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	20.39	1.21	21.60	<=23.98	Pass
			13	20.51	1.21	21.72	<=23.98	Pass
			24	20.38	1.21	21.59	<=23.98	Pass
		12	0	19.50	1.21	20.71	<=23.98	Pass
			6	19.59	1.21	20.80	<=23.98	Pass
			13	19.49	1.21	20.70	<=23.98	Pass
		25	0	19.58	1.21	20.79	<=23.98	Pass
	2310	1	0	19.92	1.21	21.13	<=23.98	Pass
			13	20.06	1.21	21.27	<=23.98	Pass
			24	19.88	1.21	21.09	<=23.98	Pass
		12	0	19.06	1.21	20.27	<=23.98	Pass
			6	19.06	1.21	20.27	<=23.98	Pass
			13	18.99	1.21	20.20	<=23.98	Pass
		25	0	19.02	1.21	20.23	<=23.98	Pass
	2312.5	1	0	19.92	1.21	21.13	<=23.98	Pass
			13	19.98	1.21	21.19	<=23.98	Pass
			24	19.84	1.21	21.05	<=23.98	Pass
		12	0	19.04	1.21	20.25	<=23.98	Pass
			6	19.04	1.21	20.25	<=23.98	Pass
			13	18.93	1.21	20.14	<=23.98	Pass
		25	0	18.99	1.21	20.20	<=23.98	Pass
16QAM	2307.5	1	0	19.27	1.21	20.48	<=23.98	Pass
			13	19.30	1.21	20.51	<=23.98	Pass
			24	19.21	1.21	20.42	<=23.98	Pass
		12	0	18.09	1.21	19.30	<=23.98	Pass
			6	18.14	1.21	19.35	<=23.98	Pass
			13	18.09	1.21	19.30	<=23.98	Pass
		25	0	18.00	1.21	19.21	<=23.98	Pass
	2310	1	0	18.80	1.21	20.01	<=23.98	Pass
			13	18.93	1.21	20.14	<=23.98	Pass
			24	18.79	1.21	20.00	<=23.98	Pass
		12	0	18.00	1.21	19.21	<=23.98	Pass
			6	18.07	1.21	19.28	<=23.98	Pass
			13	18.00	1.21	19.21	<=23.98	Pass
		25	0	18.06	1.21	19.27	<=23.98	Pass
	2312.5	1	0	19.03	1.21	20.24	<=23.98	Pass
			13	19.15	1.21	20.36	<=23.98	Pass
			24	19.00	1.21	20.21	<=23.98	Pass
		12	0	18.01	1.21	19.22	<=23.98	Pass
			6	18.04	1.21	19.25	<=23.98	Pass
			13	17.98	1.21	19.19	<=23.98	Pass
		25	0	18.01	1.21	19.22	<=23.98	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

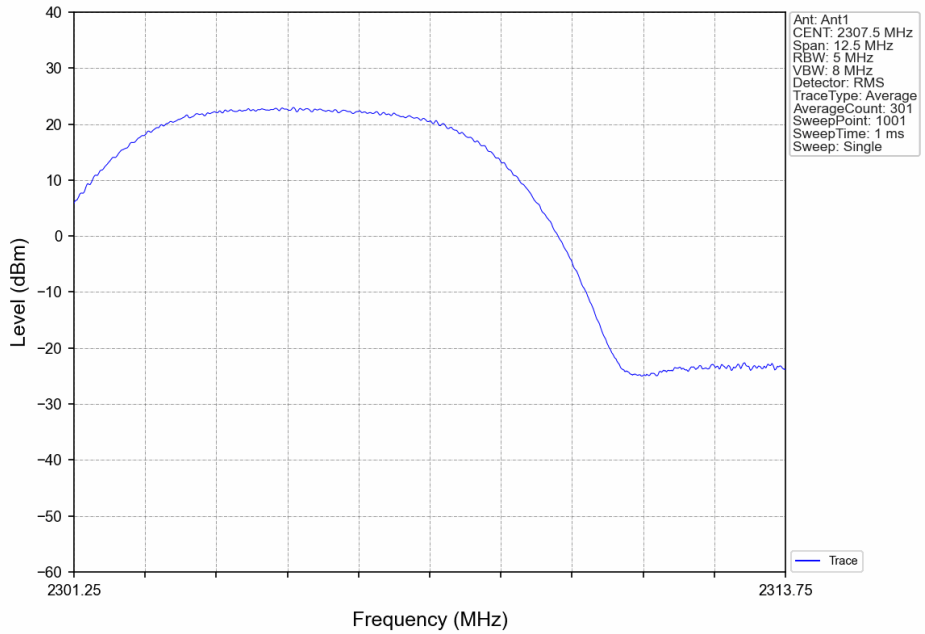
1.2 B30_5MHz_EIRP/5MHz

1.2.1 Test Result

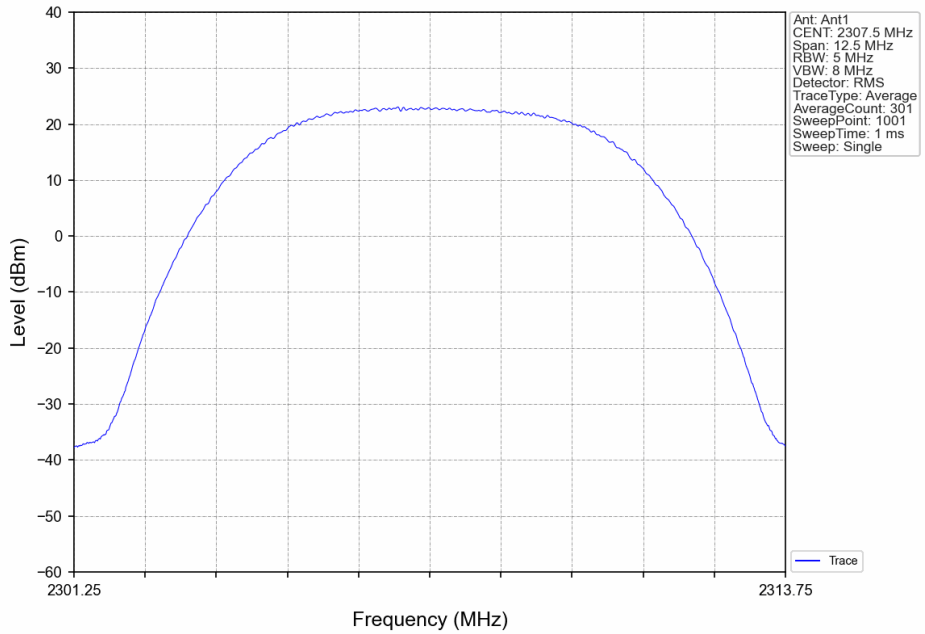
Band: 30 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/5MHz (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2307.5	1	0	22.21	1.21	23.42	<=23.98	Pass
			13	22.52	1.21	23.73	<=23.98	Pass
			24	22.41	1.21	23.62	<=23.98	Pass
		12	0	21.75	1.21	22.96	<=23.98	Pass
			6	21.85	1.21	23.06	<=23.98	Pass
			13	21.81	1.21	23.02	<=23.98	Pass
		25	0	21.32	1.21	22.53	<=23.98	Pass
	2310	1	0	22.44	1.21	23.65	<=23.98	Pass
			13	22.70	1.21	23.91	<=23.98	Pass
			24	22.50	1.21	23.71	<=23.98	Pass
		12	0	21.29	1.21	22.50	<=23.98	Pass
			6	21.32	1.21	22.53	<=23.98	Pass
			13	21.22	1.21	22.43	<=23.98	Pass
		25	0	20.87	1.21	22.08	<=23.98	Pass
	2312.5	1	0	22.43	1.21	23.64	<=23.98	Pass
			13	22.51	1.21	23.72	<=23.98	Pass
			24	22.41	1.21	23.62	<=23.98	Pass
		12	0	21.28	1.21	22.49	<=23.98	Pass
			6	21.33	1.21	22.54	<=23.98	Pass
			13	21.21	1.21	22.42	<=23.98	Pass
		25	0	20.81	1.21	22.02	<=23.98	Pass
16QAM	2307.5	1	0	21.75	1.21	22.96	<=23.98	Pass
			13	21.87	1.21	23.08	<=23.98	Pass
			24	21.69	1.21	22.90	<=23.98	Pass
		12	0	20.30	1.21	21.51	<=23.98	Pass
			6	20.45	1.21	21.66	<=23.98	Pass
			13	20.35	1.21	21.56	<=23.98	Pass
		25	0	19.85	1.21	21.06	<=23.98	Pass
	2310	1	0	21.67	1.21	22.88	<=23.98	Pass
			13	21.69	1.21	22.90	<=23.98	Pass
			24	21.72	1.21	22.93	<=23.98	Pass
		12	0	20.29	1.21	21.50	<=23.98	Pass
			6	20.41	1.21	21.62	<=23.98	Pass
			13	20.31	1.21	21.52	<=23.98	Pass
		25	0	19.89	1.21	21.10	<=23.98	Pass
	2312.5	1	0	21.79	1.21	23.00	<=23.98	Pass
			13	21.87	1.21	23.08	<=23.98	Pass
			24	21.71	1.21	22.92	<=23.98	Pass
		12	0	20.44	1.21	21.65	<=23.98	Pass
			6	20.42	1.21	21.63	<=23.98	Pass
			13	20.27	1.21	21.48	<=23.98	Pass
		25	0	19.91	1.21	21.12	<=23.98	Pass
Note1: EIRP/5MHz=Conducted Power+Antenna Gain-2.15								

1.2.2 Test Graph

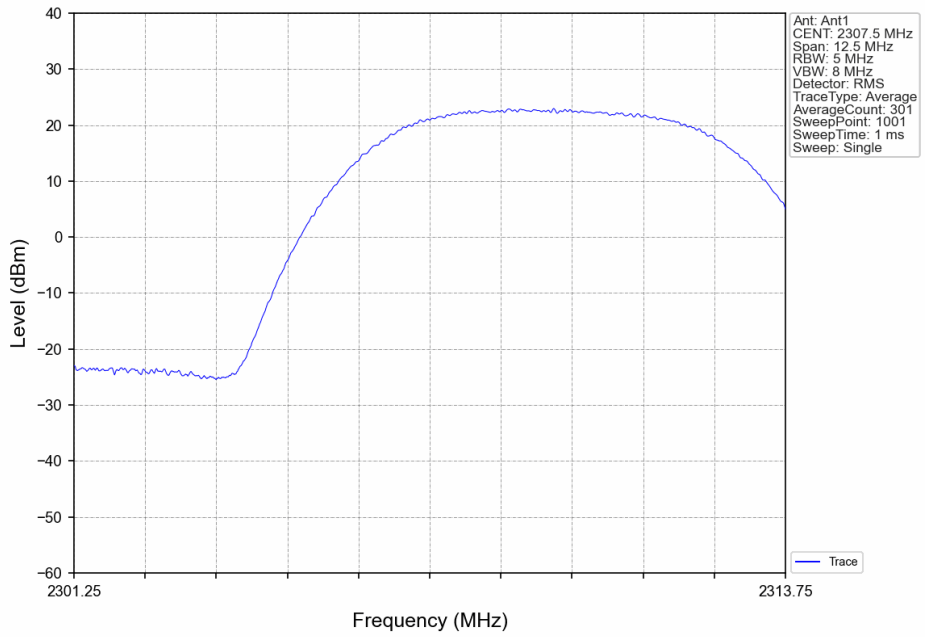
Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_0_NTNV



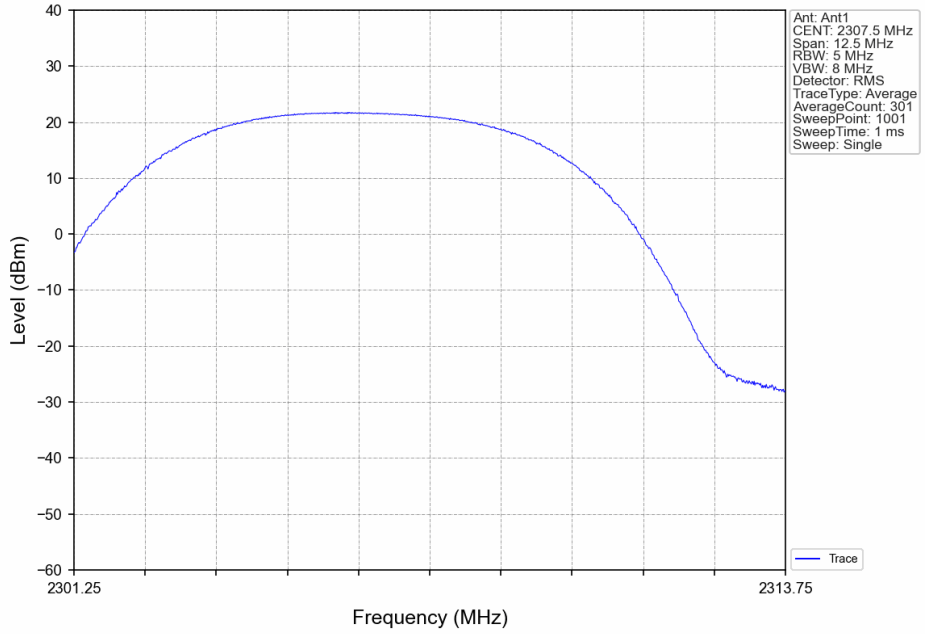
Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_13_NTNV



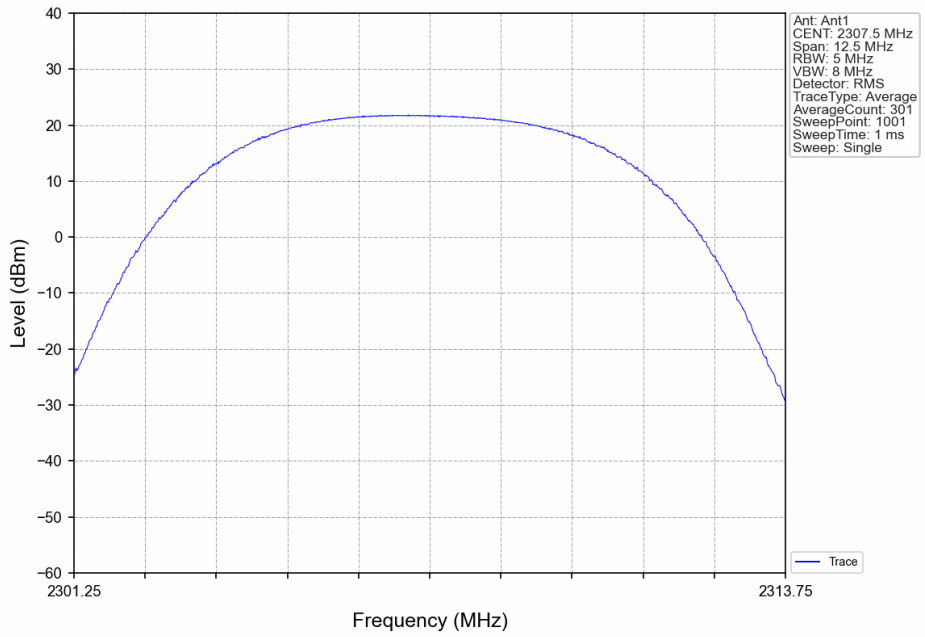
Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_24_NTNV



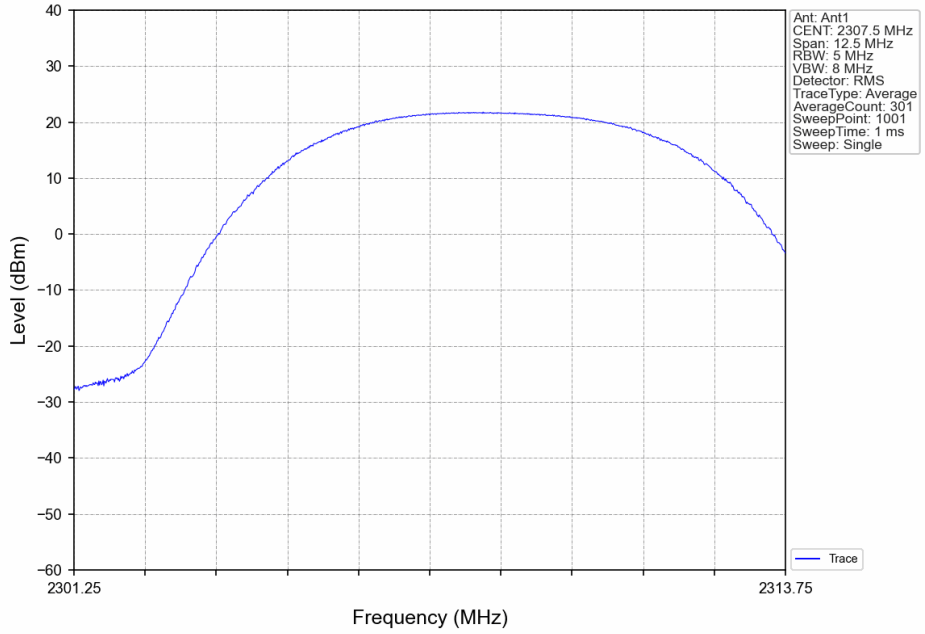
Band30_5MHz_QPSK_LCH_2307.5MHz_RB_12_0_NTNV



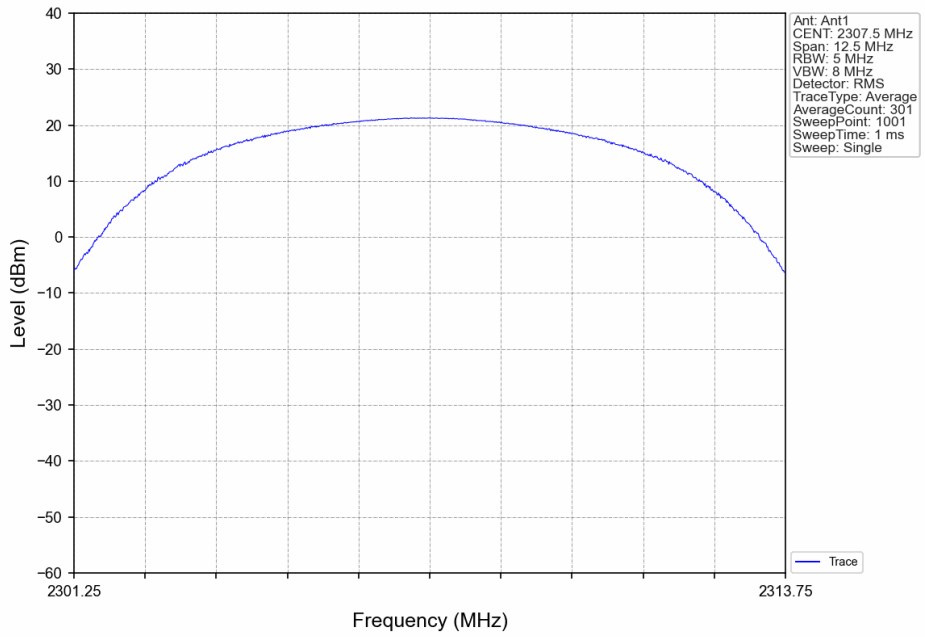
Band30_5MHz_QPSK_LCH_2307.5MHz_RB_12_6_NTNV



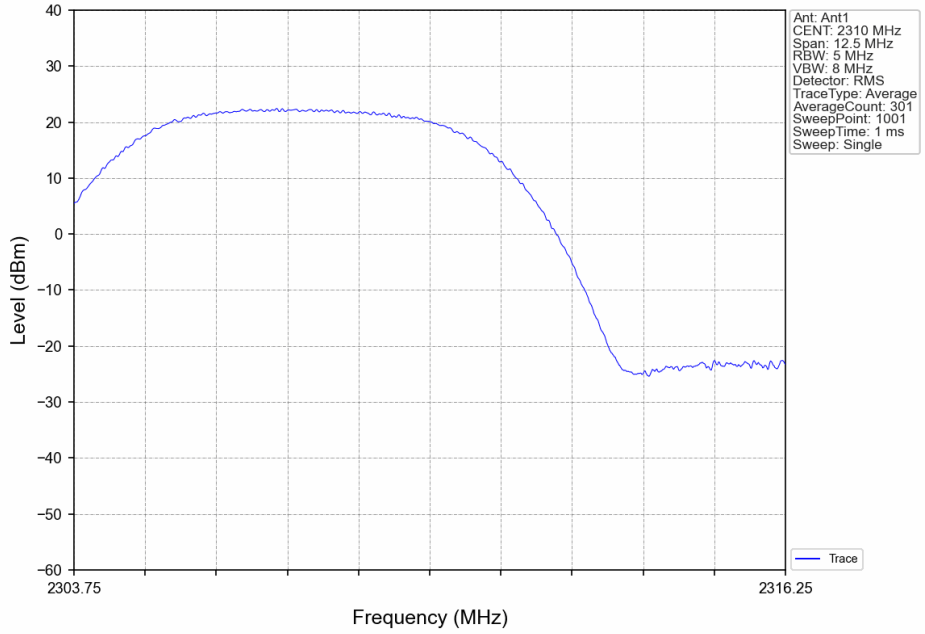
Band30_5MHz_QPSK_LCH_2307.5MHz_RB_12_13_NTNV



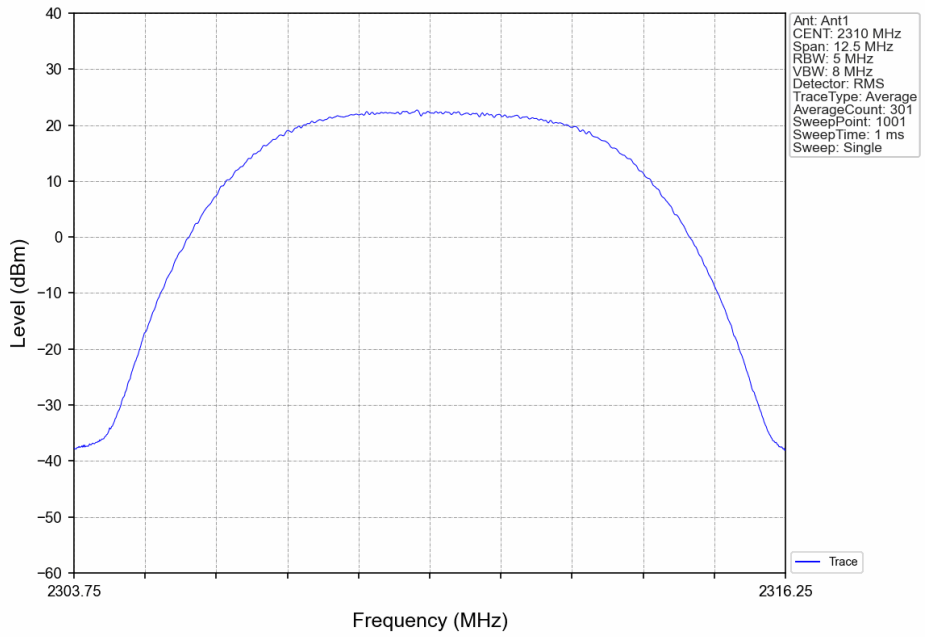
Band30_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV



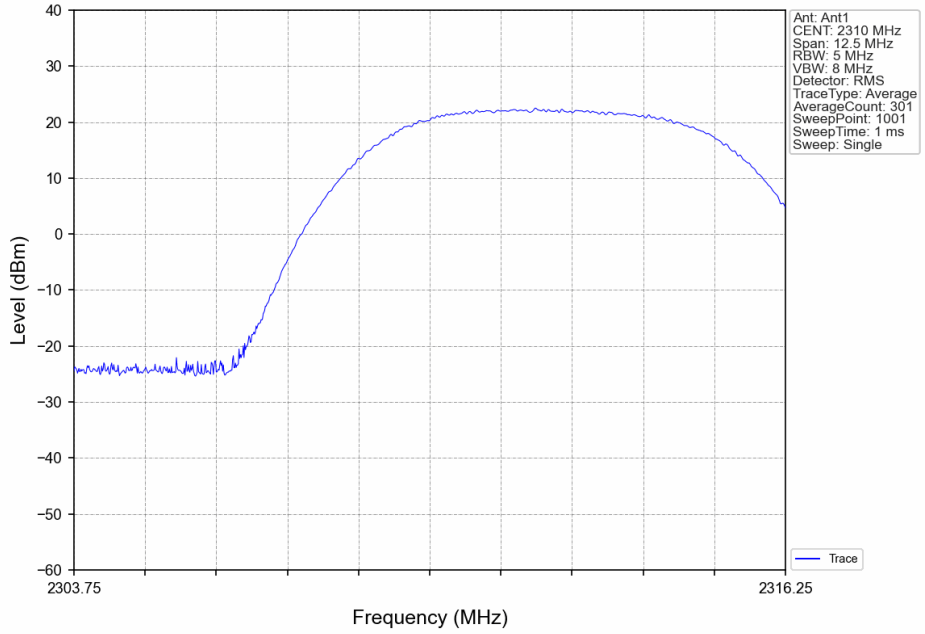
Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



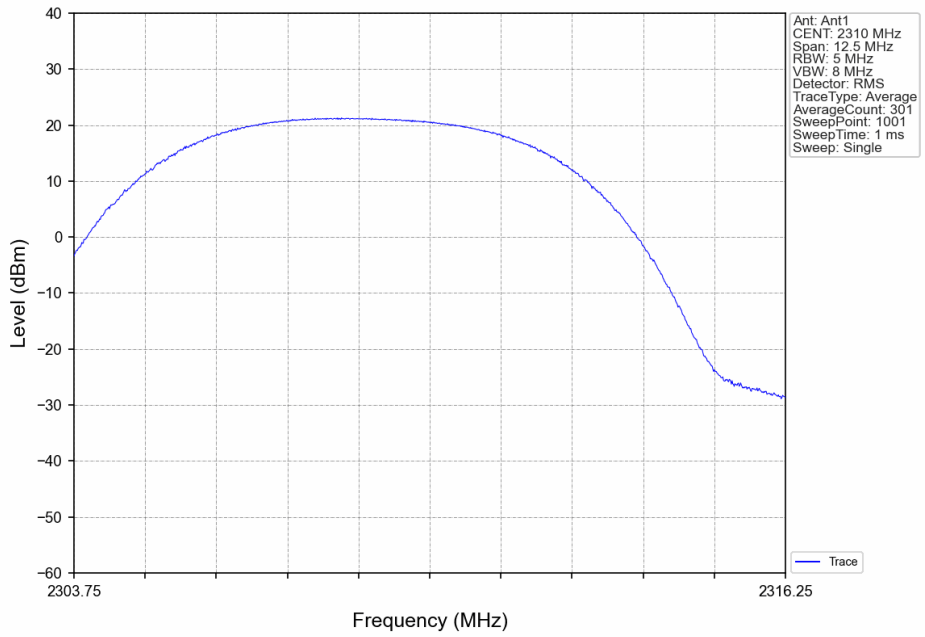
Band30_5MHz_QPSK_MCH_2310MHz_RB_1_13_NTNV



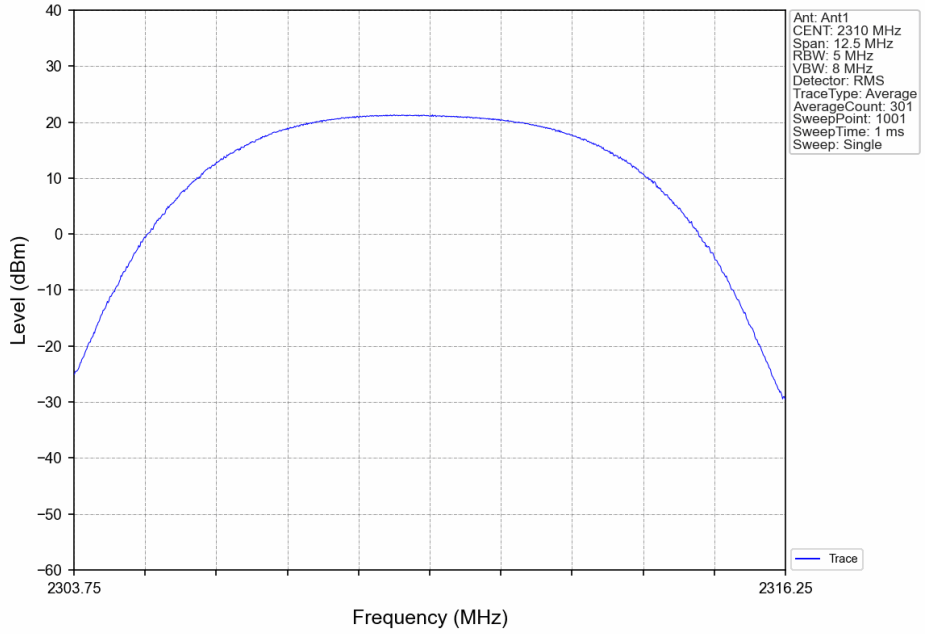
Band30_5MHz_QPSK_MCH_2310MHz_RB_1_24_NTNV



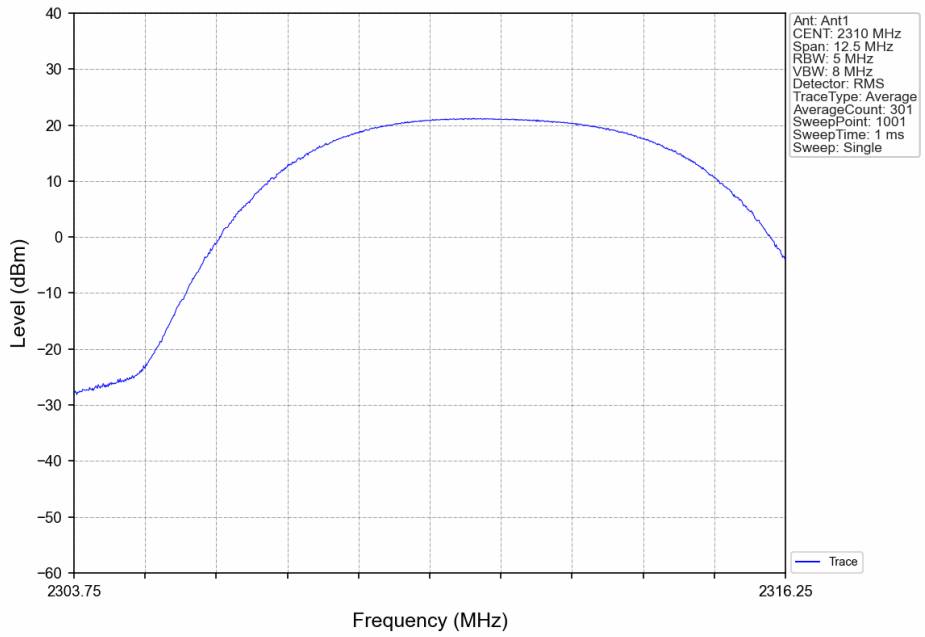
Band30_5MHz_QPSK_MCH_2310MHz_RB_12_0_NTNV



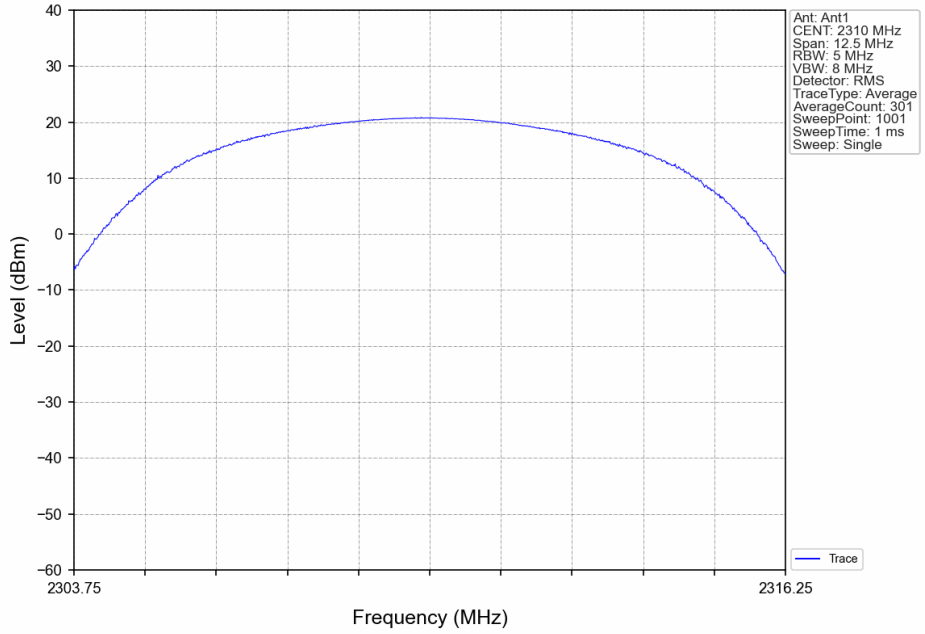
Band30_5MHz_QPSK_MCH_2310MHz_RB_12_6_NTNV



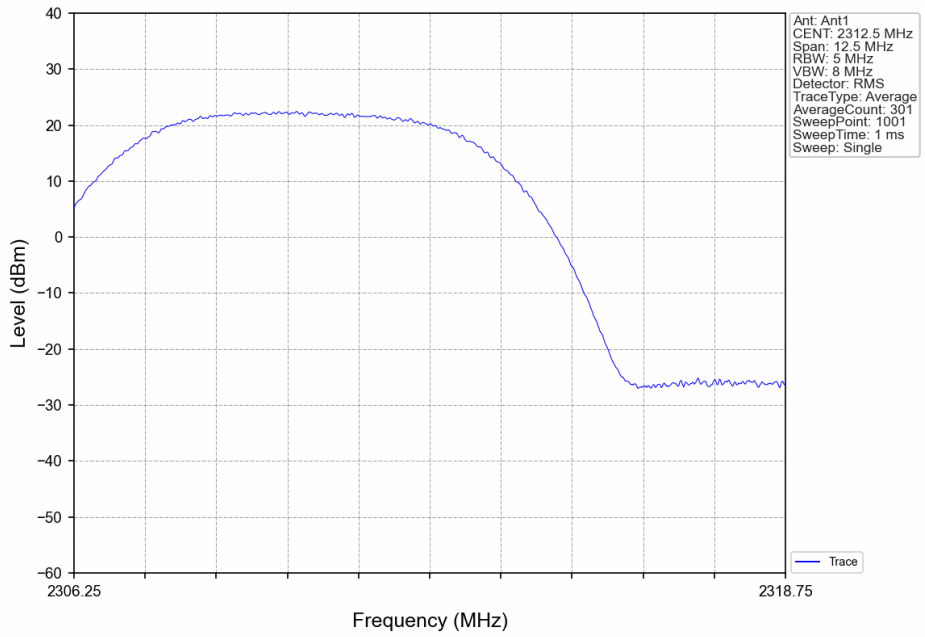
Band30_5MHz_QPSK_MCH_2310MHz_RB_12_13_NTNV



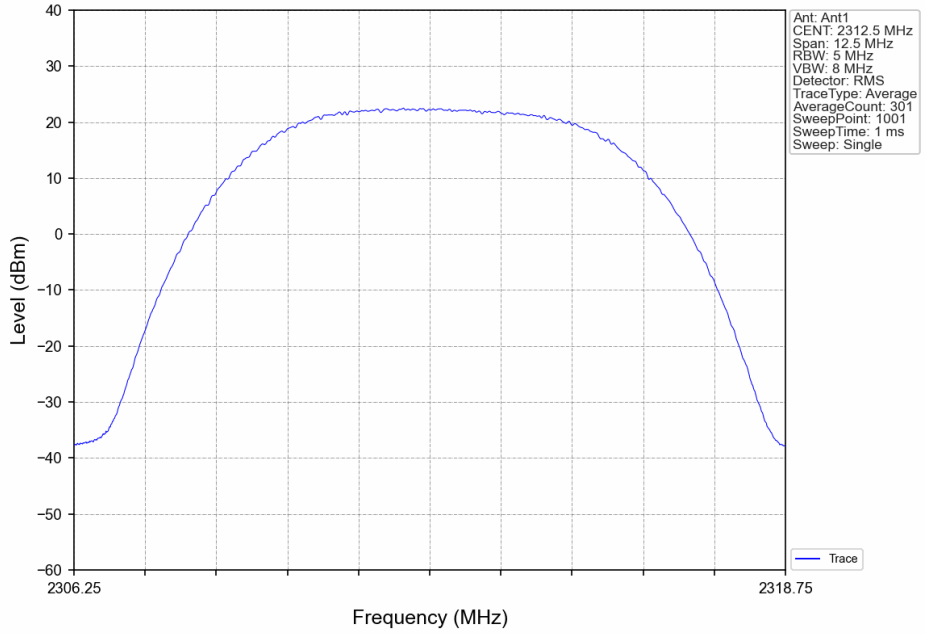
Band30_5MHz_QPSK_MCH_2310MHz_RB_25_0_NTNV



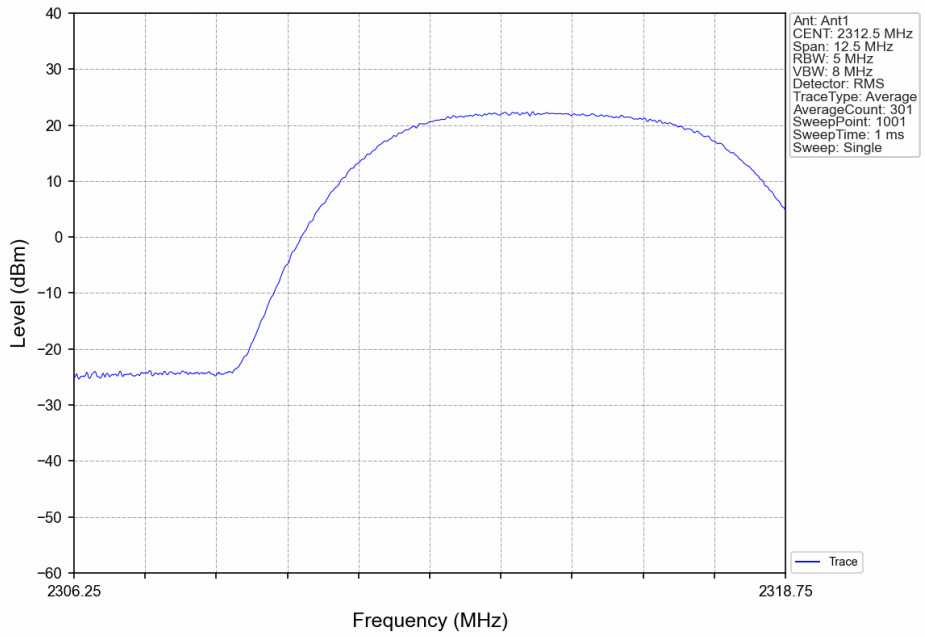
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



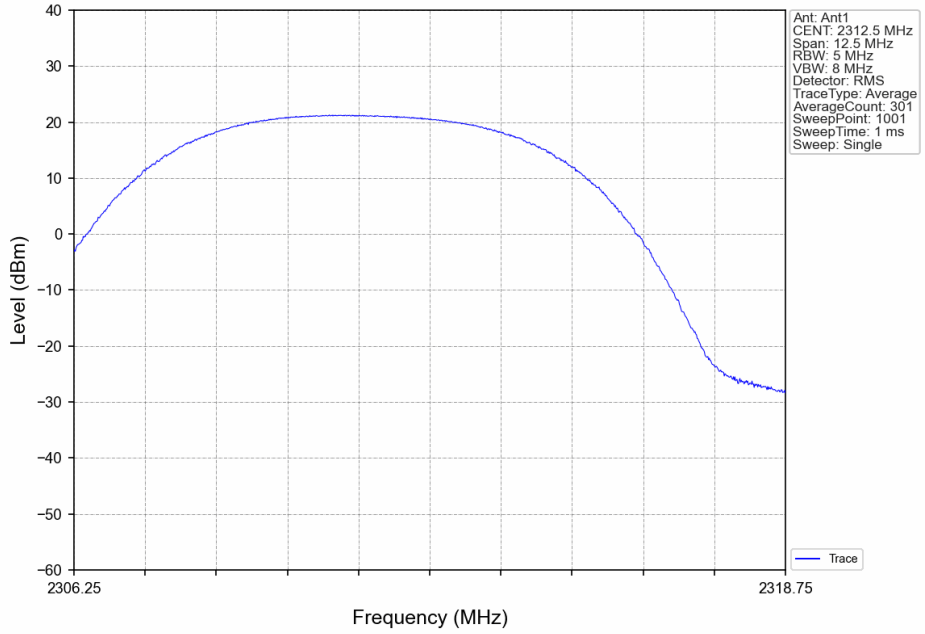
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_13_NTNV



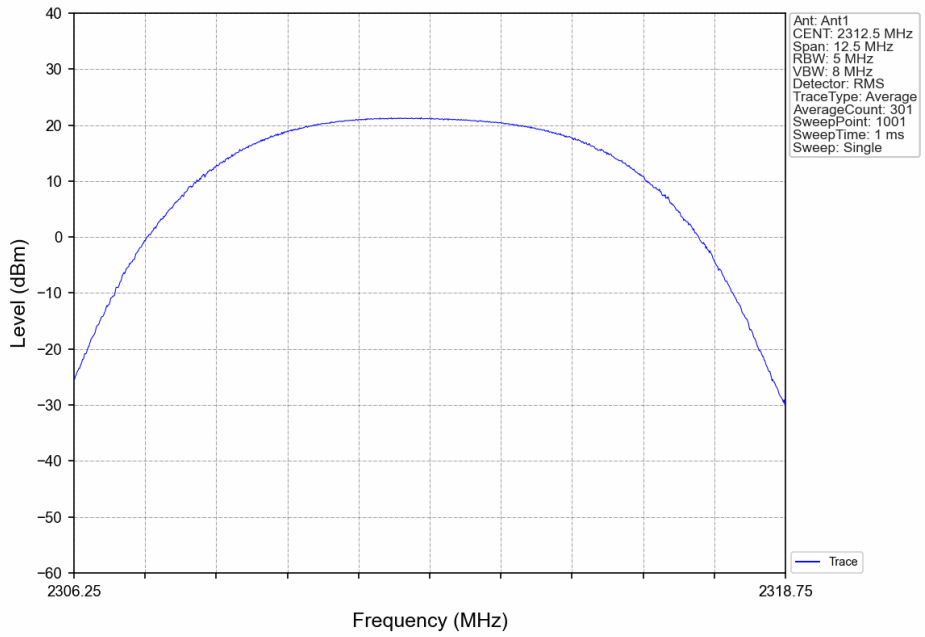
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_24_NTNV



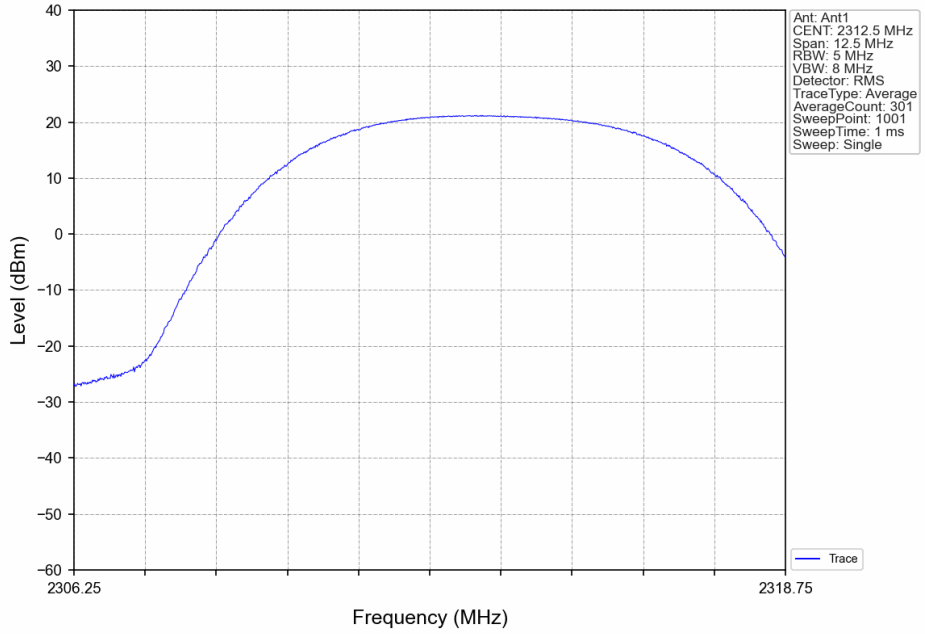
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_12_0_NTNV



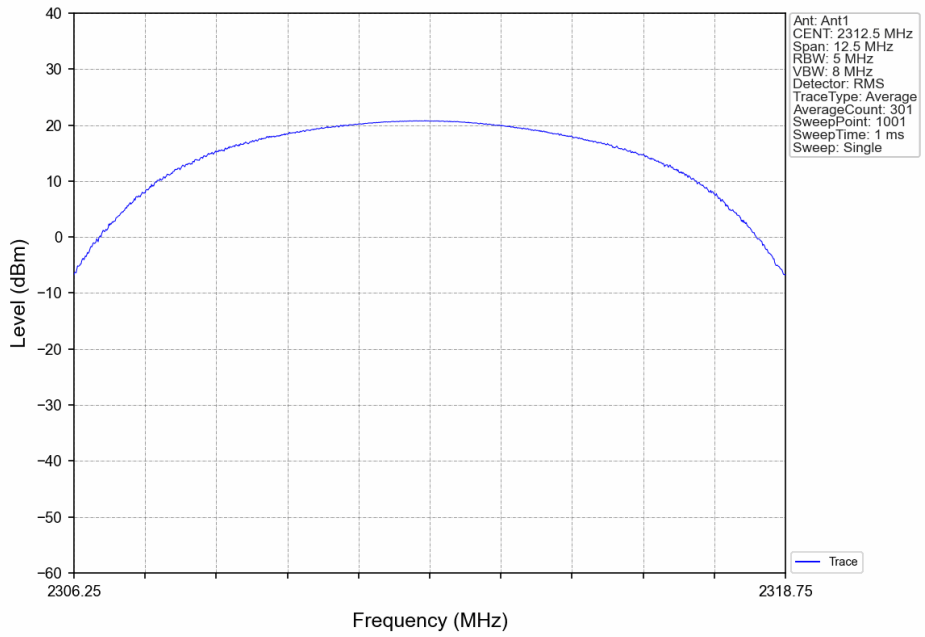
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_12_6_NTNV



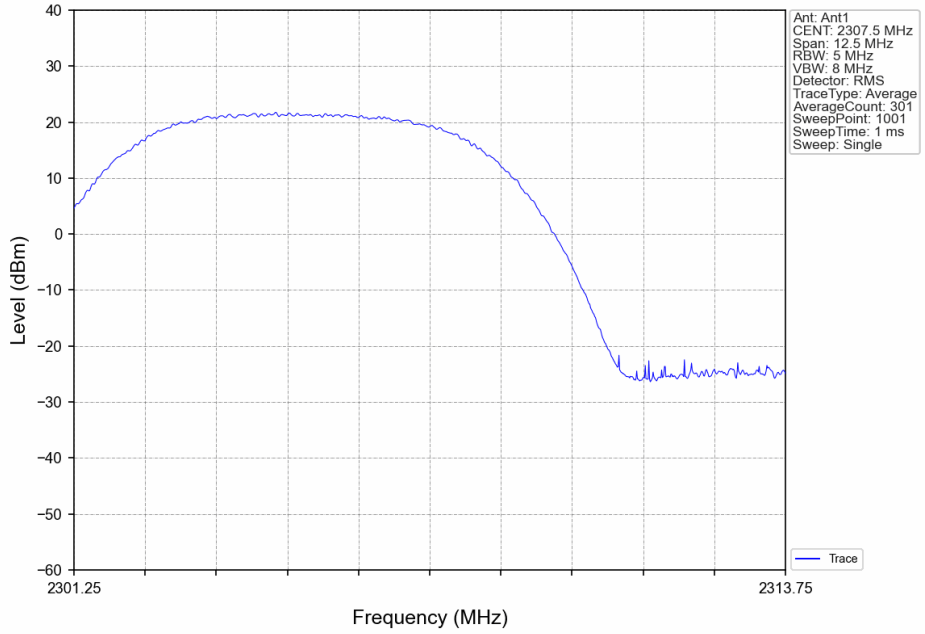
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_12_13_NTNV



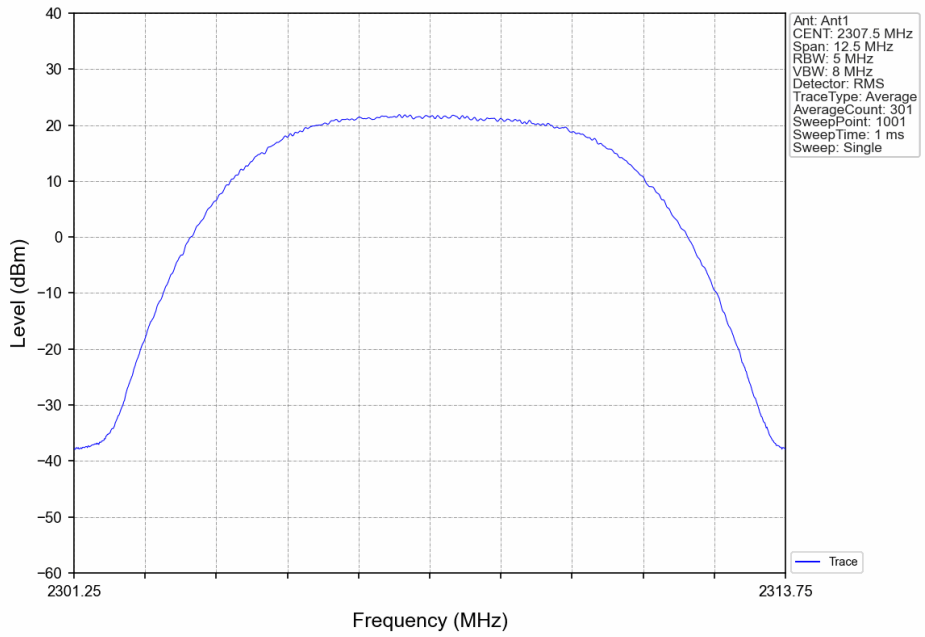
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



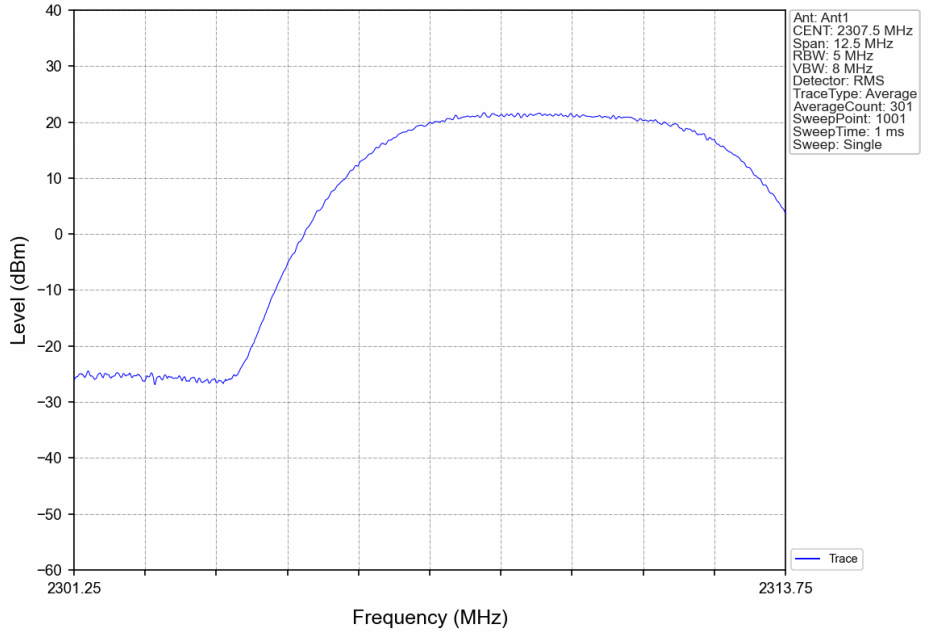
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV



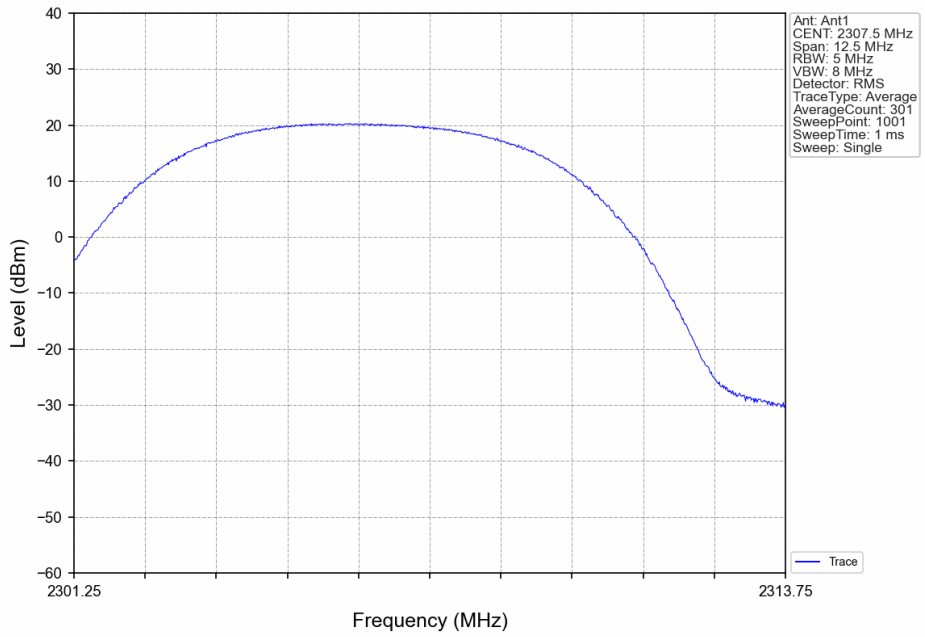
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_13_NTNV



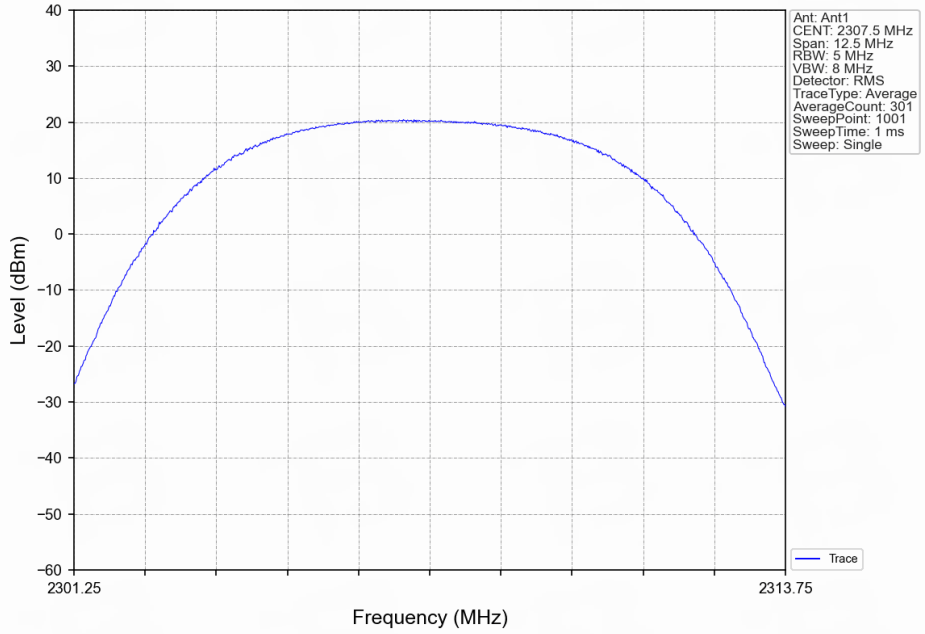
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_24_NTNV



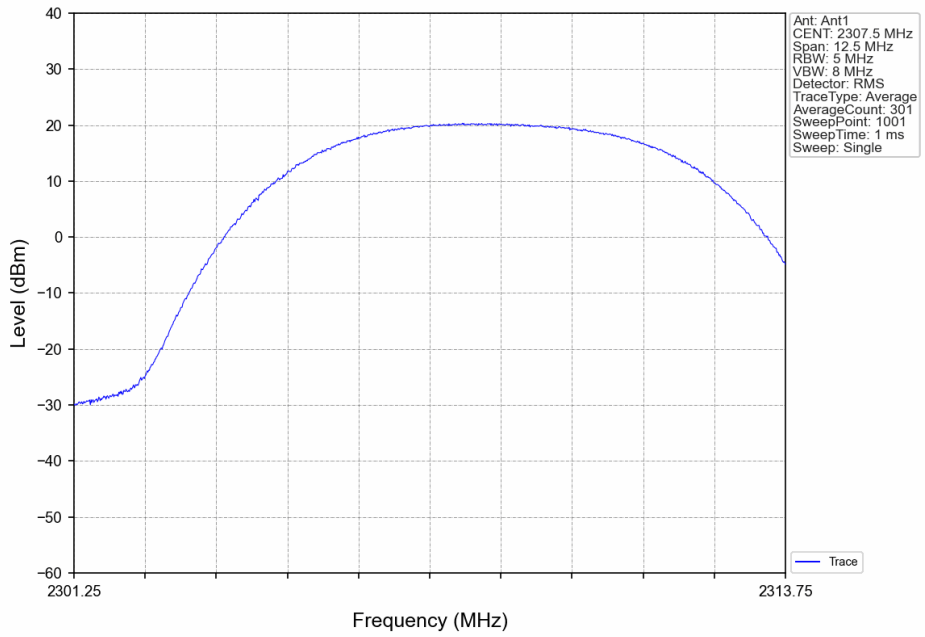
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_12_0_NTNV



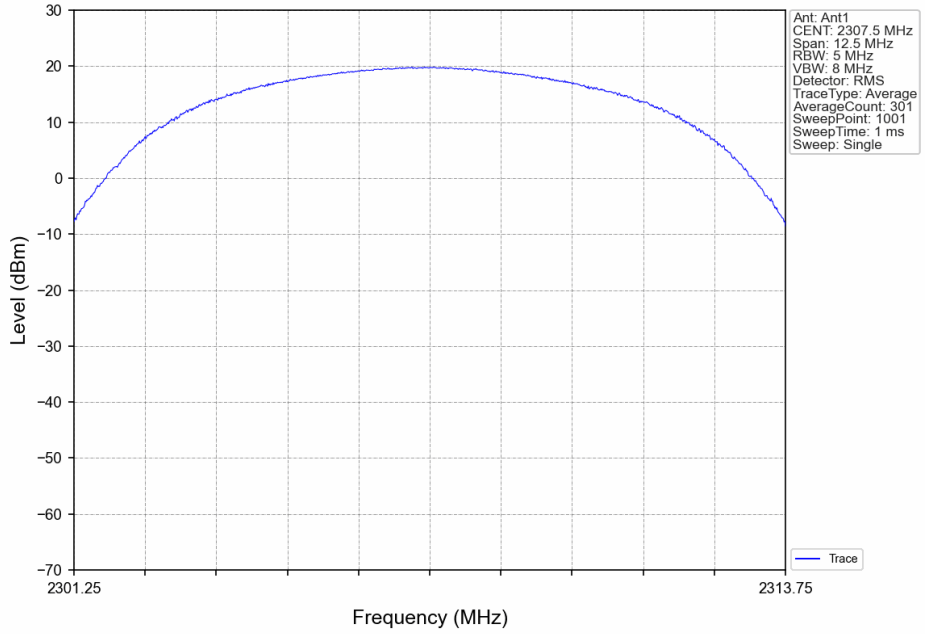
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_12_6_NTNV



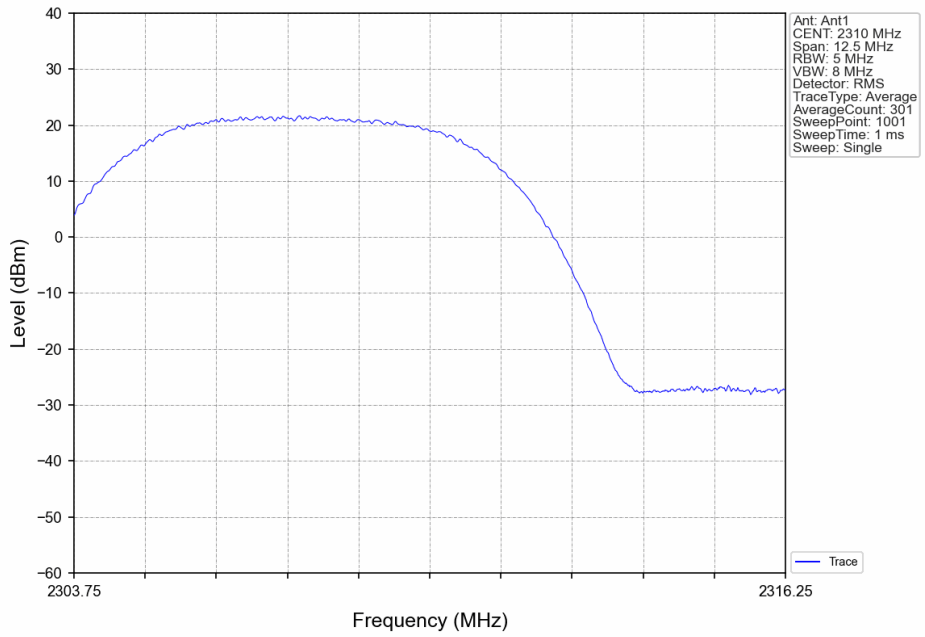
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_12_13_NTNV



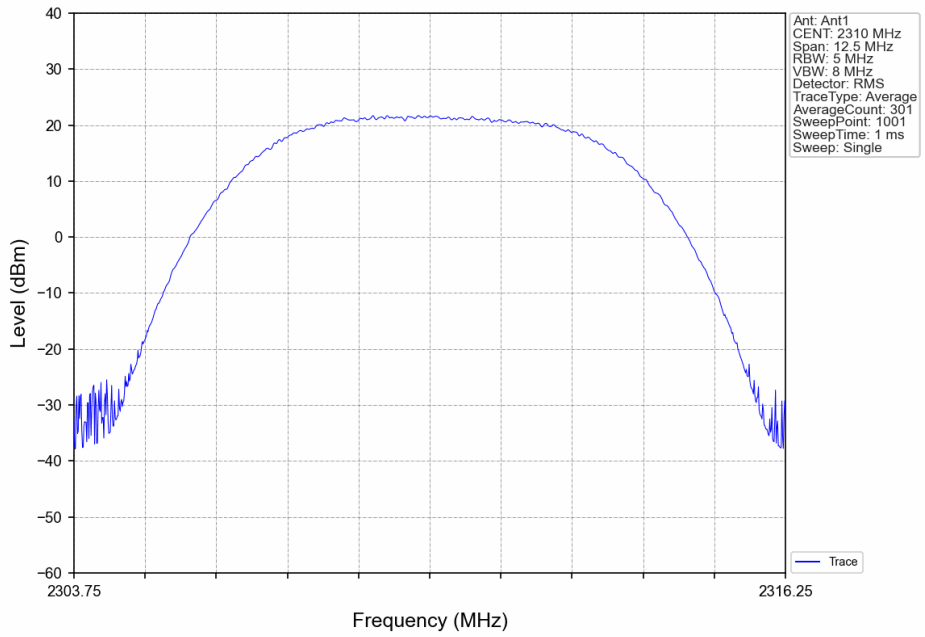
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



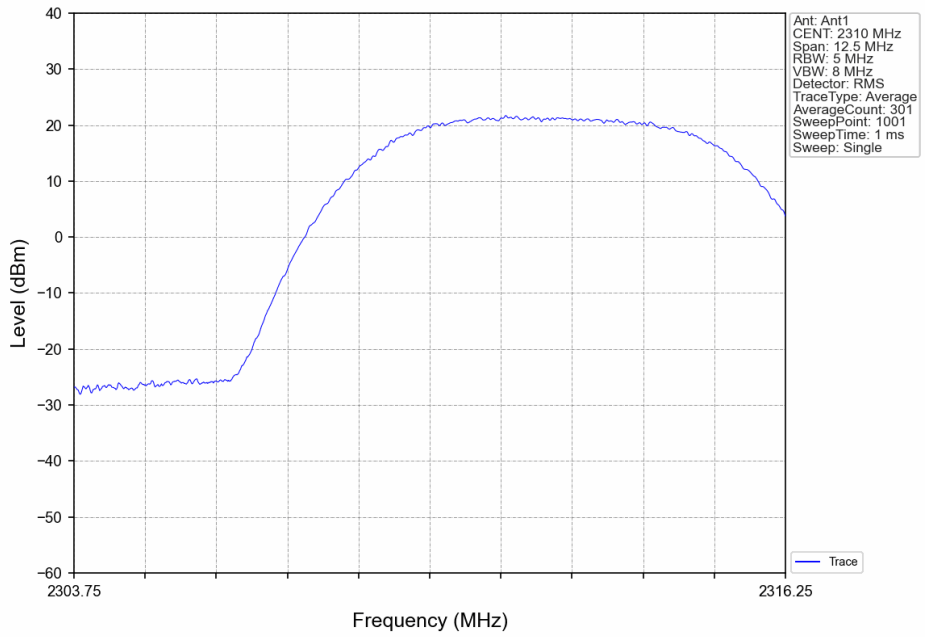
Band30_5MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV



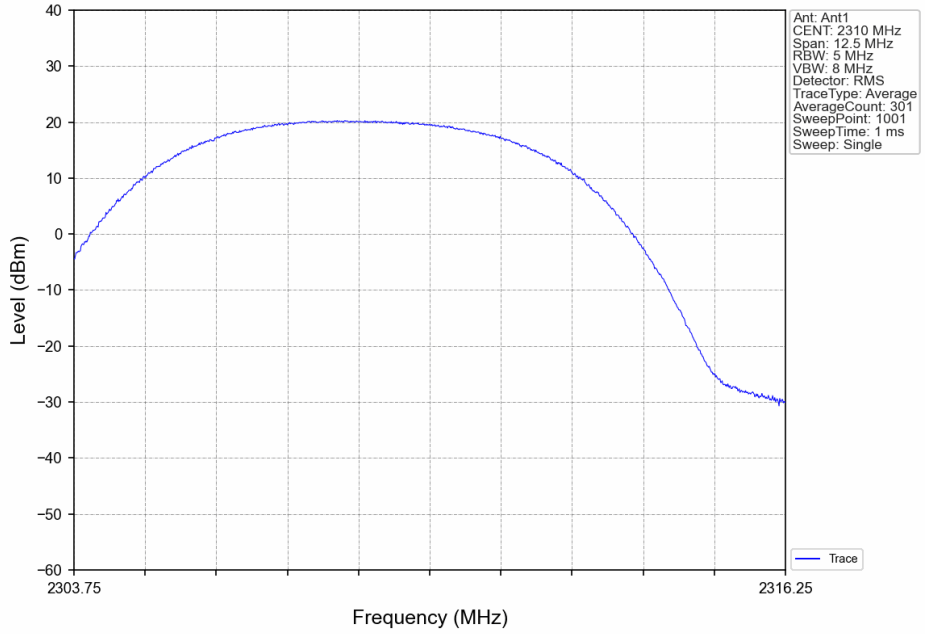
Band30_5MHz_16QAM_MCH_2310MHz_RB_1_13_NTNV



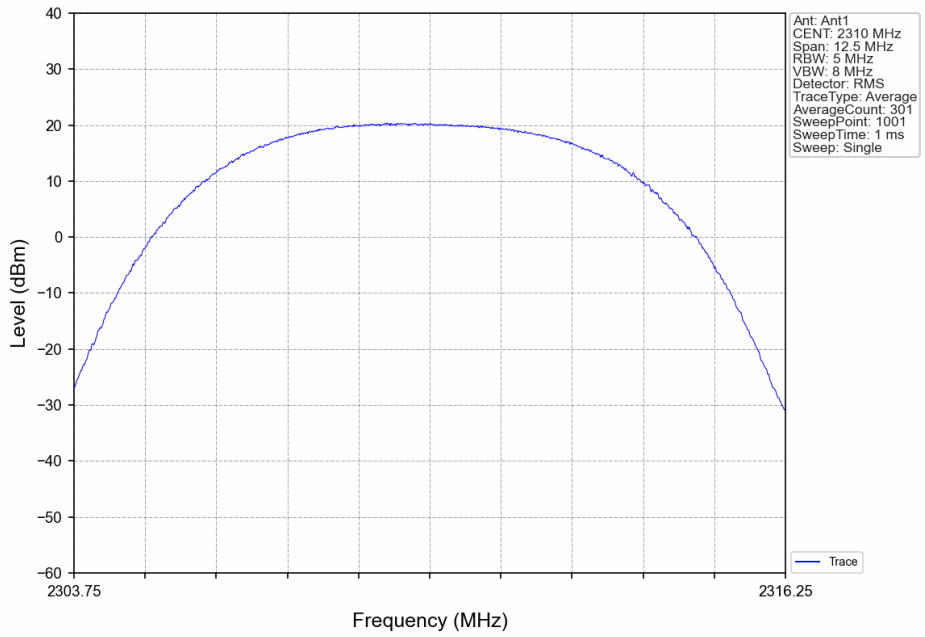
Band30_5MHz_16QAM_MCH_2310MHz_RB_1_24_NTNV



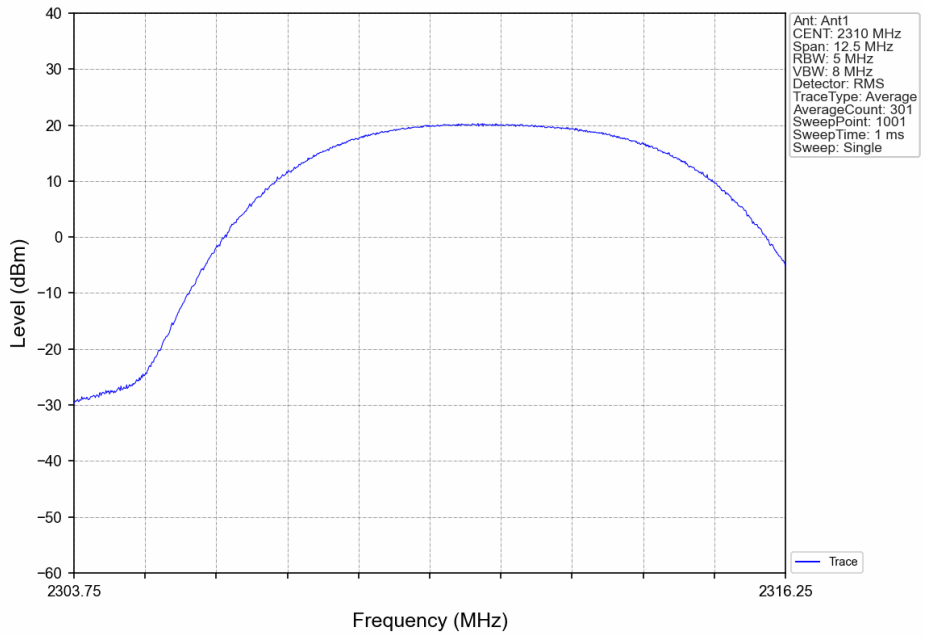
Band30_5MHz_16QAM_MCH_2310MHz_RB_12_0_NTNV



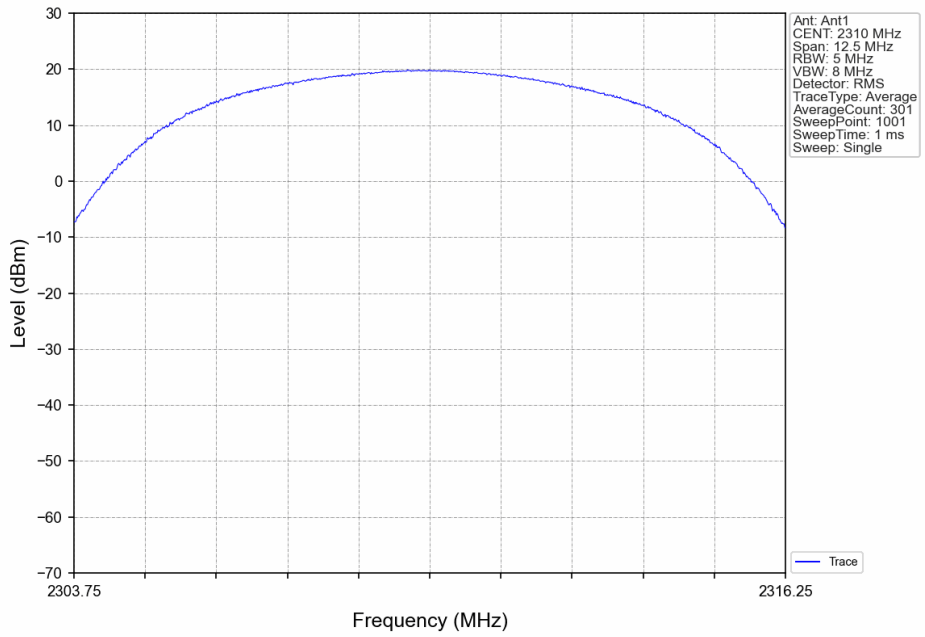
Band30_5MHz_16QAM_MCH_2310MHz_RB_12_6_NTNV



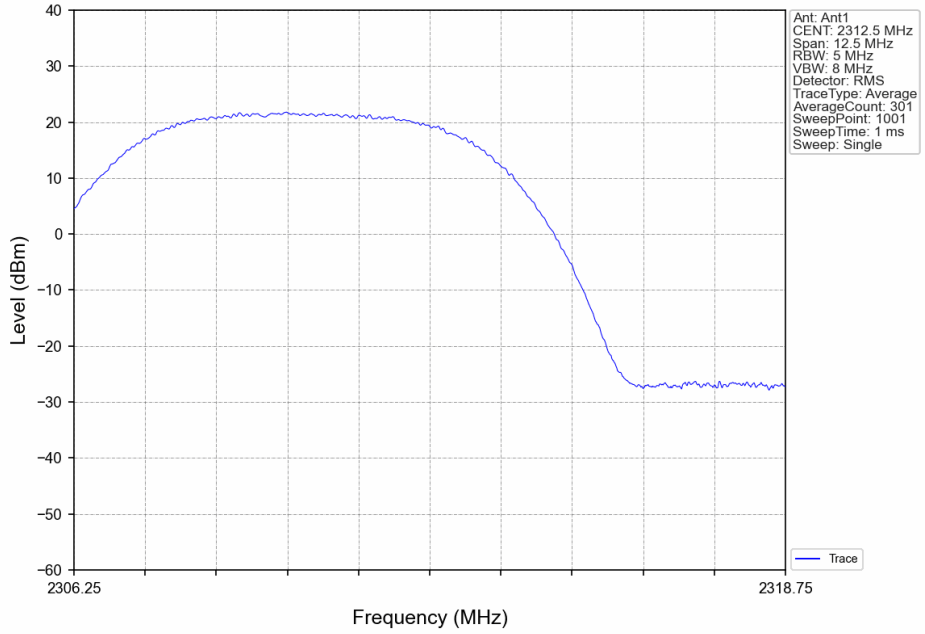
Band30_5MHz_16QAM_MCH_2310MHz_RB_12_13_NTNV



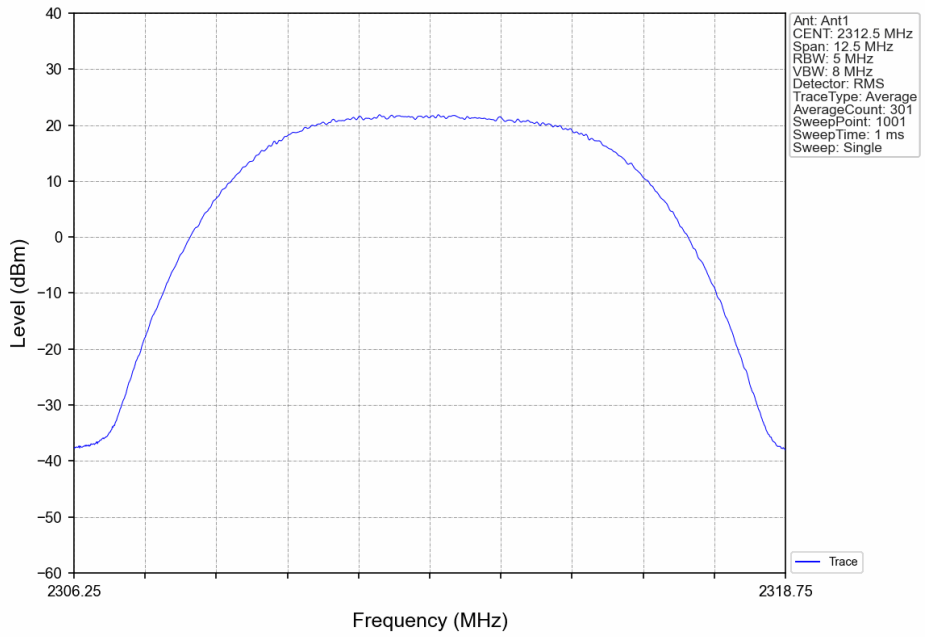
Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



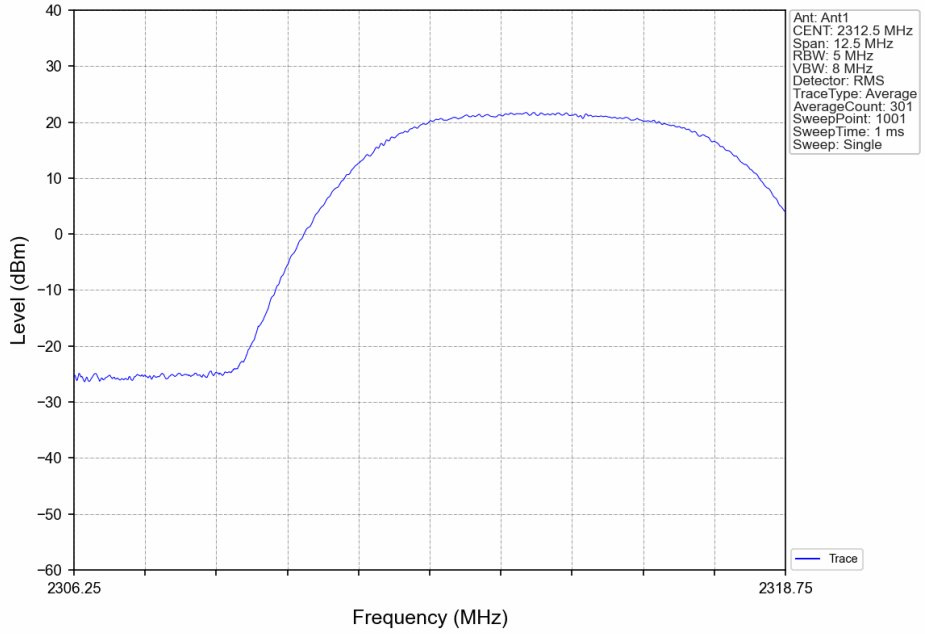
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_1_0_NTNV



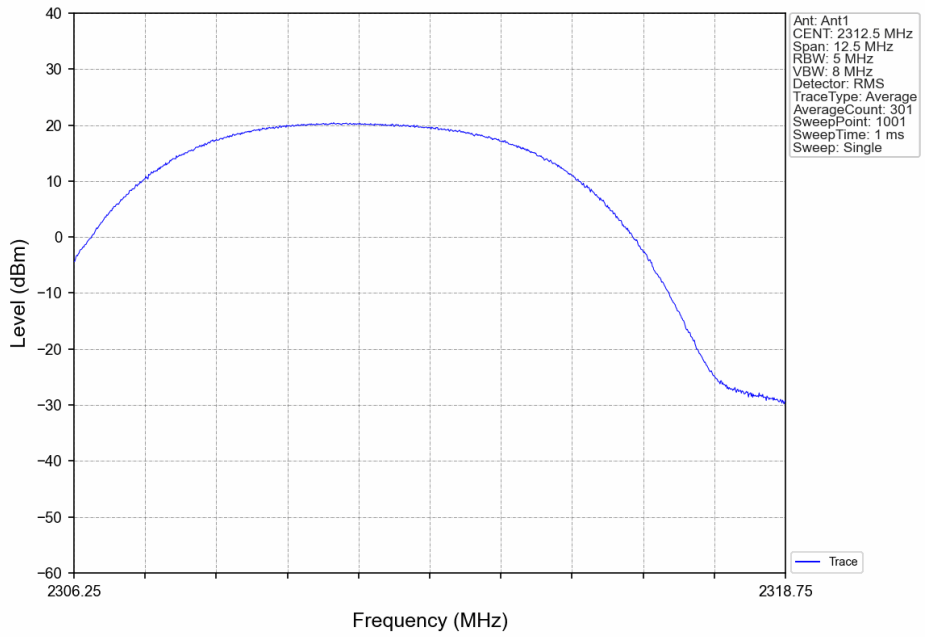
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_1_13_NTNV



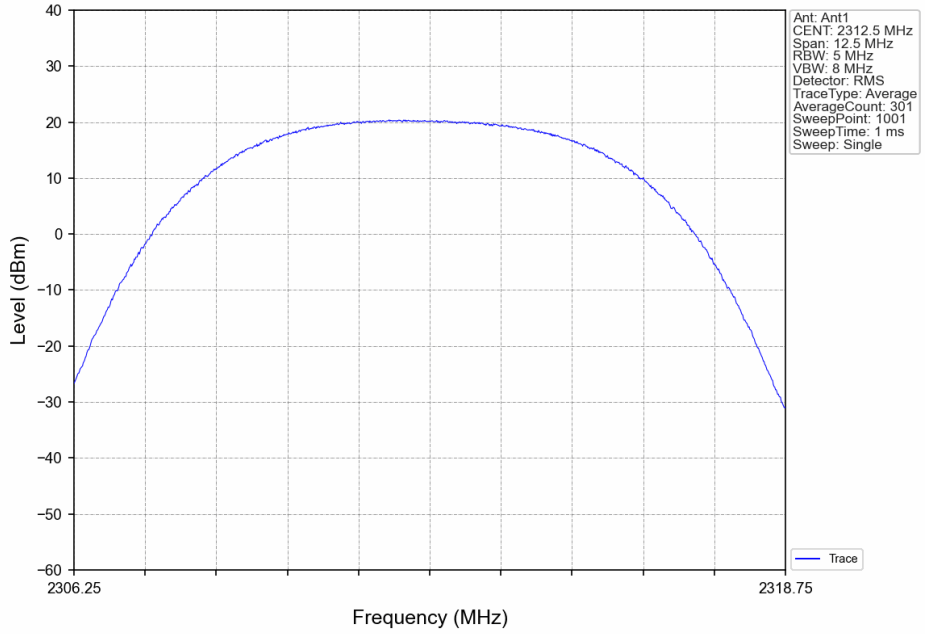
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_1_24_NTNV



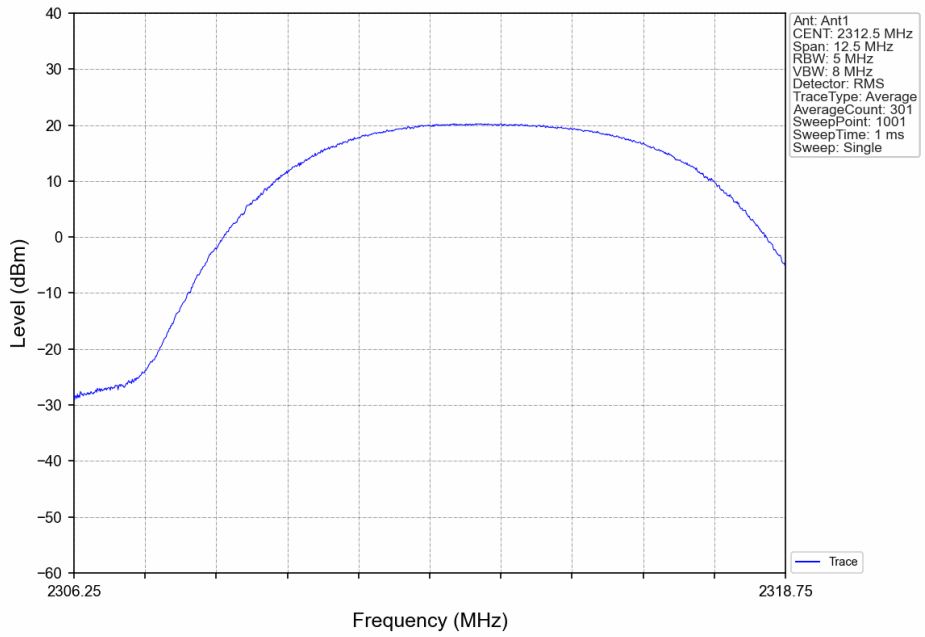
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_12_0_NTNV



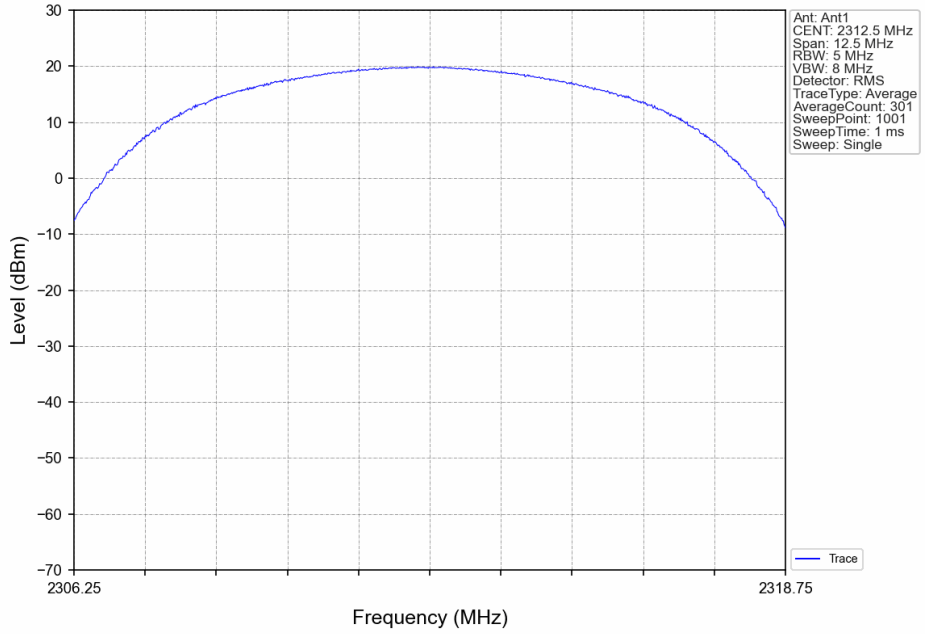
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_12_6_NTNV



Band30_5MHz_16QAM_HCH_2312.5MHz_RB_12_13_NTNV



Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



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	20.53	1.21	21.74	<=23.98	Pass
			25	20.69	1.21	21.90	<=23.98	Pass
			49	20.42	1.21	21.63	<=23.98	Pass
		25	0	19.51	1.21	20.72	<=23.98	Pass
			13	19.59	1.21	20.80	<=23.98	Pass
			25	19.52	1.21	20.73	<=23.98	Pass
		50	0	19.53	1.21	20.74	<=23.98	Pass
16QAM	2310	1	0	19.56	1.21	20.77	<=23.98	Pass
			25	19.68	1.21	20.89	<=23.98	Pass
			49	19.48	1.21	20.69	<=23.98	Pass
		25	0	18.15	1.21	19.36	<=23.98	Pass
			13	18.15	1.21	19.36	<=23.98	Pass
			25	20.10	1.21	21.31	<=23.98	Pass
		50	0	19.58	1.21	20.79	<=23.98	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

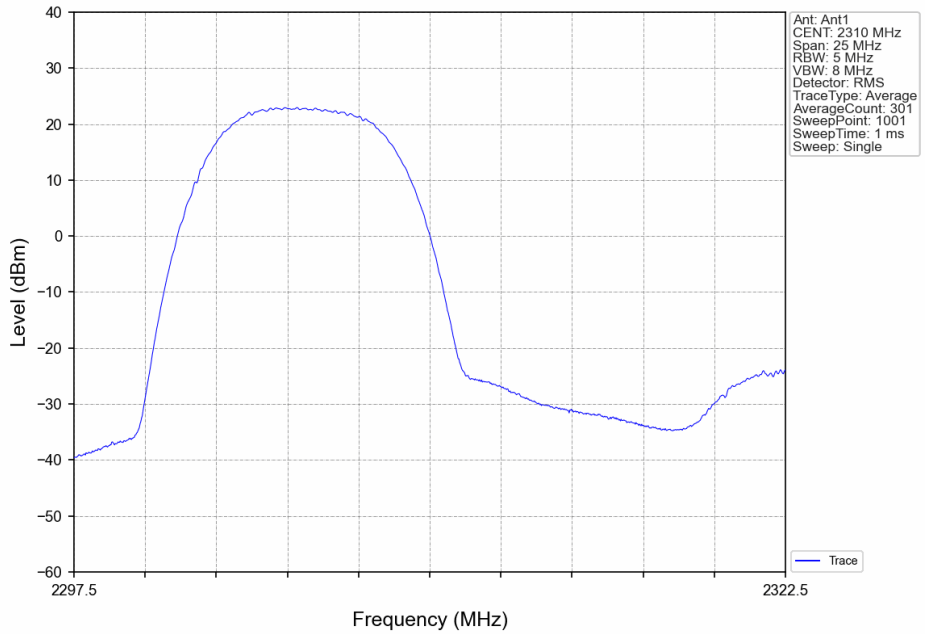
1.4 B30_10MHz_EIRP/5MHz

1.4.1 Test Result

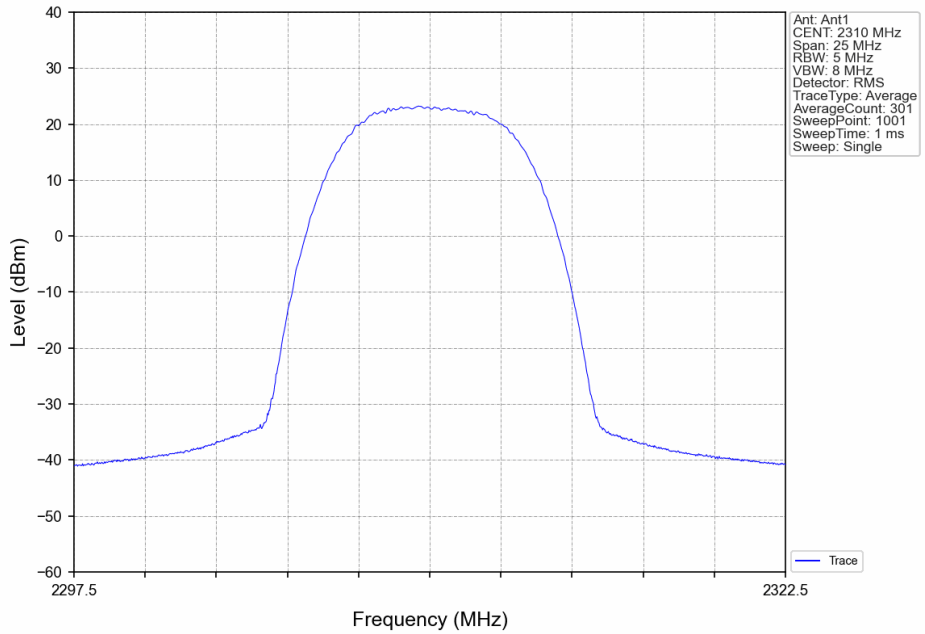
Band: 30 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/5MHz (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	22.36	1.21	23.57	<=23.98	Pass
			25	22.49	1.21	23.7	<=23.98	Pass
			49	22.35	1.21	23.56	<=23.98	Pass
		25	0	21.34	1.21	22.55	<=23.98	Pass
			13	21.42	1.21	22.63	<=23.98	Pass
			25	21.31	1.21	22.52	<=23.98	Pass
		50	0	19.32	1.21	20.53	<=23.98	Pass
16QAM	2310	1	0	22.12	1.21	23.33	<=23.98	Pass
			25	22.27	1.21	23.48	<=23.98	Pass
			49	22.19	1.21	23.40	<=23.98	Pass
		25	0	20.18	1.21	21.39	<=23.98	Pass
			13	20.00	1.21	21.21	<=23.98	Pass
			25	21.80	1.21	23.01	<=23.98	Pass
		50	0	19.70	1.21	20.91	<=23.98	Pass
Note1: EIRP/5MHz=Conducted Power+Antenna Gain-2.15								

1.4.2 Test Graph

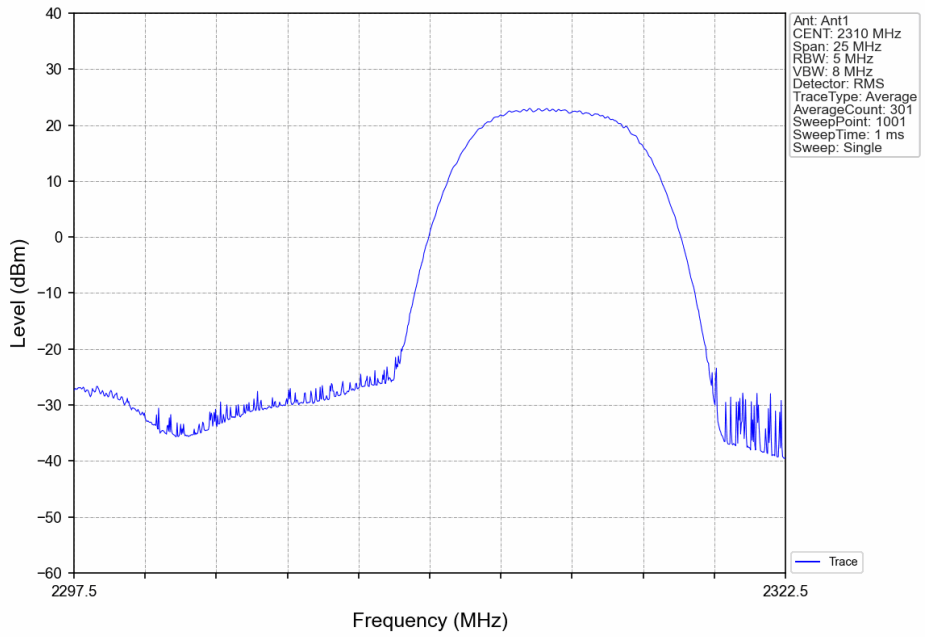
Band30_10MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



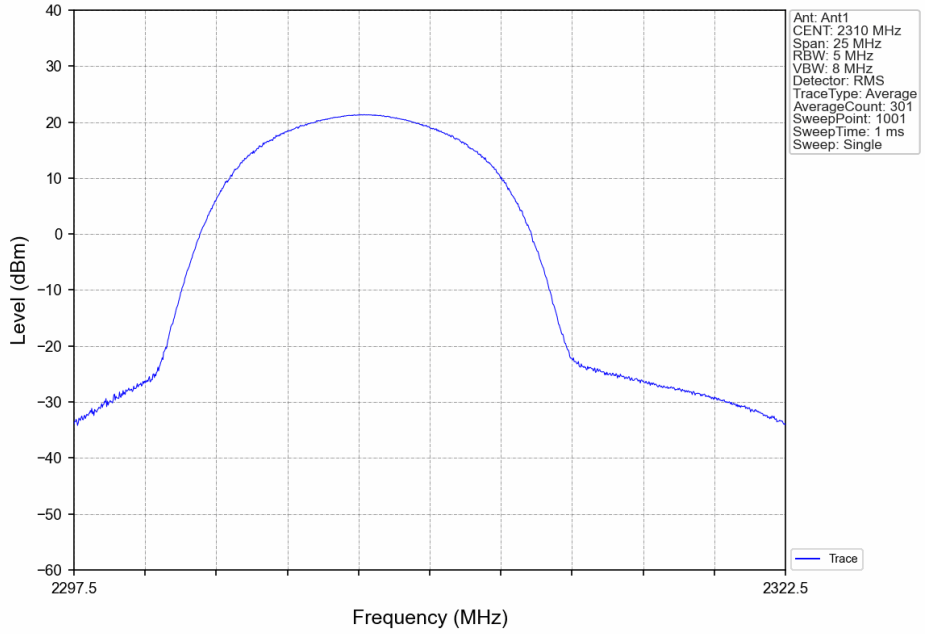
Band30_10MHz_QPSK_MCH_2310MHz_RB_1_25_NTNV



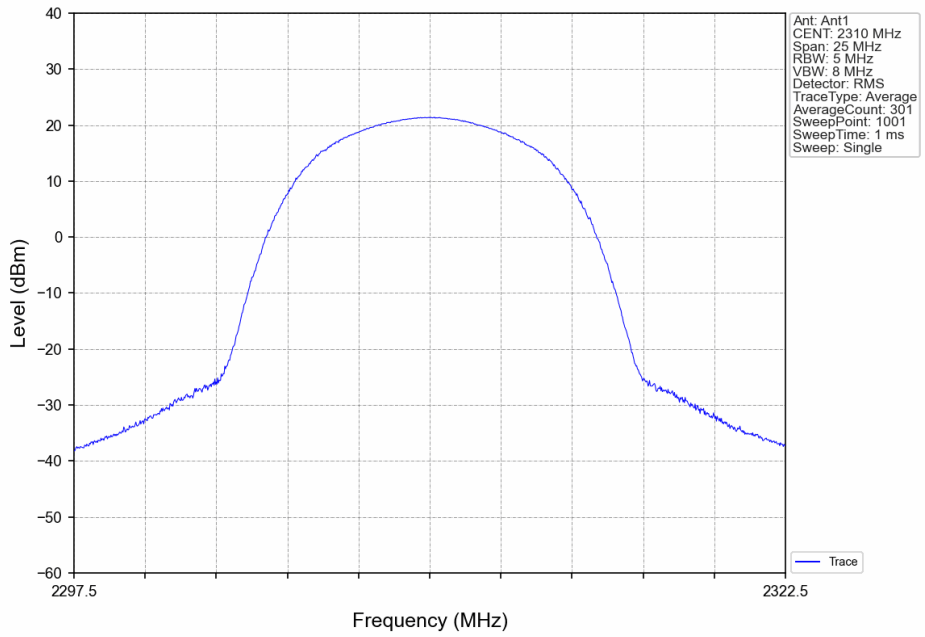
Band30_10MHz_QPSK_MCH_2310MHz_RB_1_49_NTNV



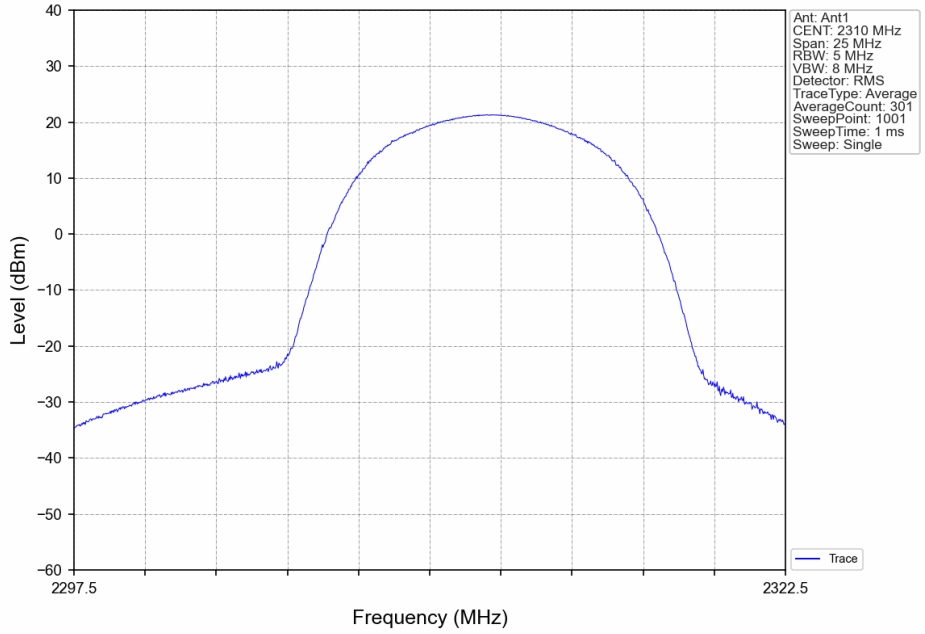
Band30_10MHz_QPSK_MCH_2310MHz_RB_25_0_NTNV



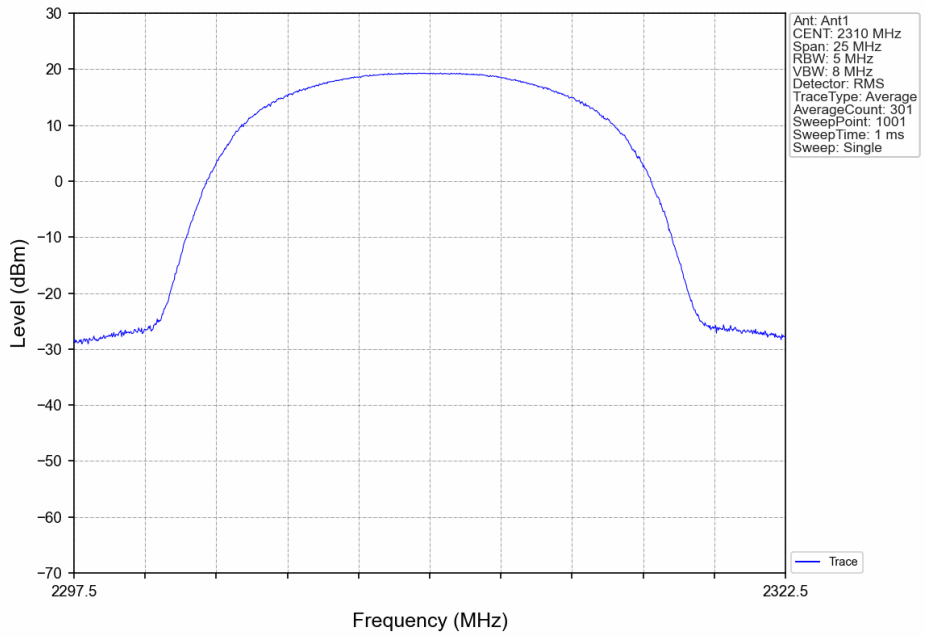
Band30_10MHz_QPSK_MCH_2310MHz_RB_25_13_NTNV



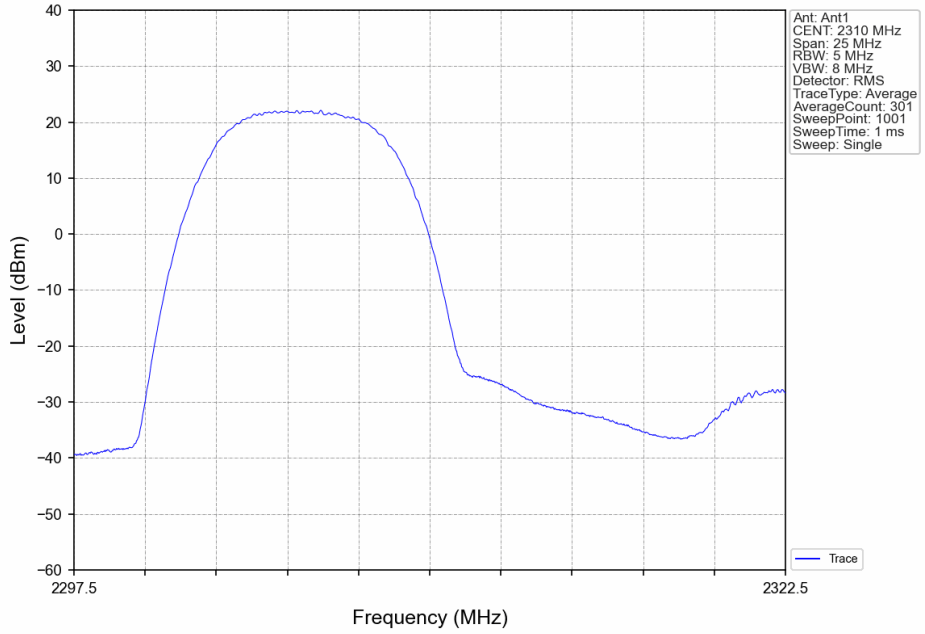
Band30_10MHz_QPSK_MCH_2310MHz_RB_25_25_NTNV



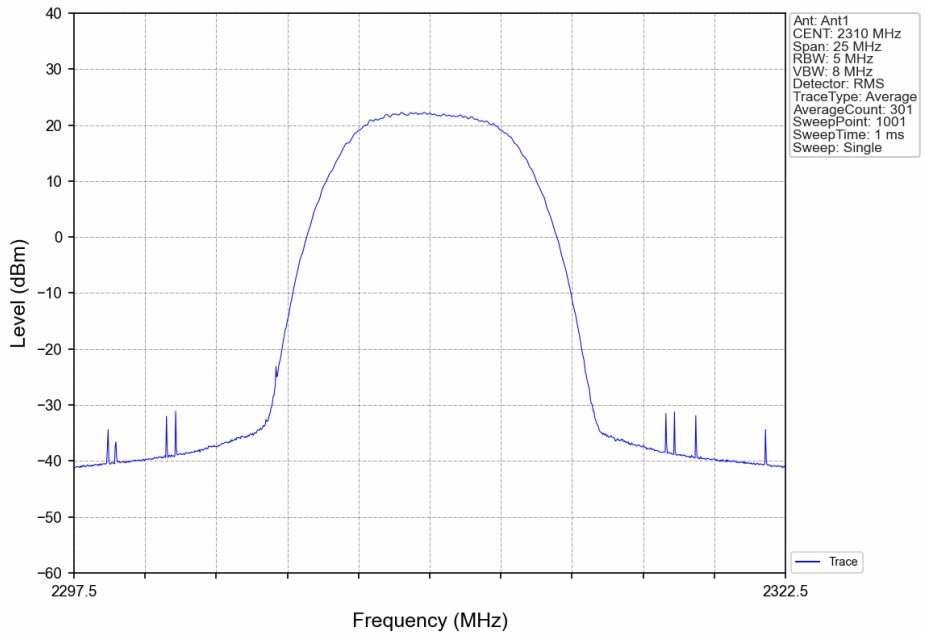
Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



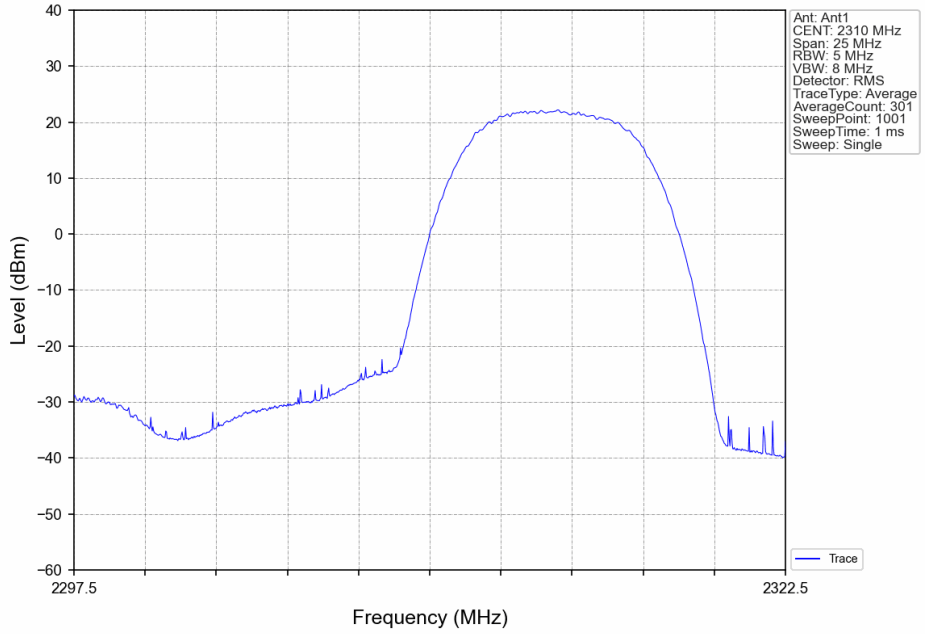
Band30_10MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV



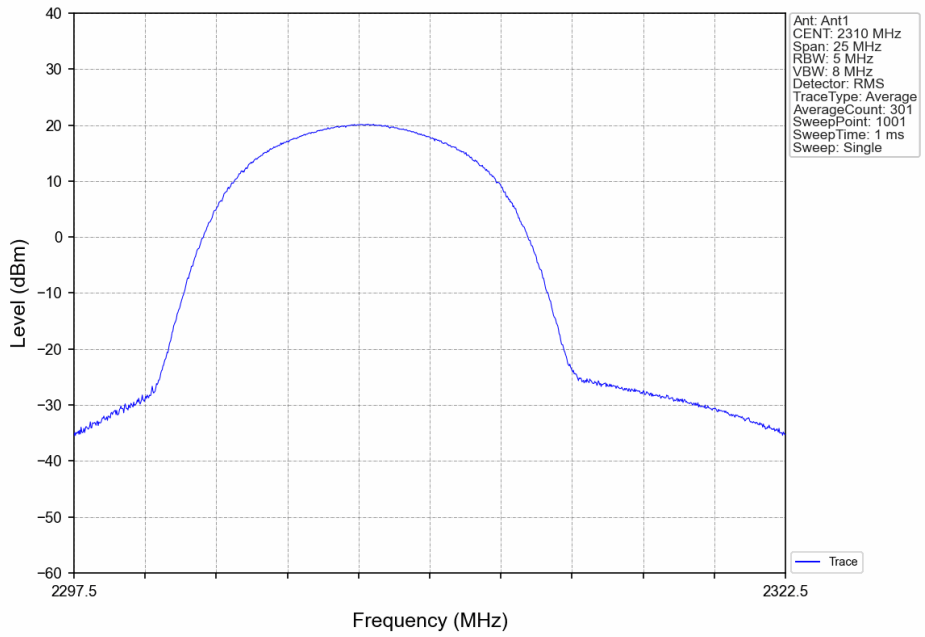
Band30_10MHz_16QAM_MCH_2310MHz_RB_1_25_NTNV



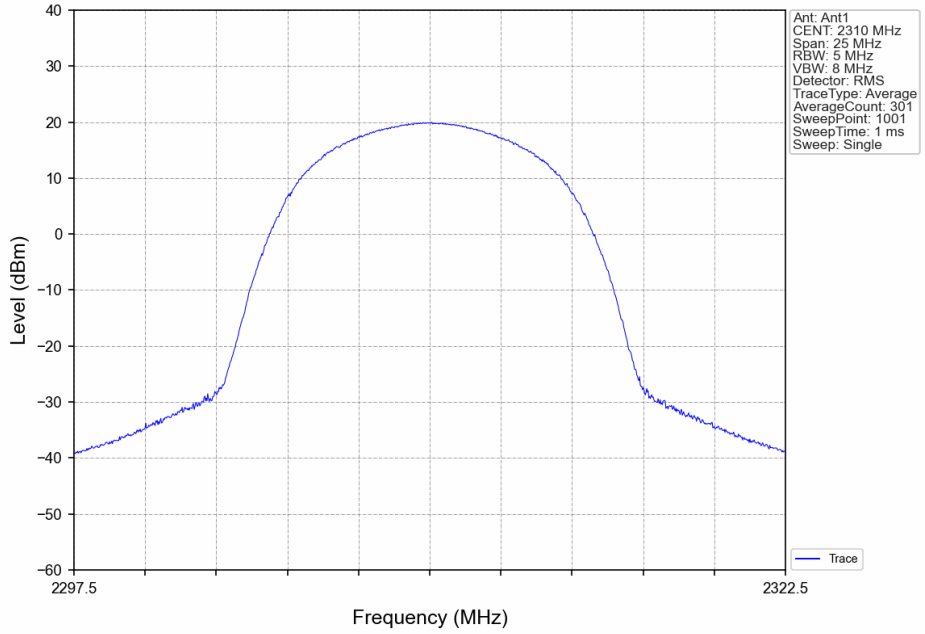
Band30_10MHz_16QAM_MCH_2310MHz_RB_1_49_NTNV



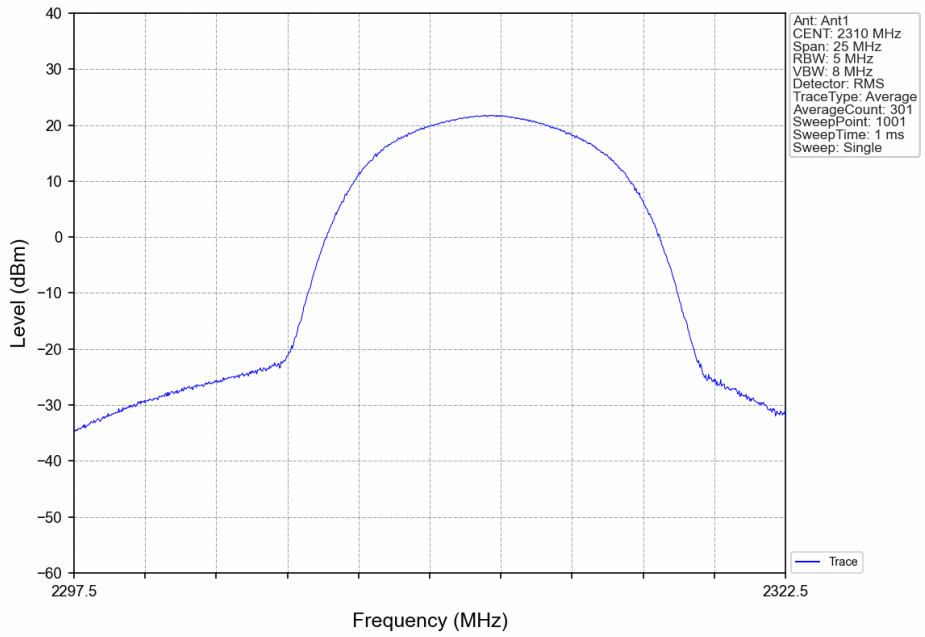
Band30_10MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



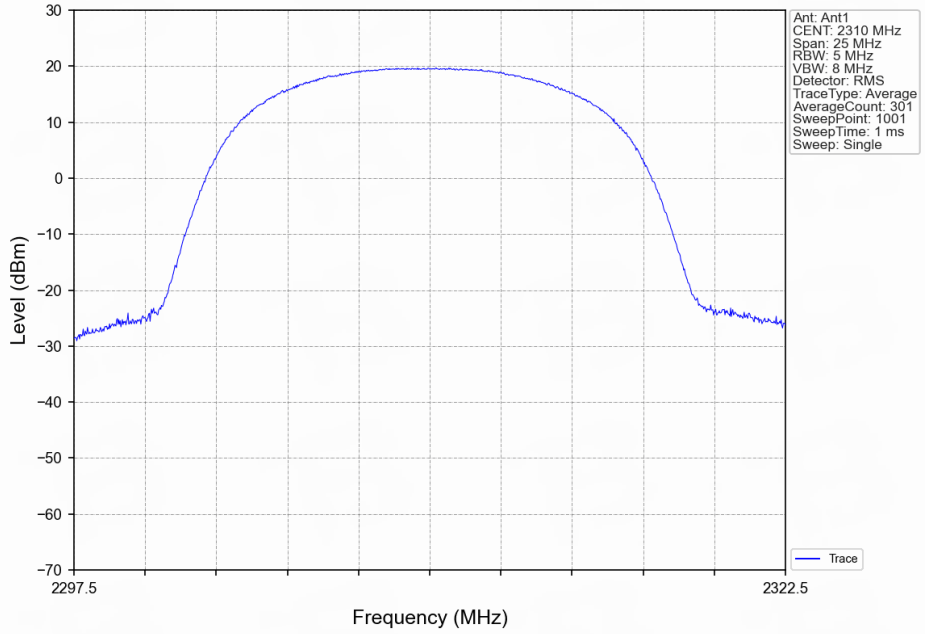
Band30_10MHz_16QAM_MCH_2310MHz_RB_25_13_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_25_25_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



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	3.27	-15.836	-0.0069	-2.5 to 2.5	Pass
					3.85	-11.201	-0.0049	-2.5 to 2.5	Pass
					4.43	-11.458	-0.0050	-2.5 to 2.5	Pass
				-30	3.85	-12.918	-0.0056	-2.5 to 2.5	Pass
				-20	3.85	-17.252	-0.0075	-2.5 to 2.5	Pass
				-10	3.85	-7.238	-0.0031	-2.5 to 2.5	Pass
				0	3.85	-13.618	-0.0059	-2.5 to 2.5	Pass
				10	3.85	-18.940	-0.0082	-2.5 to 2.5	Pass
				30	3.85	-12.660	-0.0055	-2.5 to 2.5	Pass
				40	3.85	-6.237	-0.0027	-2.5 to 2.5	Pass
				50	3.85	-11.959	-0.0052	-2.5 to 2.5	Pass
	2310	25	0	20	3.27	-13.247	-0.0057	-2.5 to 2.5	Pass
					3.85	-14.548	-0.0063	-2.5 to 2.5	Pass
					4.43	-10.772	-0.0047	-2.5 to 2.5	Pass
				-30	3.85	-11.859	-0.0051	-2.5 to 2.5	Pass
				-20	3.85	-15.020	-0.0065	-2.5 to 2.5	Pass
				-10	3.85	-12.875	-0.0056	-2.5 to 2.5	Pass
				0	3.85	-10.643	-0.0046	-2.5 to 2.5	Pass
				10	3.85	-6.824	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-13.247	-0.0057	-2.5 to 2.5	Pass
				40	3.85	-4.034	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-11.644	-0.0050	-2.5 to 2.5	Pass
	2312.5	25	0	20	3.27	-11.501	-0.0050	-2.5 to 2.5	Pass
					3.85	-1.287	-0.0006	-2.5 to 2.5	Pass
					4.43	-8.969	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-2.561	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	3.405	0.0015	-2.5 to 2.5	Pass
				-10	3.85	-10.486	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-3.147	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-5.479	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-4.306	-0.0019	-2.5 to 2.5	Pass
				40	3.85	-2.389	-0.0010	-2.5 to 2.5	Pass
				50	3.85	-5.007	-0.0022	-2.5 to 2.5	Pass
16QAM	2307.5	25	0	20	3.27	-18.425	-0.0080	-2.5 to 2.5	Pass
					3.85	-17.467	-0.0076	-2.5 to 2.5	Pass
					4.43	-14.119	-0.0061	-2.5 to 2.5	Pass
				-30	3.85	23.632	0.0102	-2.5 to 2.5	Pass
				-20	3.85	-6.065	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-15.249	-0.0066	-2.5 to 2.5	Pass
				0	3.85	-12.789	-0.0055	-2.5 to 2.5	Pass
				10	3.85	-13.733	-0.0060	-2.5 to 2.5	Pass
				30	3.85	-14.720	-0.0064	-2.5 to 2.5	Pass
				40	3.85	-12.288	-0.0053	-2.5 to 2.5	Pass
				50	3.85	-6.266	-0.0027	-2.5 to 2.5	Pass

	2310	25	0	20	3.27	-11.029	-0.0048	-2.5 to 2.5	Pass
					3.85	-13.776	-0.0060	-2.5 to 2.5	Pass
					4.43	-18.525	-0.0080	-2.5 to 2.5	Pass
				-30	3.85	-9.928	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	-4.191	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	-14.462	-0.0063	-2.5 to 2.5	Pass
				0	3.85	-17.753	-0.0077	-2.5 to 2.5	Pass
				10	3.85	-7.796	-0.0034	-2.5 to 2.5	Pass
				30	3.85	-19.684	-0.0085	-2.5 to 2.5	Pass
				40	3.85	-10.815	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-8.240	-0.0036	-2.5 to 2.5	Pass
	2312.5	25	0	20	3.27	-0.157	-0.0001	-2.5 to 2.5	Pass
					3.85	-3.648	-0.0016	-2.5 to 2.5	Pass
					4.43	-1.359	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-1.831	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-1.903	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	3.104	0.0013	-2.5 to 2.5	Pass
				0	3.85	2.246	0.0010	-2.5 to 2.5	Pass
				10	3.85	0.715	0.0003	-2.5 to 2.5	Pass
				30	3.85	-1.731	-0.0007	-2.5 to 2.5	Pass
				40	3.85	10.514	0.0045	-2.5 to 2.5	Pass
				50	3.85	0.687	0.0003	-2.5 to 2.5	Pass

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	3.27	-12.760	-0.0055	-2.5 to 2.5	Pass
					3.85	-3.920	-0.0017	-2.5 to 2.5	Pass
					4.43	-12.875	-0.0056	-2.5 to 2.5	Pass
				-30	3.85	-6.967	-0.0030	-2.5 to 2.5	Pass
				-20	3.85	-8.912	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	-10.486	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-7.739	-0.0034	-2.5 to 2.5	Pass
				10	3.85	5.121	0.0022	-2.5 to 2.5	Pass
				30	3.85	-4.177	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-5.722	-0.0025	-2.5 to 2.5	Pass
				50	3.85	-5.021	-0.0022	-2.5 to 2.5	Pass
16QAM	2310	50	0	20	3.27	-0.544	-0.0002	-2.5 to 2.5	Pass
					3.85	2.432	0.0011	-2.5 to 2.5	Pass
					4.43	-6.008	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	5.808	0.0025	-2.5 to 2.5	Pass
				-20	3.85	2.317	0.0010	-2.5 to 2.5	Pass
				-10	3.85	-1.845	-0.0008	-2.5 to 2.5	Pass
				0	3.85	1.659	0.0007	-2.5 to 2.5	Pass
				10	3.85	-0.372	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-3.433	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-5.107	-0.0022	-2.5 to 2.5	Pass
				50	3.85	-1.402	-0.0006	-2.5 to 2.5	Pass

3. Modulation Characteristics

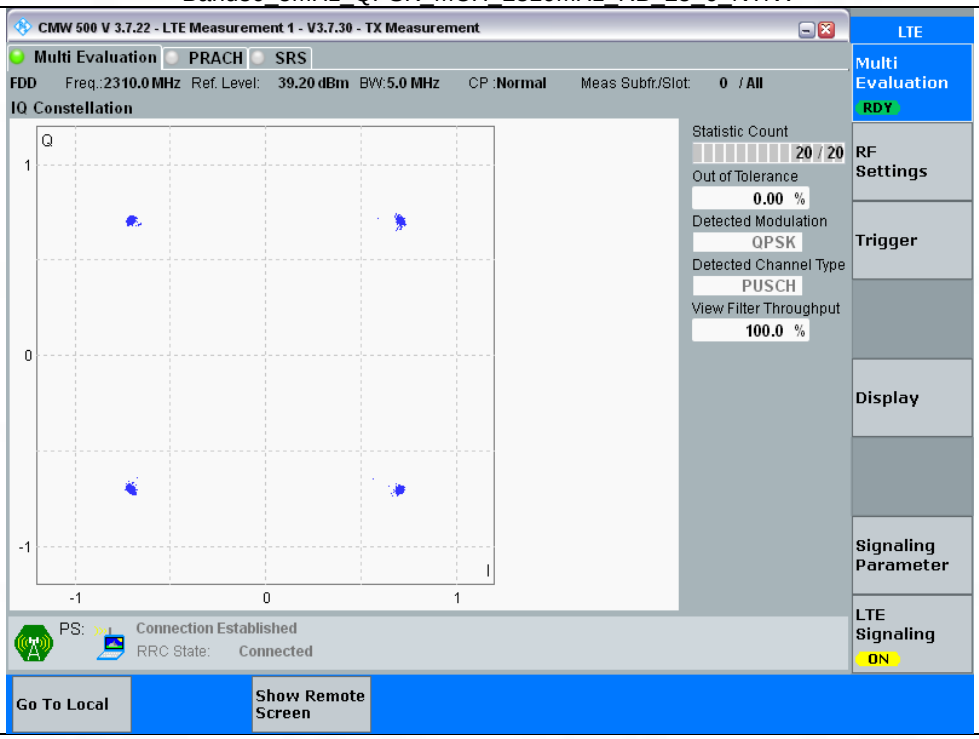
3.1 B30_5MHz

3.1.1 Test Result

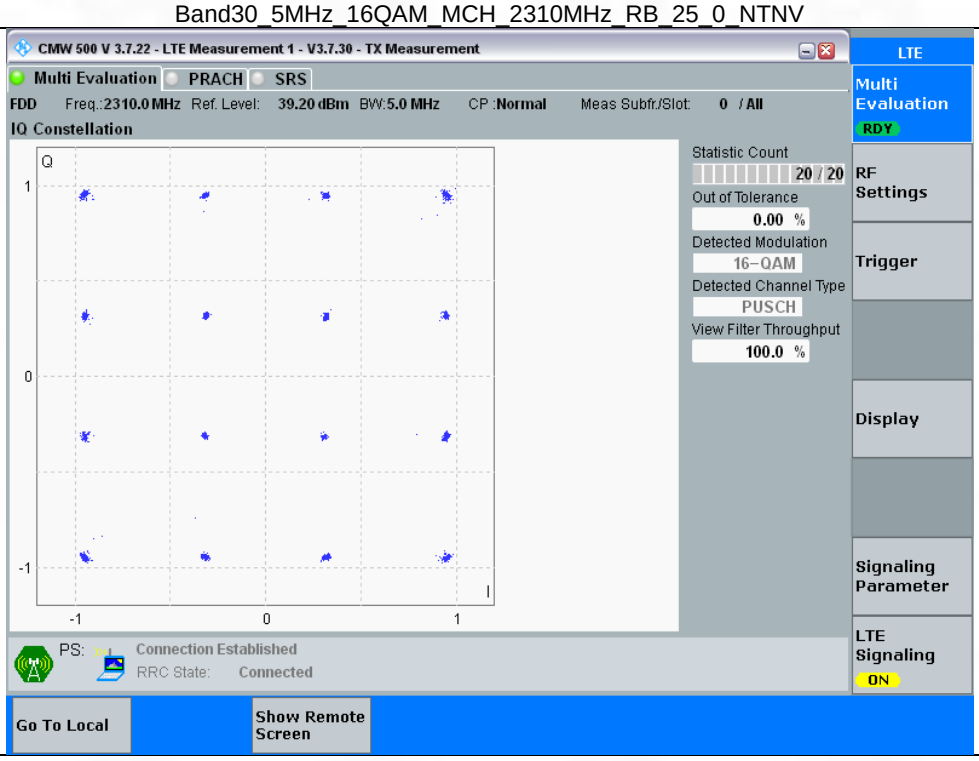
Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	25	0	Refer To Test Graph		Pass
16QAM	2310	25	0	Refer To Test Graph		Pass

3.1.2 Test Graph

Band30_5MHz_QPSK_MCH_2310MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



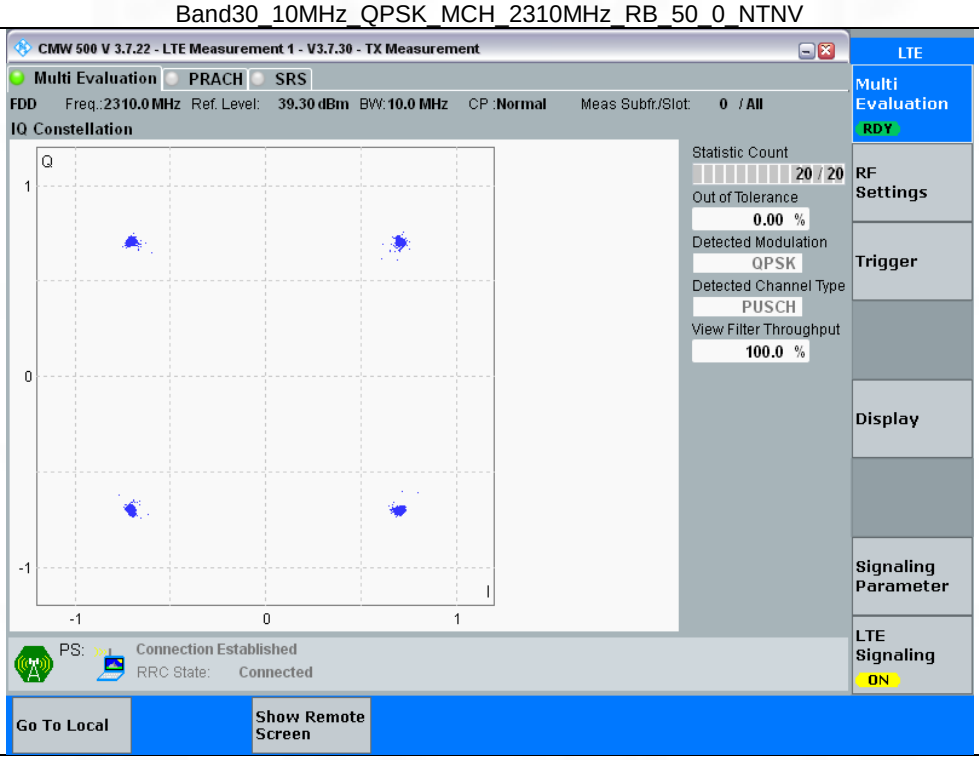
3.2 B30_10MHz

3.2.1 Test Result

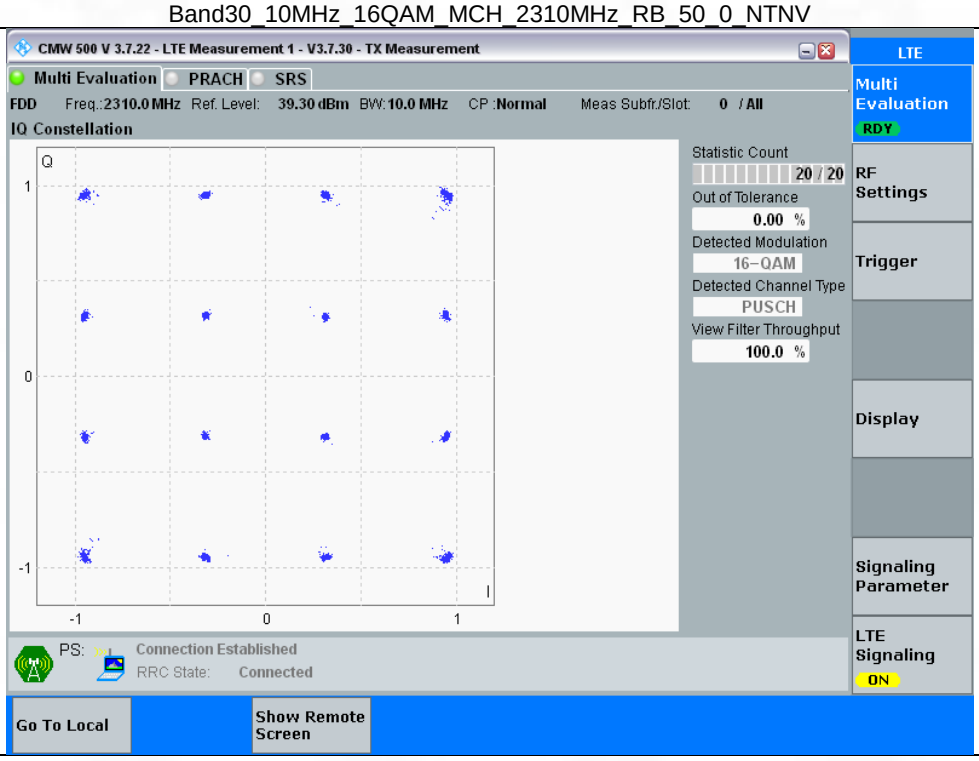
Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	Refer To Test Graph		Pass
16QAM	2310	50	0	Refer To Test Graph		Pass

3.2.2 Test Graph

Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



4. 99% & 26dB Bandwidth

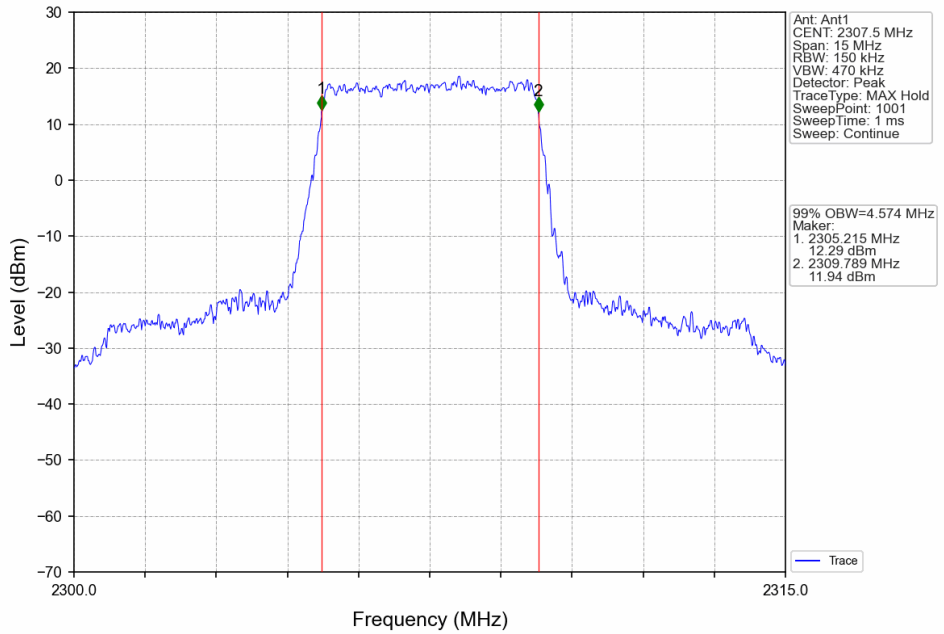
4.1 Band30_OBW

4.1.1 Test Result

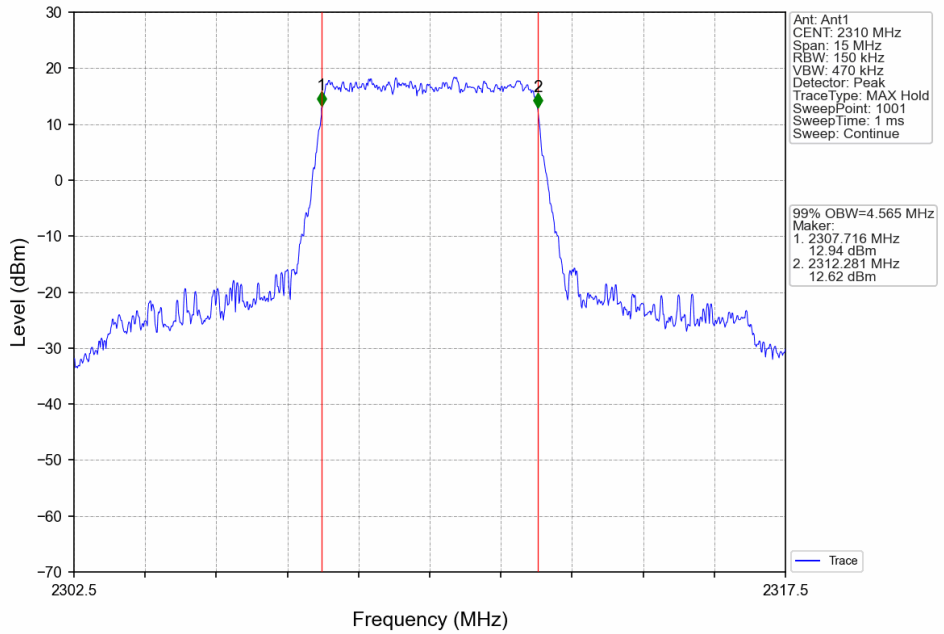
Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	4.574	/	Pass
		2310	25	0	4.565	/	Pass
		2312.5	25	0	4.579	/	Pass
	16QAM	2307.5	25	0	4.585	/	Pass
		2310	25	0	4.596	/	Pass
		2312.5	25	0	4.573	/	Pass
10	QPSK	2310	50	0	9.071	/	Pass
	16QAM	2310	50	0	9.097	/	Pass

4.1.2 Test Graph

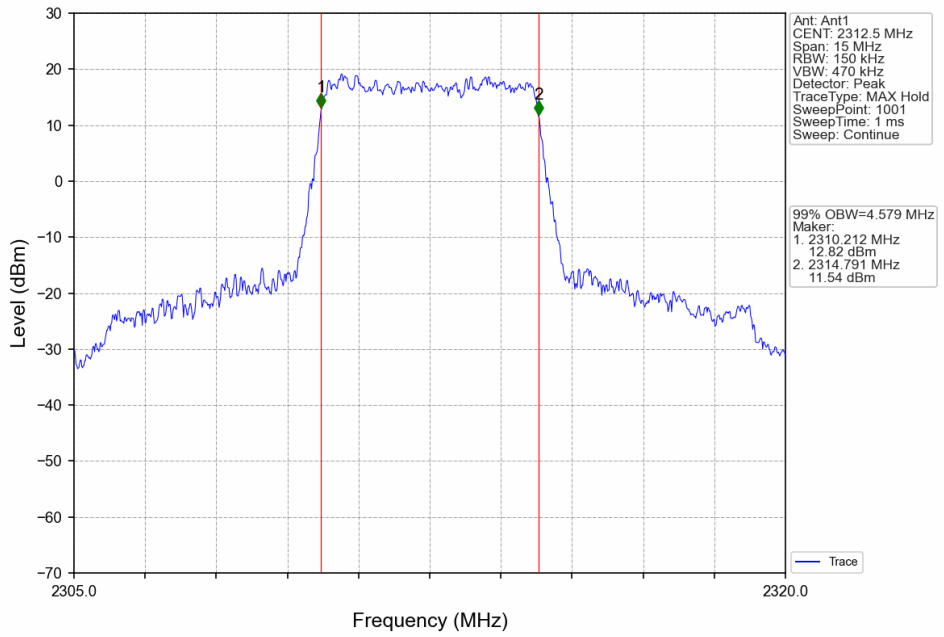
Band30_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV



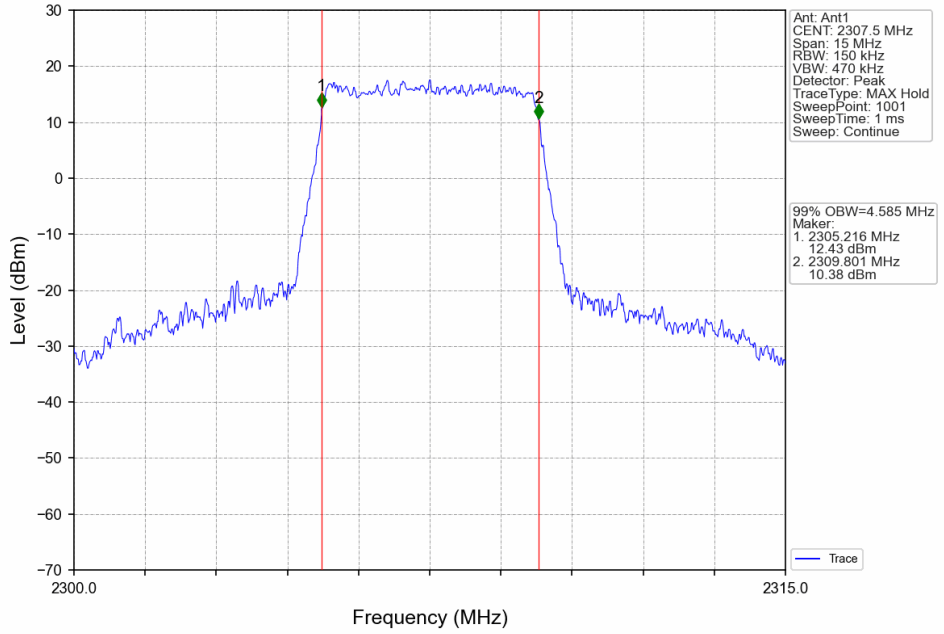
Band30_5MHz_QPSK_MCH_2310MHz_RB_25_0_NTNV



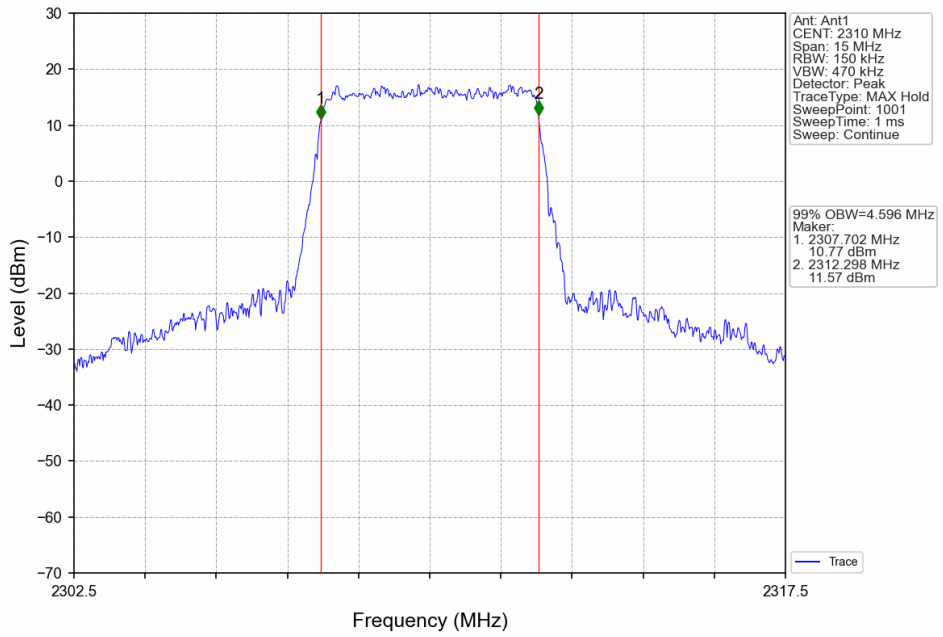
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



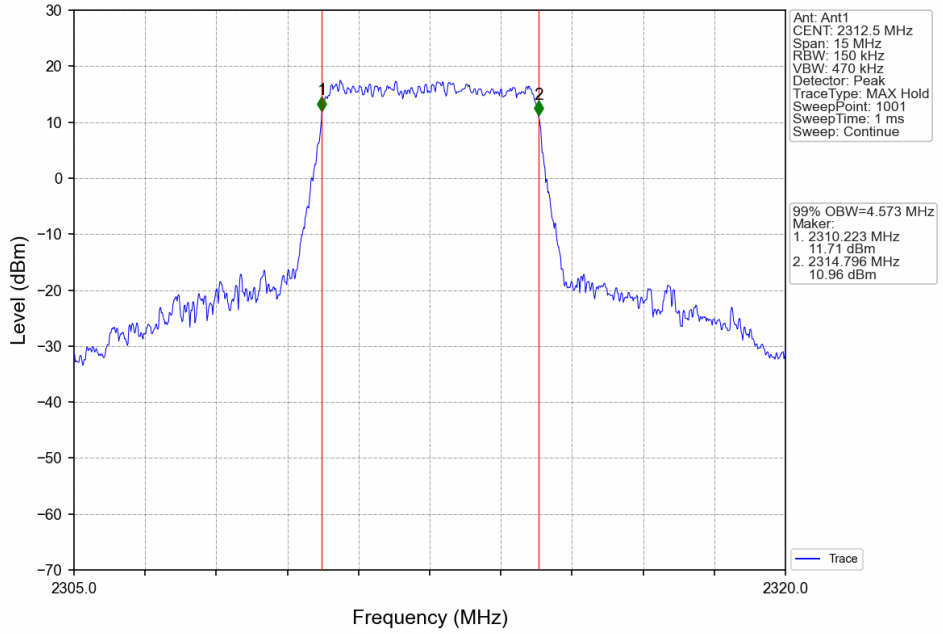
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



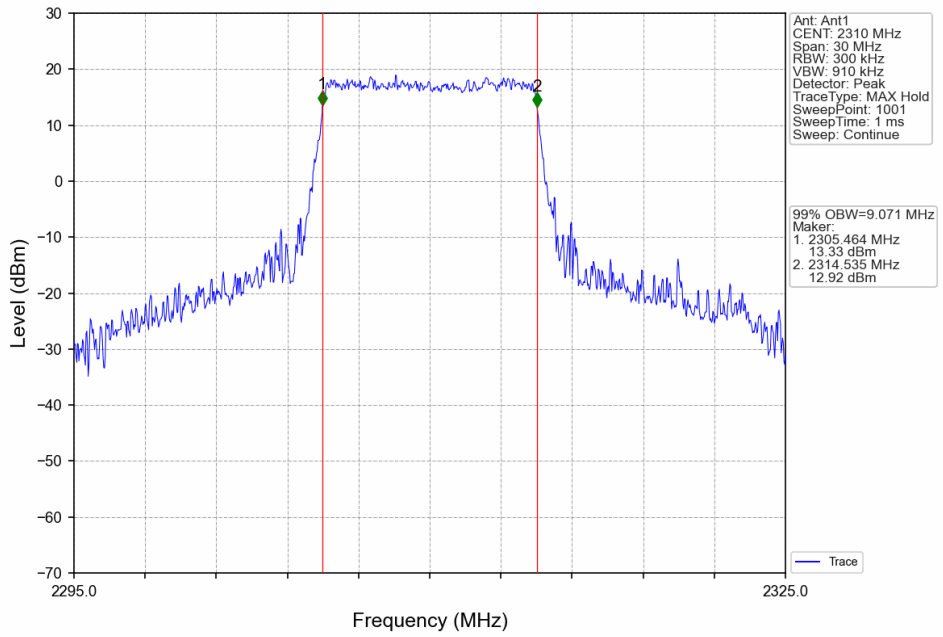
Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



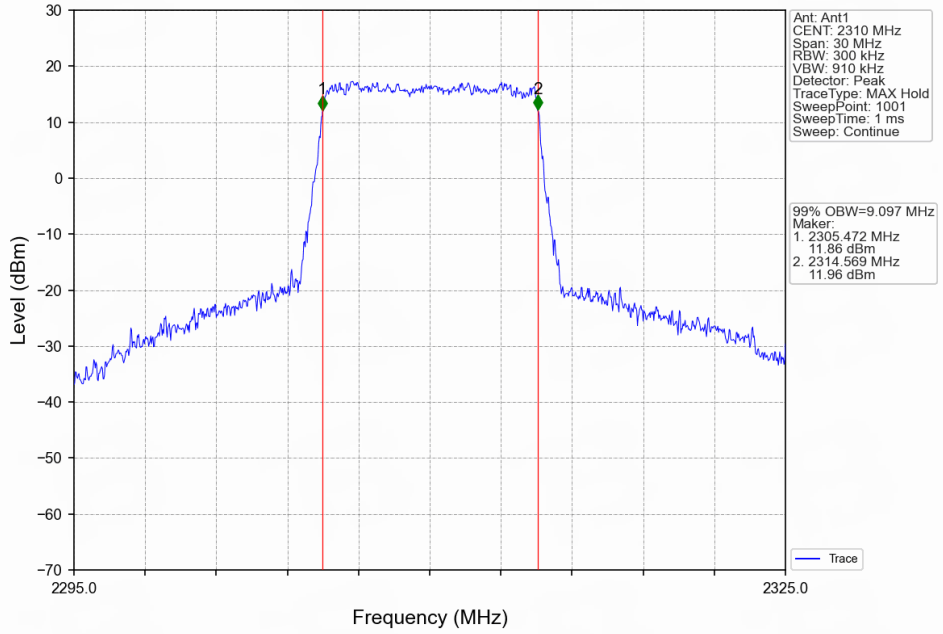
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



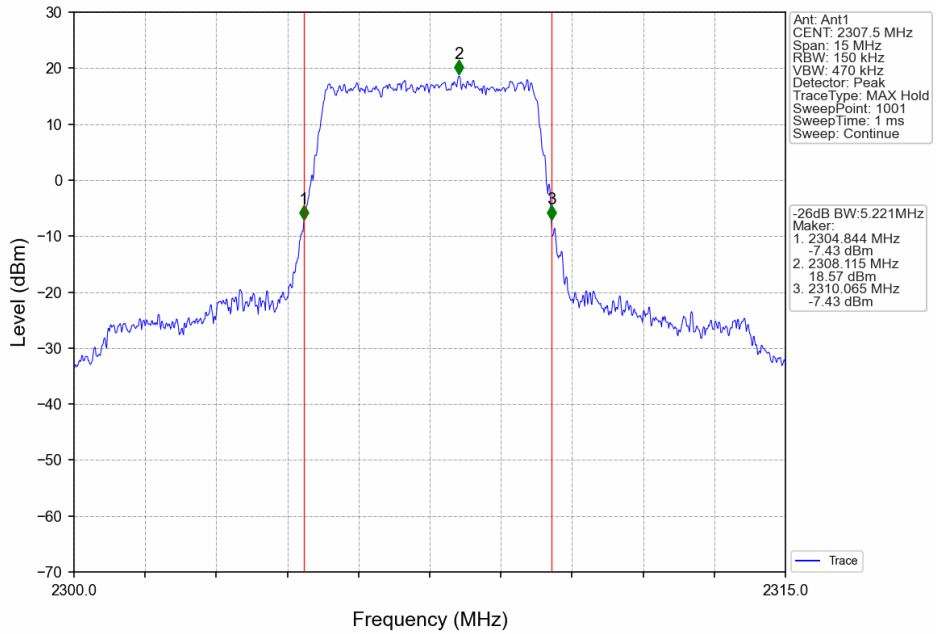
4.2 Band30_XDB

4.2.1 Test Result

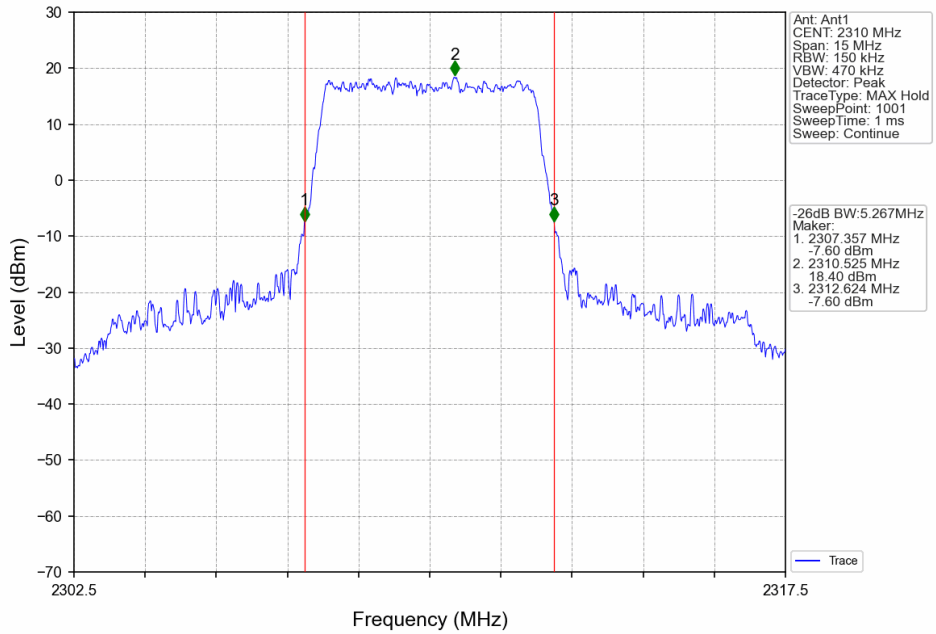
Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	5.221	/	Pass
		2310	25	0	5.267	/	Pass
		2312.5	25	0	5.219	/	Pass
	16QAM	2307.5	25	0	5.331	/	Pass
		2310	25	0	5.304	/	Pass
		2312.5	25	0	5.296	/	Pass
10	QPSK	2310	50	0	10.769	/	Pass
	16QAM	2310	50	0	10.269	/	Pass

4.2.2 Test Graph

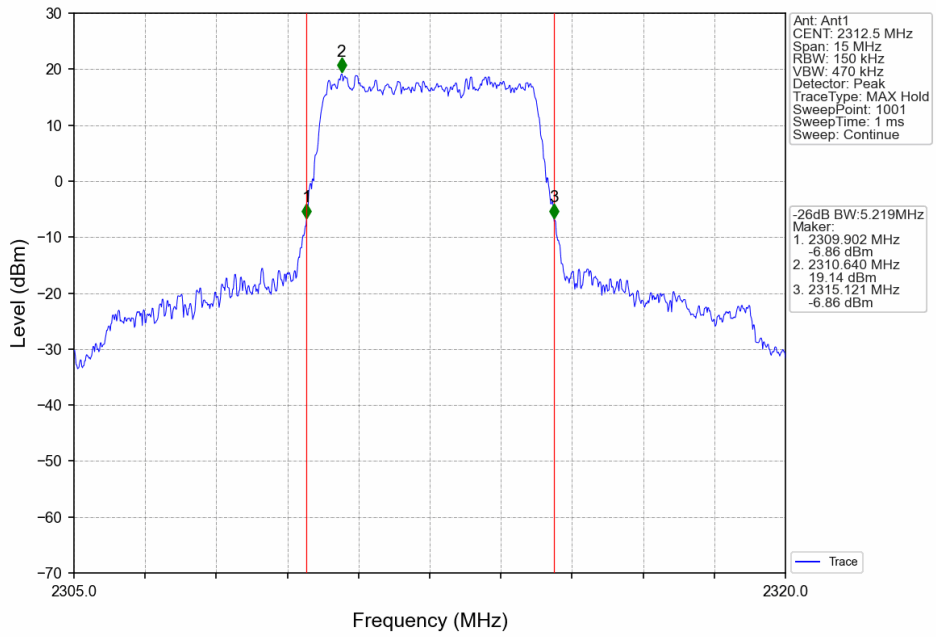
Band30_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV



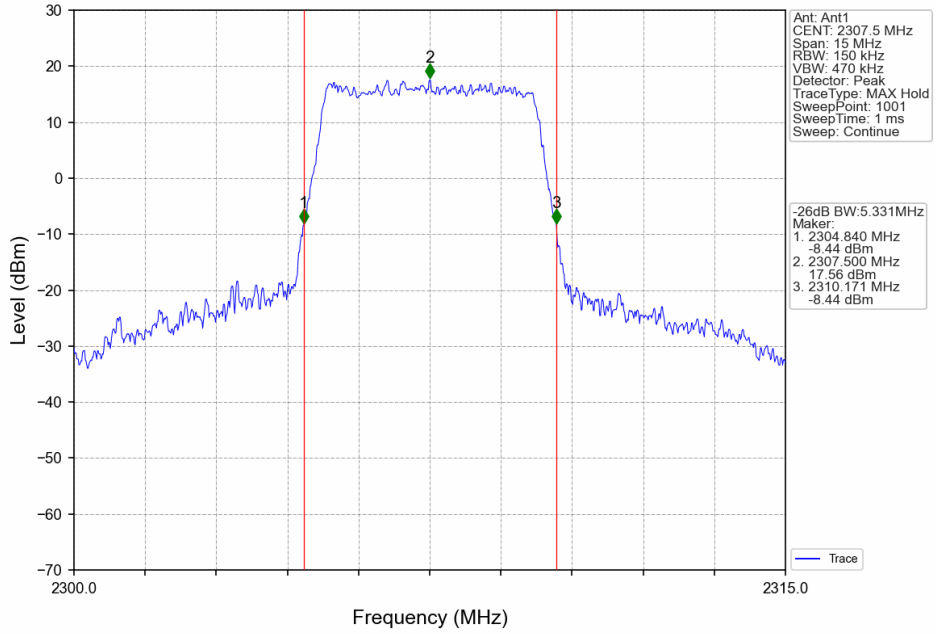
Band30_5MHz_QPSK_MCH_2310MHz_RB_25_0_NTNV



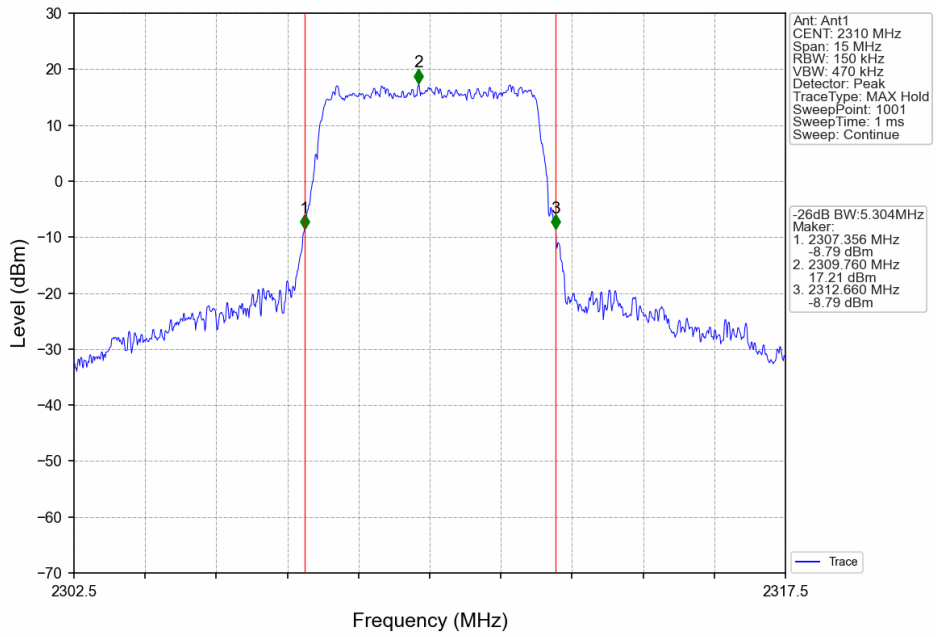
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



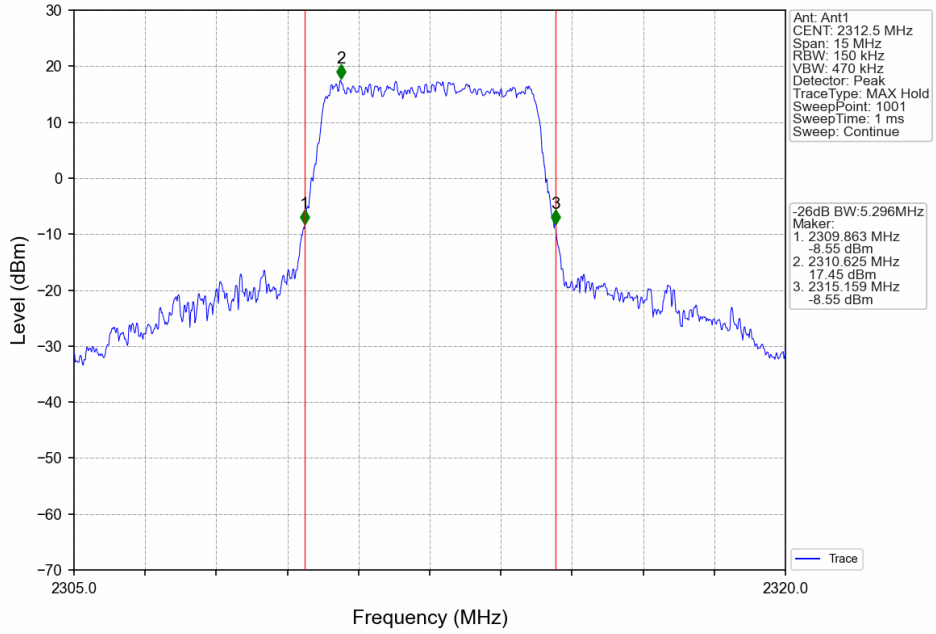
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



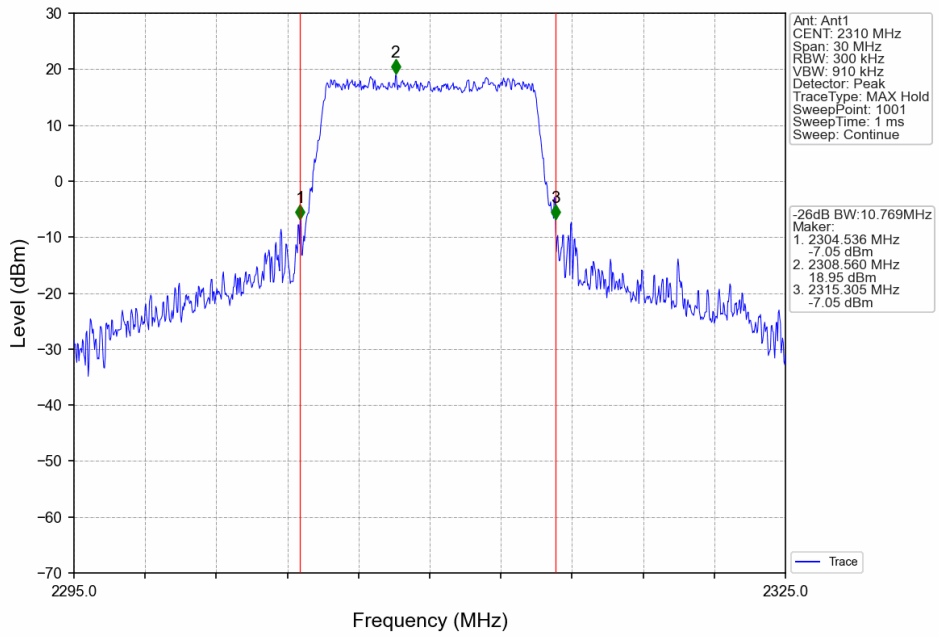
Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



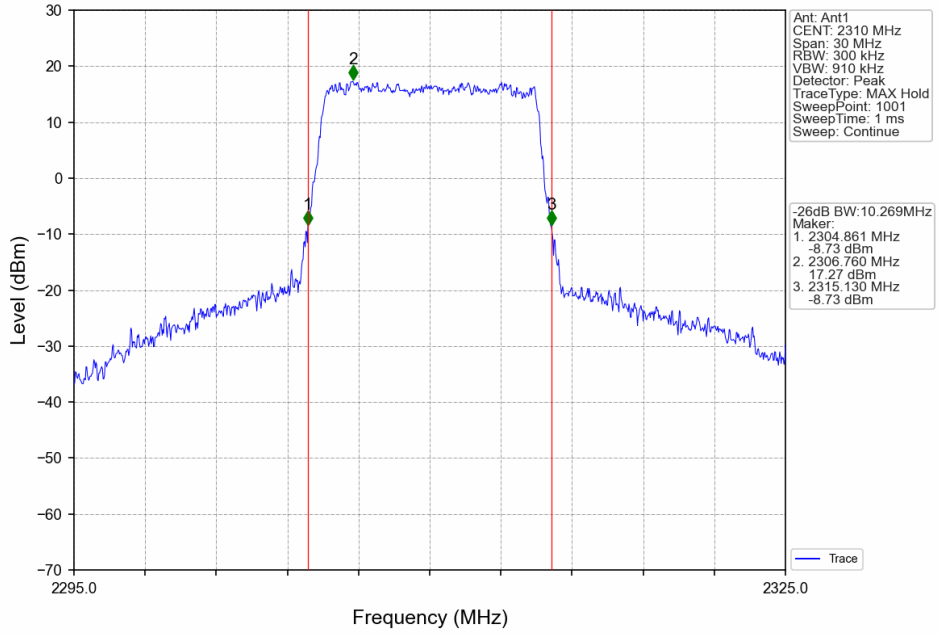
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



5. Peak-Average Ratio

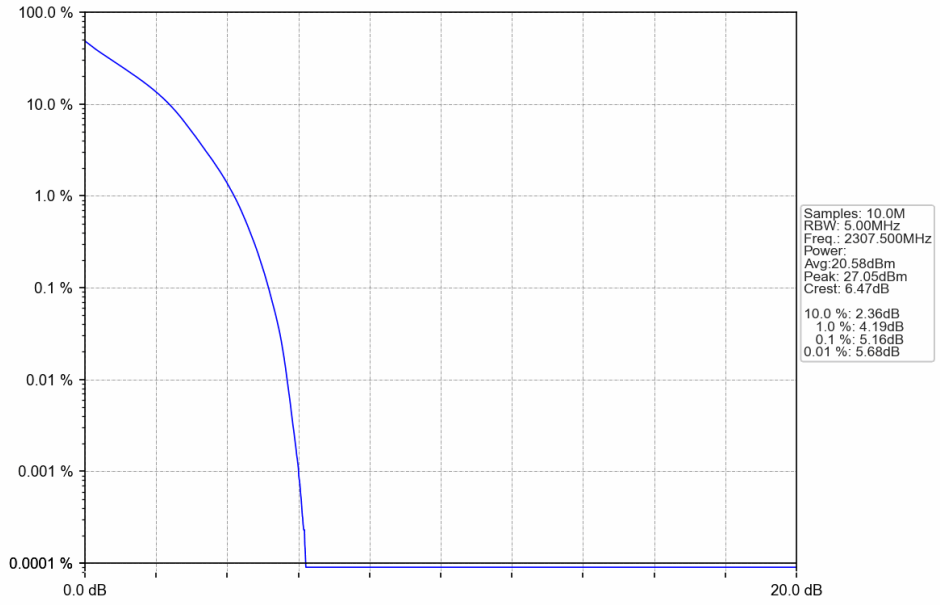
5.1 B30_5MHz

5.1.1 Test Result

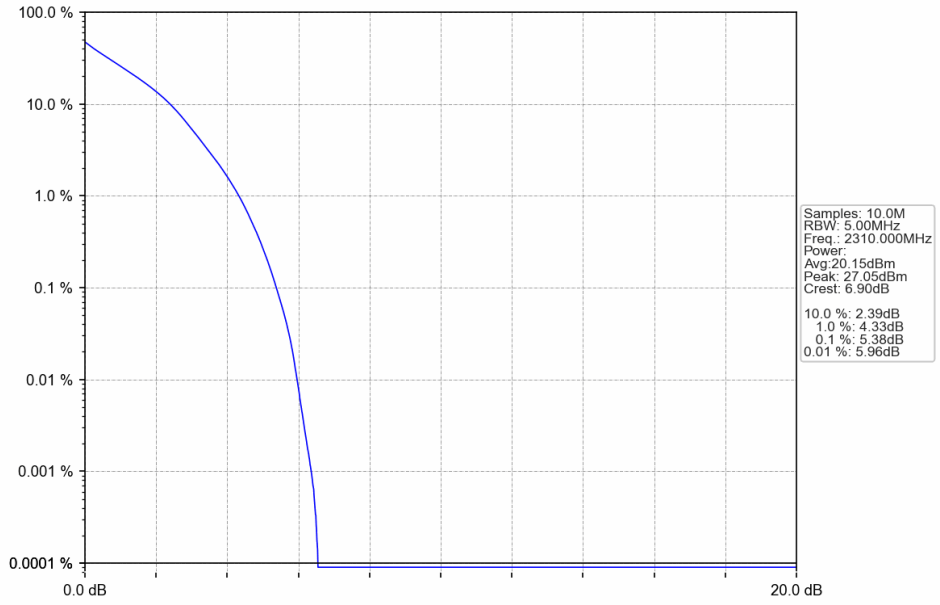
Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	25	0	5.16	<=13	Pass
	2310	25	0	5.38	<=13	Pass
	2312.5	25	0	5.35	<=13	Pass
16QAM	2307.5	25	0	5.89	<=13	Pass
	2310	25	0	6.11	<=13	Pass
	2312.5	25	0	6.07	<=13	Pass

5.1.2 Test Graph

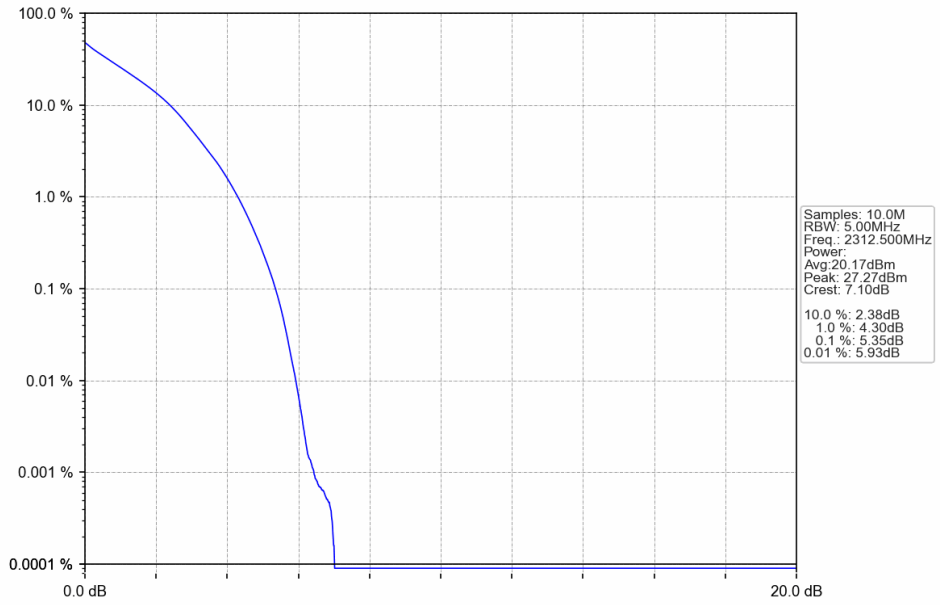
Band30_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV



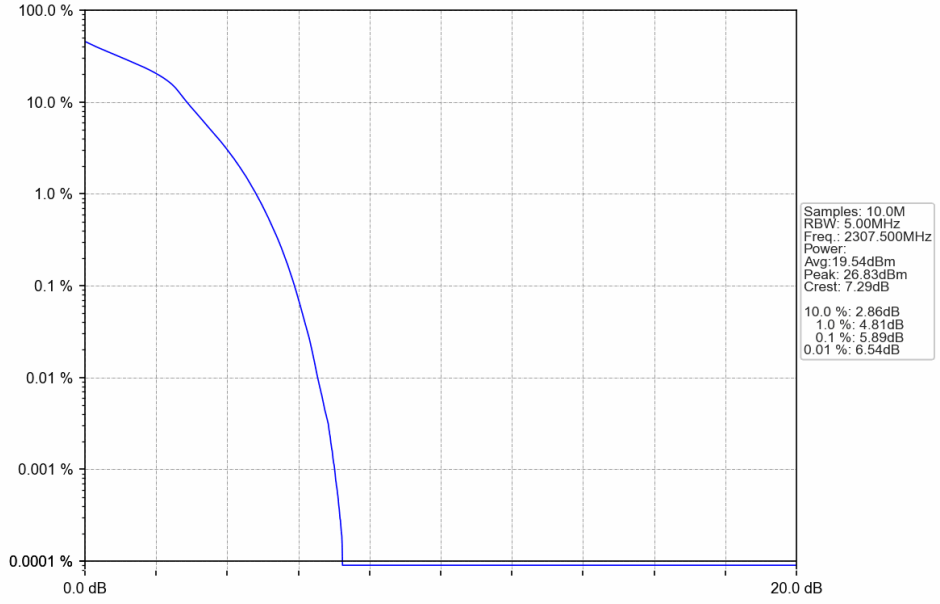
Band30_5MHz_QPSK_MCH_2310MHz_RB_25_0_NTNV



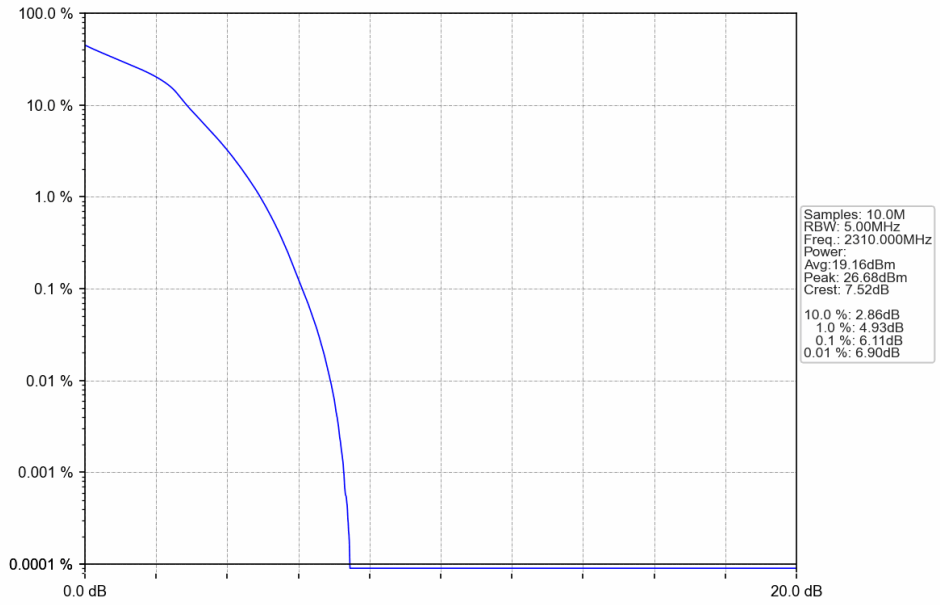
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



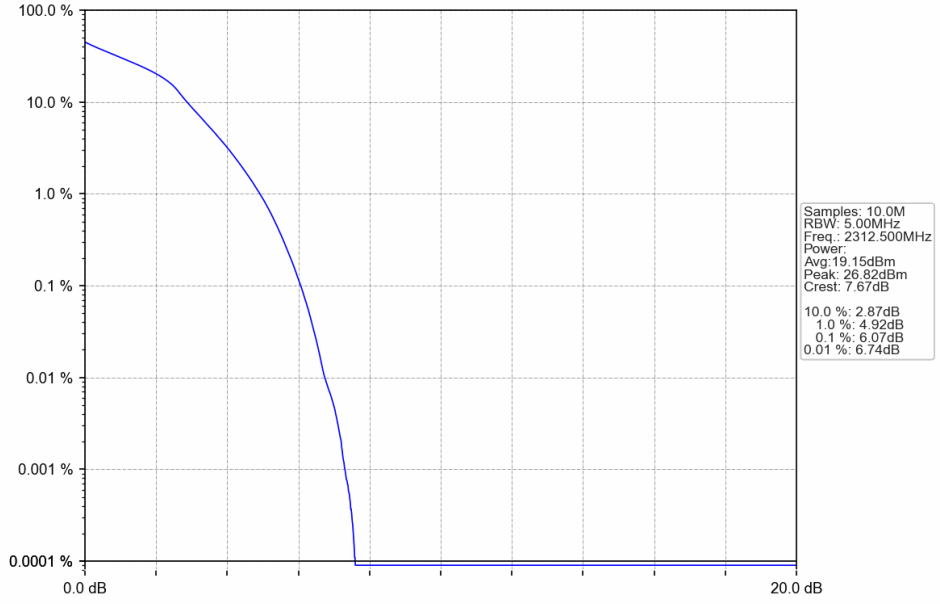
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



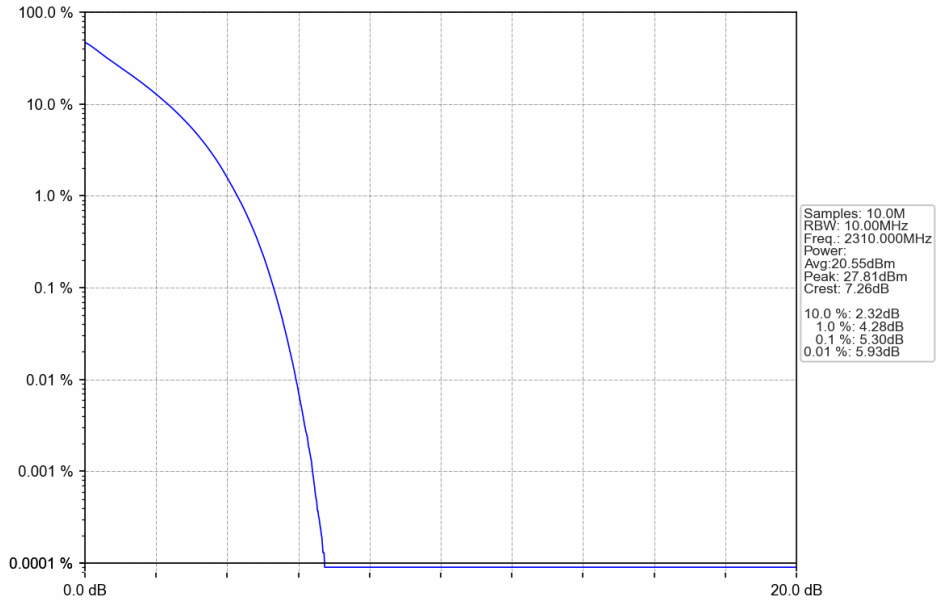
5.2 B30_10MHz

5.2.1 Test Result

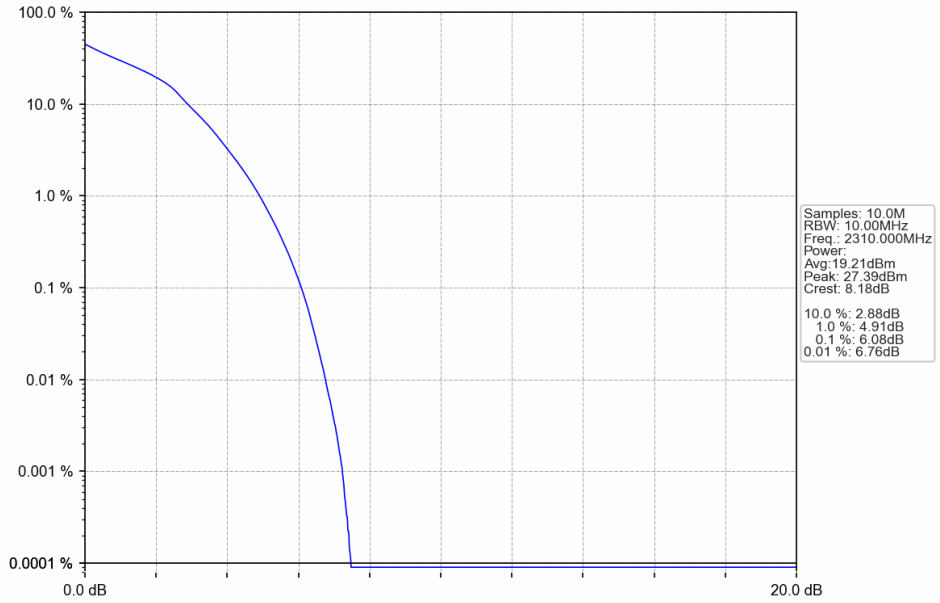
Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	5.30	<=13	Pass
16QAM	2310	50	0	6.08	<=13	Pass

5.2.2 Test Graph

Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



6. Spurious Emission

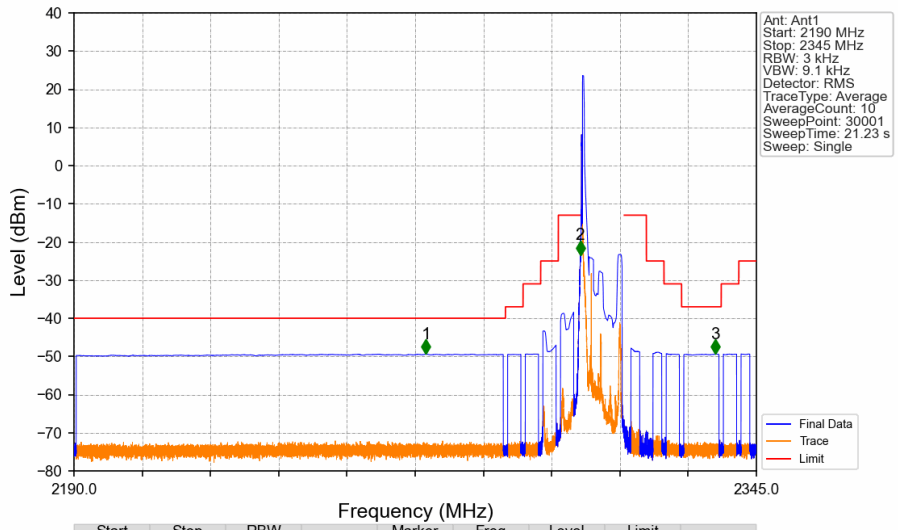
6.1 B30_5MHz

6.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNV						
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		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
	2312.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

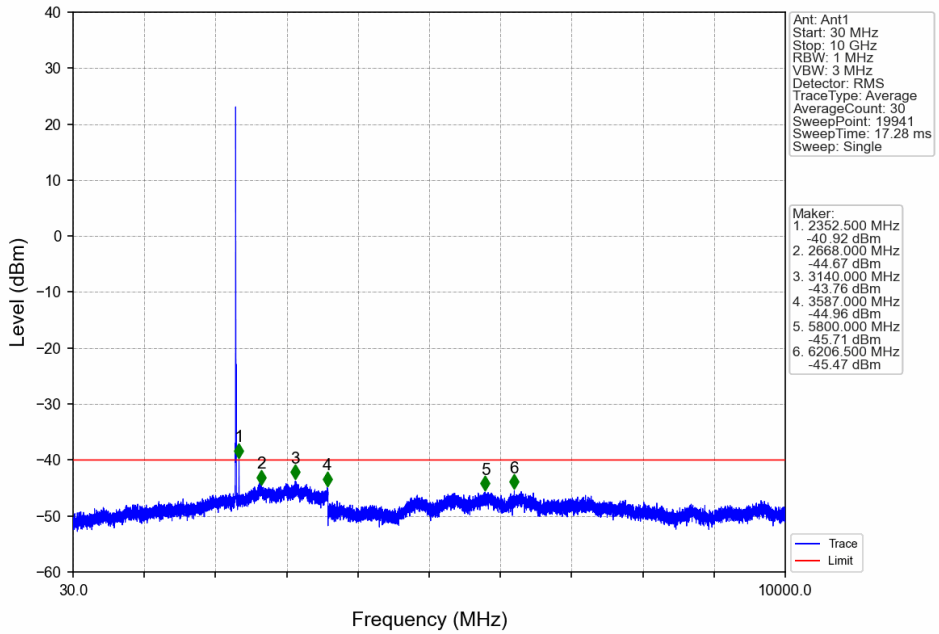
6.1.2 Test Graph

Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_0_NTNV

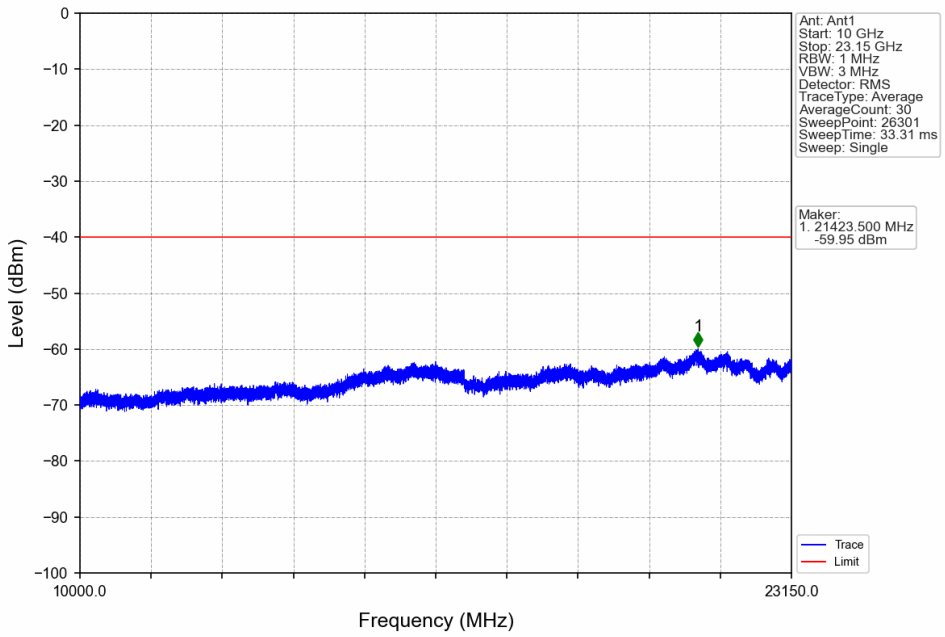


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2269.944	-49.38	-40	Pass
2304	2305	0.003	/	2	2305.000	-23.40	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2345	1	CHP	3	2335.715	-49.38	-37	Pass

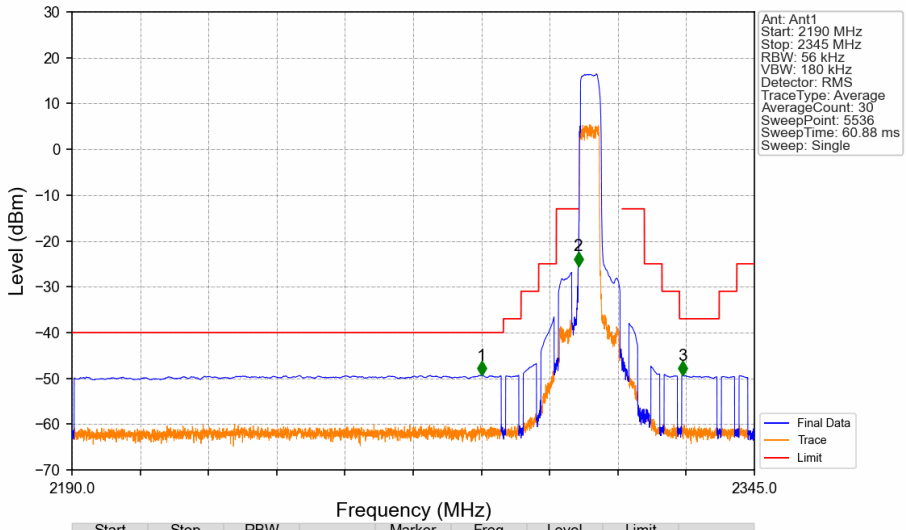
Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_0_NTNV



Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_0_NTNV

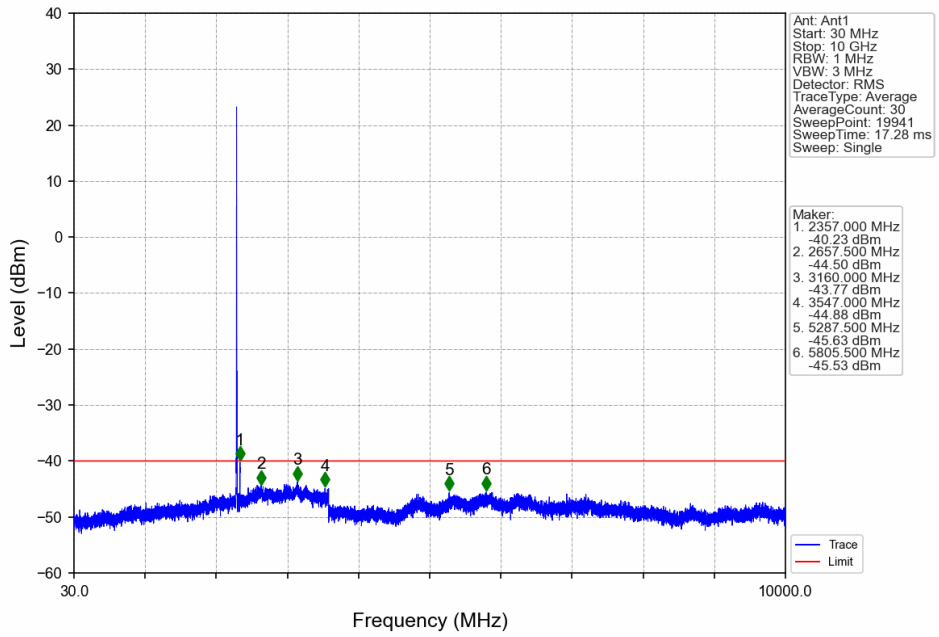


Band30_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV

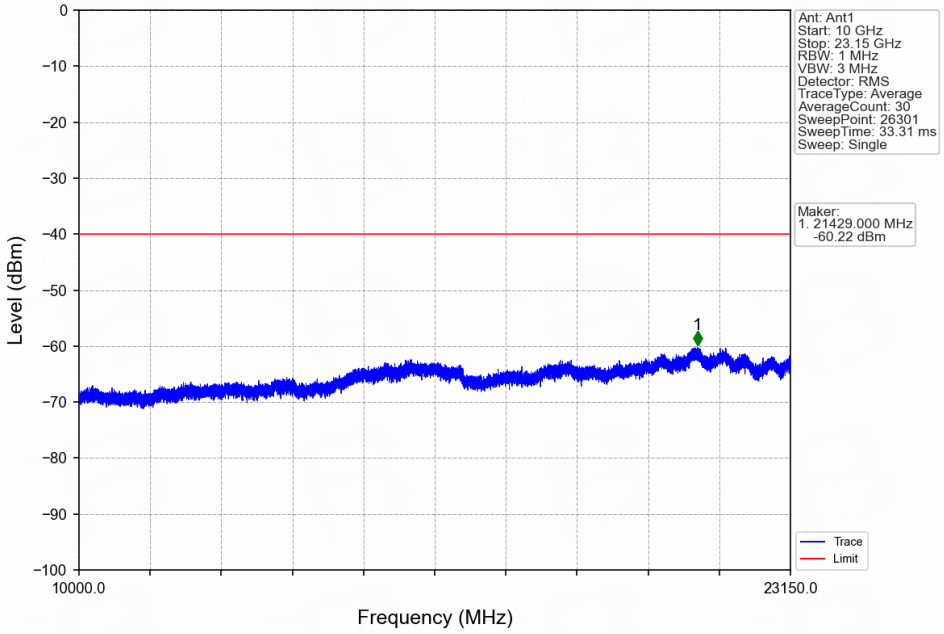


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2283.056	-49.35	-40	Pass
2304	2305	0.056	/	2	2304.983	-25.50	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2345	1	CHP	3	2328.758	-49.32	-37	Pass

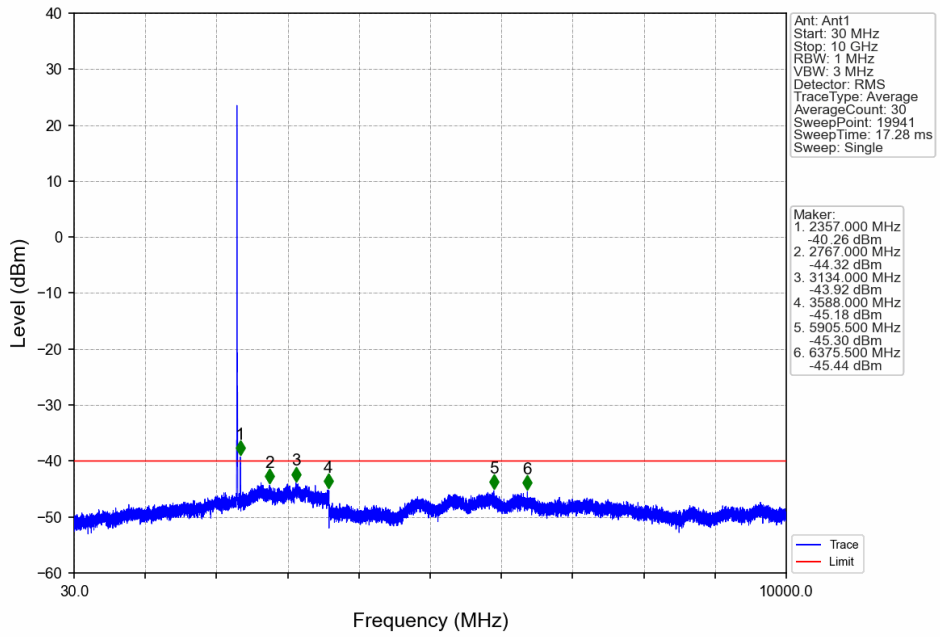
Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



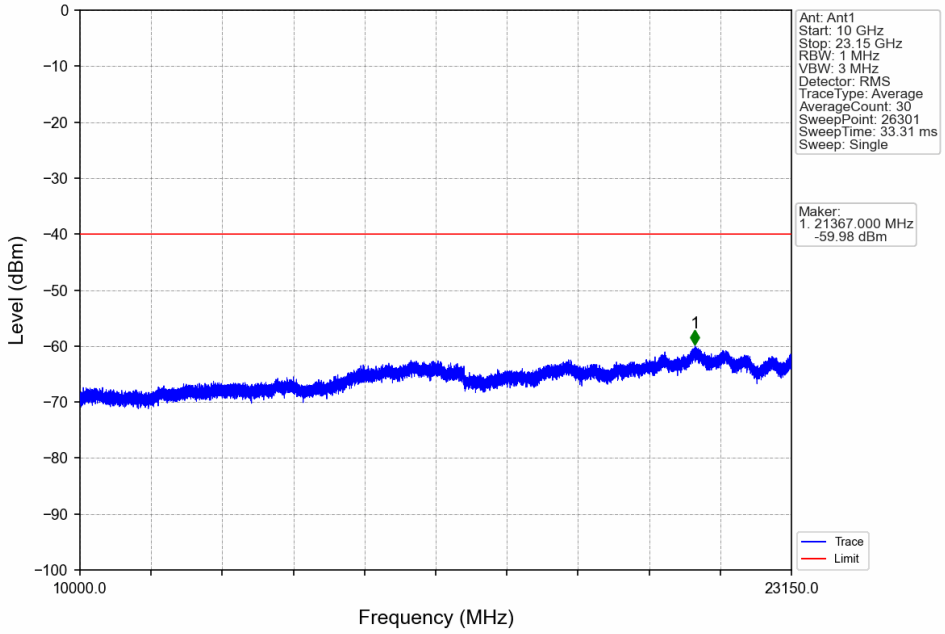
Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



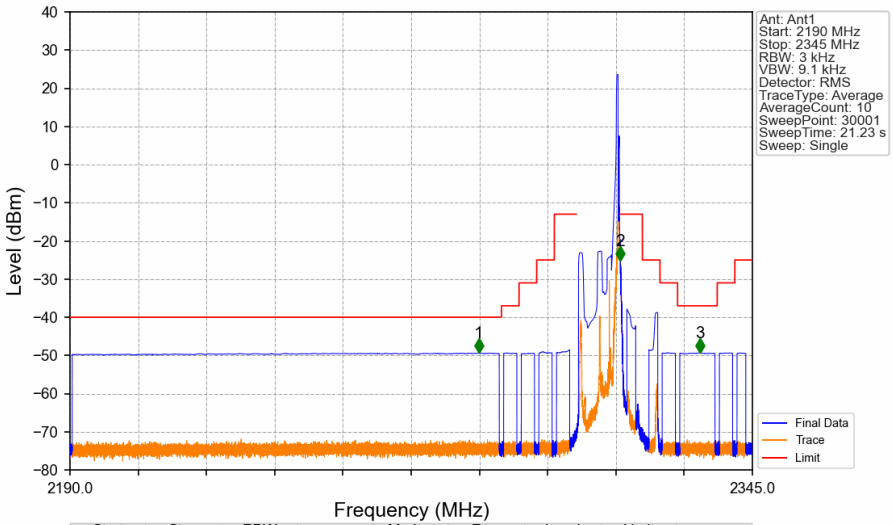
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV

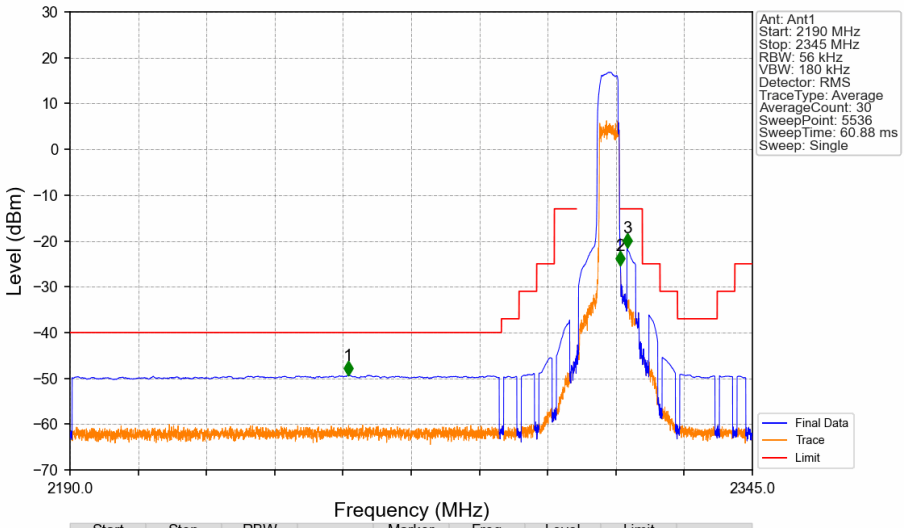


Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_24_NTNV



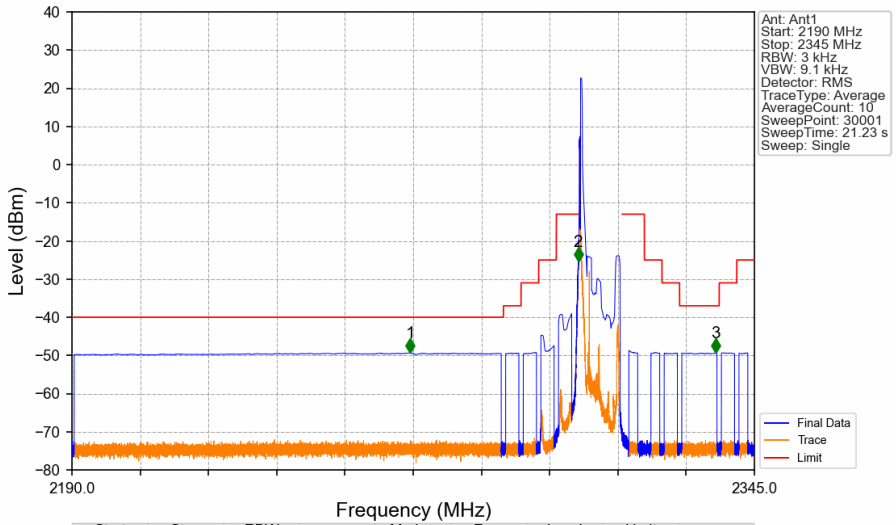
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2282.855	-49.39	-40	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	2	2315.008	-25.17	-13	Pass
2316	2345	1	CHP	3	2333.081	-49.31	-37	Pass

Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



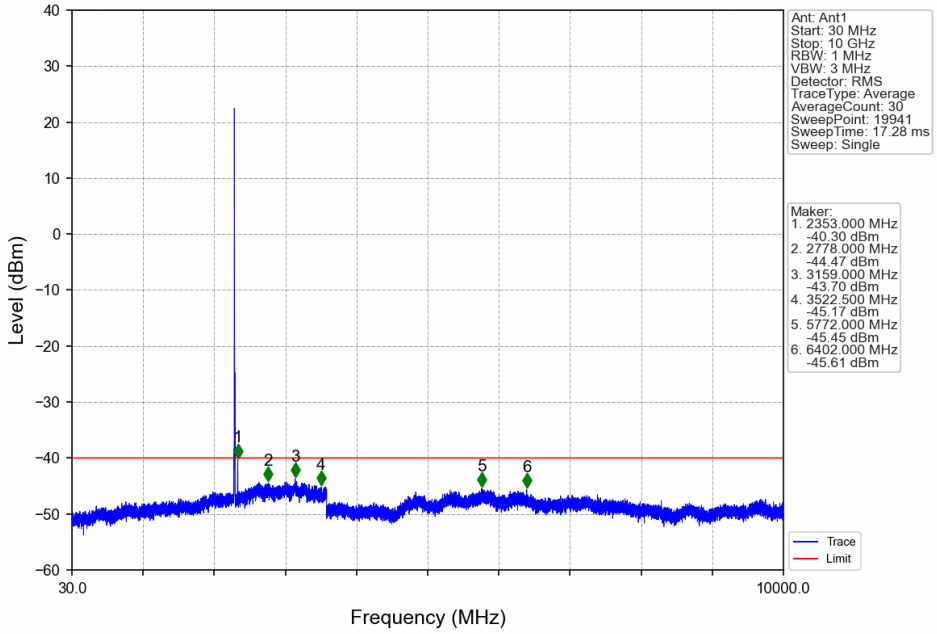
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2253.148	-49.34	-40	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.056	/	2	2315.008	-25.45	-13	Pass
2316	2345	1	CHP	3	2316.520	-21.51	-13	Pass

Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV

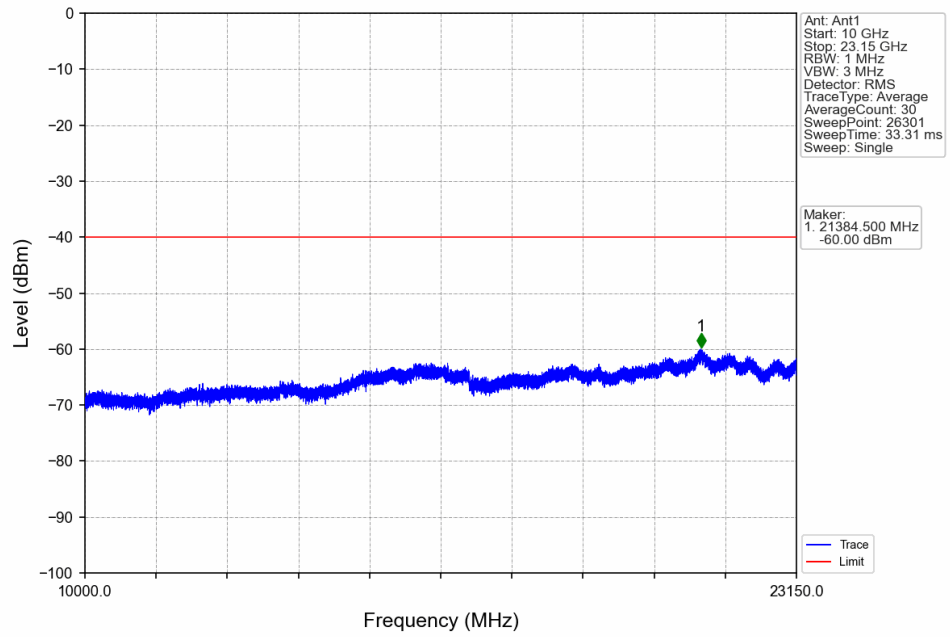


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2266.834	-49.37	-40	Pass
2304	2305	0.003	/	2	2305.000	-25.49	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2345	1	CHP	3	2336.191	-49.35	-37	Pass

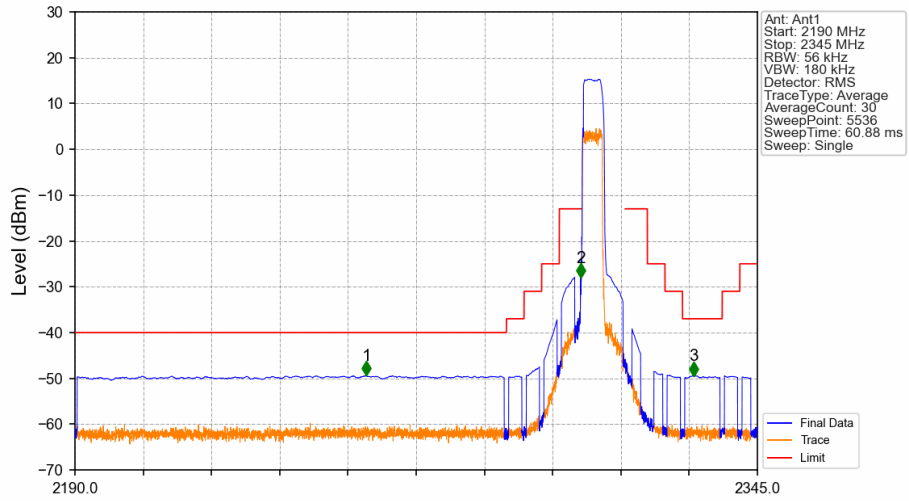
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV



Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV

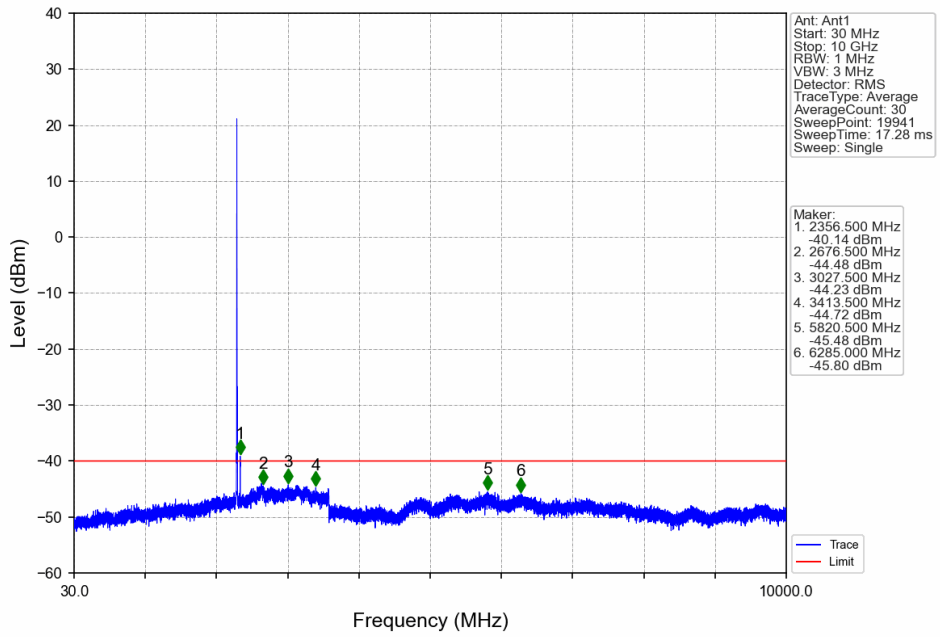


Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV

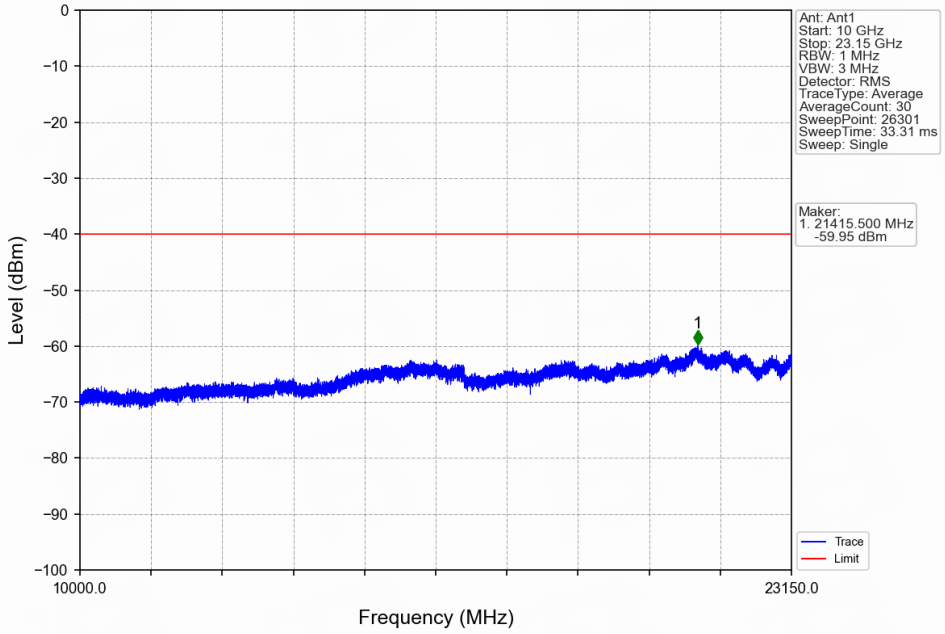


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2256.173	-49.43	-40	Pass
2304	2305	0.056	/	2	2304.843	-27.99	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2345	1	CHP	3	2330.438	-49.45	-37	Pass

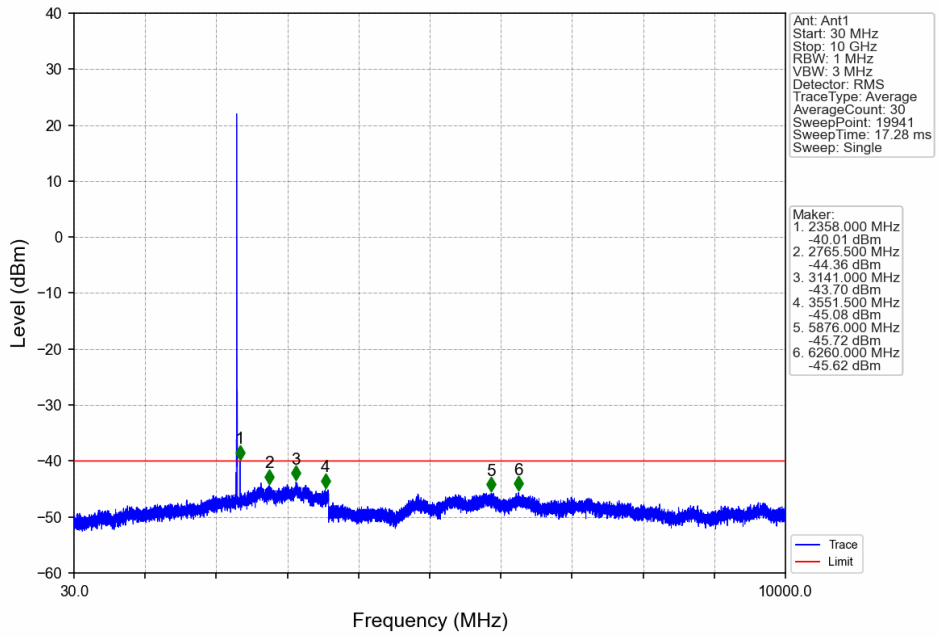
Band30_5MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV



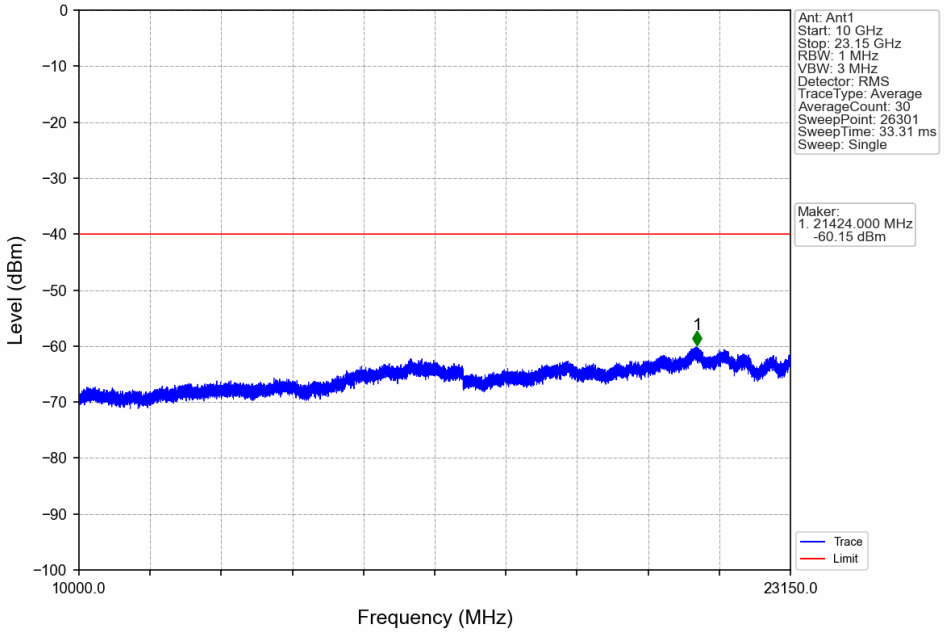
Band30_5MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV



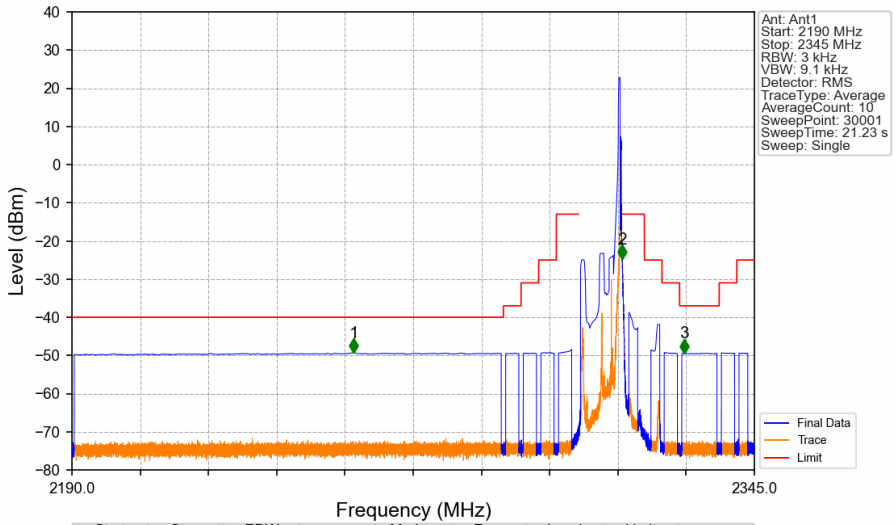
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_1_0_NTNV



Band30_5MHz_16QAM_HCH_2312.5MHz_RB_1_0_NTNV

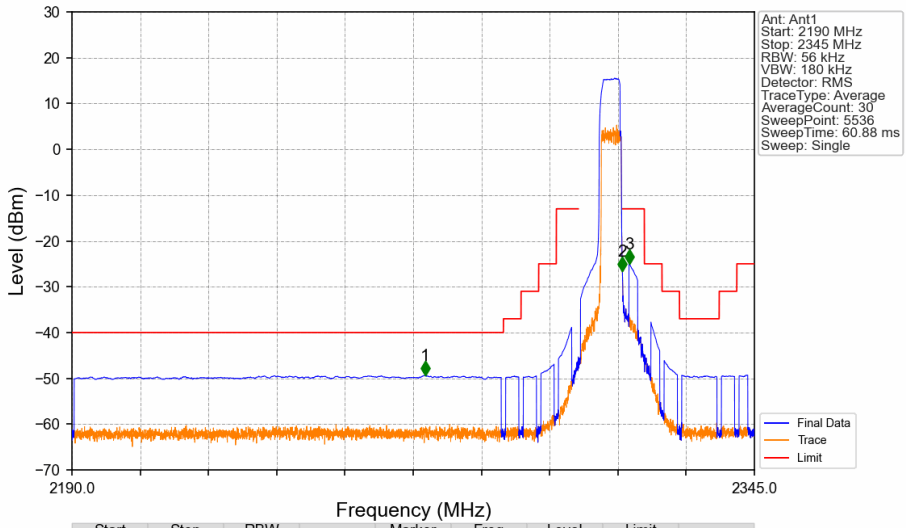


Band30_5MHz_16QAM_HCH_2312.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2254.010	-49.32	-40	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	2	2315.002	-24.71	-13	Pass
2316	2345	1	CHP	3	2329.035	-49.43	-37	Pass

Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2270.202	-49.35	-40	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.056	/	2	2315.008	-26.64	-13	Pass
2316	2345	1	CHP	3	2316.520	-25.00	-13	Pass

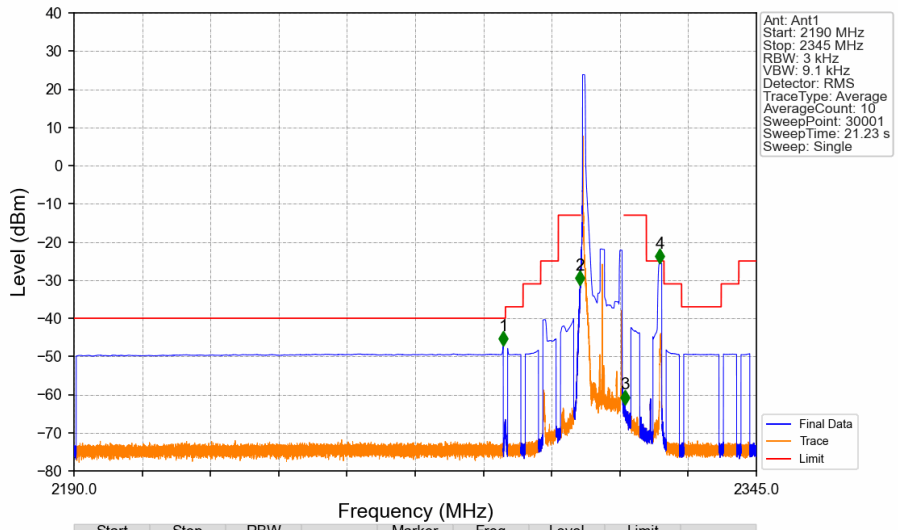
6.2 B30_10MHz

6.2.1 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
16QAM	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

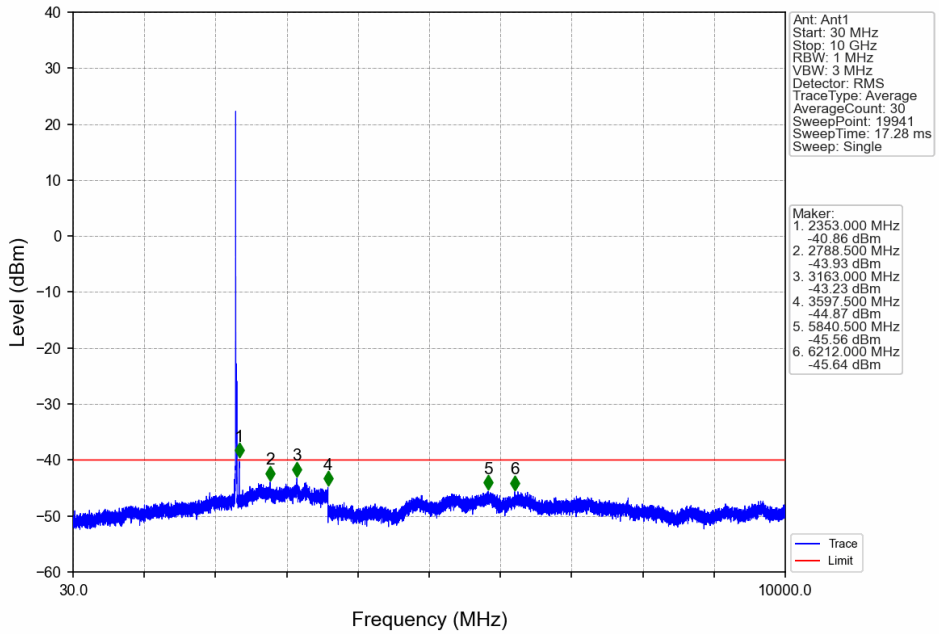
6.2.2 Test Graph

Band30_10MHz_QPSK_LCH_2310MHz_RB_1_0_NTNV

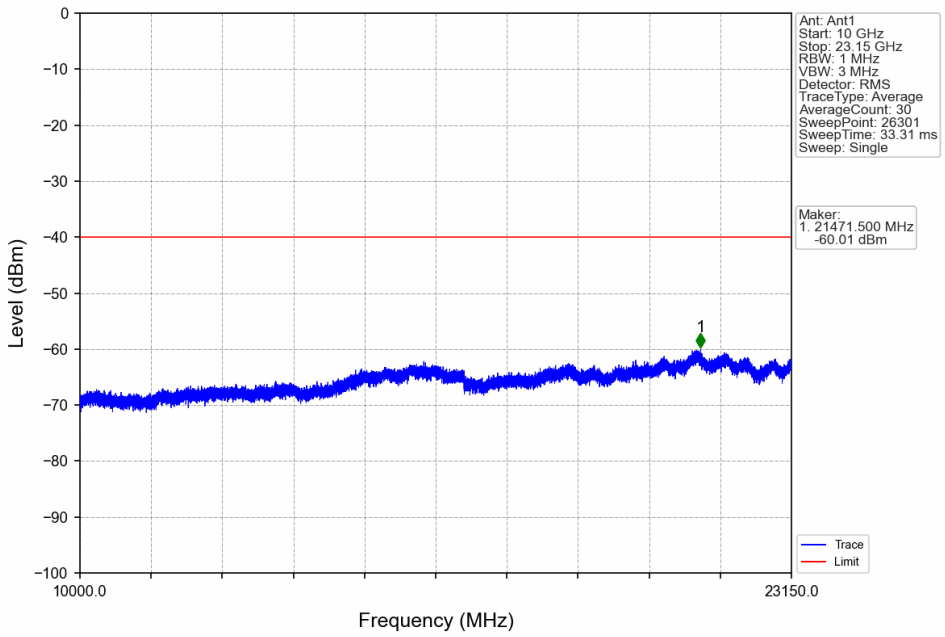


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2287.495	-47.27	-40	Pass
2304	2305	0.003	/	2	2304.958	-31.27	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.152	-62.56	-13	Pass
2316	2345	1	CHP	4	2323.042	-25.59	-25	Pass

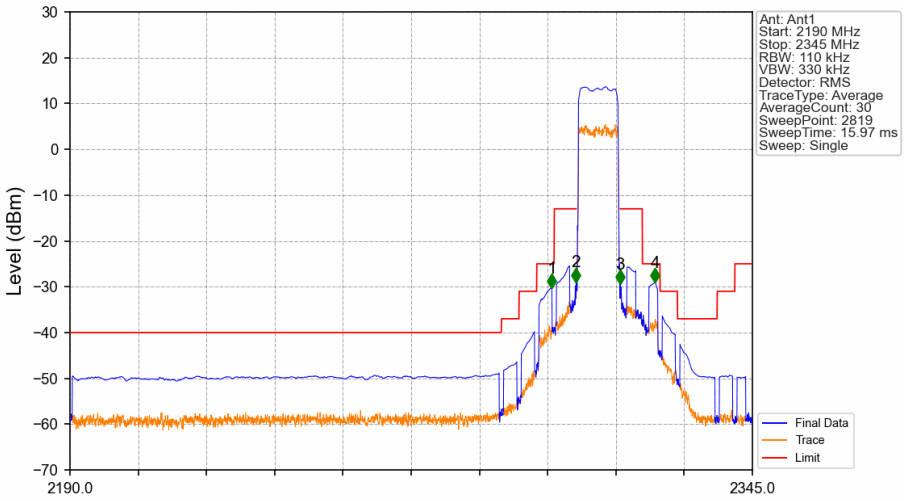
Band30_10MHz_QPSK_LCH_2310MHz_RB_1_0_NTNV



Band30_10MHz_QPSK_LCH_2310MHz_RB_1_0_NTNV

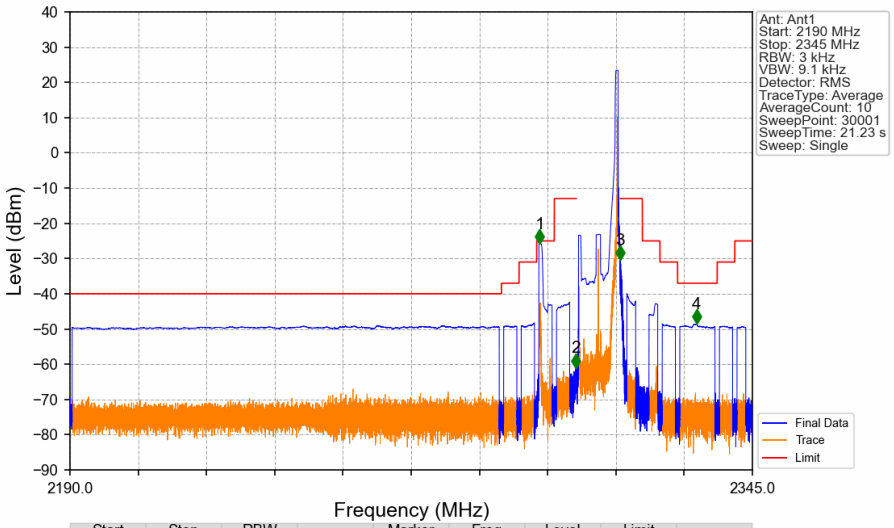


Band30_10MHz_QPSK_LCH_2310MHz_RB_50_0_NTNV



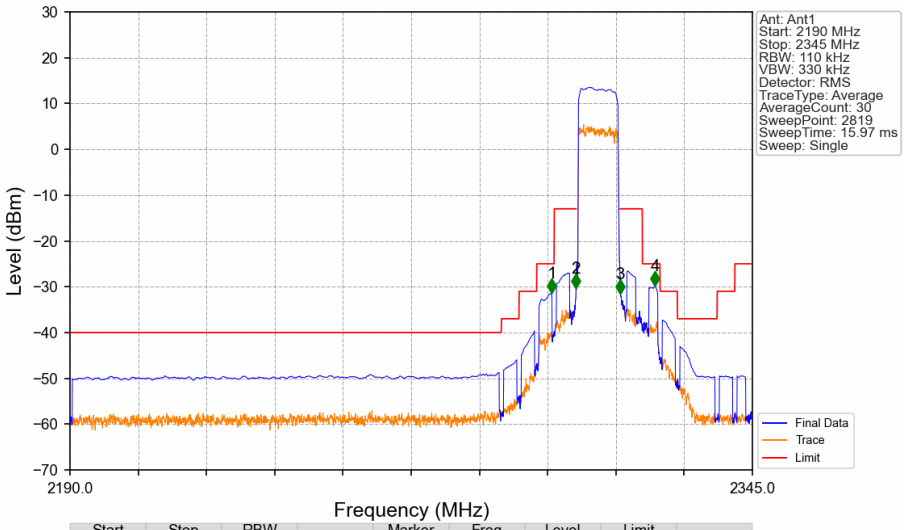
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2299.457	-30.33	-25	Pass
2304	2305	0.11	/	2	2304.957	-29.00	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.11	/	3	2315.023	-29.41	-13	Pass
2316	2345	1	CHP	4	2322.889	-29.14	-25	Pass

Band30_10MHz_QPSK_HCH_2310MHz_RB_1_49_NTNV



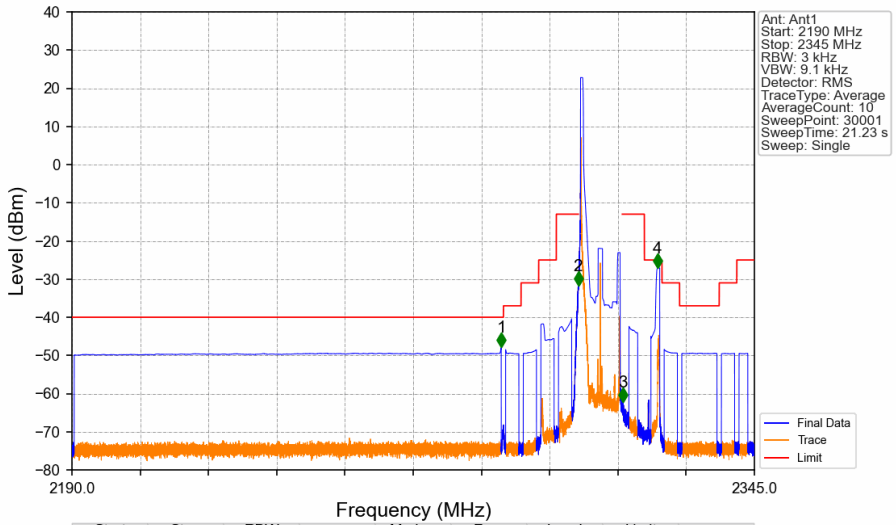
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2296.702	-25.88	-25	Pass
2304	2305	0.003	/	2	2304.943	-61.00	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.013	-30.34	-13	Pass
2316	2345	1	CHP	4	2332.280	-48.54	-37	Pass

Band30_10MHz_QPSK_HCH_2310MHz_RB_50_0_NTNV



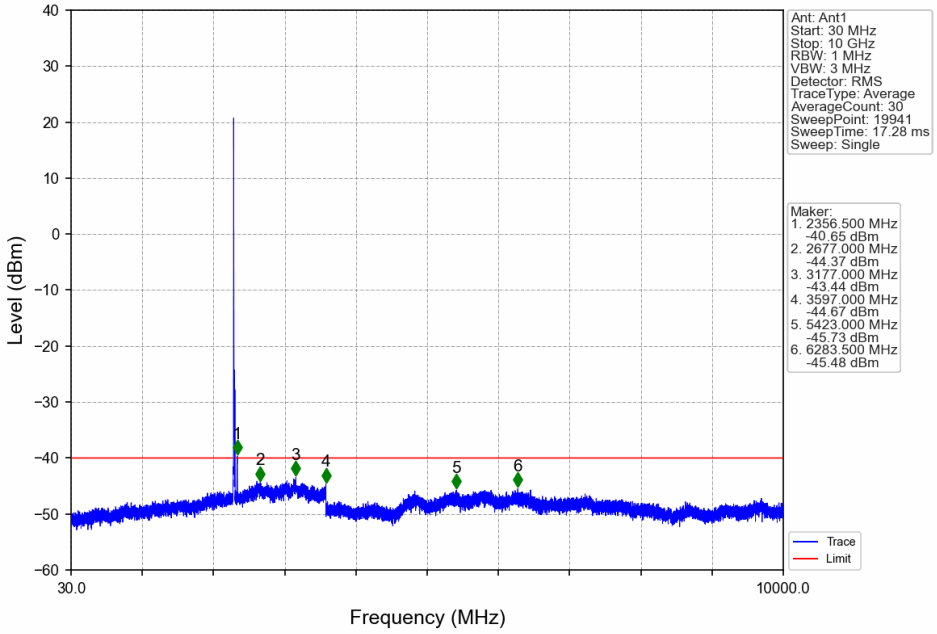
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2299.457	-31.41	-25	Pass
2304	2305	0.11	/	2	2304.957	-30.26	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.11	/	3	2315.023	-31.58	-13	Pass
2316	2345	1	CHP	4	2322.889	-29.84	-25	Pass

Band30_10MHz_16QAM_LCH_2310MHz_RB_1_0_NTNV

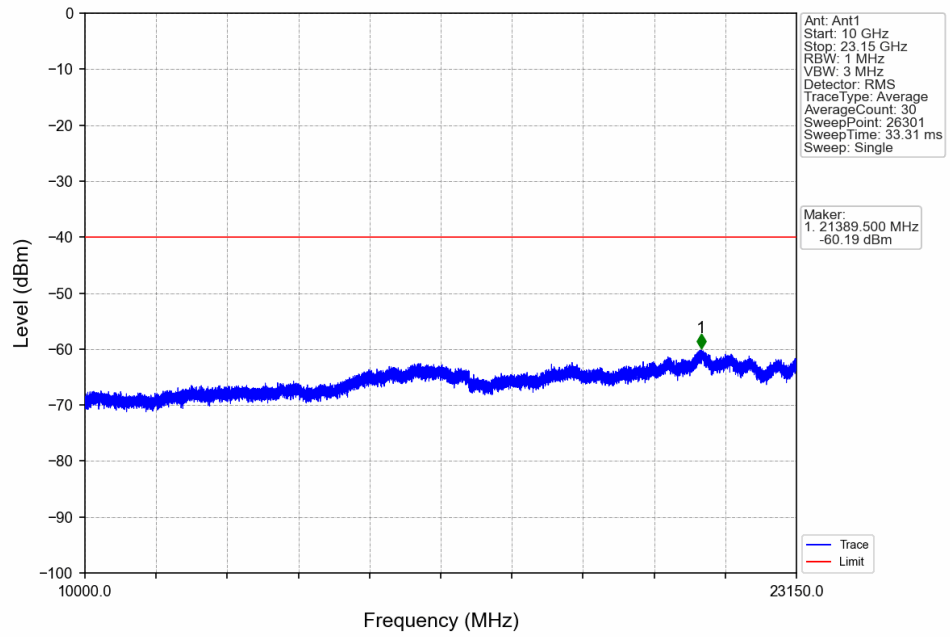


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2287.495	-47.93	-40	Pass
2304	2305	0.003	/	2	2305.000	-31.69	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.126	-62.32	-13	Pass
2316	2345	1	CHP	4	2323.000	-27.05	-25	Pass

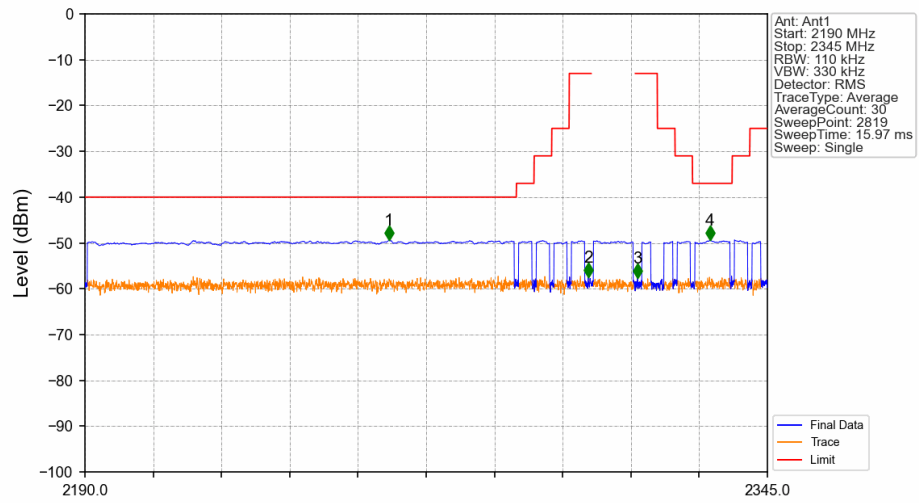
Band30_10MHz_16QAM_LCH_2310MHz_RB_1_0_NTNV



Band30_10MHz_16QAM_LCH_2310MHz_RB_1_0_NTNV

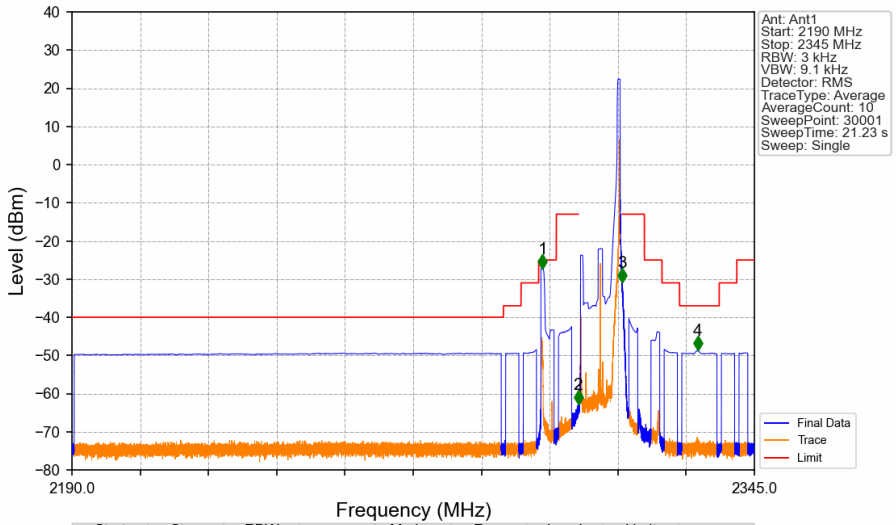


Band30_10MHz_16QAM_LCH_2310MHz_RB_50_0_NTNV



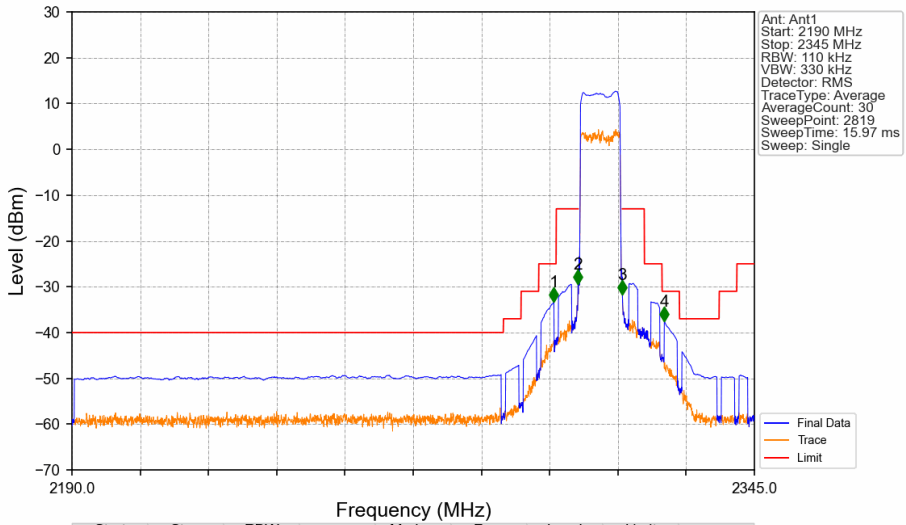
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2259.029	-49.41	-40	Pass
2304	2305	0.11	/	2	2304.297	-57.45	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.11	/	3	2315.518	-57.67	-13	Pass
2316	2345	1	CHP	4	2331.909	-49.44	-37	Pass

Band30_10MHz_16QAM_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	2296.836	-27.29	-25	Pass
2304	2305	0.003	/	2	2305.000	-62.80	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.013	-30.95	-13	Pass
2316	2345	1	CHP	4	2332.135	-48.77	-37	Pass

Band30_10MHz_16QAM_HCH_2310MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2299.457	-33.32	-25	Pass
2304	2305	0.11	/	2	2304.957	-29.46	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.11	/	3	2315.023	-31.72	-13	Pass
2316	2345	1	CHP	4	2324.539	-37.54	-31	Pass

7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
30	5	2307.5	2312.5	0.2028	0.0082	ppm	4M58G7D	27D	23.07
30	5	2307.5	2312.5	0.1538	0.0102	ppm	4M60W7D	27D	21.87
30	10	2310	2310	0.2099	0.0056	ppm	9M07G7D	27D	23.22
30	10	2310	2310	0.1687	0.0026	ppm	9M10W7D	27D	22.27

7.2 Form731_EIRP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
30	5	2307.5	2312.5	0.2679	0.0082	ppm	4M58G7D	27D	24.28
30	5	2307.5	2312.5	0.2032	0.0102	ppm	4M60W7D	27D	23.08
30	10	2310	2310	0.2773	0.0056	ppm	9M07G7D	27D	24.43
30	10	2310	2310	0.2228	0.0026	ppm	9M10W7D	27D	23.48