

Appendix C for KSCR2207001116AT-FCC-LTE-Band40b

1. Effective (Isotropic) Radiated Power Output Data

1.1 B40b\_5MHz\_EIRP

1.1.1 Test Result

Band: 40b / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2352.5	1	0	22.06	1.91	23.97	<=23.98	Pass
			13	21.75	1.91	23.66	<=23.98	Pass
			24	22.05	1.91	23.96	<=23.98	Pass
		12	0	21.15	1.91	23.06	<=23.98	Pass
			6	21.35	1.91	23.26	<=23.98	Pass
			13	21.29	1.91	23.20	<=23.98	Pass
		25	0	21.20	1.91	23.11	<=23.98	Pass
			6	21.58	1.91	23.49	<=23.98	Pass
			13	21.85	1.91	23.76	<=23.98	Pass
	2355	1	0	21.85	1.91	23.76	<=23.98	Pass
			13	21.67	1.91	23.58	<=23.98	Pass
			24	21.18	1.91	23.09	<=23.98	Pass
		12	0	21.18	1.91	23.09	<=23.98	Pass
			6	21.41	1.91	23.32	<=23.98	Pass
			13	21.31	1.91	23.22	<=23.98	Pass
		25	0	21.27	1.91	23.18	<=23.98	Pass
			6	21.69	1.91	23.60	<=23.98	Pass
			13	21.61	1.91	23.52	<=23.98	Pass
	2357.5	1	0	21.69	1.91	23.60	<=23.98	Pass
			13	21.61	1.91	23.52	<=23.98	Pass
			24	21.51	1.91	23.42	<=23.98	Pass
		12	0	21.23	1.91	23.14	<=23.98	Pass
			6	21.38	1.91	23.29	<=23.98	Pass
			13	21.32	1.91	23.23	<=23.98	Pass
25		0	21.35	1.91	23.26	<=23.98	Pass	
		6	21.15	1.91	23.06	<=23.98	Pass	
		13	21.19	1.91	23.10	<=23.98	Pass	
16QAM	2352.5	1	0	21.15	1.91	23.06	<=23.98	Pass
			13	21.19	1.91	23.10	<=23.98	Pass
			24	21.18	1.91	23.09	<=23.98	Pass
		12	0	20.16	1.91	22.07	<=23.98	Pass
			6	20.37	1.91	22.28	<=23.98	Pass
			13	20.34	1.91	22.25	<=23.98	Pass
		25	0	20.28	1.91	22.19	<=23.98	Pass
			6	21.19	1.91	23.10	<=23.98	Pass
			13	21.31	1.91	23.22	<=23.98	Pass
	2355	1	0	21.16	1.91	23.07	<=23.98	Pass
			13	21.16	1.91	23.07	<=23.98	Pass
			24	20.21	1.91	22.12	<=23.98	Pass
		12	0	20.21	1.91	22.12	<=23.98	Pass
			6	20.38	1.91	22.29	<=23.98	Pass
			13	20.33	1.91	22.24	<=23.98	Pass
		25	0	20.33	1.91	22.24	<=23.98	Pass
			6	21.22	1.91	23.13	<=23.98	Pass
			13	21.65	1.91	23.56	<=23.98	Pass
	2357.5	1	0	21.34	1.91	23.25	<=23.98	Pass
			6	20.27	1.91	22.18	<=23.98	Pass
			13	20.29	1.91	22.20	<=23.98	Pass
		12	0	20.27	1.91	22.18	<=23.98	Pass
			6	20.29	1.91	22.20	<=23.98	Pass
			13	20.35	1.91	22.26	<=23.98	Pass

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64QAM	2352.5	25	0	20.38	1.91	22.29	<=23.98	Pass	
			1	0	20.30	1.91	22.21	<=23.98	Pass
				13	20.66	1.91	22.57	<=23.98	Pass
				24	20.16	1.91	22.07	<=23.98	Pass
		12	0	19.34	1.91	21.25	<=23.98	Pass	
			6	19.28	1.91	21.19	<=23.98	Pass	
			13	19.11	1.91	21.02	<=23.98	Pass	
			25	0	19.17	1.91	21.08	<=23.98	Pass
		2355	1	0	20.00	1.91	21.91	<=23.98	Pass
				13	20.71	1.91	22.62	<=23.98	Pass
				24	20.19	1.91	22.10	<=23.98	Pass
				0	19.18	1.91	21.09	<=23.98	Pass
	12		6	19.45	1.91	21.36	<=23.98	Pass	
			13	19.20	1.91	21.11	<=23.98	Pass	
			25	0	19.24	1.91	21.15	<=23.98	Pass
			2357.5	1	0	20.42	1.91	22.33	<=23.98
	13				20.39	1.91	22.30	<=23.98	Pass
	24				20.41	1.91	22.32	<=23.98	Pass
	12			0	19.18	1.91	21.09	<=23.98	Pass
			6	19.26	1.91	21.17	<=23.98	Pass	
		13	19.26	1.91	21.17	<=23.98	Pass		
	25	0	19.27	1.91	21.18	<=23.98	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

## 1.2 B40b\_10MHz\_EIRP 1.2.1 Test Result

Band: 40b / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2355	1	0	21.53	1.91	23.44	<=23.98	Pass	
			25	21.76	1.91	23.67	<=23.98	Pass	
			49	21.31	1.91	23.22	<=23.98	Pass	
		25	0	21.20	1.91	23.11	<=23.98	Pass	
			13	21.29	1.91	23.20	<=23.98	Pass	
			25	21.43	1.91	23.34	<=23.98	Pass	
		50	0	21.35	1.91	23.26	<=23.98	Pass	
		2355	1	0	21.10	1.91	23.01	<=23.98	Pass
				25	21.46	1.91	23.37	<=23.98	Pass
				49	21.28	1.91	23.19	<=23.98	Pass
			25	0	21.18	1.91	23.09	<=23.98	Pass
				13	21.33	1.91	23.24	<=23.98	Pass
	25			21.39	1.91	23.30	<=23.98	Pass	
	50		0	21.36	1.91	23.23	<=23.98	Pass	
	2355		1	0	21.16	1.91	23.07	<=23.98	Pass
				25	21.37	1.91	23.28	<=23.98	Pass
		49		21.20	1.91	23.11	<=23.98	Pass	
		25	0	21.30	1.91	23.21	<=23.98	Pass	
			13	21.33	1.91	23.24	<=23.98	Pass	
			25	21.40	1.91	23.31	<=23.98	Pass	
	50	0	21.28	1.91	23.19	<=23.98	Pass		
	16QAM	2355	1	0	21.20	1.91	23.11	<=23.98	Pass
				25	21.65	1.91	23.56	<=23.98	Pass
				49	21.04	1.91	22.95	<=23.98	Pass
25			0	20.38	1.91	22.29	<=23.98	Pass	

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64QAM	2355	50	13	20.36	1.91	22.27	<=23.98	Pass		
			25	20.42	1.91	22.33	<=23.98	Pass		
			0	20.36	1.91	22.27	<=23.98	Pass		
		25	1	0	21.35	1.91	23.26	<=23.98	Pass	
				25	21.31	1.91	23.22	<=23.98	Pass	
				49	21.02	1.91	22.93	<=23.98	Pass	
			50	0	20.38	1.91	22.29	<=23.98	Pass	
				13	20.28	1.91	22.19	<=23.98	Pass	
				25	20.50	1.91	22.41	<=23.98	Pass	
	2355	1	0	20.31	1.91	22.22	<=23.98	Pass		
			25	21.39	1.91	23.30	<=23.98	Pass		
			49	21.67	1.91	23.58	<=23.98	Pass		
		25	0	20.41	1.91	22.32	<=23.98	Pass		
			13	20.37	1.91	22.28	<=23.98	Pass		
			25	20.39	1.91	22.30	<=23.98	Pass		
			50	0	20.40	1.91	22.31	<=23.98	Pass	
			2355	1	0	19.82	1.91	21.73	<=23.98	Pass
					25	20.84	1.91	22.75	<=23.98	Pass
	49	19.97			1.91	21.88	<=23.98	Pass		
	25	0		19.11	1.91	21.02	<=23.98	Pass		
		13		19.36	1.91	21.27	<=23.98	Pass		
		25		19.33	1.91	21.24	<=23.98	Pass		
		50		0	19.28	1.91	21.19	<=23.98	Pass	
		2355		1	0	20.33	1.91	22.24	<=23.98	Pass
25					20.84	1.91	22.75	<=23.98	Pass	
49	19.77		1.91		21.68	<=23.98	Pass			
25	0		19.22	1.91	21.13	<=23.98	Pass			
	13		19.38	1.91	21.29	<=23.98	Pass			
	25		19.37	1.91	21.28	<=23.98	Pass			
	50		0	19.31	1.91	21.22	<=23.98	Pass		
	2355		1	0	19.75	1.91	21.66	<=23.98	Pass	
				25	20.83	1.91	22.74	<=23.98	Pass	
49		19.77		1.91	21.68	<=23.98	Pass			
25		0	19.22	1.91	21.13	<=23.98	Pass			
		13	19.39	1.91	21.30	<=23.98	Pass			
		25	19.37	1.91	21.28	<=23.98	Pass			
		50	0	19.27	1.91	21.18	<=23.98	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

## 2. Frequency Stability

### 2.1 B40b\_5MHz

#### 2.1.1 Test Result

Band: 40b / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	

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QPSK	2352.5	25	0	20	3.23	10.715	0.0046	-2.5 to 2.5	Pass	
					3.80	0.844	0.0004	-2.5 to 2.5	Pass	
					4.37	7.811	0.0033	-2.5 to 2.5	Pass	
				-30	3.80	8.297	0.0035	-2.5 to 2.5	Pass	
					-20	3.80	3.605	0.0015	-2.5 to 2.5	Pass
					-10	3.80	1.931	0.0008	-2.5 to 2.5	Pass
				0	3.80	7.138	0.0030	-2.5 to 2.5	Pass	
					10	3.80	9.298	0.0040	-2.5 to 2.5	Pass
					30	3.80	3.219	0.0014	-2.5 to 2.5	Pass
	2355	25	0	20	3.23	7.296	0.0031	-2.5 to 2.5	Pass	
					3.80	4.406	0.0019	-2.5 to 2.5	Pass	
					4.37	1.287	0.0005	-2.5 to 2.5	Pass	
				-30	3.80	-1.760	-0.0007	-2.5 to 2.5	Pass	
					-20	3.80	-1.373	-0.0006	-2.5 to 2.5	Pass
					-10	3.80	-0.057	0.0000	-2.5 to 2.5	Pass
				0	3.80	-5.536	-0.0024	-2.5 to 2.5	Pass	
					10	3.80	4.563	0.0019	-2.5 to 2.5	Pass
					30	3.80	-2.832	-0.0012	-2.5 to 2.5	Pass
2357.5	25	0	20	3.23	4.950	0.0021	-2.5 to 2.5	Pass		
				3.80	10.700	0.0045	-2.5 to 2.5	Pass		
				4.37	3.176	0.0013	-2.5 to 2.5	Pass		
			-30	3.80	1.144	0.0005	-2.5 to 2.5	Pass		
				-20	3.80	-0.916	-0.0004	-2.5 to 2.5	Pass	
				-10	3.80	-1.988	-0.0008	-2.5 to 2.5	Pass	
			0	3.80	8.254	0.0035	-2.5 to 2.5	Pass		
				10	3.80	10.700	0.0045	-2.5 to 2.5	Pass	
				30	3.80	10.214	0.0043	-2.5 to 2.5	Pass	
16QAM	2352.5	25	0	20	3.23	2.232	0.0009	-2.5 to 2.5	Pass	
					3.80	8.984	0.0038	-2.5 to 2.5	Pass	
					4.37	2.074	0.0009	-2.5 to 2.5	Pass	
				-30	3.80	10.786	0.0046	-2.5 to 2.5	Pass	
					-20	3.80	10.428	0.0044	-2.5 to 2.5	Pass
					-10	3.80	11.101	0.0047	-2.5 to 2.5	Pass
				0	3.80	12.202	0.0052	-2.5 to 2.5	Pass	
					10	3.80	9.756	0.0041	-2.5 to 2.5	Pass
					30	3.80	9.813	0.0042	-2.5 to 2.5	Pass
	2355	25	0	20	3.80	1.917	0.0008	-2.5 to 2.5	Pass	
					4.37	3.948	0.0017	-2.5 to 2.5	Pass	
					3.80	-0.529	-0.0002	-2.5 to 2.5	Pass	
				-30	3.80	-3.236	-0.0014	-2.5 to 2.5	Pass	
					-20	3.80	-4.406	-0.0019	-2.5 to 2.5	Pass
					-10	3.80	-3.290	-0.0014	-2.5 to 2.5	Pass
				0	3.80	4.148	0.0018	-2.5 to 2.5	Pass	
					10	3.80	5.808	0.0025	-2.5 to 2.5	Pass
					30	3.80	-1.760	-0.0007	-2.5 to 2.5	Pass
40	3.80	-3.090	-0.0013	-2.5 to 2.5	Pass					

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	2357.5	25	0	50	3.80	4.549	0.0019	-2.5 to 2.5	Pass
				20	3.23	5.951	0.0025	-2.5 to 2.5	Pass
					3.80	9.542	0.0040	-2.5 to 2.5	Pass
					4.37	6.580	0.0028	-2.5 to 2.5	Pass
				-30	3.80	11.344	0.0048	-2.5 to 2.5	Pass
				-20	3.80	12.617	0.0054	-2.5 to 2.5	Pass
				-10	3.80	8.440	0.0036	-2.5 to 2.5	Pass
				0	3.80	1.245	0.0005	-2.5 to 2.5	Pass
				10	3.80	10.457	0.0044	-2.5 to 2.5	Pass
				30	3.80	3.076	0.0013	-2.5 to 2.5	Pass
				40	3.80	9.685	0.0041	-2.5 to 2.5	Pass
				50	3.80	1.688	0.0007	-2.5 to 2.5	Pass
				64QAM	2352.5	25	0	20	3.23
3.80	1.860	0.0008	-2.5 to 2.5						Pass
4.37	1.788	0.0008	-2.5 to 2.5						Pass
-30	3.80	10.085	0.0043					-2.5 to 2.5	Pass
-20	3.80	8.941	0.0038					-2.5 to 2.5	Pass
-10	3.80	8.912	0.0038					-2.5 to 2.5	Pass
0	3.80	11.516	0.0049					-2.5 to 2.5	Pass
10	3.80	2.847	0.0012					-2.5 to 2.5	Pass
30	3.80	8.354	0.0036					-2.5 to 2.5	Pass
40	3.80	7.210	0.0031					-2.5 to 2.5	Pass
50	3.80	2.031	0.0009					-2.5 to 2.5	Pass
2355	25	0	20					3.23	-1.888
					3.80	-2.804	-0.0012	-2.5 to 2.5	Pass
					4.37	-3.236	-0.0014	-2.5 to 2.5	Pass
			-30		3.80	-4.249	-0.0018	-2.5 to 2.5	Pass
			-20		3.80	3.490	0.0015	-2.5 to 2.5	Pass
			-10		3.80	7.310	0.0031	-2.5 to 2.5	Pass
			0		3.80	4.463	0.0019	-2.5 to 2.5	Pass
			10		3.80	-4.163	-0.0018	-2.5 to 2.5	Pass
			30		3.80	2.818	0.0012	-2.5 to 2.5	Pass
			40		3.80	-4.835	-0.0021	-2.5 to 2.5	Pass
			50		3.80	7.625	0.0032	-2.5 to 2.5	Pass
			2357.5		25	0	20	3.23	6.280
3.80	3.519	0.0015						-2.5 to 2.5	Pass
4.37	9.255	0.0039		-2.5 to 2.5				Pass	
-30	3.80	9.656		0.0041			-2.5 to 2.5	Pass	
-20	3.80	3.176		0.0013			-2.5 to 2.5	Pass	
-10	3.80	6.866		0.0029			-2.5 to 2.5	Pass	
0	3.80	4.406		0.0019			-2.5 to 2.5	Pass	
10	3.80	7.696		0.0033			-2.5 to 2.5	Pass	
30	3.80	7.896		0.0033			-2.5 to 2.5	Pass	
40	3.80	8.769		0.0037			-2.5 to 2.5	Pass	
50	3.80	2.003		0.0008			-2.5 to 2.5	Pass	

2.2 B40b\_10MHz

2.2.1 Test Result

Band: 40b / Bandwidth: 10MHz							
Modulation	Frequency	RB Allocation	Temp.	Voltage	Freq. Error	Freq. vs. Rated (ppm)	Verdict



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	(MHz)	Size	Offset	(°C)	(VDC)	(Hz)	Result	Limit		
QPSK	2355	50	0	20	3.23	-1.516	-0.0006	-2.5 to 2.5	Pass	
					3.80	-4.821	-0.0020	-2.5 to 2.5	Pass	
					4.37	3.262	0.0014	-2.5 to 2.5	Pass	
				-30	3.80	-5.021	-0.0021	-2.5 to 2.5	Pass	
					-20	3.80	-5.565	-0.0024	-2.5 to 2.5	Pass
						-10	3.80	4.063	0.0017	-2.5 to 2.5
				0	3.80	6.280	0.0027	-2.5 to 2.5	Pass	
					10	3.80	5.465	0.0023	-2.5 to 2.5	Pass
					30	3.80	-4.220	-0.0018	-2.5 to 2.5	Pass
	2355	50	0	20	3.80	5.150	0.0022	-2.5 to 2.5	Pass	
					50	3.80	-3.176	-0.0013	-2.5 to 2.5	Pass
					-30	3.23	-3.433	-0.0015	-2.5 to 2.5	Pass
				-20		3.80	4.764	0.0020	-2.5 to 2.5	Pass
						4.37	3.304	0.0014	-2.5 to 2.5	Pass
				-10	3.80	-3.333	-0.0014	-2.5 to 2.5	Pass	
					3.80	3.777	0.0016	-2.5 to 2.5	Pass	
					0	3.80	-3.619	-0.0015	-2.5 to 2.5	Pass
				2355	50	0	20	3.80	-4.034	-0.0017
10	3.80	-3.805	-0.0016					-2.5 to 2.5	Pass	
30	3.80	6.938	0.0029					-2.5 to 2.5	Pass	
-30	3.80	6.609	0.0028				-2.5 to 2.5	Pass		
	-20	3.80	4.549				0.0019	-2.5 to 2.5	Pass	
		-10	3.80				5.479	0.0023	-2.5 to 2.5	Pass
0	3.80	-1.259	-0.0005				-2.5 to 2.5	Pass		
	10	3.80	5.107				0.0022	-2.5 to 2.5	Pass	
	30	3.80	-1.731				-0.0007	-2.5 to 2.5	Pass	
2355	50	0	20	4.892	0.0021	-2.5 to 2.5	Pass			
				50	3.80	7.567	0.0032	-2.5 to 2.5	Pass	
				-30	3.23	-3.748	-0.0016	-2.5 to 2.5	Pass	
			-20		3.80	6.266	0.0027	-2.5 to 2.5	Pass	
					4.37	4.249	0.0018	-2.5 to 2.5	Pass	
			-10	3.80	-2.117	-0.0009	-2.5 to 2.5	Pass		
				3.80	5.951	0.0025	-2.5 to 2.5	Pass		
				0	3.80	5.479	0.0023	-2.5 to 2.5	Pass	
			2355	50	0	20	3.80	-1.259	-0.0005	-2.5 to 2.5
10	3.80	5.107					0.0022	-2.5 to 2.5	Pass	
30	3.80	-1.731					-0.0007	-2.5 to 2.5	Pass	
-30	4.892	0.0021				-2.5 to 2.5	Pass			
	-20	3.80				7.567	0.0032	-2.5 to 2.5	Pass	
		-10				3.80	5.479	0.0023	-2.5 to 2.5	Pass
0	3.80	-1.259				-0.0005	-2.5 to 2.5	Pass		
	10	3.80				5.107	0.0022	-2.5 to 2.5	Pass	
	30	3.80				-1.731	-0.0007	-2.5 to 2.5	Pass	
16QAM	2355	50	0	20	4.148	0.0018	-2.5 to 2.5	Pass		
					3.80	3.033	0.0013	-2.5 to 2.5	Pass	
					4.37	-3.104	-0.0013	-2.5 to 2.5	Pass	
				-30	3.80	3.236	0.0014	-2.5 to 2.5	Pass	
					-20	3.80	-4.077	-0.0017	-2.5 to 2.5	Pass
						-10	3.80	3.619	0.0015	-2.5 to 2.5
				0	3.80	2.890	0.0012	-2.5 to 2.5	Pass	
					10	3.80	-4.520	-0.0019	-2.5 to 2.5	Pass
					30	3.80	-2.646	-0.0011	-2.5 to 2.5	Pass
2355	50	0	20	3.80	-5.407	-0.0023	-2.5 to 2.5	Pass		
				50	3.80	4.249	0.0018	-2.5 to 2.5	Pass	
				-30	3.23	-2.704	-0.0011	-2.5 to 2.5	Pass	
			-20		3.80	-4.463	-0.0019	-2.5 to 2.5	Pass	
					4.37	-3.047	-0.0013	-2.5 to 2.5	Pass	
			-10	3.80	5.393	0.0023	-2.5 to 2.5	Pass		
				3.80	5.822	0.0025	-2.5 to 2.5	Pass		
				0	3.80	-4.206	-0.0018	-2.5 to 2.5	Pass	
			0	3.80	4.706	0.0020	-2.5 to 2.5	Pass		
10	3.80	2.031		0.0009	-2.5 to 2.5	Pass				
30	3.80	5.522		0.0023	-2.5 to 2.5	Pass				

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	2355	50	0	40	3.80	5.636	0.0024	-2.5 to 2.5	Pass			
				50	3.80	-0.958	-0.0004	-2.5 to 2.5	Pass			
				20	3.23	-3.576	-0.0015	-2.5 to 2.5	Pass			
					3.80	7.195	0.0031	-2.5 to 2.5	Pass			
					4.37	5.450	0.0023	-2.5 to 2.5	Pass			
				-30	3.80	-4.220	-0.0018	-2.5 to 2.5	Pass			
				-20	3.80	2.232	0.0009	-2.5 to 2.5	Pass			
				-10	3.80	3.104	0.0013	-2.5 to 2.5	Pass			
				0	3.80	-5.565	-0.0024	-2.5 to 2.5	Pass			
				10	3.80	-3.262	-0.0014	-2.5 to 2.5	Pass			
				30	3.80	-3.347	-0.0014	-2.5 to 2.5	Pass			
				40	3.80	2.332	0.0010	-2.5 to 2.5	Pass			
				50	3.80	6.967	0.0030	-2.5 to 2.5	Pass			
				64QAM	2355	50	0	20	3.23	-4.892	-0.0021	-2.5 to 2.5
3.80	1.130	0.0005	-2.5 to 2.5						Pass			
4.37	-1.330	-0.0006	-2.5 to 2.5						Pass			
-30	3.80	-3.505	-0.0015					-2.5 to 2.5	Pass			
-20	3.80	-3.562	-0.0015					-2.5 to 2.5	Pass			
-10	3.80	-3.347	-0.0014					-2.5 to 2.5	Pass			
0	3.80	0.286	0.0001					-2.5 to 2.5	Pass			
10	3.80	-2.031	-0.0009					-2.5 to 2.5	Pass			
30	3.80	-2.947	-0.0013					-2.5 to 2.5	Pass			
40	3.80	-1.659	-0.0007					-2.5 to 2.5	Pass			
50	3.80	-5.679	-0.0024					-2.5 to 2.5	Pass			
2355	50	0	20					3.23	-5.035	-0.0021	-2.5 to 2.5	Pass
								3.80	-2.618	-0.0011	-2.5 to 2.5	Pass
								4.37	0.129	0.0001	-2.5 to 2.5	Pass
			-30		3.80	-0.629	-0.0003	-2.5 to 2.5	Pass			
			-20		3.80	-3.390	-0.0014	-2.5 to 2.5	Pass			
			-10		3.80	0.629	0.0003	-2.5 to 2.5	Pass			
			0		3.80	-3.505	-0.0015	-2.5 to 2.5	Pass			
			10		3.80	-1.402	-0.0006	-2.5 to 2.5	Pass			
			30		3.80	-3.676	-0.0016	-2.5 to 2.5	Pass			
			40		3.80	0.029	0.0000	-2.5 to 2.5	Pass			
2355	50	0	20		3.23	0.587	0.0002	-2.5 to 2.5	Pass			
					3.80	-4.220	-0.0018	-2.5 to 2.5	Pass			
					4.37	-3.476	-0.0015	-2.5 to 2.5	Pass			
			-30	3.80	0.744	0.0003	-2.5 to 2.5	Pass				
			-20	3.80	-4.563	-0.0019	-2.5 to 2.5	Pass				
			-10	3.80	-0.172	-0.0001	-2.5 to 2.5	Pass				
			0	3.80	-1.988	-0.0008	-2.5 to 2.5	Pass				
			10	3.80	-1.717	-0.0007	-2.5 to 2.5	Pass				
			30	3.80	0.858	0.0004	-2.5 to 2.5	Pass				
			40	3.80	0.930	0.0004	-2.5 to 2.5	Pass				
50	3.80	1.459	0.0006	-2.5 to 2.5	Pass							

### 3. Modulation Characteristics

#### 3.1 B40b\_5MHz

##### 3.1.1 Test Result



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Band: 40b / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2355	25	0	Refer To Test Graph		Pass
16QAM	2355	25	0	Refer To Test Graph		Pass
64QAM	2355	25	0	Refer To Test Graph		Pass



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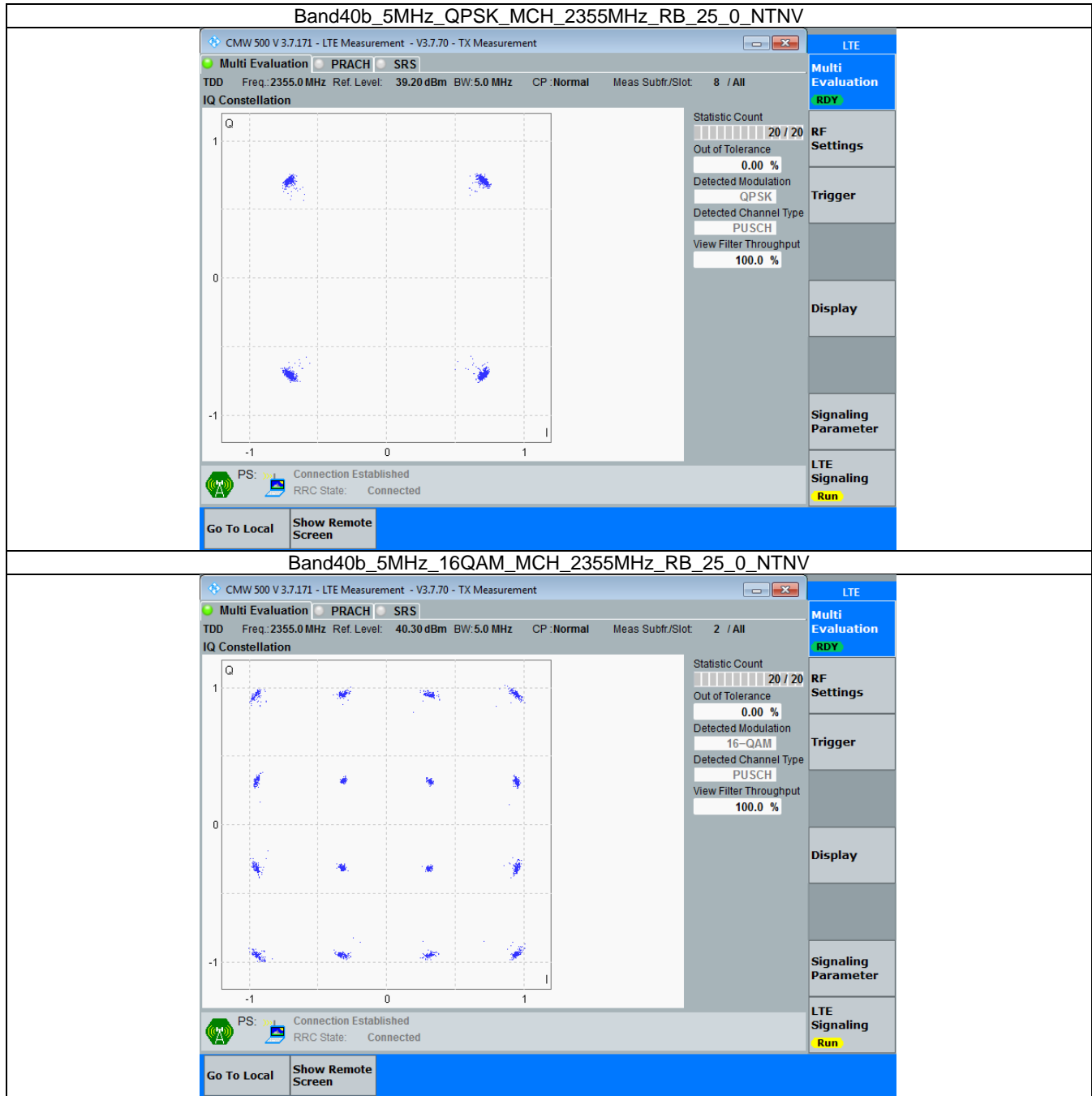
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3.1.2 Test Graph

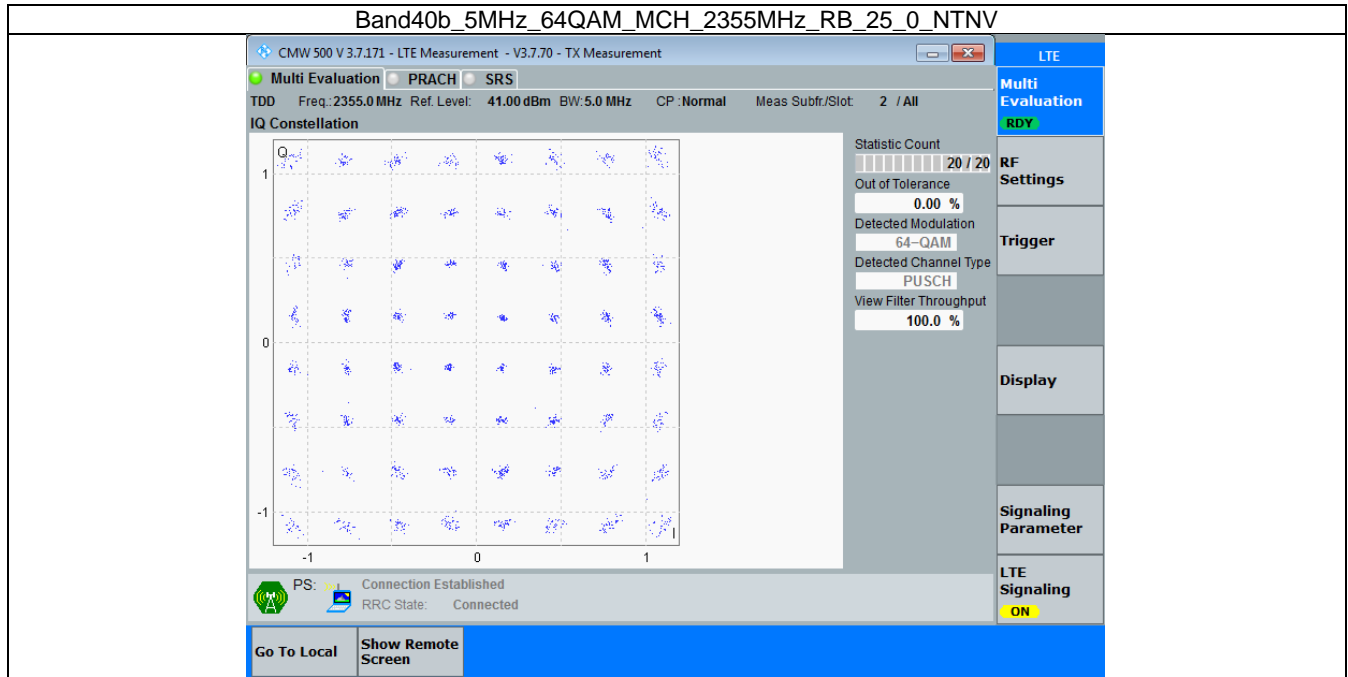


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3.2 B40b\_10MHz

3.2.1 Test Result

Band: 40b / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2355	50	0	Refer To Test Graph		Pass
16QAM	2355	50	0	Refer To Test Graph		Pass
64QAM	2355	50	0	Refer To Test Graph		Pass

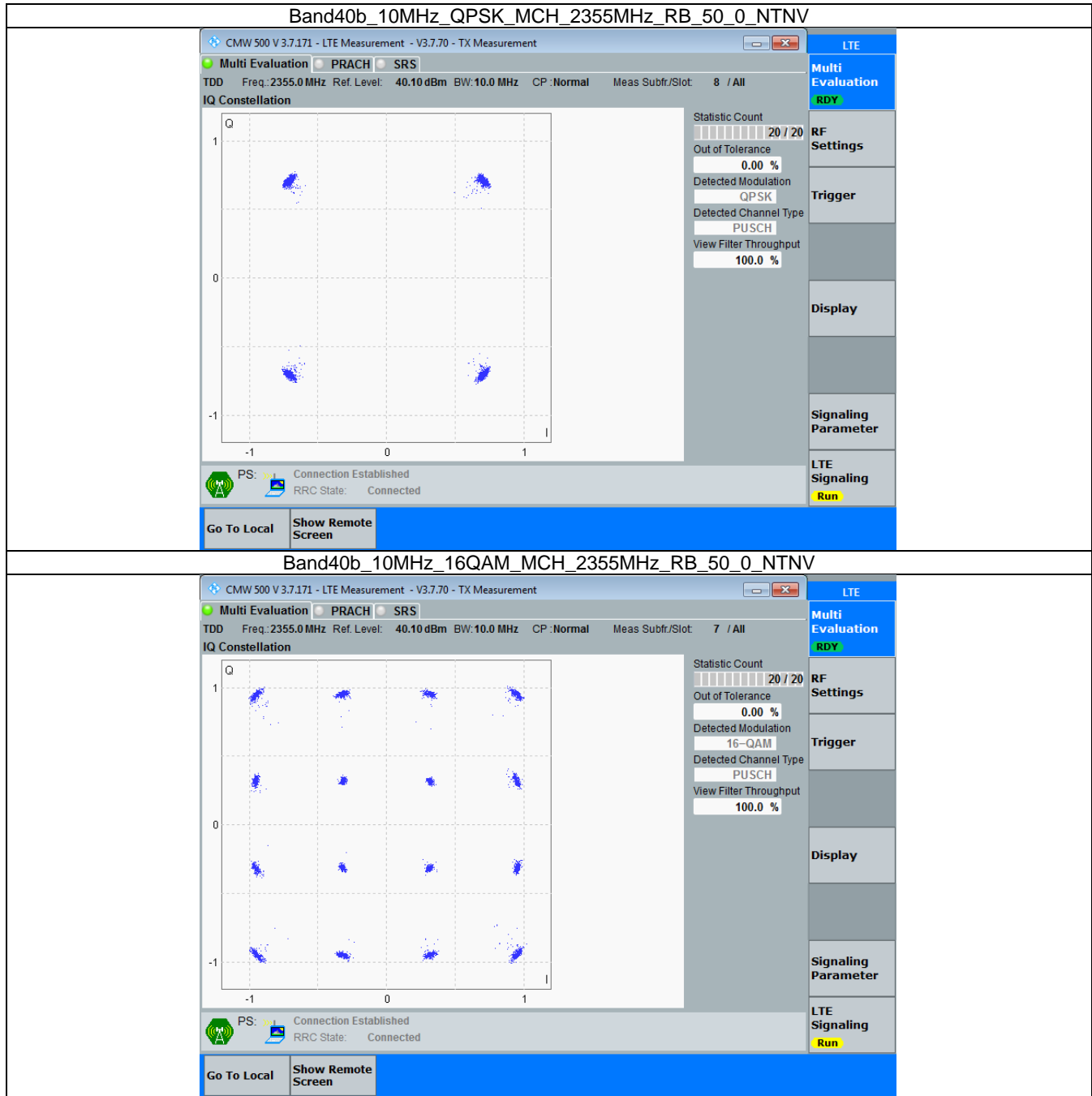


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3.2.2 Test Graph

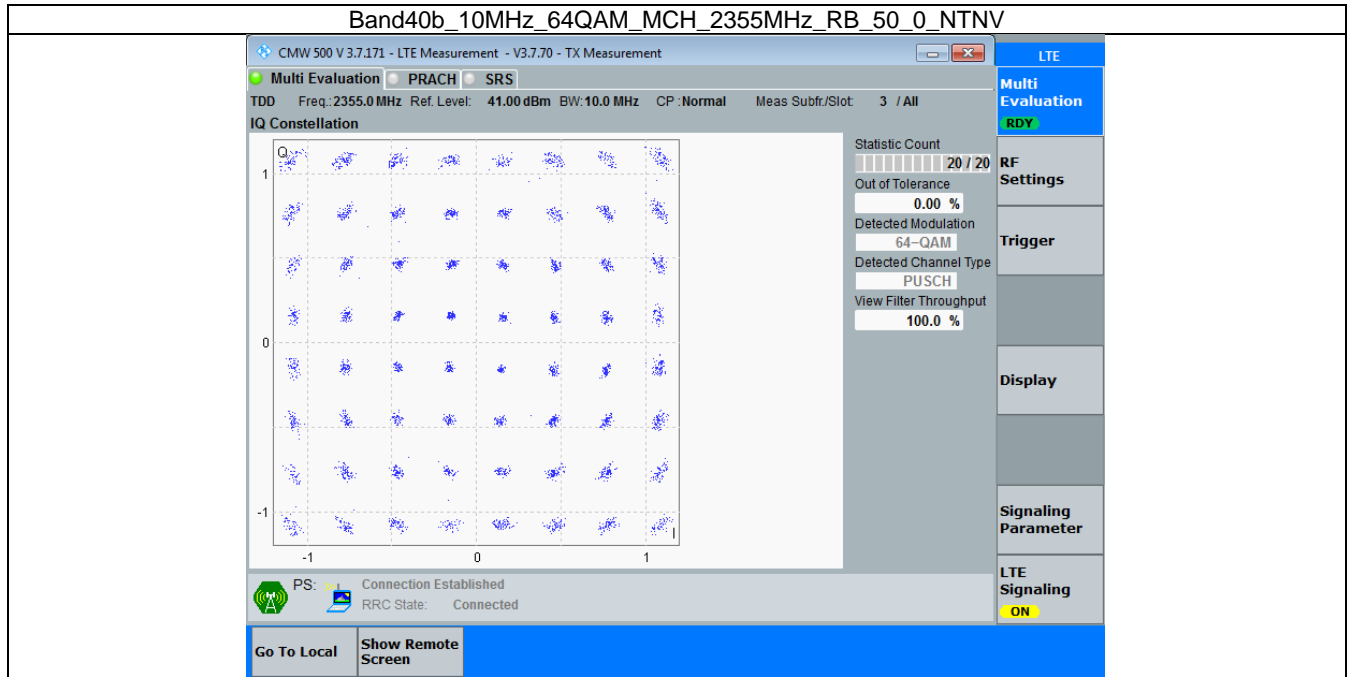


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4. 99% & 26dB Bandwidth

4.1 Band40b\_OBW

4.1.1 Test Result

Band: 40b / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2352.5	25	0	4.552	Pass
		2355	25	0	4.551	Pass
		2357.5	25	0	4.563	Pass
	16QAM	2352.5	25	0	4.566	Pass
		2355	25	0	4.577	Pass
		2357.5	25	0	4.542	Pass
	64QAM	2352.5	25	0	4.549	Pass
		2355	25	0	4.561	Pass
		2357.5	25	0	4.537	Pass
10	QPSK	2355	50	0	9.073	Pass
		2355	50	0	9.071	Pass
		2355	50	0	9.138	Pass
	16QAM	2355	50	0	9.104	Pass
		2355	50	0	9.038	Pass
		2355	50	0	9.076	Pass
	64QAM	2355	50	0	9.011	Pass
		2355	50	0	9.069	Pass
		2355	50	0	9.042	Pass

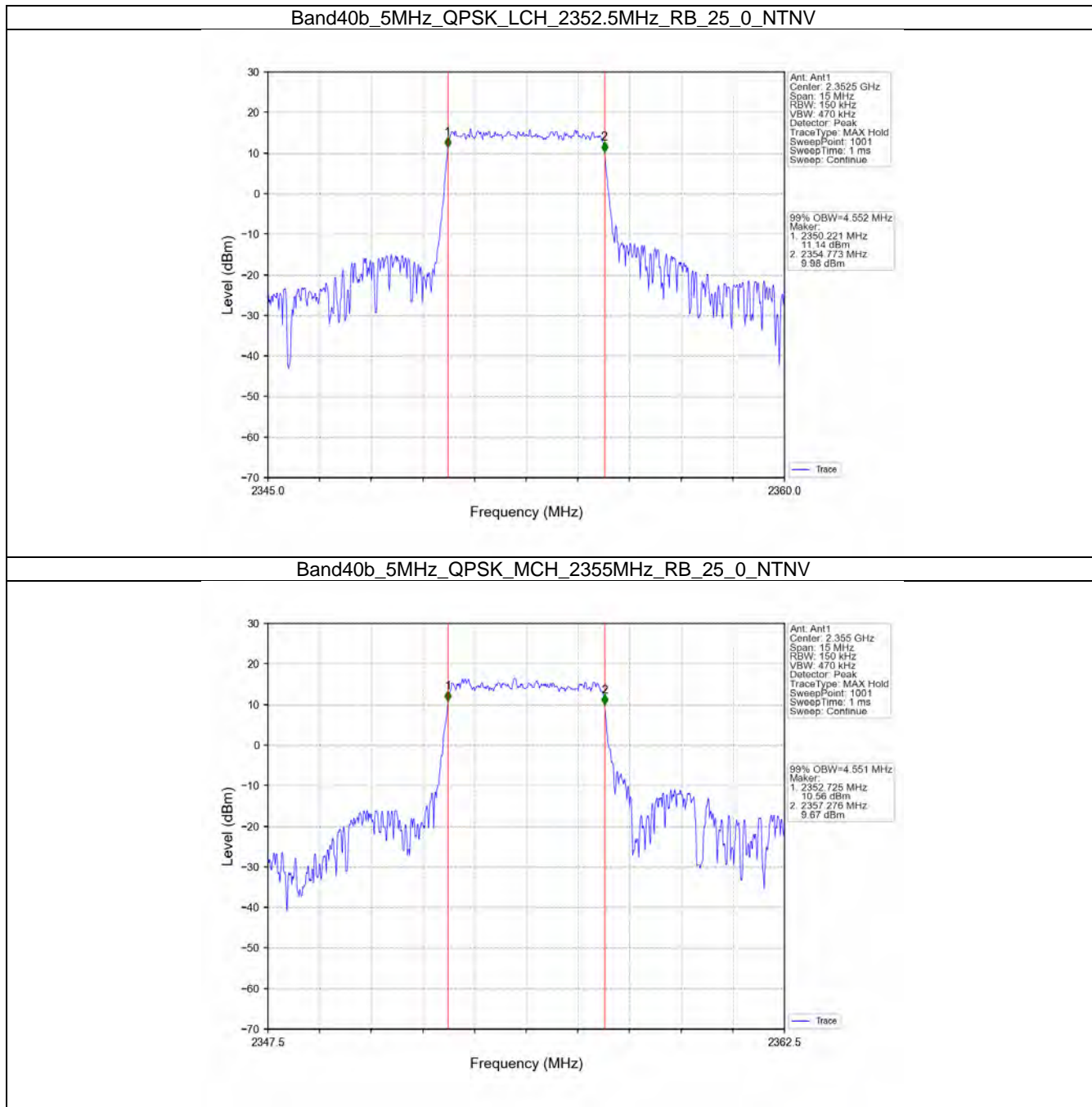


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4.1.2 Test Graph



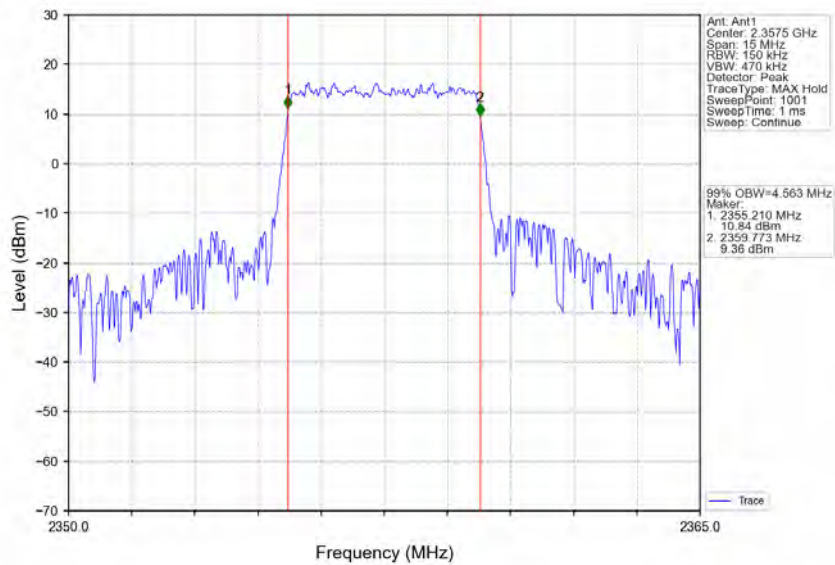
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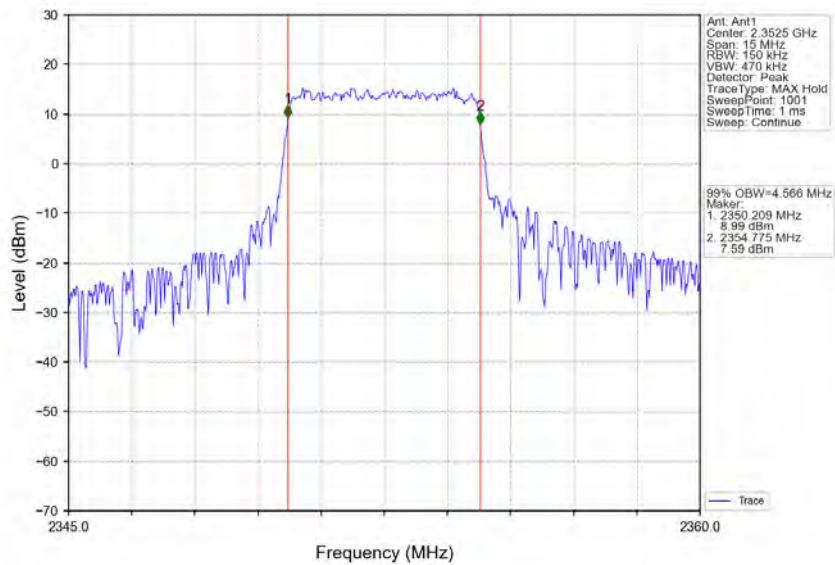
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Band40b\_5MHz\_QPSK\_HCH\_2357.5MHz\_RB\_25\_0\_NTNV



Band40b\_5MHz\_16QAM\_LCH\_2352.5MHz\_RB\_25\_0\_NTNV



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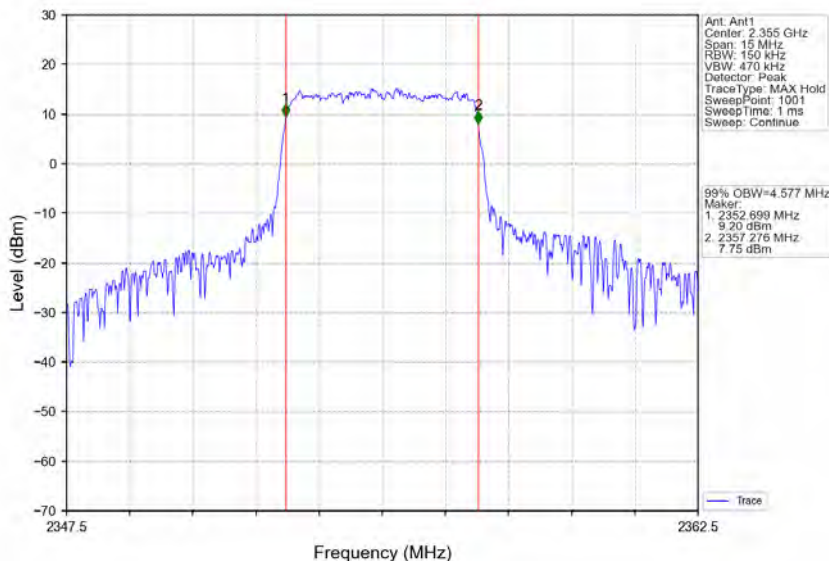
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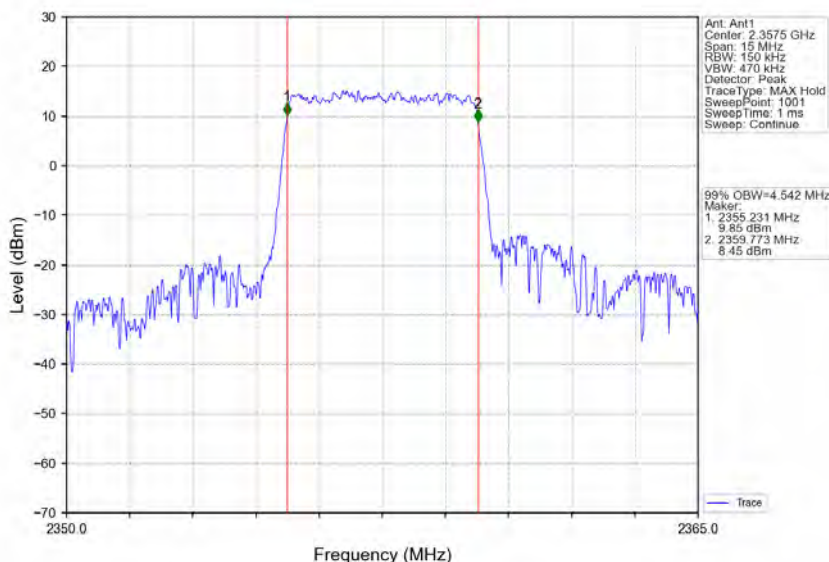
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Band40b\_5MHz\_16QAM\_MCH\_2355MHz\_RB\_25\_0\_NTNV



Band40b\_5MHz\_16QAM\_HCH\_2357.5MHz\_RB\_25\_0\_NTNV



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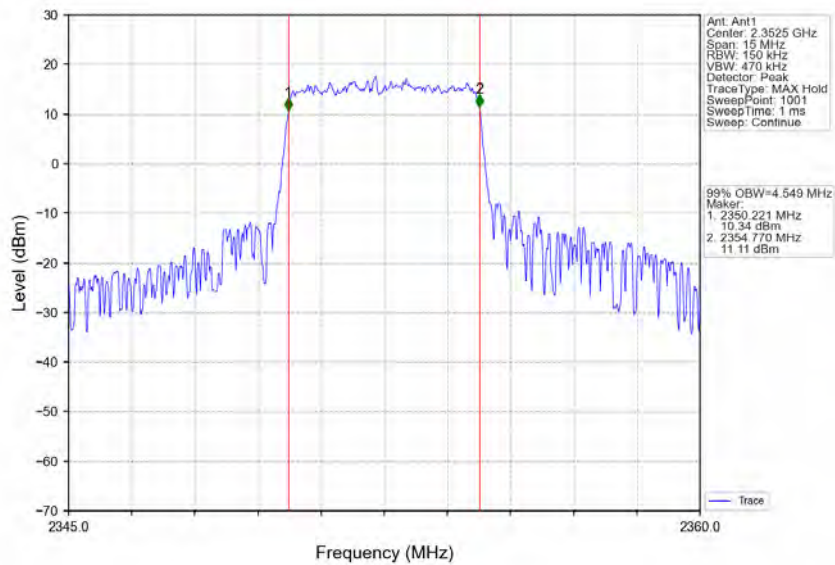
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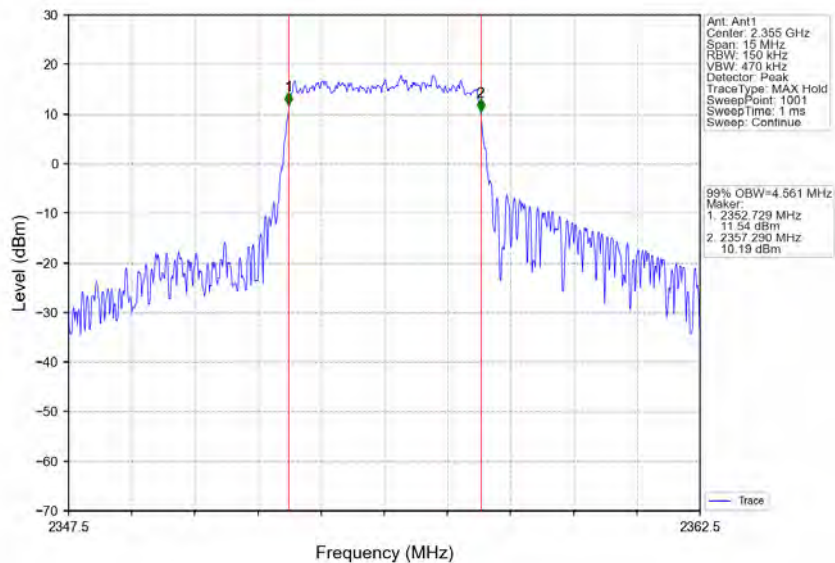
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Band40b\_5MHz\_64QAM\_LCH\_2352.5MHz\_RB\_25\_0\_NTNV



Band40b\_5MHz\_64QAM\_MCH\_2355MHz\_RB\_25\_0\_NTNV

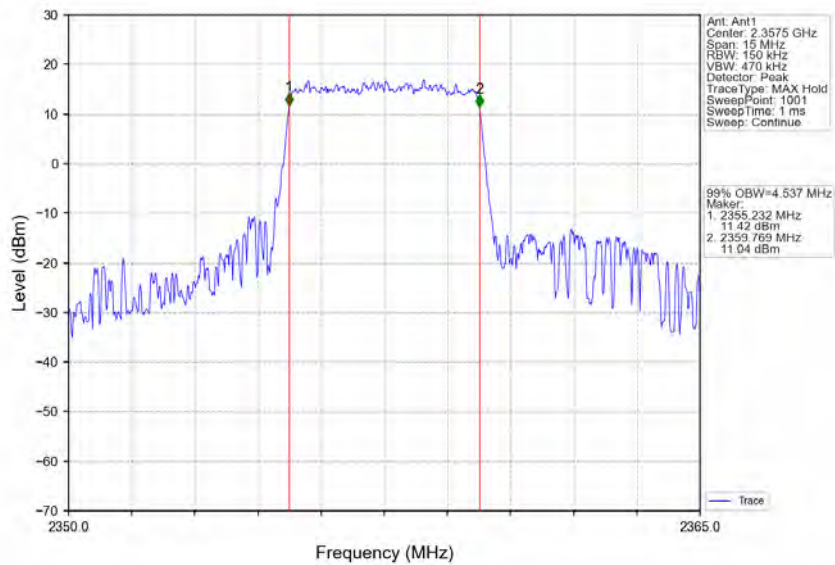


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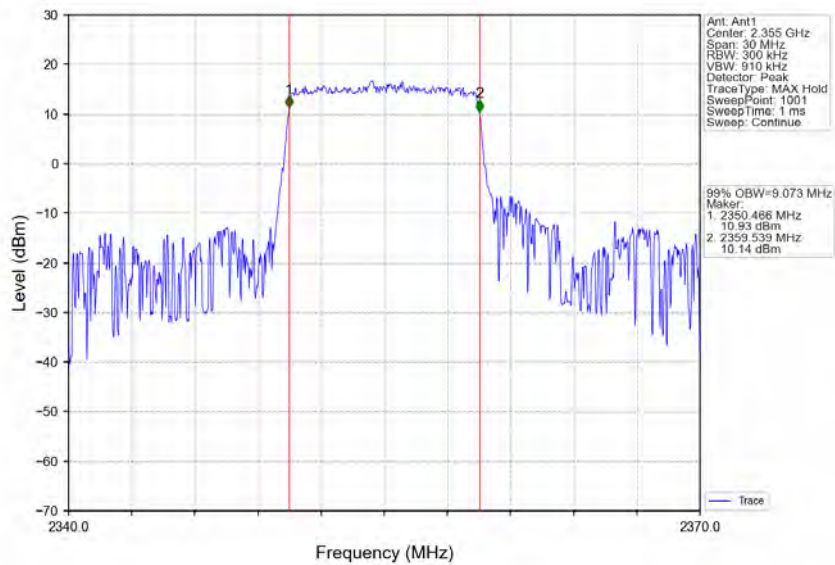
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Band40b\_5MHz\_64QAM\_HCH\_2357.5MHz\_RB\_25\_0\_NTNV



Band40b\_10MHz\_QPSK\_LCH\_2355MHz\_RB\_50\_0\_NTNV



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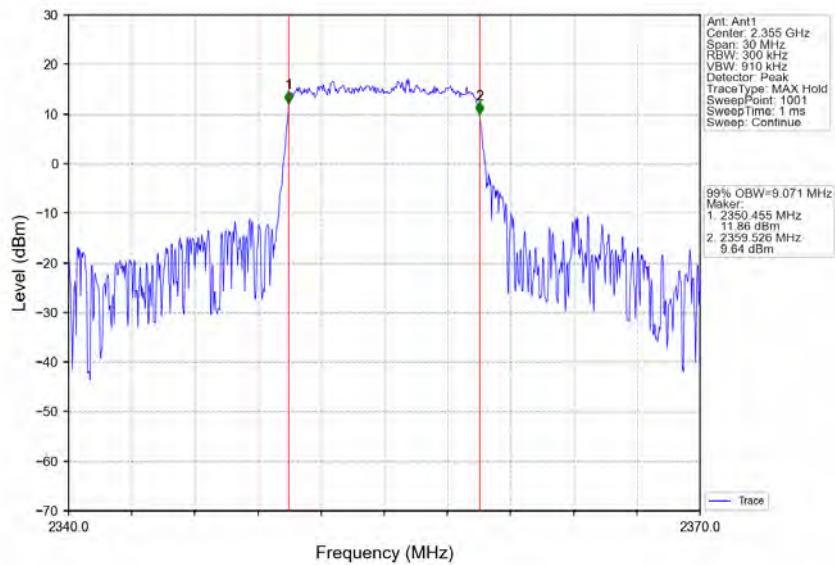
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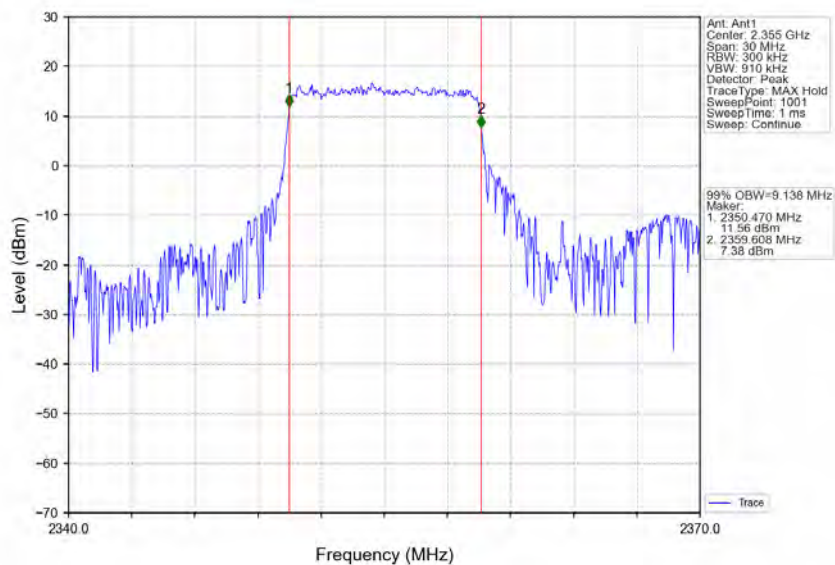
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Band40b\_10MHz\_QPSK\_MCH\_2355MHz\_RB\_50\_0\_NTNV



Band40b\_10MHz\_QPSK\_HCH\_2355MHz\_RB\_50\_0\_NTNV



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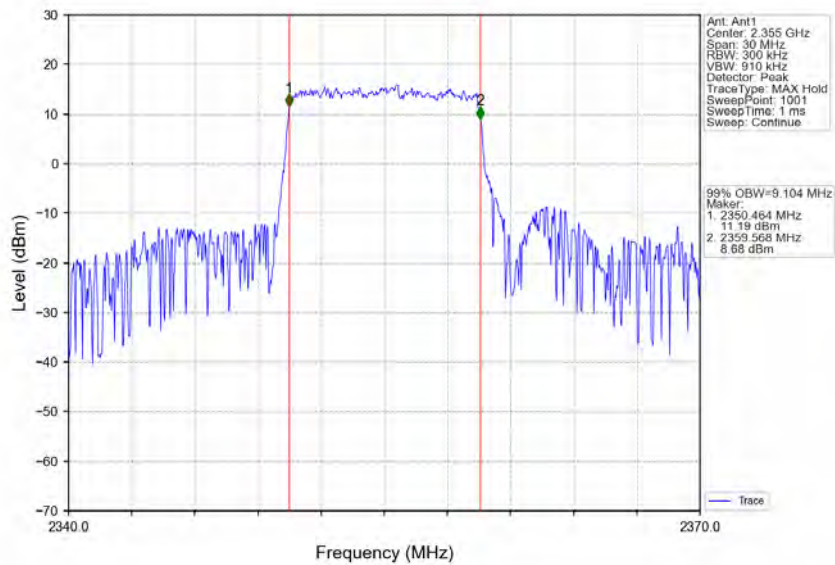
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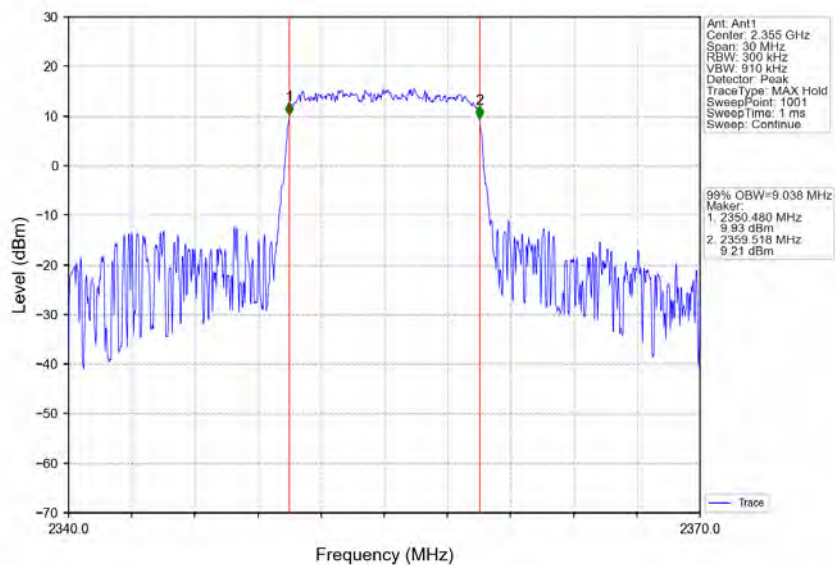
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Band40b\_10MHz\_16QAM\_LCH\_2355MHz\_RB\_50\_0\_NTNV



Band40b\_10MHz\_16QAM\_MCH\_2355MHz\_RB\_50\_0\_NTNV



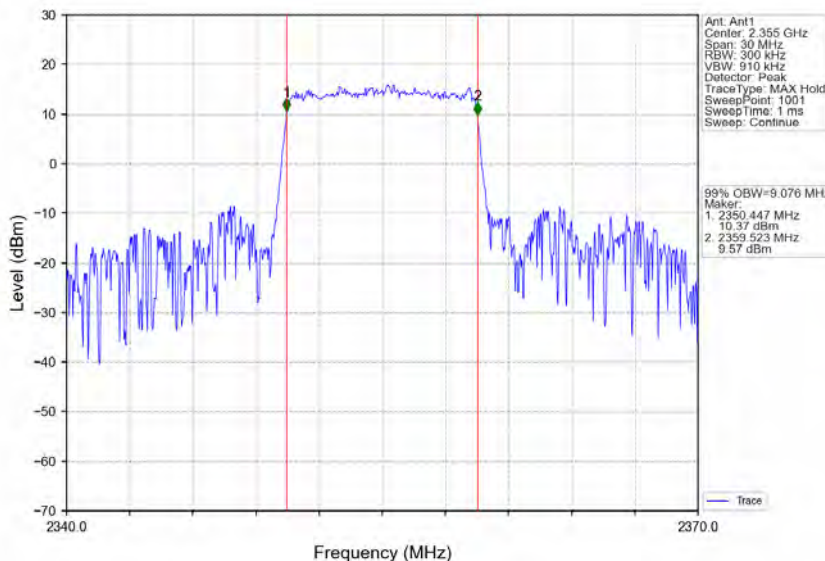
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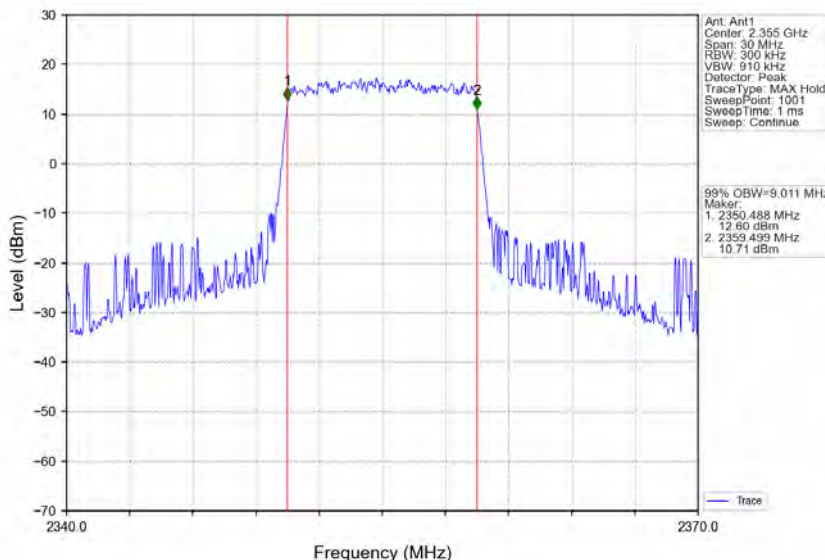
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Band40b\_10MHz\_64QAM\_LCH\_2355MHz\_RB\_50\_0\_NTNV



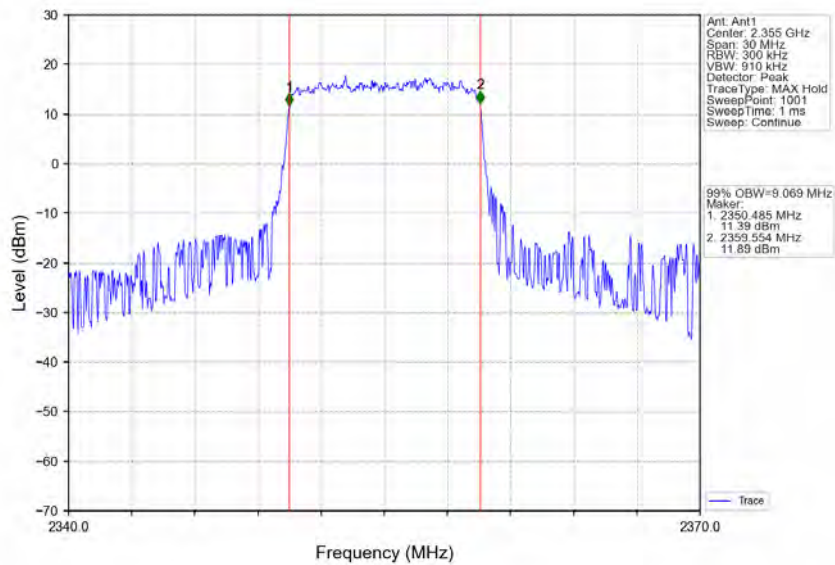
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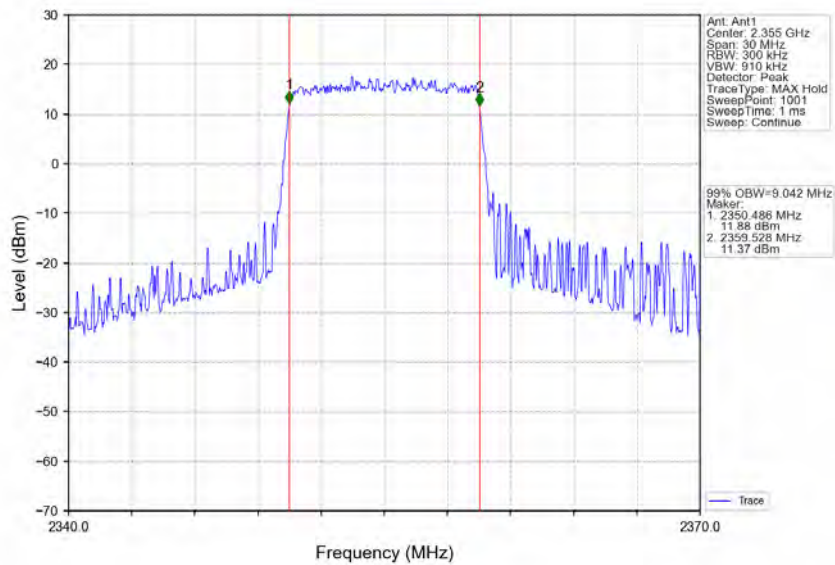
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Band40b\_10MHz\_64QAM\_HCH\_2355MHz\_RB\_50\_0\_NTNV



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4.2 Band40b\_XDB

4.2.1 Test Result

Band: 40b / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2352.5	25	0	5.144	Pass
		2355	25	0	5.410	Pass
		2357.5	25	0	5.087	Pass
	16QAM	2352.5	25	0	6.445	Pass
		2355	25	0	5.484	Pass
		2357.5	25	0	5.063	Pass
	64QAM	2352.5	25	0	5.311	Pass
		2355	25	0	5.927	Pass
		2357.5	25	0	5.123	Pass
10	QPSK	2355	50	0	11.805	Pass
		2355	50	0	10.809	Pass
		2355	50	0	12.131	Pass
	16QAM	2355	50	0	13.638	Pass
		2355	50	0	10.014	Pass
		2355	50	0	16.277	Pass
	64QAM	2355	50	0	10.034	Pass
		2355	50	0	10.699	Pass
		2355	50	0	10.769	Pass



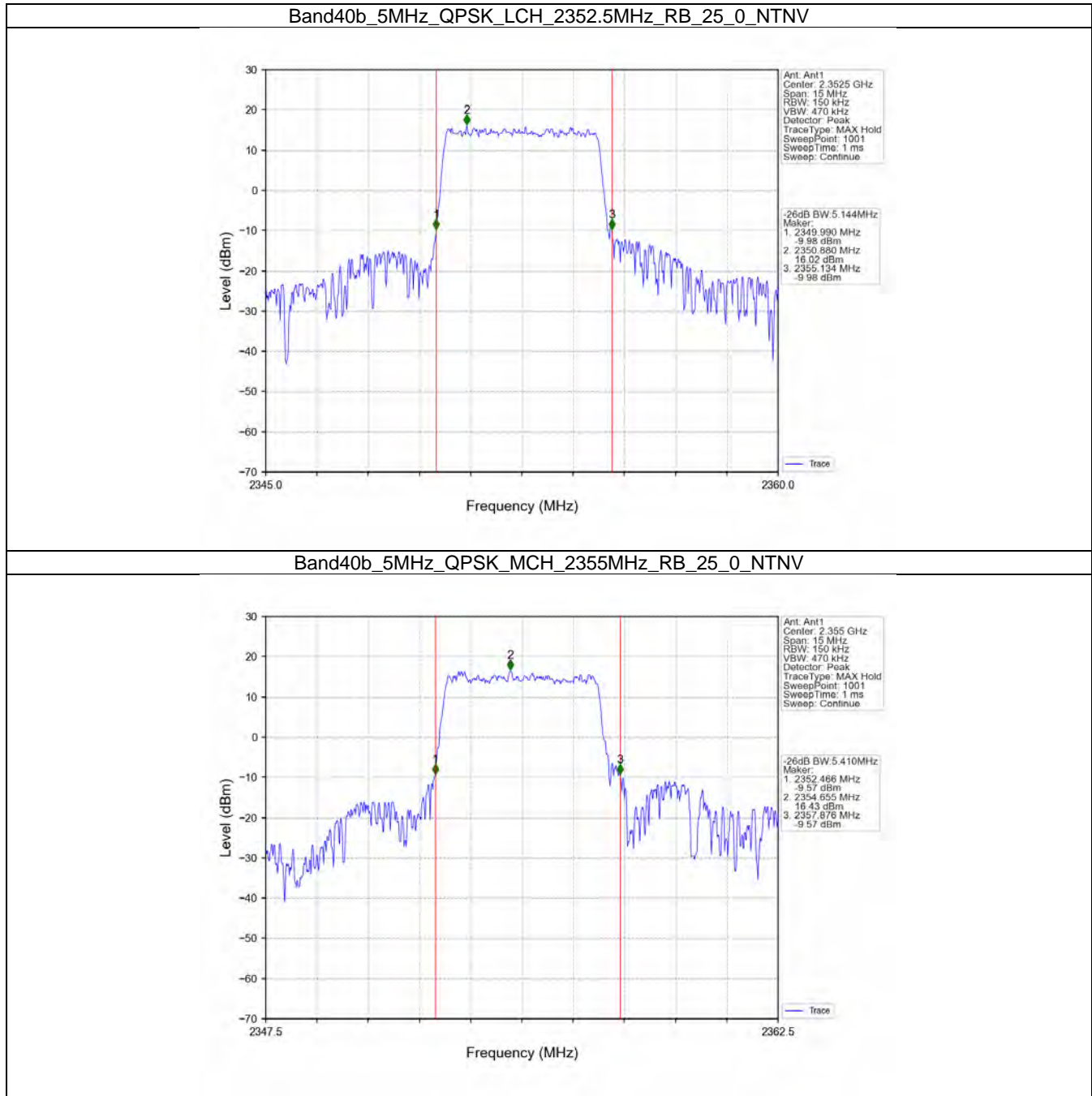
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4.2.2 Test Graph



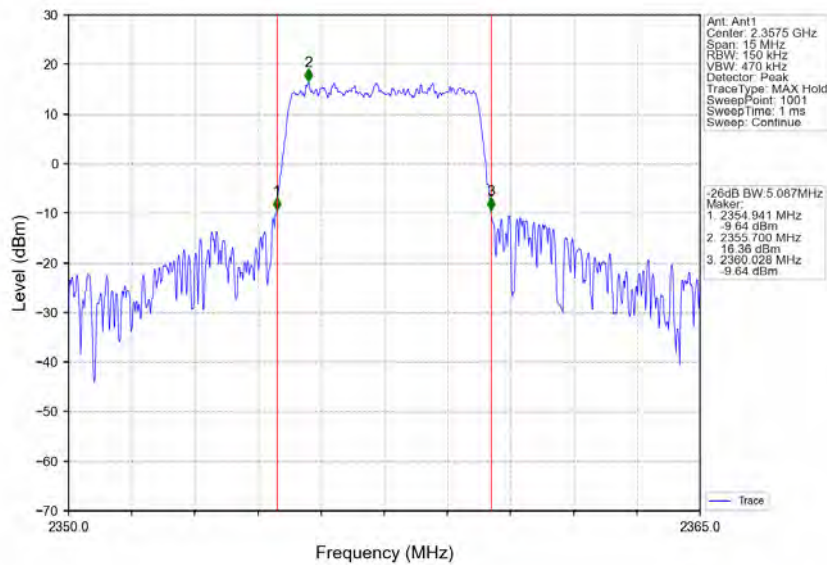
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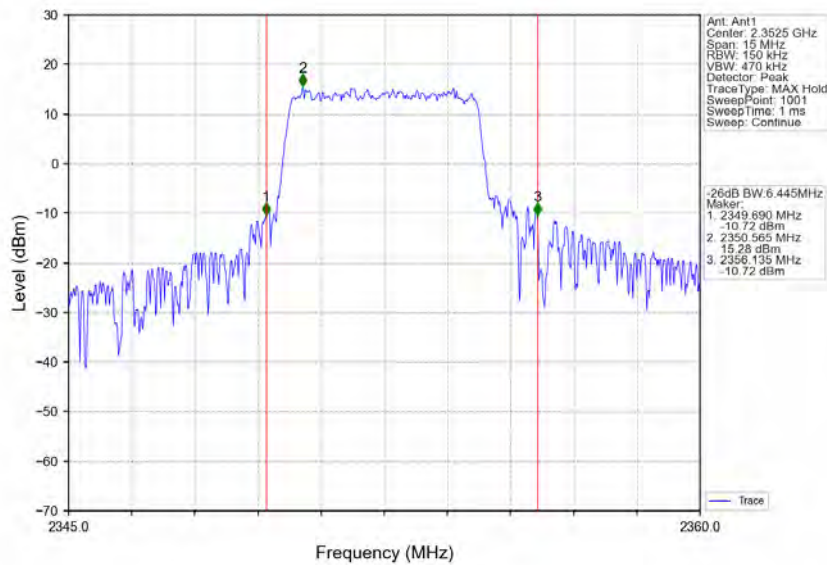
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Band40b\_5MHz\_QPSK\_HCH\_2357.5MHz\_RB\_25\_0\_NTNV



Band40b\_5MHz\_16QAM\_LCH\_2352.5MHz\_RB\_25\_0\_NTNV



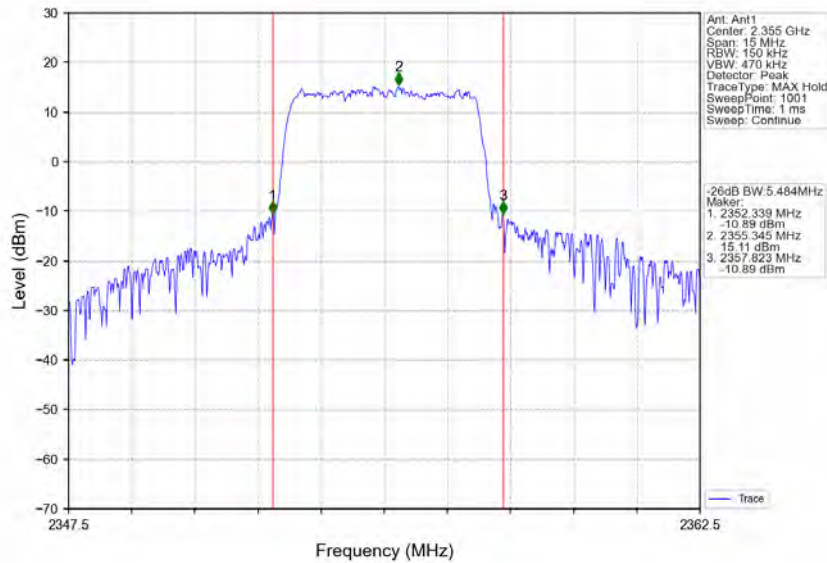
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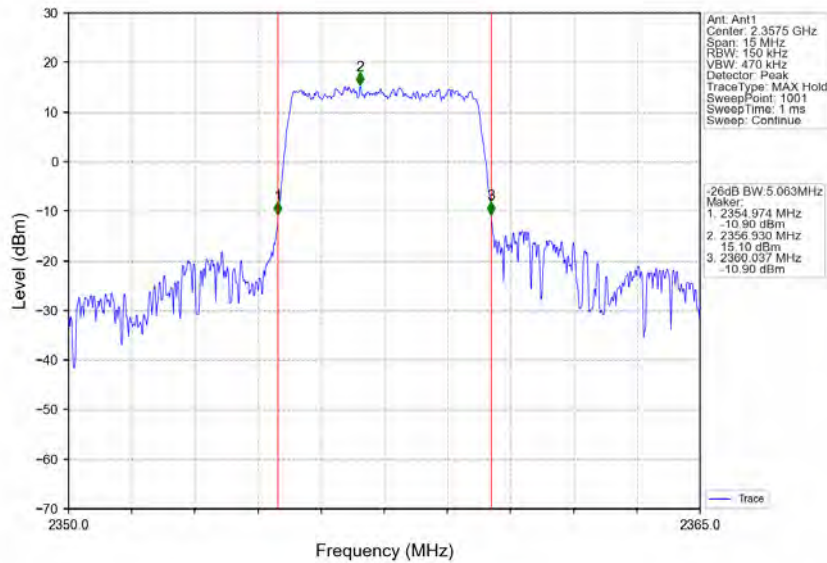
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Band40b\_5MHz\_16QAM\_MCH\_2355MHz\_RB\_25\_0\_NTNV



Band40b\_5MHz\_16QAM\_HCH\_2357.5MHz\_RB\_25\_0\_NTNV



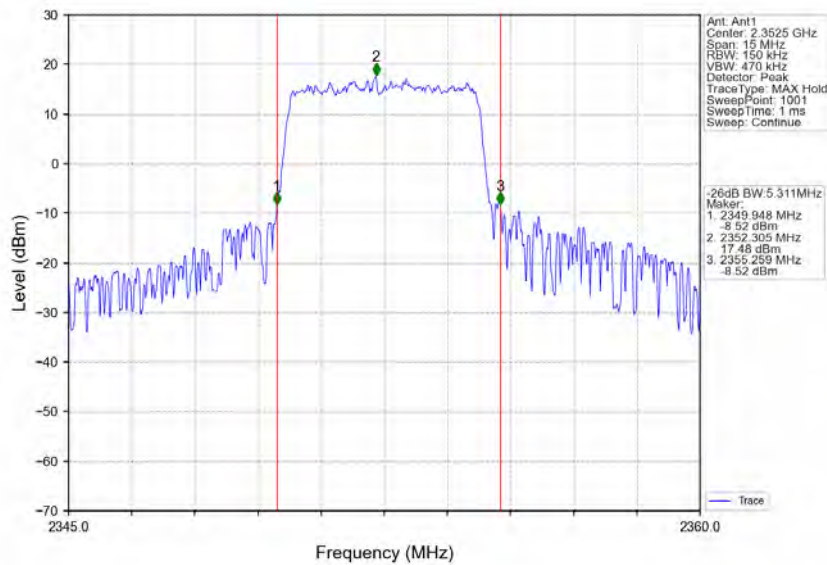
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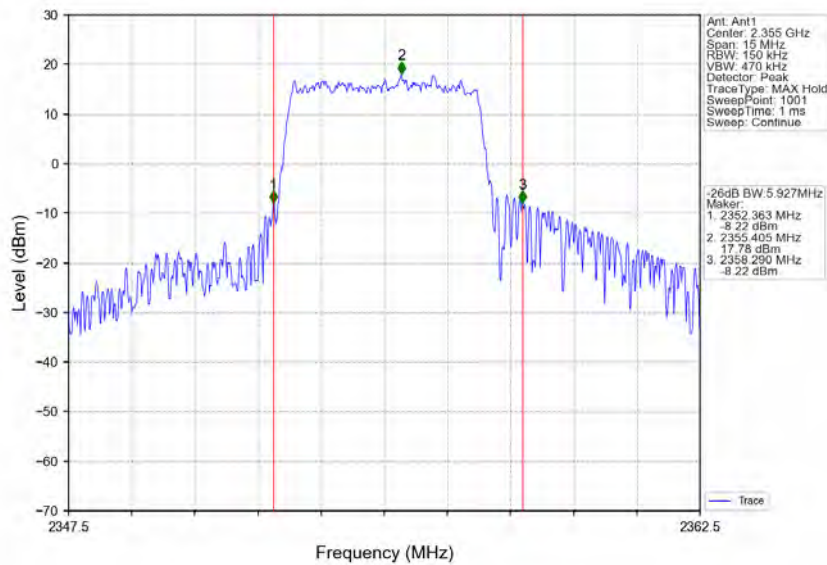
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Band40b\_5MHz\_64QAM\_LCH\_2352.5MHz\_RB\_25\_0\_NTNV



Band40b\_5MHz\_64QAM\_MCH\_2355MHz\_RB\_25\_0\_NTNV



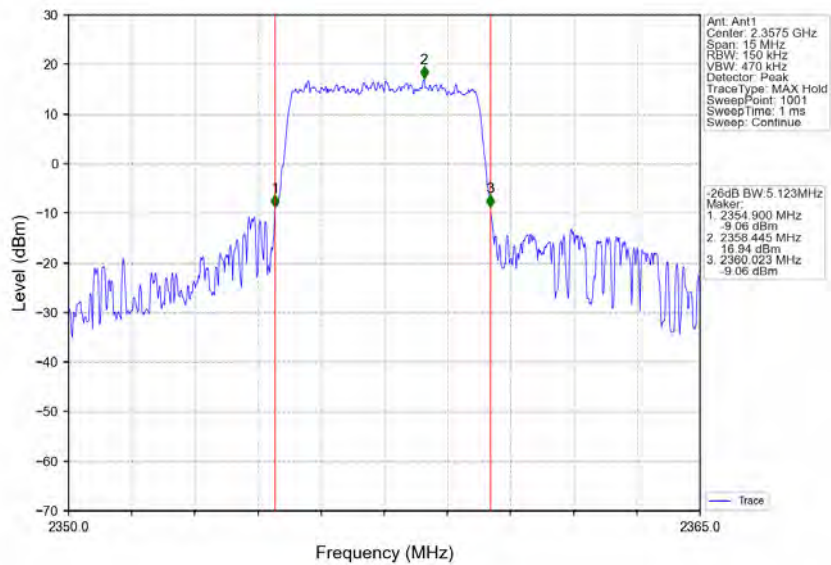
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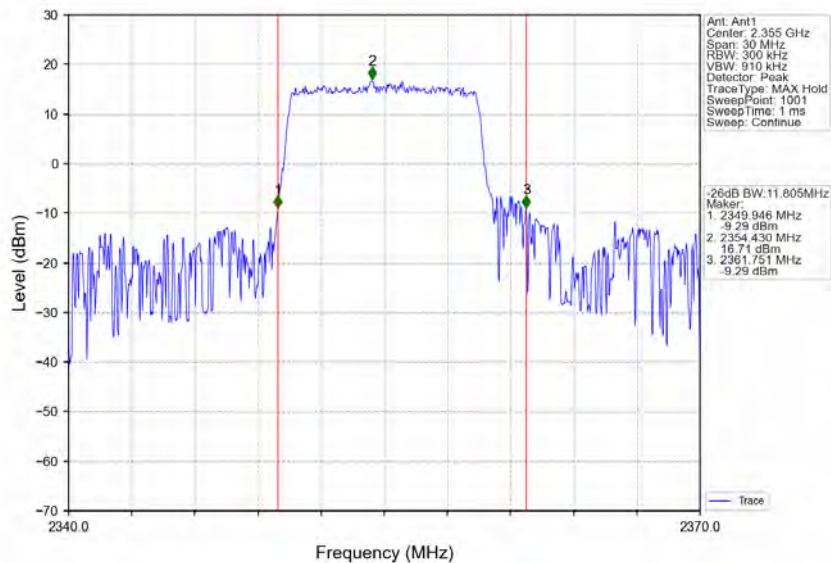
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Band40b\_5MHz\_64QAM\_HCH\_2357.5MHz\_RB\_25\_0\_NTNV



Band40b\_10MHz\_QPSK\_LCH\_2355MHz\_RB\_50\_0\_NTNV



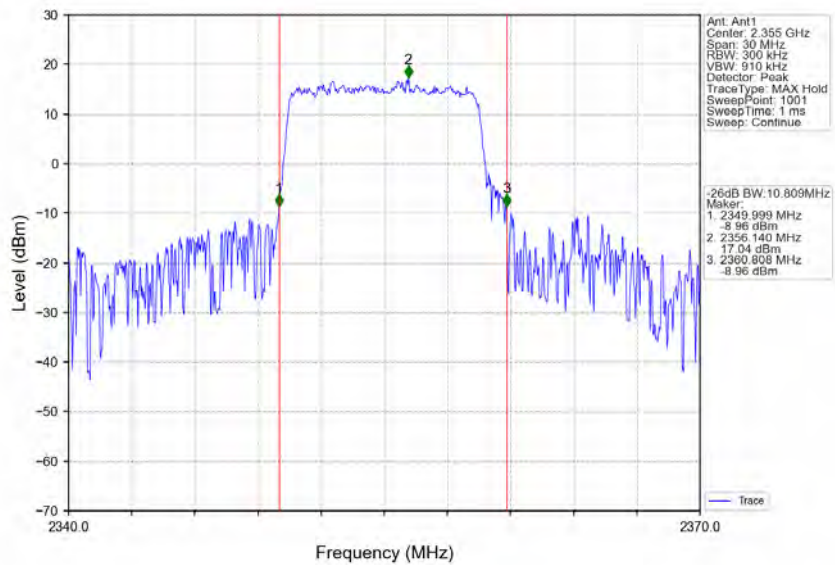
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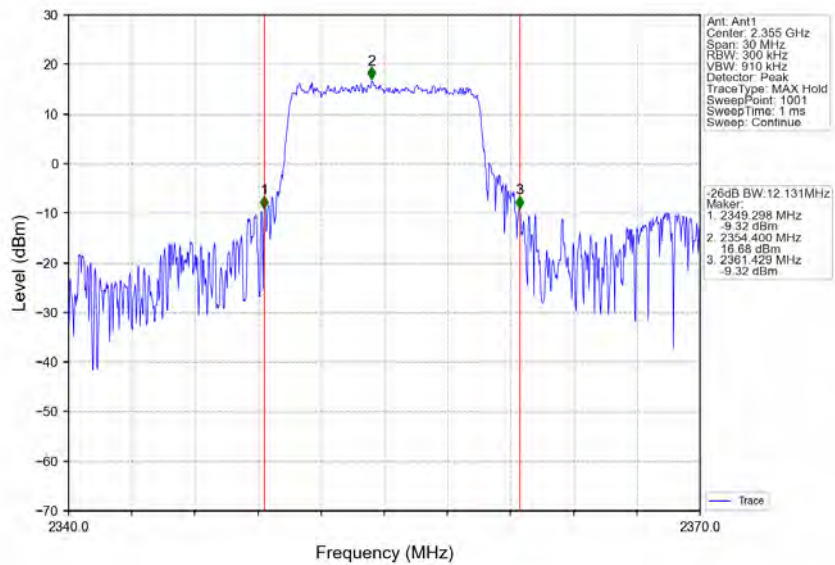
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Band40b\_10MHz\_QPSK\_MCH\_2355MHz\_RB\_50\_0\_NTNV



Band40b\_10MHz\_QPSK\_HCH\_2355MHz\_RB\_50\_0\_NTNV



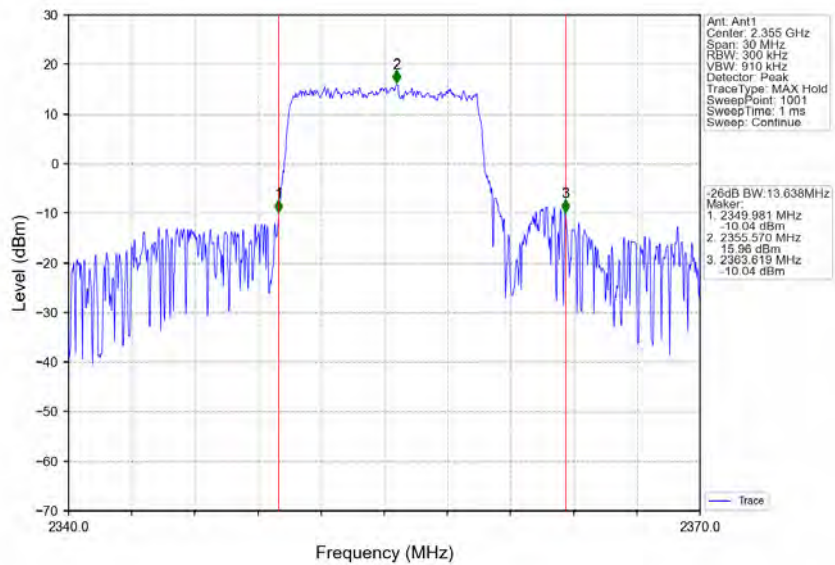
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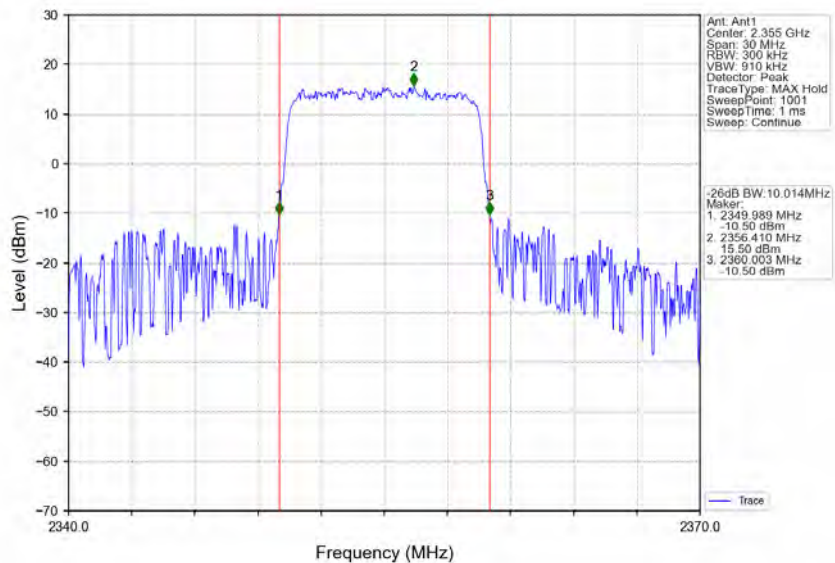
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Band40b\_10MHz\_16QAM\_LCH\_2355MHz\_RB\_50\_0\_NTNV



Band40b\_10MHz\_16QAM\_MCH\_2355MHz\_RB\_50\_0\_NTNV



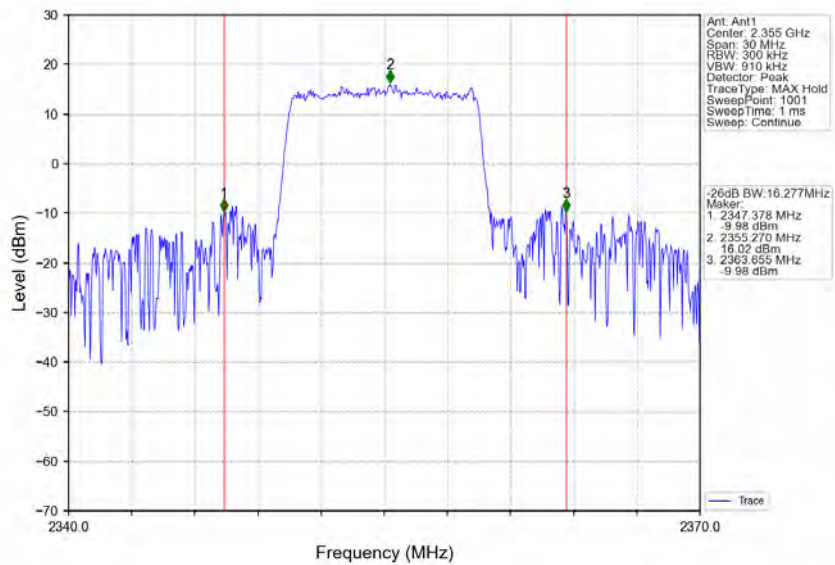
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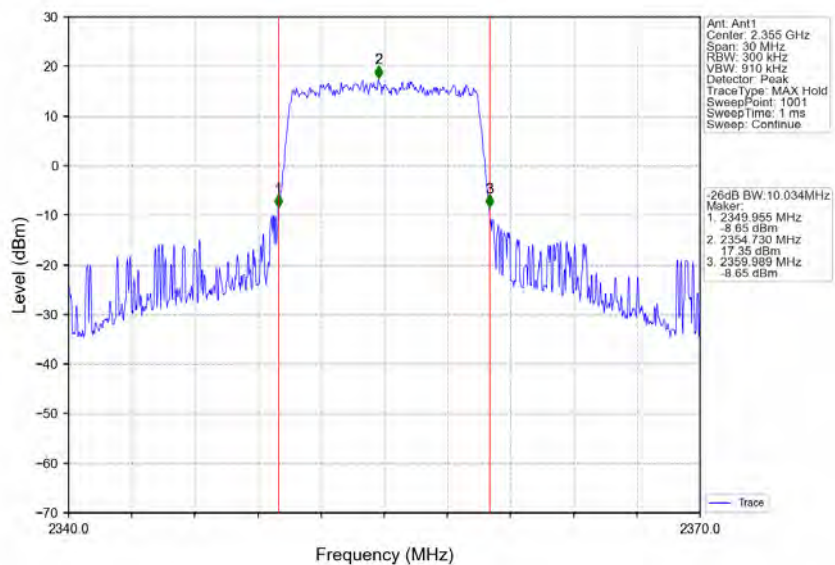
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Band40b\_10MHz\_64QAM\_LCH\_2355MHz\_RB\_50\_0\_NTNV



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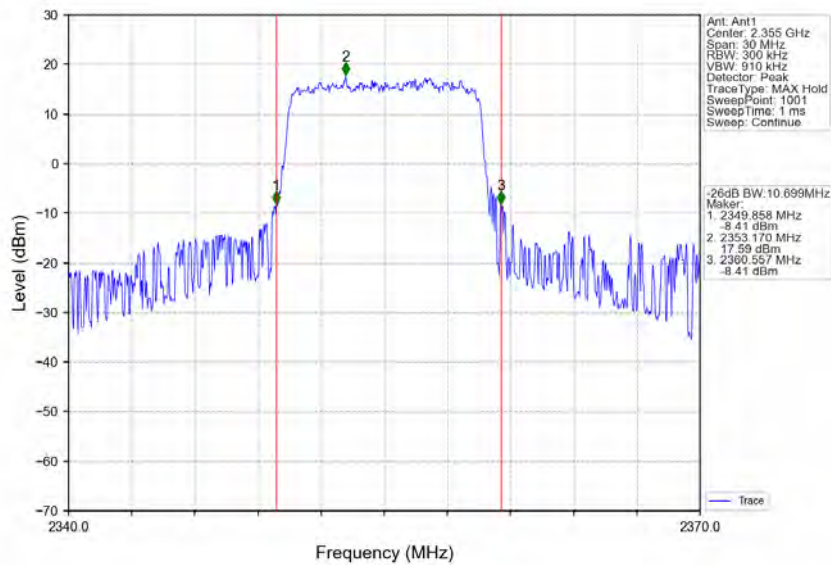
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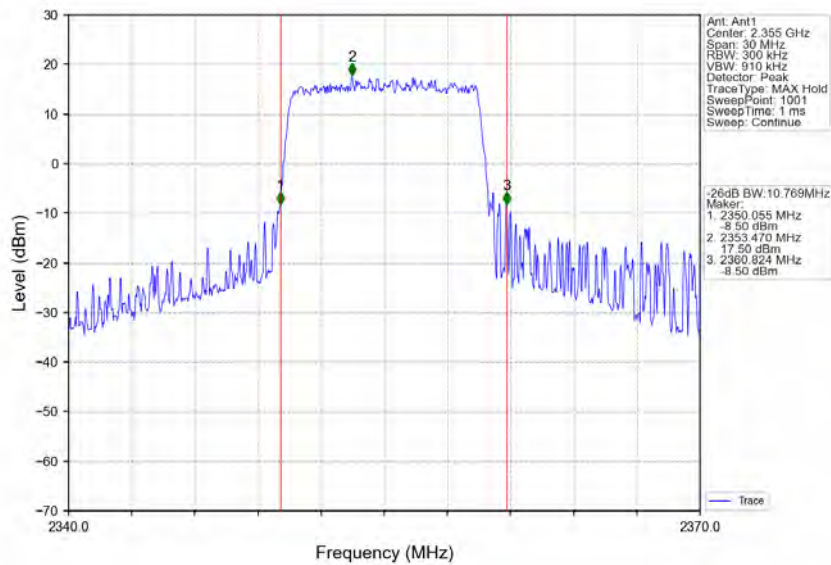
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Band40b\_10MHz\_64QAM\_HCH\_2355MHz\_RB\_50\_0\_NTNV



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## 5. Peak-Average Ratio

### 5.1 B40b\_5MHz

#### 5.1.1 Test Result

Band: 40b / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2352.5	25	0	7.12	<=13	Pass
	2355	25	0	7.29	<=13	Pass
	2357.5	25	0	12.17	<=13	Pass
16QAM	2352.5	25	0	7.69	<=13	Pass
	2355	25	0	8.10	<=13	Pass
	2357.5	25	0	8.04	<=13	Pass
64QAM	2352.5	25	0	8.78	<=13	Pass
	2355	25	0	8.61	<=13	Pass
	2357.5	25	0	8.62	<=13	Pass



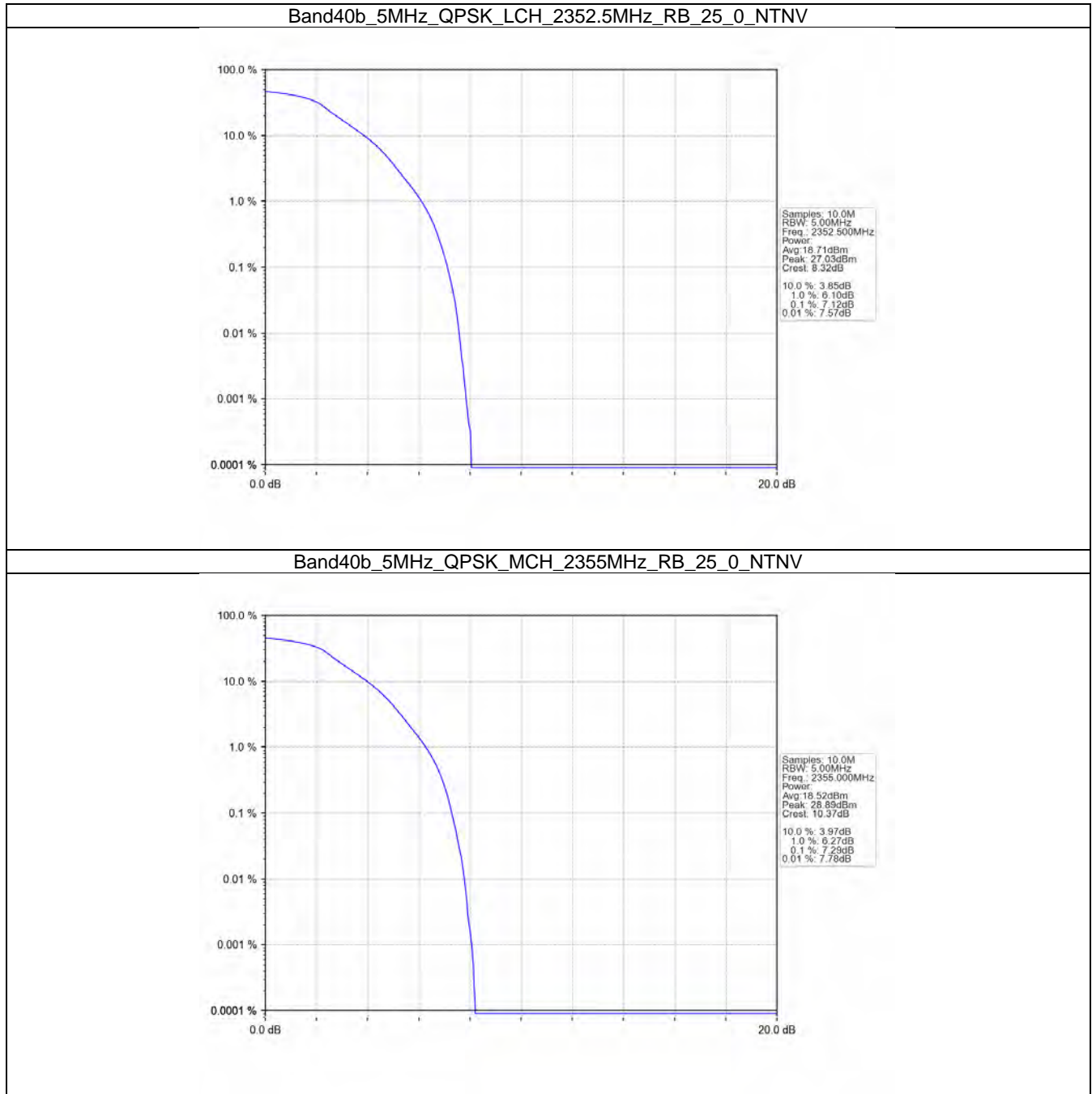
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5.1.2 Test Graph



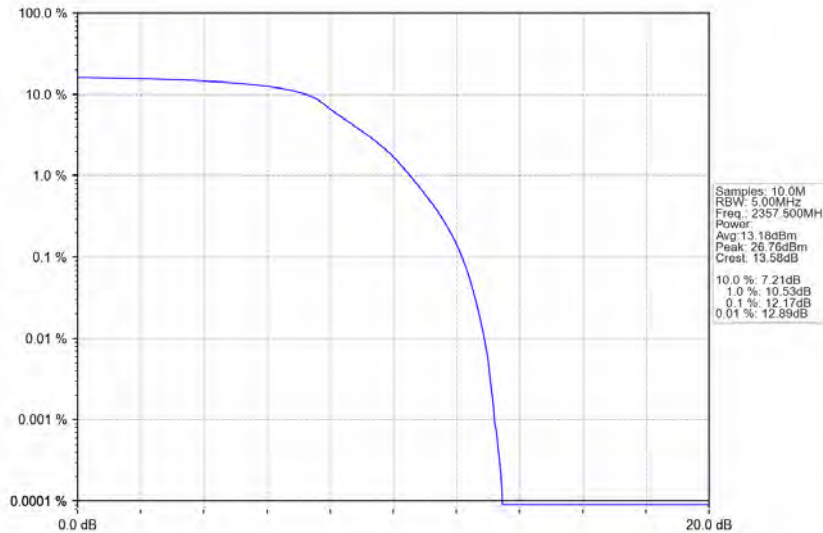
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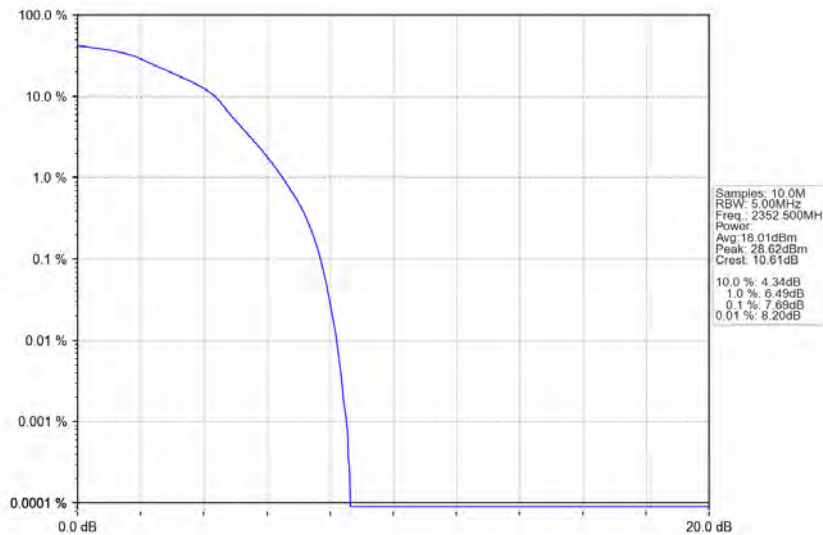
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Band40b\_5MHz\_QPSK\_HCH\_2357.5MHz\_RB\_25\_0\_NTNV



Band40b\_5MHz\_16QAM\_LCH\_2352.5MHz\_RB\_25\_0\_NTNV



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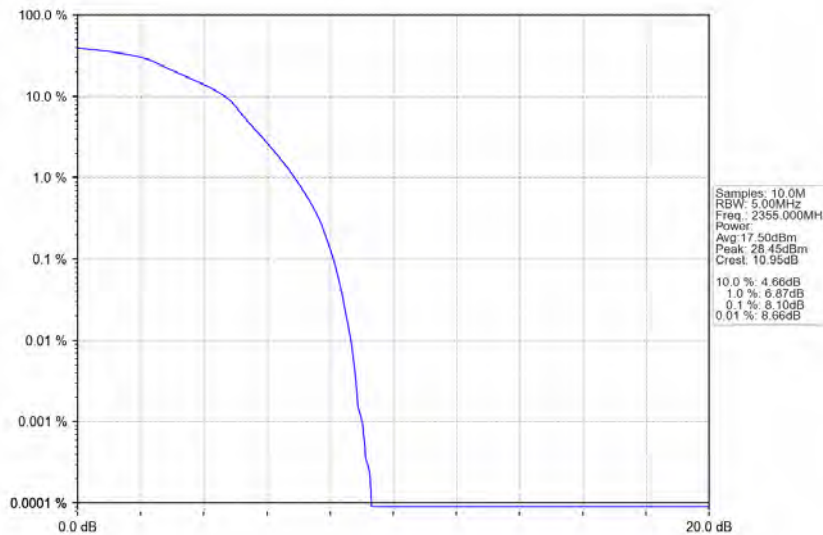
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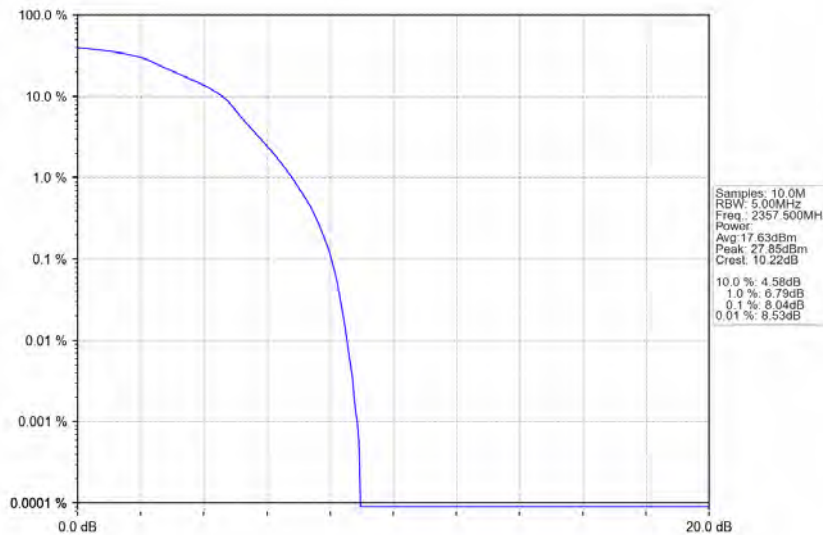
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Band40b\_5MHz\_16QAM\_MCH\_2355MHz\_RB\_25\_0\_NTNV



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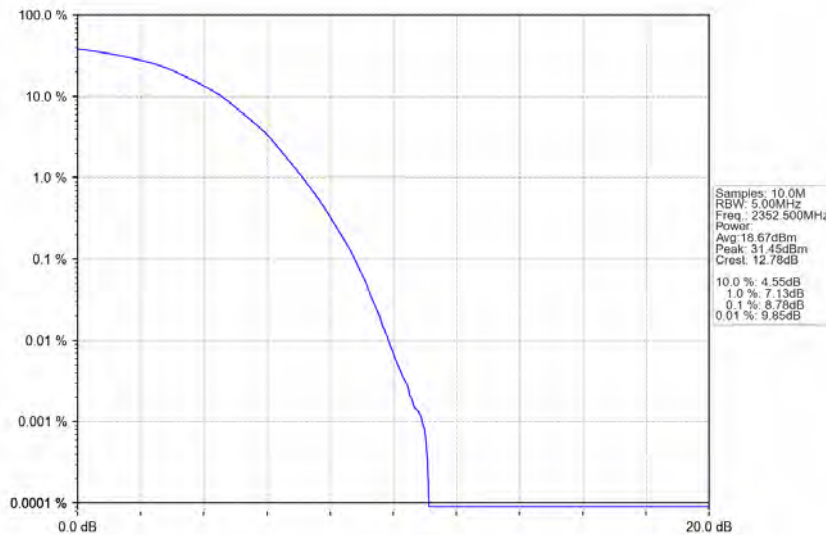
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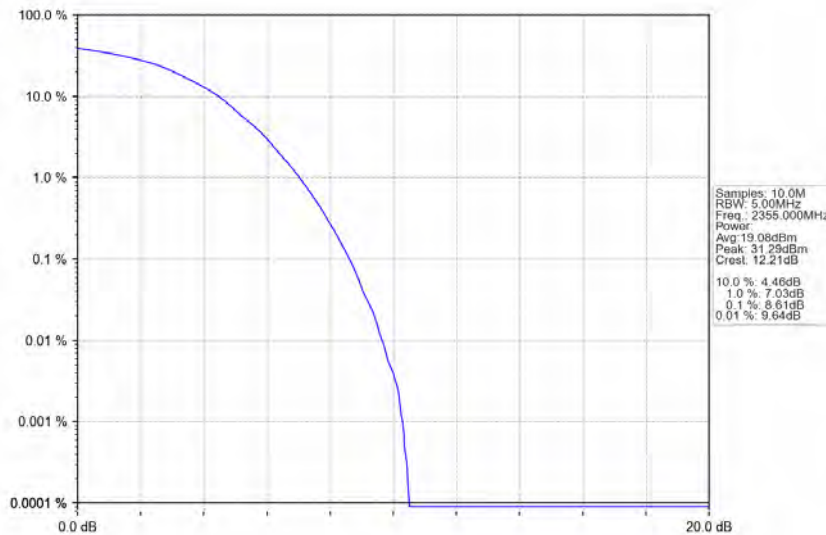
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Band40b\_5MHz\_64QAM\_MCH\_2355MHz\_RB\_25\_0\_NTNV



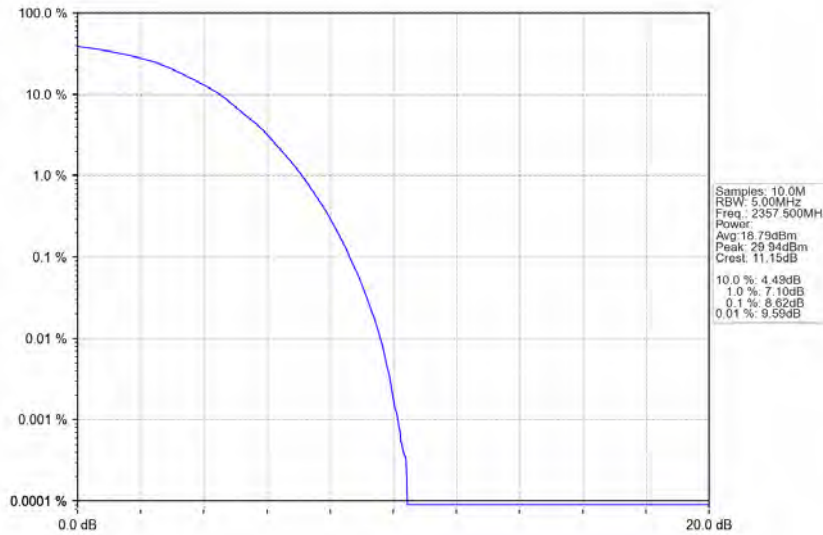
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5.2 B40b\_10MHz

5.2.1 Test Result

Band: 40b / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2355	50	0	7.55	<=13	Pass
	2355	50	0	7.32	<=13	Pass
	2355	50	0	7.36	<=13	Pass
16QAM	2355	50	0	8.53	<=13	Pass
	2355	50	0	8.34	<=13	Pass
	2355	50	0	8.29	<=13	Pass
64QAM	2355	50	0	8.69	<=13	Pass
	2355	50	0	8.76	<=13	Pass
	2355	50	0	8.76	<=13	Pass



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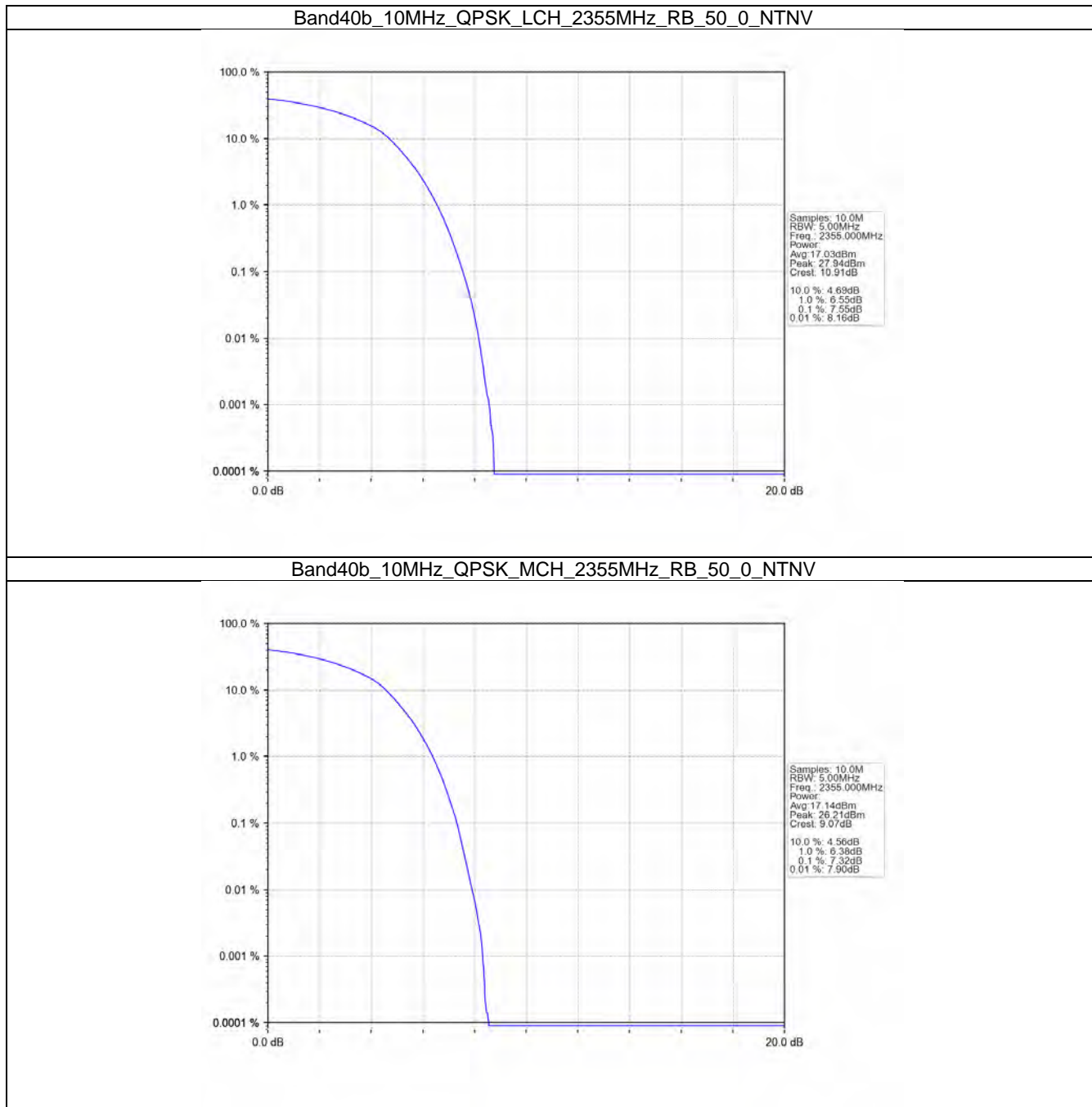
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5.2.2 Test Graph



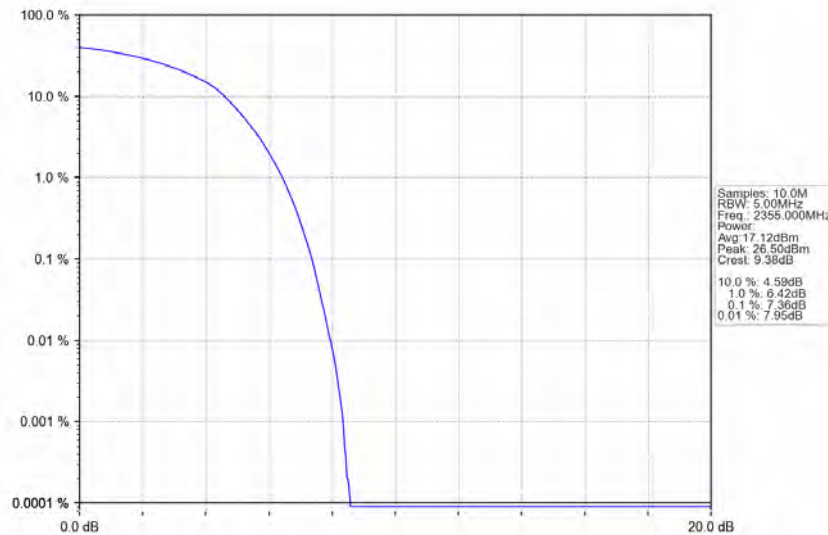
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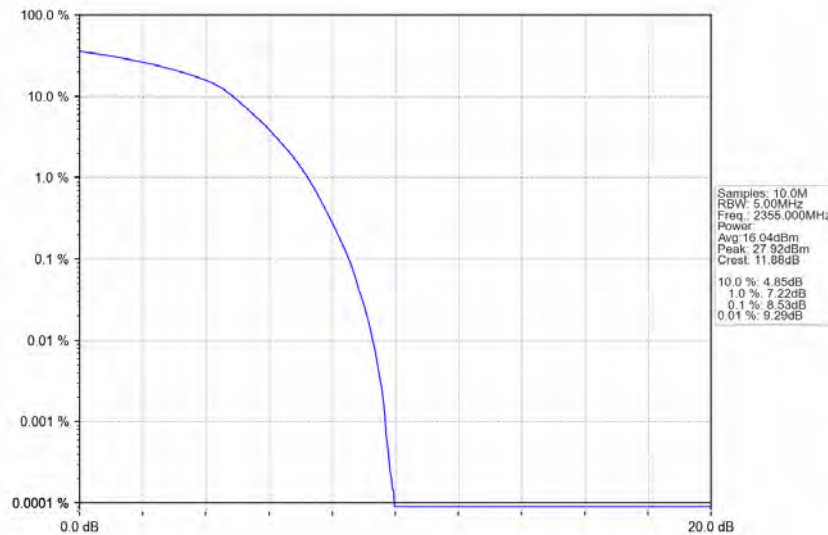
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Band40b\_10MHz\_16QAM\_LCH\_2355MHz\_RB\_50\_0\_NTNV



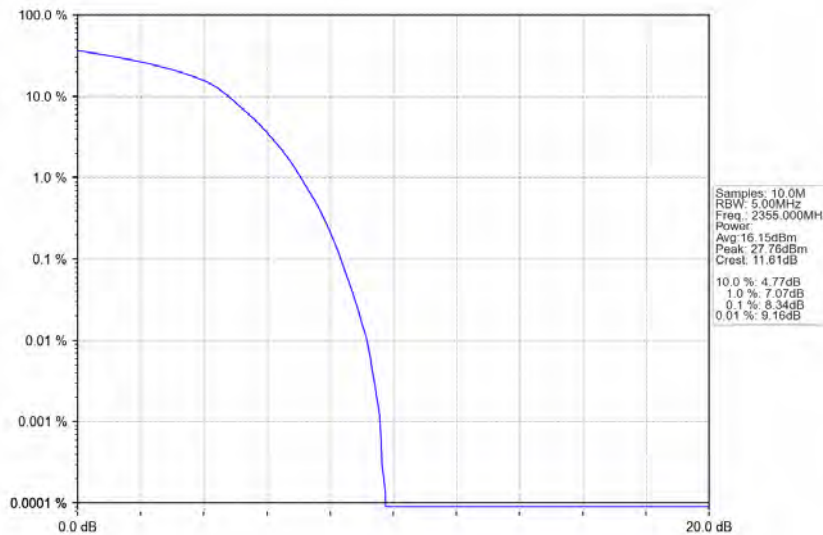
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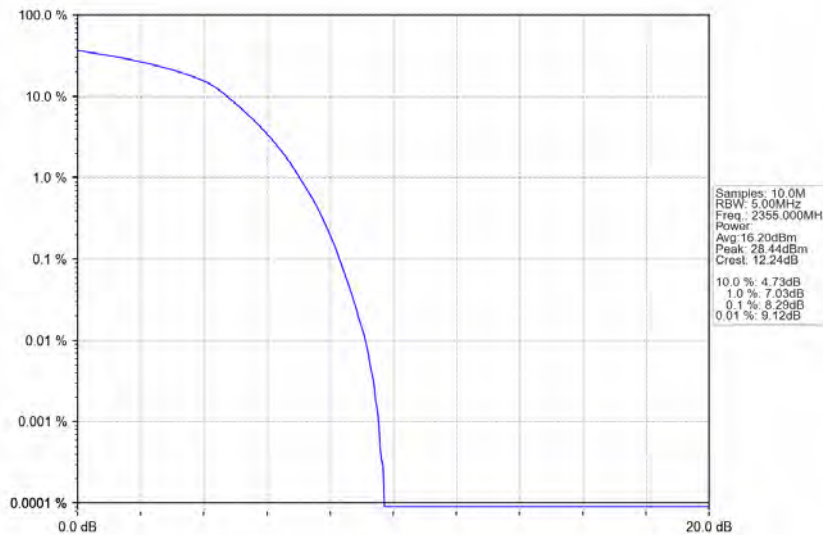
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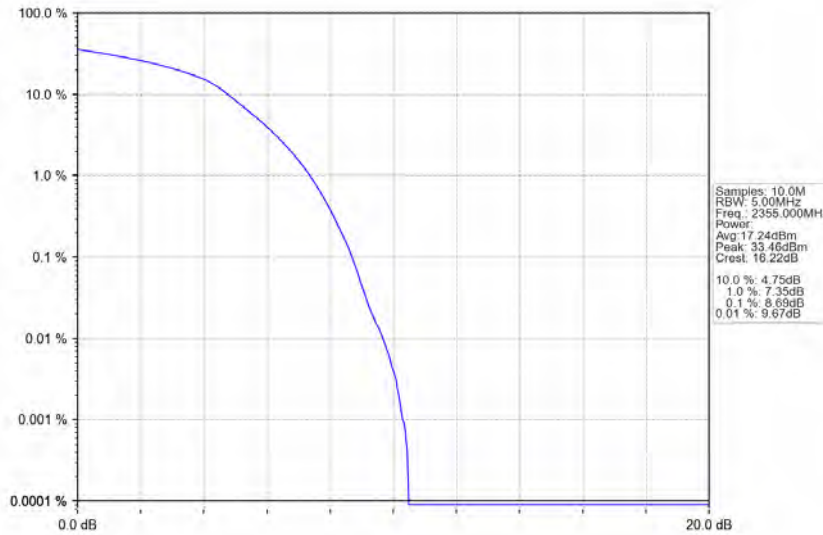
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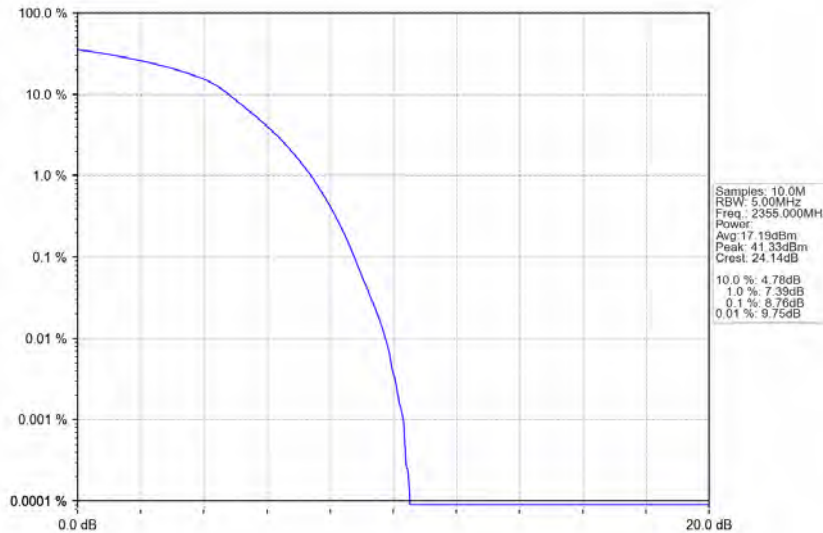
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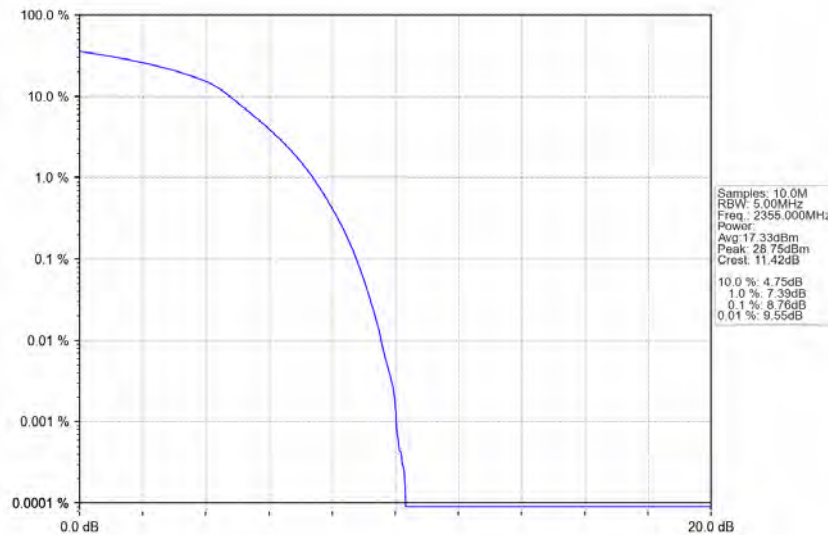
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## 6. Spurious Emission

### 6.1 B40b\_5MHz

#### 6.1.1 Test Result

Band: 40b / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2352.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2355	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2357.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2352.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2355	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2357.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	2352.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2355	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2357.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



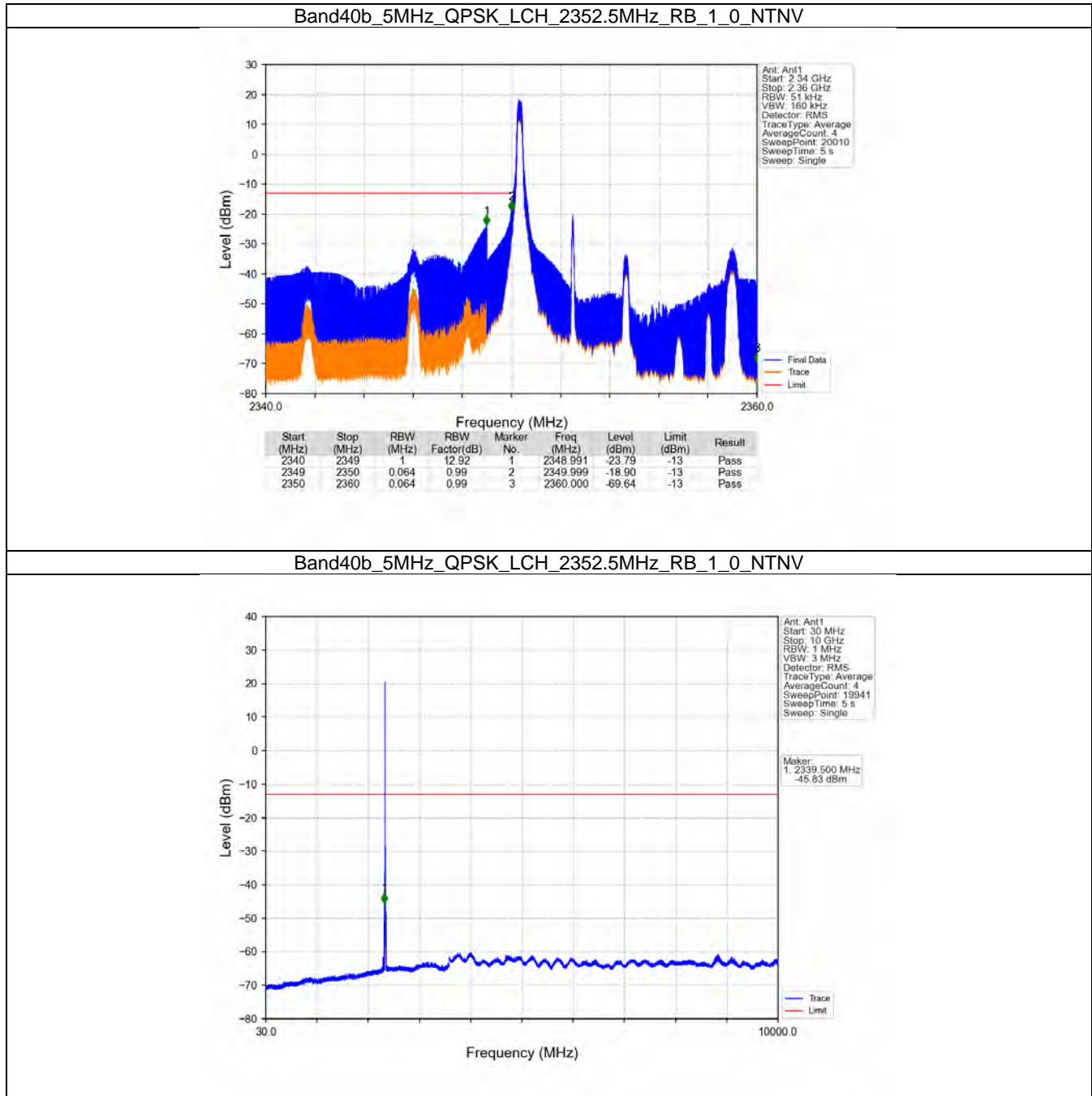
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6.1.2 Test Graph



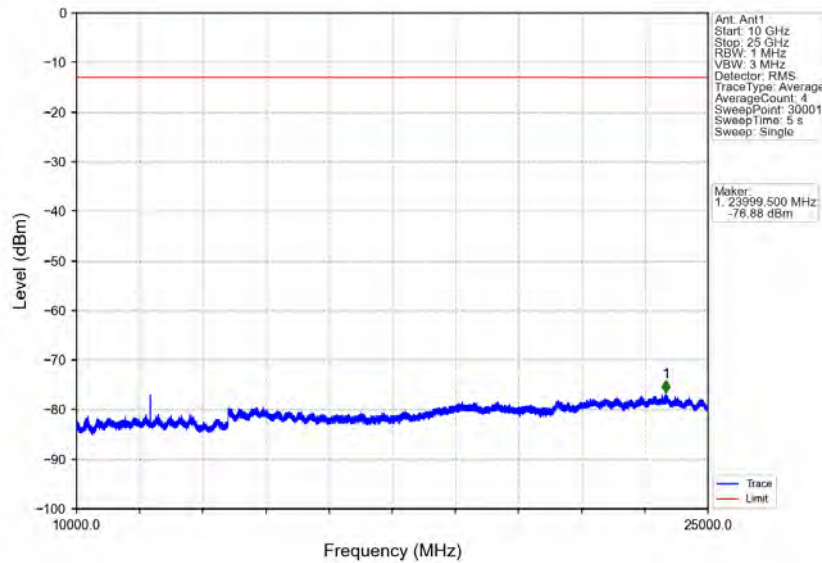
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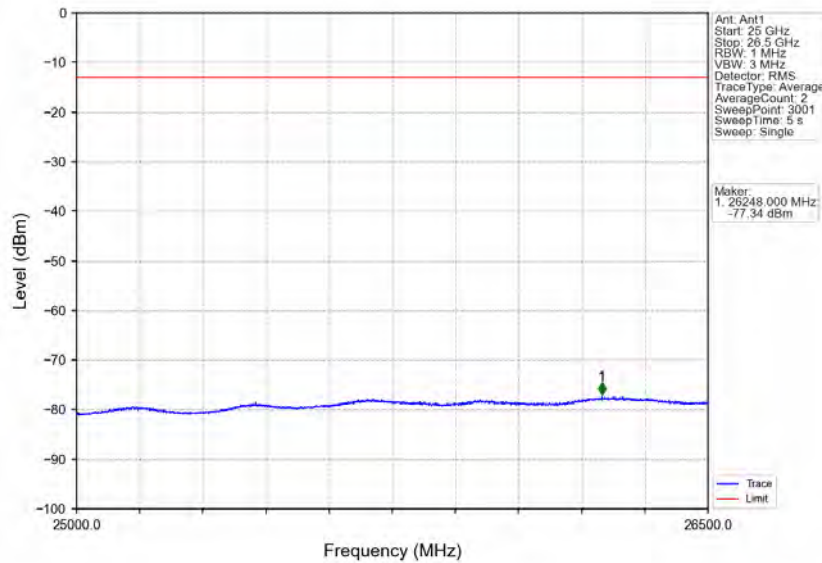
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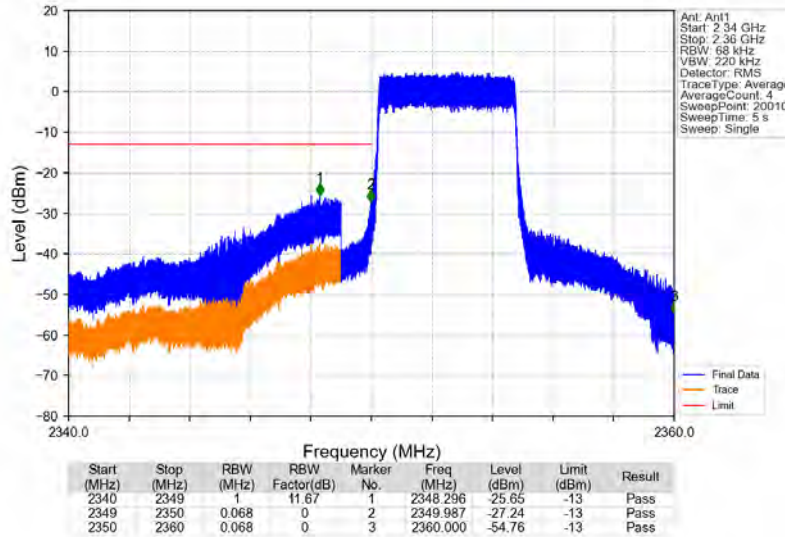
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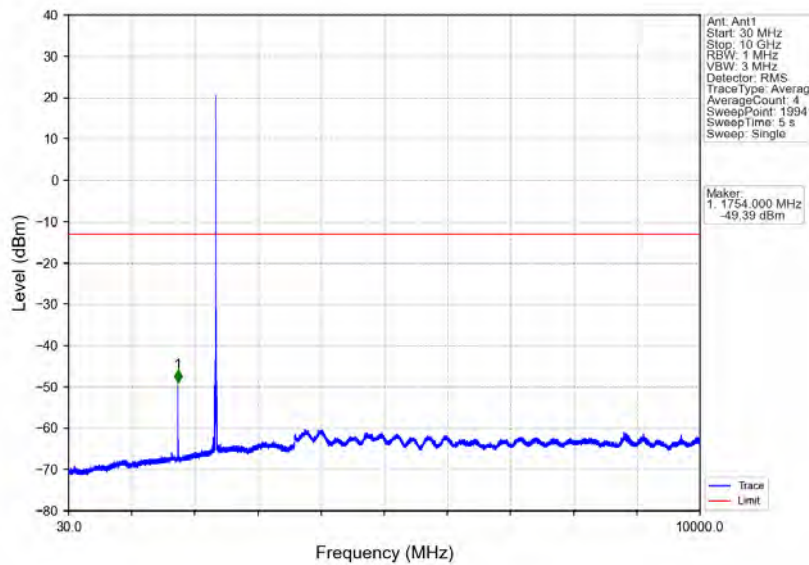
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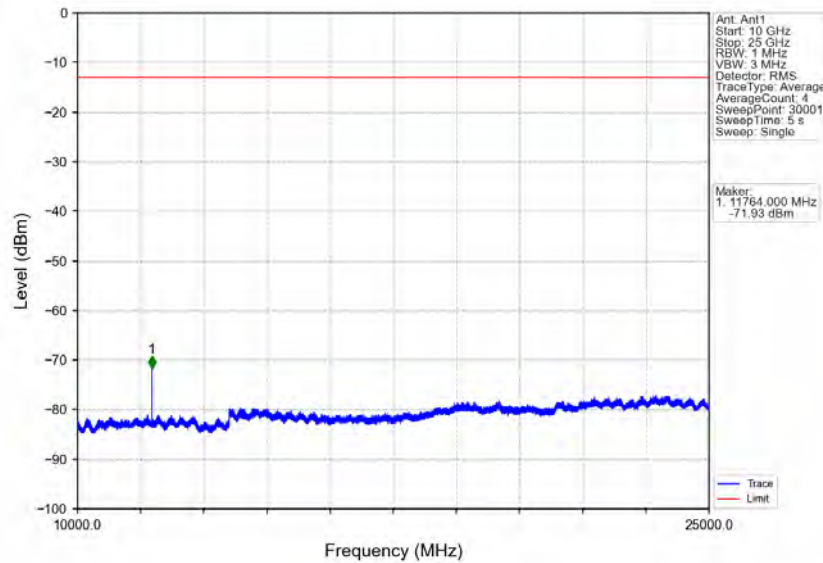
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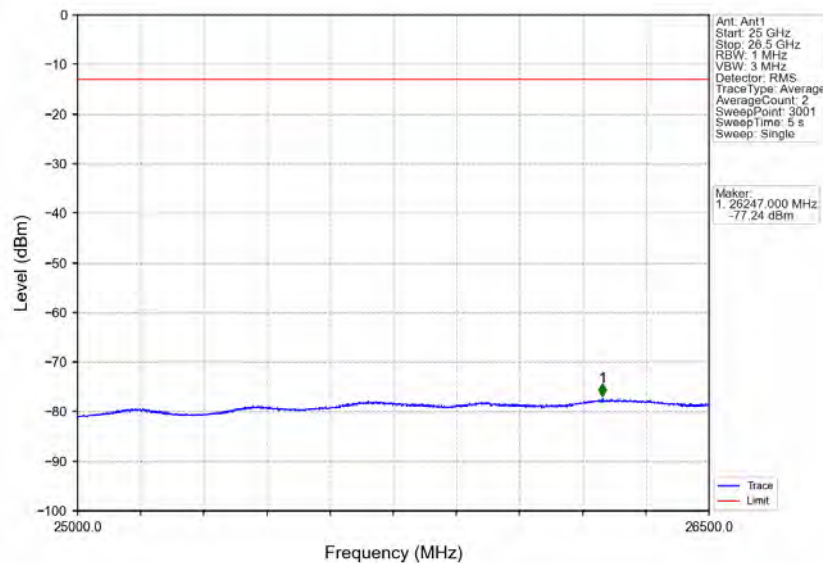
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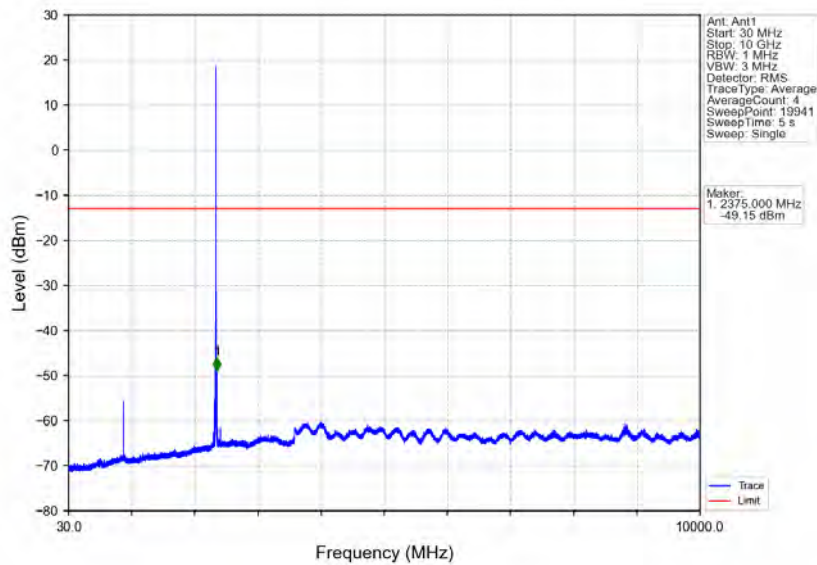
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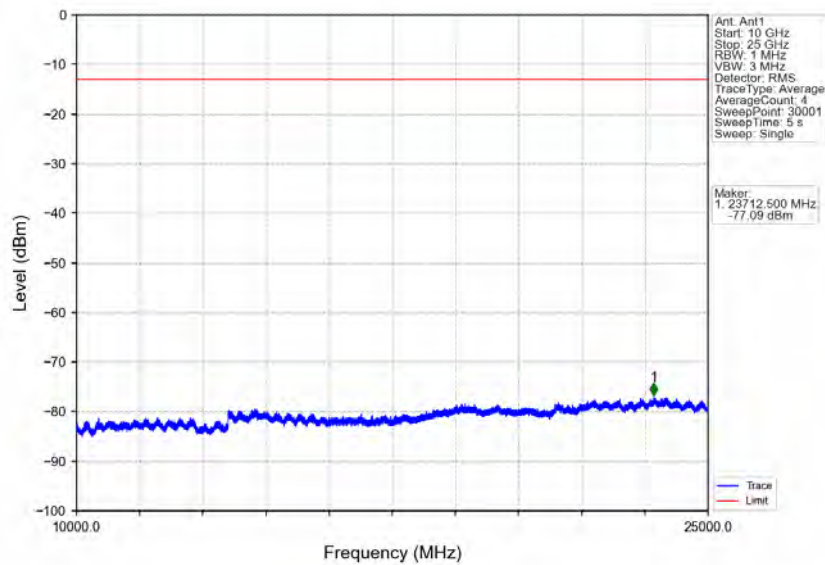
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Band40b\_5MHz\_QPSK\_HCH\_2357.5MHz\_RB\_1\_0\_NTNV



Band40b\_5MHz\_QPSK\_HCH\_2357.5MHz\_RB\_1\_0\_NTNV



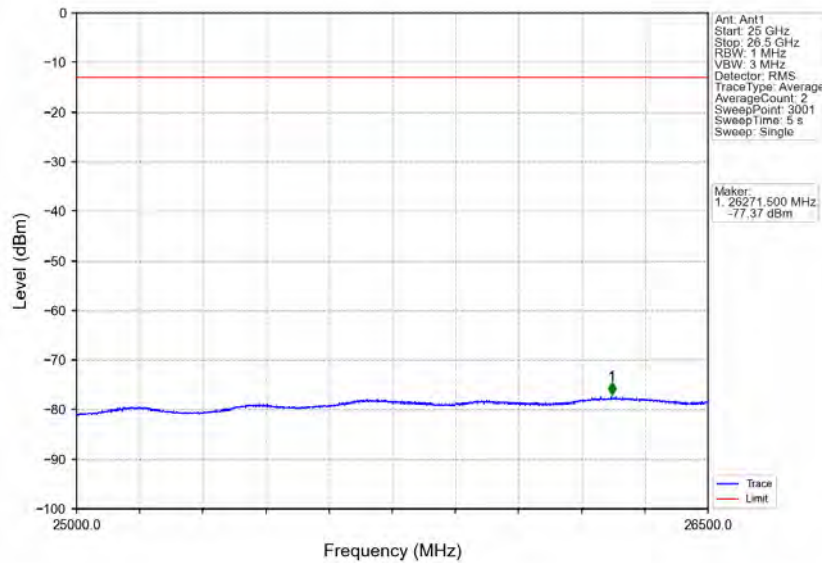
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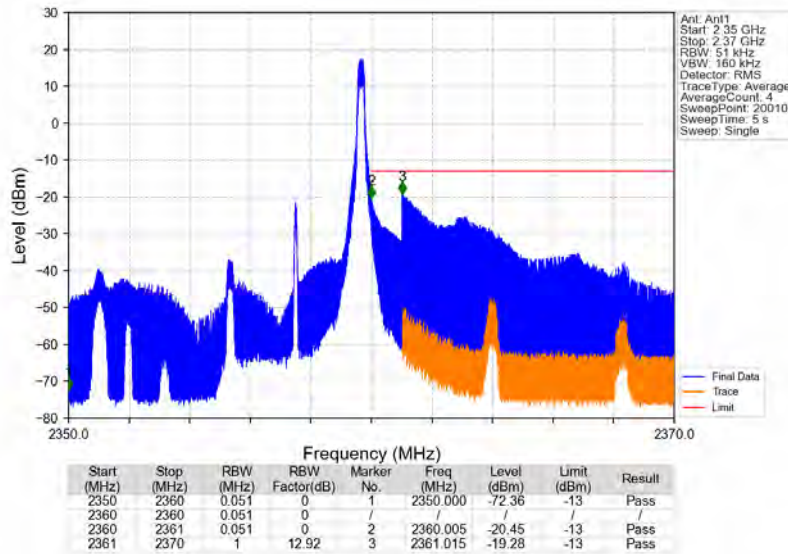
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Band40b\_5MHz\_QPSK\_HCH\_2357.5MHz\_RB\_1\_0\_NTNV



Band40b\_5MHz\_QPSK\_HCH\_2357.5MHz\_RB\_1\_24\_NTNV



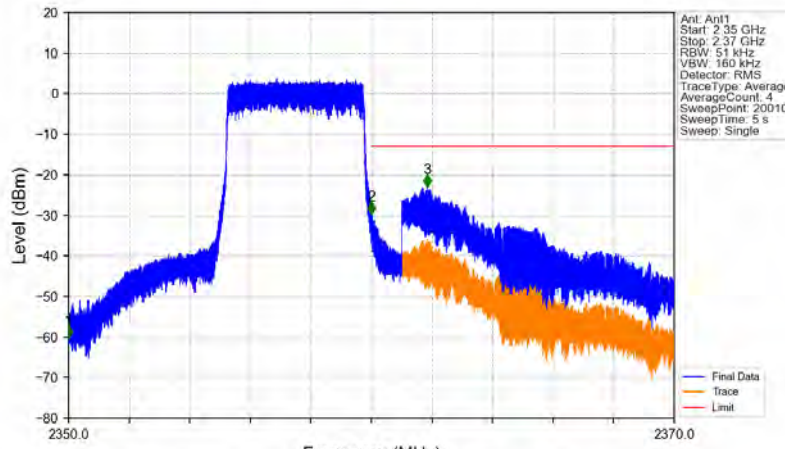
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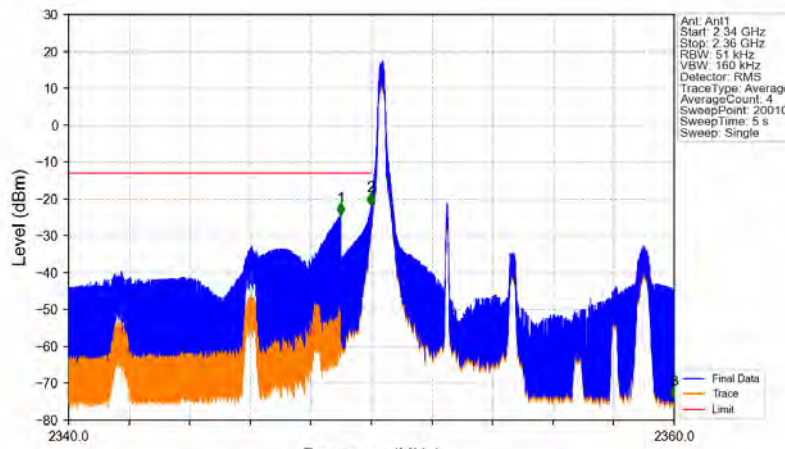
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### Band40b\_5MHz\_QPSK\_HCH\_2357.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2350	2360	0.051	0	1	2350.000	-60.32	-13	Pass
2360	2361	0.051	0	2	2360.007	-29.75	-13	Pass
2361	2370	1	12.92	3	2361.837	-23.08	-13	Pass

### Band40b\_5MHz\_16QAM\_LCH\_2352.5MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2340	2349	1	12.92	1	2348.987	-24.52	-13	Pass
2349	2350	0.064	0.99	2	2349.987	-21.73	-13	Pass
2350	2360	0.064	0.99	3	2360.000	-74.23	-13	Pass



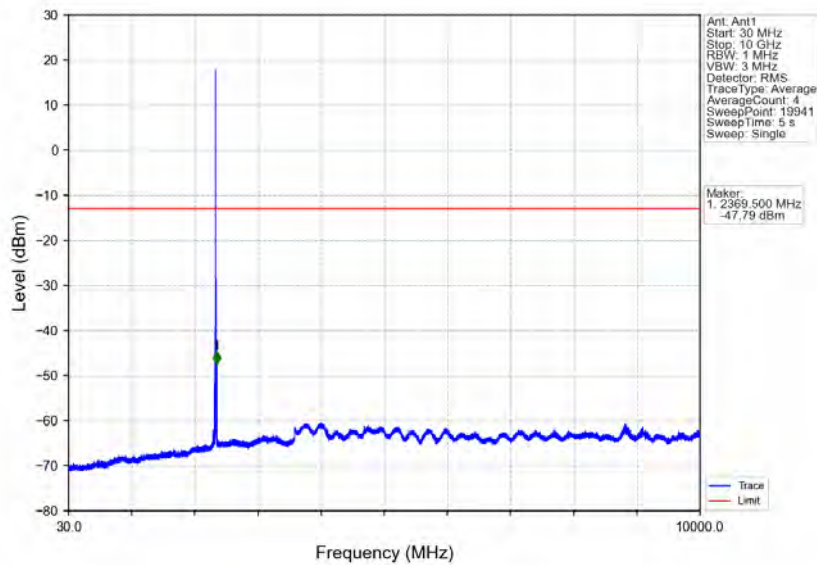
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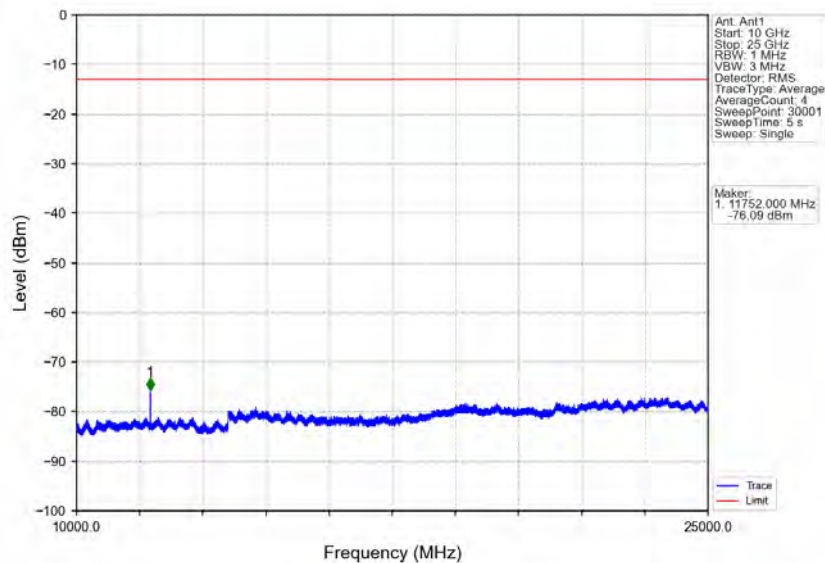
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Band40b\_5MHz\_16QAM\_LCH\_2352.5MHz\_RB\_1\_0\_NTNV



Band40b\_5MHz\_16QAM\_LCH\_2352.5MHz\_RB\_1\_0\_NTNV



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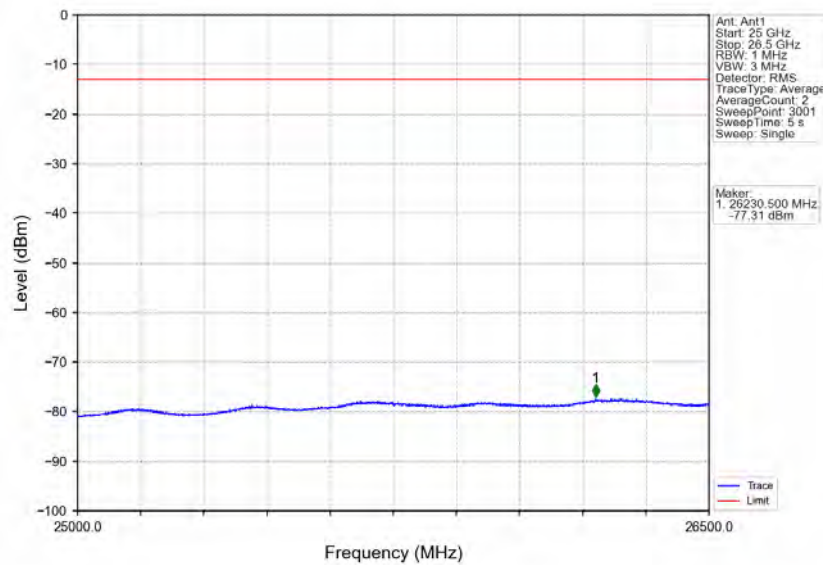
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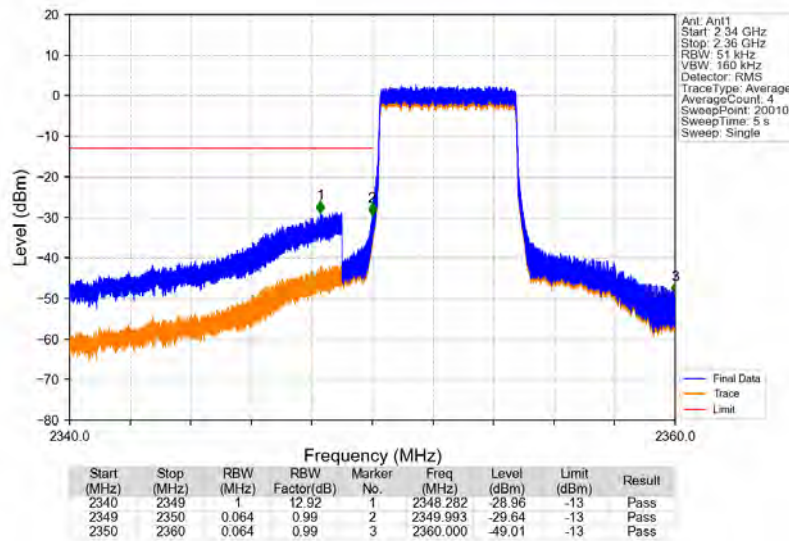
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Band40b\_5MHz\_16QAM\_LCH\_2352.5MHz\_RB\_1\_0\_NTNV



Band40b\_5MHz\_16QAM\_LCH\_2352.5MHz\_RB\_25\_0\_NTNV



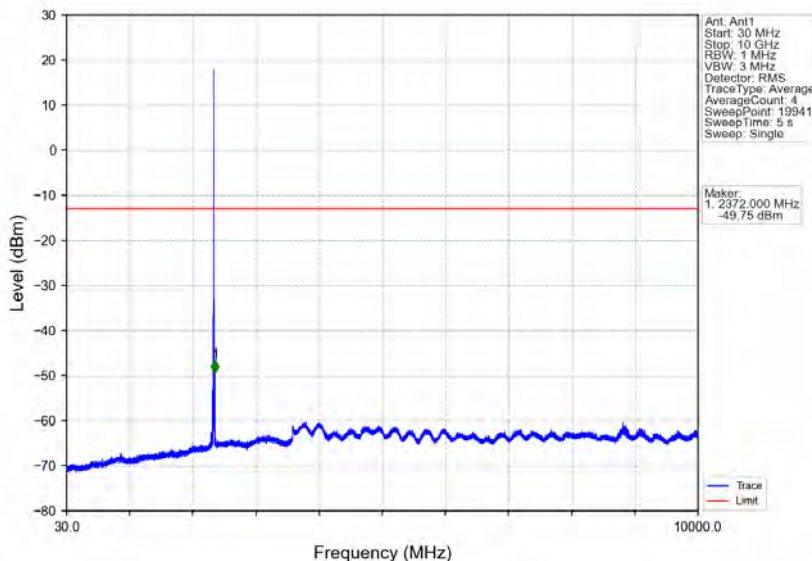
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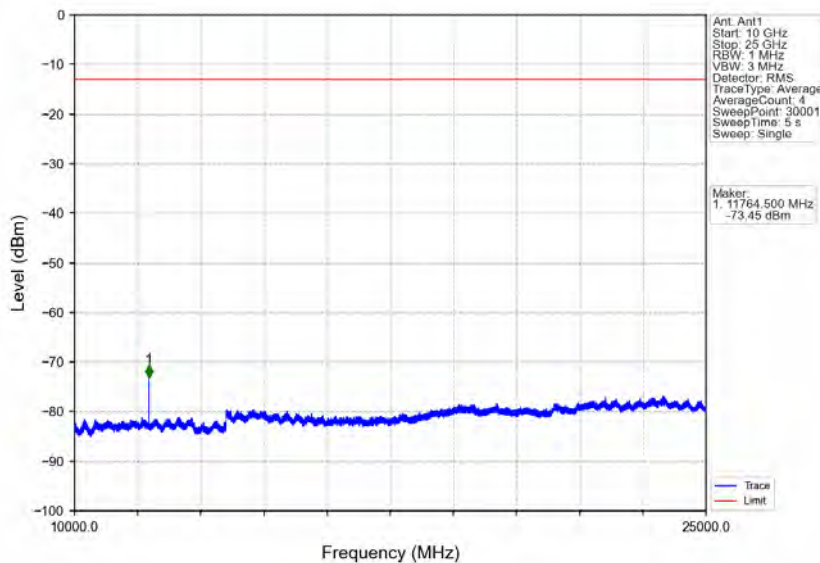
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Band40b\_5MHz\_16QAM\_MCH\_2355MHz\_RB\_1\_0\_NTNV



Band40b\_5MHz\_16QAM\_MCH\_2355MHz\_RB\_1\_0\_NTNV



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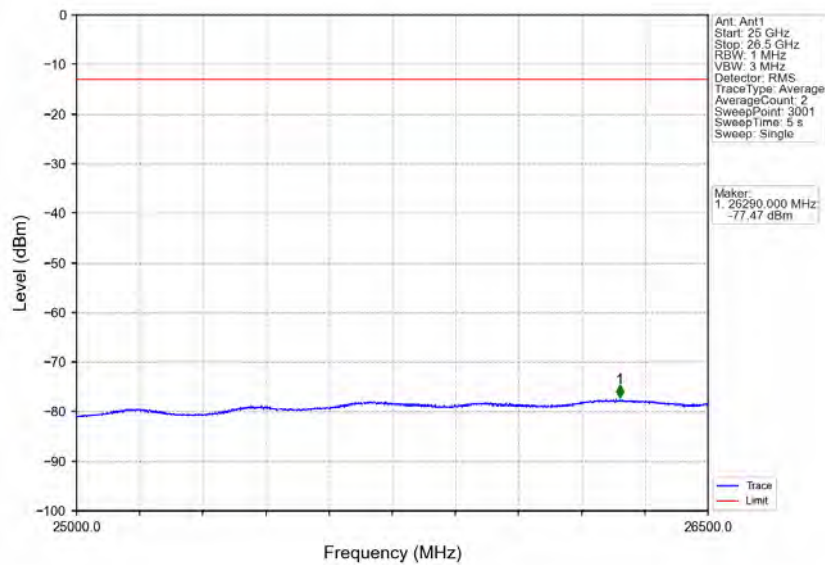
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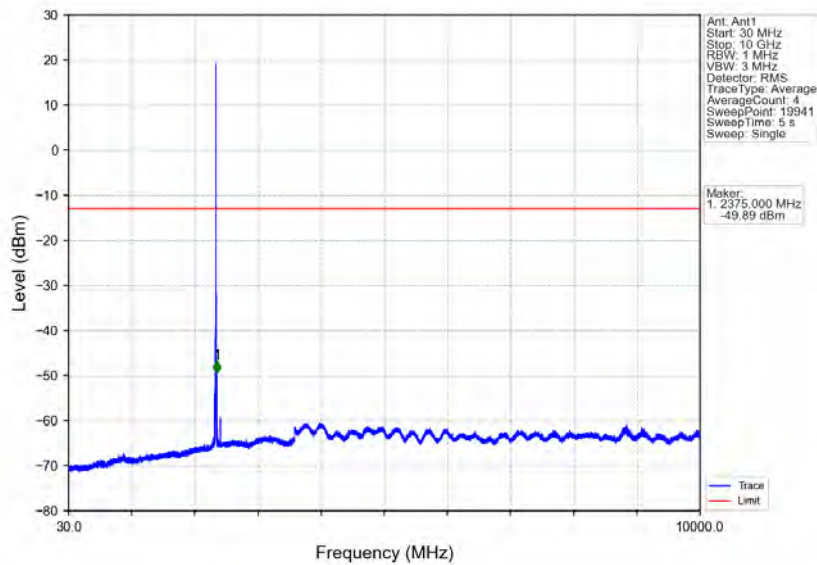




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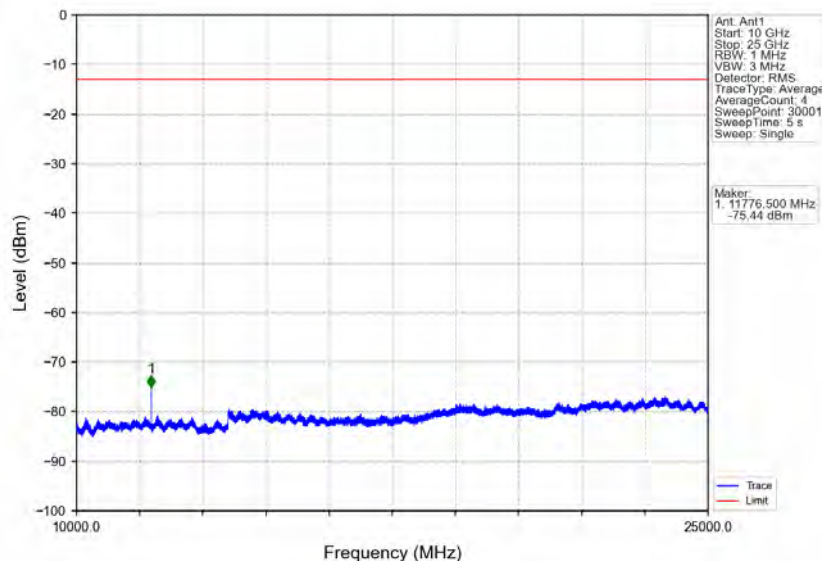
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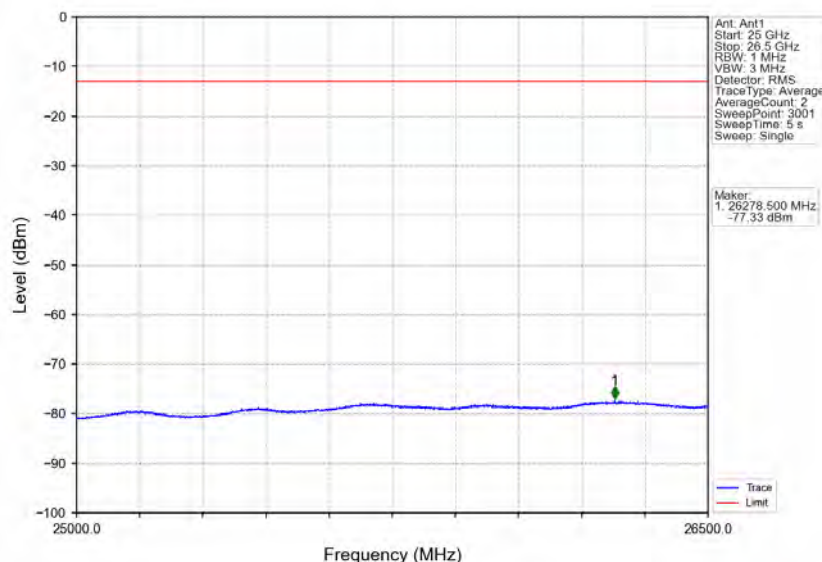
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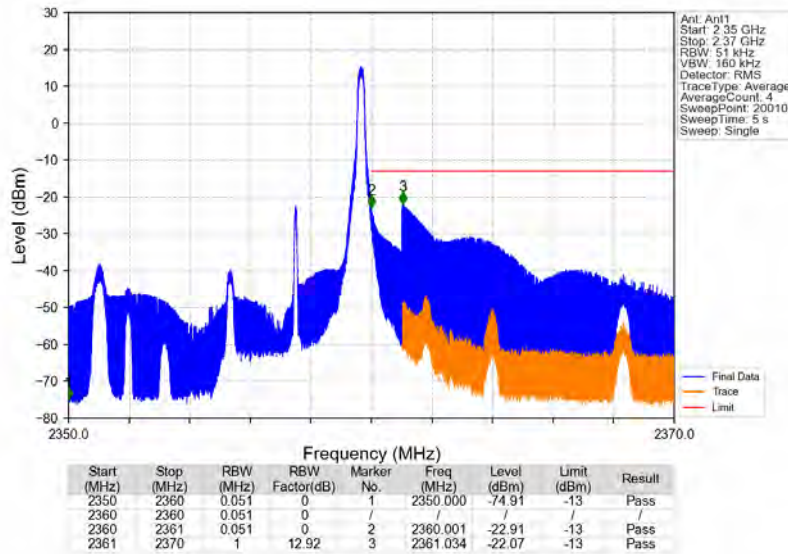


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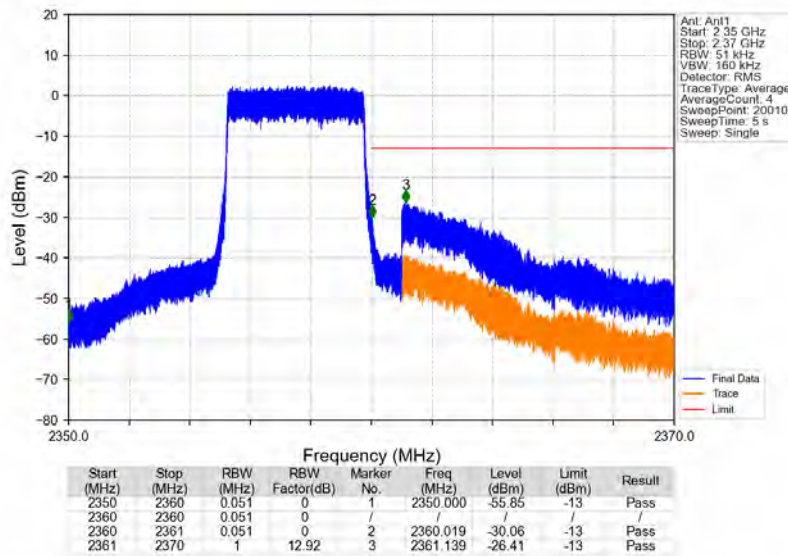
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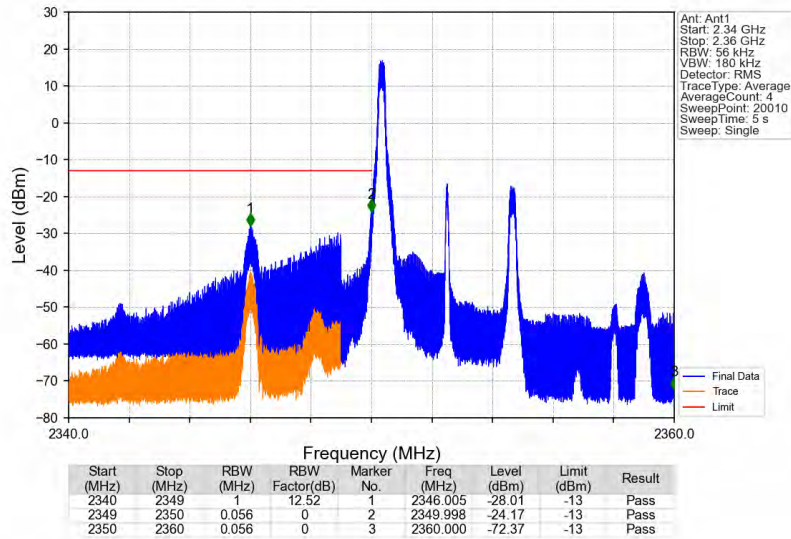
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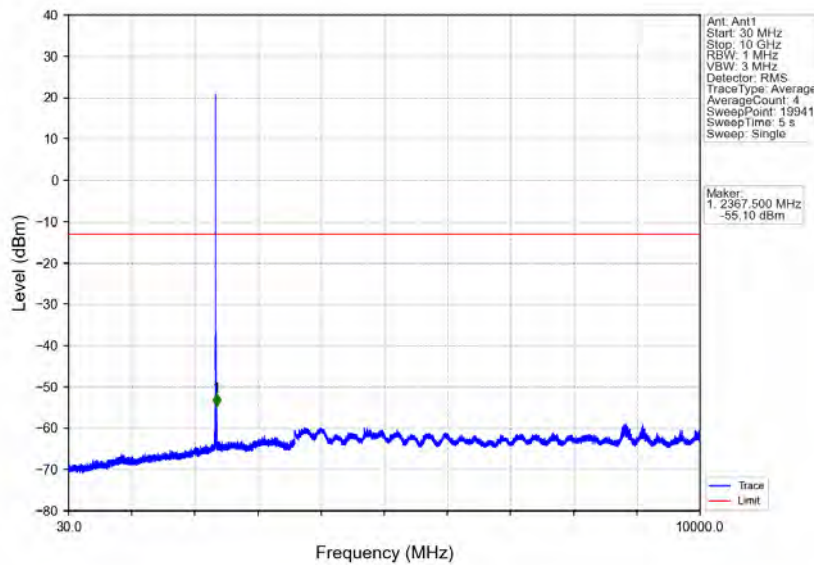
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Band40b\_5MHz\_64QAM\_LCH\_2352.5MHz\_RB\_1\_0\_NTNV



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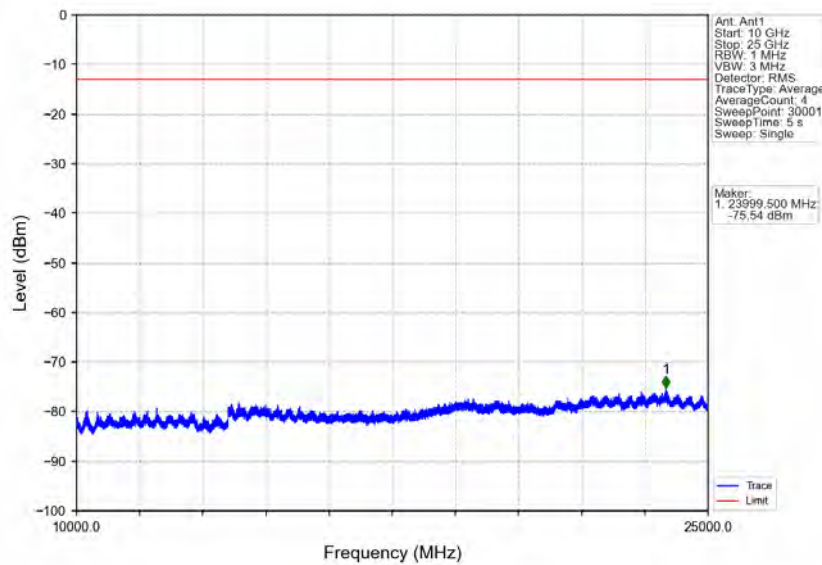
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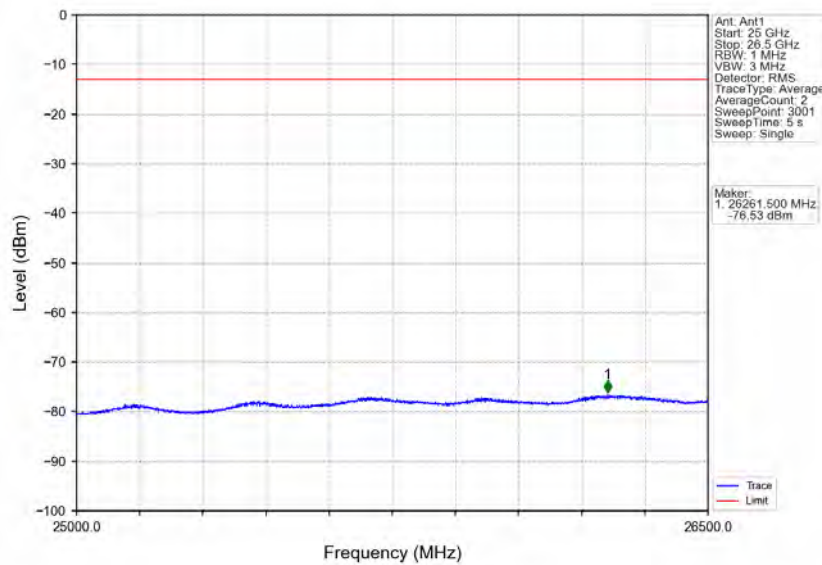
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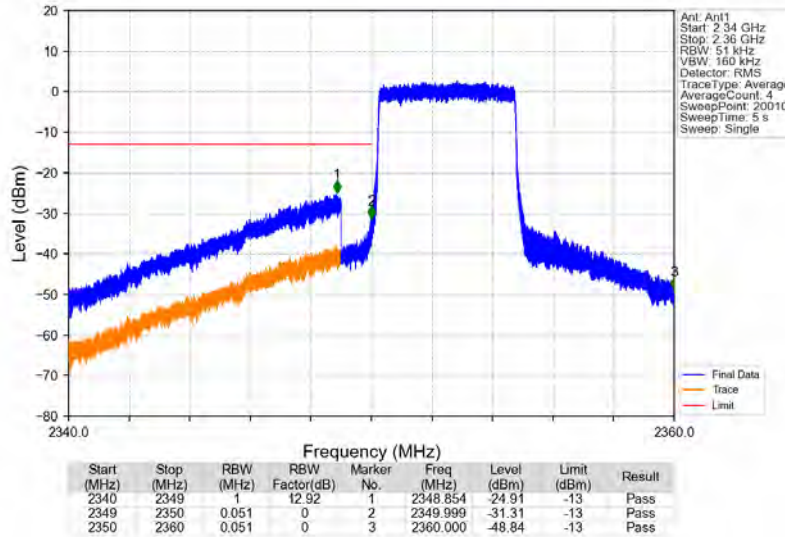


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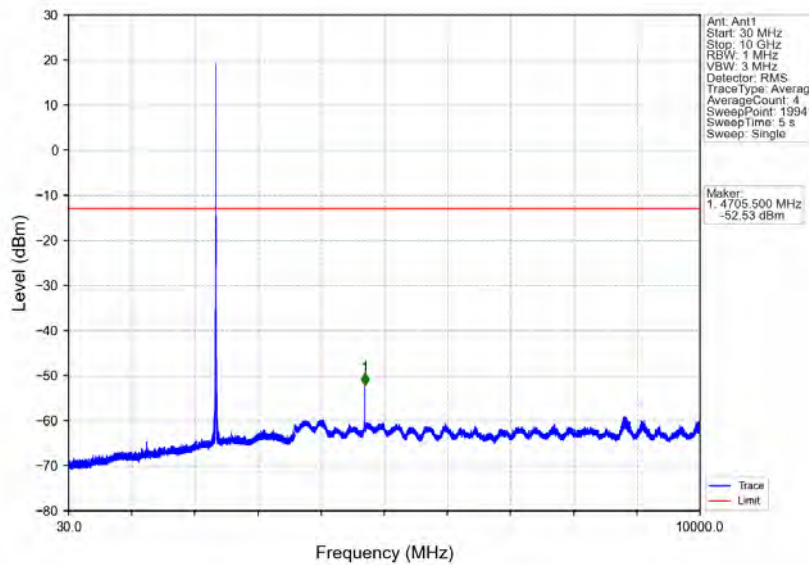
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Band40b\_5MHz\_64QAM\_LCH\_2352.5MHz\_RB\_25\_0\_NTNV



Band40b\_5MHz\_64QAM\_MCH\_2355MHz\_RB\_1\_0\_NTNV



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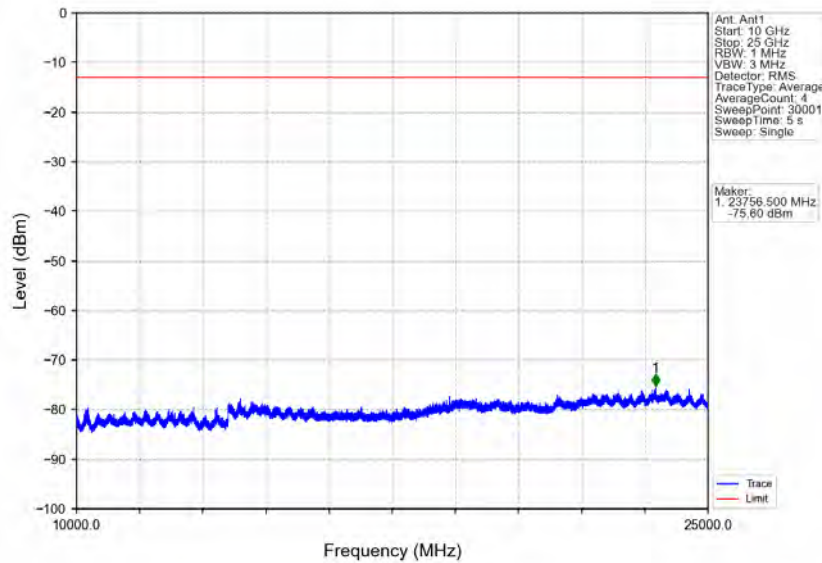
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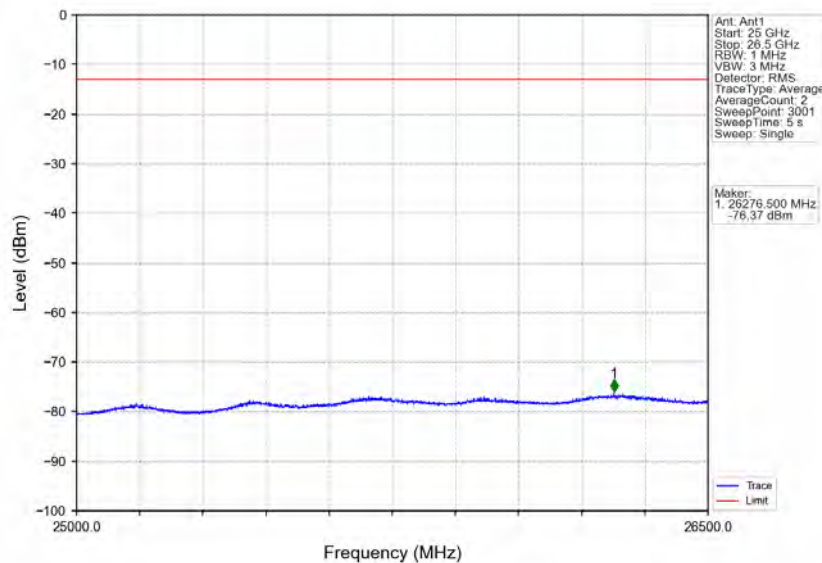
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Band40b\_5MHz\_64QAM\_MCH\_2355MHz\_RB\_1\_0\_NTNV



Band40b\_5MHz\_64QAM\_MCH\_2355MHz\_RB\_1\_0\_NTNV



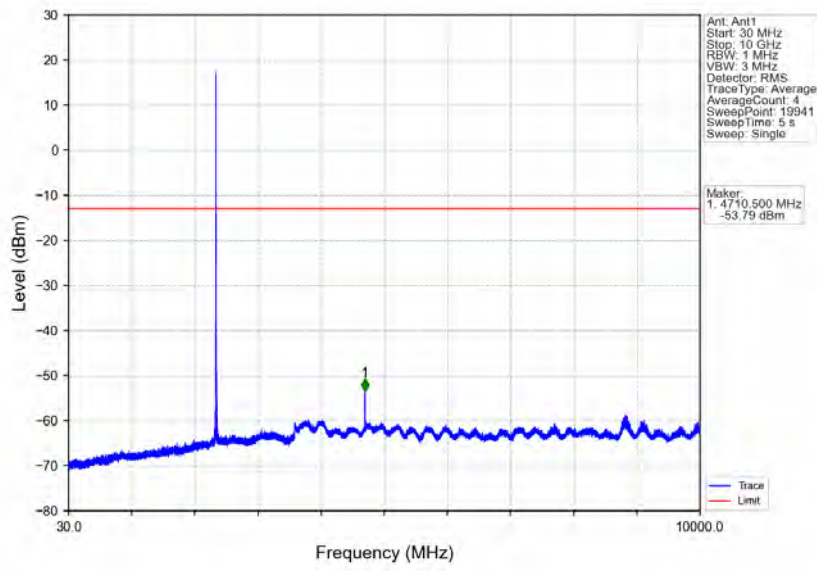
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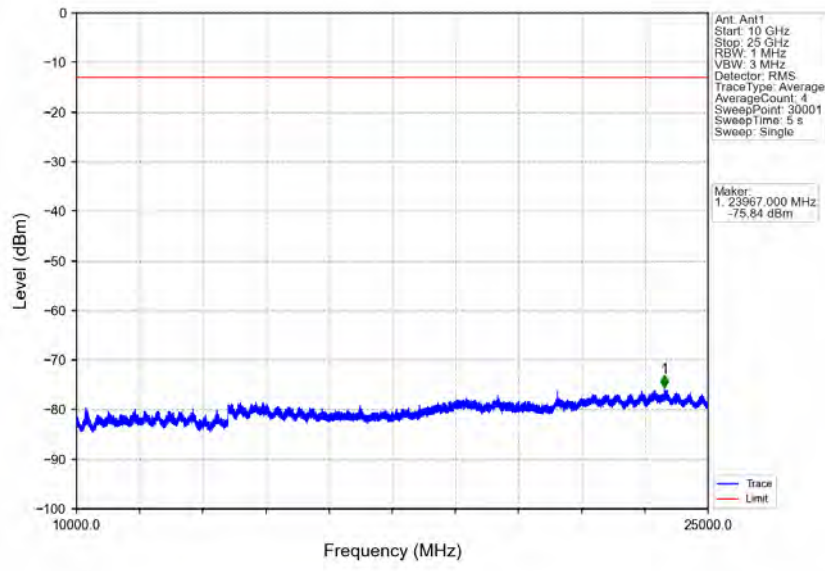
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Band40b\_5MHz\_64QAM\_HCH\_2357.5MHz\_RB\_1\_0\_NTNV



Band40b\_5MHz\_64QAM\_HCH\_2357.5MHz\_RB\_1\_0\_NTNV



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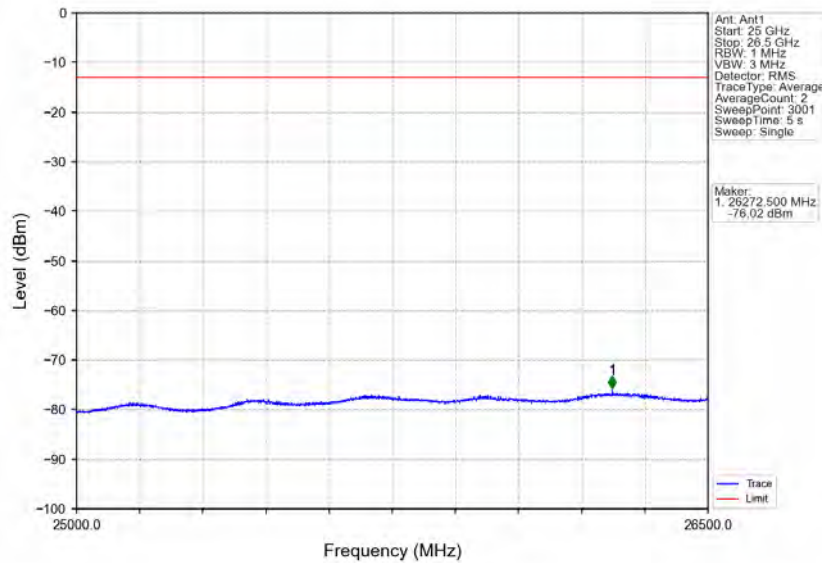
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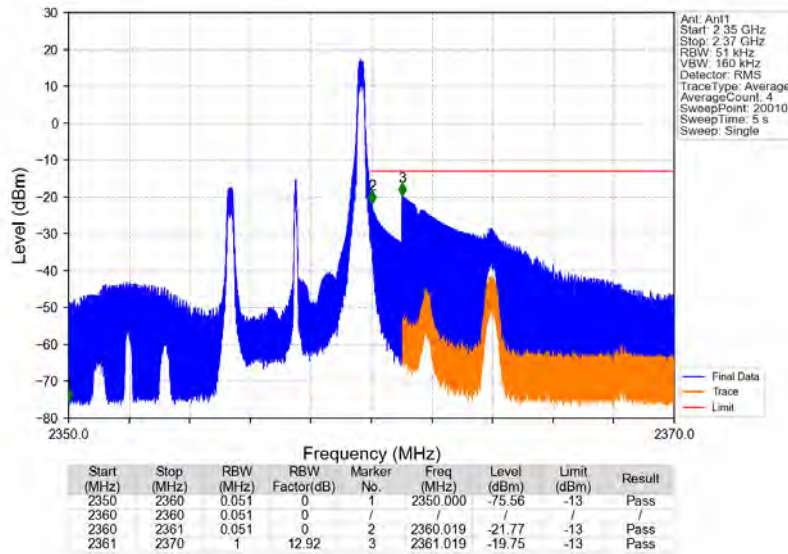




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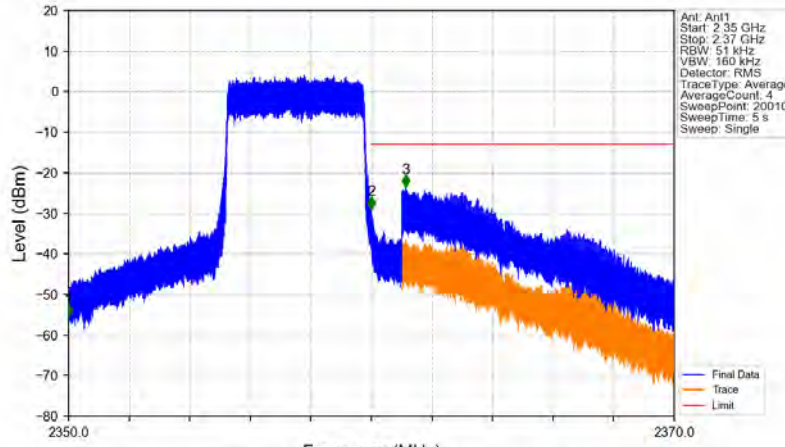
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Band40b\_5MHz\_64QAM\_HCH\_2357.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2350	2360	0.051	0	1	2350.000	-55.54	-13	Pass
2360	2361	0.051	0	2	2360.002	-28.95	-13	Pass
2361	2370	1	12.92	3	2361.139	-23.58	-13	Pass



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6.2 B40b\_10MHz

6.2.1 Test Result

Band: 40b / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2355	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2355	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	2355	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2355	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	2355	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2355	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		

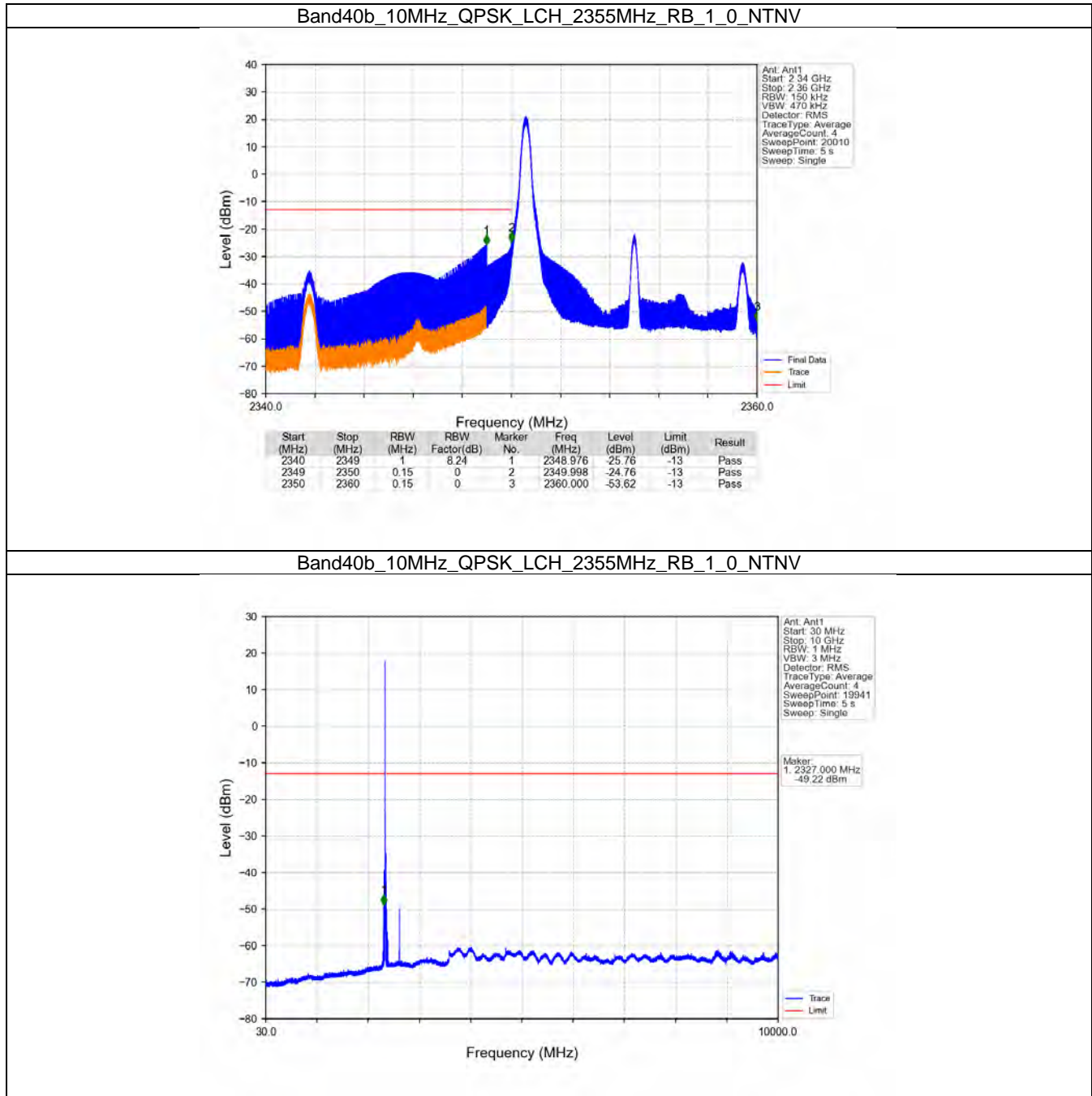


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6.2.2 Test Graph



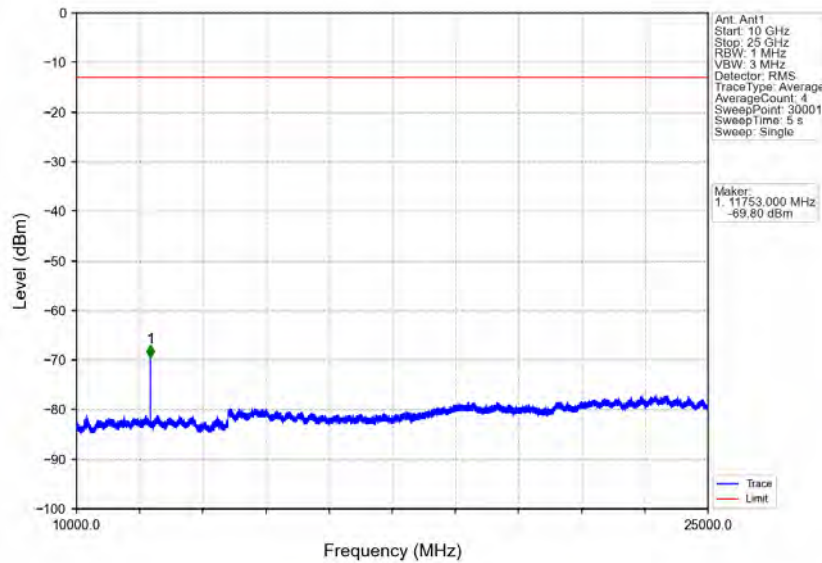
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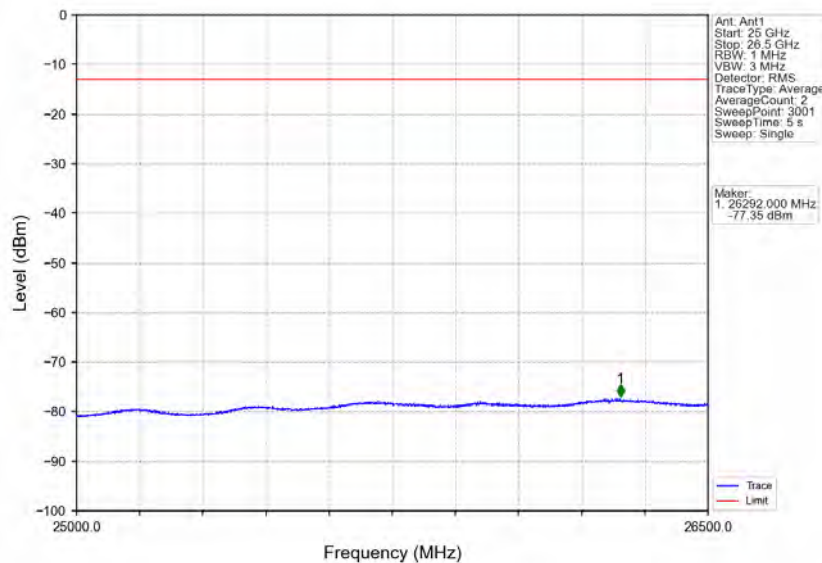
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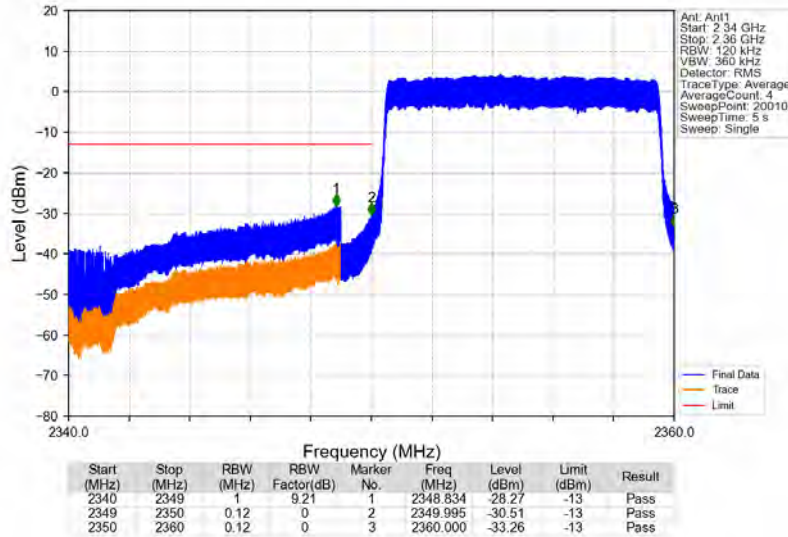
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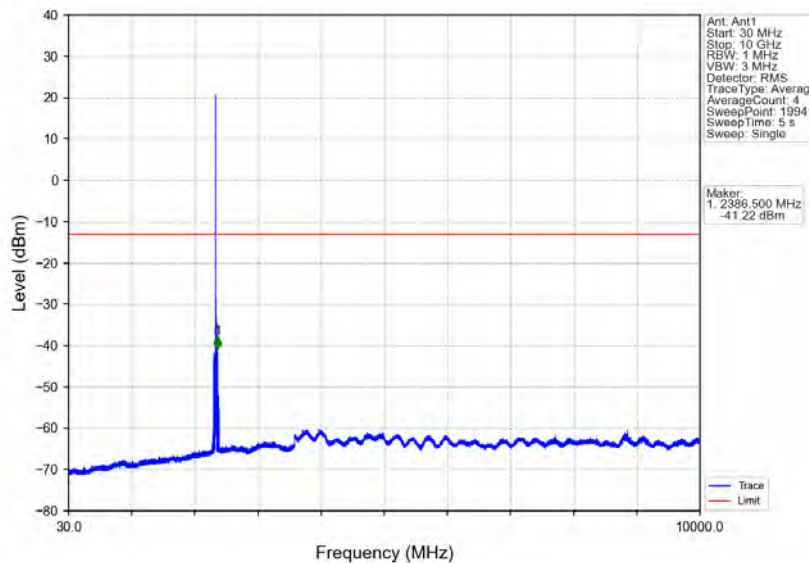
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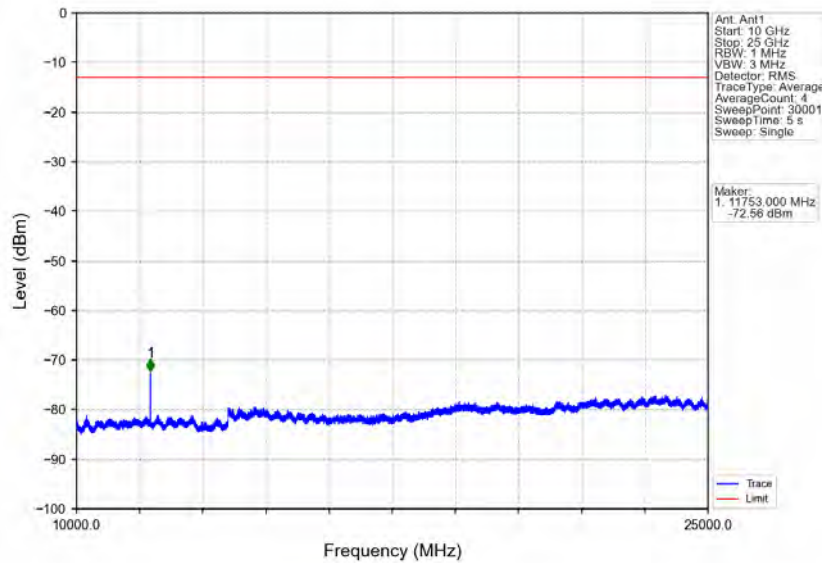
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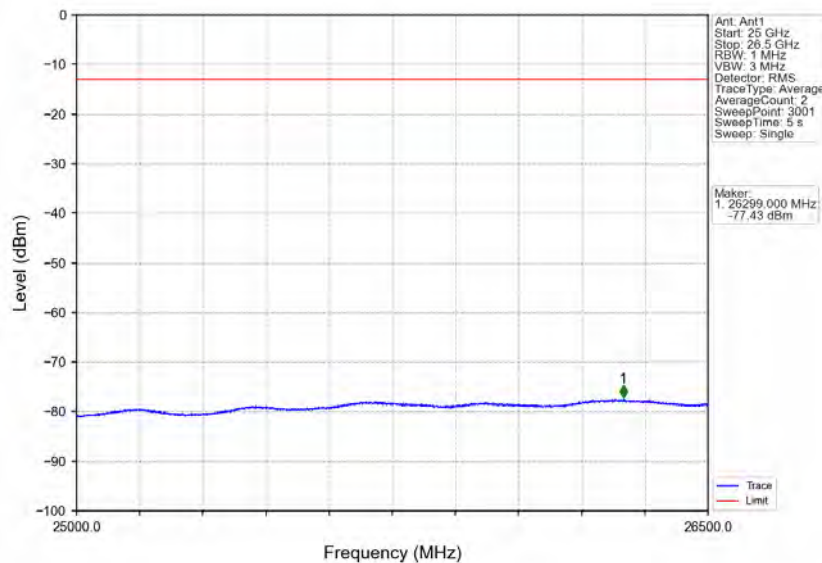


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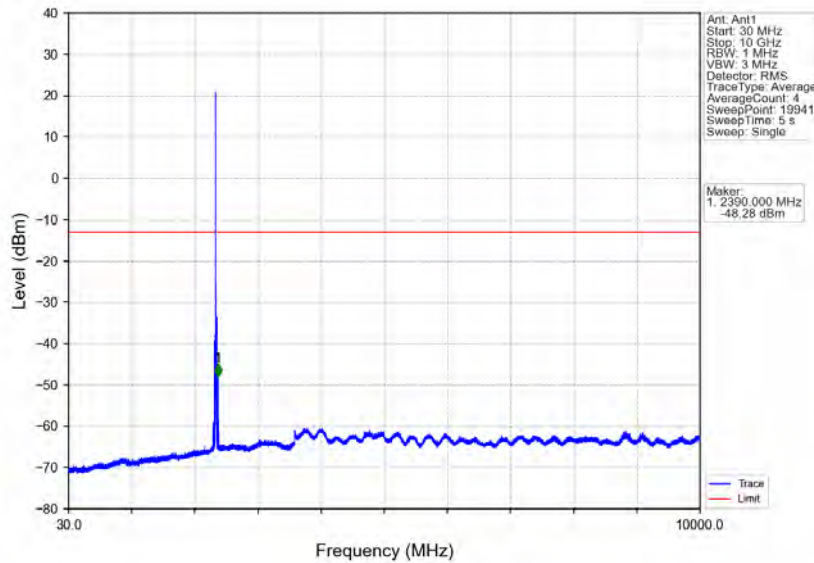
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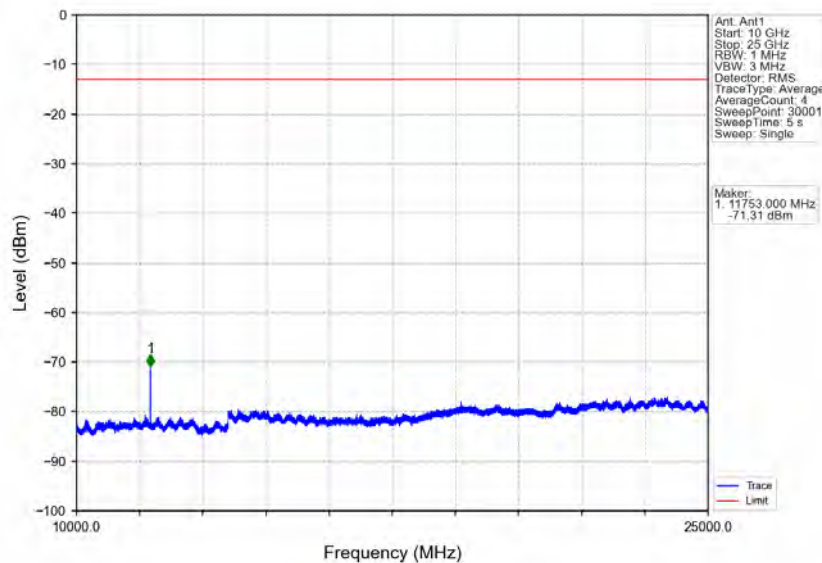
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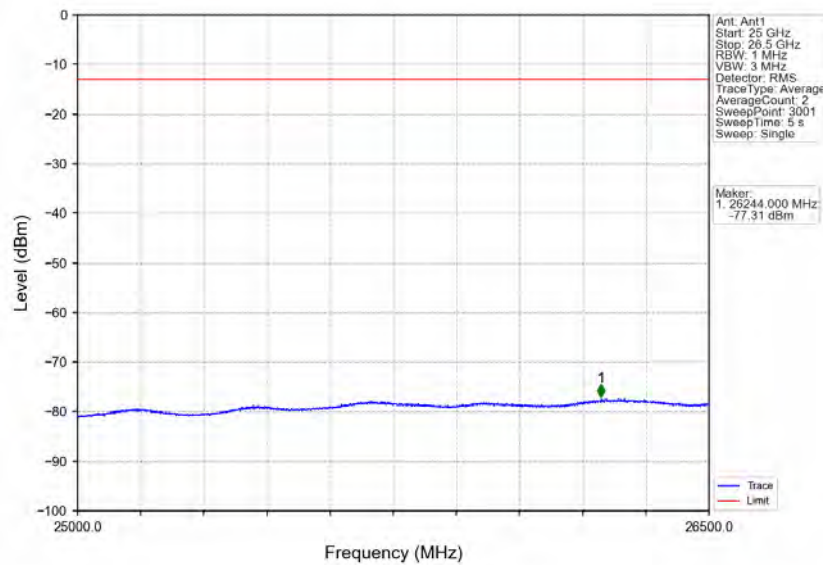
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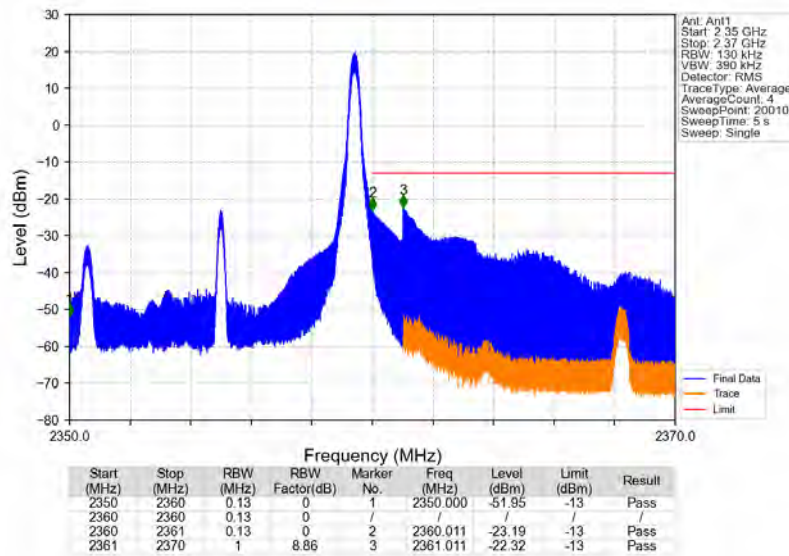
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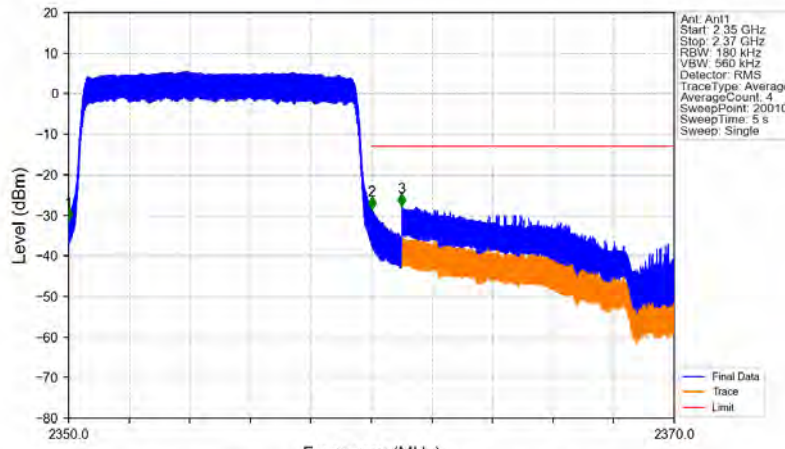
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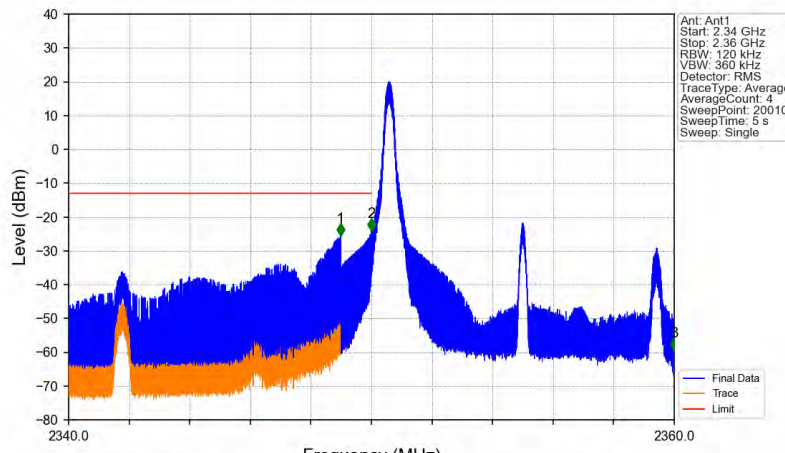
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### Band40b\_10MHz\_QPSK\_HCH\_2355MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2350	2360	0.18	0	1	2350.000	-31.38	-13	Pass
2360	2361	0.18	0	2	2360.012	-28.45	-13	Pass
2361	2370	1	7.45	3	2361.003	-27.74	-13	Pass

### Band40b\_10MHz\_16QAM\_LCH\_2355MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2340	2349	1	9.21	1	2348.973	-25.62	-13	Pass
2349	2350	0.12	0	2	2349.994	-24.08	-13	Pass
2350	2360	0.12	0	3	2360.000	-59.52	-13	Pass



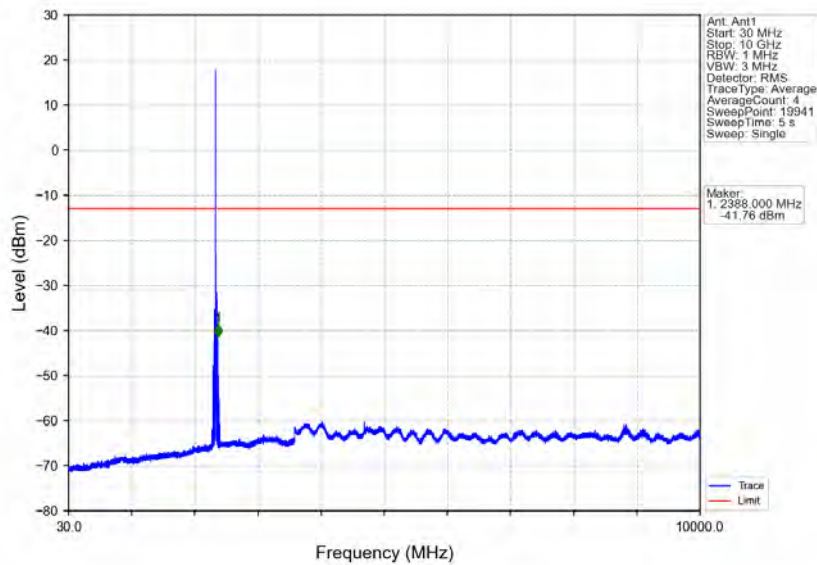
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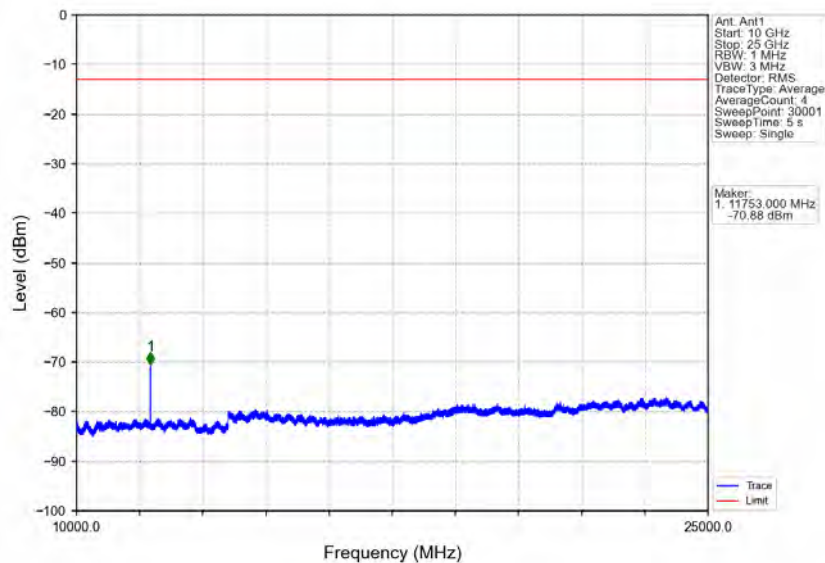
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Band40b\_10MHz\_16QAM\_LCH\_2355MHz\_RB\_1\_0\_NTNV



Band40b\_10MHz\_16QAM\_LCH\_2355MHz\_RB\_1\_0\_NTNV



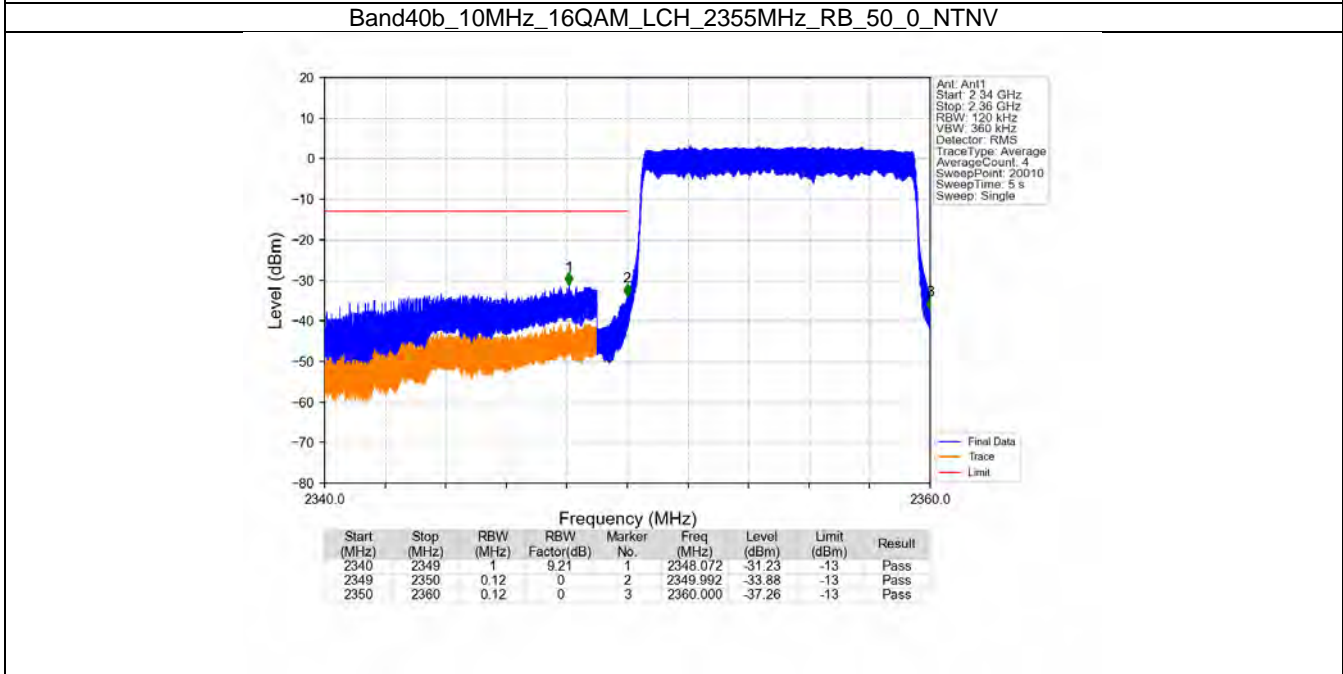
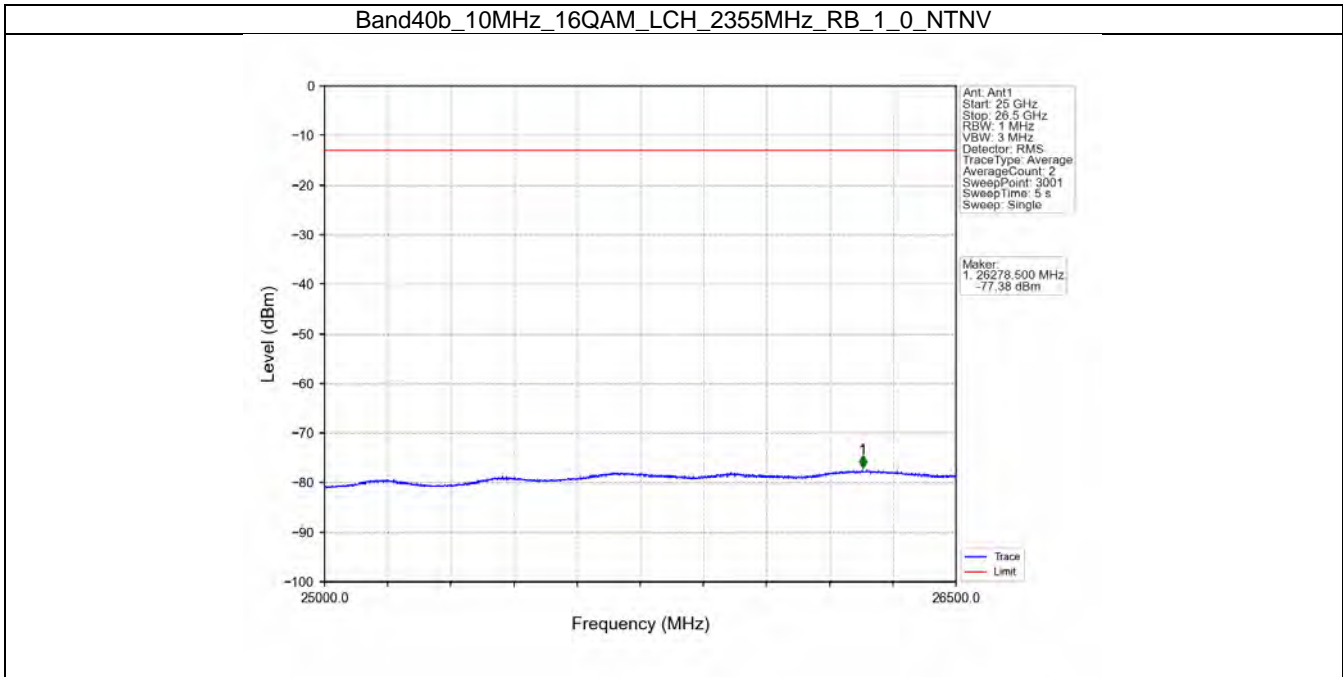
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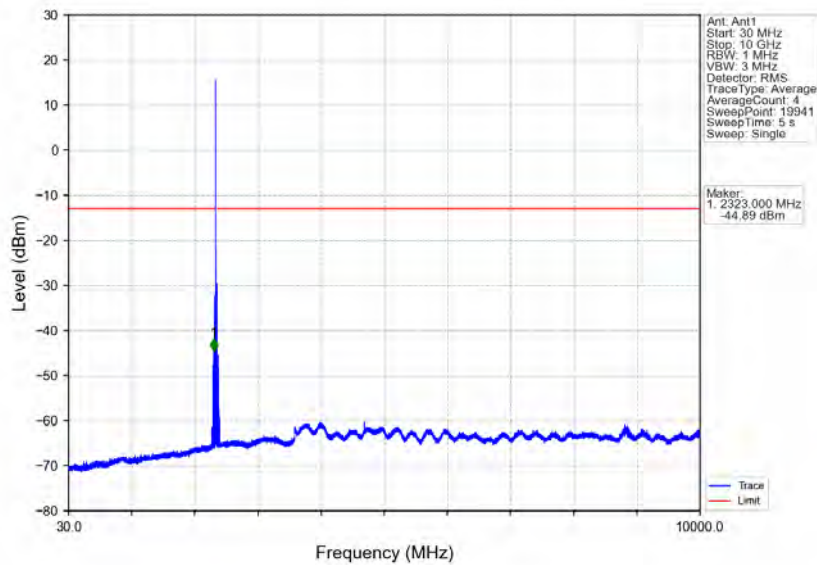
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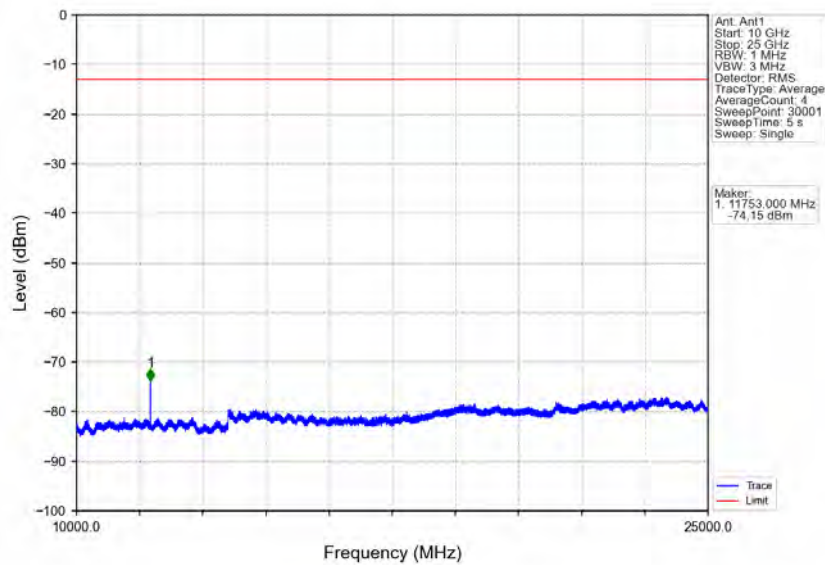
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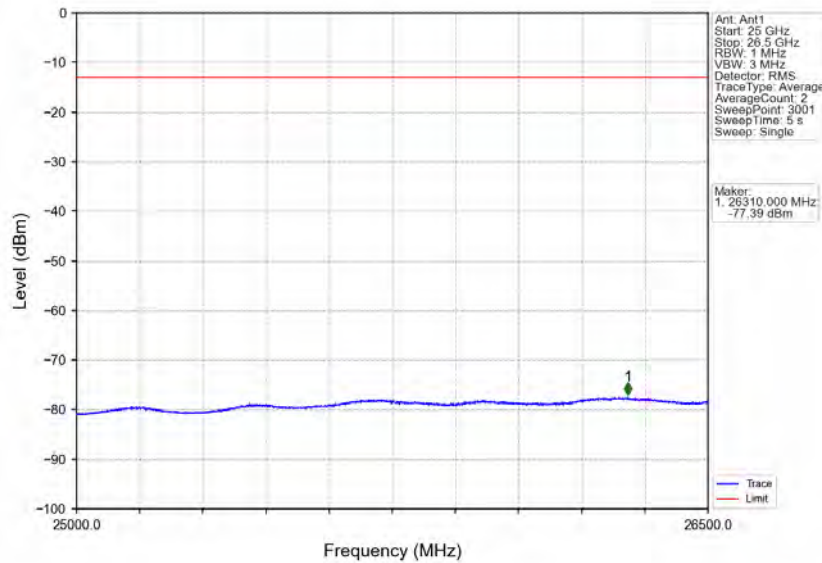
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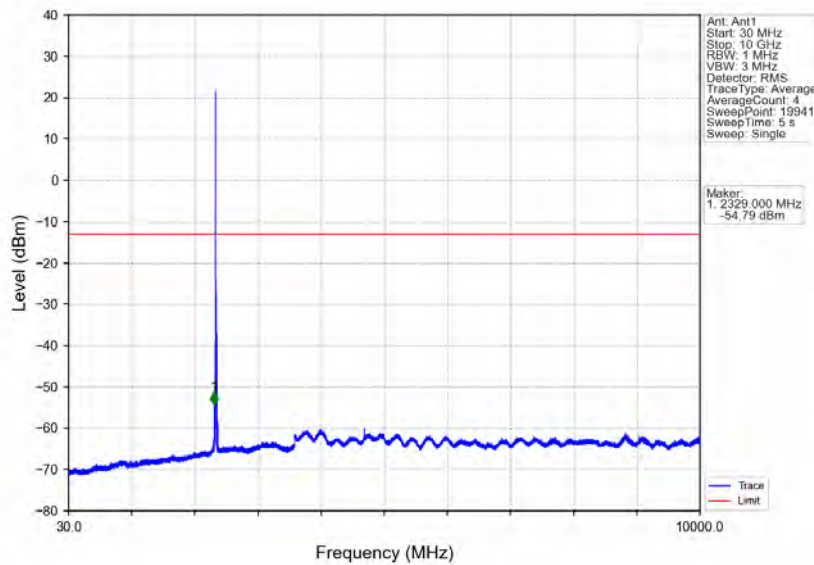


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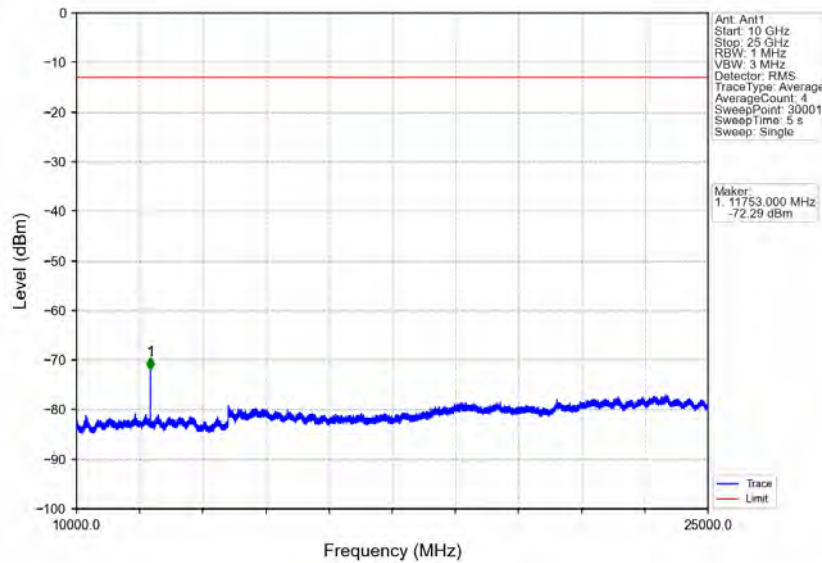
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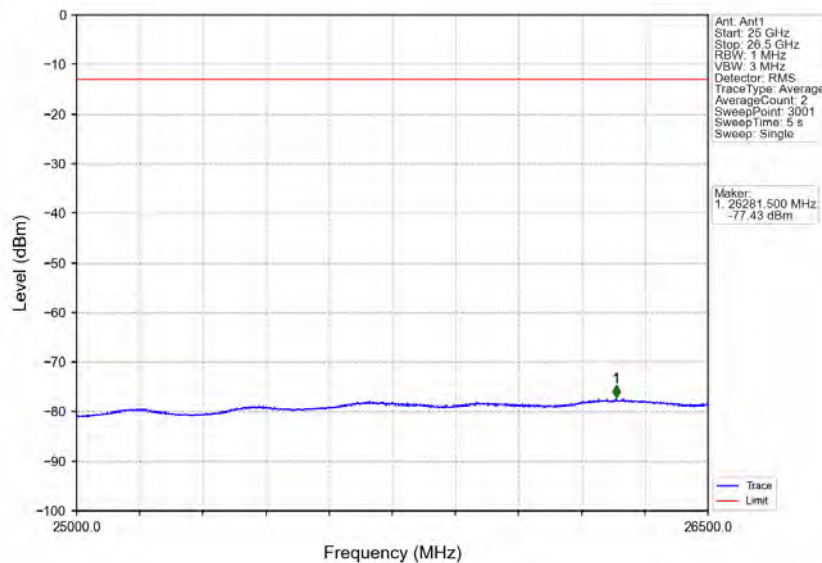
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Band40b\_10MHz\_16QAM\_HCH\_2355MHz\_RB\_1\_0\_NTNV



Band40b\_10MHz\_16QAM\_HCH\_2355MHz\_RB\_1\_0\_NTNV



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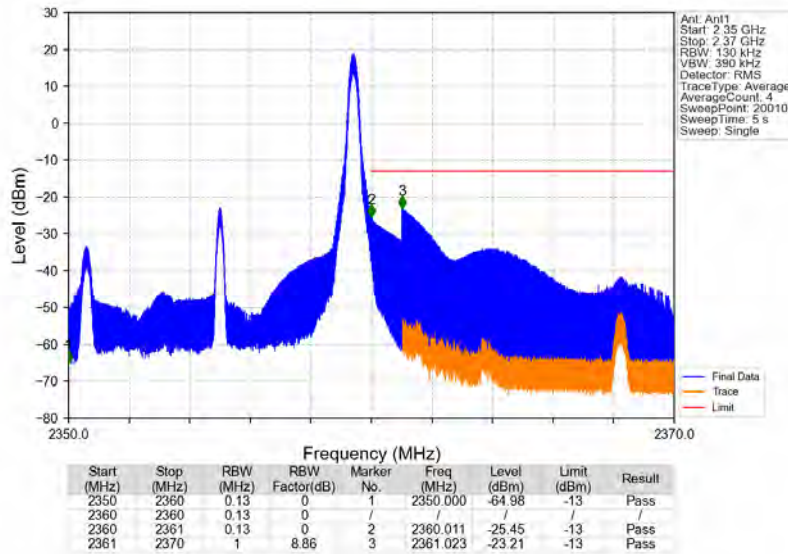
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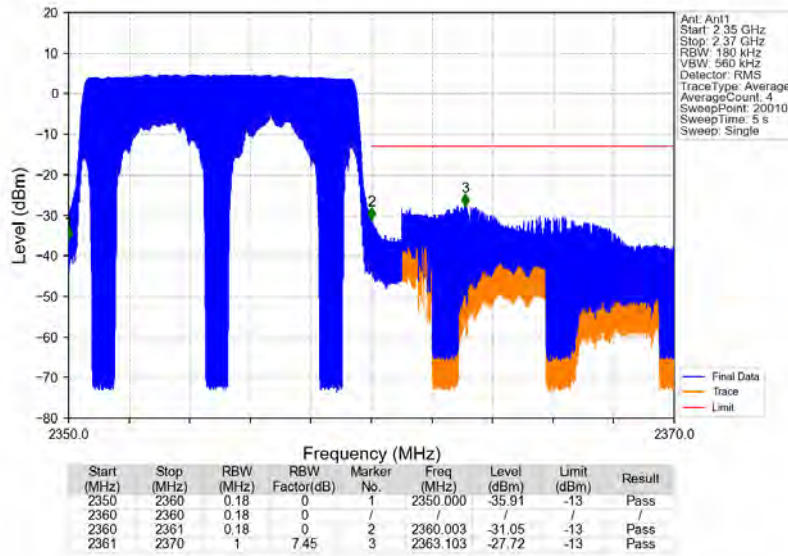
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Band40b\_10MHz\_16QAM\_HCH\_2355MHz\_RB\_1\_49\_NTNV



Band40b\_10MHz\_16QAM\_HCH\_2355MHz\_RB\_50\_0\_NTNV

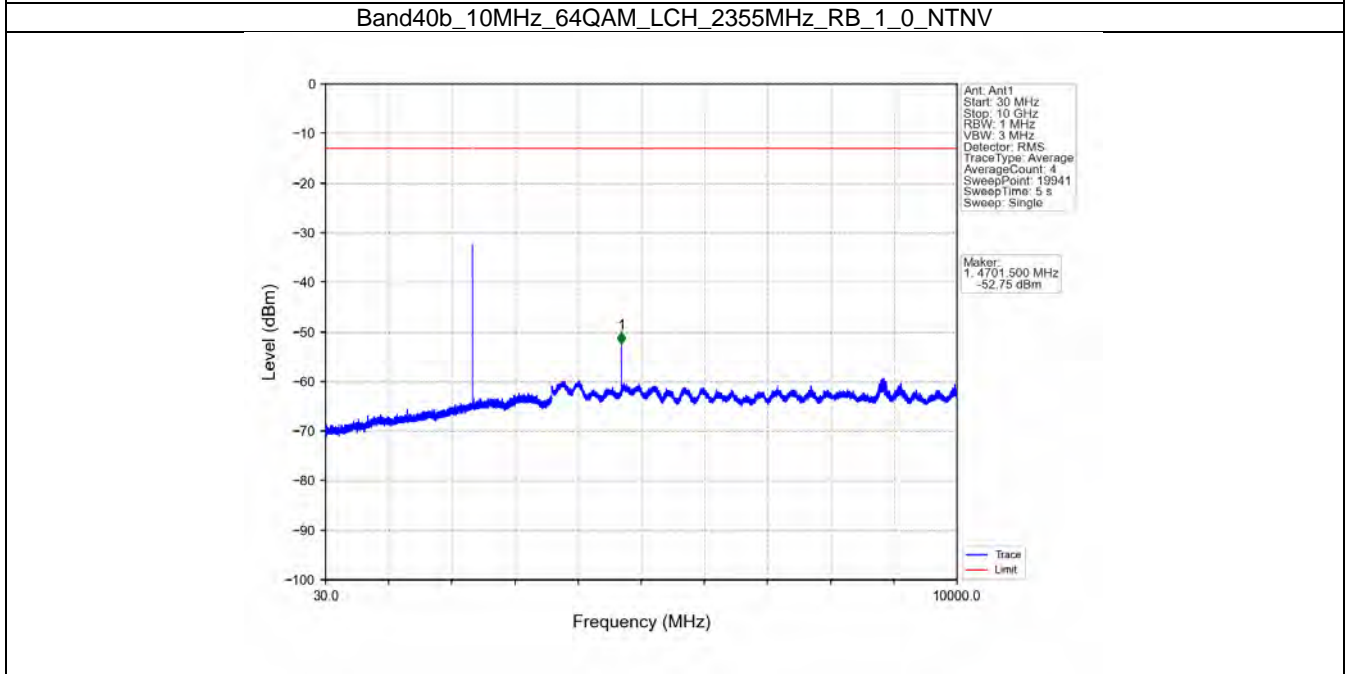
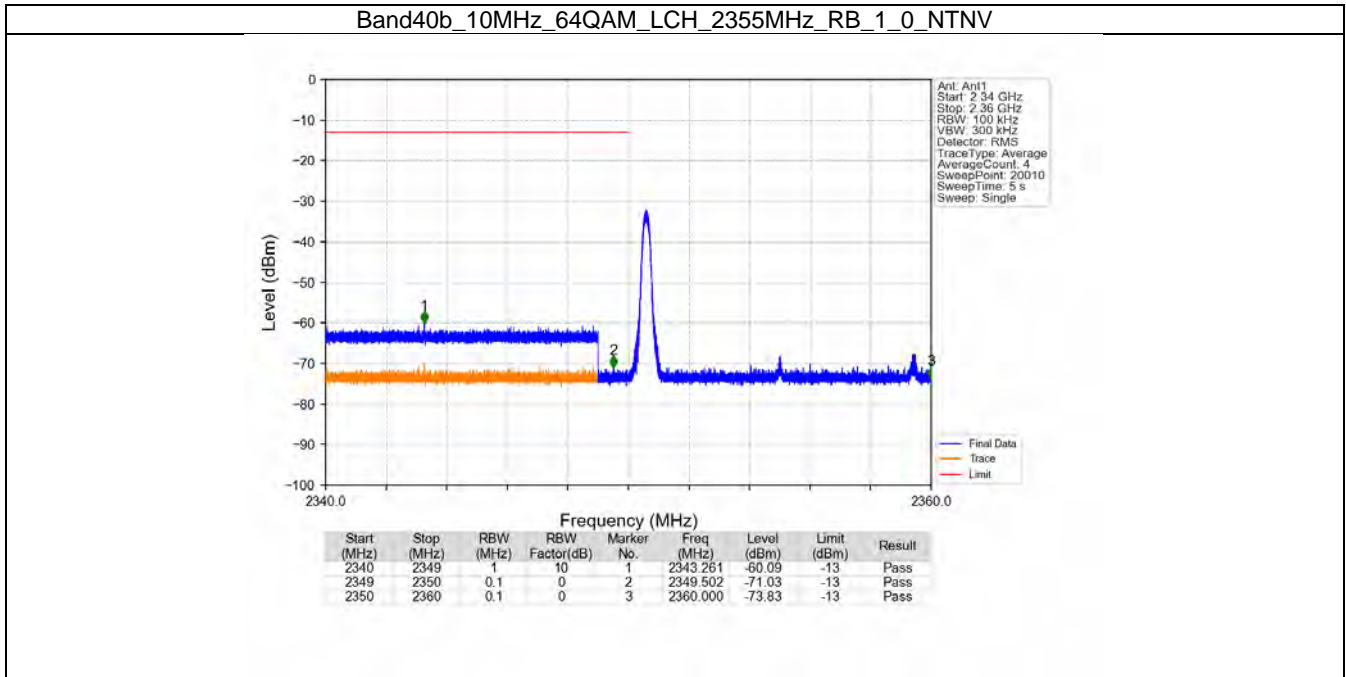


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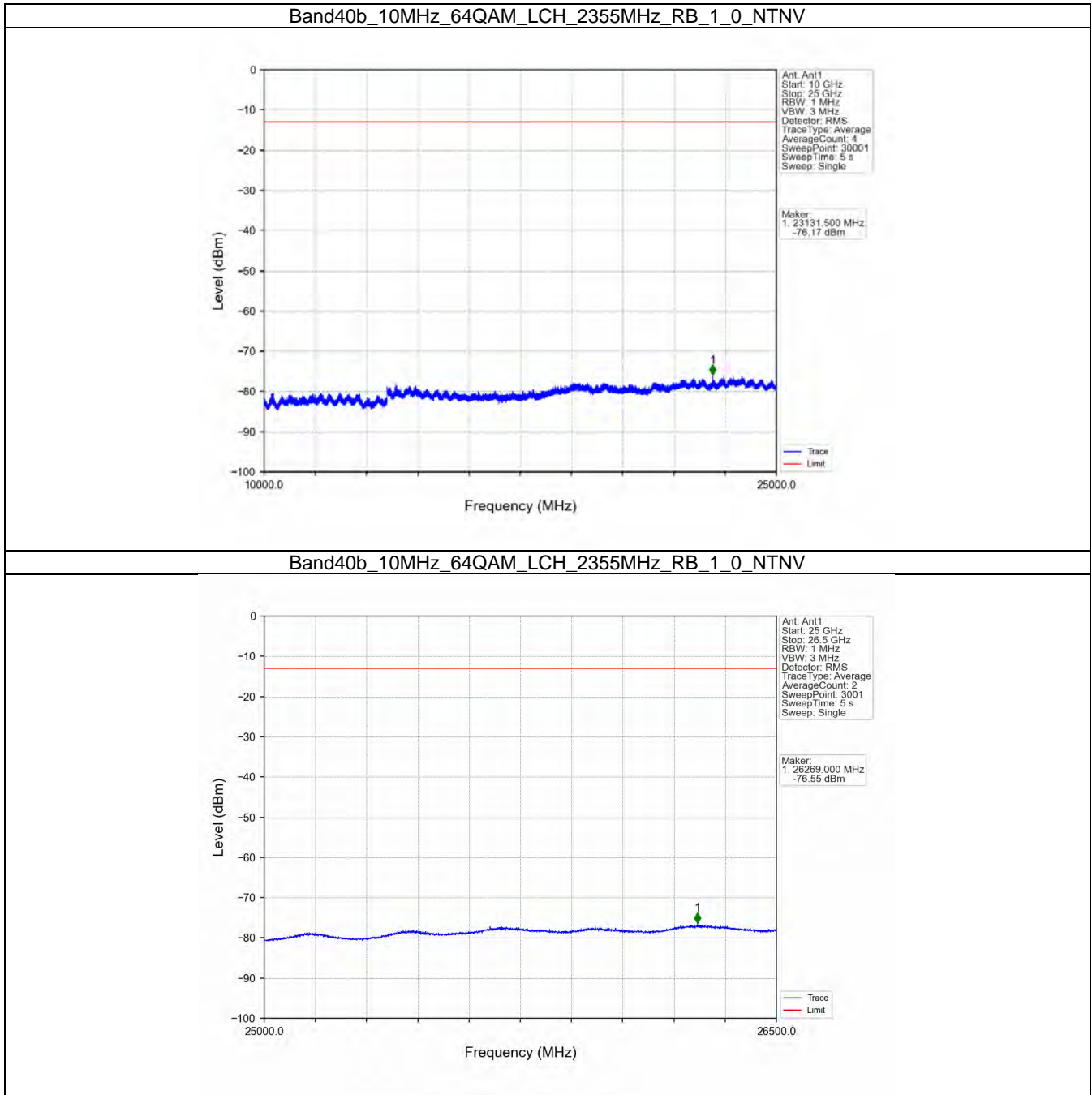
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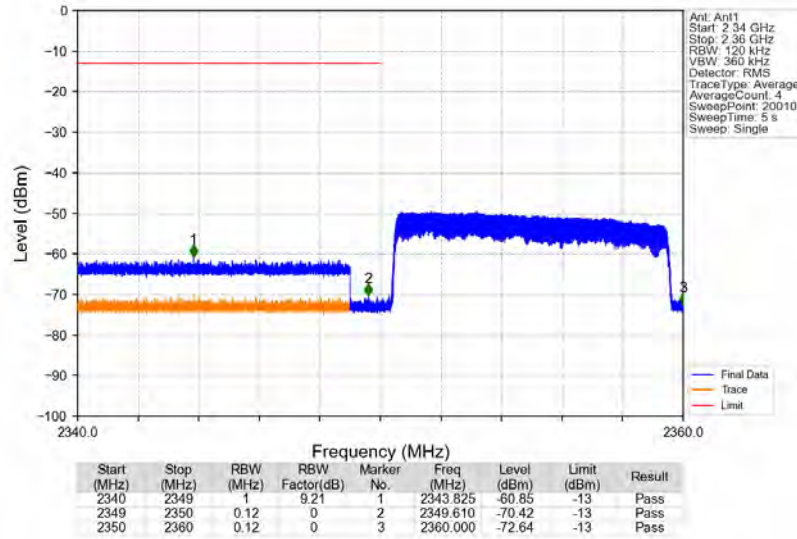
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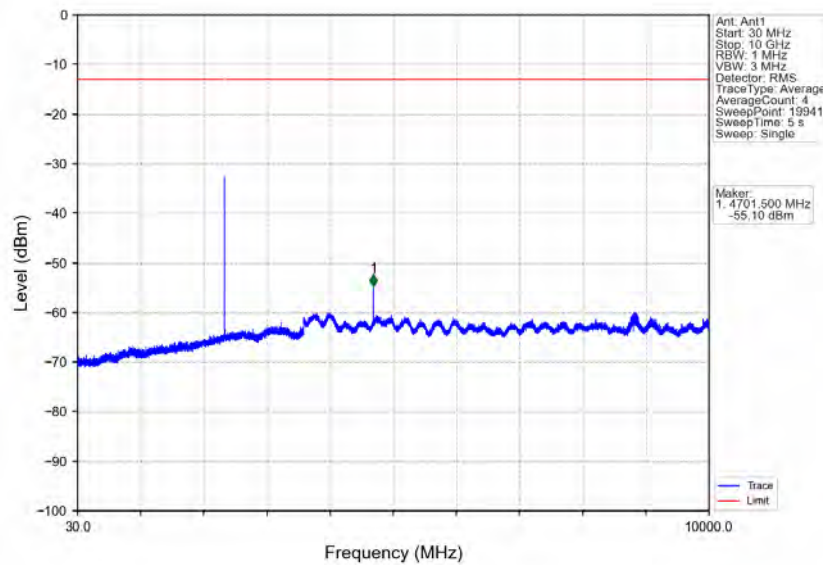
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Band40b\_10MHz\_64QAM\_MCH\_2355MHz\_RB\_1\_0\_NTNV



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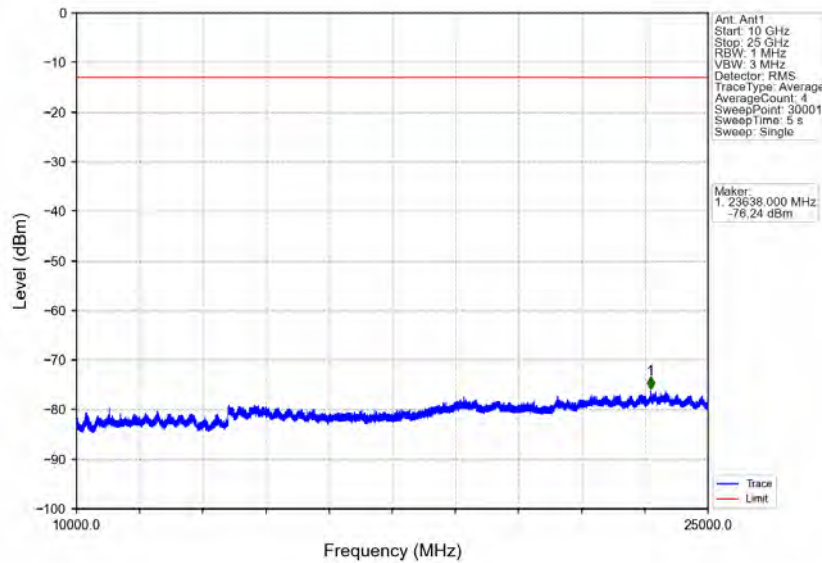
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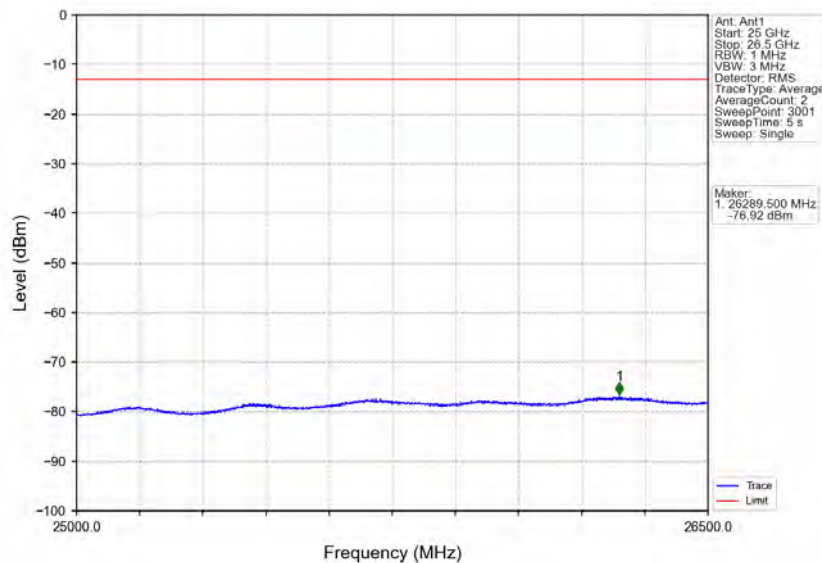
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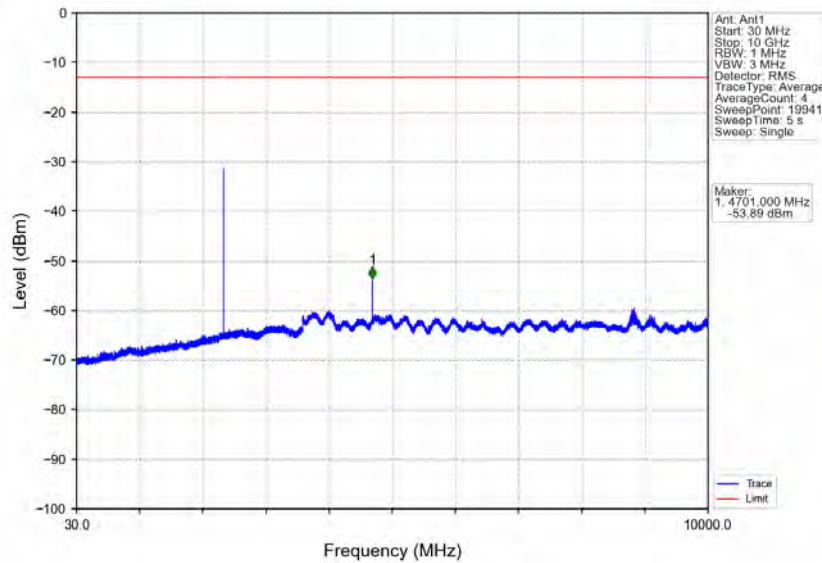
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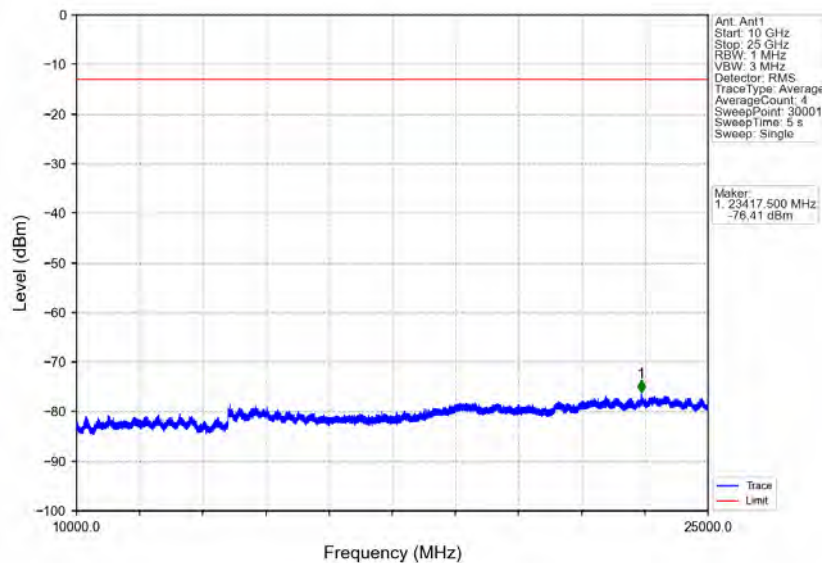
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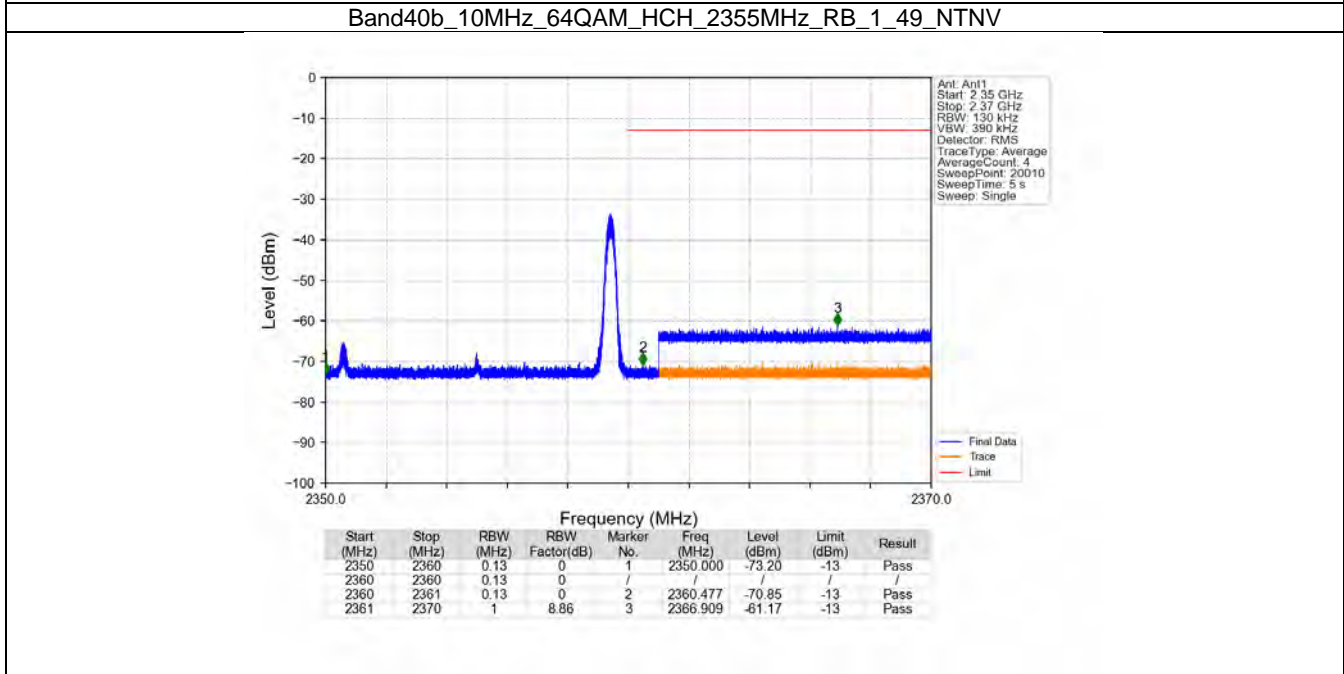
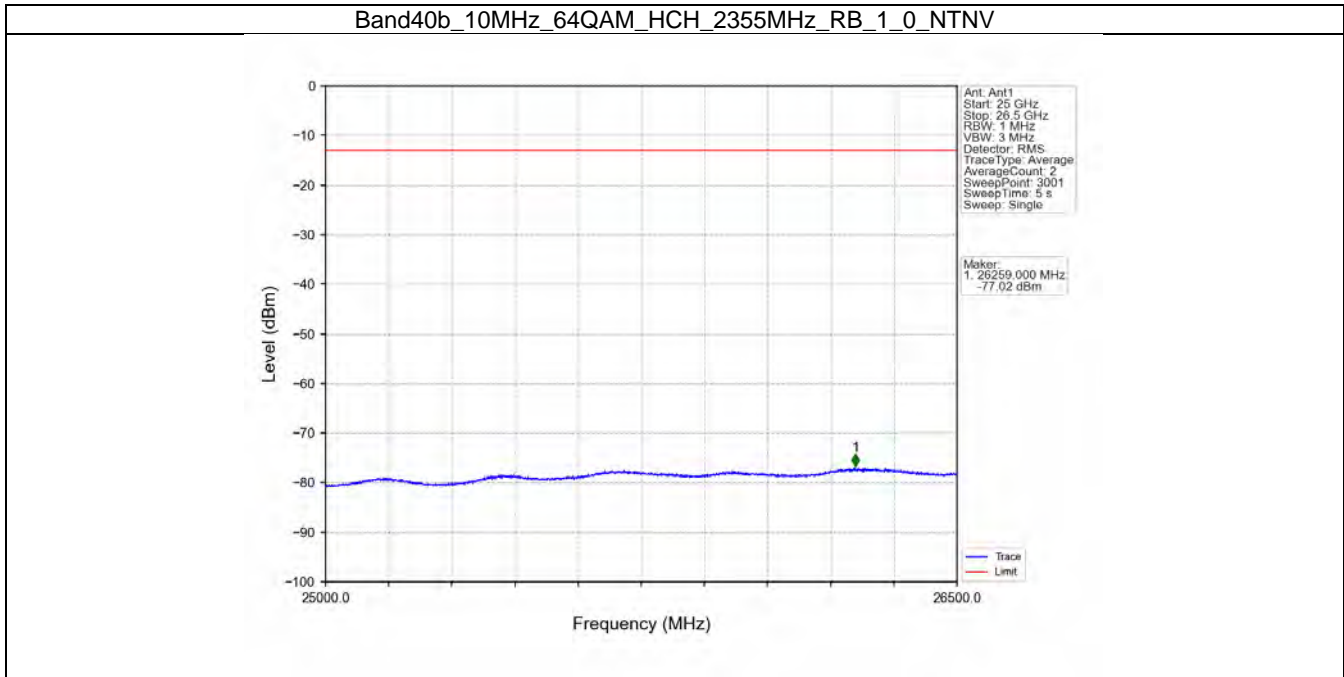
Band40b\_10MHz\_64QAM\_HCH\_2355MHz\_RB\_1\_0\_NTNV



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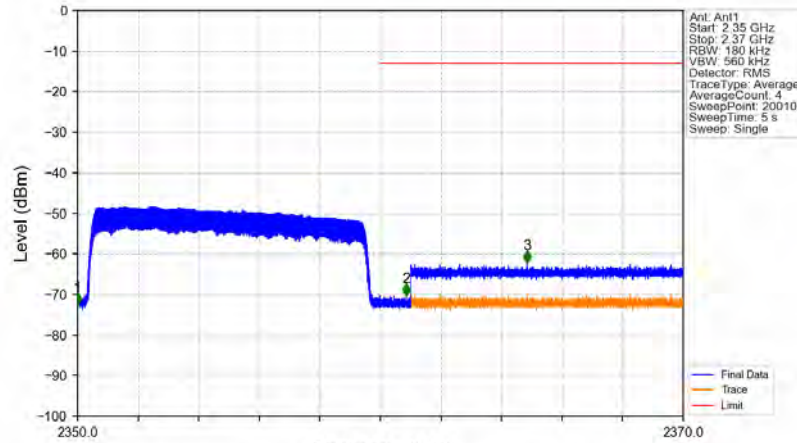
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Band40b\_10MHz\_64QAM\_HCH\_2355MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2350	2360	0.18	0	1	2350.000	-72.67	-13	Pass
2360	2361	0.18	0	2	2360.862	-70.34	-13	Pass
2361	2370	1	7.45	3	2364.840	-62.30	-13	Pass



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