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Appendix B.15

LTE Band 30



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B30_5MHz_EIRP

1.1.1 Test Result

Band: 30 / 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	12.62	-2.35	10.27	<=23.98	Pass		
			13	12.37	-2.35	10.02	<=23.98	Pass		
			24	12.4	-2.35	10.05	<=23.98	Pass		
		12	0	12.25	-2.35	9.9	<=23.98	Pass		
			6	12.14	-2.35	9.79	<=23.98	Pass		
			13	12.14	-2.35	9.79	<=23.98	Pass		
		25	0	12.23	-2.35	9.88	<=23.98	Pass		
		2310	1	0	12.59	-2.35	10.24	<=23.98	Pass	
				13	12.47	-2.35	10.12	<=23.98	Pass	
	24			12.68	-2.35	10.33	<=23.98	Pass		
	12		0	12.25	-2.35	9.9	<=23.98	Pass		
			6	12.23	-2.35	9.88	<=23.98	Pass		
			13	12.31	-2.35	9.96	<=23.98	Pass		
	25		0	12.33	-2.35	9.98	<=23.98	Pass		
	2312.5		1	0	12.68	-2.35	10.33	<=23.98	Pass	
				13	12.71	-2.35	10.36	<=23.98	Pass	
		24		12.99	-2.35	10.64	<=23.98	Pass		
		12	0	12.41	-2.35	10.06	<=23.98	Pass		
			6	12.43	-2.35	10.08	<=23.98	Pass		
			13	12.57	-2.35	10.22	<=23.98	Pass		
		25	0	12.51	-2.35	10.16	<=23.98	Pass		
		16QAM	2307.5	1	0	12.83	-2.35	10.48	<=23.98	Pass
					13	12.56	-2.35	10.21	<=23.98	Pass
	24				12.62	-2.35	10.27	<=23.98	Pass	
12	0			11.78	-2.35	9.43	<=23.98	Pass		
	6			11.68	-2.35	9.33	<=23.98	Pass		
	13			11.67	-2.35	9.32	<=23.98	Pass		
25	0			11.76	-2.35	9.41	<=23.98	Pass		
2310	1			0	12.64	-2.35	10.29	<=23.98	Pass	
				13	12.52	-2.35	10.17	<=23.98	Pass	
			24	12.72	-2.35	10.37	<=23.98	Pass		
	12		0	11.76	-2.35	9.41	<=23.98	Pass		
			6	11.73	-2.35	9.38	<=23.98	Pass		
			13	11.82	-2.35	9.47	<=23.98	Pass		
	25		0	11.75	-2.35	9.4	<=23.98	Pass		
	2312.5		1	0	12.55	-2.35	10.2	<=23.98	Pass	
				13	12.59	-2.35	10.24	<=23.98	Pass	
24				12.88	-2.35	10.53	<=23.98	Pass		
12			0	11.85	-2.35	9.5	<=23.98	Pass		



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			6	11.9	-2.35	9.55	<=23.98	Pass	
			13	12.04	-2.35	9.69	<=23.98	Pass	
		25	0	11.99	-2.35	9.64	<=23.98	Pass	
64QAM	2307.5	1	0	11.92	-2.35	9.57	<=23.98	Pass	
			13	11.65	-2.35	9.3	<=23.98	Pass	
			24	11.69	-2.35	9.34	<=23.98	Pass	
		12	0	10.71	-2.35	8.36	<=23.98	Pass	
			6	10.6	-2.35	8.25	<=23.98	Pass	
			13	10.58	-2.35	8.23	<=23.98	Pass	
		25	0	10.72	-2.35	8.37	<=23.98	Pass	
		2310	1	0	11.98	-2.35	9.63	<=23.98	Pass
				13	11.88	-2.35	9.53	<=23.98	Pass
	24			12.06	-2.35	9.71	<=23.98	Pass	
	12		0	10.65	-2.35	8.3	<=23.98	Pass	
			6	10.63	-2.35	8.28	<=23.98	Pass	
			13	10.71	-2.35	8.36	<=23.98	Pass	
	25		0	10.72	-2.35	8.37	<=23.98	Pass	
	2312.5		1	0	12.06	-2.35	9.71	<=23.98	Pass
				13	12.1	-2.35	9.75	<=23.98	Pass
		24		12.38	-2.35	10.03	<=23.98	Pass	
		12	0	10.94	-2.35	8.59	<=23.98	Pass	
			6	10.98	-2.35	8.63	<=23.98	Pass	
			13	11.12	-2.35	8.77	<=23.98	Pass	
		25	0	10.91	-2.35	8.56	<=23.98	Pass	

Note1: EIRP=Conducted Power+Antenna Gain



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1.2 B30_5MHz_EIRP/10MHz

1.2.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNv										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/10MHz (dBm/5MHz)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2307.5	1	0	13.76	-2.35	11.41	<=23.98	Pass		
			13	14.09	-2.35	11.74	<=23.98	Pass		
			24	14.08	-2.35	11.73	<=23.98	Pass		
		12	0	12.92	-2.35	10.57	<=23.98	Pass		
			6	13.02	-2.35	10.67	<=23.98	Pass		
			13	13.07	-2.35	10.72	<=23.98	Pass		
		25	0	13.05	-2.35	10.70	<=23.98	Pass		
		2310	1	0	13.81	-2.35	11.46	<=23.98	Pass	
				13	14.32	-2.35	11.97	<=23.98	Pass	
	24			14.44	-2.35	12.09	<=23.98	Pass		
	12		0	13.01	-2.35	10.66	<=23.98	Pass		
			6	13.20	-2.35	10.85	<=23.98	Pass		
			13	13.33	-2.35	10.98	<=23.98	Pass		
	25		0	13.20	-2.35	10.85	<=23.98	Pass		
	2312.5		1	0	13.91	-2.35	11.56	<=23.98	Pass	
				13	14.57	-2.35	12.22	<=23.98	Pass	
		24		14.76	-2.35	12.41	<=23.98	Pass		
		12	0	13.18	-2.35	10.83	<=23.98	Pass		
			6	13.43	-2.35	11.08	<=23.98	Pass		
			13	13.60	-2.35	11.25	<=23.98	Pass		
		25	0	13.42	-2.35	11.07	<=23.98	Pass		
		16QAM	2307.5	1	0	12.87	-2.35	10.52	<=23.98	Pass
					13	13.19	-2.35	10.84	<=23.98	Pass
	24				13.20	-2.35	10.85	<=23.98	Pass	
	12			0	11.93	-2.35	9.58	<=23.98	Pass	
				6	12.03	-2.35	9.68	<=23.98	Pass	
				13	12.08	-2.35	9.73	<=23.98	Pass	
25	0			12.05	-2.35	9.70	<=23.98	Pass		
2310	1			0	12.95	-2.35	10.60	<=23.98	Pass	
				13	13.44	-2.35	11.09	<=23.98	Pass	
			24	13.58	-2.35	11.23	<=23.98	Pass		
	12		0	11.99	-2.35	9.64	<=23.98	Pass		
			6	12.18	-2.35	9.83	<=23.98	Pass		
			13	12.31	-2.35	9.96	<=23.98	Pass		
	25		0	12.15	-2.35	9.80	<=23.98	Pass		
	2312.5		1	0	13.11	-2.35	10.76	<=23.98	Pass	
				13	13.78	-2.35	11.43	<=23.98	Pass	
24				13.96	-2.35	11.61	<=23.98	Pass		
12			0	12.16	-2.35	9.81	<=23.98	Pass		
			6	12.40	-2.35	10.05	<=23.98	Pass		
			13	12.58	-2.35	10.23	<=23.98	Pass		



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		25	0	12.40	-2.35	10.05	<=23.98	Pass
64QAM	2307.5	1	0	11.99	-2.35	9.64	<=23.98	Pass
			13	12.30	-2.35	9.95	<=23.98	Pass
			24	12.31	-2.35	9.96	<=23.98	Pass
			0	10.94	-2.35	8.59	<=23.98	Pass
		12	6	11.04	-2.35	8.69	<=23.98	Pass
			13	11.10	-2.35	8.75	<=23.98	Pass
	25		0	11.02	-2.35	8.67	<=23.98	Pass
	2310	1	0	11.81	-2.35	9.46	<=23.98	Pass
			13	12.33	-2.35	9.98	<=23.98	Pass
			24	12.47	-2.35	10.12	<=23.98	Pass
		12	0	10.88	-2.35	8.53	<=23.98	Pass
			6	11.07	-2.35	8.72	<=23.98	Pass
			13	11.22	-2.35	8.87	<=23.98	Pass
	25	0	11.07	-2.35	8.72	<=23.98	Pass	
	2312.5	1	0	11.97	-2.35	9.62	<=23.98	Pass
			13	12.60	-2.35	10.25	<=23.98	Pass
			24	12.87	-2.35	10.52	<=23.98	Pass
		12	0	11.12	-2.35	8.77	<=23.98	Pass
			6	11.37	-2.35	9.02	<=23.98	Pass
			13	11.57	-2.35	9.22	<=23.98	Pass
	25	0	11.31	-2.35	8.96	<=23.98	Pass	

Note1: EIRP/10MHz=Conducted Power+Antenna Gain



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1.3 B30_10MHz_EIRP

1.3.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2310	1	0	12.6	-2.35	10.25	<=23.98	Pass		
			25	12.54	-2.35	10.19	<=23.98	Pass		
			49	12.99	-2.35	10.64	<=23.98	Pass		
		25	0	12.51	-2.35	10.16	<=23.98	Pass		
			13	12.57	-2.35	10.22	<=23.98	Pass		
			25	12.76	-2.35	10.41	<=23.98	Pass		
		50	0	12.66	-2.35	10.31	<=23.98	Pass		
		16QAM	2310	1	0	12.41	-2.35	10.06	<=23.98	Pass
					25	12.35	-2.35	10	<=23.98	Pass
49	12.81				-2.35	10.46	<=23.98	Pass		
25	0			11.55	-2.35	9.2	<=23.98	Pass		
	13			11.61	-2.35	9.26	<=23.98	Pass		
	25			11.8	-2.35	9.45	<=23.98	Pass		
50	0			11.64	-2.35	9.29	<=23.98	Pass		
64QAM	2310			1	0	11.81	-2.35	9.46	<=23.98	Pass
					25	11.76	-2.35	9.41	<=23.98	Pass
		49	12.22		-2.35	9.87	<=23.98	Pass		
		25	0	10.51	-2.35	8.16	<=23.98	Pass		
			13	10.56	-2.35	8.21	<=23.98	Pass		
			25	10.75	-2.35	8.4	<=23.98	Pass		
		50	0	10.62	-2.35	8.27	<=23.98	Pass		

Note1: EIRP=Conducted Power+Antenna Gain



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1.4 B30_10MHz_EIRP/10MHz

1.4.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/10MHz (dBm/5MHz)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2310	1	0	10.84	-2.35	8.49	<=23.98	Pass		
			25	14.03	-2.35	11.68	<=23.98	Pass		
			49	12.64	-2.35	10.29	<=23.98	Pass		
		25	0	12.00	-2.35	9.65	<=23.98	Pass		
			13	12.90	-2.35	10.55	<=23.98	Pass		
			25	12.80	-2.35	10.45	<=23.98	Pass		
		50	0	12.42	-2.35	10.07	<=23.98	Pass		
		16QAM	2310	1	0	9.99	-2.35	7.64	<=23.98	Pass
					25	13.19	-2.35	10.84	<=23.98	Pass
49	11.86				-2.35	9.51	<=23.98	Pass		
25	0			11.00	-2.35	8.65	<=23.98	Pass		
	13			11.91	-2.35	9.56	<=23.98	Pass		
	25			11.81	-2.35	9.46	<=23.98	Pass		
50	0			11.38	-2.35	9.03	<=23.98	Pass		
64QAM	2310			1	0	8.76	-2.35	6.41	<=23.98	Pass
					25	12.01	-2.35	9.66	<=23.98	Pass
		49	10.68		-2.35	8.33	<=23.98	Pass		
		25	0	9.95	-2.35	7.60	<=23.98	Pass		
			13	10.84	-2.35	8.49	<=23.98	Pass		
			25	10.72	-2.35	8.37	<=23.98	Pass		
		50	0	10.37	-2.35	8.02	<=23.98	Pass		

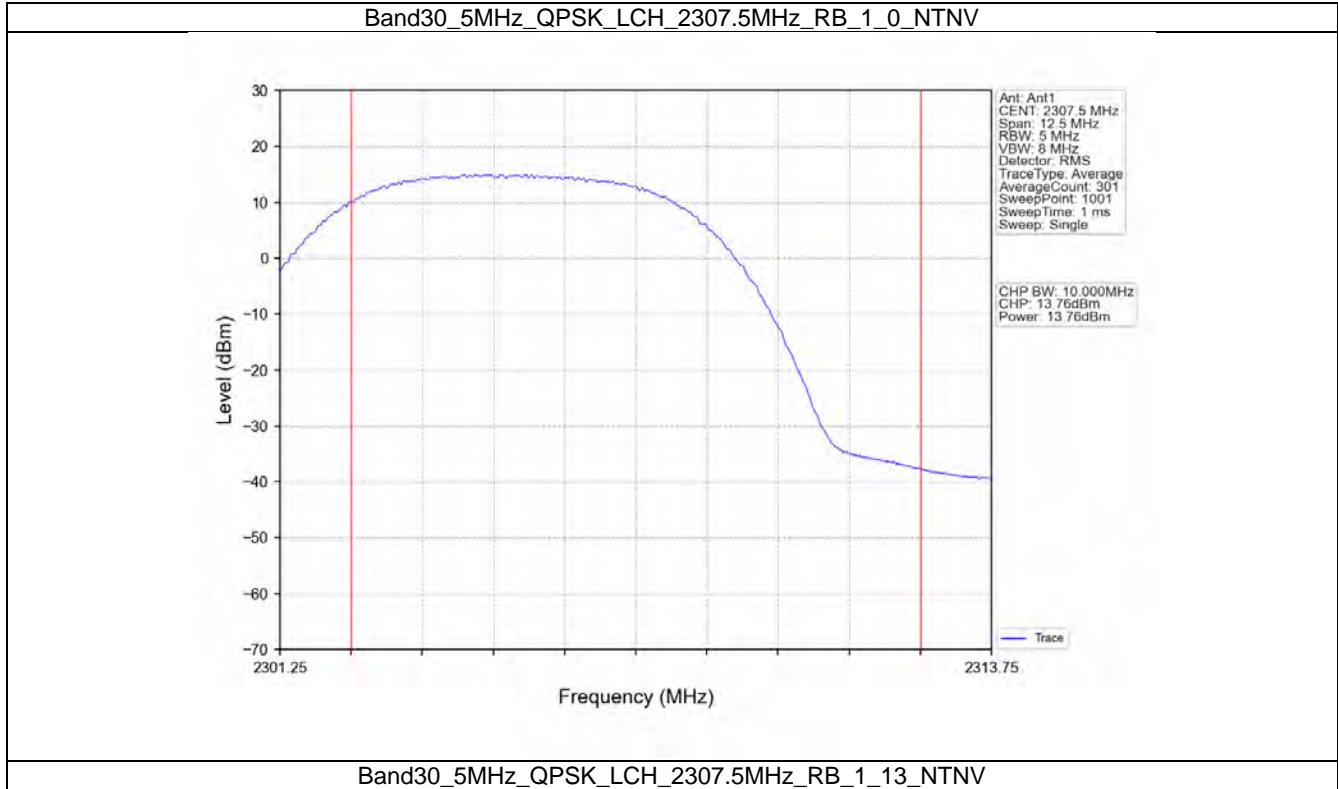
Note1: EIRP/10MHz=Conducted Power+Antenna Gain



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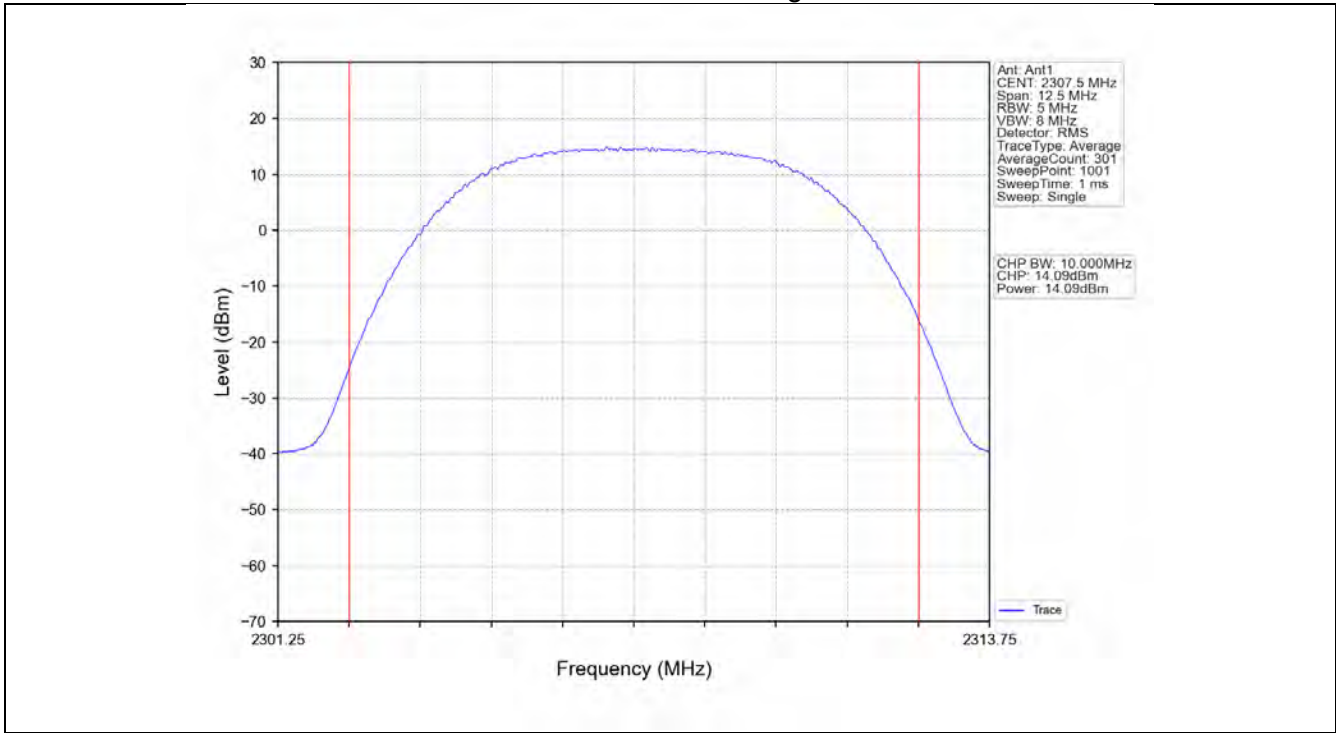
1.2.2 Test Graph



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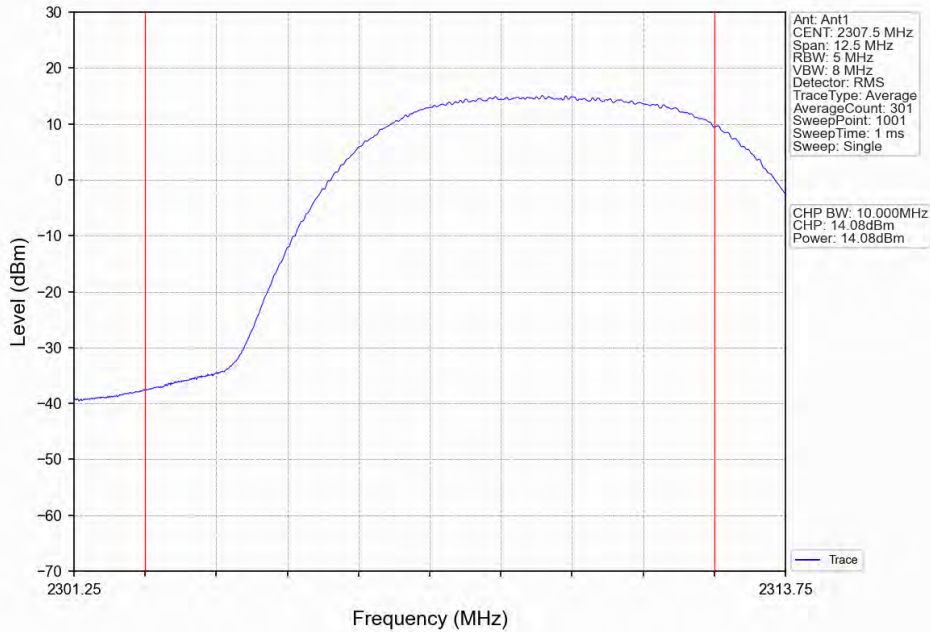
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Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_24_NTNV



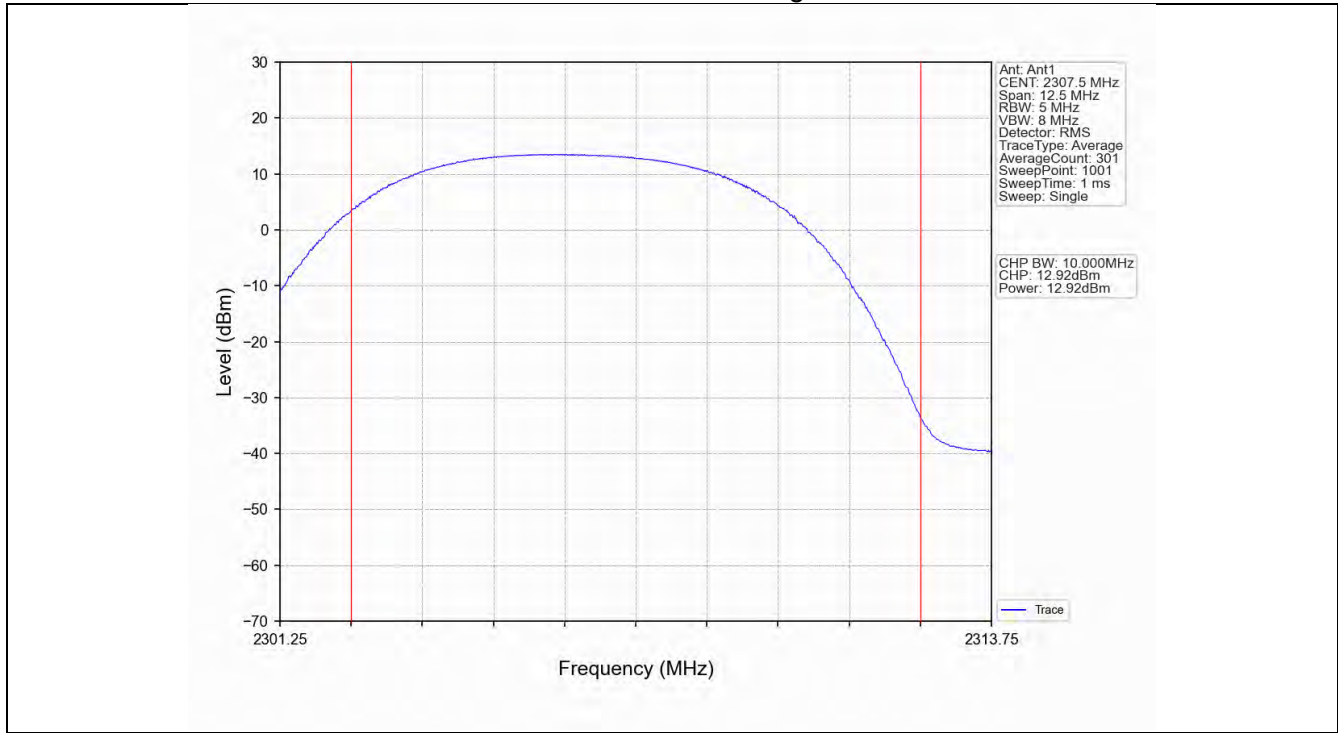
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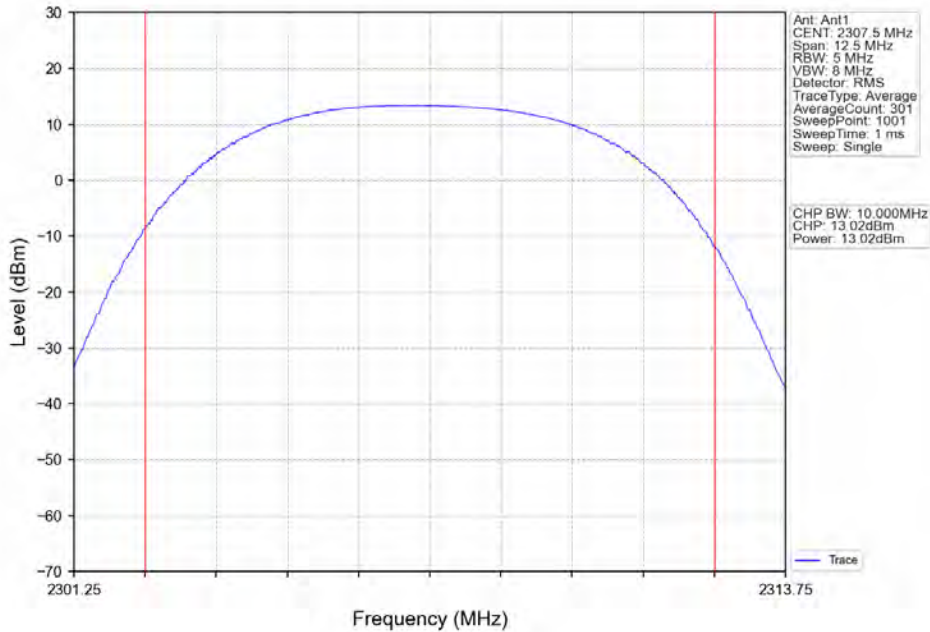


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Band30_5MHz_QPSK_LCH_2307.5MHz_RB_12_6_NTNV



Band30_5MHz_QPSK_LCH_2307.5MHz_RB_12_13_NTNV



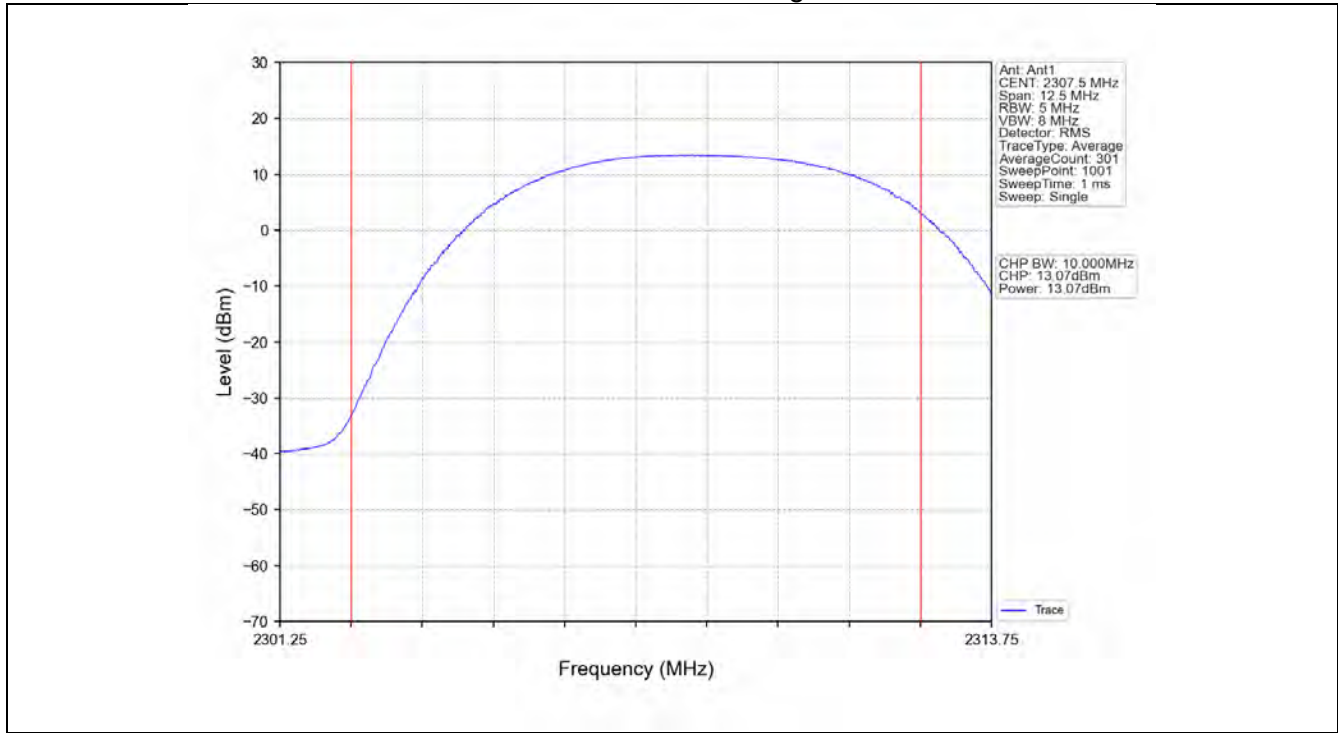
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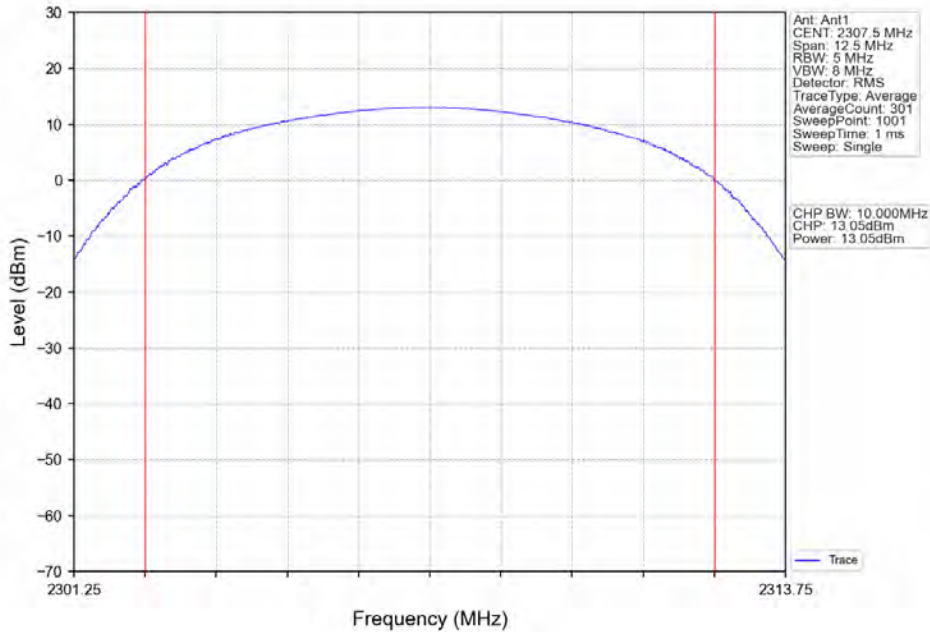


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Band30_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV



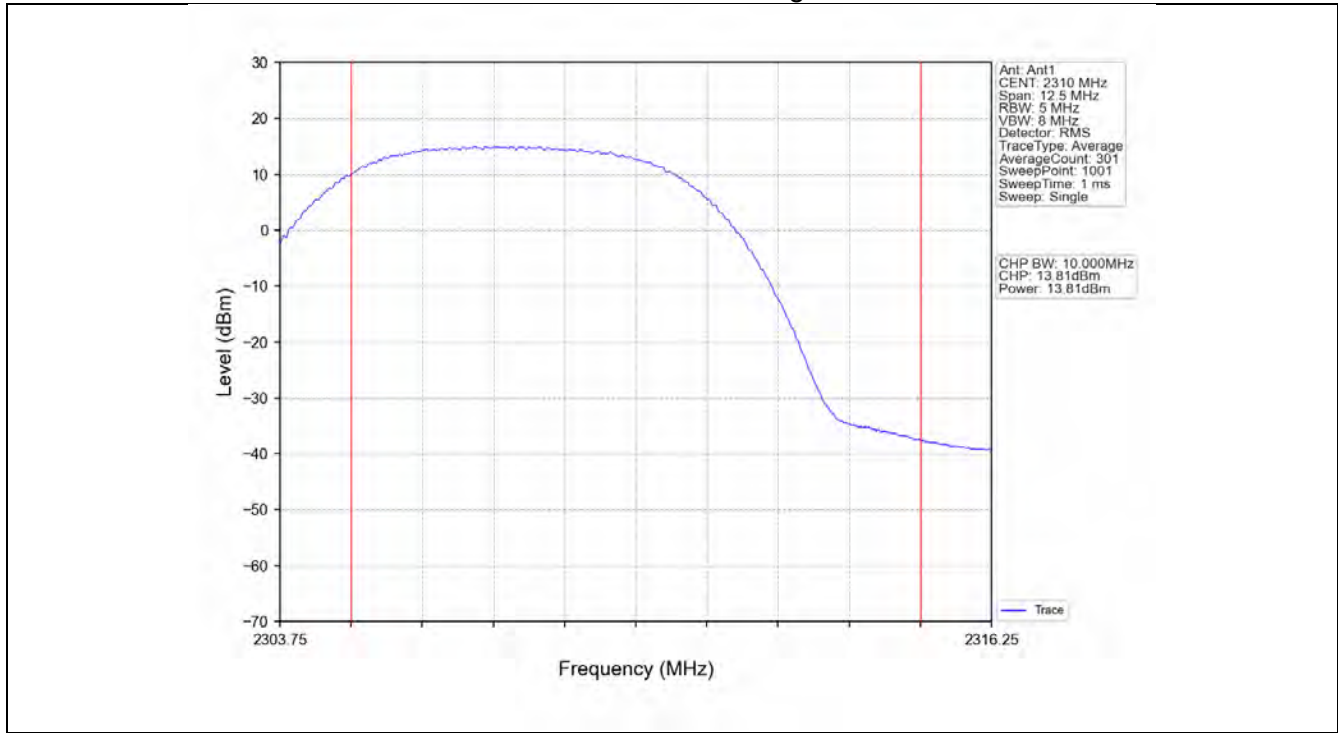
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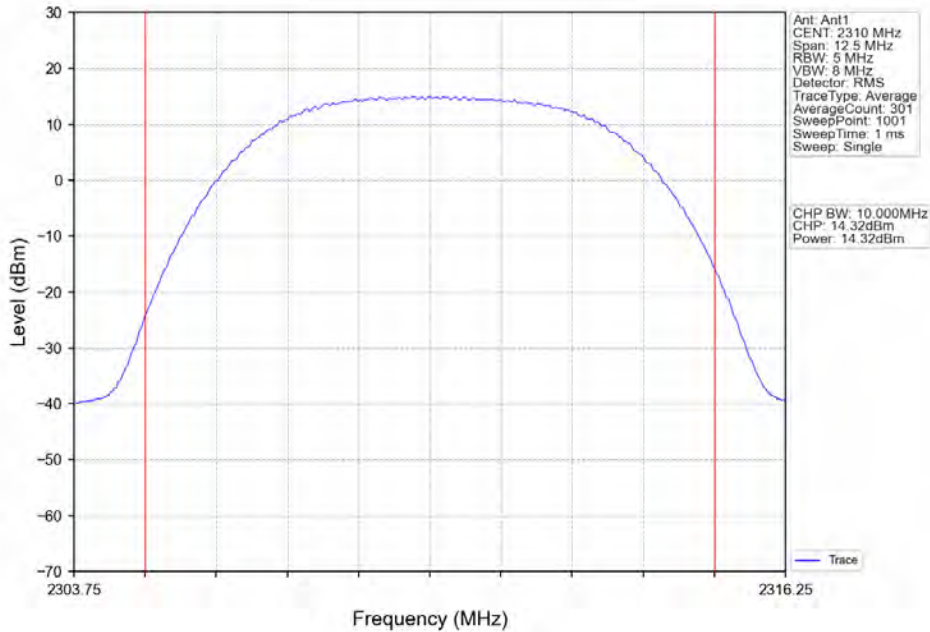


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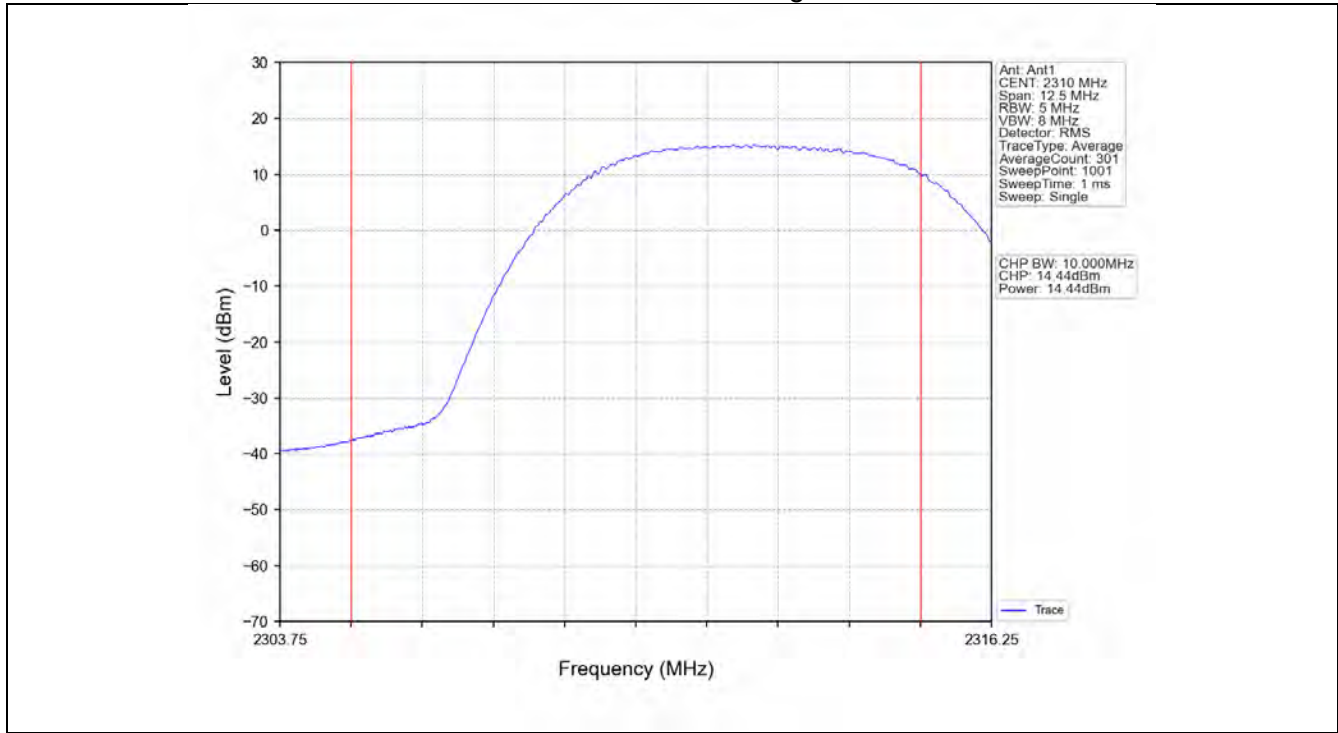
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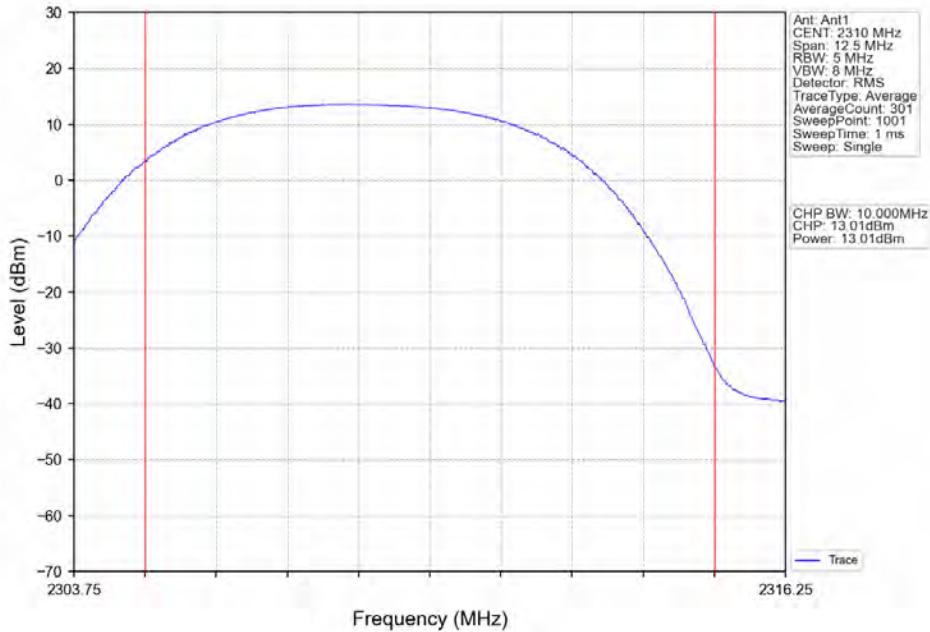
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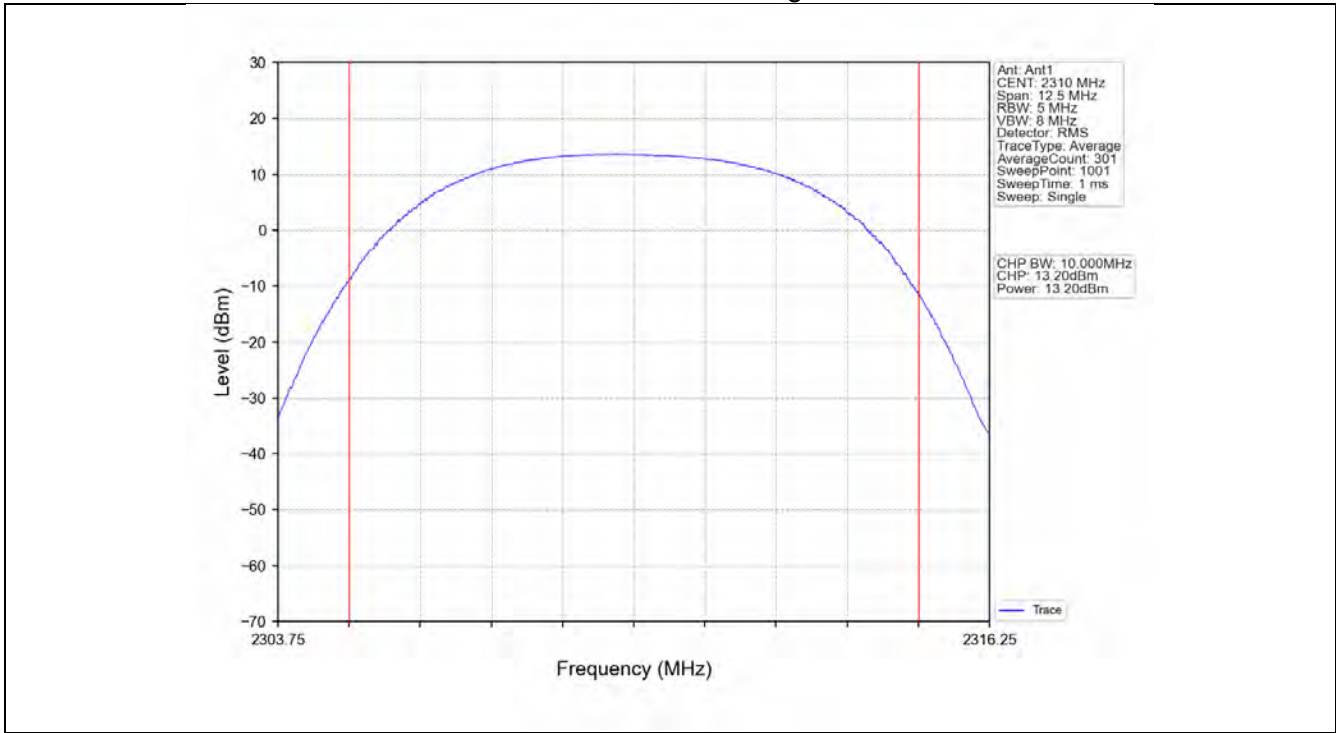
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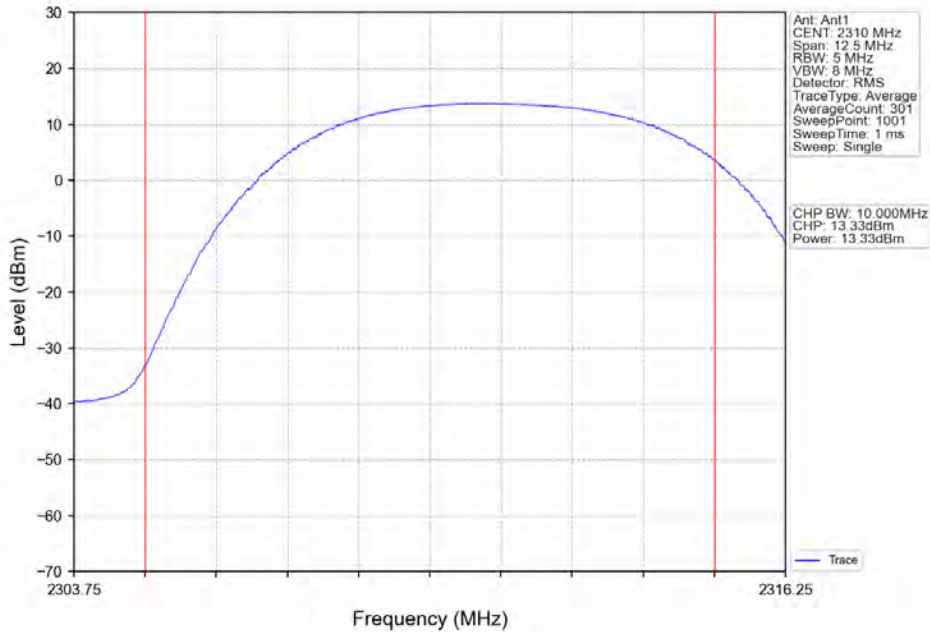


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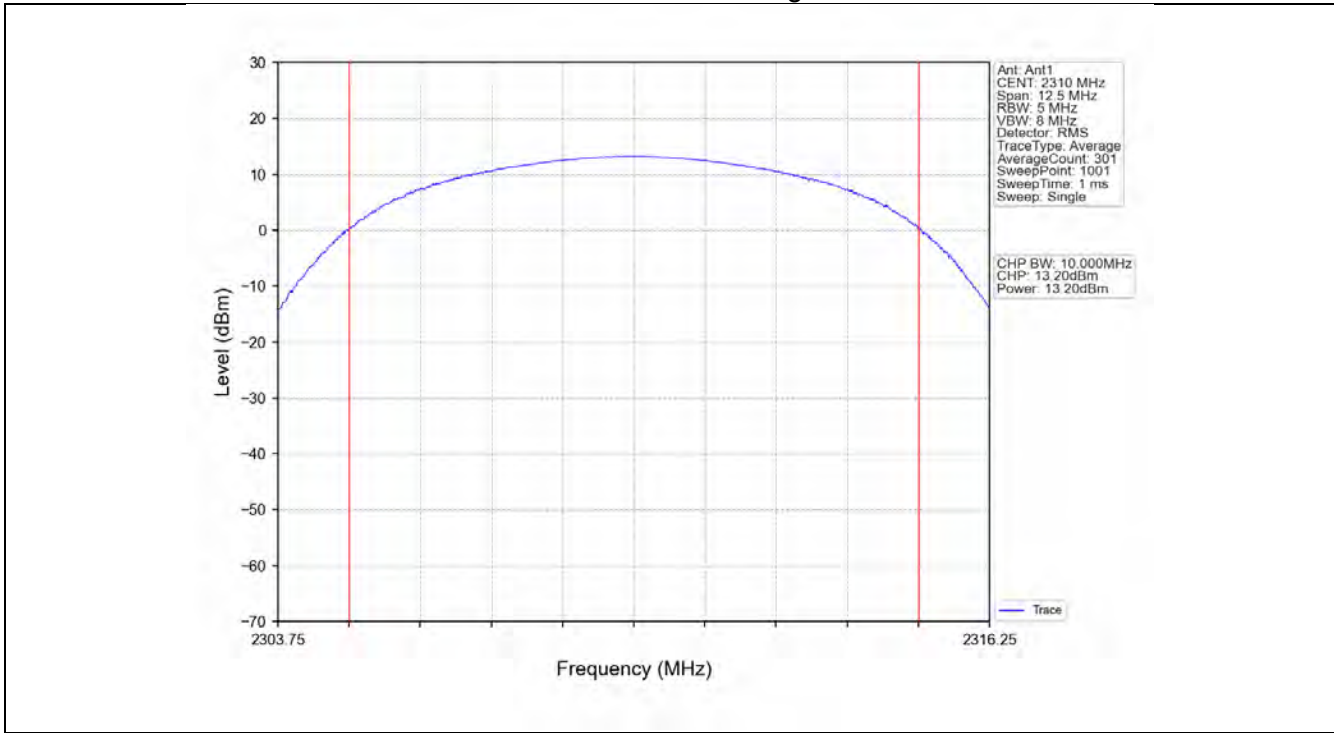
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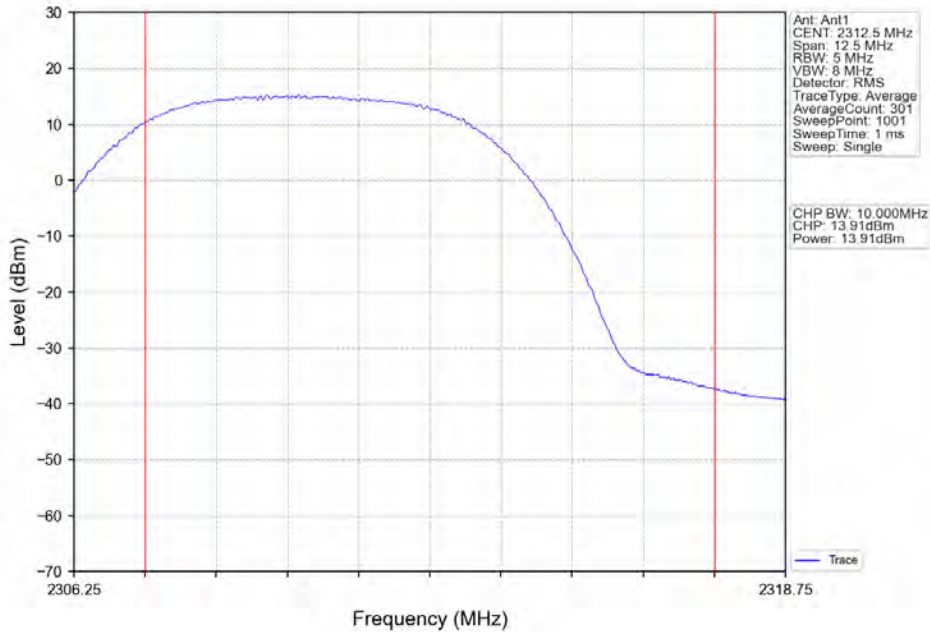


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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



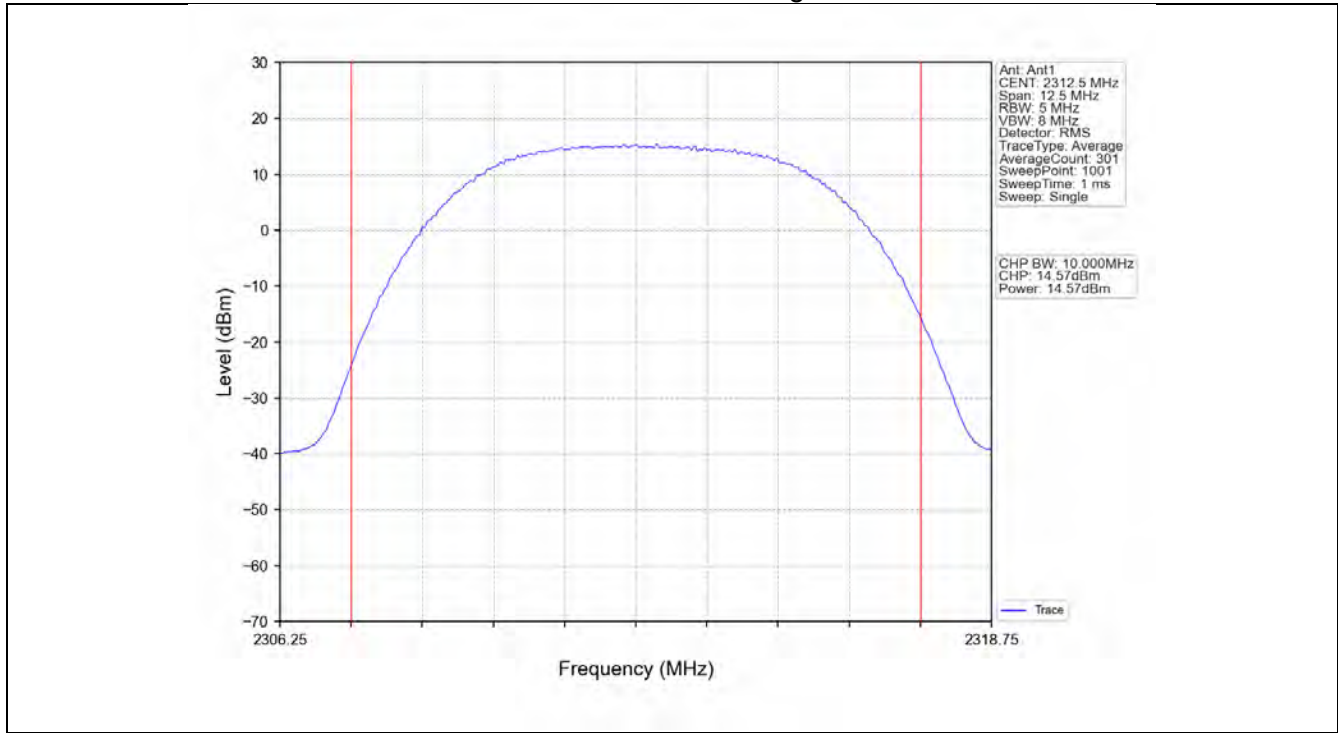
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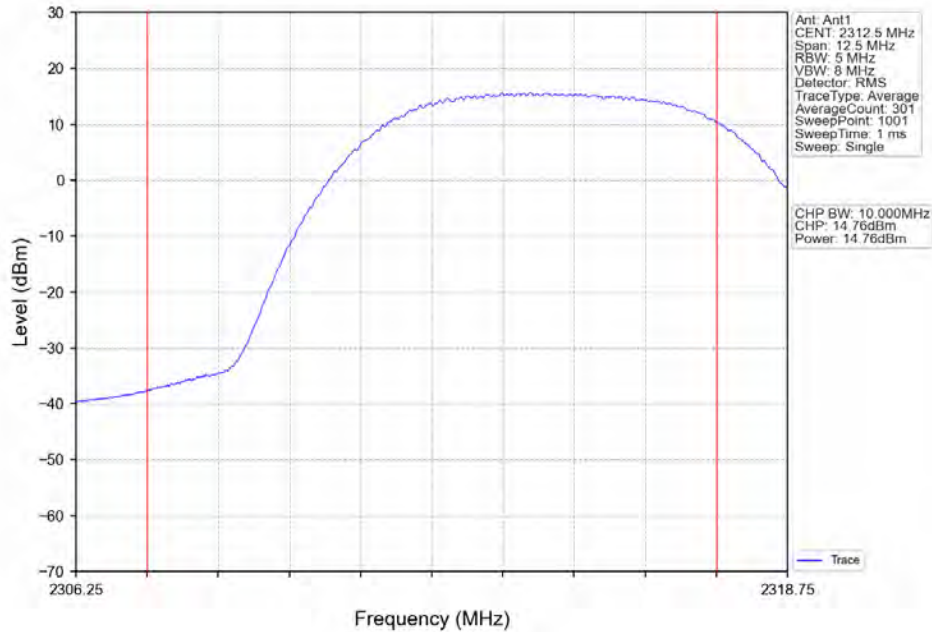


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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_24_NTNV



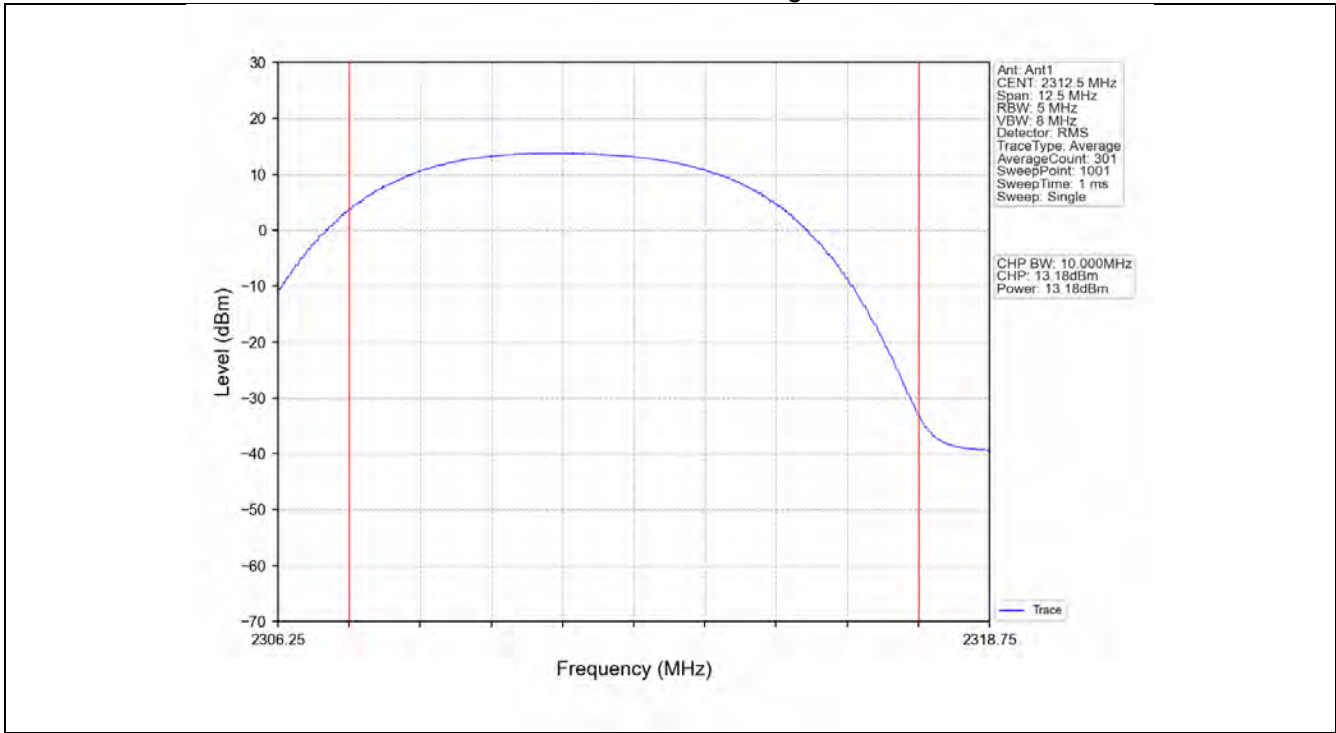
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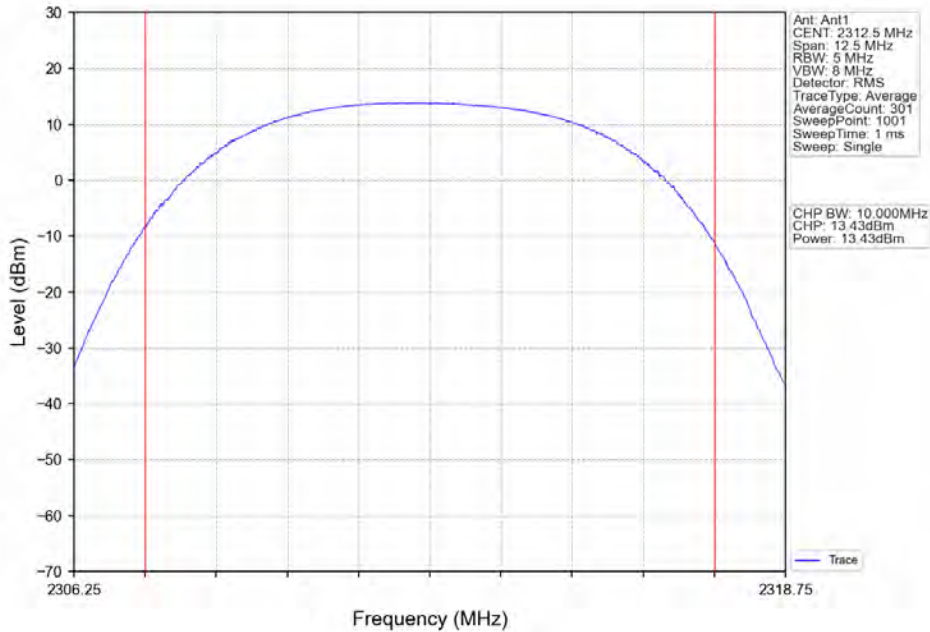
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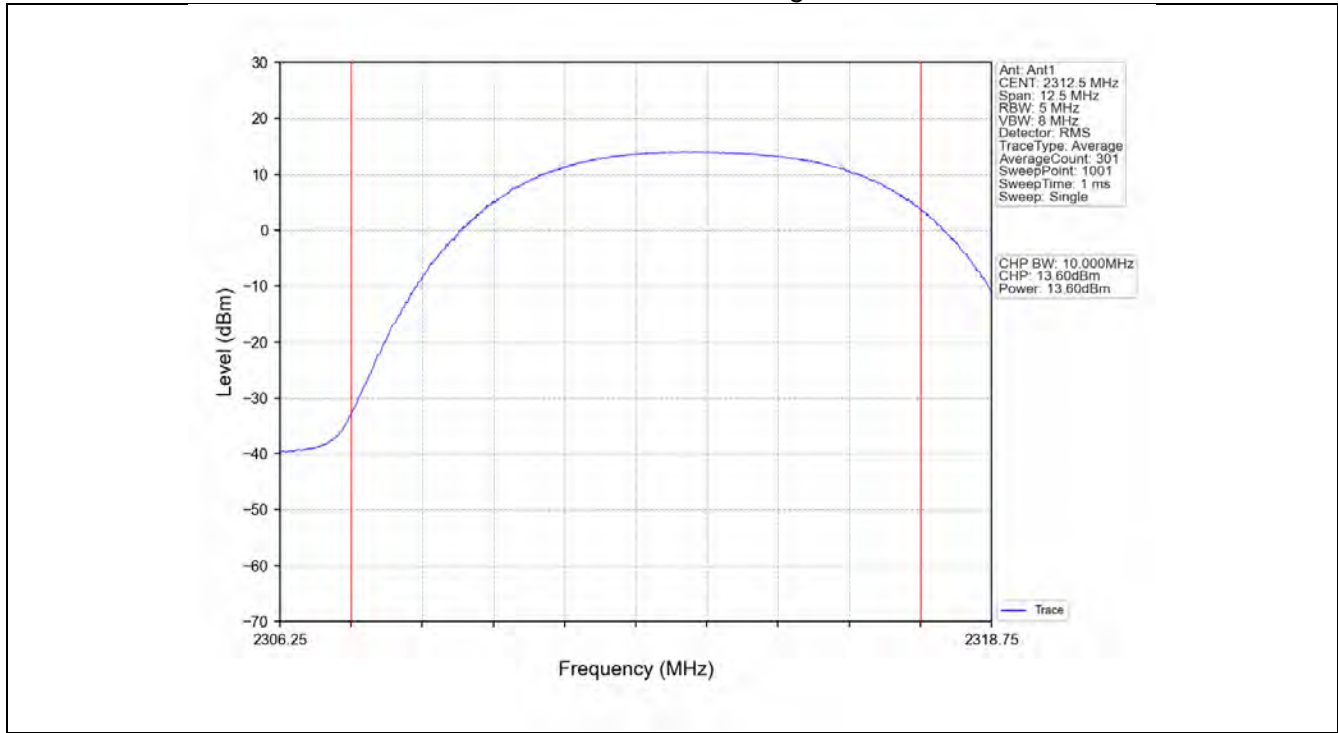
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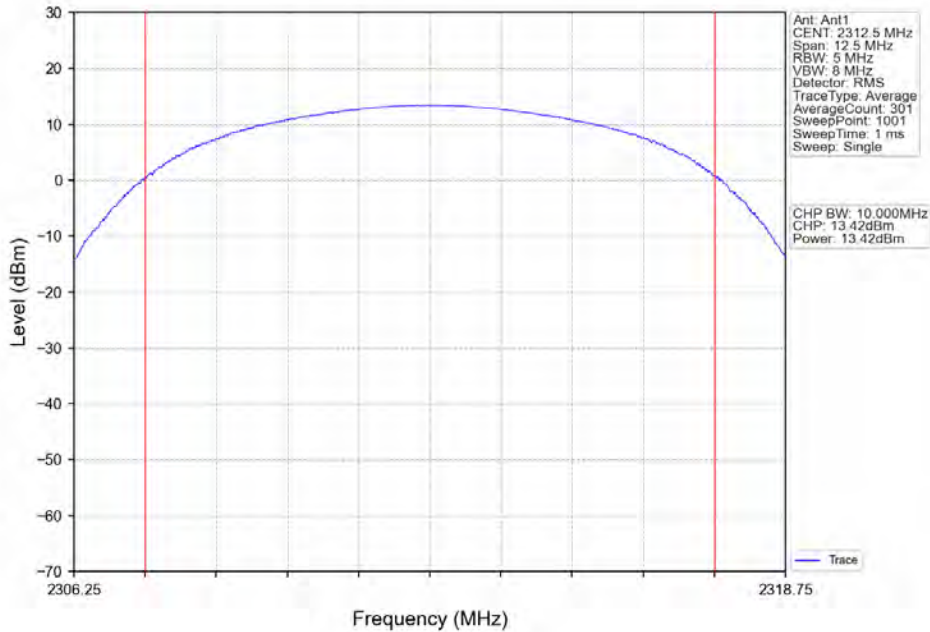
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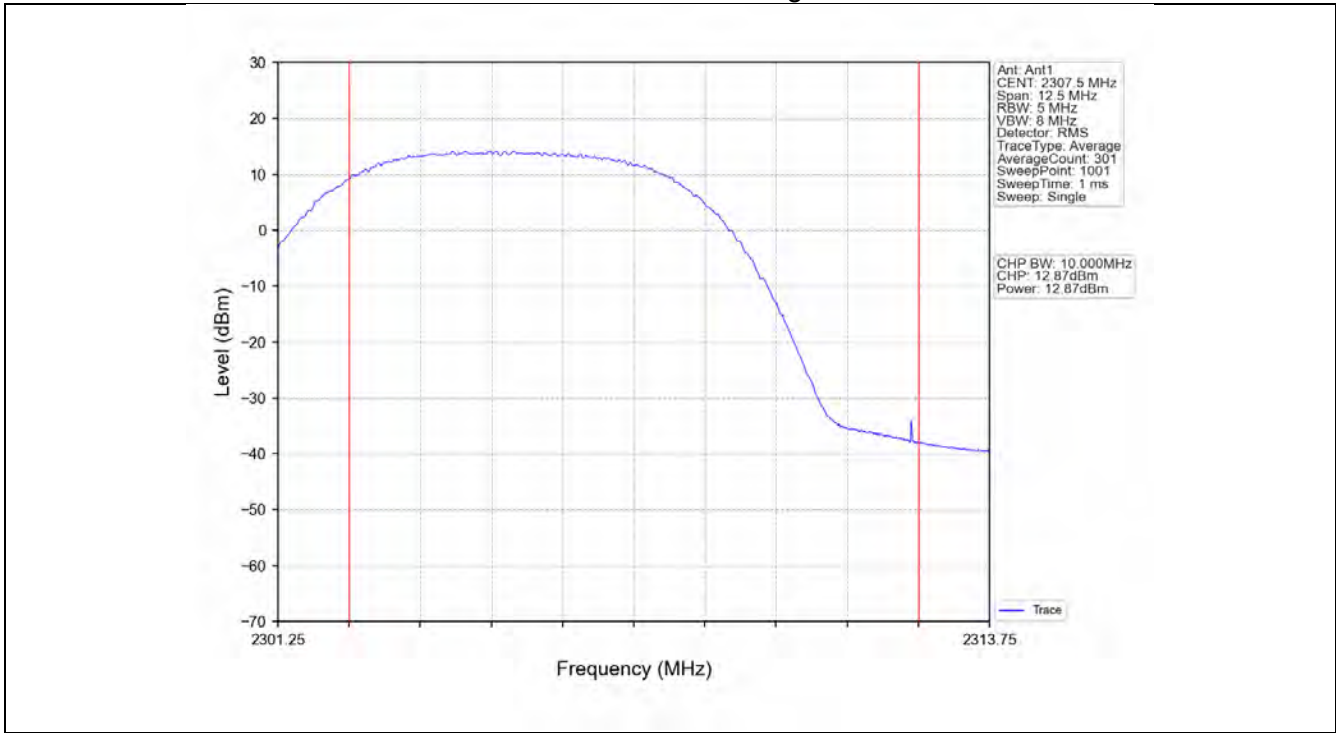
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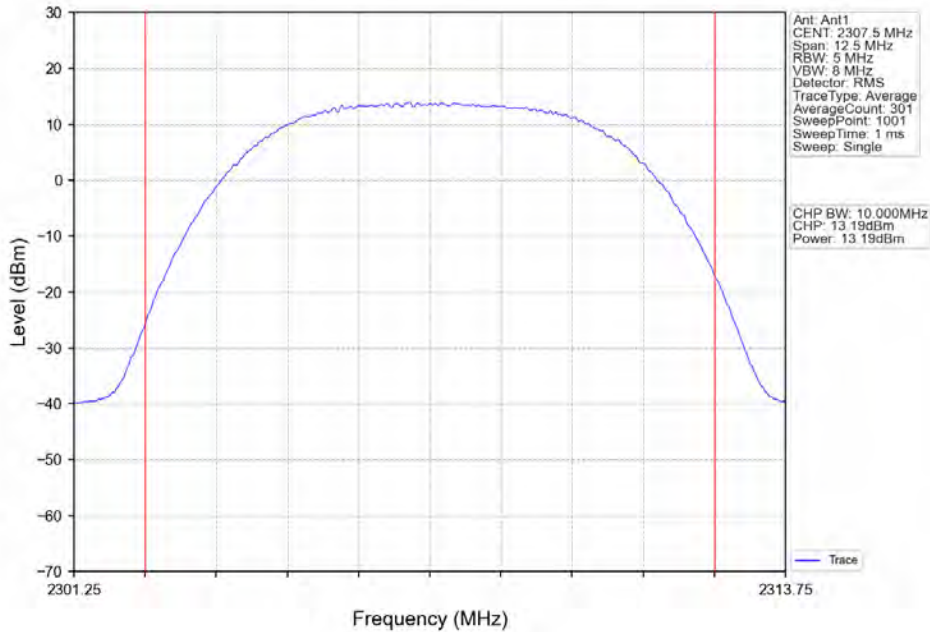


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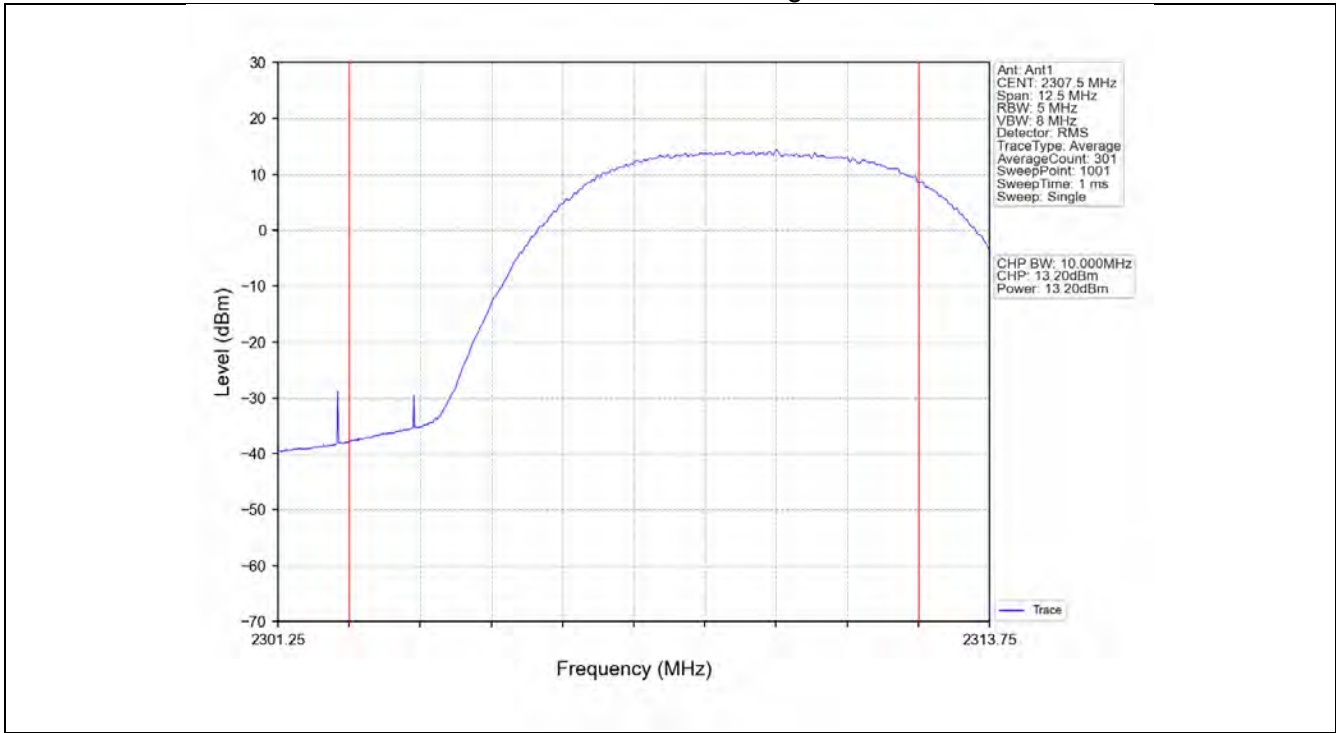
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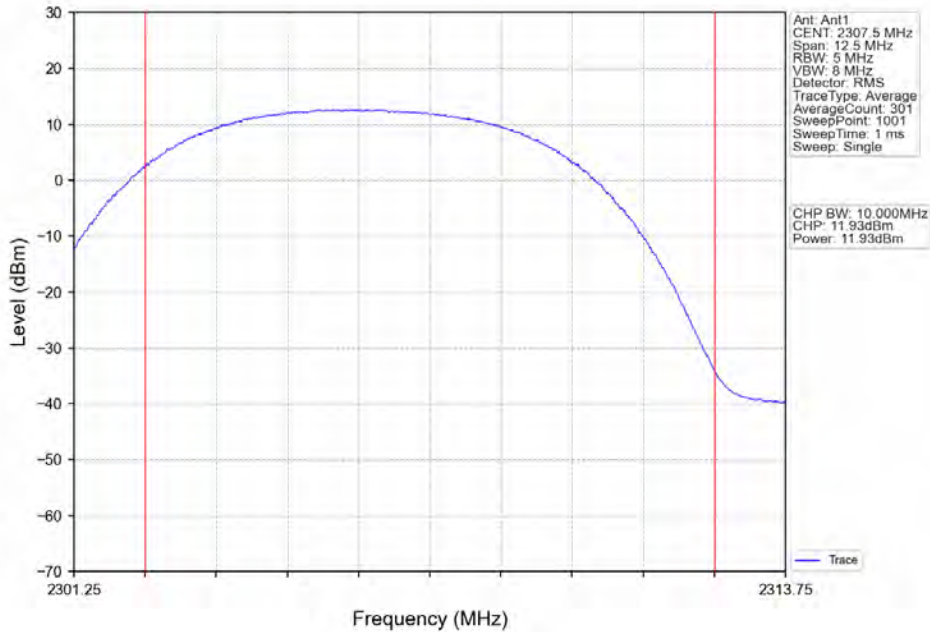


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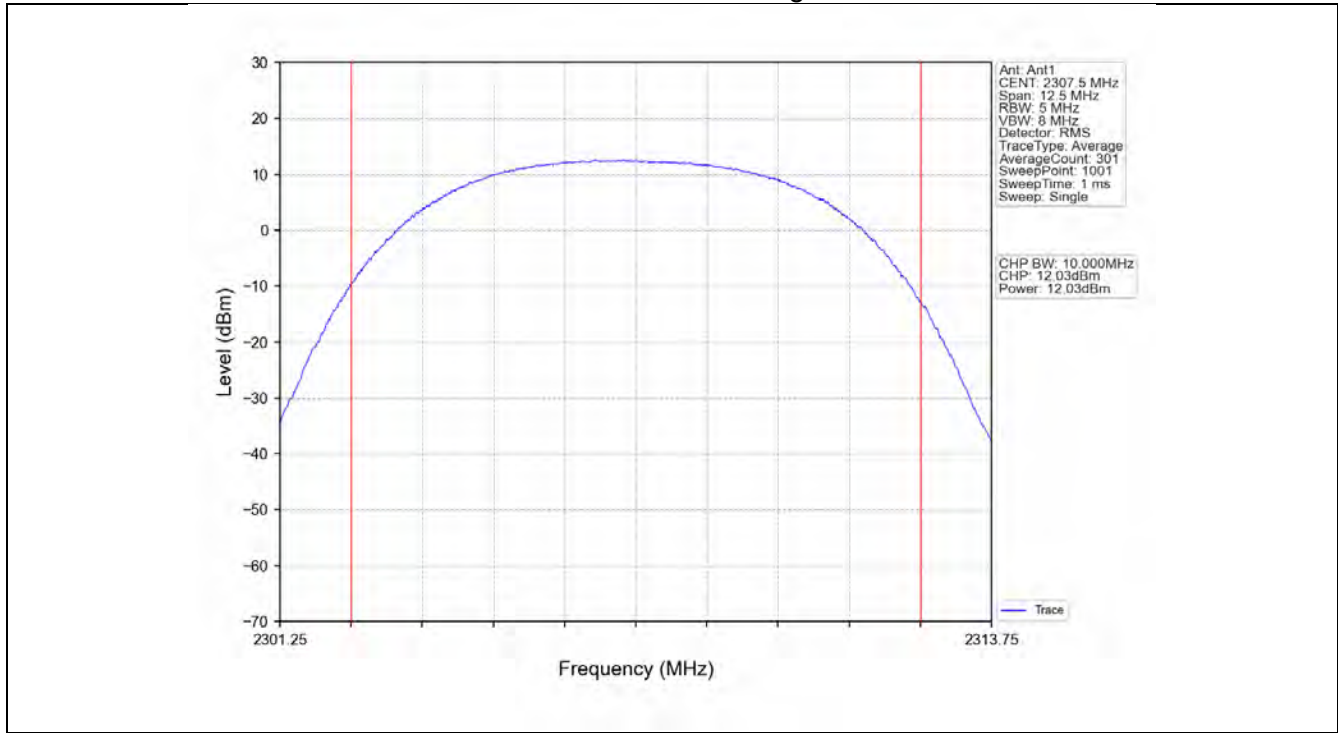
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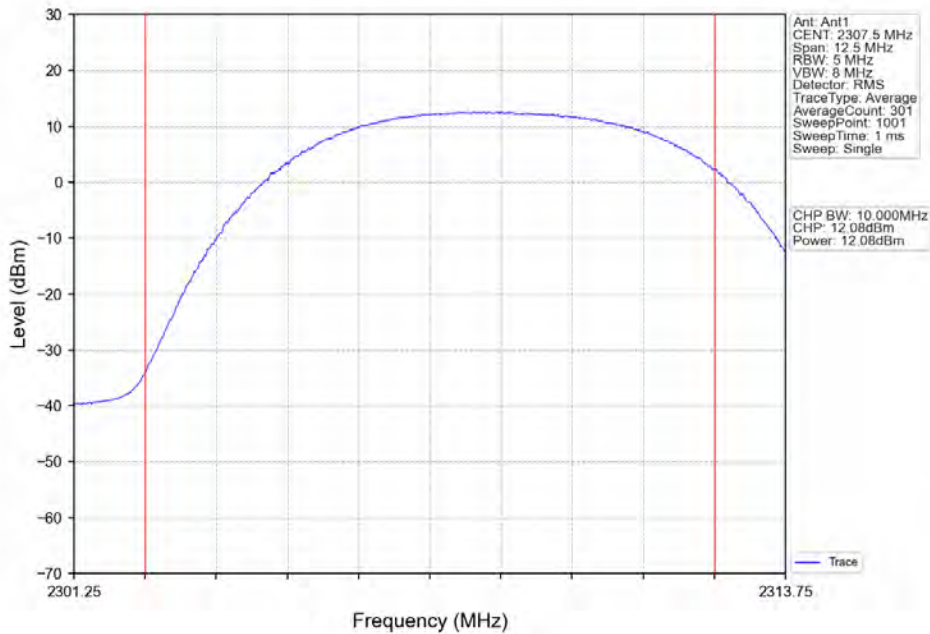
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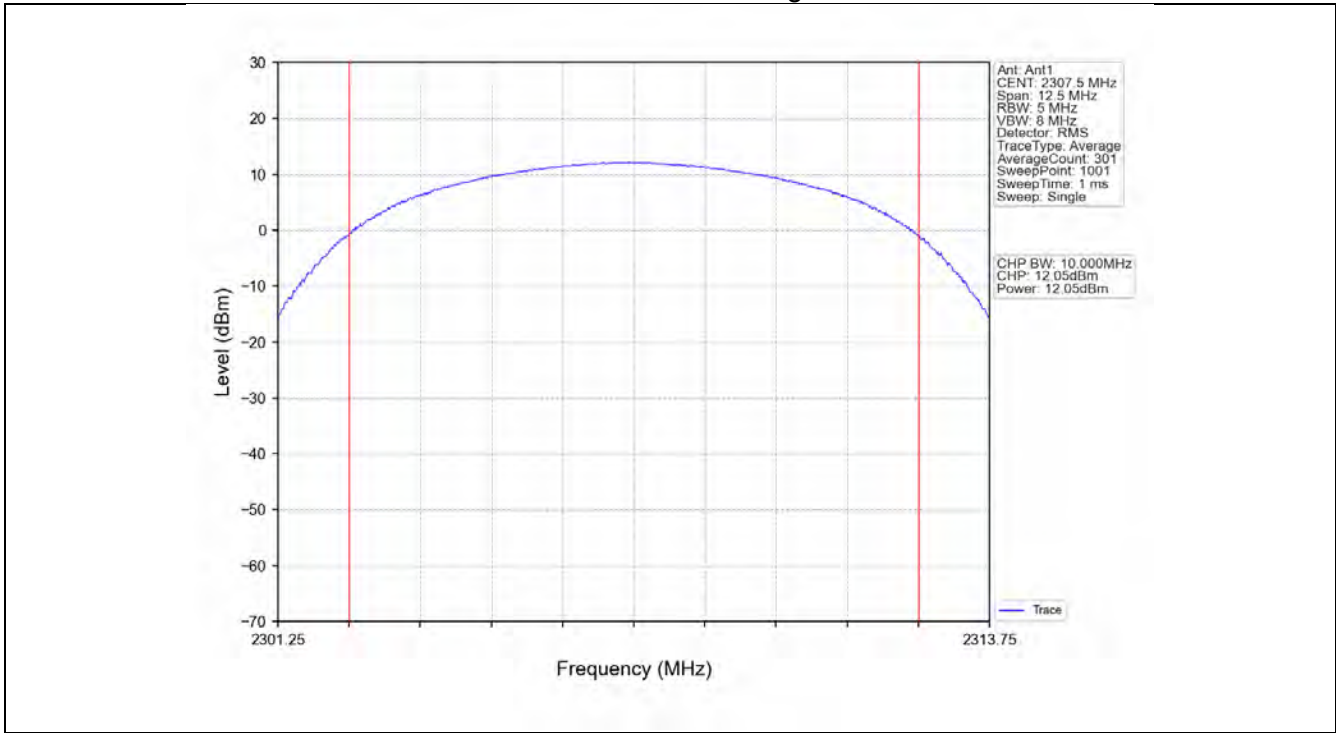
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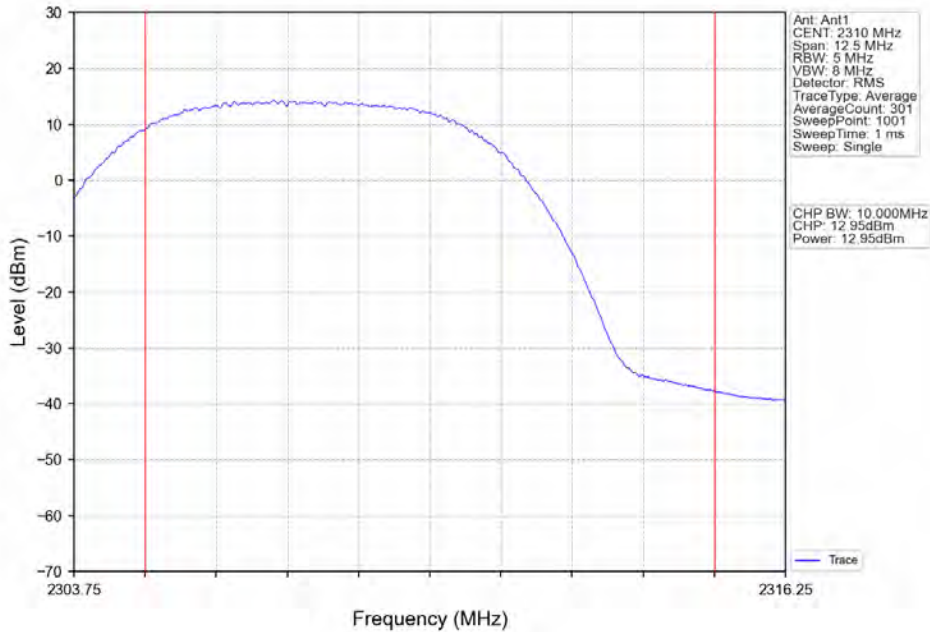


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Band30_5MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV

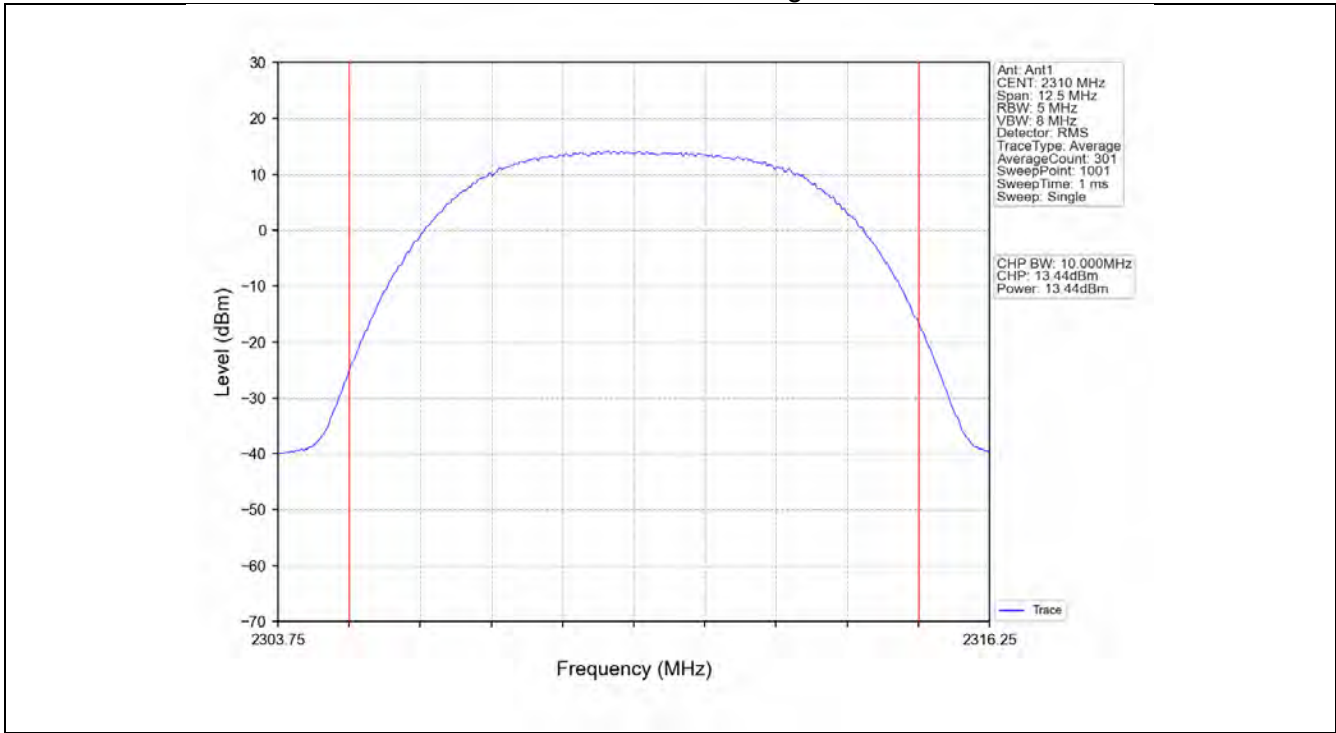


Band30_5MHz_16QAM_MCH_2310MHz_RB_1_13_NTNV



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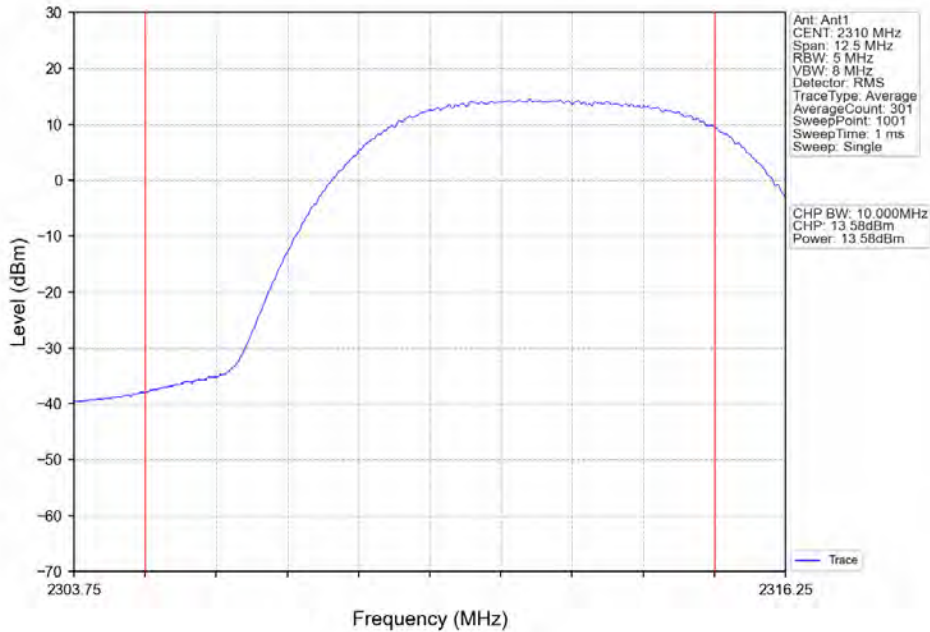


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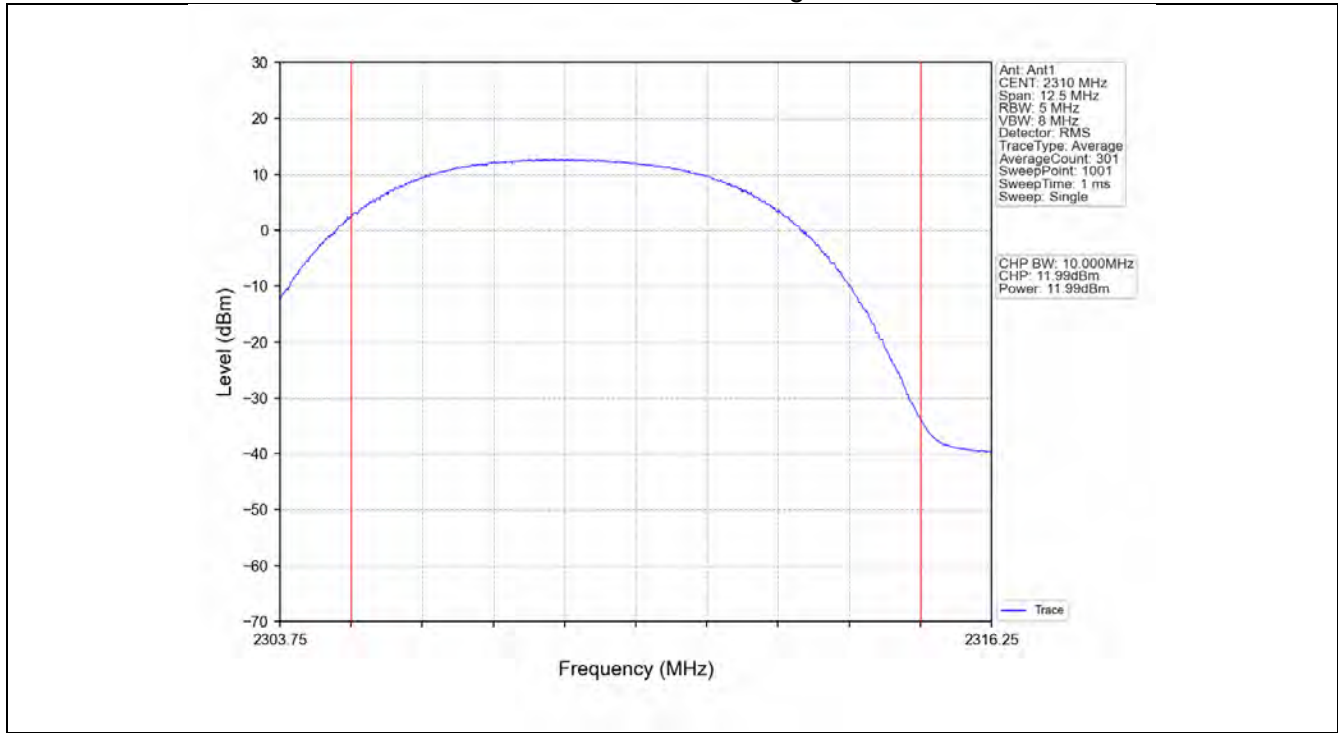
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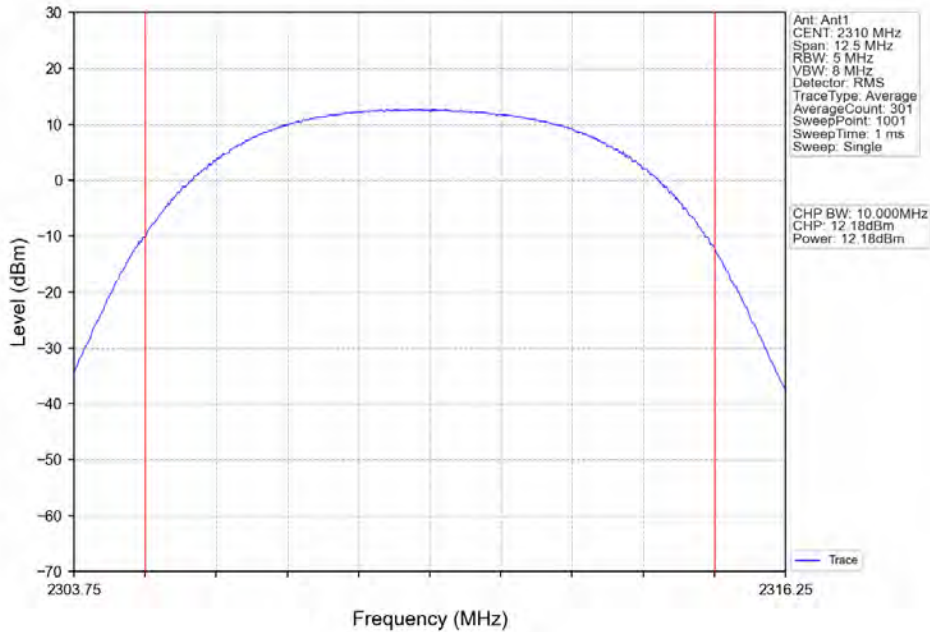


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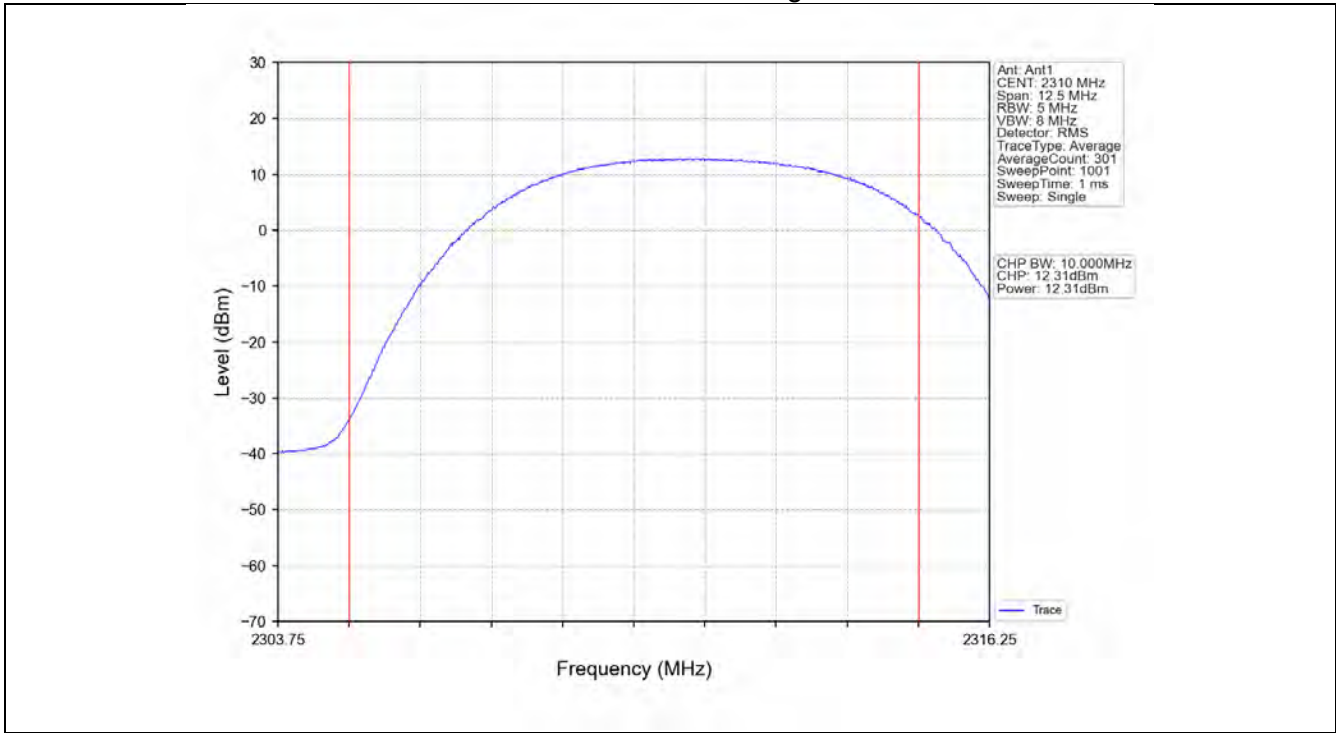
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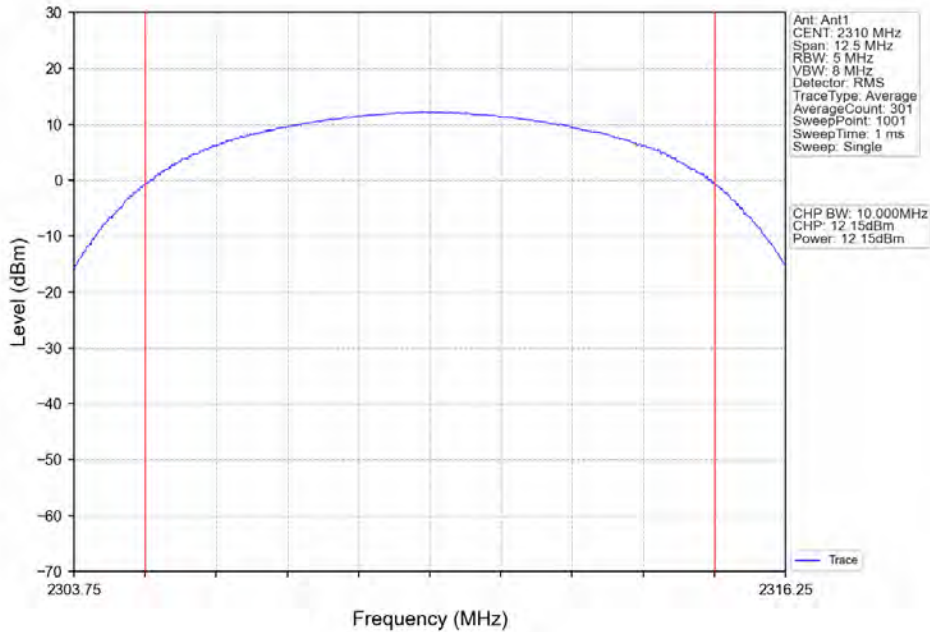


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Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_HCH_2312.5MHz_RB_1_0_NTNV



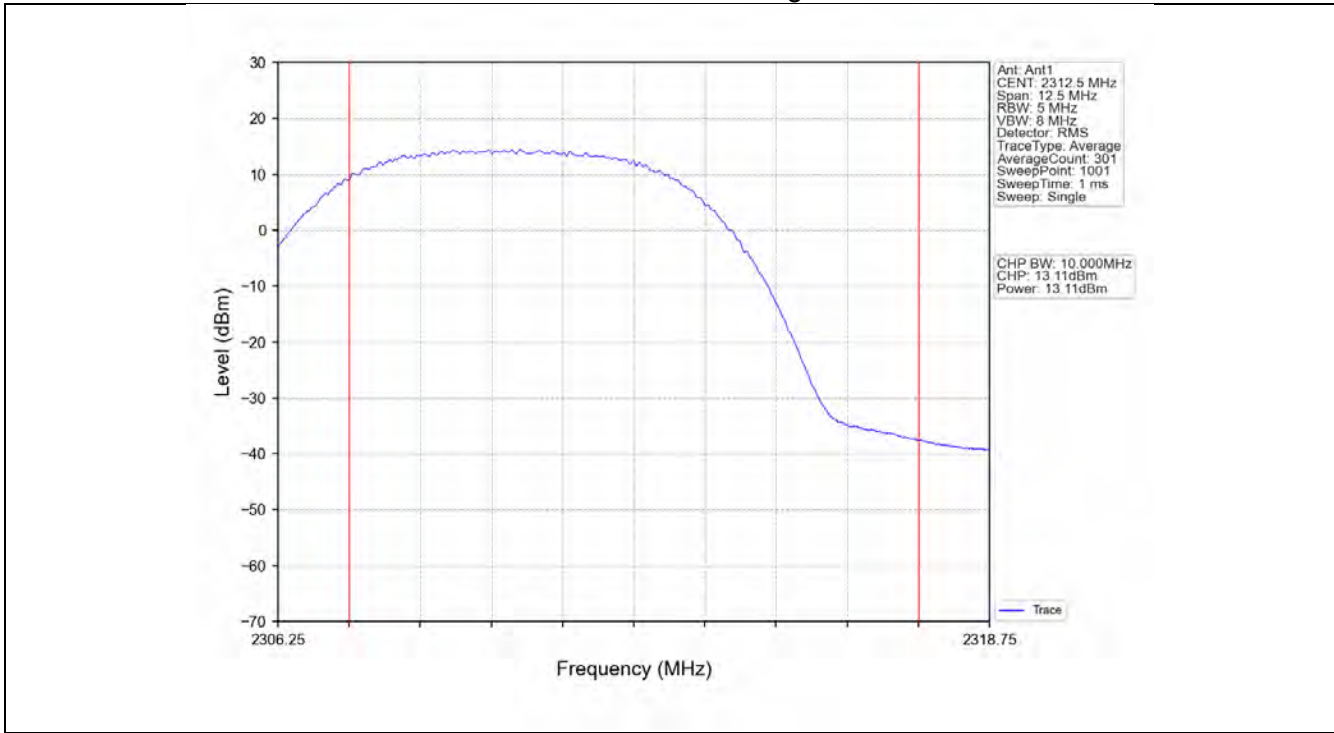
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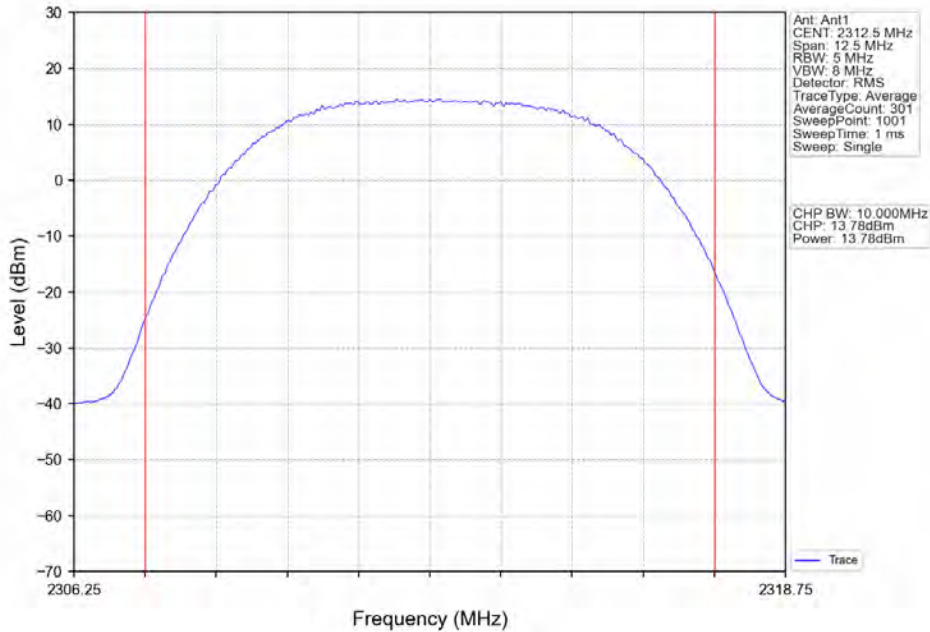
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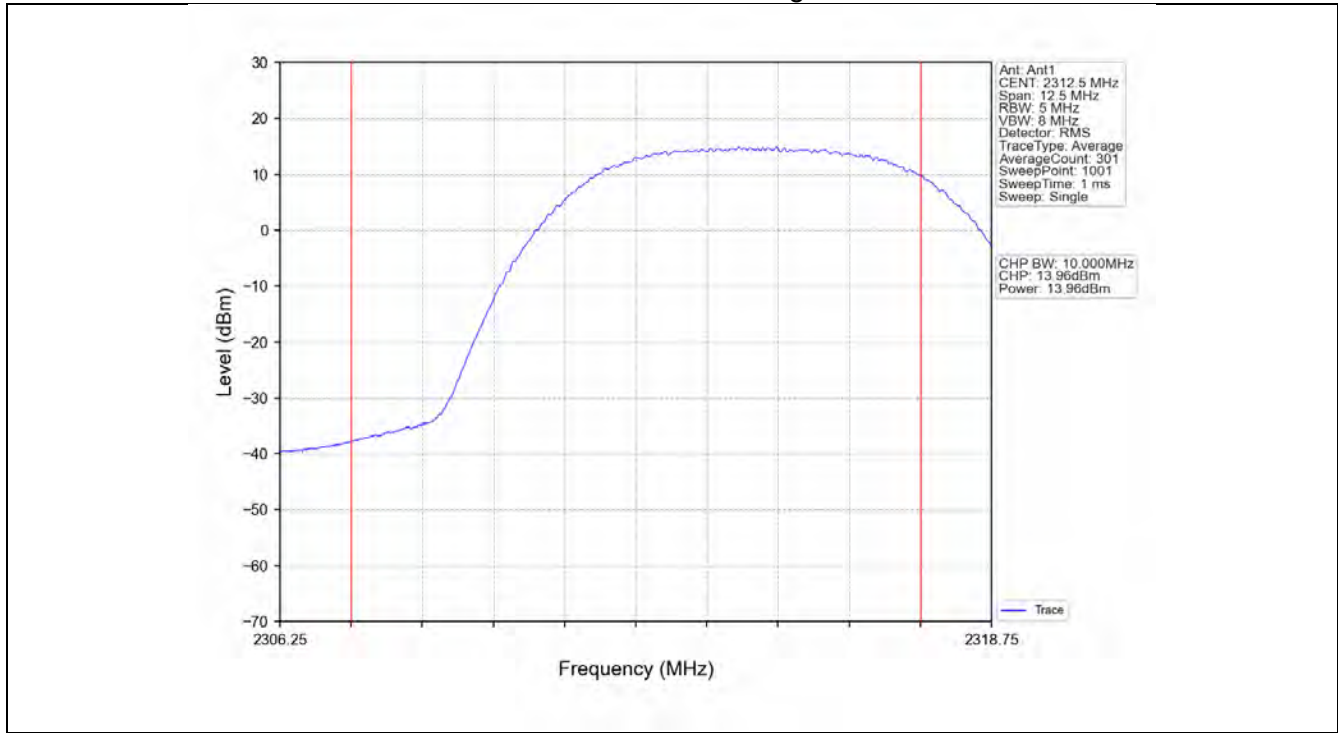
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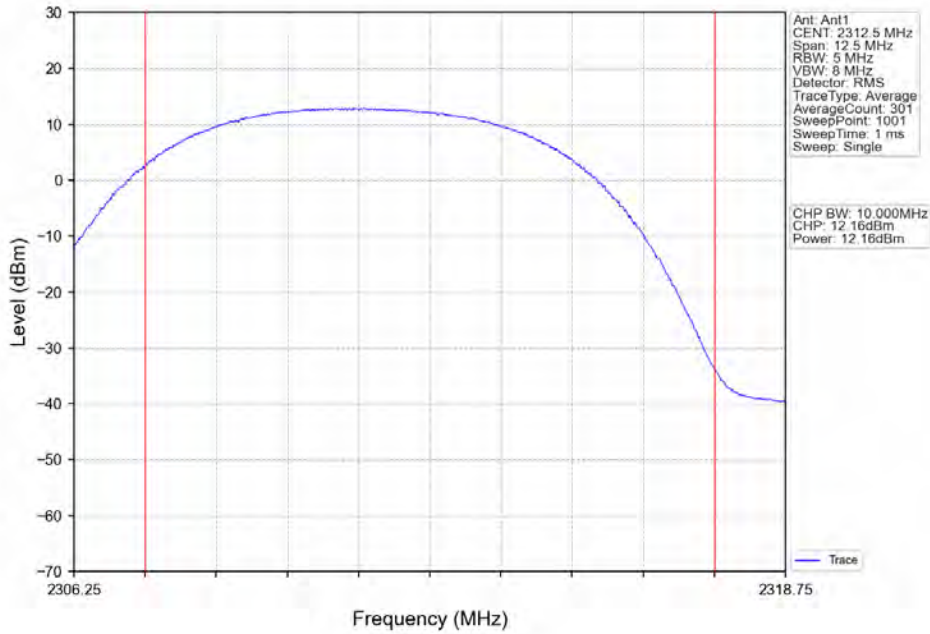
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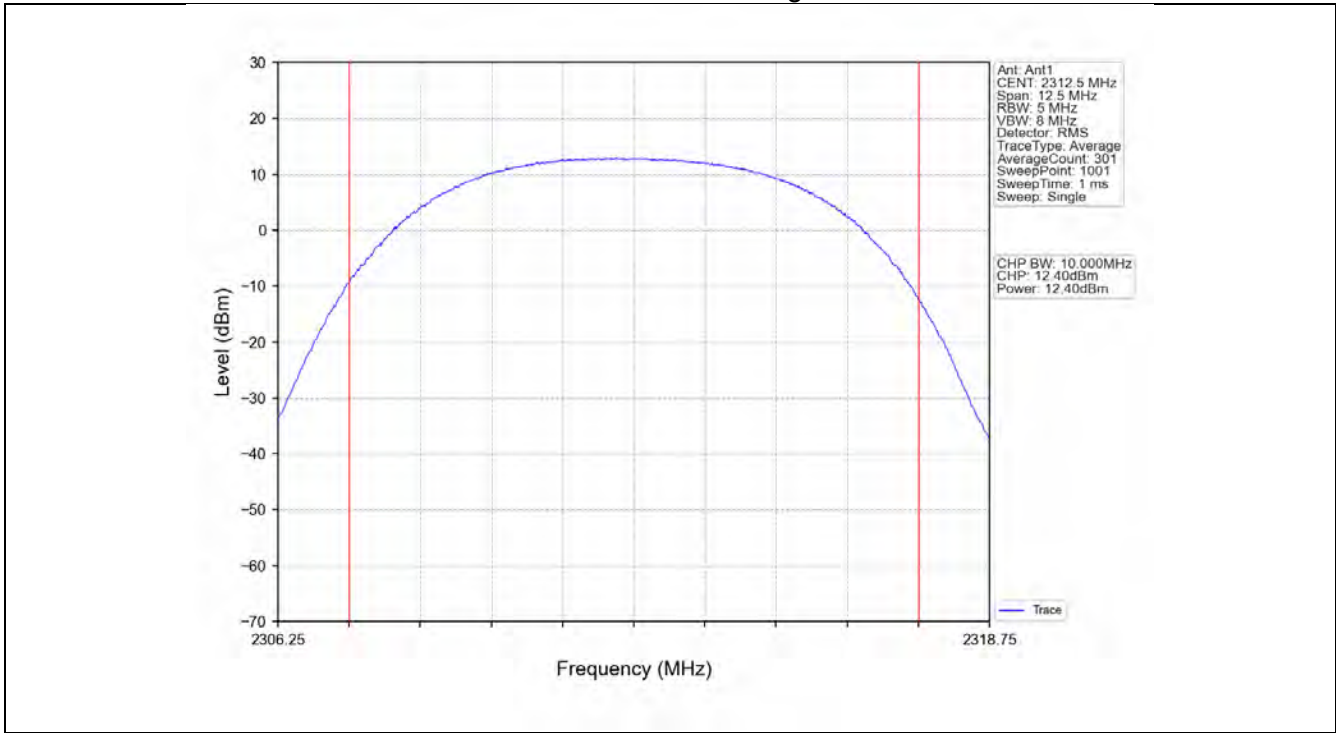


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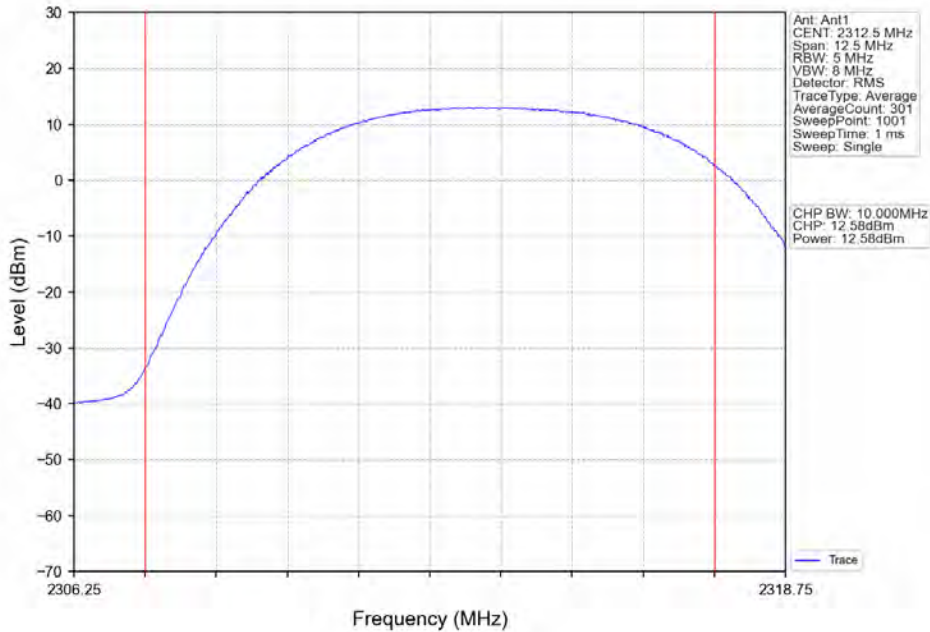
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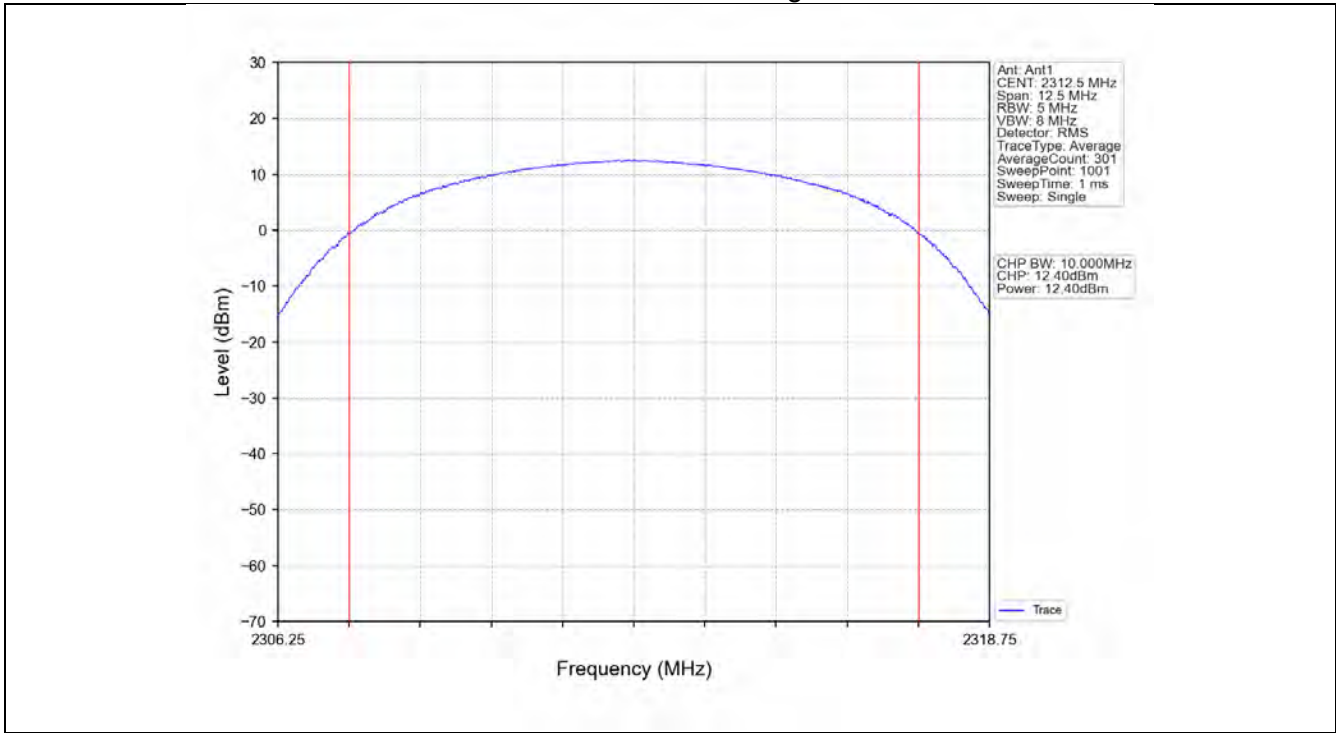
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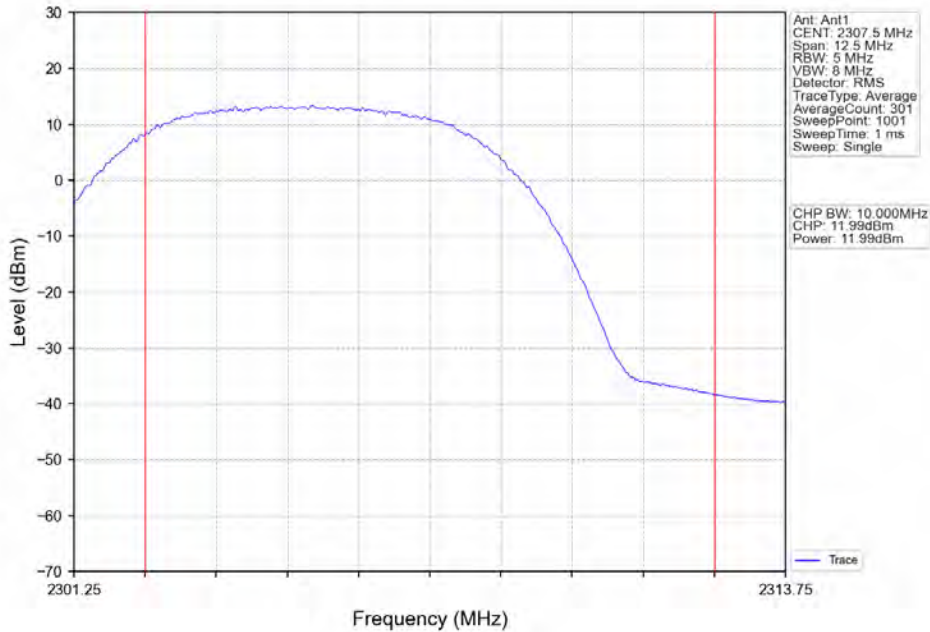
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Band30_5MHz_64QAM_LCH_2307.5MHz_RB_1_0_NTNV



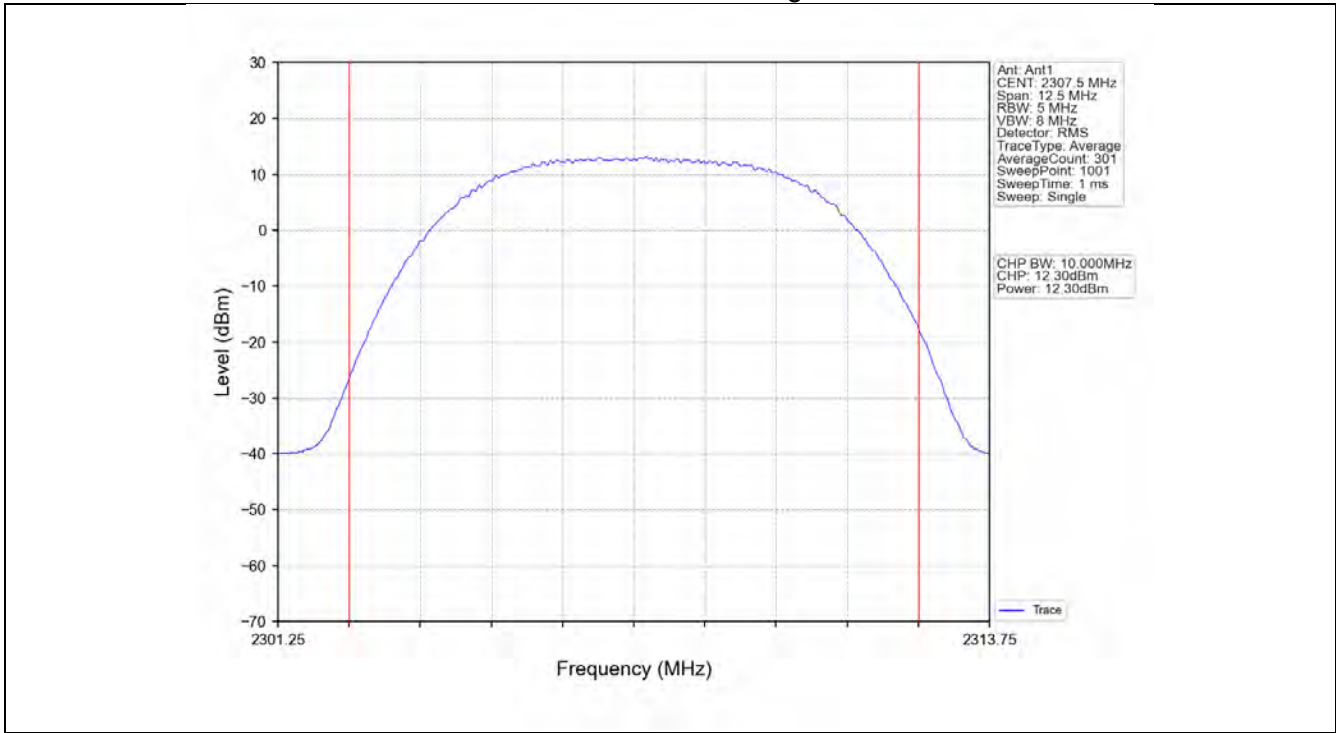
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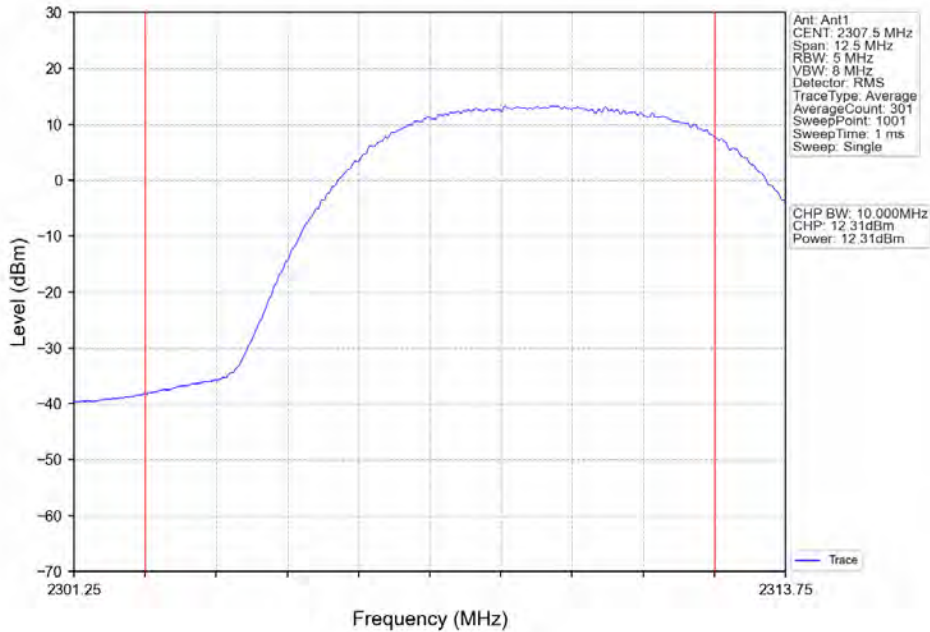
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Band30_5MHz_64QAM_LCH_2307.5MHz_RB_1_24_NTNV



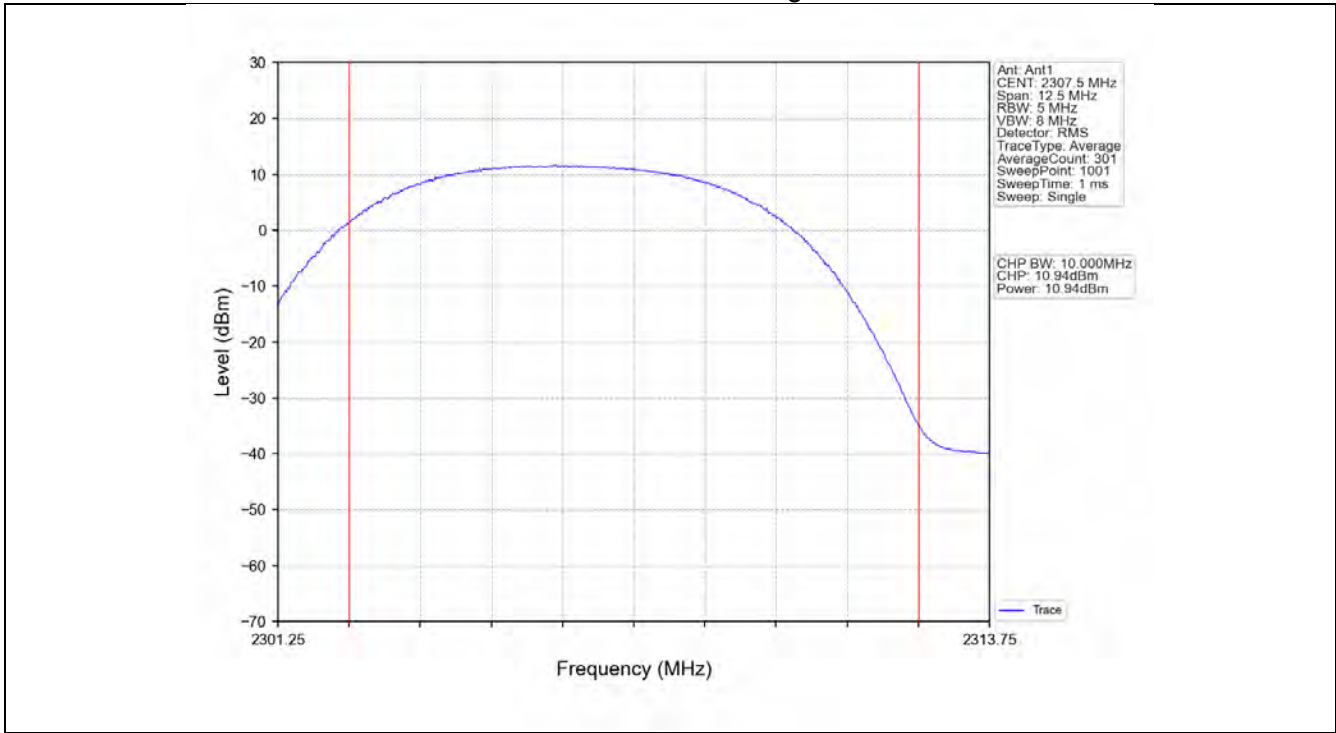
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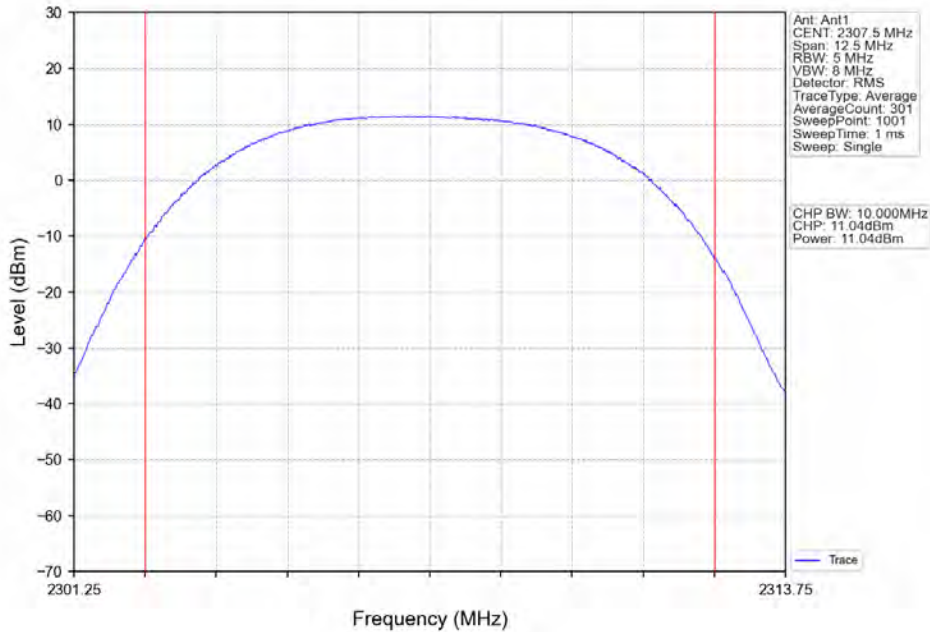


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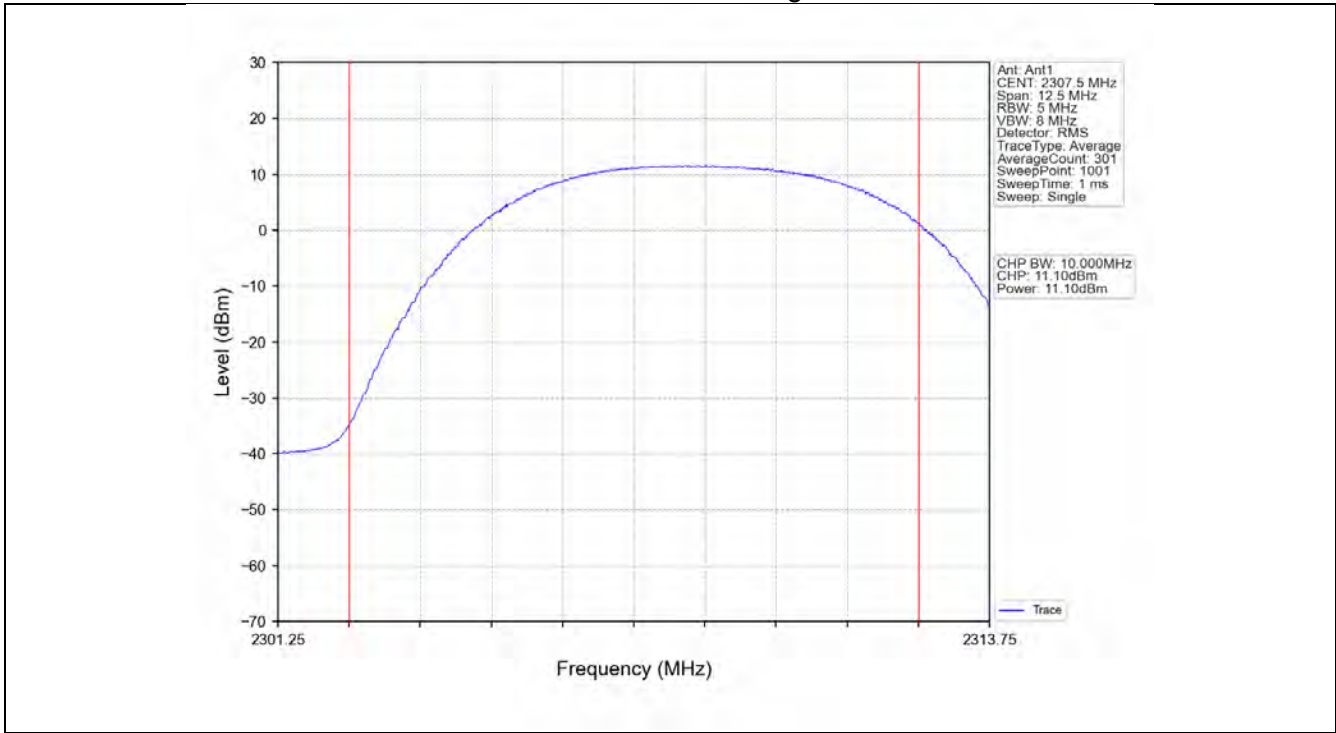
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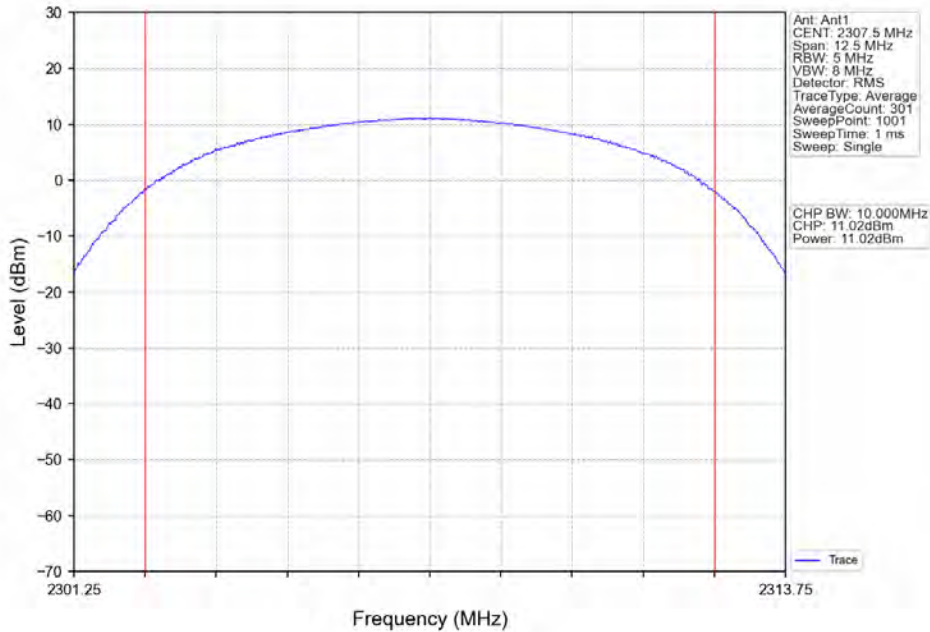


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Band30_5MHz_64QAM_LCH_2307.5MHz_RB_25_0_NTNV



Band30_5MHz_64QAM_MCH_2310MHz_RB_1_0_NTNV

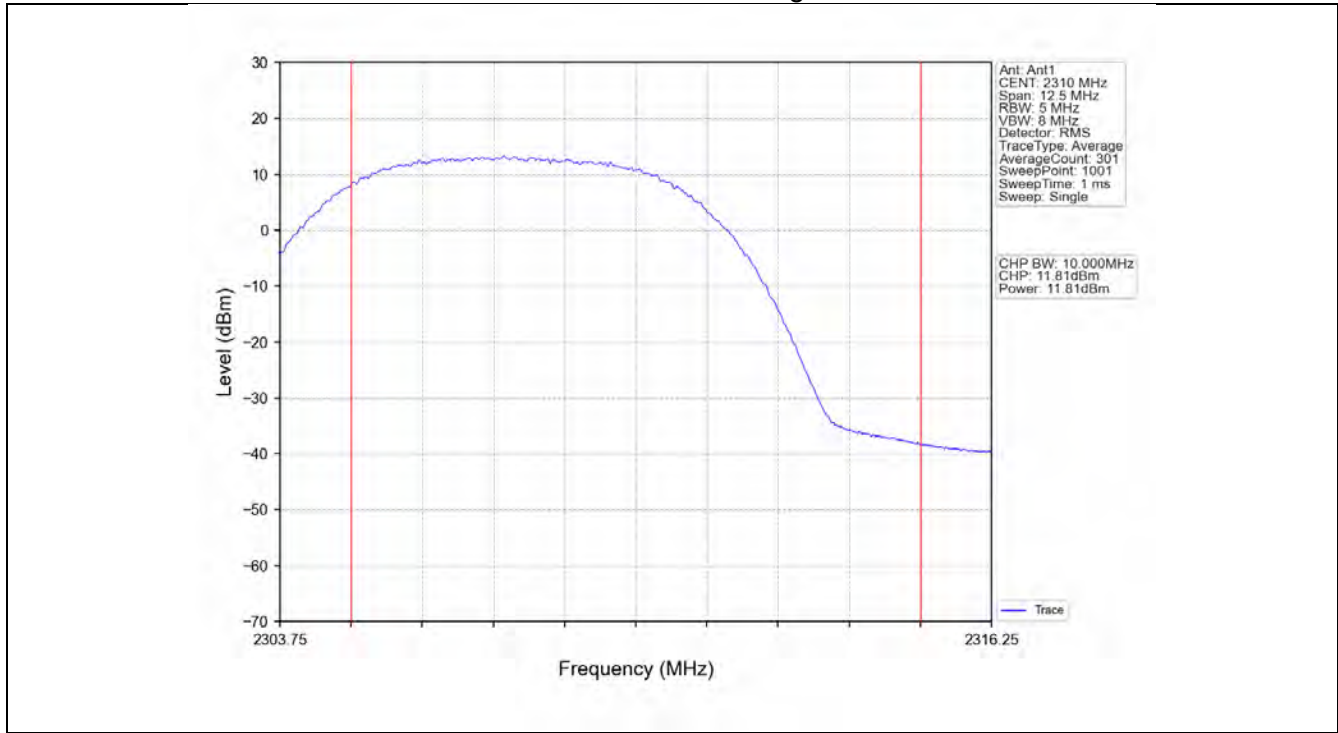


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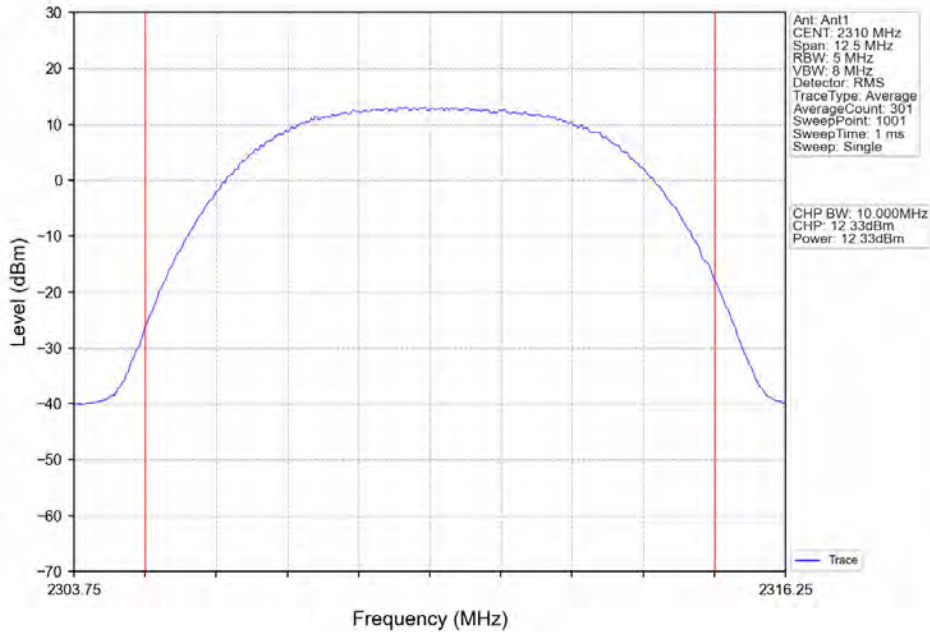
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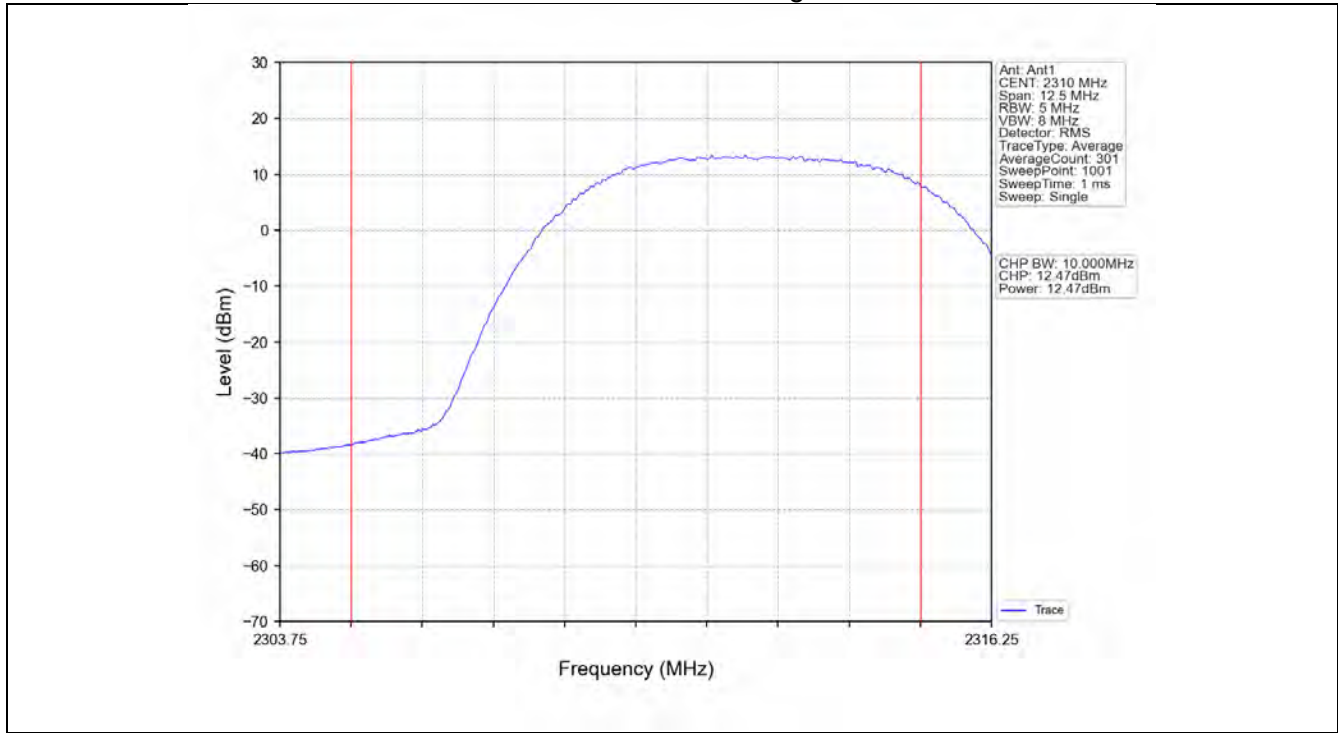
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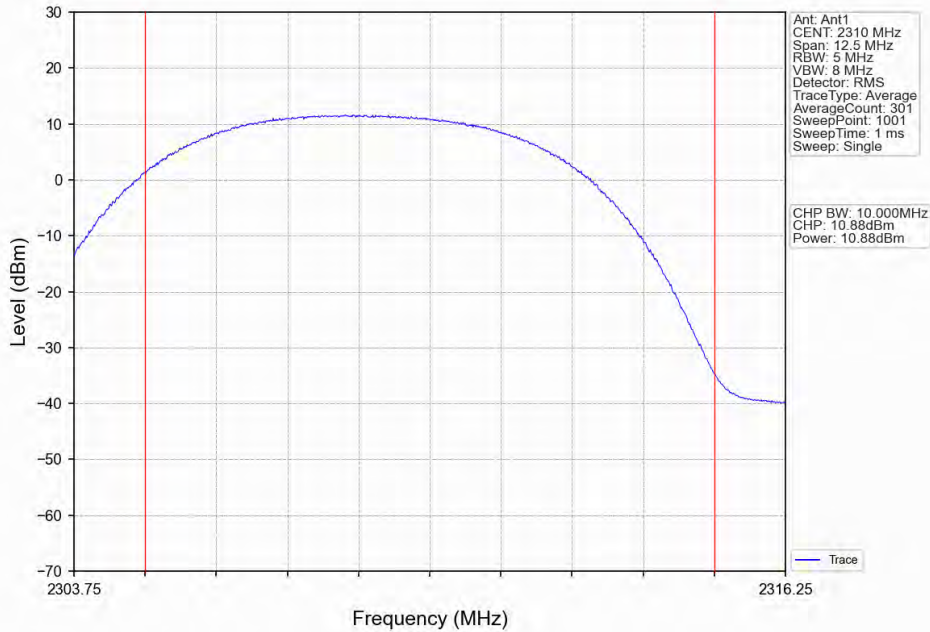


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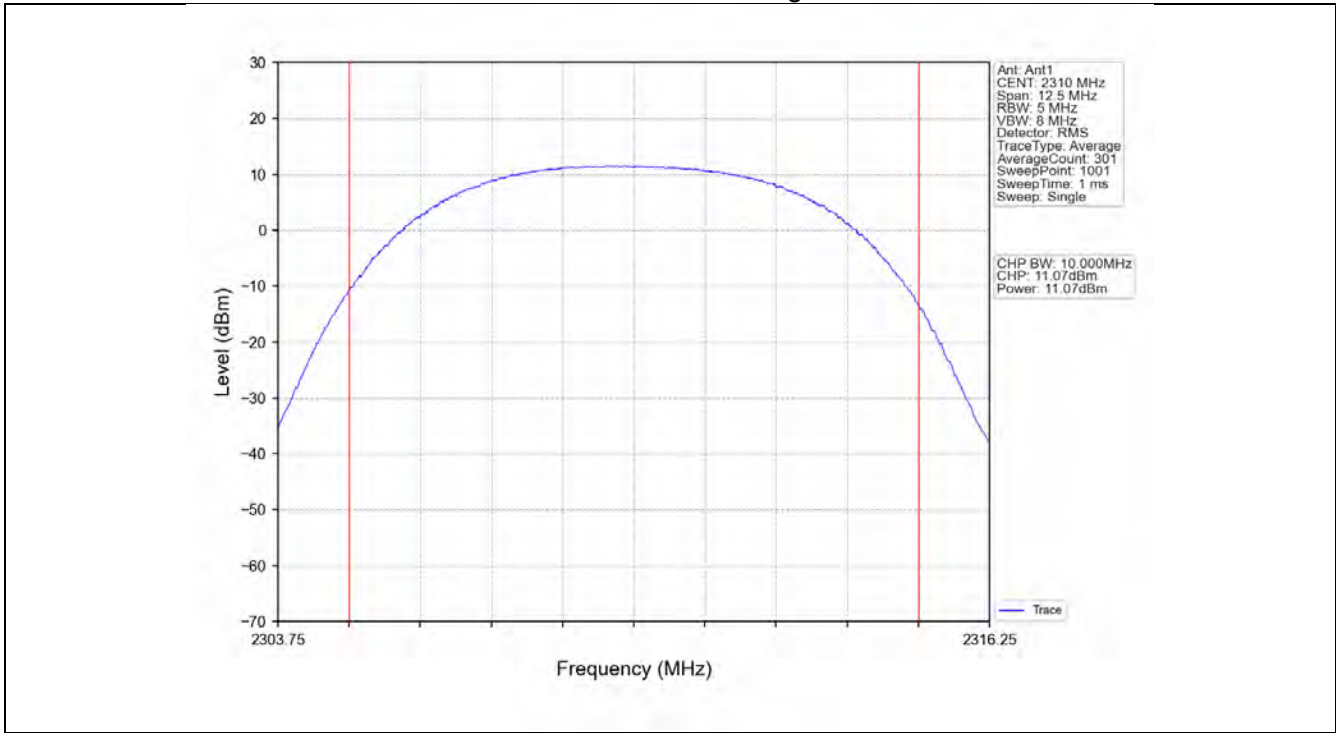
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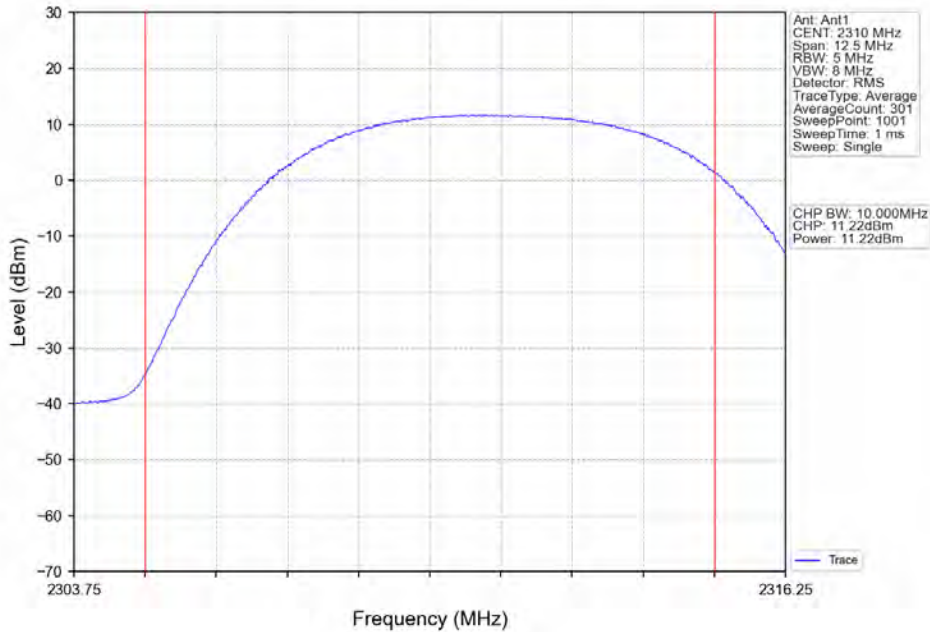


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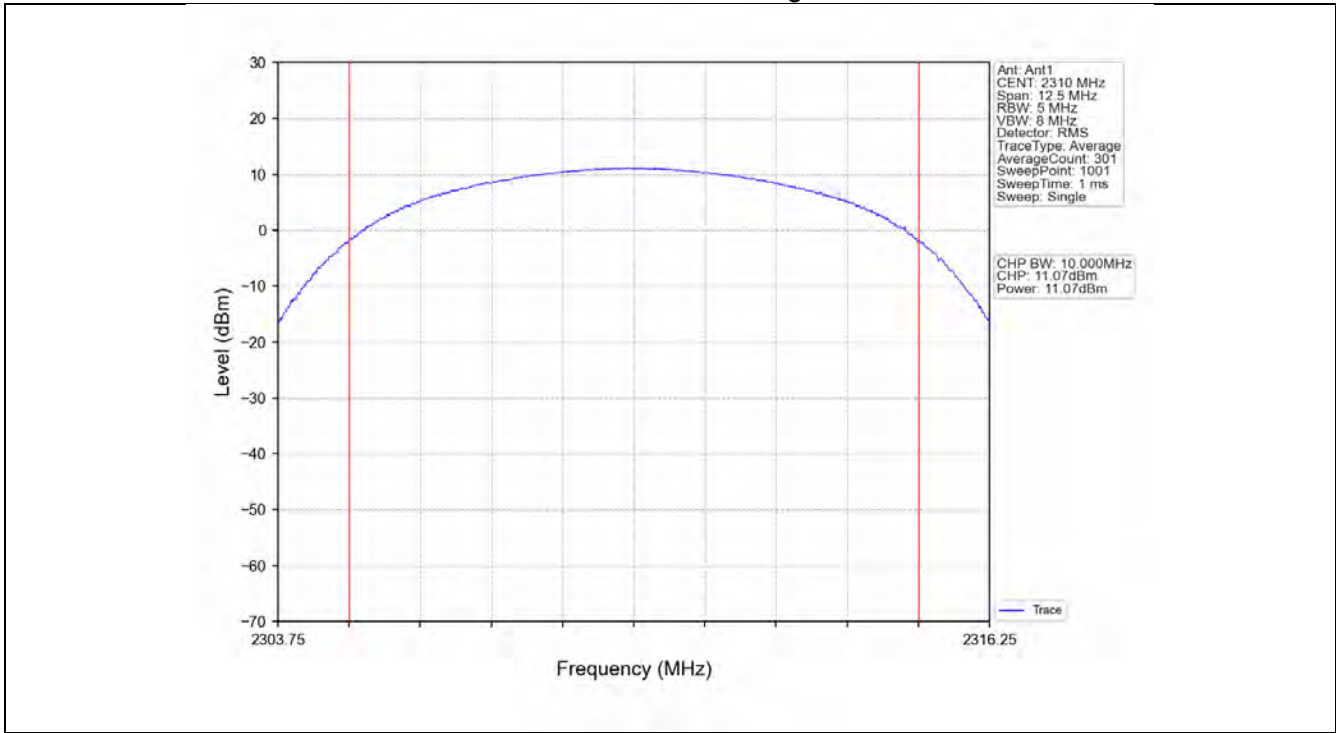
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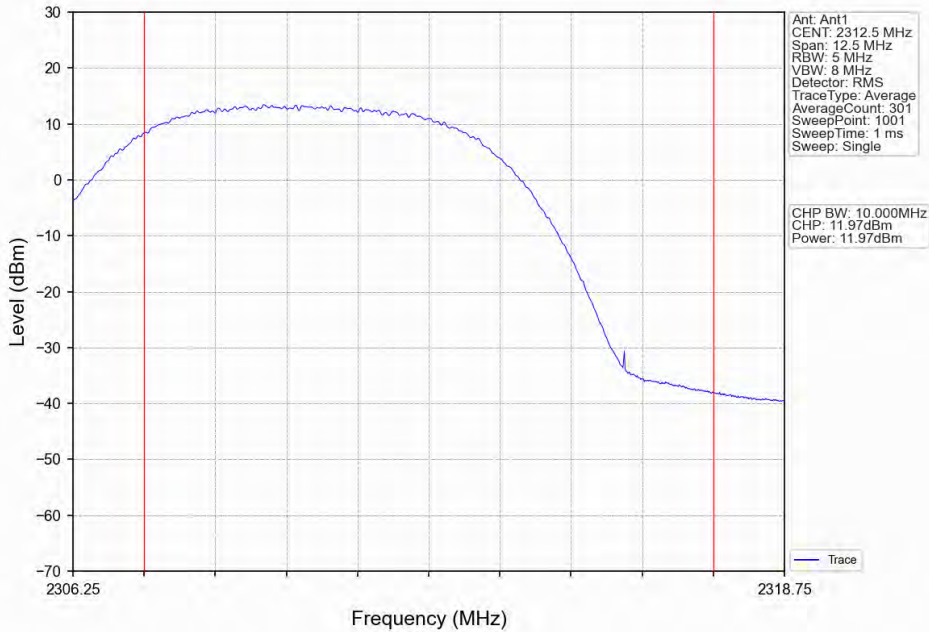


Report No.: SUCR240200003402

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Band30_5MHz_64QAM_HCH_2312.5MHz_RB_1_0_NTNV



Band30_5MHz_64QAM_HCH_2312.5MHz_RB_1_13_NTNV

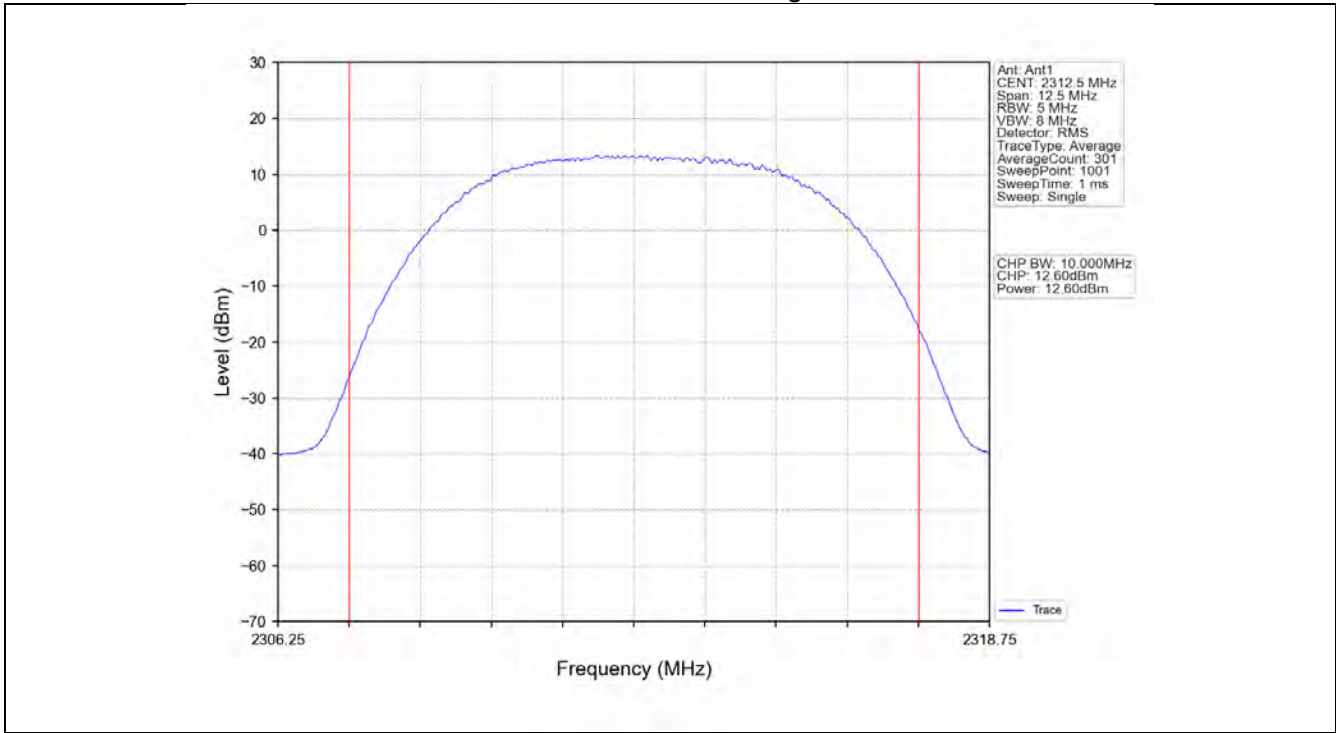


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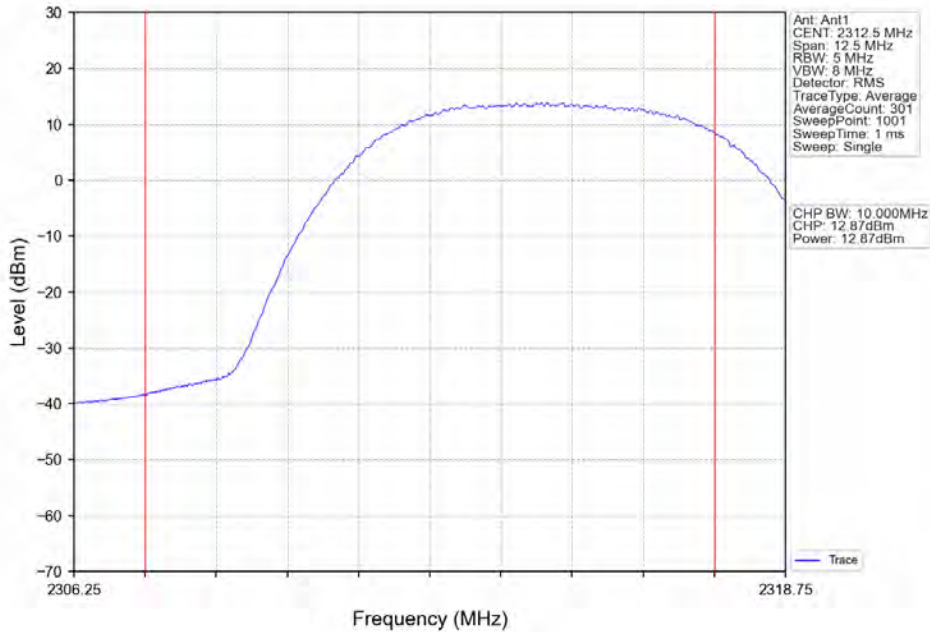


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Band30_5MHz_64QAM_HCH_2312.5MHz_RB_1_24_NTNV



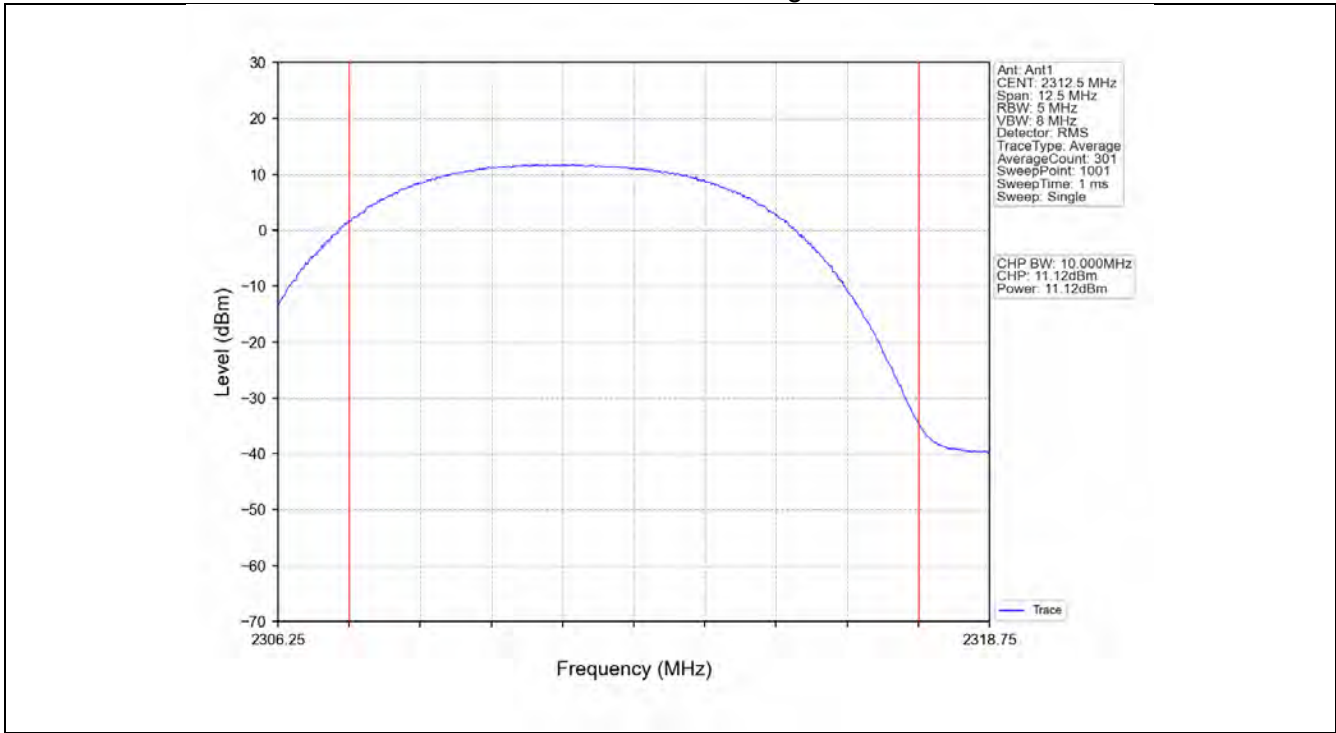
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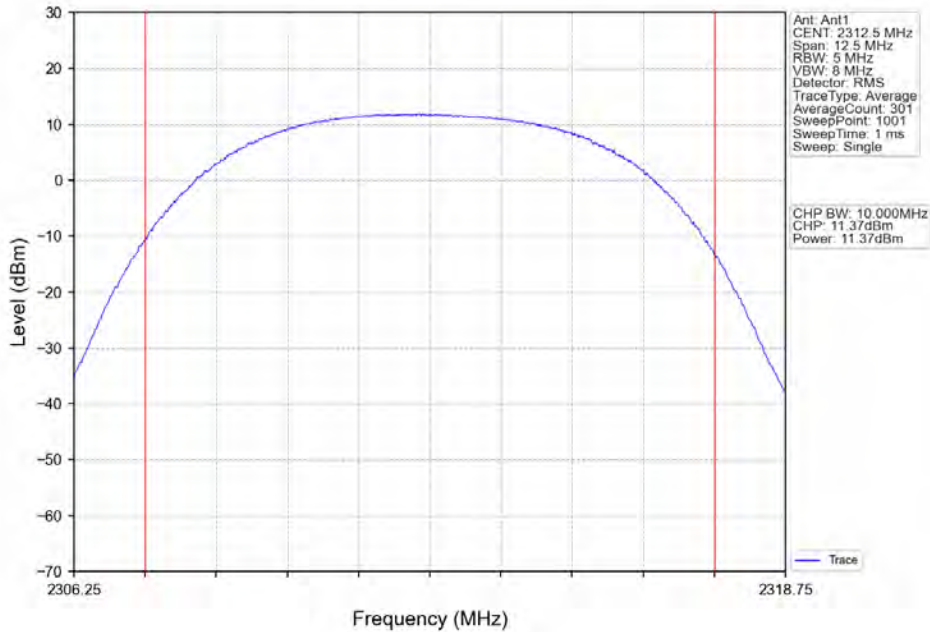


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Band30_5MHz_64QAM_HCH_2312.5MHz_RB_12_6_NTNV



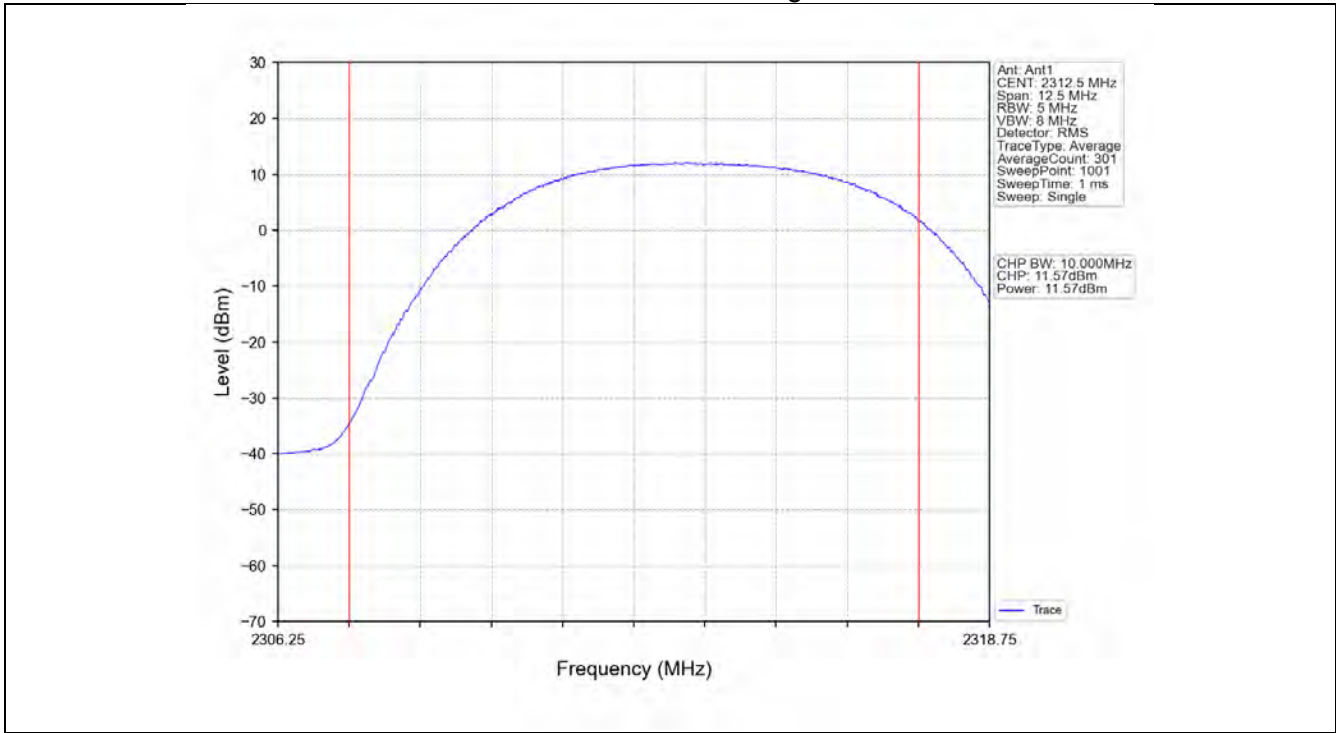
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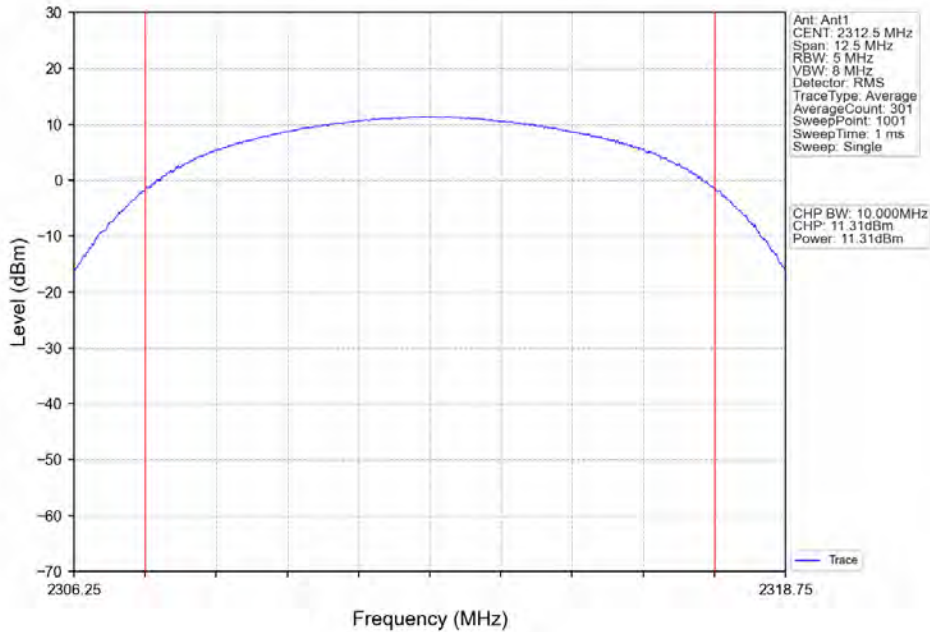


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2. Frequency Stability

2.1 B30_5MHz

2.1.1 Test Result

Band: 30 / Bandwidth: 5MHz										
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	3.5	5.257	0.0023	/	Pass	
					3.87	3.782	0.0016	/	Pass	
					4.45	1.069	0.0005	/	Pass	
				-30	3.87	3.089	0.0013	/	Pass	
					-20	3.87	1.132	0.0005	/	Pass
						-10	3.87	3.006	0.0013	/
				0	3.87	4.190	0.0018	/	Pass	
				10	3.87	-0.392	-0.0002	/	Pass	
				30	3.87	-3.183	-0.0014	/	Pass	
	40	3.87	-0.903	-0.0004	/	Pass				
	50	3.87	4.016	0.0017	/	Pass				
	2310	25	0	20	3.5	-1.249	-0.0005	/	Pass	
					3.87	-3.747	-0.0016	/	Pass	
					4.45	-2.418	-0.0010	/	Pass	
				-30	3.87	0.169	0.0001	/	Pass	
					-20	3.87	4.622	0.0020	/	Pass
						-10	3.87	0.124	0.0001	/
				0	3.87	-3.778	-0.0016	/	Pass	
				10	3.87	-0.980	-0.0004	/	Pass	
				30	3.87	1.305	0.0006	/	Pass	
	40	3.87	-0.243	-0.0001	/	Pass				
	50	3.87	-1.139	-0.0005	/	Pass				
	2312.5	25	0	20	3.5	1.184	0.0005	/	Pass	
					3.87	0.186	0.0001	/	Pass	
					4.45	6.305	0.0027	/	Pass	
				-30	3.87	-5.239	-0.0023	/	Pass	
					-20	3.87	1.959	0.0008	/	Pass
-10						3.87	-1.168	-0.0005	/	Pass
0				3.87	1.625	0.0007	/	Pass		
10				3.87	0.901	0.0004	/	Pass		
30				3.87	1.817	0.0008	/	Pass		
40	3.87	-5.693	-0.0025	/	Pass					
50	3.87	4.607	0.0020	/	Pass					
16QAM	2307.5	25	0	20	3.5	-3.601	-0.0016	/	Pass	
					3.87	0.698	0.0003	/	Pass	
					4.45	-3.791	-0.0016	/	Pass	
				-30	3.87	2.177	0.0009	/	Pass	



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64QAM	2310	25	0	-20	3.87	-3.556	-0.0015	/	Pass			
				-10	3.87	1.463	0.0006	/	Pass			
				0	3.87	2.173	0.0009	/	Pass			
				10	3.87	1.002	0.0004	/	Pass			
				30	3.87	-0.867	-0.0004	/	Pass			
				40	3.87	3.207	0.0014	/	Pass			
				50	3.87	-2.233	-0.0010	/	Pass			
	2312.5	25	0	20	3.5	3.460	0.0015	/	Pass			
					3.87	-0.372	-0.0002	/	Pass			
					4.45	-3.282	-0.0014	/	Pass			
				-30	3.87	2.948	0.0013	/	Pass			
				-20	3.87	-0.278	-0.0001	/	Pass			
				-10	3.87	-0.281	-0.0001	/	Pass			
				0	3.87	6.144	0.0027	/	Pass			
				10	3.87	-1.694	-0.0007	/	Pass			
				30	3.87	2.473	0.0011	/	Pass			
				40	3.87	1.349	0.0006	/	Pass			
				50	3.87	-0.678	-0.0003	/	Pass			
				2307.5	25	0	20	3.5	0.379	0.0002	/	Pass
								3.87	-1.594	-0.0007	/	Pass
	4.45	-4.197	-0.0018					/	Pass			
	-30	3.87	3.471				0.0015	/	Pass			
	-20	3.87	2.317				0.0010	/	Pass			
	-10	3.87	-2.358				-0.0010	/	Pass			
	0	3.87	2.929				0.0013	/	Pass			
	10	3.87	5.157				0.0022	/	Pass			
	30	3.87	-1.275				-0.0006	/	Pass			
	40	3.87	3.913				0.0017	/	Pass			
	50	3.87	-2.468				-0.0011	/	Pass			
	2310	25	0				20	3.5	3.373	0.0015	/	Pass
3.87								-7.097	-0.0031	/	Pass	
4.45								11.304	0.0049	/	Pass	
-30				3.87	0.926	0.0004	/	Pass				
-20				3.87	-2.686	-0.0012	/	Pass				
-10				3.87	1.010	0.0004	/	Pass				
0				3.87	4.278	0.0019	/	Pass				
10				3.87	-0.613	-0.0003	/	Pass				
30				3.87	0.311	0.0001	/	Pass				
40				3.87	2.563	0.0011	/	Pass				
50				3.87	1.278	0.0006	/	Pass				
2310				25	0	20	3.5	3.771	0.0016	/	Pass	
							3.87	-2.802	-0.0012	/	Pass	
	4.45	-0.967	-0.0004				/	Pass				
	-30	3.87	-1.624			-0.0007	/	Pass				
	-20	3.87	3.949			0.0017	/	Pass				
	-10	3.87	-3.358			-0.0015	/	Pass				
	0	3.87	0.195			0.0001	/	Pass				
10	3.87	-1.543	-0.0007	/	Pass							
30	3.87	0.699	0.0003	/	Pass							



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Report No.: SUCR240200003402

Rev.: 01

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2312.5	25	0	40	3.87	-0.676	-0.0003	/	Pass
			50	3.87	2.143	0.0009	/	Pass
			20	3.5	0.647	0.0003	/	Pass
				3.87	0.560	0.0002	/	Pass
				4.45	1.502	0.0006	/	Pass
			-30	3.87	1.450	0.0006	/	Pass
			-20	3.87	-0.851	-0.0004	/	Pass
			-10	3.87	1.369	0.0006	/	Pass
			0	3.87	4.101	0.0018	/	Pass
			10	3.87	1.199	0.0005	/	Pass
			30	3.87	-2.075	-0.0009	/	Pass
			40	3.87	3.480	0.0015	/	Pass
			50	3.87	-1.739	-0.0008	/	Pass



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2.2 B30_10MHz

2.2.1 Test Result

Band: 30 / 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	3.5	-2.529	-0.0011	/	Pass
					3.87	2.089	0.0009	/	Pass
					4.45	6.305	0.0027	/	Pass
				-30	3.87	1.931	0.0008	/	Pass
				-20	3.87	0.263	0.0001	/	Pass
				-10	3.87	4.464	0.0019	/	Pass
				0	3.87	1.512	0.0007	/	Pass
				10	3.87	2.062	0.0009	/	Pass
				30	3.87	1.122	0.0005	/	Pass
				40	3.87	-2.433	-0.0011	/	Pass
50	3.87	-1.647	-0.0007	/	Pass				
16QAM	2310	50	0	20	3.5	0.795	0.0003	/	Pass
					3.87	1.483	0.0006	/	Pass
					4.45	5.090	0.0022	/	Pass
				-30	3.87	-1.051	-0.0005	/	Pass
				-20	3.87	0.962	0.0004	/	Pass
				-10	3.87	-1.160	-0.0005	/	Pass
				0	3.87	1.230	0.0005	/	Pass
				10	3.87	1.886	0.0008	/	Pass
				30	3.87	2.819	0.0012	/	Pass
				40	3.87	-1.759	-0.0008	/	Pass
50	3.87	2.679	0.0012	/	Pass				
64QAM	2310	50	0	20	3.5	-2.666	-0.0012	/	Pass
					3.87	2.983	0.0013	/	Pass
					4.45	1.849	0.0008	/	Pass
				-30	3.87	4.290	0.0019	/	Pass
				-20	3.87	-0.204	-0.0001	/	Pass
				-10	3.87	-5.007	-0.0022	/	Pass
				0	3.87	2.754	0.0012	/	Pass
				10	3.87	4.271	0.0018	/	Pass
				30	3.87	6.176	0.0027	/	Pass
				40	3.87	3.118	0.0013	/	Pass
50	3.87	2.601	0.0011	/	Pass				



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3. 99% & 26dB Bandwidth

3.1 Band30_OBW

3.1.1 Test Result

Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	4.548	/	Pass
		2310	25	0	4.545	/	Pass
		2312.5	25	0	4.554	/	Pass
	16QAM	2307.5	25	0	4.562	/	Pass
		2310	25	0	4.549	/	Pass
		2312.5	25	0	4.538	/	Pass
	64QAM	2307.5	25	0	4.557	/	Pass
		2310	25	0	4.544	/	Pass
		2312.5	25	0	4.547	/	Pass
10	QPSK	2310	50	0	9.057	/	Pass
	16QAM	2310	50	0	9.065	/	Pass
	64QAM	2310	50	0	9.042	/	Pass

3.2 Band30_XDB

3.2.1 Test Result

Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	5.067	/	Pass
		2310	25	0	5.025	/	Pass
		2312.5	25	0	5.090	/	Pass
	16QAM	2307.5	25	0	5.079	/	Pass
		2310	25	0	5.088	/	Pass
		2312.5	25	0	5.057	/	Pass
	64QAM	2307.5	25	0	5.056	/	Pass
		2310	25	0	5.059	/	Pass
		2312.5	25	0	5.041	/	Pass
10	QPSK	2310	50	0	10.037	/	Pass
	16QAM	2310	50	0	10.079	/	Pass
	64QAM	2310	50	0	9.898	/	Pass

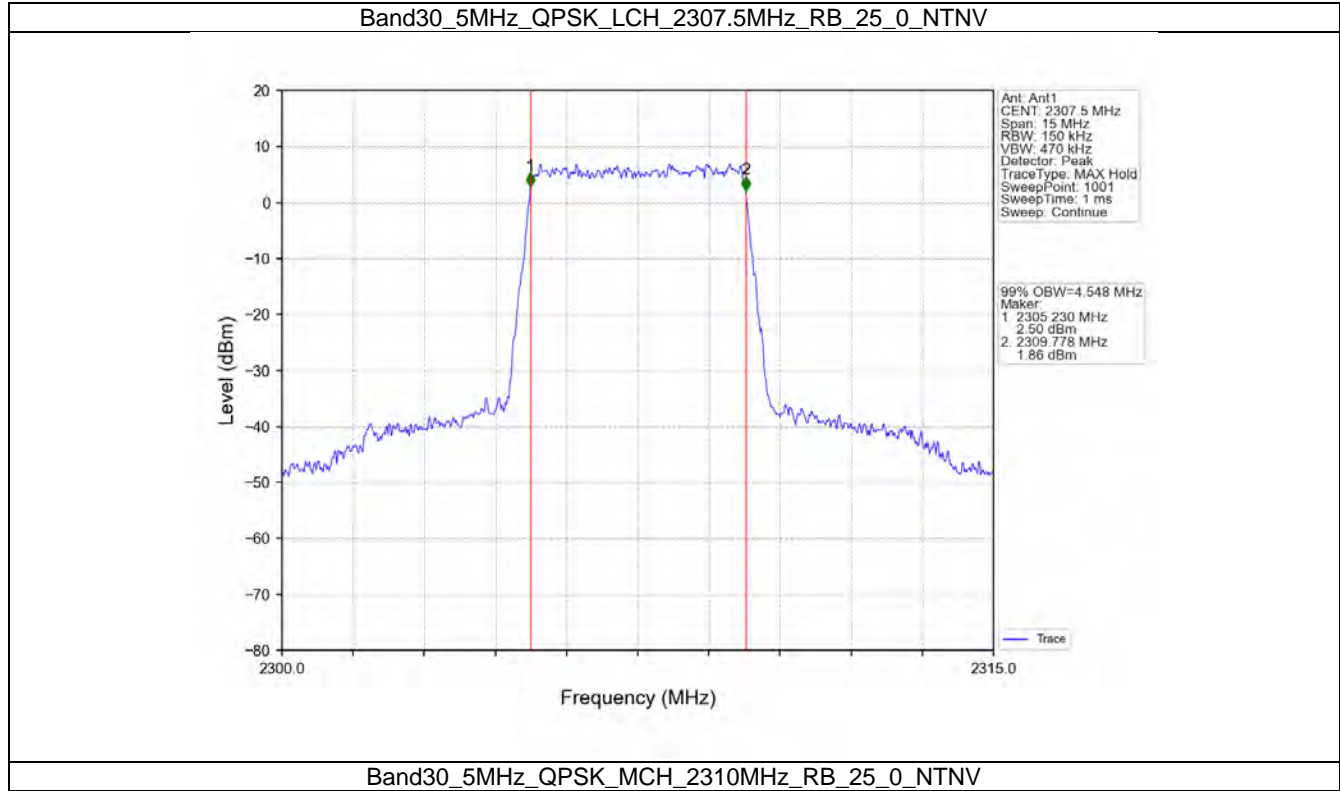


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3.1 Band30_OBW

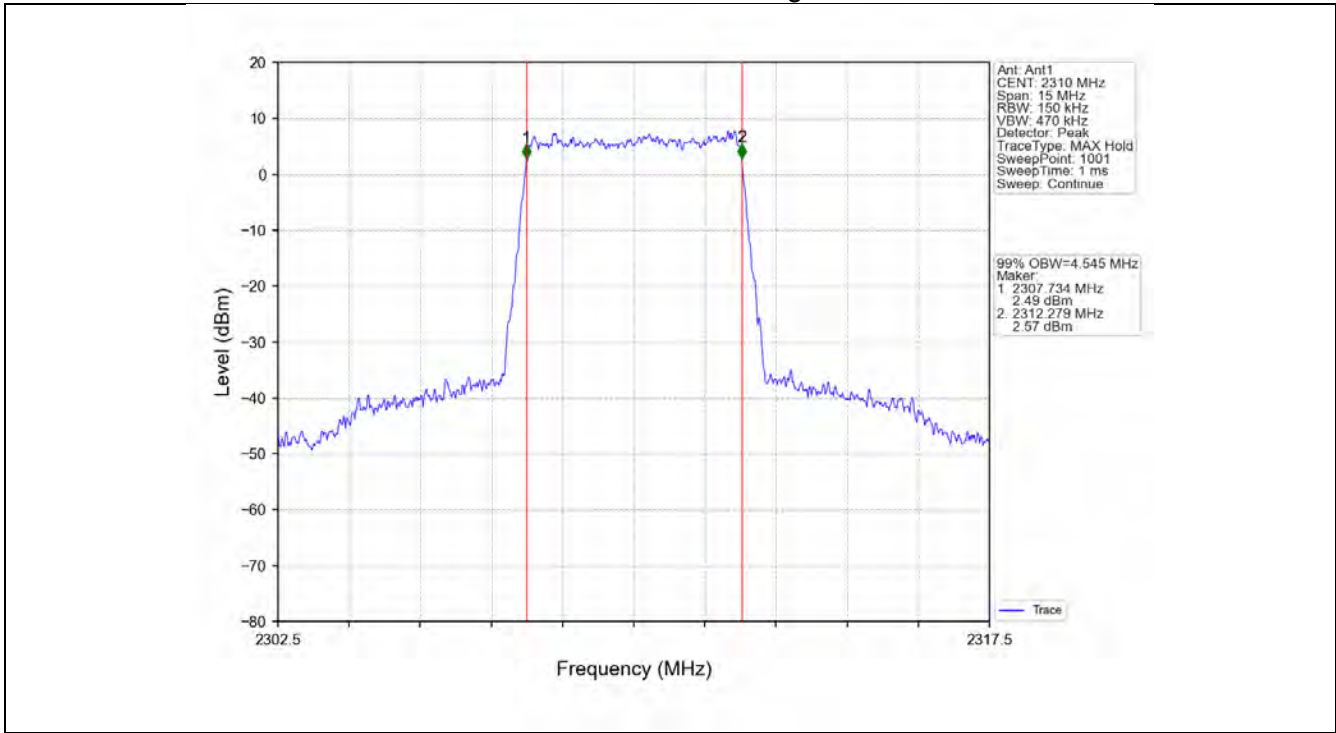
3.1.2 Test Graph



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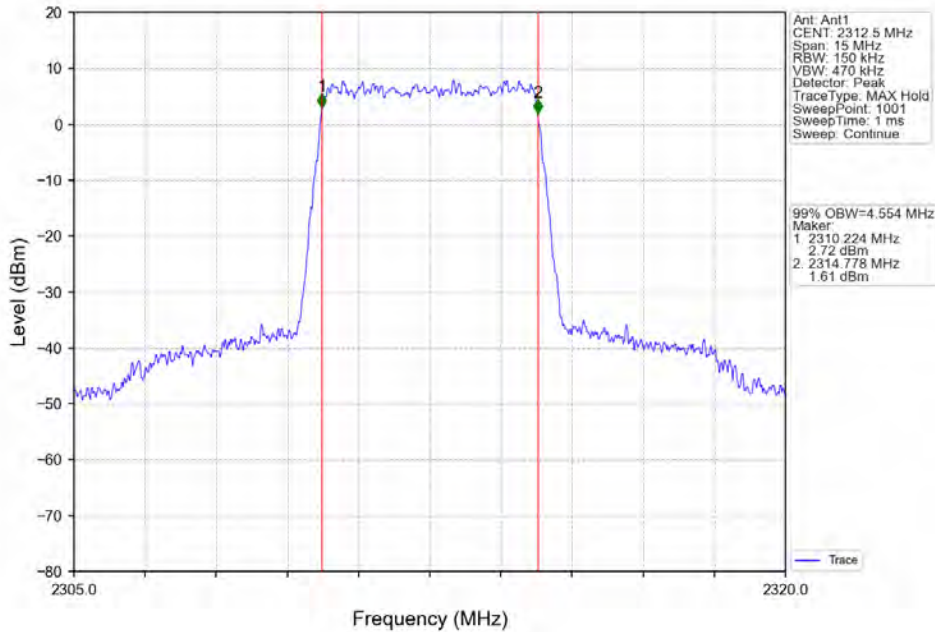


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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



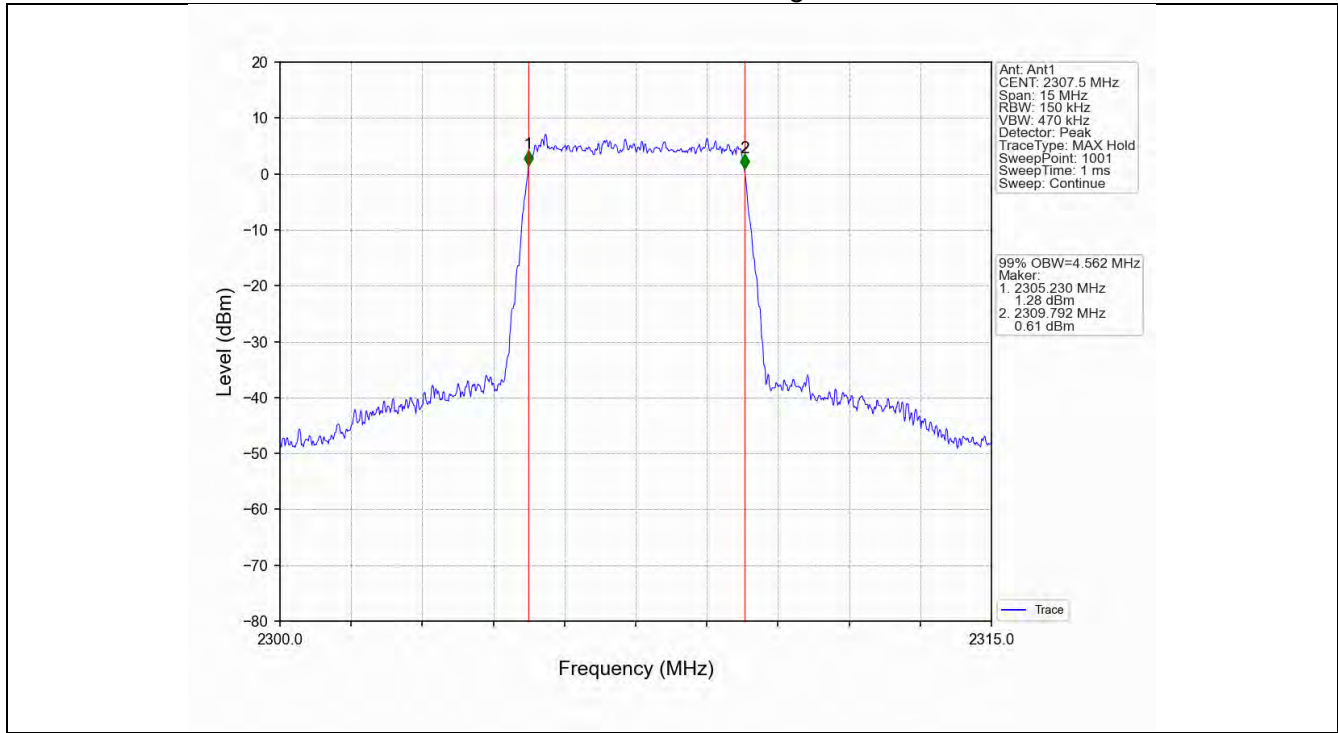
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



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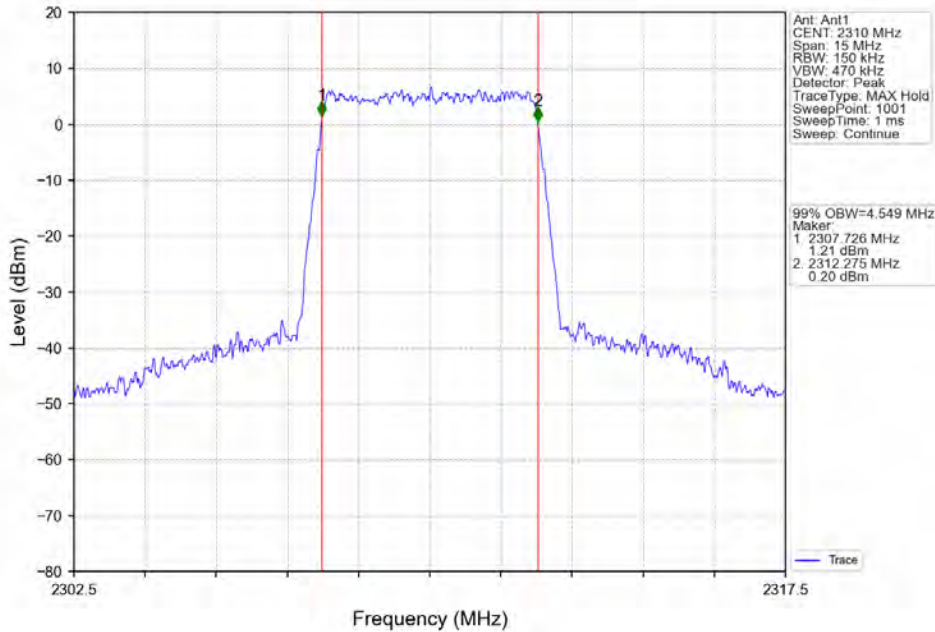


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Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



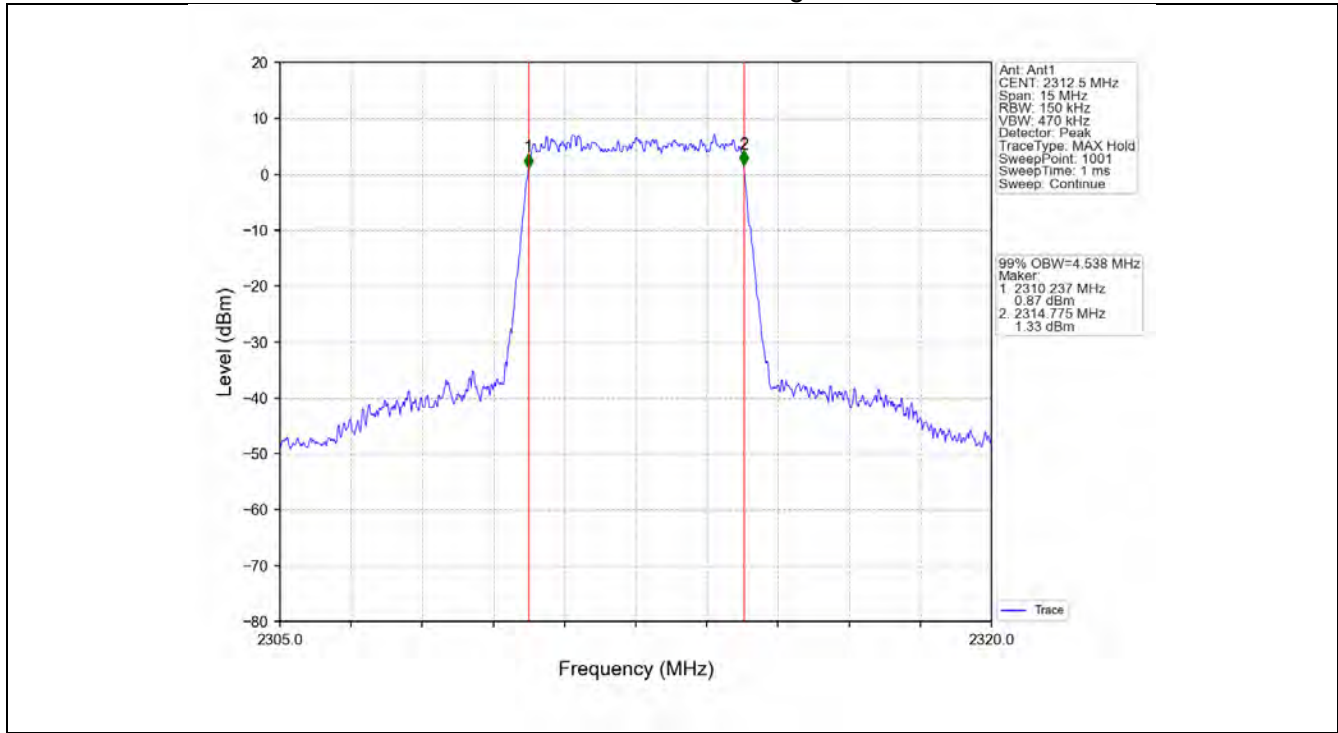
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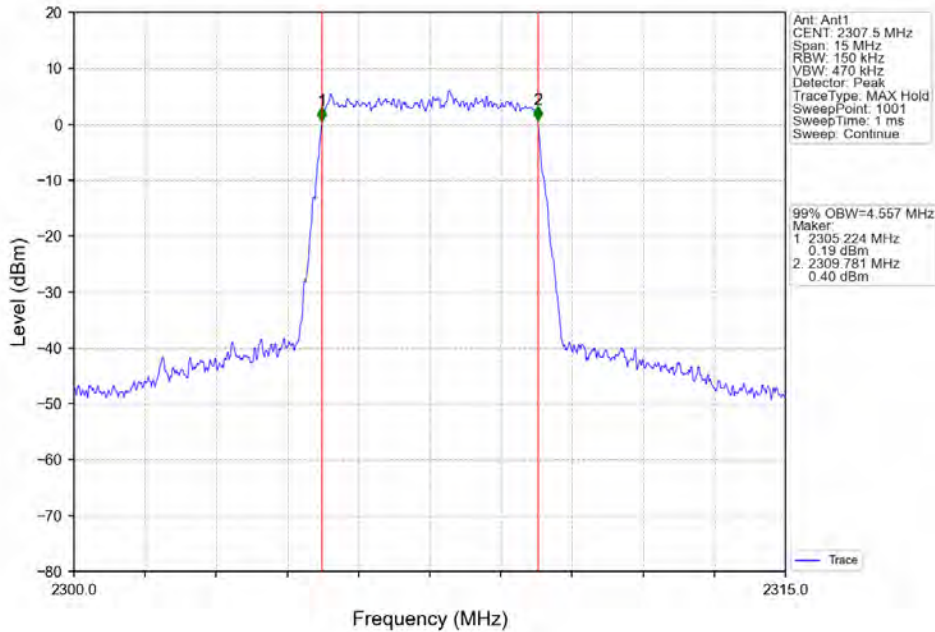


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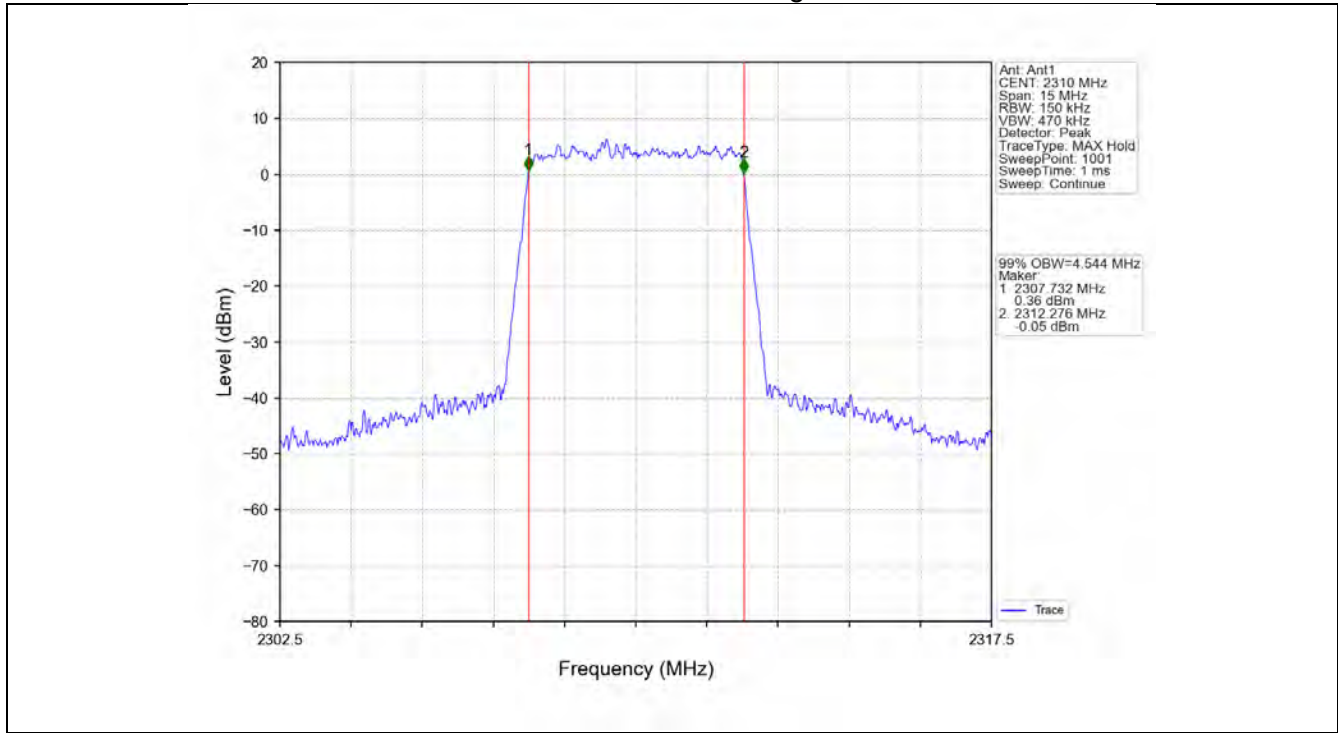
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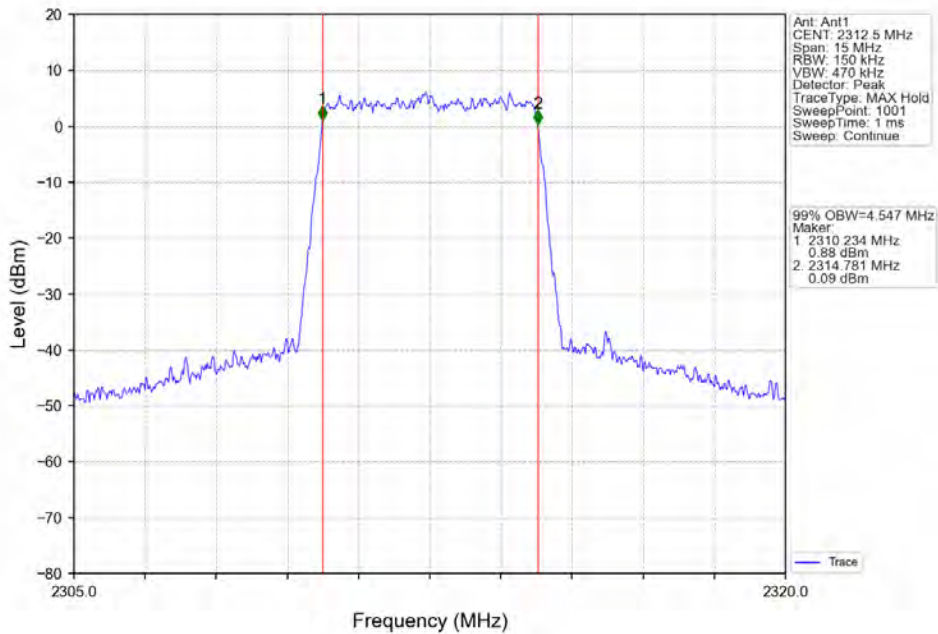
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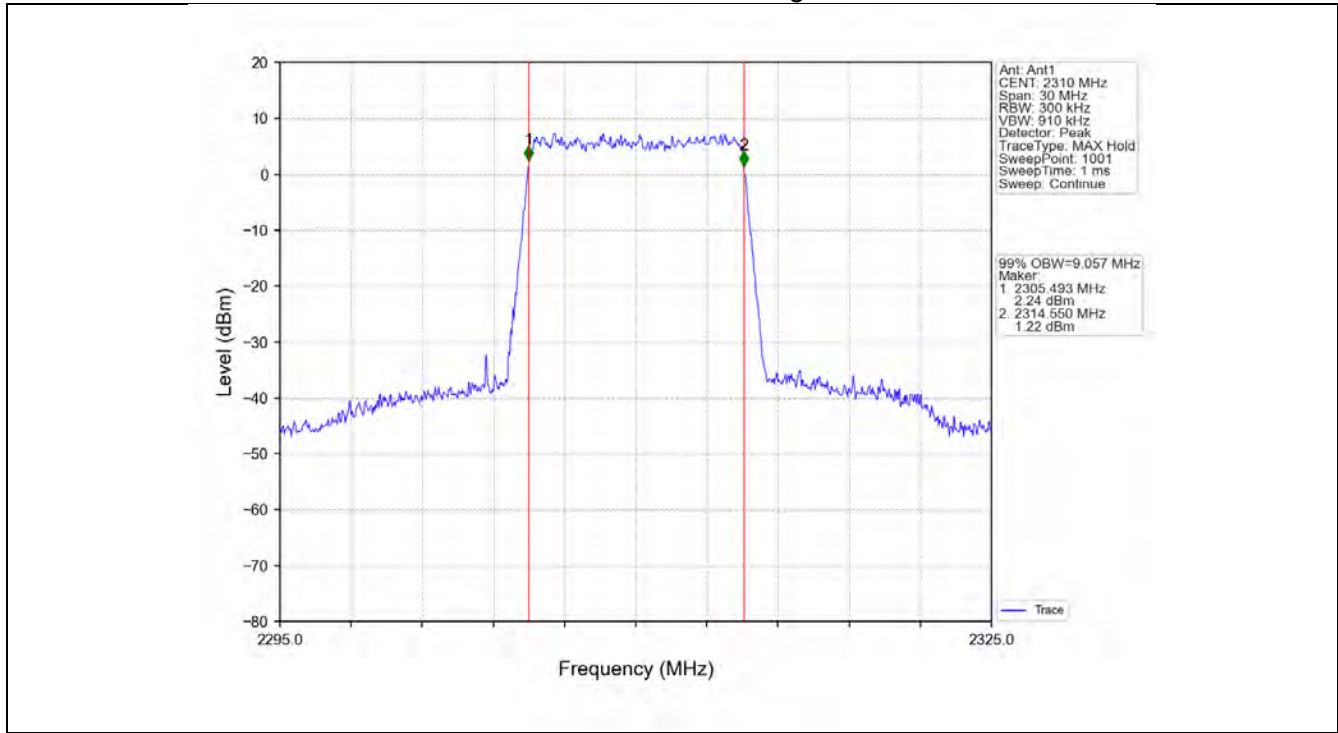
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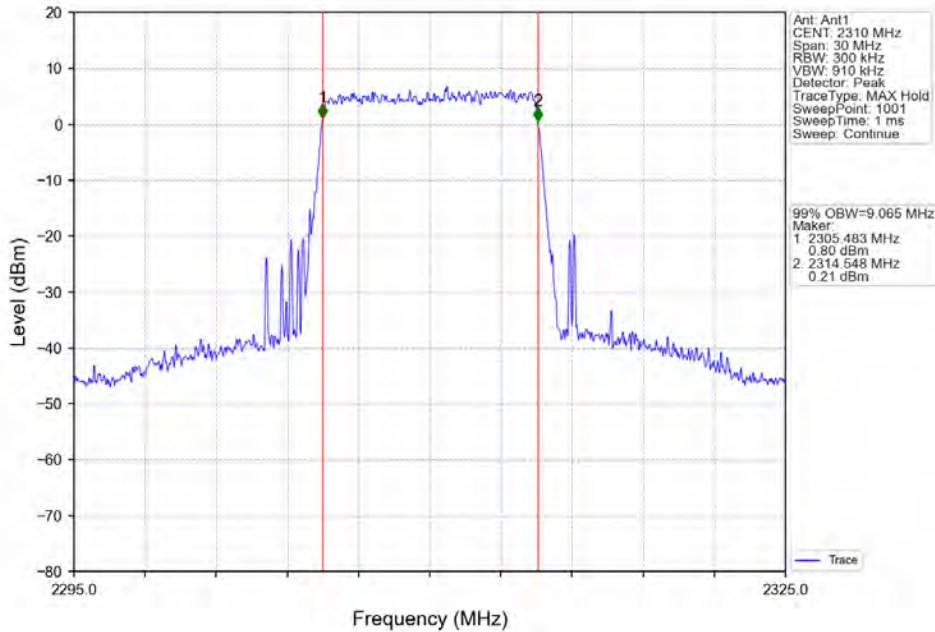


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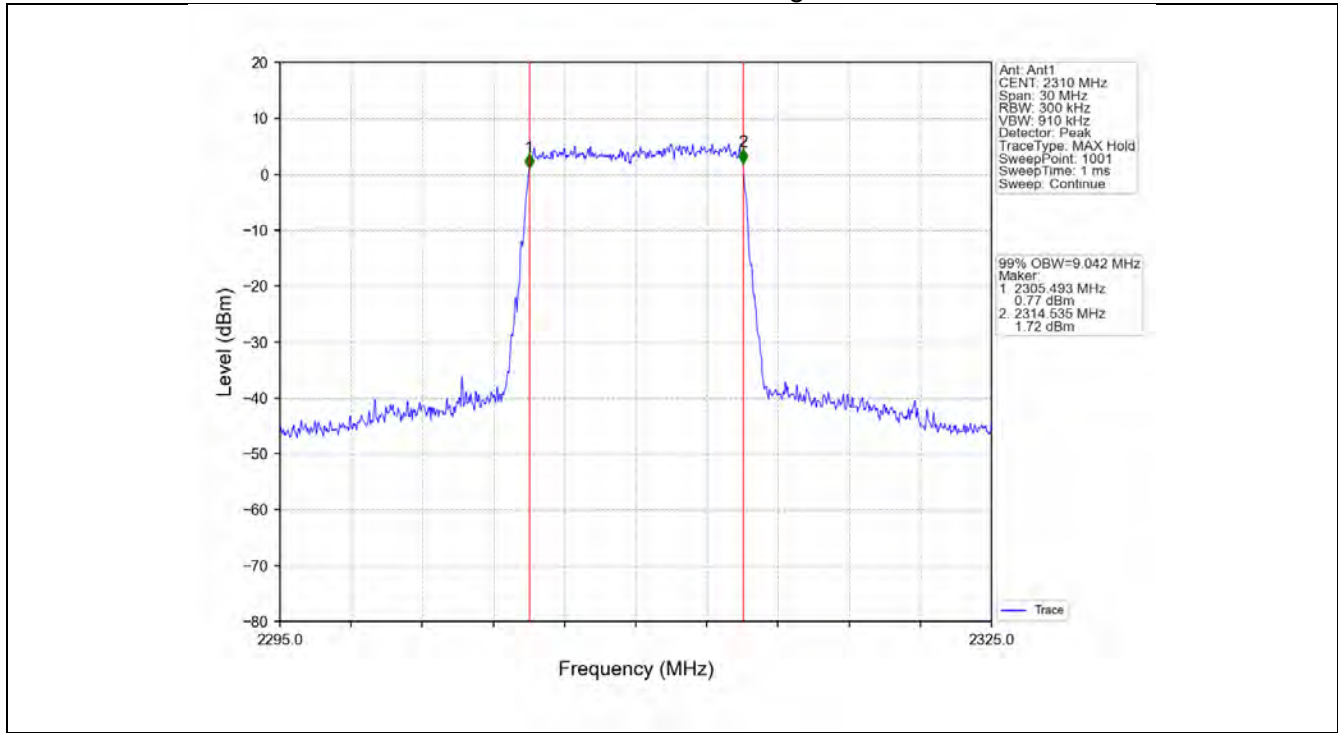
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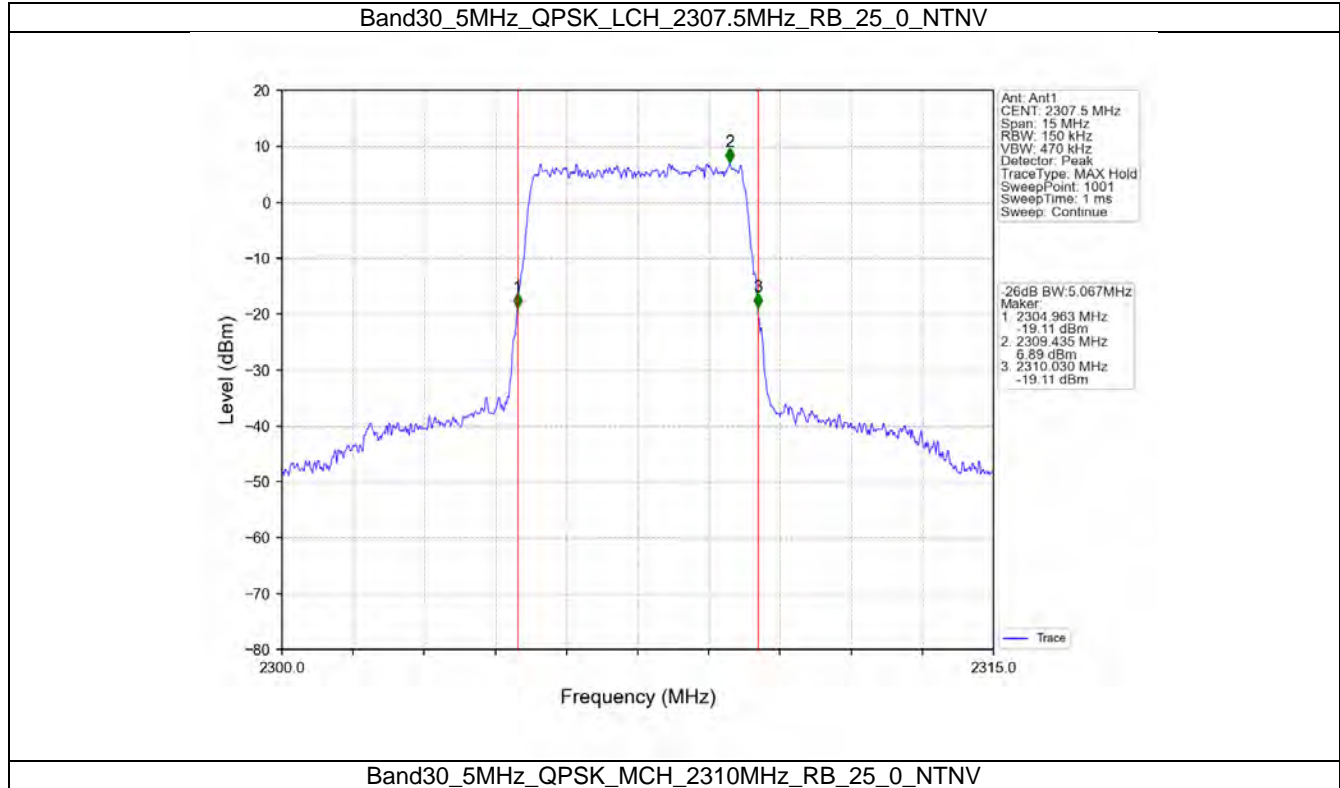
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3.2 Band30_XDB

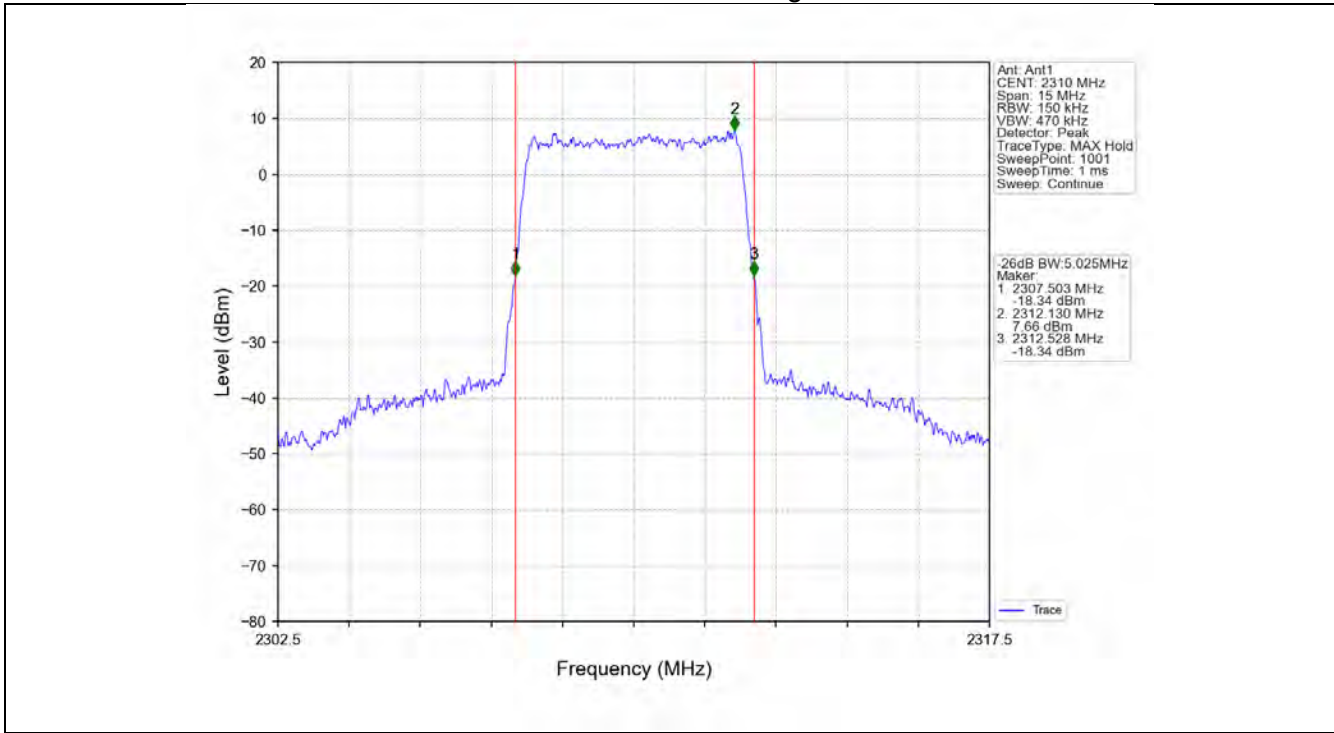
3.2.2 Test Graph



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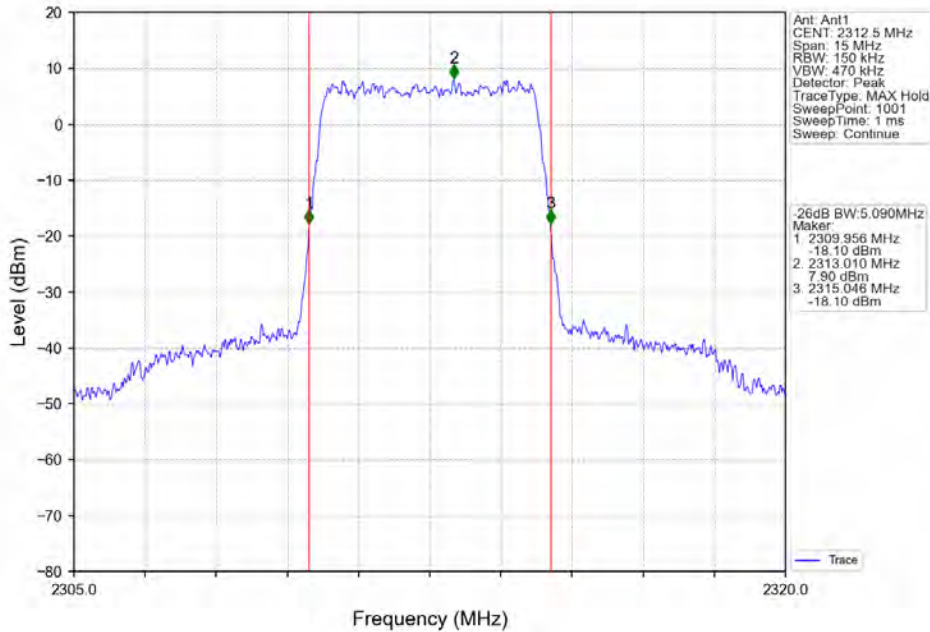


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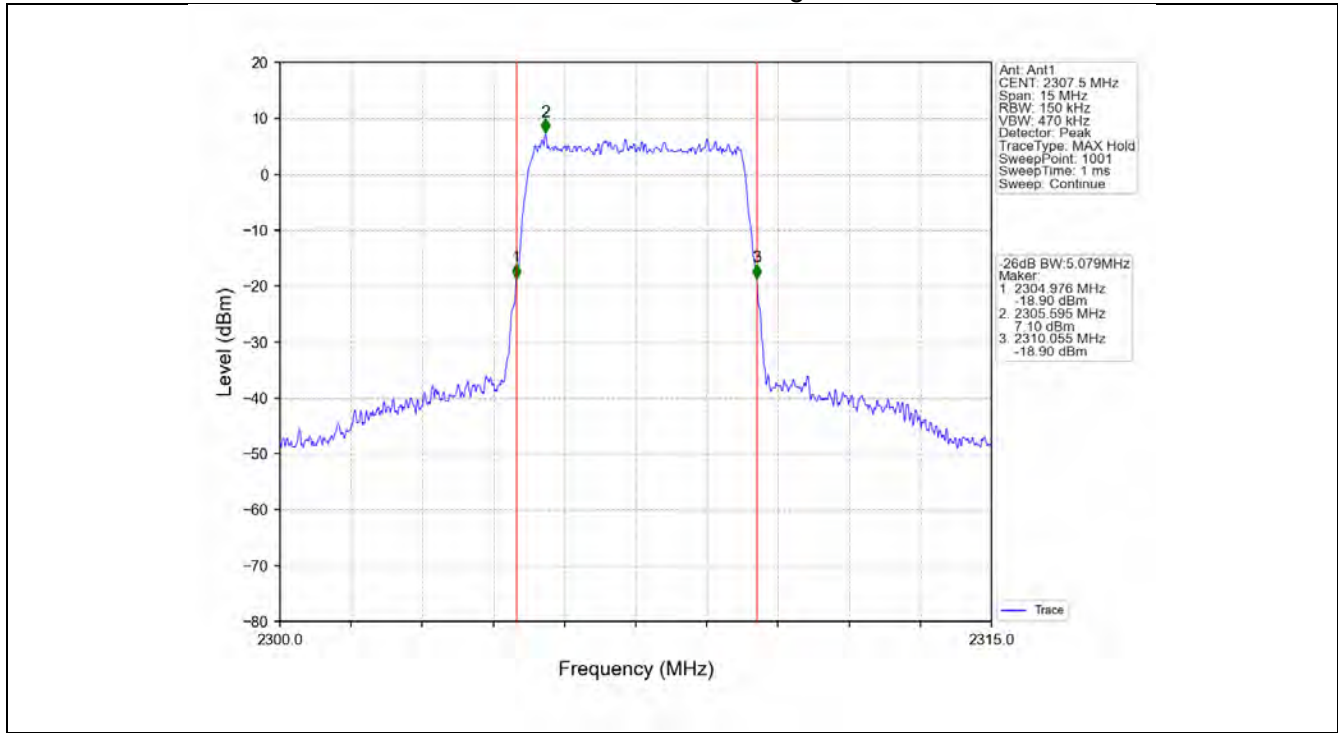
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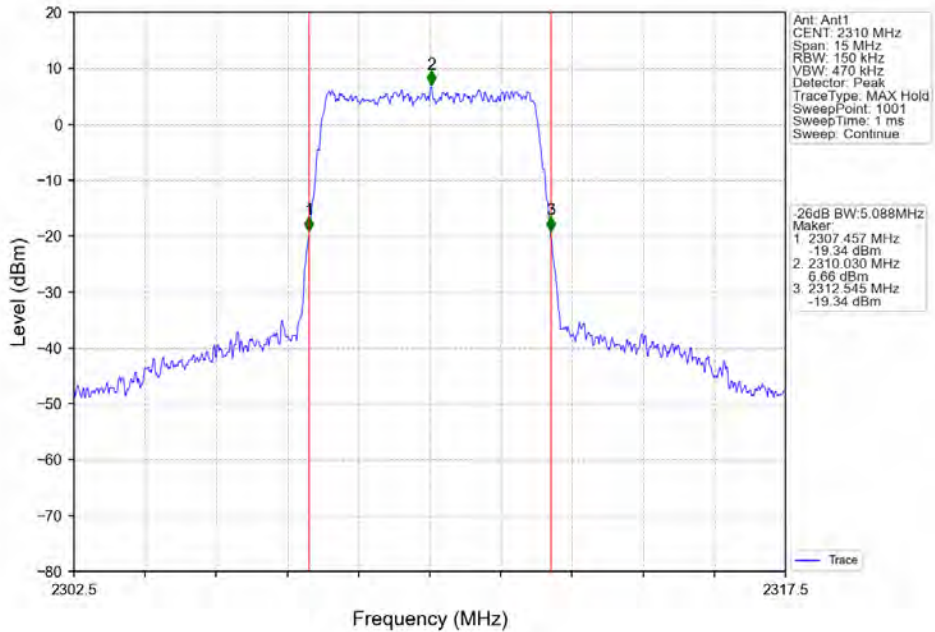


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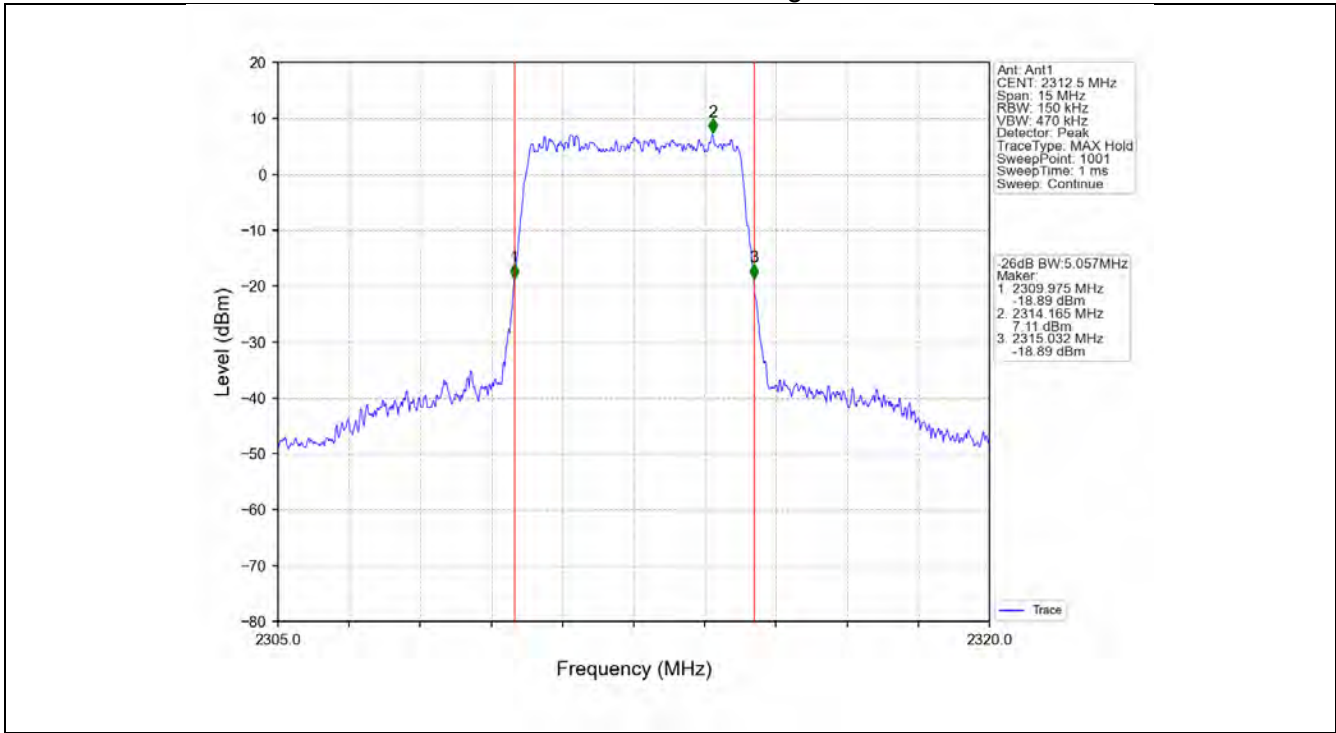
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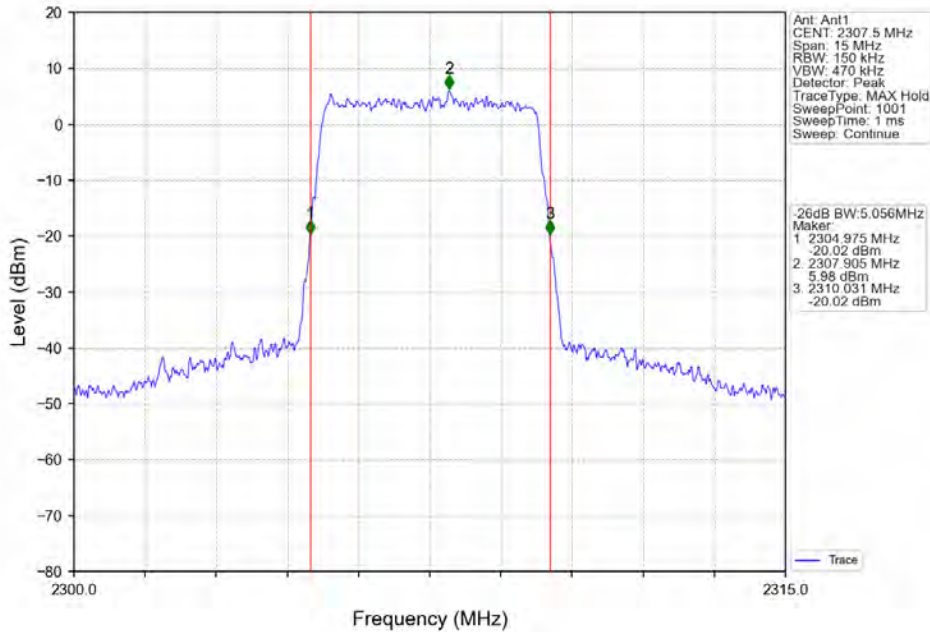


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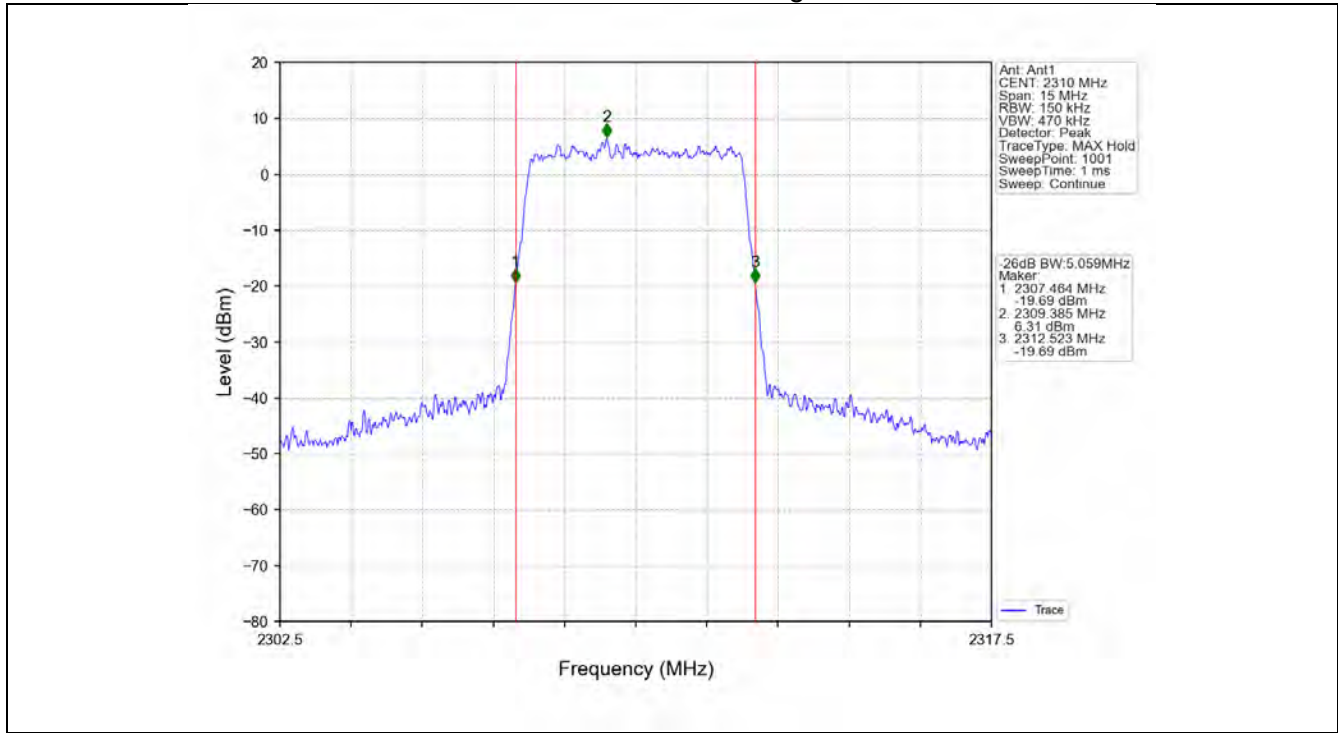
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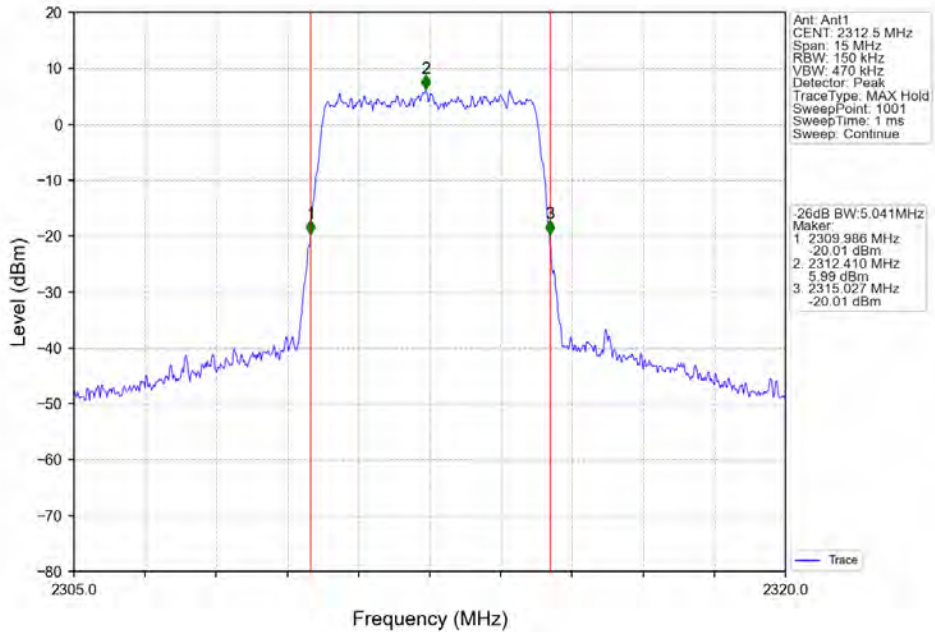


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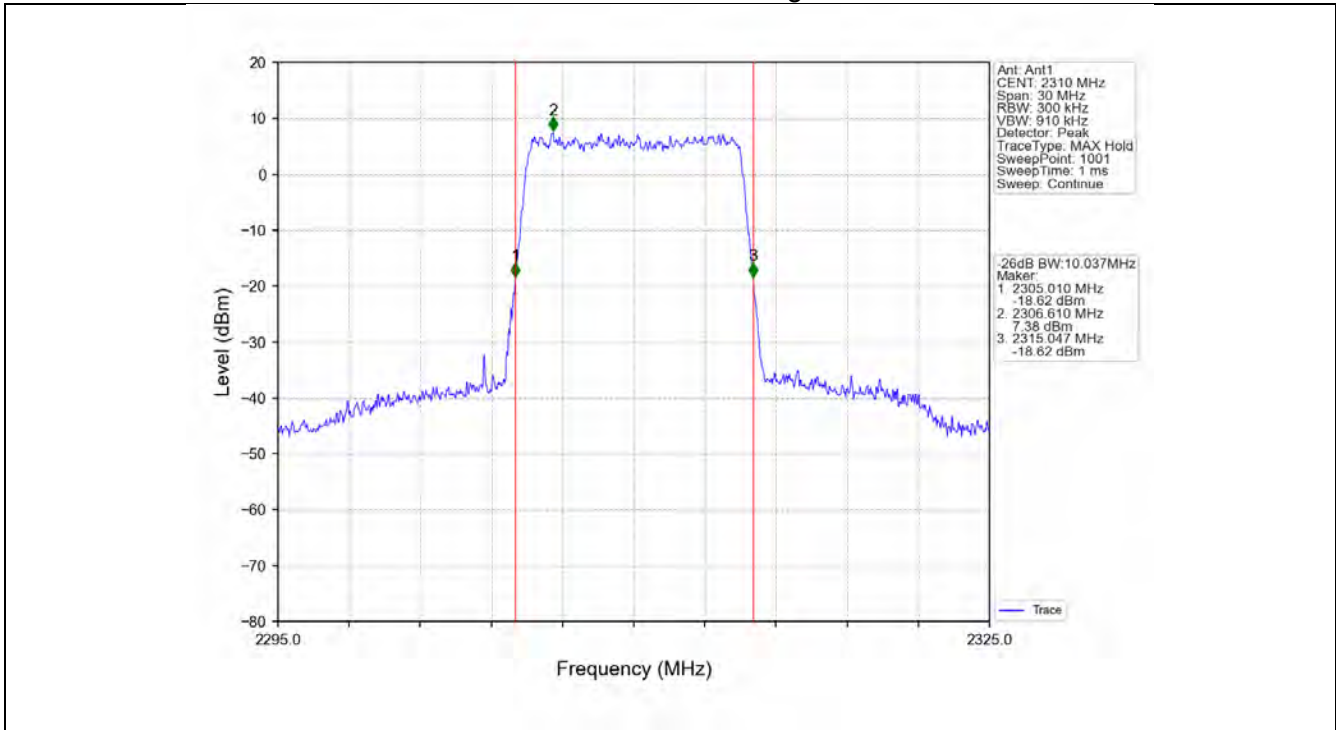
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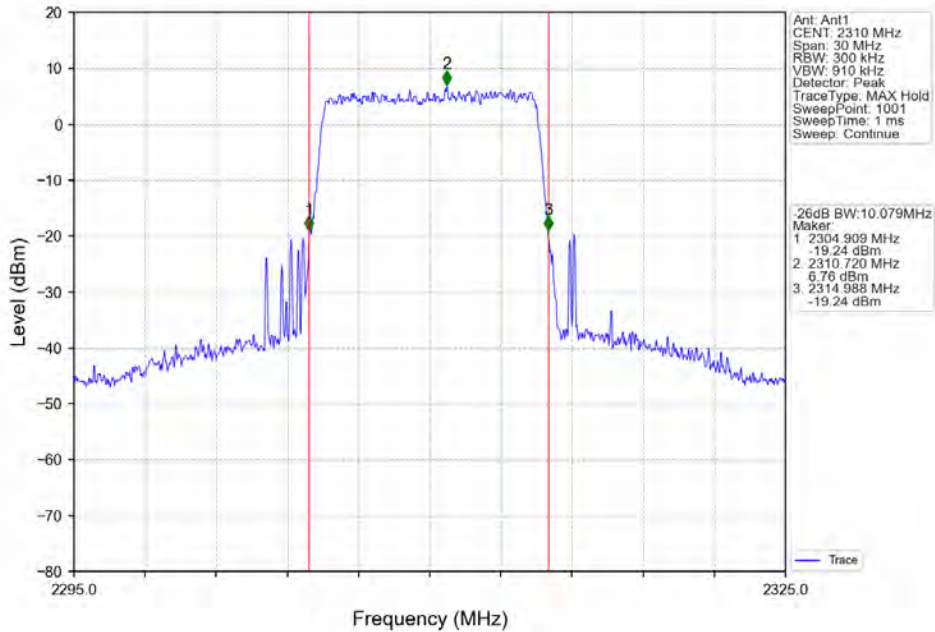


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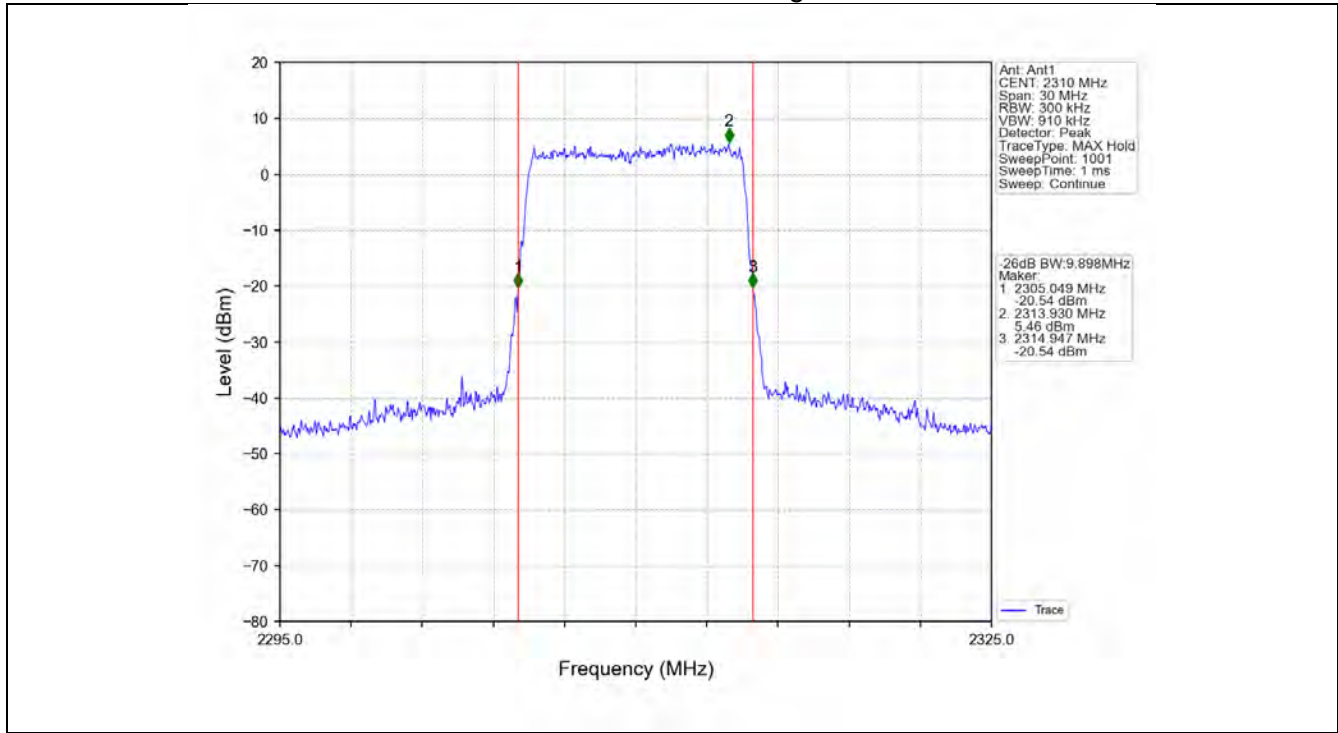
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4. Peak-Average Ratio

4.1 B30_5MHz

4.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	25	0	6.07	<=13	Pass
	2310	25	0	6.02	<=13	Pass
	2312.5	25	0	6.06	<=13	Pass
16QAM	2307.5	25	0	6.69	<=13	Pass
	2310	25	0	6.70	<=13	Pass
	2312.5	25	0	6.67	<=13	Pass
64QAM	2307.5	25	0	6.79	<=13	Pass
	2310	25	0	6.80	<=13	Pass
	2312.5	25	0	6.77	<=13	Pass

4.2 B30_10MHz

4.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	5.99	<=13	Pass
16QAM	2310	50	0	6.64	<=13	Pass
64QAM	2310	50	0	6.75	<=13	Pass



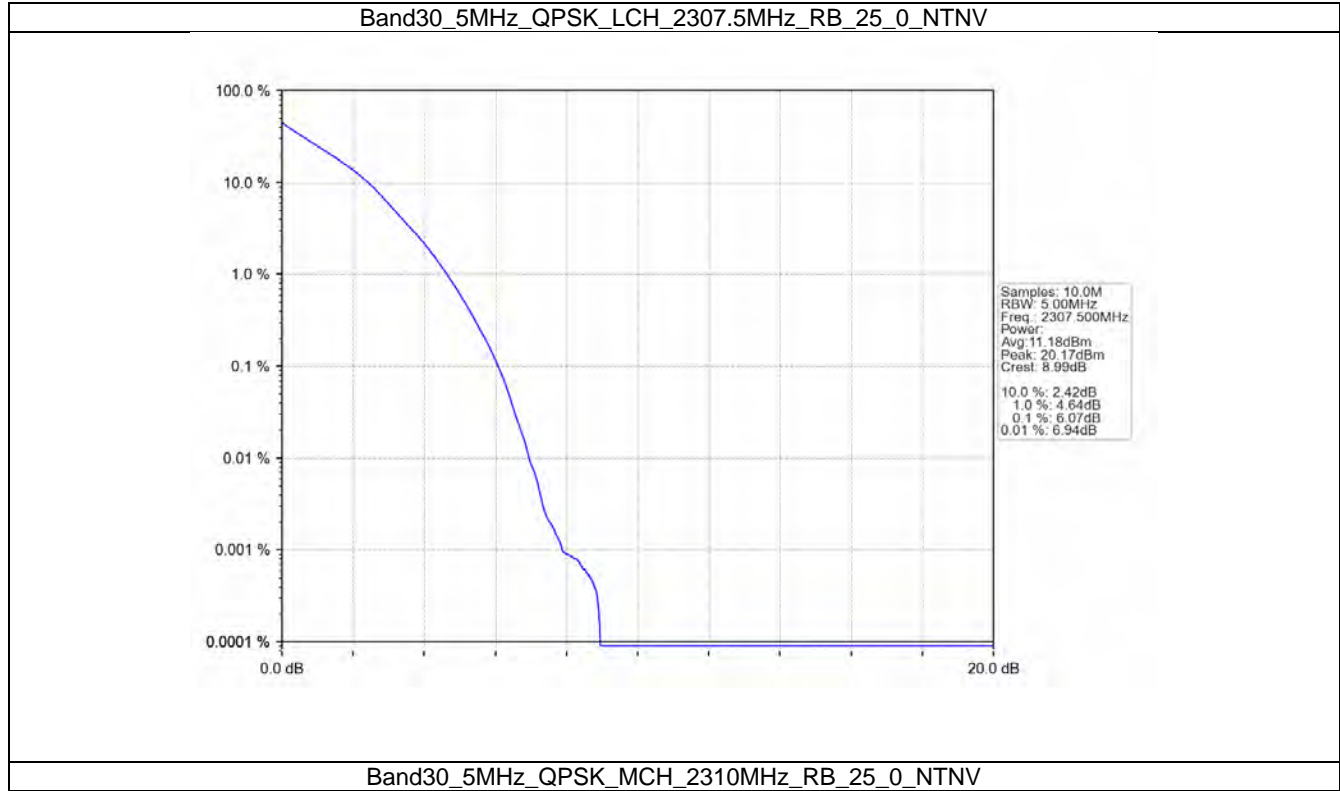
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4.1 B30_5MHz

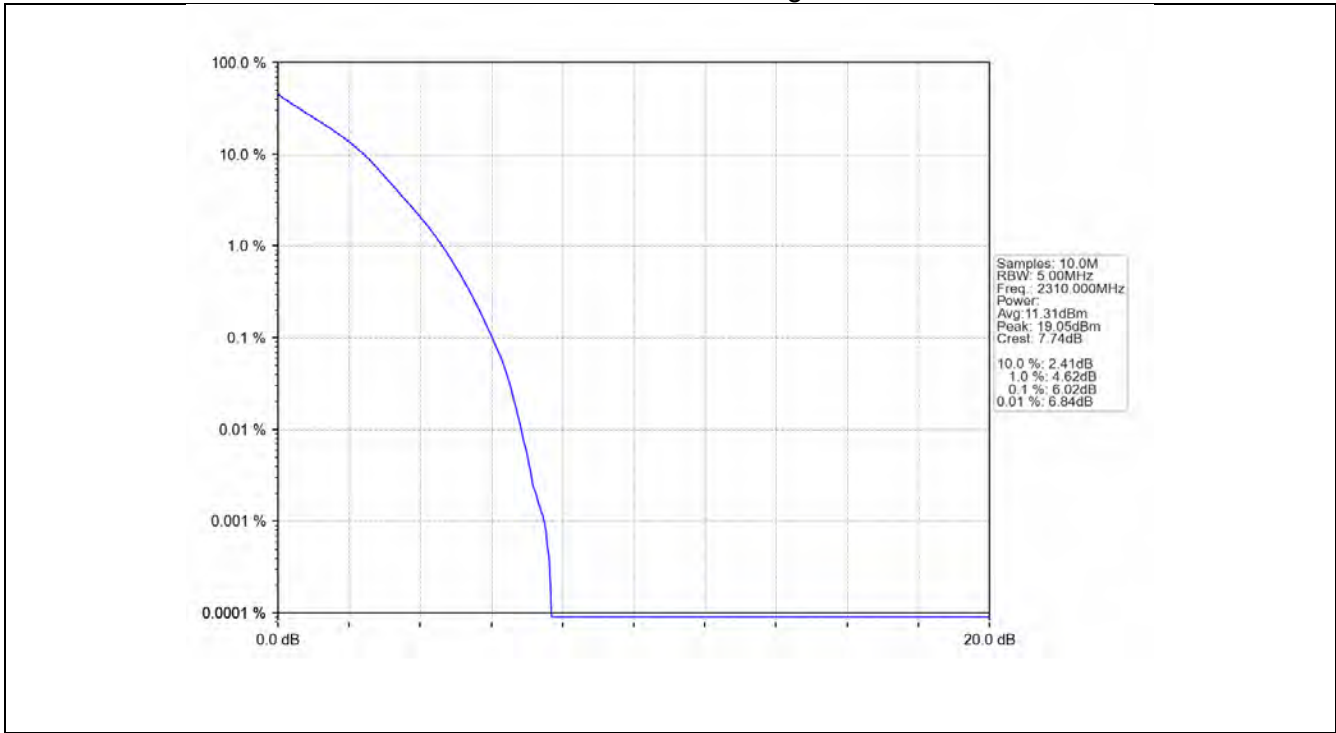
4.1.2 Test Graph



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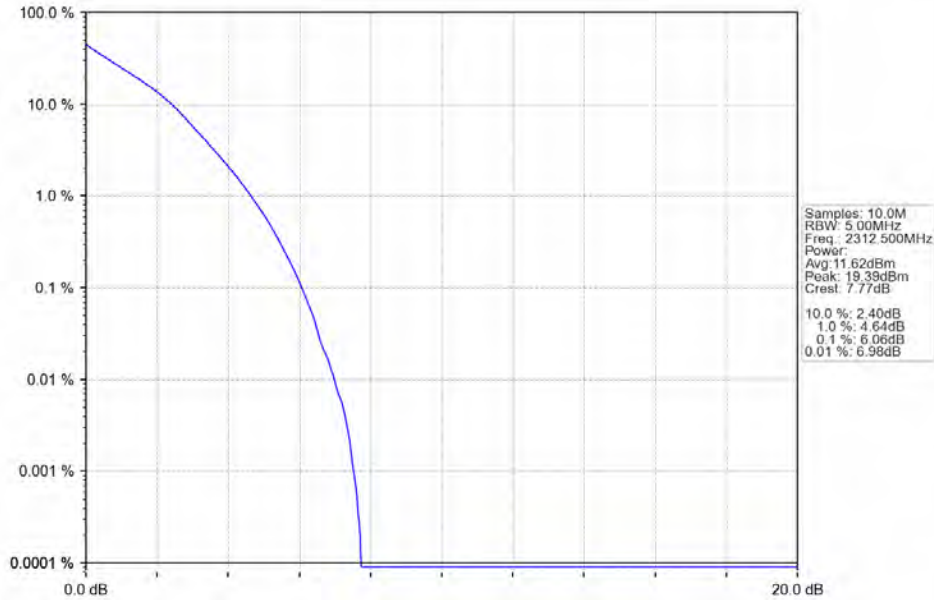


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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



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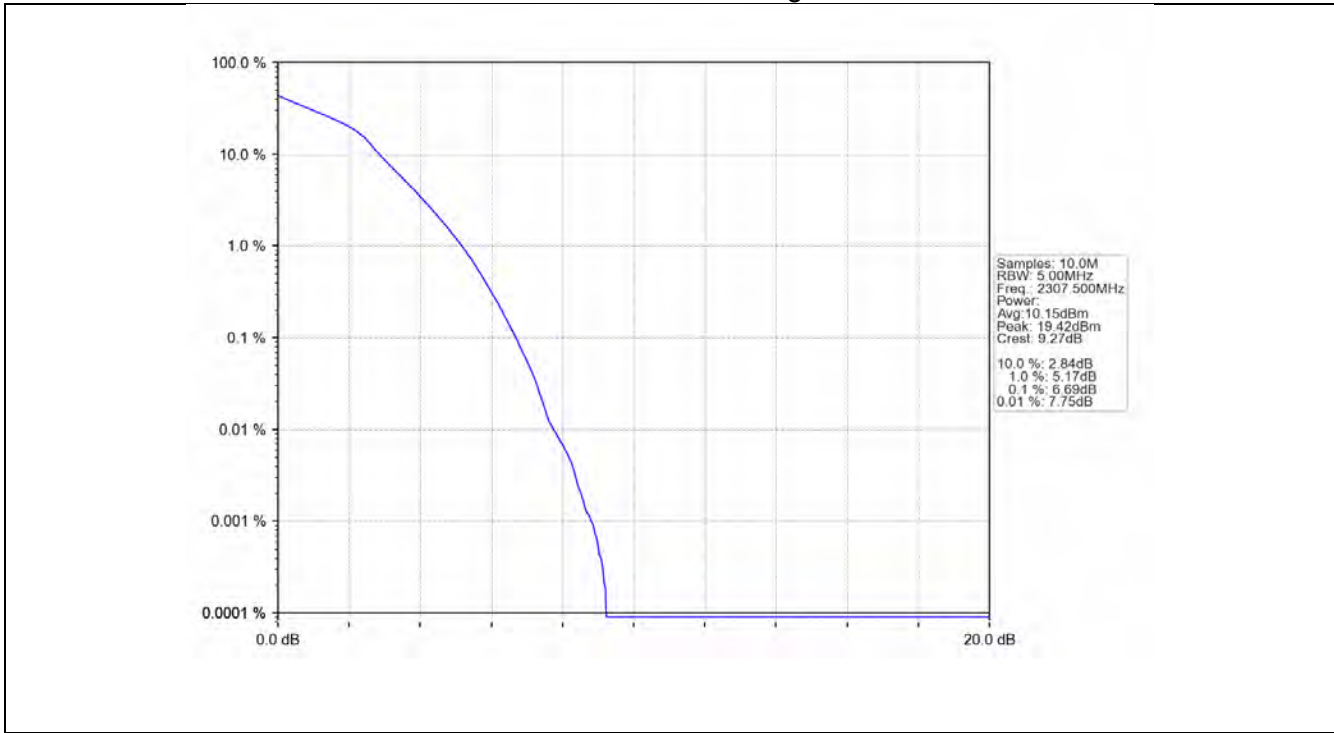
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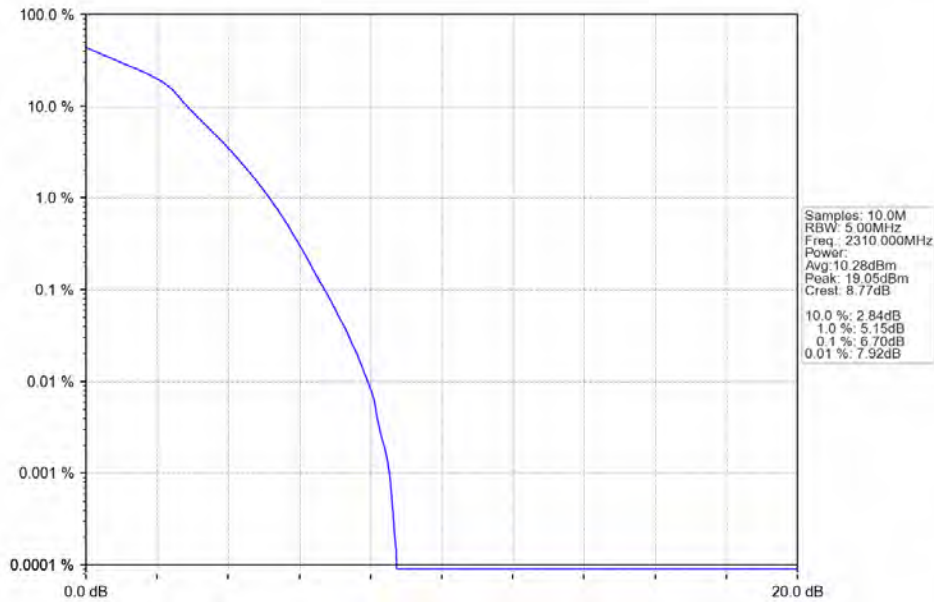
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Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



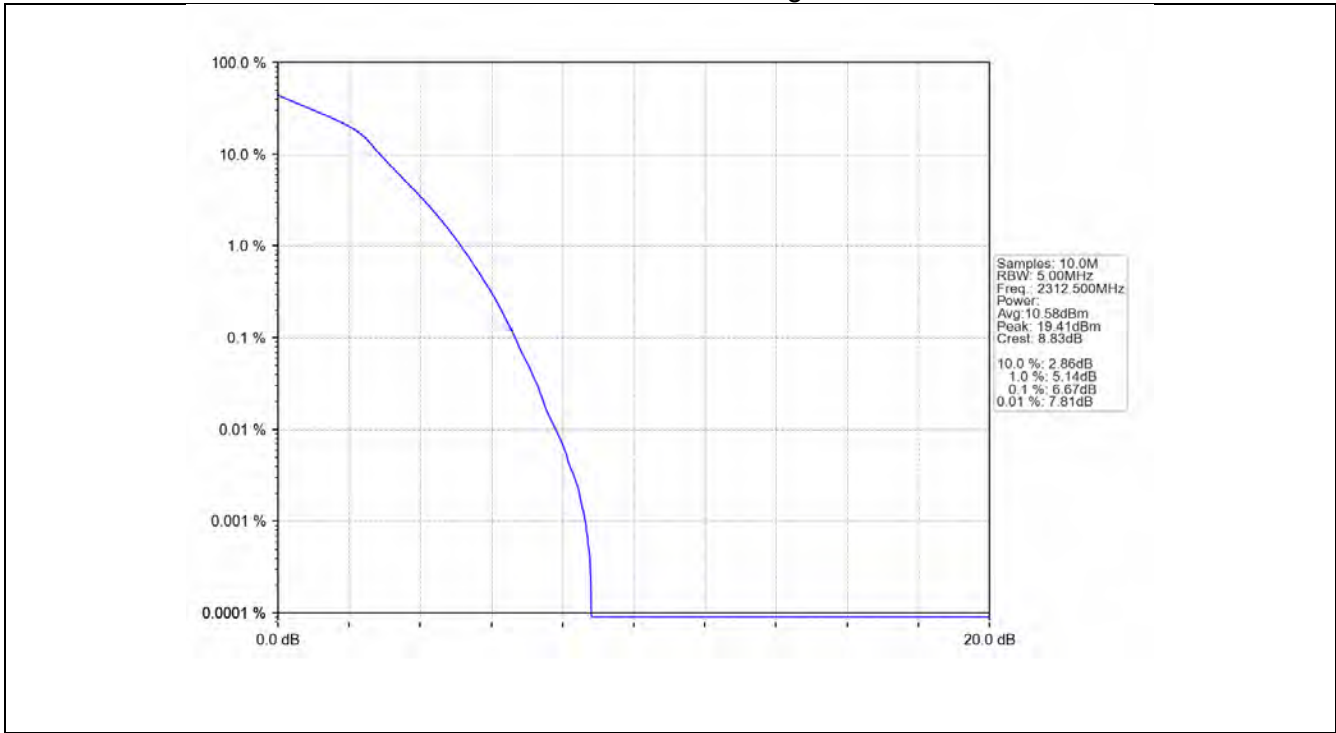
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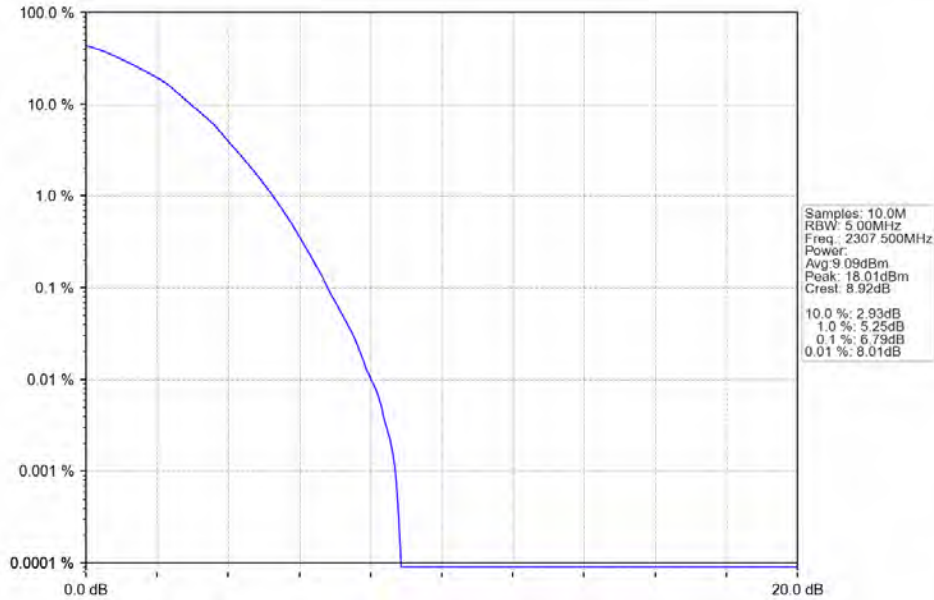


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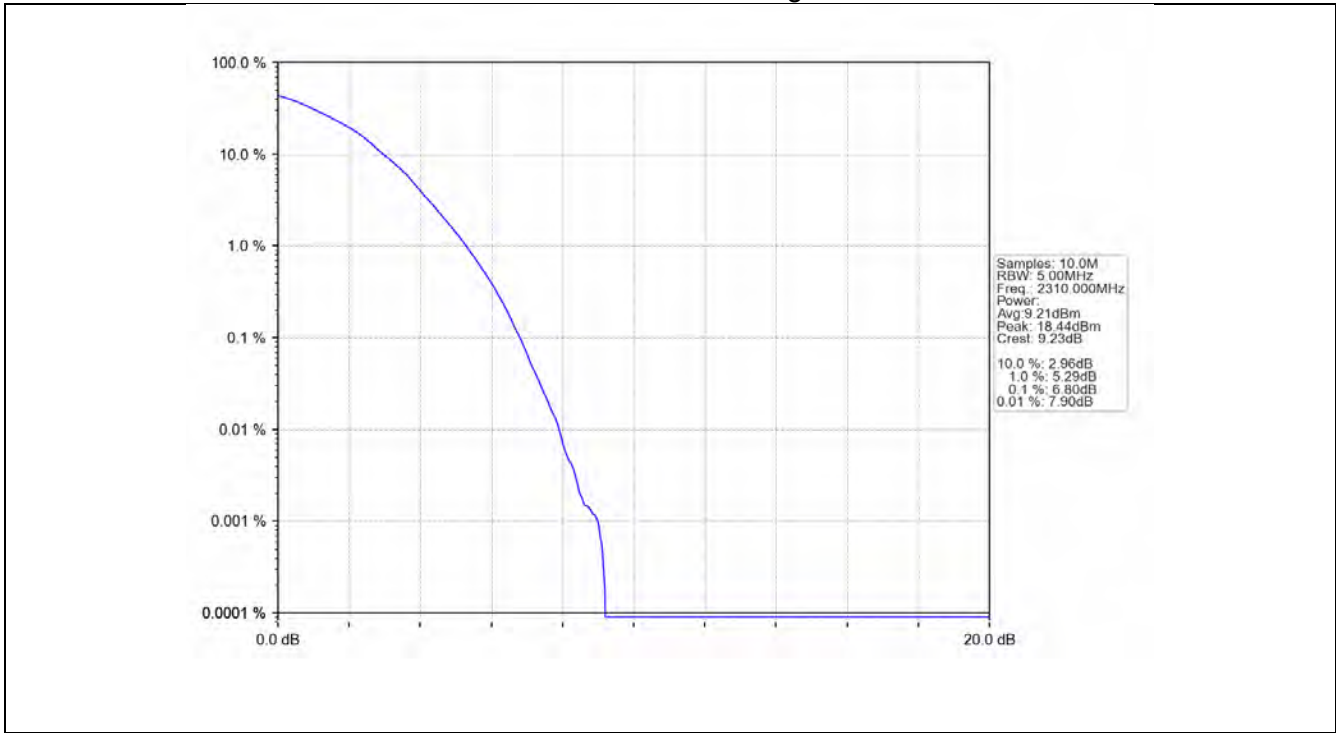
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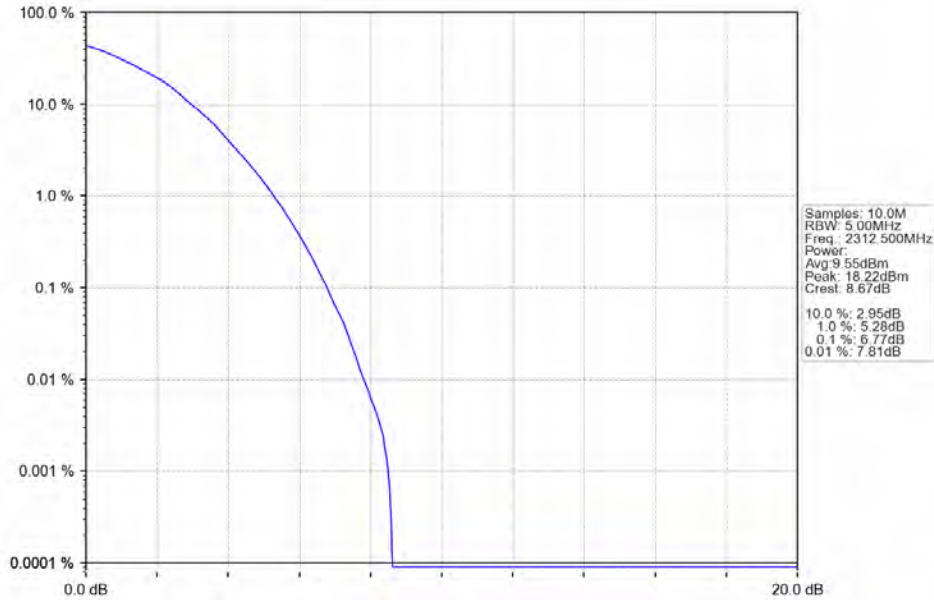


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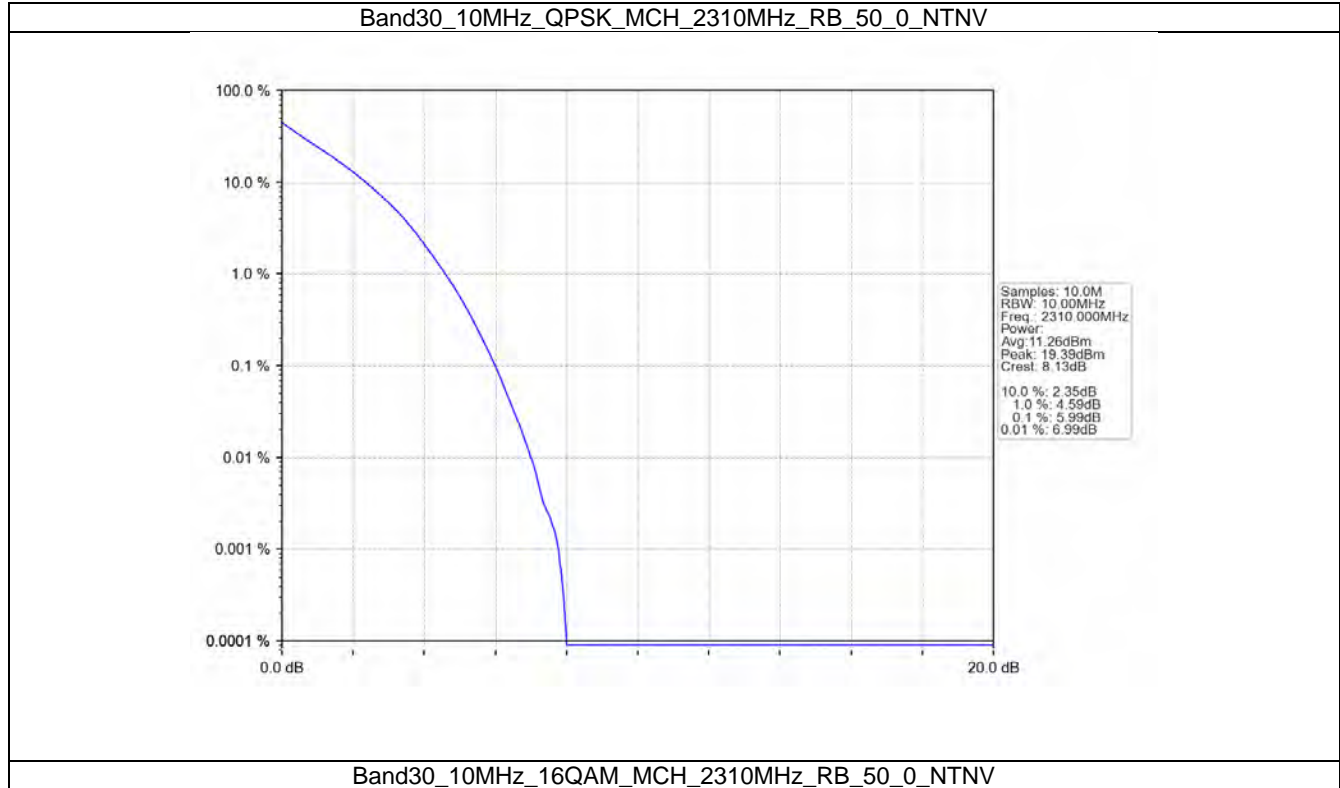
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4.2 B30_10MHz

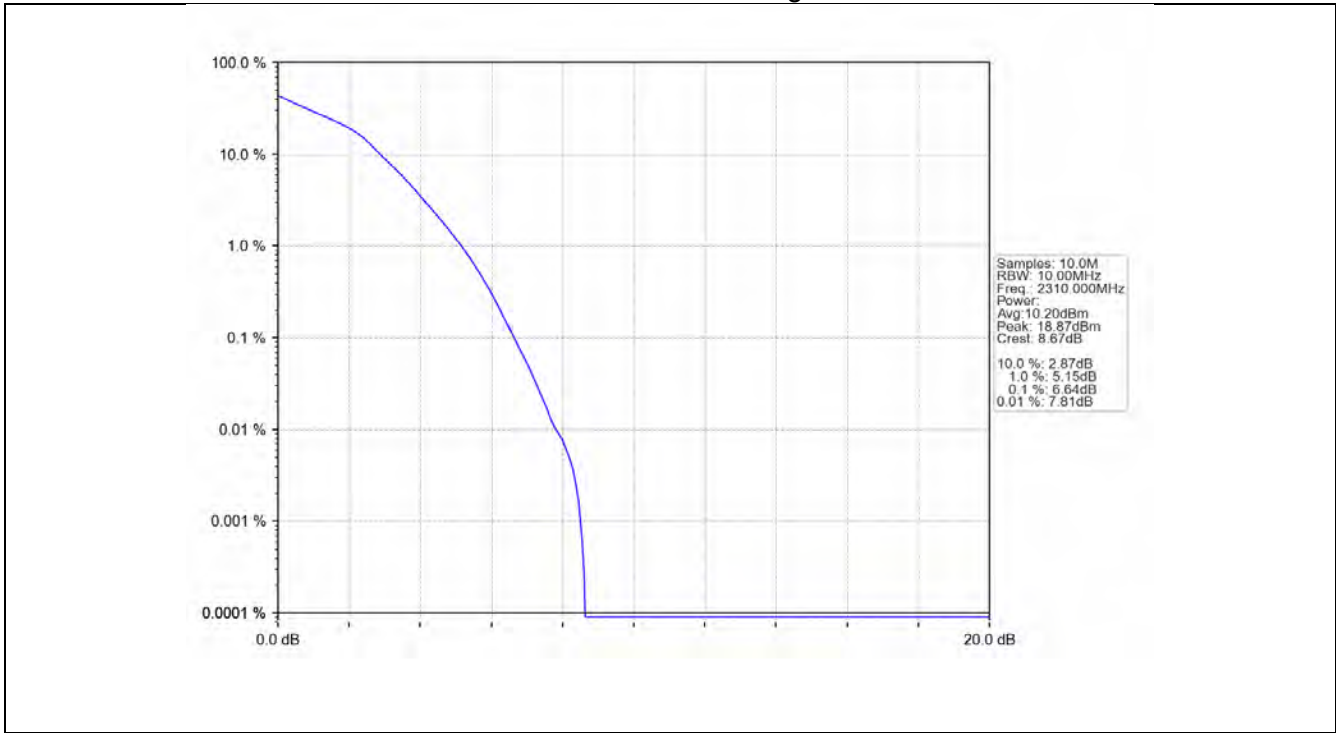
4.2.2 Test Graph



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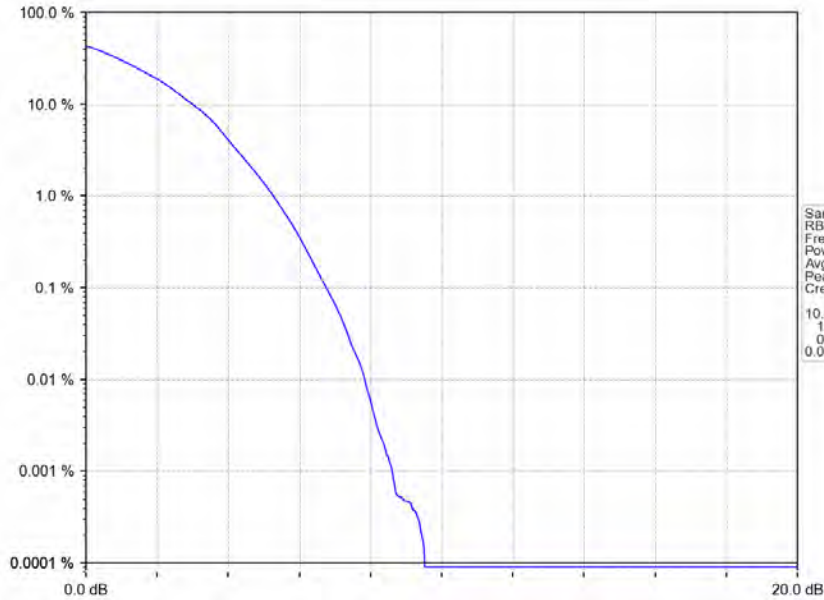


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Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



Samples: 10.0M
 RBW: 10.00MHz
 Freq.: 2310.000MHz
 Power:
 Avg: 9.18dBm
 Peak: 18.75dBm
 Crest: 9.57dB
 10.0 %: 2.99dB
 1.0 %: 5.27dB
 0.1 %: 6.75dB
 0.01 %: 7.84dB



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Report No.: SUCR240200003402
Rev.: 01
Page: 113 of 130

5. Spurious Emission & Band Edges

5.1 B30_5MHz

5.1.1 Test Result

Table with 6 columns: Modulation, Frequency (MHz), RB Allocation (Size, Offset), Spurious Emission (Result, Limit), and Verdict. Data for QPSK at 2307.5 and 2310 MHz, and 2312.5 MHz.

5.2 B30_10MHz

5.2.1 Test Result

Table with 6 columns: Modulation, Frequency (MHz), RB Allocation (Size, Offset), Spurious Emission (Result, Limit), and Verdict. Data for QPSK at 2310 MHz.

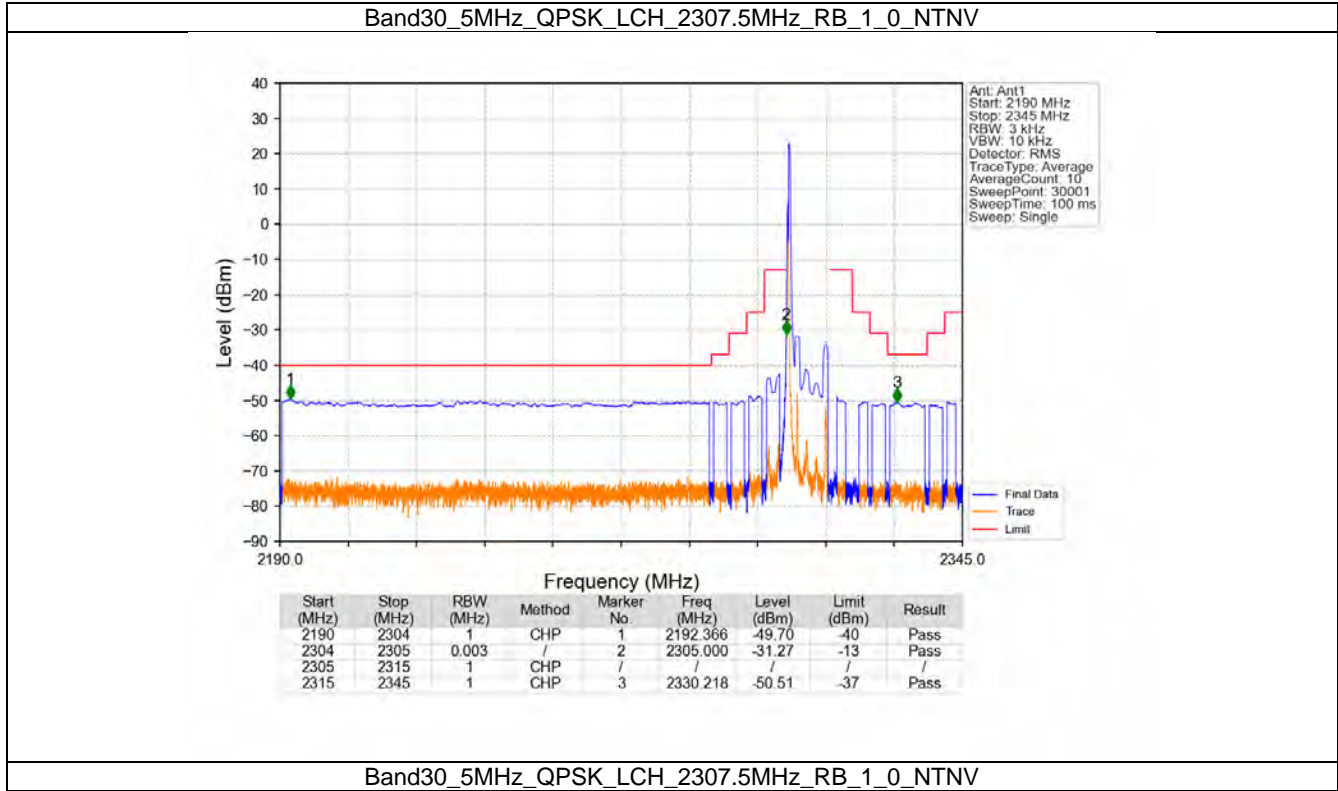


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5.1 B30_5MHz

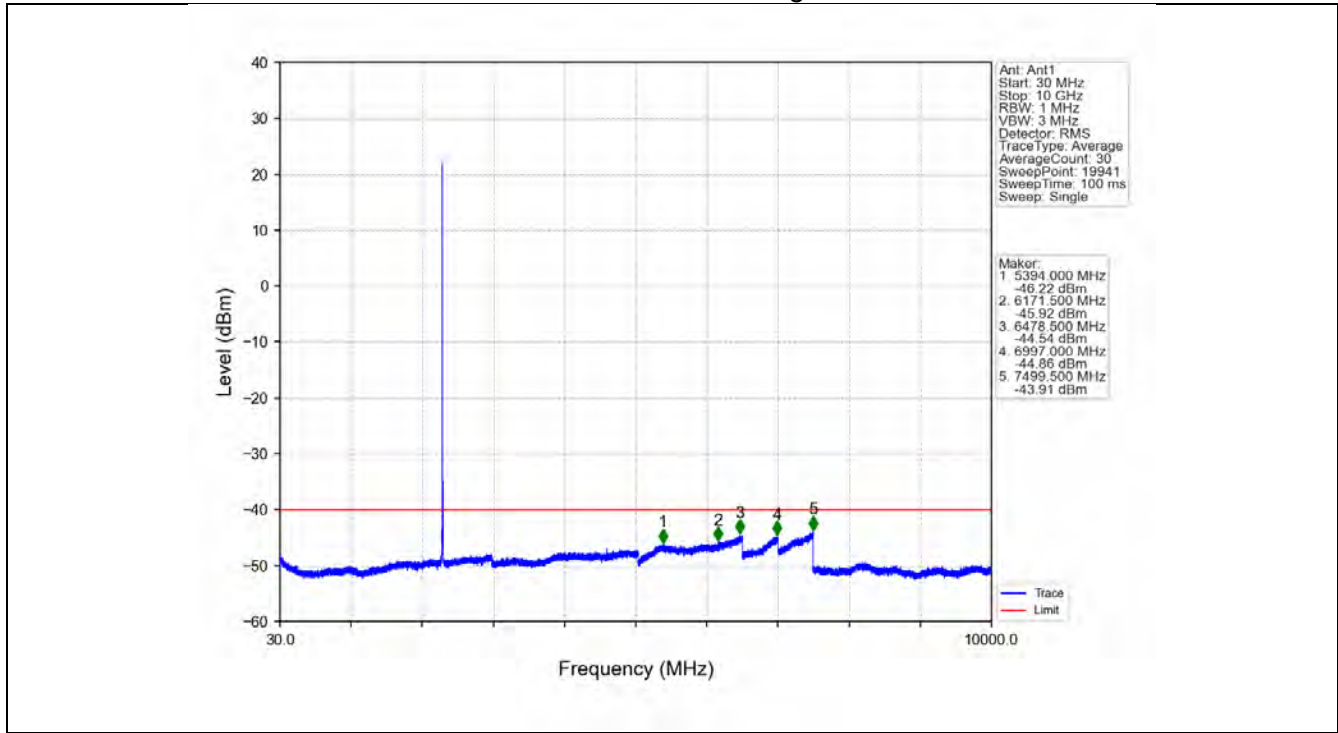
5.1.2 Test Graph



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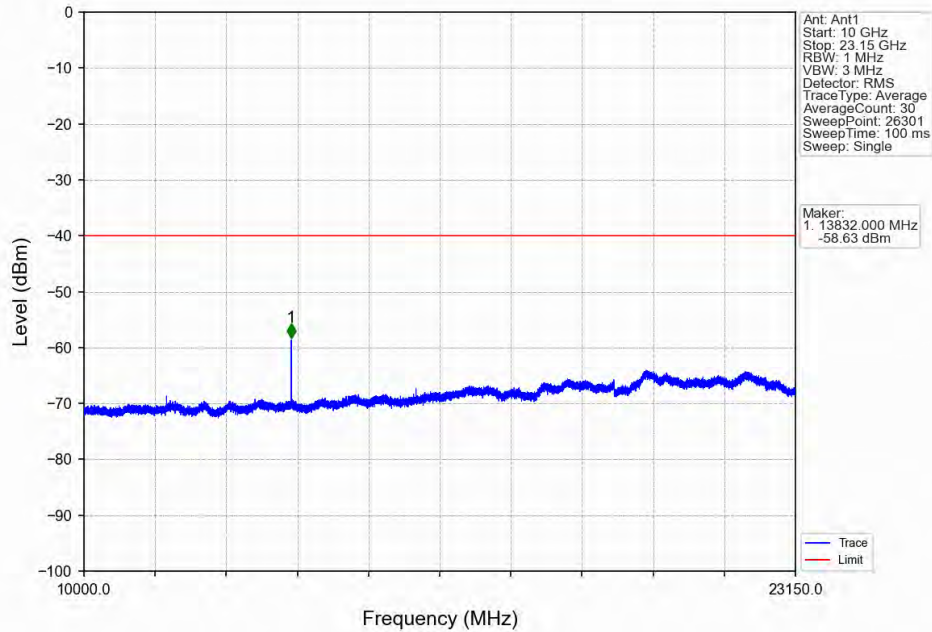
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Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_0_NTNV



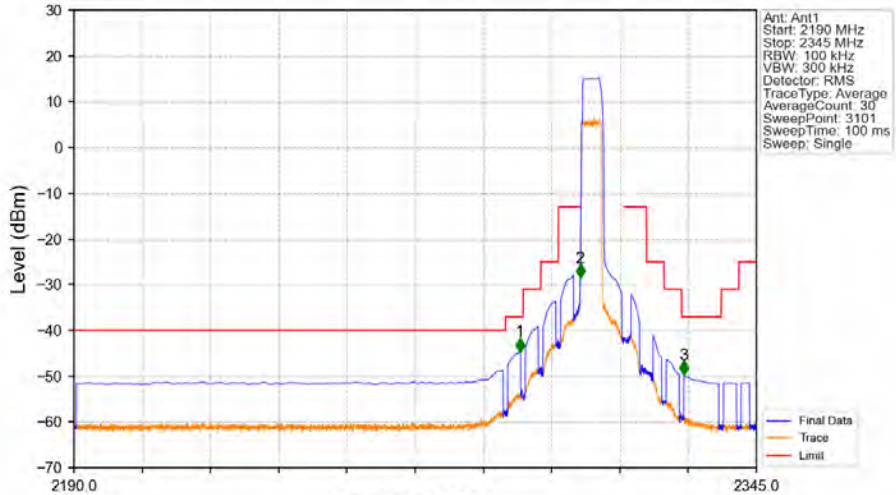
Band30_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV



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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2291.300	-44.69	-37	Pass
2304	2305	0.1	/	2	2305.000	-28.50	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2345	1	CHP	3	2328.550	-49.77	-37	Pass

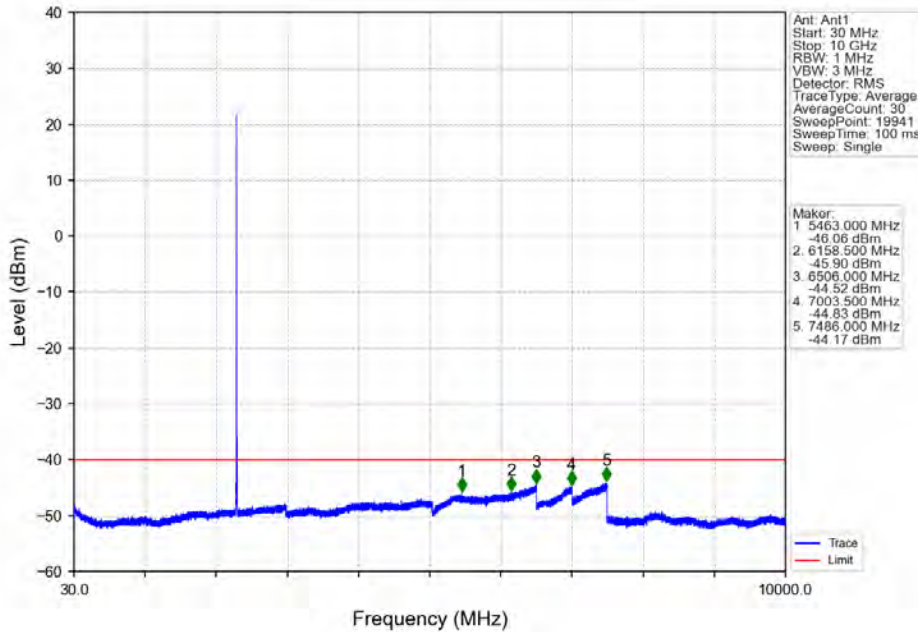


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Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



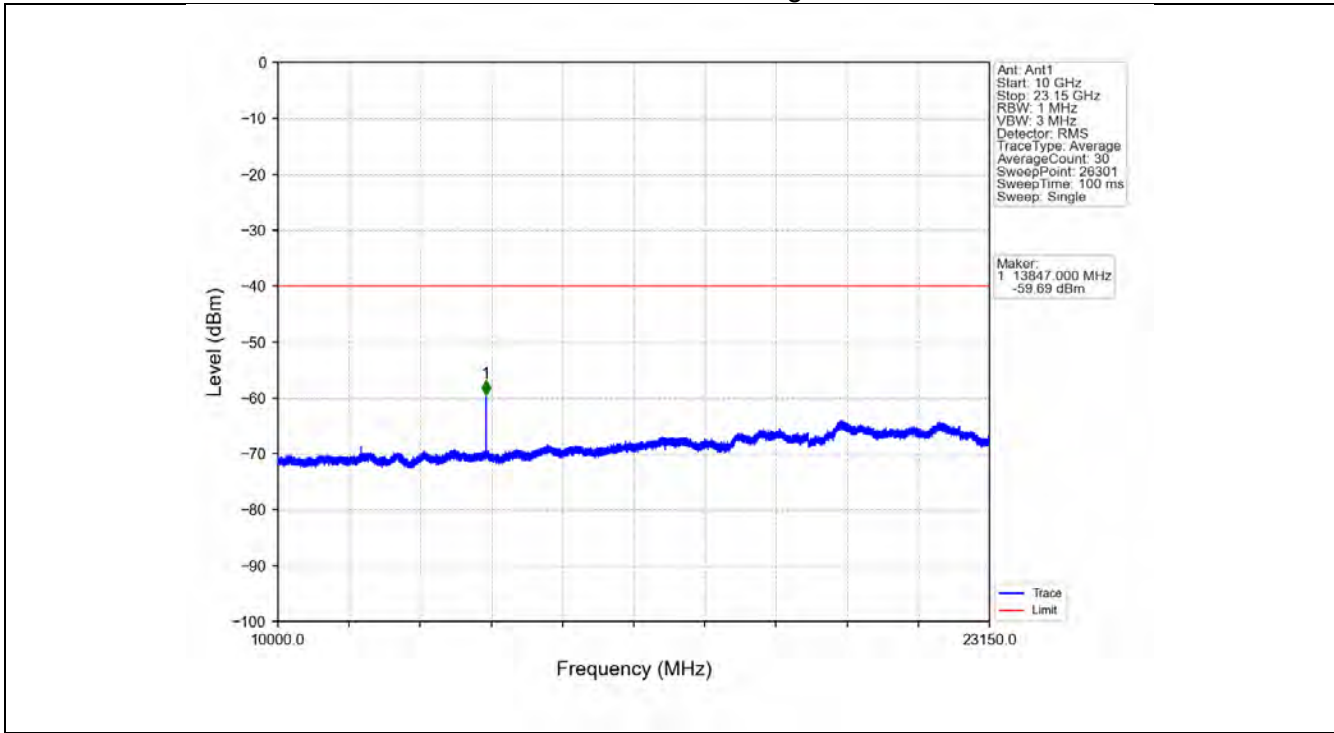
Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



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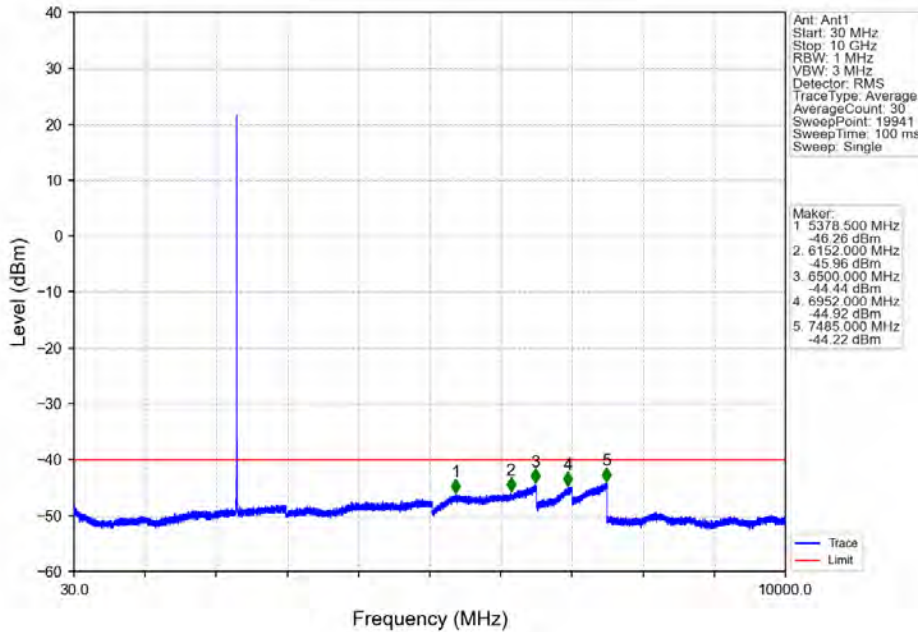


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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



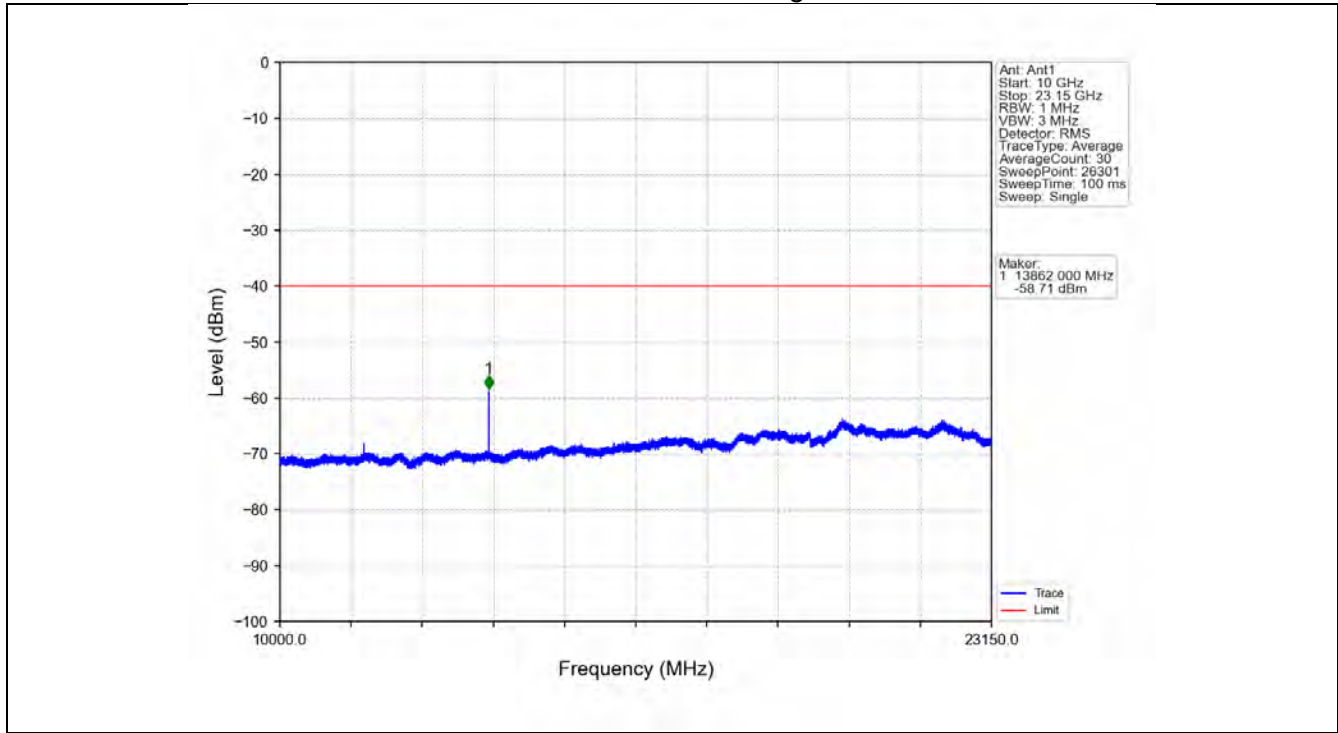
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



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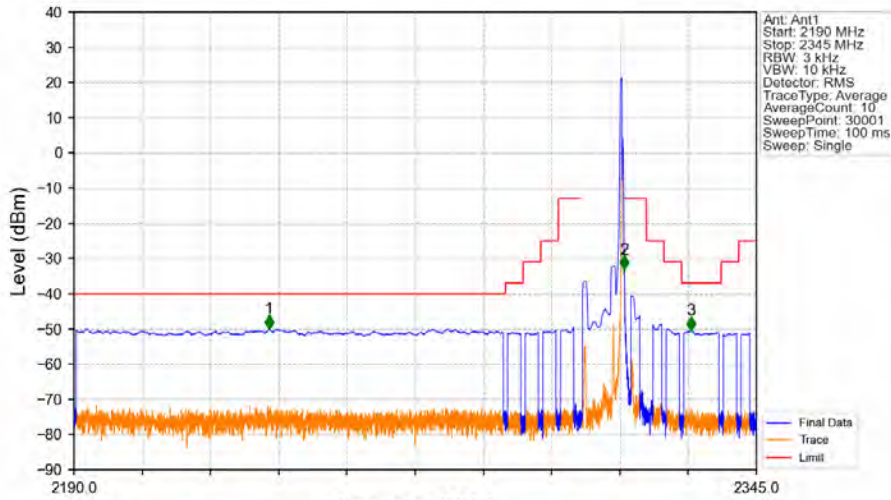


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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2234.289	-50.01	-40	Pass
2305	2315	1	CHP	2	2315.023	-33.07	-13	Pass
2315	2316	0.003	/	/	/	/	/	/
2316	2345	1	CHP	3	2330.208	-50.46	-37	Pass

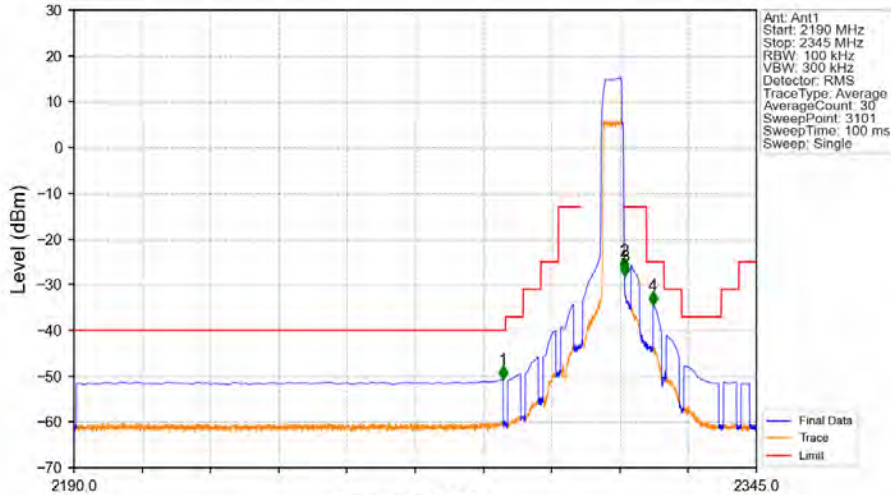
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2287.450	-50.77	-40	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	2	2315.000	-27.07	-13	Pass
2315	2316	0.1	/	3	2315.050	-28.24	-13	Pass
2316	2345	1	CHP	4	2321.550	-34.58	-25	Pass

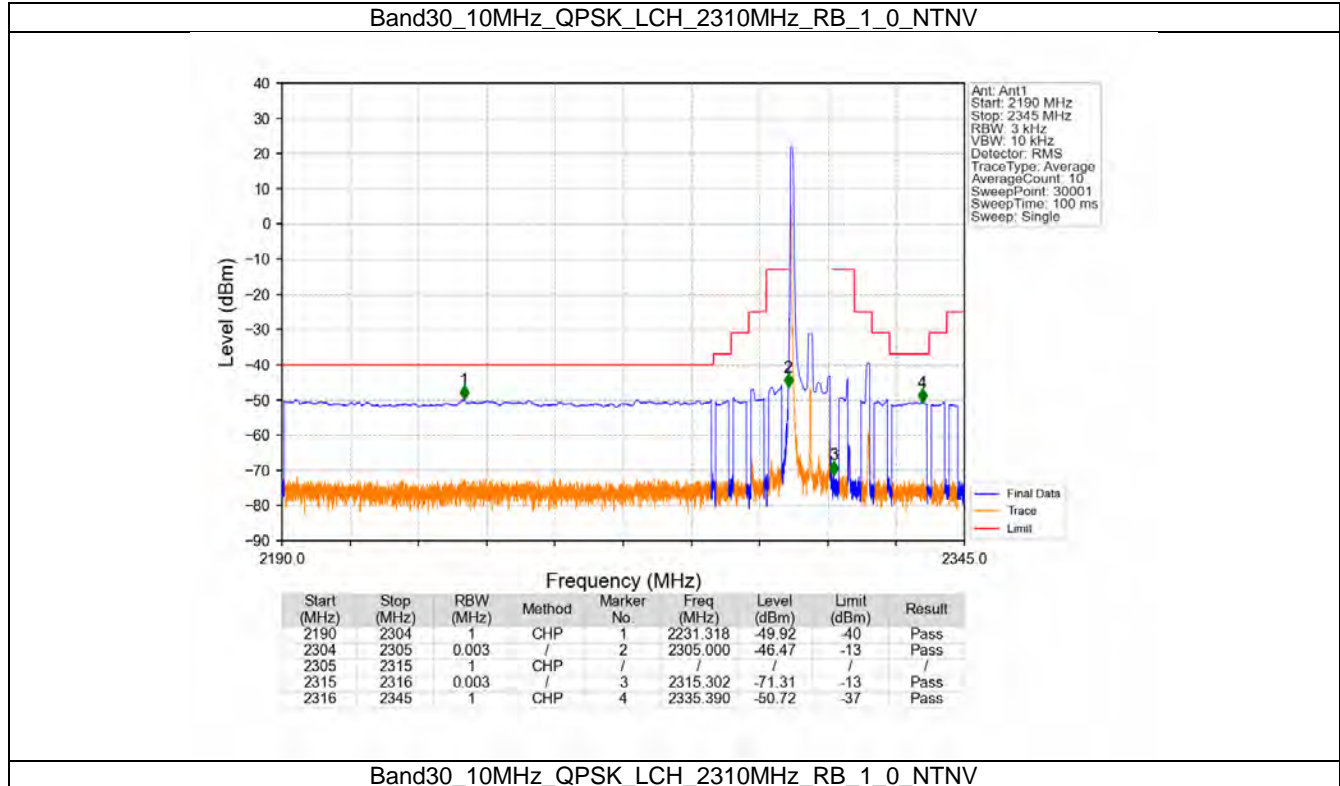


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5.2 B30_10MHz

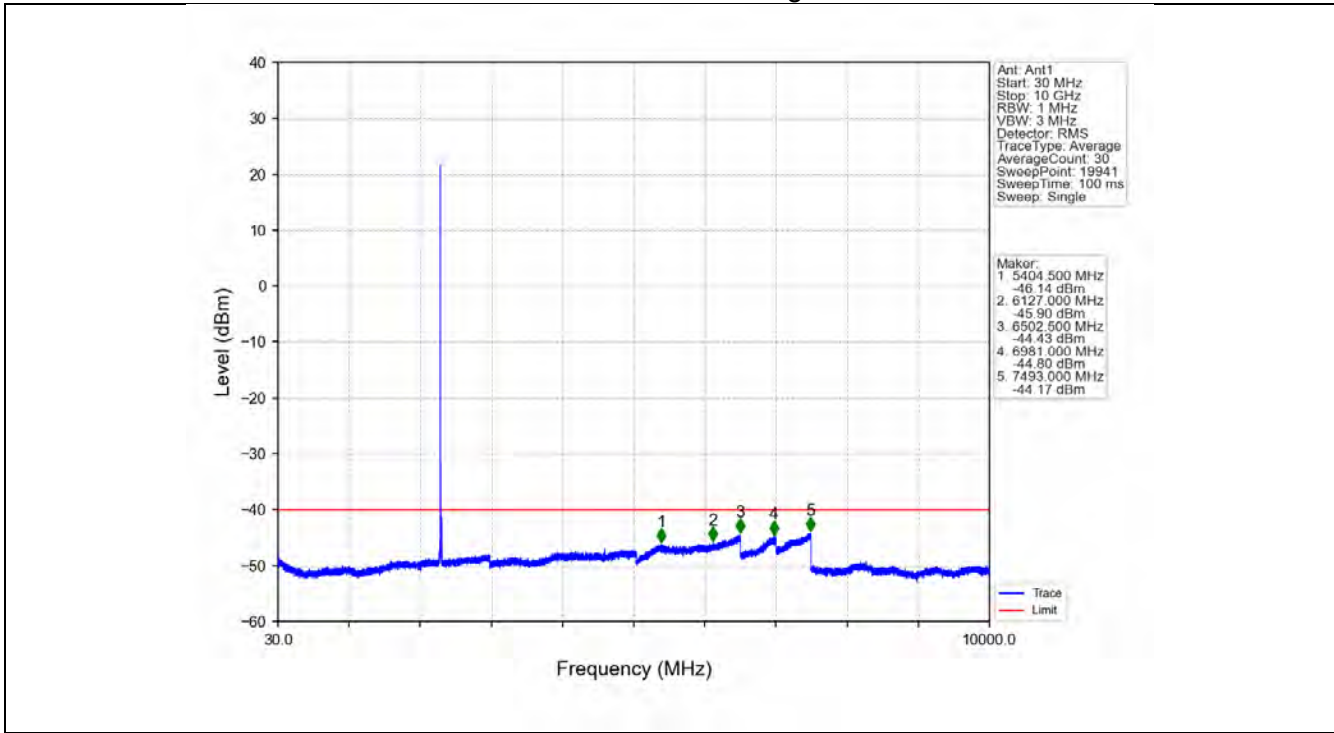
5.2.2 Test Graph



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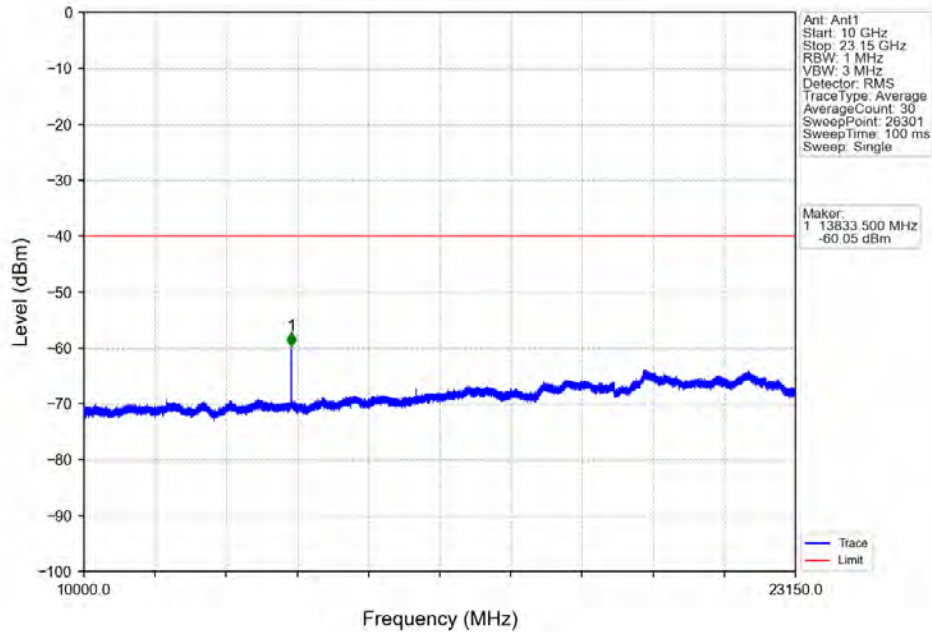


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Band30_10MHz_QPSK_LCH_2310MHz_RB_1_0_NTNV



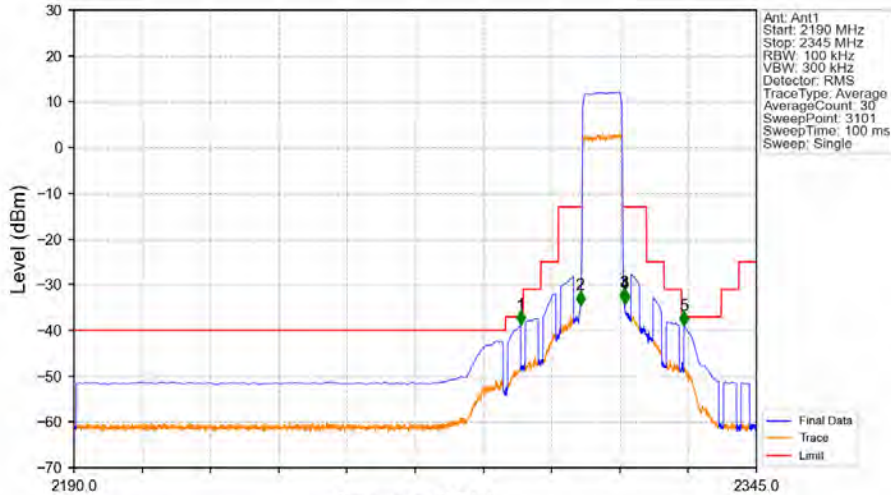
Band30_10MHz_QPSK_LCH_2310MHz_RB_50_0_NTNV



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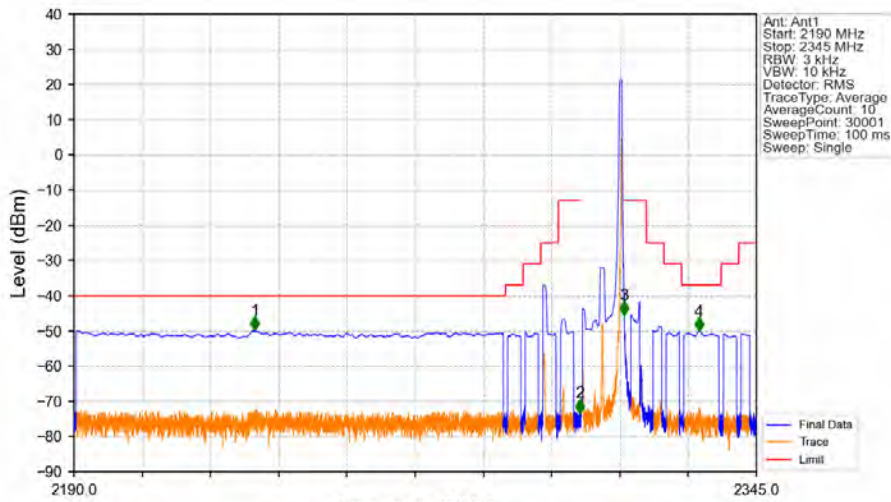
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2291.450	-38.84	-37	Pass
2304	2305	0.1	/	2	2305.000	-34.46	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-33.84	-13	Pass
2315	2316	0.1	/	4	2315.100	-34.16	-13	Pass
2316	2345	1	CHP	5	2328.550	-38.98	-37	Pass



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Band30_10MHz_QPSK_HCH_2310MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2231.054	-49.96	-40	Pass
2304	2305	0.003	/	2	2304.901	-73.39	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.002	-45.60	-13	Pass
2316	2345	1	CHP	4	2331.965	-50.13	-37	Pass

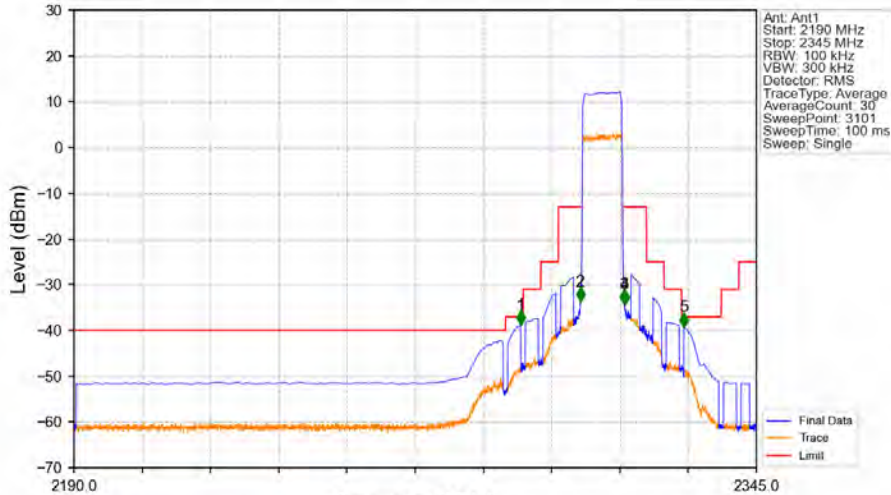
Band30_10MHz_QPSK_HCH_2310MHz_RB_50_0_NTNV



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6. Field Strength of Spurious Radiation

Test Band = LTE_30-10MHz
 Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611.5	56.15	-48.09	32.08	-55.12	-40.00	15.12	Horizontal
2	6917.5	55.83	-44.75	36.27	-47.91	-40.00	7.91	Horizontal
3	9024.5	50.17	-41.76	38.75	-48.10	-40.00	8.10	Horizontal
4	12276.5	48.30	-37.91	39.65	-45.22	-40.00	5.22	Horizontal
5	14273.5	48.33	-39.73	40.73	-45.93	-40.00	5.93	Horizontal
6	17903	49.12	-42.98	42.22	-46.90	-40.00	6.90	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611	54.89	-48.09	32.08	-56.38	-40.00	16.38	Vertical
2	6916.5	53.98	-44.76	36.27	-49.77	-40.00	9.77	Vertical
3	9029	50.10	-41.78	38.74	-48.20	-40.00	8.20	Vertical
4	12239	48.18	-37.96	39.58	-45.46	-40.00	5.46	Vertical
5	14233	48.18	-39.77	40.77	-46.08	-40.00	6.08	Vertical
6	17974.5	49.83	-43.57	42.65	-46.35	-40.00	6.35	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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