

1. Effective (Isotropic) Radiated Power Output Data
1.1 B30_5MHz_EIRP
1.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2307.5	1	0	18.91	3.47	22.38	<=23.98	Pass		
			13	19.14	3.47	22.61	<=23.98	Pass		
			24	18.85	3.47	22.32	<=23.98	Pass		
		12	0	18.98	3.47	22.45	<=23.98	Pass		
			6	19.03	3.47	22.50	<=23.98	Pass		
			13	19.02	3.47	22.49	<=23.98	Pass		
		25	0	19.03	3.47	22.50	<=23.98	Pass		
		2310	1	0	18.74	3.47	22.21	<=23.98	Pass	
				13	18.89	3.47	22.36	<=23.98	Pass	
	24			18.66	3.47	22.13	<=23.98	Pass		
	12		0	19.04	3.47	22.51	<=23.98	Pass		
			6	19.15	3.47	22.62	<=23.98	Pass		
			13	19.07	3.47	22.54	<=23.98	Pass		
	25		0	19.09	3.47	22.56	<=23.98	Pass		
	2312.5		1	0	18.83	3.47	22.30	<=23.98	Pass	
				13	19.15	3.47	22.62	<=23.98	Pass	
		24		18.86	3.47	22.33	<=23.98	Pass		
		12	0	19.05	3.47	22.52	<=23.98	Pass		
			6	19.18	3.47	22.65	<=23.98	Pass		
			13	19.08	3.47	22.55	<=23.98	Pass		
		25	0	19.13	3.47	22.60	<=23.98	Pass		
		16QAM	2307.5	1	0	18.73	3.47	22.20	<=23.98	Pass
					13	19.24	3.47	22.71	<=23.98	Pass
	24				18.86	3.47	22.33	<=23.98	Pass	
12	0			18.94	3.47	22.41	<=23.98	Pass		
	6			19.12	3.47	22.59	<=23.98	Pass		
	13			19.08	3.47	22.55	<=23.98	Pass		
25	0			19.01	3.47	22.48	<=23.98	Pass		
2310	1			0	19.36	3.47	22.83	<=23.98	Pass	
				13	19.59	3.47	23.06	<=23.98	Pass	
			24	19.40	3.47	22.87	<=23.98	Pass		
	12		0	19.10	3.47	22.57	<=23.98	Pass		
			6	19.09	3.47	22.56	<=23.98	Pass		
			13	19.13	3.47	22.60	<=23.98	Pass		
	25		0	19.10	3.47	22.57	<=23.98	Pass		
	2312.5		1	0	18.80	3.47	22.27	<=23.98	Pass	
				13	19.23	3.47	22.70	<=23.98	Pass	
24				18.79	3.47	22.26	<=23.98	Pass		
12			0	18.98	3.47	22.45	<=23.98	Pass		
			6	19.19	3.47	22.66	<=23.98	Pass		
			13	19.20	3.47	22.67	<=23.98	Pass		
25			0	19.06	3.47	22.53	<=23.98	Pass		
64QAM			2307.5	1	0	18.35	3.47	21.82	<=23.98	Pass
					13	18.54	3.47	22.01	<=23.98	Pass
	24				18.40	3.47	21.87	<=23.98	Pass	
	12	0		19.06	3.47	22.53	<=23.98	Pass		
		6		19.25	3.47	22.72	<=23.98	Pass		

	2310	25	13	18.97	3.47	22.44	<=23.98	Pass
			0	19.03	3.47	22.50	<=23.98	Pass
			0	19.04	3.47	22.51	<=23.98	Pass
		1	13	19.36	3.47	22.83	<=23.98	Pass
			24	19.10	3.47	22.57	<=23.98	Pass
			0	19.10	3.47	22.57	<=23.98	Pass
		12	6	19.22	3.47	22.69	<=23.98	Pass
			13	19.13	3.47	22.60	<=23.98	Pass
			0	19.09	3.47	22.56	<=23.98	Pass
	2312.5	1	0	18.37	3.47	21.84	<=23.98	Pass
			13	18.63	3.47	22.10	<=23.98	Pass
			24	18.34	3.47	21.81	<=23.98	Pass
		12	0	19.05	3.47	22.52	<=23.98	Pass
			6	19.22	3.47	22.69	<=23.98	Pass
			13	19.19	3.47	22.66	<=23.98	Pass
		25	0	19.09	3.47	22.56	<=23.98	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.2 B30_5MHz_EIRP/5MHz

1.2.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTN										
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	19.57	3.47	23.04	<=23.98	Pass		
			13	19.65	3.47	23.12	<=23.98	Pass		
			24	19.52	3.47	22.99	<=23.98	Pass		
		12	0	19.33	3.47	22.80	<=23.98	Pass		
			6	19.30	3.47	22.77	<=23.98	Pass		
			13	19.31	3.47	22.78	<=23.98	Pass		
		25	0	18.87	3.47	22.34	<=23.98	Pass		
		2310	1	0	19.31	3.47	22.78	<=23.98	Pass	
				13	19.37	3.47	22.84	<=23.98	Pass	
	24			19.28	3.47	22.75	<=23.98	Pass		
	12		0	19.36	3.47	22.83	<=23.98	Pass		
			6	19.49	3.47	22.96	<=23.98	Pass		
			13	19.36	3.47	22.83	<=23.98	Pass		
	25		0	18.98	3.47	22.45	<=23.98	Pass		
	2312.5		1	0	19.55	3.47	23.02	<=23.98	Pass	
				13	19.74	3.47	23.21	<=23.98	Pass	
		24		19.77	3.47	23.24	<=23.98	Pass		
		12	0	19.38	3.47	22.85	<=23.98	Pass		
			6	19.32	3.47	22.79	<=23.98	Pass		
			13	19.40	3.47	22.87	<=23.98	Pass		
		25	0	18.99	3.47	22.46	<=23.98	Pass		
		16QAM	2307.5	1	0	19.73	3.47	23.20	<=23.98	Pass
					13	19.93	3.47	23.40	<=23.98	Pass
	24				19.80	3.47	23.27	<=23.98	Pass	
	12			0	19.40	3.47	22.87	<=23.98	Pass	
				6	19.32	3.47	22.79	<=23.98	Pass	
				13	19.49	3.47	22.96	<=23.98	Pass	
25	0		18.94	3.47	22.41	<=23.98	Pass			
2310	1		0	20.34	3.47	23.81	<=23.98	Pass		
			13	20.06	3.47	23.53	<=23.98	Pass		

		12	24	20.12	3.47	23.59	<=23.98	Pass								
			0	19.47	3.47	22.94	<=23.98	Pass								
			6	19.17	3.47	22.64	<=23.98	Pass								
			13	19.46	3.47	22.93	<=23.98	Pass								
		2312.5	25	0	19.04	3.47	22.51	<=23.98	Pass							
				1	0	19.43	3.47	22.90	<=23.98	Pass						
					13	19.78	3.47	23.25	<=23.98	Pass						
		24	19.64		3.47	23.11	<=23.98	Pass								
			64QAM	2307.5	1	0	19.18	3.47	22.65	<=23.98	Pass					
						13	19.29	3.47	22.76	<=23.98	Pass					
						24	19.20	3.47	22.67	<=23.98	Pass					
					64QAM	2307.5	12	0	19.29	3.47	22.76	<=23.98	Pass			
								6	19.47	3.47	22.94	<=23.98	Pass			
								13	19.33	3.47	22.80	<=23.98	Pass			
							64QAM	2307.5	25	0	18.96	3.47	22.43	<=23.98	Pass	
2310										1	0	20.16	3.47	23.63	<=23.98	Pass
											13	20.07	3.47	23.54	<=23.98	Pass
			24					19.72	3.47		23.19	<=23.98	Pass			
			64QAM					2310	12	0	19.46	3.47	22.93	<=23.98	Pass	
	6									19.66	3.47	23.13	<=23.98	Pass		
	13				19.51					3.47	22.98	<=23.98	Pass			
					64QAM			2310	25	0	18.91	3.47	22.38	<=23.98	Pass	
										2312.5	1	0	19.24	3.47	22.71	<=23.98
		13					19.03					3.47	22.50	<=23.98	Pass	
		24					19.13	3.47	22.60			<=23.98	Pass			
							64QAM	2312.5	12	0	19.41	3.47	22.88	<=23.98	Pass	
				6						19.60	3.47	23.07	<=23.98	Pass		
			13	19.51						3.47	22.98	<=23.98	Pass			
				64QAM				2312.5	25	0	19.15	3.47	22.62	<=23.98	Pass	

Note1: EIRP/5MHz=Conducted Power+Antenna Gain-2.15

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	19.00	3.47	22.47	<=23.98	Pass		
			25	19.34	3.47	22.81	<=23.98	Pass		
			49	19.04	3.47	22.51	<=23.98	Pass		
		25	0	19.13	3.47	22.60	<=23.98	Pass		
			13	19.20	3.47	22.67	<=23.98	Pass		
			25	19.11	3.47	22.58	<=23.98	Pass		
		50	0	19.15	3.47	22.62	<=23.98	Pass		
		16QAM	2310	1	0	19.44	3.47	22.91	<=23.98	Pass
					25	19.79	3.47	23.26	<=23.98	Pass
49	19.39				3.47	22.86	<=23.98	Pass		
25	0			19.29	3.47	22.76	<=23.98	Pass		
	13			19.27	3.47	22.74	<=23.98	Pass		
	25			19.20	3.47	22.67	<=23.98	Pass		
50	0			18.98	3.47	22.45	<=23.98	Pass		
64QAM	2310			1	0	18.74	3.47	22.21	<=23.98	Pass
					25	19.67	3.47	23.14	<=23.98	Pass
		49	19.22		3.47	22.69	<=23.98	Pass		
		25	0	19.01	3.47	22.48	<=23.98	Pass		
			13	19.31	3.47	22.78	<=23.98	Pass		
			25	19.31	3.47	22.78	<=23.98	Pass		
		50	0	19.06	3.47	22.53	<=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	19.46	3.47	22.93	<=23.98	Pass		
			25	20.00	3.47	23.47	<=23.98	Pass		
			49	19.63	3.47	23.10	<=23.98	Pass		
		25	0	18.94	3.47	22.41	<=23.98	Pass		
			13	18.99	3.47	22.46	<=23.98	Pass		
			25	18.95	3.47	22.42	<=23.98	Pass		
		50	0	17.03	3.47	20.50	<=23.98	Pass		
		16QAM	2310	1	0	20.00	3.47	23.47	<=23.98	Pass
					25	19.85	3.47	23.32	<=23.98	Pass
49	19.77				3.47	23.24	<=23.98	Pass		
25	0			19.17	3.47	22.64	<=23.98	Pass		
	13			19.21	3.47	22.68	<=23.98	Pass		
	25			19.12	3.47	22.59	<=23.98	Pass		
50	0			16.90	3.47	20.37	<=23.98	Pass		
64QAM	2310			1	0	19.92	3.47	23.39	<=23.98	Pass
					25	20.32	3.47	23.79	<=23.98	Pass
		49	20.20		3.47	23.67	<=23.98	Pass		

		25	0	19.15	3.47	22.62	<=23.98	Pass
			13	19.16	3.47	22.63	<=23.98	Pass
			25	19.18	3.47	22.65	<=23.98	Pass
		50	0	16.96	3.47	20.43	<=23.98	Pass
Note1: EIRP/5MHz=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 B30_5MHz

2.1.1 Test Result

Band: 30 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2307.5	25	0	20	102	4.077	0.0018	-2.5 to 2.5	Pass
					120	3.161	0.0014	-2.5 to 2.5	Pass
					138	4.005	0.0017	-2.5 to 2.5	Pass
				-30	120	2.503	0.0011	-2.5 to 2.5	Pass
					120	5.336	0.0023	-2.5 to 2.5	Pass
				-10	120	3.963	0.0017	-2.5 to 2.5	Pass
					120	4.563	0.0020	-2.5 to 2.5	Pass
				10	120	4.263	0.0018	-2.5 to 2.5	Pass
				30	120	3.004	0.0013	-2.5 to 2.5	Pass
				40	120	4.892	0.0021	-2.5 to 2.5	Pass
	50	120	3.433	0.0015	-2.5 to 2.5	Pass			
	2310	25	0	20	102	-4.091	-0.0018	-2.5 to 2.5	Pass
					120	-4.492	-0.0019	-2.5 to 2.5	Pass
					138	-4.463	-0.0019	-2.5 to 2.5	Pass
				-30	120	-4.678	-0.0020	-2.5 to 2.5	Pass
					120	-3.319	-0.0014	-2.5 to 2.5	Pass
				-10	120	-4.306	-0.0019	-2.5 to 2.5	Pass
					120	-4.077	-0.0018	-2.5 to 2.5	Pass
				10	120	-5.107	-0.0022	-2.5 to 2.5	Pass
				30	120	-3.576	-0.0015	-2.5 to 2.5	Pass
				40	120	-3.662	-0.0016	-2.5 to 2.5	Pass
	50	120	-5.193	-0.0022	-2.5 to 2.5	Pass			
	2312.5	25	0	20	102	0.000	0.0000	-2.5 to 2.5	Pass
					120	-0.715	-0.0003	-2.5 to 2.5	Pass
					138	-0.815	-0.0004	-2.5 to 2.5	Pass
				-30	120	0.515	0.0002	-2.5 to 2.5	Pass
					120	1.130	0.0005	-2.5 to 2.5	Pass
				-10	120	2.260	0.0010	-2.5 to 2.5	Pass
					120	0.701	0.0003	-2.5 to 2.5	Pass
				10	120	-0.501	-0.0002	-2.5 to 2.5	Pass
30				120	2.217	0.0010	-2.5 to 2.5	Pass	
40				120	-0.572	-0.0002	-2.5 to 2.5	Pass	
50	120	2.718	0.0012	-2.5 to 2.5	Pass				
16QAM	2307.5	25	0	20	102	1.917	0.0008	-2.5 to 2.5	Pass
					120	1.688	0.0007	-2.5 to 2.5	Pass
					138	4.907	0.0021	-2.5 to 2.5	Pass
				-30	120	4.506	0.0020	-2.5 to 2.5	Pass
					120	2.661	0.0012	-2.5 to 2.5	Pass
				-10	120	3.018	0.0013	-2.5 to 2.5	Pass
0	120	1.745	0.0008	-2.5 to 2.5	Pass				

				10	120	3.119	0.0014	-2.5 to 2.5	Pass	
				30	120	3.061	0.0013	-2.5 to 2.5	Pass	
				40	120	3.777	0.0016	-2.5 to 2.5	Pass	
				50	120	3.934	0.0017	-2.5 to 2.5	Pass	
	2310	25	0	20	102	-3.848	-0.0017	-2.5 to 2.5	Pass	
					120	-4.706	-0.0020	-2.5 to 2.5	Pass	
					138	-3.662	-0.0016	-2.5 to 2.5	Pass	
				-30	120	-2.360	-0.0010	-2.5 to 2.5	Pass	
				-20	120	-5.107	-0.0022	-2.5 to 2.5	Pass	
				-10	120	-4.449	-0.0019	-2.5 to 2.5	Pass	
				0	120	-4.005	-0.0017	-2.5 to 2.5	Pass	
				10	120	-2.747	-0.0012	-2.5 to 2.5	Pass	
				30	120	-2.890	-0.0013	-2.5 to 2.5	Pass	
				40	120	-4.277	-0.0019	-2.5 to 2.5	Pass	
				50	120	-5.636	-0.0024	-2.5 to 2.5	Pass	
				2312.5	25	0	20	102	2.275	0.0010
	120	1.502	0.0006					-2.5 to 2.5	Pass	
	138	1.059	0.0005					-2.5 to 2.5	Pass	
	-30	120	0.401				0.0002	-2.5 to 2.5	Pass	
	-20	120	2.804				0.0012	-2.5 to 2.5	Pass	
	-10	120	0.958				0.0004	-2.5 to 2.5	Pass	
	0	120	1.187				0.0005	-2.5 to 2.5	Pass	
	10	120	1.874				0.0008	-2.5 to 2.5	Pass	
	30	120	-0.443				-0.0002	-2.5 to 2.5	Pass	
	40	120	0.858				0.0004	-2.5 to 2.5	Pass	
	50	120	-0.229				-0.0001	-2.5 to 2.5	Pass	
	64QAM	2307.5	25				0	20	102	2.117
				120	1.674	0.0007			-2.5 to 2.5	Pass
138				2.604	0.0011	-2.5 to 2.5			Pass	
-30				120	-0.114	0.0000		-2.5 to 2.5	Pass	
-20				120	0.644	0.0003		-2.5 to 2.5	Pass	
-10				120	1.016	0.0004		-2.5 to 2.5	Pass	
0				120	0.629	0.0003		-2.5 to 2.5	Pass	
10				120	0.401	0.0002		-2.5 to 2.5	Pass	
30				120	1.245	0.0005		-2.5 to 2.5	Pass	
40				120	2.418	0.0010		-2.5 to 2.5	Pass	
50				120	2.475	0.0011		-2.5 to 2.5	Pass	
2310				25	0	20		102	-3.505	-0.0015
		120	-5.264				-0.0023	-2.5 to 2.5	Pass	
		138	-4.892				-0.0021	-2.5 to 2.5	Pass	
		-30	120			-3.791	-0.0016	-2.5 to 2.5	Pass	
		-20	120			-3.777	-0.0016	-2.5 to 2.5	Pass	
		-10	120			-4.034	-0.0017	-2.5 to 2.5	Pass	
		0	120			-3.548	-0.0015	-2.5 to 2.5	Pass	
		10	120			-5.064	-0.0022	-2.5 to 2.5	Pass	
		30	120			-4.892	-0.0021	-2.5 to 2.5	Pass	
		40	120			-3.533	-0.0015	-2.5 to 2.5	Pass	
		50	120			-4.621	-0.0020	-2.5 to 2.5	Pass	
		2312.5	25			0	20	102	-0.973	-0.0004
120				1.130	0.0005			-2.5 to 2.5	Pass	
138				0.429	0.0002			-2.5 to 2.5	Pass	
-30				120	1.087		0.0005	-2.5 to 2.5	Pass	
-20				120	1.316		0.0006	-2.5 to 2.5	Pass	
-10				120	-1.130		-0.0005	-2.5 to 2.5	Pass	
0	120			0.515	0.0002		-2.5 to 2.5	Pass		
10	120			1.645	0.0007		-2.5 to 2.5	Pass		
30	120			0.329	0.0001		-2.5 to 2.5	Pass		
40	120			-0.587	-0.0003		-2.5 to 2.5	Pass		

				50	120	-1.545	-0.0007	-2.5 to 2.5	Pass
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2.2 B30_10MHz

2.2.1 Test Result

Band: 30 / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2310	50	0	20	102	-3.018	-0.0013	-2.5 to 2.5	Pass	
					120	-3.490	-0.0015	-2.5 to 2.5	Pass	
					138	-3.304	-0.0014	-2.5 to 2.5	Pass	
				-30	120	-3.176	-0.0014	-2.5 to 2.5	Pass	
					-20	120	-3.691	-0.0016	-2.5 to 2.5	Pass
						120	-3.290	-0.0014	-2.5 to 2.5	Pass
					0	120	-2.789	-0.0012	-2.5 to 2.5	Pass
					10	120	-4.349	-0.0019	-2.5 to 2.5	Pass
					30	120	-2.646	-0.0011	-2.5 to 2.5	Pass
					40	120	-3.405	-0.0015	-2.5 to 2.5	Pass
50	120	-3.233	-0.0014	-2.5 to 2.5	Pass					
16QAM	2310	50	0	20	102	-0.572	-0.0002	-2.5 to 2.5	Pass	
					120	-3.376	-0.0015	-2.5 to 2.5	Pass	
					138	-3.533	-0.0015	-2.5 to 2.5	Pass	
				-30	120	-2.732	-0.0012	-2.5 to 2.5	Pass	
					-20	120	-2.160	-0.0009	-2.5 to 2.5	Pass
						120	-2.432	-0.0011	-2.5 to 2.5	Pass
					0	120	-1.688	-0.0007	-2.5 to 2.5	Pass
					10	120	-2.832	-0.0012	-2.5 to 2.5	Pass
					30	120	-2.632	-0.0011	-2.5 to 2.5	Pass
					40	120	-2.789	-0.0012	-2.5 to 2.5	Pass
50	120	-2.961	-0.0013	-2.5 to 2.5	Pass					
64QAM	2310	50	0	20	102	-1.874	-0.0008	-2.5 to 2.5	Pass	
					120	-2.804	-0.0012	-2.5 to 2.5	Pass	
					138	-4.077	-0.0018	-2.5 to 2.5	Pass	
				-30	120	-2.160	-0.0009	-2.5 to 2.5	Pass	
					-20	120	-3.433	-0.0015	-2.5 to 2.5	Pass
						120	-2.246	-0.0010	-2.5 to 2.5	Pass
					0	120	-3.161	-0.0014	-2.5 to 2.5	Pass
					10	120	-3.362	-0.0015	-2.5 to 2.5	Pass
					30	120	-2.546	-0.0011	-2.5 to 2.5	Pass
					40	120	-0.558	-0.0002	-2.5 to 2.5	Pass
50	120	-1.359	-0.0006	-2.5 to 2.5	Pass					

3. 99% & 26dB Bandwidth

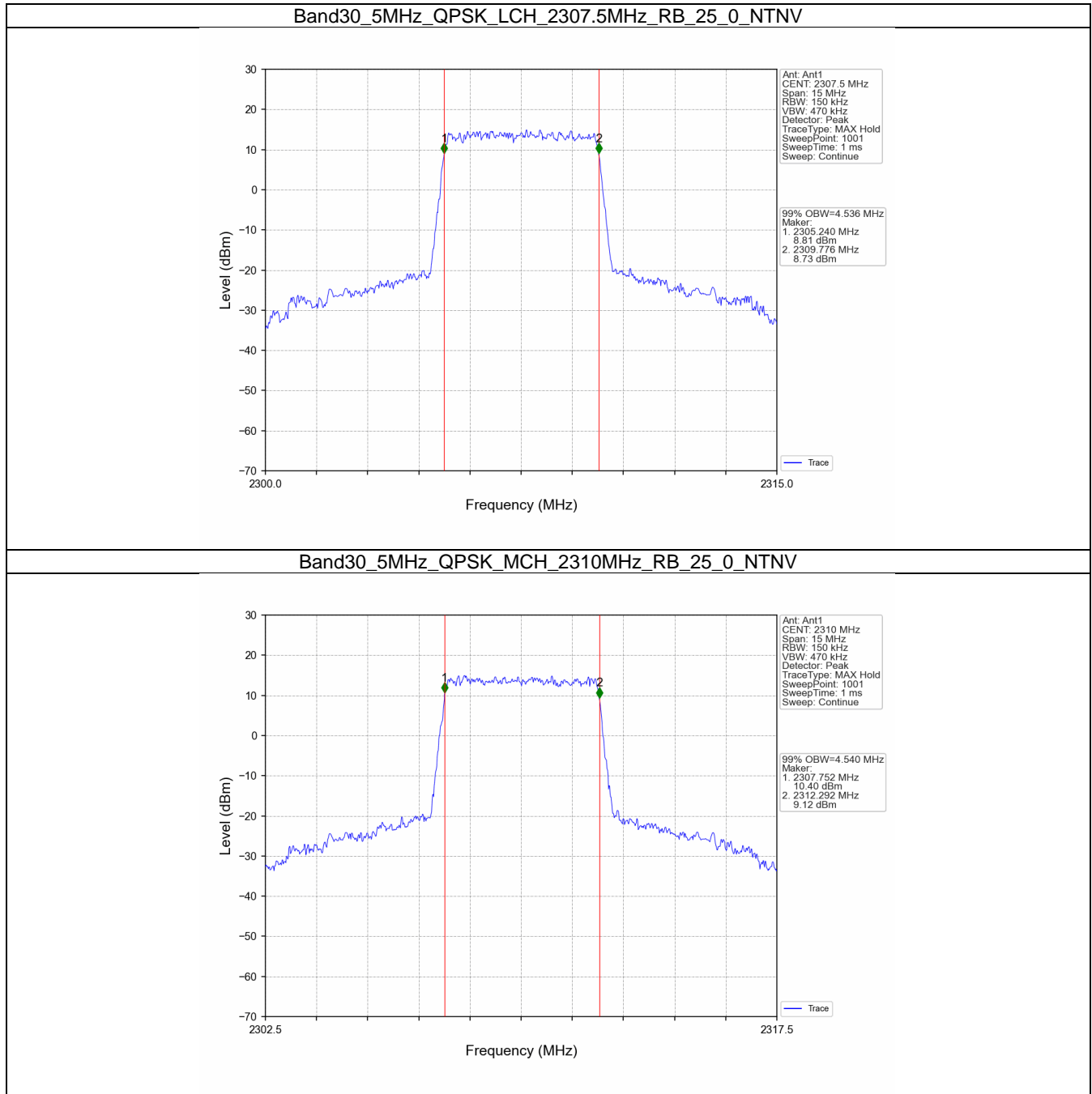
3.1 Band30_OBW

3.1.1 Test Result

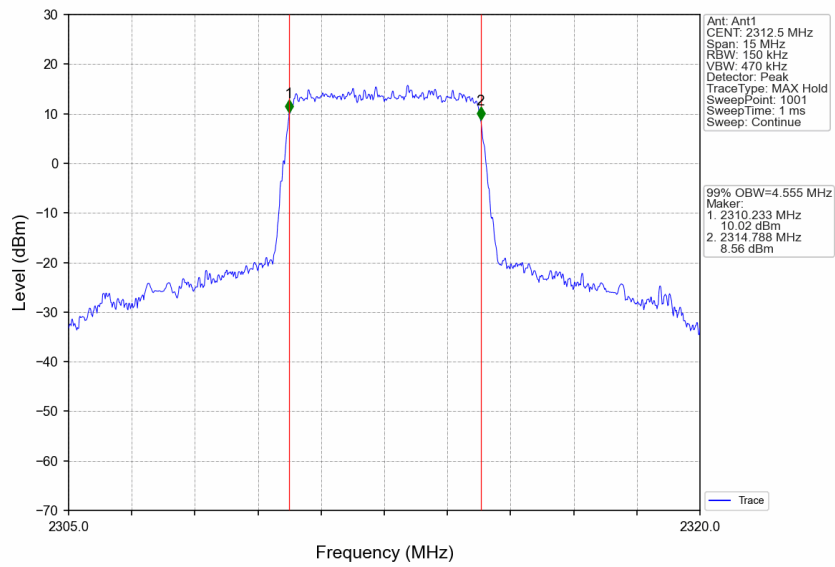
Band: 30 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	4.536	/	Pass

		2310	25	0	4.540	/	Pass	
		2312.5	25	0	4.555	/	Pass	
	16QAM	2307.5	25	0	4.539	/	Pass	
		2310	25	0	4.556	/	Pass	
		2312.5	25	0	4.534	/	Pass	
	64QAM	2307.5	25	0	4.555	/	Pass	
		2310	25	0	4.543	/	Pass	
		2312.5	25	0	4.536	/	Pass	
	10	QPSK	2310	50	0	9.054	/	Pass
		16QAM	2310	50	0	9.085	/	Pass
64QAM		2310	50	0	9.043	/	Pass	

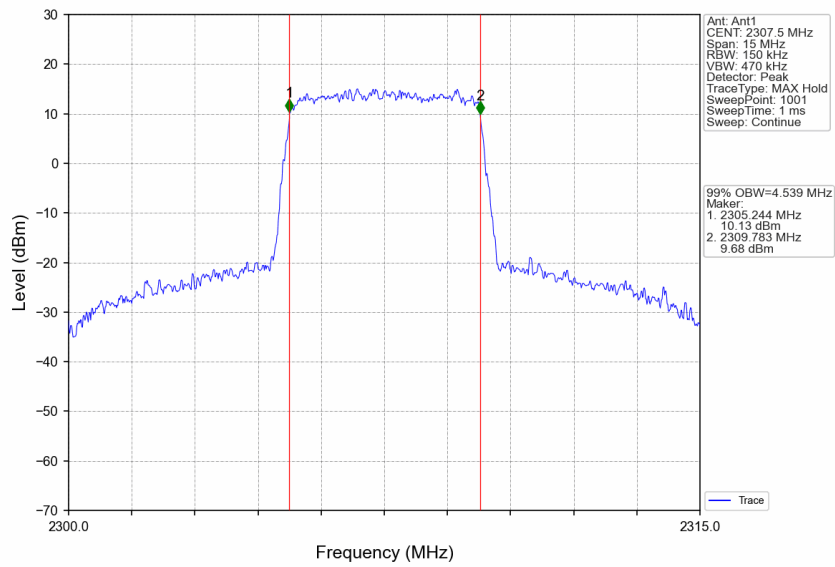
3.1.2 Test Graph



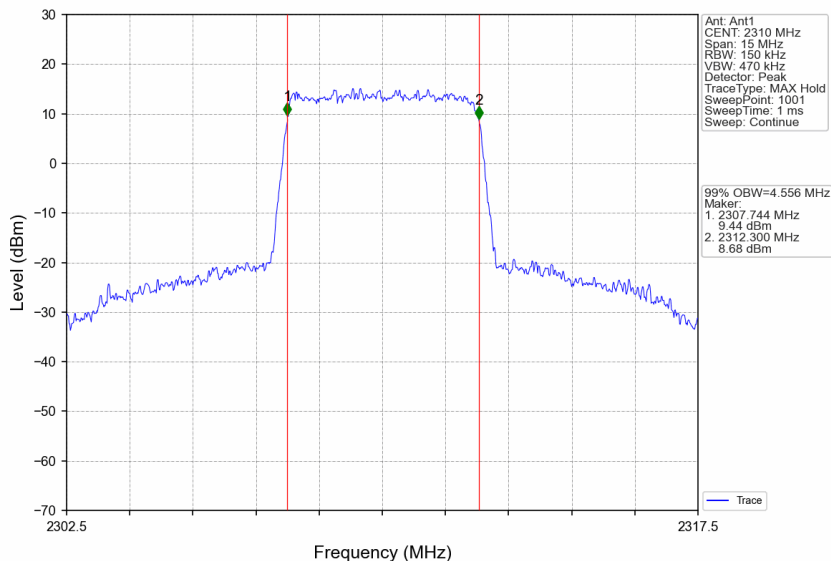
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



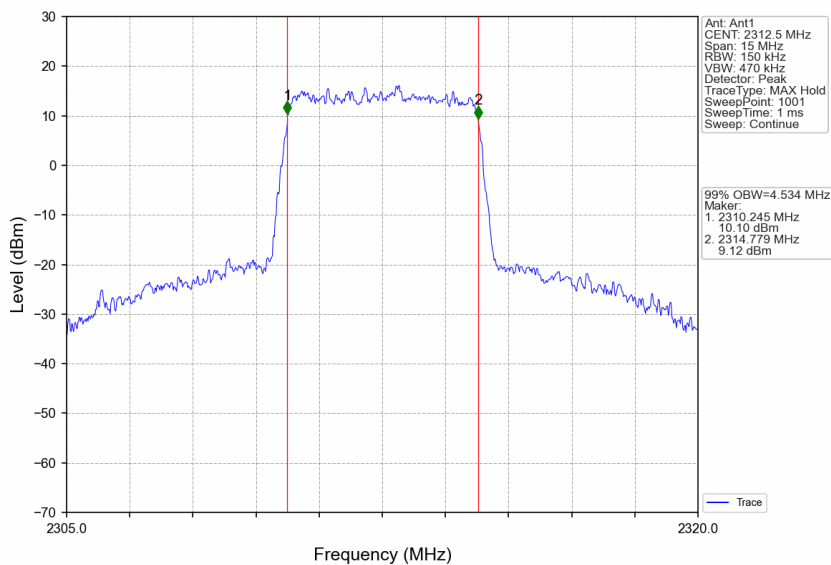
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



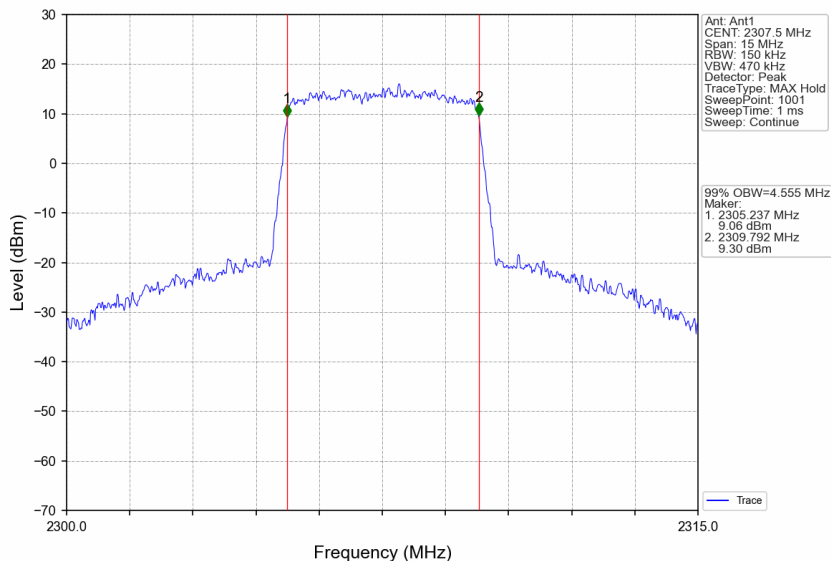
Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



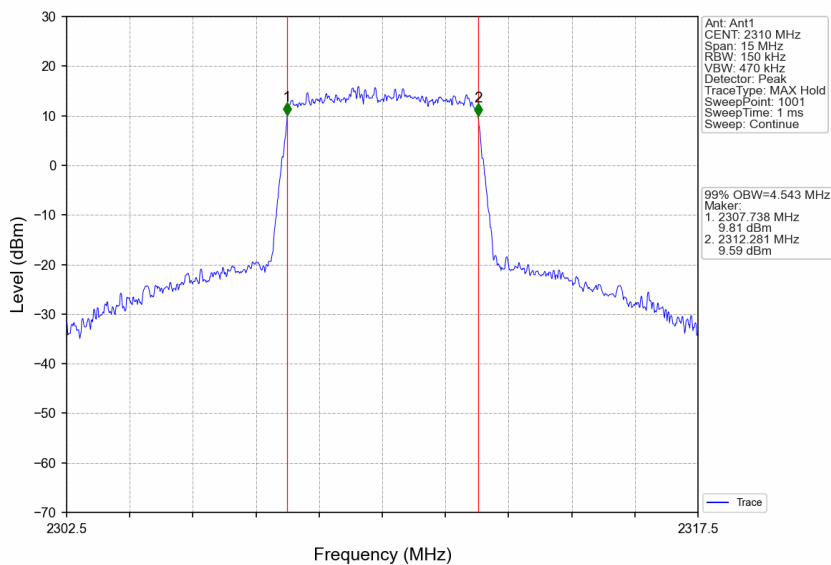
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



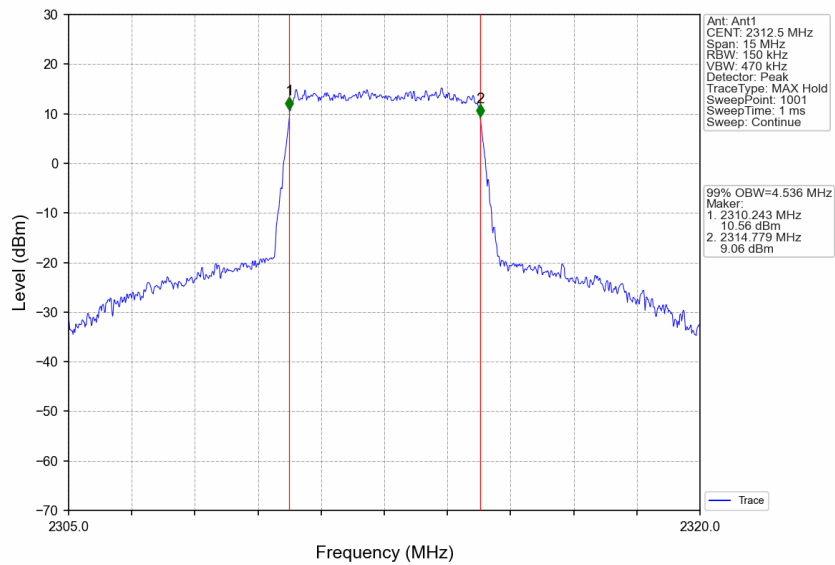
Band30_5MHz_64QAM_LCH_2307.5MHz_RB_25_0_NTNV



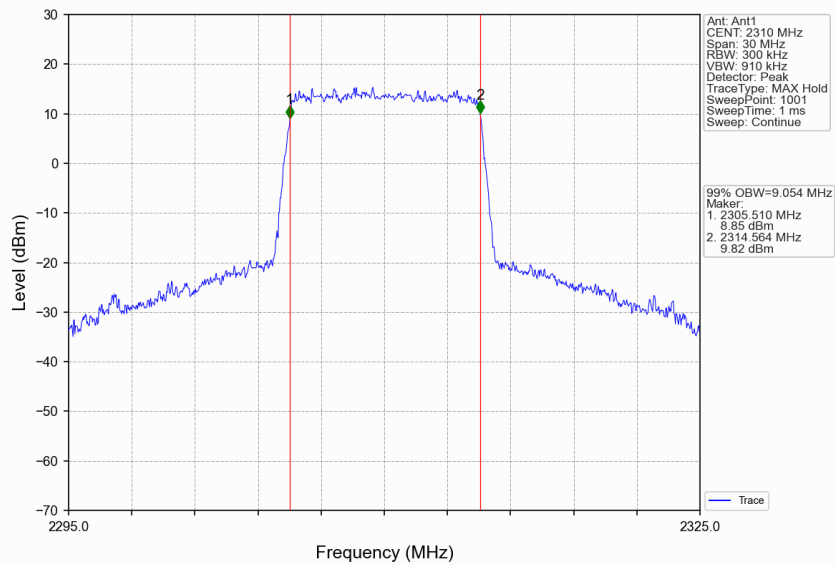
Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



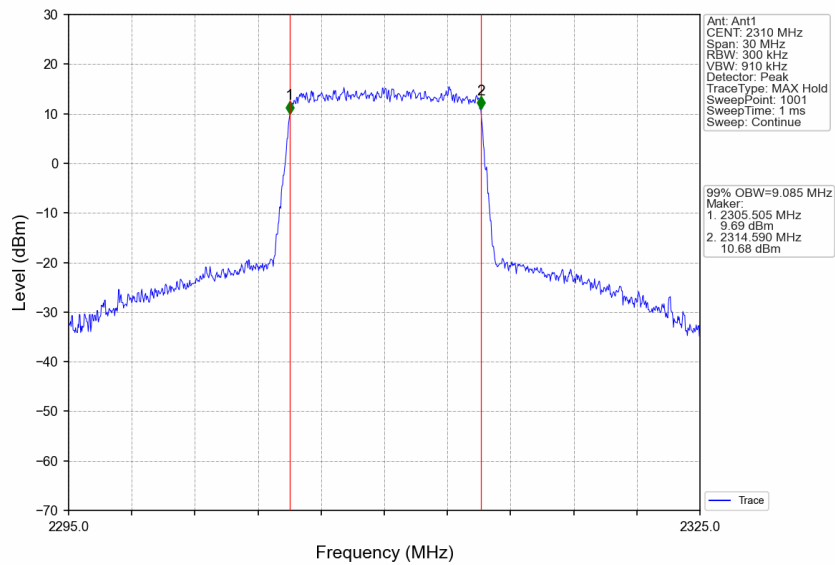
Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV



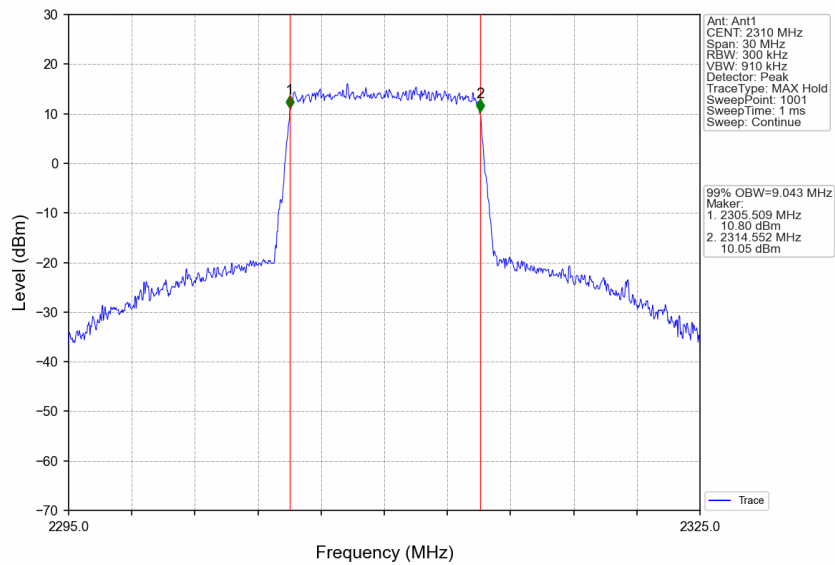
Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV

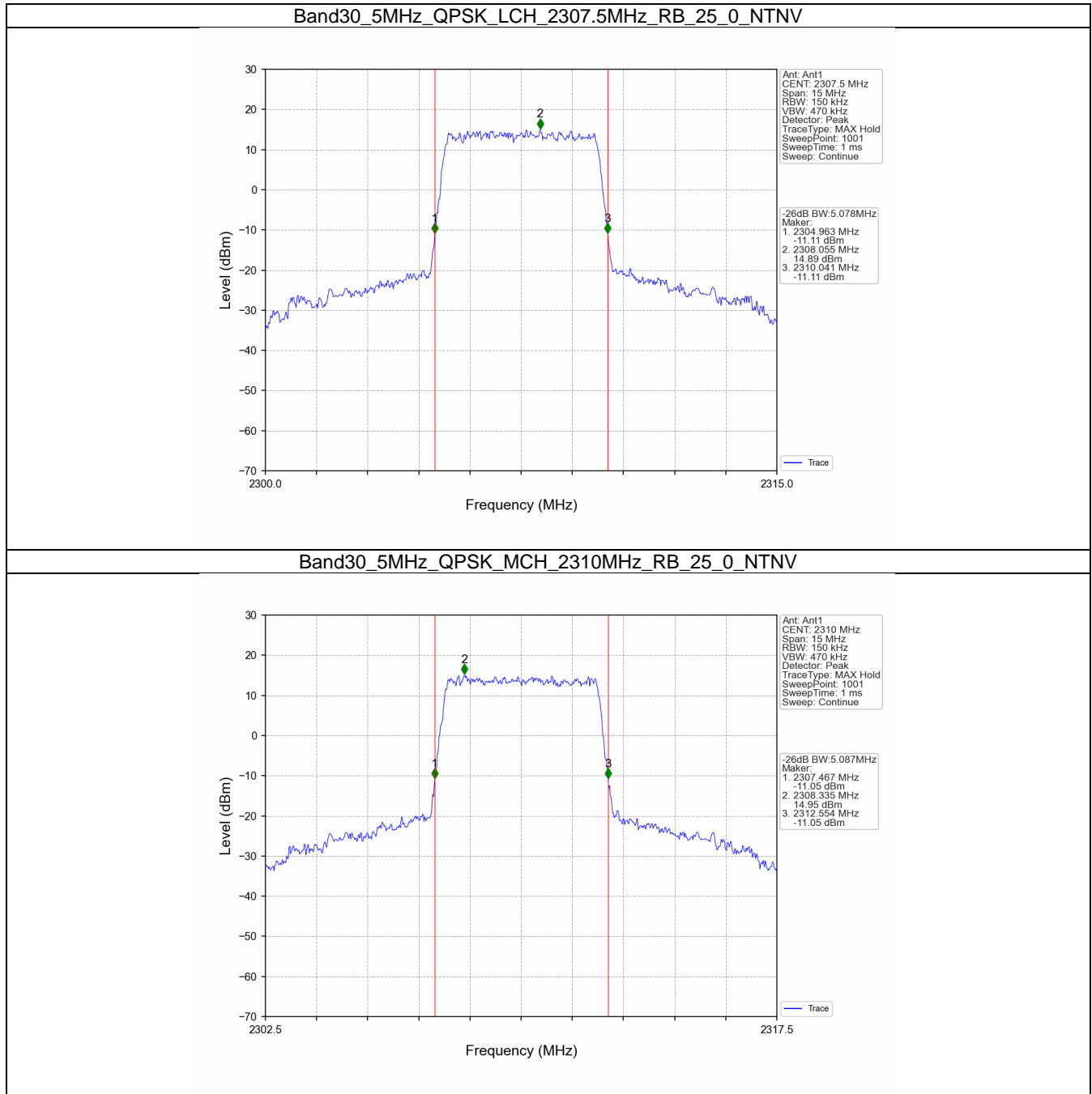


3.2 Band30_XDB

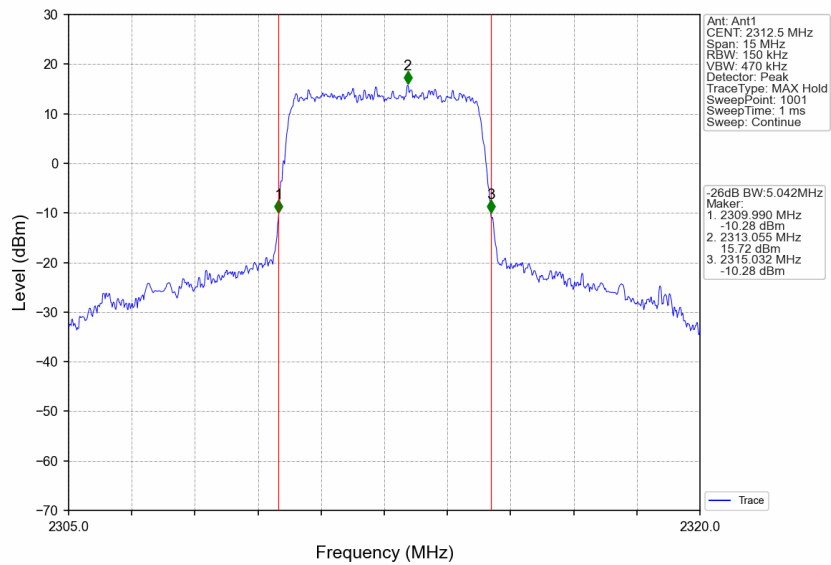
3.2.1 Test Result

Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	5.078	/	Pass
		2310	25	0	5.087	/	Pass
		2312.5	25	0	5.042	/	Pass
	16QAM	2307.5	25	0	5.084	/	Pass
		2310	25	0	5.106	/	Pass
		2312.5	25	0	5.058	/	Pass
	64QAM	2307.5	25	0	5.075	/	Pass
		2310	25	0	5.064	/	Pass
		2312.5	25	0	5.091	/	Pass
10	QPSK	2310	50	0	10.041	/	Pass
	16QAM	2310	50	0	10.025	/	Pass
	64QAM	2310	50	0	10.033	/	Pass

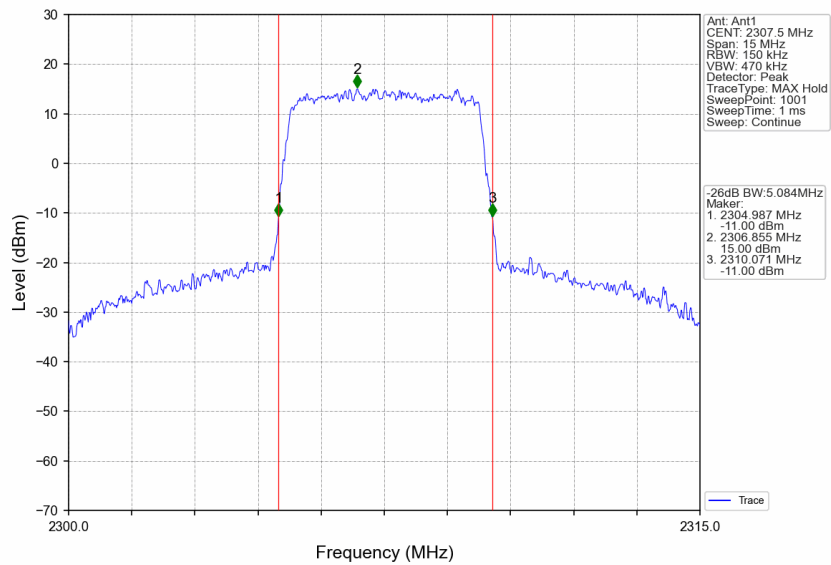
3.2.2 Test Graph



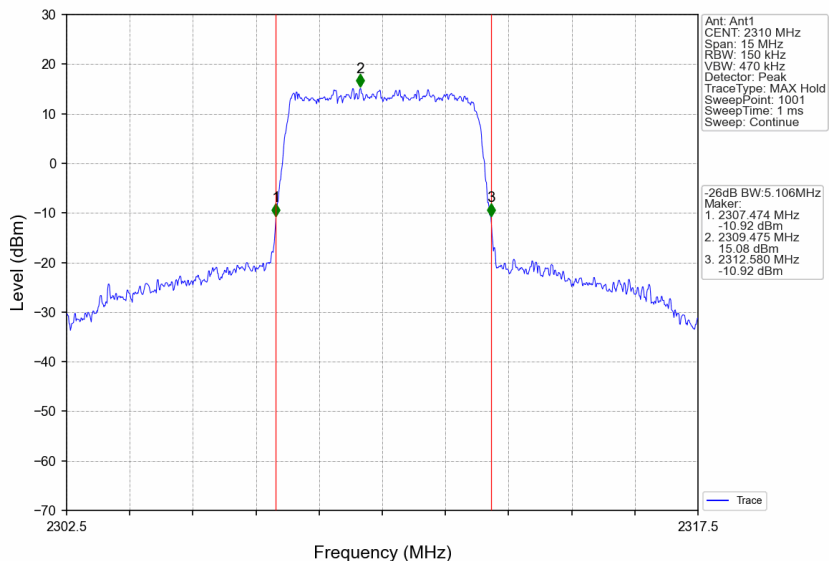
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



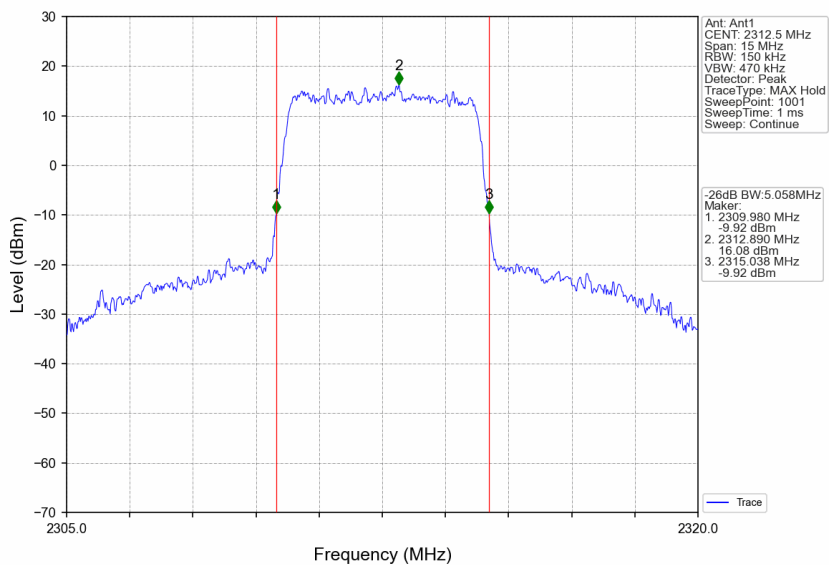
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



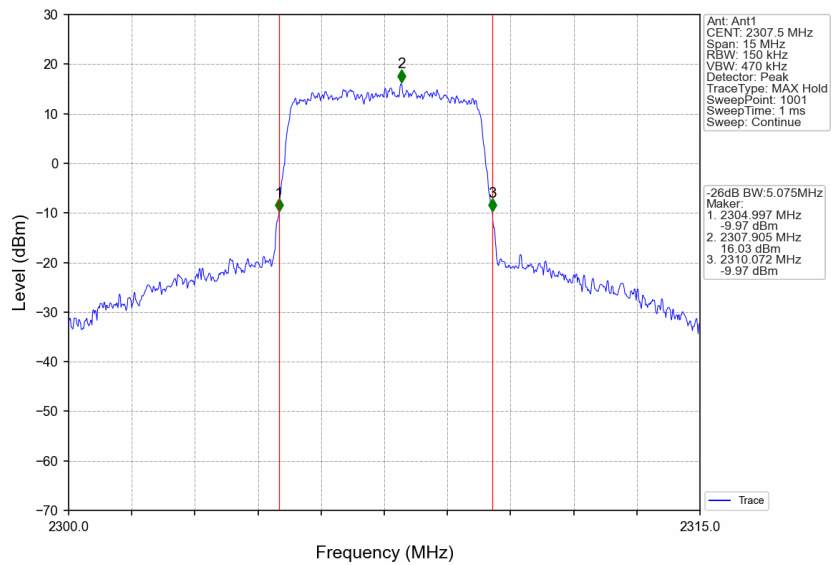
Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



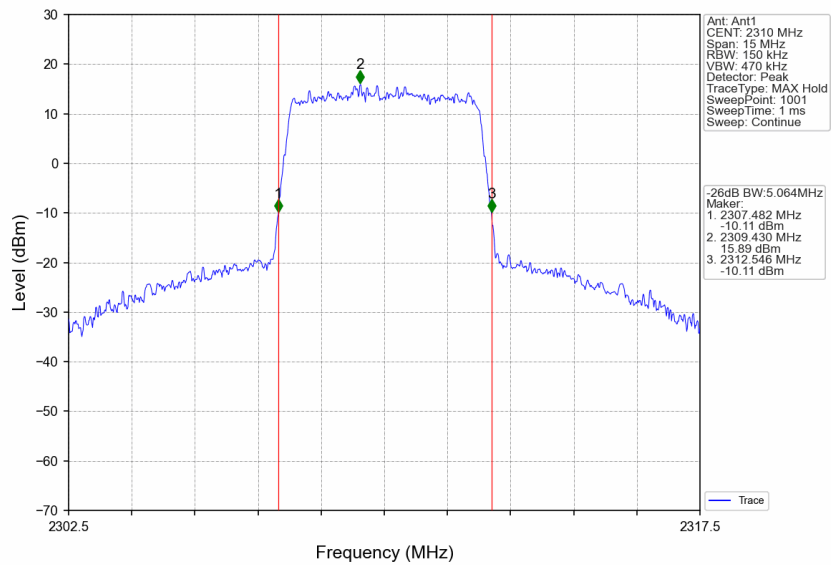
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



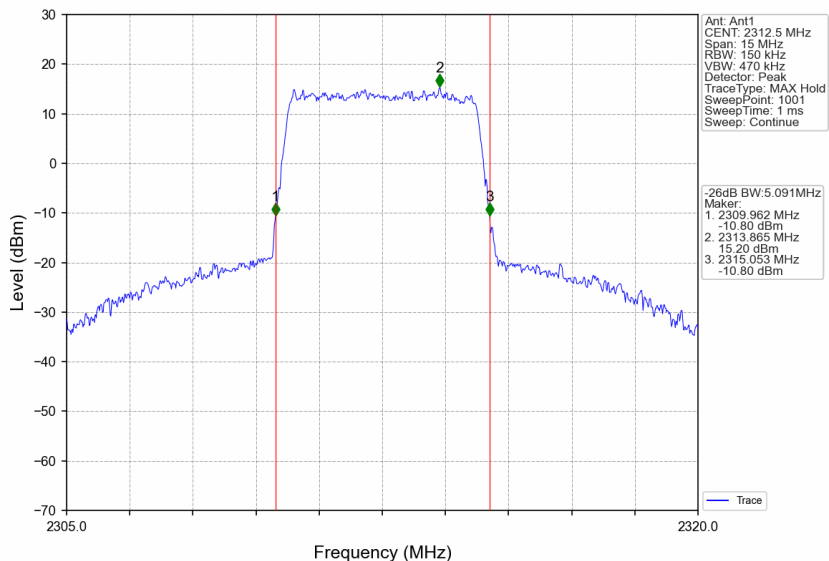
Band30_5MHz_64QAM_LCH_2307.5MHz_RB_25_0_NTNV



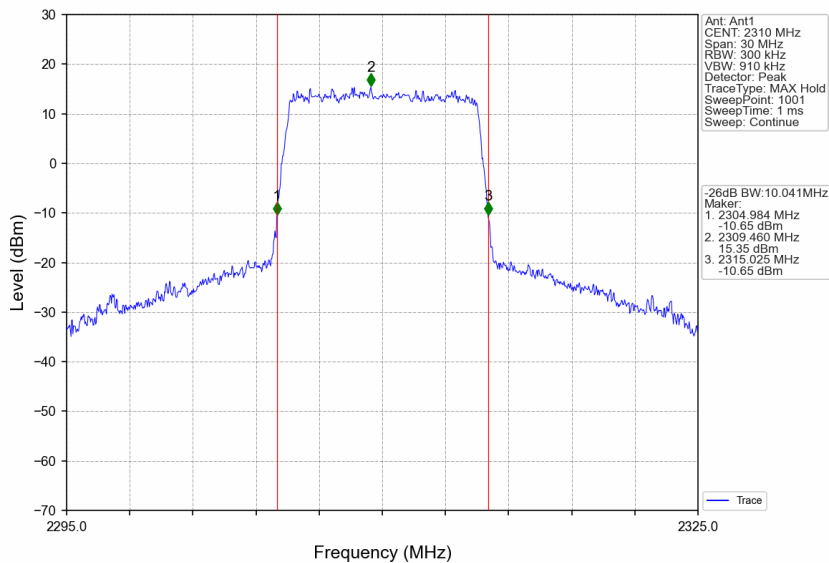
Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



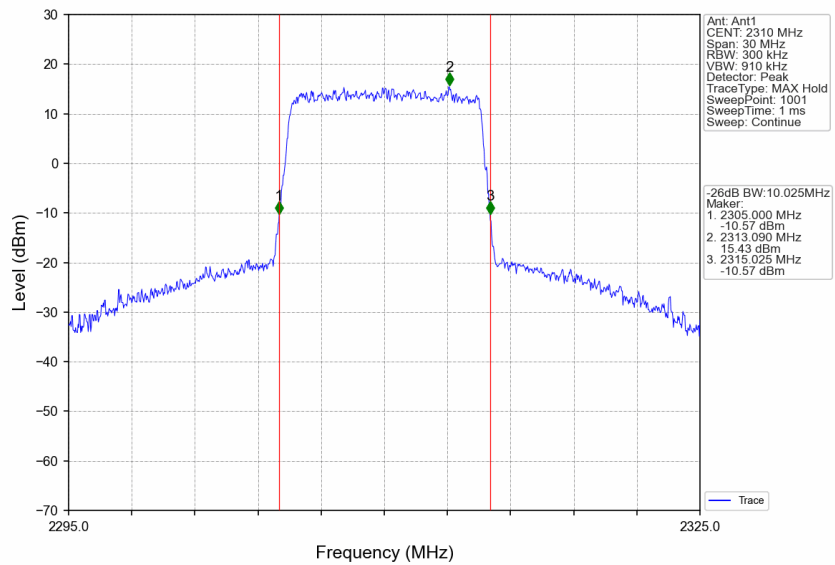
Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV



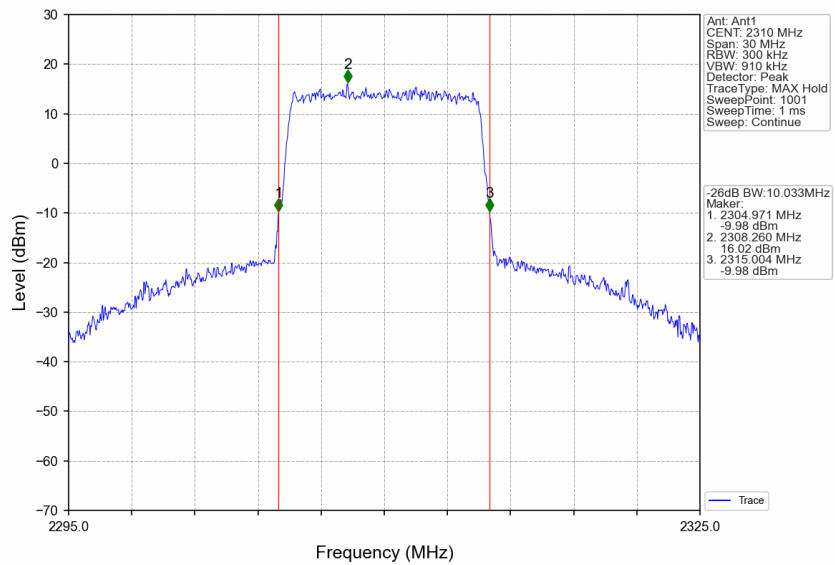
Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



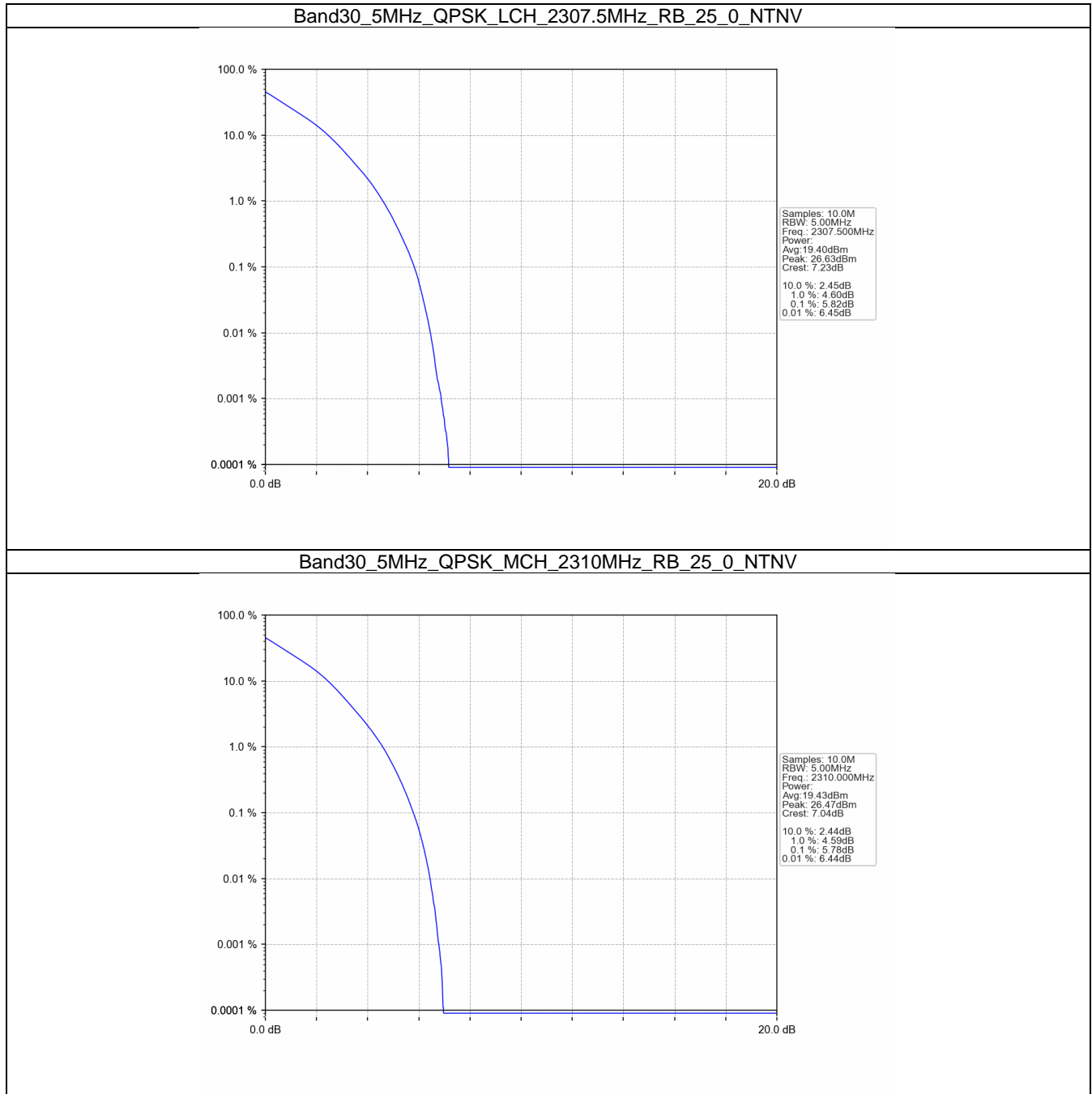
4. Peak-Average Ratio

4.1 B30_5MHz

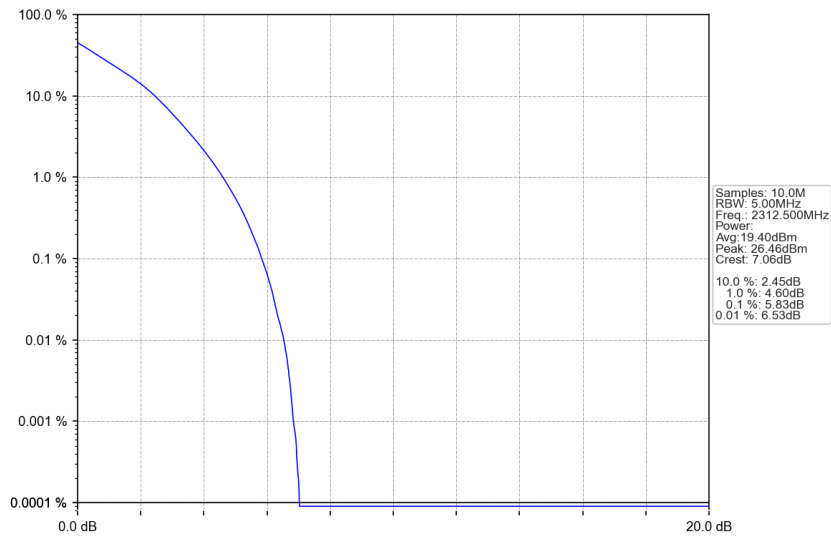
4.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	25	0	5.82	<=13	Pass
	2310	25	0	5.78	<=13	Pass
	2312.5	25	0	5.83	<=13	Pass
16QAM	2307.5	25	0	6.46	<=13	Pass
	2310	25	0	6.52	<=13	Pass
	2312.5	25	0	6.49	<=13	Pass
64QAM	2307.5	25	0	6.73	<=13	Pass
	2310	25	0	6.77	<=13	Pass
	2312.5	25	0	6.73	<=13	Pass

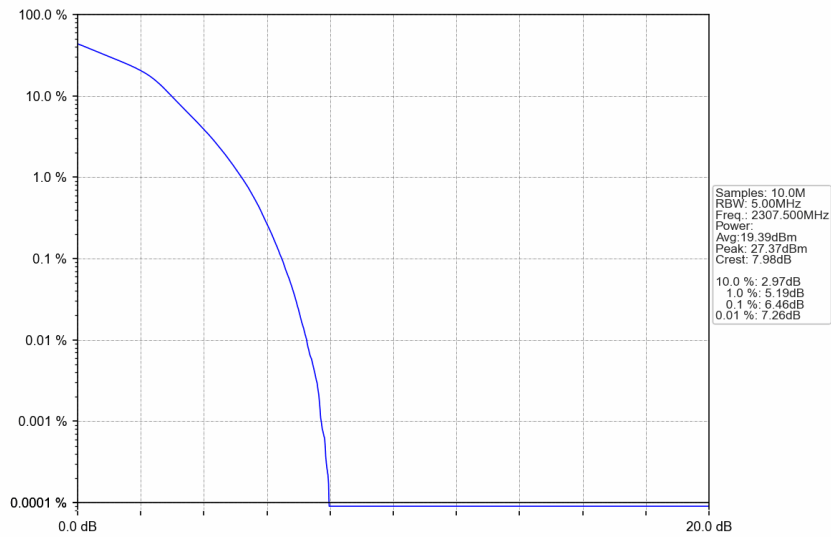
4.1.2 Test Graph



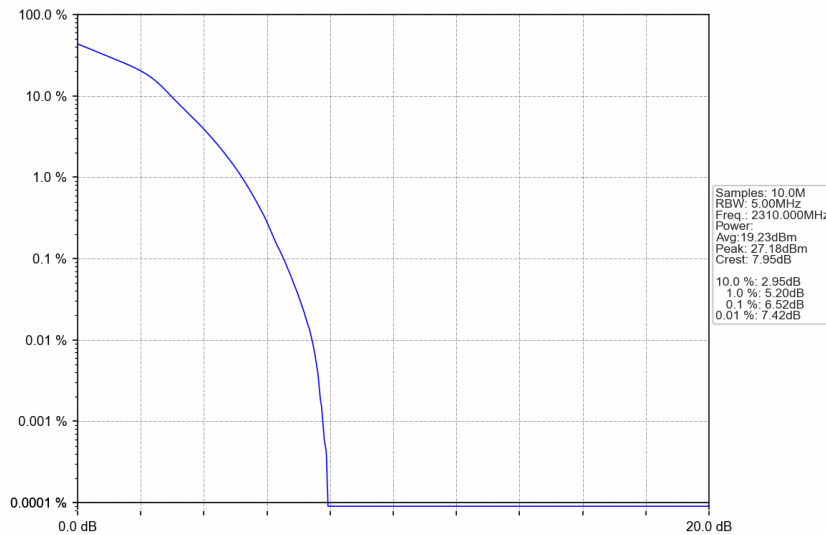
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



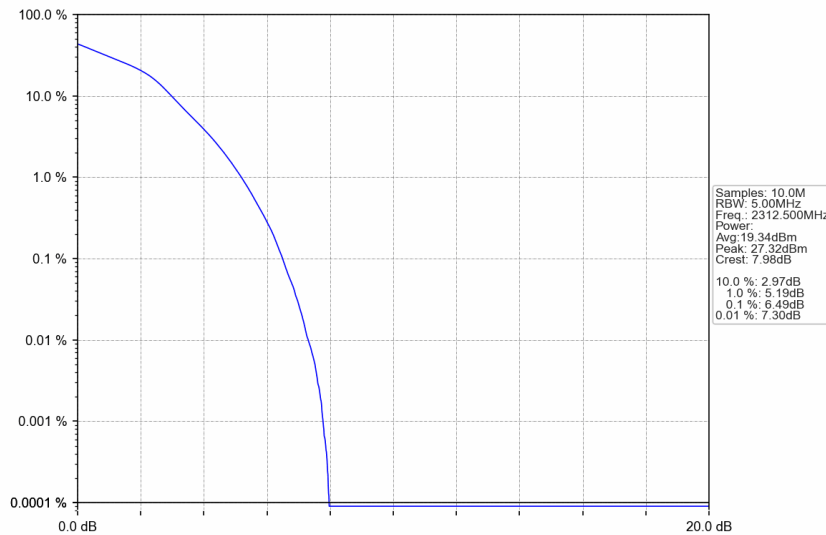
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



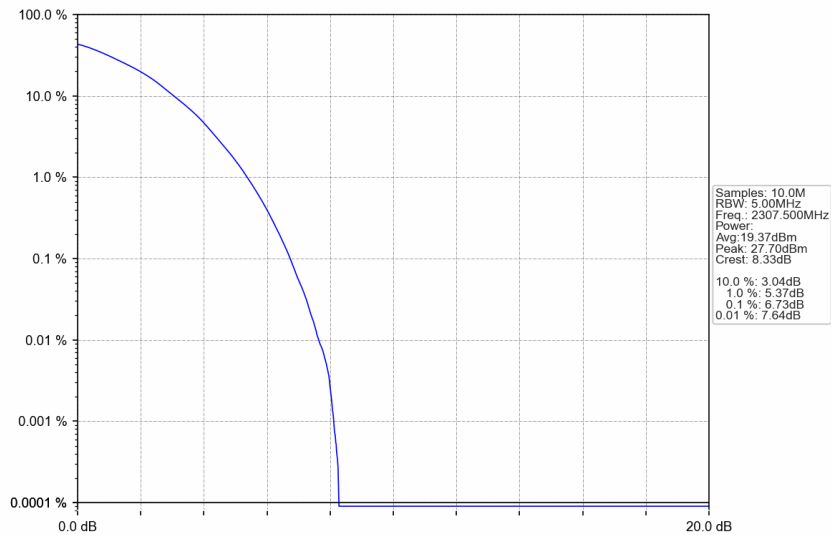
Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



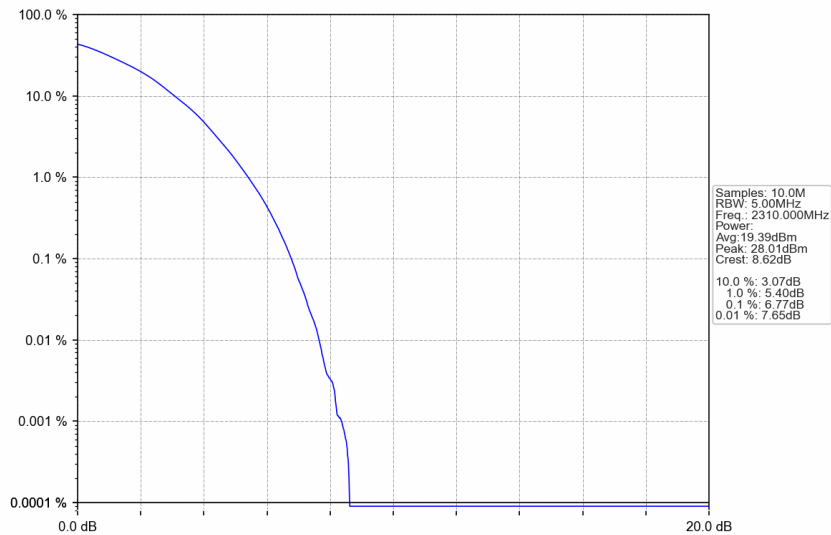
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



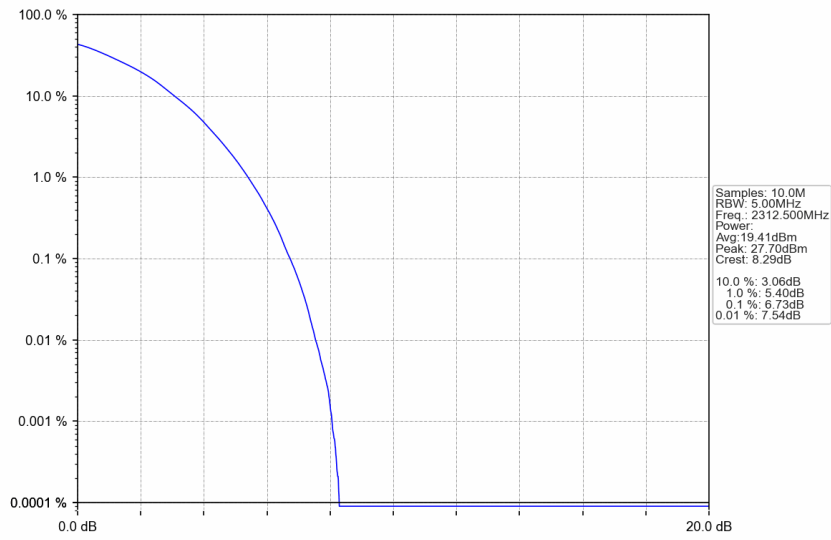
Band30_5MHz_64QAM_LCH_2307.5MHz_RB_25_0_NTNV



Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV

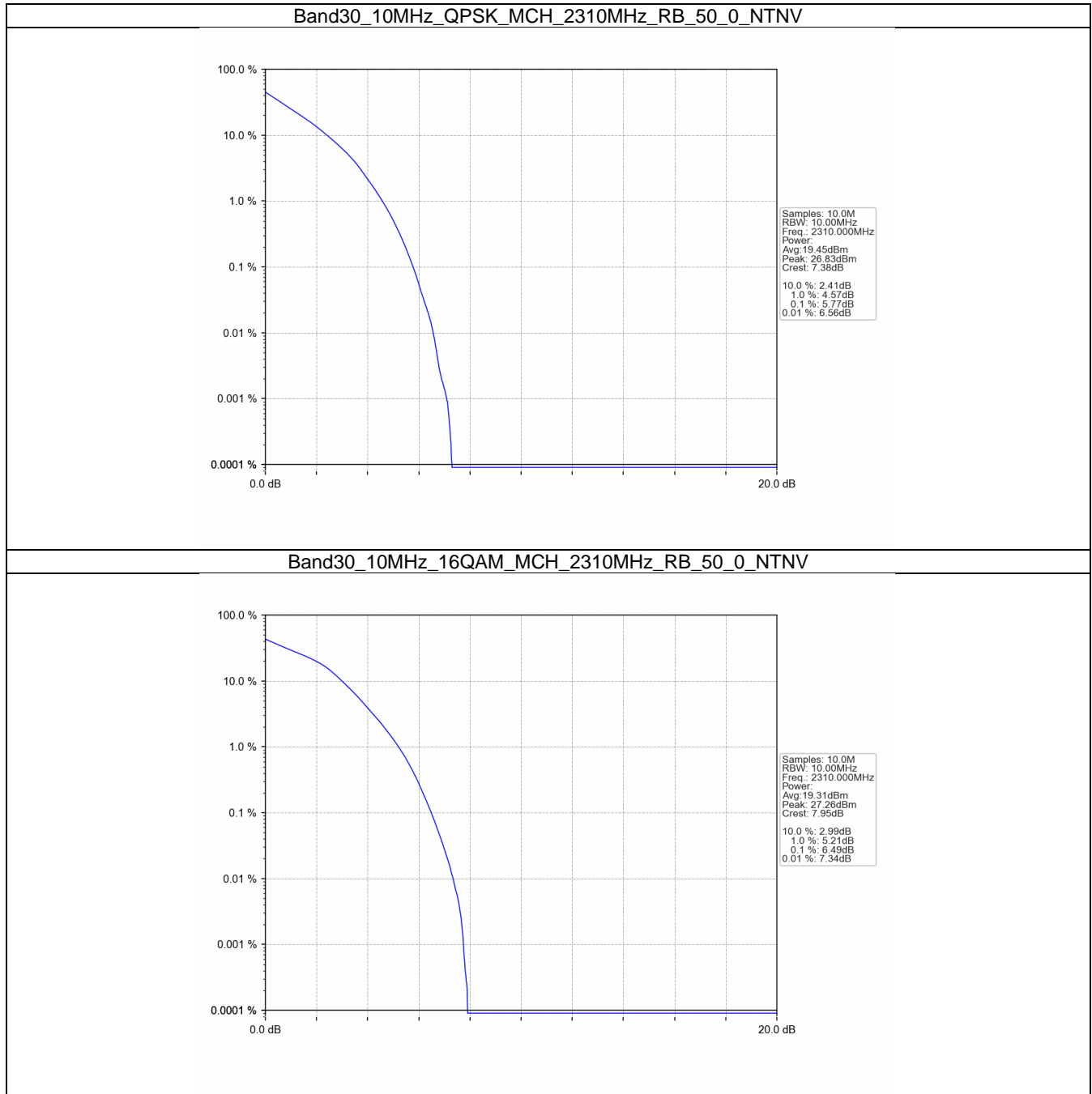


4.2 B30_10MHz

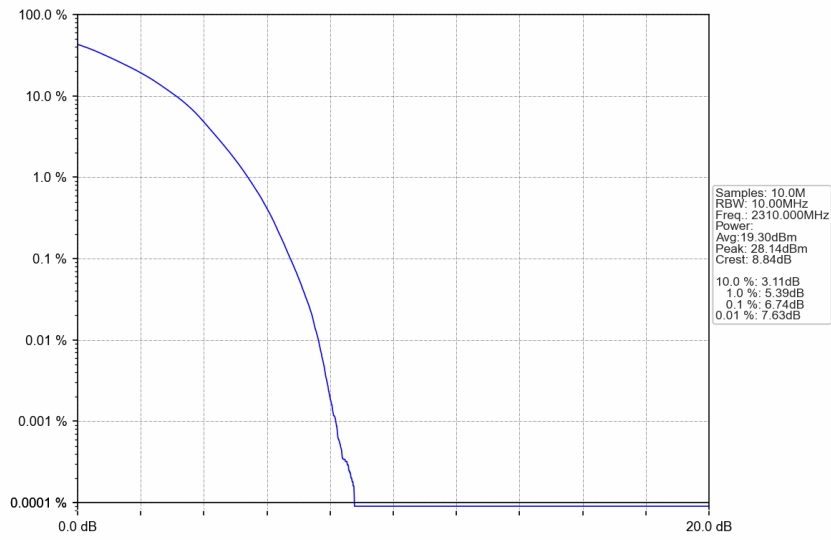
4.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	5.77	<=13	Pass
16QAM	2310	50	0	6.49	<=13	Pass
64QAM	2310	50	0	6.74	<=13	Pass

4.2.2 Test Graph



Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



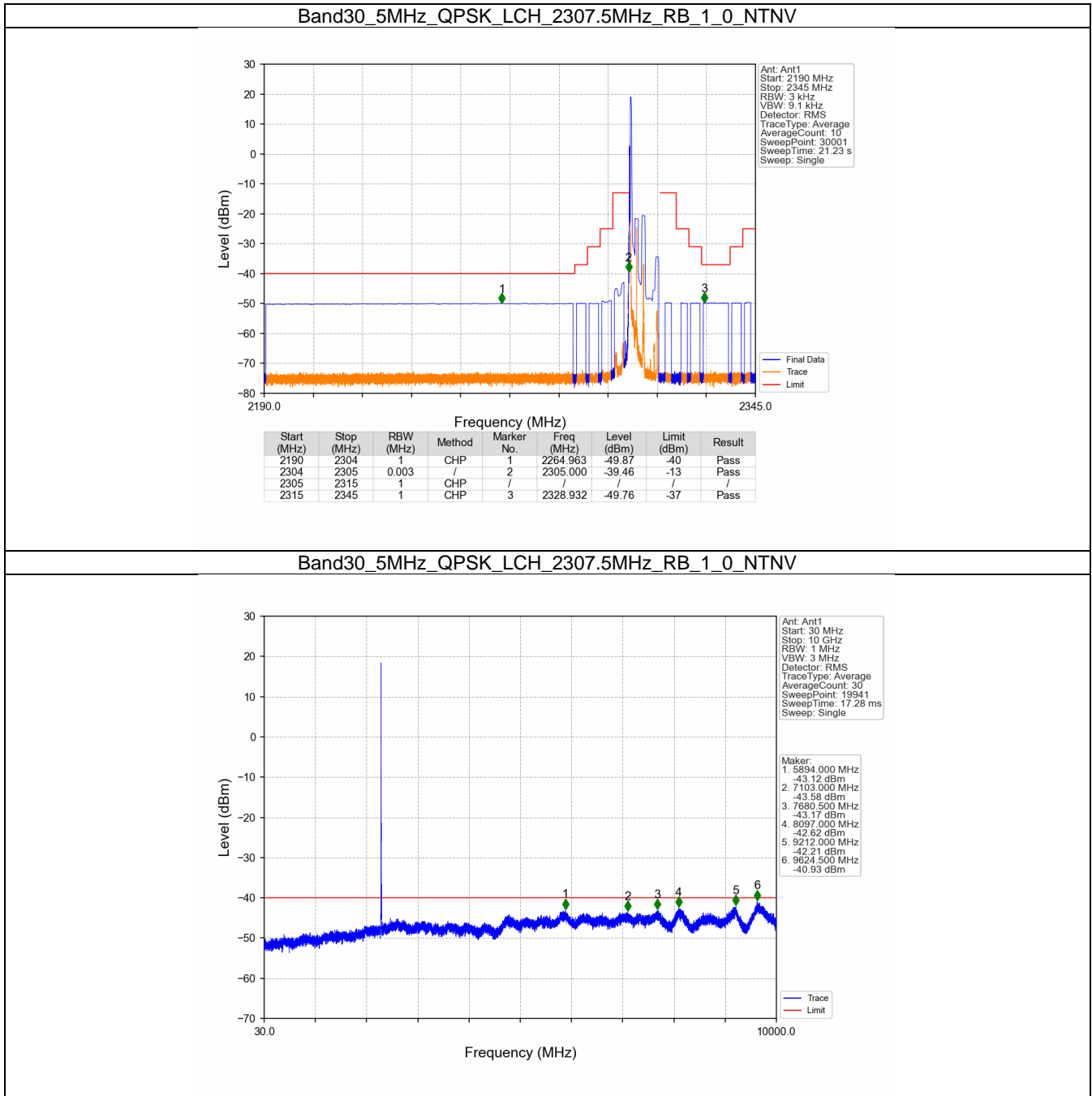
5. Spurious Emission

5.1 B30_5MHz

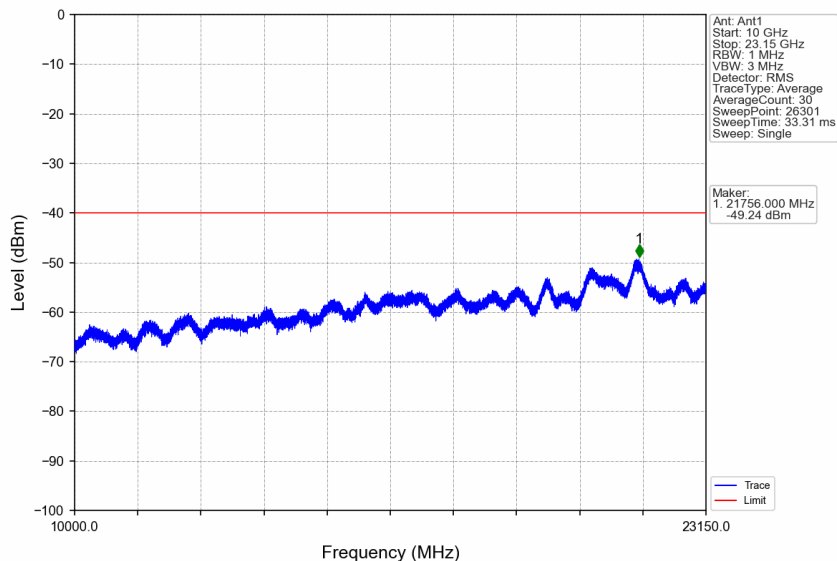
5.1.1 Test Result

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	
	2312.5	2310	1	0	Refer To Test Graph		Pass
			1	0	Refer To Test Graph		Pass
		25	24	Refer To Test Graph		Pass	
			0	Refer To Test Graph		Pass	
16QAM	2307.5	1	0	Refer To Test Graph		Pass	
		25	0	Refer To Test Graph		Pass	
	2312.5	2310	1	0	Refer To Test Graph		Pass
			1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass	
			0	Refer To Test Graph		Pass	
64QAM	2307.5	1	0	Refer To Test Graph		Pass	
		25	0	Refer To Test Graph		Pass	
	2312.5	2310	1	0	Refer To Test Graph		Pass
			1	0	Refer To Test Graph		Pass
		25	24	Refer To Test Graph		Pass	
			0	Refer To Test Graph		Pass	

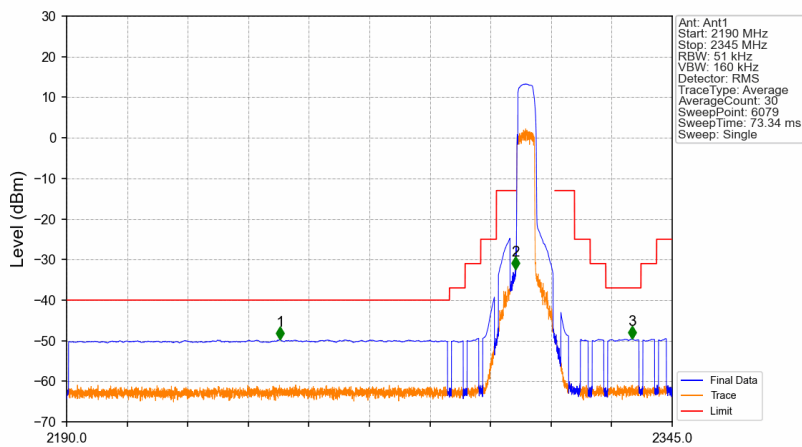
5.1.2 Test Graph



Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_0_NTNV

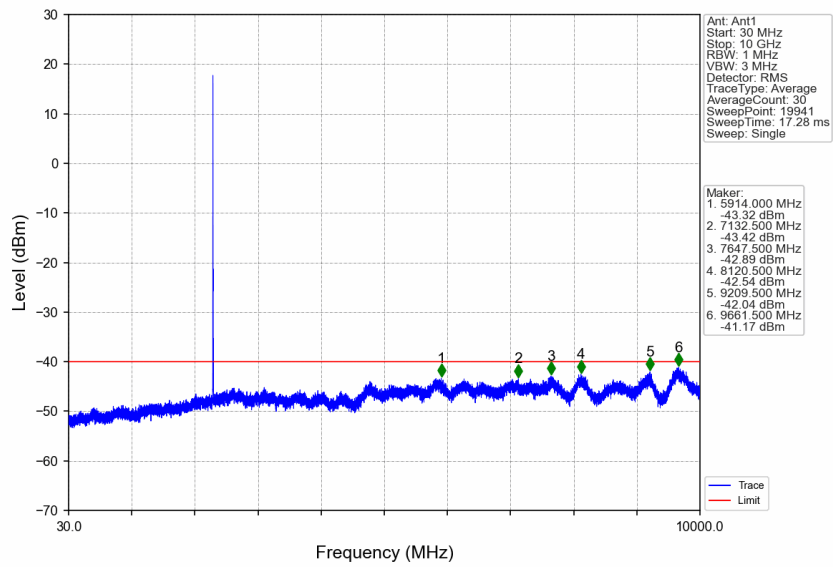


Band30_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV

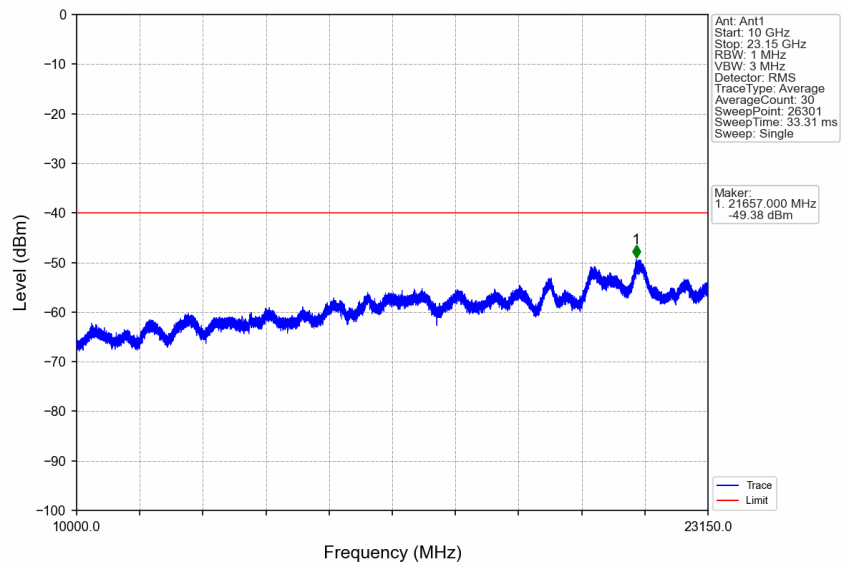


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2244.650	-49.78	-40	Pass
2304	2305	0.051	/	2	2304.886	-32.43	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2345	1	CHP	3	2334.723	-49.62	-37	Pass

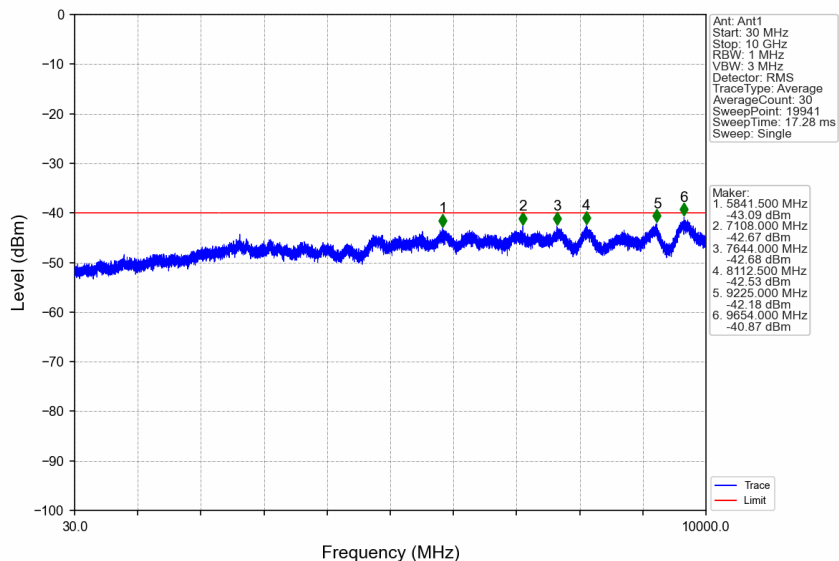
Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



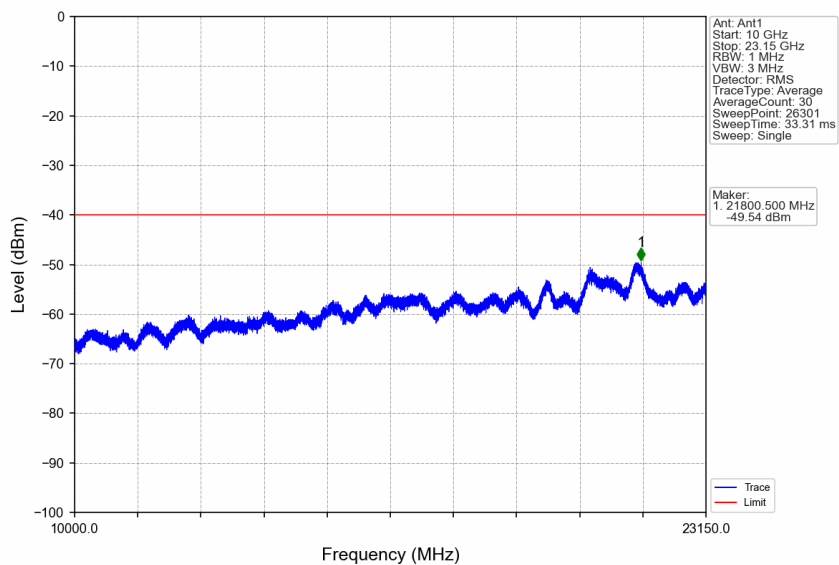
Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



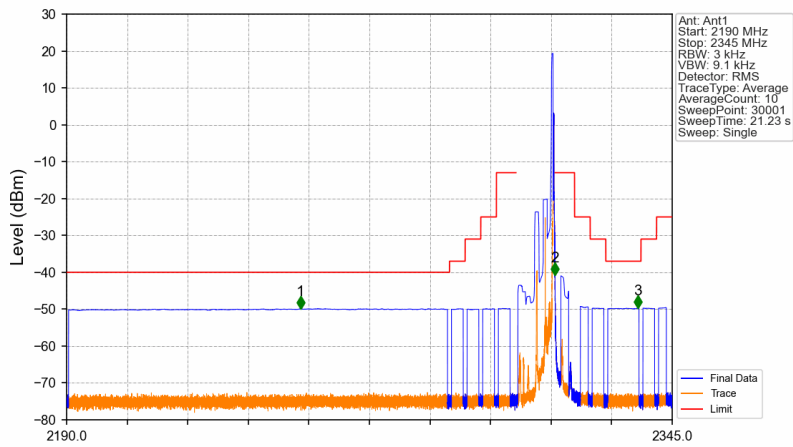
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV

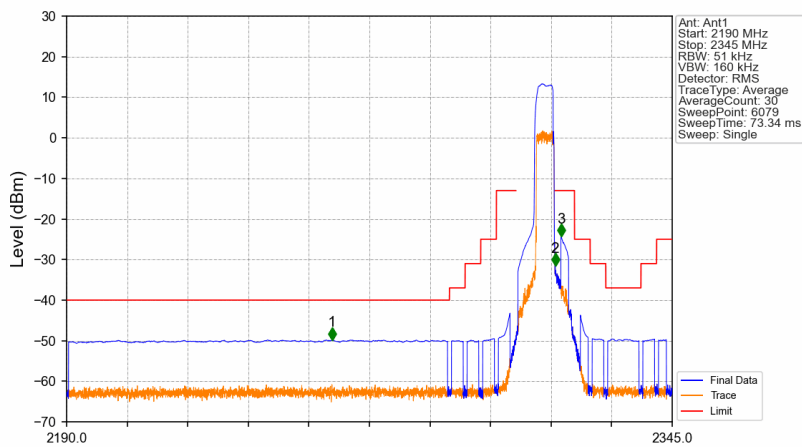


Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_24_NTNV



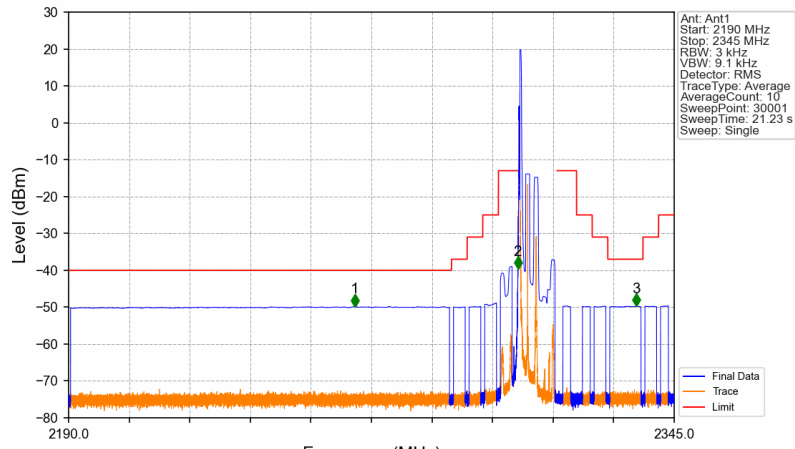
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2249.887	-49.89	-40	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	2	2315.002	-40.88	-13	Pass
2316	2345	1	CHP	3	2336.191	-49.75	-37	Pass

Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



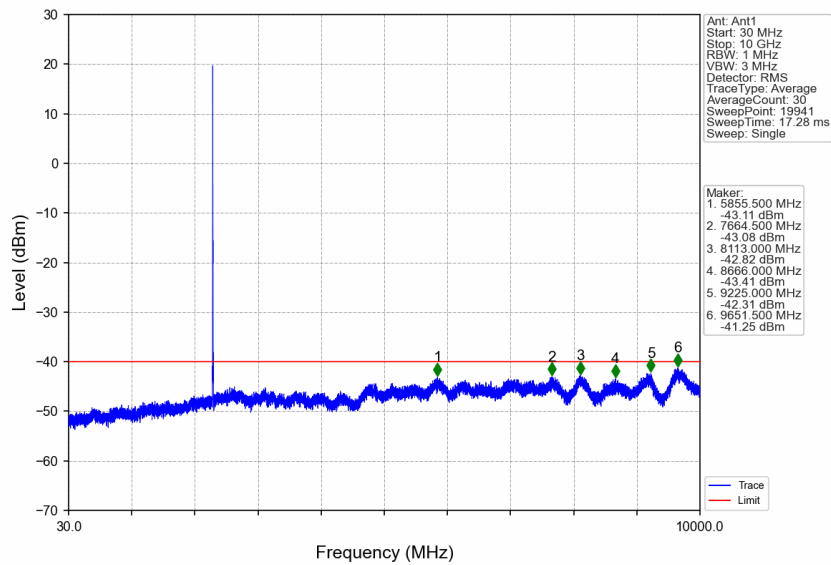
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2257.911	-49.82	-40	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.051	/	2	2315.061	-31.55	-13	Pass
2316	2345	1	CHP	3	2316.514	-24.31	-13	Pass

Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV

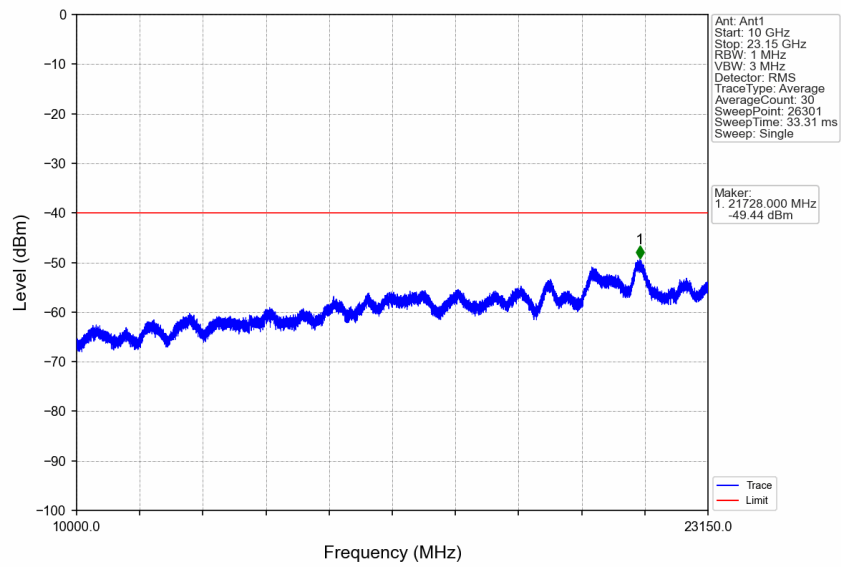


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2263.294	-49.84	-40	Pass
2304	2305	/	/	2	2304.994	-39.60	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2345	1	CHP	3	2335.276	-49.76	-37	Pass

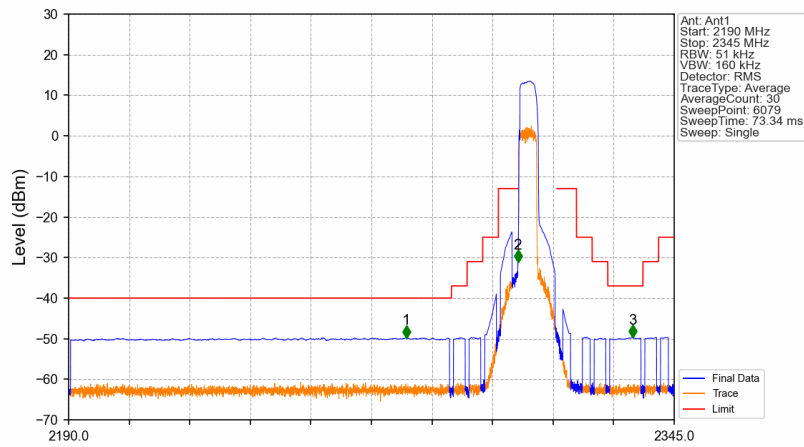
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV



Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV

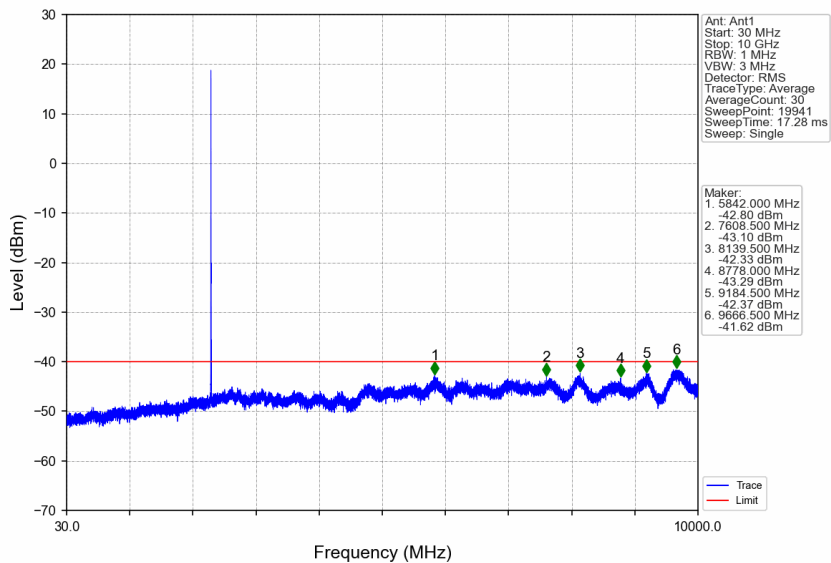


Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV

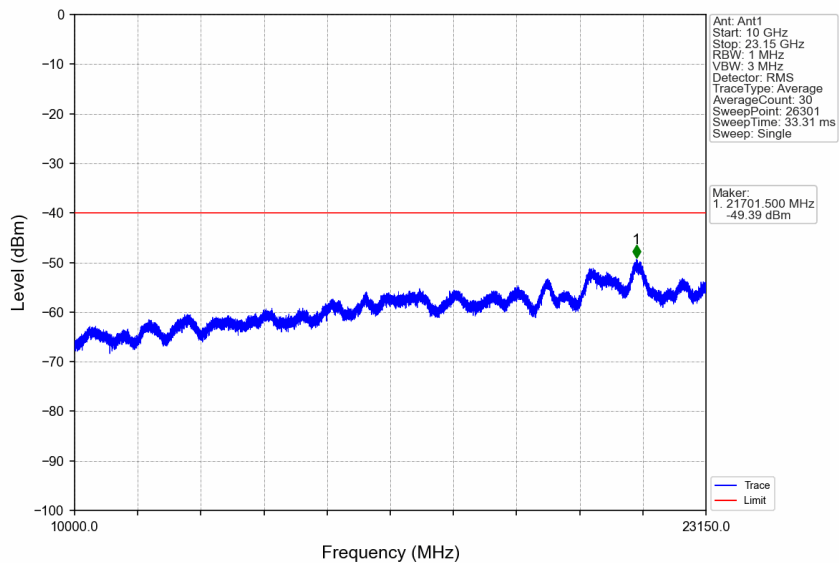


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2276.400	-49.82	-40	Pass
2304	2305	0.051	/	2	2304.988	-31.22	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2345	1	CHP	3	2334.315	-49.70	-37	Pass

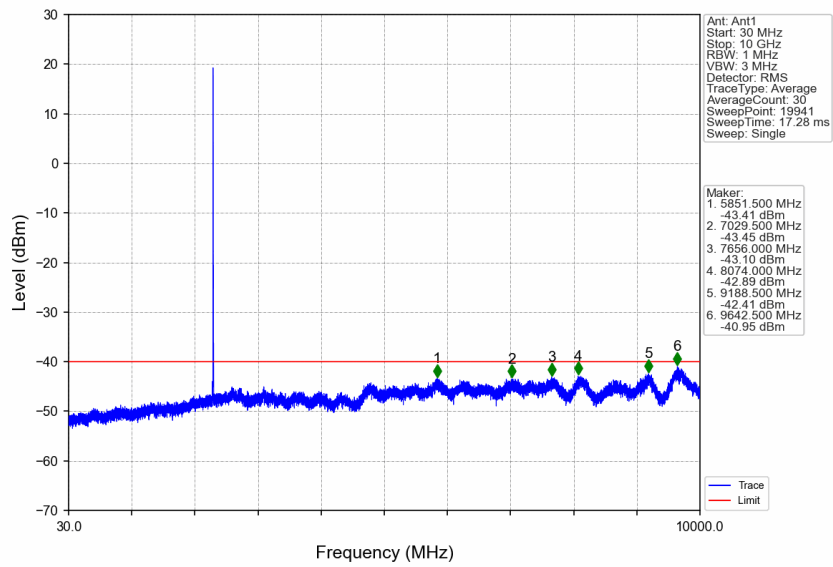
Band30_5MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV



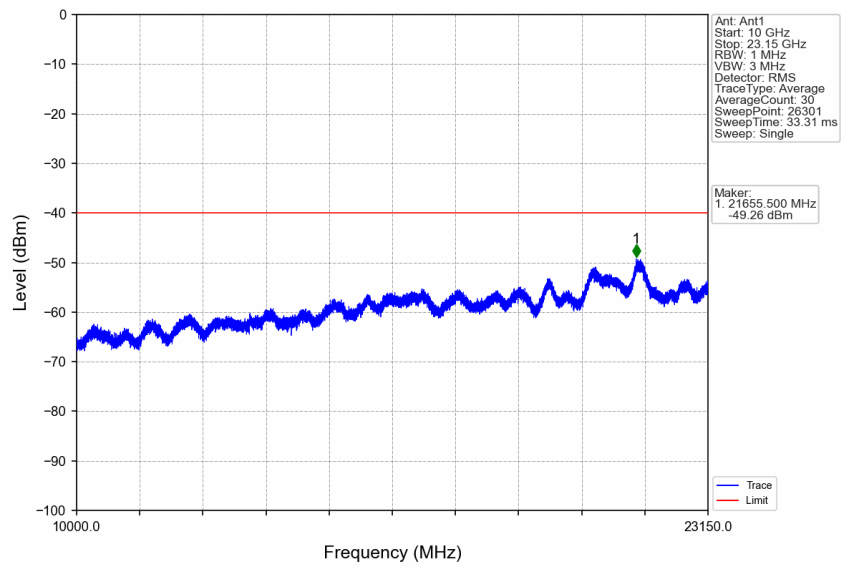
Band30_5MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV



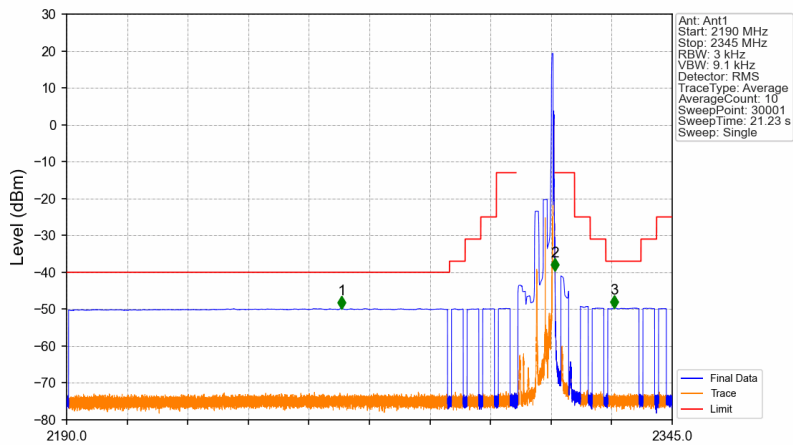
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_1_0_NTNV



Band30_5MHz_16QAM_HCH_2312.5MHz_RB_1_0_NTNV

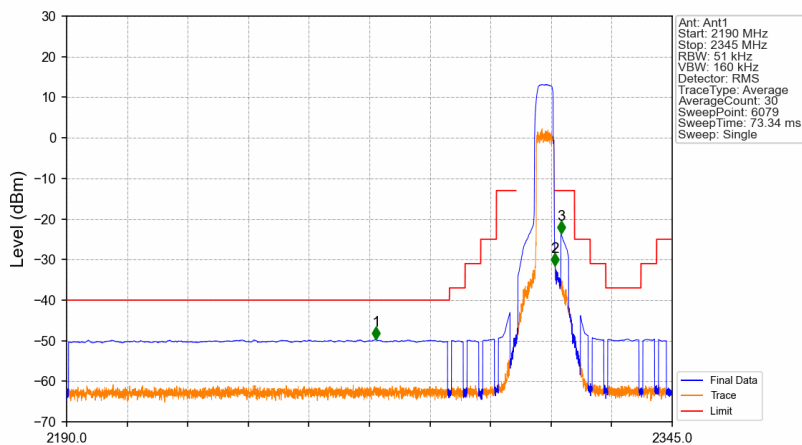


Band30_5MHz_16QAM_HCH_2312.5MHz_RB_1_24_NTNV



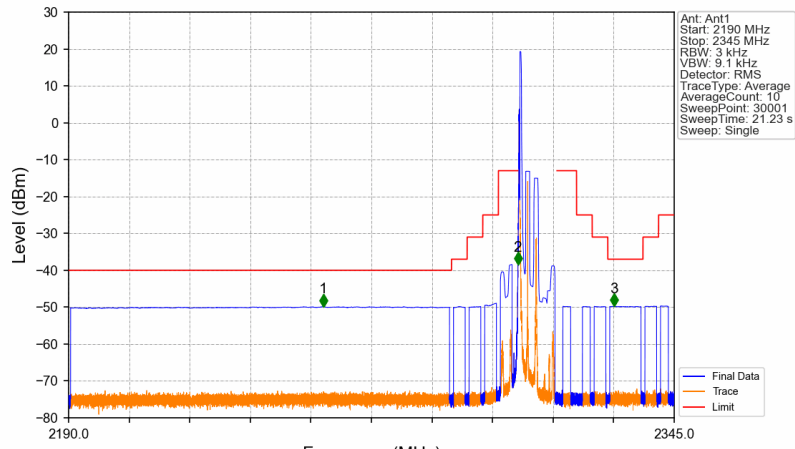
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2260.432	-49.85	-40	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	2	2315.002	-39.55	-13	Pass
2316	2345	1	CHP	3	2330.244	-49.65	-37	Pass

Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



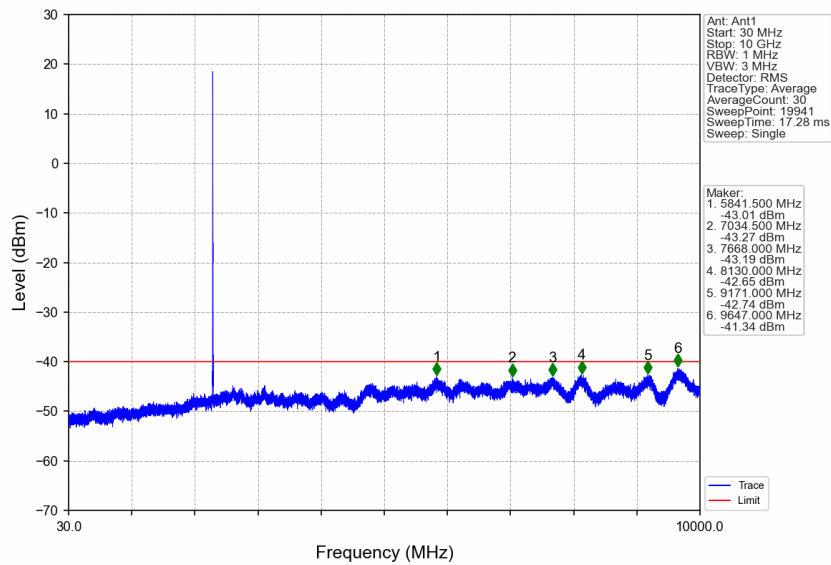
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2269.234	-49.77	-40	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.051	/	2	2315.035	-31.56	-13	Pass
2316	2345	1	CHP	3	2316.514	-23.68	-13	Pass

Band30_5MHz_64QAM_LCH_2307.5MHz_RB_1_0_NTNV

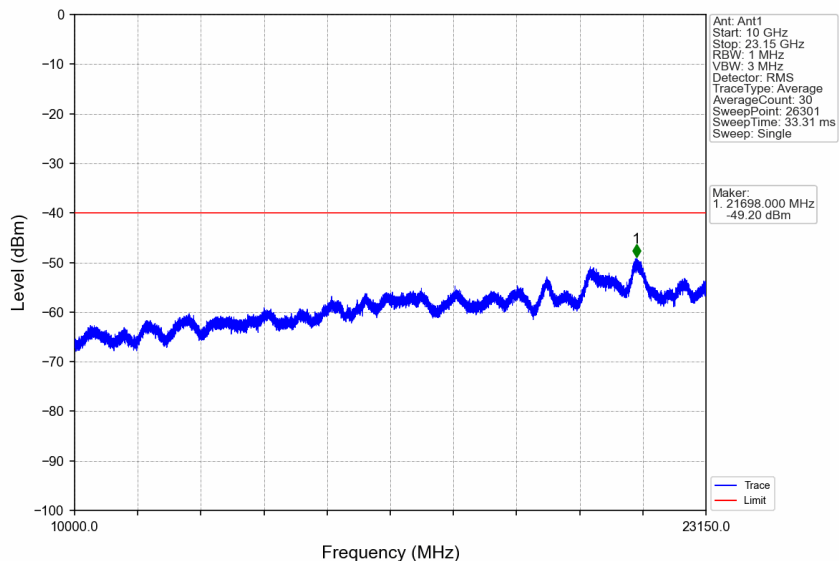


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2255.224	-49.86	-40	Pass
2304	2305	/	/	2	2305.000	-38.57	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2345	1	CHP	3	2329.691	-49.78	-37	Pass

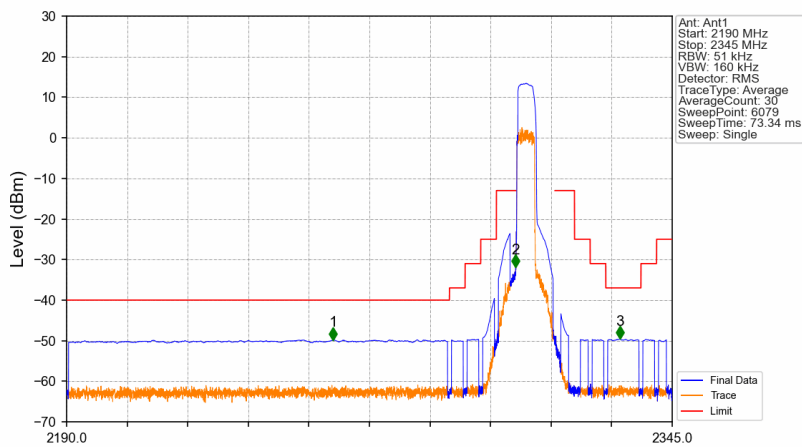
Band30_5MHz_64QAM_LCH_2307.5MHz_RB_1_0_NTNV



Band30_5MHz_64QAM_LCH_2307.5MHz_RB_1_0_NTNV

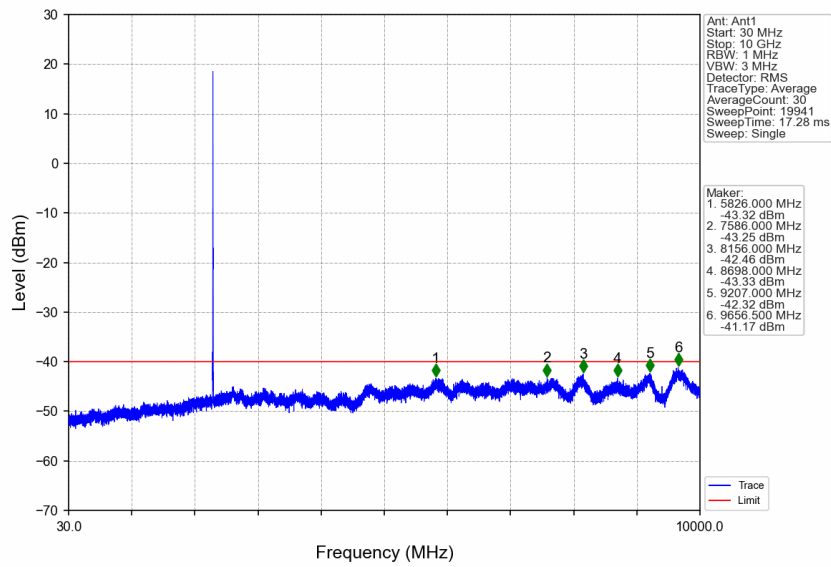


Band30_5MHz_64QAM_LCH_2307.5MHz_RB_25_0_NTNV

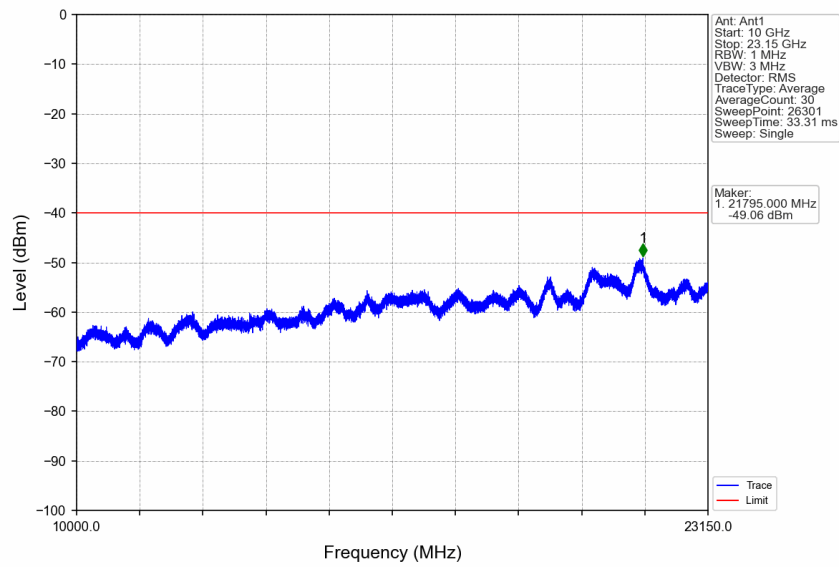


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2258.217	-49.81	-40	Pass
2304	2305	0.051	/	2	2304.937	-31.87	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2345	1	CHP	3	2331.535	-49.59	-37	Pass

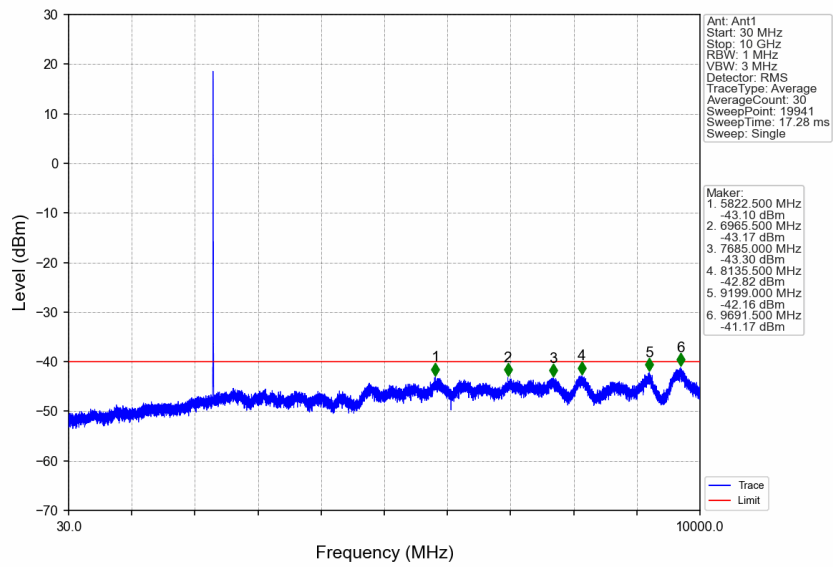
Band30_5MHz_64QAM_MCH_2310MHz_RB_1_0_NTNV



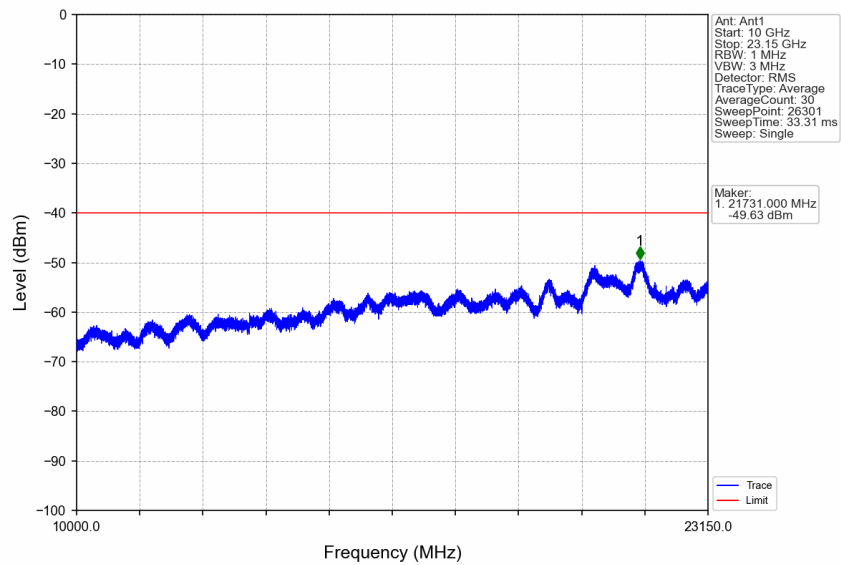
Band30_5MHz_64QAM_MCH_2310MHz_RB_1_0_NTNV



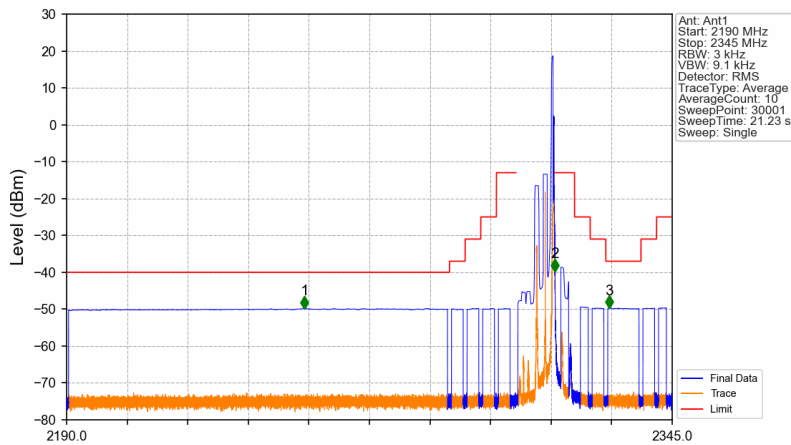
Band30_5MHz_64QAM_HCH_2312.5MHz_RB_1_0_NTNV



Band30_5MHz_64QAM_HCH_2312.5MHz_RB_1_0_NTNV

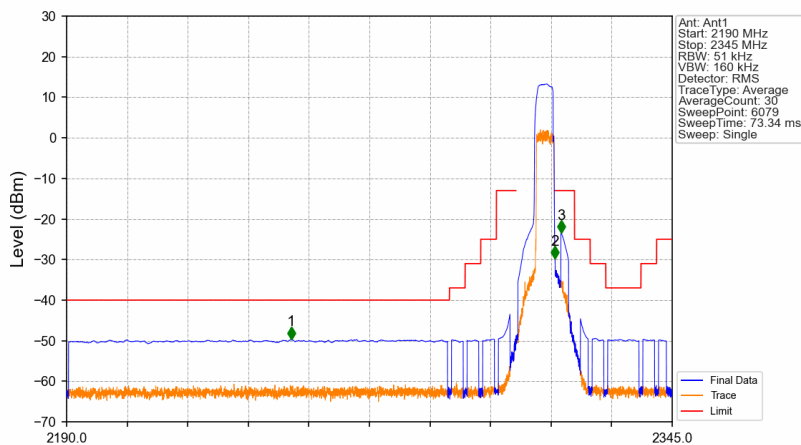


Band30_5MHz_64QAM_HCH_2312.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2250.863	-49.83	-40	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	2	2315.002	-39.77	-13	Pass
2316	2345	1	CHP	3	2328.942	-49.72	-37	Pass

Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV



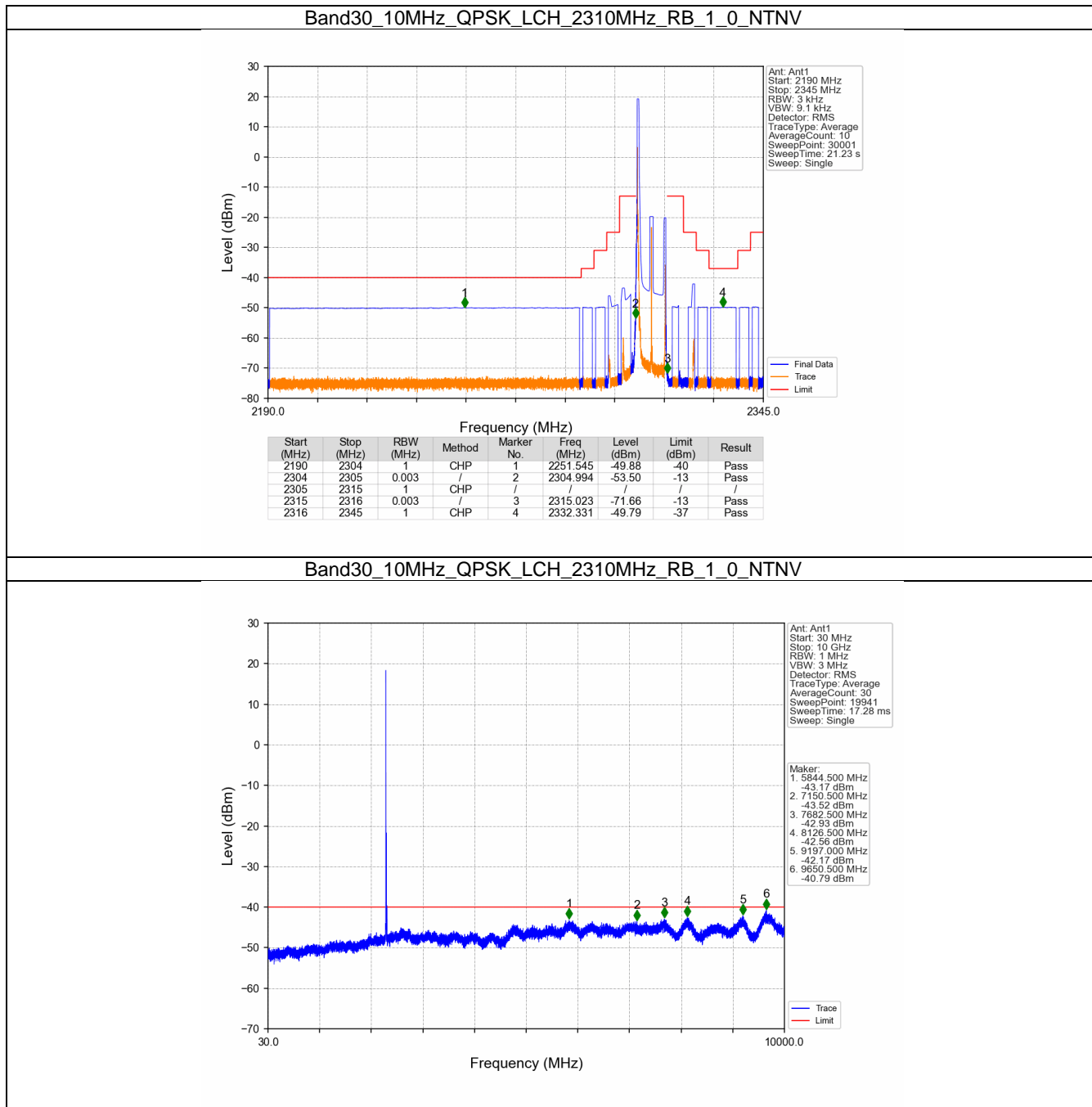
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2247.532	-49.64	-40	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.051	/	2	2315.010	-29.85	-13	Pass
2316	2345	1	CHP	3	2316.514	-23.44	-13	Pass

5.2 B30_10MHz

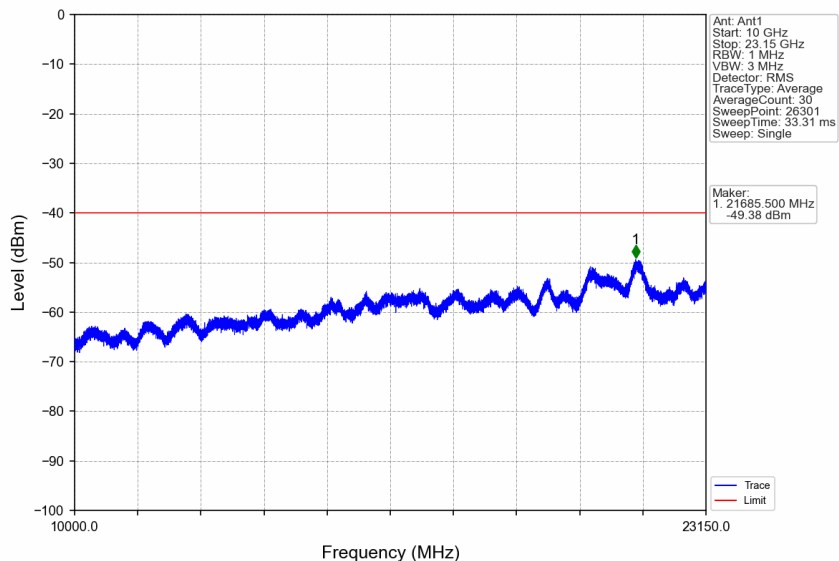
5.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTV						
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
64QAM	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

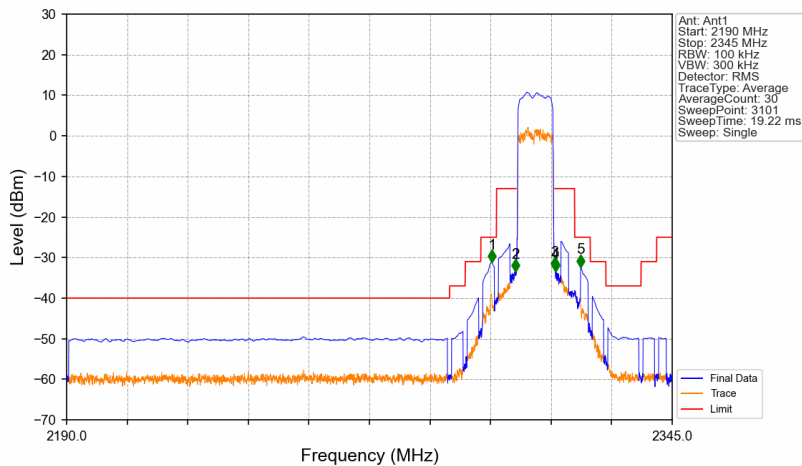
5.2.2 Test Graph



Band30_10MHz_QPSK_LCH_2310MHz_RB_1_0_NTNV

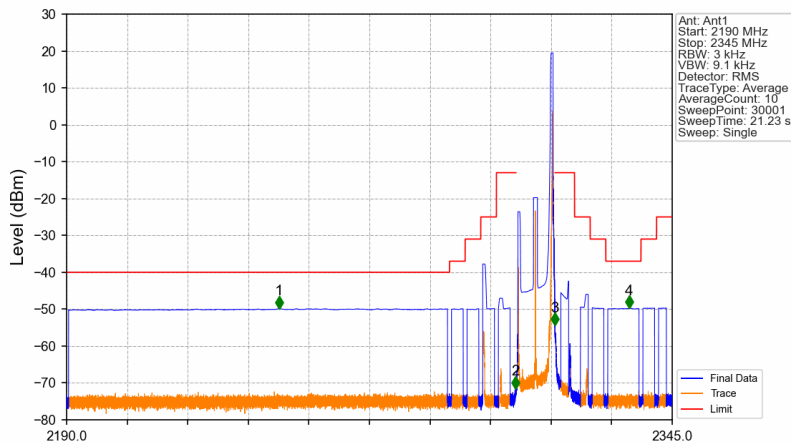


Band30_10MHz_QPSK_LCH_2310MHz_RB_50_0_NTNV



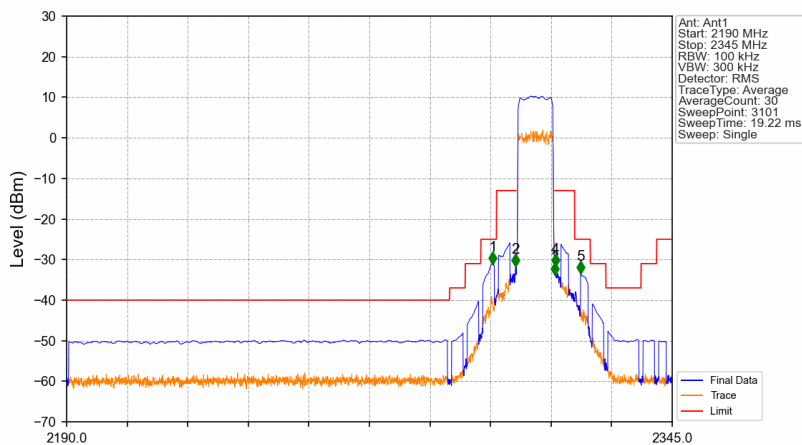
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2298.850	-31.24	-25	Pass
2304	2305	0.1	/	2	2304.950	-33.44	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-33.04	-13	Pass
2315	2316	0.1	/	4	2315.050	-33.56	-13	Pass
2316	2345	1	CHP	5	2321.550	-32.34	-25	Pass

Band30_10MHz_QPSK_HCH_2310MHz_RB_1_49_NTV



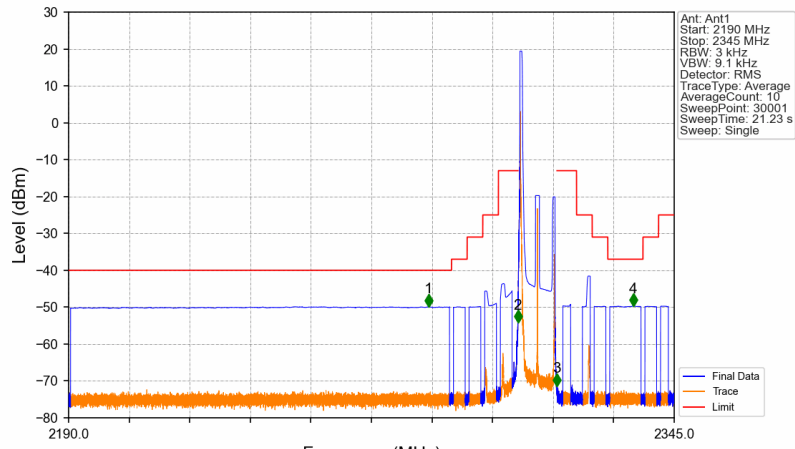
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2244.421	-49.86	-40	Pass
2304	2305	0.003	/	2	2304.927	-71.57	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.018	-54.48	-13	Pass
2316	2345	1	CHP	4	2333.964	-49.78	-37	Pass

Band30_10MHz_QPSK_HCH_2310MHz_RB_50_0_NTV

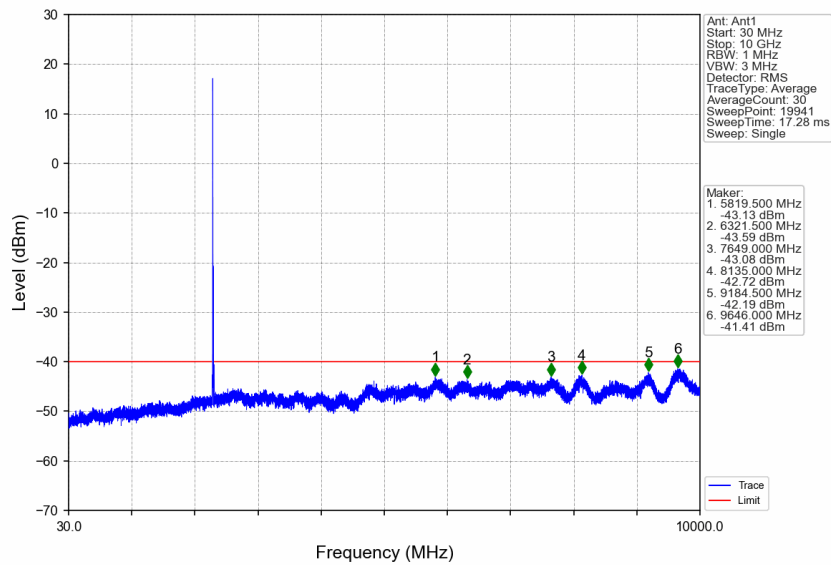


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2299.050	-31.17	-25	Pass
2304	2305	0.1	/	2	2304.950	-31.72	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-33.81	-13	Pass
2315	2316	0.1	/	4	2315.100	-31.78	-13	Pass
2316	2345	1	CHP	5	2321.550	-33.54	-25	Pass

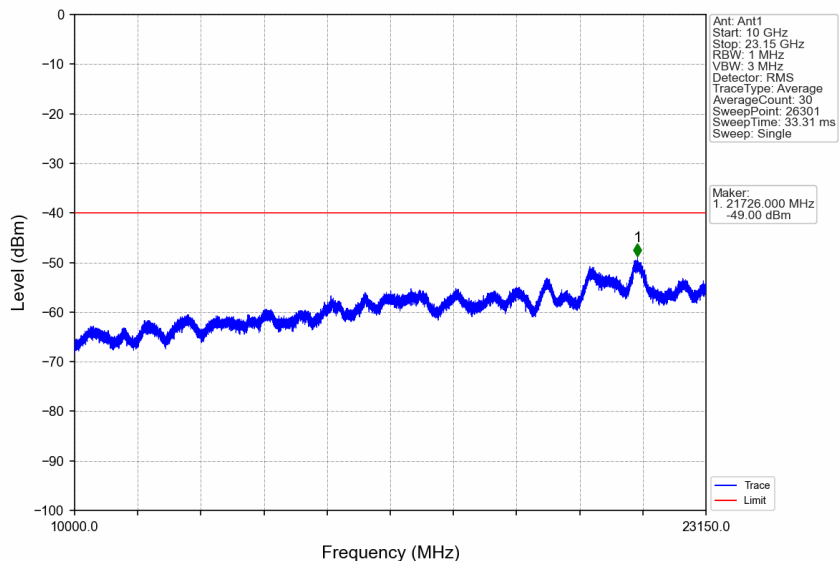
Band30_10MHz_16QAM_LCH_2310MHz_RB_1_0_NTNV



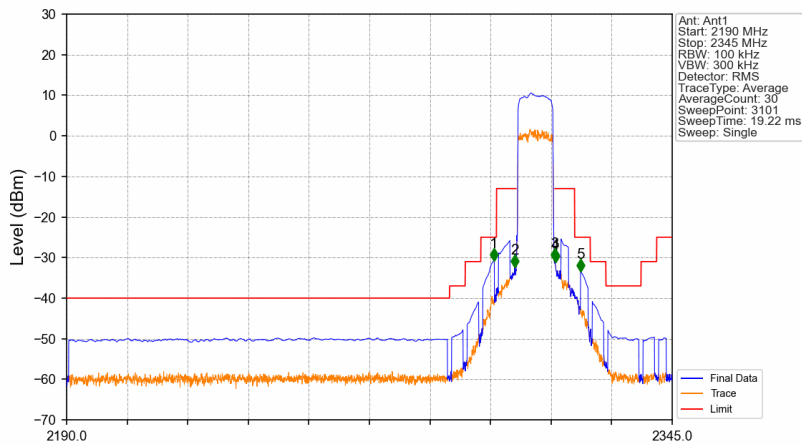
Band30_10MHz_16QAM_LCH_2310MHz_RB_1_0_NTNV



Band30_10MHz_16QAM_LCH_2310MHz_RB_1_0_NTNV

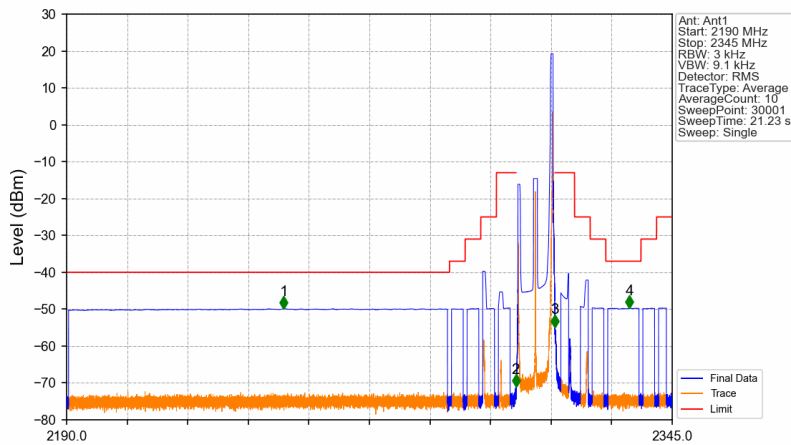


Band30_10MHz_16QAM_LCH_2310MHz_RB_50_0_NTNV



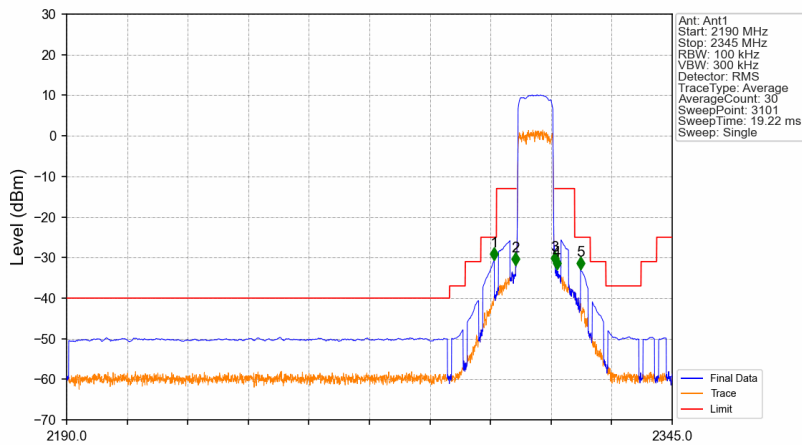
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2299.300	-30.89	-25	Pass
2304	2305	0.1	/	2	2304.700	-32.51	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-30.88	-13	Pass
2315	2316	0.1	/	4	2315.050	-31.15	-13	Pass
2316	2345	1	CHP	5	2321.550	-33.53	-25	Pass

Band30_10MHz_16QAM_HCH_2310MHz_RB_1_49_NTNV



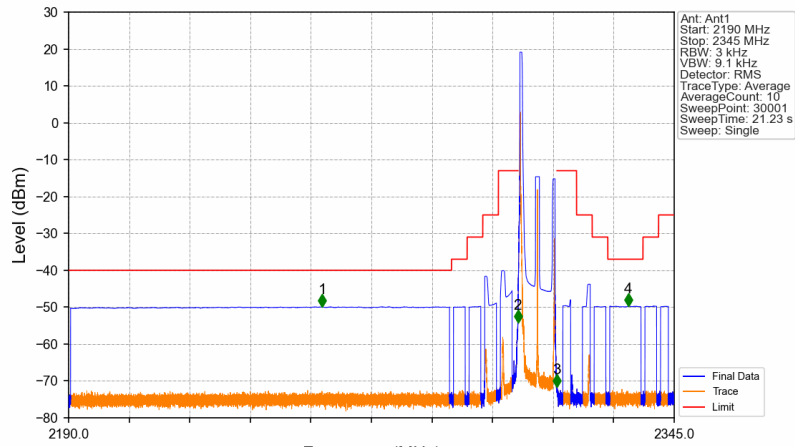
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2245.593	-49.88	-40	Pass
2304	2305	0.003	/	2	2304.984	-71.03	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.002	-54.88	-13	Pass
2316	2345	1	CHP	4	2334.062	-49.72	-37	Pass

Band30_10MHz_16QAM_HCH_2310MHz_RB_50_0_NTNV

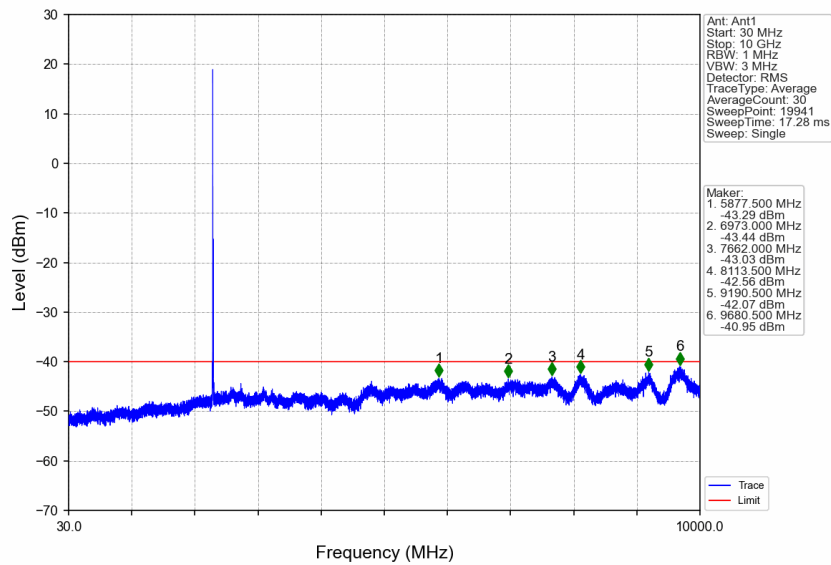


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2299.450	-30.68	-25	Pass
2304	2305	0.1	/	2	2304.950	-31.86	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-31.79	-13	Pass
2315	2316	0.1	/	4	2315.450	-32.91	-13	Pass
2316	2345	1	CHP	5	2321.550	-32.97	-25	Pass

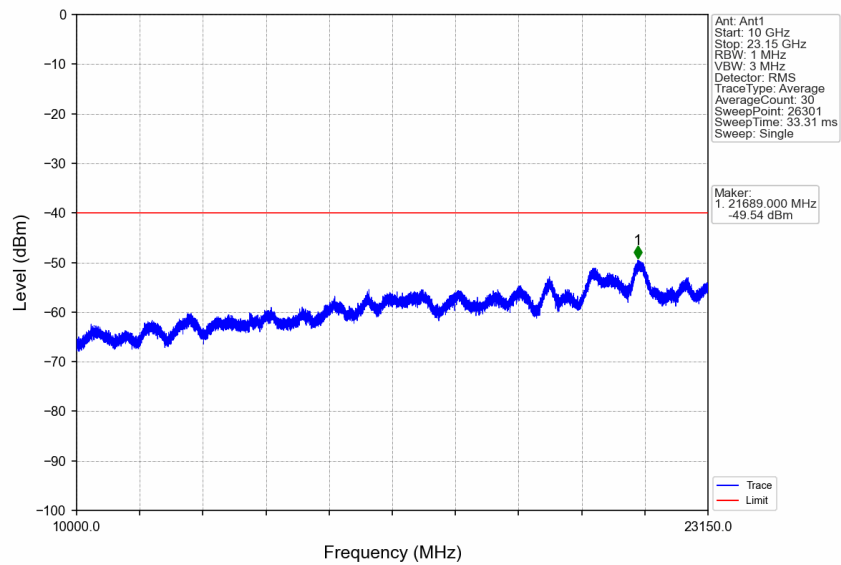
Band30_10MHz_64QAM_LCH_2310MHz_RB_1_0_NTNV



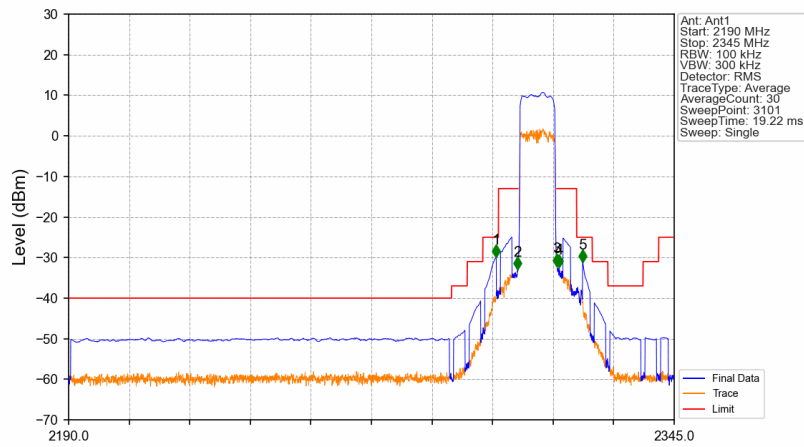
Band30_10MHz_64QAM_LCH_2310MHz_RB_1_0_NTNV



Band30_10MHz_64QAM_LCH_2310MHz_RB_1_0_NTNV

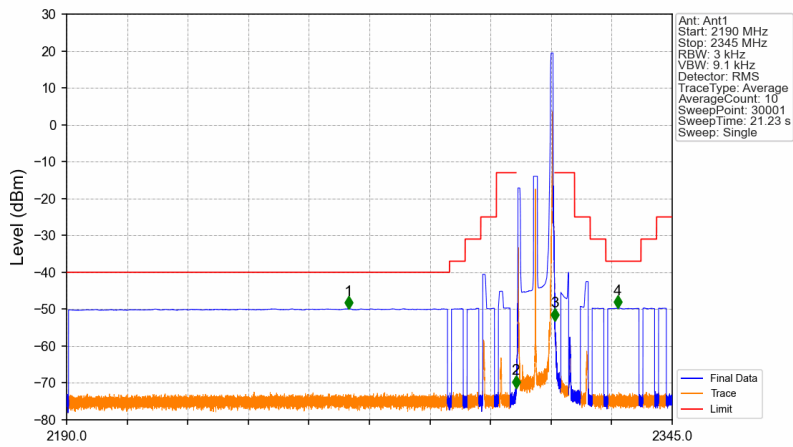


Band30_10MHz_64QAM_LCH_2310MHz_RB_50_0_NTNV



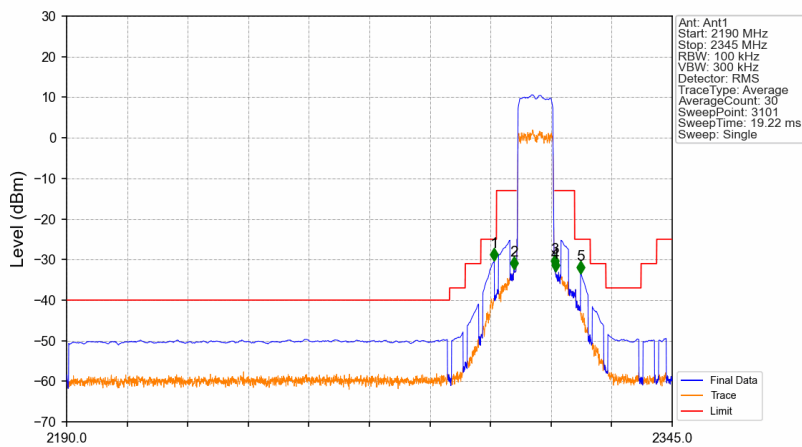
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2299.450	-30.00	-25	Pass
2304	2305	0.1	/	2	2304.950	-32.91	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-32.17	-13	Pass
2315	2316	0.1	/	4	2315.550	-32.49	-13	Pass
2316	2345	1	CHP	5	2321.550	-31.16	-25	Pass

Band30_10MHz_64QAM_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	2262.132	-49.88	-40	Pass
2304	2305	0.003	/	2	2304.989	-71.40	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.002	-53.13	-13	Pass
2316	2345	1	CHP	4	2331.060	-49.72	-37	Pass

Band30_10MHz_64QAM_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	2299.450	-30.38	-25	Pass
2304	2305	0.1	/	2	2304.500	-32.39	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-31.84	-13	Pass
2315	2316	0.1	/	4	2315.050	-32.92	-13	Pass
2316	2345	1	CHP	5	2321.550	-33.45	-25	Pass