





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4. Peak-Average Ratio

4.1 Test Result

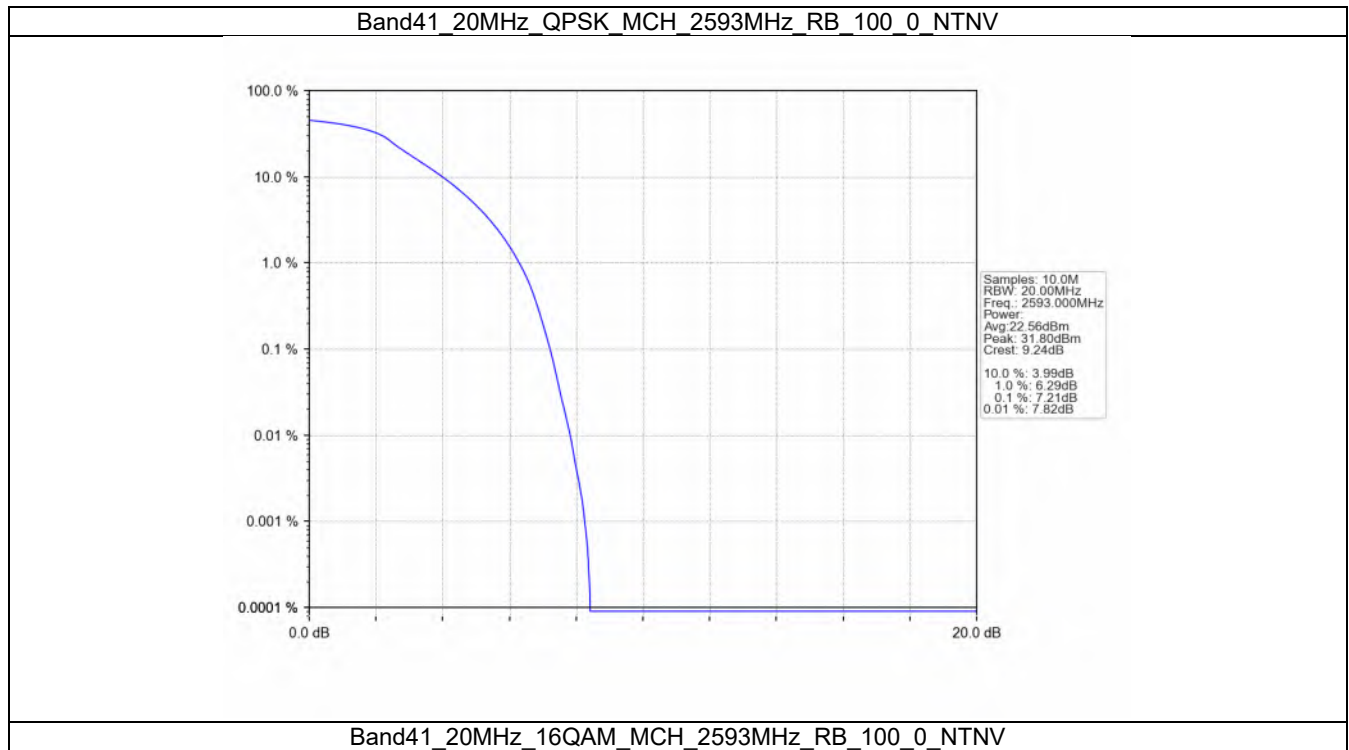
4.1.1 B41_20MHz

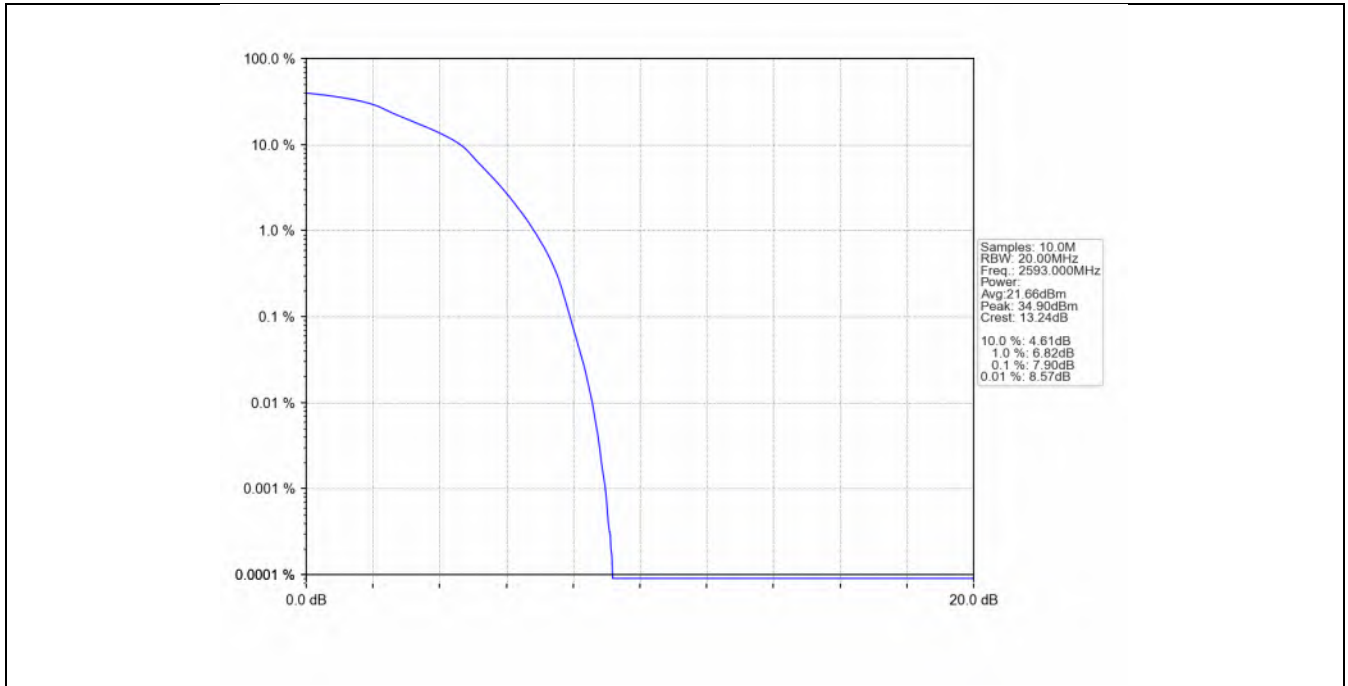
Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	100	0	7.21	<=13	Pass
16QAM	2593	100	0	7.90	<=13	Pass
64QAM	2593	100	0	7.94	<=13	Pass
256QAM	2593	100	0	8.74	<=13	Pass



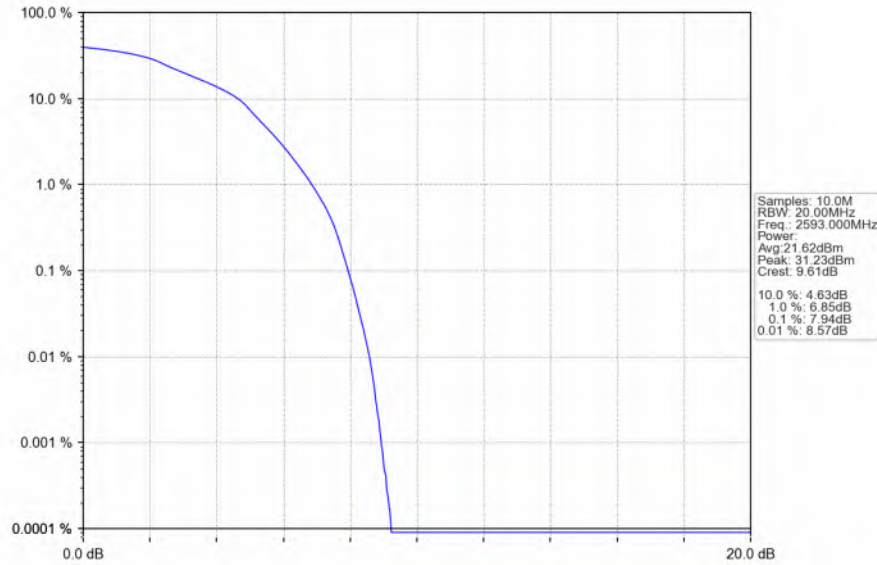
4.2 Test Graph

4.2.1 B41_20MHz

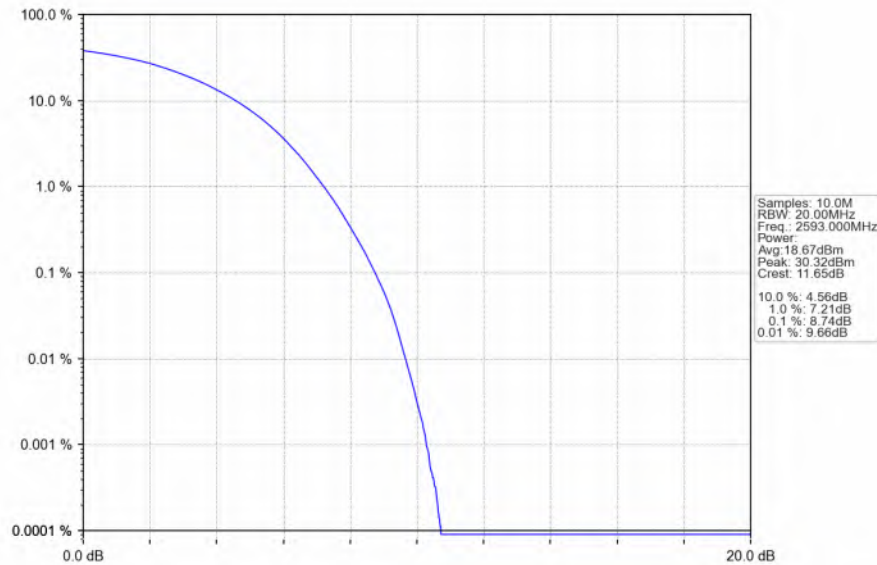




Band41_20MHz_64QAM_MCH_2593MHz_RB_100_0_NTNV



Band41_20MHz_256QAM_MCH_2593MHz_RB_100_0_NTNV





5. Spurious Emission

5.1 Test Result

5.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz / NTV						
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
	2593	1	0	Refer To Test Graph		Pass
	2687.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2685	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.1.3 B41_15MHz

Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2682.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

5.1.4 B41_20MHz

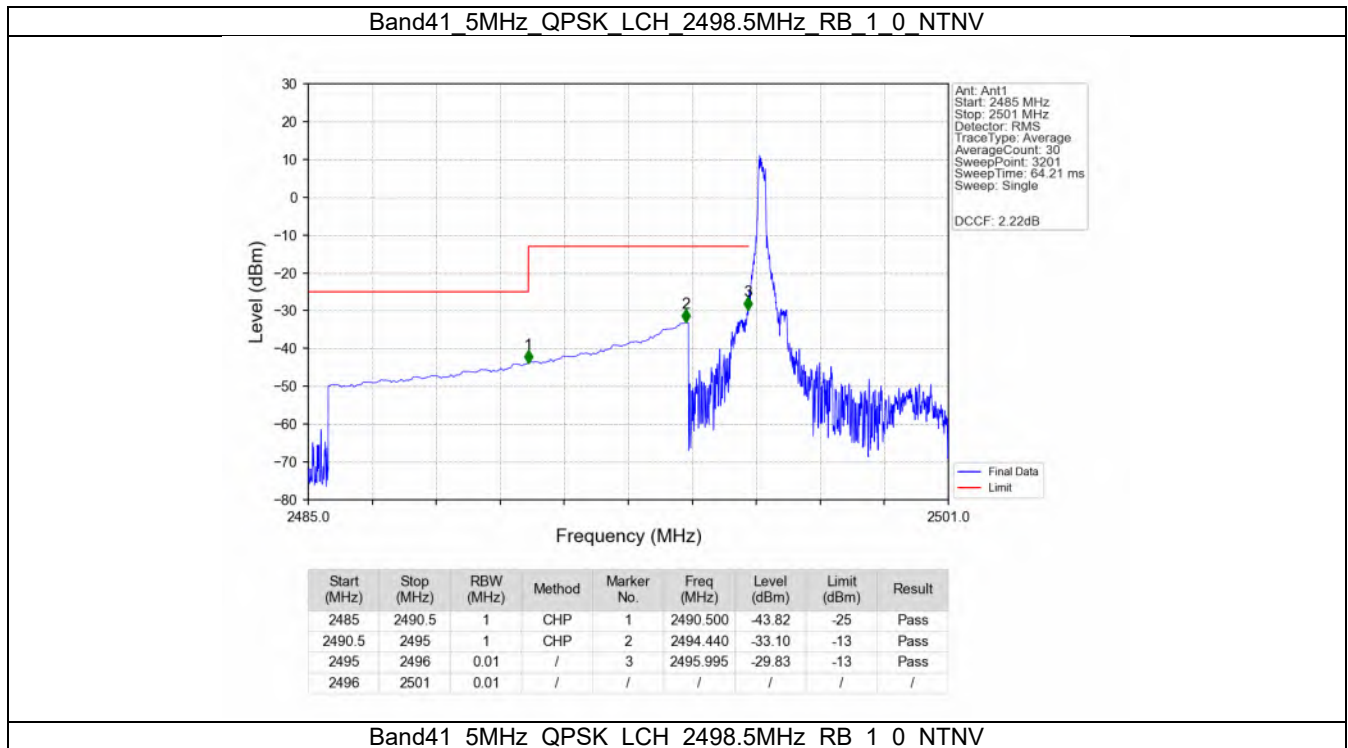
Band: 41 / Bandwidth: 20MHz / NTNV				
Modulation	Frequency	RB Allocation	Spurious Emission	Verdict

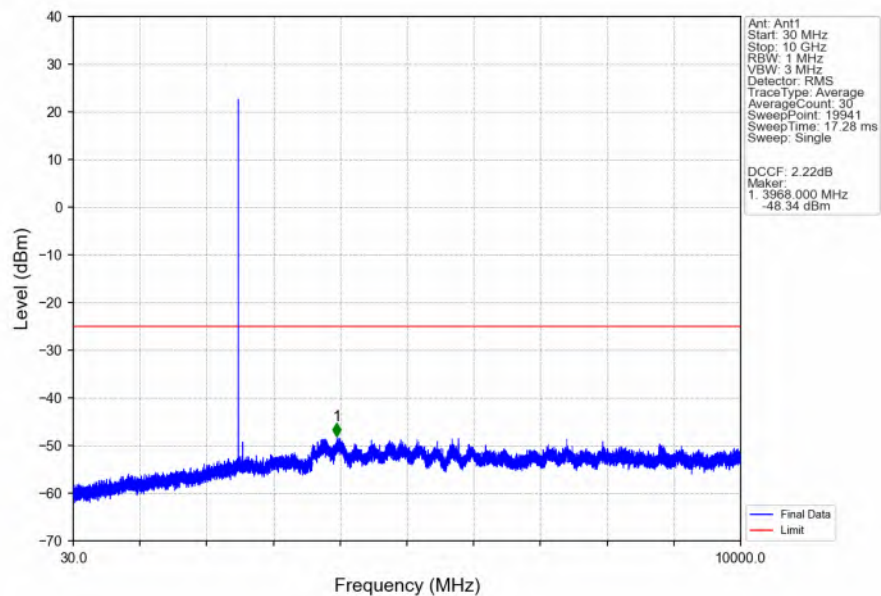


	(MHz)	Size	Offset	Result	Limit	
QPSK	2506	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2680	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

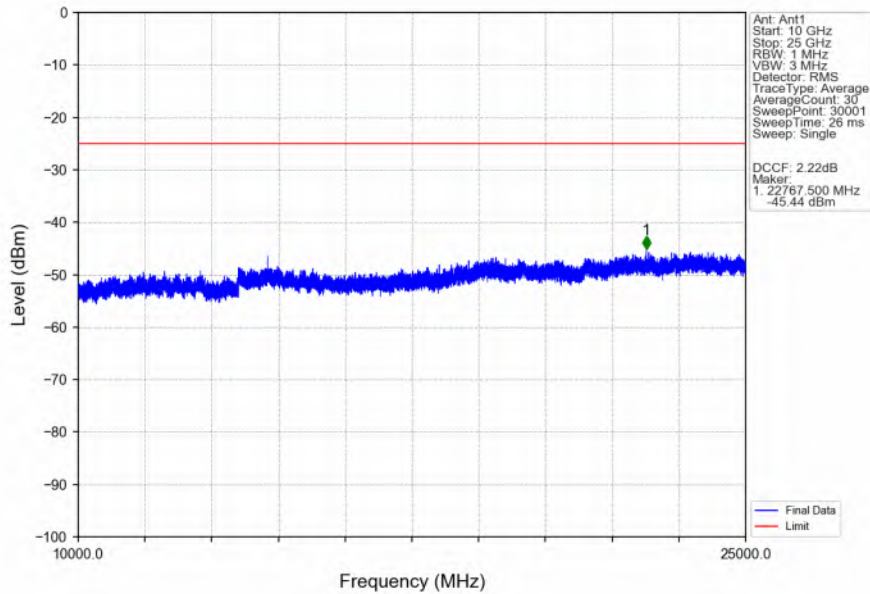
5.2 Test Graph

5.2.1 B41_5MHz

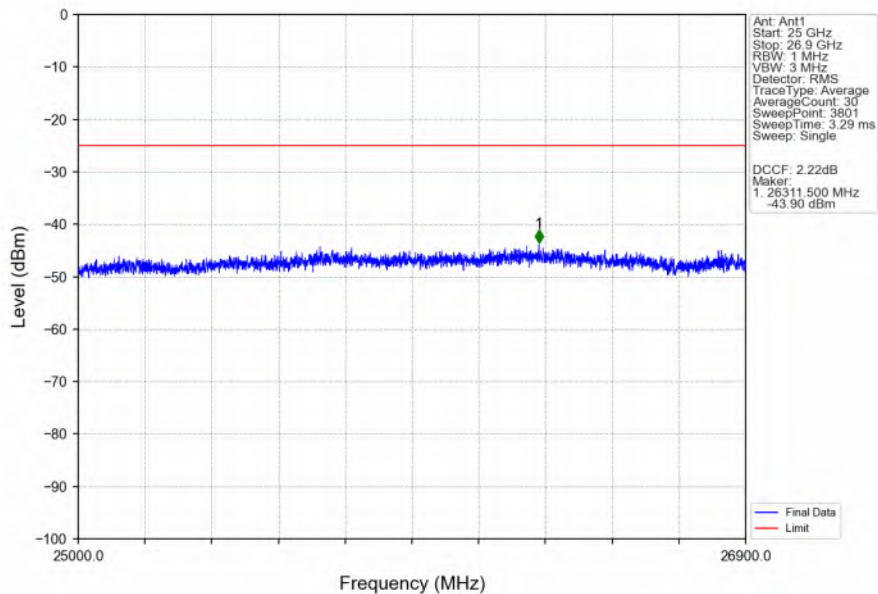




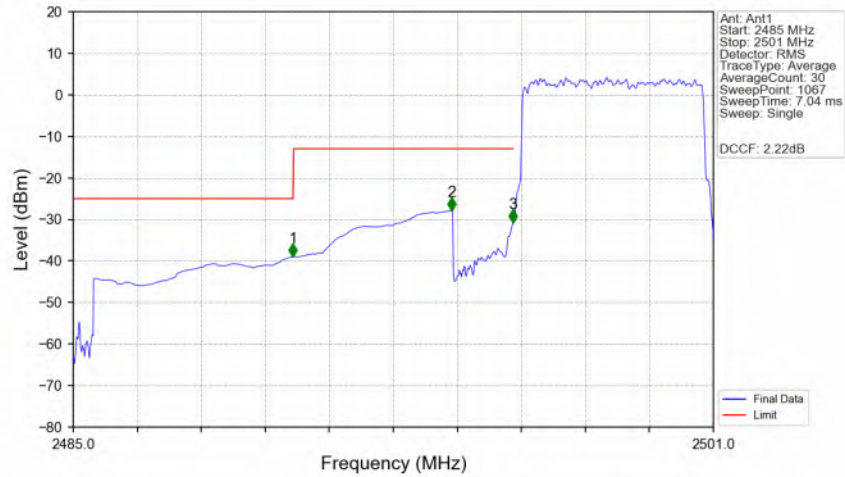
Band41_5MHz_QPSK_LCH_2498.5MHz_RB_1_0_NTNV



Band41_5MHz_QPSK_LCH_2498.5MHz_RB_1_0_NTNV

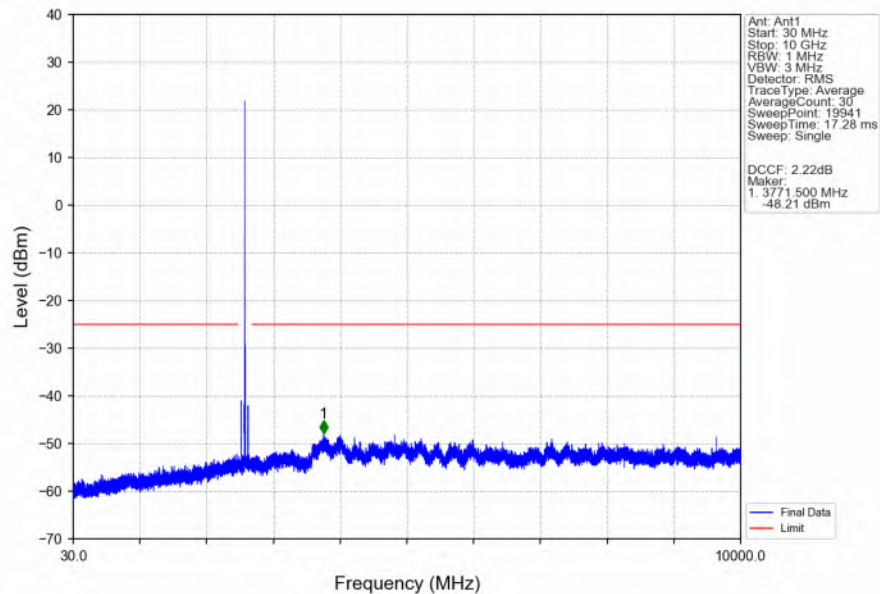


Band41_5MHz_QPSK_LCH_2498.5MHz_RB_25_0_NTNV

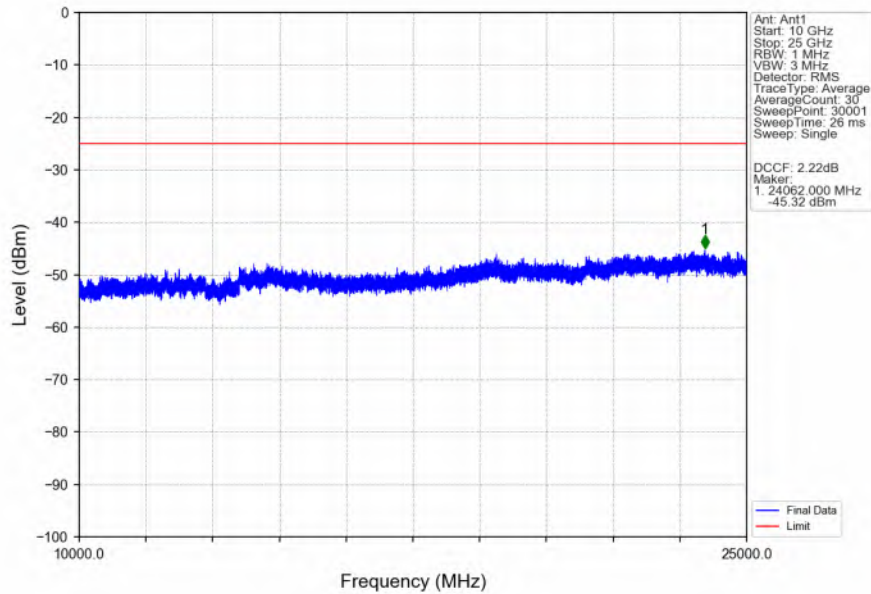


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.493	-39.04	-25	Pass
2490.5	2495	1	CHP	2	2494.456	-27.86	-13	Pass
2495	2496	0.05	CHP	3	2495.987	-30.82	-13	Pass
2496	2501	0.05	CHP	/	/	/	/	/

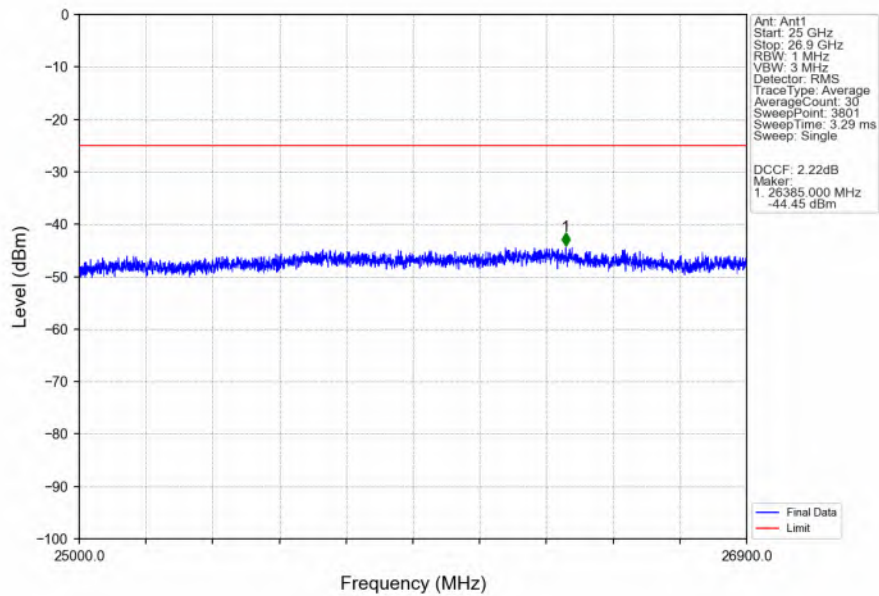
Band41_5MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



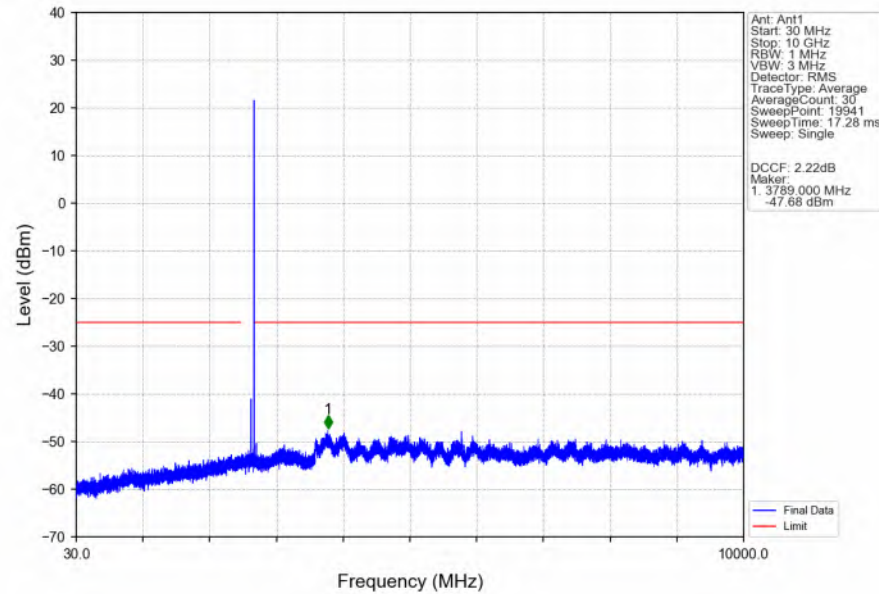
Band41_5MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



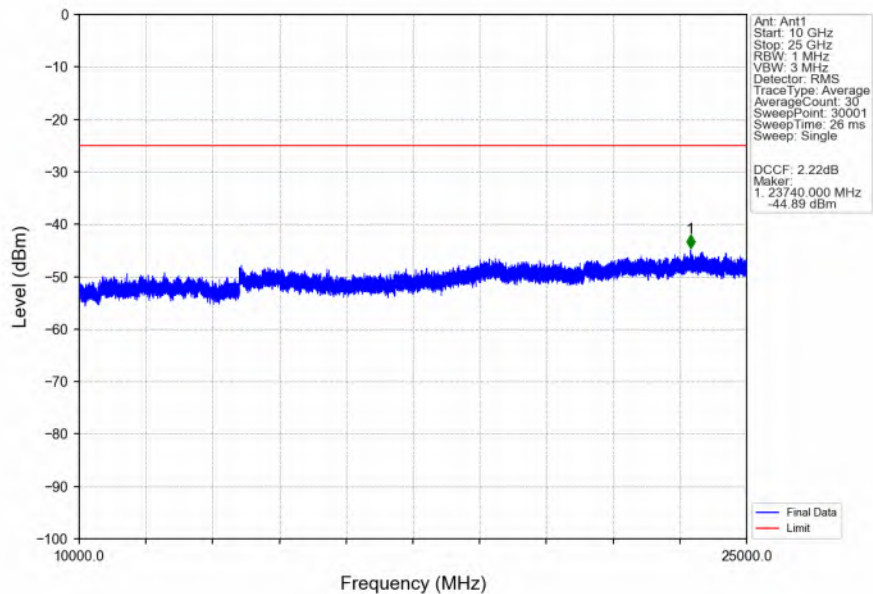
Band41_5MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



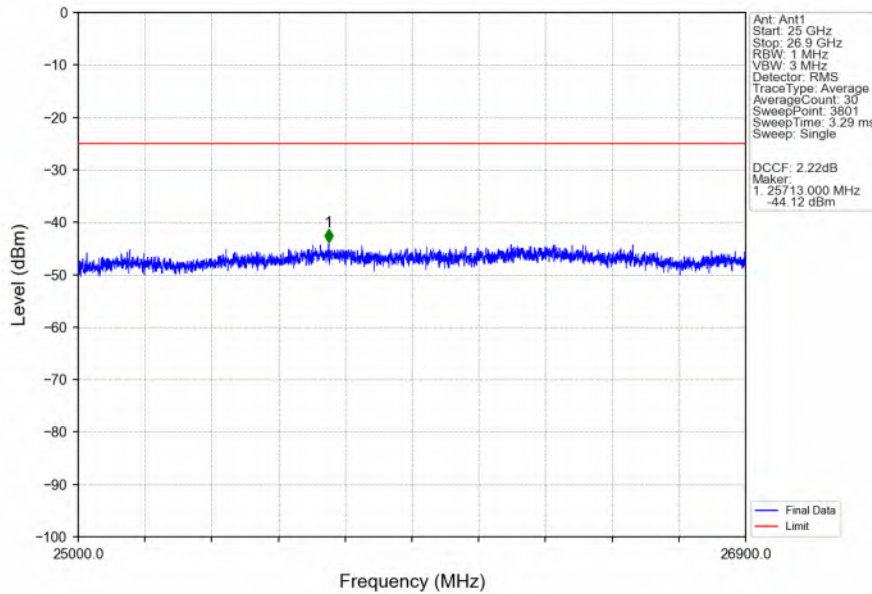
Band41_5MHz_QPSK_HCH_2687.5MHz_RB_1_0_NTNV



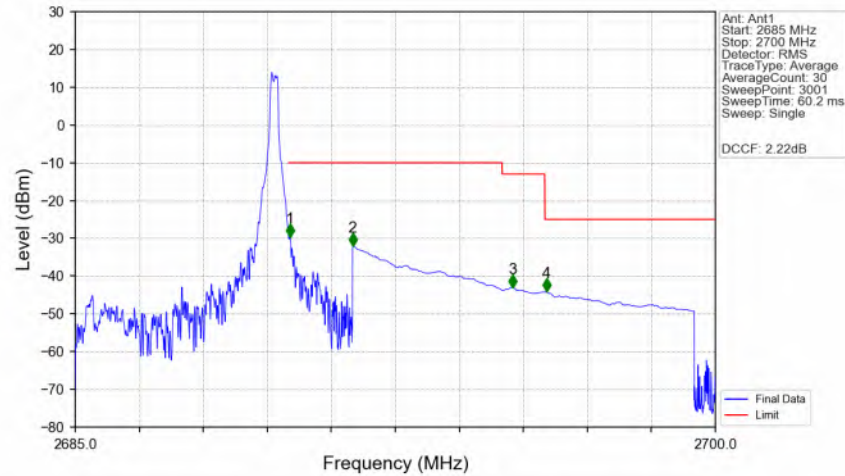
Band41_5MHz_QPSK_HCH_2687.5MHz_RB_1_0_NTNV



Band41_5MHz_QPSK_HCH_2687.5MHz_RB_1_0_NTNV

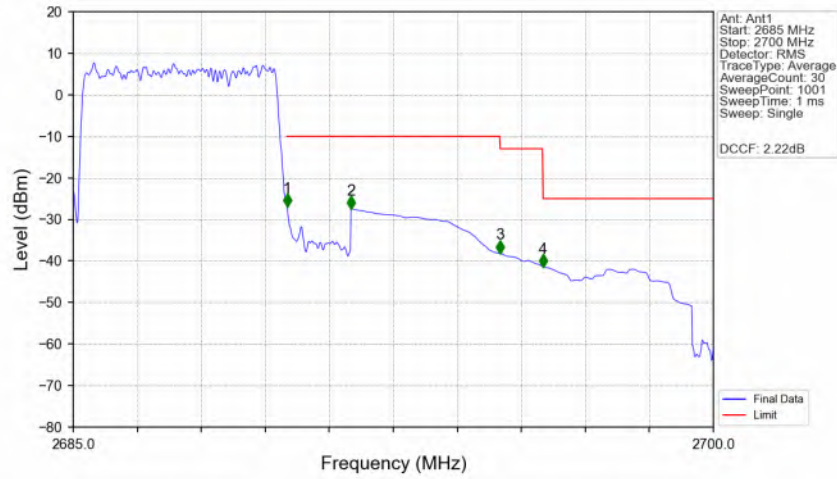


Band41_5MHz_QPSK_HCH_2687.5MHz_RB_1_24_NTNV



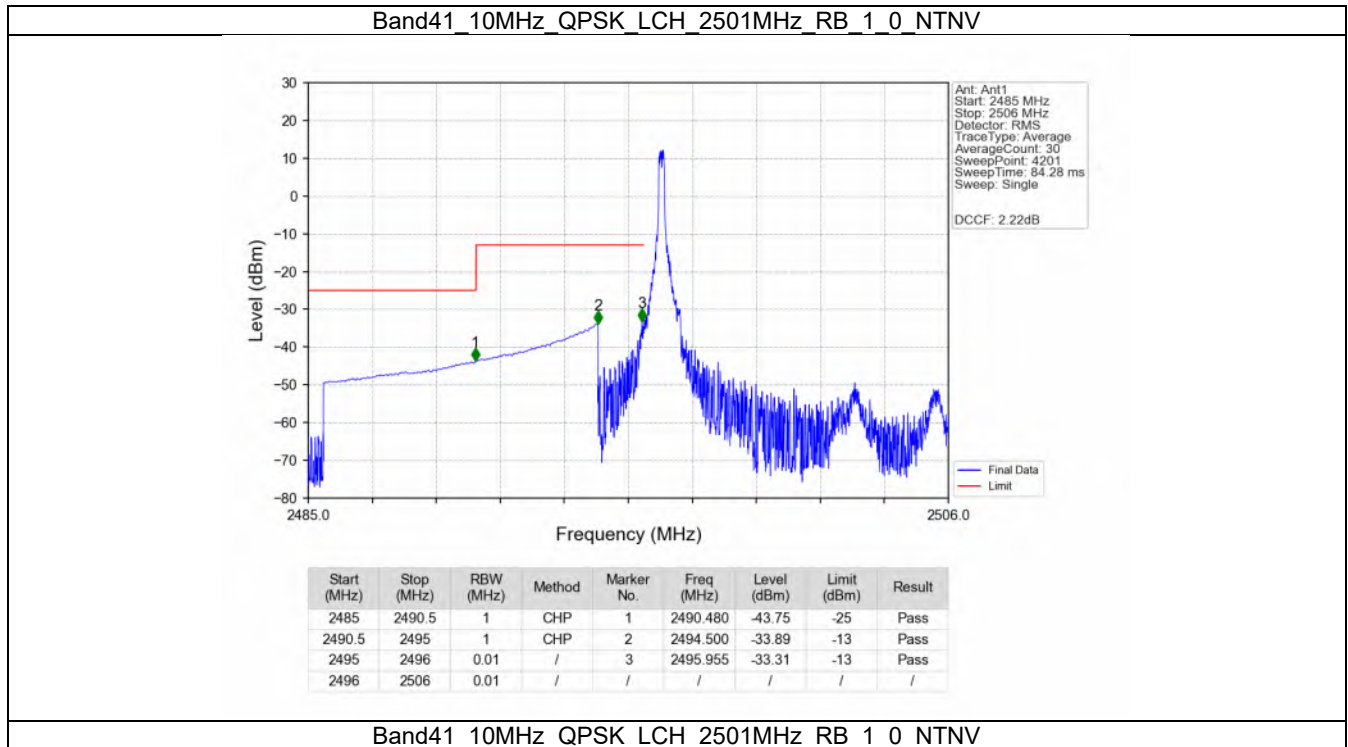
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2685	2690	0.02	CHP	/	/	/	/	/
2690	2691	0.02	CHP	1	2690.030	-29.58	-10	Pass
2691	2695	1	CHP	2	2691.500	-32.11	-10	Pass
2695	2696	1	CHP	3	2695.255	-42.99	-13	Pass
2696	2700	1	CHP	4	2696.040	-44.16	-25	Pass

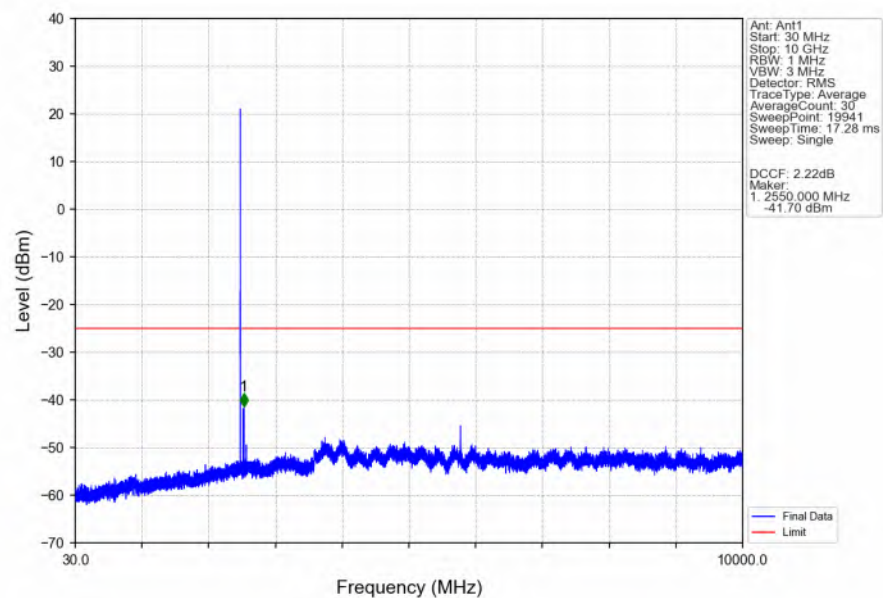
Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



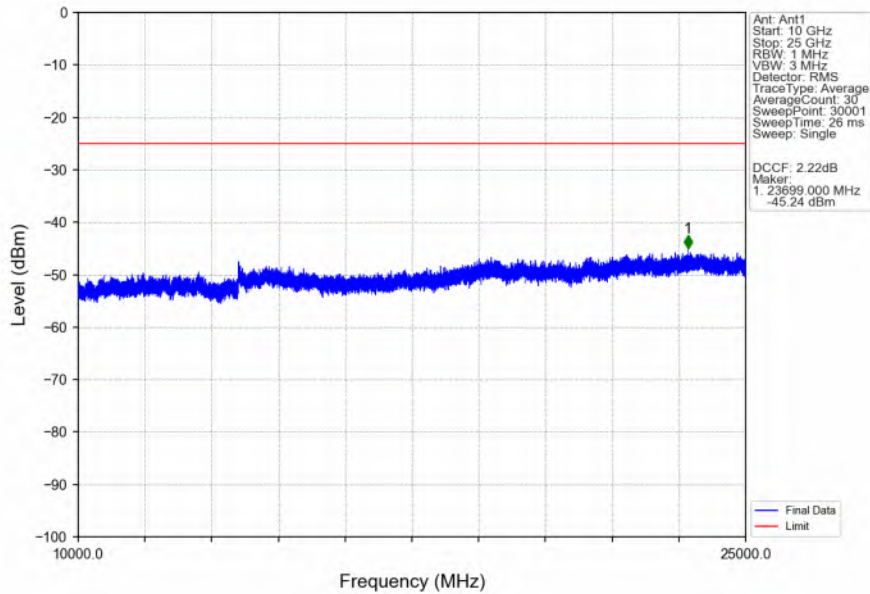
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2685	2690	0.1	/	/	/	/	/	/
2690	2691	0.1	/	1	2690.010	-26.97	-10	Pass
2691	2695	1	CHP	2	2691.510	-27.44	-10	Pass
2695	2696	1	CHP	3	2695.005	-38.14	-13	Pass
2696	2700	1	CHP	4	2696.010	-41.46	-25	Pass

5.2.2 B41_10MHz

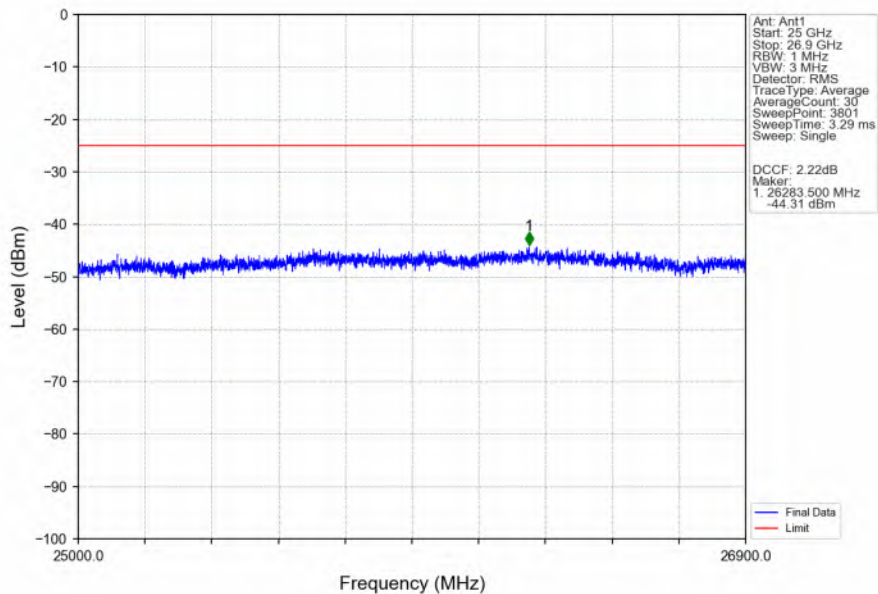




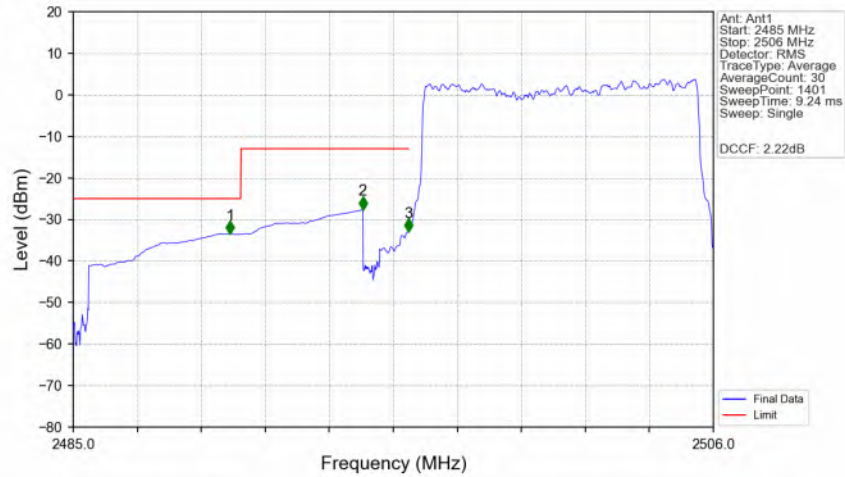
Band41_10MHz_QPSK_LCH_2501MHz_RB_1_0_NTNV



Band41_10MHz_QPSK_LCH_2501MHz_RB_1_0_NTNV

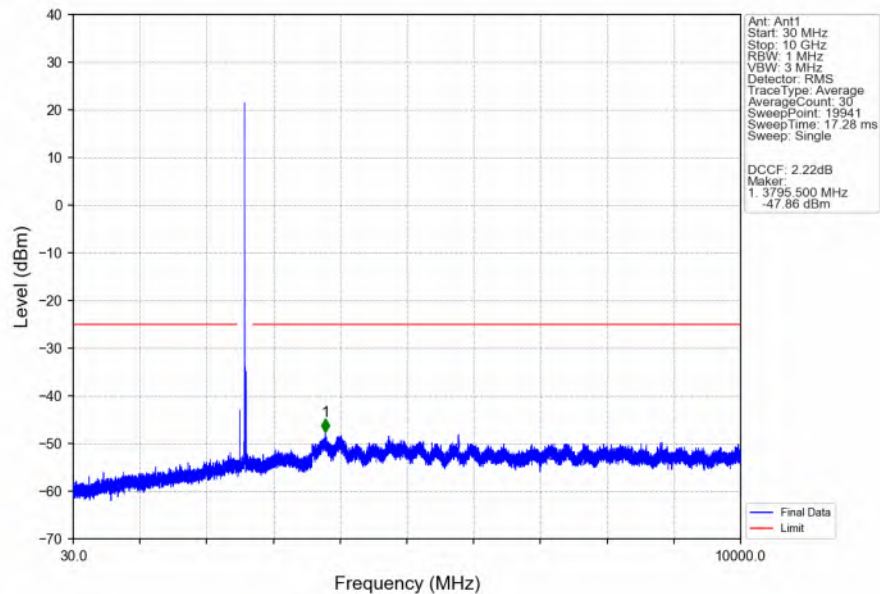


Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV

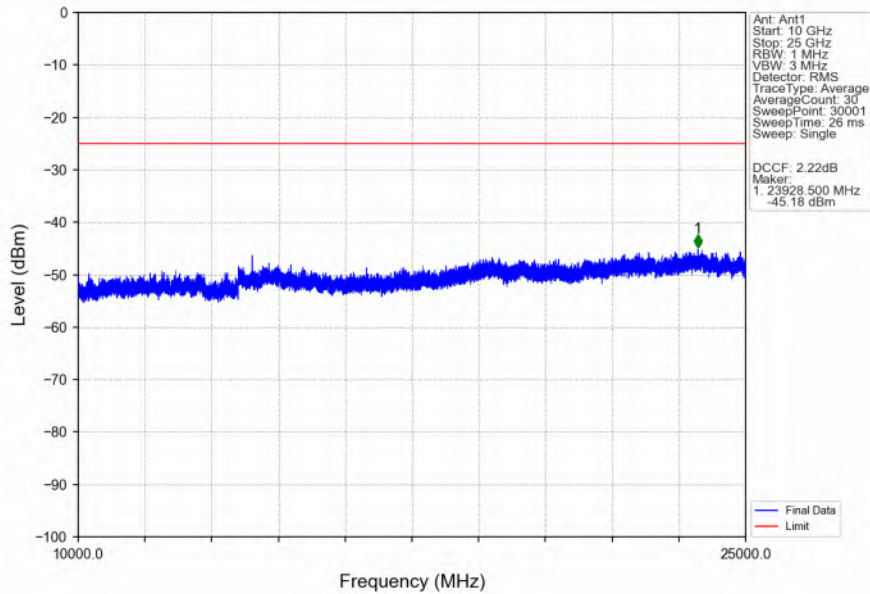


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.145	-33.43	-25	Pass
2490.5	2495	1	CHP	2	2494.495	-27.58	-13	Pass
2495	2496	0.096	CHP	3	2495.995	-32.95	-13	Pass
2496	2506	0.096	CHP	/	/	/	/	/

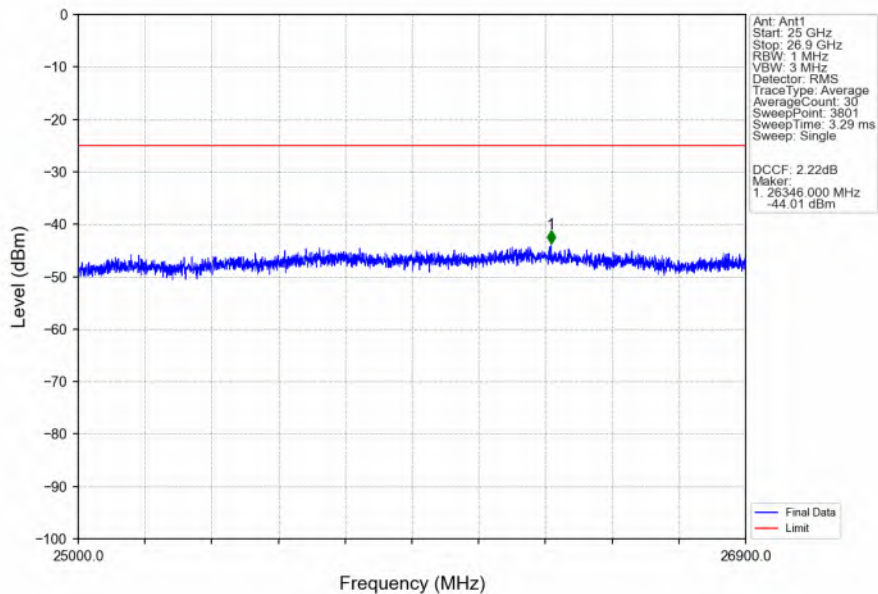
Band41_10MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



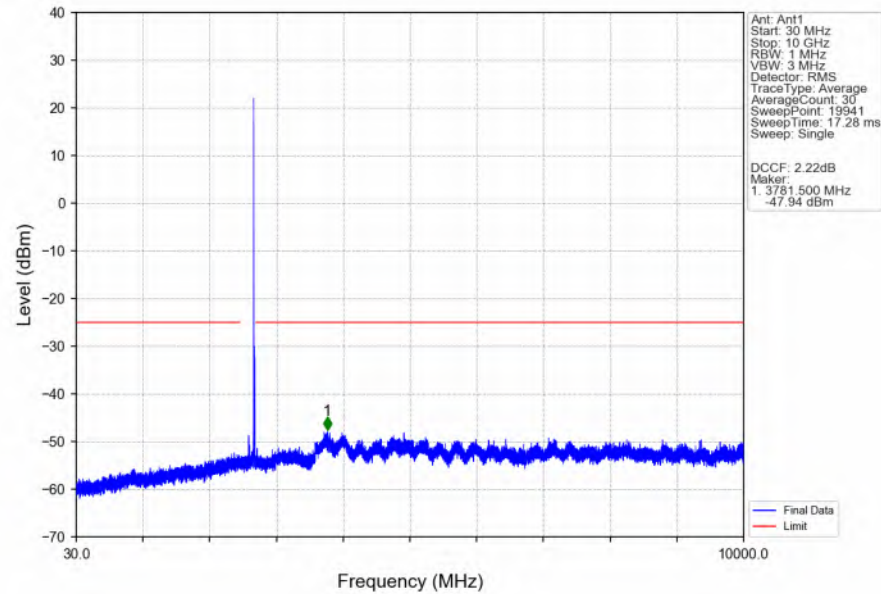
Band41_10MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



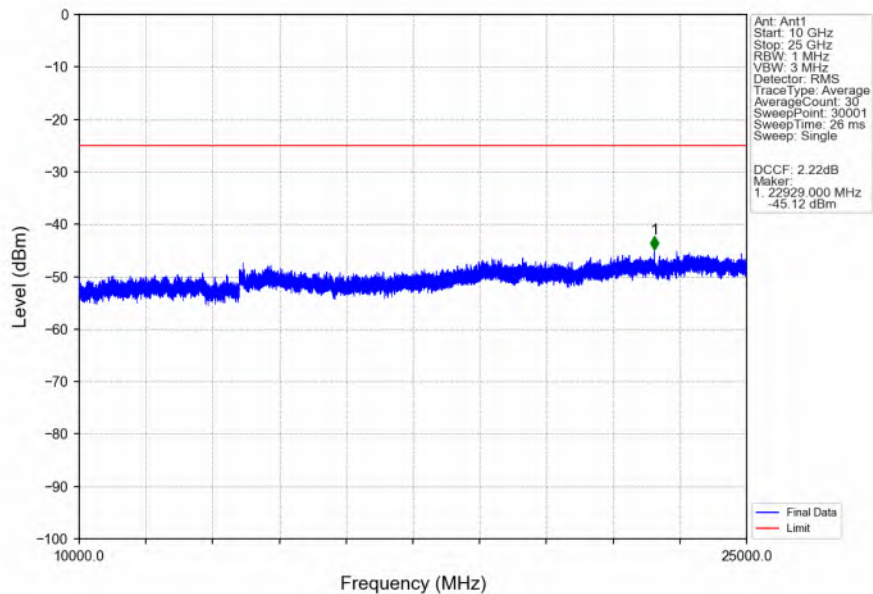
Band41_10MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



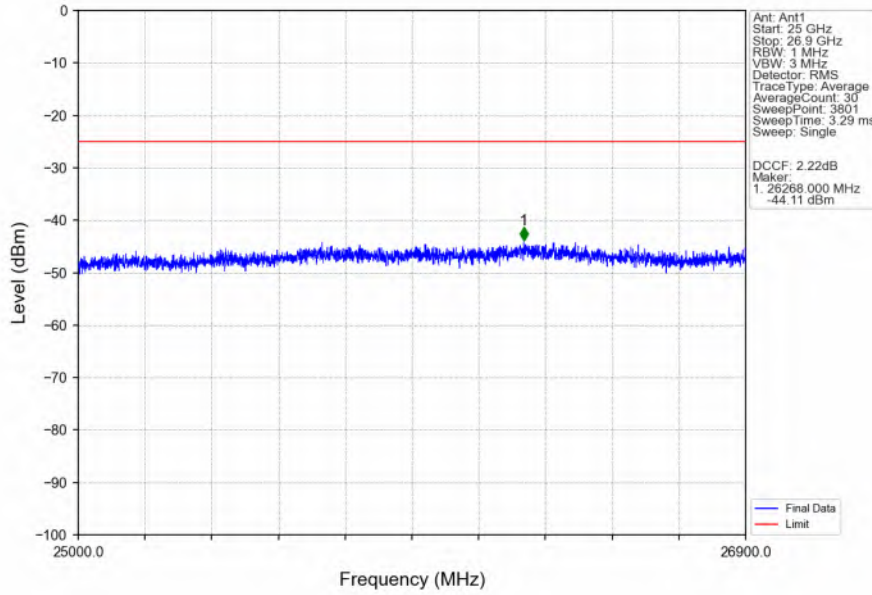
Band41_10MHz_QPSK_HCH_2685MHz_RB_1_0_NTNV



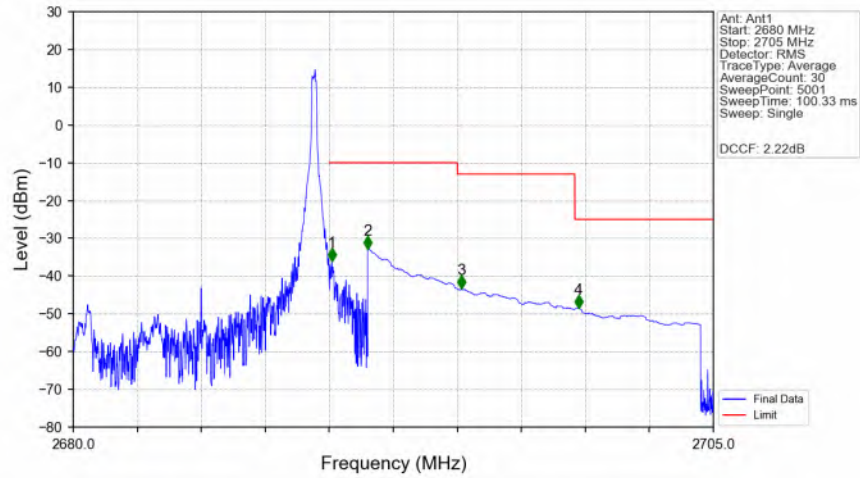
Band41_10MHz_QPSK_HCH_2685MHz_RB_1_0_NTNV



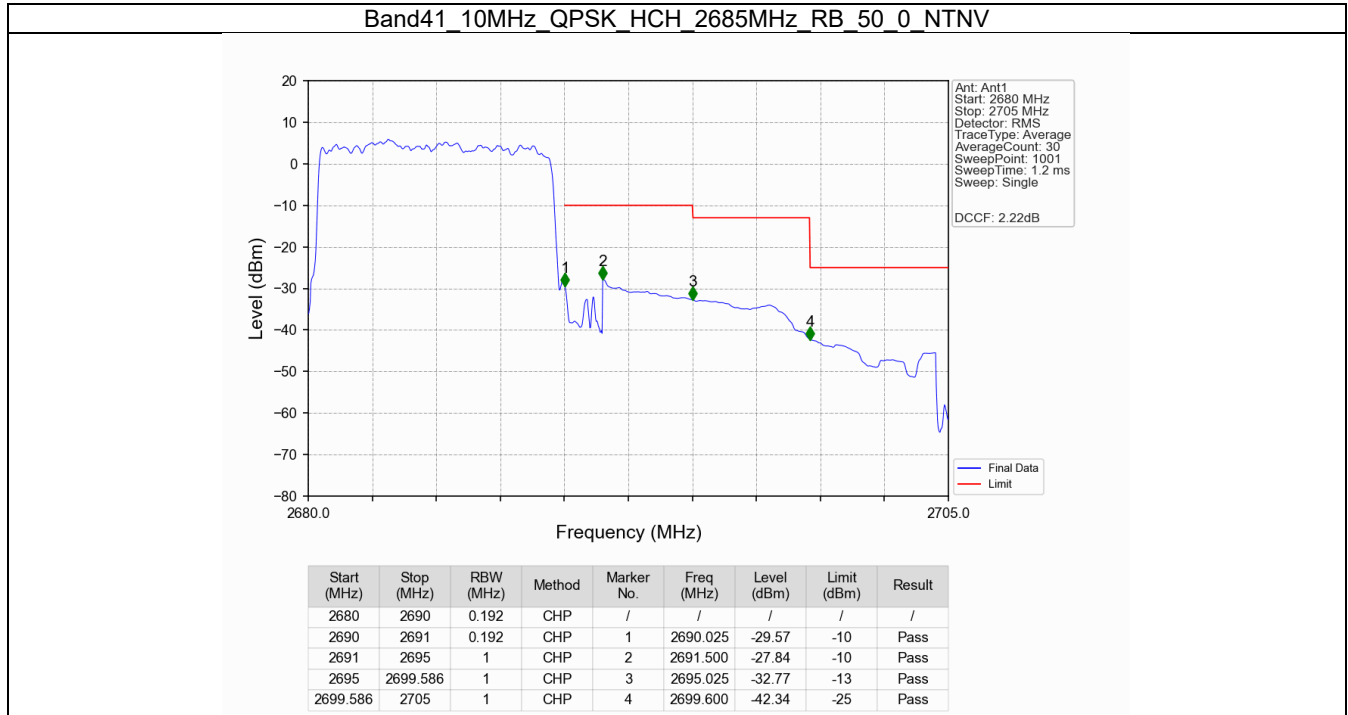
Band41_10MHz_QPSK_HCH_2685MHz_RB_1_0_NTNV



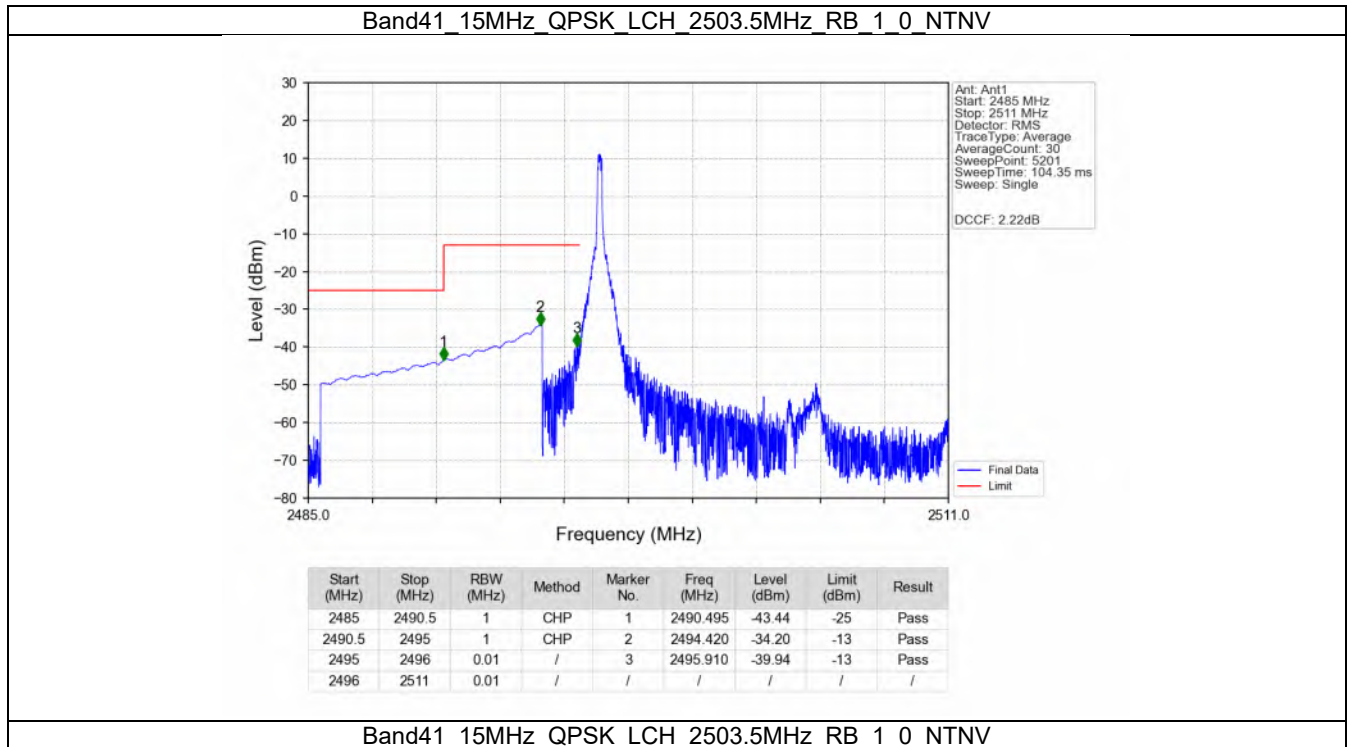
Band41_10MHz_QPSK_HCH_2685MHz_RB_1_49_NTNV

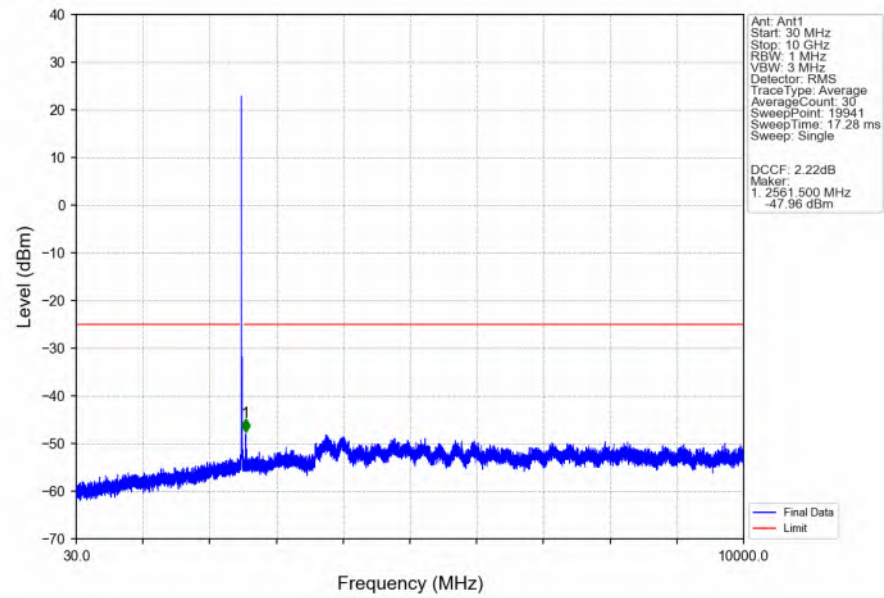


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2680	2690	0.02	CHP	/	/	/	/	/
2690	2691	0.02	CHP	1	2690.095	-36.15	-10	Pass
2691	2695	1	CHP	2	2691.510	-32.81	-10	Pass
2695	2699.586	1	CHP	3	2695.150	-43.35	-13	Pass
2699.586	2705	1	CHP	4	2699.730	-48.49	-25	Pass

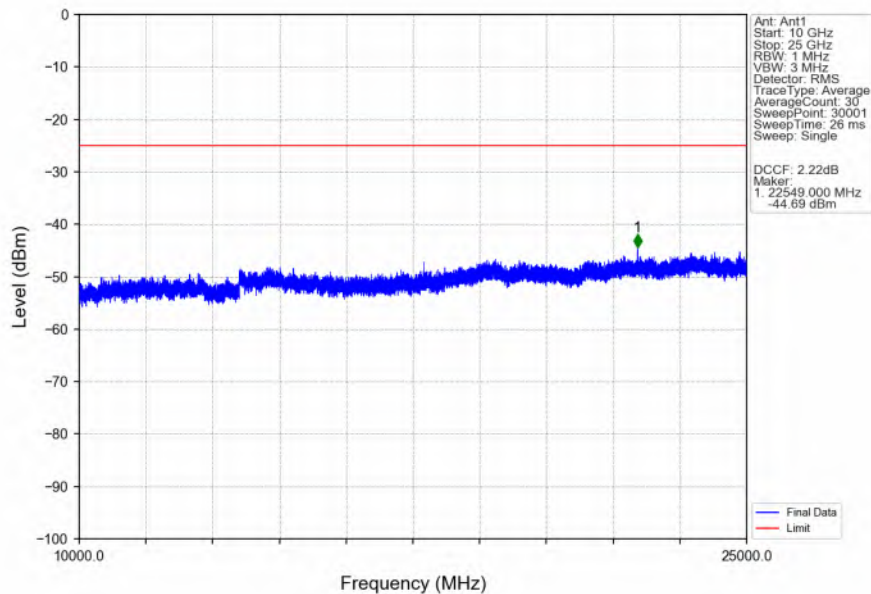


5.2.3 B41_15MHz

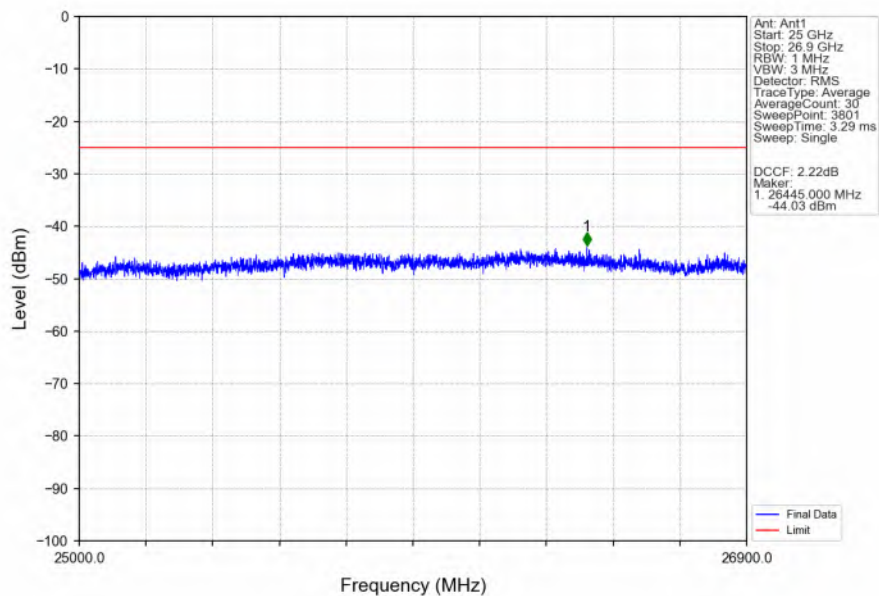




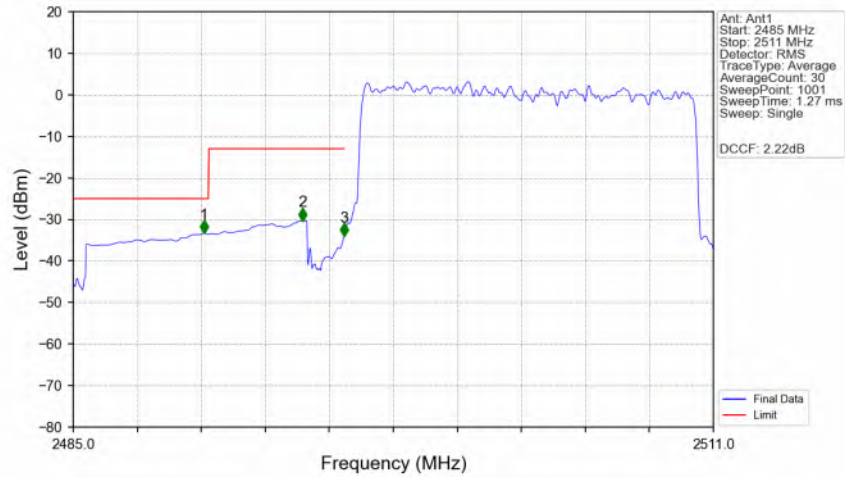
Band41_15MHz_QPSK_LCH_2503.5MHz_RB_1_0_NTNV



Band41_15MHz_QPSK_LCH_2503.5MHz_RB_1_0_NTNV

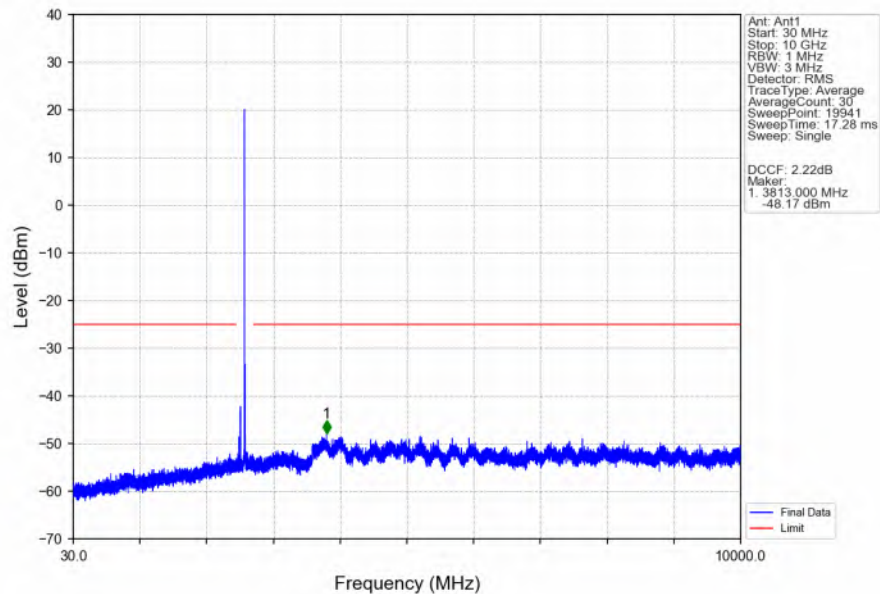


Band41_15MHz_QPSK_LCH_2503.5MHz_RB_75_0_NTNV

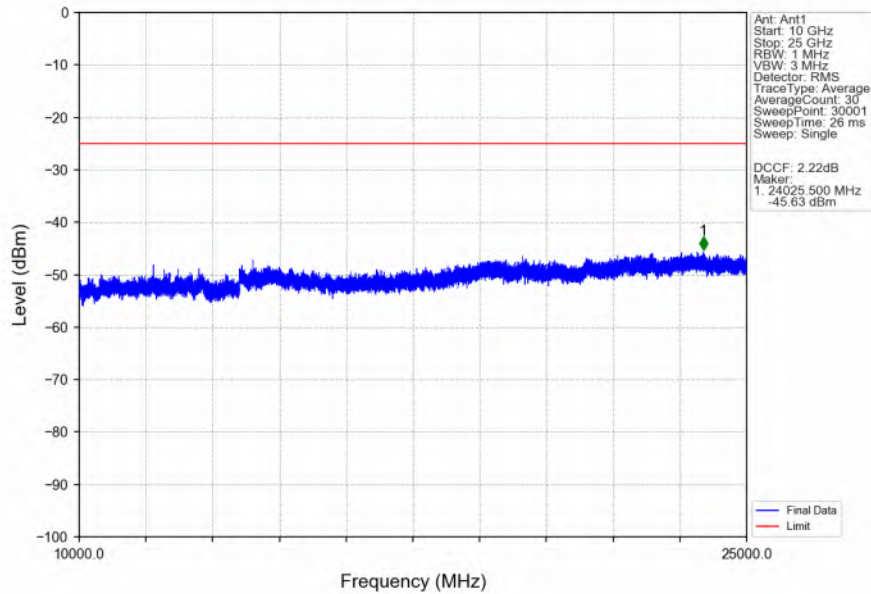


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.304	-33.34	-25	Pass
2490.5	2495	1	CHP	2	2494.308	-30.31	-13	Pass
2495	2496	0.146	CHP	3	2495.998	-34.13	-13	Pass
2496	2511	0.146	CHP	/	/	/	/	/

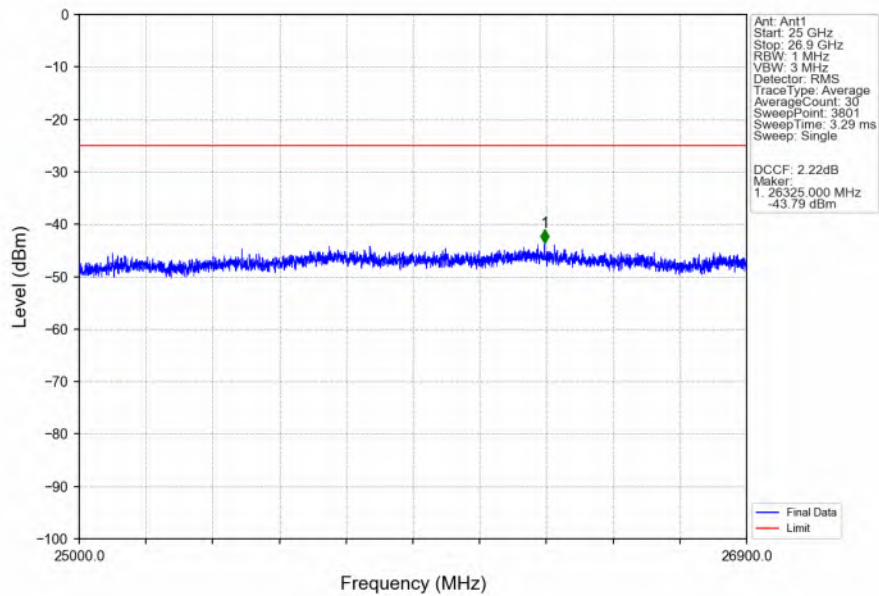
Band41_15MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



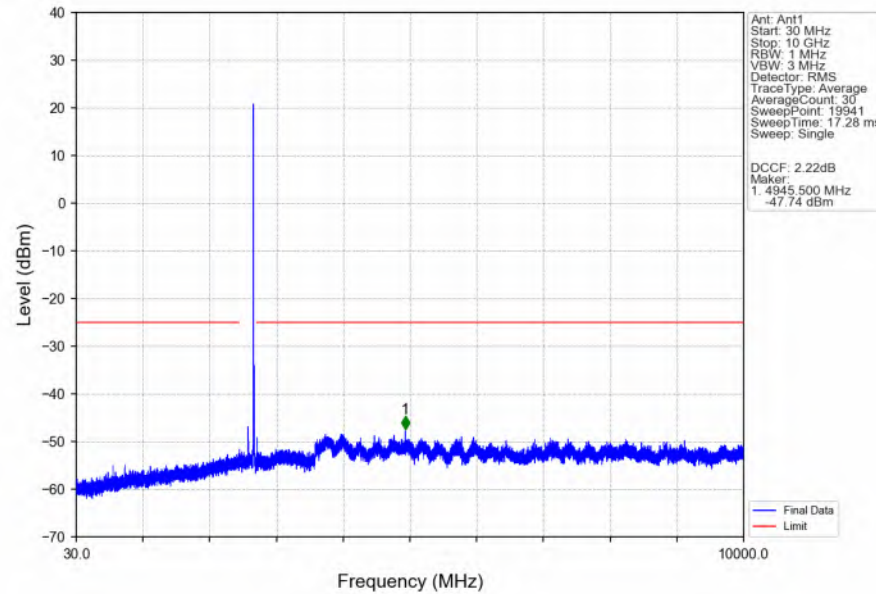
Band41_15MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



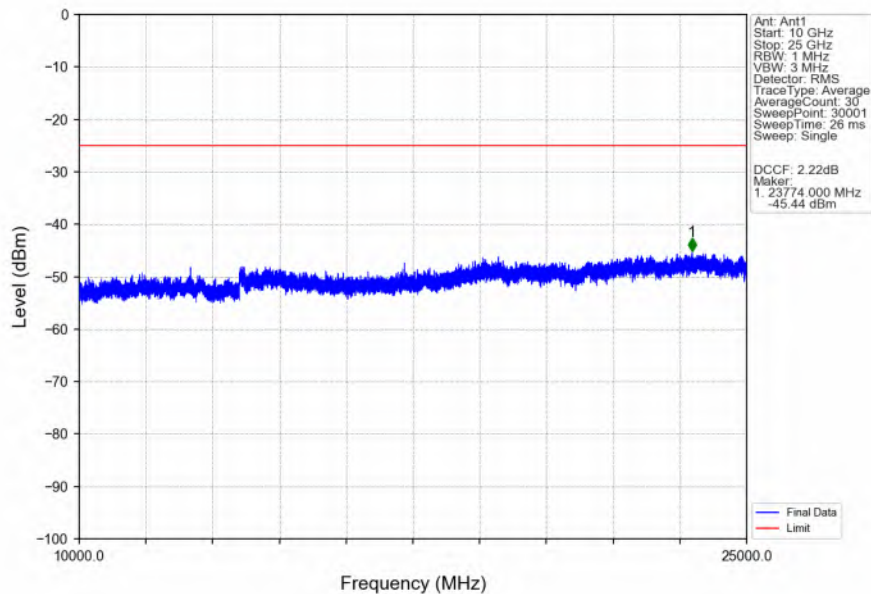
Band41_15MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



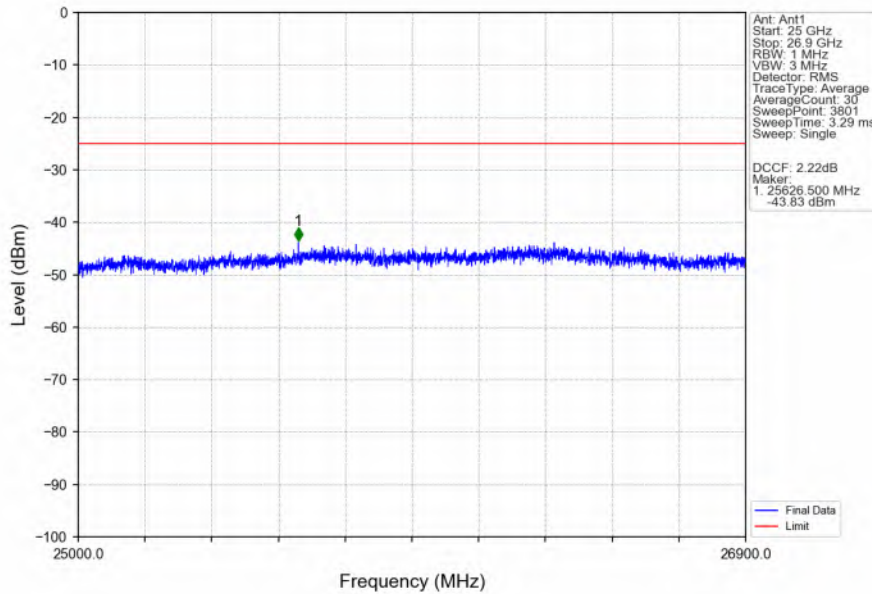
Band41_15MHz_QPSK_HCH_2682.5MHz_RB_1_0_NTNV



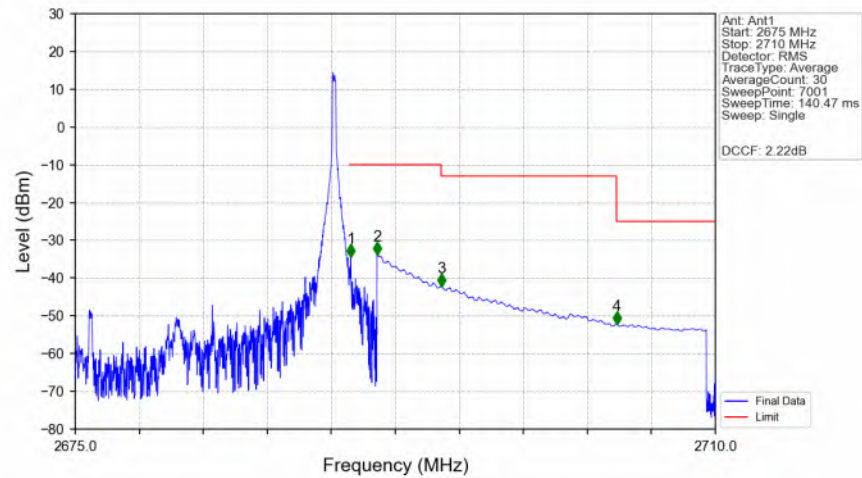
Band41_15MHz_QPSK_HCH_2682.5MHz_RB_1_0_NTNV



Band41_15MHz_QPSK_HCH_2682.5MHz_RB_1_0_NTNV

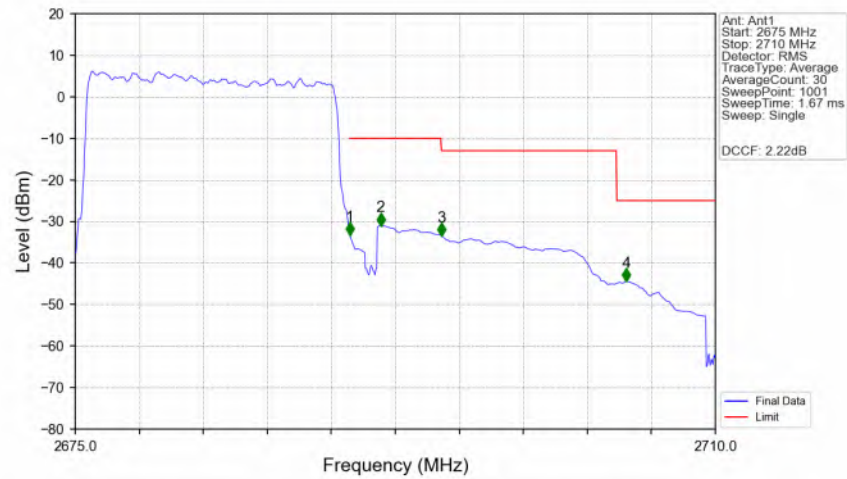


Band41_15MHz_QPSK_HCH_2682.5MHz_RB_1_74_NTNV



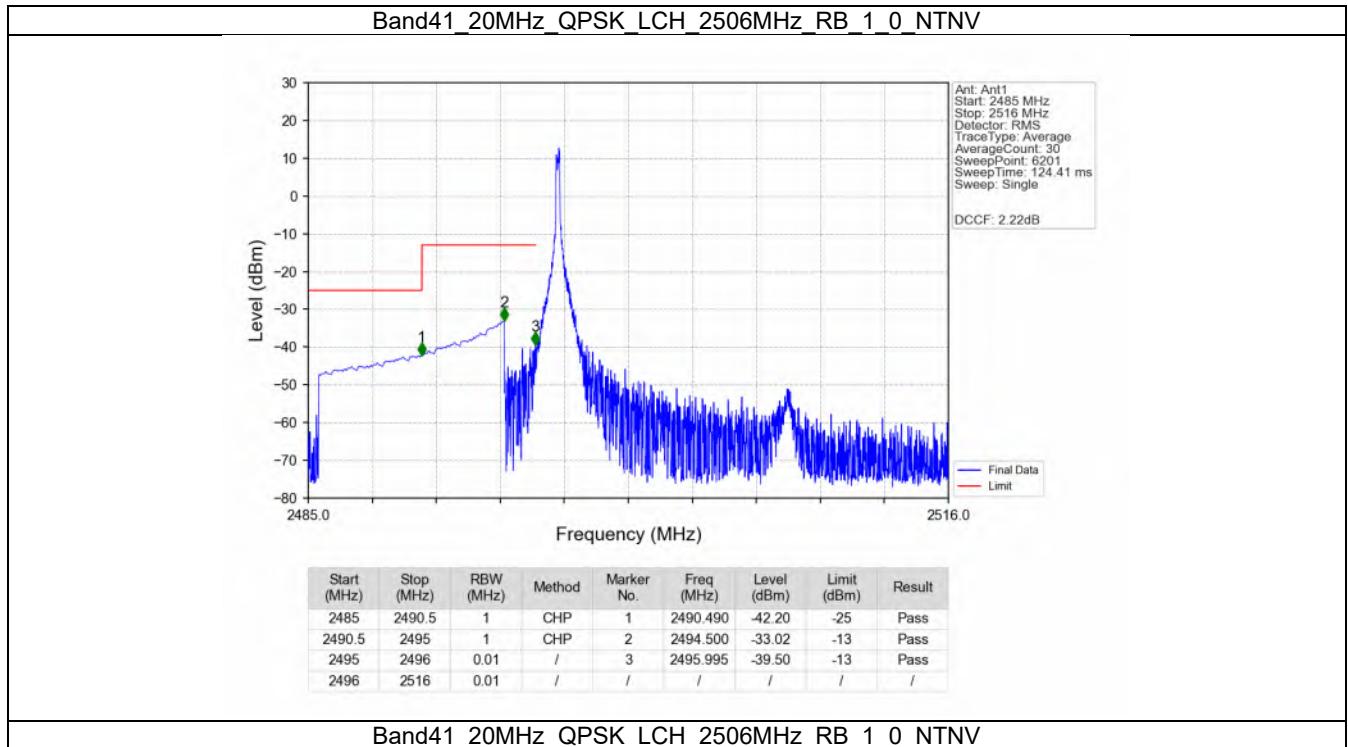
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.02	CHP	/	/	/	/	/
2690	2691	0.02	CHP	1	2690.065	-34.38	-10	Pass
2691	2695	1	CHP	2	2691.500	-33.94	-10	Pass
2695	2704.591	1	CHP	3	2695.005	-42.26	-13	Pass
2704.591	2710	1	CHP	4	2704.610	-52.20	-25	Pass

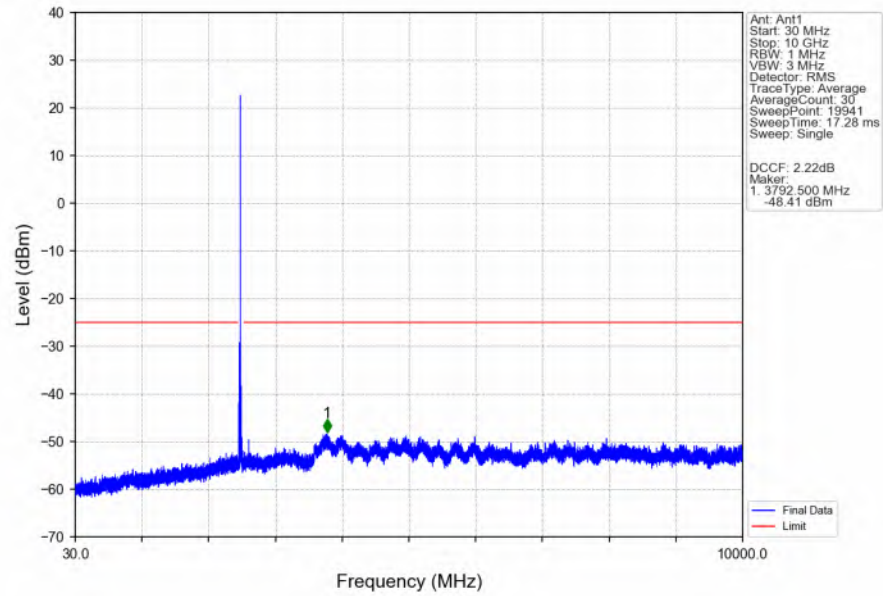
Band41_15MHz_QPSK_HCH_2682.5MHz_RB_75_0_NTNV



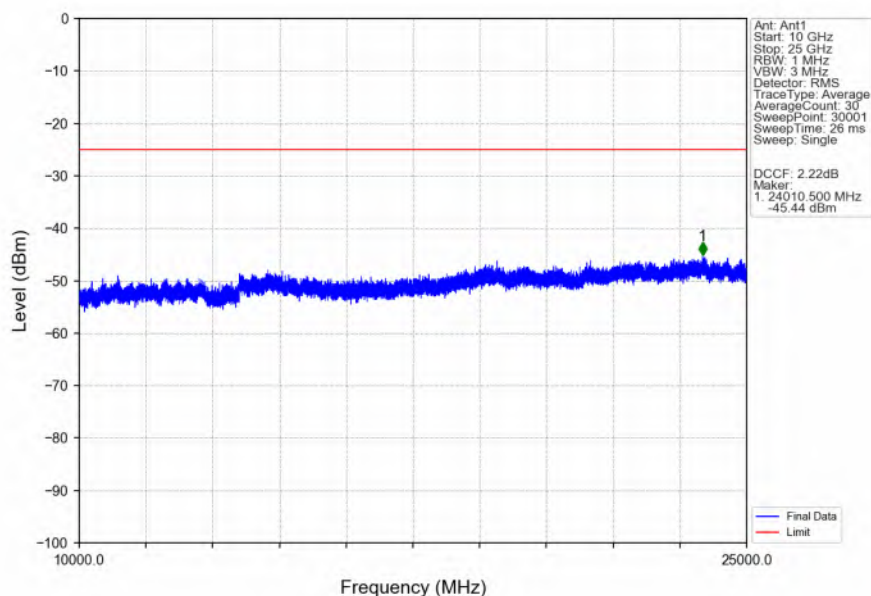
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.292	CHP	/	/	/	/	/
2690	2691	0.292	CHP	1	2690.015	-33.39	-10	Pass
2691	2695	1	CHP	2	2691.695	-31.04	-10	Pass
2695	2704.591	1	CHP	3	2695.020	-33.50	-13	Pass
2704.591	2710	1	CHP	4	2705.135	-44.45	-25	Pass

5.2.4 B41_20MHz

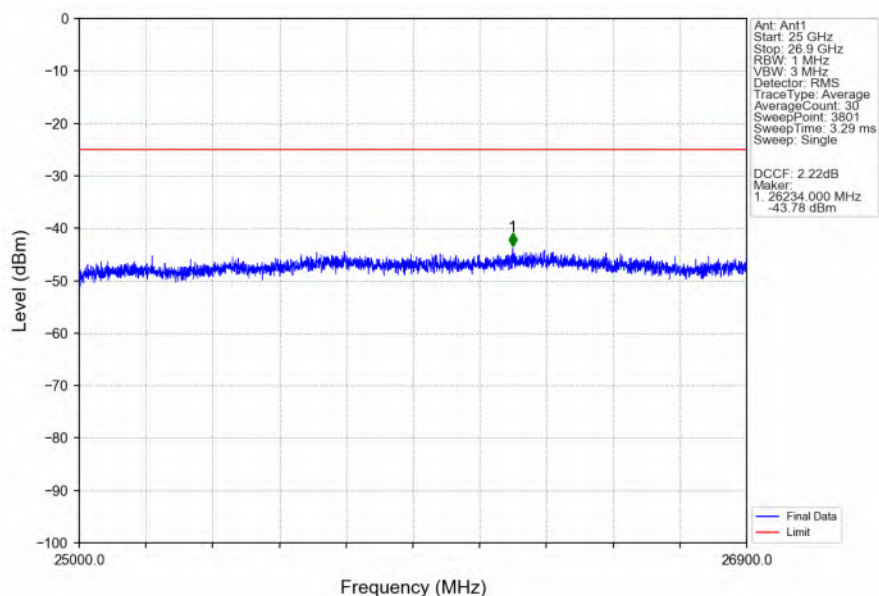




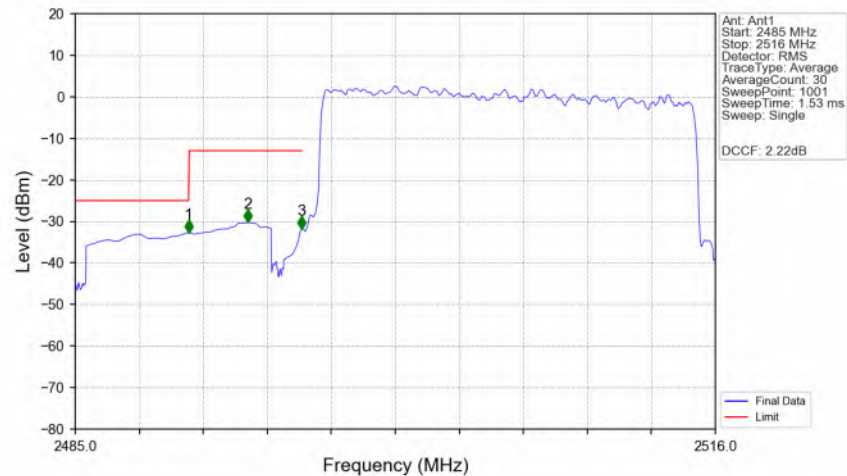
Band41_20MHz_QPSK_LCH_2506MHz_RB_1_0_NTNV



Band41_20MHz_QPSK_LCH_2506MHz_RB_1_0_NTNV

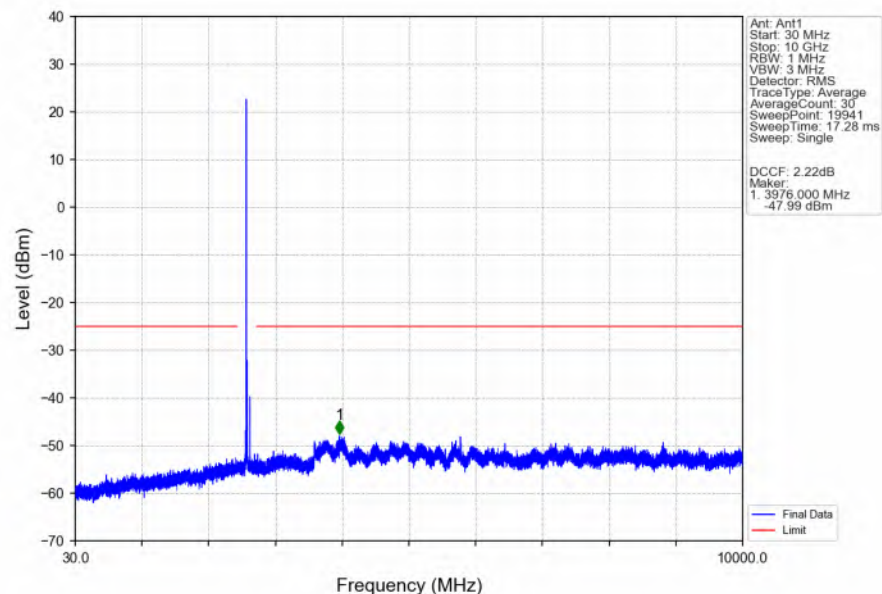


Band41_20MHz_QPSK_LCH_2506MHz_RB_100_0_NTNV

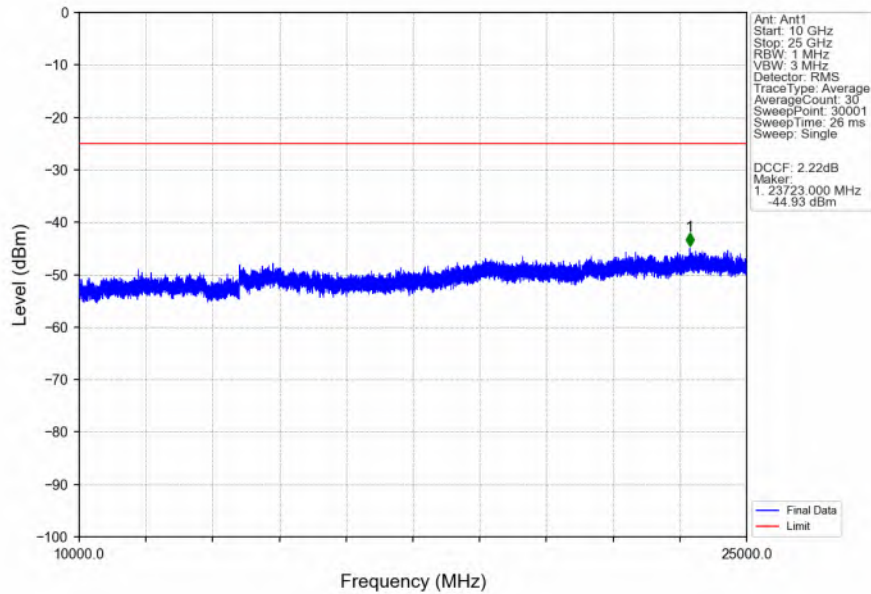


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.487	-32.77	-25	Pass
2490.5	2495	1	CHP	2	2493.370	-30.27	-13	Pass
2495	2496	0.193	CHP	3	2495.974	-31.94	-13	Pass
2496	2516	0.193	CHP	/	/	/	/	/

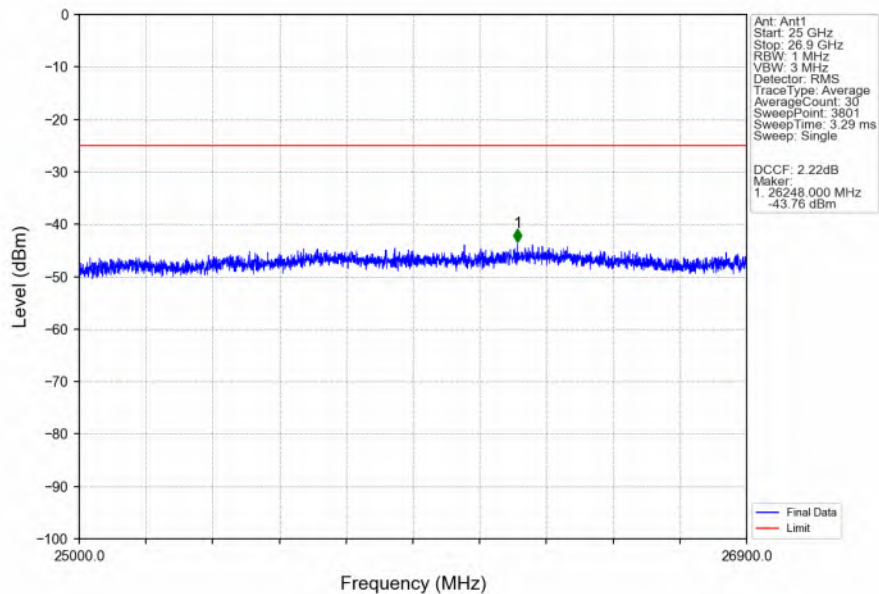
Band41_20MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



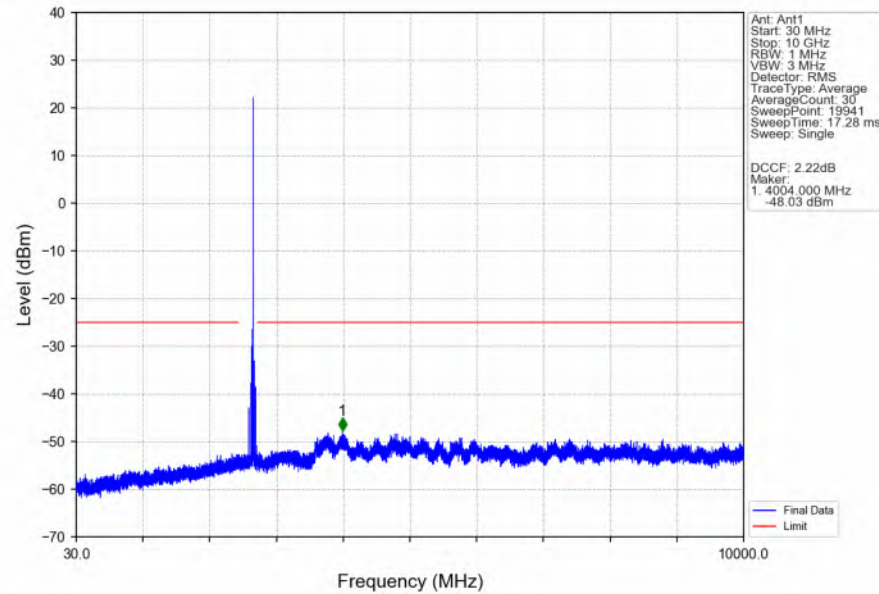
Band41_20MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



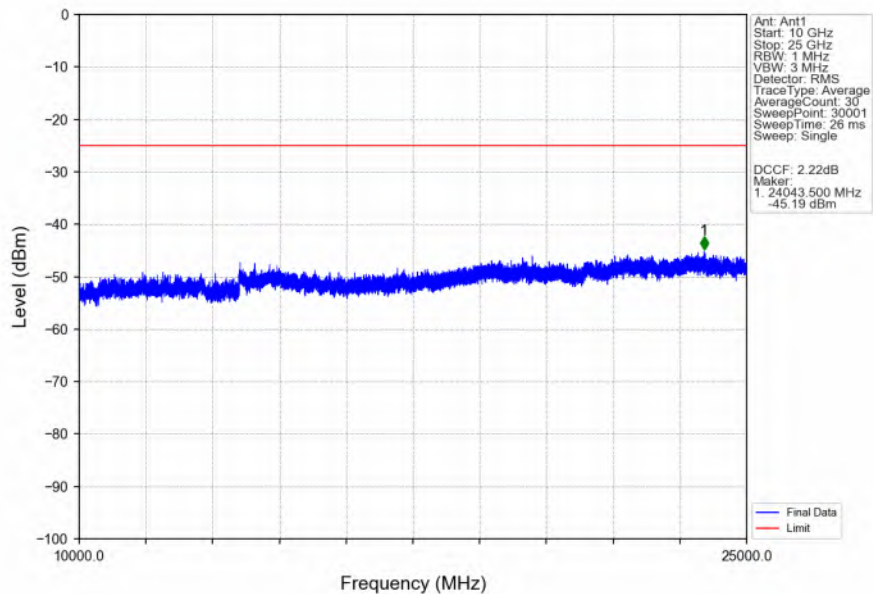
Band41_20MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



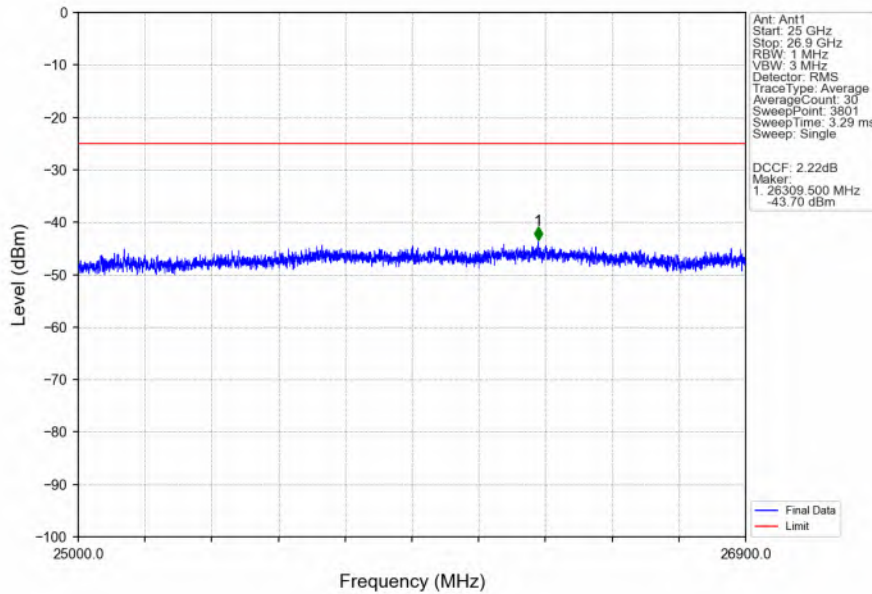
Band41_20MHz_QPSK_HCH_2680MHz_RB_1_0_NTNV



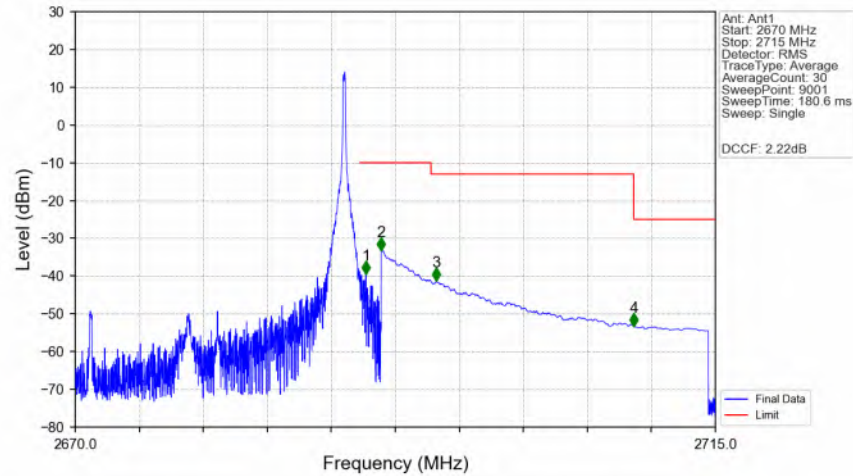
Band41_20MHz_QPSK_HCH_2680MHz_RB_1_0_NTNV



Band41_20MHz_QPSK_HCH_2680MHz_RB_1_0_NTNV

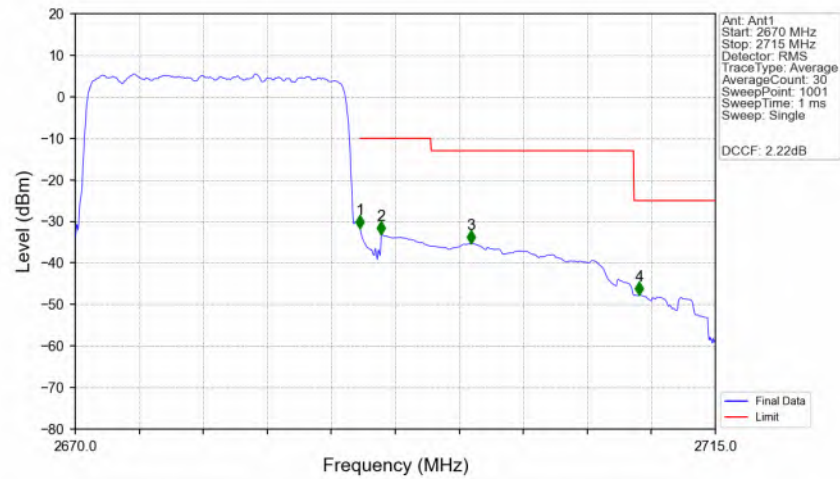


Band41_20MHz_QPSK_HCH_2680MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2670	2690	0.02	CHP	/	/	/	/	/
2690	2691	0.02	CHP	1	2690.430	-39.56	-10	Pass
2691	2695	1	CHP	2	2691.515	-33.21	-10	Pass
2695	2709.257	1	CHP	3	2695.385	-41.34	-13	Pass
2709.257	2715	1	CHP	4	2709.260	-53.35	-25	Pass

Band41_20MHz_QPSK_HCH_2680MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2670	2690	0.385	CHP	/	/	/	/	/
2690	2691	0.385	CHP	1	2690.025	-31.63	-10	Pass
2691	2695	1	CHP	2	2691.510	-33.20	-10	Pass
2695	2709.257	1	CHP	3	2697.810	-35.30	-13	Pass
2709.257	2715	1	CHP	4	2709.645	-47.64	-25	Pass



6. Frequency Stability (IC)

6.1 Test Result

6.1.1 B41_10MHz

Band: 41 / Bandwidth: 10MHz / NTVN									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	OBW (FL - FH) (MHz)		Limit	Verdict
		Size	Offset			FL	FH		
QPSK	2593	50	0	20	3.27	2588.457	2597.525	2496 to 2690	Pass
					3.85	2588.465	2597.538	2496 to 2690	Pass
					4.43	2588.461	2597.530	2496 to 2690	Pass
				-30	3.85	2588.457	2597.539	2496 to 2690	Pass
				-20	3.85	2588.466	2597.527	2496 to 2690	Pass
				-10	3.85	2588.473	2597.531	2496 to 2690	Pass
				0	3.85	2588.472	2597.540	2496 to 2690	Pass
				10	3.85	2588.455	2597.545	2496 to 2690	Pass
				30	3.85	2588.461	2597.556	2496 to 2690	Pass
				40	3.85	2588.456	2597.530	2496 to 2690	Pass
				50	3.85	2588.458	2597.540	2496 to 2690	Pass

---End of Attachment---