

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	23.08	0.30	23.38	<=23.98	Pass
			13	23.09	0.30	23.39	<=23.98	Pass
			24	23.05	0.30	23.35	<=23.98	Pass
		12	0	22.06	0.30	22.36	<=23.98	Pass
			6	22.00	0.30	22.30	<=23.98	Pass
			13	21.95	0.30	22.25	<=23.98	Pass
		25	0	21.97	0.30	22.27	<=23.98	Pass
	2310	1	0	23.22	0.30	23.52	<=23.98	Pass
			13	23.29	0.30	23.59	<=23.98	Pass
			24	23.16	0.30	23.46	<=23.98	Pass
		12	0	22.21	0.30	22.51	<=23.98	Pass
			6	22.17	0.30	22.47	<=23.98	Pass
			13	22.12	0.30	22.42	<=23.98	Pass
		25	0	22.14	0.30	22.44	<=23.98	Pass
	2312.5	1	0	23.21	0.30	23.51	<=23.98	Pass
			13	23.22	0.30	23.52	<=23.98	Pass
			24	23.12	0.30	23.42	<=23.98	Pass
		12	0	22.19	0.30	22.49	<=23.98	Pass
			6	22.21	0.30	22.51	<=23.98	Pass
			13	22.07	0.30	22.37	<=23.98	Pass
		25	0	22.18	0.30	22.48	<=23.98	Pass
16QAM	2307.5	1	0	22.30	0.30	22.60	<=23.98	Pass
			13	22.26	0.30	22.56	<=23.98	Pass
			24	22.27	0.30	22.57	<=23.98	Pass
		12	0	21.12	0.30	21.42	<=23.98	Pass
			6	21.07	0.30	21.37	<=23.98	Pass
			13	20.96	0.30	21.26	<=23.98	Pass
		25	0	20.97	0.30	21.27	<=23.98	Pass
	2310	1	0	22.39	0.30	22.69	<=23.98	Pass
			13	22.42	0.30	22.72	<=23.98	Pass
			24	22.39	0.30	22.69	<=23.98	Pass
		12	0	21.23	0.30	21.53	<=23.98	Pass
			6	21.20	0.30	21.50	<=23.98	Pass
			13	21.15	0.30	21.45	<=23.98	Pass
		25	0	21.13	0.30	21.43	<=23.98	Pass
	2312.5	1	0	22.37	0.30	22.67	<=23.98	Pass
			13	22.24	0.30	22.54	<=23.98	Pass
			24	22.18	0.30	22.48	<=23.98	Pass
		12	0	21.16	0.30	21.46	<=23.98	Pass
			6	21.12	0.30	21.42	<=23.98	Pass
			13	21.14	0.30	21.44	<=23.98	Pass
		25	0	21.19	0.30	21.49	<=23.98	Pass
64QAM	2307.5	1	0	21.03	0.30	21.33	<=23.98	Pass
			13	21.01	0.30	21.31	<=23.98	Pass
			24	20.93	0.30	21.23	<=23.98	Pass
		12	0	20.07	0.30	20.37	<=23.98	Pass

		25	6	20.01	0.30	20.31	<=23.98	Pass	
			13	19.97	0.30	20.27	<=23.98	Pass	
			0	19.95	0.30	20.25	<=23.98	Pass	
	2310	1	0	21.27	0.30	21.57	<=23.98	Pass	
			13	21.39	0.30	21.69	<=23.98	Pass	
			24	21.18	0.30	21.48	<=23.98	Pass	
		12	0	20.25	0.30	20.55	<=23.98	Pass	
			6	20.18	0.30	20.48	<=23.98	Pass	
			13	20.13	0.30	20.43	<=23.98	Pass	
		25	0	20.16	0.30	20.46	<=23.98	Pass	
		2312.5	1	0	21.40	0.30	21.70	<=23.98	Pass
				13	21.28	0.30	21.58	<=23.98	Pass
	24			21.25	0.30	21.55	<=23.98	Pass	
	12		0	20.19	0.30	20.49	<=23.98	Pass	
			6	20.20	0.30	20.50	<=23.98	Pass	
			13	20.08	0.30	20.38	<=23.98	Pass	
	25		0	20.16	0.30	20.46	<=23.98	Pass	
256QAM	2307.5	1	0	18.29	0.30	18.59	<=23.98	Pass	
			13	18.39	0.30	18.69	<=23.98	Pass	
			24	18.22	0.30	18.52	<=23.98	Pass	
		12	0	18.31	0.30	18.61	<=23.98	Pass	
			6	18.27	0.30	18.57	<=23.98	Pass	
			13	18.19	0.30	18.49	<=23.98	Pass	
		25	0	18.18	0.30	18.48	<=23.98	Pass	
	2310	1	0	18.43	0.30	18.73	<=23.98	Pass	
			13	18.32	0.30	18.62	<=23.98	Pass	
			24	18.17	0.30	18.47	<=23.98	Pass	
		12	0	18.26	0.30	18.56	<=23.98	Pass	
			6	18.19	0.30	18.49	<=23.98	Pass	
			13	18.13	0.30	18.43	<=23.98	Pass	
		25	0	18.15	0.30	18.45	<=23.98	Pass	
	2312.5	1	0	18.23	0.30	18.53	<=23.98	Pass	
			13	18.23	0.30	18.53	<=23.98	Pass	
			24	18.09	0.30	18.39	<=23.98	Pass	
		12	0	18.19	0.30	18.49	<=23.98	Pass	
			6	18.22	0.30	18.52	<=23.98	Pass	
			13	18.08	0.30	18.38	<=23.98	Pass	
		25	0	18.17	0.30	18.47	<=23.98	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

1.2 B30_5MHz_EIRP/5MHz

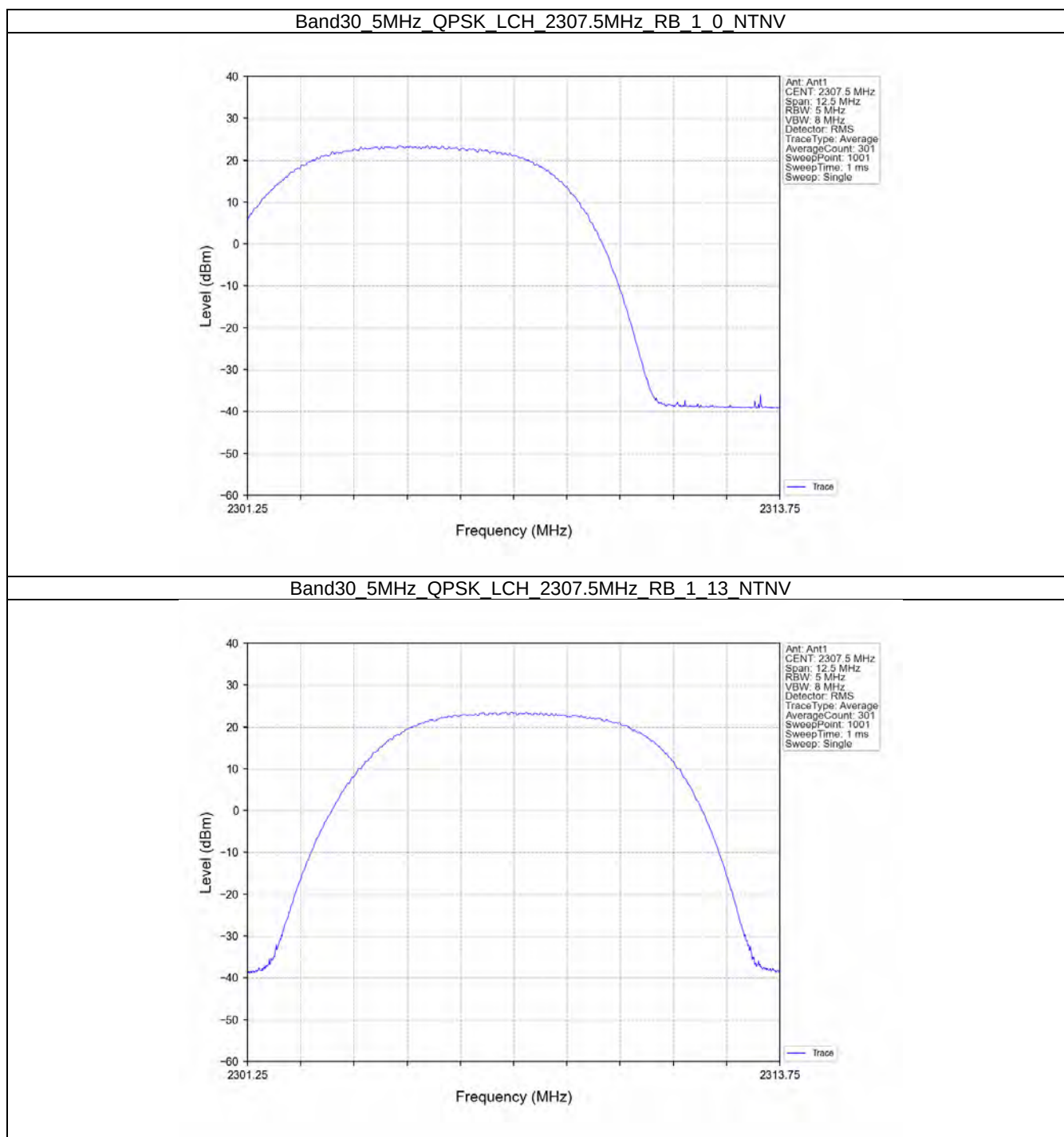
1.2.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/5MHz (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2307.5	1	0	23.45	0.30	23.75	<=23.98	Pass
			13	23.51	0.30	23.81	<=23.98	Pass
			24	23.44	0.30	23.74	<=23.98	Pass
		12	0	22.13	0.30	22.43	<=23.98	Pass
			6	22.08	0.30	22.38	<=23.98	Pass
			13	22.04	0.30	22.34	<=23.98	Pass
		25	0	21.55	0.30	21.85	<=23.98	Pass
	2310	1	0	23.37	0.30	23.67	<=23.98	Pass

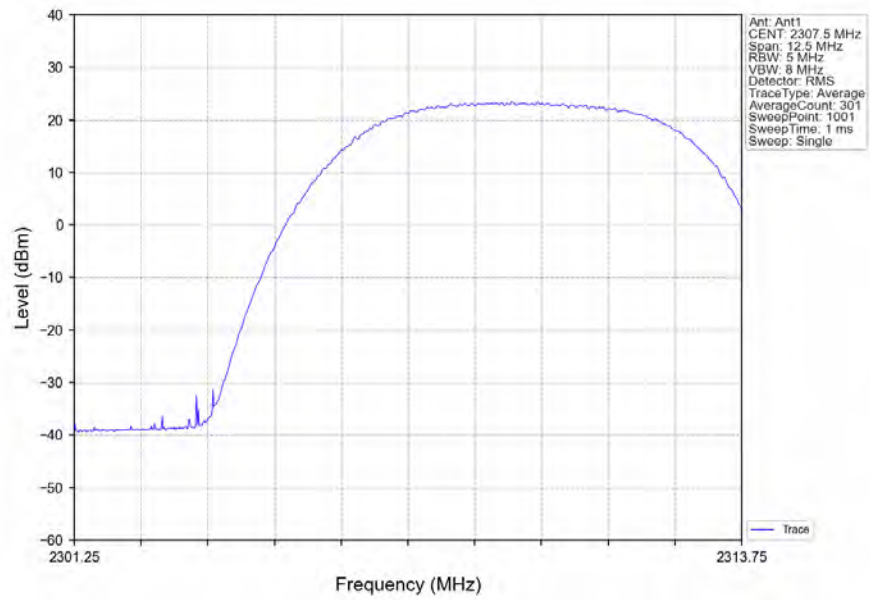
			13	23.39	0.30	23.69	<=23.98	Pass
			24	23.30	0.30	23.60	<=23.98	Pass
			0	22.08	0.30	22.38	<=23.98	Pass
		12	6	22.00	0.30	22.30	<=23.98	Pass
			13	22.04	0.30	22.34	<=23.98	Pass
		25	0	21.54	0.30	21.84	<=23.98	Pass
	2312.5	1	0	23.33	0.30	23.63	<=23.98	Pass
			13	23.33	0.30	23.63	<=23.98	Pass
			24	23.20	0.30	23.50	<=23.98	Pass
		12	0	22.04	0.30	22.34	<=23.98	Pass
			6	22.06	0.30	22.36	<=23.98	Pass
			13	21.95	0.30	22.25	<=23.98	Pass
		25	0	21.54	0.30	21.84	<=23.98	Pass
16QAM	2307.5	1	0	22.51	0.30	22.81	<=23.98	Pass
			13	22.70	0.30	23.00	<=23.98	Pass
			24	22.61	0.30	22.91	<=23.98	Pass
		12	0	21.23	0.30	21.53	<=23.98	Pass
			6	21.14	0.30	21.44	<=23.98	Pass
			13	21.23	0.30	21.53	<=23.98	Pass
		25	0	20.67	0.30	20.97	<=23.98	Pass
	2310	1	0	22.56	0.30	22.86	<=23.98	Pass
			13	22.66	0.30	22.96	<=23.98	Pass
			24	22.63	0.30	22.93	<=23.98	Pass
		12	0	21.11	0.30	21.41	<=23.98	Pass
			6	21.11	0.30	21.41	<=23.98	Pass
			13	21.04	0.30	21.34	<=23.98	Pass
		25	0	20.56	0.30	20.86	<=23.98	Pass
	2312.5	1	0	22.51	0.30	22.81	<=23.98	Pass
			13	22.55	0.30	22.85	<=23.98	Pass
			24	22.44	0.30	22.74	<=23.98	Pass
		12	0	21.13	0.30	21.43	<=23.98	Pass
			6	21.19	0.30	21.49	<=23.98	Pass
			13	21.04	0.30	21.34	<=23.98	Pass
		25	0	20.69	0.30	20.99	<=23.98	Pass
64QAM	2307.5	1	0	21.72	0.30	22.02	<=23.98	Pass
			13	21.98	0.30	22.28	<=23.98	Pass
			24	21.65	0.30	21.95	<=23.98	Pass
		12	0	20.24	0.30	20.54	<=23.98	Pass
			6	20.14	0.30	20.44	<=23.98	Pass
			13	20.13	0.30	20.43	<=23.98	Pass
		25	0	19.61	0.30	19.91	<=23.98	Pass
	2310	1	0	21.68	0.30	21.98	<=23.98	Pass
			13	21.70	0.30	22.00	<=23.98	Pass
			24	21.54	0.30	21.84	<=23.98	Pass
		12	0	20.23	0.30	20.53	<=23.98	Pass
			6	20.13	0.30	20.43	<=23.98	Pass
			13	20.00	0.30	20.30	<=23.98	Pass
		25	0	19.57	0.30	19.87	<=23.98	Pass
	2312.5	1	0	21.55	0.30	21.85	<=23.98	Pass
			13	21.53	0.30	21.83	<=23.98	Pass
			24	21.29	0.30	21.59	<=23.98	Pass
		12	0	20.24	0.30	20.54	<=23.98	Pass
			6	20.19	0.30	20.49	<=23.98	Pass
			13	20.02	0.30	20.32	<=23.98	Pass
		25	0	19.63	0.30	19.93	<=23.98	Pass
256QAM	2307.5	1	0	18.56	0.30	18.86	<=23.98	Pass
			13	18.51	0.30	18.81	<=23.98	Pass

		12	24	18.52	0.30	18.82	<=23.98	Pass
			0	18.23	0.30	18.53	<=23.98	Pass
			6	18.16	0.30	18.46	<=23.98	Pass
			13	18.13	0.30	18.43	<=23.98	Pass
		25	0	17.62	0.30	17.92	<=23.98	Pass
	2310	1	0	18.60	0.30	18.90	<=23.98	Pass
			13	18.71	0.30	19.01	<=23.98	Pass
			24	18.40	0.30	18.70	<=23.98	Pass
		12	0	18.18	0.30	18.48	<=23.98	Pass
			6	18.10	0.30	18.40	<=23.98	Pass
			13	18.08	0.30	18.38	<=23.98	Pass
		25	0	17.59	0.30	17.89	<=23.98	Pass
		2312.5	1	0	18.49	0.30	18.79	<=23.98
	13			18.55	0.30	18.85	<=23.98	Pass
	24			18.39	0.30	18.69	<=23.98	Pass
	12		0	18.12	0.30	18.42	<=23.98	Pass
			6	18.10	0.30	18.40	<=23.98	Pass
			13	18.08	0.30	18.38	<=23.98	Pass
	25		0	17.68	0.30	17.98	<=23.98	Pass
	Note1: EIRP/5MHz=Conducted Power+Antenna Gain-2.15							

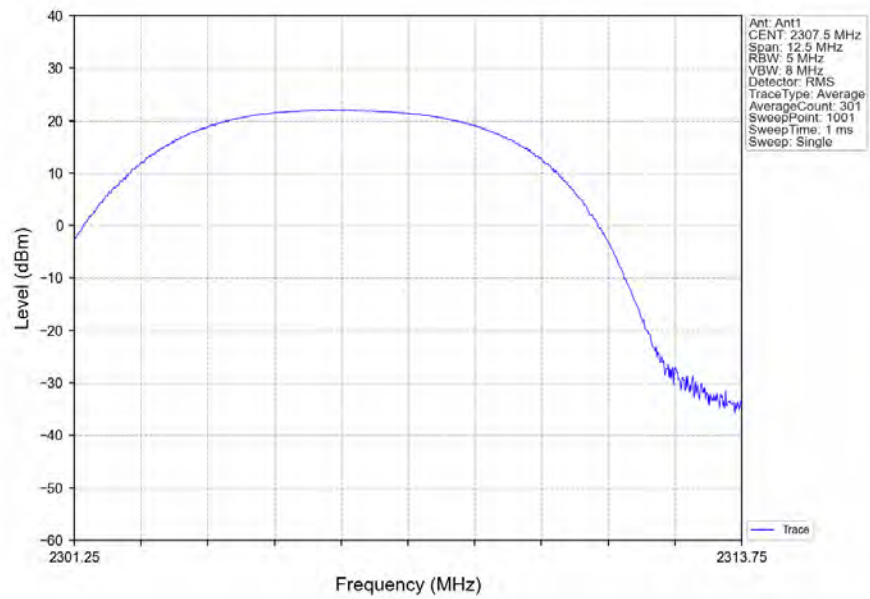
1.2.2 Test Graph



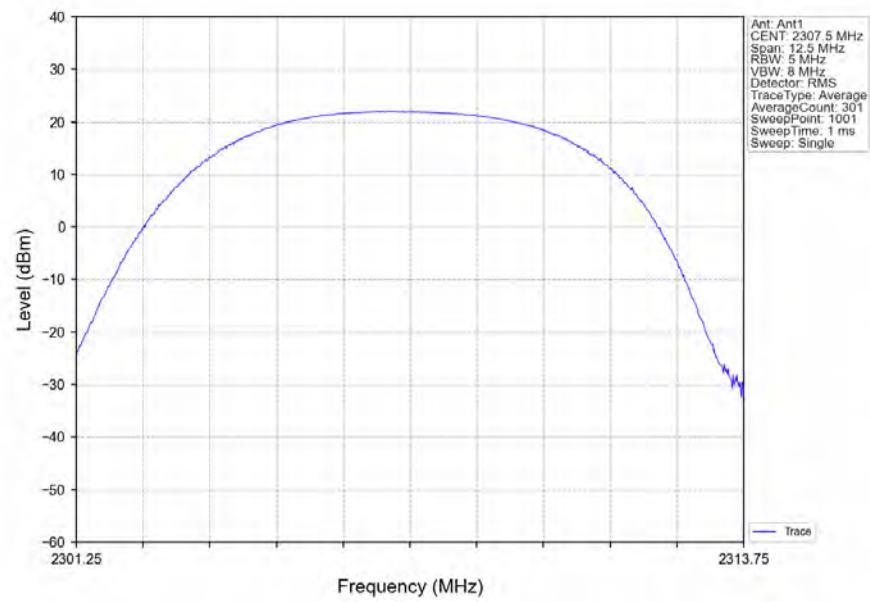
Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_24_NTNV



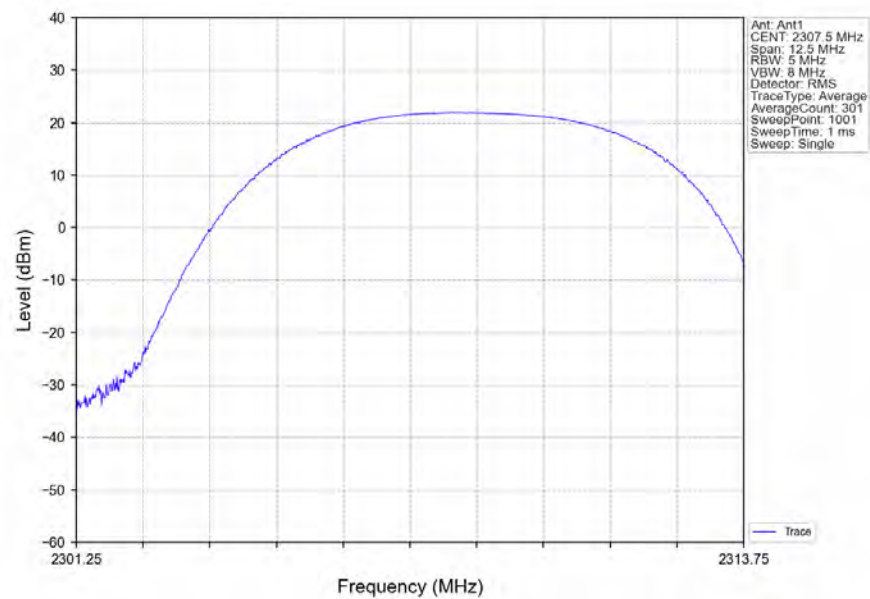
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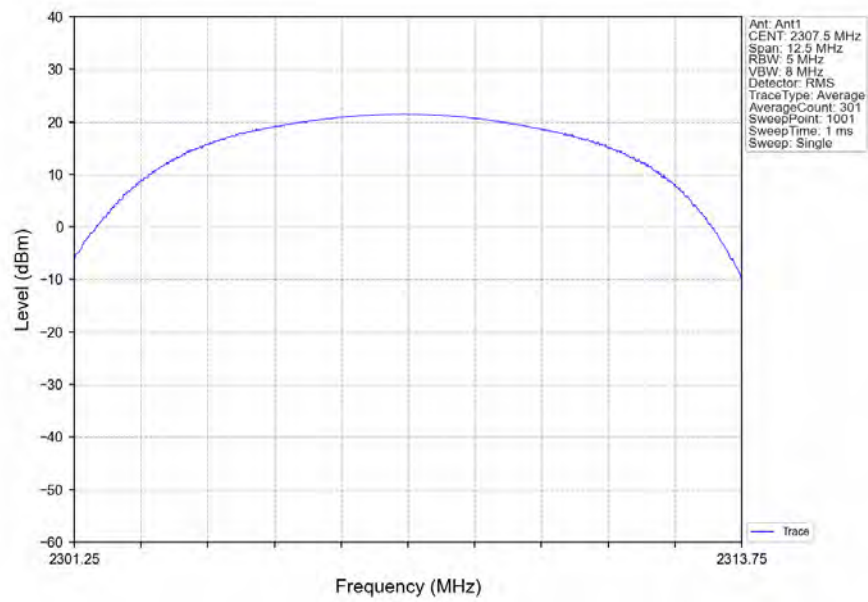
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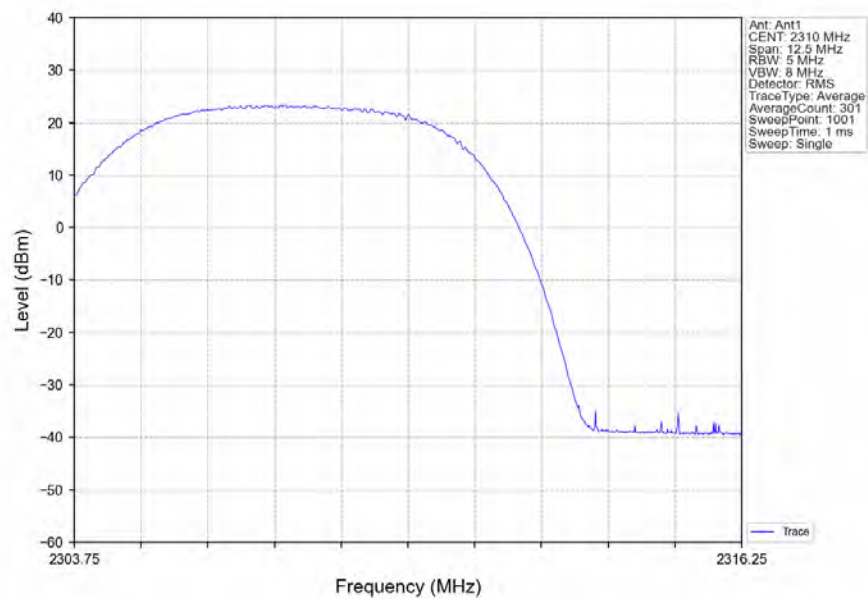
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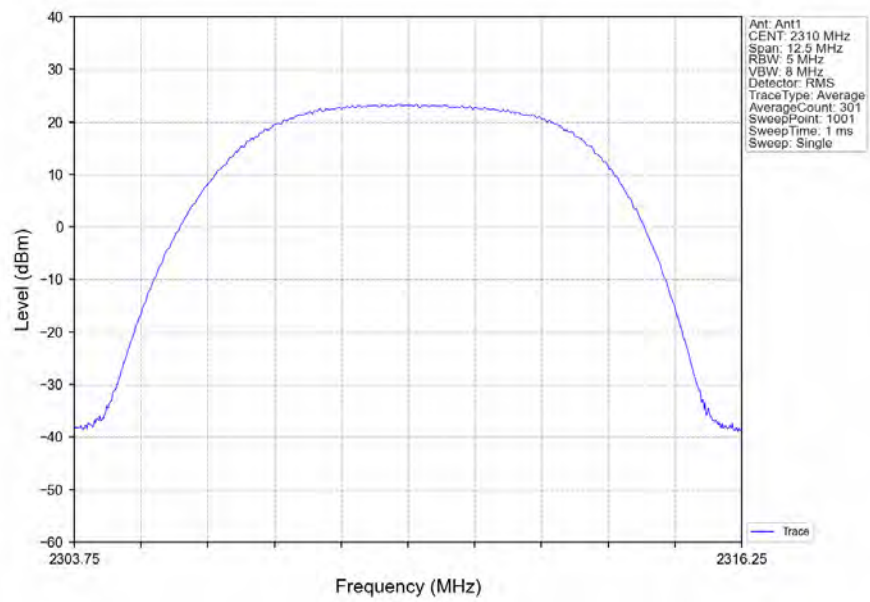
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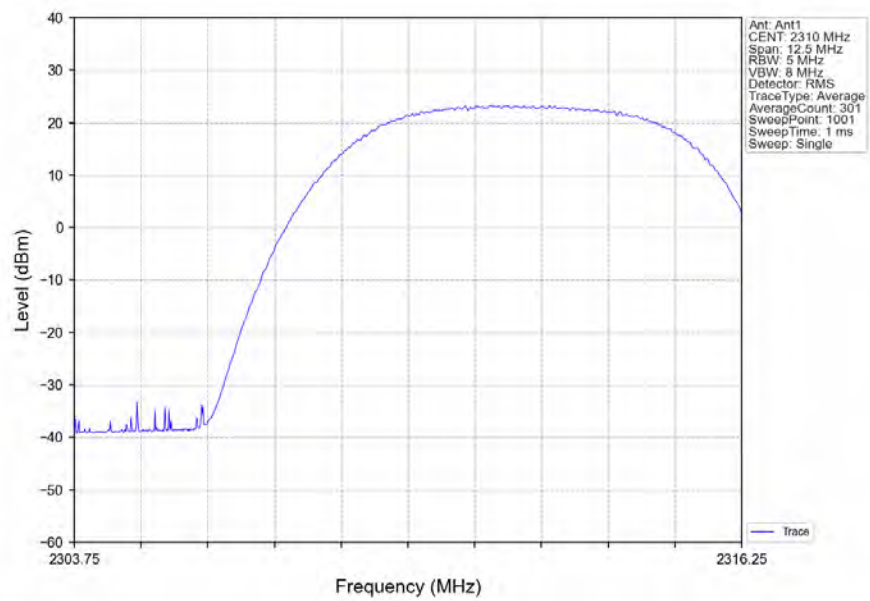
Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



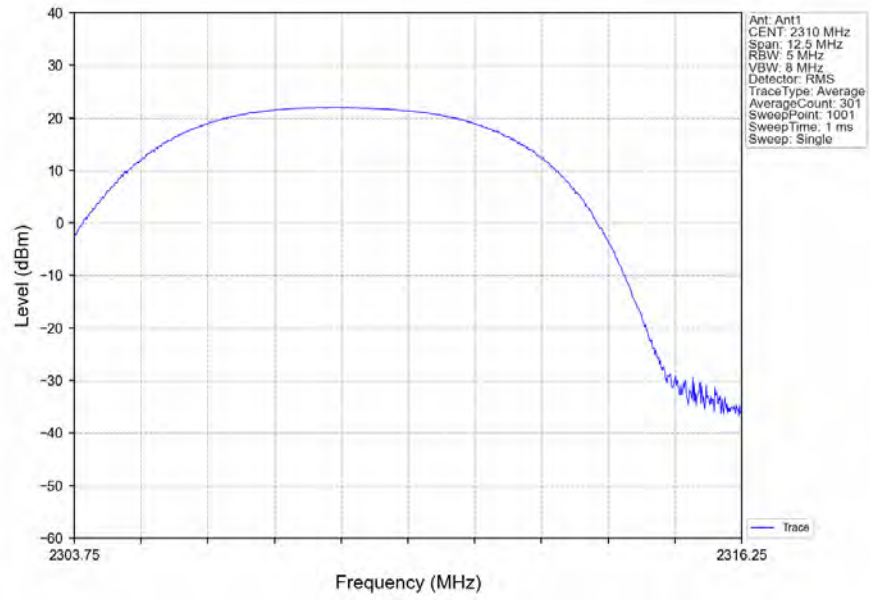
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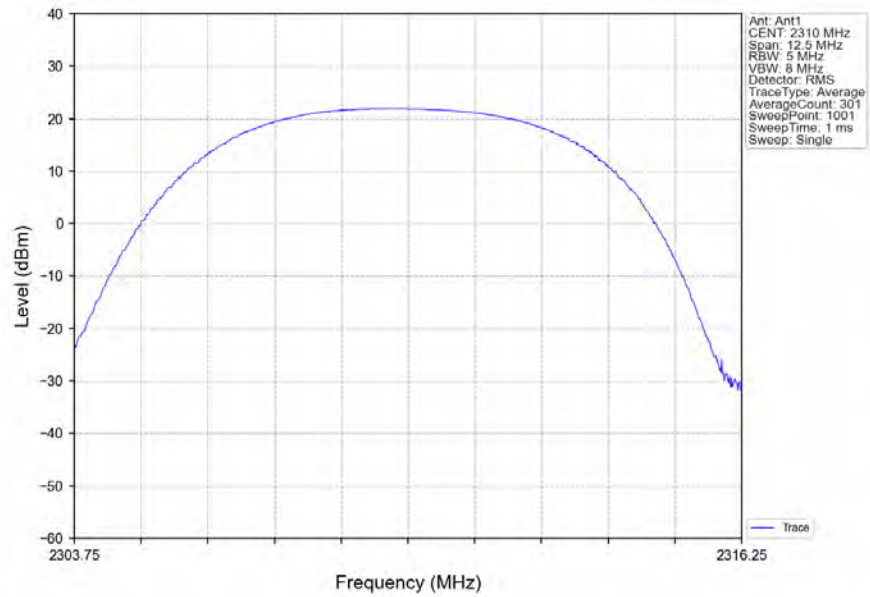
Band30_5MHz_QPSK_MCH_2310MHz_RB_1_24_NTNV



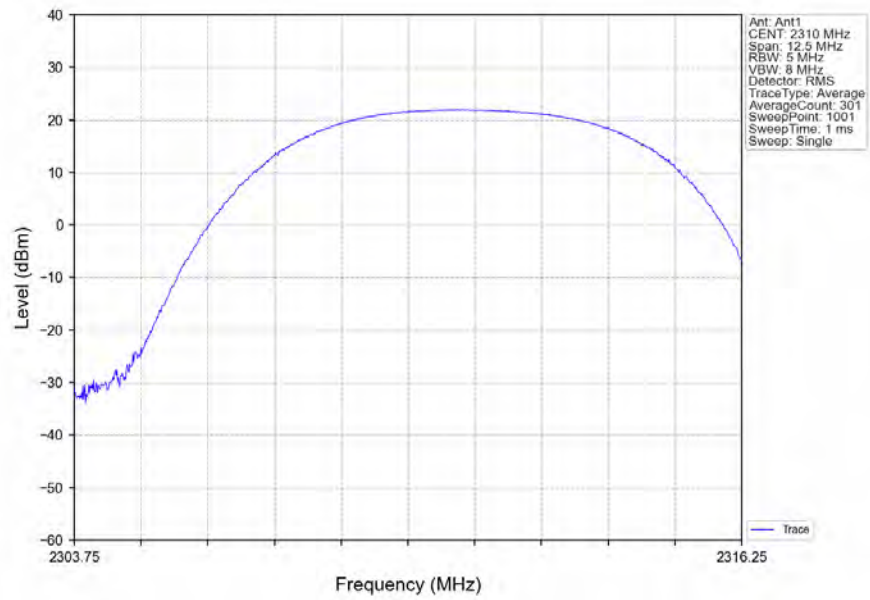
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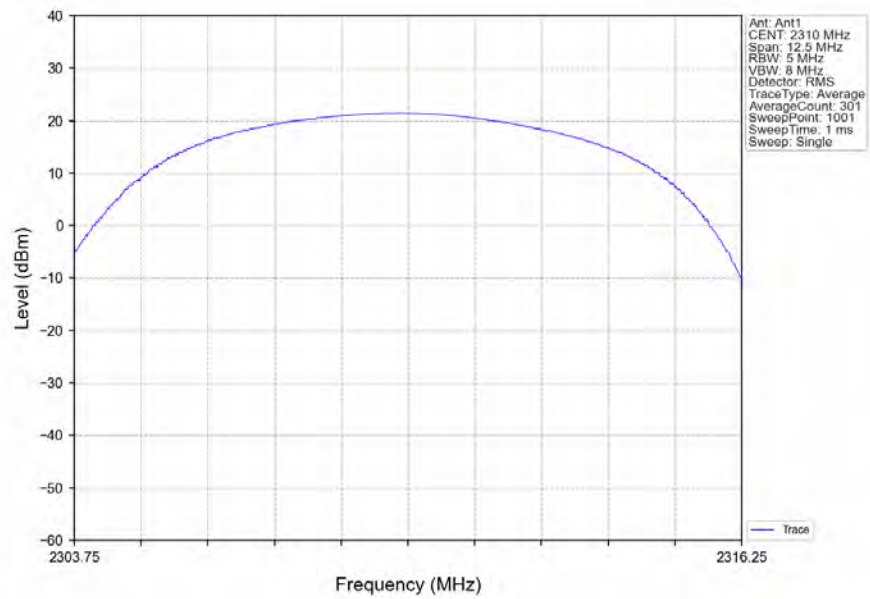
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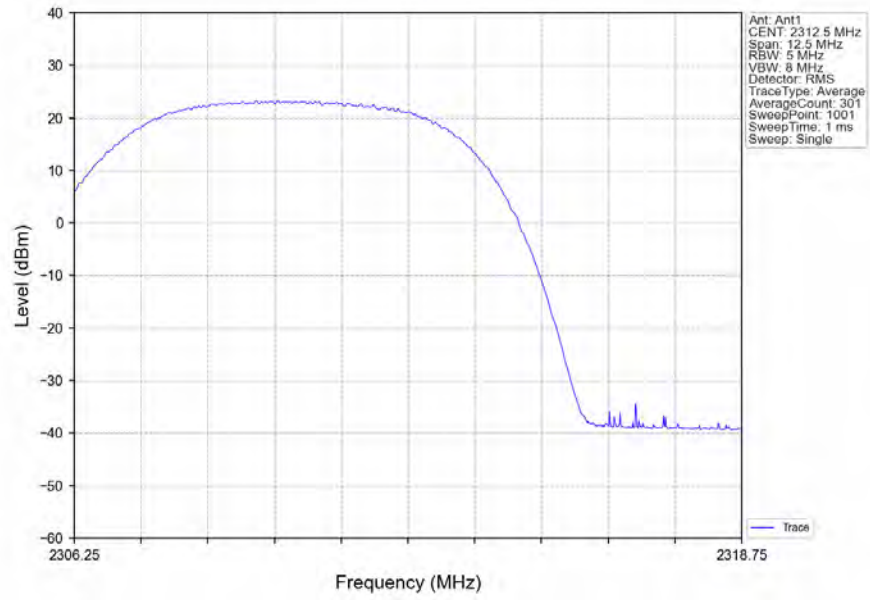
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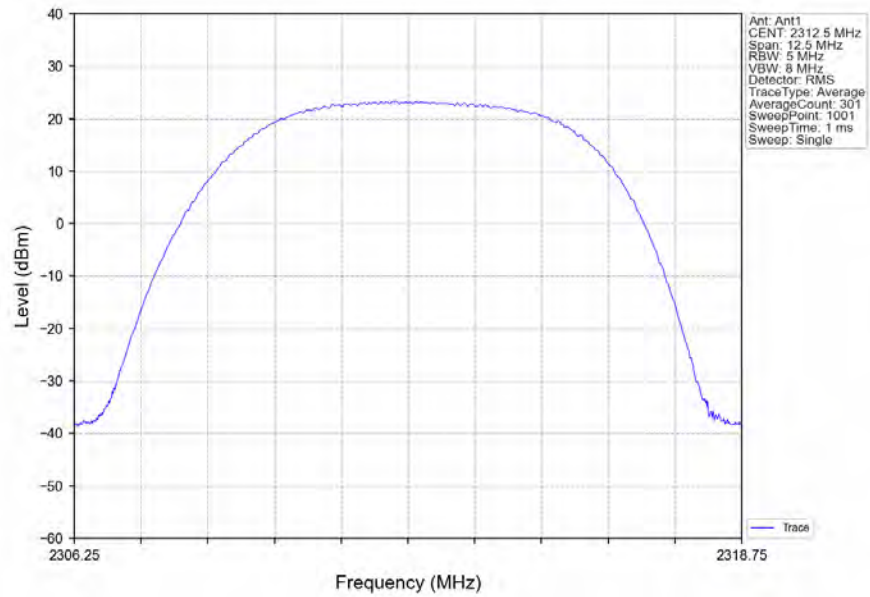
Band30_5MHz_QPSK_MCH_2310MHz_RB_25_0_NTNV



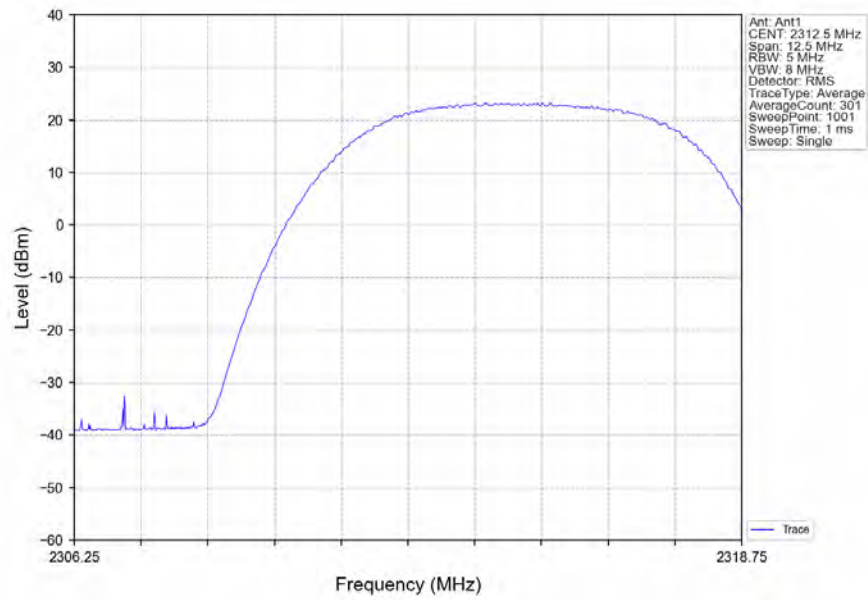
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



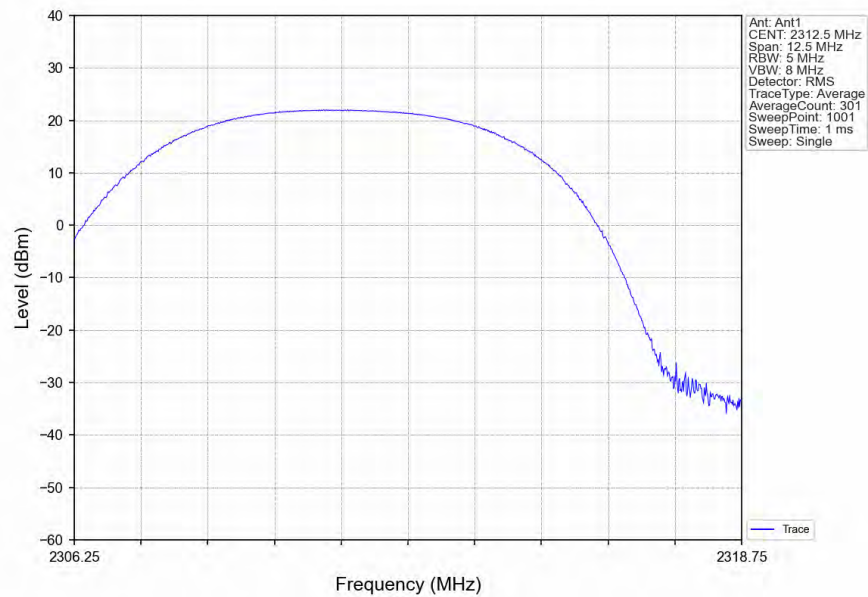
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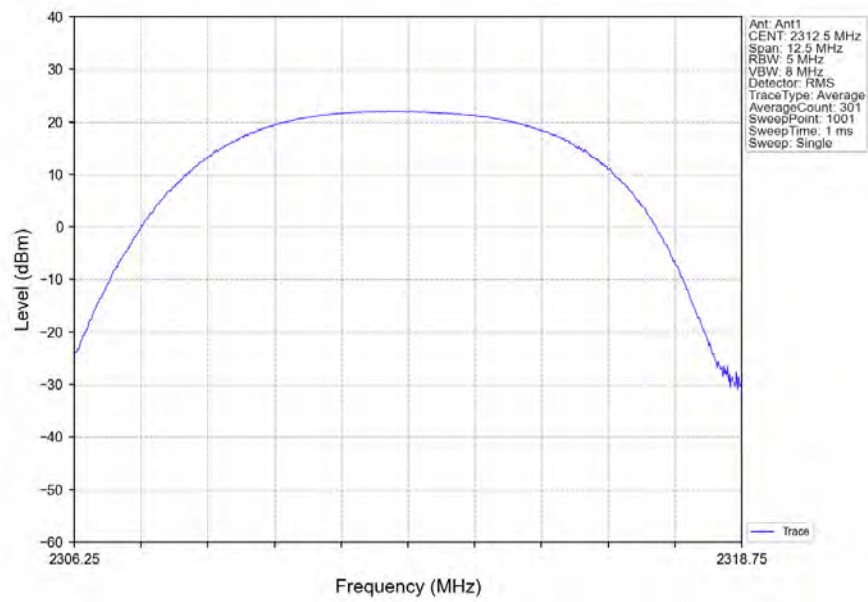
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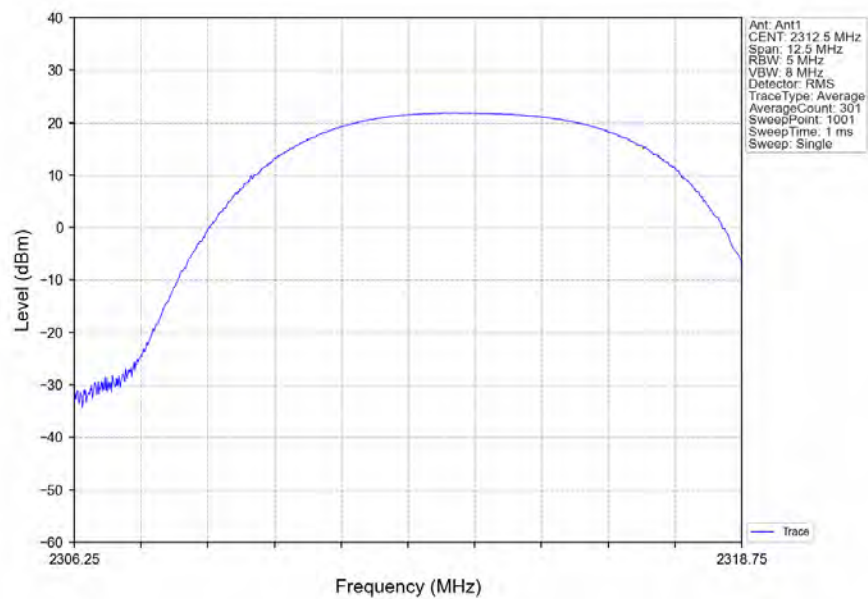
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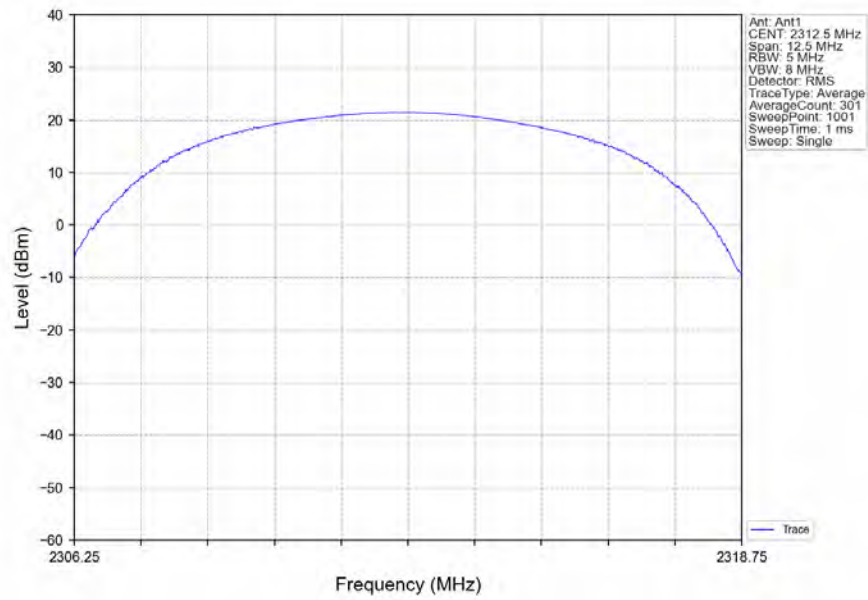
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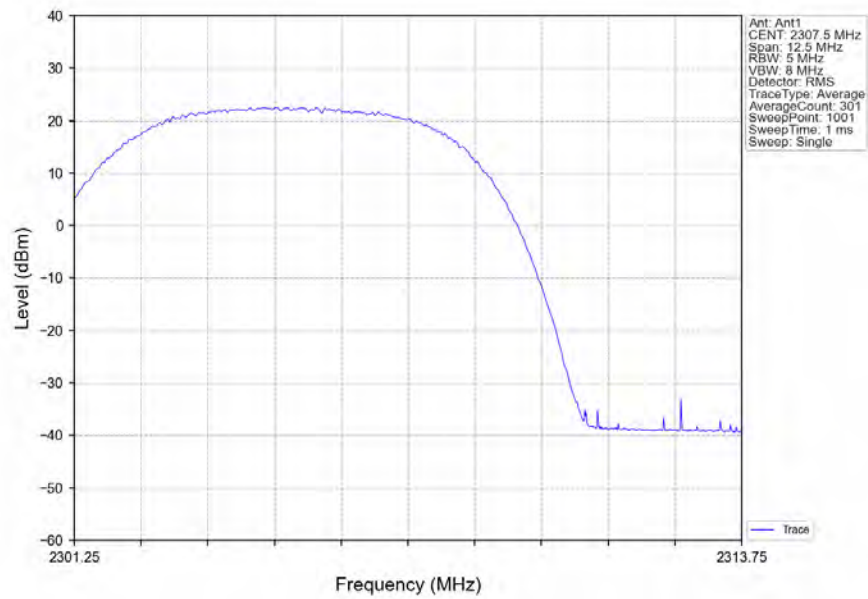
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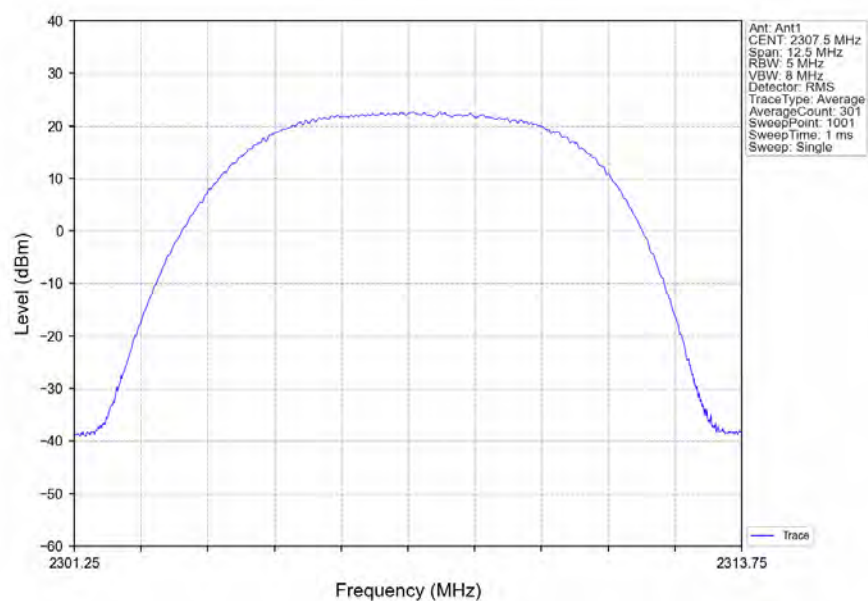
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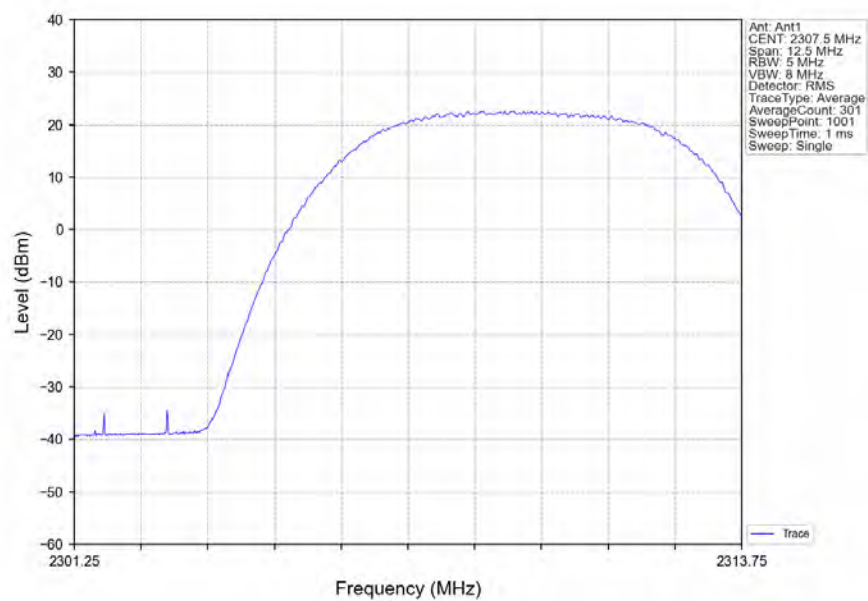
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV



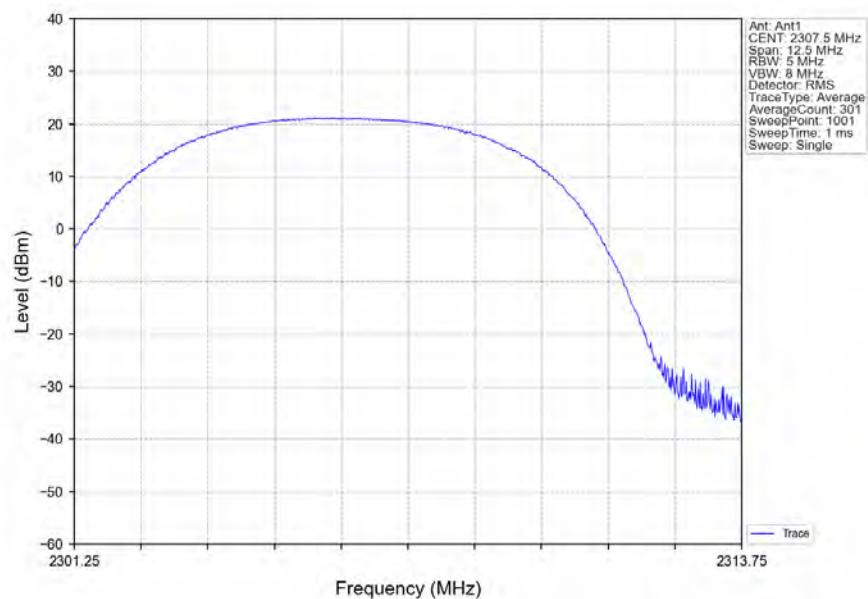
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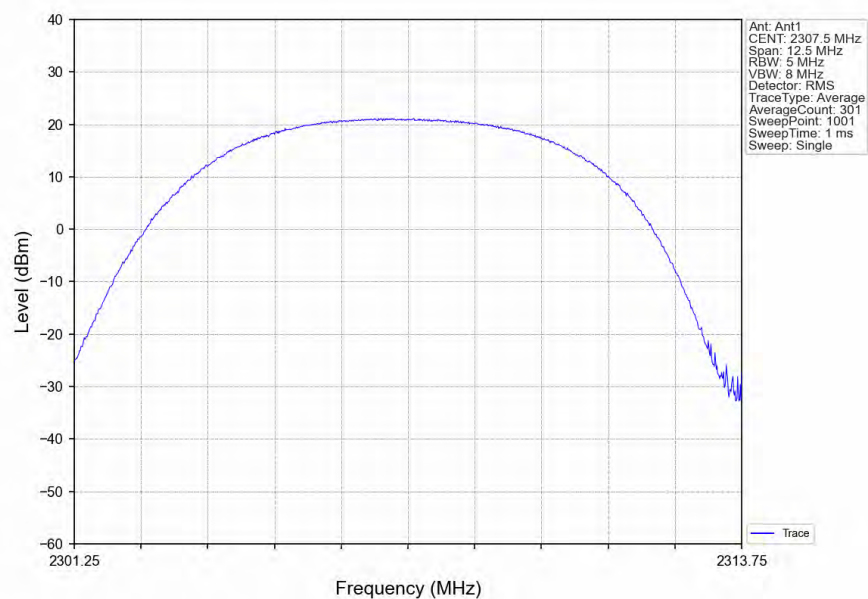
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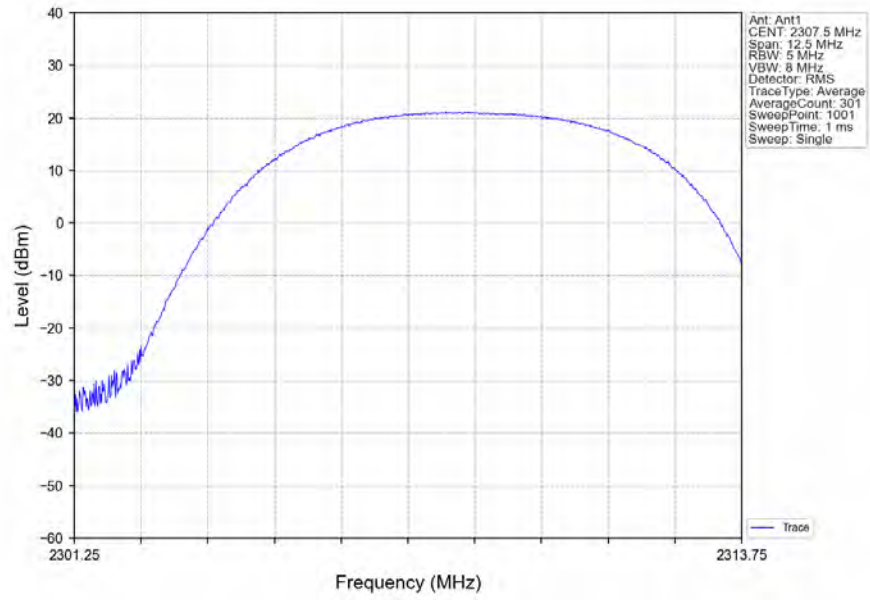
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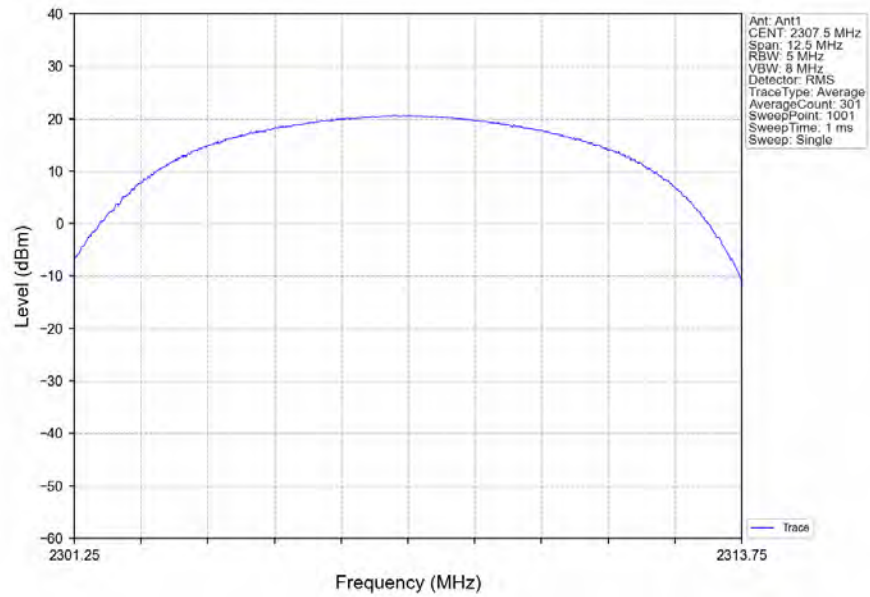
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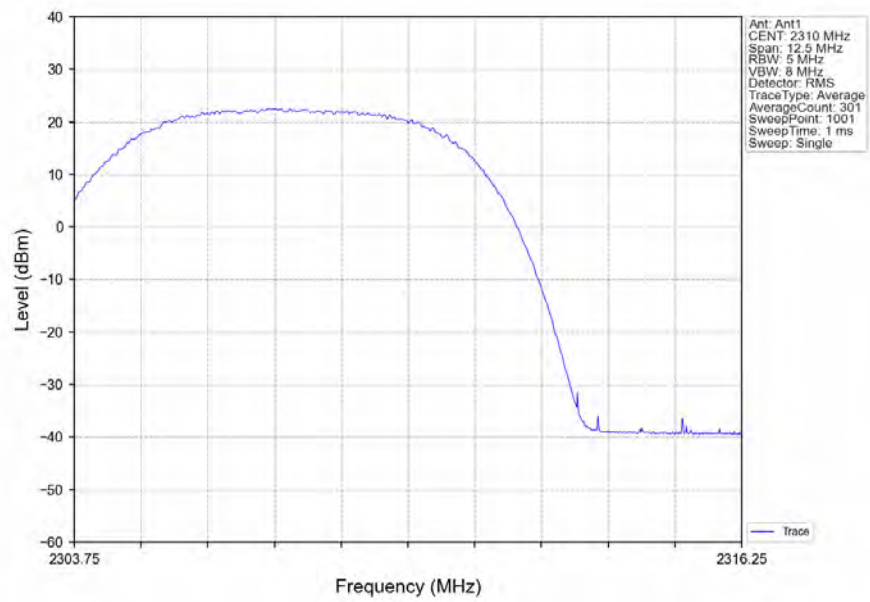
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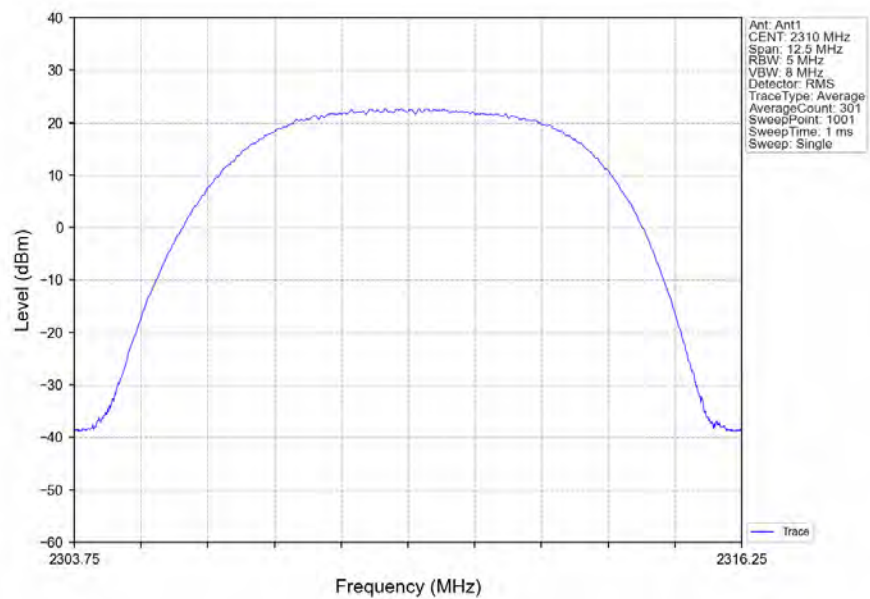
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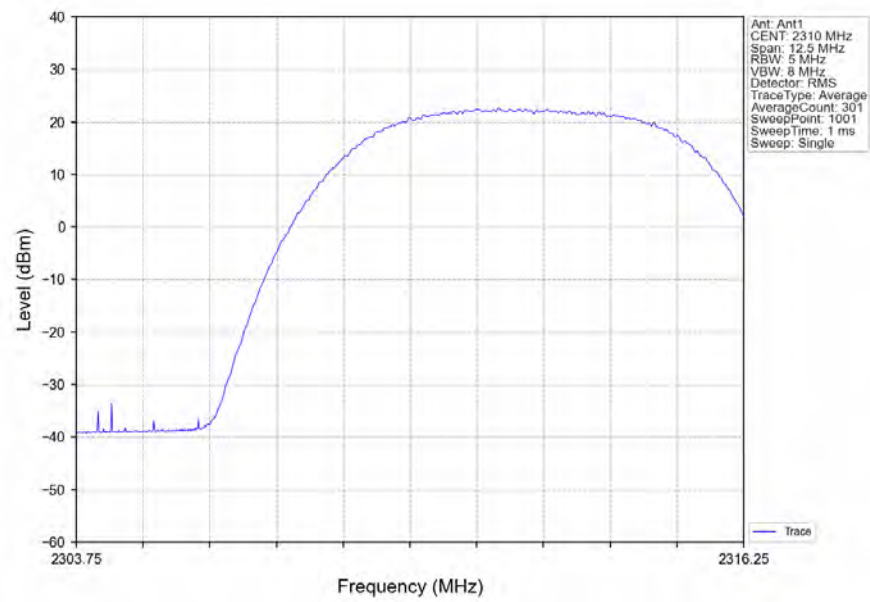
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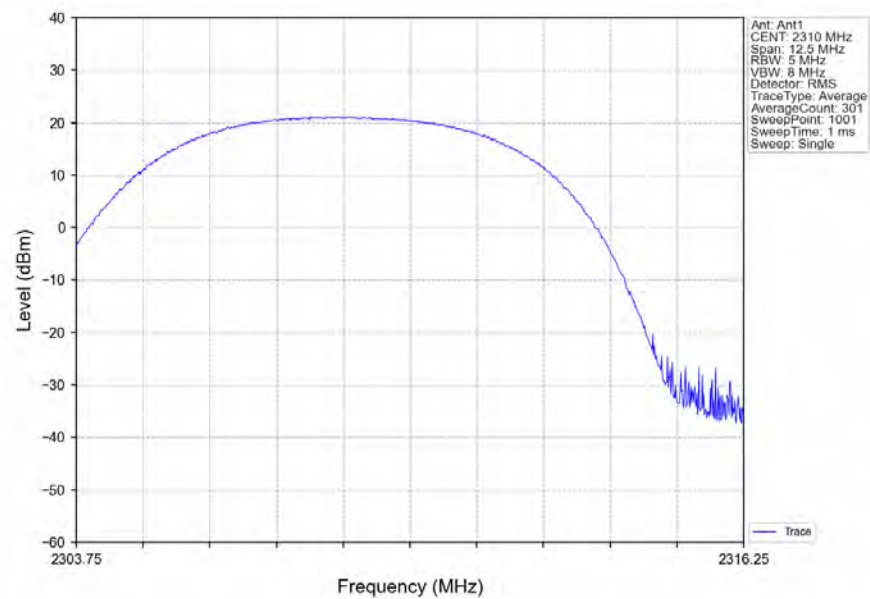
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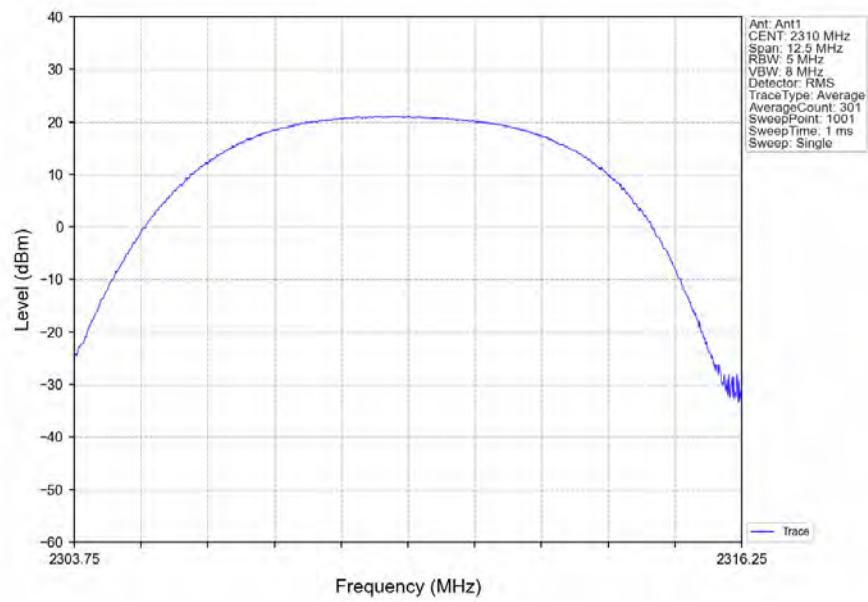
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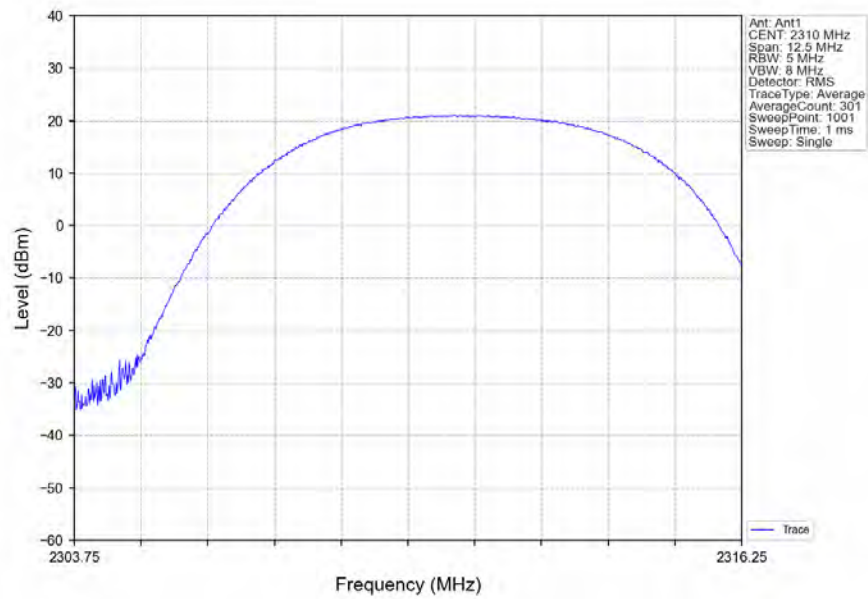
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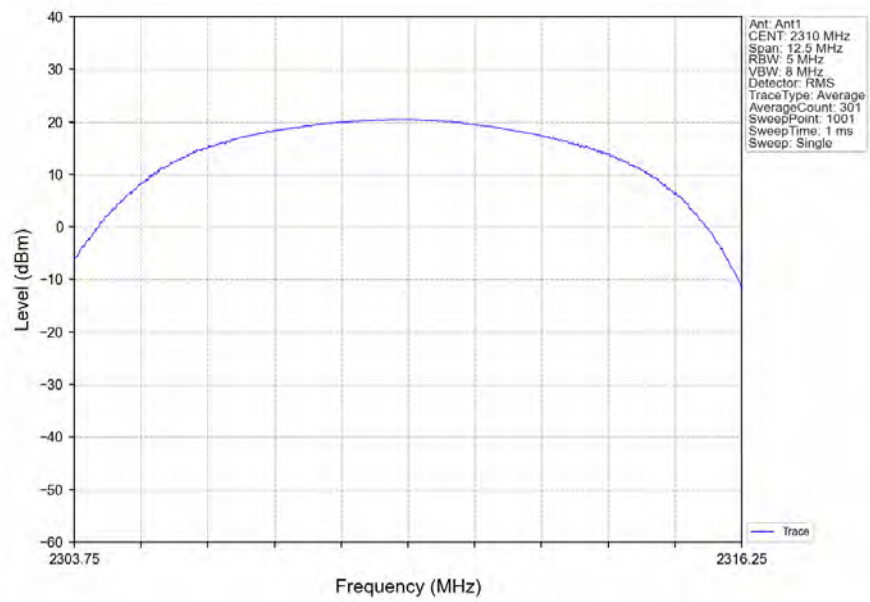
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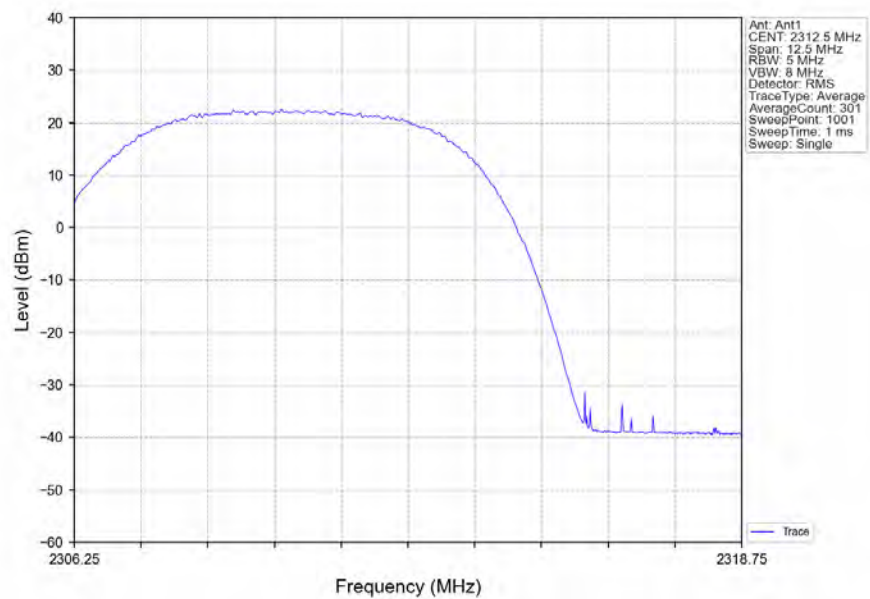
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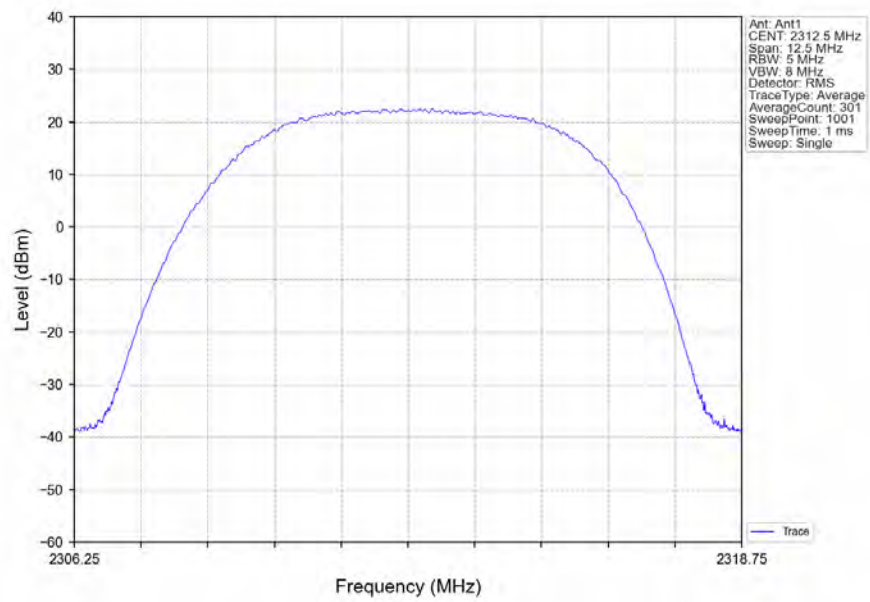
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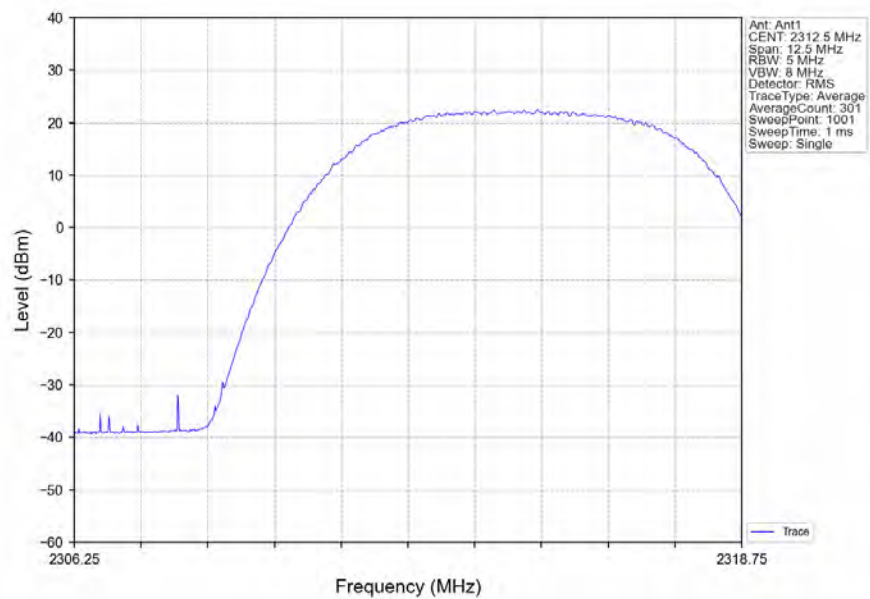
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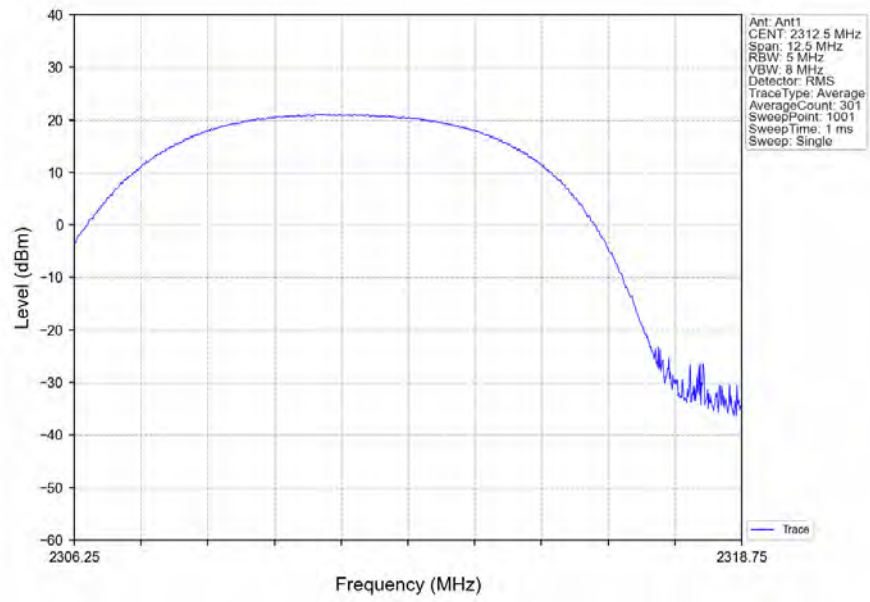
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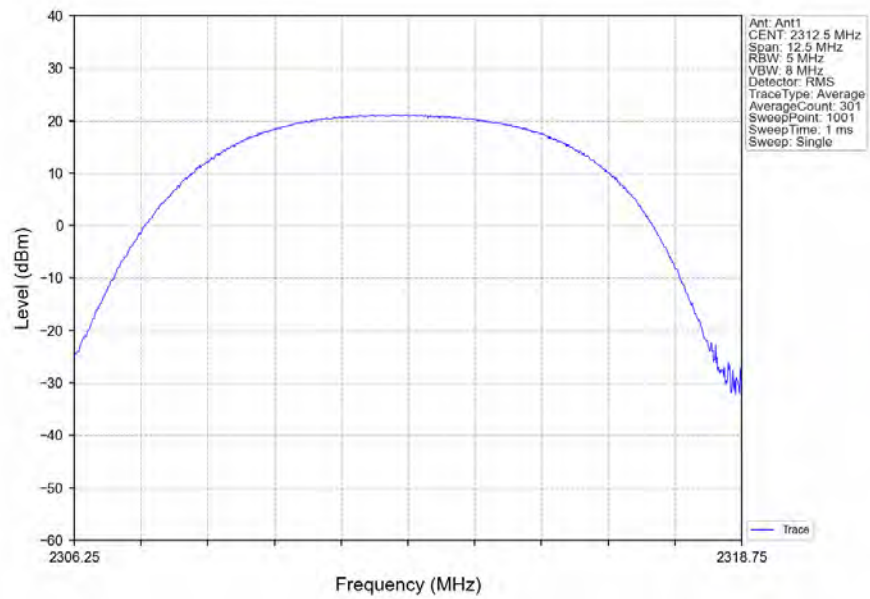
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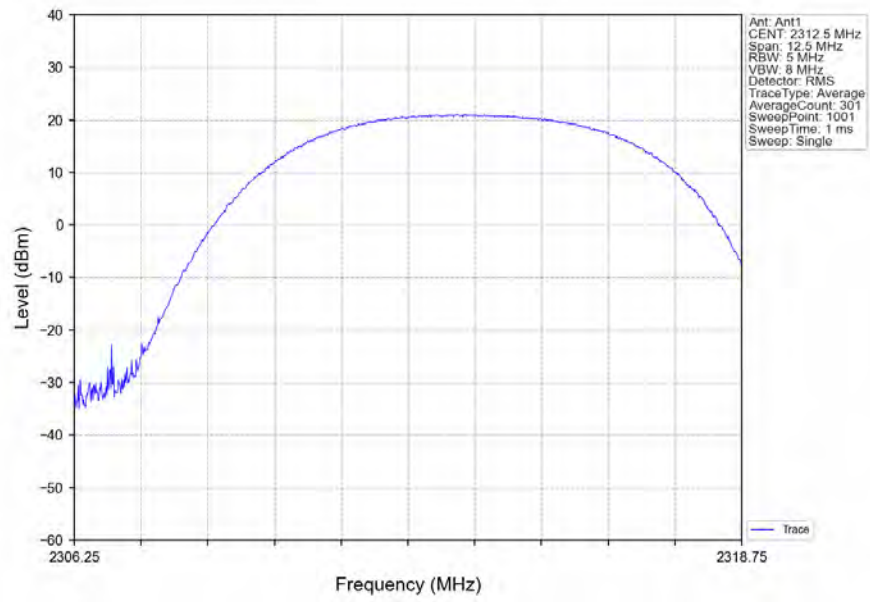
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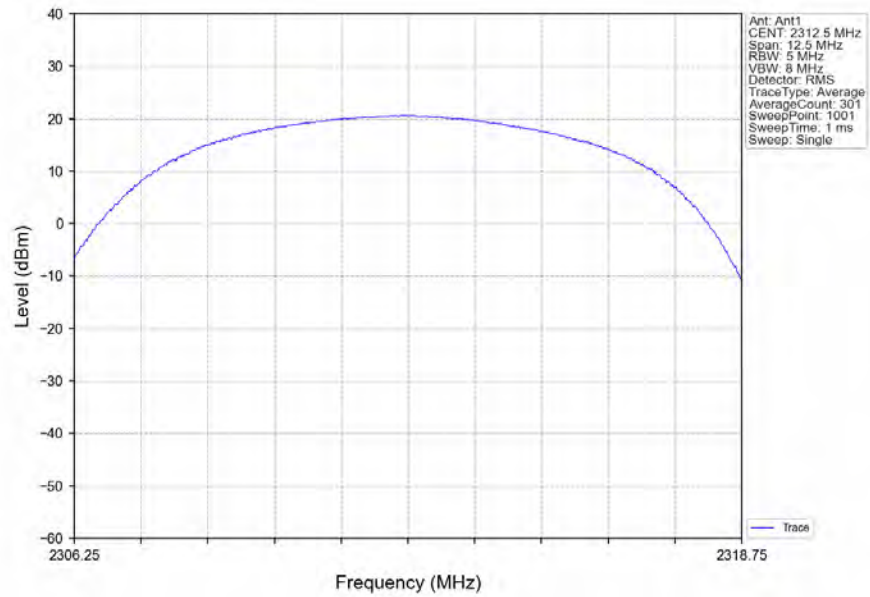
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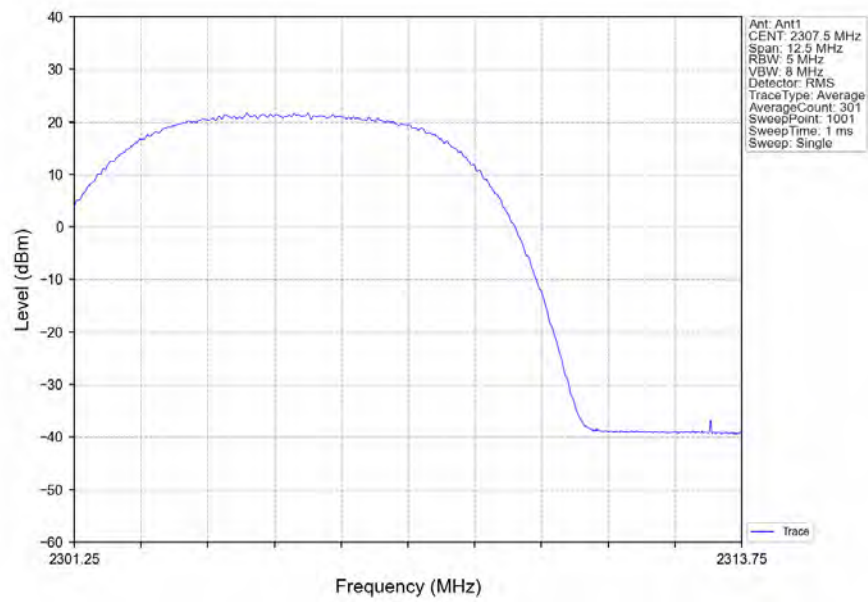
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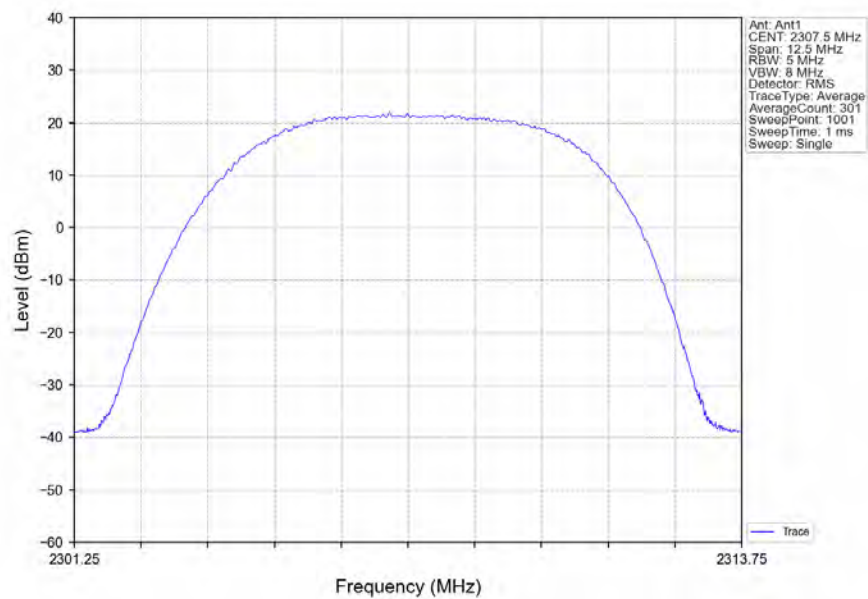
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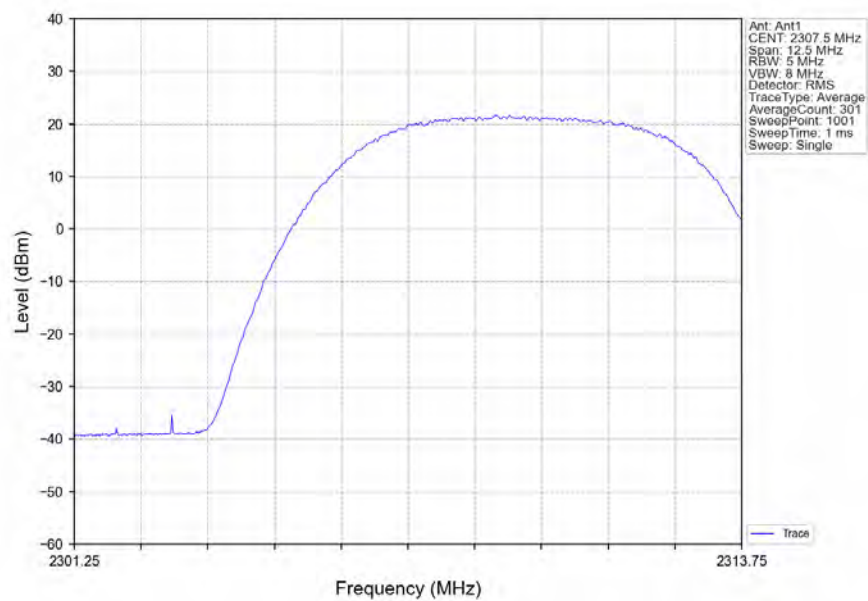
Band30_5MHz_64QAM_LCH_2307.5MHz_RB_1_0_NTNV



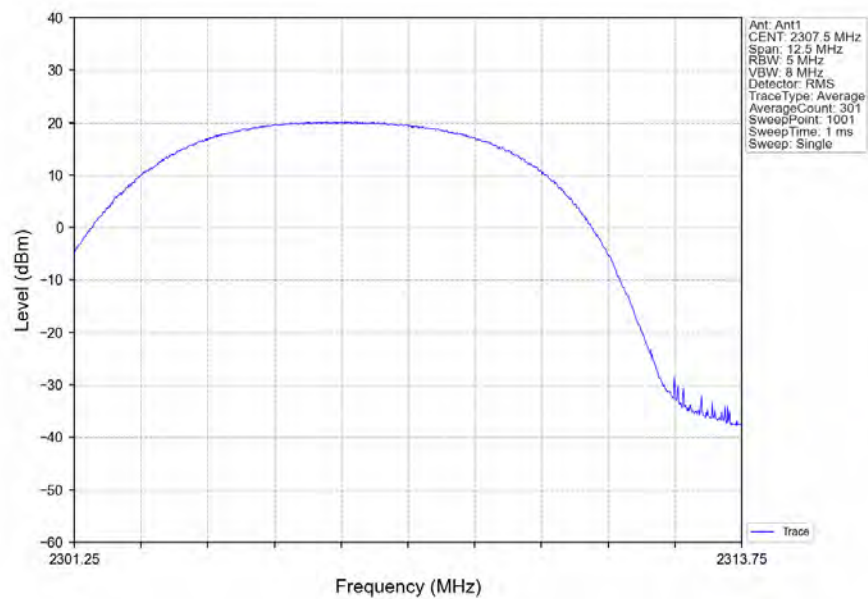
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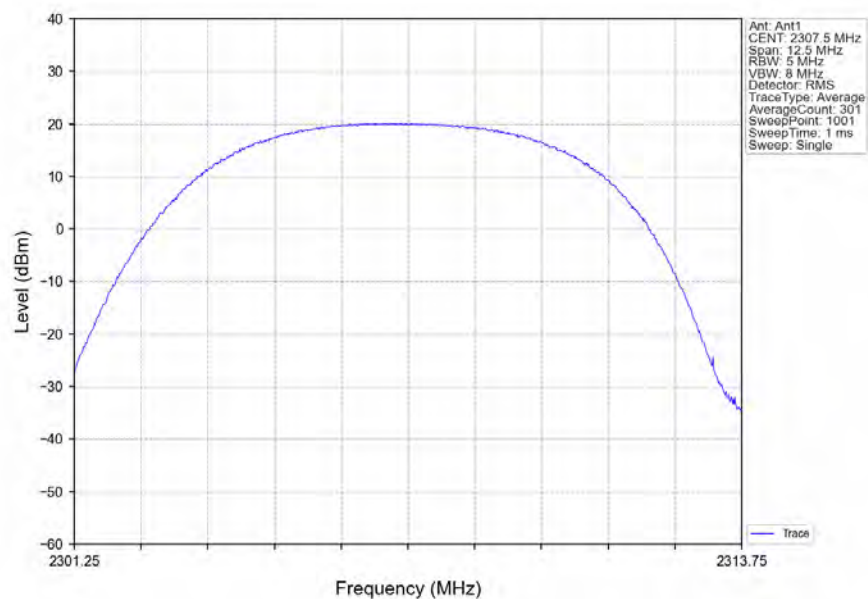
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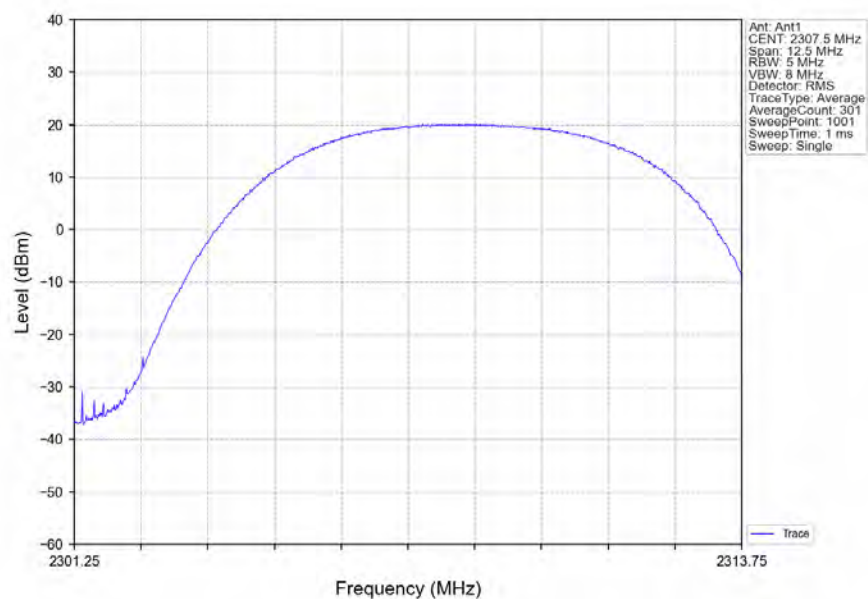
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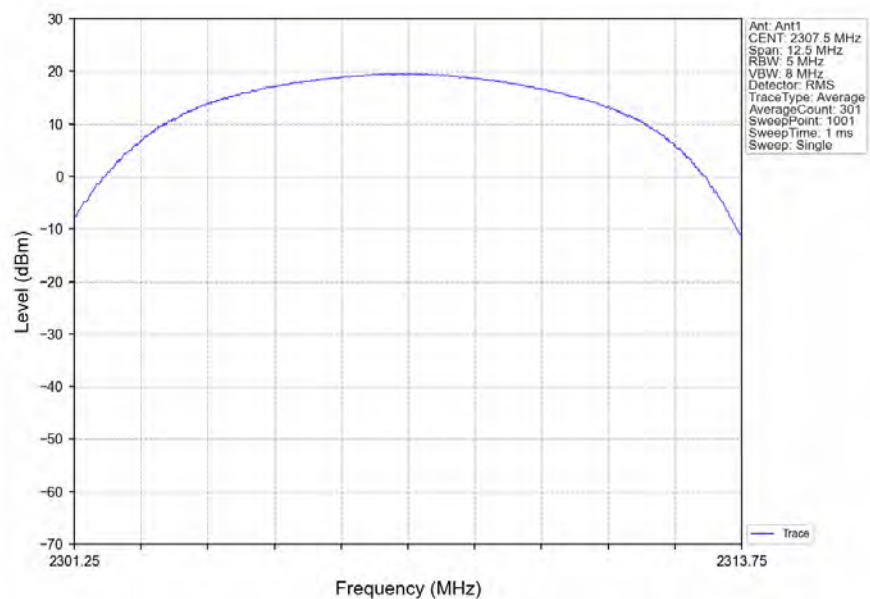
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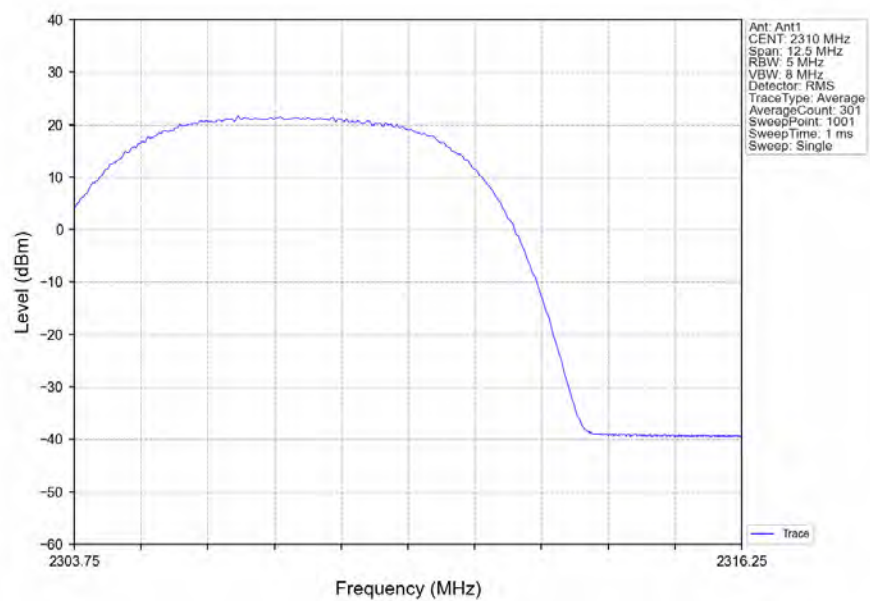
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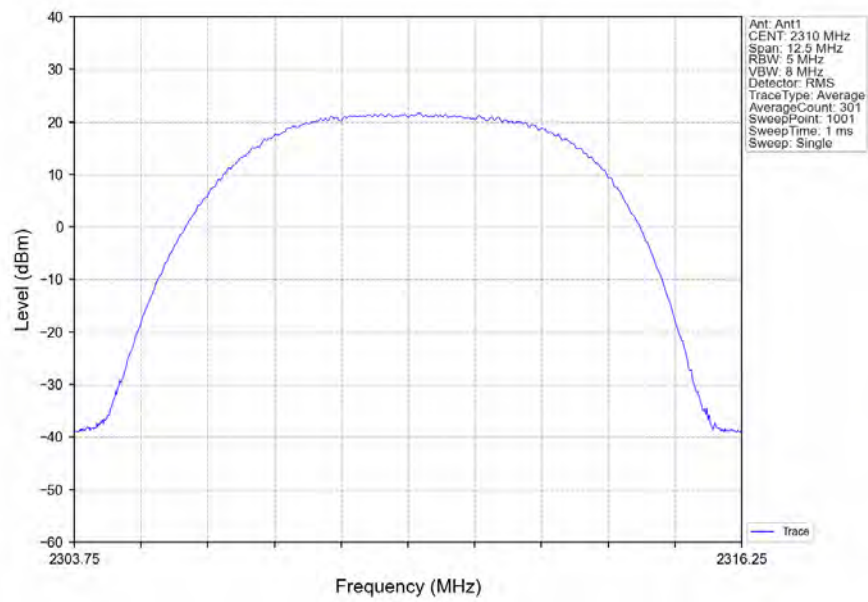
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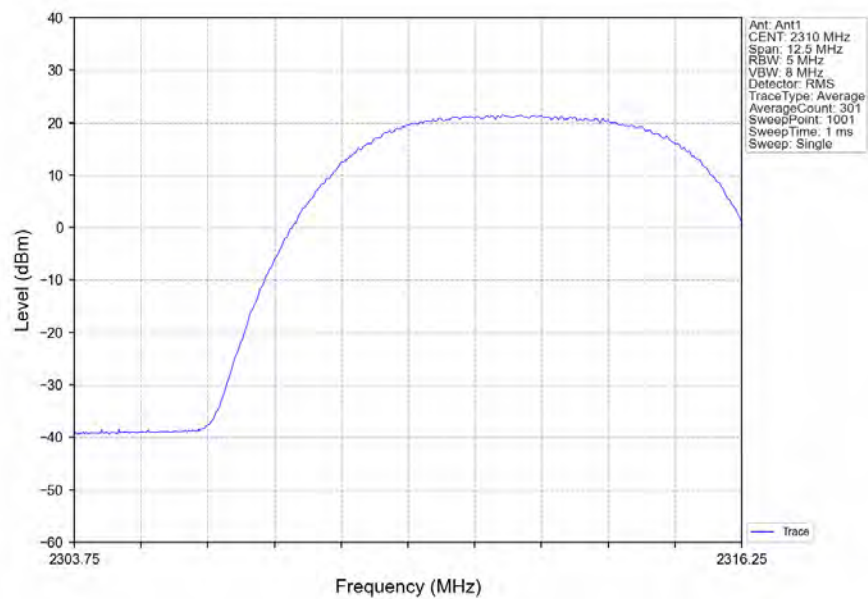
Band30_5MHz_64QAM_MCH_2310MHz_RB_1_0_NTNV



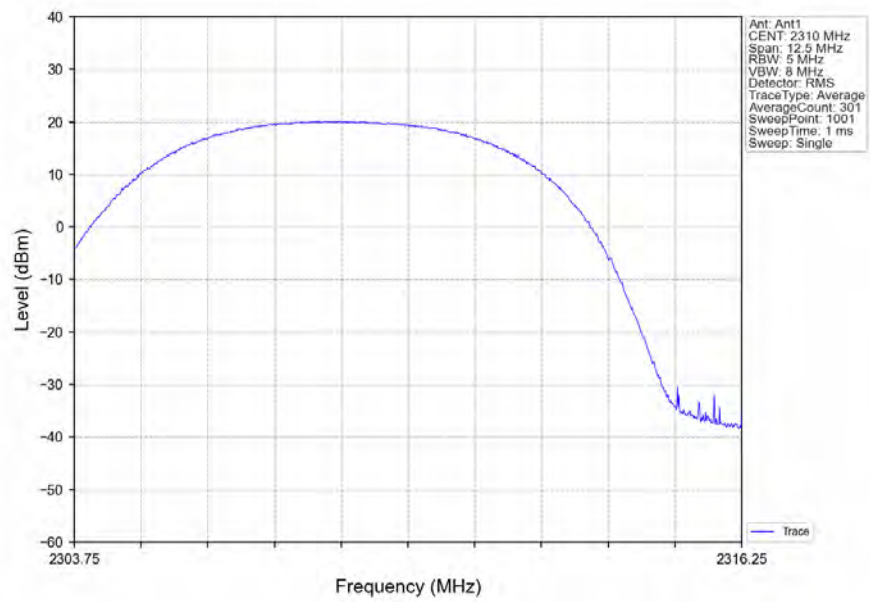
Band30_5MHz_64QAM_MCH_2310MHz_RB_1_13_NTNV



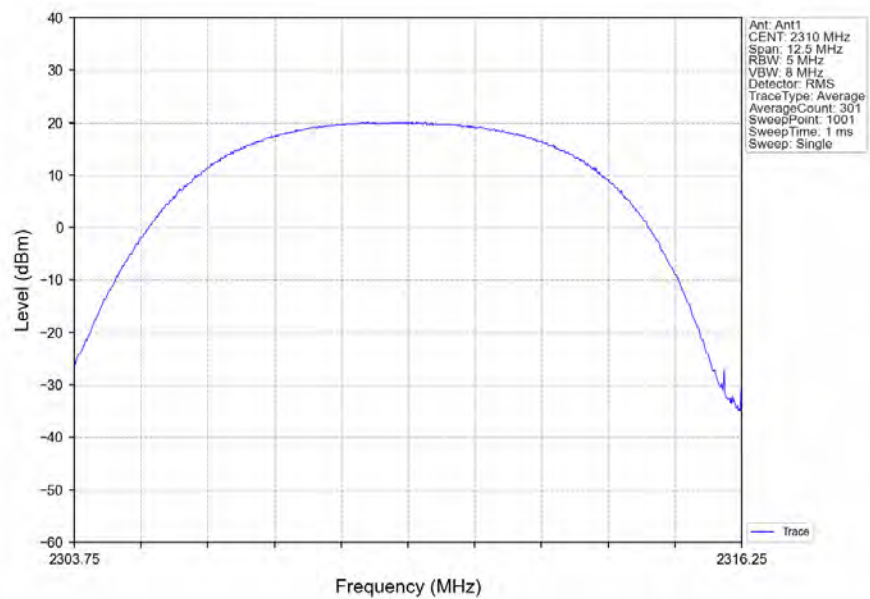
Band30_5MHz_64QAM_MCH_2310MHz_RB_1_24_NTNV



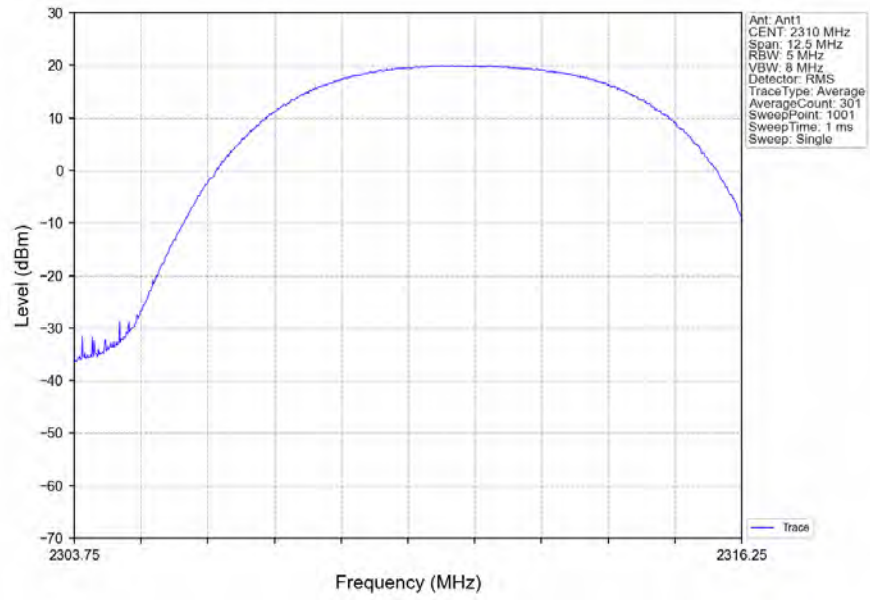
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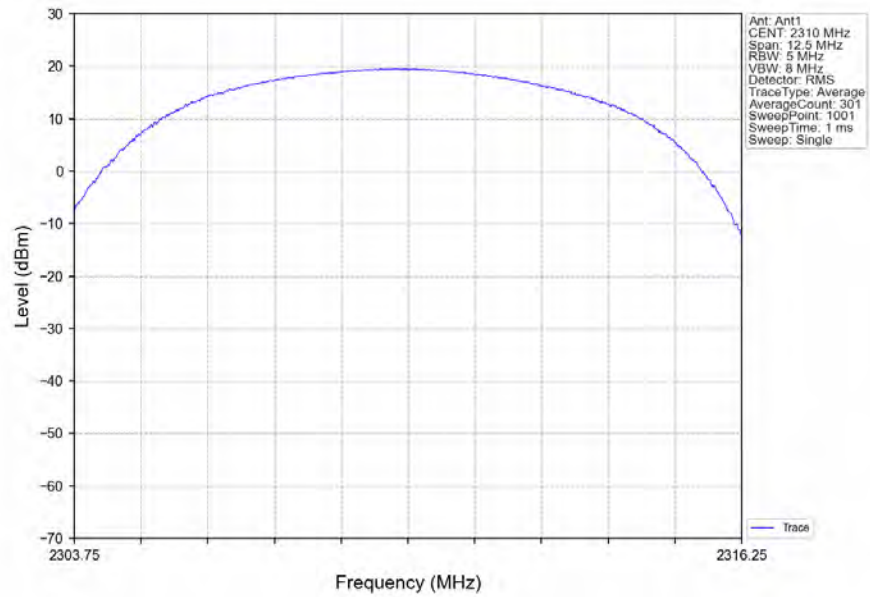
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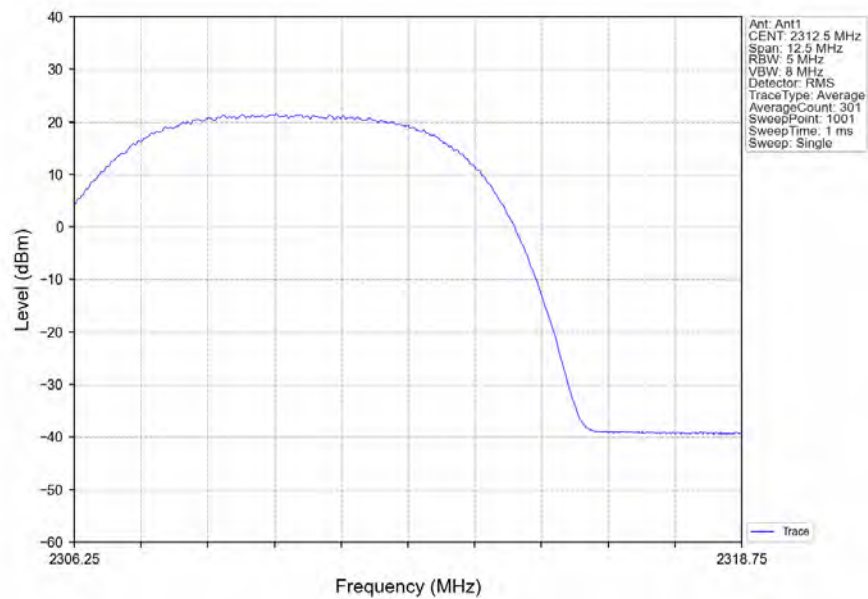
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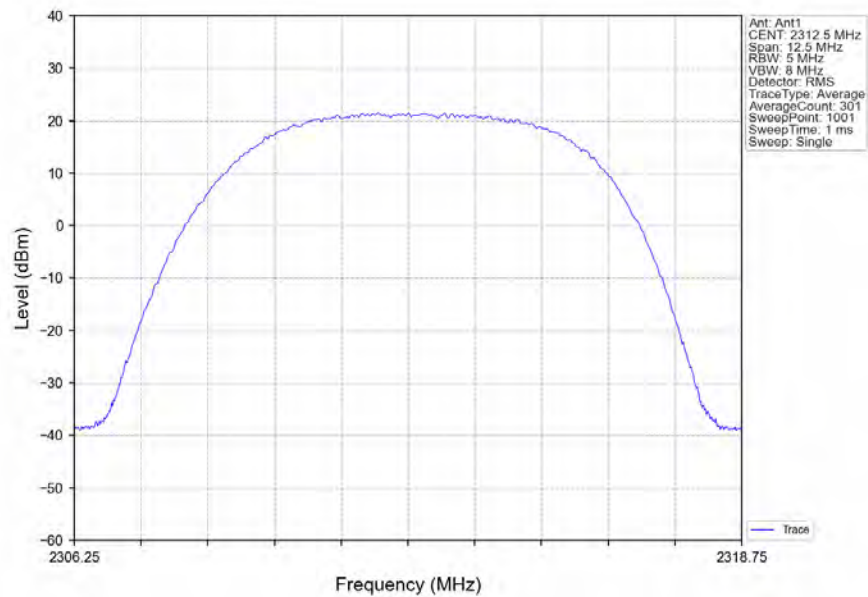
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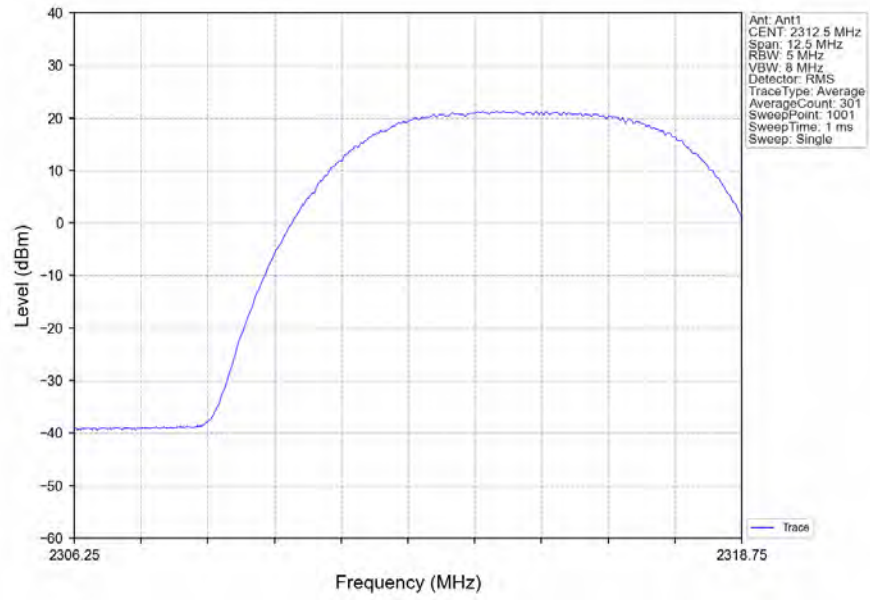
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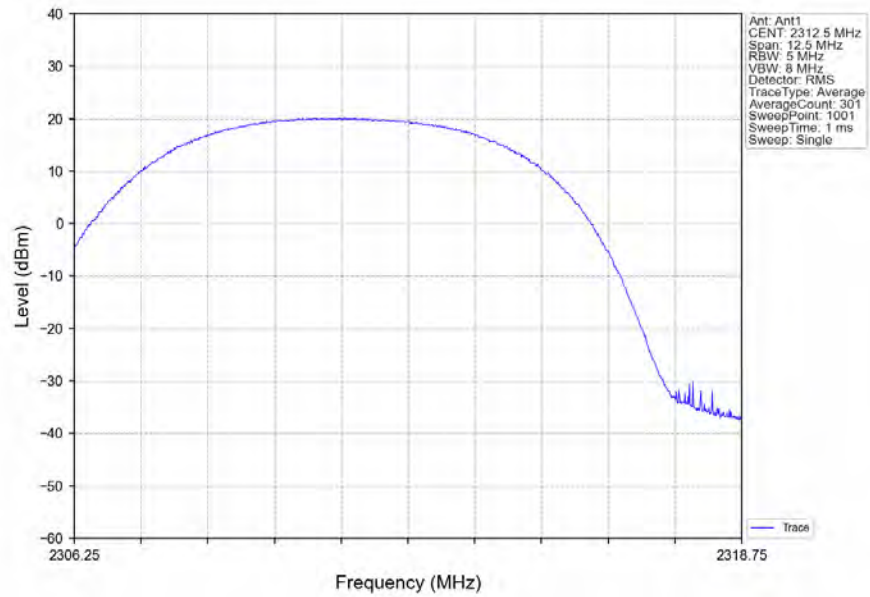
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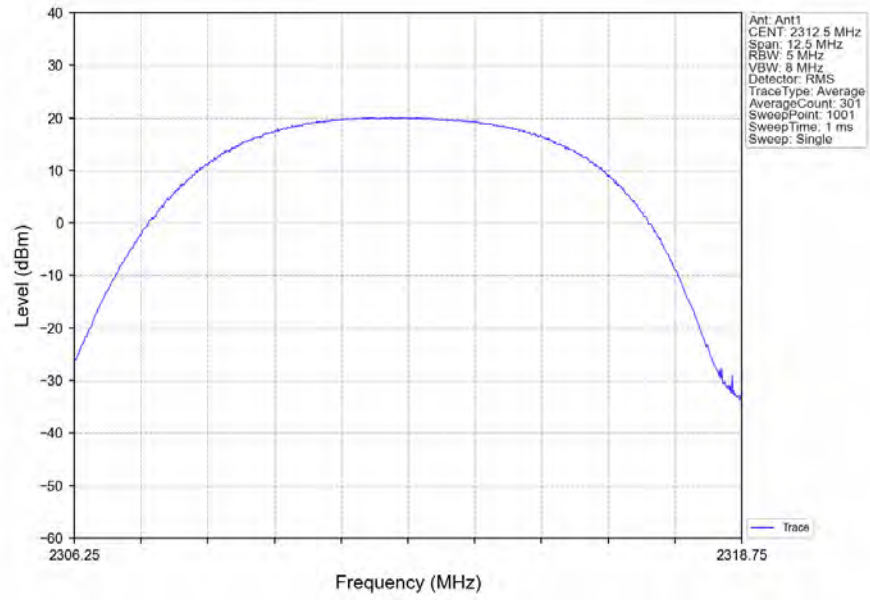
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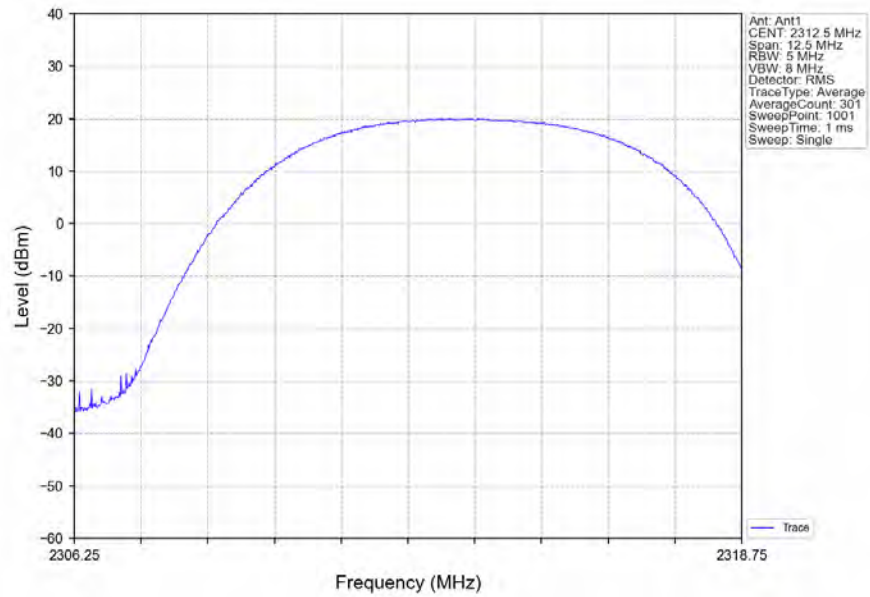
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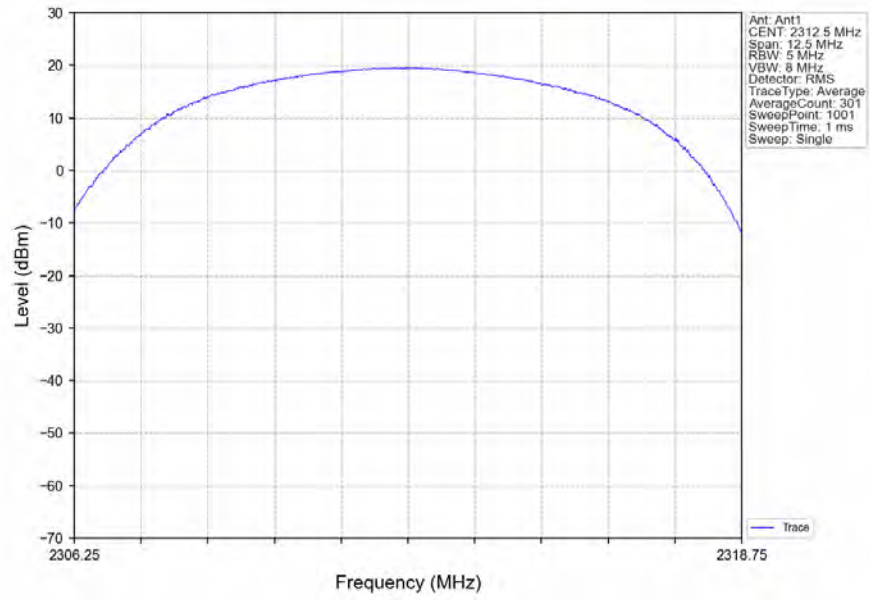
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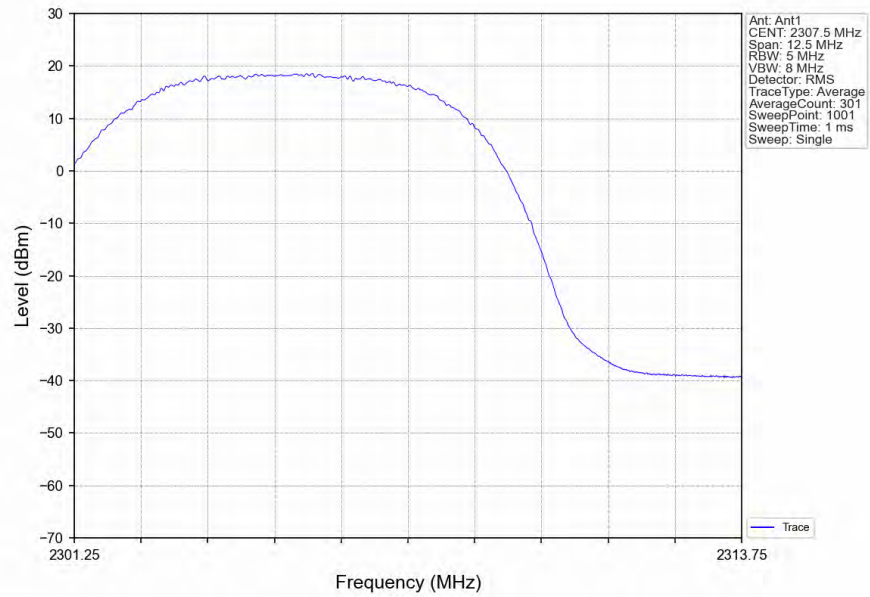
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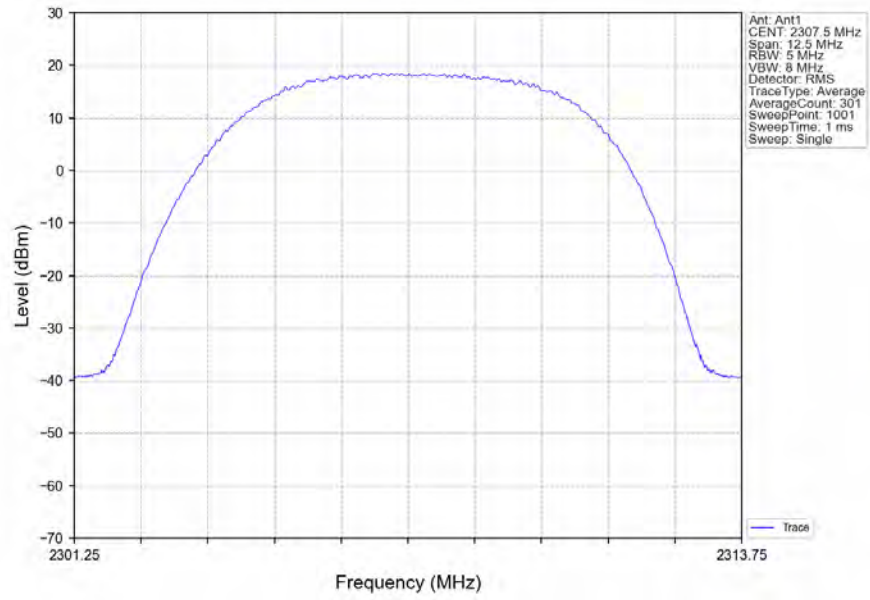
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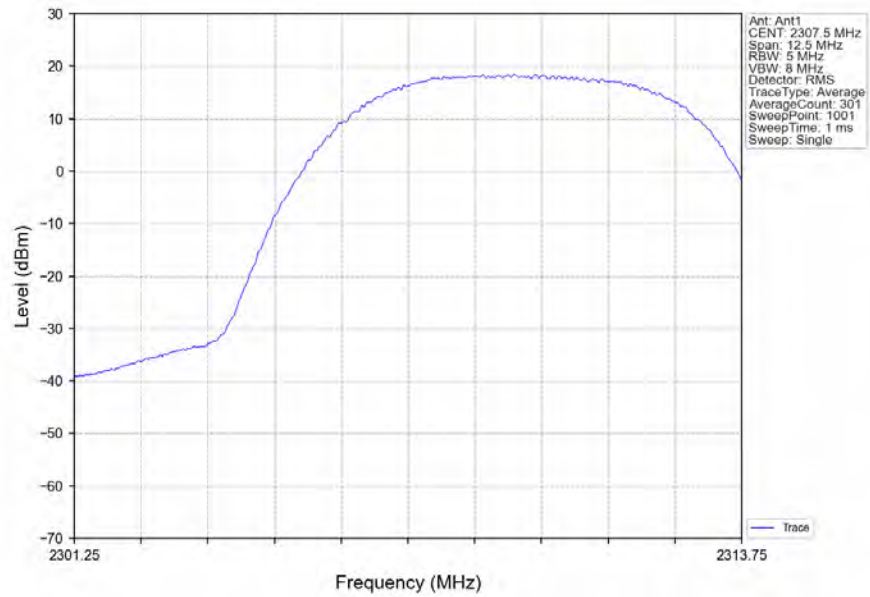
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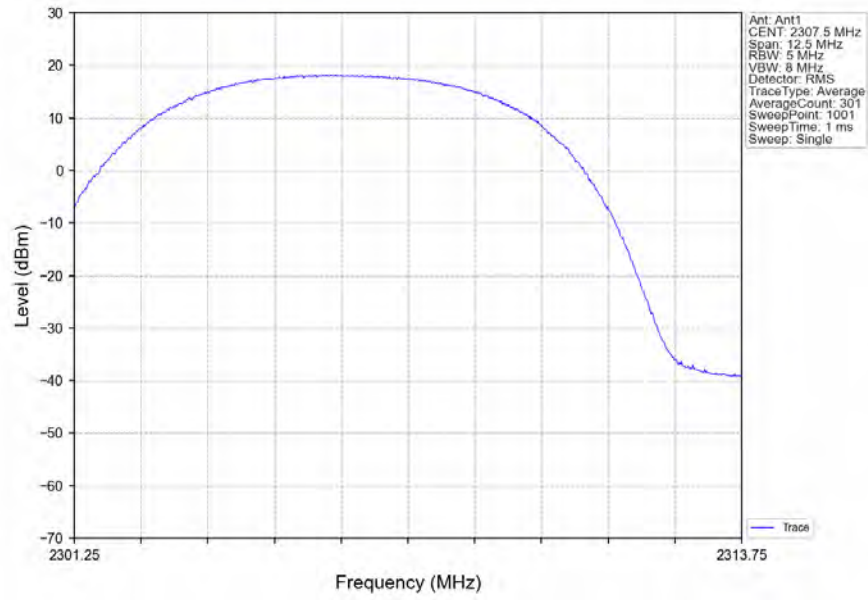
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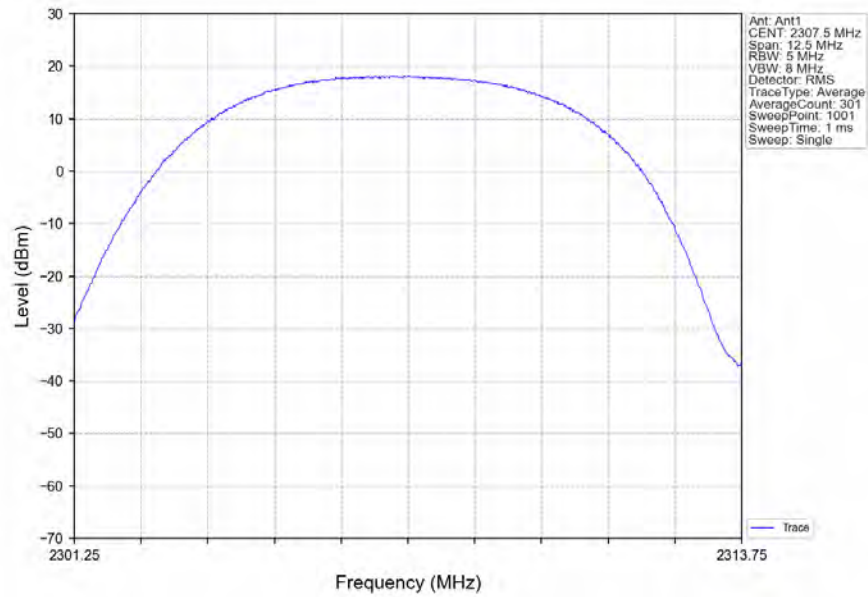
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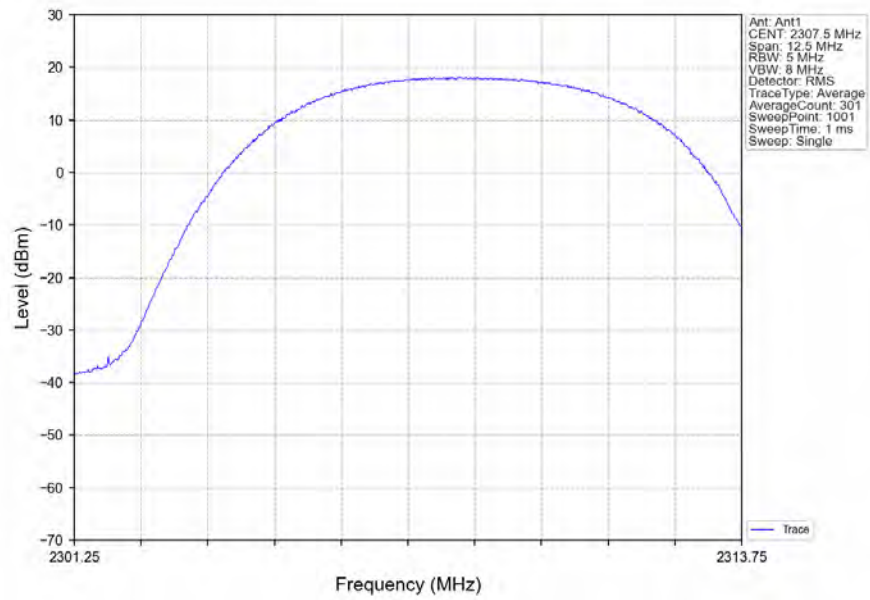
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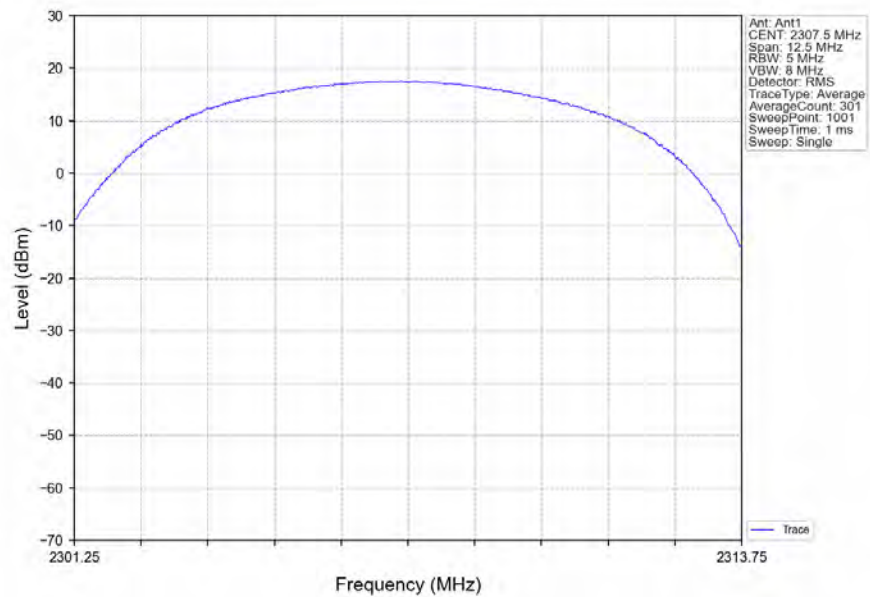
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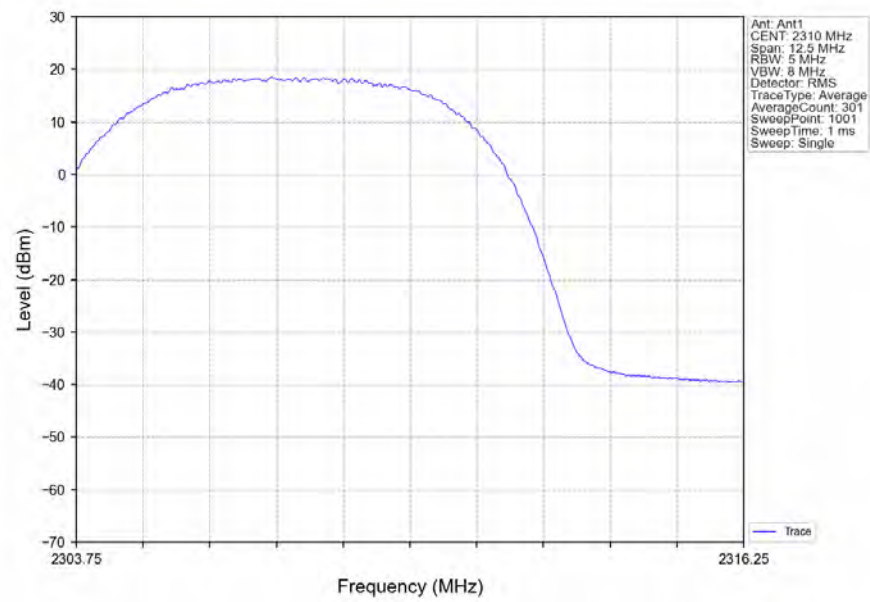
Band30 5MHz 256QAM LCH 2307.5MHz RB 12 13 NTN



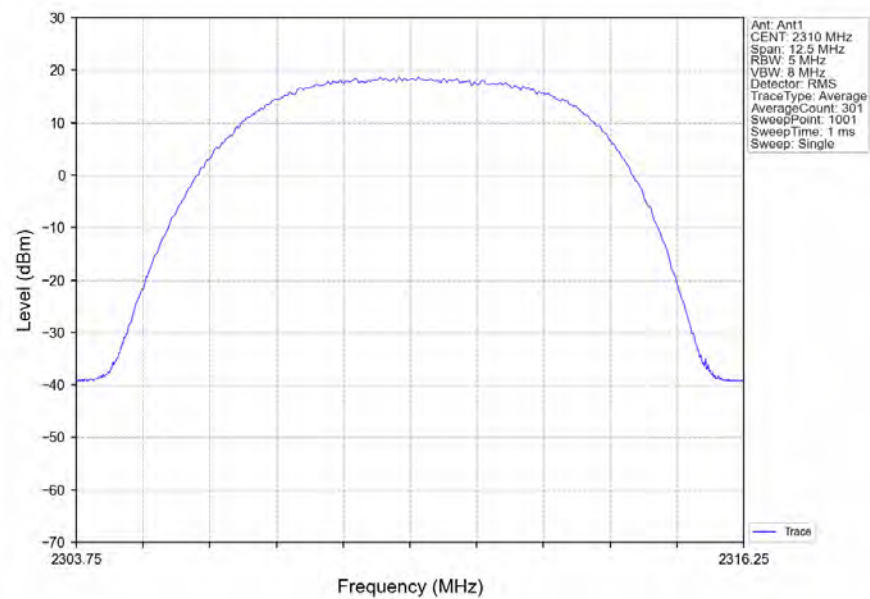
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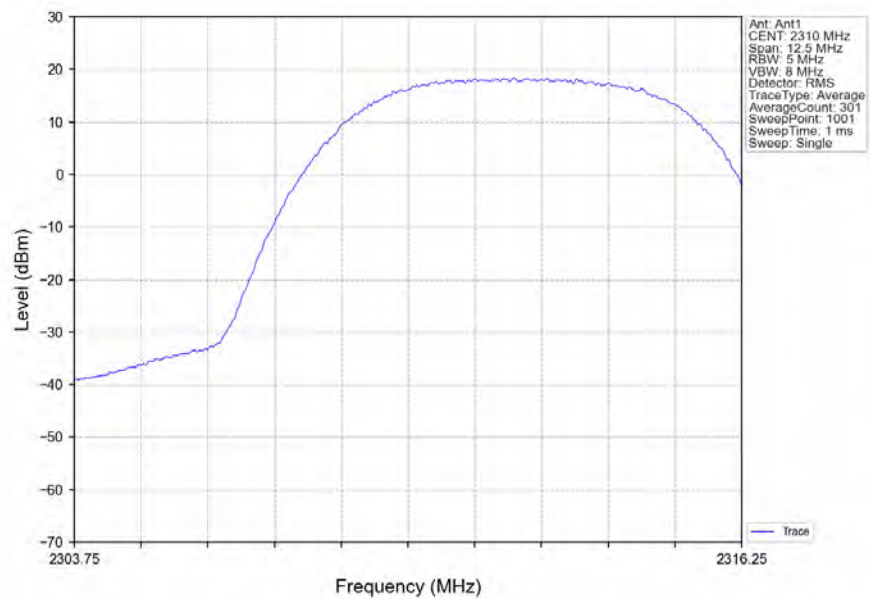
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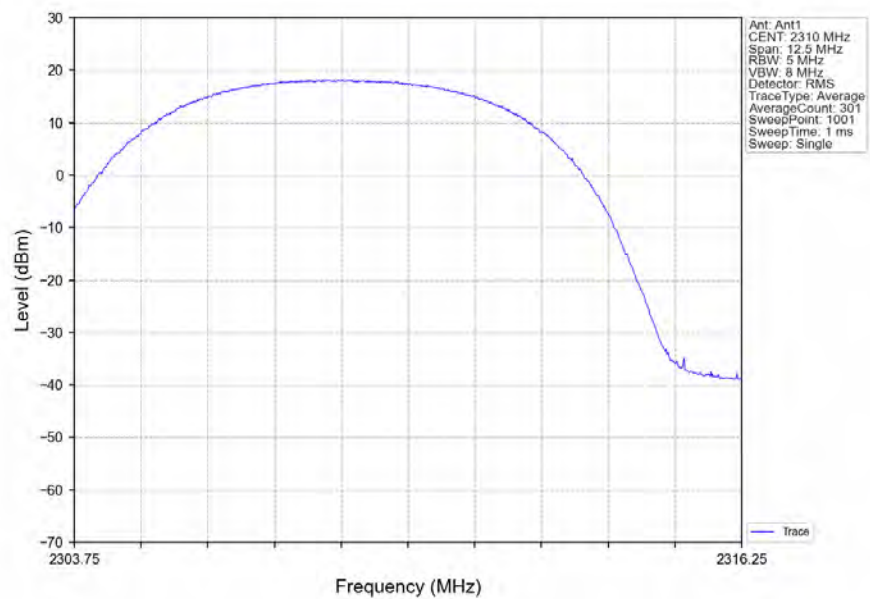
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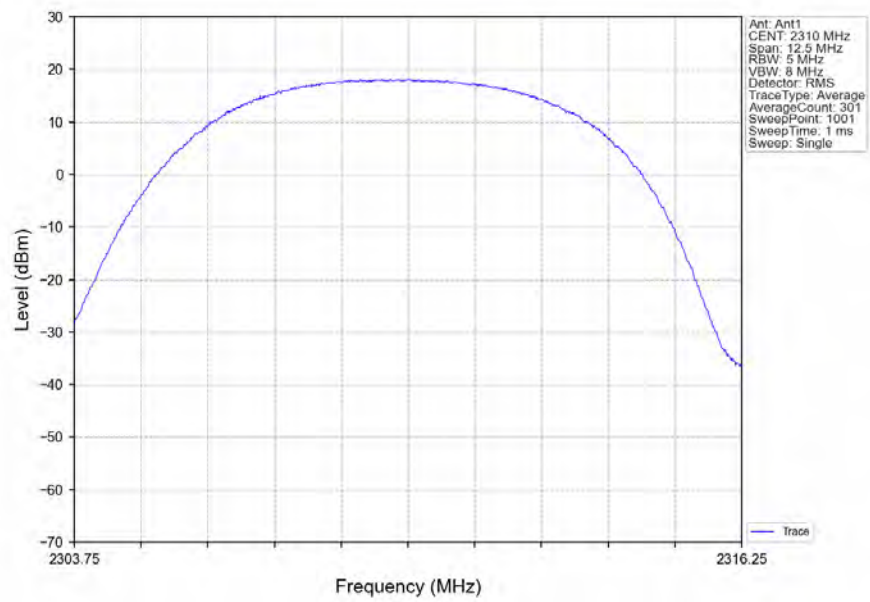
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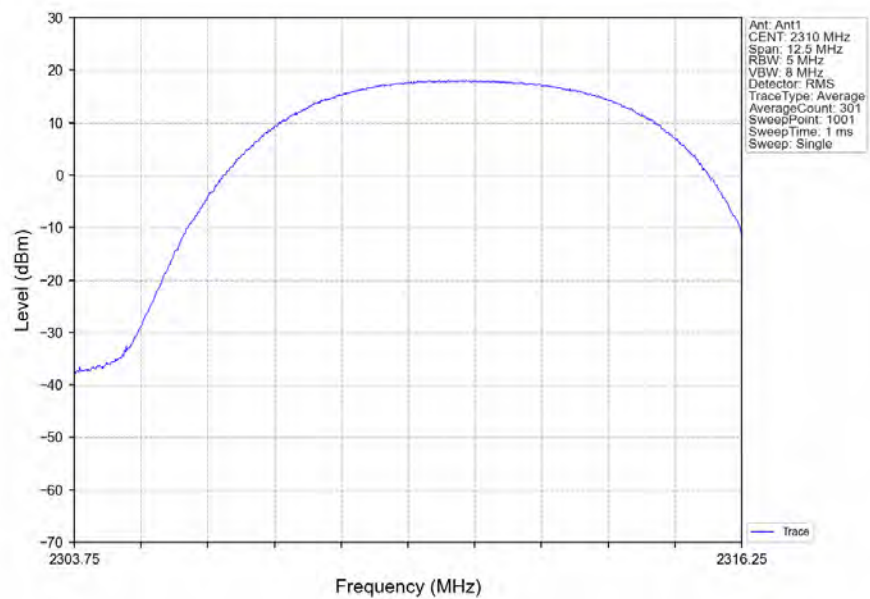
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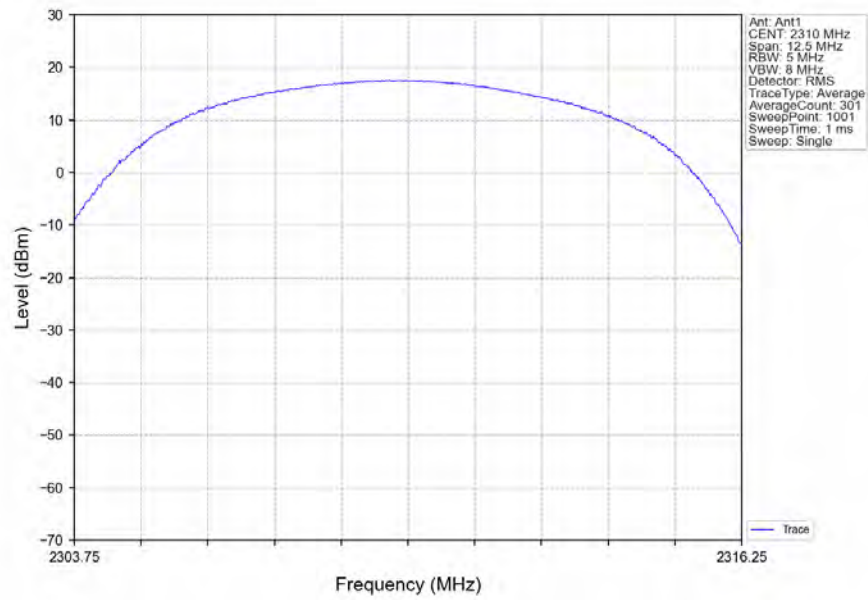
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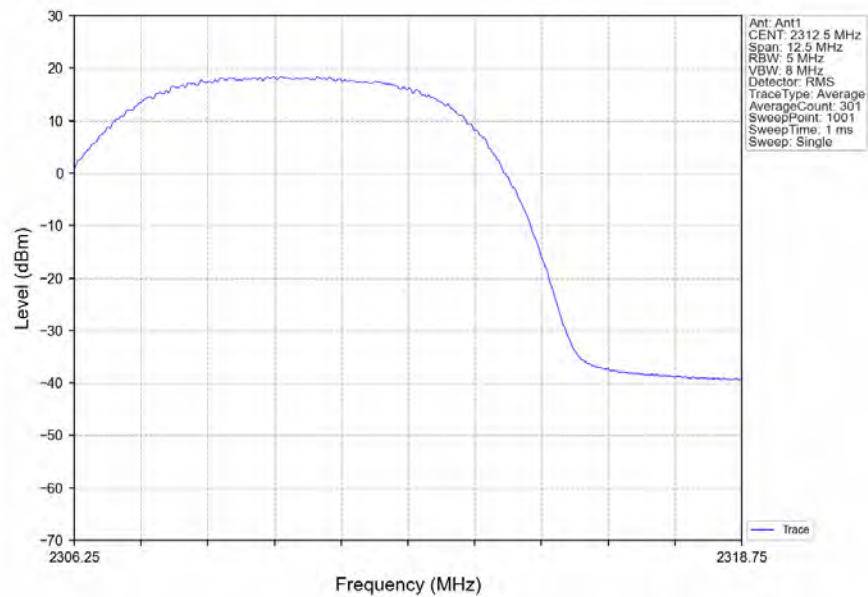
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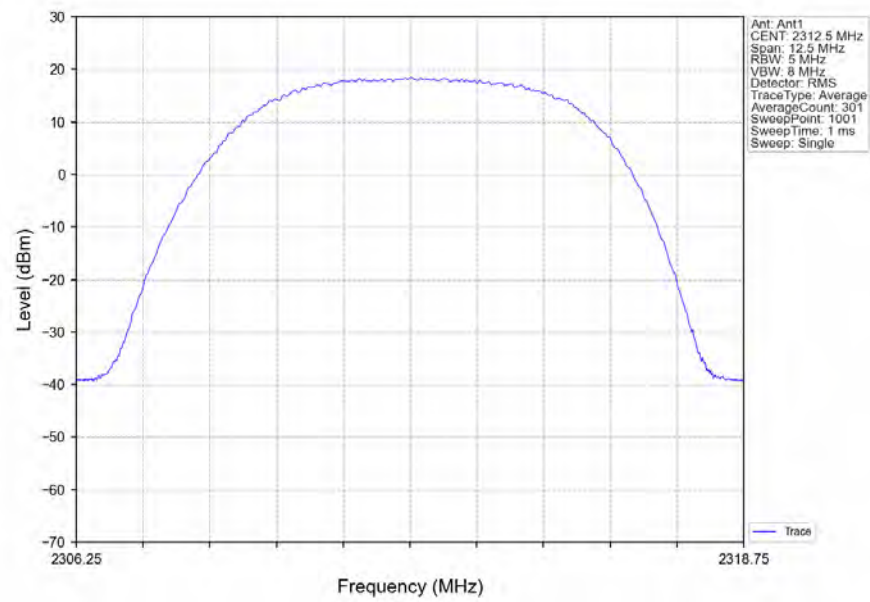
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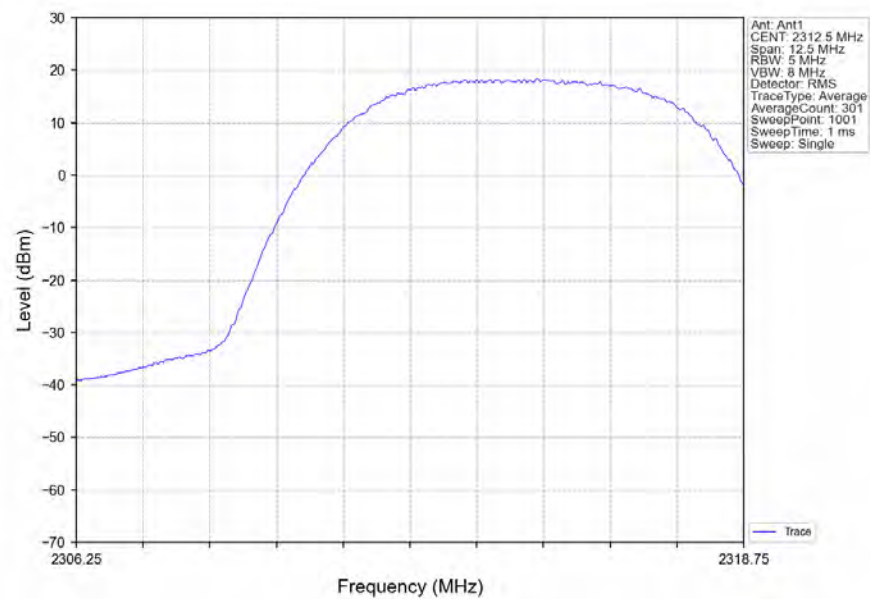
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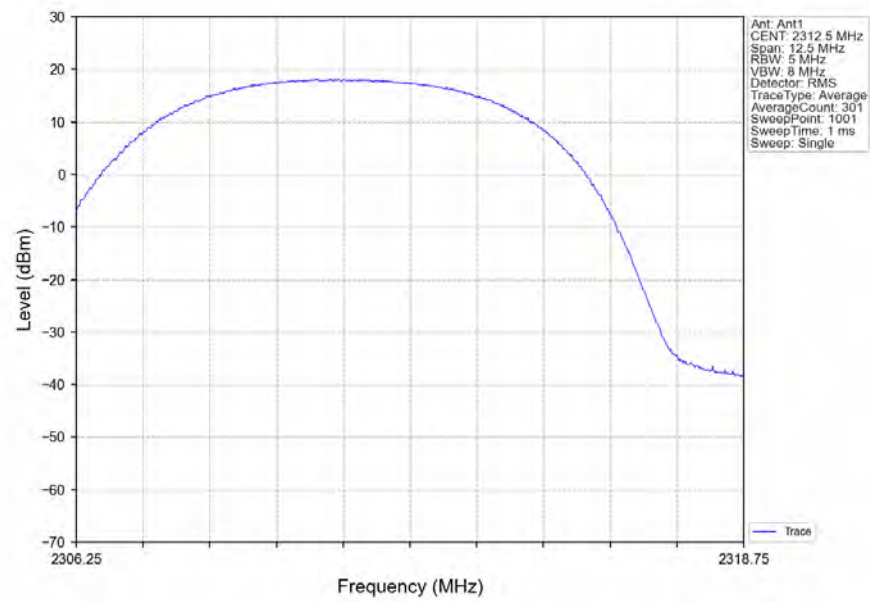
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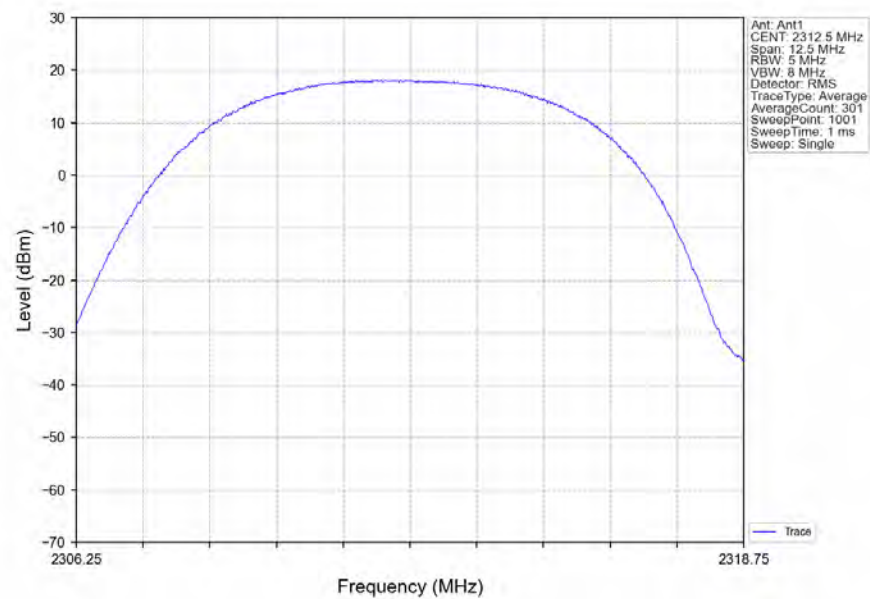
Band30_5MHz_256QAM_HCH_2312.5MHz_RB_1_24_NTNV



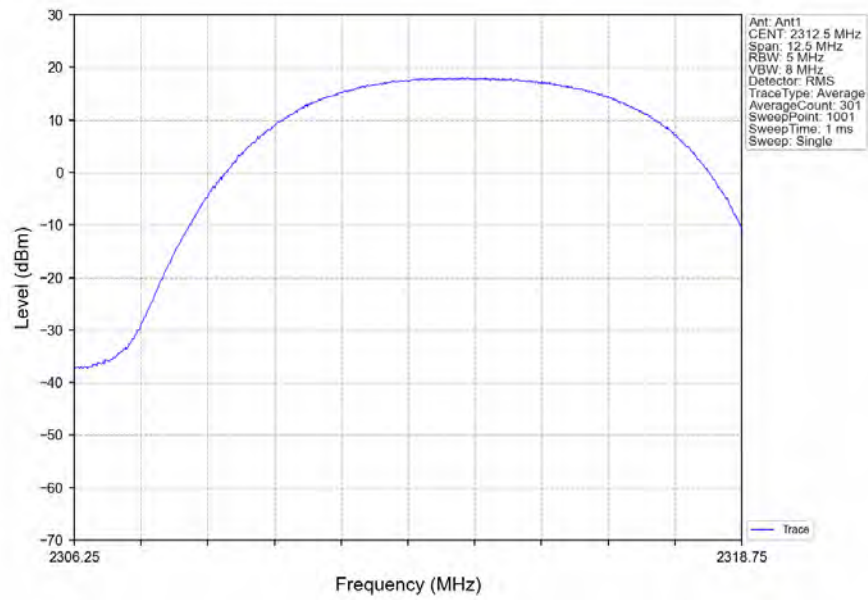
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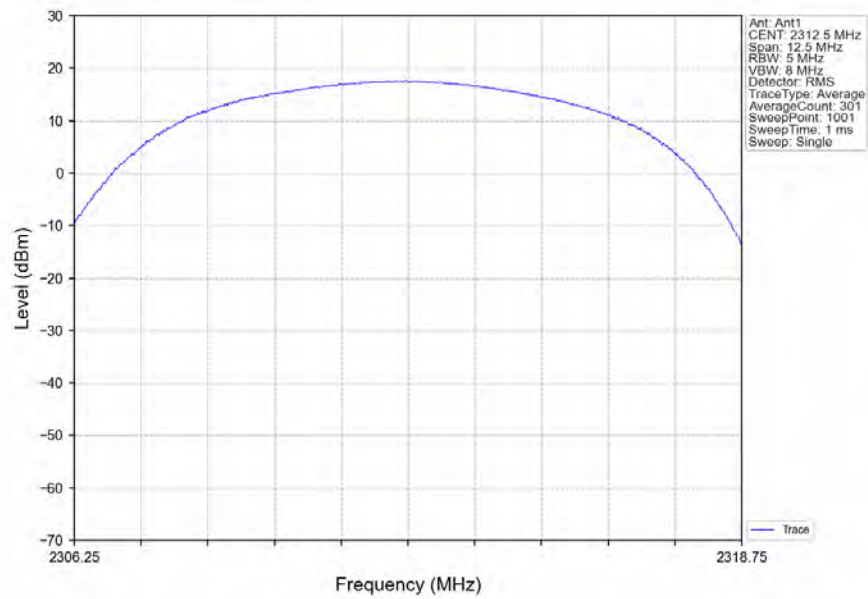
Band30_5MHz_256QAM_HCH_2312.5MHz_RB_12_6_NTNV



Band30 5MHz 256QAM HCH 2312.5MHz RB 12 13 NTN



Band30_5MHz_256QAM_HCH_2312.5MHz_RB_25_0 NTN



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	23.21	0.30	23.51	<=23.98	Pass
			25	23.23	0.30	23.53	<=23.98	Pass
			49	23.09	0.30	23.39	<=23.98	Pass
		25	0	22.28	0.30	22.58	<=23.98	Pass
			13	22.20	0.30	22.50	<=23.98	Pass
			25	22.14	0.30	22.44	<=23.98	Pass
		50	0	22.14	0.30	22.44	<=23.98	Pass
16QAM	2310	1	0	22.47	0.30	22.77	<=23.98	Pass
			25	22.37	0.30	22.67	<=23.98	Pass
			49	22.22	0.30	22.52	<=23.98	Pass
		25	0	21.28	0.30	21.58	<=23.98	Pass
			13	21.21	0.30	21.51	<=23.98	Pass
			25	21.14	0.30	21.44	<=23.98	Pass
		50	0	21.18	0.30	21.48	<=23.98	Pass
64QAM	2310	1	0	21.40	0.30	21.70	<=23.98	Pass
			25	21.43	0.30	21.73	<=23.98	Pass
			49	21.18	0.30	21.48	<=23.98	Pass
		25	0	20.24	0.30	20.54	<=23.98	Pass
			13	20.22	0.30	20.52	<=23.98	Pass
			25	20.12	0.30	20.42	<=23.98	Pass
		50	0	20.17	0.30	20.47	<=23.98	Pass
256QAM	2310	1	0	18.43	0.30	18.73	<=23.98	Pass
			25	18.29	0.30	18.59	<=23.98	Pass
			49	18.18	0.30	18.48	<=23.98	Pass
		25	0	18.27	0.30	18.57	<=23.98	Pass
			13	18.19	0.30	18.49	<=23.98	Pass
			25	18.14	0.30	18.44	<=23.98	Pass
		50	0	18.16	0.30	18.46	<=23.98	Pass

Note1: EIRP=Conducted Power+Antenna Gain

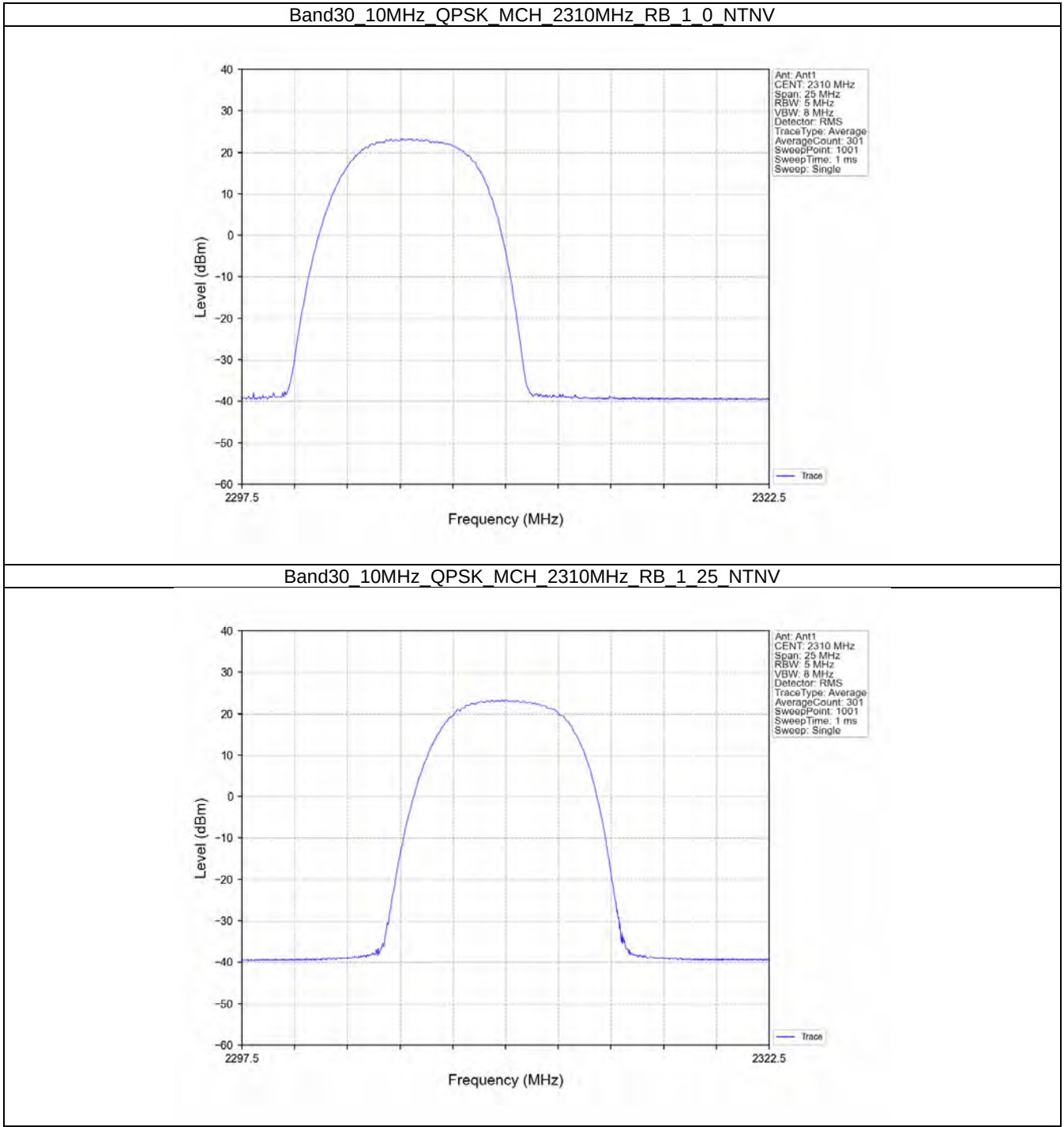
1.4 B30_10MHz_EIRP/5MHz

1.4.1 Test Result

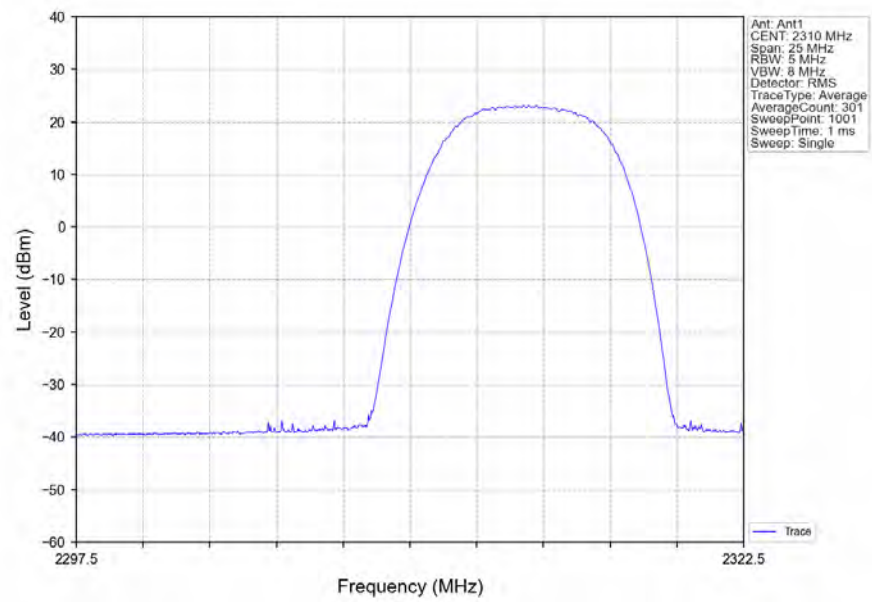
Band: 30 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/5MHz (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	23.26	0.30	23.56	<=23.98	Pass
			25	23.31	0.30	23.61	<=23.98	Pass
			49	23.12	0.30	23.42	<=23.98	Pass
		25	0	21.61	0.30	21.91	<=23.98	Pass
			13	21.52	0.30	21.82	<=23.98	Pass
			25	21.52	0.30	21.82	<=23.98	Pass
		50	0	19.64	0.30	19.94	<=23.98	Pass

16QAM	2310	1	0	22.62	0.30	22.92	<=23.98	Pass
			25	22.53	0.30	22.83	<=23.98	Pass
			49	22.51	0.30	22.81	<=23.98	Pass
		25	0	20.75	0.30	21.05	<=23.98	Pass
			13	20.68	0.30	20.98	<=23.98	Pass
			25	20.58	0.30	20.88	<=23.98	Pass
		50	0	18.71	0.30	19.01	<=23.98	Pass
64QAM	2310	1	0	21.59	0.30	21.89	<=23.98	Pass
			25	21.55	0.30	21.85	<=23.98	Pass
			49	21.42	0.30	21.72	<=23.98	Pass
		25	0	19.75	0.30	20.05	<=23.98	Pass
			13	19.66	0.30	19.96	<=23.98	Pass
			25	19.59	0.30	19.89	<=23.98	Pass
		50	0	17.75	0.30	18.05	<=23.98	Pass
256QAM	2310	1	0	18.58	0.30	18.88	<=23.98	Pass
			25	18.55	0.30	18.85	<=23.98	Pass
			49	18.36	0.30	18.66	<=23.98	Pass
		25	0	17.69	0.30	17.99	<=23.98	Pass
			13	17.59	0.30	17.89	<=23.98	Pass
			25	17.62	0.30	17.92	<=23.98	Pass
		50	0	15.78	0.30	16.08	<=23.98	Pass
Note1: EIRP/5MHz=Conducted Power+Antenna Gain-2.15								

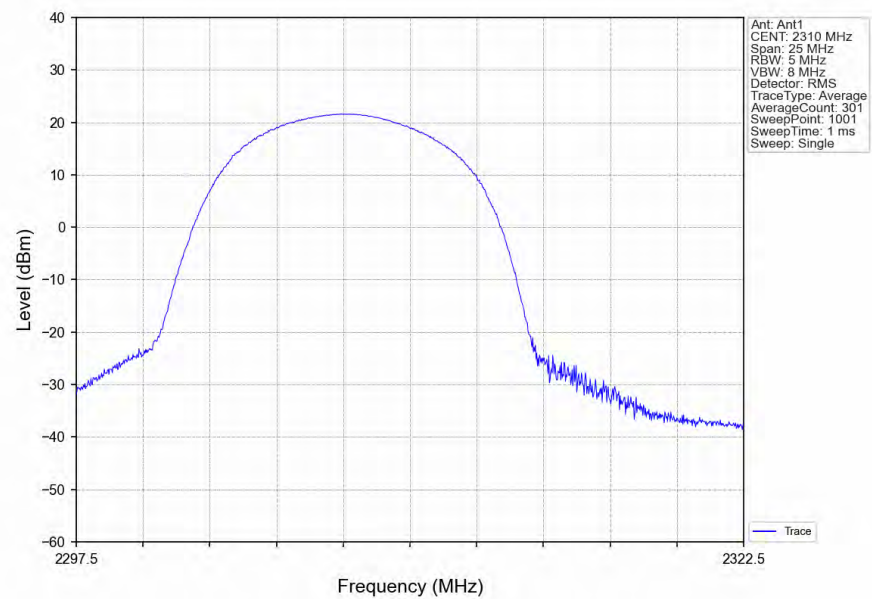
1.4.2 Test Graph



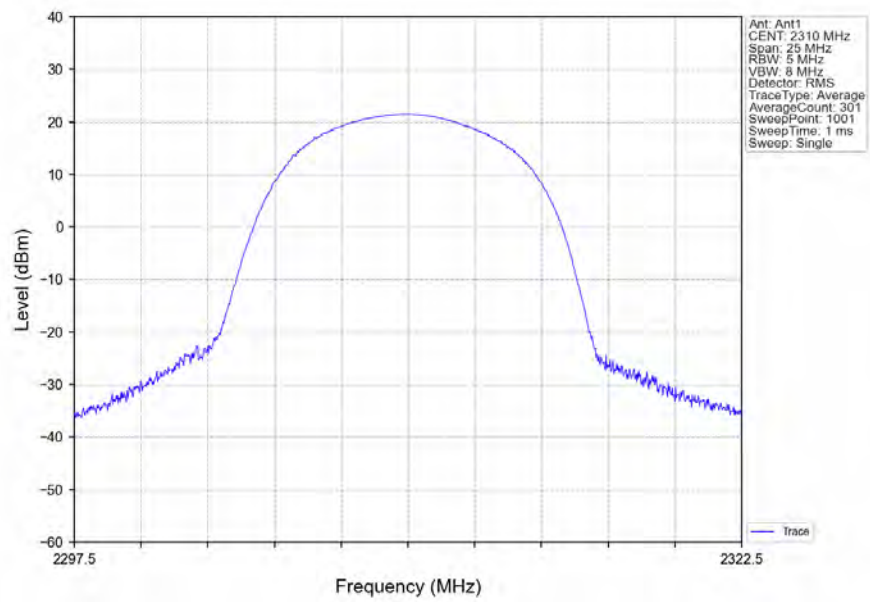
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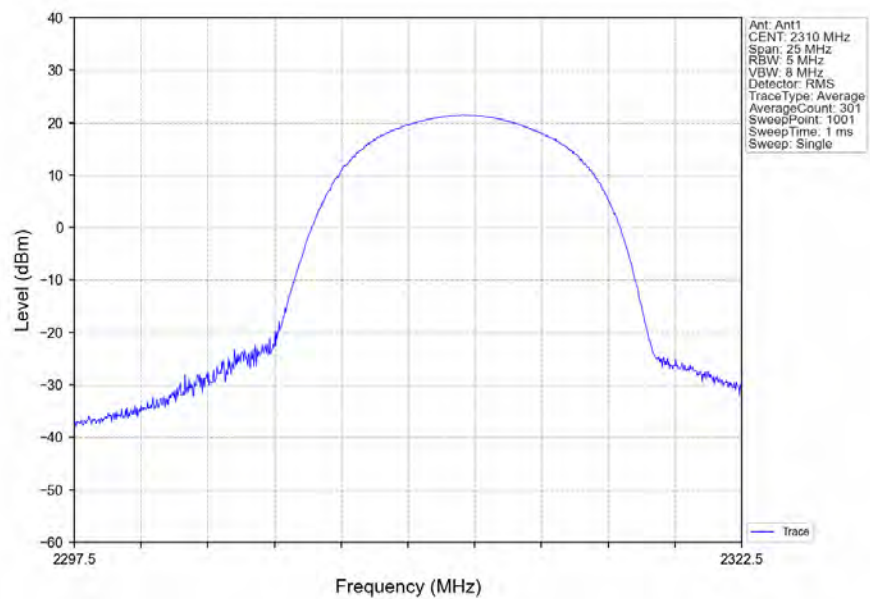
Band30_10MHz_QPSK_MCH_2310MHz_RB_25_0_NTNV



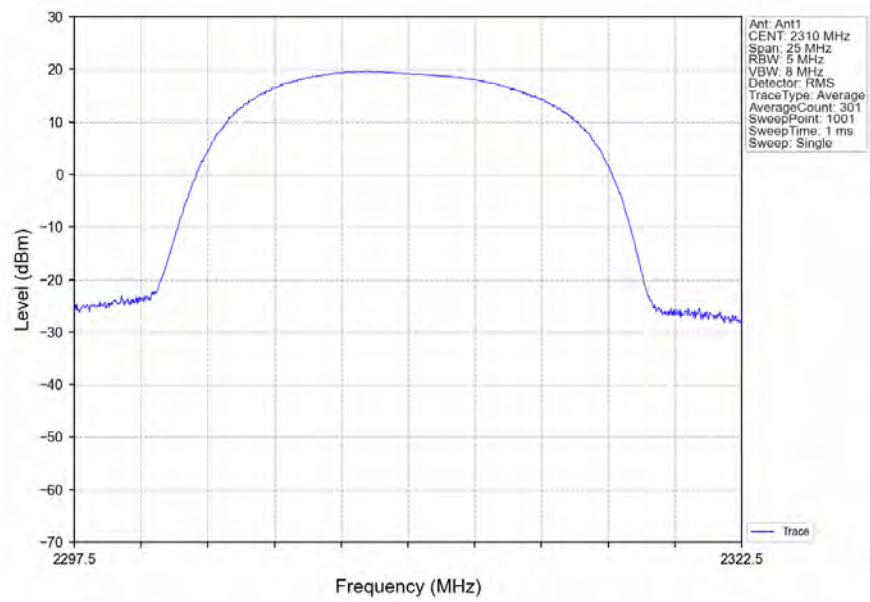
Band30 10MHz QPSK MCH 2310MHz RB 25 13 NTN



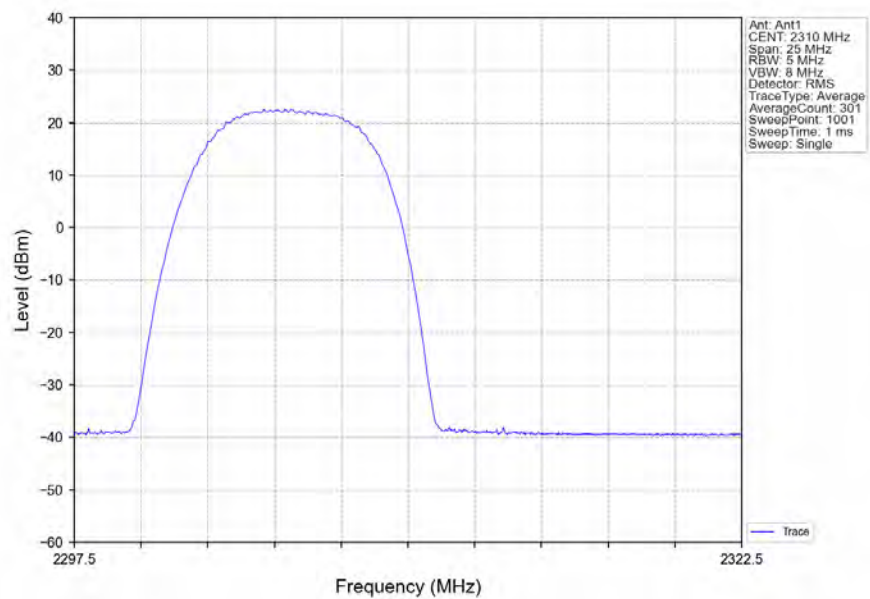
Band30_10MHz_QPSK_MCH_2310MHz_RB_25_25_NTN



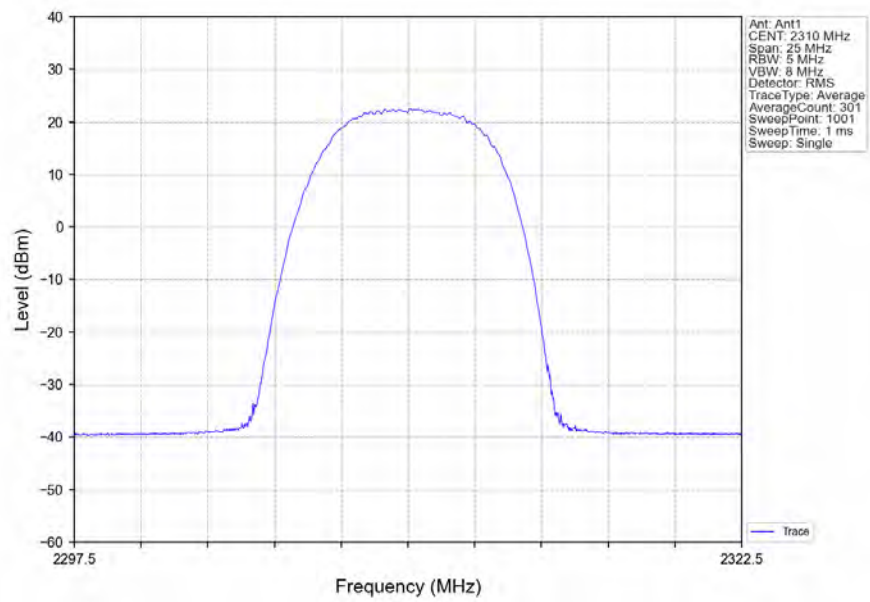
Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



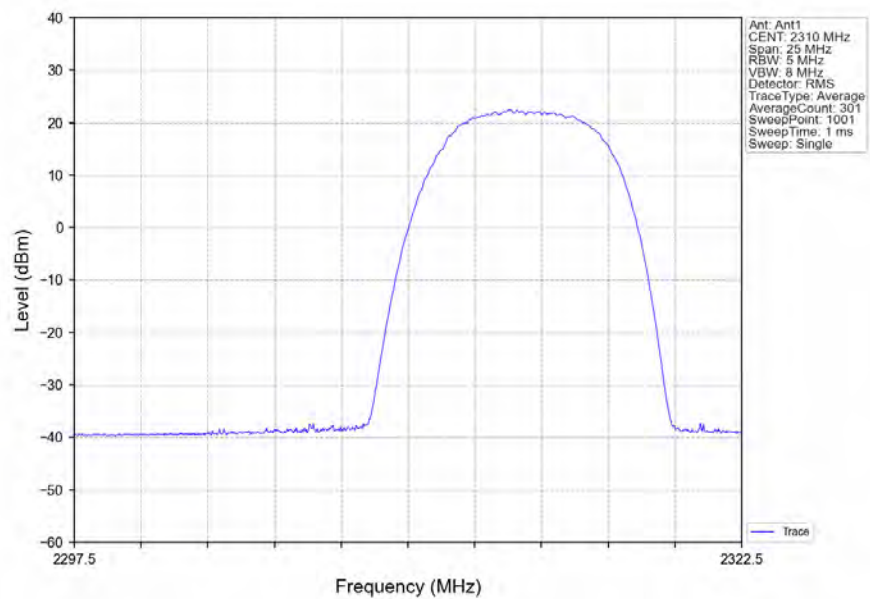
Band30_10MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV



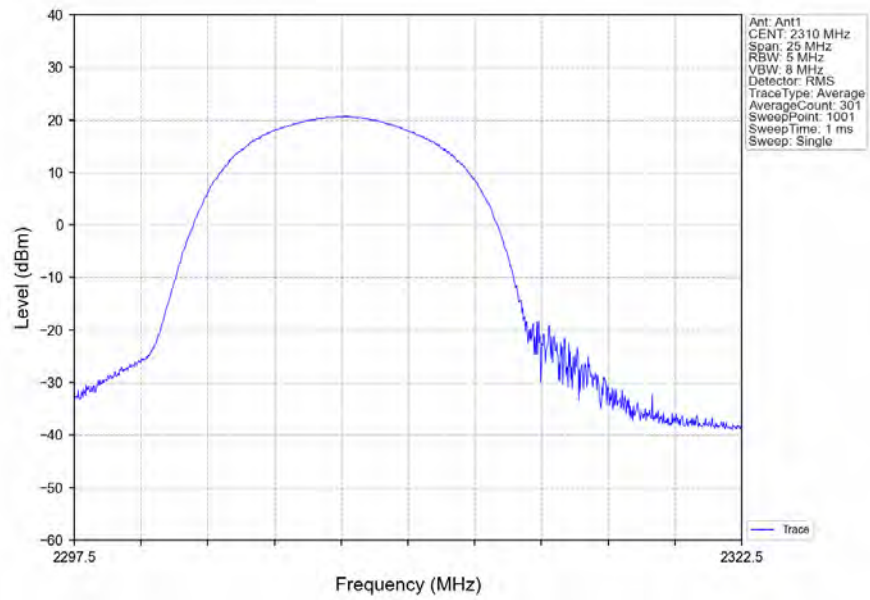
Band30_10MHz_16QAM_MCH_2310MHz_RB_1_25_NTNV



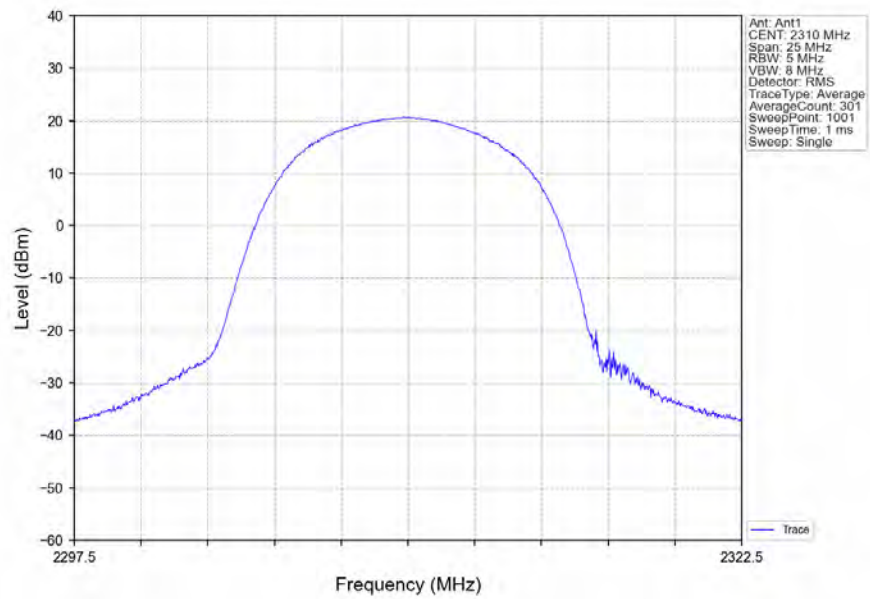
Band30_10MHz_16QAM_MCH_2310MHz_RB_1_49_NTNV



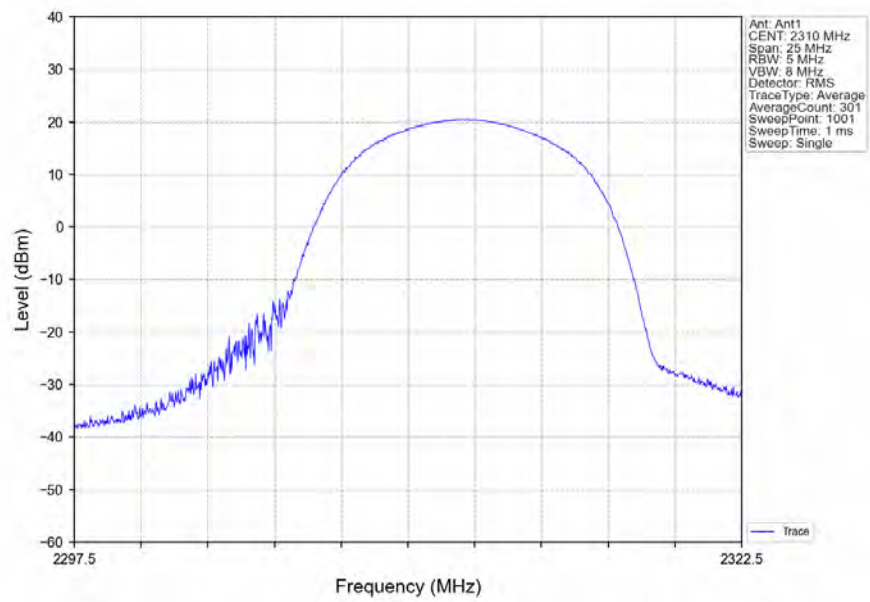
Band30_10MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



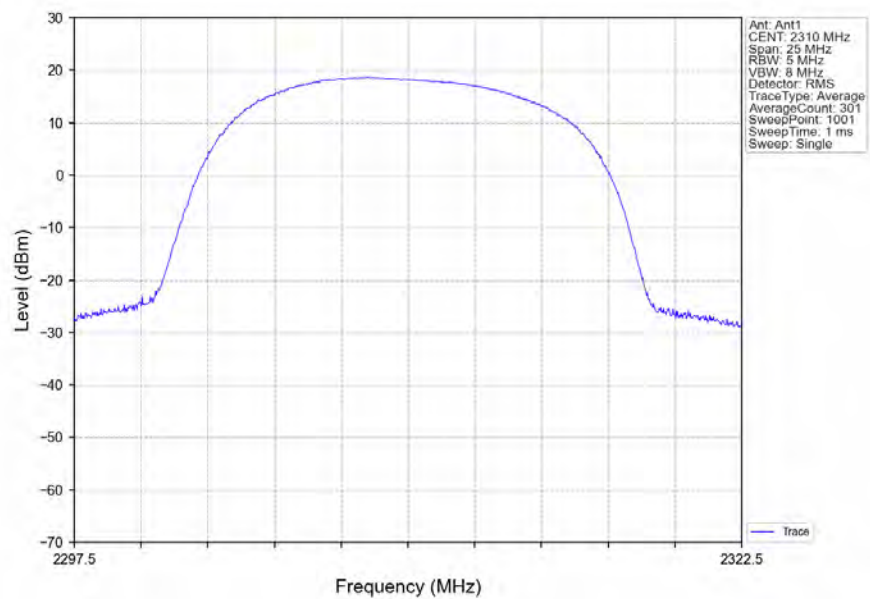
Band30_10MHz_16QAM_MCH_2310MHz_RB_25_13_NTNV



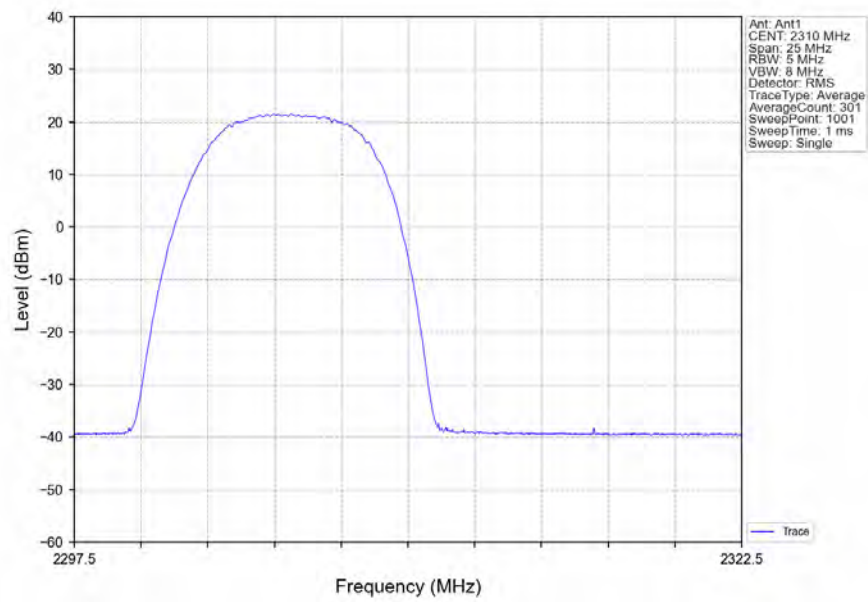
Band30_10MHz_16QAM_MCH_2310MHz_RB_25_25_NTNV



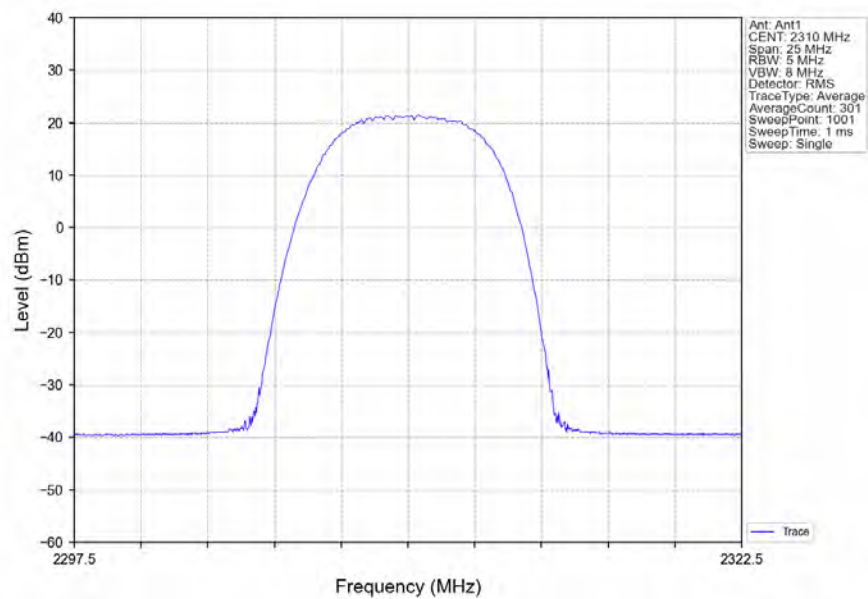
Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



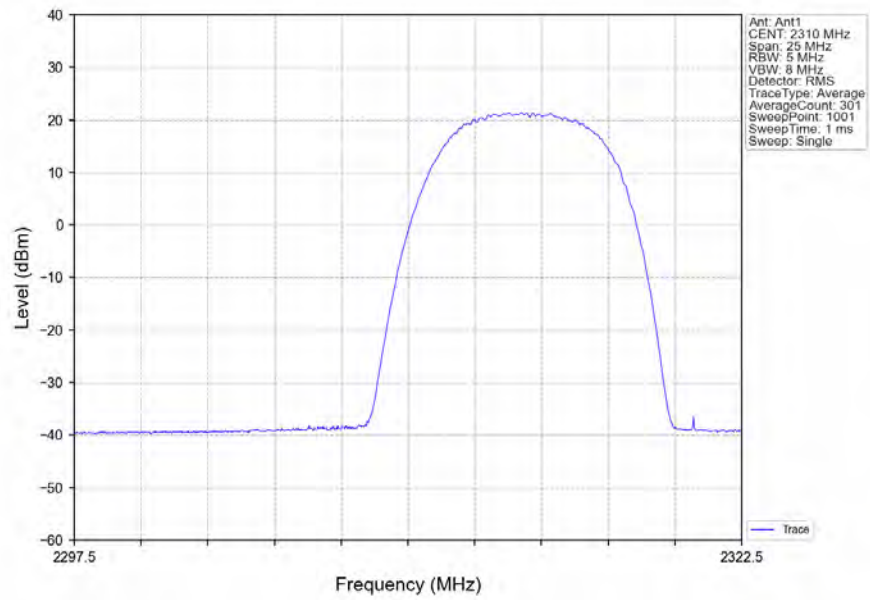
Band30_10MHz_64QAM_MCH_2310MHz_RB_1_0_NTNV



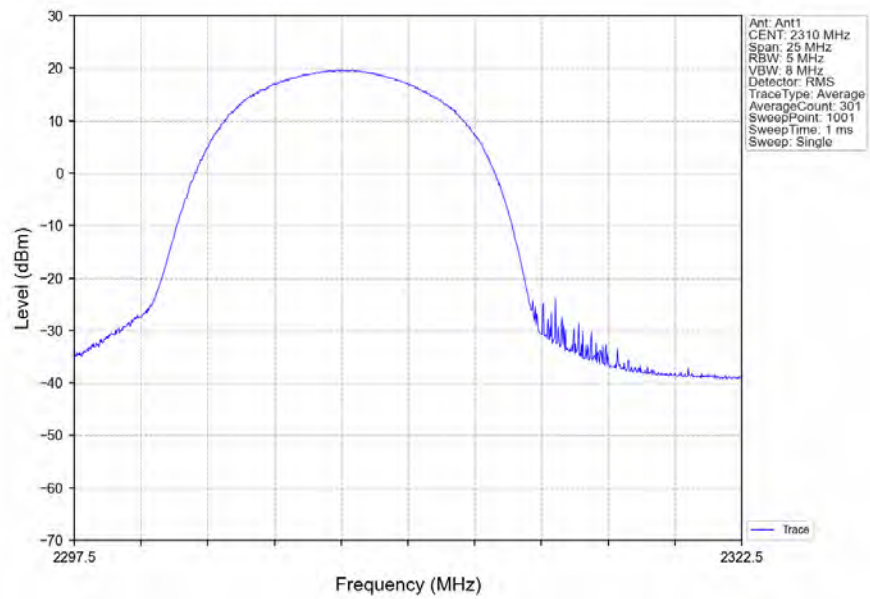
Band30_10MHz_64QAM_MCH_2310MHz_RB_1_25_NTNV



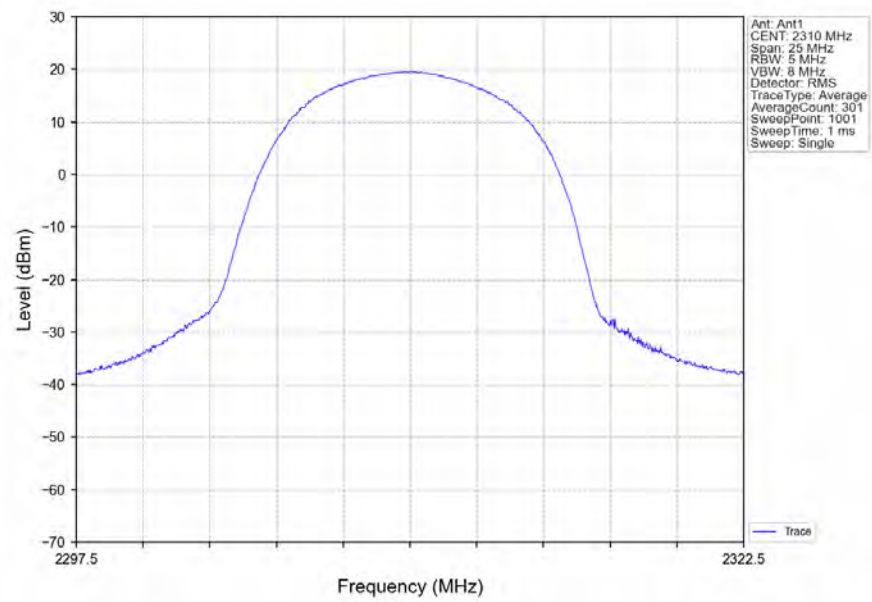
Band30_10MHz_64QAM_MCH_2310MHz_RB_1_49_NTNV



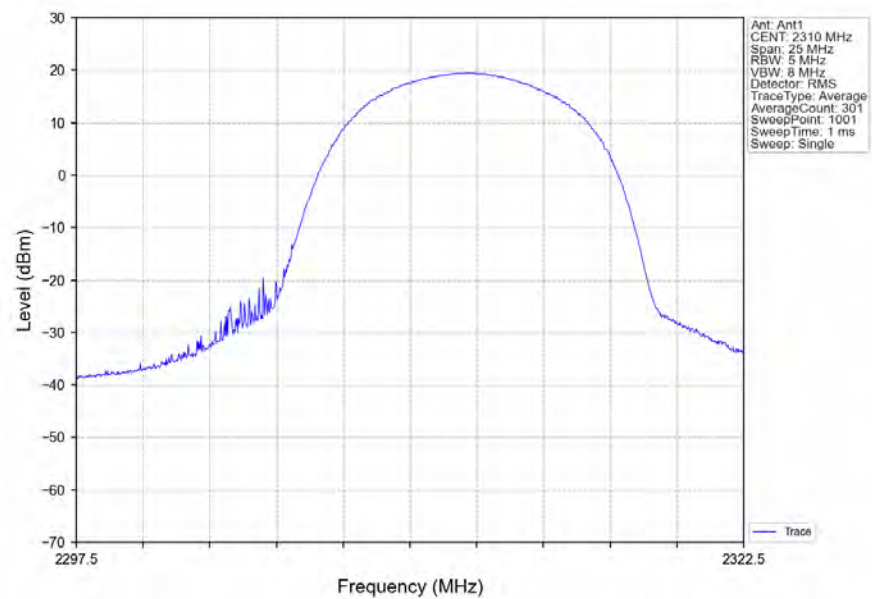
Band30_10MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



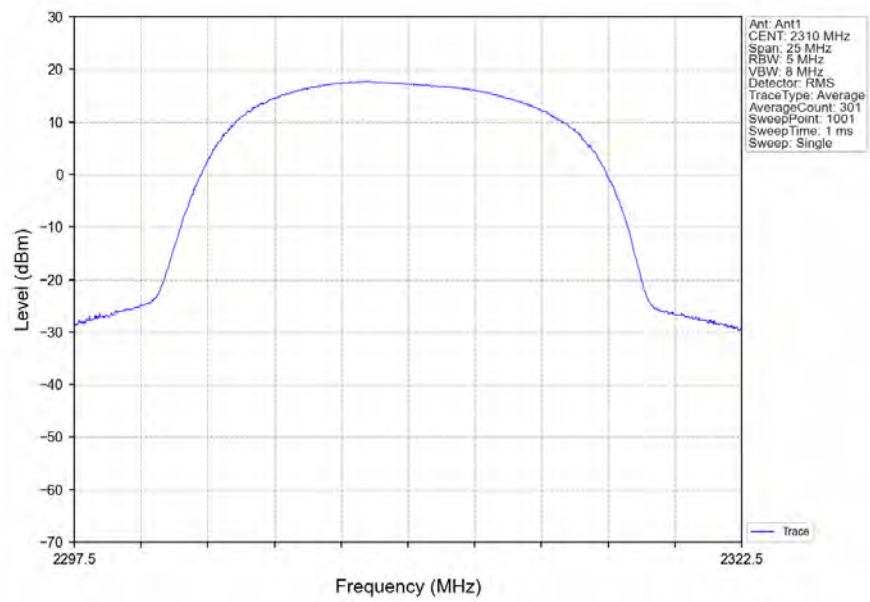
Band30_10MHz_64QAM_MCH_2310MHz_RB_25_13_NTNV



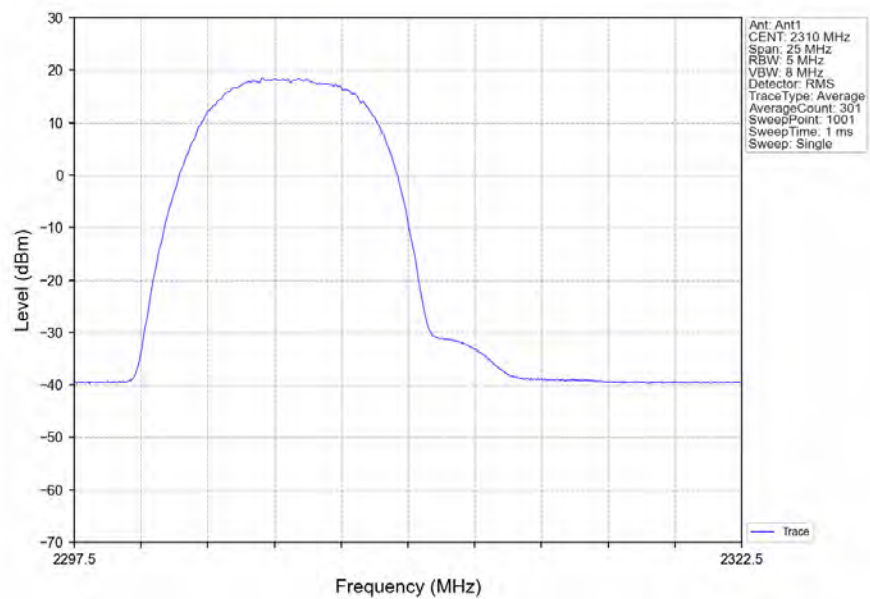
Band30_10MHz_64QAM_MCH_2310MHz_RB_25_25_NTNV



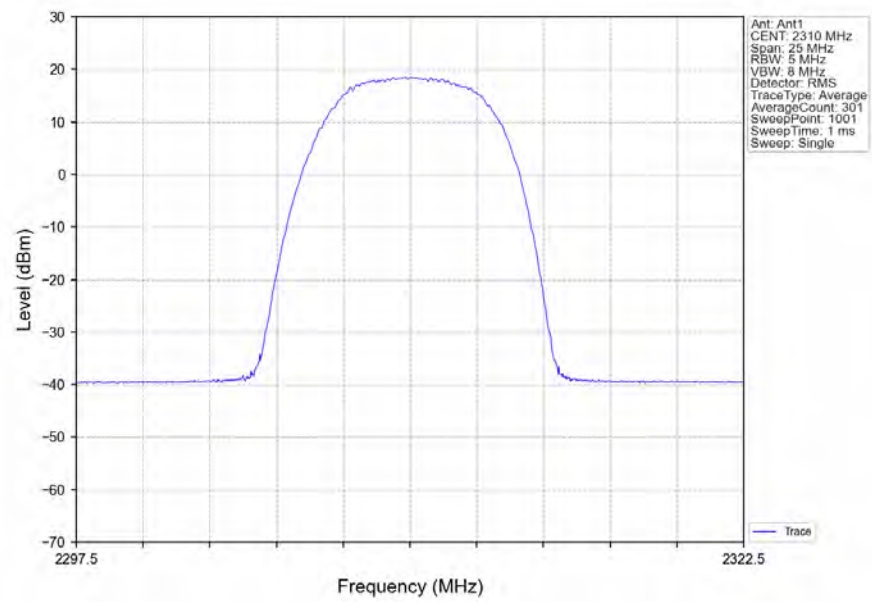
Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



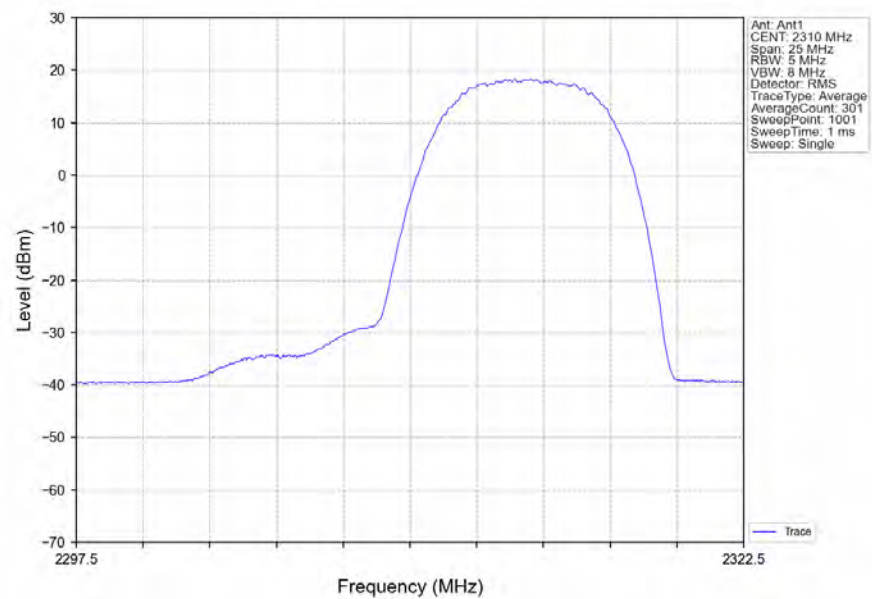
Band30_10MHz_256QAM_MCH_2310MHz_RB_1_0_NTNV



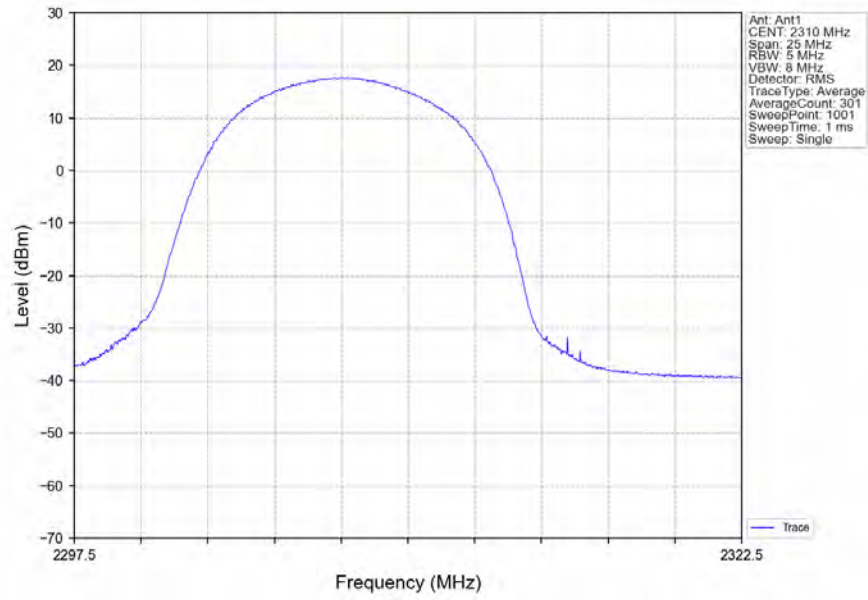
Band30_10MHz_256QAM_MCH_2310MHz_RB_1_25_NTNV



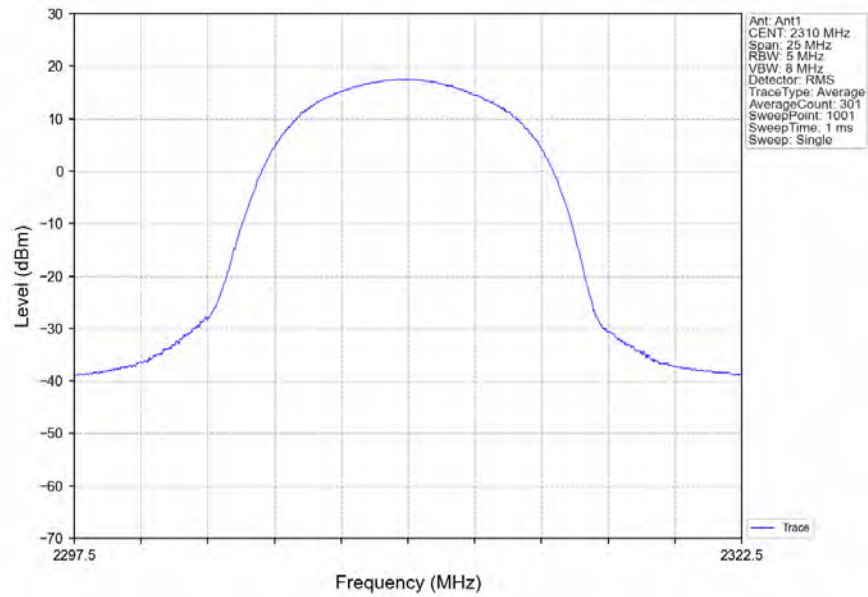
Band30_10MHz_256QAM_MCH_2310MHz_RB_1_49_NTNV



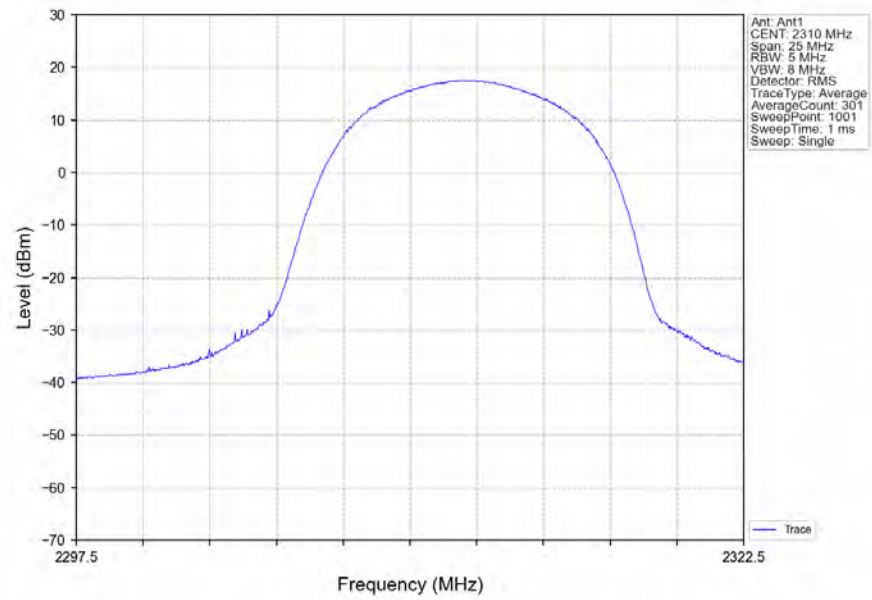
Band30_10MHz_256QAM_MCH_2310MHz_RB_25_0_NTNV



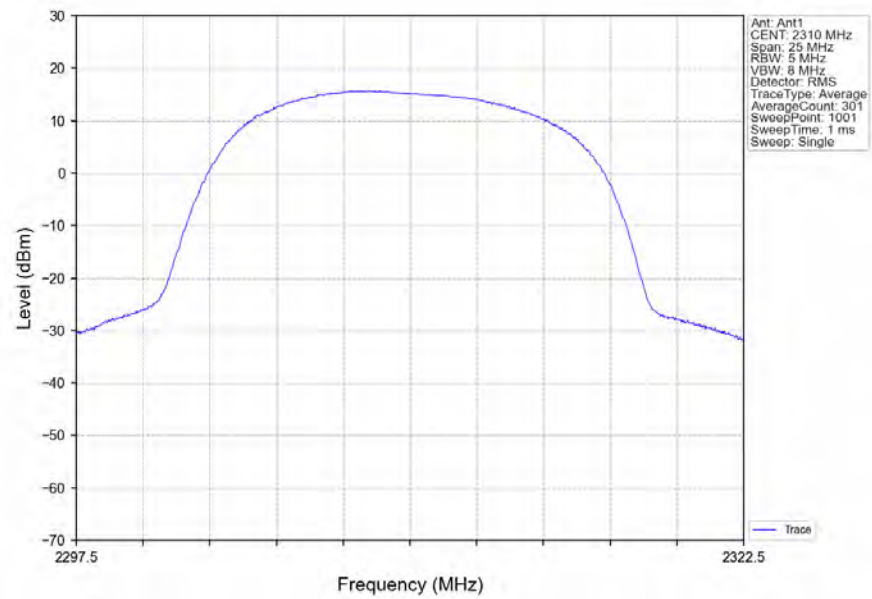
Band30_10MHz_256QAM_MCH_2310MHz_RB_25_13_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_25_25_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_50_0_NTNV



2. Frequency Stability

2.1 B30_10MHz

2.1.1 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	3.65	0.251	0.0001	-2.5 to 2.5	Pass
					3.87	-1.054	-0.0005	-2.5 to 2.5	Pass
					4.45	0.703	0.0003	-2.5 to 2.5	Pass
				-30	3.87	1.776	0.0008	-2.5 to 2.5	Pass
				-20	3.87	1.349	0.0006	-2.5 to 2.5	Pass
				-10	3.87	-1.090	-0.0005	-2.5 to 2.5	Pass
				0	3.87	0.084	0.0000	-2.5 to 2.5	Pass
				10	3.87	0.334	0.0001	-2.5 to 2.5	Pass
				30	3.87	-1.473	-0.0006	-2.5 to 2.5	Pass
				40	3.87	0.272	0.0001	-2.5 to 2.5	Pass
16QAM	2310	50	0	20	3.65	1.319	0.0006	-2.5 to 2.5	Pass
					3.87	-0.295	-0.0001	-2.5 to 2.5	Pass
					4.45	-0.817	-0.0004	-2.5 to 2.5	Pass
				-30	3.87	-0.072	0.0000	-2.5 to 2.5	Pass
				-20	3.87	0.332	0.0001	-2.5 to 2.5	Pass
				-10	3.87	-0.483	-0.0002	-2.5 to 2.5	Pass
				0	3.87	-1.197	-0.0005	-2.5 to 2.5	Pass
				10	3.87	-0.507	-0.0002	-2.5 to 2.5	Pass
				30	3.87	0.039	0.0000	-2.5 to 2.5	Pass
				40	3.87	0.413	0.0002	-2.5 to 2.5	Pass
64QAM	2310	50	0	20	3.65	-0.249	-0.0001	-2.5 to 2.5	Pass
					3.87	-1.412	-0.0006	-2.5 to 2.5	Pass
					4.45	-0.402	-0.0002	-2.5 to 2.5	Pass
				-30	3.87	0.233	0.0001	-2.5 to 2.5	Pass
				-20	3.87	-0.017	0.0000	-2.5 to 2.5	Pass
				-10	3.87	-0.124	-0.0001	-2.5 to 2.5	Pass
				0	3.87	-0.549	-0.0002	-2.5 to 2.5	Pass
				10	3.87	-0.411	-0.0002	-2.5 to 2.5	Pass
				30	3.87	-2.026	-0.0009	-2.5 to 2.5	Pass
				40	3.87	-2.068	-0.0009	-2.5 to 2.5	Pass
256QAM	2310	50	0	20	3.65	-1.005	-0.0004	-2.5 to 2.5	Pass
					3.87	1.544	0.0007	-2.5 to 2.5	Pass
					4.45	-0.845	-0.0004	-2.5 to 2.5	Pass
				-30	3.87	1.177	0.0005	-2.5 to 2.5	Pass
				-20	3.87	-0.704	-0.0003	-2.5 to 2.5	Pass
				-10	3.87	0.554	0.0002	-2.5 to 2.5	Pass
				0	3.87	0.213	0.0001	-2.5 to 2.5	Pass
				10	3.87	-1.513	-0.0007	-2.5 to 2.5	Pass
				30	3.87	-0.245	-0.0001	-2.5 to 2.5	Pass
				40	3.87	0.156	0.0001	-2.5 to 2.5	Pass
256QAM	2310	50	0	20	3.65	0.825	0.0004	-2.5 to 2.5	Pass
					3.87	0.825	0.0004	-2.5 to 2.5	Pass
					4.45	0.825	0.0004	-2.5 to 2.5	Pass
				-30	3.87	0.825	0.0004	-2.5 to 2.5	Pass
				-20	3.87	0.825	0.0004	-2.5 to 2.5	Pass
				-10	3.87	0.825	0.0004	-2.5 to 2.5	Pass
				0	3.87	0.825	0.0004	-2.5 to 2.5	Pass
				10	3.87	0.825	0.0004	-2.5 to 2.5	Pass
				30	3.87	0.825	0.0004	-2.5 to 2.5	Pass
				40	3.87	0.825	0.0004	-2.5 to 2.5	Pass

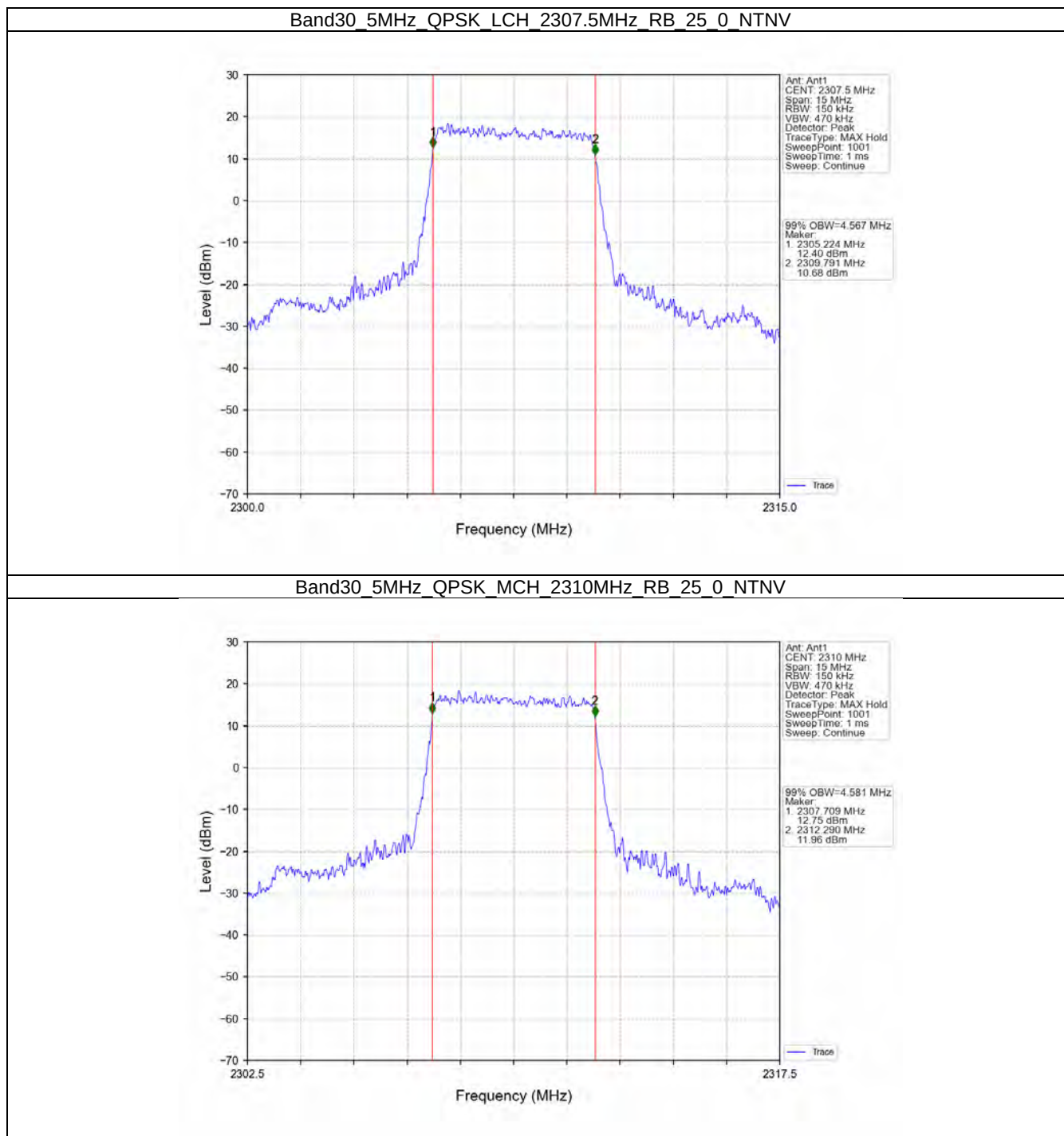
3. 99% & 26dB Bandwidth

3.1 Band30_OBW

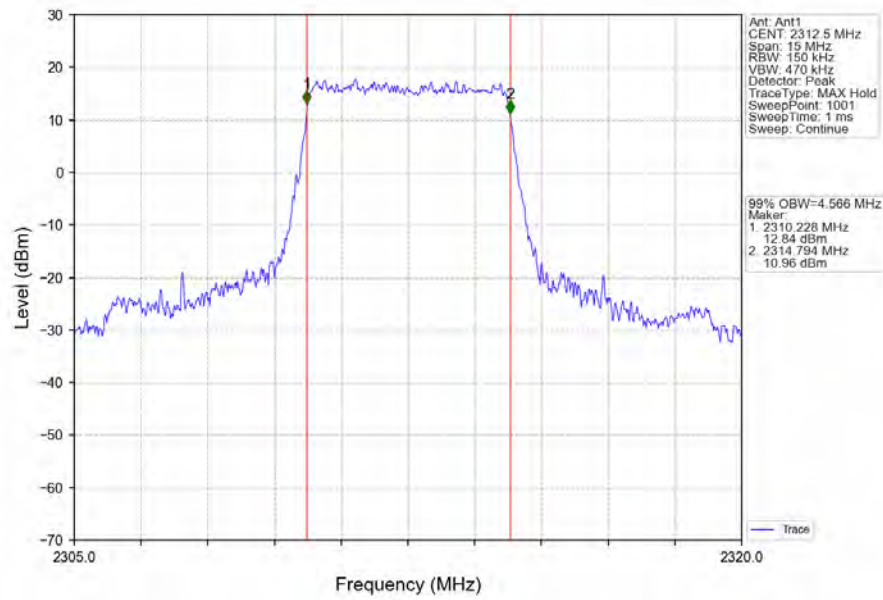
3.1.1 Test Result

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	4.567	/	Pass
		2310	25	0	4.581	/	Pass
		2312.5	25	0	4.566	/	Pass
	16QAM	2307.5	25	0	4.555	/	Pass
		2310	25	0	4.588	/	Pass
		2312.5	25	0	4.577	/	Pass
	64QAM	2307.5	25	0	4.578	/	Pass
		2310	25	0	4.575	/	Pass
		2312.5	25	0	4.577	/	Pass
	256QAM	2307.5	25	0	4.557	/	Pass
		2310	25	0	4.580	/	Pass
		2312.5	25	0	4.563	/	Pass
10	QPSK	2310	50	0	9.086	/	Pass
	16QAM	2310	50	0	9.132	/	Pass
	64QAM	2310	50	0	9.074	/	Pass
	256QAM	2310	50	0	9.073	/	Pass

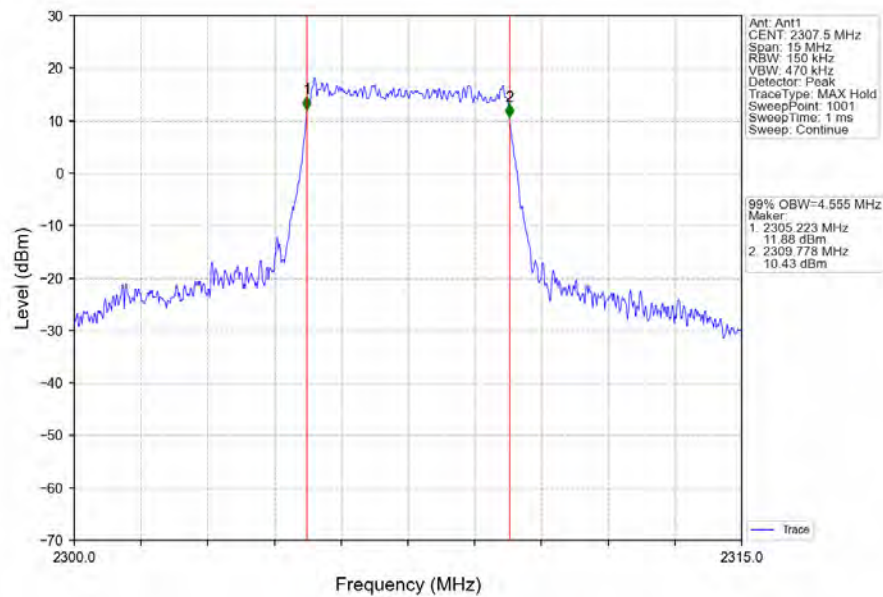
3.1.2 Test Graph



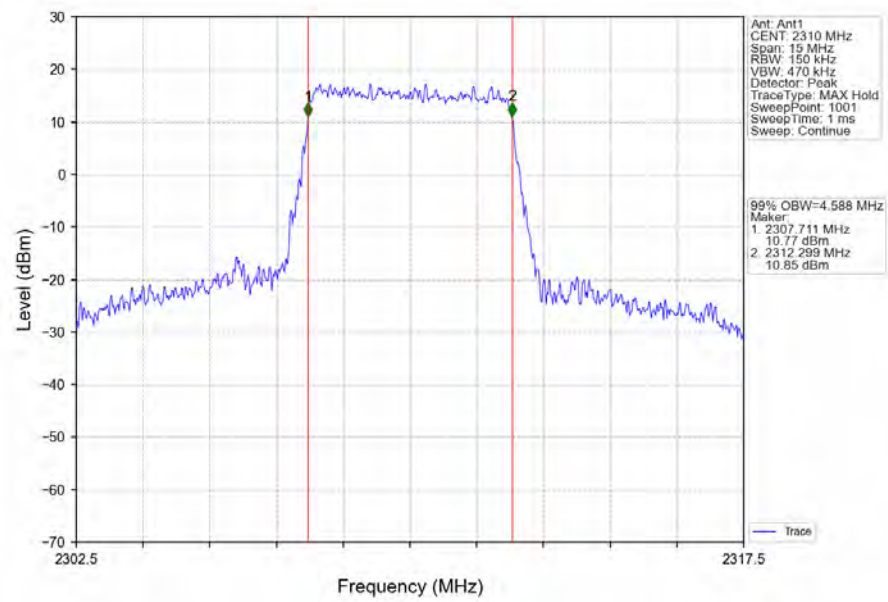
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



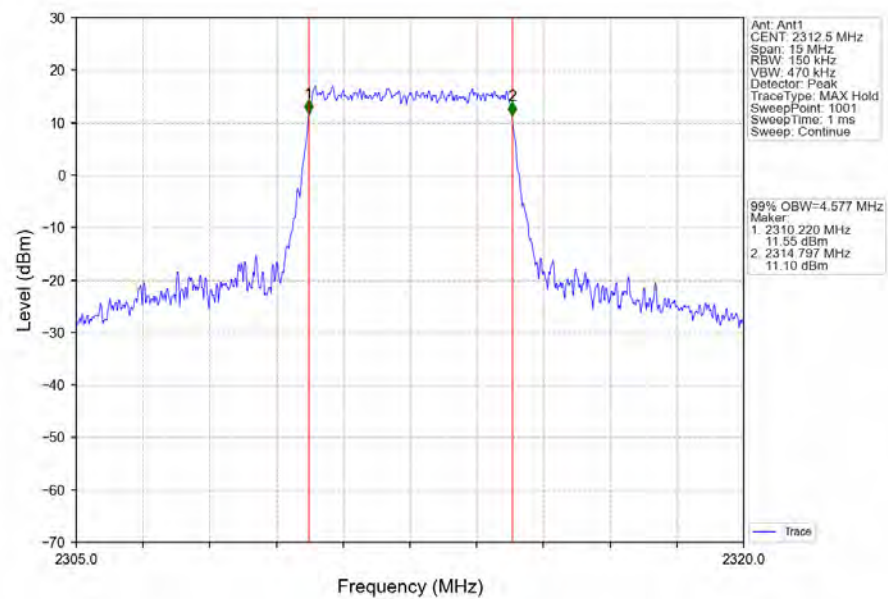
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



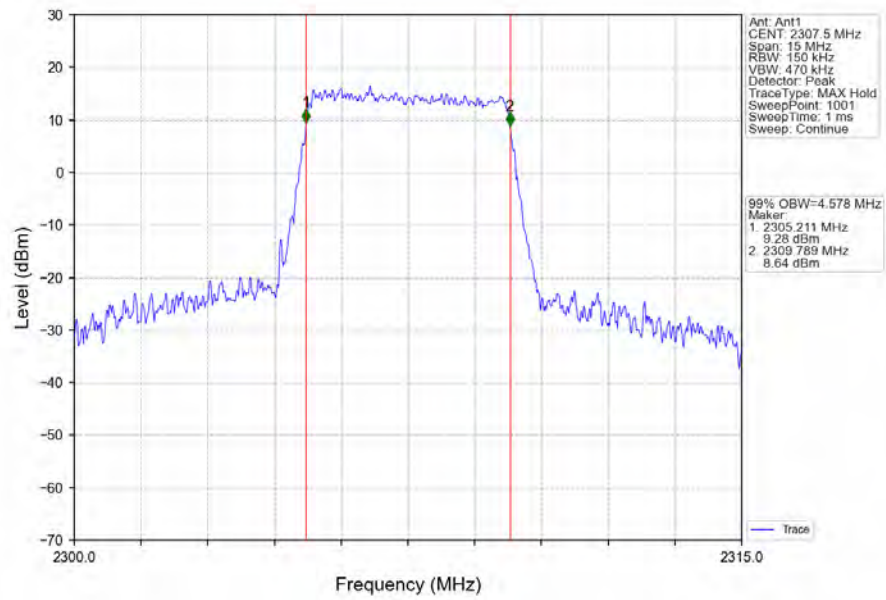
Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



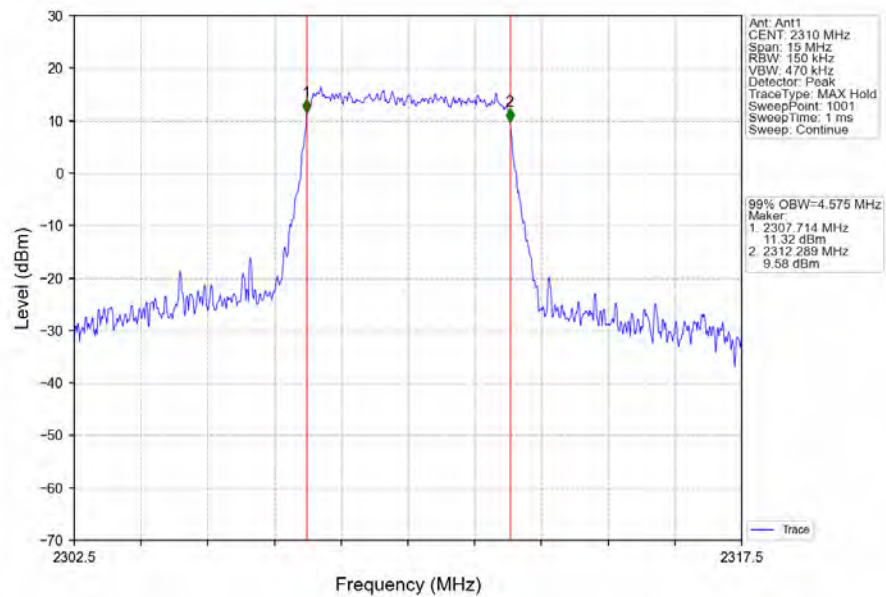
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



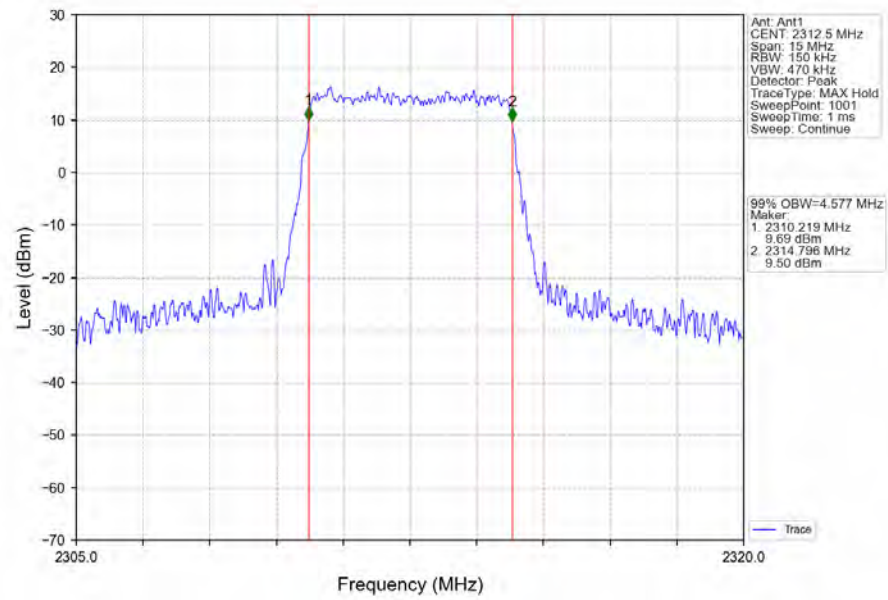
Band30_5MHz_64QAM_LCH_2307.5MHz_RB_25_0_NTNV



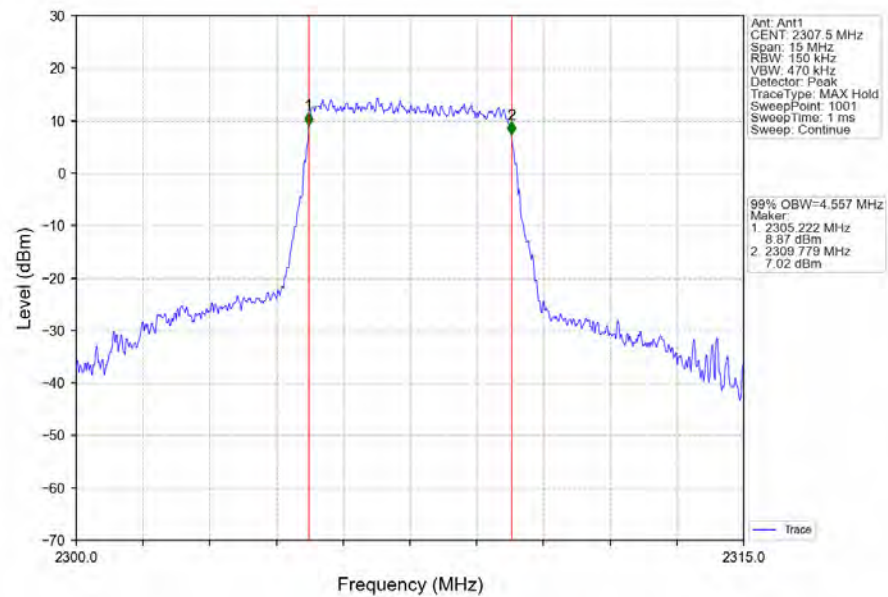
Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



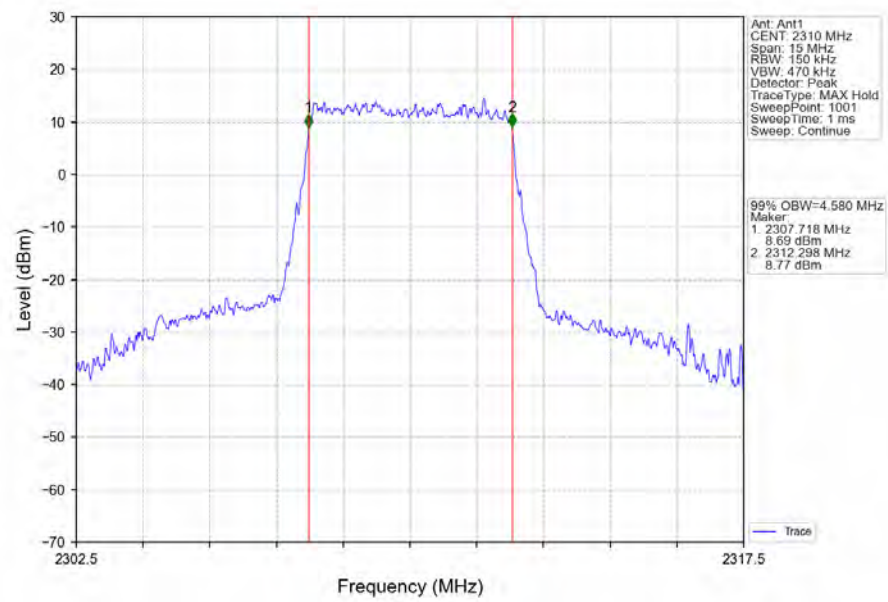
Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV



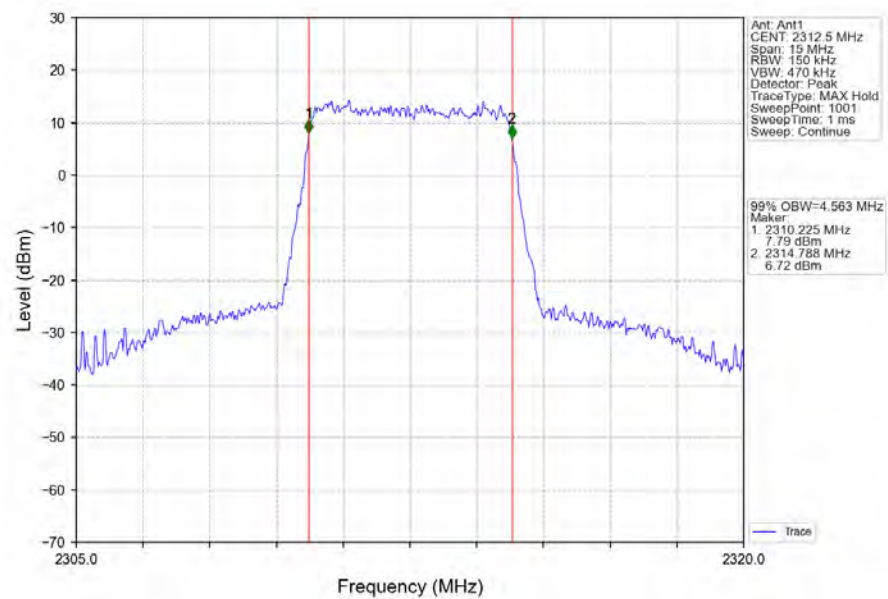
Band30_5MHz_256QAM_LCH_2307.5MHz_RB_25_0_NTNV



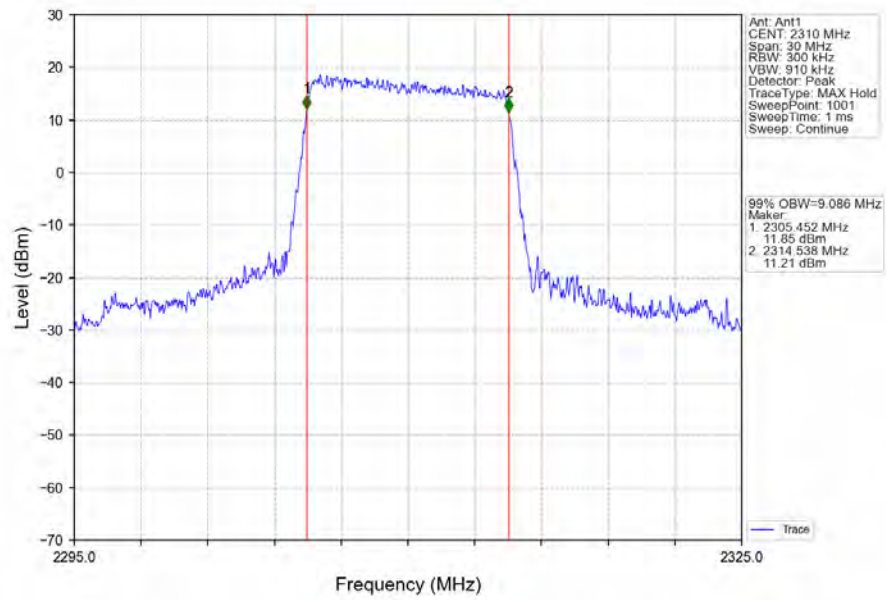
Band30_5MHz_256QAM_MCH_2310MHz_RB_25_0_NTNV



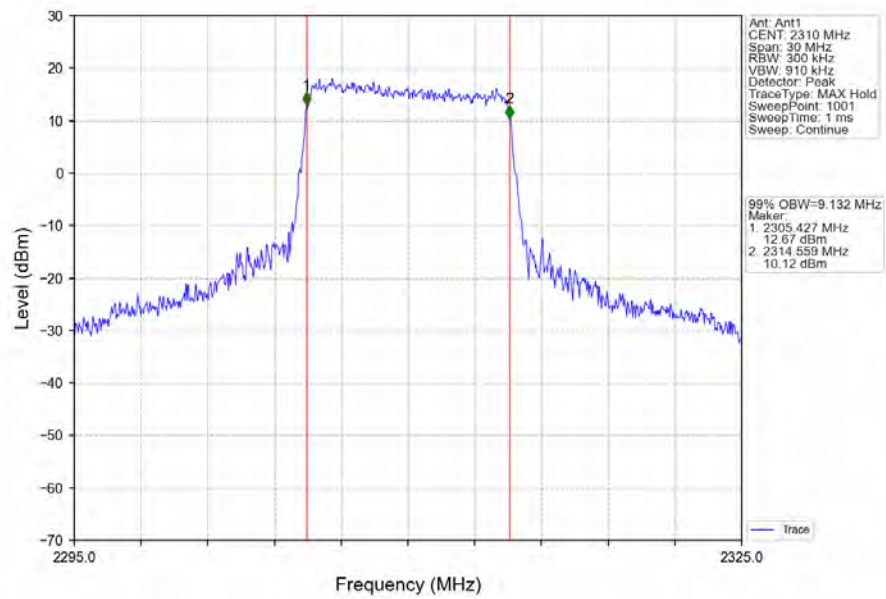
Band30_5MHz_256QAM_HCH_2312.5MHz_RB_25_0_NTNV



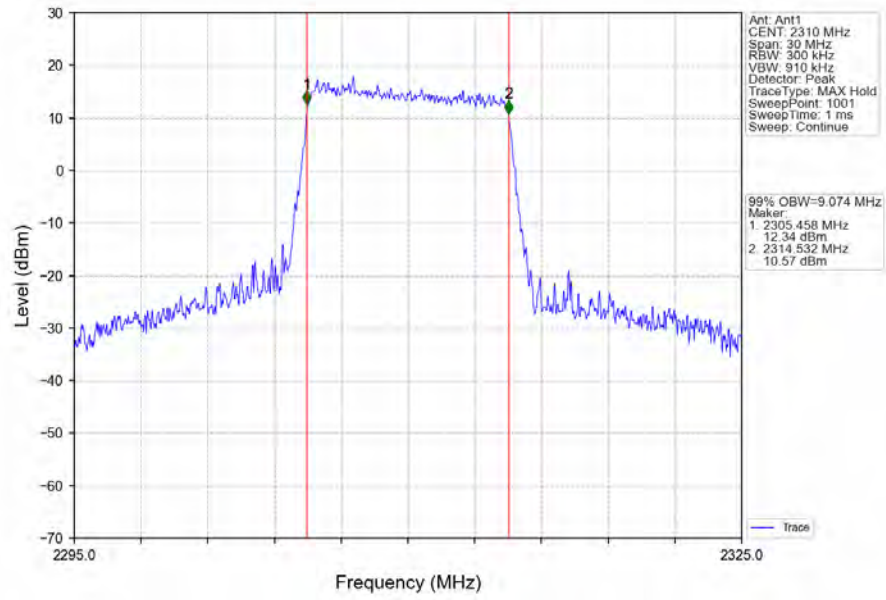
Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



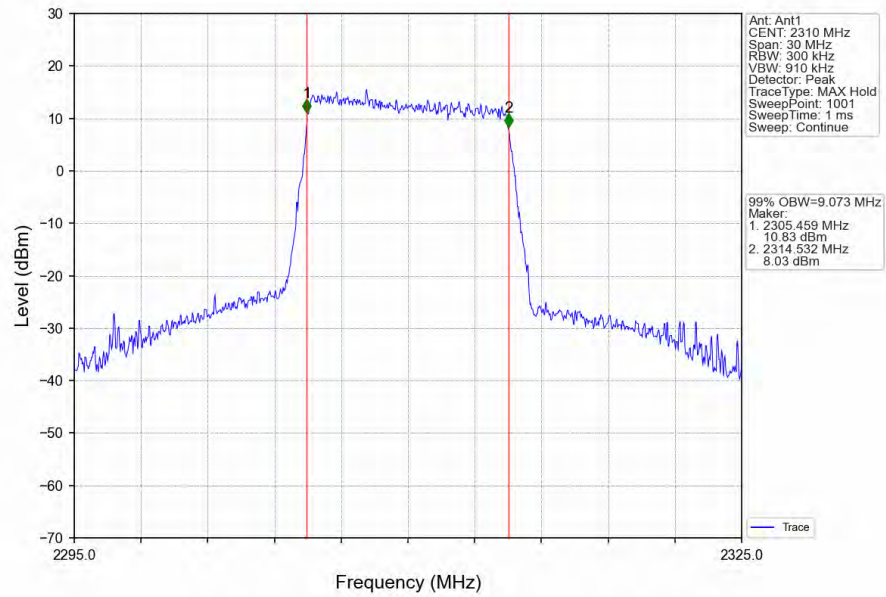
Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_50_0_NTNV

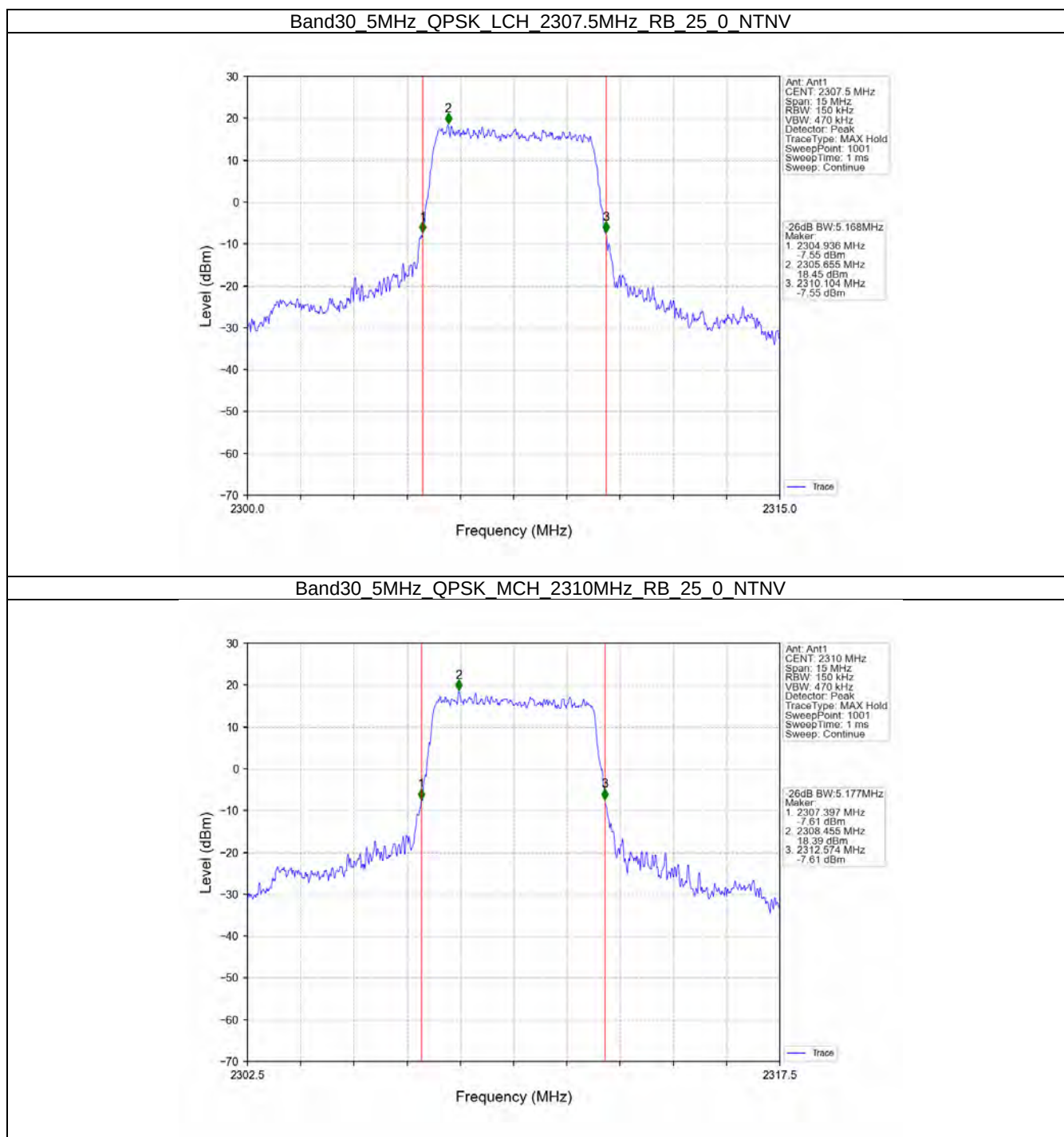


3.2 Band30_XDB

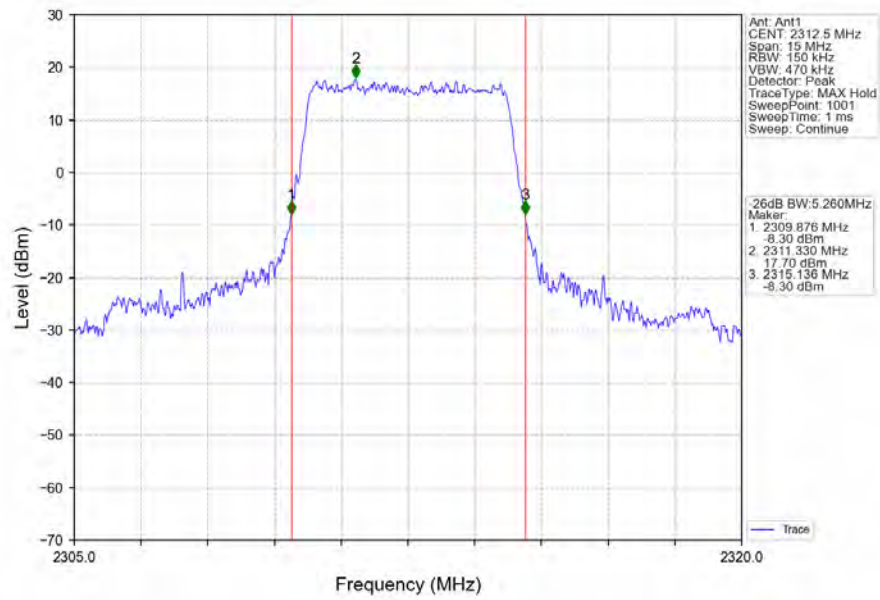
3.2.1 Test Result

Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	5.168	/	Pass
		2310	25	0	5.177	/	Pass
		2312.5	25	0	5.260	/	Pass
	16QAM	2307.5	25	0	5.205	/	Pass
		2310	25	0	5.331	/	Pass
		2312.5	25	0	5.276	/	Pass
	64QAM	2307.5	25	0	5.239	/	Pass
		2310	25	0	5.246	/	Pass
		2312.5	25	0	5.250	/	Pass
	256QAM	2307.5	25	0	5.191	/	Pass
		2310	25	0	5.254	/	Pass
		2312.5	25	0	5.218	/	Pass
10	QPSK	2310	50	0	10.174	/	Pass
	16QAM	2310	50	0	10.076	/	Pass
	64QAM	2310	50	0	10.092	/	Pass
	256QAM	2310	50	0	10.096	/	Pass

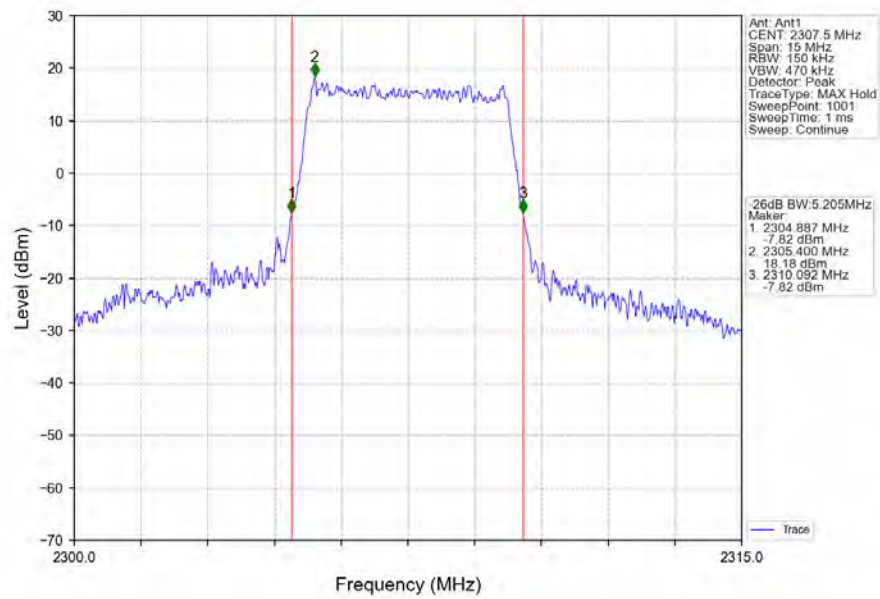
3.2.2 Test Graph



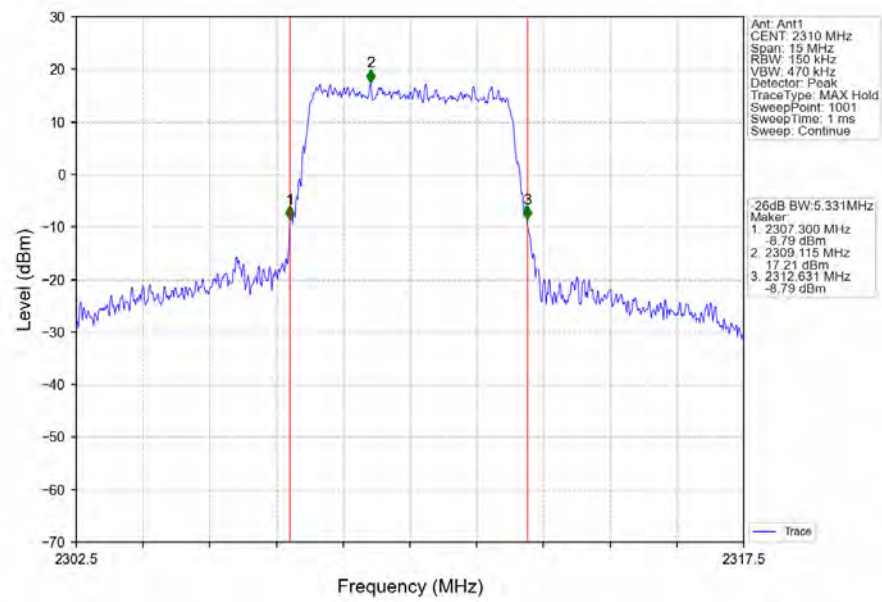
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



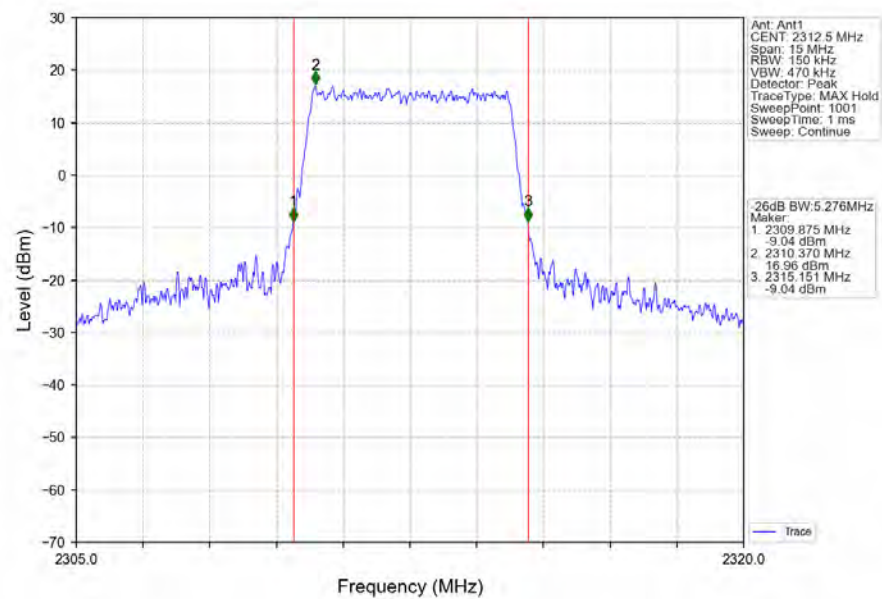
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



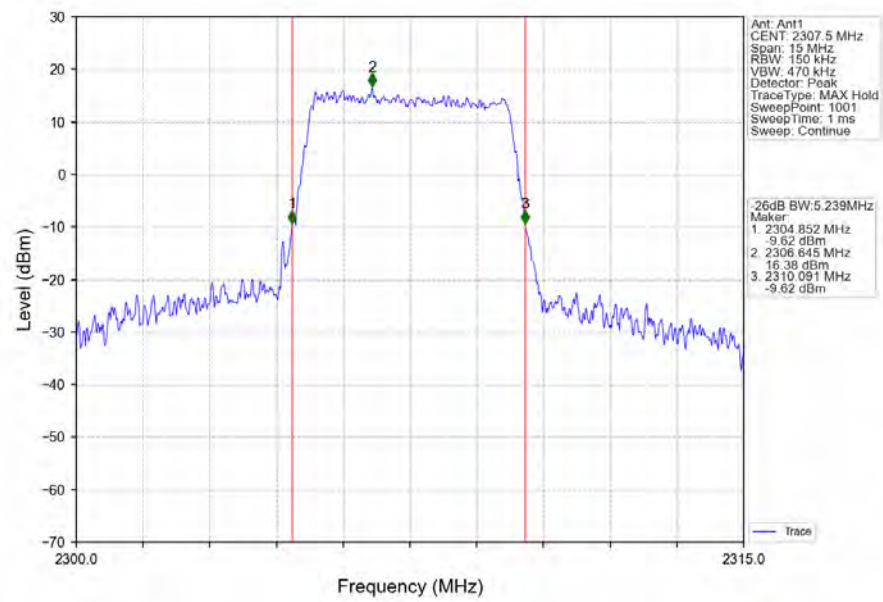
Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



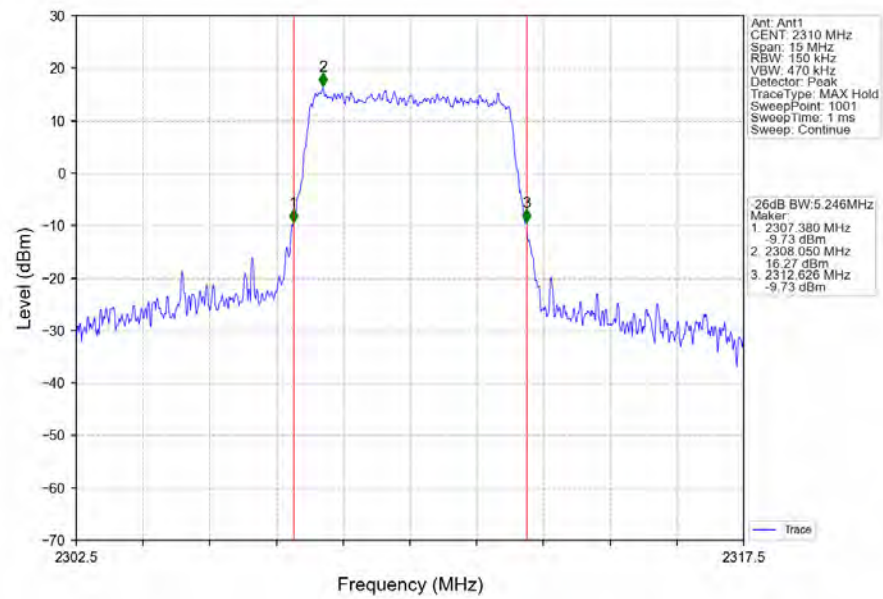
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



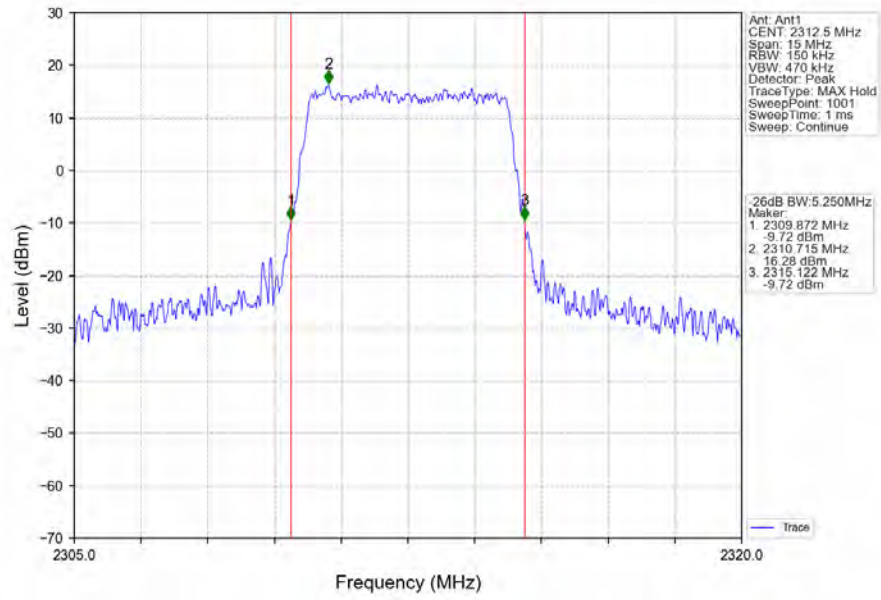
Band30_5MHz_64QAM_LCH_2307.5MHz_RB_25_0_NTNV



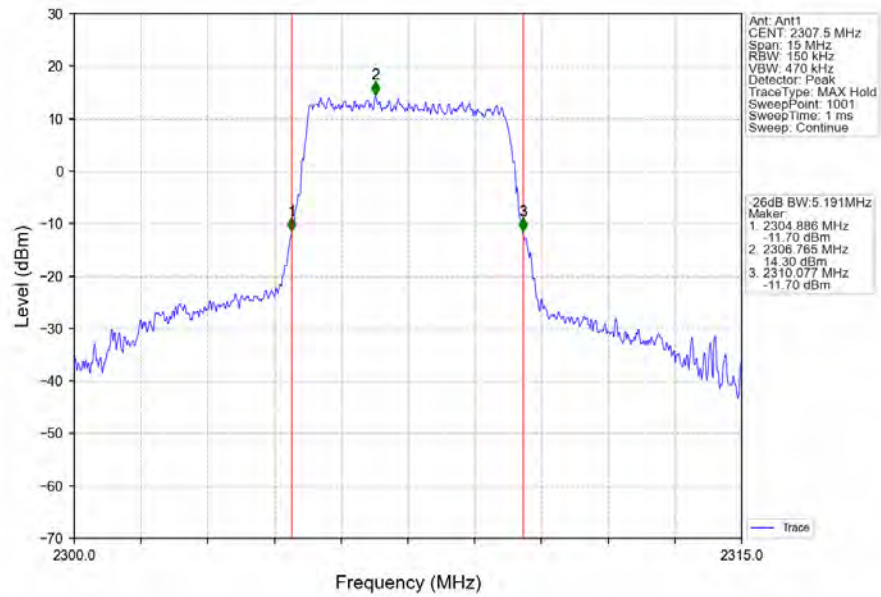
Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



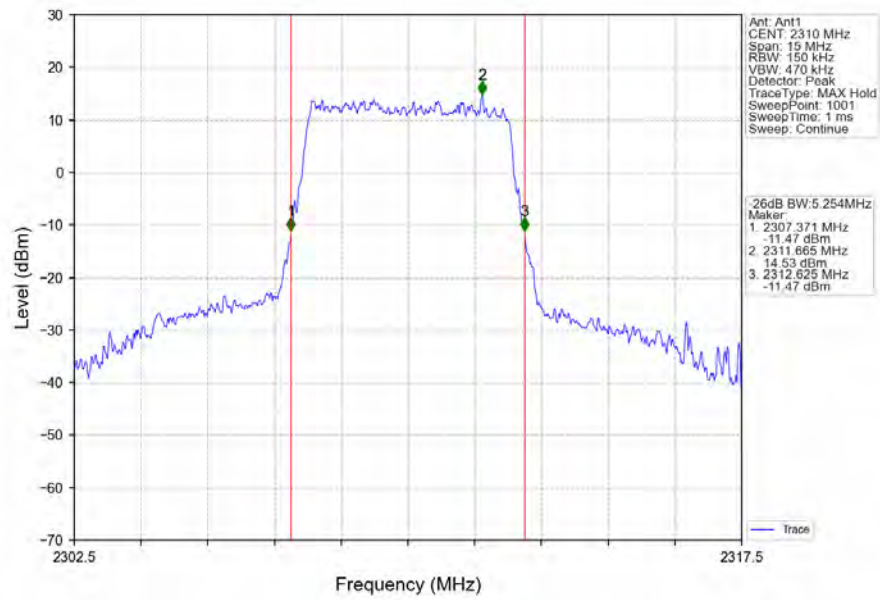
Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV



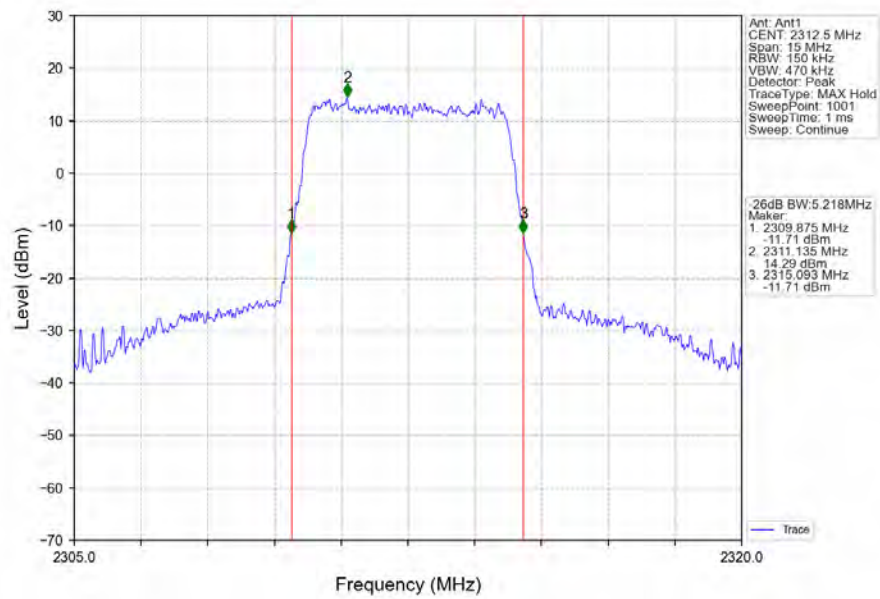
Band30_5MHz_256QAM_LCH_2307.5MHz_RB_25_0_NTNV



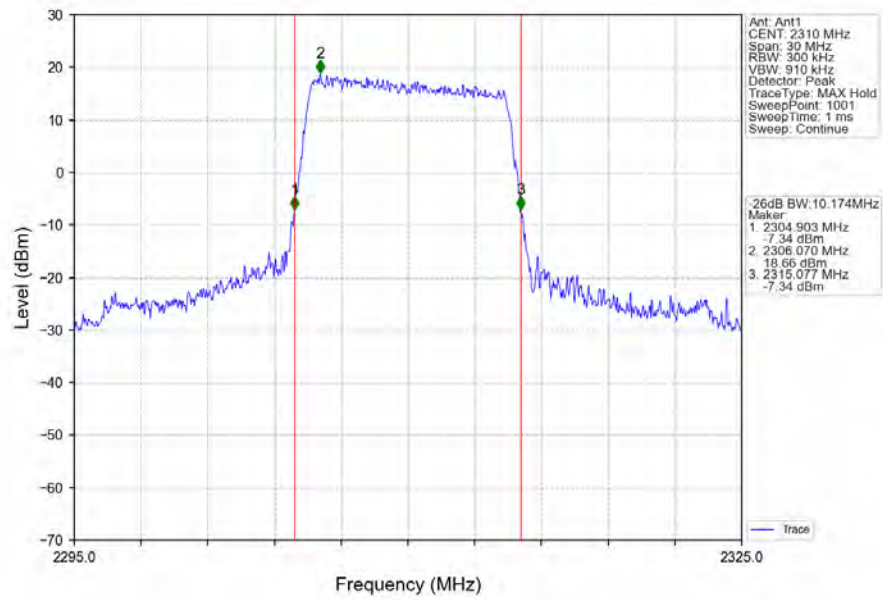
Band30_5MHz_256QAM_MCH_2310MHz_RB_25_0_NTNV



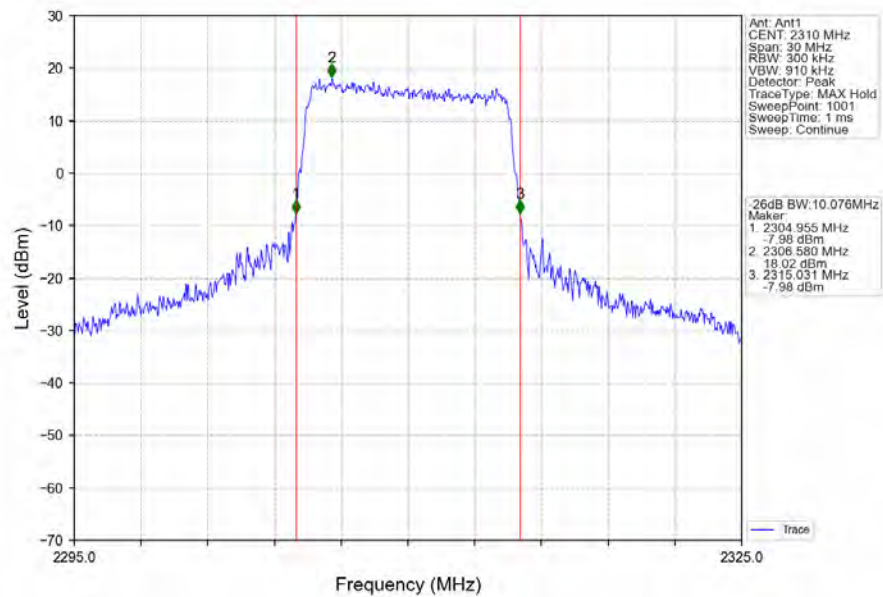
Band30_5MHz_256QAM_HCH_2312.5MHz_RB_25_0_NTNV



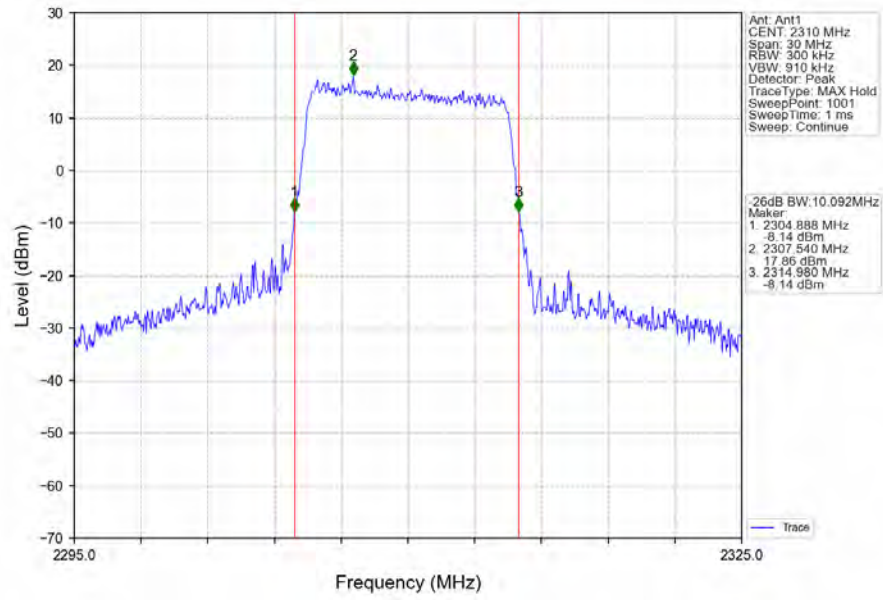
Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



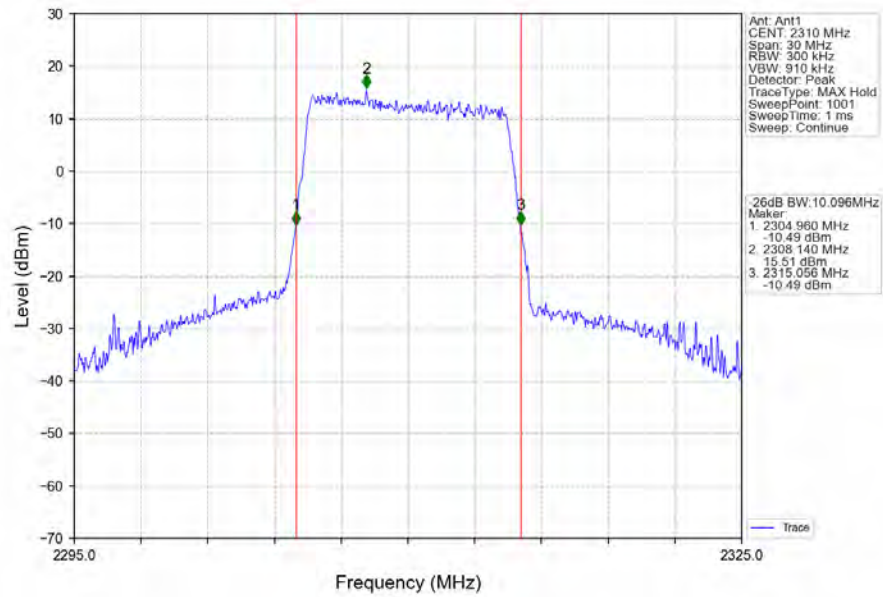
Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_50_0_NTNV



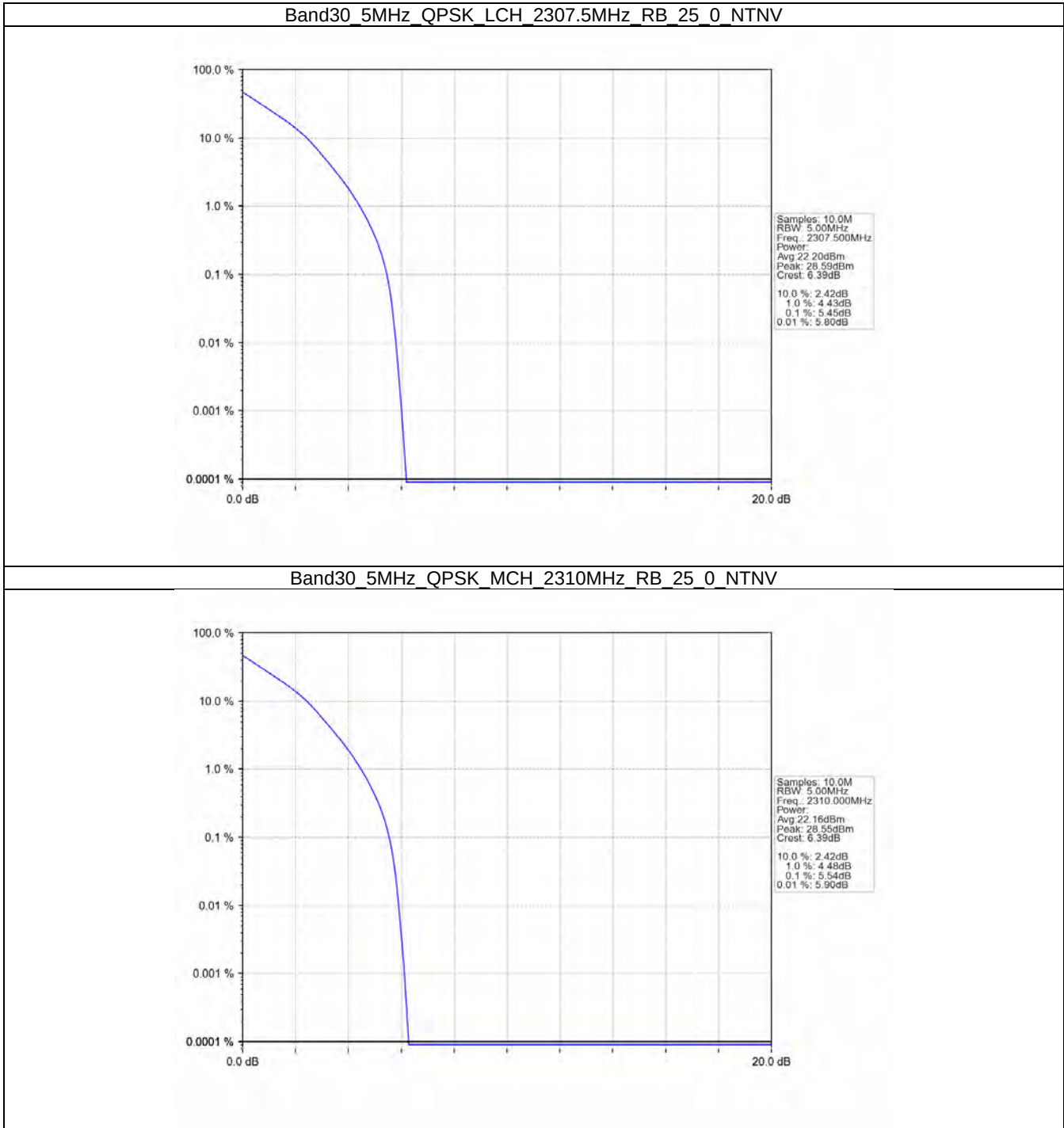
4. Peak-Average Ratio

4.1 B30_5MHz

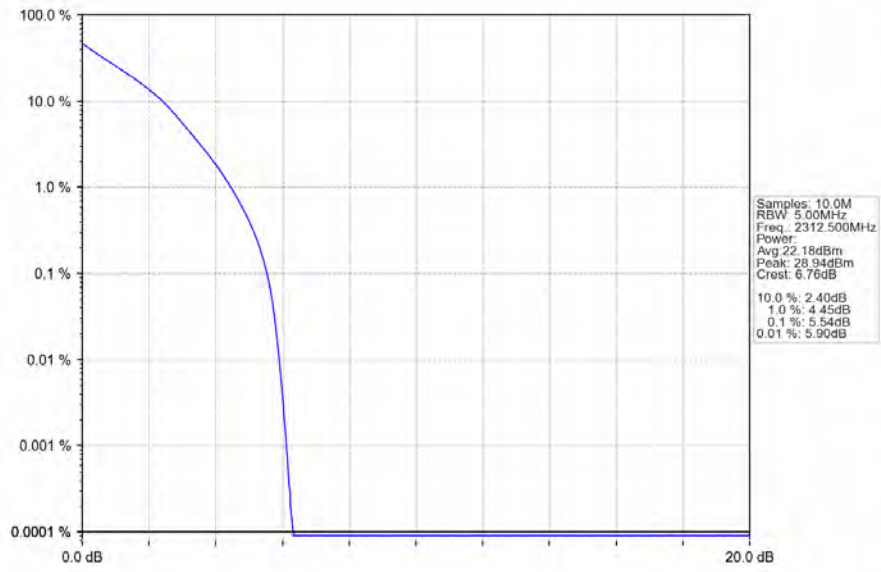
4.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	25	0	5.45	<=13	Pass
	2310	25	0	5.54	<=13	Pass
	2312.5	25	0	5.54	<=13	Pass
16QAM	2307.5	25	0	6.31	<=13	Pass
	2310	25	0	6.39	<=13	Pass
	2312.5	25	0	6.39	<=13	Pass
64QAM	2307.5	25	0	10.09	<=13	Pass
	2310	25	0	10.30	<=13	Pass
	2312.5	25	0	10.26	<=13	Pass
256QAM	2307.5	25	0	6.89	<=13	Pass
	2310	25	0	6.92	<=13	Pass
	2312.5	25	0	6.88	<=13	Pass

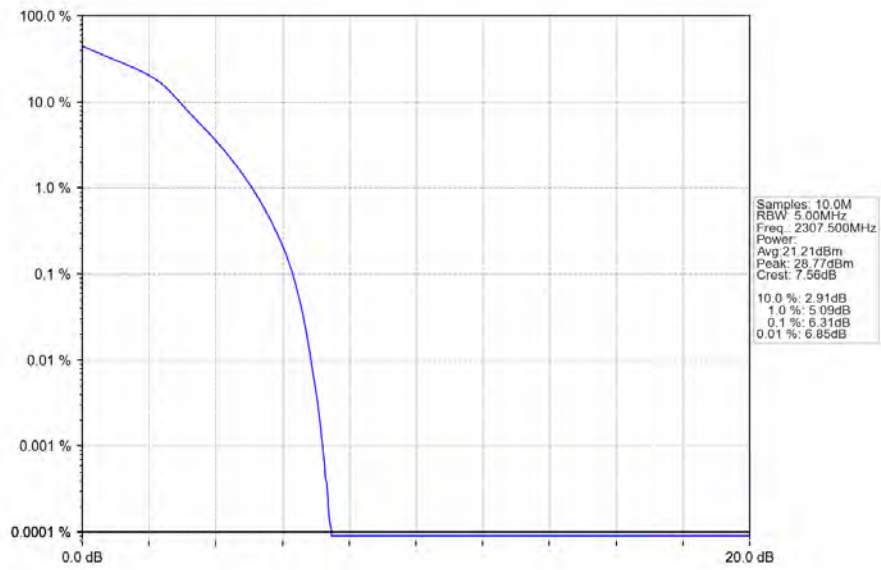
4.1.2 Test Graph



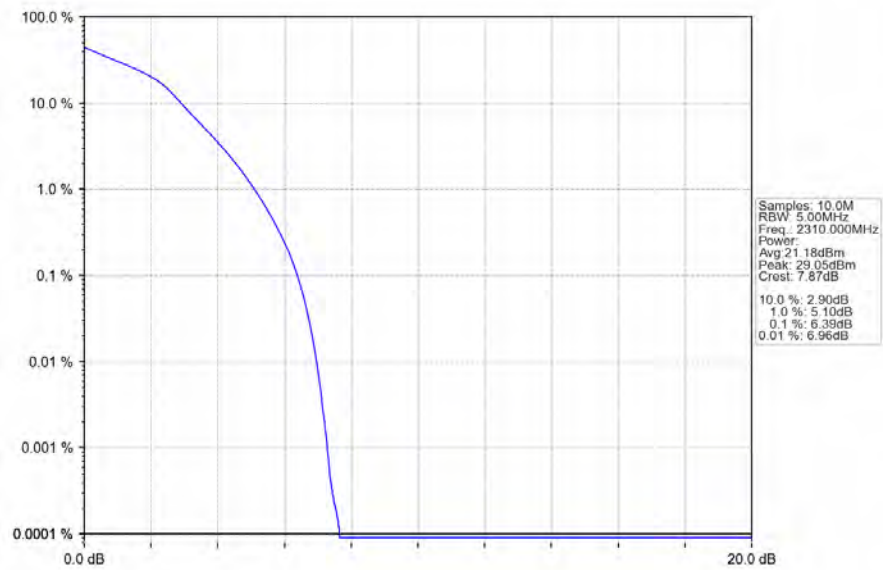
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



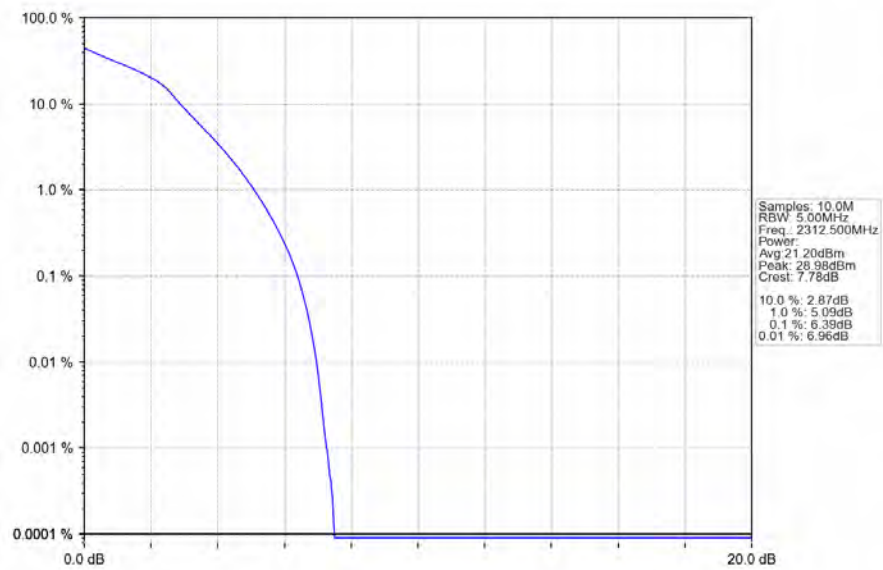
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



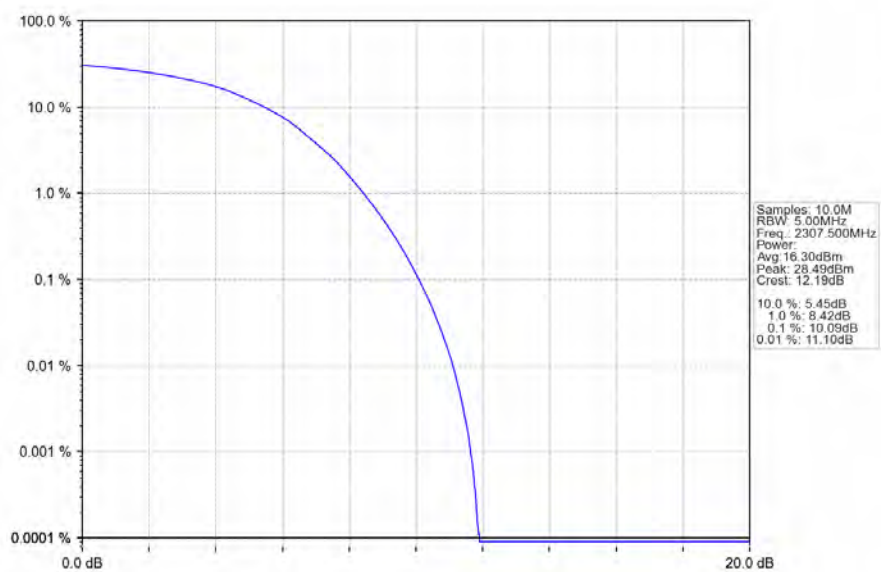
Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



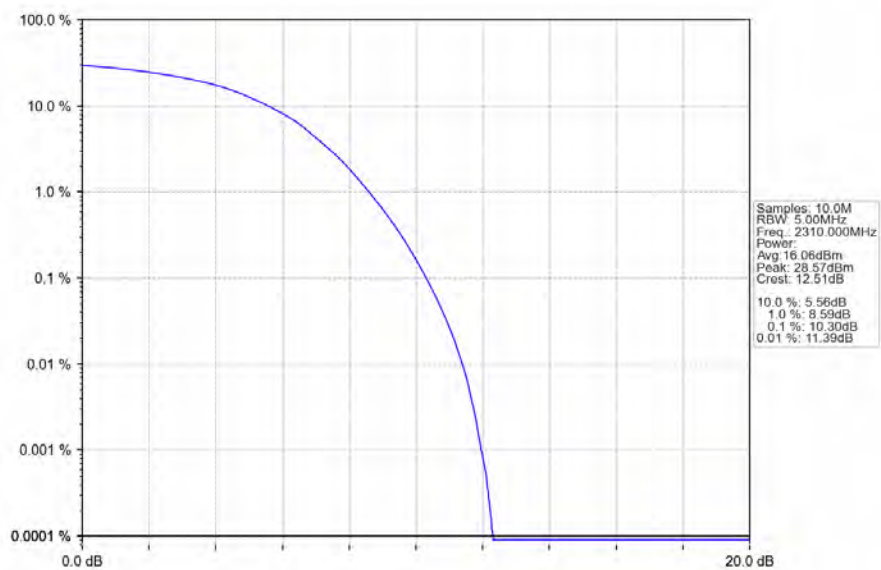
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



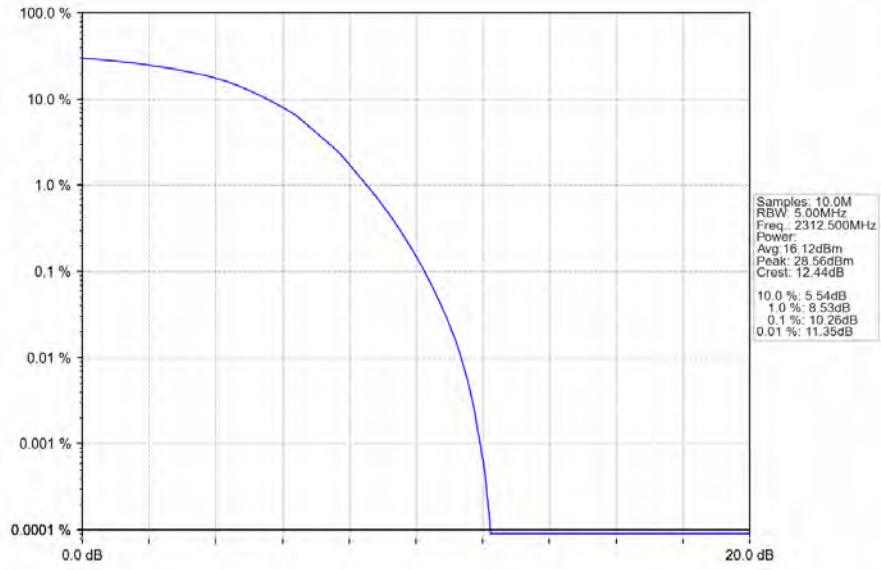
Band30_5MHz_64QAM_LCH_2307.5MHz_RB_25_0_NTNV



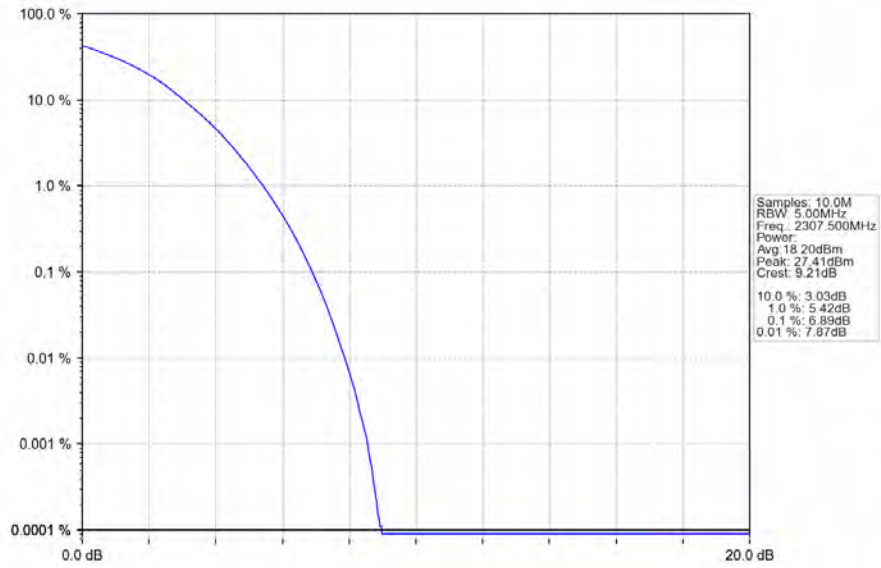
Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



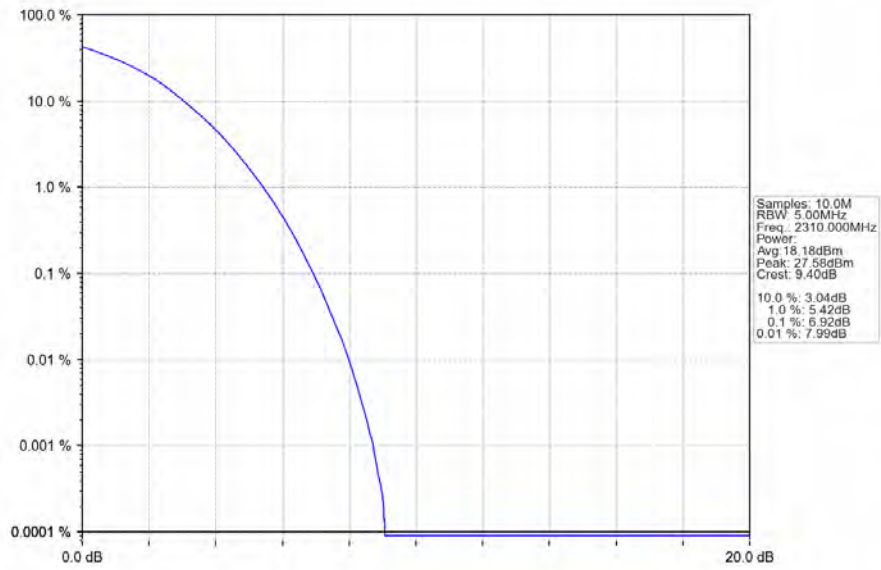
Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV



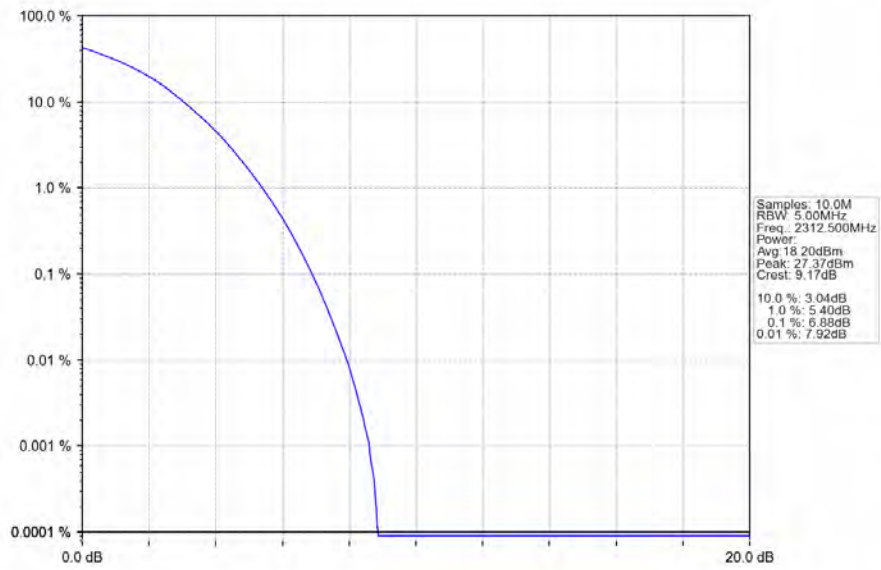
Band30_5MHz_256QAM_LCH_2307.5MHz_RB_25_0_NTNV



Band30_5MHz_256QAM_MCH_2310MHz_RB_25_0_NTNV



Band30_5MHz_256QAM_HCH_2312.5MHz_RB_25_0_NTNV

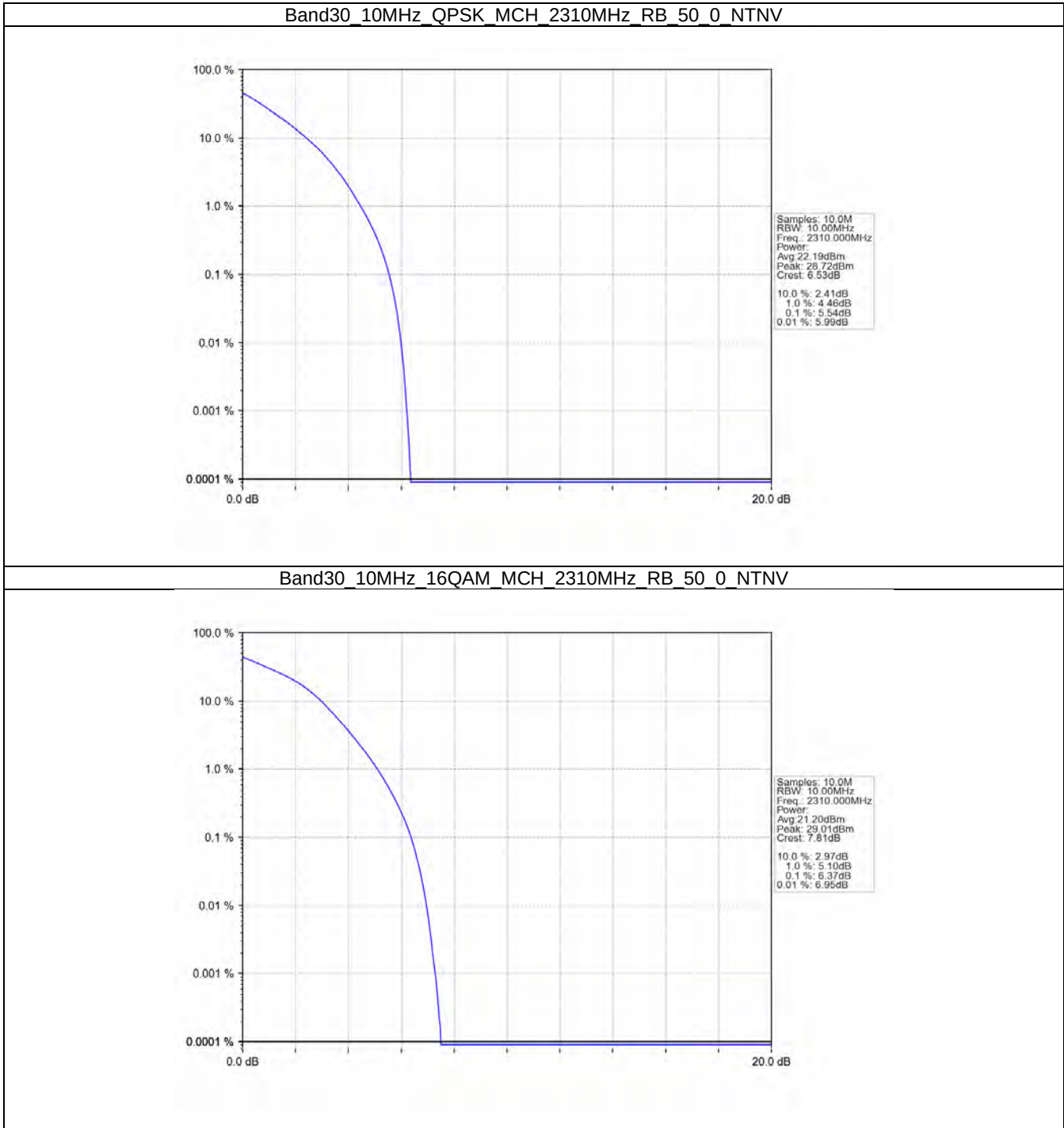


4.2 B30_10MHz

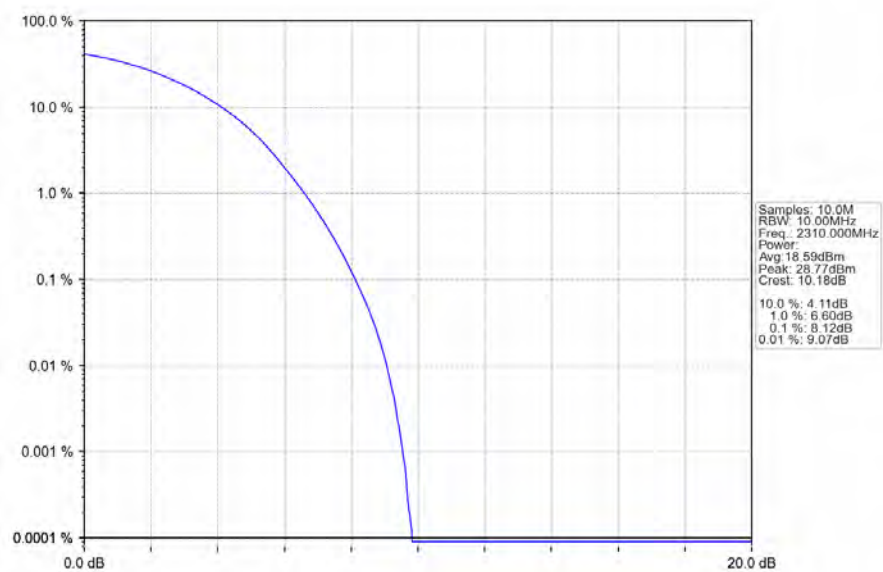
4.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	5.54	<=13	Pass
16QAM	2310	50	0	6.37	<=13	Pass
64QAM	2310	50	0	8.12	<=13	Pass
256QAM	2310	50	0	6.94	<=13	Pass

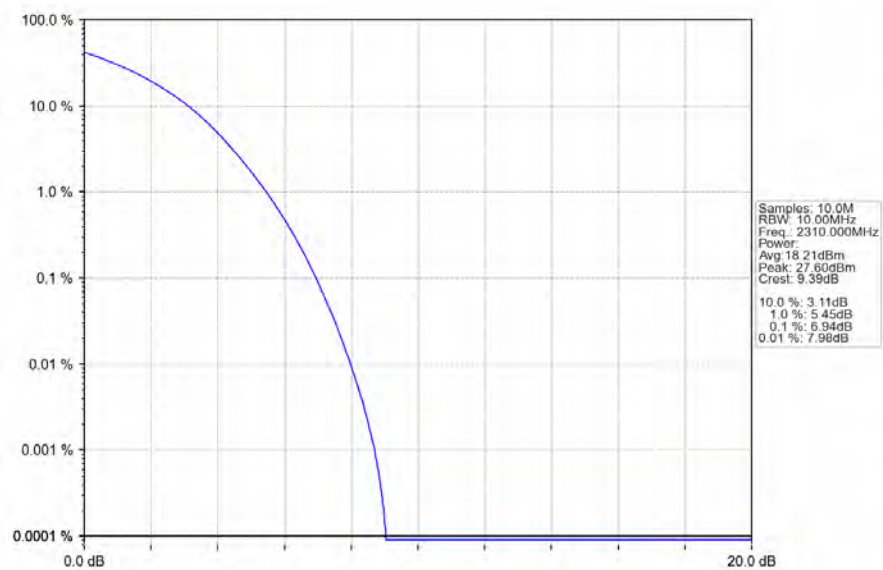
4.2.2 Test Graph



Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_50_0_NTNV



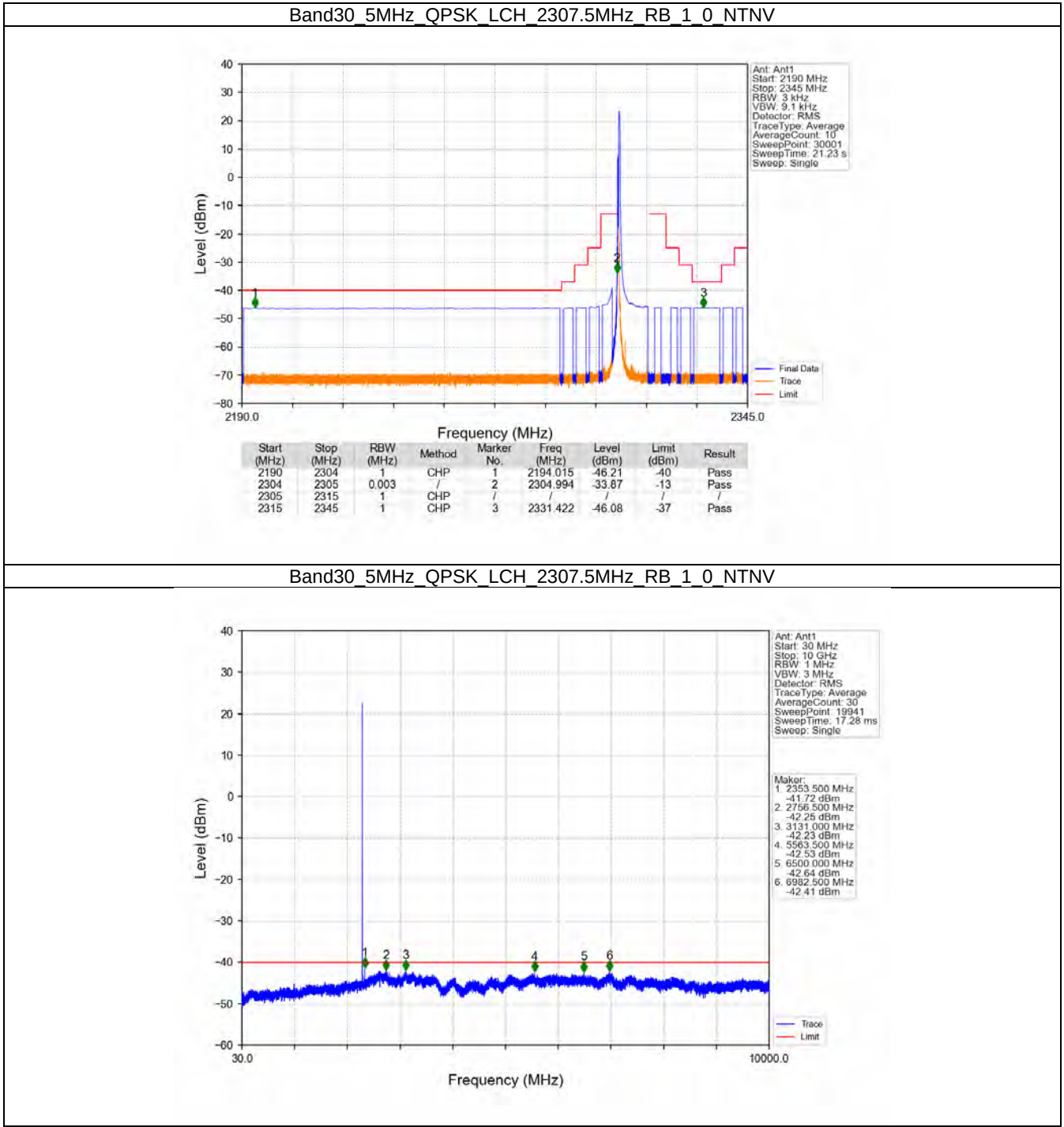
5. Spurious Emission

5.1 B30_5MHz

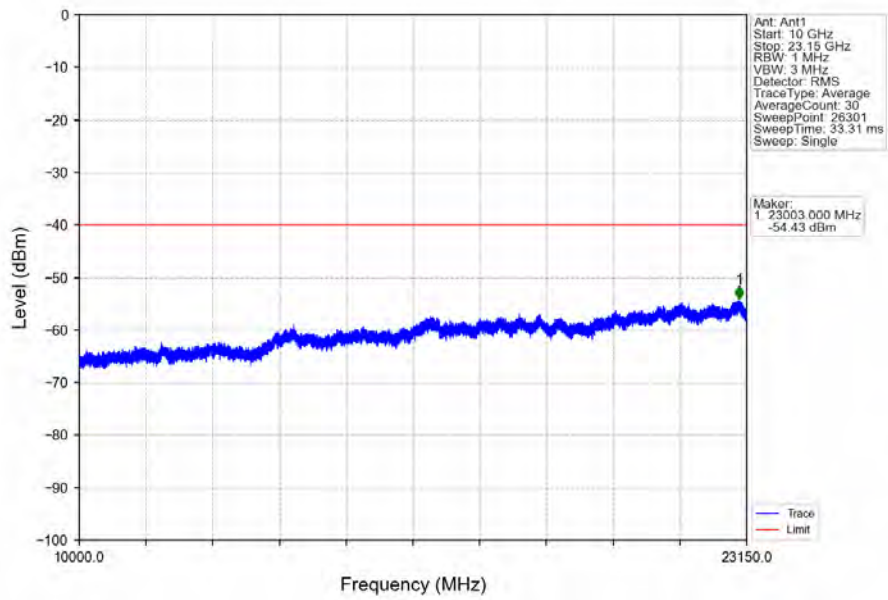
5.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		2312.5	1	0	Refer To Test Graph	
	24			Refer To Test Graph		Pass
	25		0	Refer To Test Graph		Pass

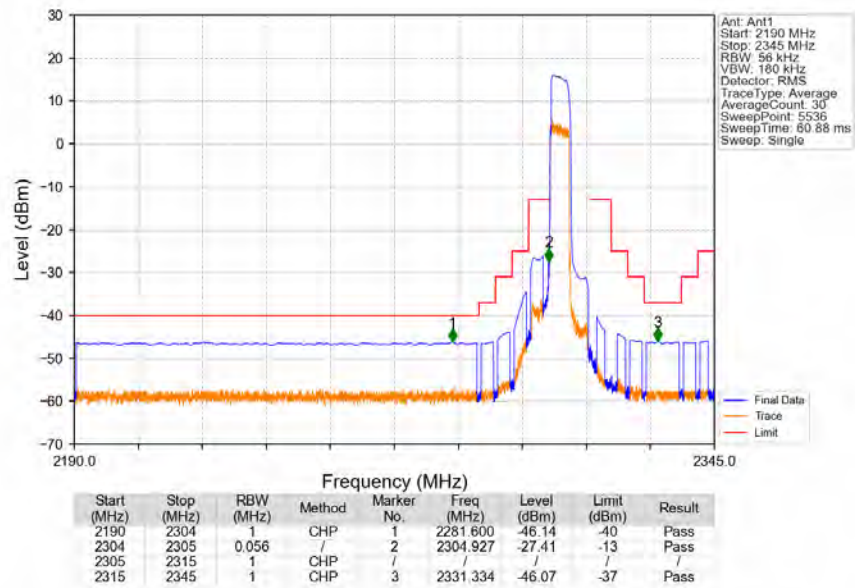
5.1.2 Test Graph



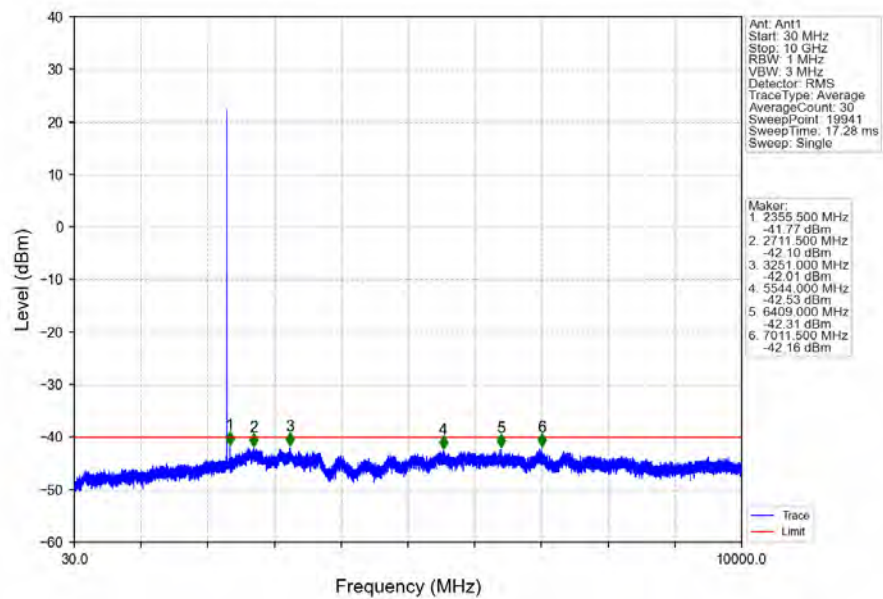
Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_0_NTNV



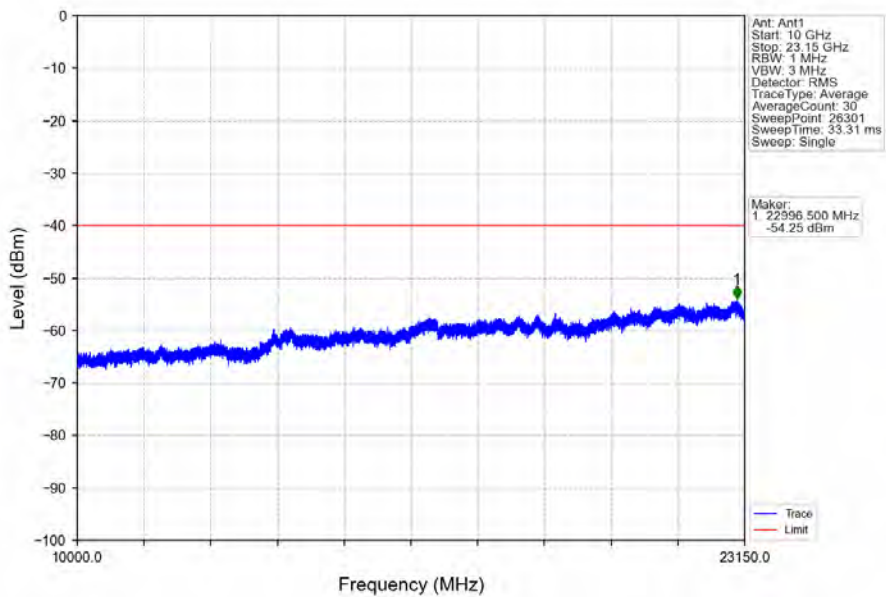
Band30_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV



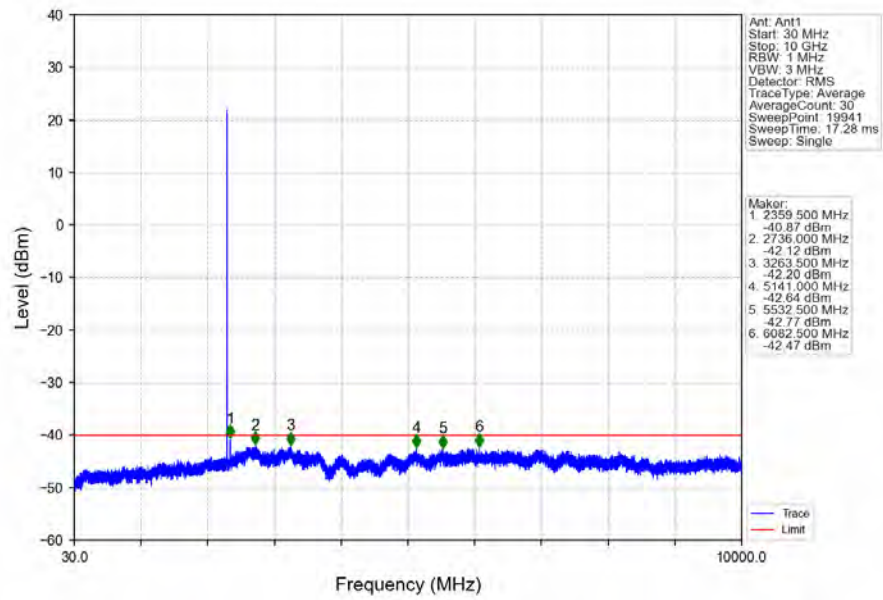
Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



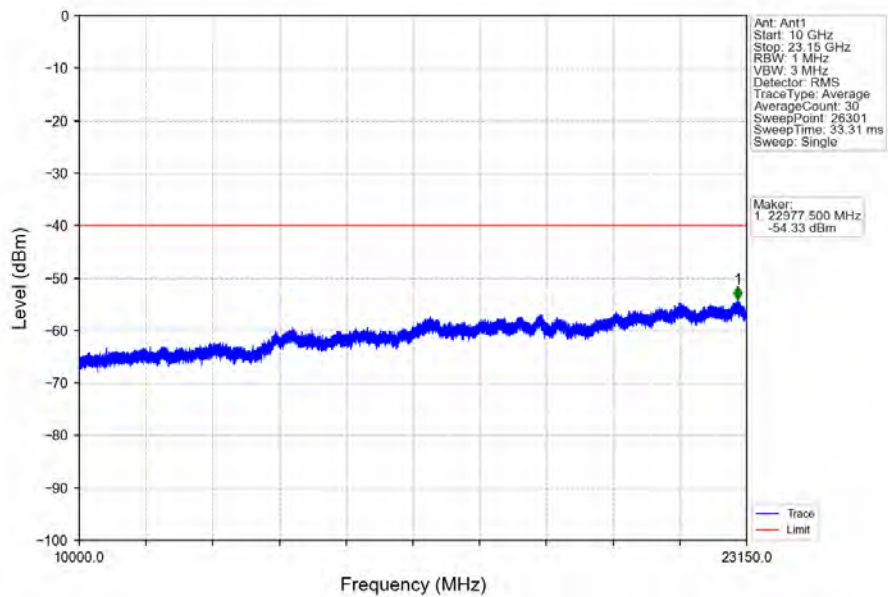
Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



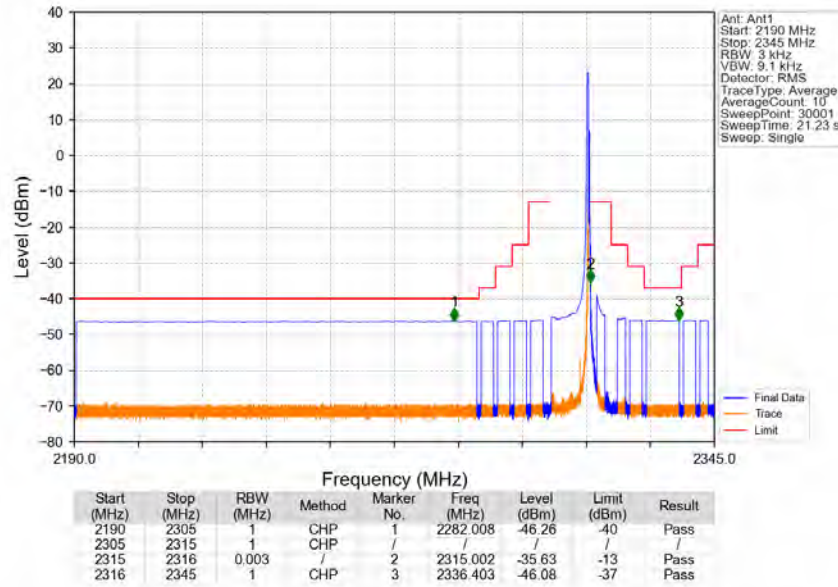
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



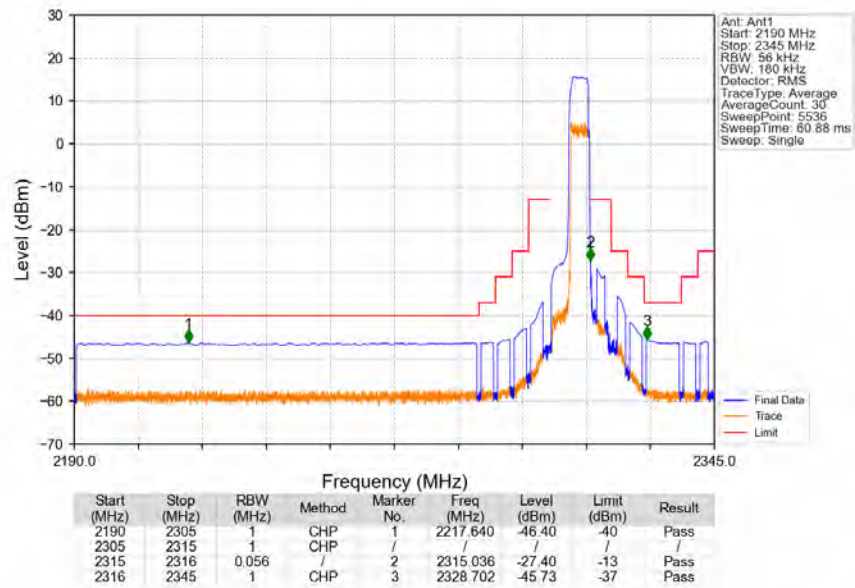
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



Band30 5MHz QPSK HCH 2312.5MHz RB 1 24 NTVN



Band30 5MHz QPSK HCH 2312.5MHz RB 25 0 NTVN

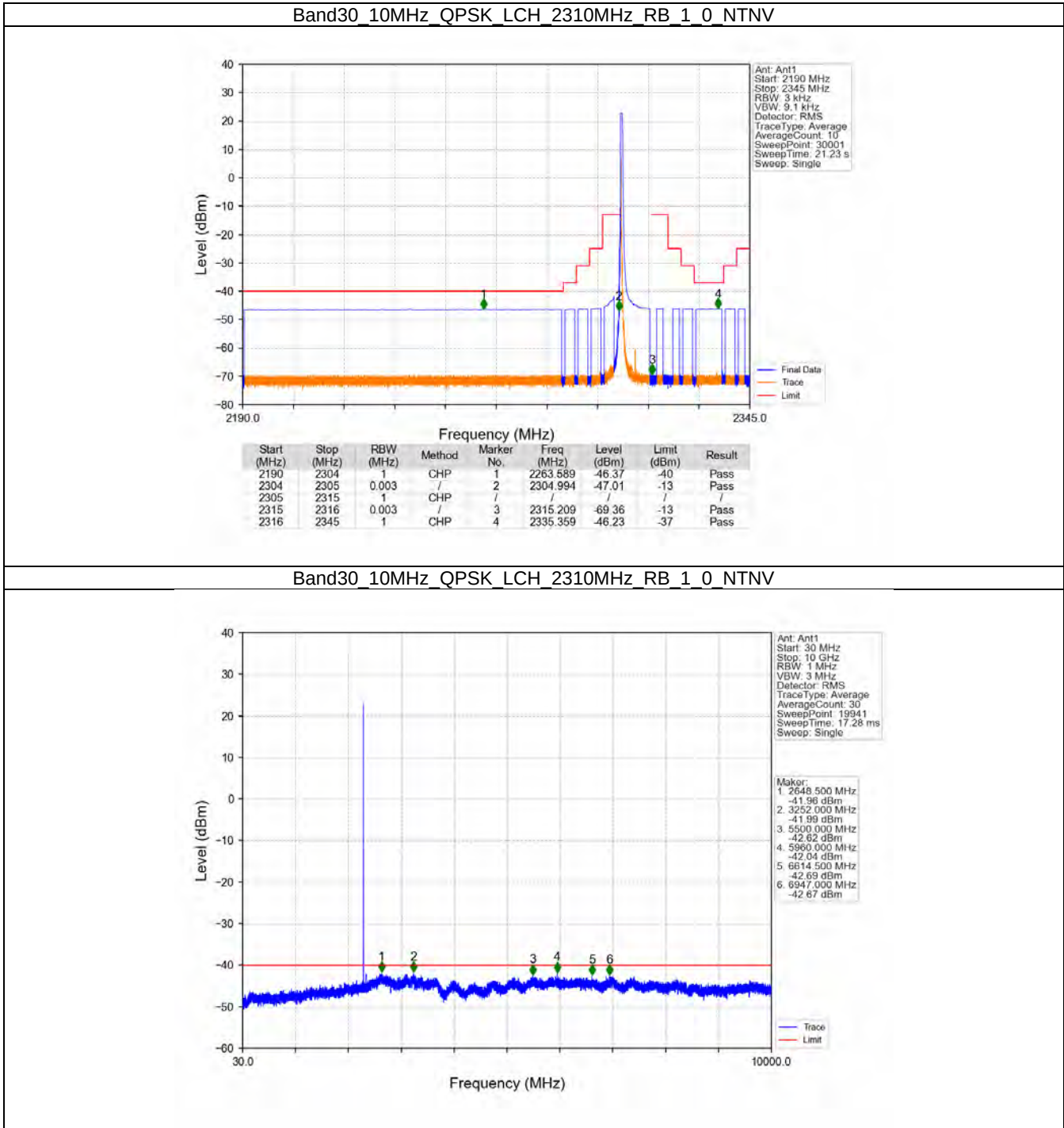


5.2 B30_10MHz

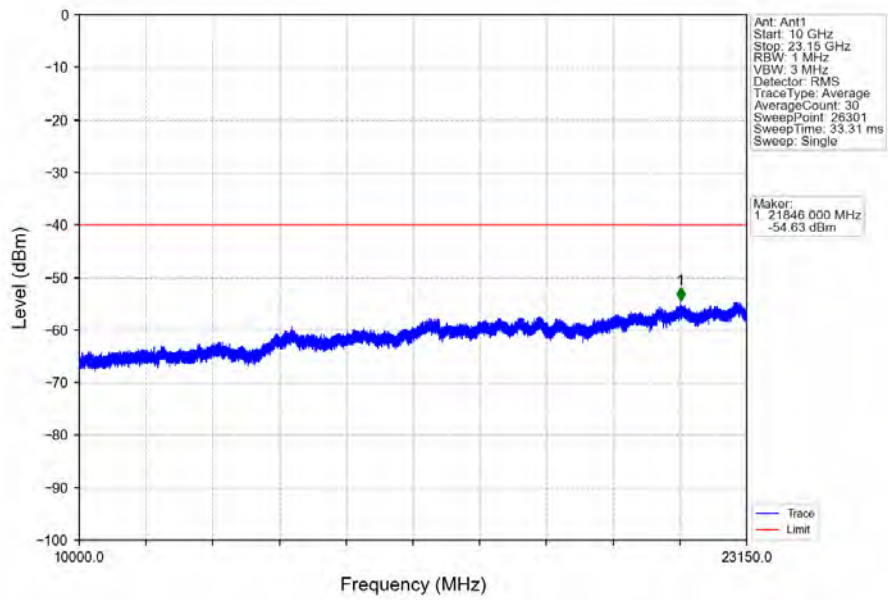
5.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

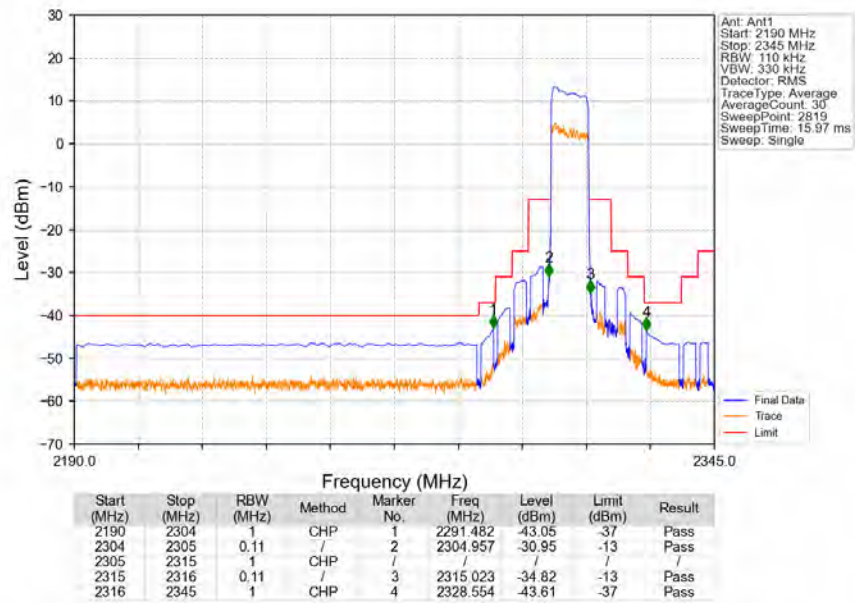
5.2.2 Test Graph



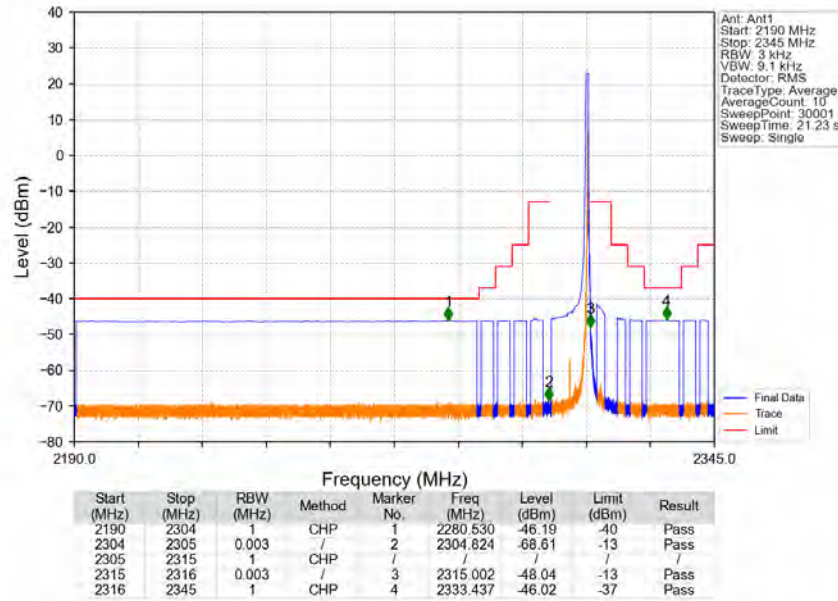
Band30 10MHz QPSK LCH 2310MHz RB 1 0 NTNV



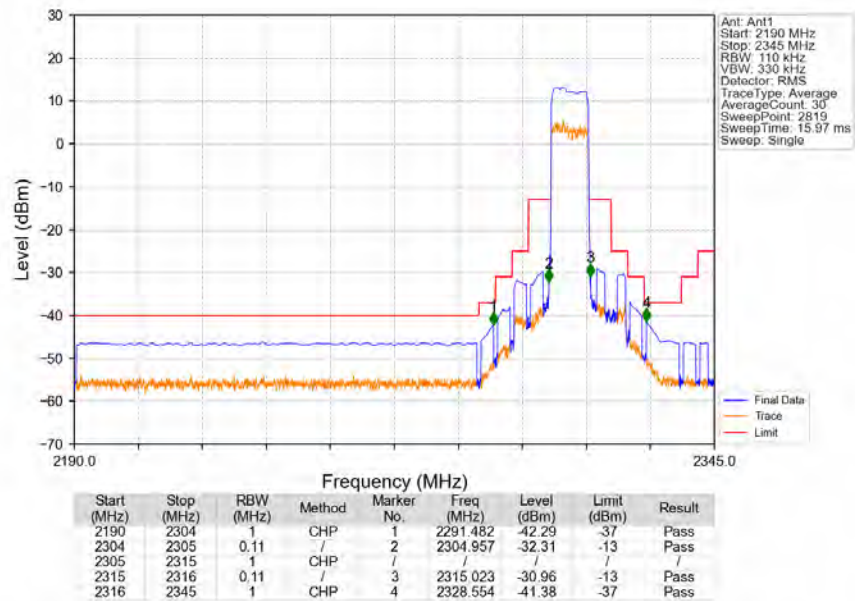
Band30_10MHz_QPSK_LCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_QPSK_HCH_2310MHz_RB_1_49_NTNV



Band30_10MHz_QPSK_HCH_2310MHz_RB_50_0_NTNV



6. Field Strength of Spurious Radiation

LTE Band 30-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4610.5	-62.98	-40	-22.98	-68.14	4.4	9.56	Horizontal	Pass
6915.75	-59.98	-40	-19.98	-66.09	4.91	11.02	Horizontal	Pass
9221.0	-57.24	-40	-17.24	-65.22	5.24	13.22	Horizontal	Pass
4610.5	-57.21	-40	-17.21	-62.37	4.4	9.56	Vertical	Pass
6915.75	-58.2	-40	-18.2	-64.31	4.91	11.02	Vertical	Pass
9221.0	-57.64	-40	-17.64	-65.62	5.24	13.22	Vertical	Pass

LTE Band 30-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4615.5	-62.05	-40	-22.05	-67.22	4.4	9.57	Horizontal	Pass
6923.25	-54.87	-40	-14.87	-60.99	4.91	11.03	Horizontal	Pass
9231.0	-57.35	-40	-17.35	-65.33	5.24	13.22	Horizontal	Pass
4615.5	-55.05	-40	-15.05	-60.22	4.4	9.57	Vertical	Pass
6923.25	-54.13	-40	-14.13	-60.25	4.91	11.03	Vertical	Pass
9231.0	-57.73	-40	-17.73	-65.71	5.24	13.22	Vertical	Pass

LTE Band 30-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4620.5	-61.03	-40	-21.03	-66.21	4.4	9.58	Horizontal	Pass
6930.75	-53.93	-40	-13.93	-60.06	4.91	11.04	Horizontal	Pass
9241.0	-57.7	-40	-17.7	-65.67	5.25	13.22	Horizontal	Pass
4620.5	-55.1	-40	-15.1	-60.28	4.4	9.58	Vertical	Pass
6930.75	-50.53	-40	-10.53	-56.66	4.91	11.04	Vertical	Pass
9241.0	-57.64	-40	-17.64	-65.61	5.25	13.22	Vertical	Pass

LTE CA_5A_30A-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4610.5	-60.06	-40	-20.06	-65.22	4.4	9.56	Horizontal	Pass
6915.75	-60.79	-40	-20.79	-66.9	4.91	11.02	Horizontal	Pass
9221.0	-58.02	-40	-18.02	-66.0	5.24	13.22	Horizontal	Pass
4610.5	-63.11	-40	-23.11	-68.27	4.4	9.56	Vertical	Pass
6915.75	-61.02	-40	-21.02	-67.13	4.91	11.02	Vertical	Pass
9221.0	-57.77	-40	-17.77	-65.75	5.24	13.22	Vertical	Pass

LTE CA_5A_30A -Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4615.5	-64.36	-40	-24.36	-69.53	4.4	9.57	Horizontal	Pass
6923.25	-60.47	-40	-20.47	-66.59	4.91	11.03	Horizontal	Pass
9231.0	-58.08	-40	-18.08	-66.06	5.24	13.22	Horizontal	Pass
4615.5	-62.77	-40	-22.77	-67.94	4.4	9.57	Vertical	Pass
6923.25	-59.79	-40	-19.79	-65.91	4.91	11.03	Vertical	Pass
9231.0	-57.54	-40	-17.54	-65.52	5.24	13.22	Vertical	Pass

LTE CA_5A_30A -High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4620.5	-63.7	-40	-23.7	-68.88	4.4	9.58	Horizontal	Pass
6930.75	-59.99	-40	-19.99	-66.12	4.91	11.04	Horizontal	Pass
9241.0	-57.95	-40	-17.95	-65.92	5.25	13.22	Horizontal	Pass
4620.5	-62.78	-40	-22.78	-67.96	4.4	9.58	Vertical	Pass
6930.75	-58.66	-40	-18.66	-64.79	4.91	11.04	Vertical	Pass
9241.0	-57.63	-40	-17.63	-65.6	5.25	13.22	Vertical	Pass

LTE CA_12A_30A-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4610.5	-64.19	-40	-24.19	-69.35	4.4	9.56	Horizontal	Pass
6915.75	-60.6	-40	-20.6	-66.71	4.91	11.02	Horizontal	Pass
9221.0	-57.77	-40	-17.77	-65.75	5.24	13.22	Horizontal	Pass
4610.5	-63.46	-40	-23.46	-68.62	4.4	9.56	Vertical	Pass
6915.75	-60.39	-40	-20.39	-66.5	4.91	11.02	Vertical	Pass
9221.0	-57.64	-40	-17.64	-65.62	5.24	13.22	Vertical	Pass

LTE CA_12A_30A-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4615.5	-64.64	-40	-24.64	-69.81	4.4	9.57	Horizontal	Pass
6923.25	-60.79	-40	-20.79	-66.91	4.91	11.03	Horizontal	Pass
9231.0	-57.85	-40	-17.85	-65.83	5.24	13.22	Horizontal	Pass
4615.5	-60.51	-40	-20.51	-65.68	4.4	9.57	Vertical	Pass
6923.25	-60.97	-40	-20.97	-67.09	4.91	11.03	Vertical	Pass
9231.0	-57.74	-40	-17.74	-65.72	5.24	13.22	Vertical	Pass

LTE CA_12A_30A-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4620.5	-63.95	-40	-23.95	-69.13	4.4	9.58	Horizontal	Pass
6930.75	-59.85	-40	-19.85	-65.98	4.91	11.04	Horizontal	Pass
9241.0	-57.6	-40	-17.6	-65.57	5.25	13.22	Horizontal	Pass
4620.5	-62.98	-40	-22.98	-68.16	4.4	9.58	Vertical	Pass
6930.75	-59.19	-40	-19.19	-65.32	4.91	11.04	Vertical	Pass
9241.0	-57.78	-40	-17.78	-65.75	5.25	13.22	Vertical	Pass