

Appendix F for KSCR2207001105AT-FCC-LTE-Band40a

1. Effective (Isotropic) Radiated Power Output Data

1.1 B40a_5MHz_EIRP

1.1.1 Test Result

Band: 40a / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2307.5	1	0	21.94	0.02	21.96	<=23.98	Pass
			13	22.15	0.02	22.17	<=23.98	Pass
			24	22.05	0.02	22.07	<=23.98	Pass
		12	0	21.05	0.02	21.07	<=23.98	Pass
			6	21.26	0.02	21.28	<=23.98	Pass
			13	21.20	0.02	21.22	<=23.98	Pass
		25	0	21.11	0.02	21.13	<=23.98	Pass
			0	22.10	0.02	22.12	<=23.98	Pass
			13	22.23	0.02	22.25	<=23.98	Pass
	2310	1	0	21.06	0.02	21.08	<=23.98	Pass
			6	21.22	0.02	21.24	<=23.98	Pass
			13	21.19	0.02	21.21	<=23.98	Pass
		12	0	21.15	0.02	21.17	<=23.98	Pass
			0	22.06	0.02	22.08	<=23.98	Pass
			13	22.15	0.02	22.17	<=23.98	Pass
		25	0	22.08	0.02	22.10	<=23.98	Pass
			6	21.09	0.02	21.11	<=23.98	Pass
			13	21.30	0.02	21.32	<=23.98	Pass
	2312.5	1	6	21.18	0.02	21.20	<=23.98	Pass
			13	21.12	0.02	21.14	<=23.98	Pass
			0	20.81	0.02	20.83	<=23.98	Pass
		12	13	21.23	0.02	21.25	<=23.98	Pass
			24	21.06	0.02	21.08	<=23.98	Pass
			0	20.09	0.02	20.11	<=23.98	Pass
25		6	20.11	0.02	20.13	<=23.98	Pass	
		13	20.20	0.02	20.22	<=23.98	Pass	
		0	20.12	0.02	20.14	<=23.98	Pass	
16QAM	2307.5	1	0	21.20	0.02	21.22	<=23.98	Pass
			13	21.30	0.02	21.32	<=23.98	Pass
			24	21.15	0.02	21.17	<=23.98	Pass
		12	0	20.17	0.02	20.19	<=23.98	Pass
			6	20.12	0.02	20.14	<=23.98	Pass
			13	20.17	0.02	20.19	<=23.98	Pass
		25	0	20.15	0.02	20.17	<=23.98	Pass
			0	21.08	0.02	21.10	<=23.98	Pass
			13	21.30	0.02	21.32	<=23.98	Pass
2310	1	24	21.08	0.02	21.10	<=23.98	Pass	
		0	20.12	0.02	20.14	<=23.98	Pass	
		6	20.14	0.02	20.16	<=23.98	Pass	
	12	13	20.18	0.02	20.20	<=23.98	Pass	

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64QAM	2307.5	25	0	20.10	0.02	20.12	<=23.98	Pass	
			1	0	20.26	0.02	20.28	<=23.98	Pass
				13	20.43	0.02	20.45	<=23.98	Pass
		12	24	20.44	0.02	20.46	<=23.98	Pass	
			0	19.07	0.02	19.09	<=23.98	Pass	
			6	19.29	0.02	19.31	<=23.98	Pass	
	2310	25	13	19.14	0.02	19.16	<=23.98	Pass	
			1	0	19.19	0.02	19.21	<=23.98	Pass
				0	20.25	0.02	20.27	<=23.98	Pass
		12	13	20.45	0.02	20.47	<=23.98	Pass	
			24	19.78	0.02	19.80	<=23.98	Pass	
			0	19.08	0.02	19.10	<=23.98	Pass	
	2312.5	25	6	19.15	0.02	19.17	<=23.98	Pass	
			1	13	19.12	0.02	19.14	<=23.98	Pass
				0	19.00	0.02	19.02	<=23.98	Pass
		12	0	20.10	0.02	20.12	<=23.98	Pass	
			13	20.45	0.02	20.47	<=23.98	Pass	
			24	20.44	0.02	20.46	<=23.98	Pass	
	2310	25	0	19.14	0.02	19.16	<=23.98	Pass	
			1	6	19.18	0.02	19.20	<=23.98	Pass
				13	19.14	0.02	19.16	<=23.98	Pass
		12	0	19.15	0.02	19.17	<=23.98	Pass	
			25	0	19.15	0.02	19.17	<=23.98	Pass
			0	19.15	0.02	19.17	<=23.98	Pass	

Note1: EIRP=Conducted Power+Antenna Gain

1.2 B40a_10MHz_EIRP

1.2.1 Test Result

Band: 40a / Bandwidth: 10MHz / NTV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2310	1	0	22.13	0.02	22.15	<=23.98	Pass	
			25	22.40	0.02	22.42	<=23.98	Pass	
			49	22.21	0.02	22.23	<=23.98	Pass	
		25	0	21.21	0.02	21.23	<=23.98	Pass	
			13	21.25	0.02	21.27	<=23.98	Pass	
			25	21.24	0.02	21.26	<=23.98	Pass	
	2310	50	0	21.16	0.02	21.18	<=23.98	Pass	
			1	0	22.26	0.02	22.28	<=23.98	Pass
				25	22.42	0.02	22.44	<=23.98	Pass
		25	49	22.17	0.02	22.19	<=23.98	Pass	
			0	21.31	0.02	21.33	<=23.98	Pass	
			13	21.24	0.02	21.26	<=23.98	Pass	
	2310	50	25	21.19	0.02	21.21	<=23.98	Pass	
			1	0	21.23	0.02	21.25	<=23.98	Pass
				0	22.19	0.02	22.21	<=23.98	Pass
		25	25	22.25	0.02	22.27	<=23.98	Pass	
			49	22.18	0.02	22.20	<=23.98	Pass	
			0	21.19	0.02	21.21	<=23.98	Pass	
	2310	50	13	21.19	0.02	21.21	<=23.98	Pass	
			1	25	21.19	0.02	21.21	<=23.98	Pass
				25	21.19	0.02	21.21	<=23.98	Pass
		50	0	21.17	0.02	21.19	<=23.98	Pass	
			0	21.17	0.02	21.19	<=23.98	Pass	
			0	21.17	0.02	21.19	<=23.98	Pass	

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16QAM	2310	1	0	21.40	0.02	21.42	<=23.98	Pass
			25	21.36	0.02	21.38	<=23.98	Pass
			49	21.34	0.02	21.36	<=23.98	Pass
		25	0	20.29	0.02	20.31	<=23.98	Pass
			13	20.36	0.02	20.38	<=23.98	Pass
			25	20.31	0.02	20.33	<=23.98	Pass
	50	0	20.16	0.02	20.18	<=23.98	Pass	
	2310	1	0	21.13	0.02	21.15	<=23.98	Pass
			25	21.36	0.02	21.38	<=23.98	Pass
			49	21.35	0.02	21.37	<=23.98	Pass
		25	0	20.24	0.02	20.26	<=23.98	Pass
			13	20.30	0.02	20.32	<=23.98	Pass
			25	20.32	0.02	20.34	<=23.98	Pass
	50	0	20.16	0.02	20.18	<=23.98	Pass	
	2310	1	0	21.38	0.02	21.40	<=23.98	Pass
			25	21.37	0.02	21.39	<=23.98	Pass
			49	21.33	0.02	21.35	<=23.98	Pass
		25	0	20.33	0.02	20.35	<=23.98	Pass
13			20.26	0.02	20.28	<=23.98	Pass	
25			20.34	0.02	20.36	<=23.98	Pass	
50	0	20.29	0.02	20.31	<=23.98	Pass		
64QAM	2310	1	0	20.29	0.02	20.31	<=23.98	Pass
			25	20.69	0.02	20.71	<=23.98	Pass
			49	20.04	0.02	20.06	<=23.98	Pass
		25	0	19.18	0.02	19.20	<=23.98	Pass
			13	19.30	0.02	19.32	<=23.98	Pass
			25	19.17	0.02	19.19	<=23.98	Pass
	50	0	19.25	0.02	19.27	<=23.98	Pass	
	2310	1	0	19.85	0.02	19.87	<=23.98	Pass
			25	20.74	0.02	20.76	<=23.98	Pass
			49	19.99	0.02	20.01	<=23.98	Pass
		25	0	19.24	0.02	19.26	<=23.98	Pass
			13	19.24	0.02	19.26	<=23.98	Pass
			25	19.26	0.02	19.28	<=23.98	Pass
	50	0	19.16	0.02	19.18	<=23.98	Pass	
	2310	1	0	20.69	0.02	20.71	<=23.98	Pass
			25	19.89	0.02	19.91	<=23.98	Pass
			49	19.85	0.02	19.87	<=23.98	Pass
		25	0	19.14	0.02	19.16	<=23.98	Pass
13			19.15	0.02	19.17	<=23.98	Pass	
25			19.18	0.02	19.20	<=23.98	Pass	
50	0	19.28	0.02	19.30	<=23.98	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 B40a_5MHz

2.1.1 Test Result

Band: 40a / Bandwidth: 5MHz



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Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2307.5	25	0	20	3.23	9.284	0.0040	-2.5 to 2.5	Pass
					3.80	7.267	0.0031	-2.5 to 2.5	Pass
					4.37	0.100	0.0000	-2.5 to 2.5	Pass
				-30	3.80	1.445	0.0006	-2.5 to 2.5	Pass
				-20	3.80	-1.945	-0.0008	-2.5 to 2.5	Pass
				-10	3.80	-0.415	-0.0002	-2.5 to 2.5	Pass
				0	3.80	-0.458	-0.0002	-2.5 to 2.5	Pass
				10	3.80	10.486	0.0045	-2.5 to 2.5	Pass
				30	3.80	9.713	0.0042	-2.5 to 2.5	Pass
				40	3.80	7.024	0.0030	-2.5 to 2.5	Pass
	50	3.80	0.815	0.0004	-2.5 to 2.5	Pass			
	2310	25	0	20	3.23	-6.452	-0.0028	-2.5 to 2.5	Pass
					3.80	-7.052	-0.0031	-2.5 to 2.5	Pass
					4.37	3.905	0.0017	-2.5 to 2.5	Pass
				-30	3.80	-5.207	-0.0023	-2.5 to 2.5	Pass
				-20	3.80	-5.851	-0.0025	-2.5 to 2.5	Pass
				-10	3.80	-3.104	-0.0013	-2.5 to 2.5	Pass
				0	3.80	5.236	0.0023	-2.5 to 2.5	Pass
				10	3.80	4.506	0.0020	-2.5 to 2.5	Pass
				30	3.80	-4.635	-0.0020	-2.5 to 2.5	Pass
				40	3.80	4.706	0.0020	-2.5 to 2.5	Pass
	50	3.80	-8.225	-0.0036	-2.5 to 2.5	Pass			
	2312.5	25	0	20	3.23	-0.143	-0.0001	-2.5 to 2.5	Pass
					3.80	0.043	0.0000	-2.5 to 2.5	Pass
					4.37	7.267	0.0031	-2.5 to 2.5	Pass
				-30	3.80	2.589	0.0011	-2.5 to 2.5	Pass
				-20	3.80	-1.588	-0.0007	-2.5 to 2.5	Pass
				-10	3.80	9.441	0.0041	-2.5 to 2.5	Pass
				0	3.80	-1.345	-0.0006	-2.5 to 2.5	Pass
				10	3.80	5.379	0.0023	-2.5 to 2.5	Pass
30				3.80	3.705	0.0016	-2.5 to 2.5	Pass	
40				3.80	8.783	0.0038	-2.5 to 2.5	Pass	
50	3.80	2.131	0.0009	-2.5 to 2.5	Pass				
16QAM	2307.5	25	0	20	3.23	4.263	0.0018	-2.5 to 2.5	Pass
					3.80	0.815	0.0004	-2.5 to 2.5	Pass
					4.37	1.302	0.0006	-2.5 to 2.5	Pass
				-30	3.80	10.171	0.0044	-2.5 to 2.5	Pass
				-20	3.80	1.473	0.0006	-2.5 to 2.5	Pass
				-10	3.80	9.770	0.0042	-2.5 to 2.5	Pass
				0	3.80	11.158	0.0048	-2.5 to 2.5	Pass
				10	3.80	11.330	0.0049	-2.5 to 2.5	Pass
				30	3.80	10.915	0.0047	-2.5 to 2.5	Pass
				40	3.80	9.656	0.0042	-2.5 to 2.5	Pass
	50	3.80	10.772	0.0047	-2.5 to 2.5	Pass			
	2310	25	0	20	3.23	-2.761	-0.0012	-2.5 to 2.5	Pass
					3.80	5.250	0.0023	-2.5 to 2.5	Pass
					4.37	-2.518	-0.0011	-2.5 to 2.5	Pass
				-30	3.80	-1.845	-0.0008	-2.5 to 2.5	Pass
				-20	3.80	-5.522	-0.0024	-2.5 to 2.5	Pass
				-10	3.80	2.189	0.0009	-2.5 to 2.5	Pass
				0	3.80	4.306	0.0019	-2.5 to 2.5	Pass
				10	3.80	-6.795	-0.0029	-2.5 to 2.5	Pass

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	2312.5	25	0	30	3.80	-4.950	-0.0021	-2.5 to 2.5	Pass
				40	3.80	-2.446	-0.0011	-2.5 to 2.5	Pass
				50	3.80	-5.379	-0.0023	-2.5 to 2.5	Pass
				20	3.23	-0.014	0.0000	-2.5 to 2.5	Pass
					3.80	7.424	0.0032	-2.5 to 2.5	Pass
					4.37	4.792	0.0021	-2.5 to 2.5	Pass
				-30	3.80	-1.574	-0.0007	-2.5 to 2.5	Pass
				-20	3.80	-1.287	-0.0006	-2.5 to 2.5	Pass
				-10	3.80	-3.190	-0.0014	-2.5 to 2.5	Pass
				0	3.80	7.510	0.0032	-2.5 to 2.5	Pass
				10	3.80	8.368	0.0036	-2.5 to 2.5	Pass
				30	3.80	0.601	0.0003	-2.5 to 2.5	Pass
				40	3.80	6.294	0.0027	-2.5 to 2.5	Pass
50	3.80	-1.345	-0.0006	-2.5 to 2.5	Pass				
64QAM	2307.5	25	0	20	3.23	1.044	0.0005	-2.5 to 2.5	Pass
					3.80	-3.548	-0.0015	-2.5 to 2.5	Pass
					4.37	-9.356	-0.0041	-2.5 to 2.5	Pass
				-30	3.80	-12.288	-0.0053	-2.5 to 2.5	Pass
				-20	3.80	-11.401	-0.0049	-2.5 to 2.5	Pass
				-10	3.80	-15.578	-0.0068	-2.5 to 2.5	Pass
				0	3.80	-21.858	-0.0095	-2.5 to 2.5	Pass
				10	3.80	-25.320	-0.0110	-2.5 to 2.5	Pass
				30	3.80	-26.722	-0.0116	-2.5 to 2.5	Pass
	40	3.80	-24.834	-0.0108	-2.5 to 2.5	Pass			
	50	3.80	-27.637	-0.0120	-2.5 to 2.5	Pass			
	2310	25	0	20	3.23	-470.839	-0.2038	-2.5 to 2.5	Pass
					3.80	-471.182	-0.2040	-2.5 to 2.5	Pass
					4.37	-477.934	-0.2069	-2.5 to 2.5	Pass
				-30	3.80	-480.981	-0.2082	-2.5 to 2.5	Pass
				-20	3.80	-480.280	-0.2079	-2.5 to 2.5	Pass
				-10	3.80	-483.427	-0.2093	-2.5 to 2.5	Pass
				0	3.80	-485.144	-0.2100	-2.5 to 2.5	Pass
				10	3.80	-491.252	-0.2127	-2.5 to 2.5	Pass
				30	3.80	-482.497	-0.2089	-2.5 to 2.5	Pass
	40	3.80	-481.567	-0.2085	-2.5 to 2.5	Pass			
50	3.80	-482.125	-0.2087	-2.5 to 2.5	Pass				
2312.5	25	0	20	3.23	17.309	0.0075	-2.5 to 2.5	Pass	
				3.80	9.956	0.0043	-2.5 to 2.5	Pass	
				4.37	9.871	0.0043	-2.5 to 2.5	Pass	
			-30	3.80	5.565	0.0024	-2.5 to 2.5	Pass	
			-20	3.80	2.489	0.0011	-2.5 to 2.5	Pass	
			-10	3.80	-0.529	-0.0002	-2.5 to 2.5	Pass	
			0	3.80	0.029	0.0000	-2.5 to 2.5	Pass	
			10	3.80	-0.243	-0.0001	-2.5 to 2.5	Pass	
			30	3.80	-4.020	-0.0017	-2.5 to 2.5	Pass	
40	3.80	-2.604	-0.0011	-2.5 to 2.5	Pass				
50	3.80	-9.170	-0.0040	-2.5 to 2.5	Pass				

2.2 B40a_10MHz

2.2.1 Test Result



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Band: 40a / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2310	50	0	20	3.23	2.117	0.0009	-2.5 to 2.5	Pass	
					3.80	0.472	0.0002	-2.5 to 2.5	Pass	
					4.37	-1.287	-0.0006	-2.5 to 2.5	Pass	
				-30	3.80	4.177	0.0018	-2.5 to 2.5	Pass	
					-20	3.80	5.865	0.0025	-2.5 to 2.5	Pass
						3.80	4.005	0.0017	-2.5 to 2.5	Pass
				0	3.80	2.518	0.0011	-2.5 to 2.5	Pass	
					3.80	-3.347	-0.0014	-2.5 to 2.5	Pass	
				3.80	-4.964	-0.0021	-2.5 to 2.5	Pass		
				3.80	-5.994	-0.0026	-2.5 to 2.5	Pass		
	3.80	2.961	0.0013	-2.5 to 2.5	Pass					
	2310	50	0	20	3.23	6.123	0.0027	-2.5 to 2.5	Pass	
					3.80	-2.017	-0.0009	-2.5 to 2.5	Pass	
					4.37	-4.249	-0.0018	-2.5 to 2.5	Pass	
				-30	3.80	-4.578	-0.0020	-2.5 to 2.5	Pass	
					-20	3.80	7.868	0.0034	-2.5 to 2.5	Pass
						3.80	-4.792	-0.0021	-2.5 to 2.5	Pass
				0	3.80	1.917	0.0008	-2.5 to 2.5	Pass	
					3.80	-3.619	-0.0016	-2.5 to 2.5	Pass	
				3.80	-1.388	-0.0006	-2.5 to 2.5	Pass		
				3.80	5.450	0.0024	-2.5 to 2.5	Pass		
	3.80	-0.744	-0.0003	-2.5 to 2.5	Pass					
	2310	50	0	20	3.23	3.405	0.0015	-2.5 to 2.5	Pass	
					3.80	-1.917	-0.0008	-2.5 to 2.5	Pass	
					4.37	1.903	0.0008	-2.5 to 2.5	Pass	
				-30	3.80	3.376	0.0015	-2.5 to 2.5	Pass	
					-20	3.80	3.548	0.0015	-2.5 to 2.5	Pass
						3.80	1.302	0.0006	-2.5 to 2.5	Pass
				0	3.80	-5.407	-0.0023	-2.5 to 2.5	Pass	
					3.80	2.632	0.0011	-2.5 to 2.5	Pass	
3.80				-3.347	-0.0014	-2.5 to 2.5	Pass			
3.80				7.567	0.0033	-2.5 to 2.5	Pass			
3.80	2.046	0.0009	-2.5 to 2.5	Pass						
16QAM	2310	50	0	20	3.23	-1.788	-0.0008	-2.5 to 2.5	Pass	
					3.80	1.974	0.0009	-2.5 to 2.5	Pass	
					4.37	3.362	0.0015	-2.5 to 2.5	Pass	
				-30	3.80	6.509	0.0028	-2.5 to 2.5	Pass	
					-20	3.80	7.296	0.0032	-2.5 to 2.5	Pass
						3.80	5.565	0.0024	-2.5 to 2.5	Pass
				0	3.80	-5.007	-0.0022	-2.5 to 2.5	Pass	
					3.80	5.651	0.0024	-2.5 to 2.5	Pass	
				3.80	-5.107	-0.0022	-2.5 to 2.5	Pass		
				3.80	-5.021	-0.0022	-2.5 to 2.5	Pass		
3.80	1.202	0.0005	-2.5 to 2.5	Pass						
2310	50	0	20	3.23	-4.864	-0.0021	-2.5 to 2.5	Pass		
				3.80	1.731	0.0007	-2.5 to 2.5	Pass		

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					4.37	5.536	0.0024	-2.5 to 2.5	Pass
				-30	3.80	-5.851	-0.0025	-2.5 to 2.5	Pass
				-20	3.80	-2.904	-0.0013	-2.5 to 2.5	Pass
				-10	3.80	2.217	0.0010	-2.5 to 2.5	Pass
				0	3.80	3.877	0.0017	-2.5 to 2.5	Pass
				10	3.80	-3.819	-0.0017	-2.5 to 2.5	Pass
				30	3.80	5.794	0.0025	-2.5 to 2.5	Pass
				40	3.80	-5.093	-0.0022	-2.5 to 2.5	Pass
				50	3.80	4.435	0.0019	-2.5 to 2.5	Pass
				2310	50	0	20	3.23	1.516
	3.80	-3.662	-0.0016					-2.5 to 2.5	Pass
	4.37	-5.579	-0.0024					-2.5 to 2.5	Pass
	-30	3.80	-2.975				-0.0013	-2.5 to 2.5	Pass
	-20	3.80	4.134				0.0018	-2.5 to 2.5	Pass
	-10	3.80	5.050				0.0022	-2.5 to 2.5	Pass
	0	3.80	-6.037				-0.0026	-2.5 to 2.5	Pass
	10	3.80	-3.347				-0.0014	-2.5 to 2.5	Pass
	30	3.80	-5.350				-0.0023	-2.5 to 2.5	Pass
	40	3.80	5.150				0.0022	-2.5 to 2.5	Pass
	50	3.80	5.364	0.0023	-2.5 to 2.5	Pass			
64QAM	2310	50	0	20	3.23	-7.496	-0.0032	-2.5 to 2.5	Pass
					3.80	-6.952	-0.0030	-2.5 to 2.5	Pass
					4.37	-0.029	0.0000	-2.5 to 2.5	Pass
				-30	3.80	-0.601	-0.0003	-2.5 to 2.5	Pass
				-20	3.80	-4.678	-0.0020	-2.5 to 2.5	Pass
				-10	3.80	-3.133	-0.0014	-2.5 to 2.5	Pass
				0	3.80	-1.159	-0.0005	-2.5 to 2.5	Pass
				10	3.80	-2.546	-0.0011	-2.5 to 2.5	Pass
				30	3.80	-4.449	-0.0019	-2.5 to 2.5	Pass
				40	3.80	-3.247	-0.0014	-2.5 to 2.5	Pass
	50	3.80	-5.121	-0.0022	-2.5 to 2.5	Pass			
	2310	50	0	20	3.23	-6.294	-0.0027	-2.5 to 2.5	Pass
					3.80	-3.405	-0.0015	-2.5 to 2.5	Pass
					4.37	-11.587	-0.0050	-2.5 to 2.5	Pass
				-30	3.80	-2.503	-0.0011	-2.5 to 2.5	Pass
				-20	3.80	-12.388	-0.0054	-2.5 to 2.5	Pass
				-10	3.80	-3.004	-0.0013	-2.5 to 2.5	Pass
				0	3.80	-2.875	-0.0012	-2.5 to 2.5	Pass
				10	3.80	-5.436	-0.0024	-2.5 to 2.5	Pass
				30	3.80	-6.995	-0.0030	-2.5 to 2.5	Pass
40				3.80	-5.865	-0.0025	-2.5 to 2.5	Pass	
50	3.80	-1.059	-0.0005	-2.5 to 2.5	Pass				
2310	50	0	20	3.23	-1.202	-0.0005	-2.5 to 2.5	Pass	
				3.80	-9.985	-0.0043	-2.5 to 2.5	Pass	
				4.37	-14.305	-0.0062	-2.5 to 2.5	Pass	
			-30	3.80	-7.811	-0.0034	-2.5 to 2.5	Pass	
			-20	3.80	-10.729	-0.0046	-2.5 to 2.5	Pass	
			-10	3.80	-10.128	-0.0044	-2.5 to 2.5	Pass	
			0	3.80	-10.514	-0.0046	-2.5 to 2.5	Pass	

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				10	3.80	-7.896	-0.0034	-2.5 to 2.5	Pass
				30	3.80	-7.439	-0.0032	-2.5 to 2.5	Pass
				40	3.80	-6.666	-0.0029	-2.5 to 2.5	Pass
				50	3.80	-12.202	-0.0053	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 B40a_5MHz

3.1.1 Test Result

Band: 40a / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	25	0	Refer To Test Graph		Pass
16QAM	2310	25	0	Refer To Test Graph		Pass
64QAM	2310	25	0	Refer To Test Graph		Pass



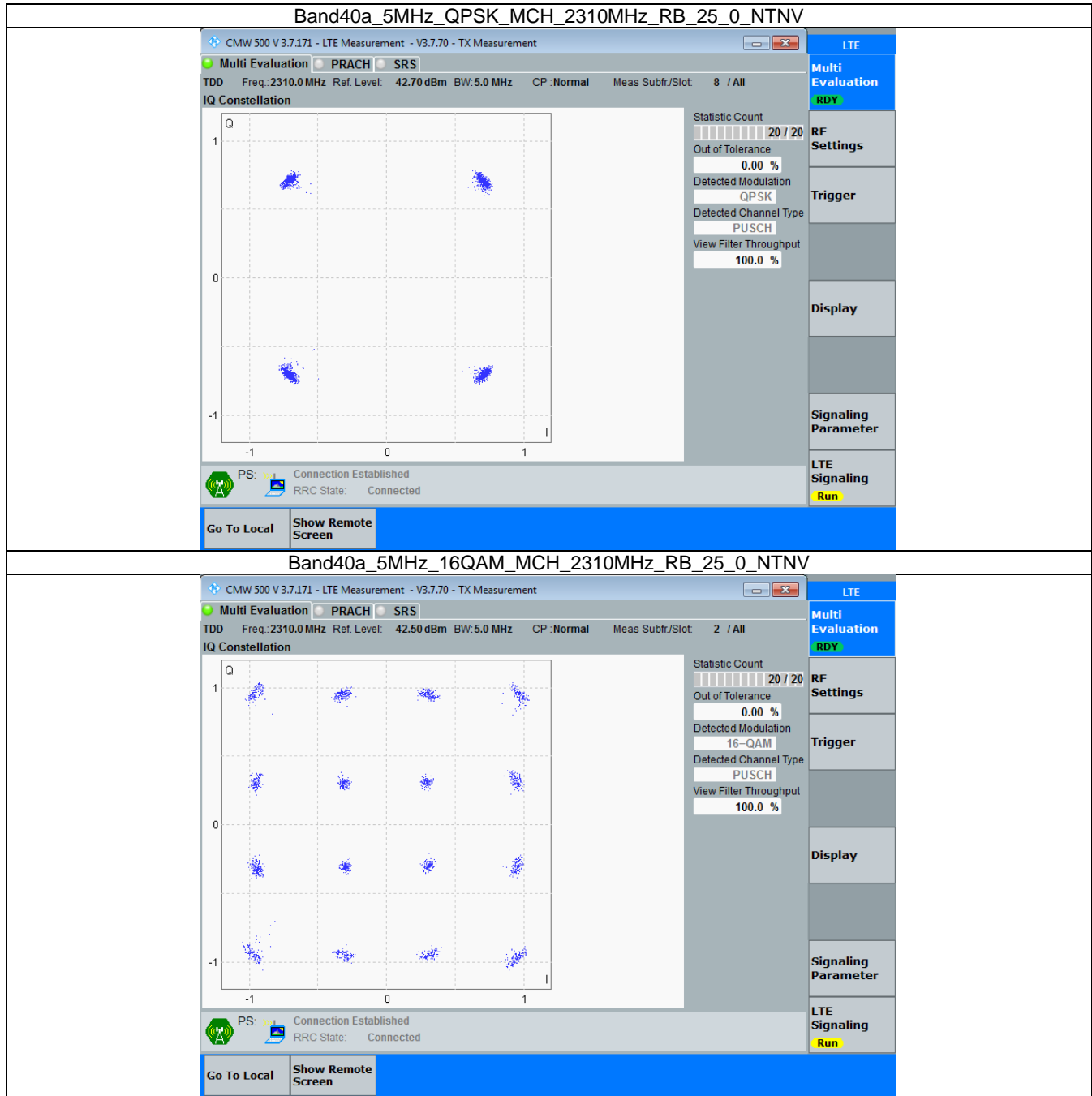
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3.1.2 Test Graph



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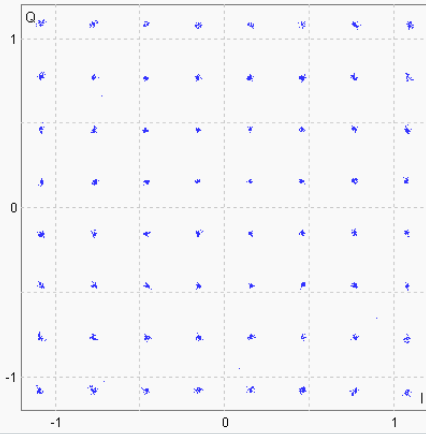
Band40a_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV

CMW 500 V 3.7.171 - LTE Measurement - V3.7.70 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2310.0 MHz Ref. Level: 42.10 dBm BW: 5.0 MHz CP: Normal Meas Subfr/Slot 7 / All

IQ Constellation



Statistic Count: 20 / 20

Out of Tolerance: 0.00 %

Detected Modulation: 64-QAM

Detected Channel Type: PUSCH

View Filter Throughput: 100.0 %

LTE

Multi Evaluation

RDY

RF Settings

Trigger

Display

Signaling Parameter

LTE Signaling

Run

PS: Connection Established

RRC State: Connected

Go To Local

Show Remote Screen



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3.2 B40a_10MHz

3.2.1 Test Result

Band: 40a / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	Refer To Test Graph		Pass
16QAM	2310	50	0	Refer To Test Graph		Pass
64QAM	2310	50	0	Refer To Test Graph		Pass



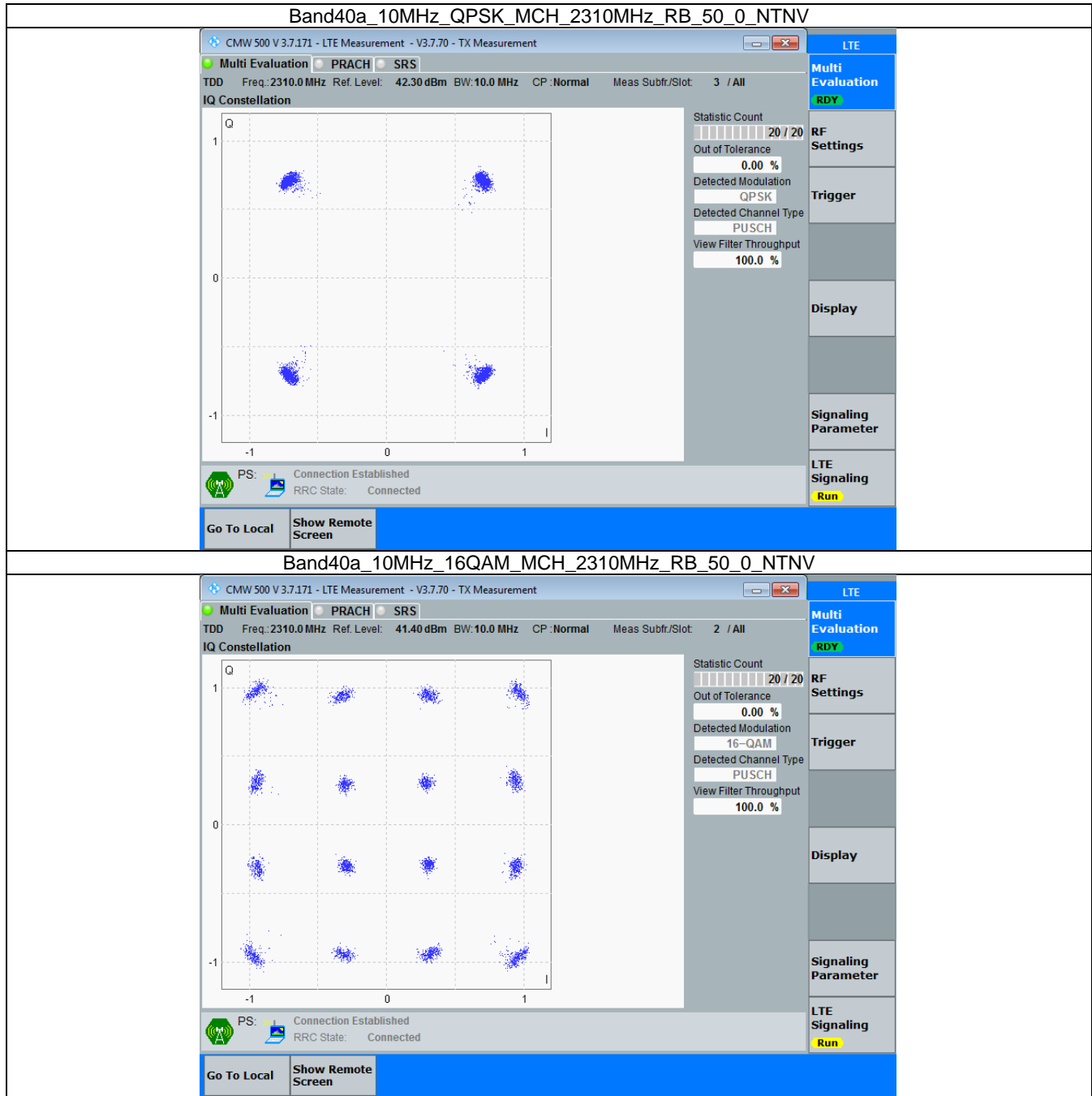
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3.2.2 Test Graph

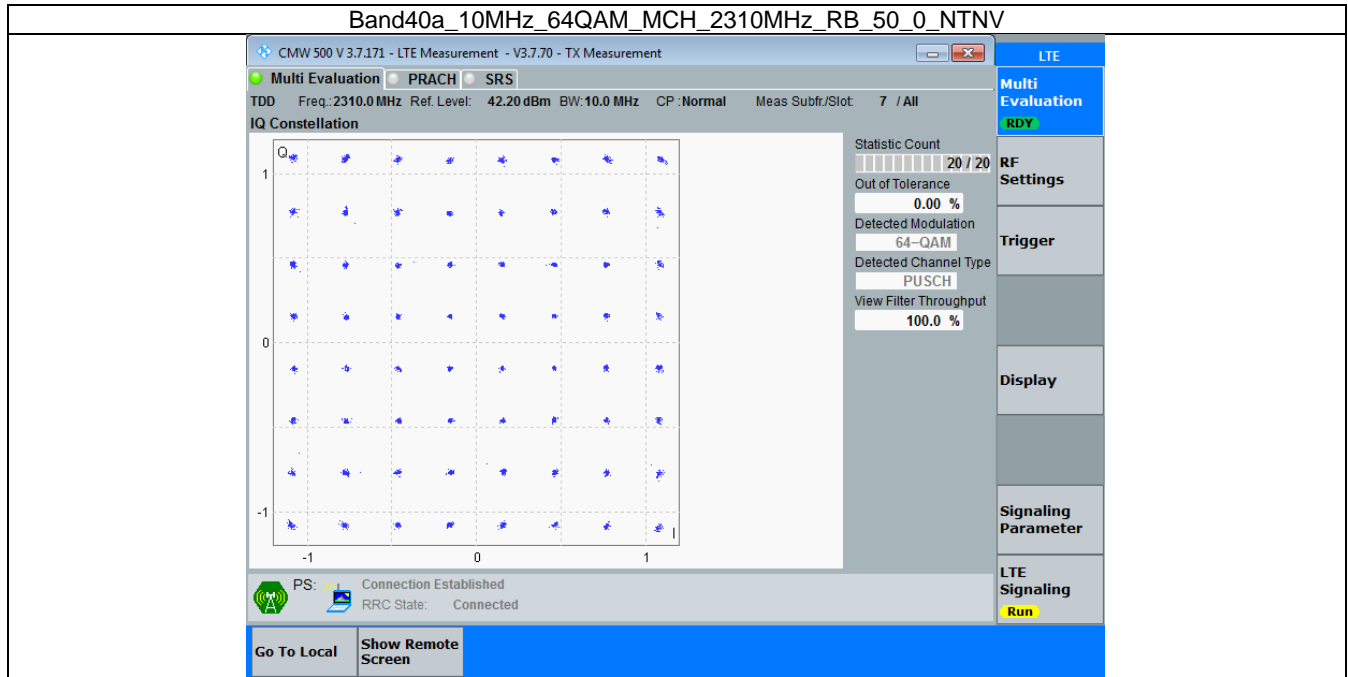


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4. 99% & 26dB Bandwidth

4.1 Band40a_OBW

4.1.1 Test Result

Band: 40a / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2307.5	25	0	4.542	Pass
		2310	25	0	4.530	Pass
		2312.5	25	0	4.538	Pass
	16QAM	2307.5	25	0	4.529	Pass
		2310	25	0	4.539	Pass
		2312.5	25	0	4.578	Pass
	64QAM	2307.5	25	0	4.526	Pass
		2310	25	0	4.548	Pass
		2312.5	25	0	4.558	Pass
10	QPSK	2310	50	0	9.050	Pass
		2310	50	0	9.006	Pass
		2310	50	0	9.055	Pass
	16QAM	2310	50	0	9.020	Pass
		2310	50	0	9.006	Pass
		2310	50	0	9.026	Pass
	64QAM	2310	50	0	9.063	Pass
		2310	50	0	9.045	Pass
		2310	50	0	9.018	Pass

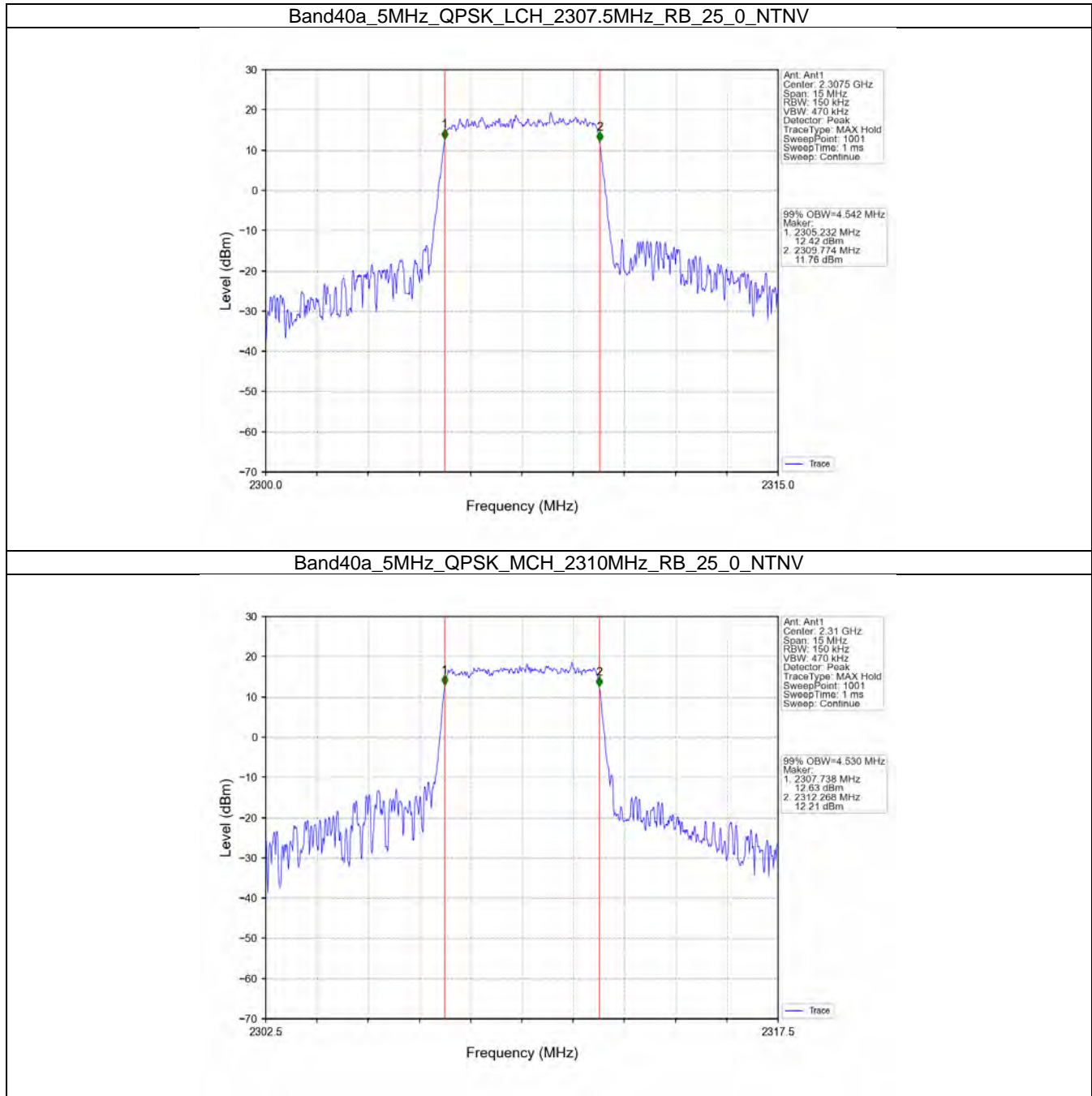


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4.1.2 Test Graph



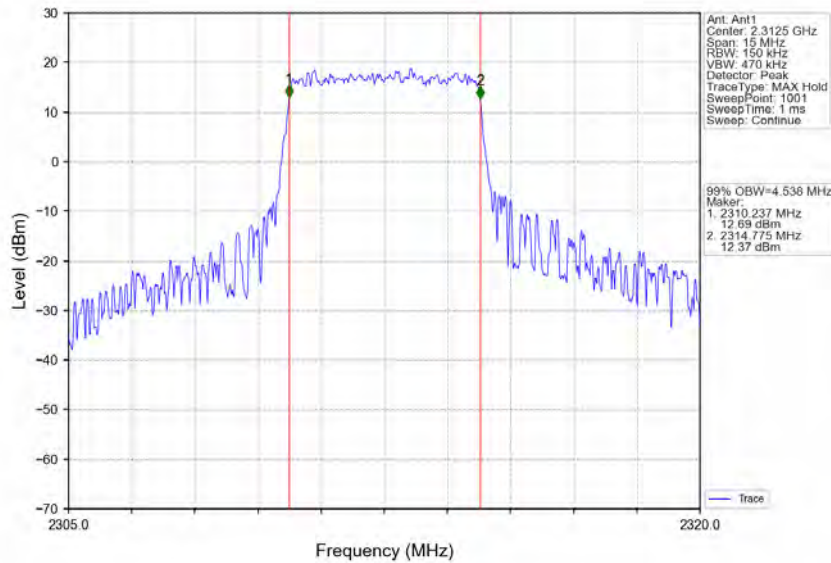
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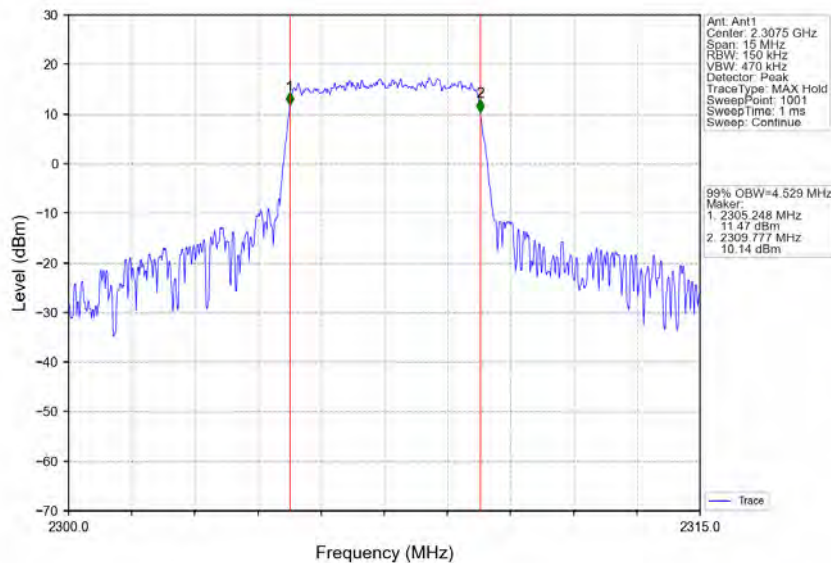
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Band40a_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



Band40a_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



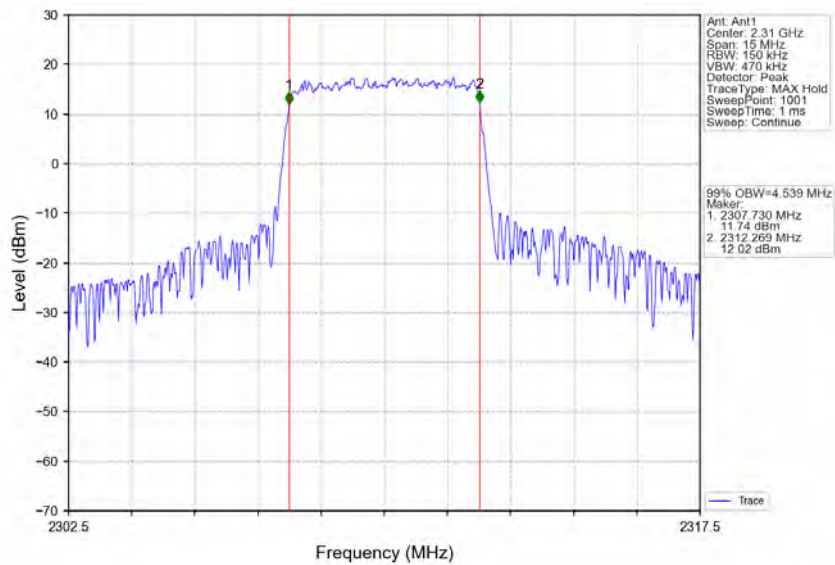
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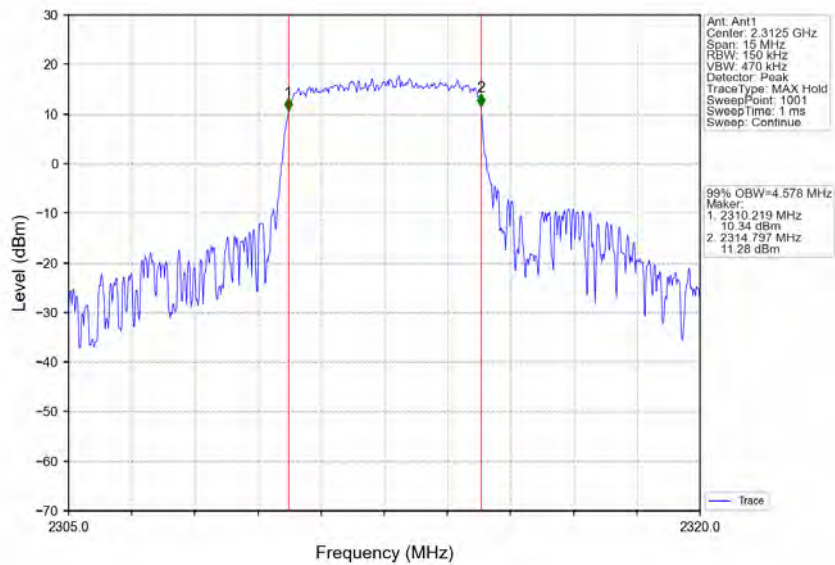
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Band40a_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



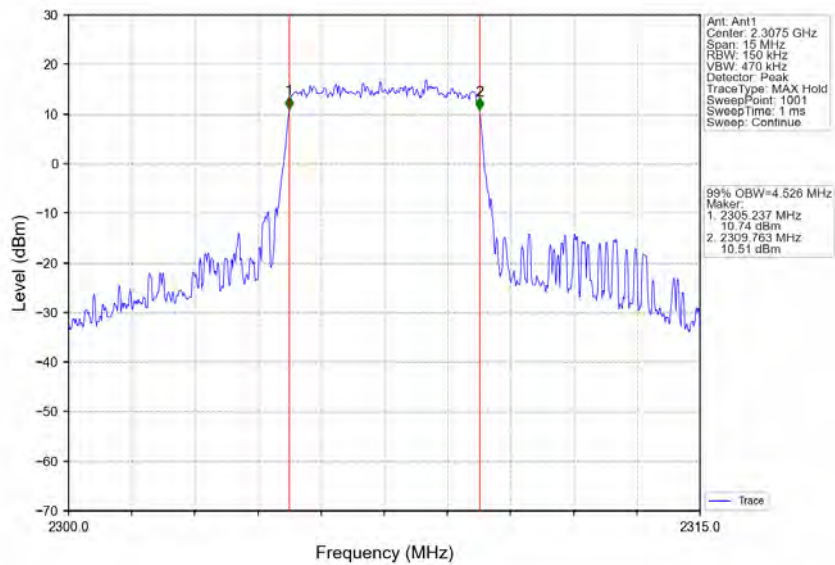
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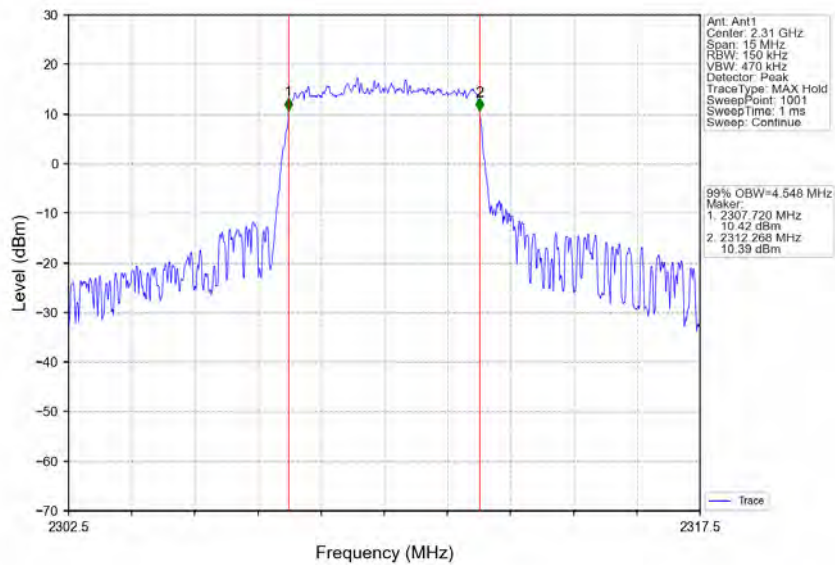
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Band40a_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



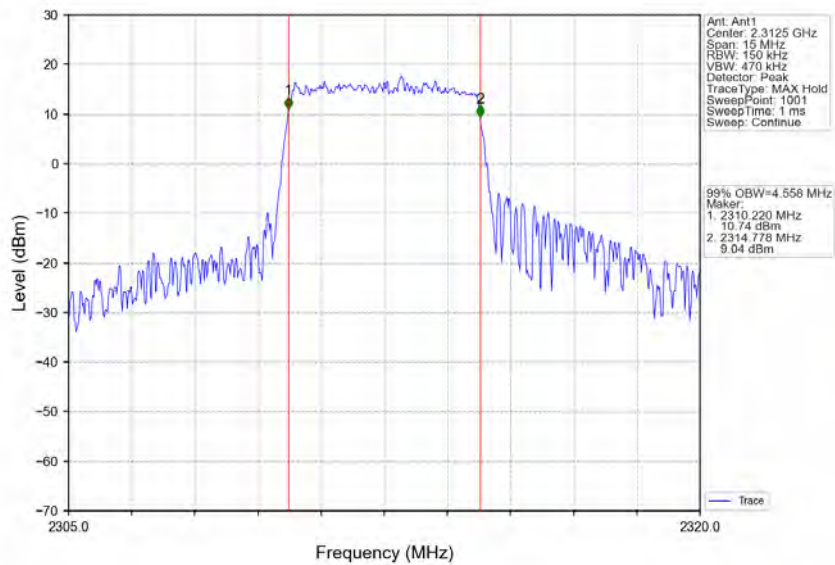
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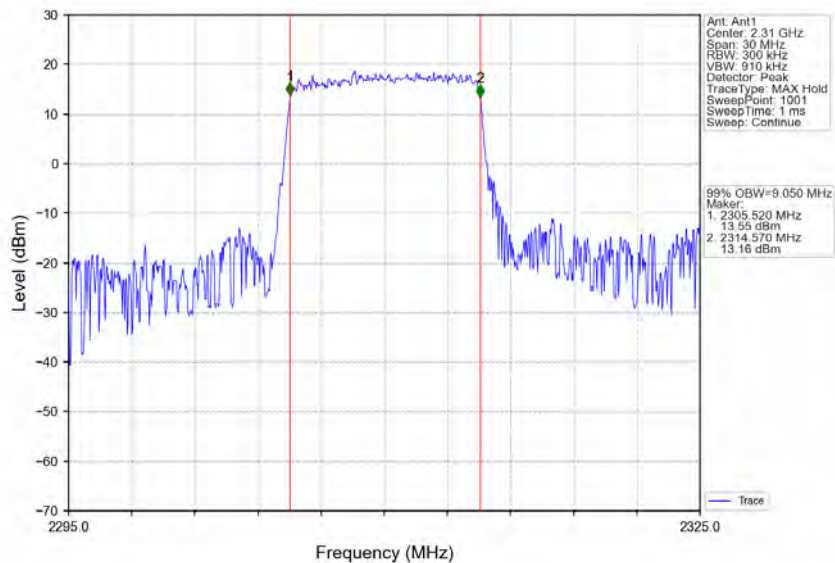
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Band40a_10MHz_QPSK_LCH_2310MHz_RB_50_0_NTNV



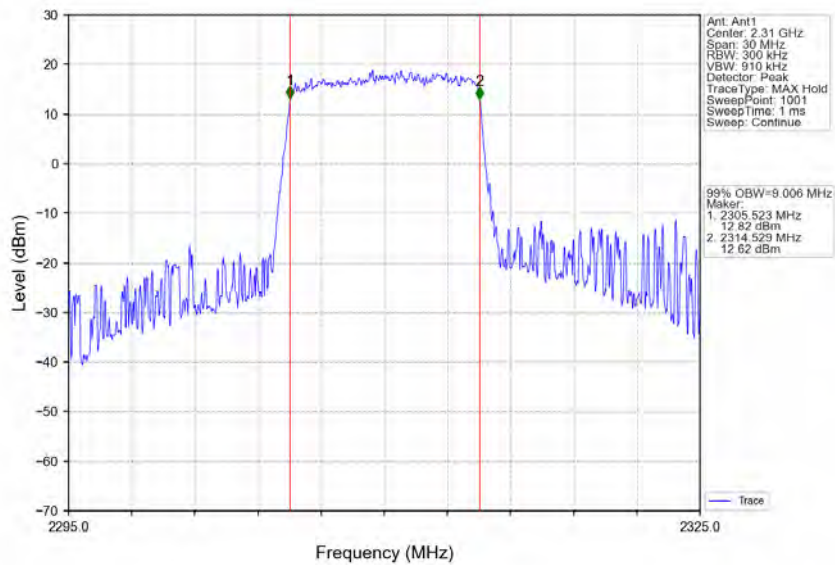
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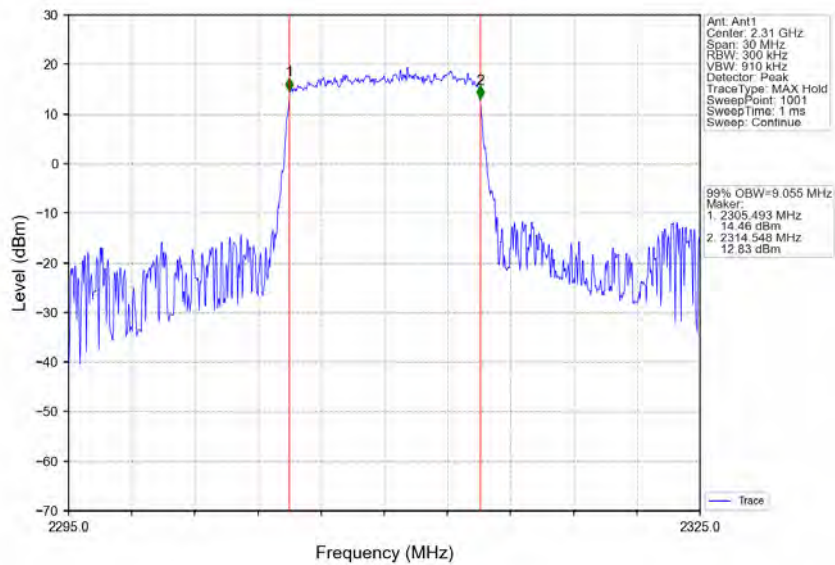
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Band40a_10MHz_QPSK_HCH_2310MHz_RB_50_0_NTNV



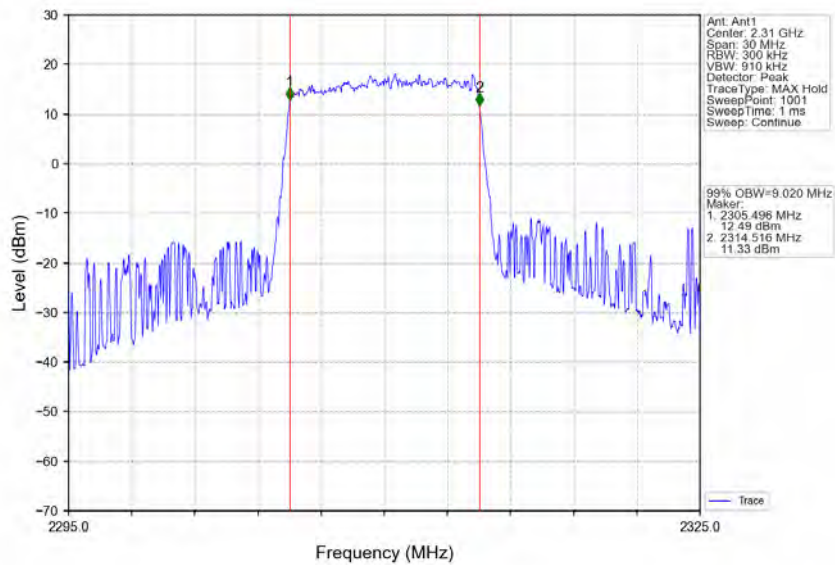
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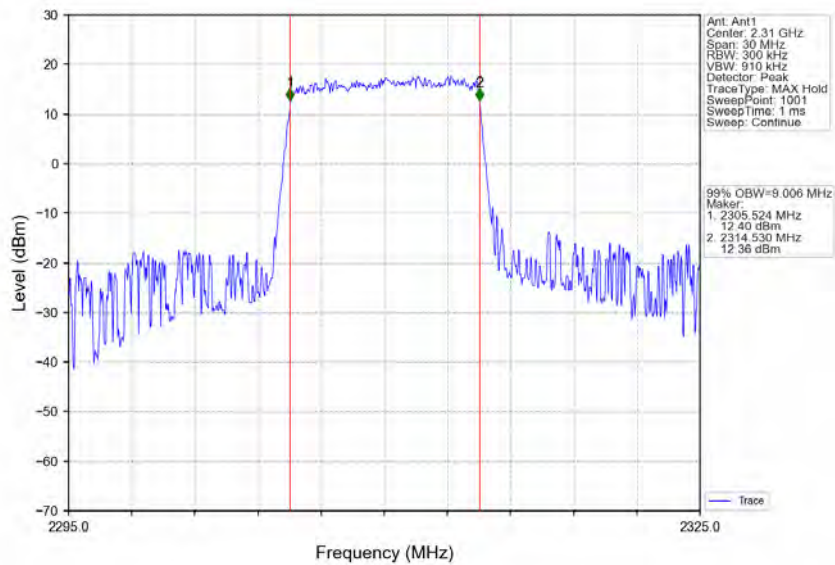
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Band40a_10MHz_16QAM_LCH_2310MHz_RB_50_0_NTNV



Band40a_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



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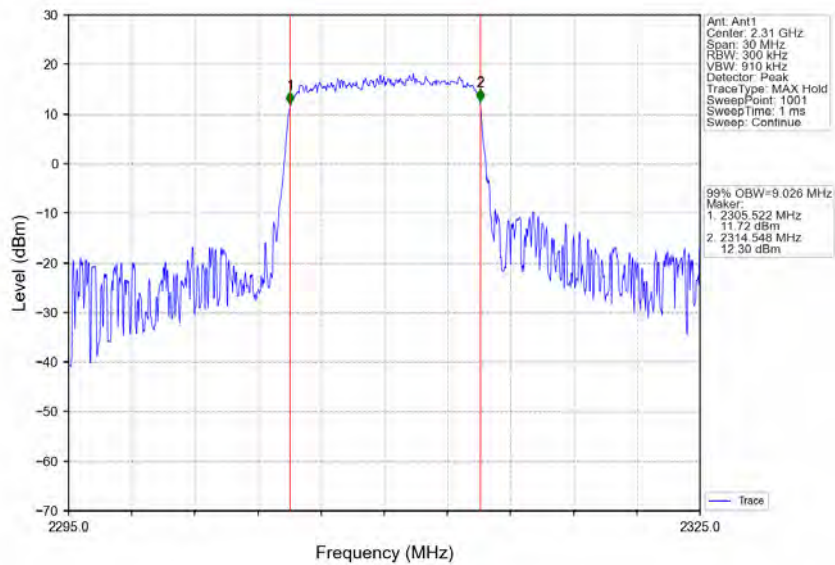
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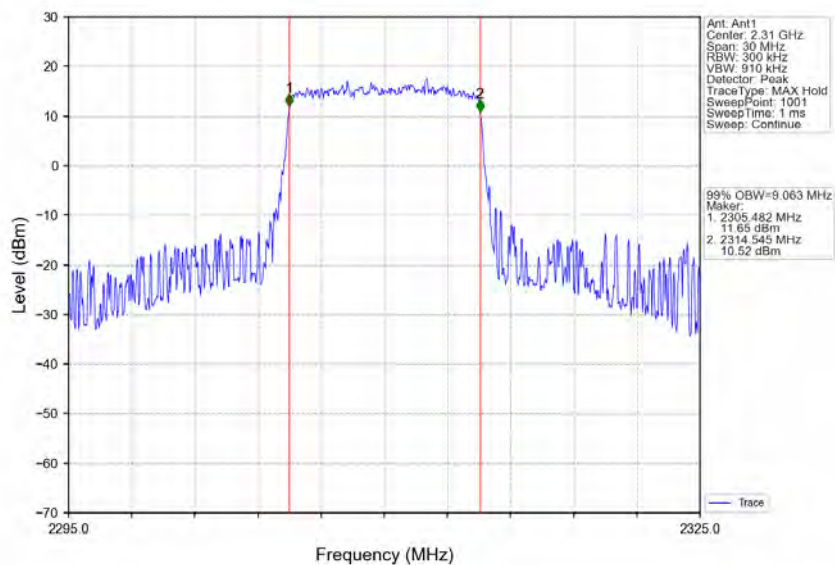
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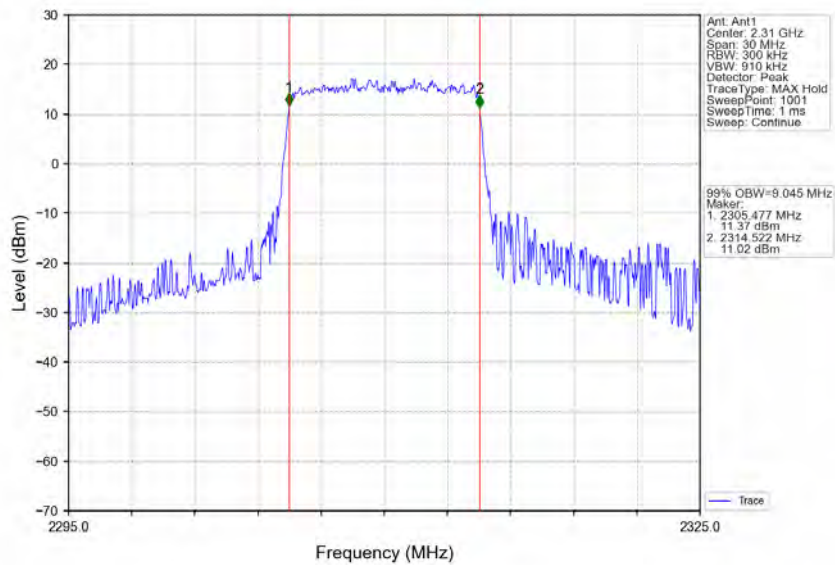
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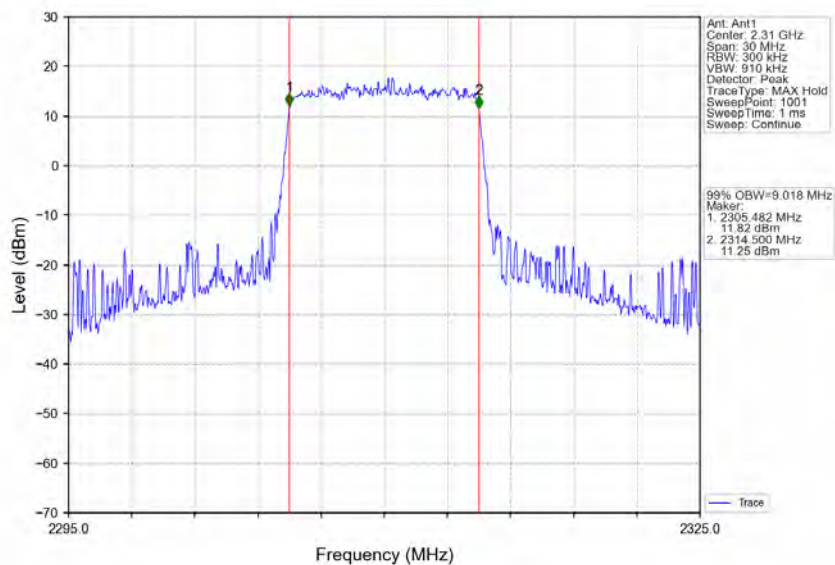
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4.2 Band40a_XDB

4.2.1 Test Result

Band: 40a / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2307.5	25	0	5.052	Pass
		2310	25	0	5.026	Pass
		2312.5	25	0	5.441	Pass
	16QAM	2307.5	25	0	5.082	Pass
		2310	25	0	5.059	Pass
		2312.5	25	0	5.593	Pass
	64QAM	2307.5	25	0	5.139	Pass
		2310	25	0	5.332	Pass
		2312.5	25	0	5.834	Pass
10	QPSK	2310	50	0	10.312	Pass
		2310	50	0	10.064	Pass
		2310	50	0	10.107	Pass
	16QAM	2310	50	0	10.037	Pass
		2310	50	0	10.012	Pass
		2310	50	0	9.991	Pass
	64QAM	2310	50	0	10.055	Pass
		2310	50	0	10.126	Pass
		2310	50	0	9.929	Pass



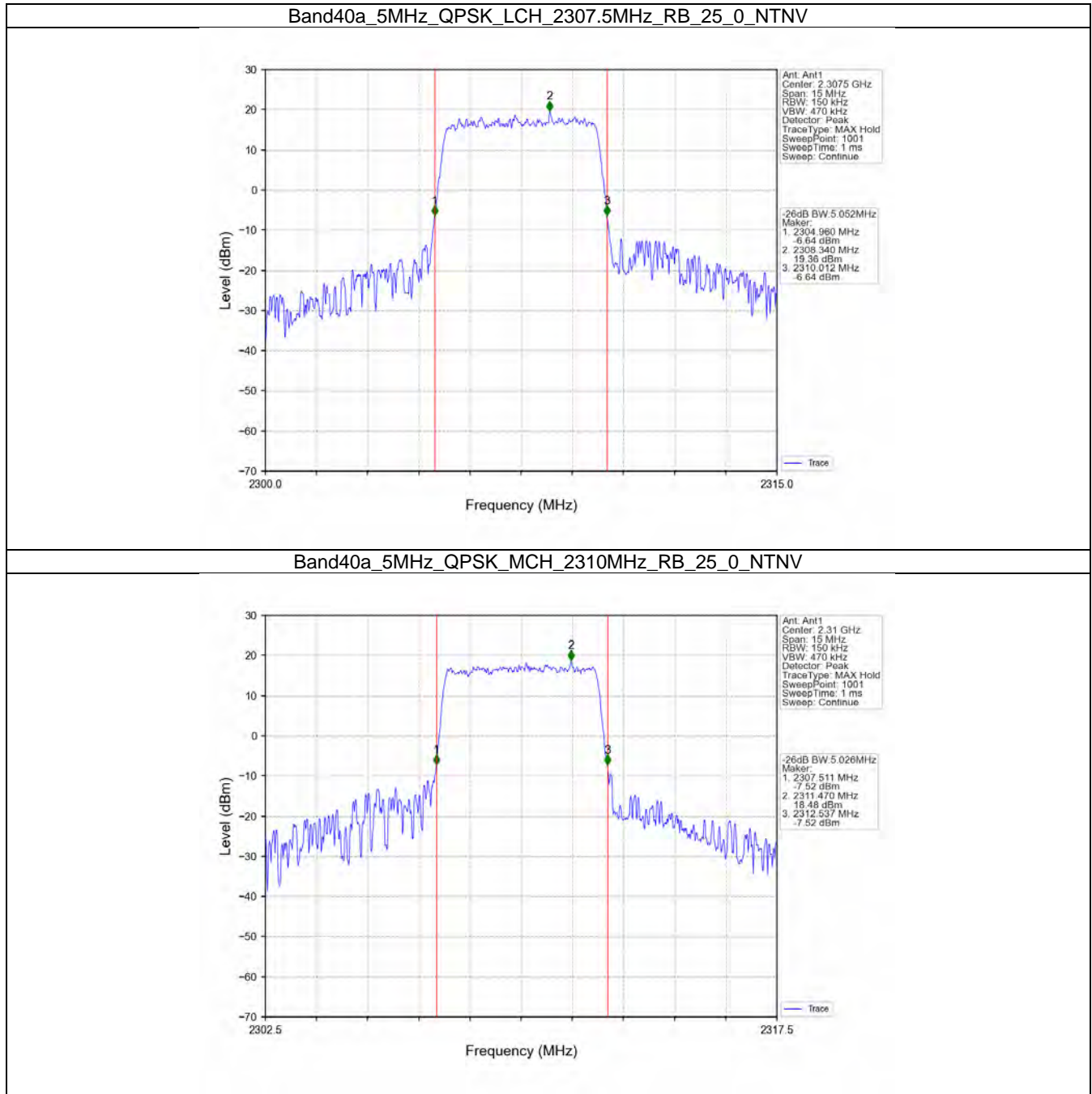
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4.2.2 Test Graph



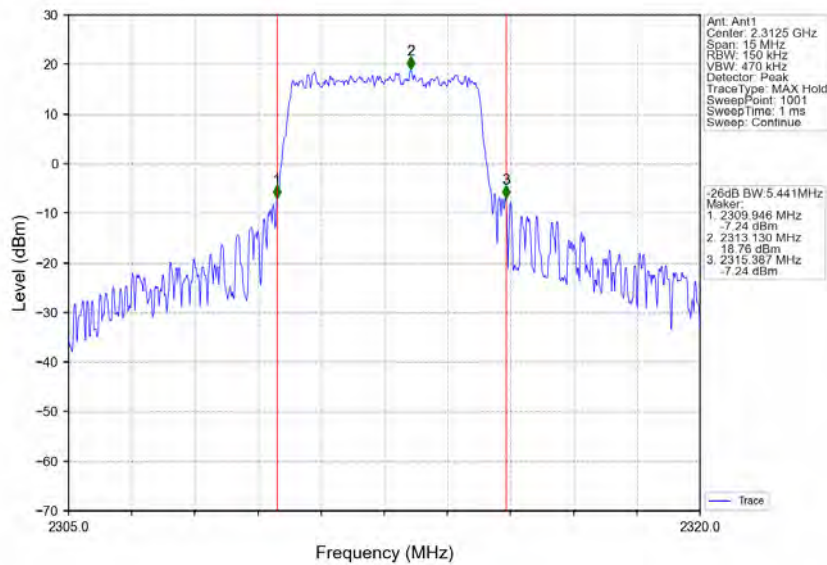
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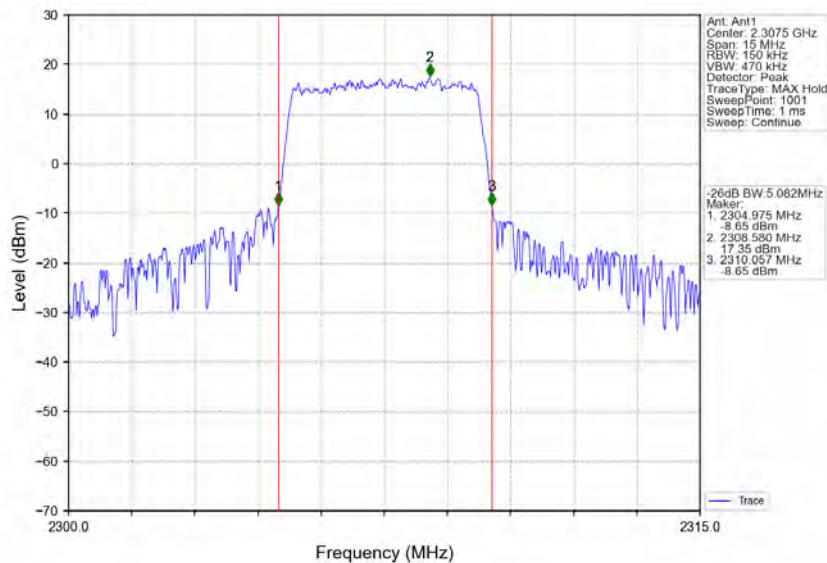
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Band40a_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



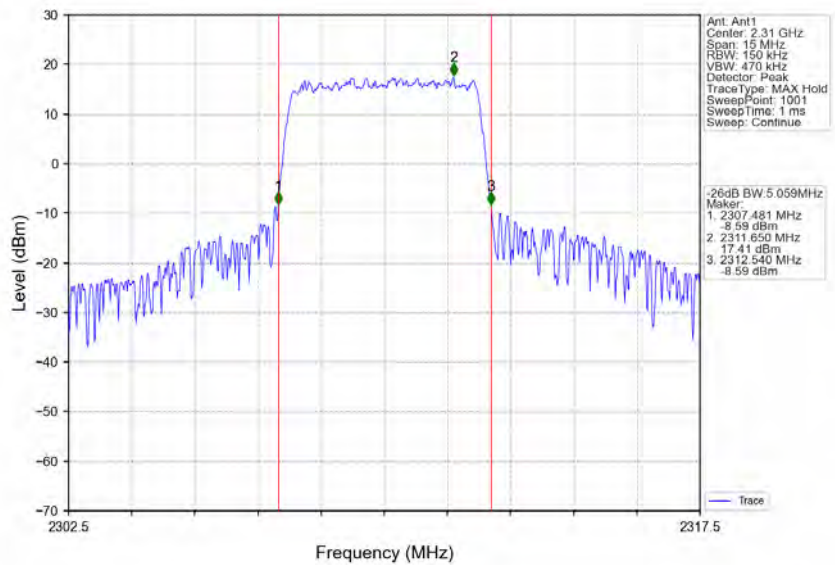
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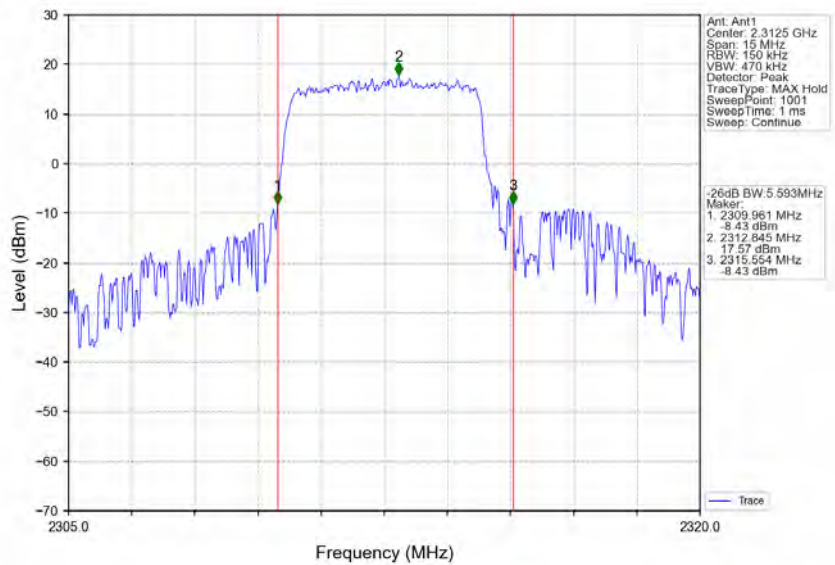
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Band40a_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



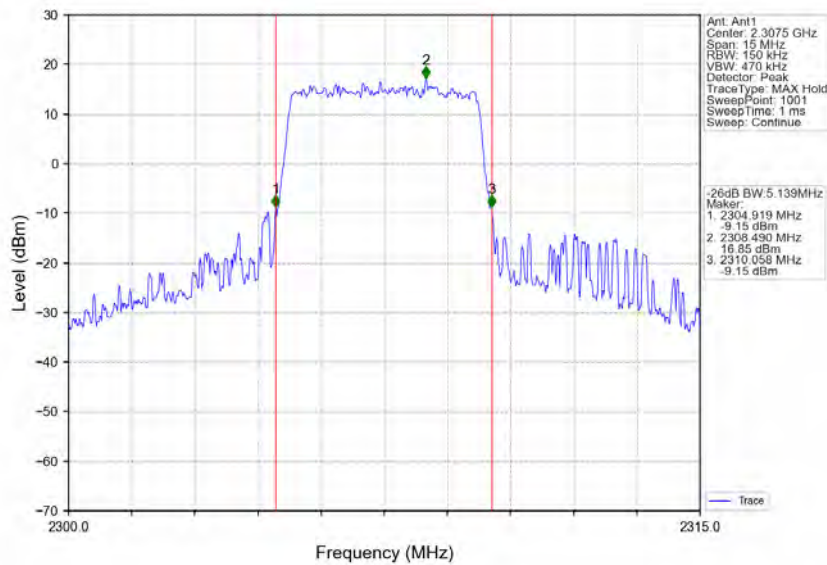
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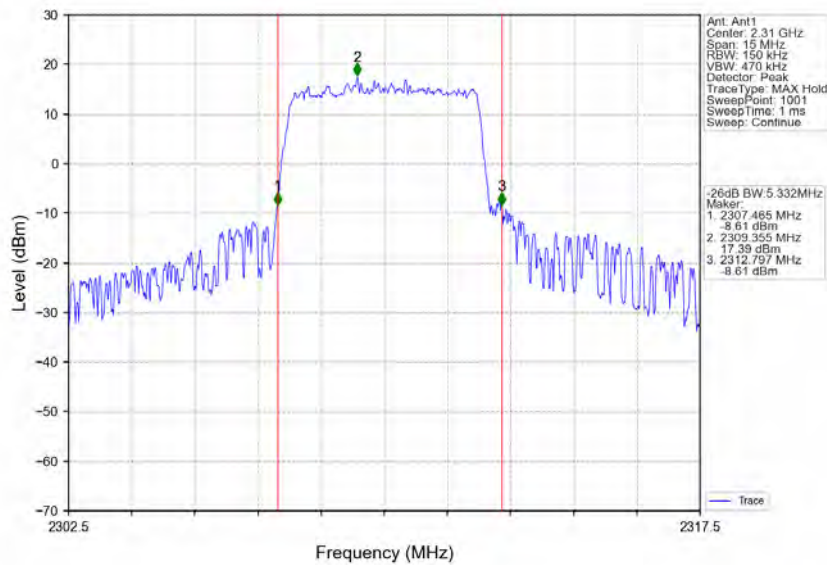
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Band40a_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



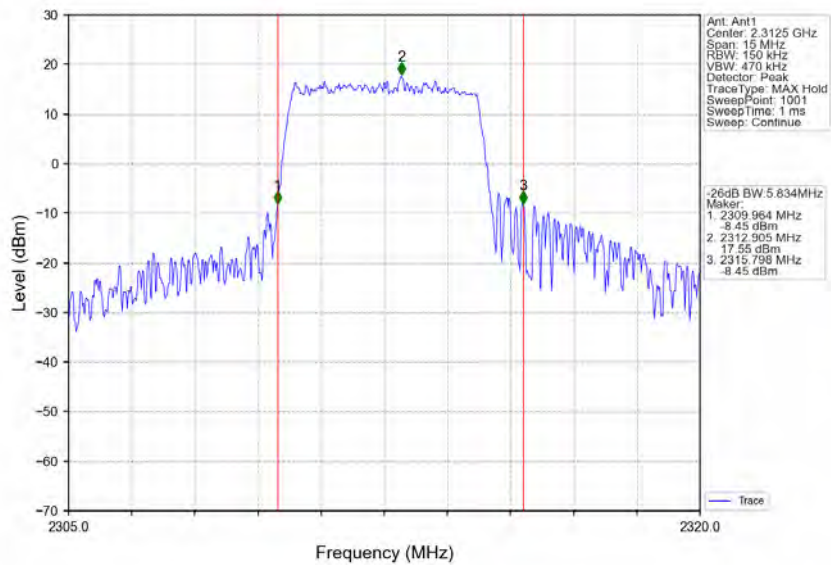
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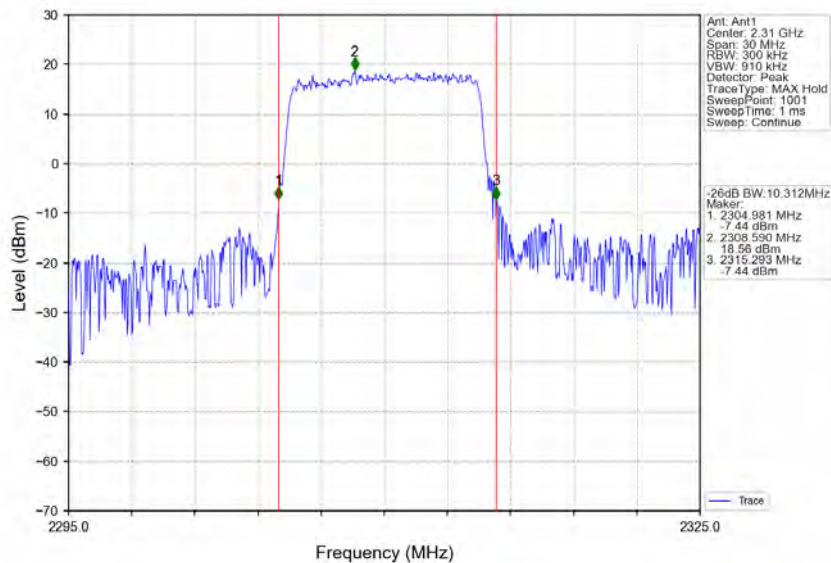
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Band40a_10MHz_QPSK_LCH_2310MHz_RB_50_0_NTNV



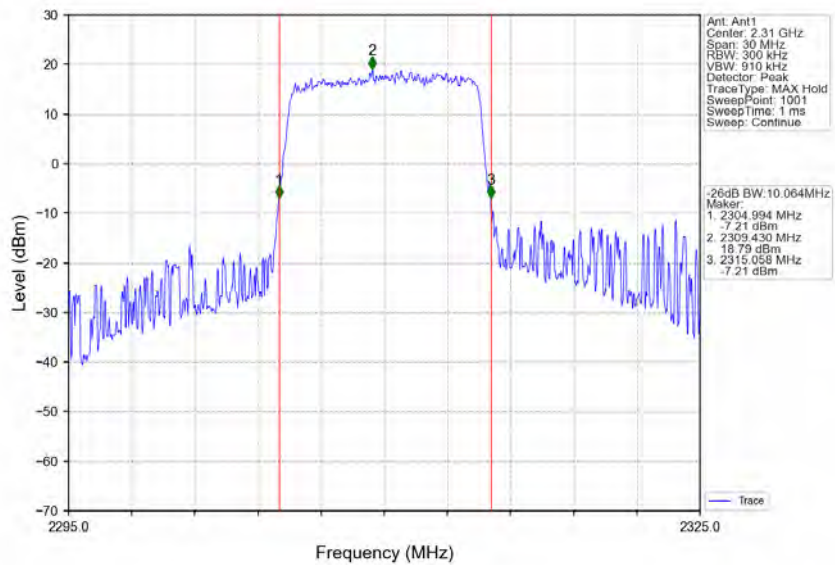
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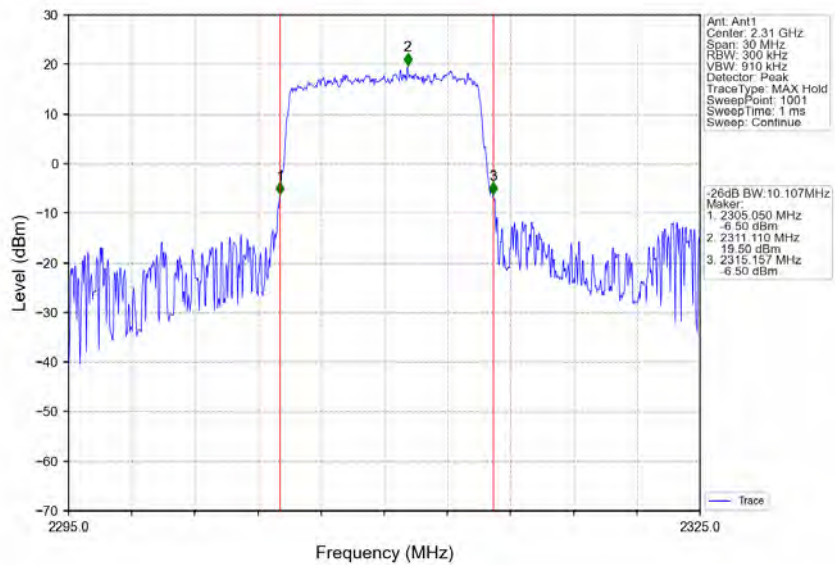
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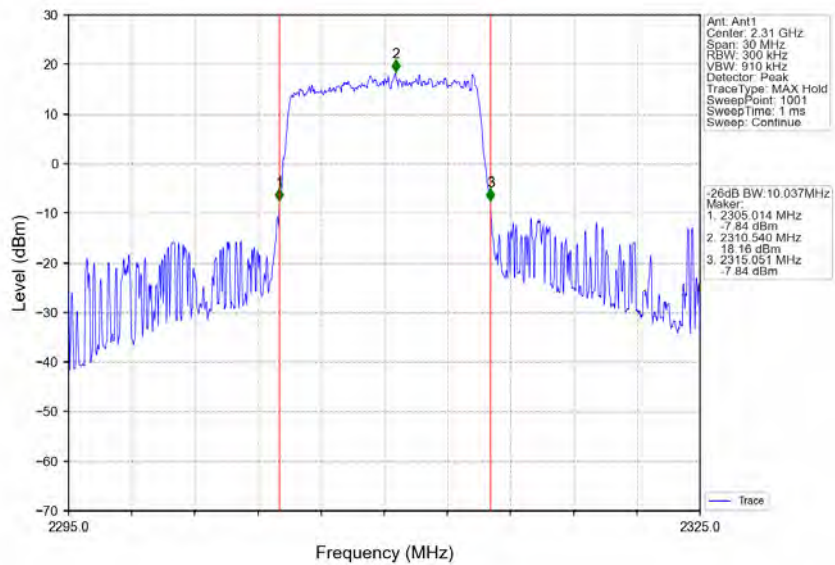
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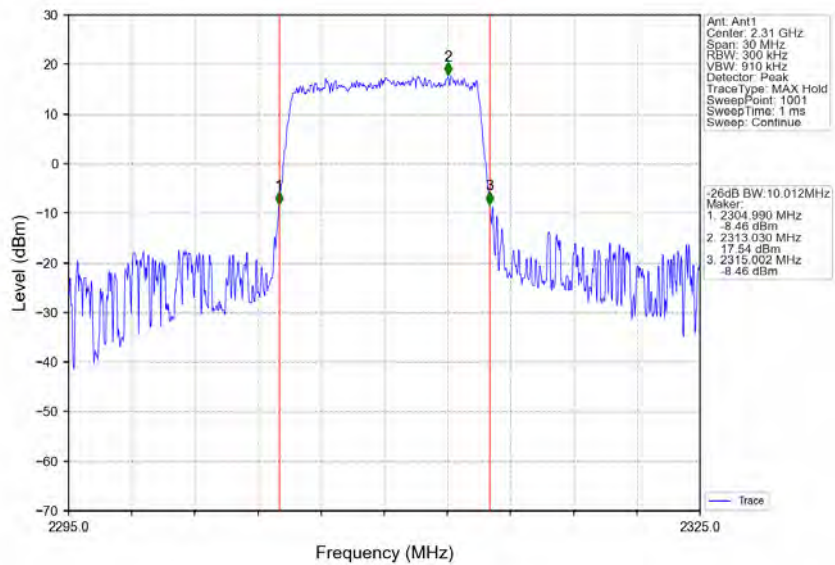
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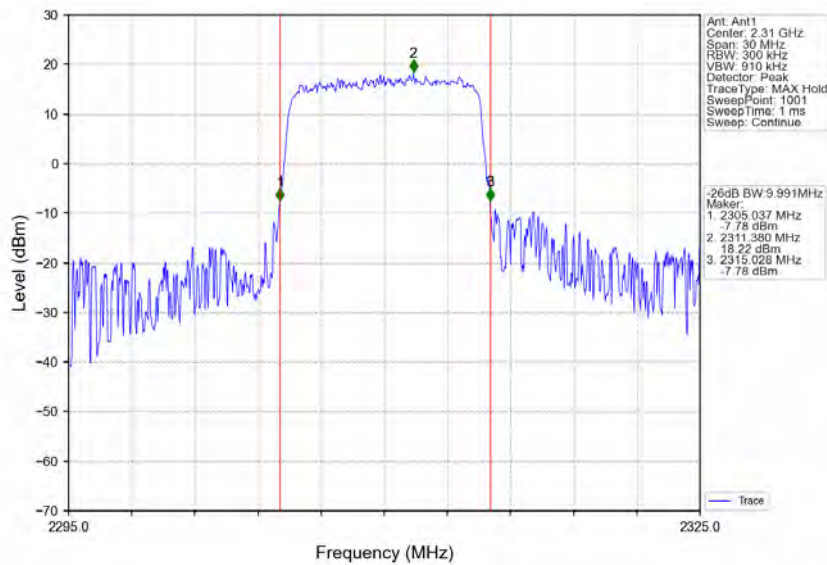
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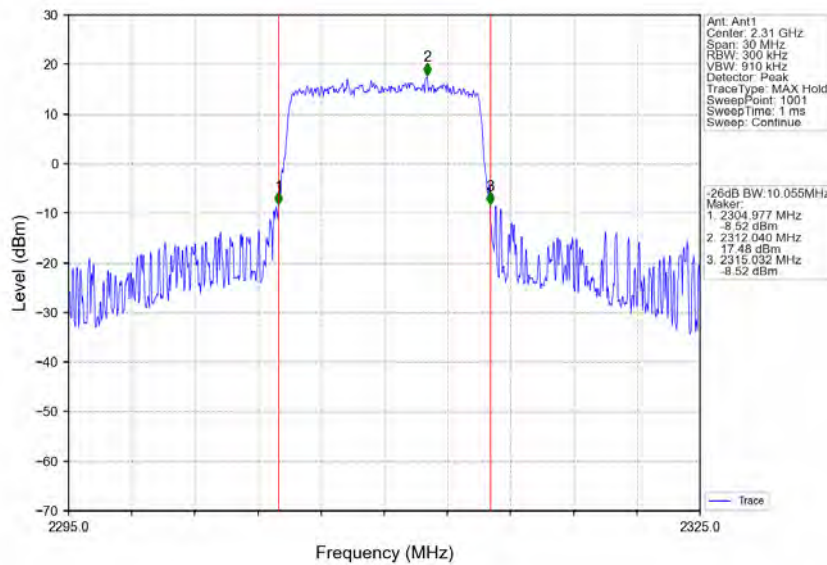
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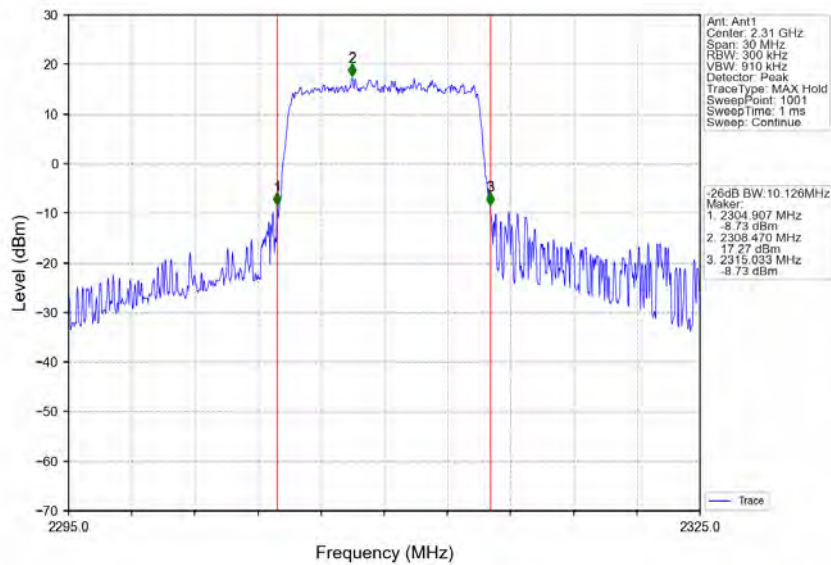
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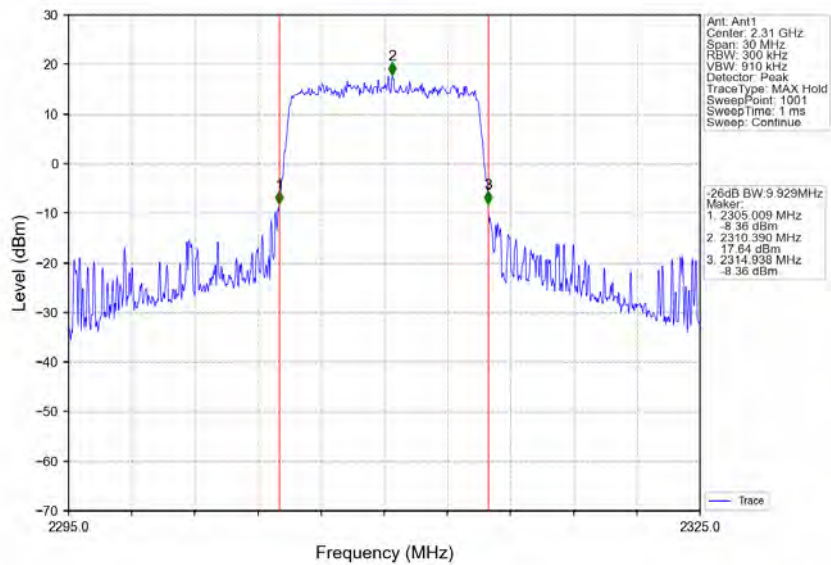
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5. Peak-Average Ratio

5.1 B40a_5MHz

5.1.1 Test Result

Band: 40a / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	25	0	7.05	<=13	Pass
	2310	25	0	7.05	<=13	Pass
	2312.5	25	0	7.05	<=13	Pass
16QAM	2307.5	25	0	7.87	<=13	Pass
	2310	25	0	7.91	<=13	Pass
	2312.5	25	0	7.83	<=13	Pass
64QAM	2307.5	25	0	8.72	<=13	Pass
	2310	25	0	8.69	<=13	Pass
	2312.5	25	0	8.76	<=13	Pass



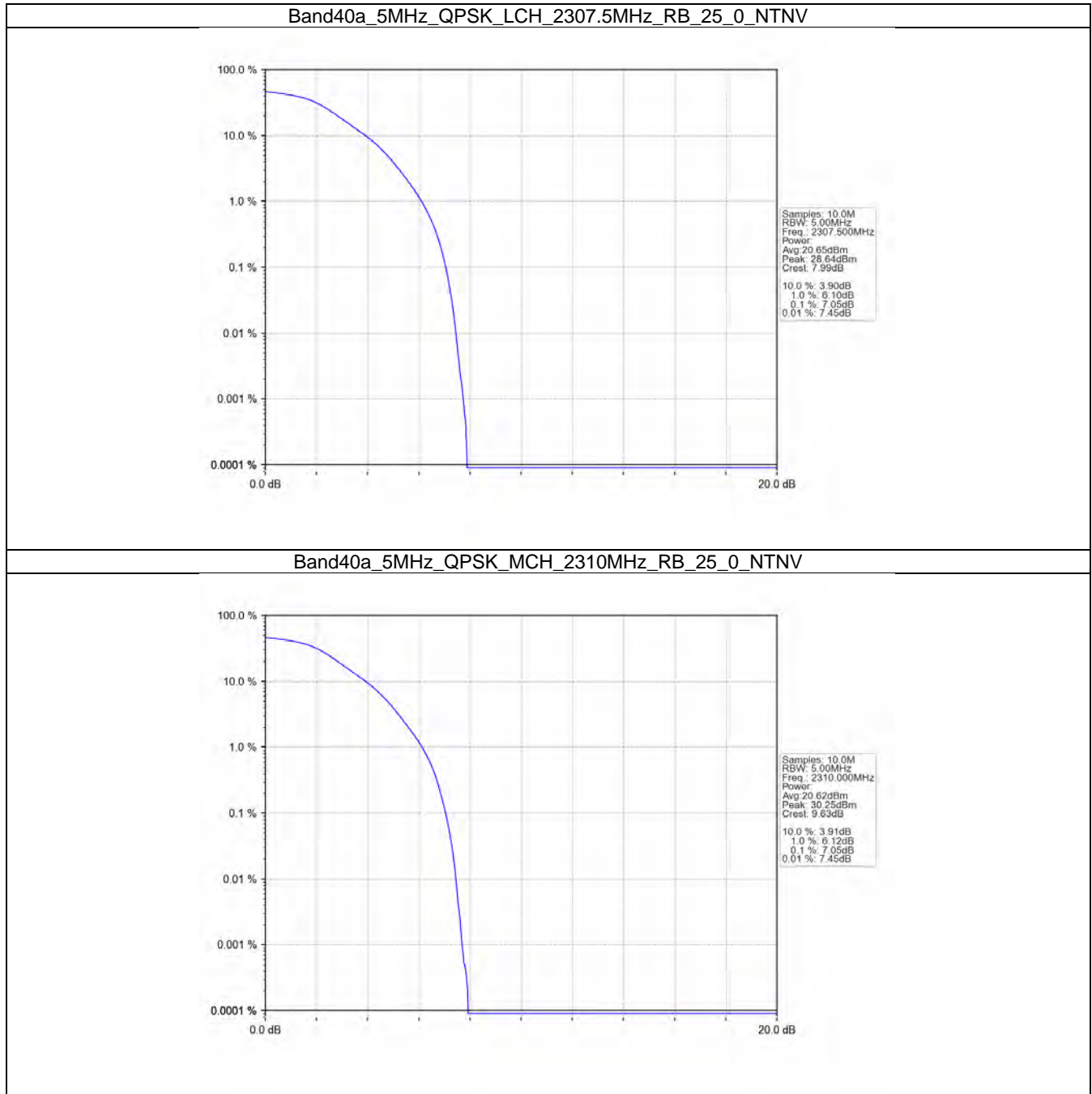
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5.1.2 Test Graph



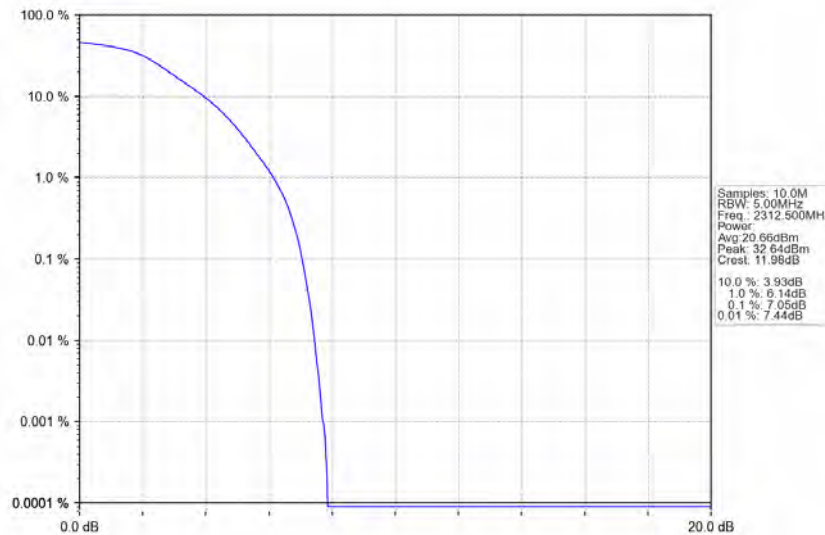
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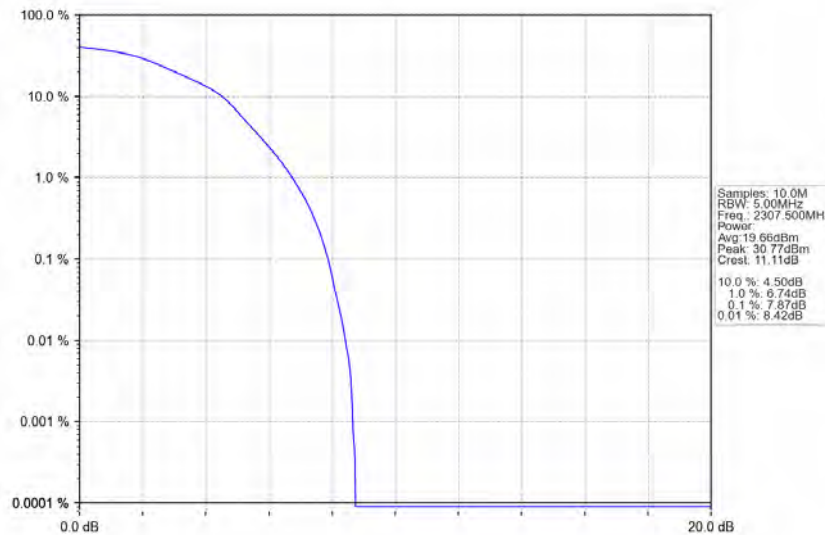
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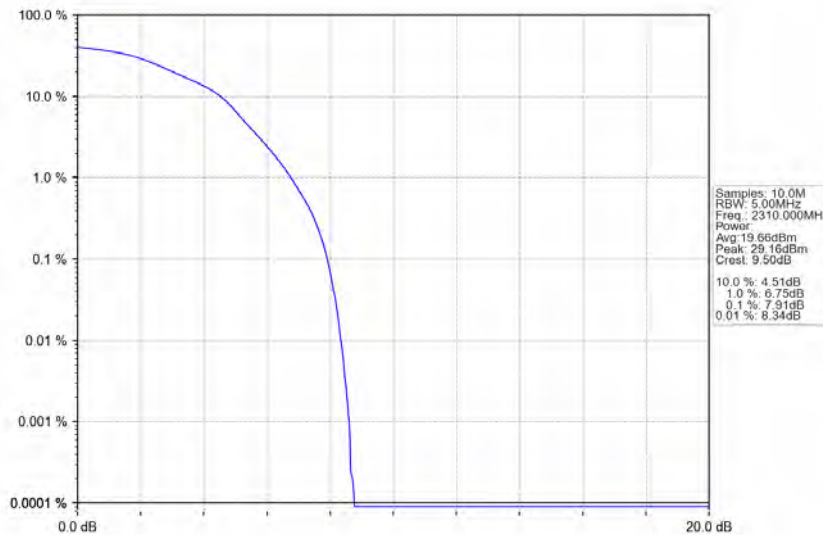


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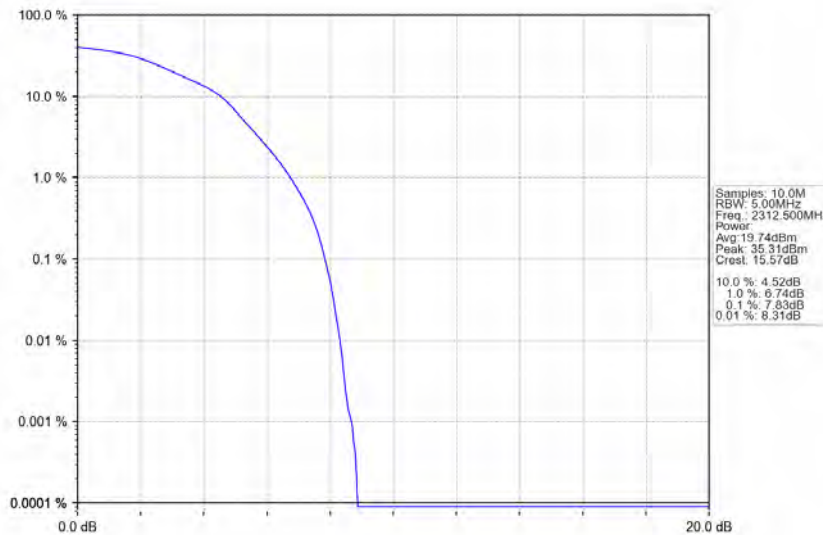
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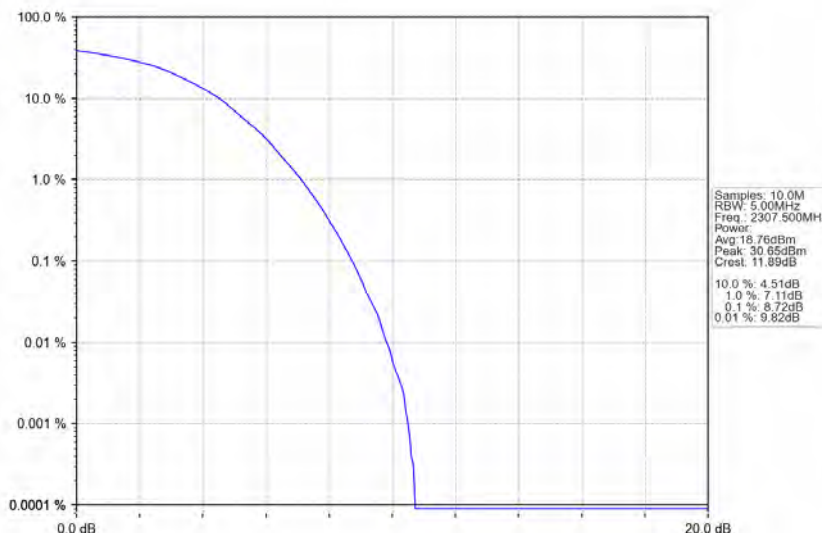
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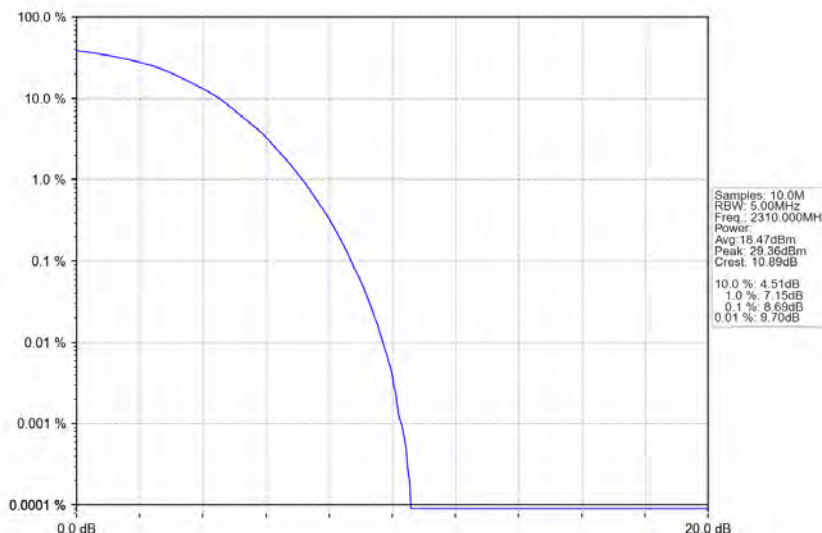
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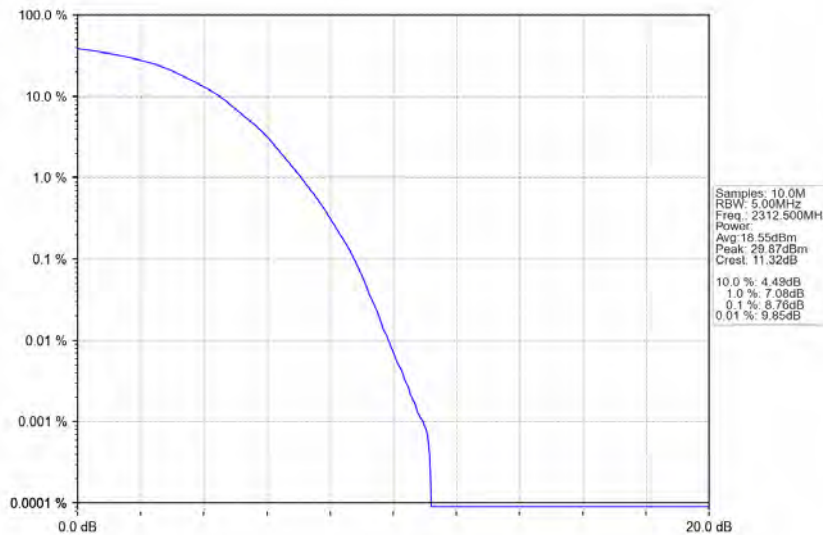
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Band40a_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV



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5.2 B40a_10MHz

5.2.1 Test Result

Band: 40a / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	7.45	<=13	Pass
	2310	50	0	7.42	<=13	Pass
	2310	50	0	7.48	<=13	Pass
16QAM	2310	50	0	8.47	<=13	Pass
	2310	50	0	8.58	<=13	Pass
	2310	50	0	8.56	<=13	Pass
64QAM	2310	50	0	8.74	<=13	Pass
	2310	50	0	8.76	<=13	Pass
	2310	50	0	8.69	<=13	Pass



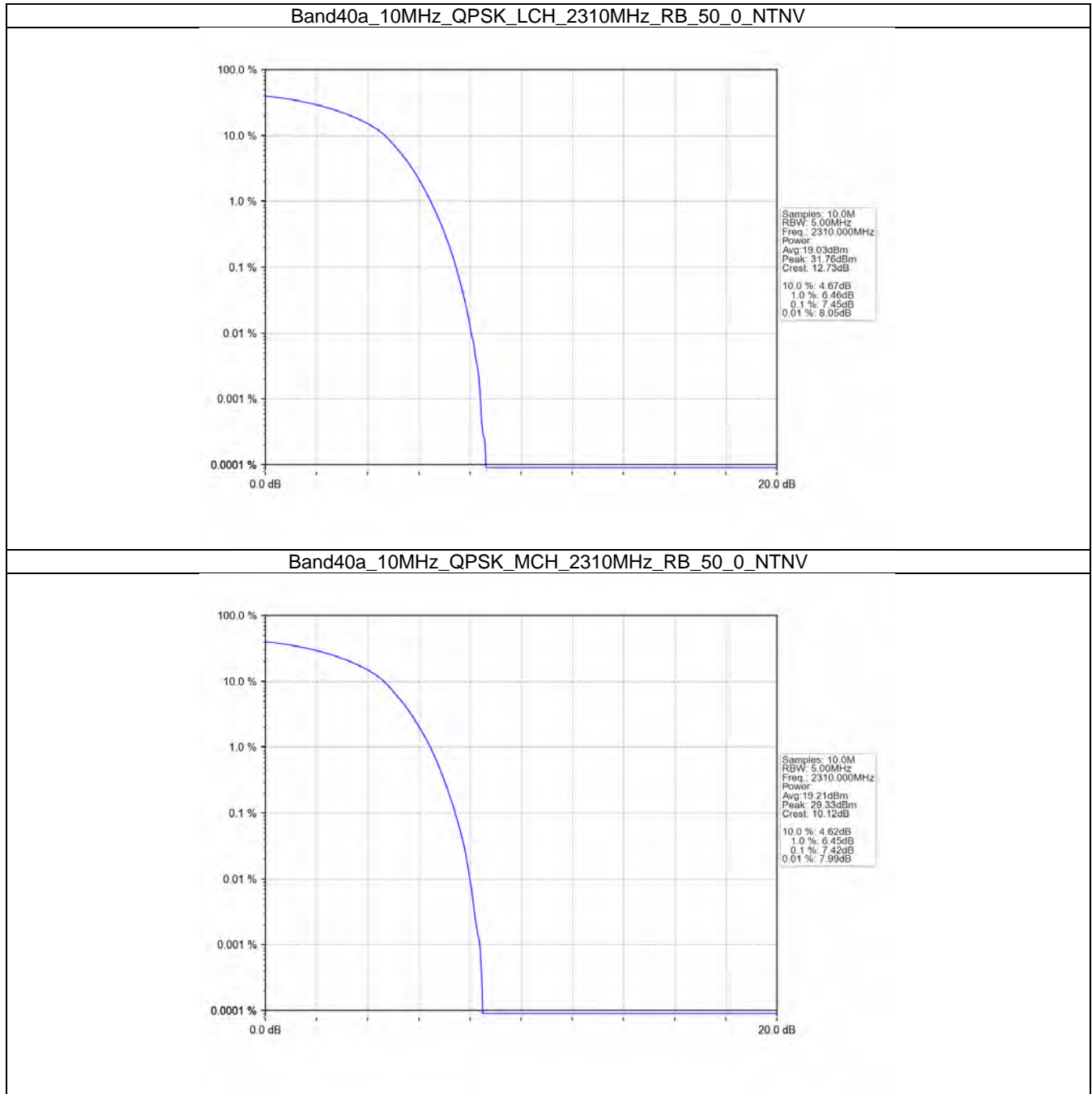
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5.2.2 Test Graph



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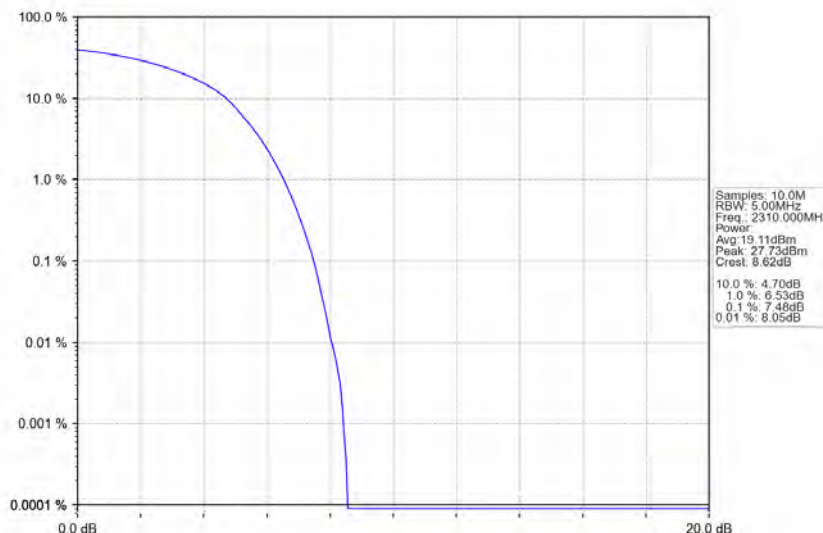
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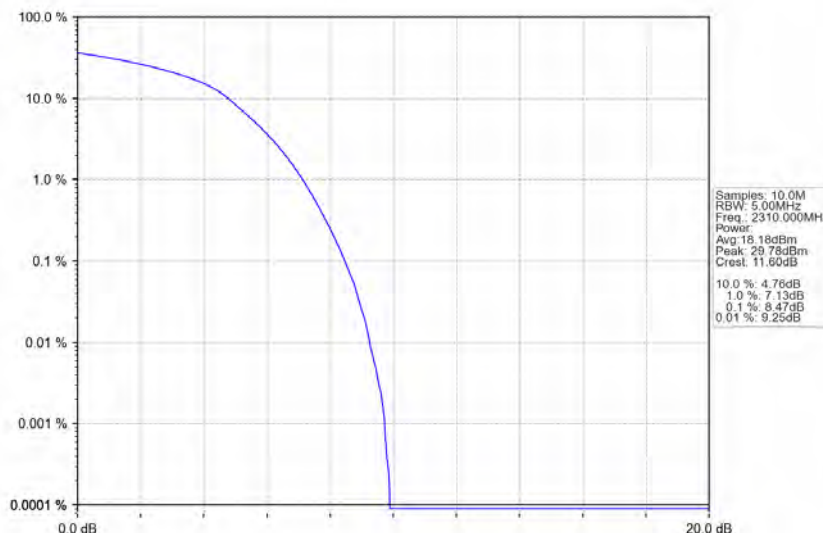
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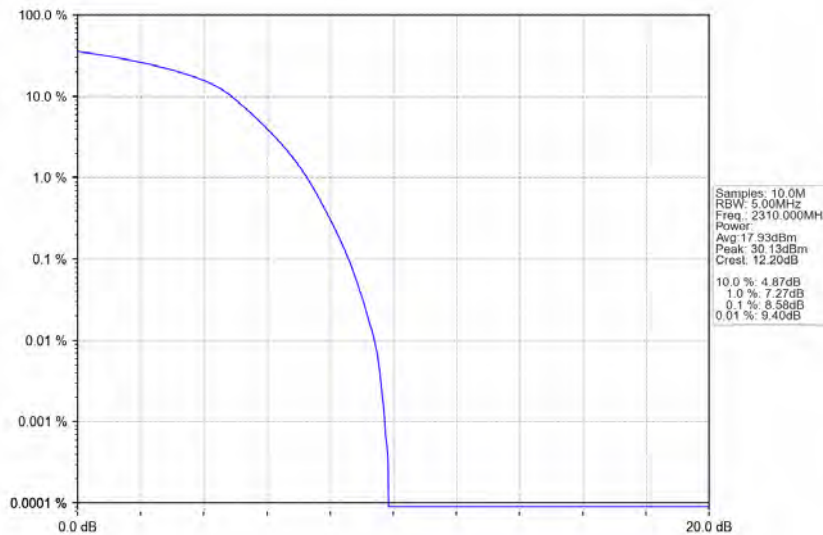
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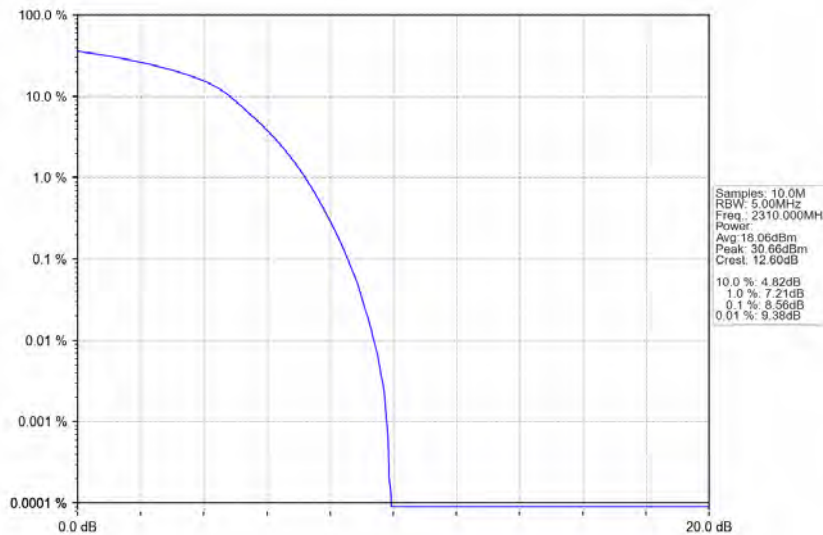
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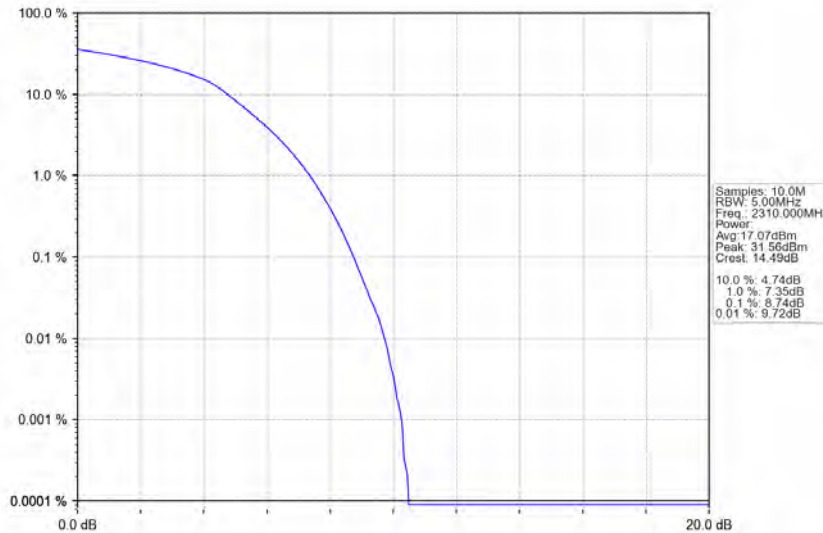
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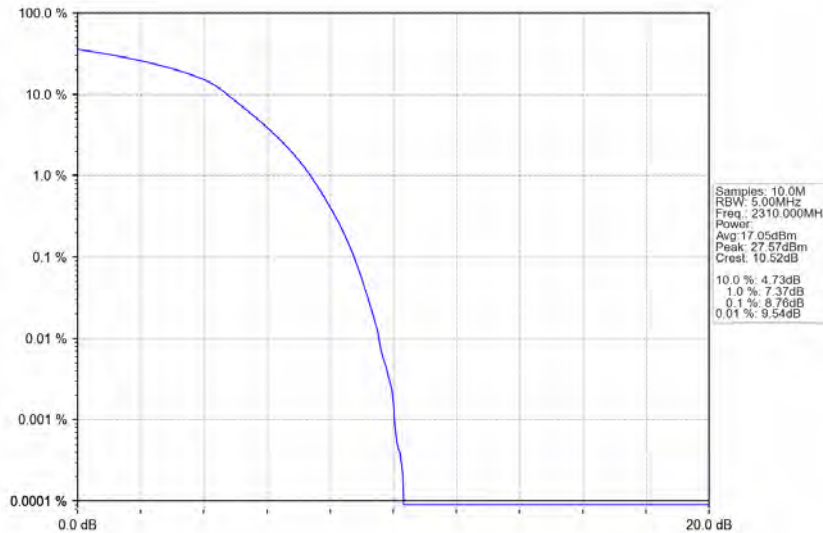
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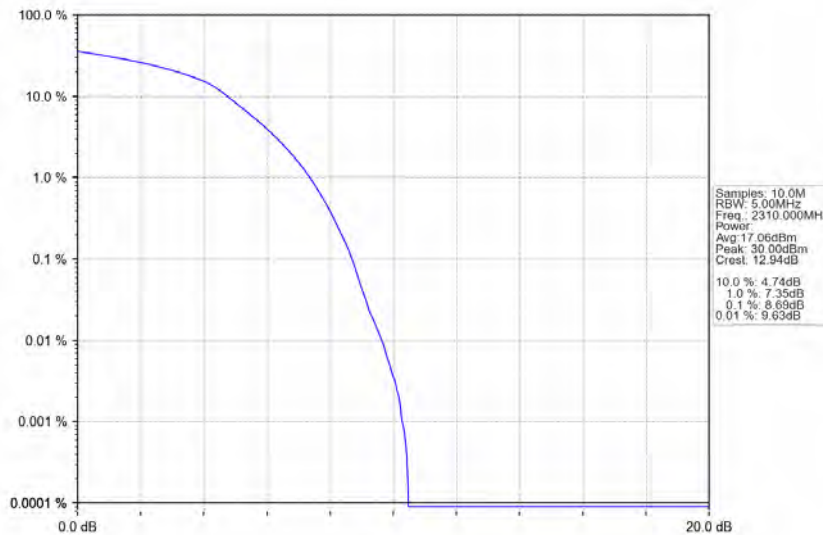
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6. Spurious Emission

6.1 B40a_5MHz

6.1.1 Test Result

Band: 40a / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2312.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2312.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2312.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



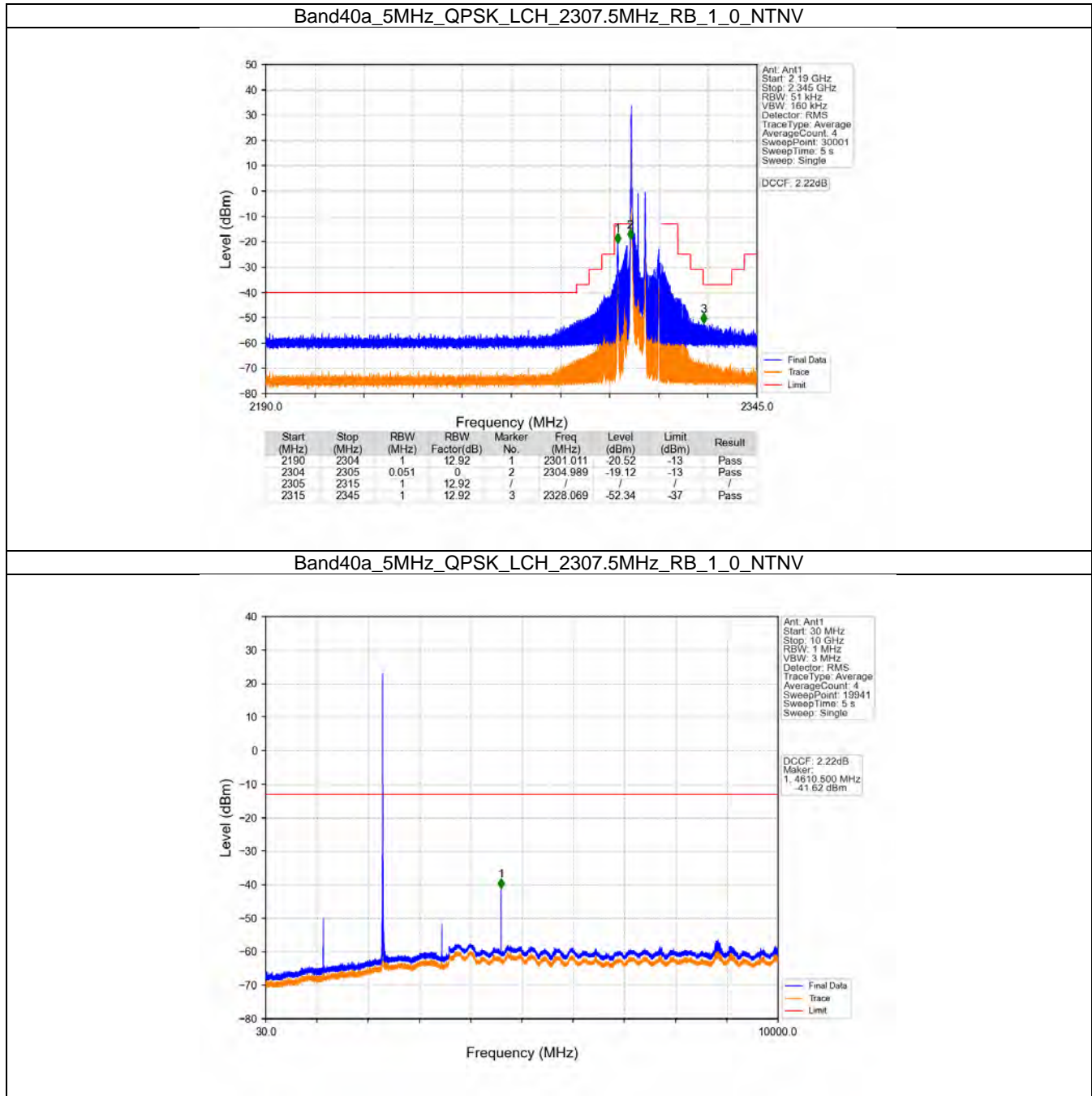
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6.1.2 Test Graph



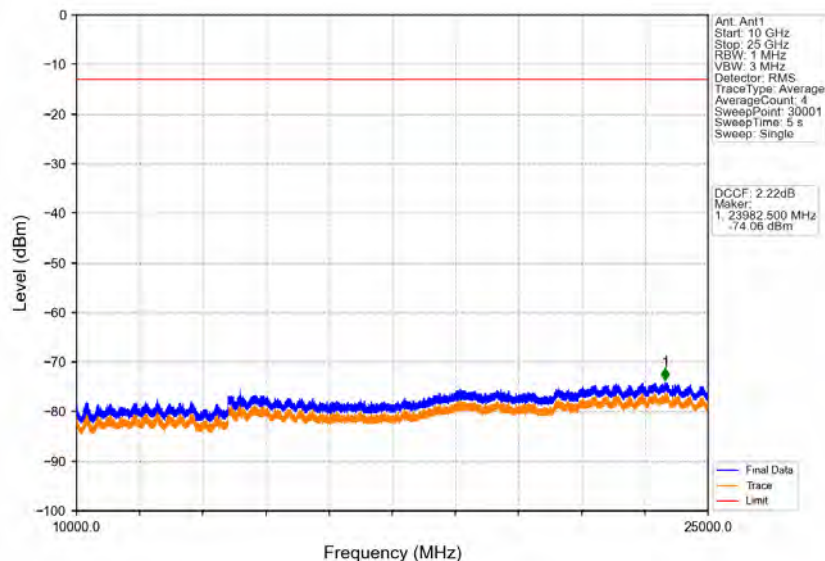
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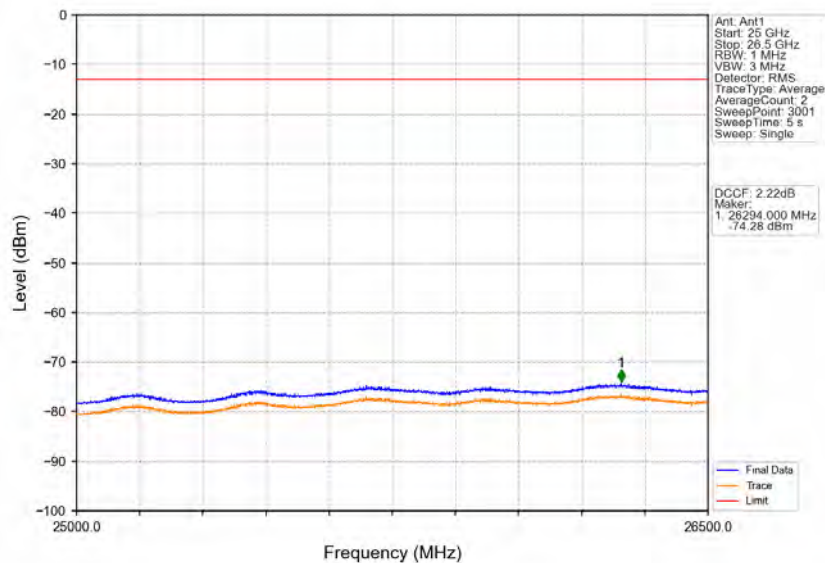
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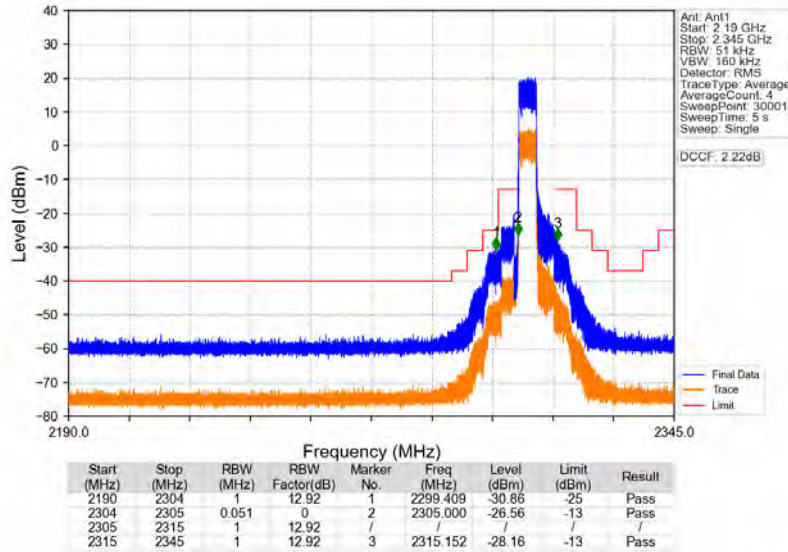
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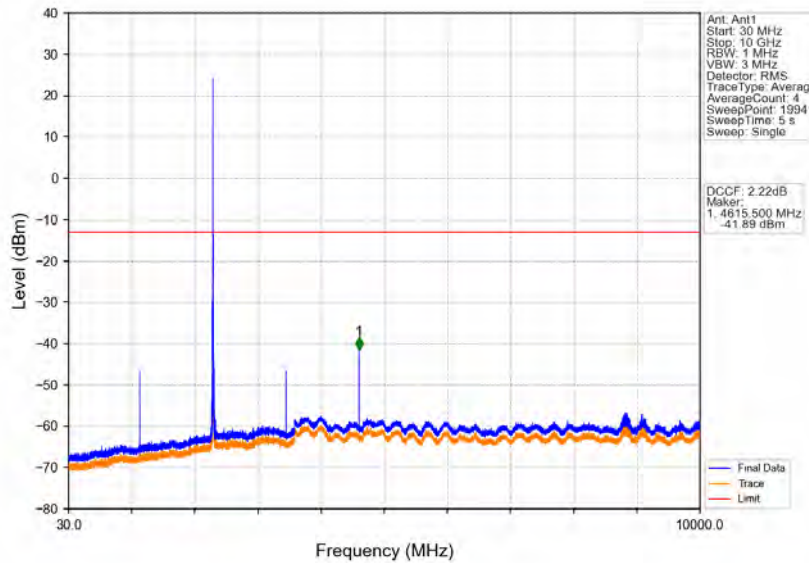
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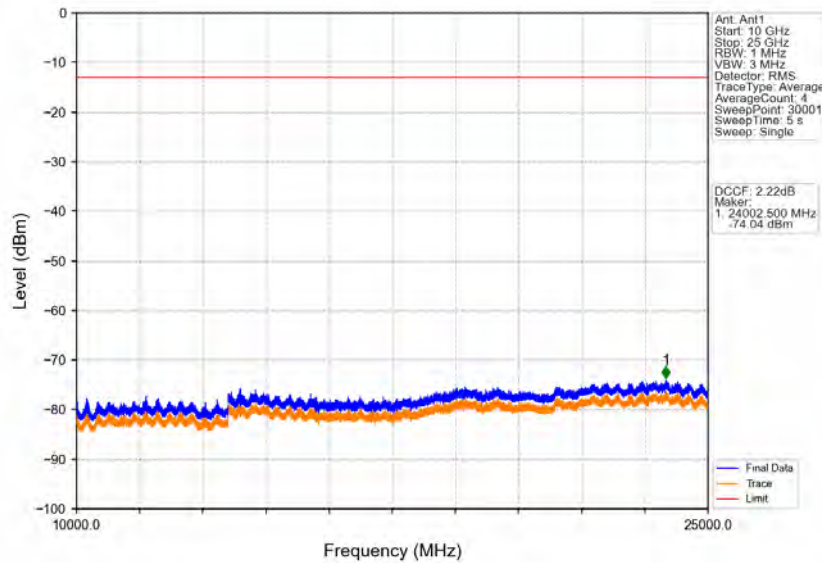
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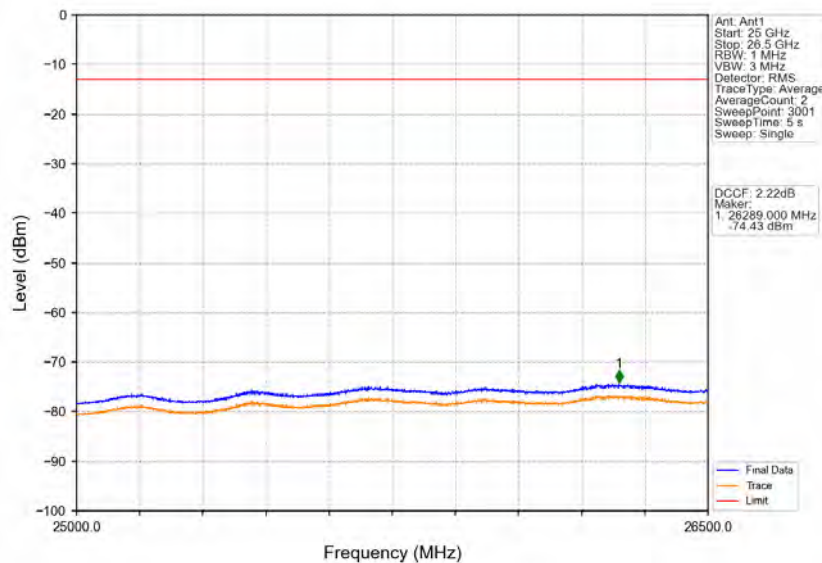


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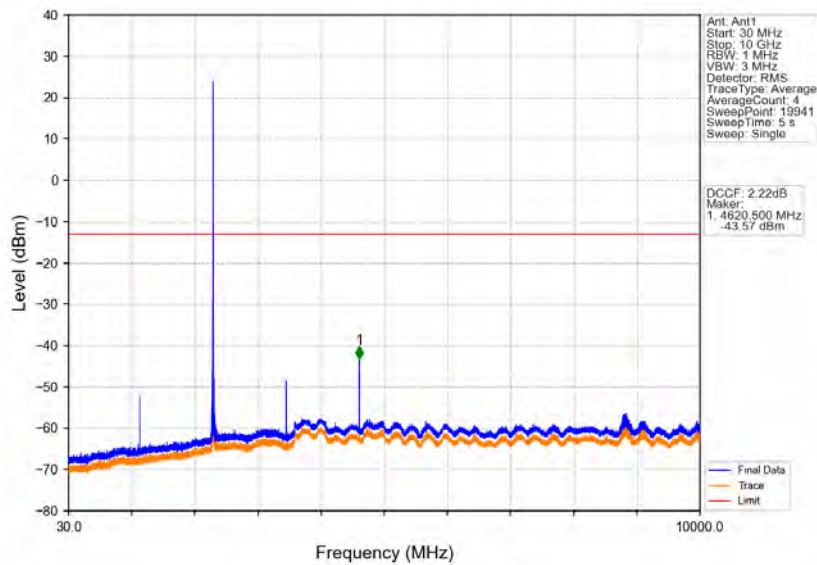


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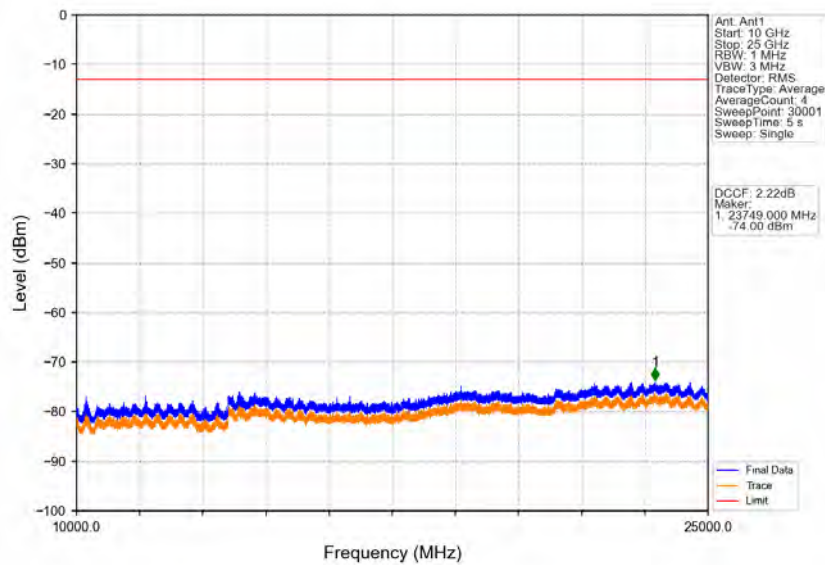
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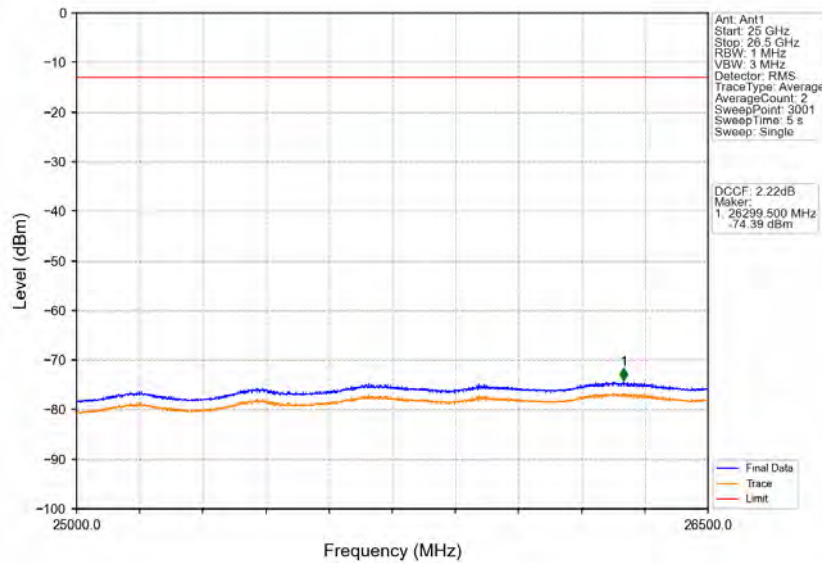
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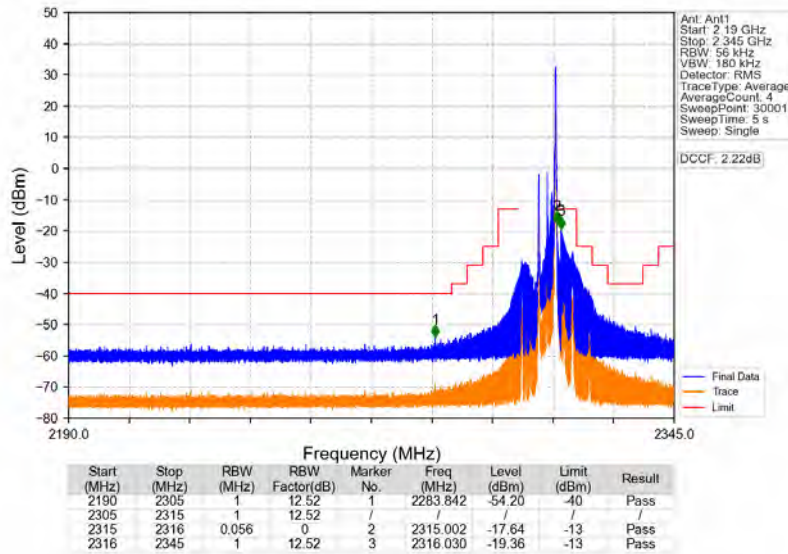


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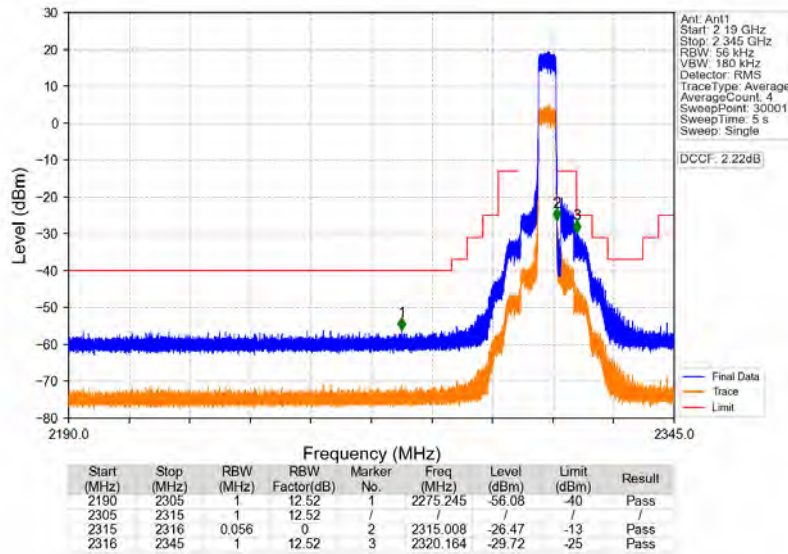
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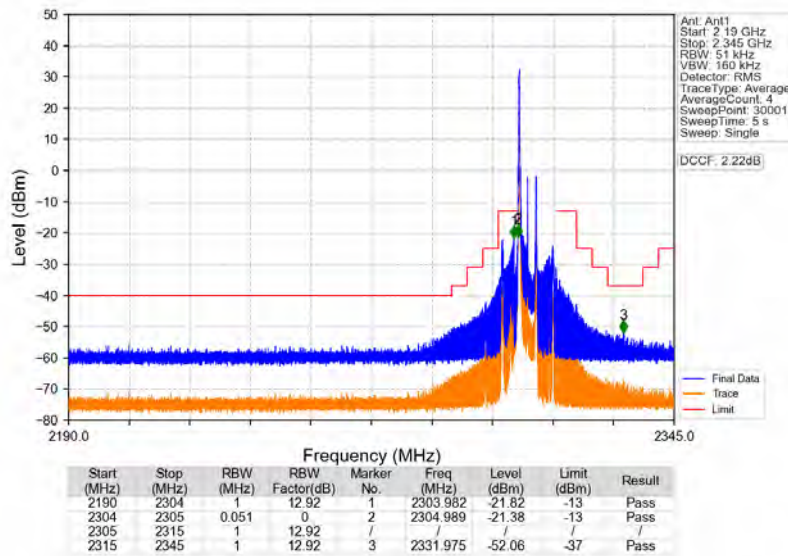
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Band40a_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



Band40a_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV



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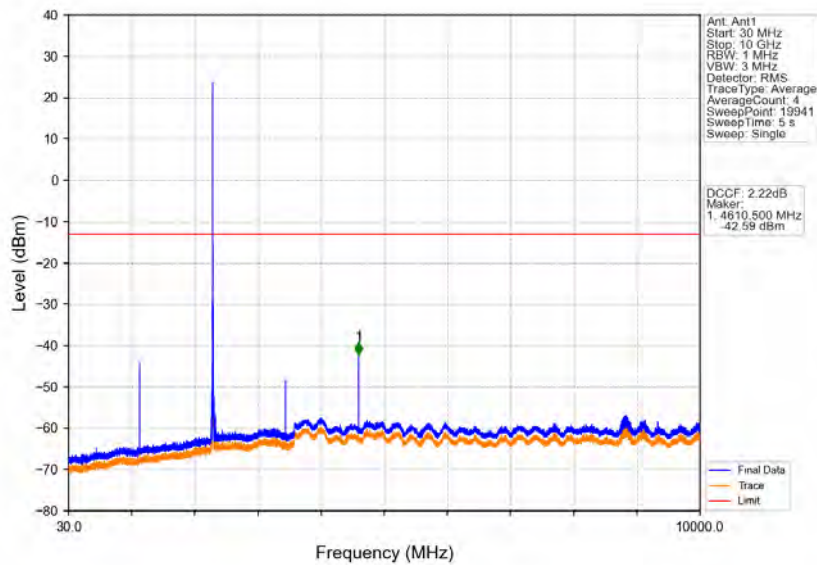
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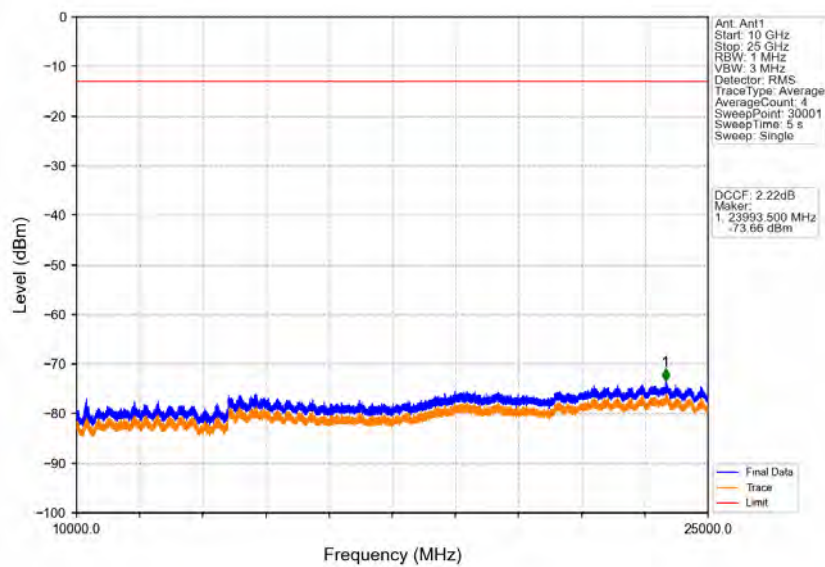


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Band40a_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV



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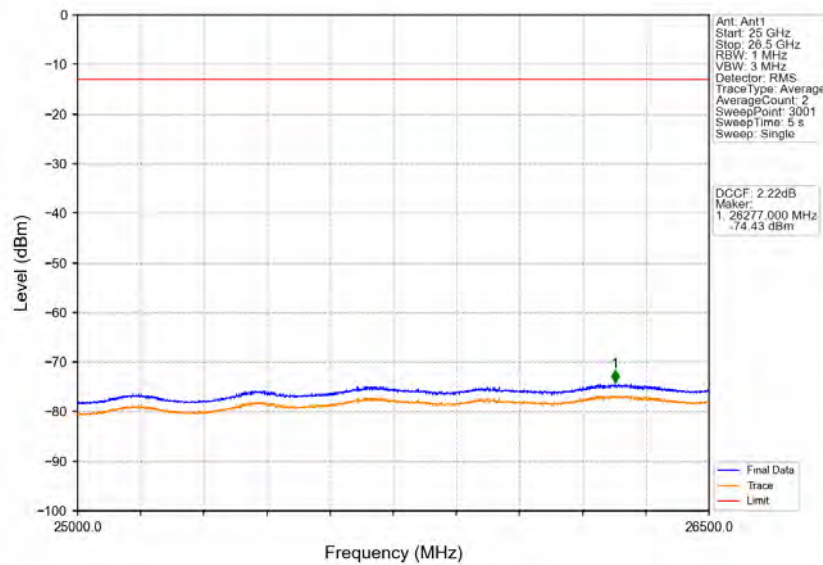
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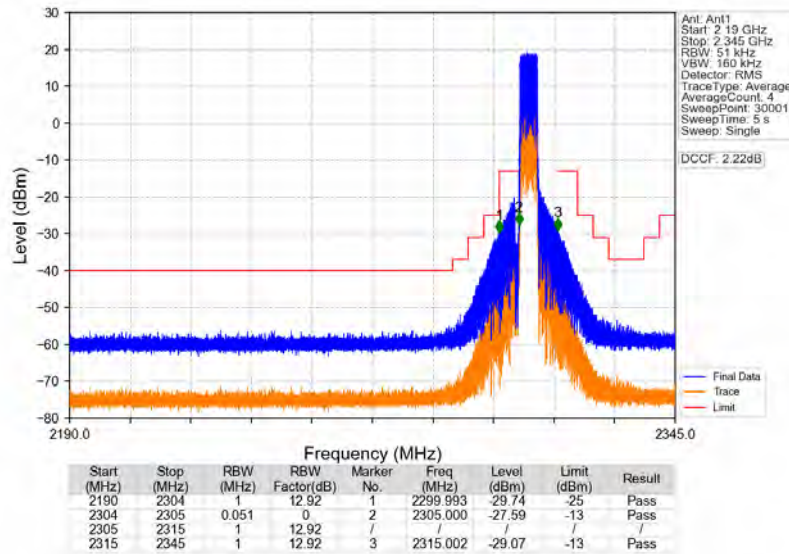
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Band40a_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



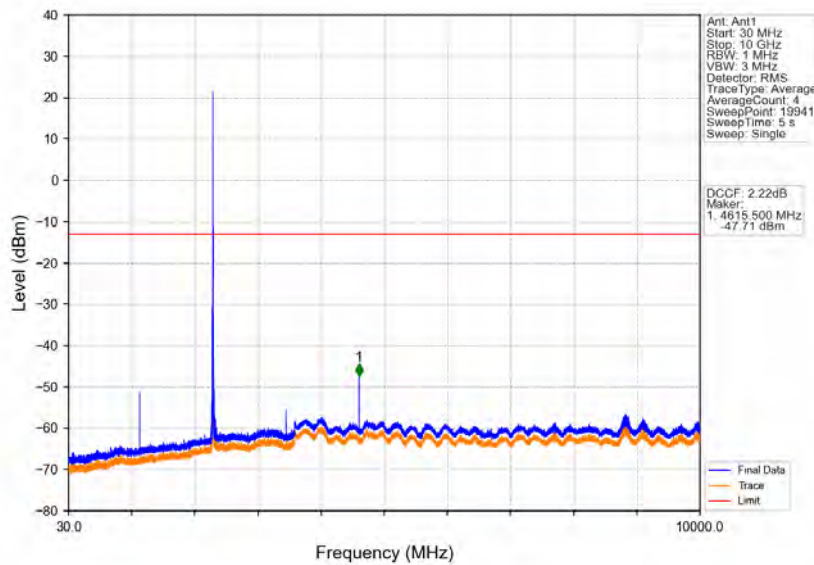
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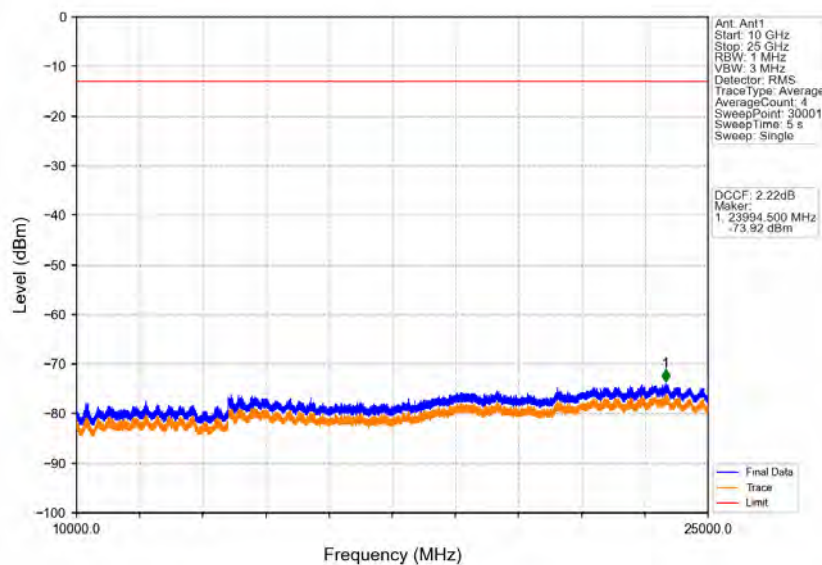
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Band40a_5MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV



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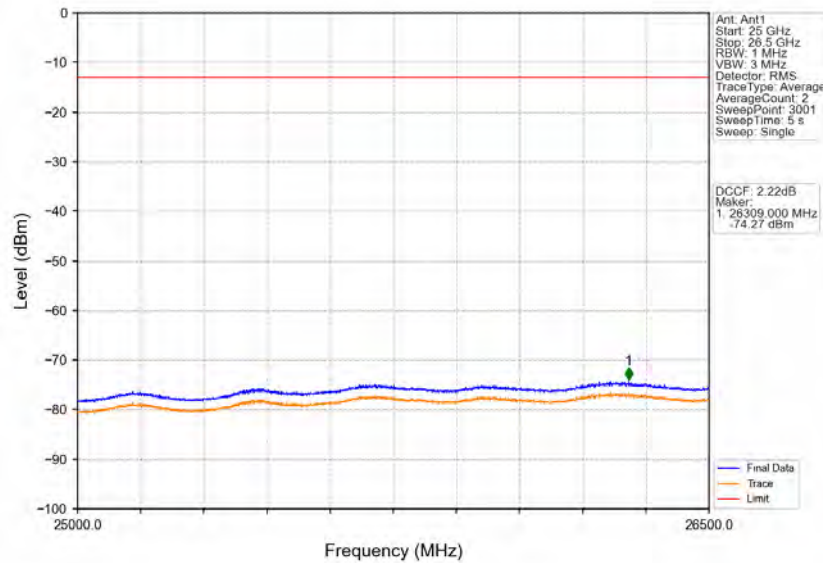
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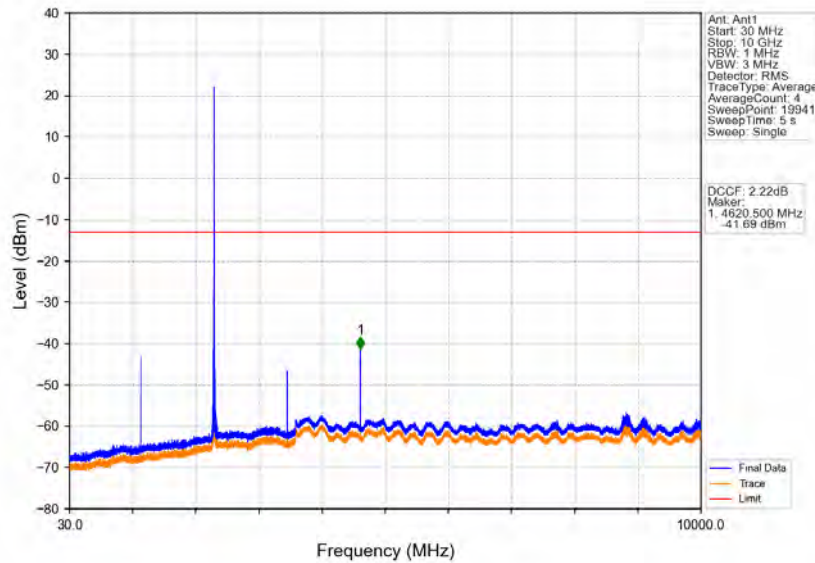
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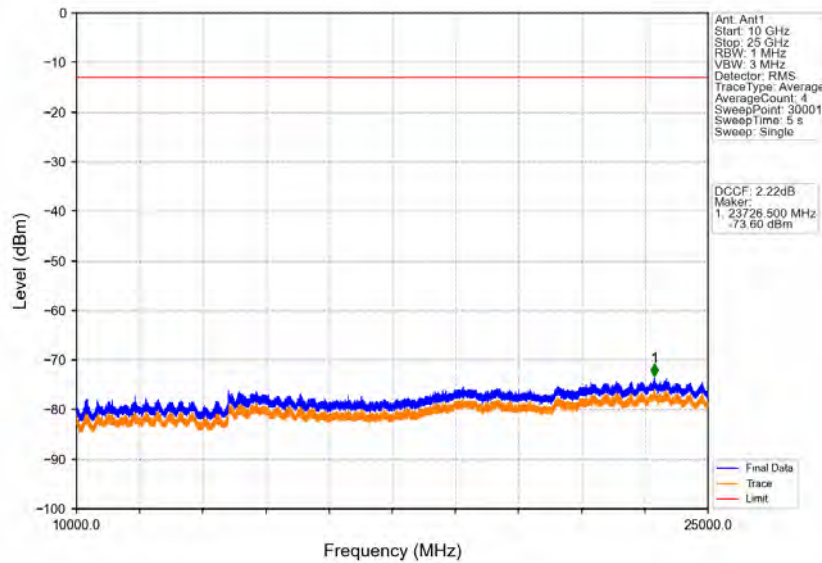


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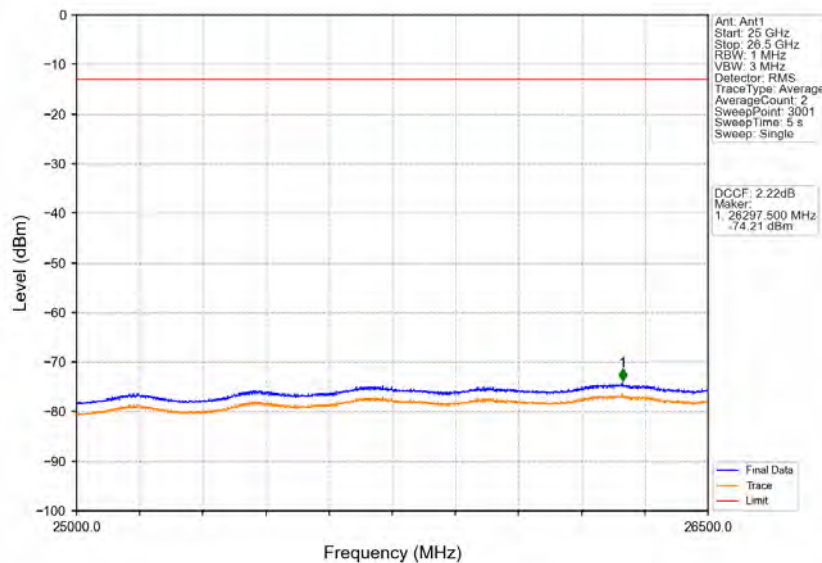
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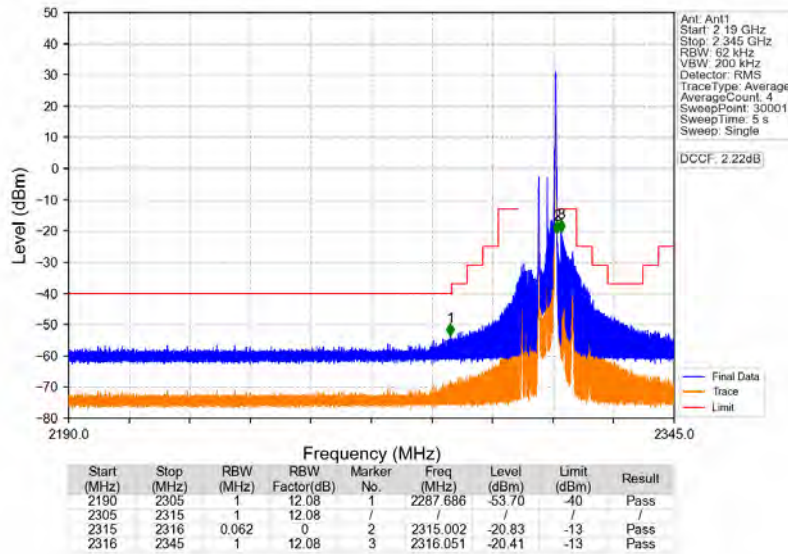
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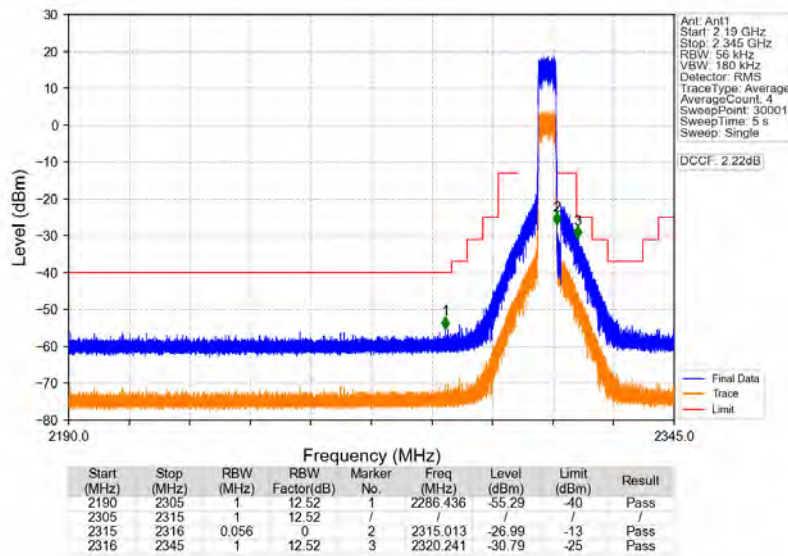
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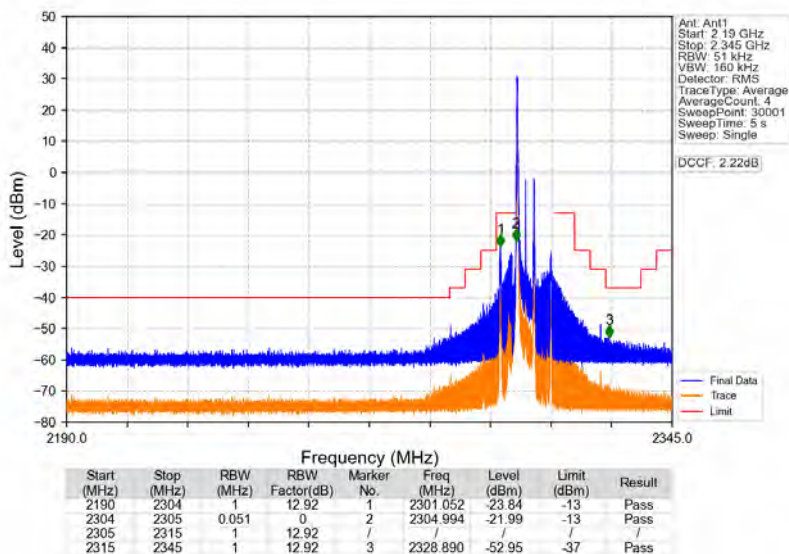
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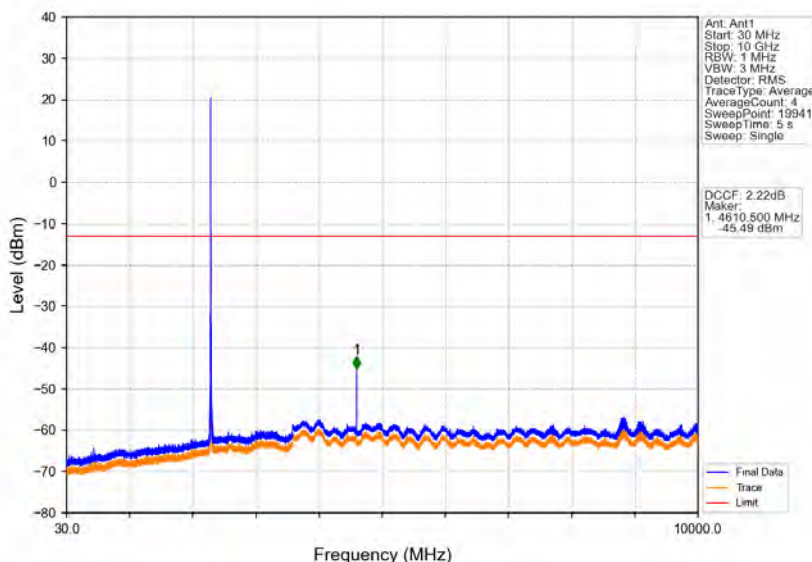
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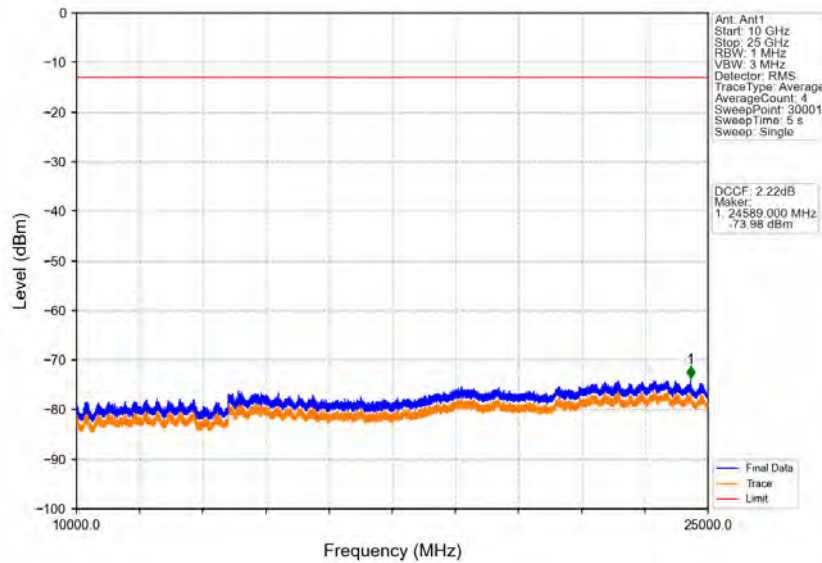
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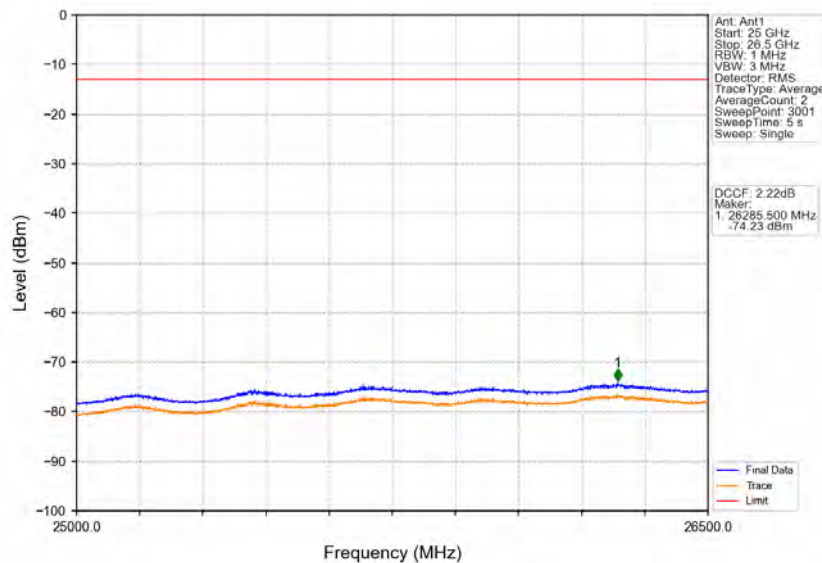
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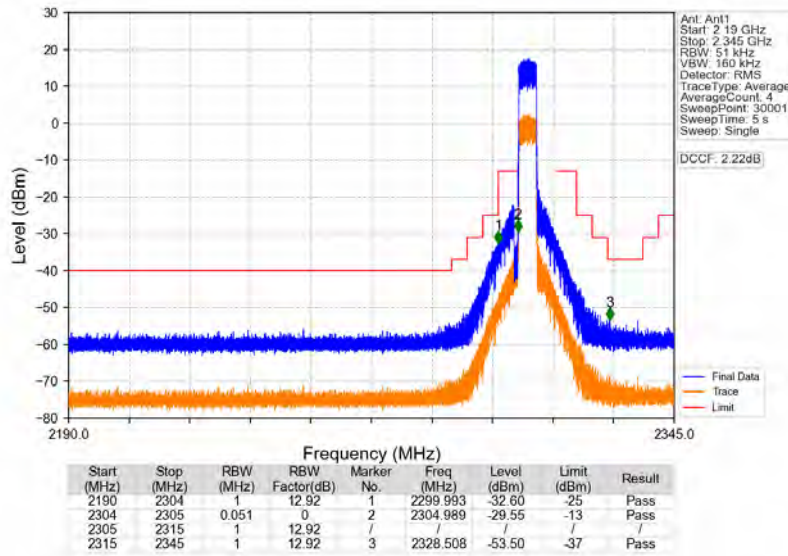


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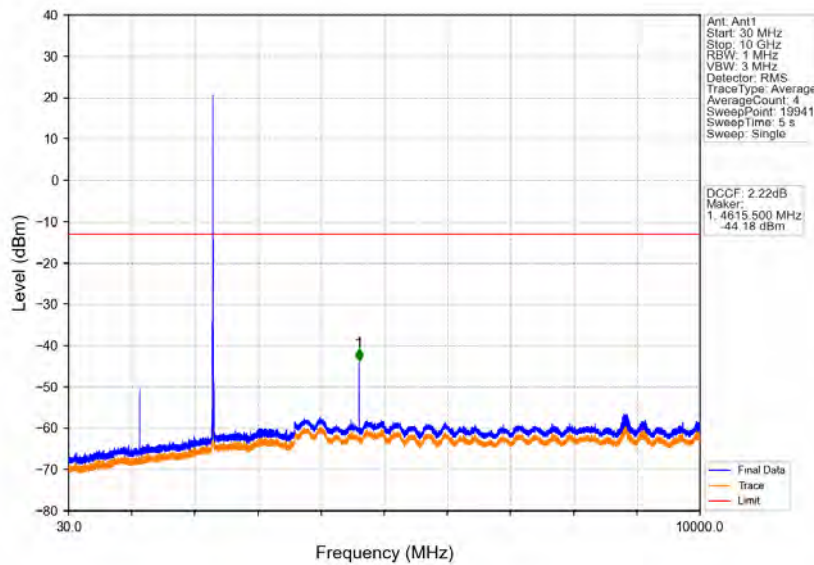
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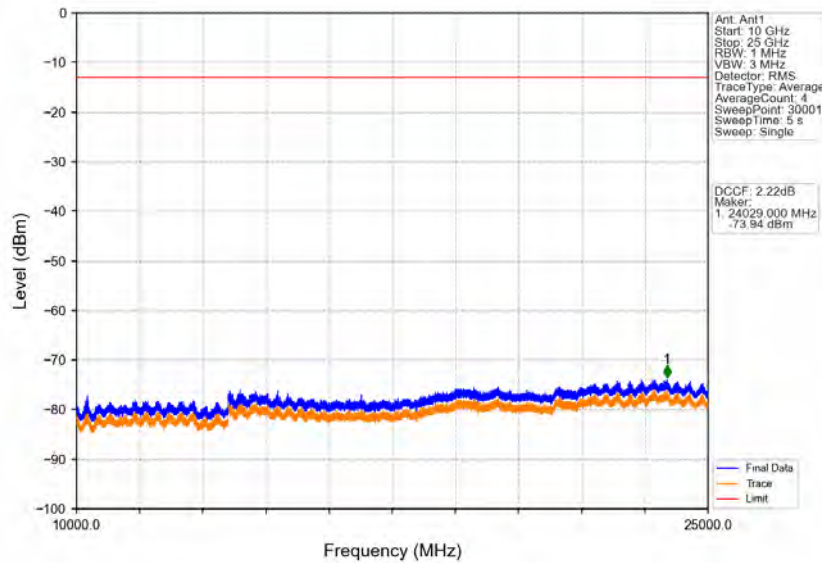
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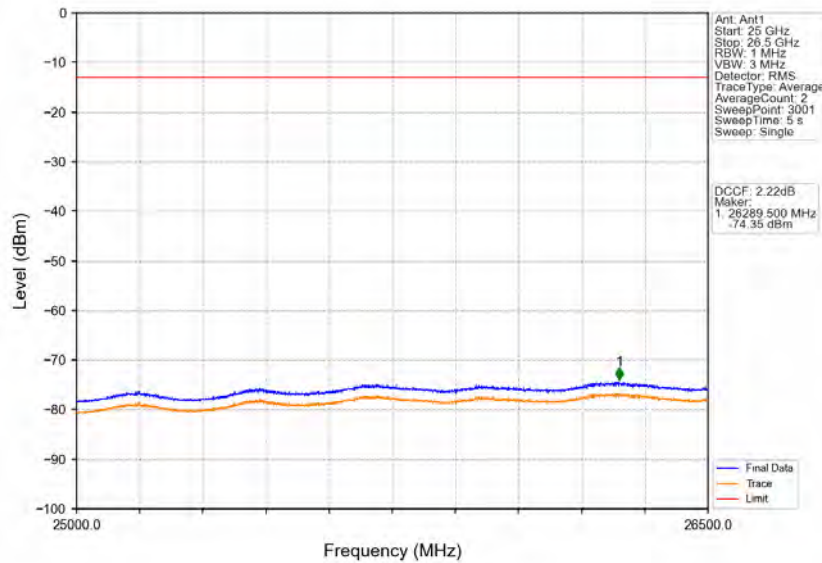
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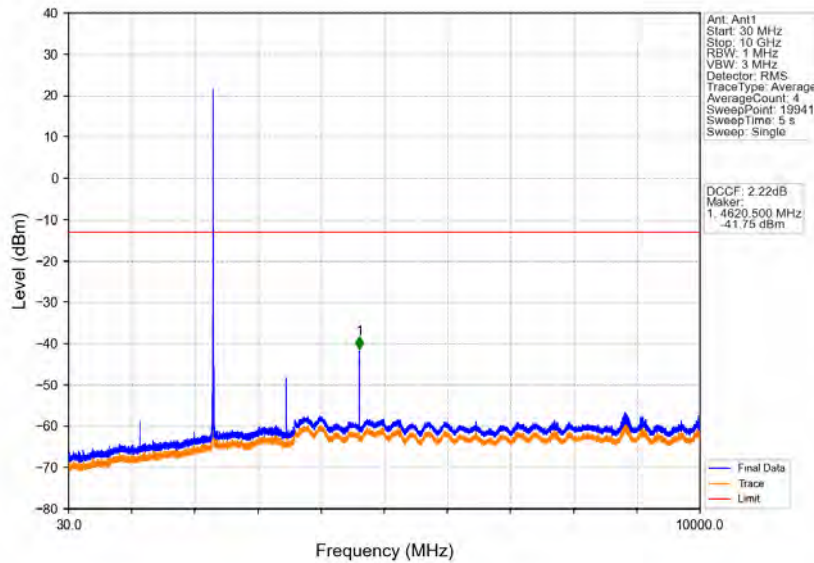


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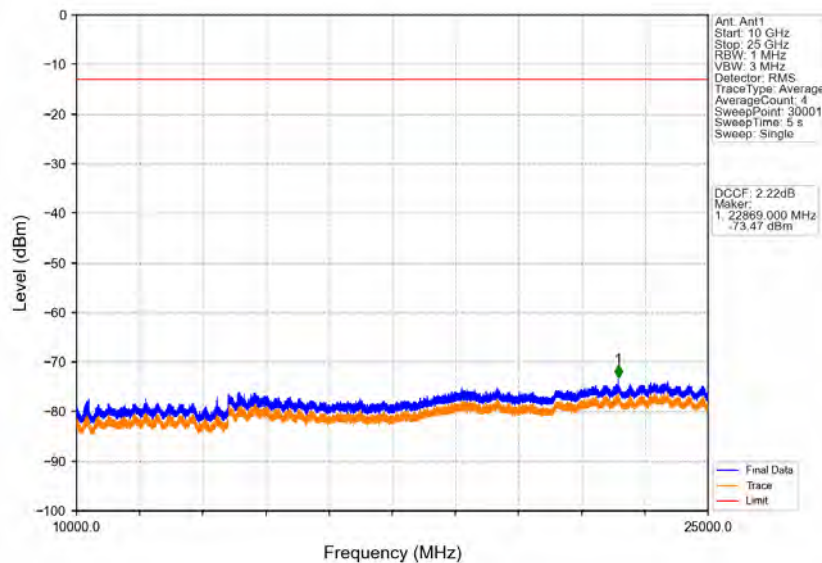
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Band40a_5MHz_64QAM_HCH_2312.5MHz_RB_1_0_NTNV



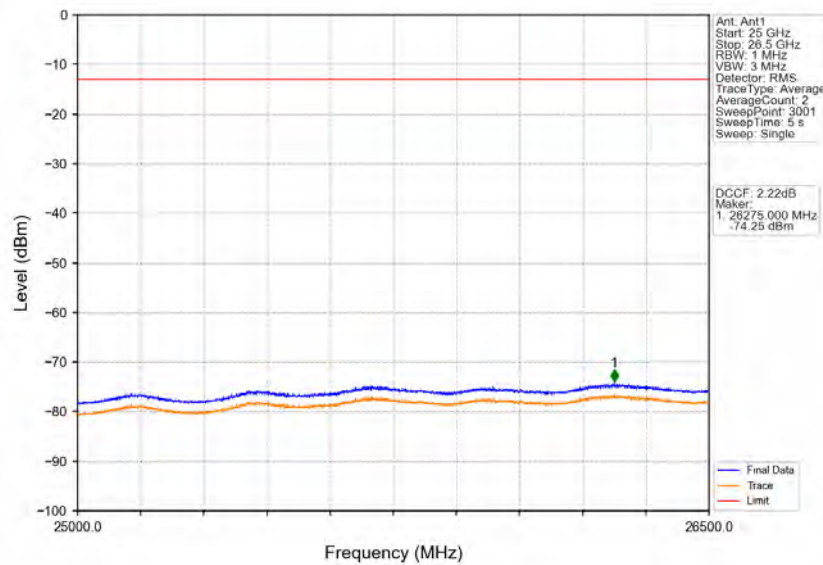
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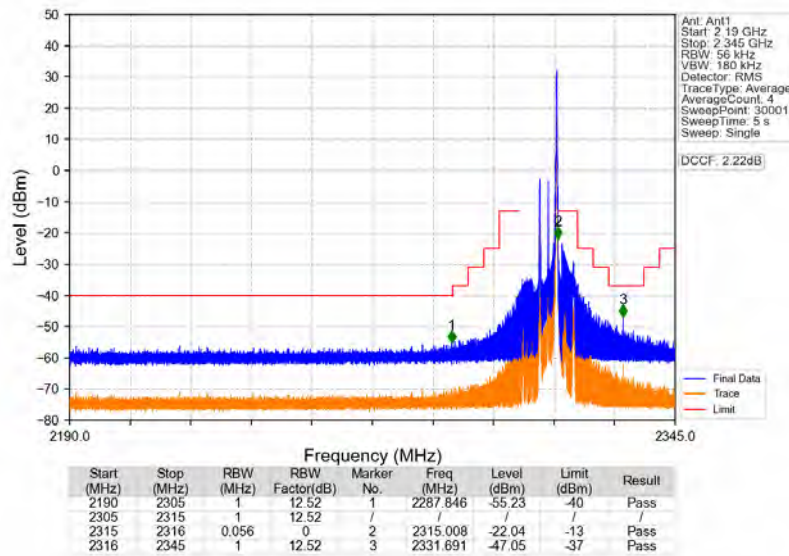
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Band40a_5MHz_64QAM_HCH_2312.5MHz_RB_1_24_NTNV



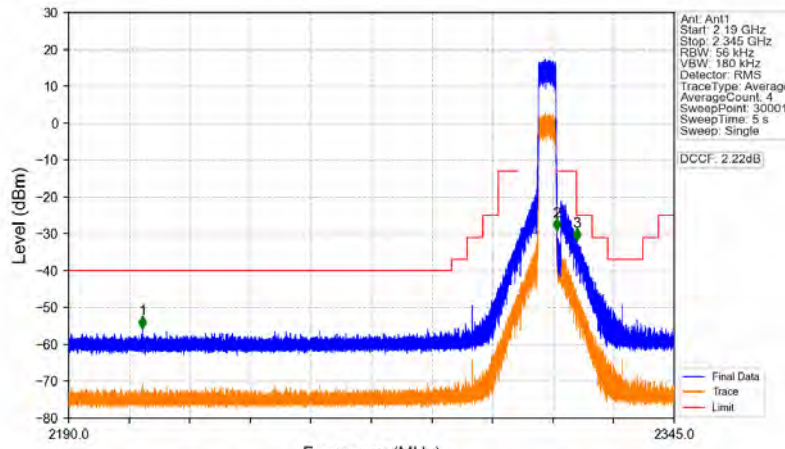
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	12.52	1	2208.941	-55.65	-40	Pass
2305	2315	1	12.52	/	/	/	/	/
2315	2316	0.056	0	2	2315.013	-29.19	-13	Pass
2316	2345	1	12.52	3	2320.076	-31.83	-25	Pass



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6.2 B40a_10MHz

6.2.1 Test Result

Band: 40a / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
64QAM	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

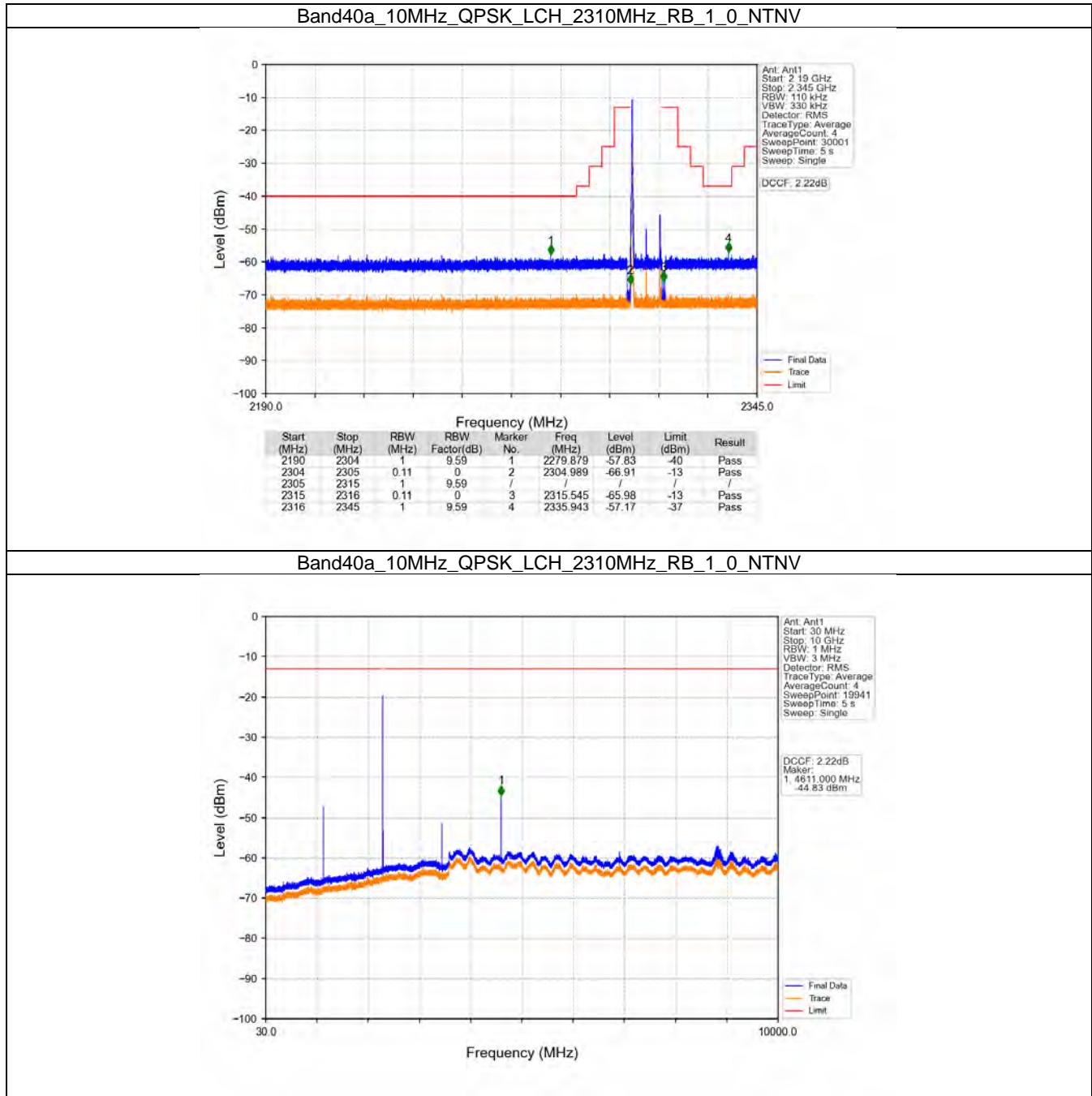


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6.2.2 Test Graph



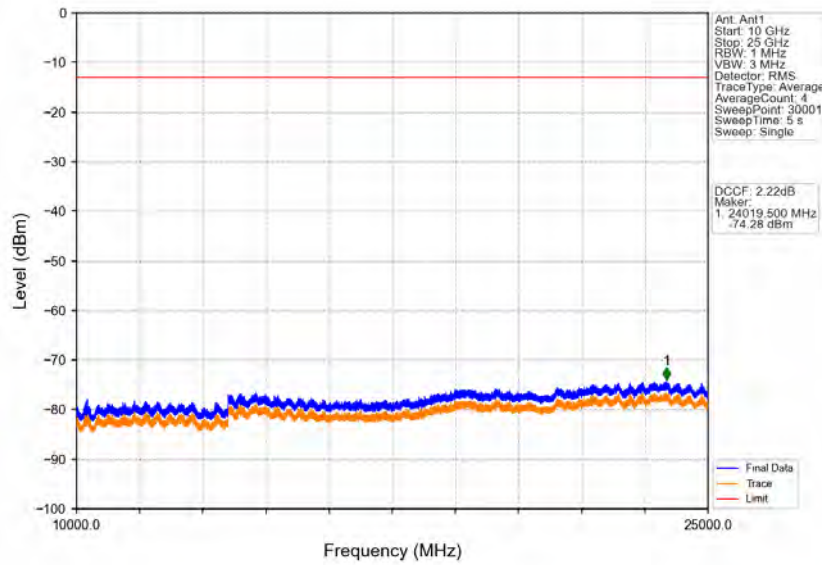
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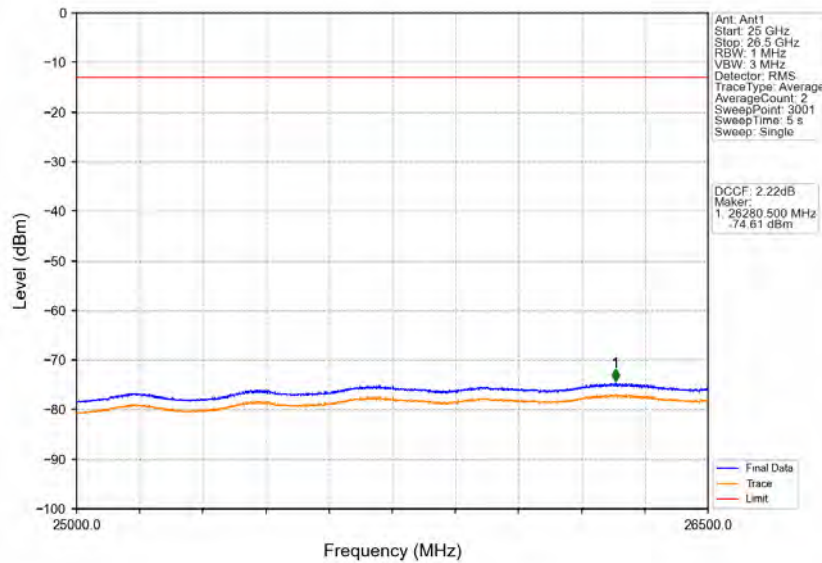
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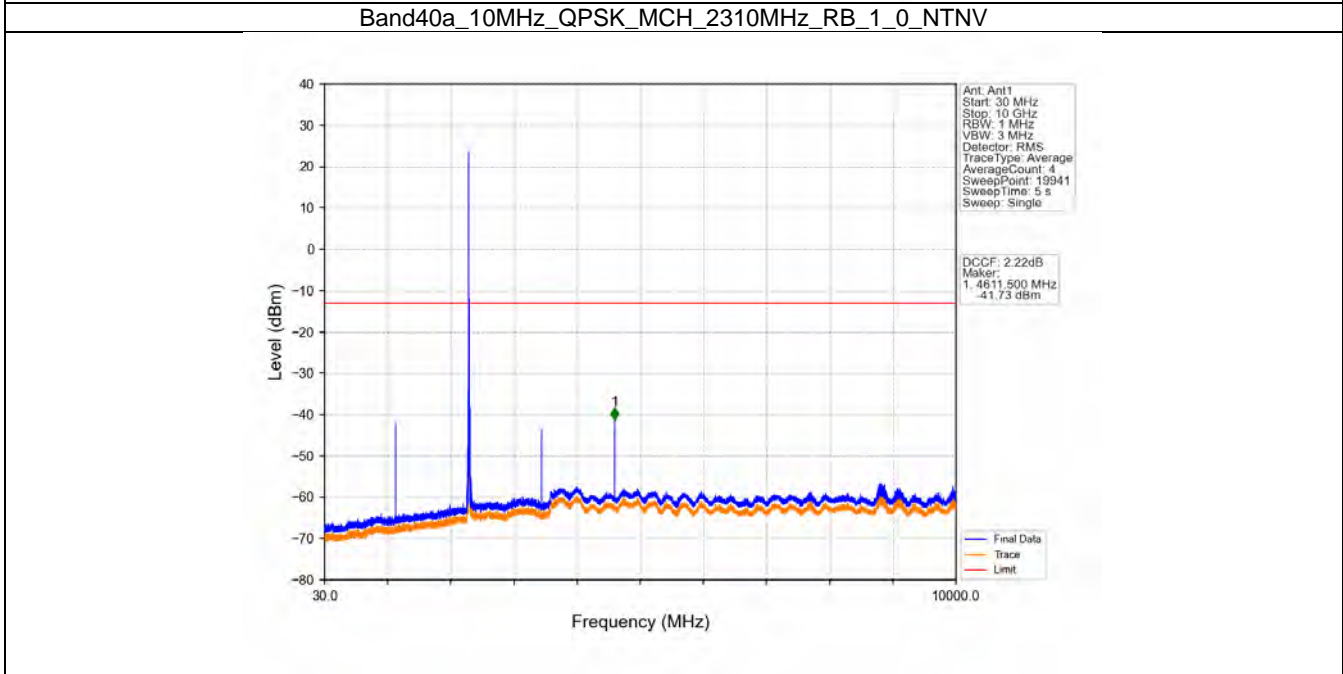
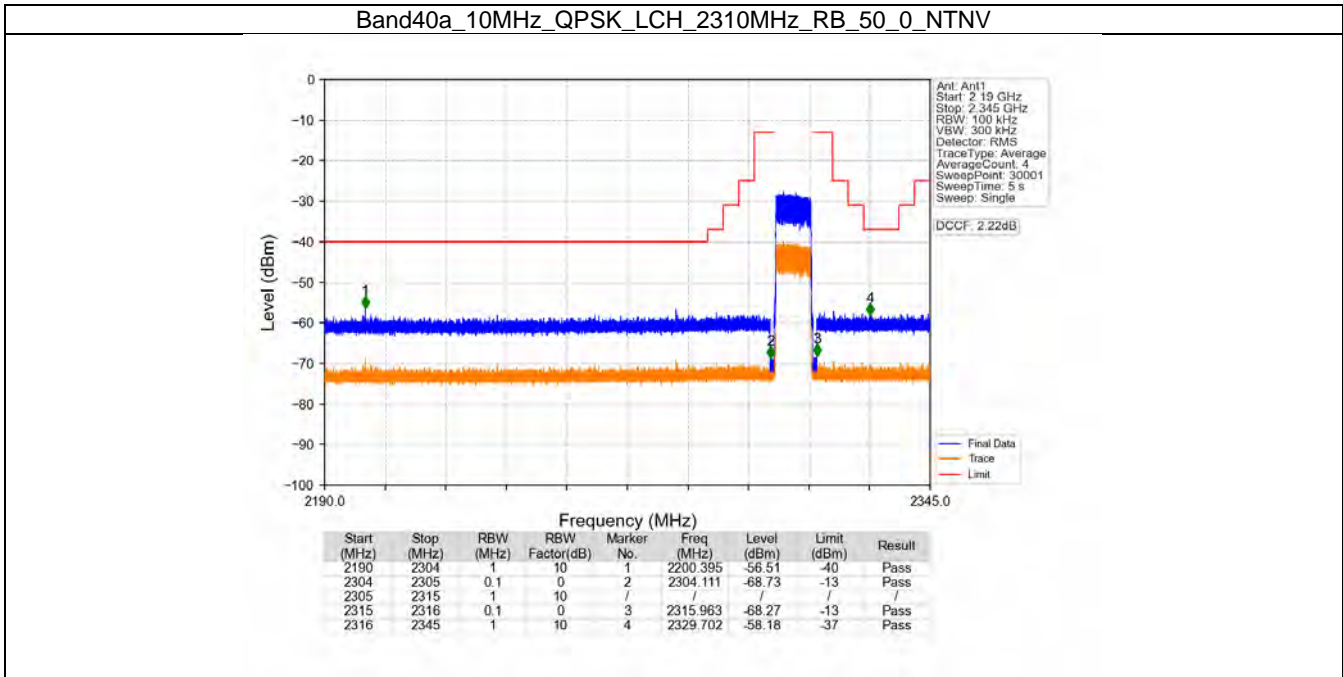


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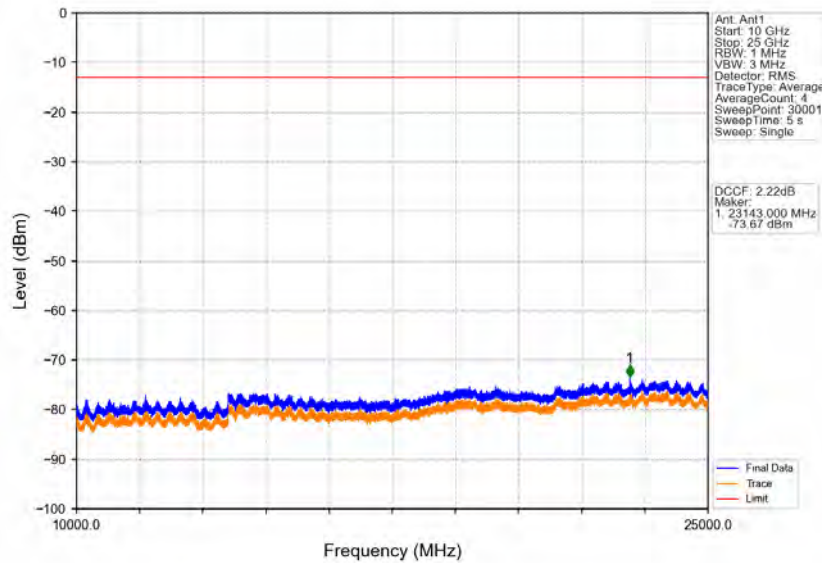
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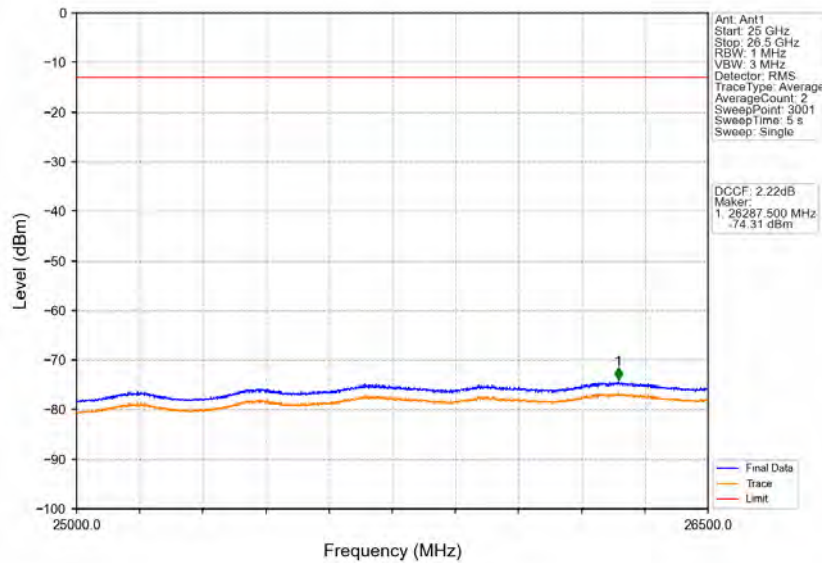
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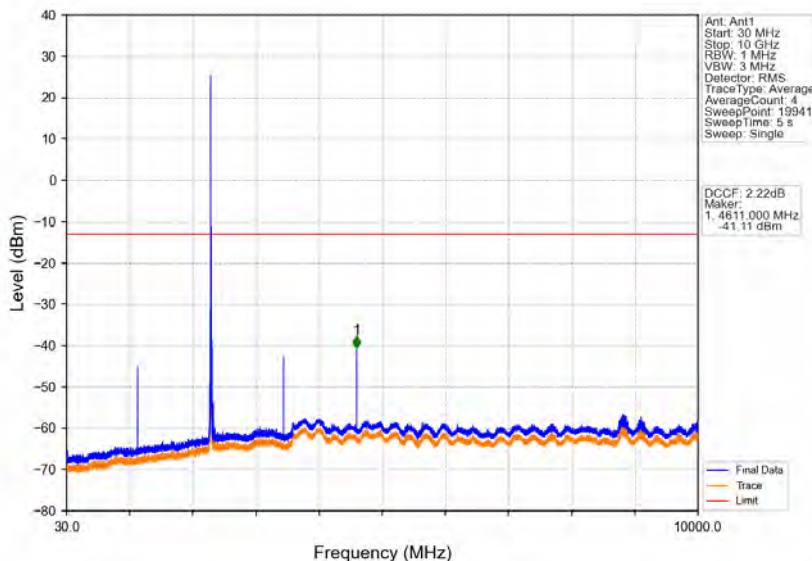


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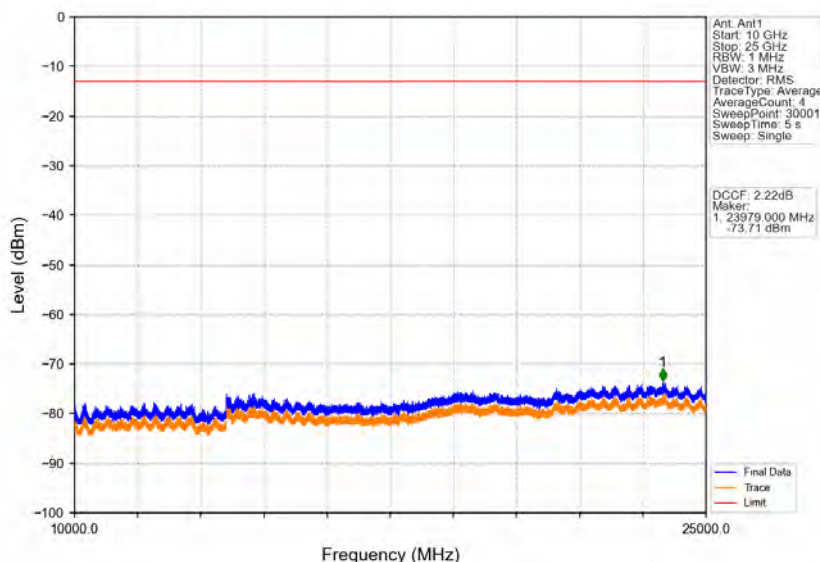
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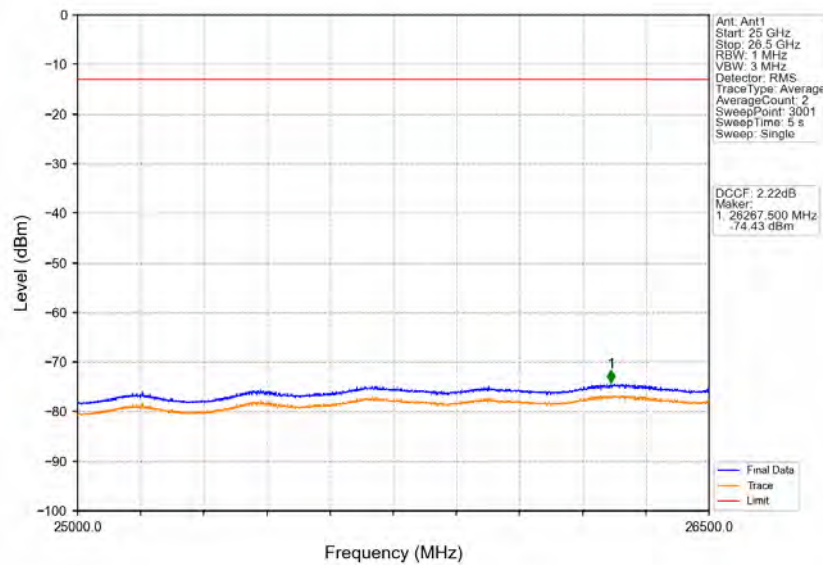
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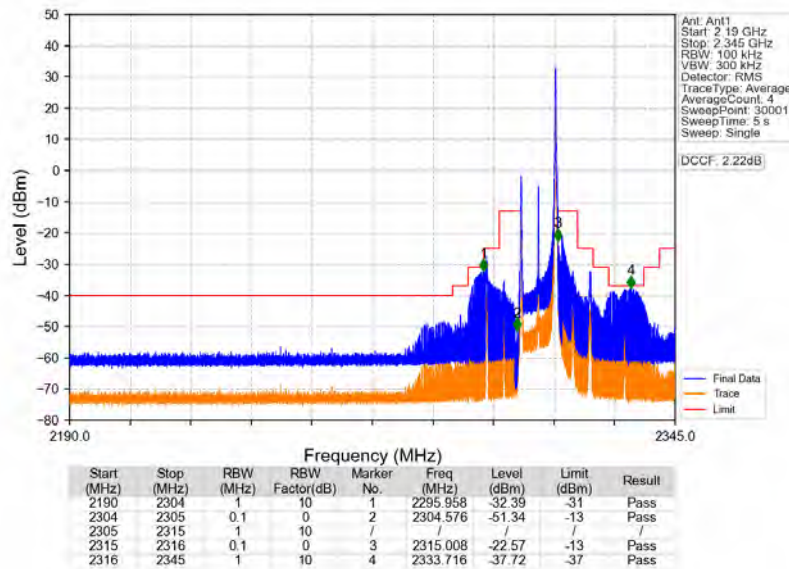
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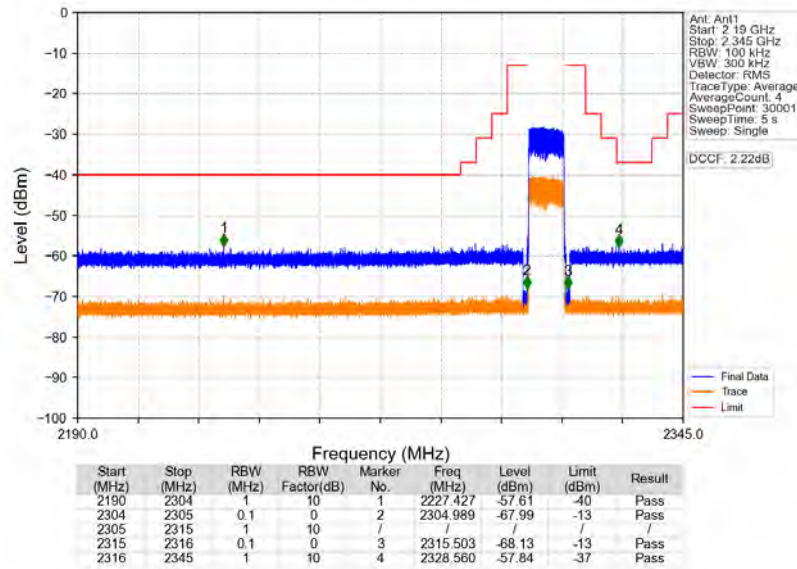
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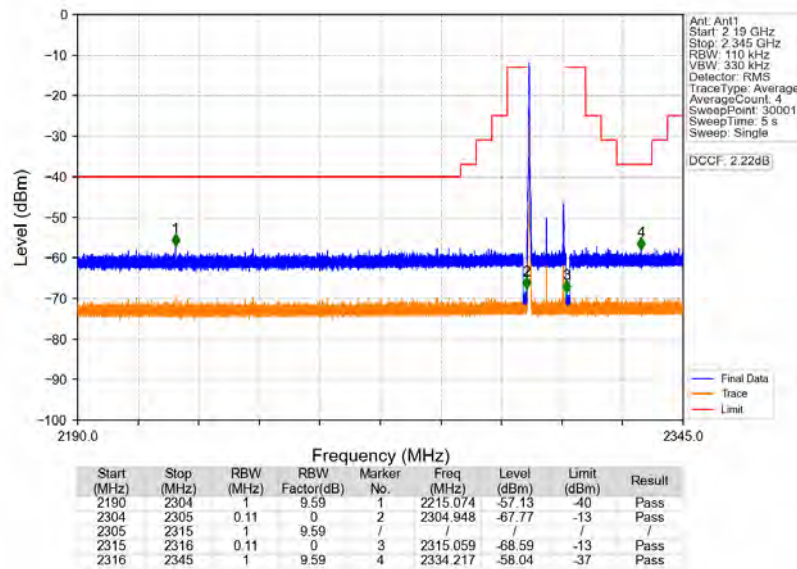
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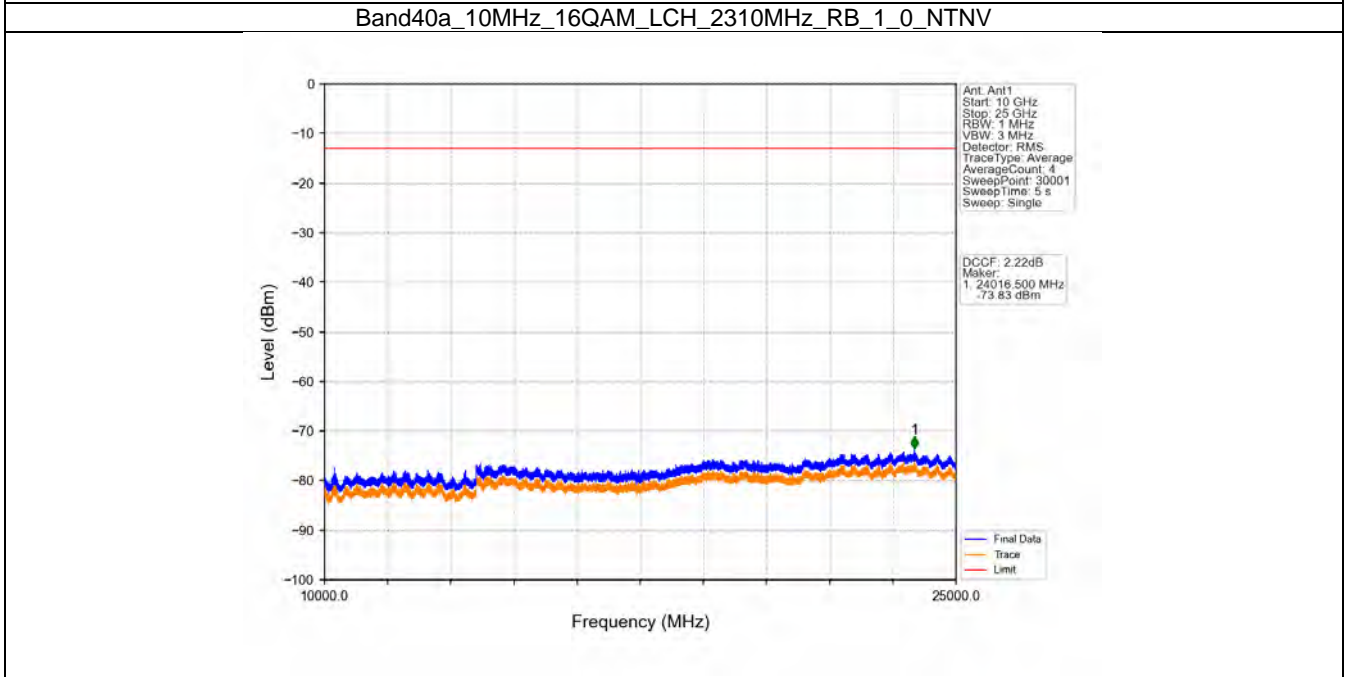
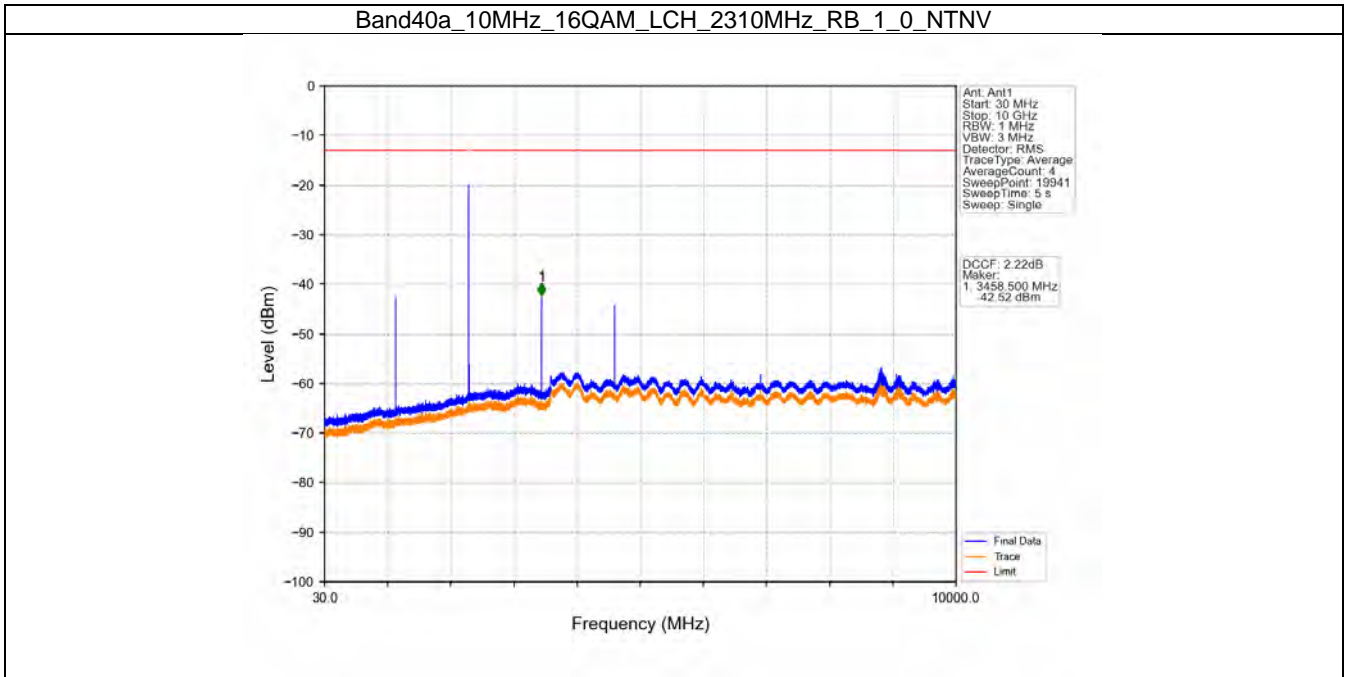
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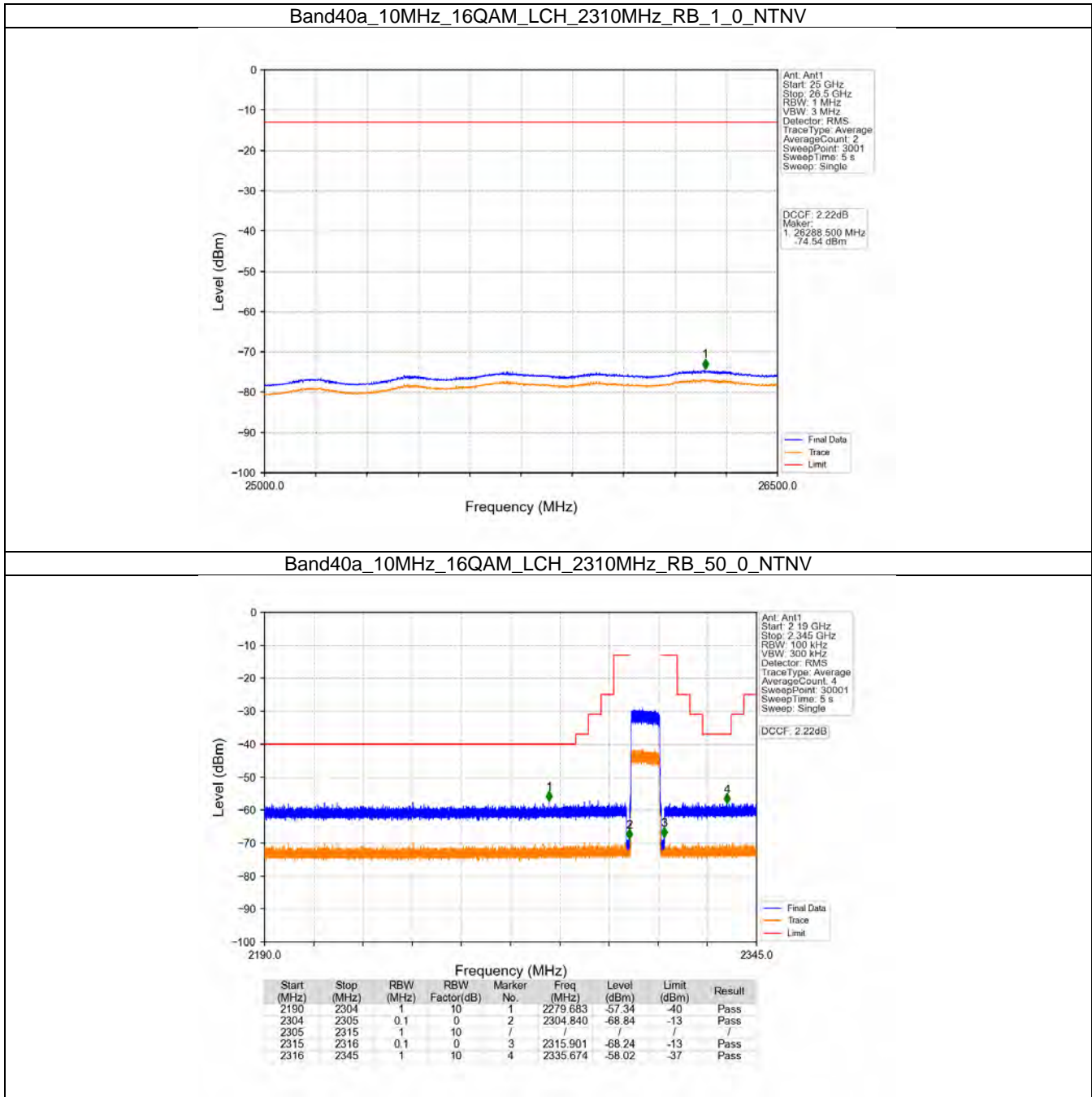


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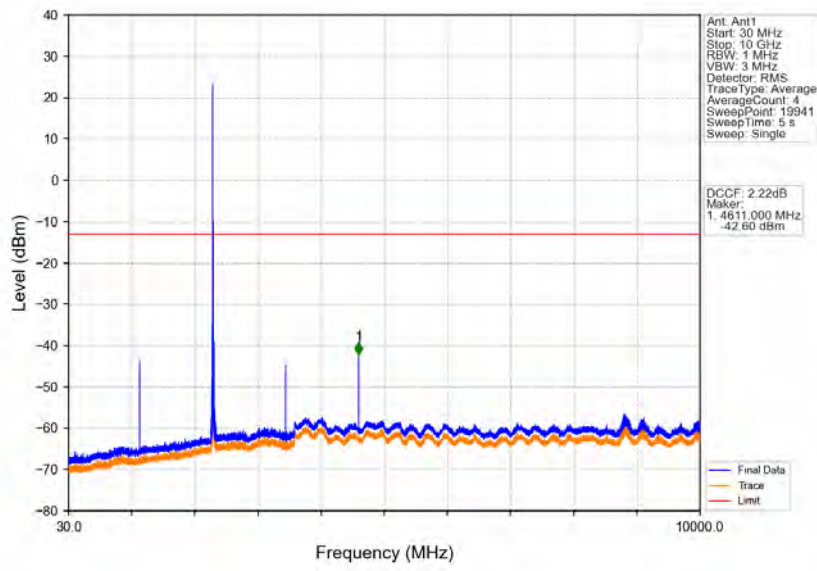
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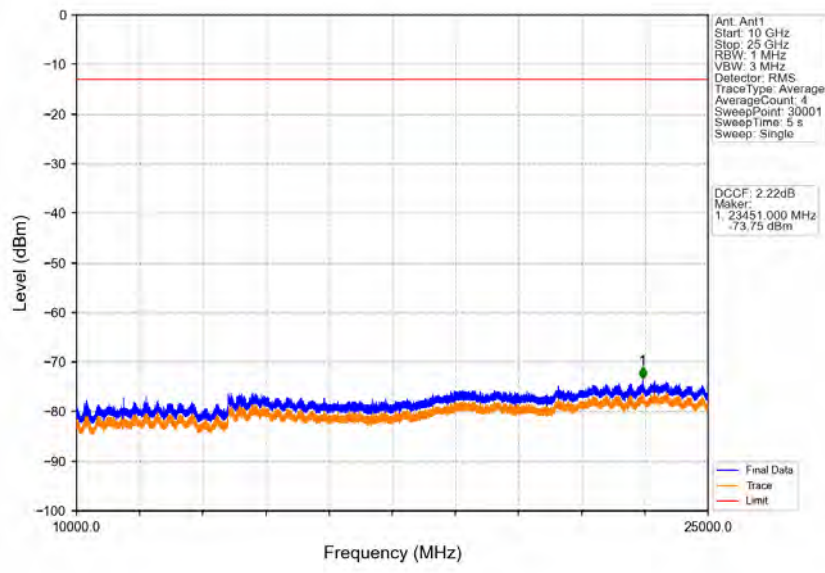
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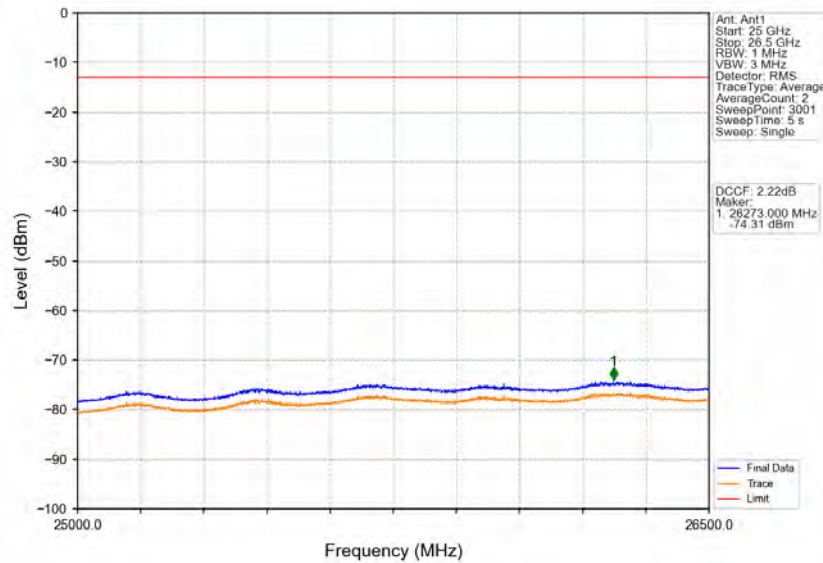
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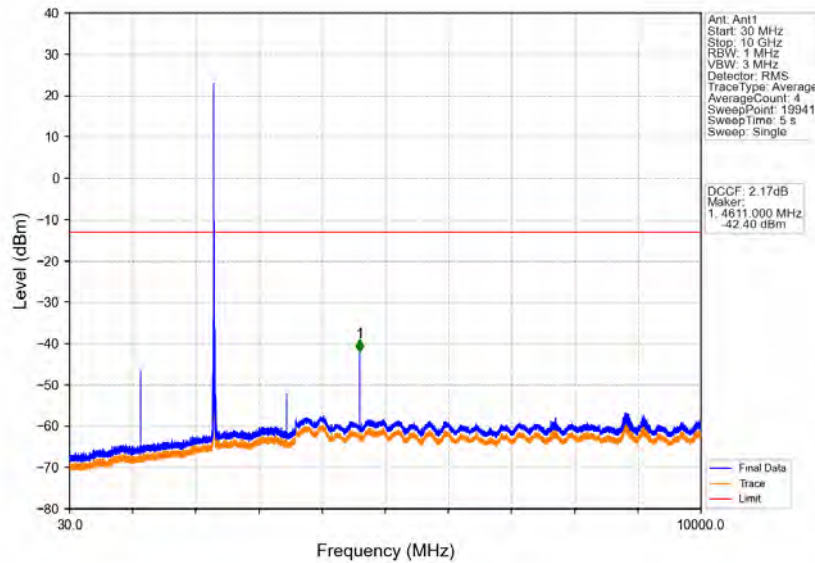
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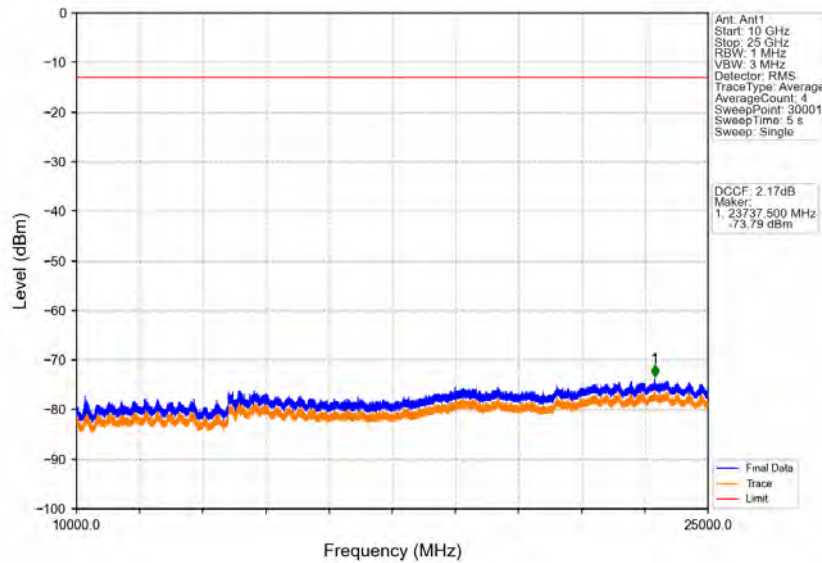
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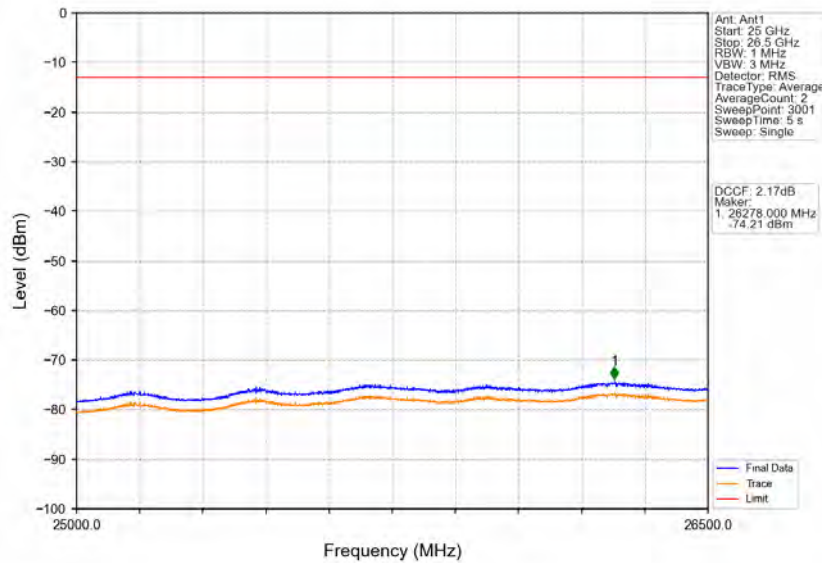
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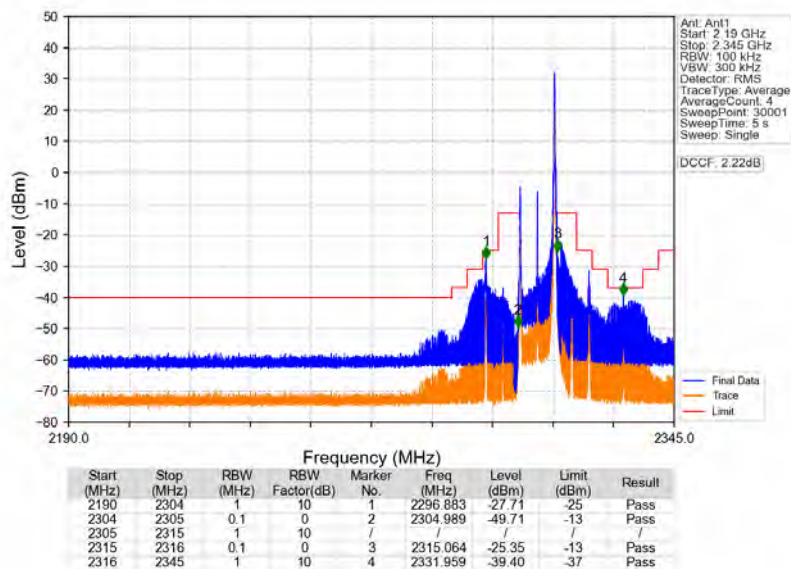
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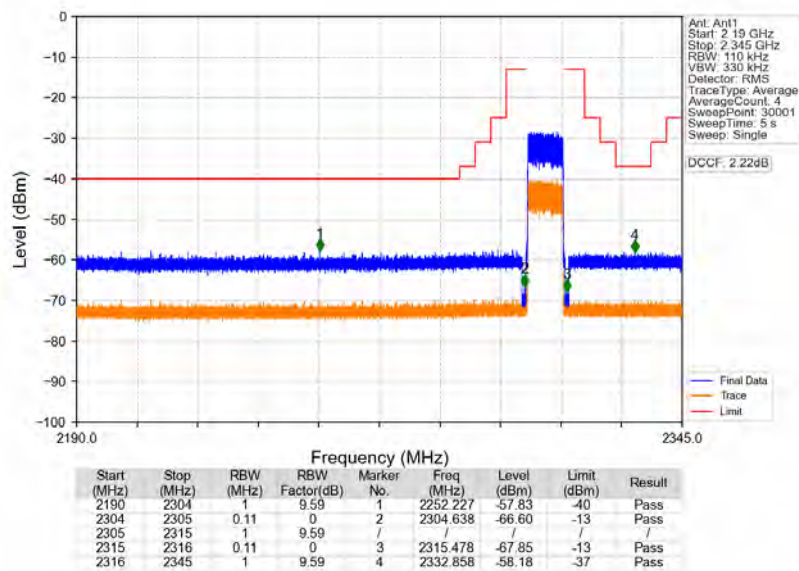
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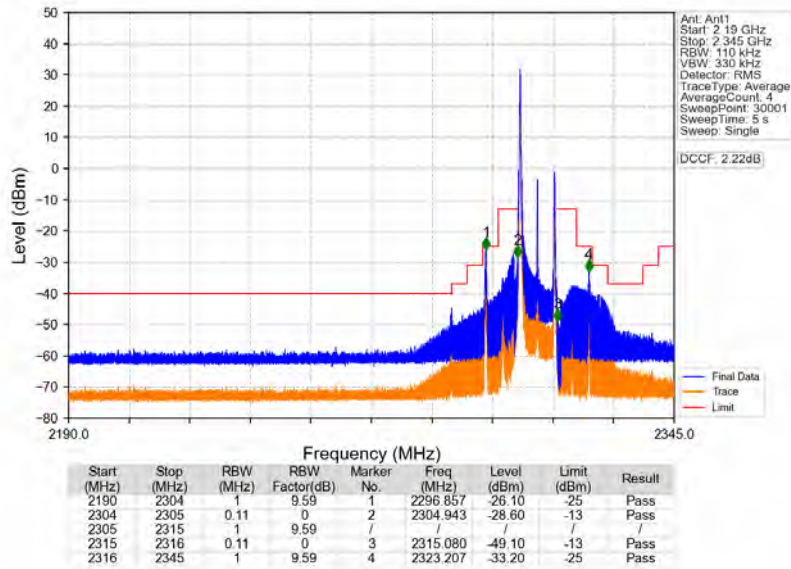
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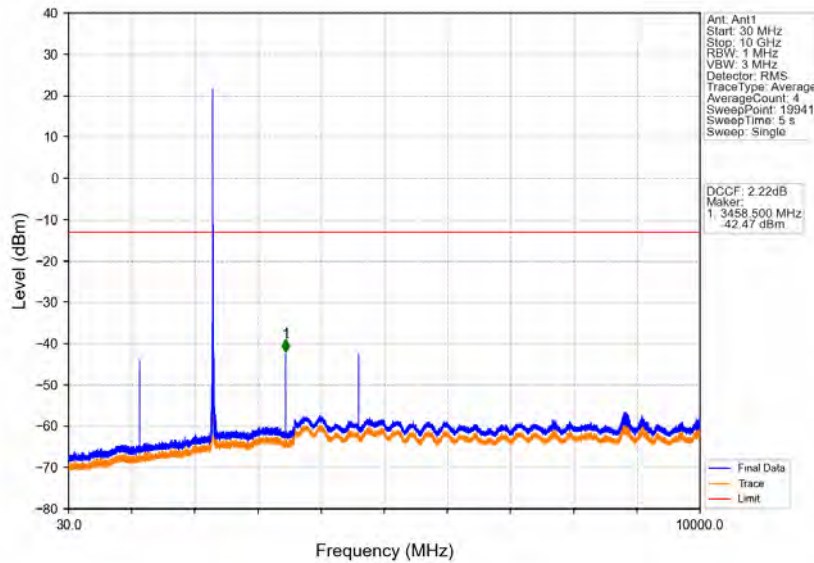
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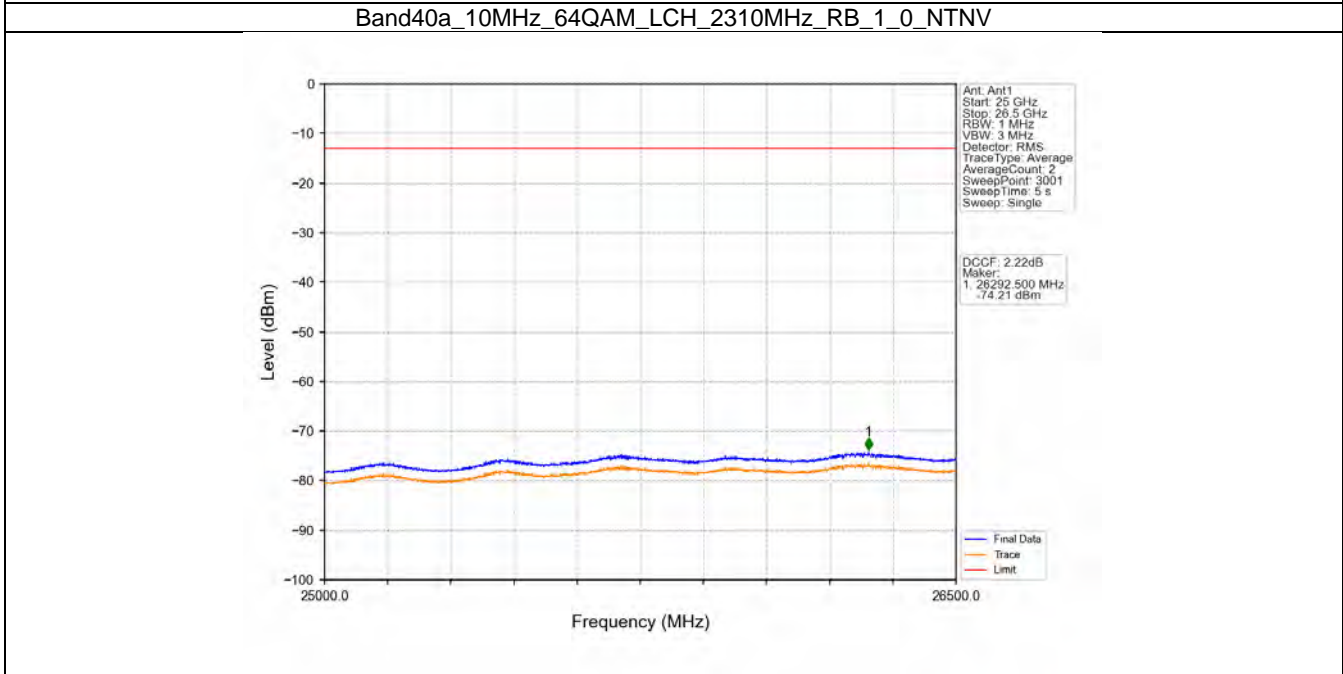
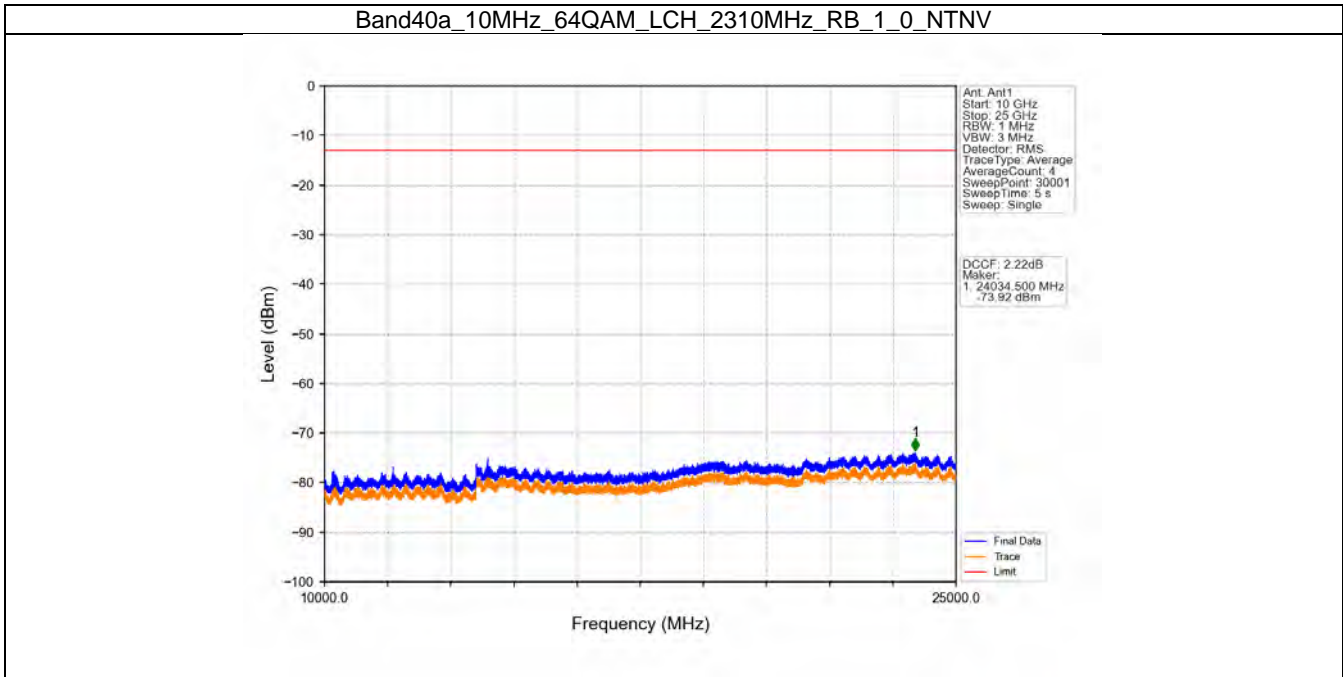
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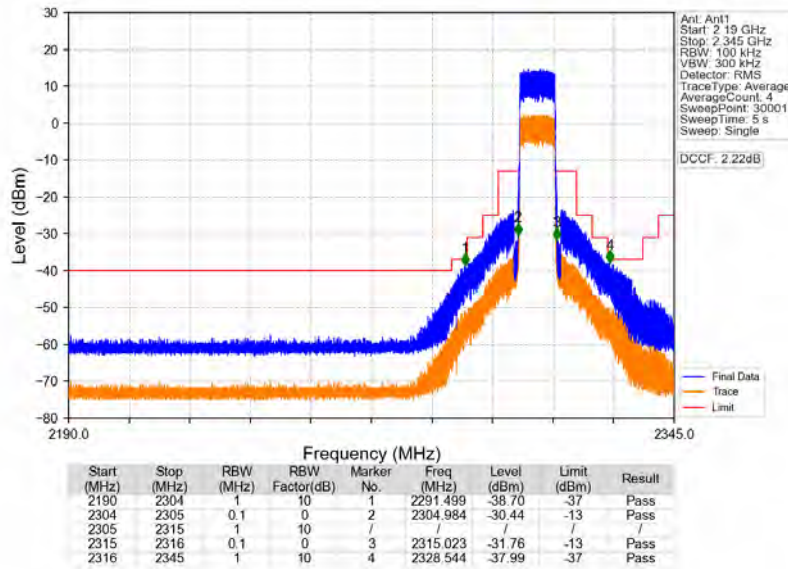
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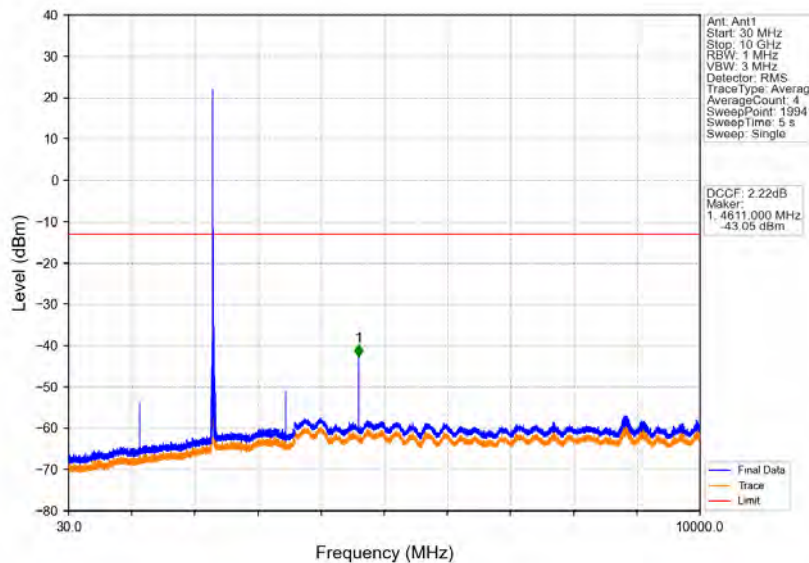
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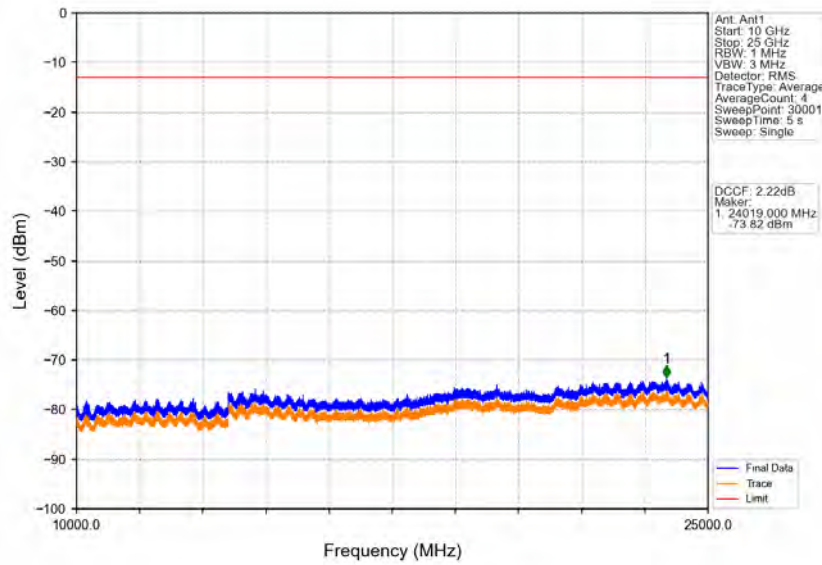
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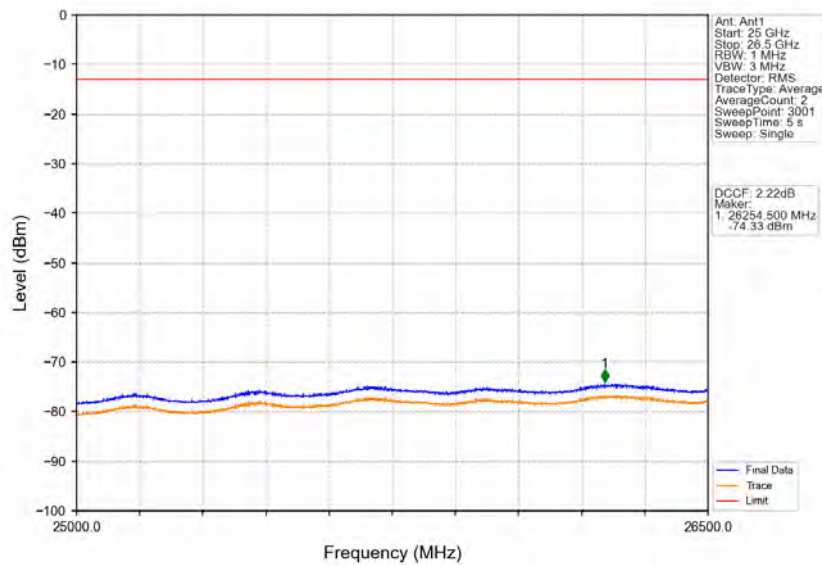
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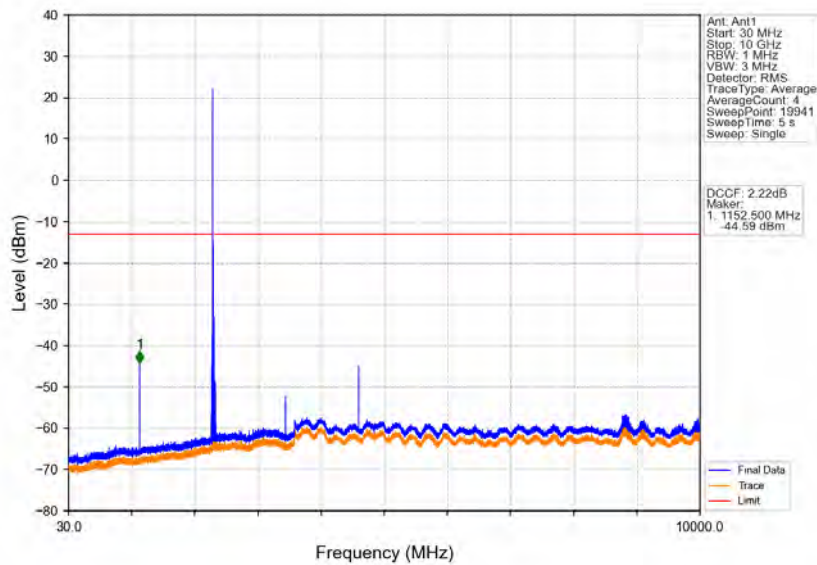
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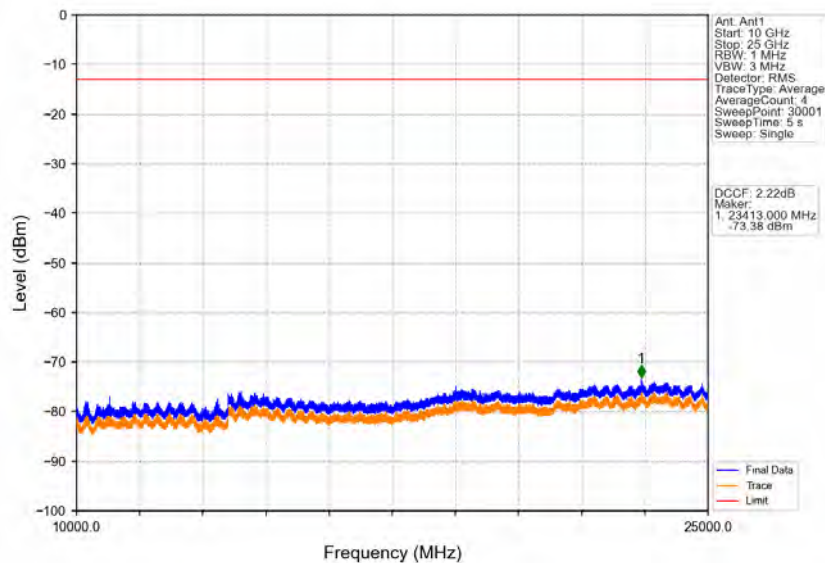
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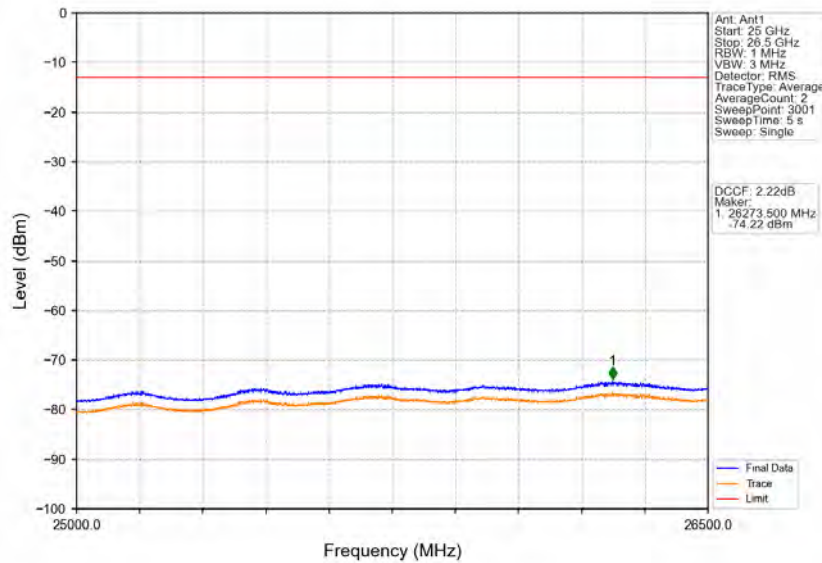
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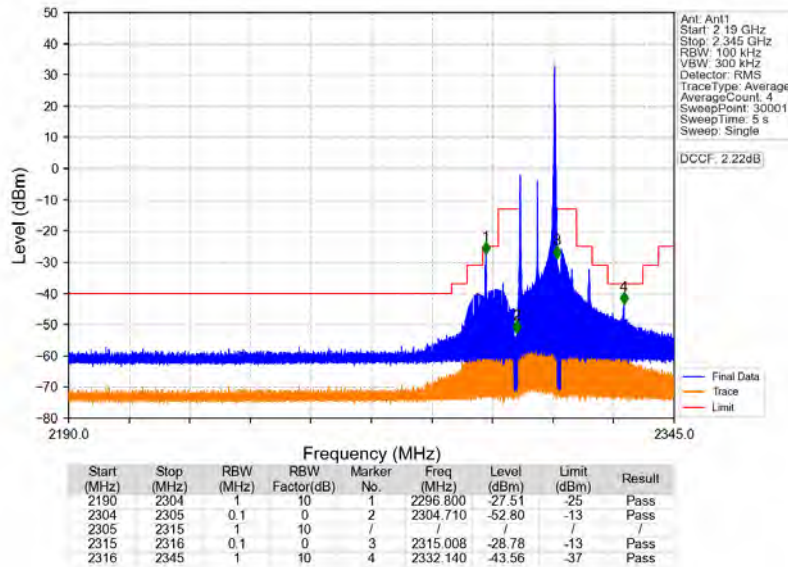
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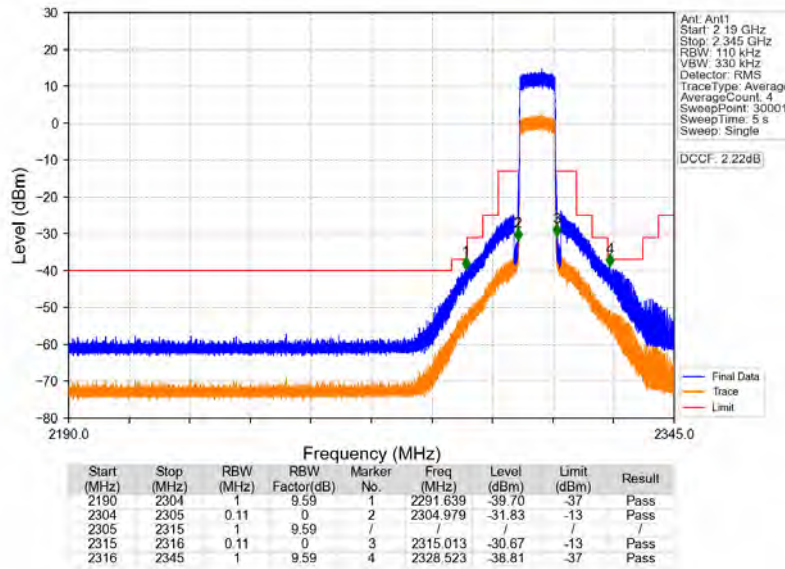
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