

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B30_5MHz_EIRP

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	22.80	-1.44	21.36	<=23.98	Pass
			13	22.68	-1.44	21.24	<=23.98	Pass
			24	22.35	-1.44	20.91	<=23.98	Pass
		12	0	21.51	-1.44	20.07	<=23.98	Pass
			6	21.62	-1.44	20.18	<=23.98	Pass
			13	21.62	-1.44	20.18	<=23.98	Pass
		25	0	21.65	-1.44	20.21	<=23.98	Pass
	2310	1	0	22.68	-1.44	21.24	<=23.98	Pass
			13	22.74	-1.44	21.30	<=23.98	Pass
			24	22.54	-1.44	21.10	<=23.98	Pass
		12	0	21.63	-1.44	20.19	<=23.98	Pass
			6	21.68	-1.44	20.24	<=23.98	Pass
			13	21.68	-1.44	20.24	<=23.98	Pass
		25	0	21.74	-1.44	20.30	<=23.98	Pass
	2312.5	1	0	22.26	-1.44	20.82	<=23.98	Pass
			13	22.30	-1.44	20.86	<=23.98	Pass
			24	22.42	-1.44	20.98	<=23.98	Pass
		12	0	21.64	-1.44	20.20	<=23.98	Pass
			6	21.39	-1.44	19.95	<=23.98	Pass
			13	21.57	-1.44	20.13	<=23.98	Pass
		25	0	21.59	-1.44	20.15	<=23.98	Pass
16QAM	2307.5	1	0	20.99	-1.44	19.55	<=23.98	Pass
			13	21.41	-1.44	19.97	<=23.98	Pass
			24	21.22	-1.44	19.78	<=23.98	Pass
		12	0	20.24	-1.44	18.80	<=23.98	Pass
			6	20.55	-1.44	19.11	<=23.98	Pass
			13	20.50	-1.44	19.06	<=23.98	Pass
		25	0	20.59	-1.44	19.15	<=23.98	Pass
	2310	1	0	21.28	-1.44	19.84	<=23.98	Pass
			13	21.37	-1.44	19.93	<=23.98	Pass
			24	21.34	-1.44	19.90	<=23.98	Pass
		12	0	20.67	-1.44	19.23	<=23.98	Pass
			6	20.79	-1.44	19.35	<=23.98	Pass
			13	20.78	-1.44	19.34	<=23.98	Pass
		25	0	20.74	-1.44	19.30	<=23.98	Pass
	2312.5	1	0	21.19	-1.44	19.75	<=23.98	Pass
			13	21.23	-1.44	19.79	<=23.98	Pass
			24	21.06	-1.44	19.62	<=23.98	Pass
		12	0	20.67	-1.44	19.23	<=23.98	Pass
			6	20.64	-1.44	19.20	<=23.98	Pass
			13	20.67	-1.44	19.23	<=23.98	Pass
		25	0	20.72	-1.44	19.28	<=23.98	Pass
64QAM	2307.5	1	0	21.52	-1.44	20.08	<=23.98	Pass
			13	21.17	-1.44	19.73	<=23.98	Pass
			24	20.40	-1.44	18.96	<=23.98	Pass
		12	0	20.52	-1.44	19.08	<=23.98	Pass
			6	20.60	-1.44	19.16	<=23.98	Pass
			13	20.51	-1.44	19.07	<=23.98	Pass
		25	0	20.70	-1.44	19.26	<=23.98	Pass

	2310	1	0	21.26	-1.44	19.82	<=23.98	Pass
			13	21.22	-1.44	19.78	<=23.98	Pass
			24	20.77	-1.44	19.33	<=23.98	Pass
		12	0	20.56	-1.44	19.12	<=23.98	Pass
			6	20.93	-1.44	19.49	<=23.98	Pass
			13	20.49	-1.44	19.05	<=23.98	Pass
		25	0	20.62	-1.44	19.18	<=23.98	Pass
	2312.5	1	0	20.60	-1.44	19.16	<=23.98	Pass
			13	21.23	-1.44	19.79	<=23.98	Pass
			24	20.60	-1.44	19.16	<=23.98	Pass
		12	0	20.62	-1.44	19.18	<=23.98	Pass
			6	20.34	-1.44	18.90	<=23.98	Pass
			13	20.46	-1.44	19.02	<=23.98	Pass
		25	0	20.49	-1.44	19.05	<=23.98	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B30_5MHz_EIRP/10MHz

Band: 30 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/10MHz (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2307.5	1	0	23.20	-1.44	21.76	<=23.98	Pass
			13	23.15	-1.44	21.71	<=23.98	Pass
			24	23.08	-1.44	21.64	<=23.98	Pass
		12	0	22.22	-1.44	20.78	<=23.98	Pass
			6	22.26	-1.44	20.82	<=23.98	Pass
			13	22.28	-1.44	20.84	<=23.98	Pass
		25	0	22.23	-1.44	20.79	<=23.98	Pass
	2310	1	0	23.10	-1.44	21.66	<=23.98	Pass
			13	23.27	-1.44	21.83	<=23.98	Pass
			24	23.16	-1.44	21.72	<=23.98	Pass
		12	0	22.18	-1.44	20.74	<=23.98	Pass
			6	22.30	-1.44	20.86	<=23.98	Pass
			13	22.37	-1.44	20.93	<=23.98	Pass
		25	0	22.28	-1.44	20.84	<=23.98	Pass
	2312.5	1	0	23.12	-1.44	21.68	<=23.98	Pass
			13	23.18	-1.44	21.74	<=23.98	Pass
			24	23.08	-1.44	21.64	<=23.98	Pass
		12	0	22.21	-1.44	20.77	<=23.98	Pass
			6	22.06	-1.44	20.62	<=23.98	Pass
			13	22.22	-1.44	20.78	<=23.98	Pass
		25	0	22.15	-1.44	20.71	<=23.98	Pass
16QAM	2307.5	1	0	21.50	-1.44	20.06	<=23.98	Pass
			13	21.97	-1.44	20.53	<=23.98	Pass
			24	21.57	-1.44	20.13	<=23.98	Pass
		12	0	21.01	-1.44	19.57	<=23.98	Pass
			6	21.21	-1.44	19.77	<=23.98	Pass
			13	21.17	-1.44	19.73	<=23.98	Pass
		25	0	21.16	-1.44	19.72	<=23.98	Pass
	2310	1	0	21.79	-1.44	20.35	<=23.98	Pass
			13	21.95	-1.44	20.51	<=23.98	Pass
			24	21.86	-1.44	20.42	<=23.98	Pass
		12	0	21.28	-1.44	19.84	<=23.98	Pass
			6	21.37	-1.44	19.93	<=23.98	Pass
			13	21.39	-1.44	19.95	<=23.98	Pass
		25	0	21.36	-1.44	19.92	<=23.98	Pass
	2312.5	1	0	21.78	-1.44	20.34	<=23.98	Pass

64QAM	2307.5		13	21.88	-1.44	20.44	<=23.98	Pass
			24	21.81	-1.44	20.37	<=23.98	Pass
		12	0	21.21	-1.44	19.77	<=23.98	Pass
			6	21.34	-1.44	19.90	<=23.98	Pass
			13	21.27	-1.44	19.83	<=23.98	Pass
		25	0	21.32	-1.44	19.88	<=23.98	Pass
			13	21.32	-1.44	19.88	<=23.98	Pass
		1	0	22.11	-1.44	20.67	<=23.98	Pass
			13	21.73	-1.44	20.29	<=23.98	Pass
			24	20.99	-1.44	19.55	<=23.98	Pass
	2310	12	0	21.01	-1.44	19.57	<=23.98	Pass
			6	21.21	-1.44	19.77	<=23.98	Pass
			13	21.14	-1.44	19.70	<=23.98	Pass
		25	0	21.31	-1.44	19.87	<=23.98	Pass
			13	21.31	-1.44	19.87	<=23.98	Pass
		1	0	21.77	-1.44	20.33	<=23.98	Pass
			13	21.77	-1.44	20.33	<=23.98	Pass
			24	21.25	-1.44	19.81	<=23.98	Pass
		12	0	21.13	-1.44	19.69	<=23.98	Pass
			6	21.51	-1.44	20.07	<=23.98	Pass
			13	21.17	-1.44	19.73	<=23.98	Pass
	2312.5	25	0	21.21	-1.44	19.77	<=23.98	Pass
			13	21.21	-1.44	19.77	<=23.98	Pass
		1	0	21.42	-1.44	19.98	<=23.98	Pass
			13	21.71	-1.44	20.27	<=23.98	Pass
			24	21.18	-1.44	19.74	<=23.98	Pass
		12	0	21.25	-1.44	19.81	<=23.98	Pass
			6	20.94	-1.44	19.50	<=23.98	Pass
			13	21.07	-1.44	19.63	<=23.98	Pass
		25	0	21.12	-1.44	19.68	<=23.98	Pass
			13	21.12	-1.44	19.68	<=23.98	Pass

Note1: EIRP/10MHz=Conducted Power+Antenna Gain-2.15

1.1.3 B30_10MHz_EIRP

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	22.94	-1.44	21.50	<=23.98	Pass
			25	22.56	-1.44	21.12	<=23.98	Pass
			49	22.66	-1.44	21.22	<=23.98	Pass
		25	0	21.68	-1.44	20.24	<=23.98	Pass
			13	21.64	-1.44	20.20	<=23.98	Pass
			25	21.53	-1.44	20.09	<=23.98	Pass
		50	0	21.69	-1.44	20.25	<=23.98	Pass
16QAM	2310	1	0	21.75	-1.44	20.31	<=23.98	Pass
			25	21.63	-1.44	20.19	<=23.98	Pass
			49	21.54	-1.44	20.10	<=23.98	Pass
		25	0	20.84	-1.44	19.40	<=23.98	Pass
			13	20.83	-1.44	19.39	<=23.98	Pass
			25	20.63	-1.44	19.19	<=23.98	Pass
		50	0	20.63	-1.44	19.19	<=23.98	Pass
64QAM	2310	1	0	20.94	-1.44	19.50	<=23.98	Pass
			25	21.43	-1.44	19.99	<=23.98	Pass
			49	21.25	-1.44	19.81	<=23.98	Pass
		25	0	20.86	-1.44	19.42	<=23.98	Pass
			13	20.75	-1.44	19.31	<=23.98	Pass
			25	20.57	-1.44	19.13	<=23.98	Pass
		50	0	20.73	-1.44	19.29	<=23.98	Pass

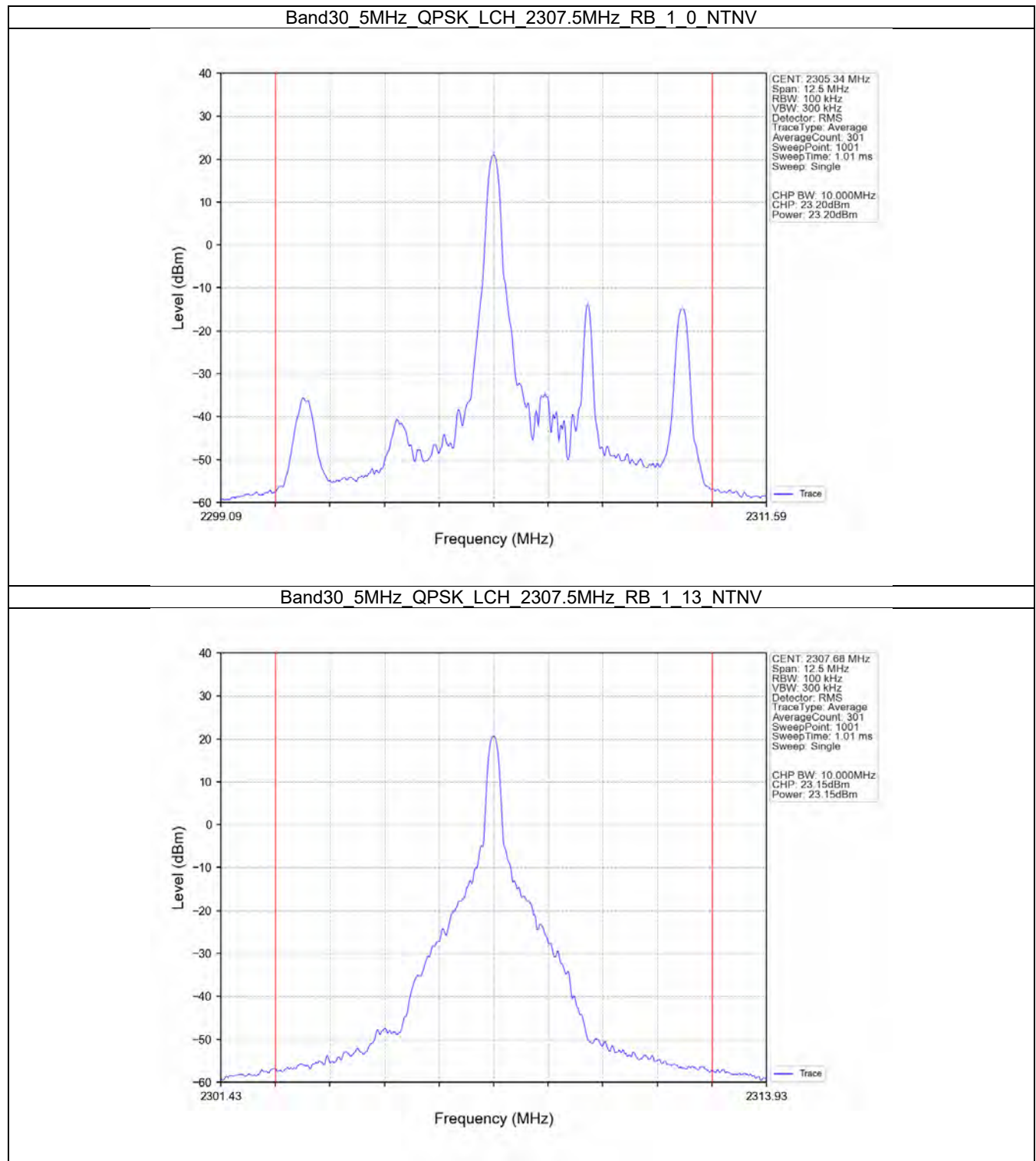
Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B30_10MHz_EIRP/10MHz

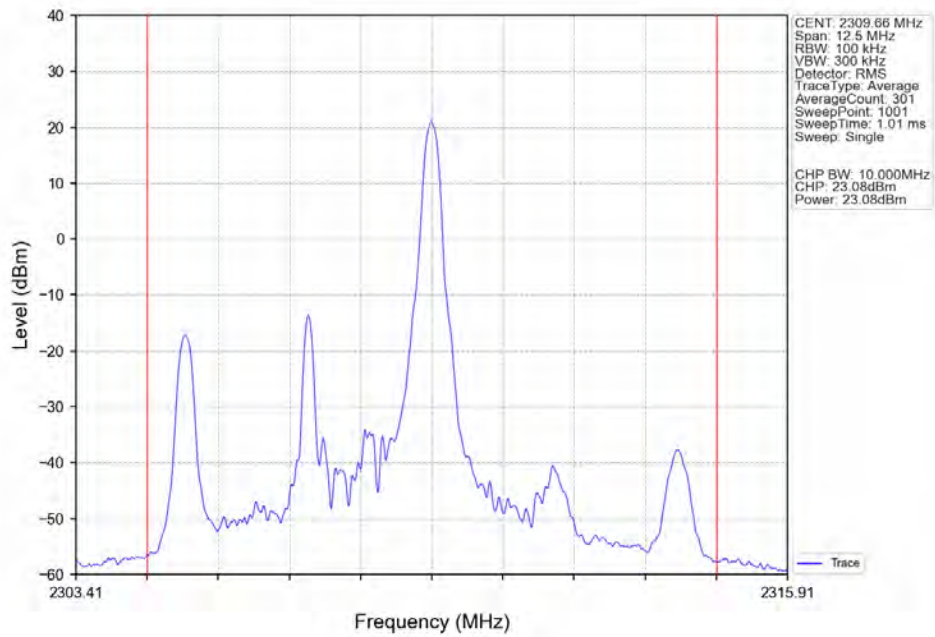
Band: 30 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/10MHz (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	23.10	-1.44	21.66	<=23.98	Pass
			25	23.00	-1.44	21.56	<=23.98	Pass
			49	22.76	-1.44	21.32	<=23.98	Pass
		25	0	21.82	-1.44	20.38	<=23.98	Pass
			13	21.81	-1.44	20.37	<=23.98	Pass
			25	21.76	-1.44	20.32	<=23.98	Pass
		50	0	21.86	-1.44	20.42	<=23.98	Pass
16QAM	2310	1	0	21.77	-1.44	20.33	<=23.98	Pass
			25	21.78	-1.44	20.34	<=23.98	Pass
			49	21.60	-1.44	20.16	<=23.98	Pass
		25	0	20.99	-1.44	19.55	<=23.98	Pass
			13	21.02	-1.44	19.58	<=23.98	Pass
			25	20.90	-1.44	19.46	<=23.98	Pass
		50	0	20.77	-1.44	19.33	<=23.98	Pass
64QAM	2310	1	0	21.30	-1.44	19.86	<=23.98	Pass
			25	21.51	-1.44	20.07	<=23.98	Pass
			49	21.43	-1.44	19.99	<=23.98	Pass
		25	0	20.93	-1.44	19.49	<=23.98	Pass
			13	20.98	-1.44	19.54	<=23.98	Pass
			25	20.79	-1.44	19.35	<=23.98	Pass
		50	0	20.93	-1.44	19.49	<=23.98	Pass
Note1: EIRP/10MHz=Conducted Power+Antenna Gain-2.15								

1.2 Test Graph

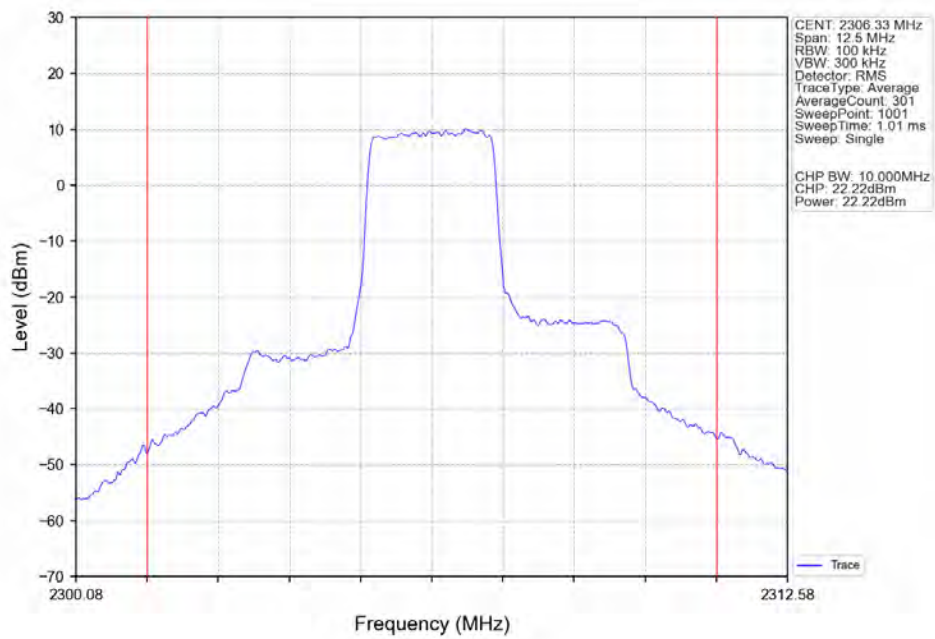
1.2.1 B30_5MHz_EIRP/10MHz



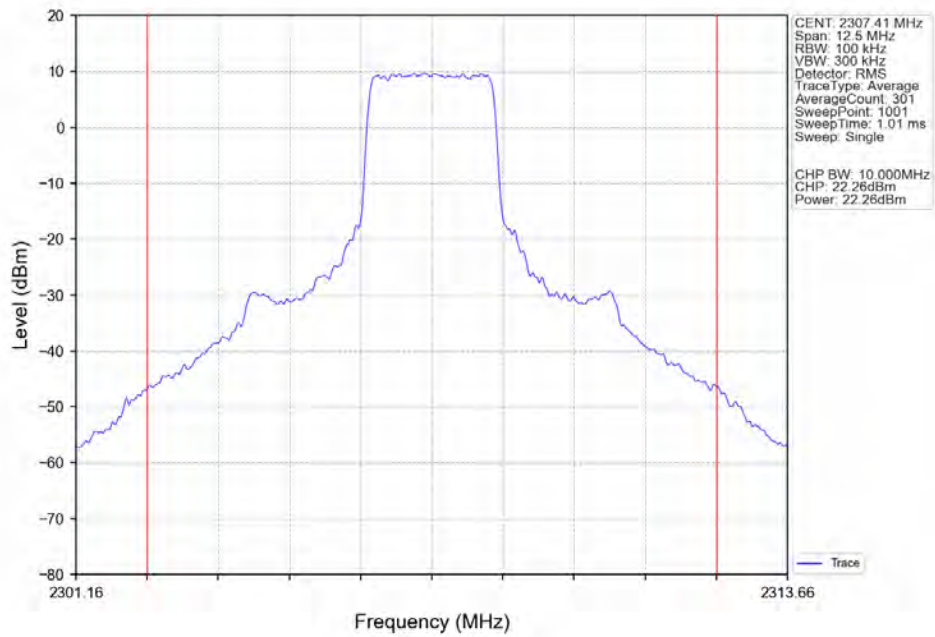
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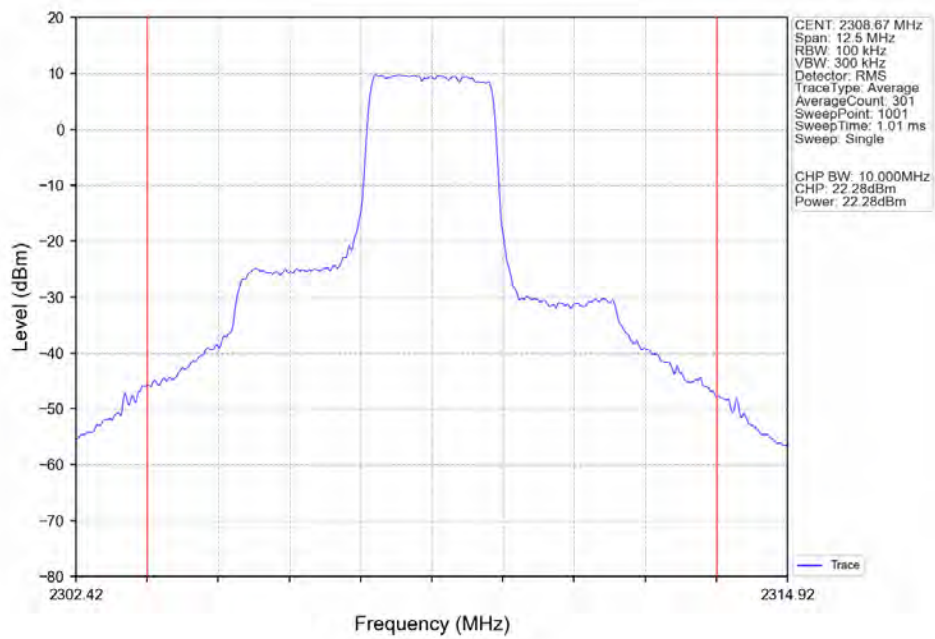
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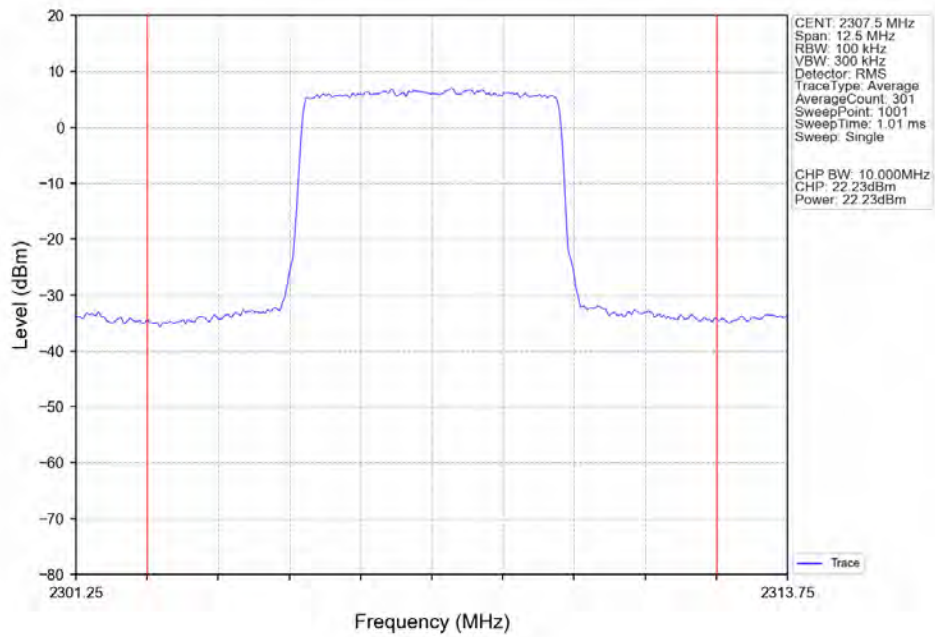
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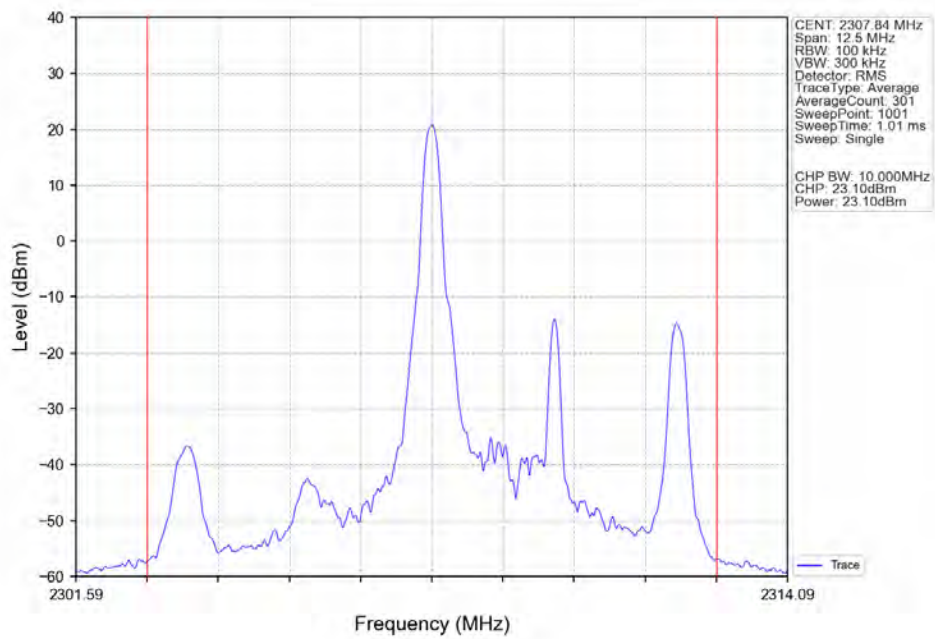
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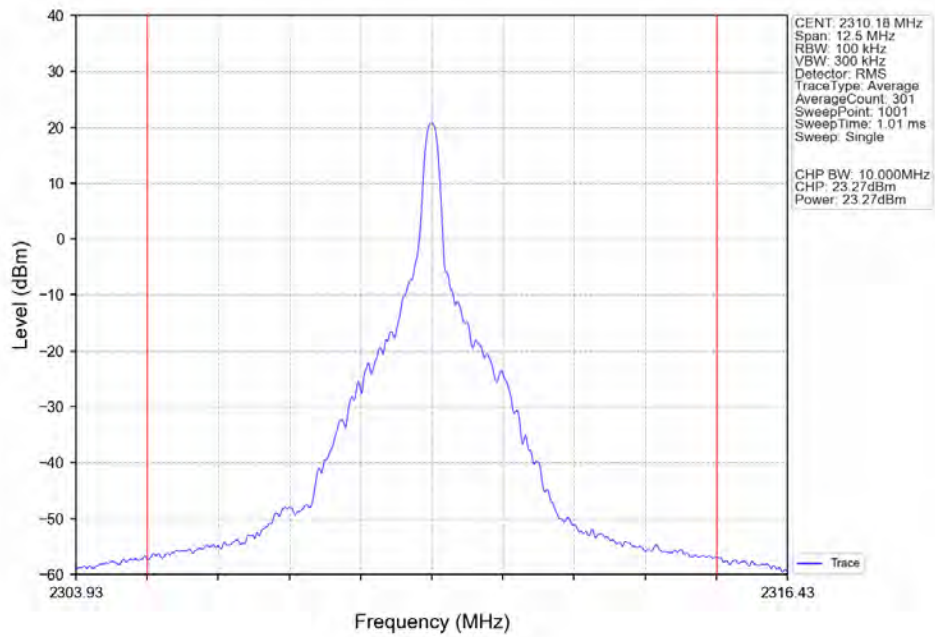
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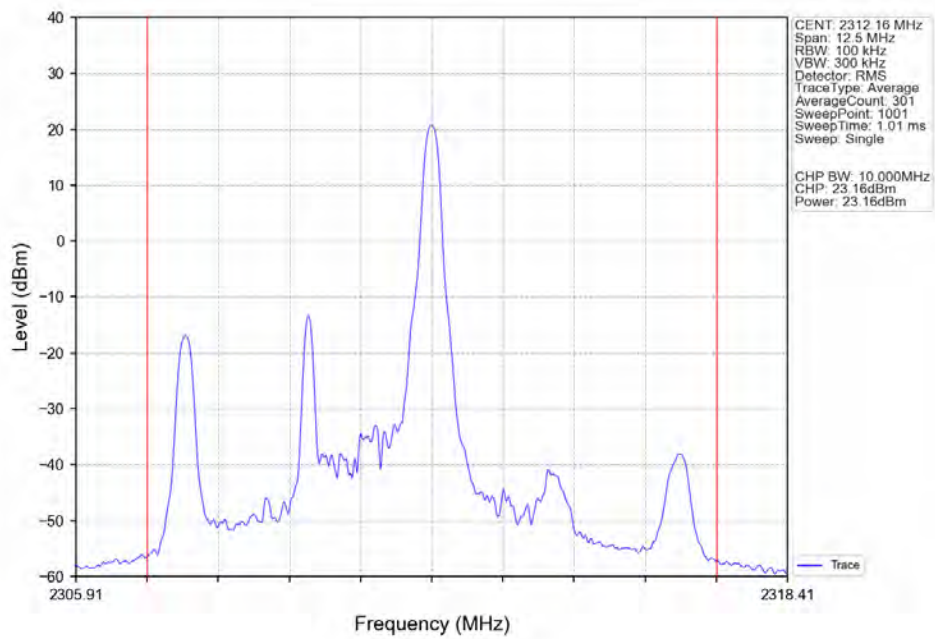
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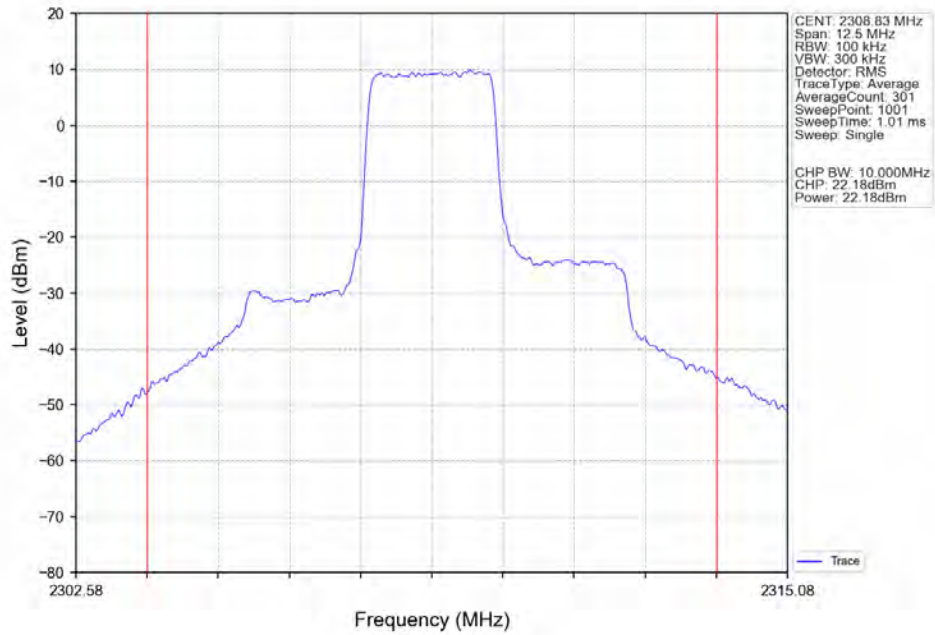
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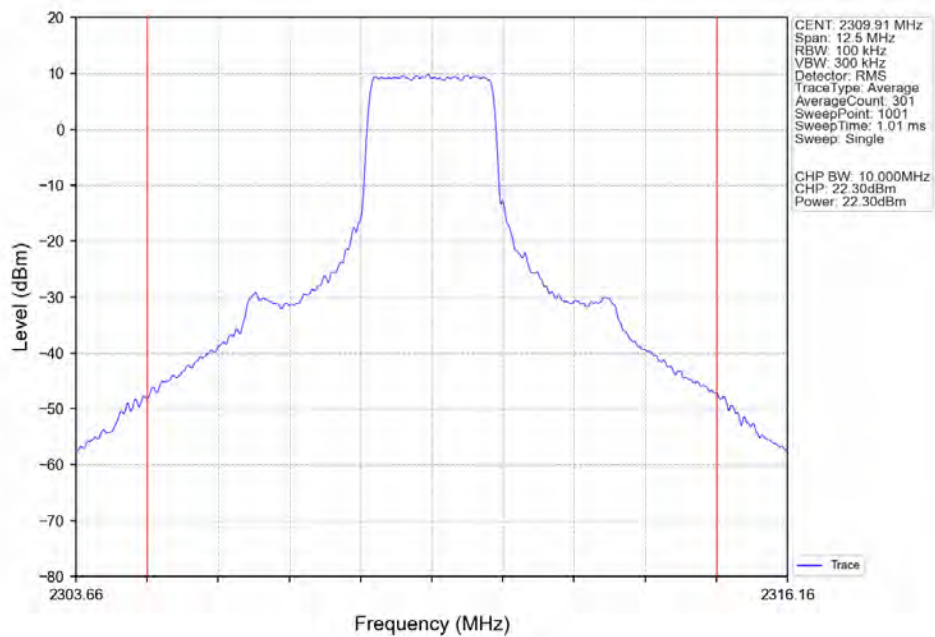
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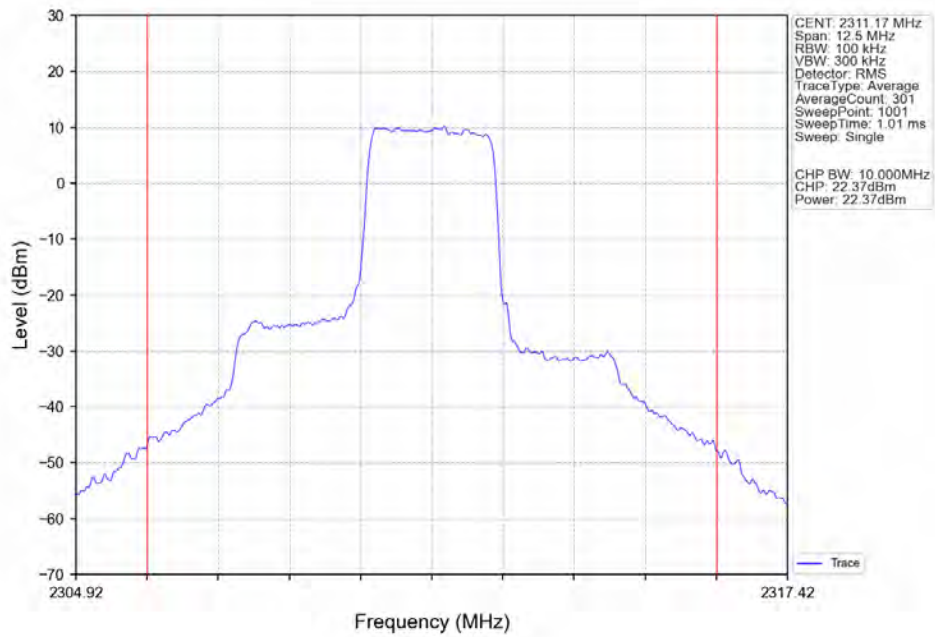
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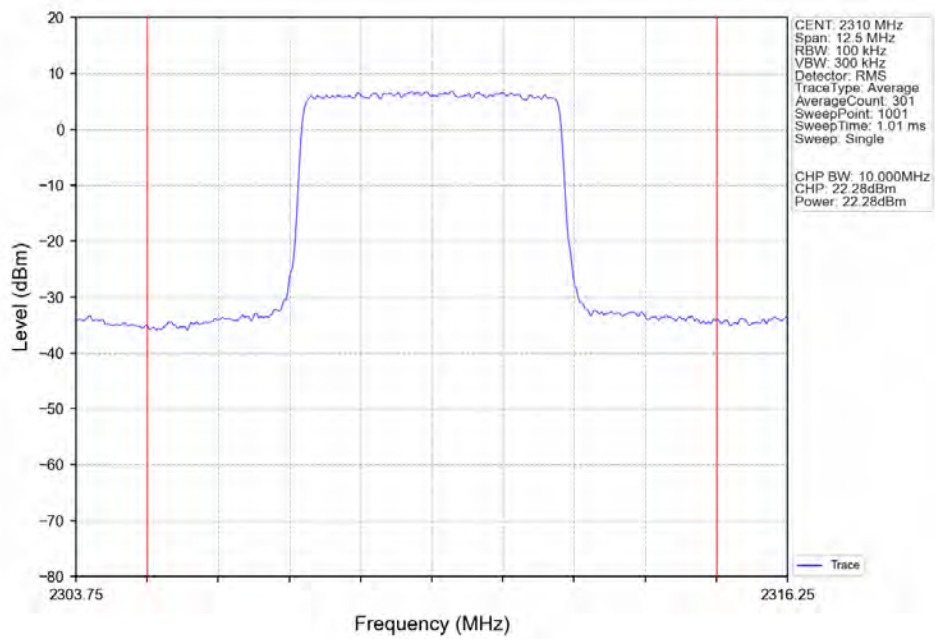
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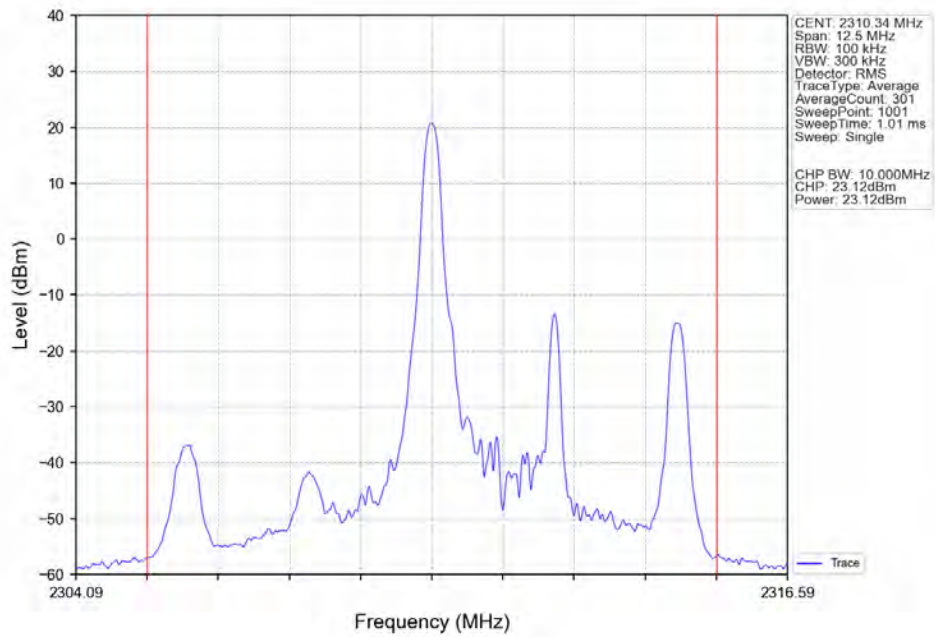
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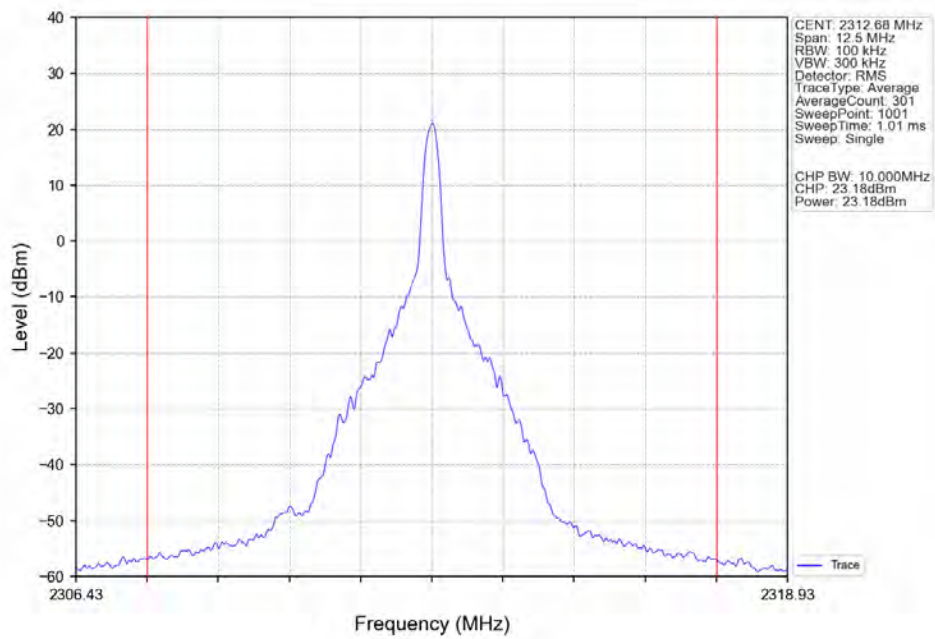
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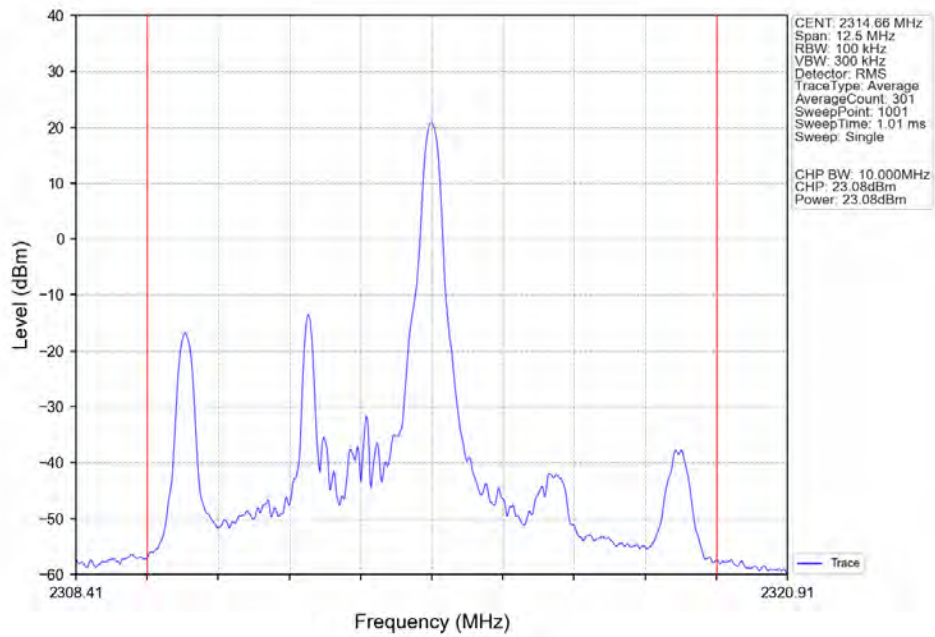
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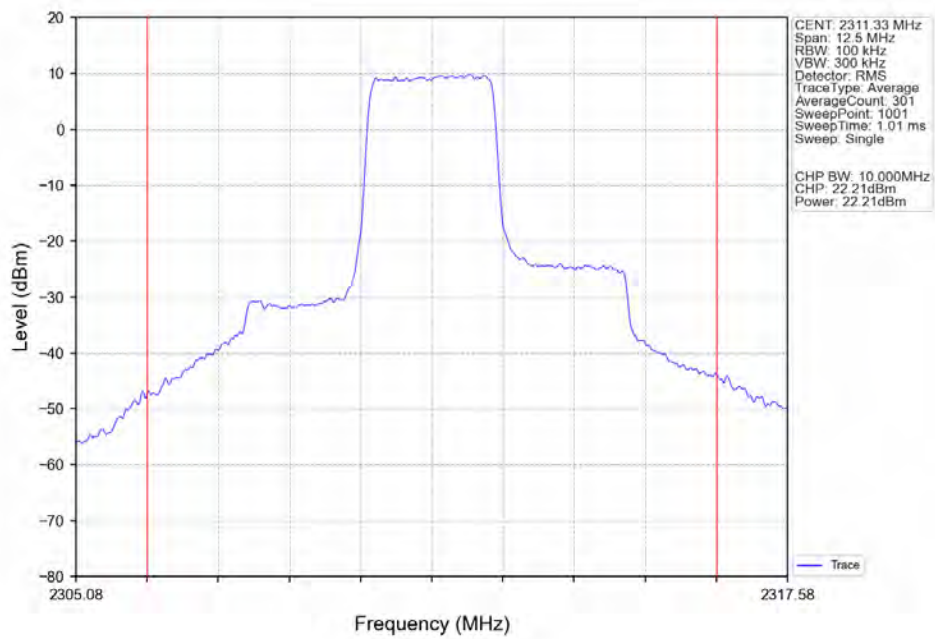
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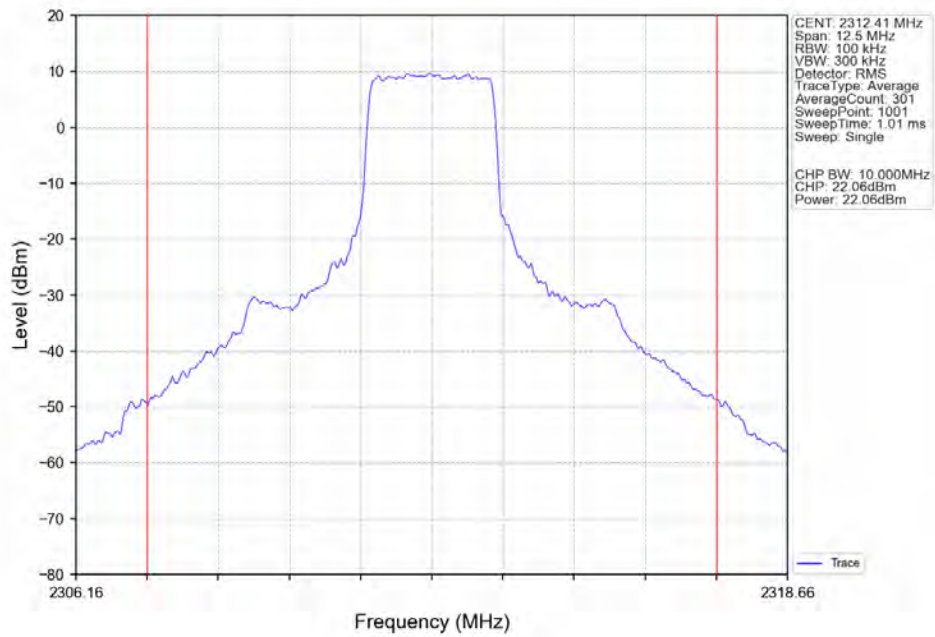
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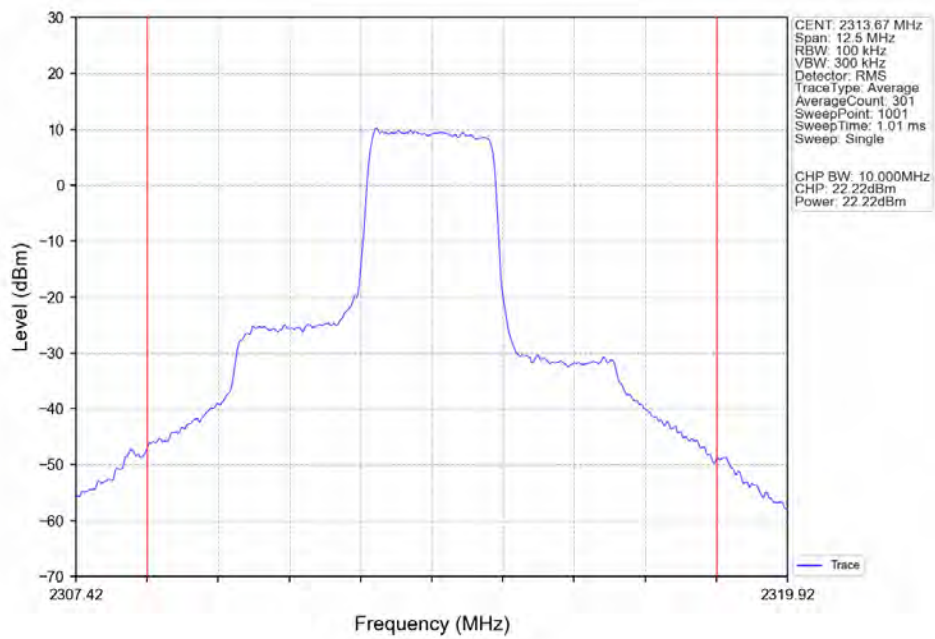
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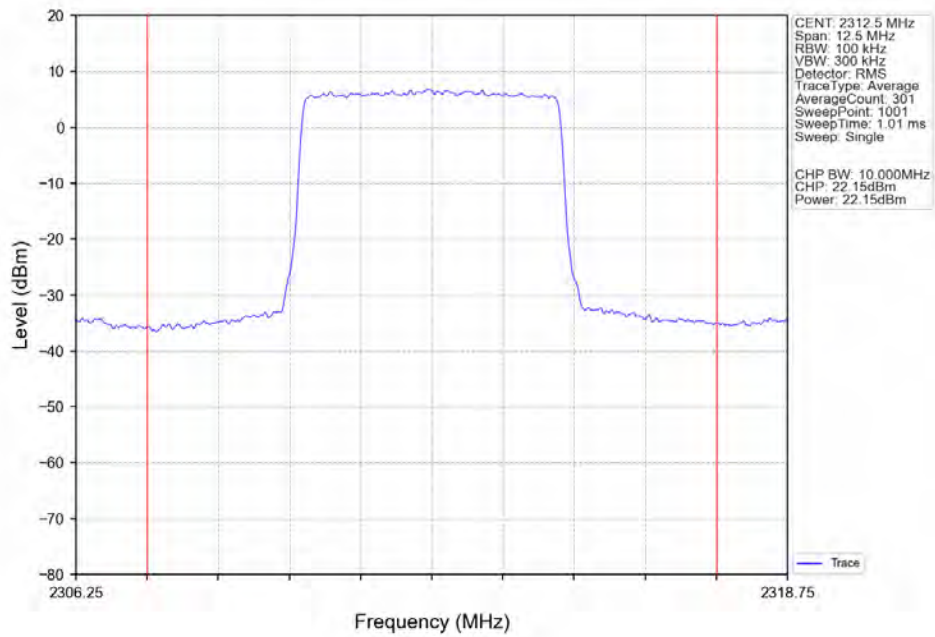
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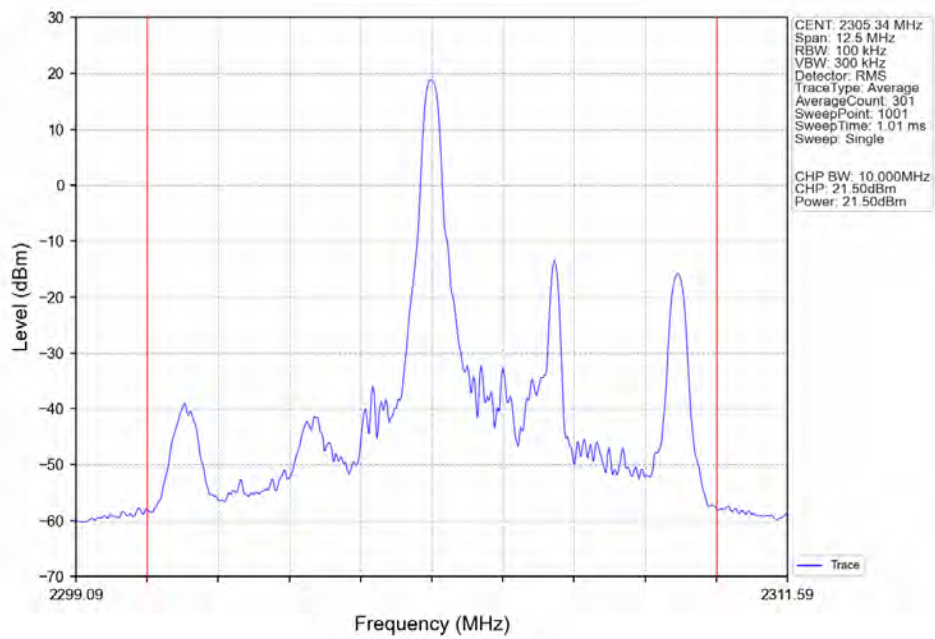
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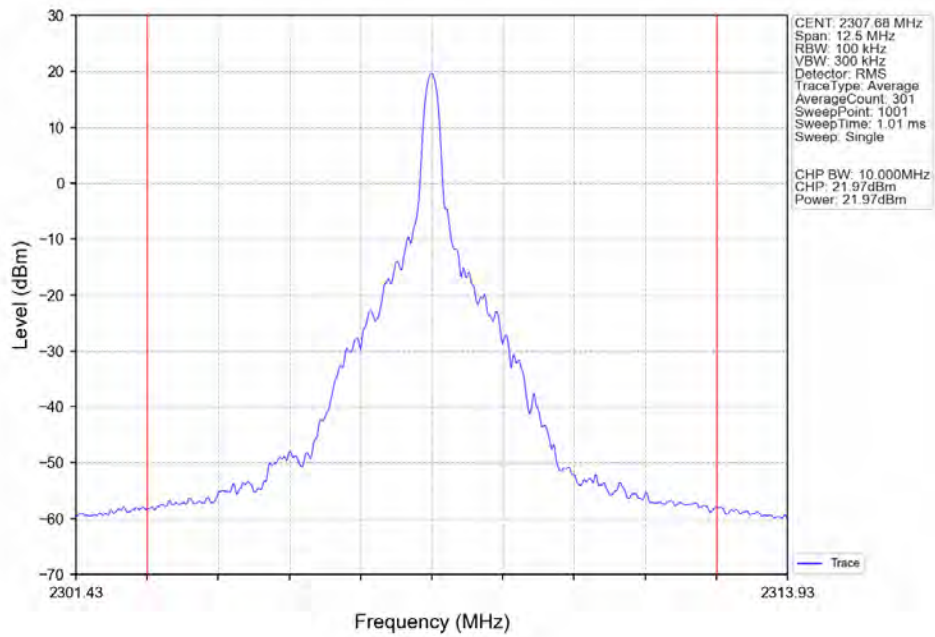
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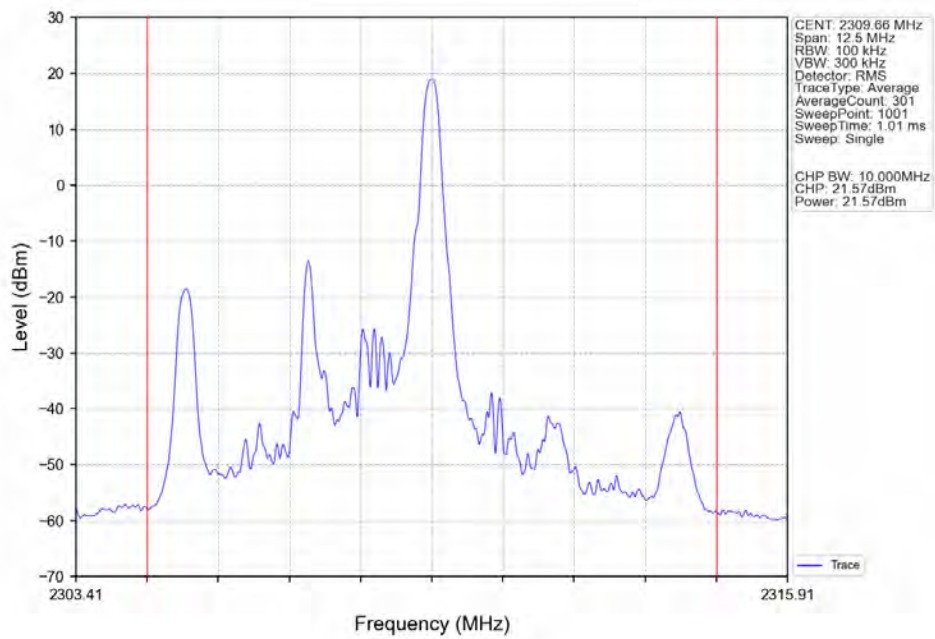
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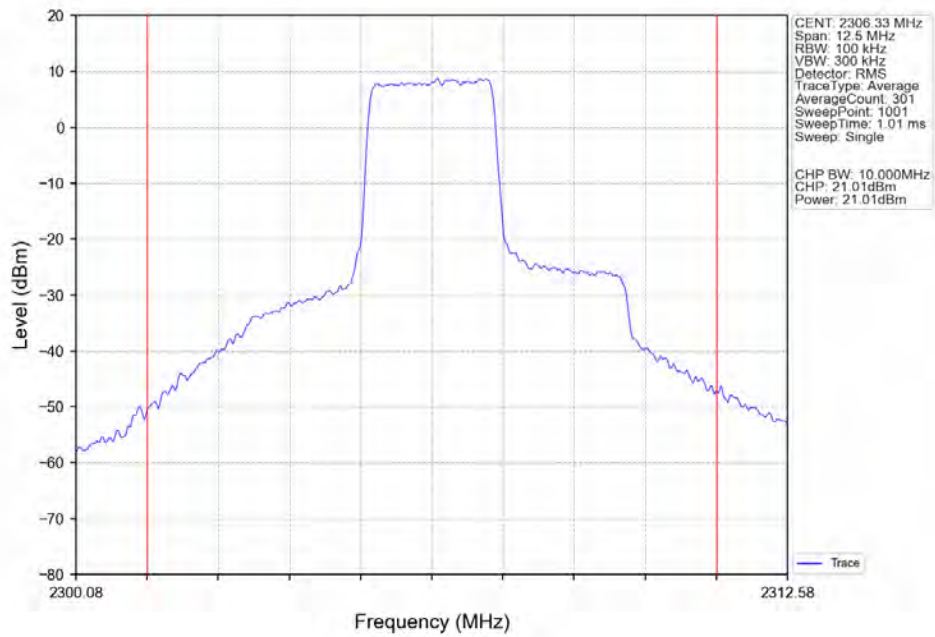
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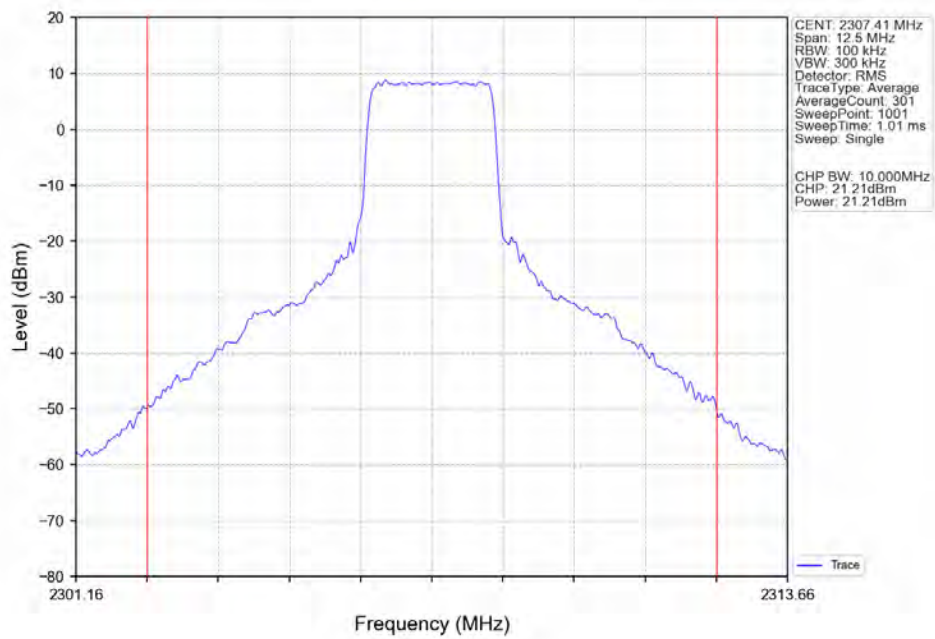
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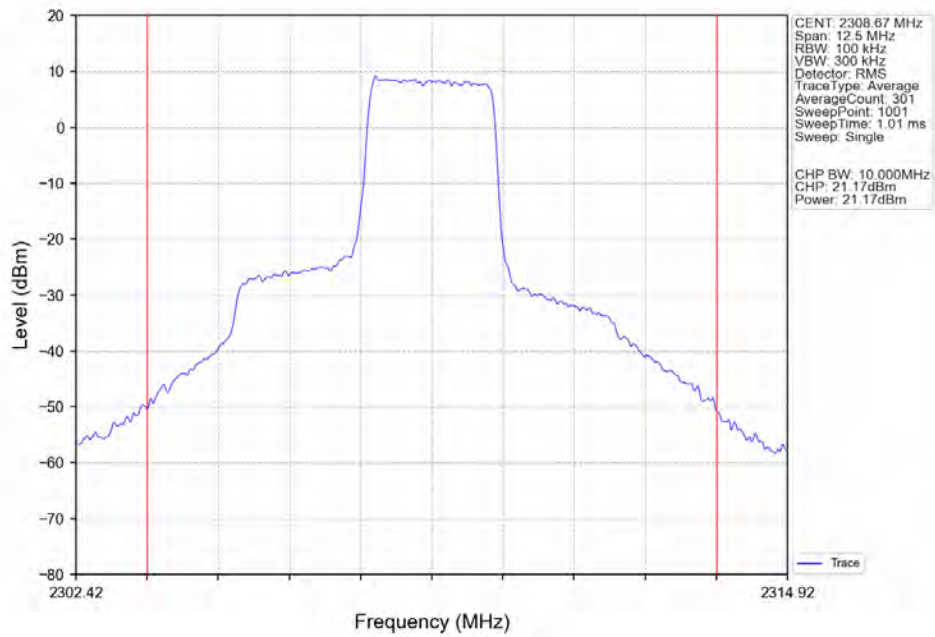
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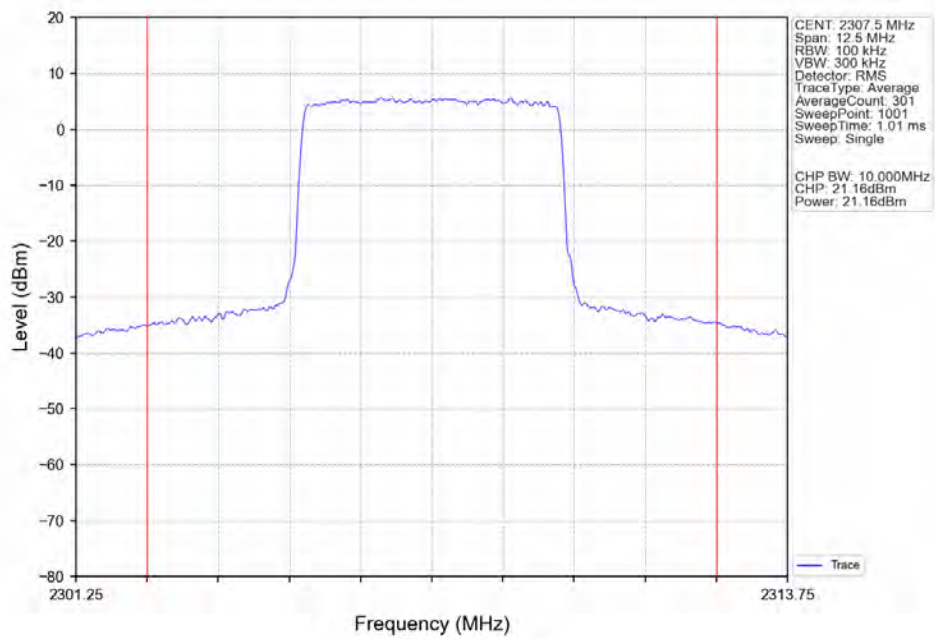
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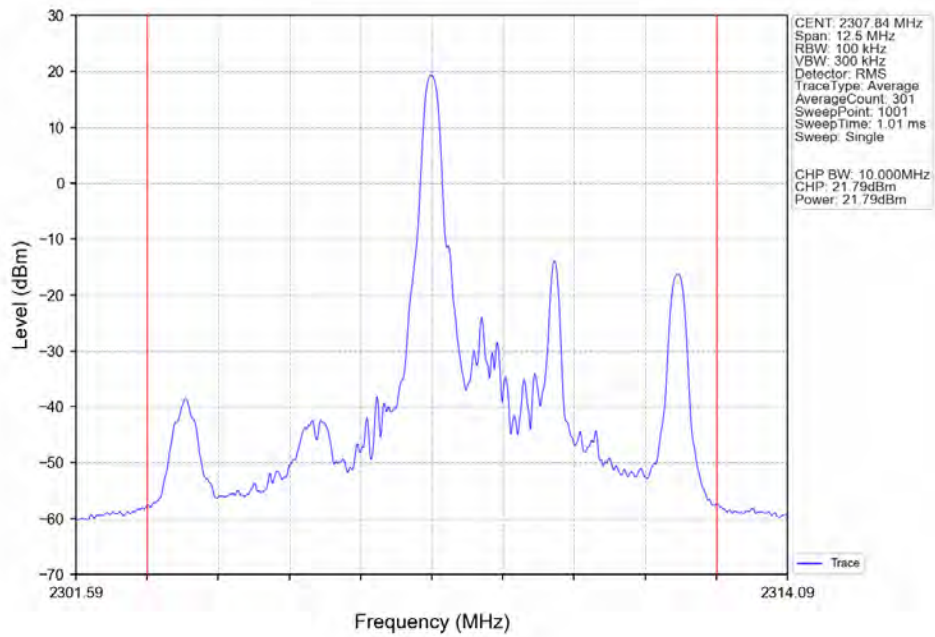
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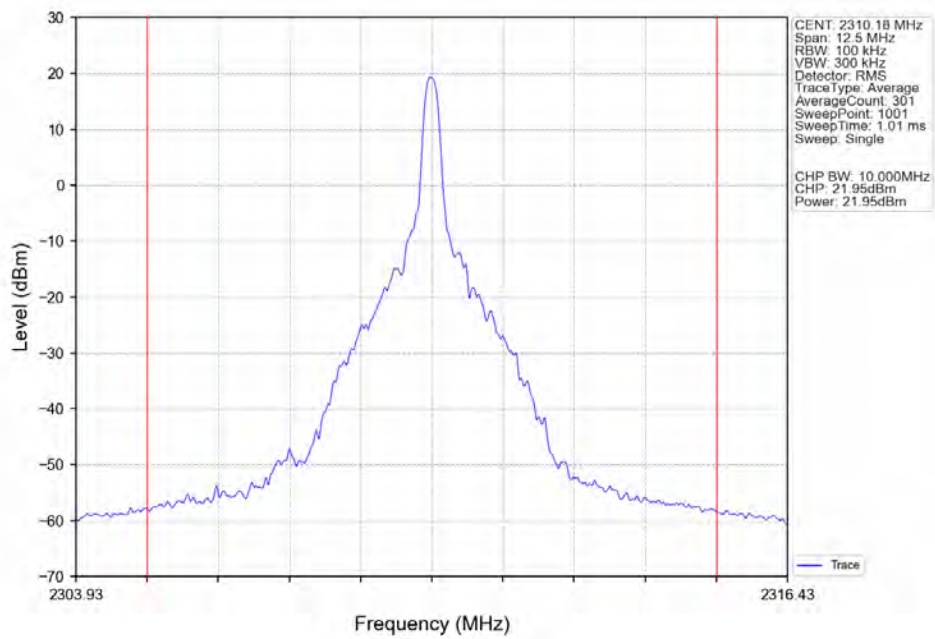
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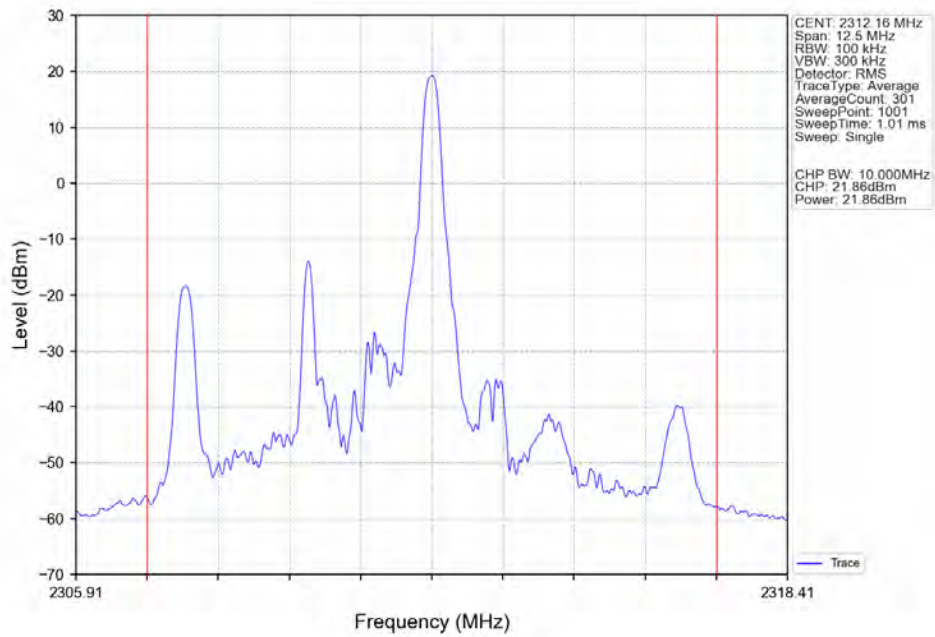
Band30_5MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV



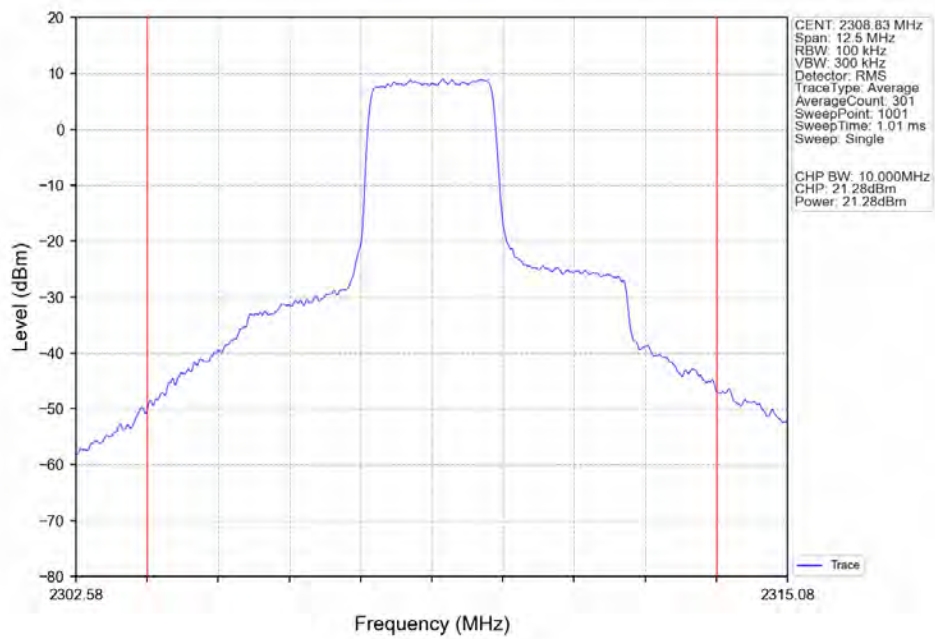
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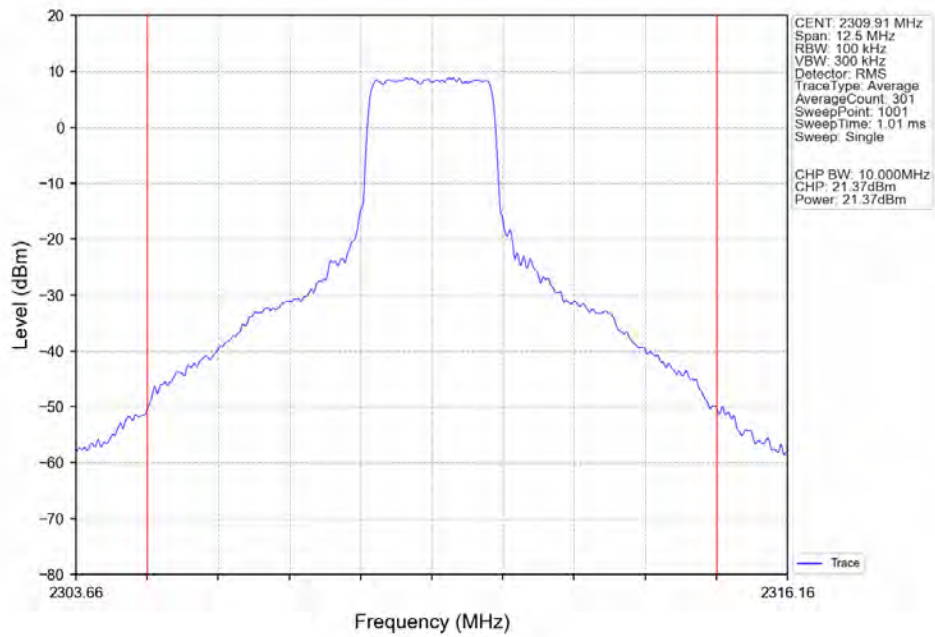
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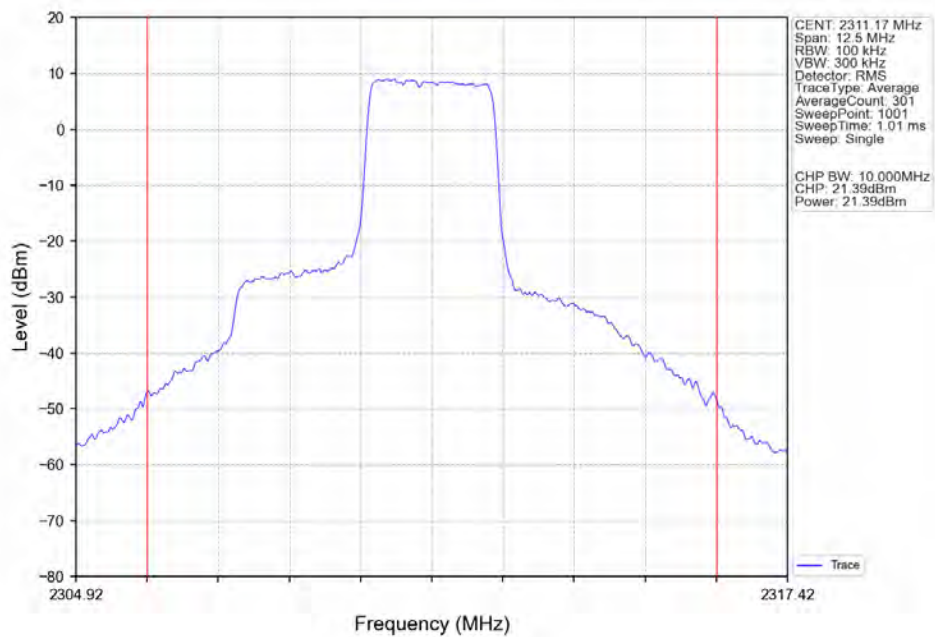
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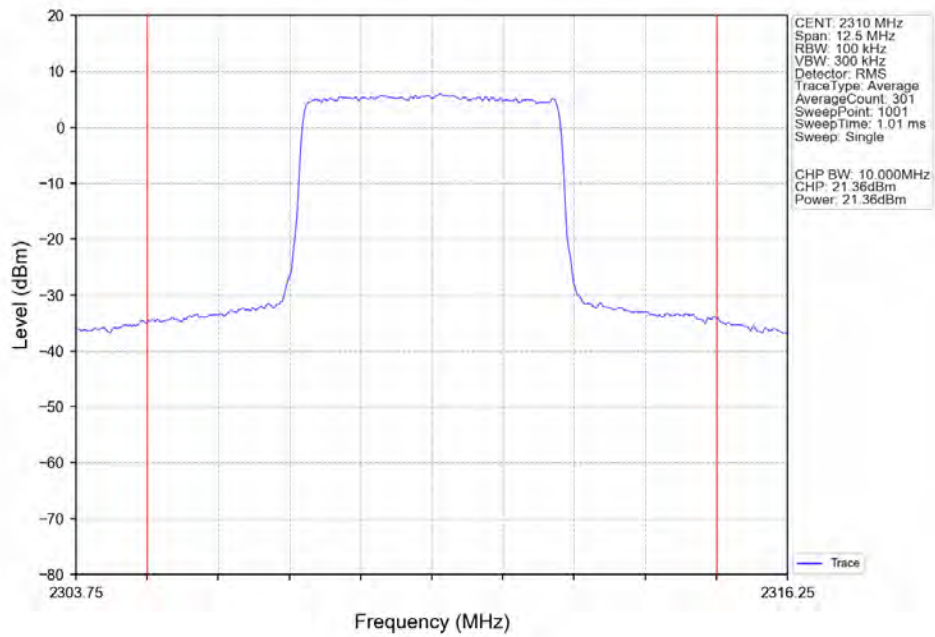
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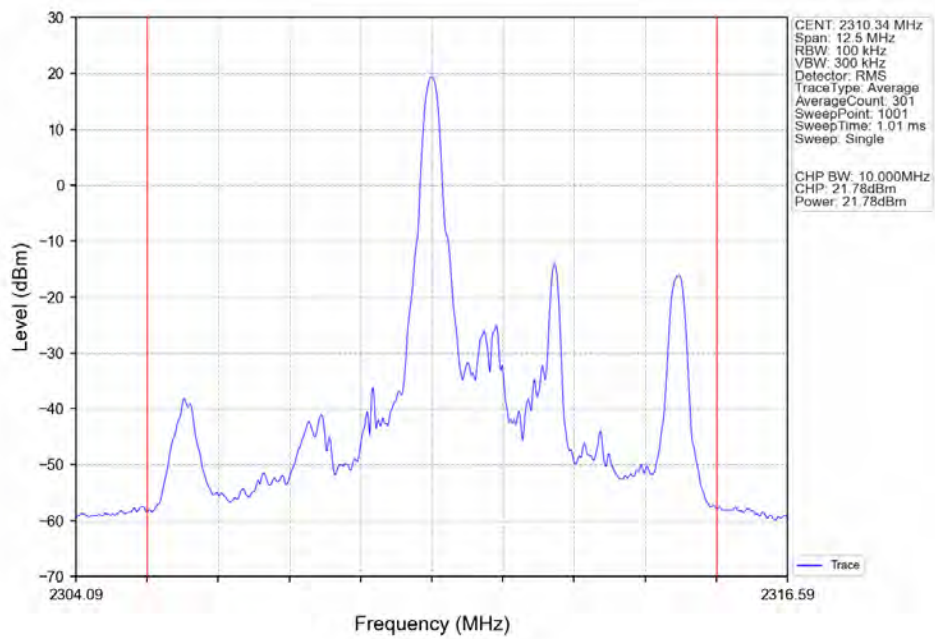
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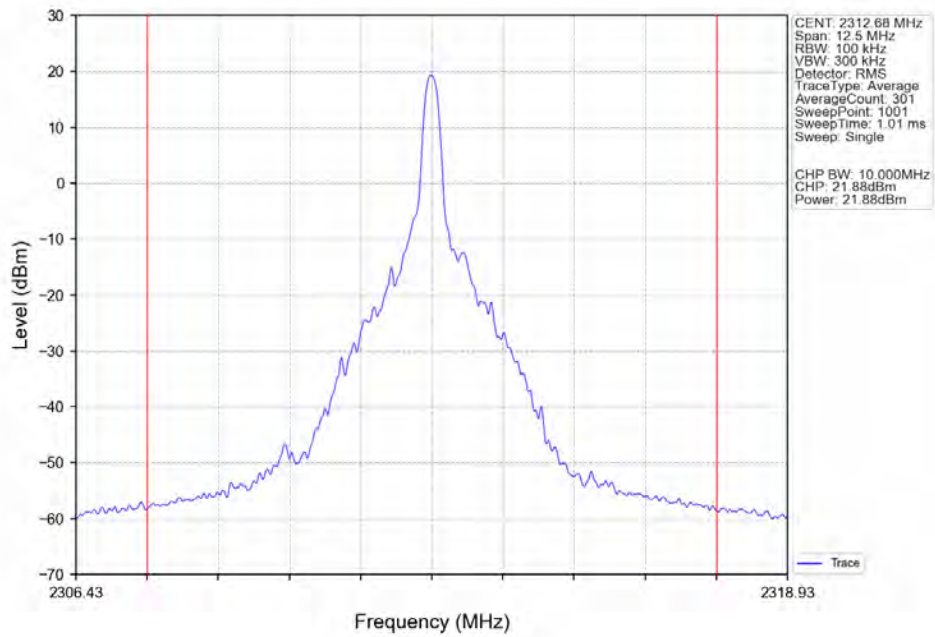
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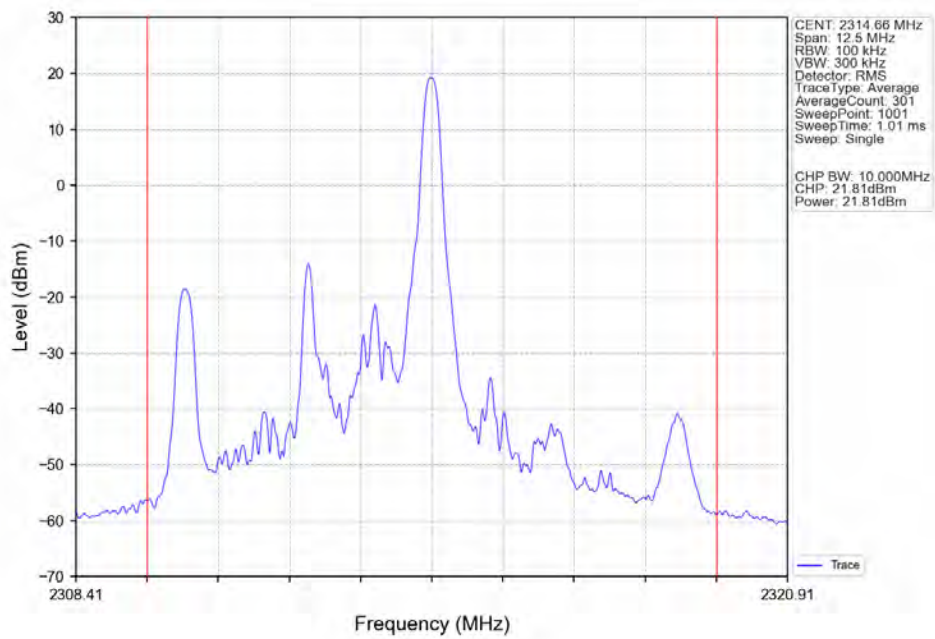
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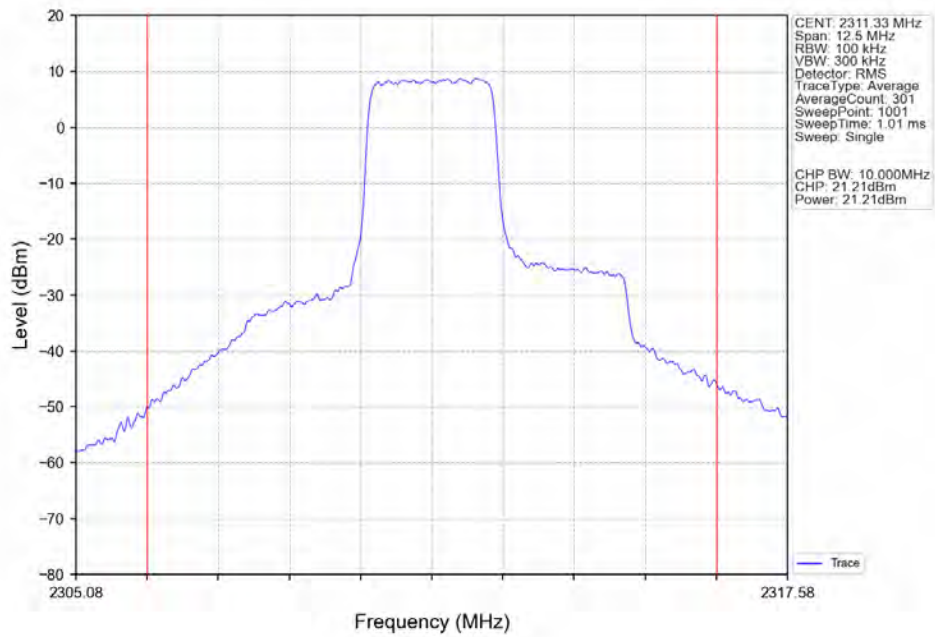
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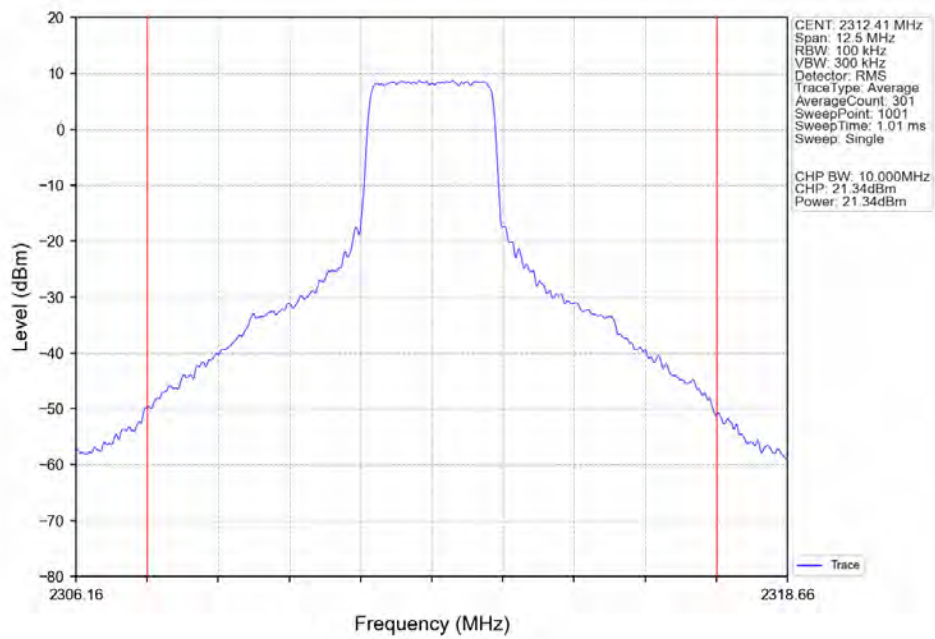
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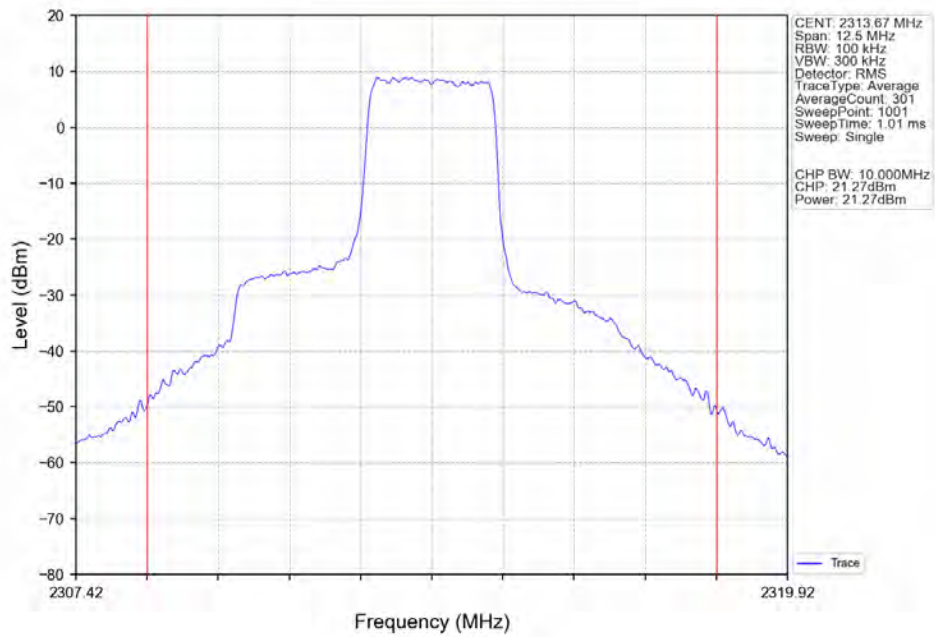
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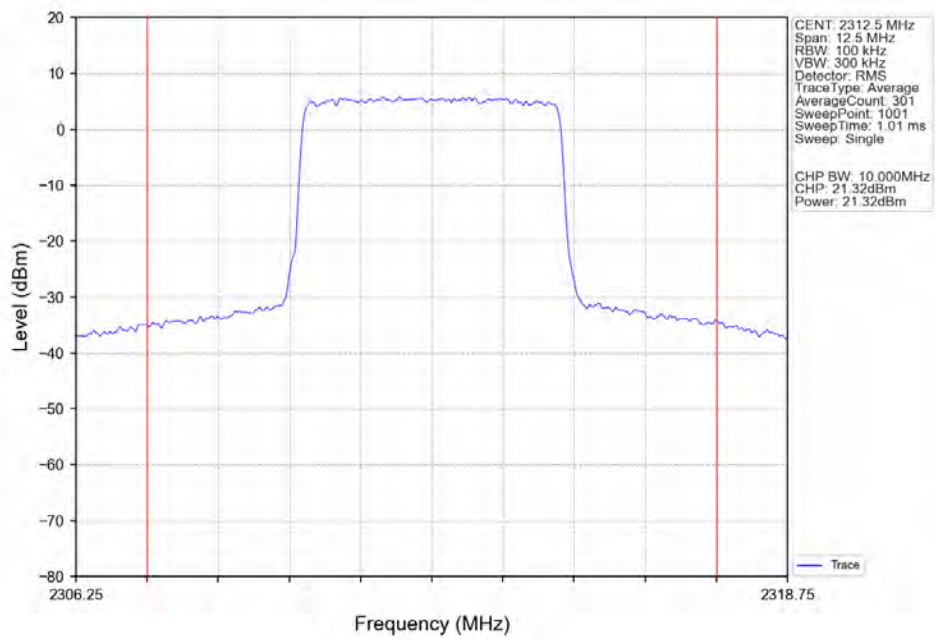
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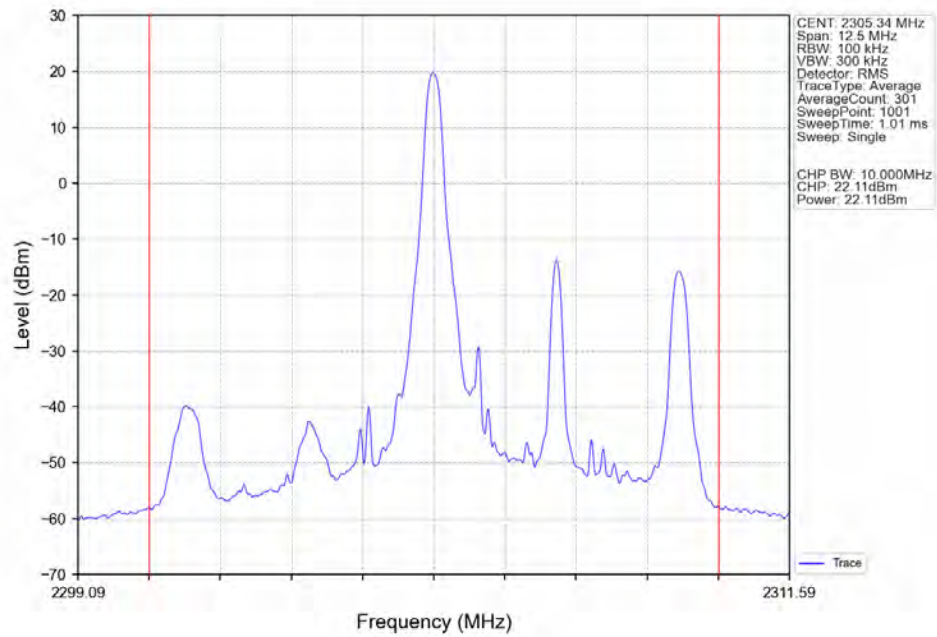
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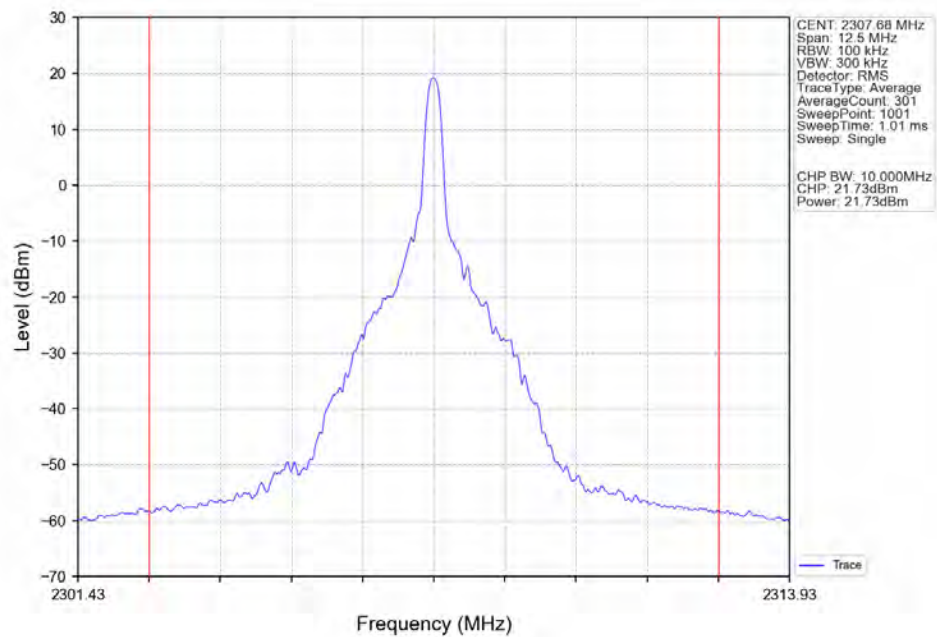
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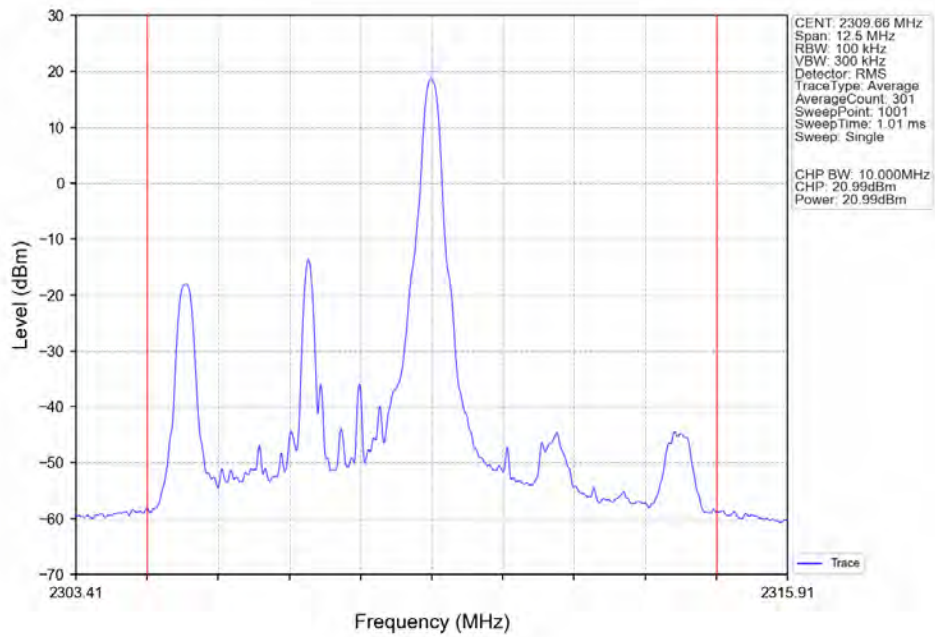
Band30_5MHz_64QAM_LCH_2307.5MHz_RB_1_0_NTNV



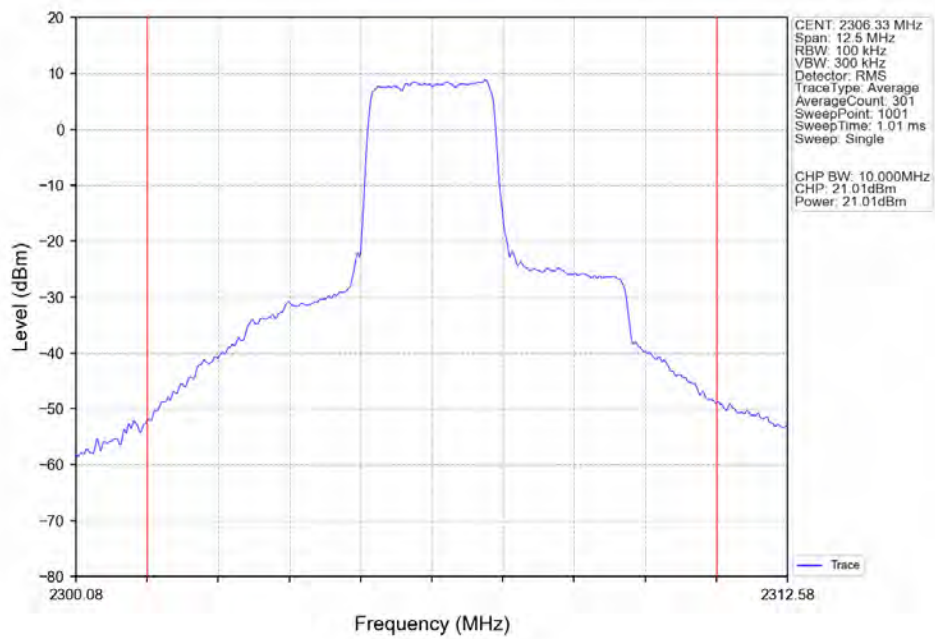
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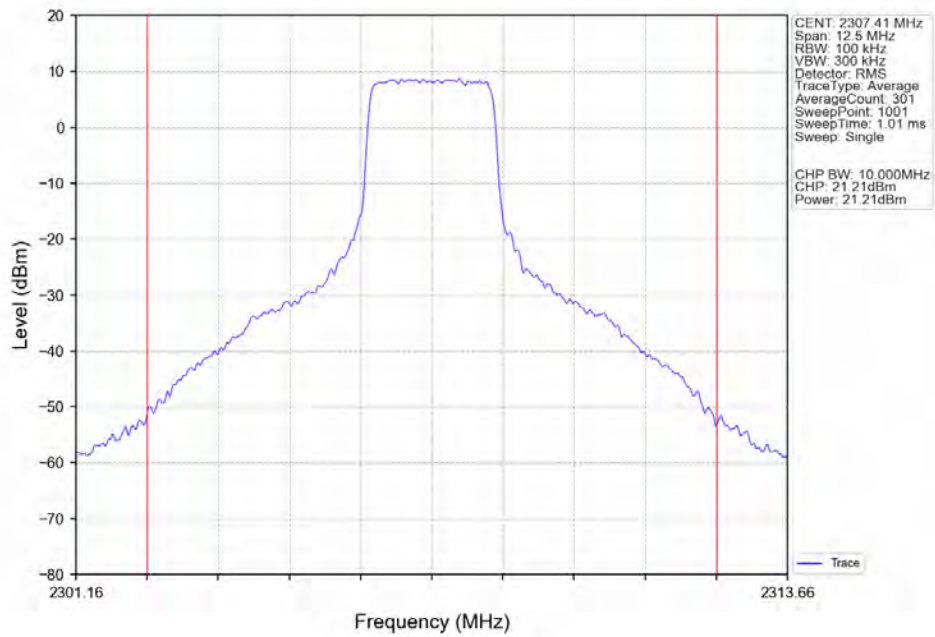
Band30 5MHz 64QAM LCH 2307.5MHz RB 1 24 NTNV



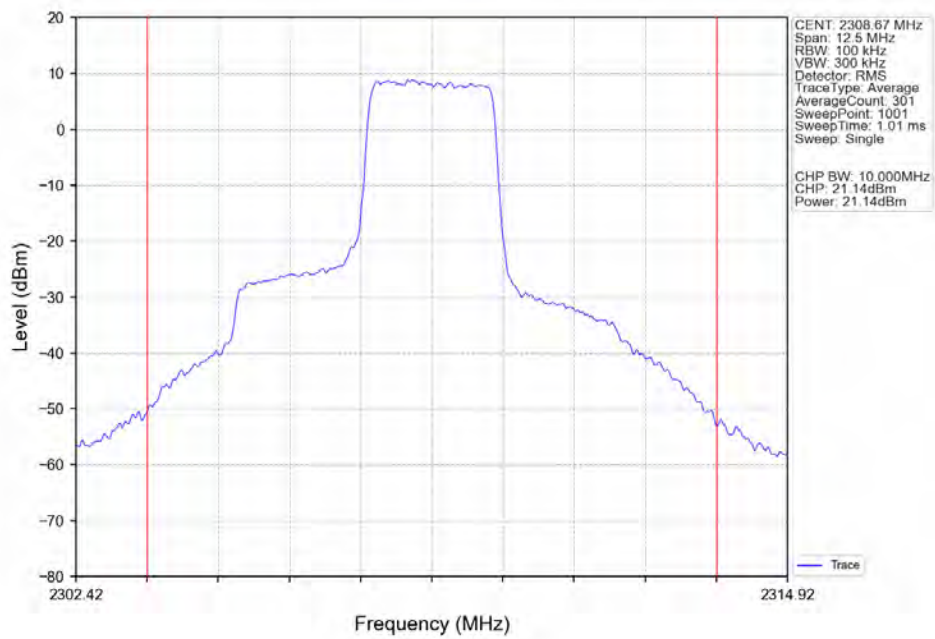
Band30 5MHz 64QAM LCH 2307.5MHz RB 12 0 NTNV



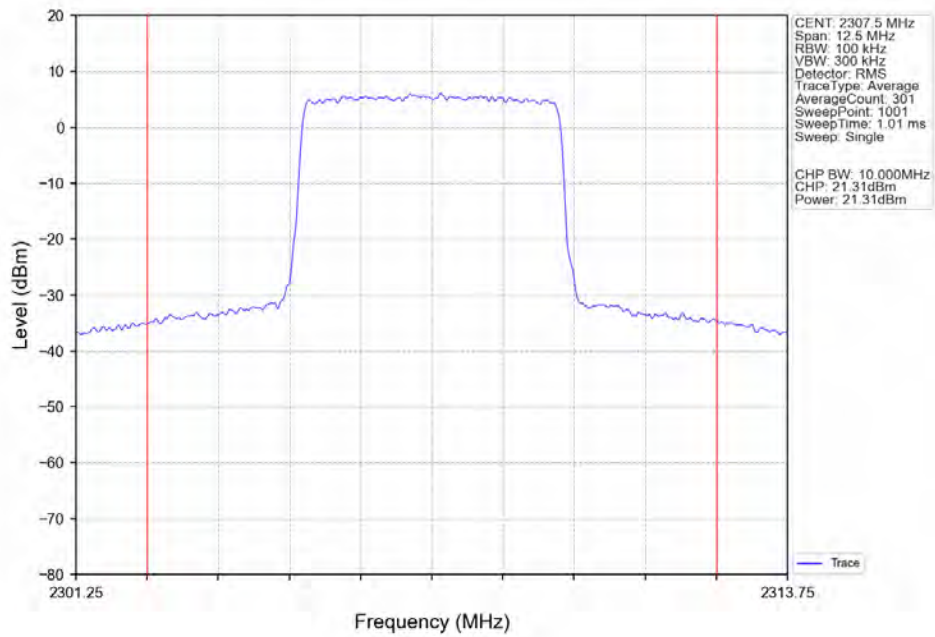
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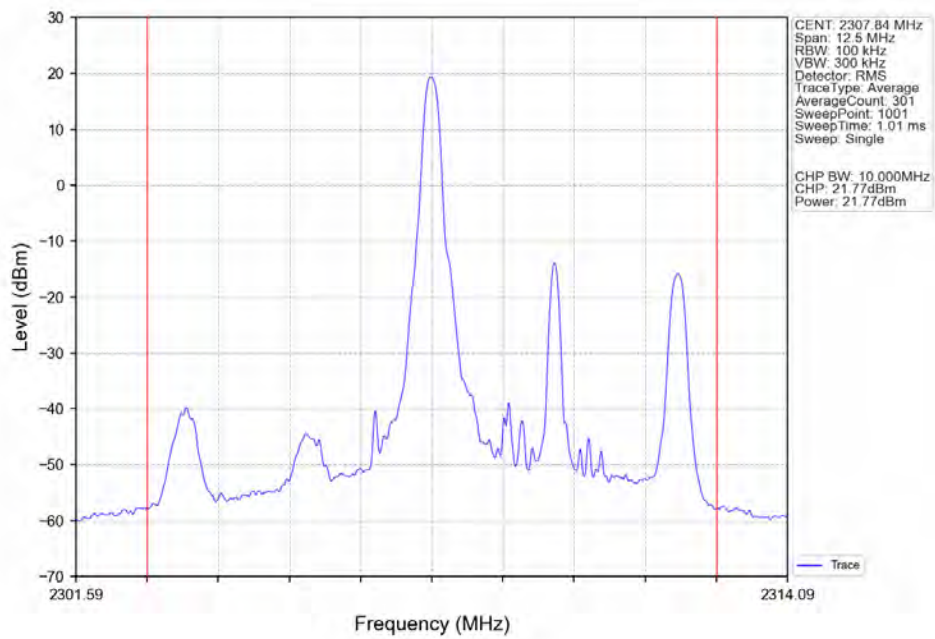
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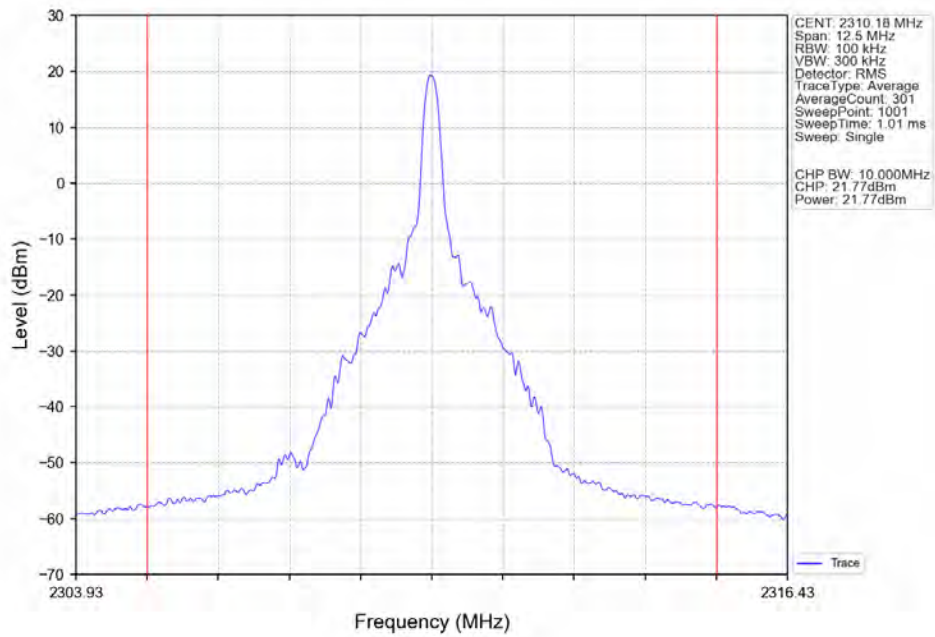
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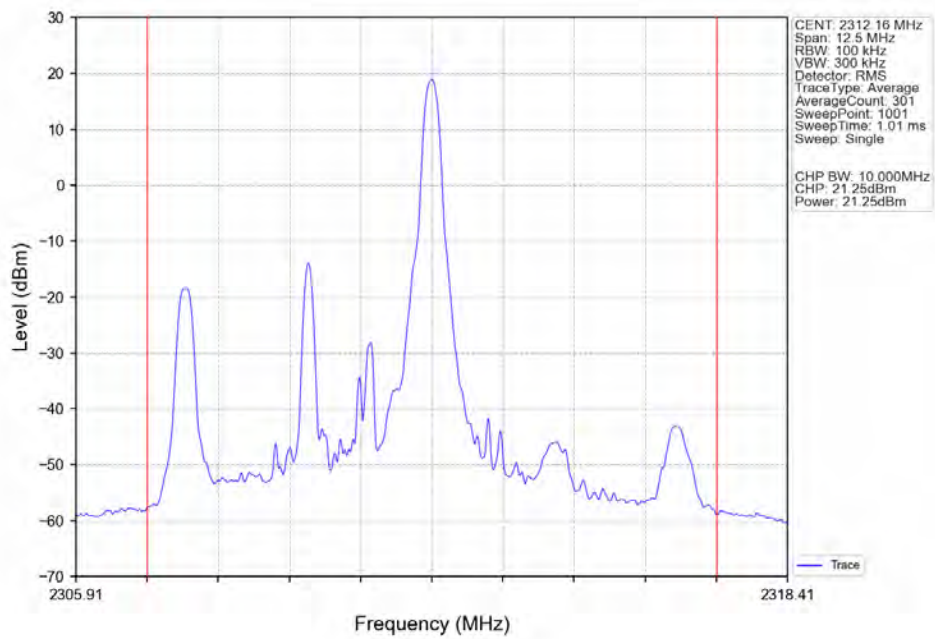
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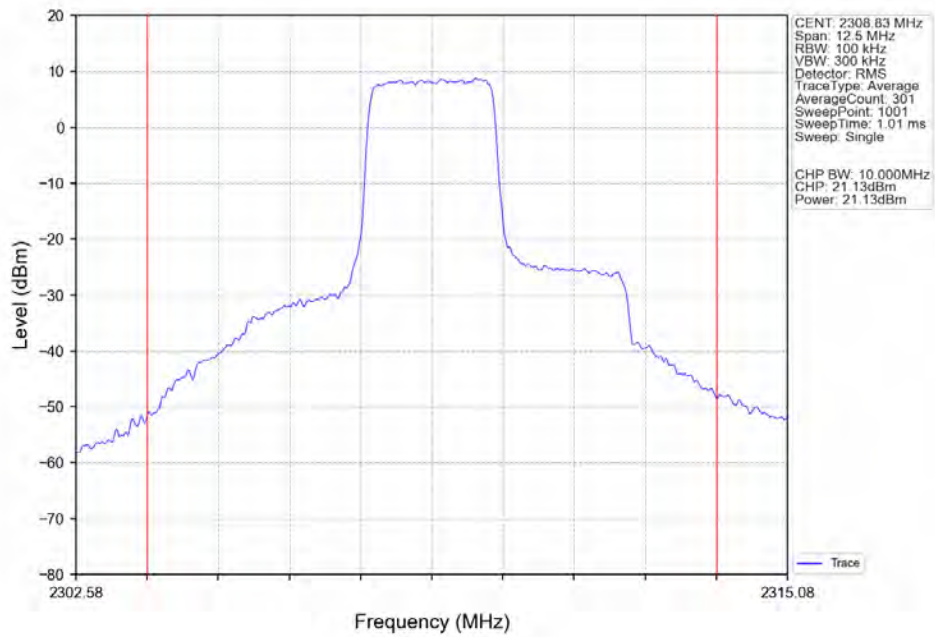
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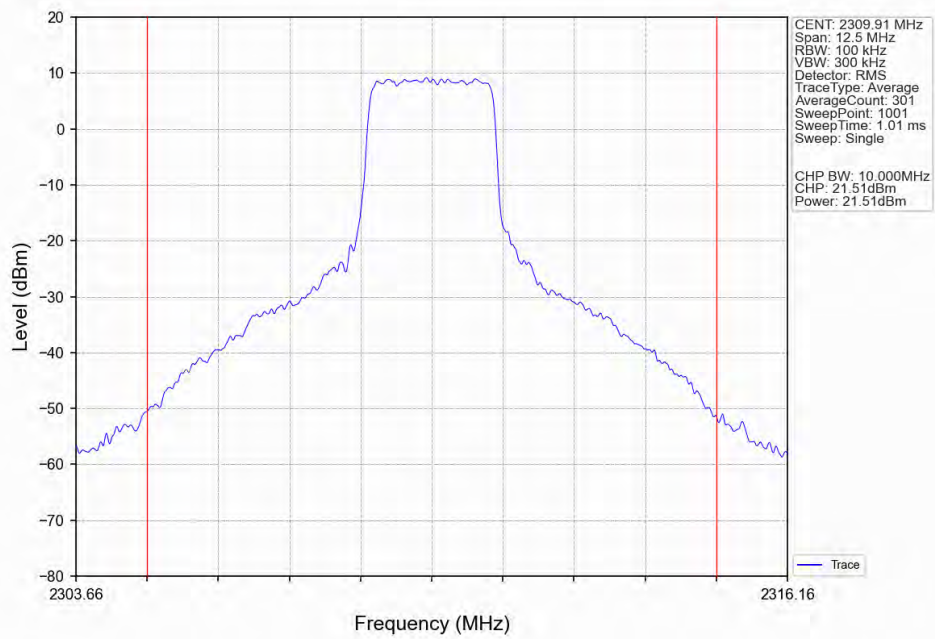
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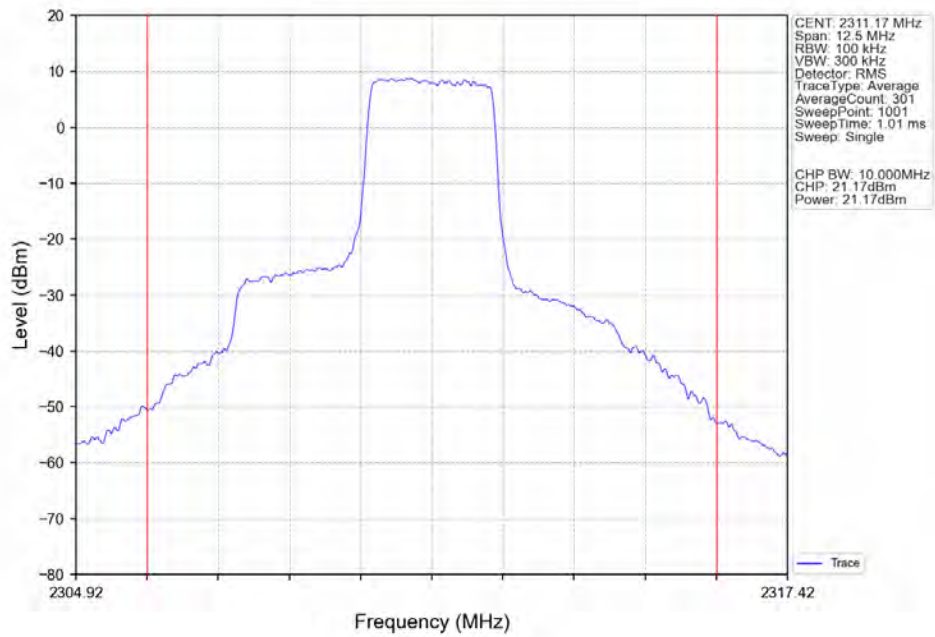
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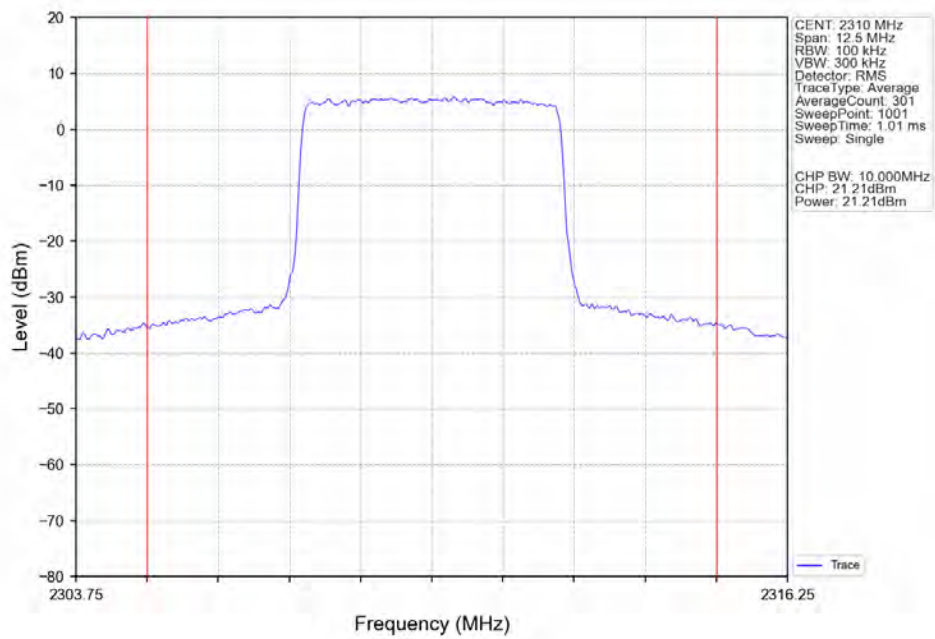
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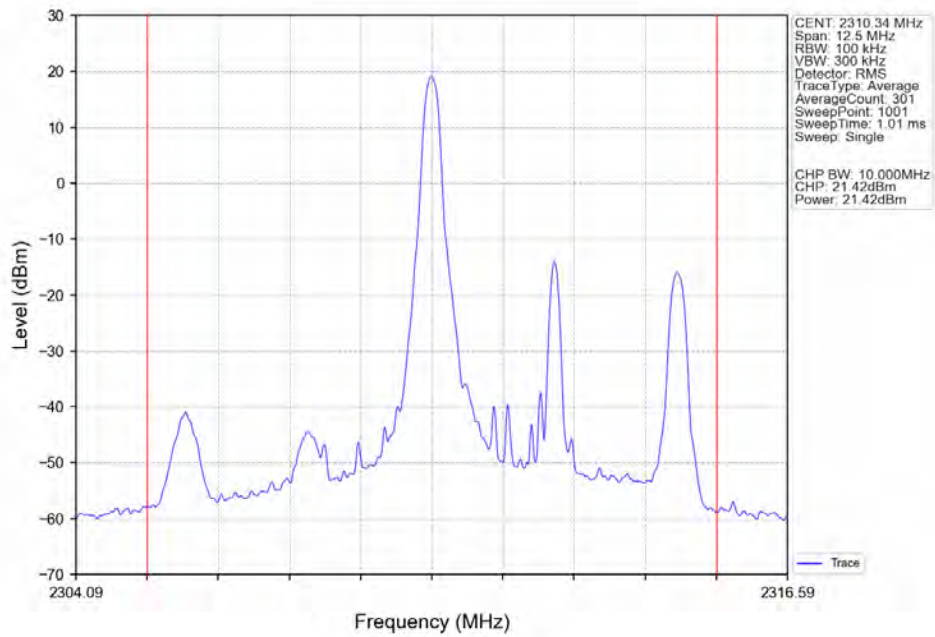
Band30 5MHz 64QAM MCH 2310MHz RB 12_13 NTNV



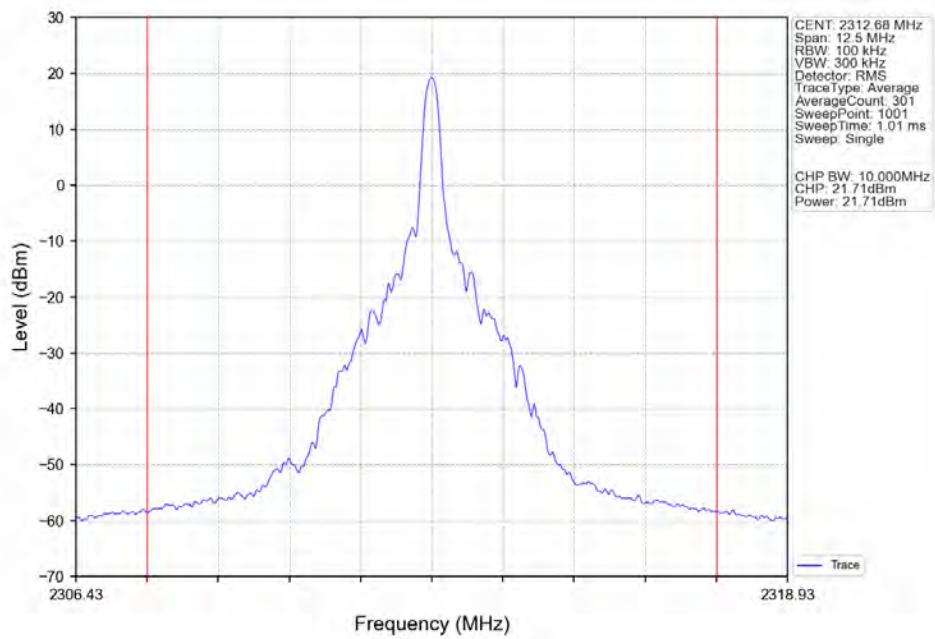
Band30 5MHz 64QAM MCH 2310MHz RB 25 0 NTNV



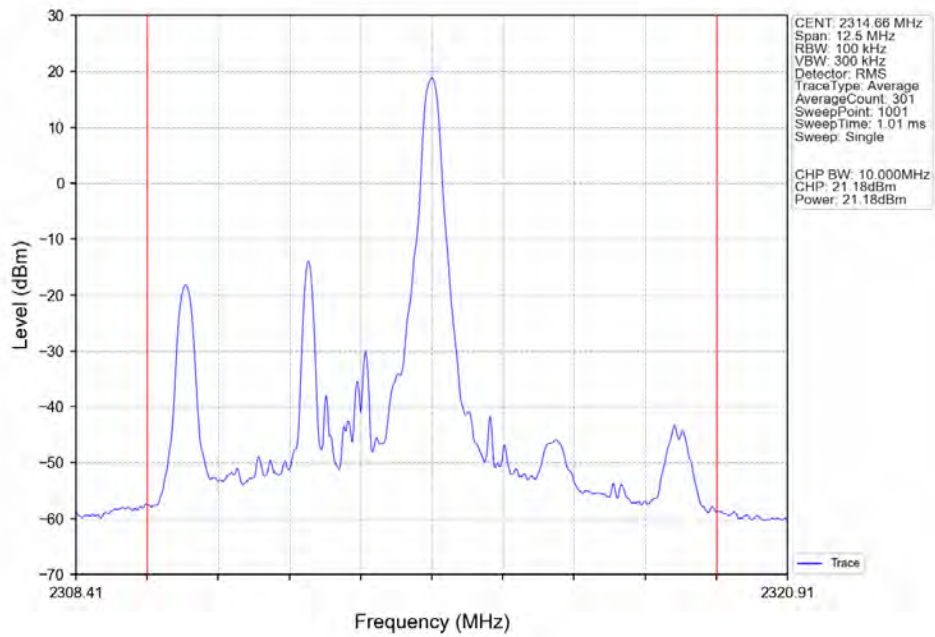
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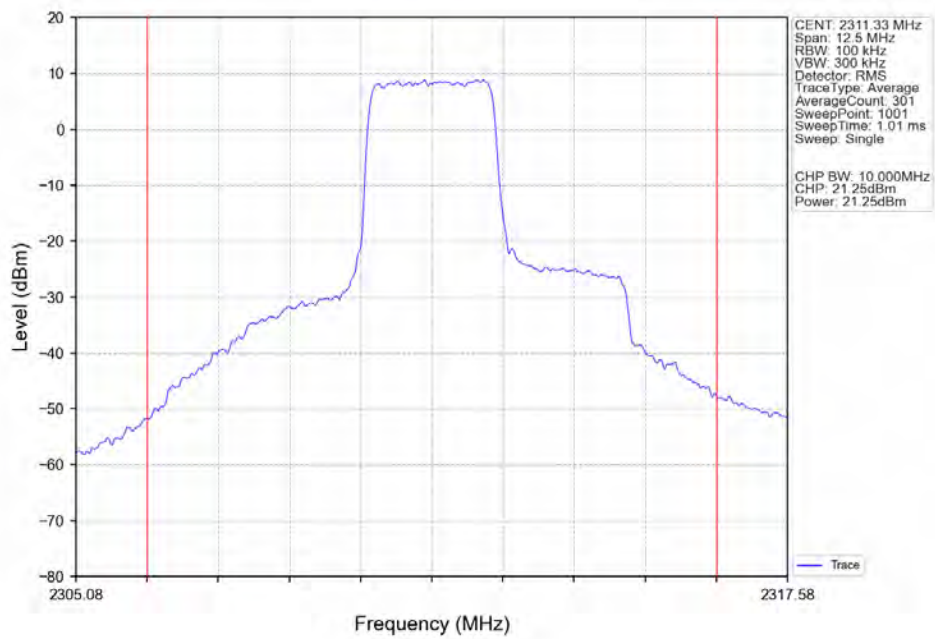
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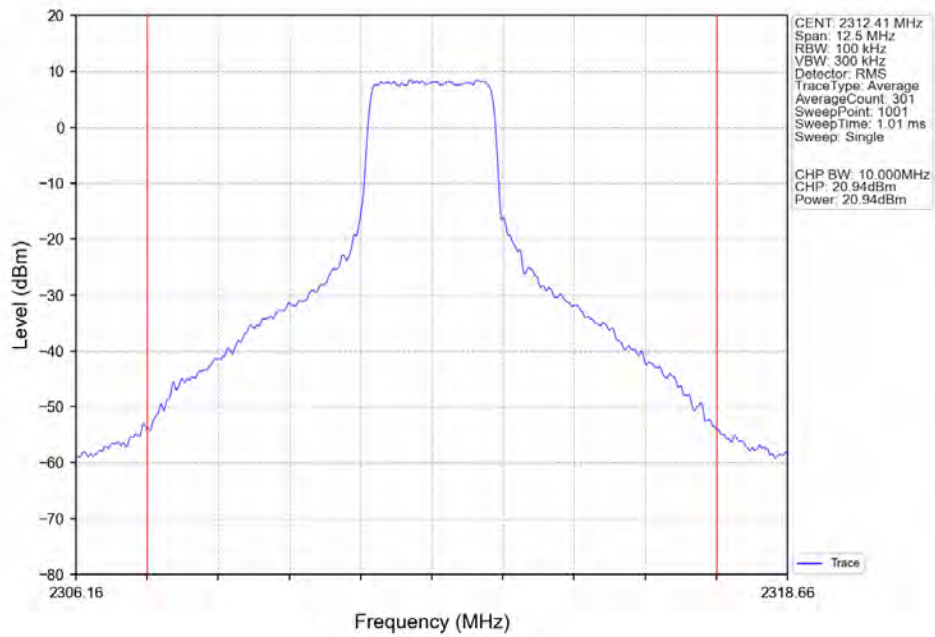
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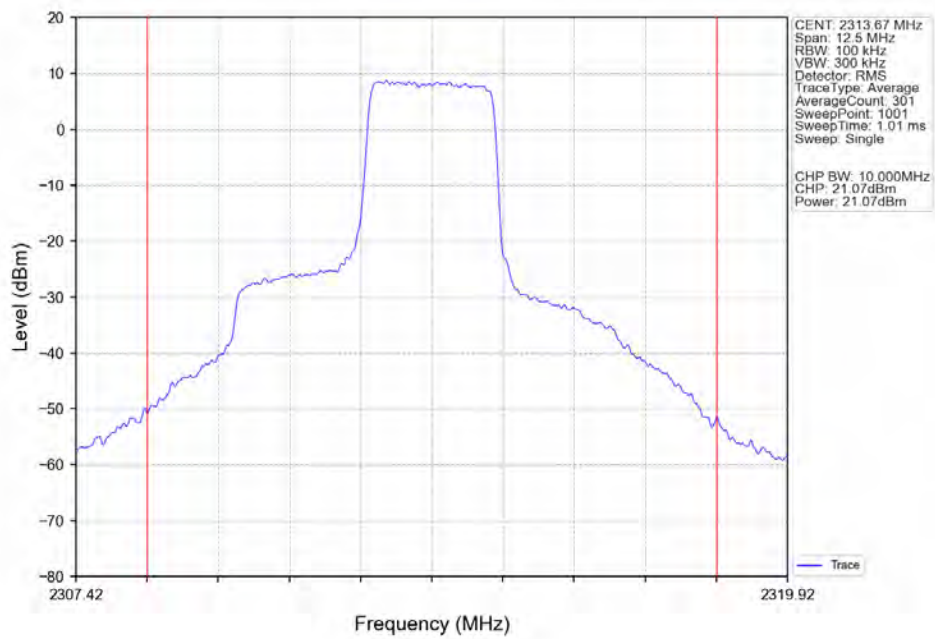
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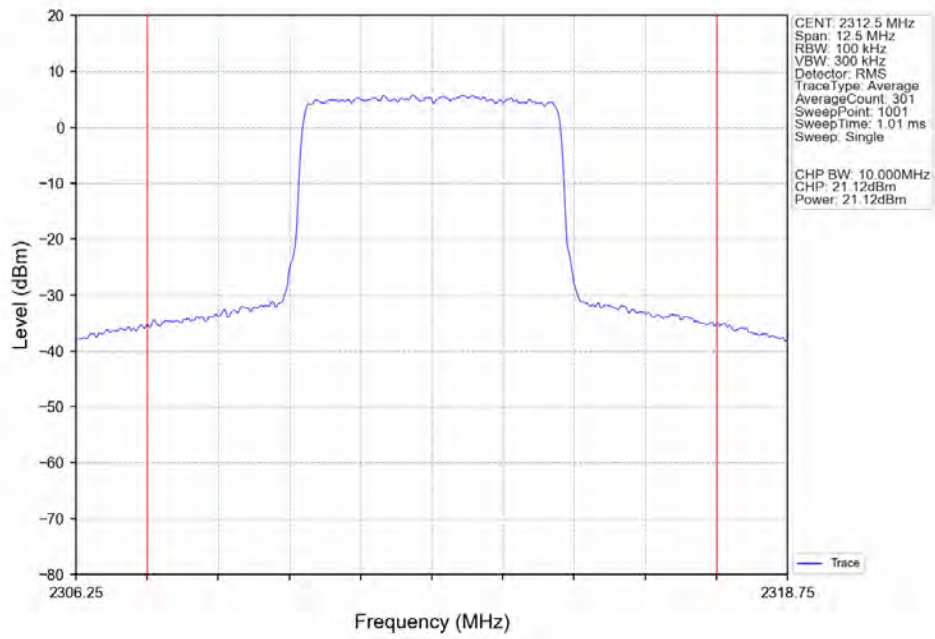
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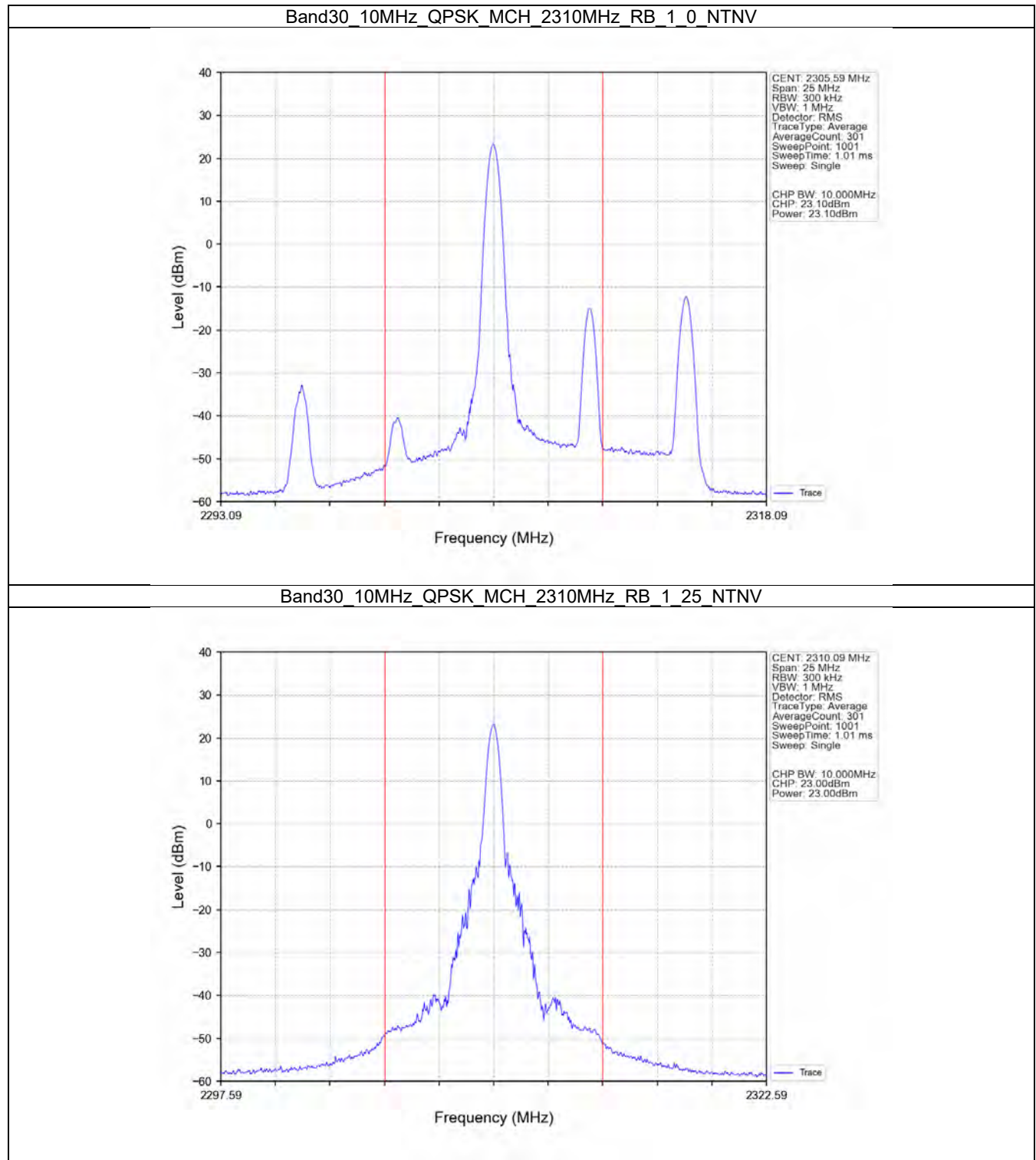
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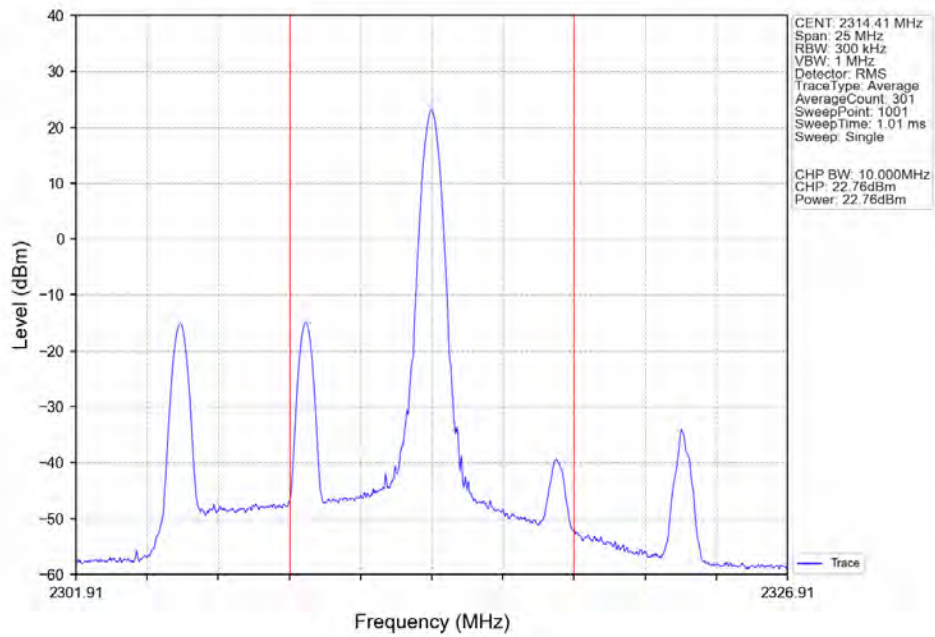
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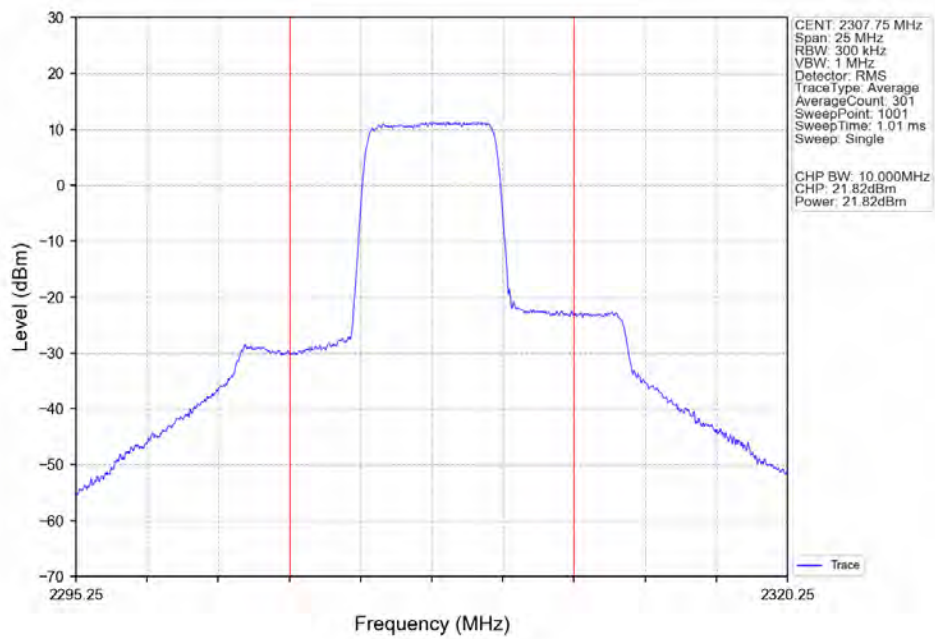
1.2.2 B30_10MHz_EIRP/10MHz



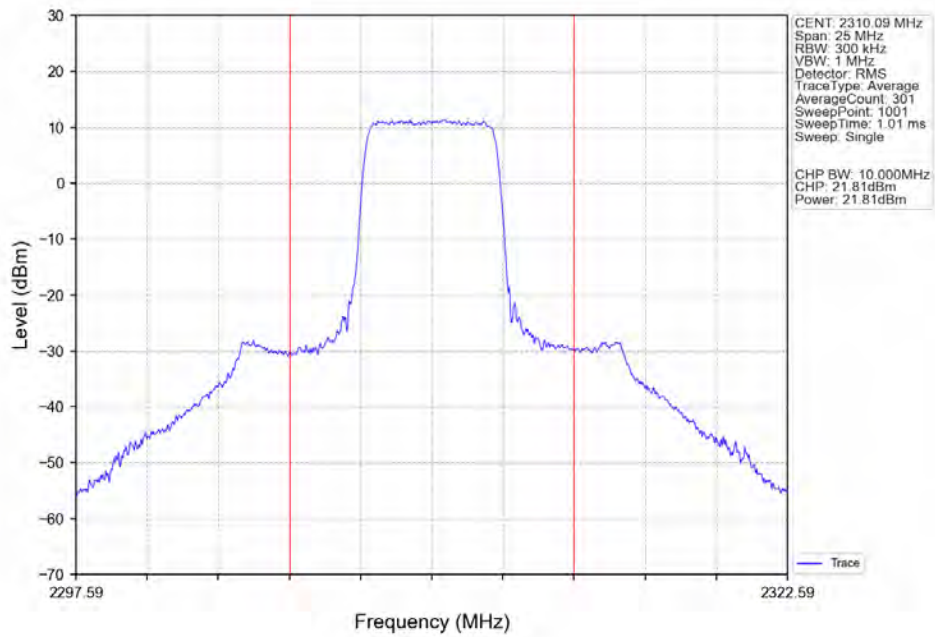
Band30_10MHz_QPSK_MCH_2310MHz_RB_1_49_NTNV



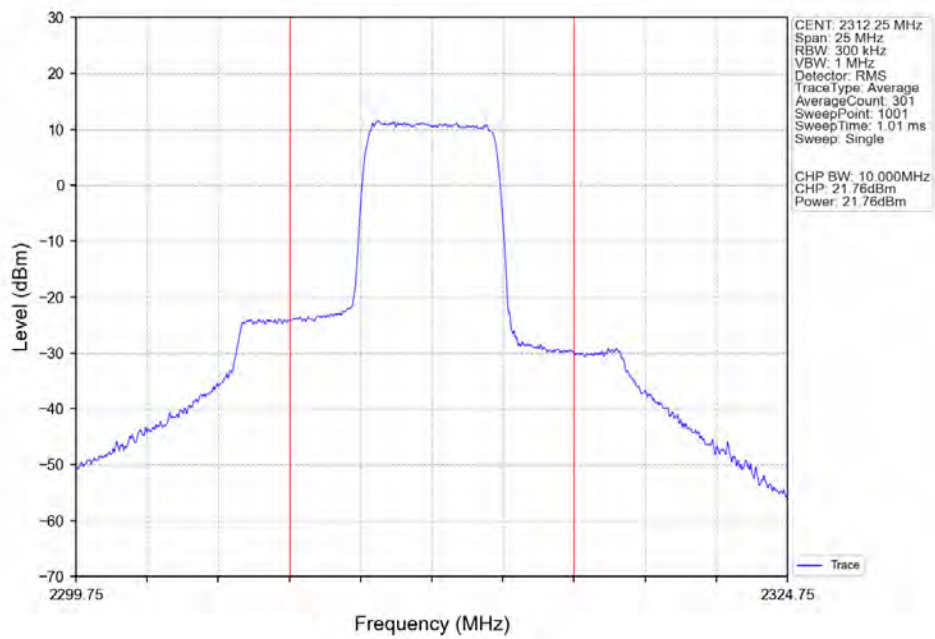
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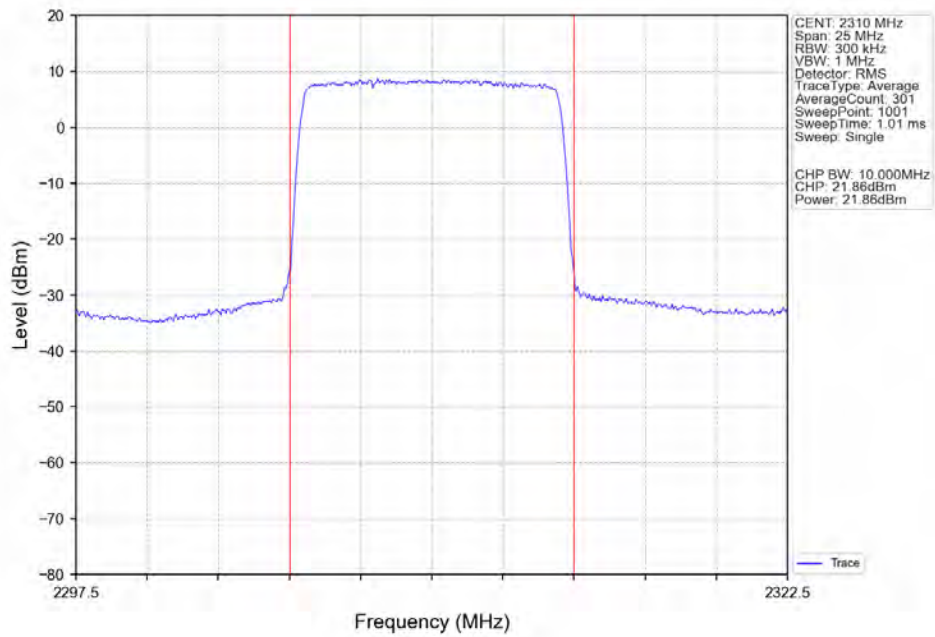
Band30_10MHz_QPSK_MCH_2310MHz_RB_25_13_NTNV



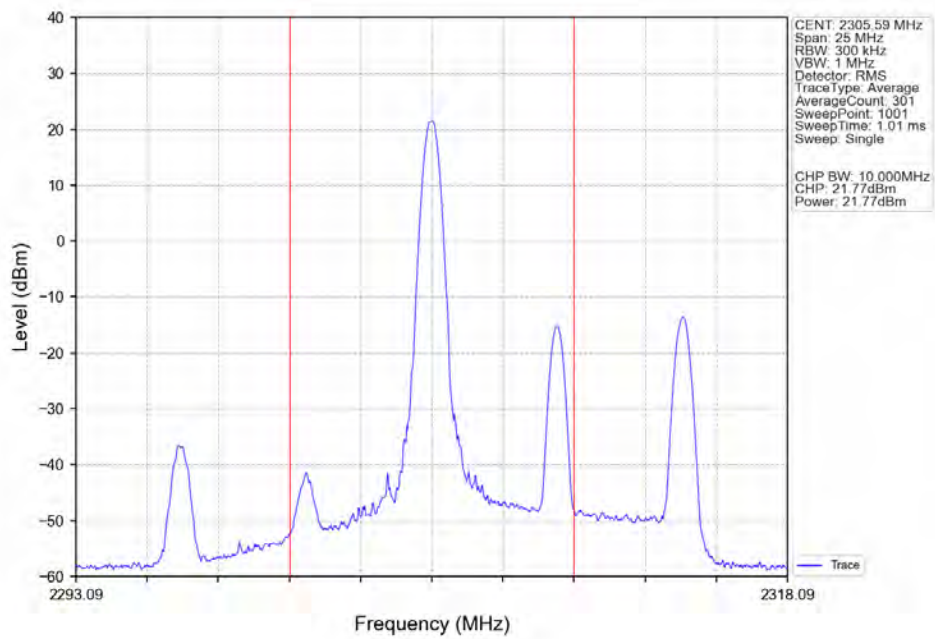
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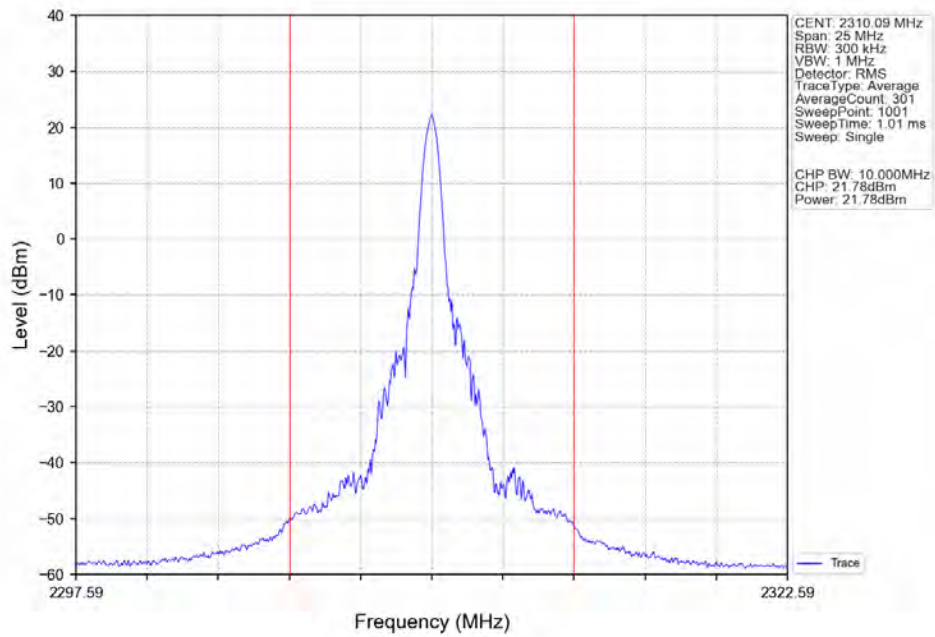
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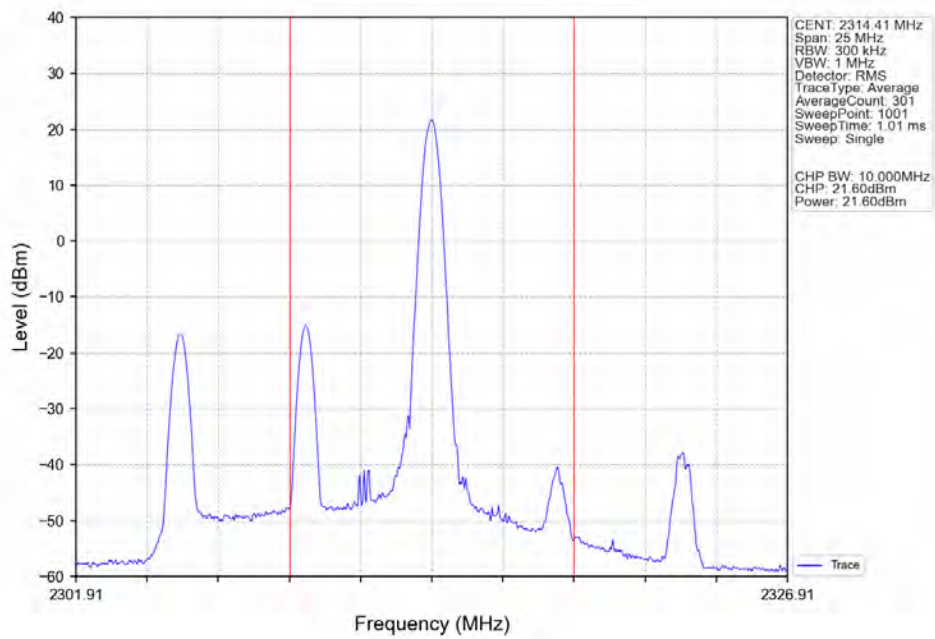
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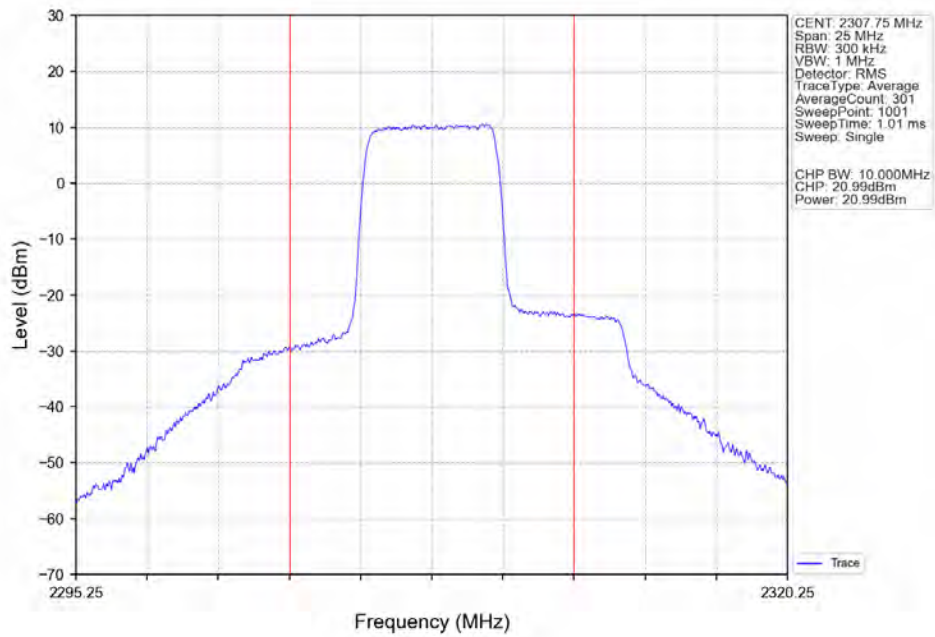
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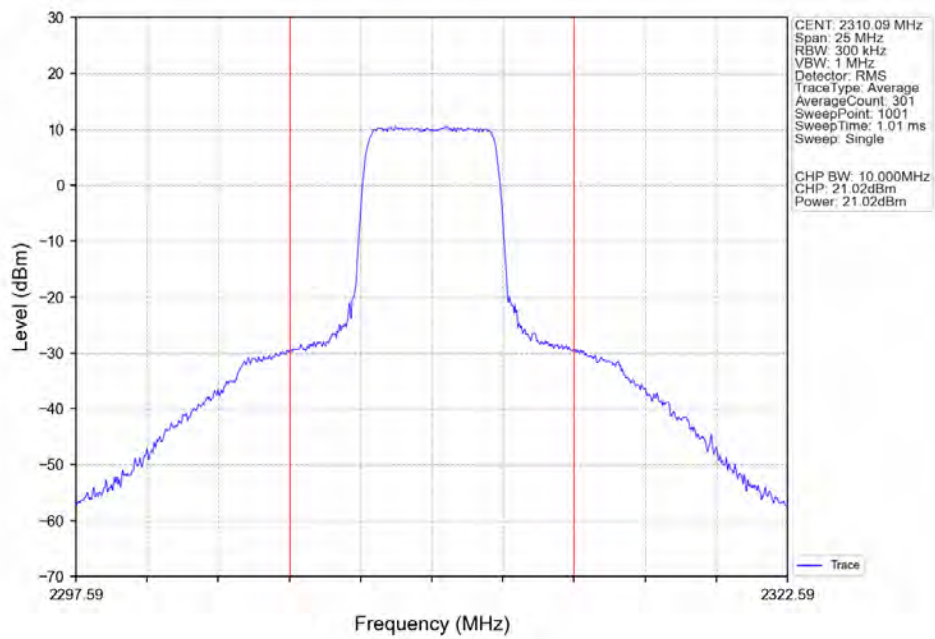
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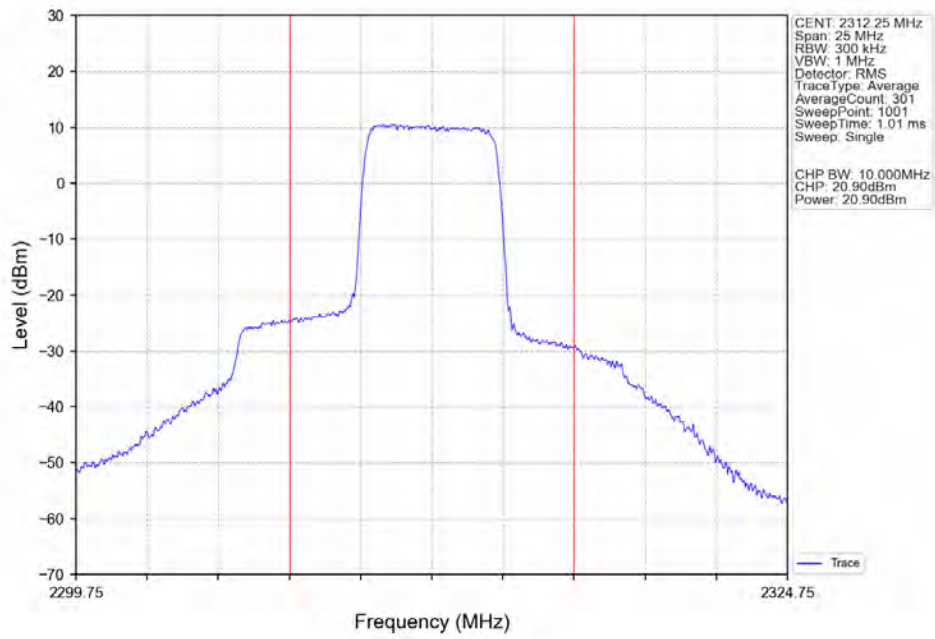
Band30_10MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



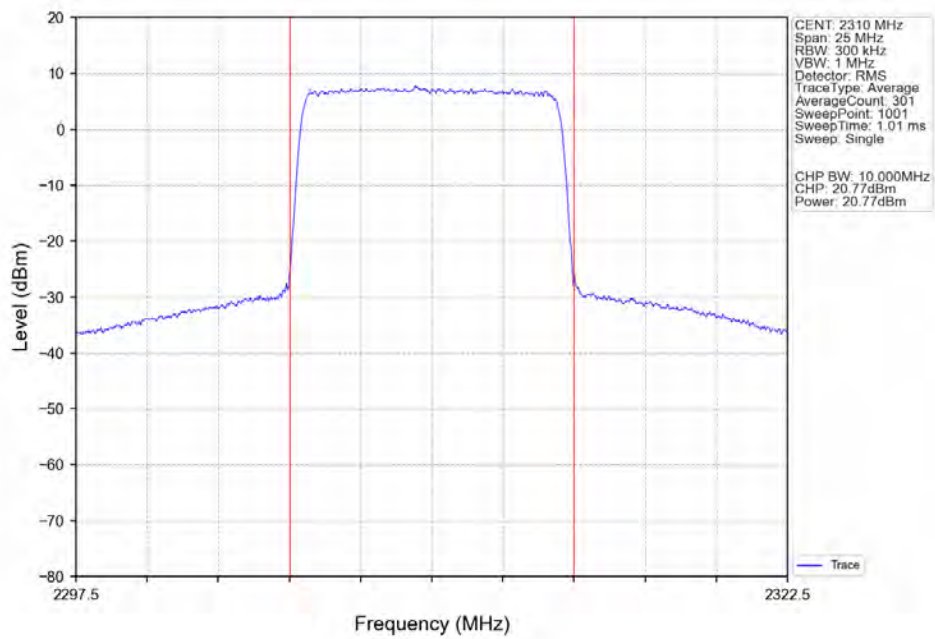
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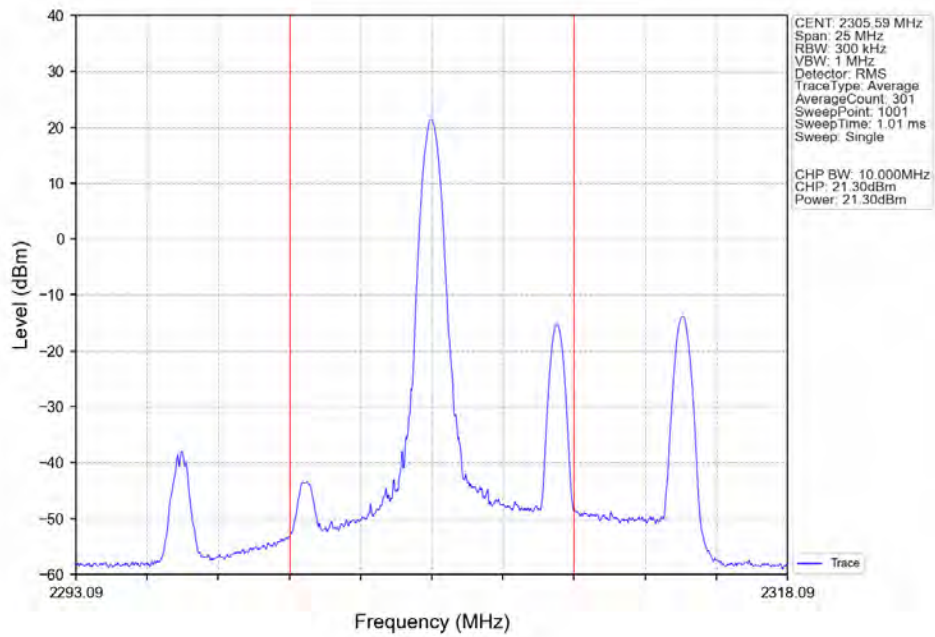
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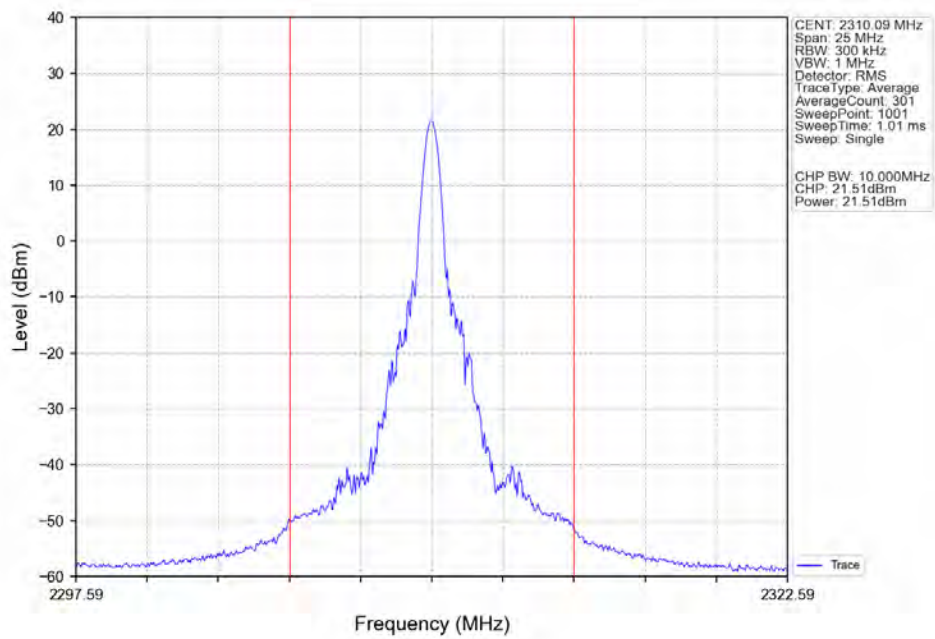
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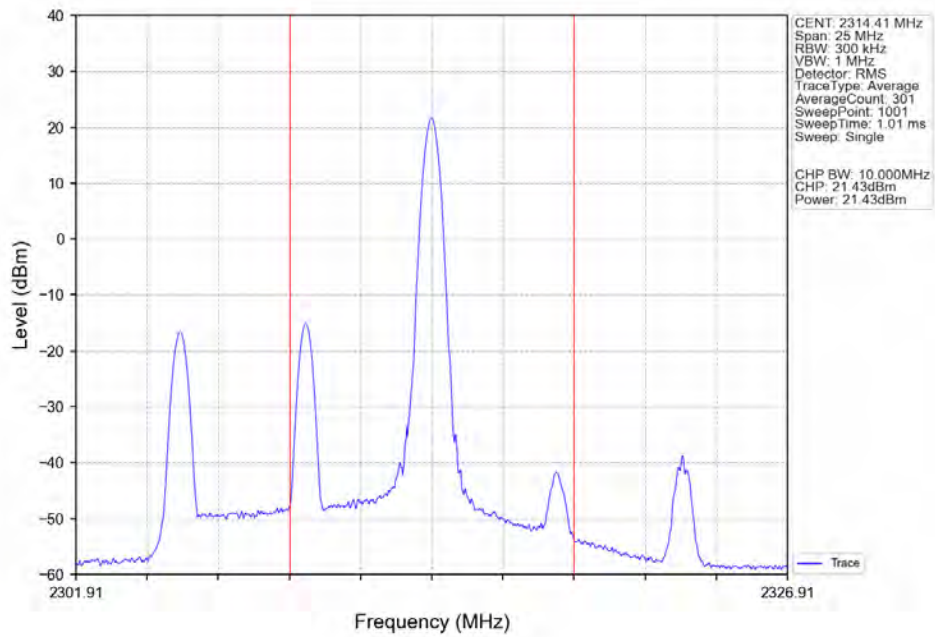
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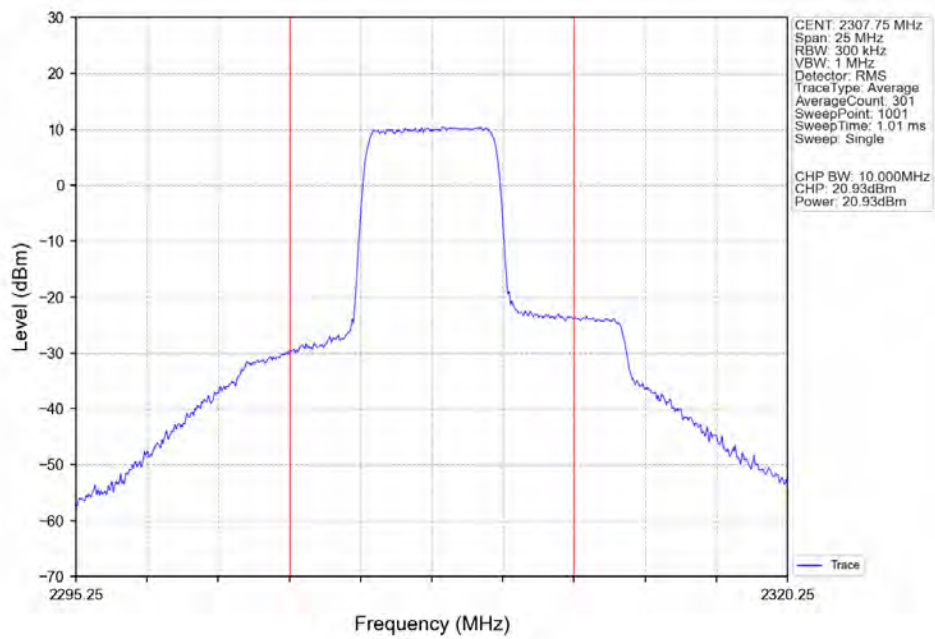
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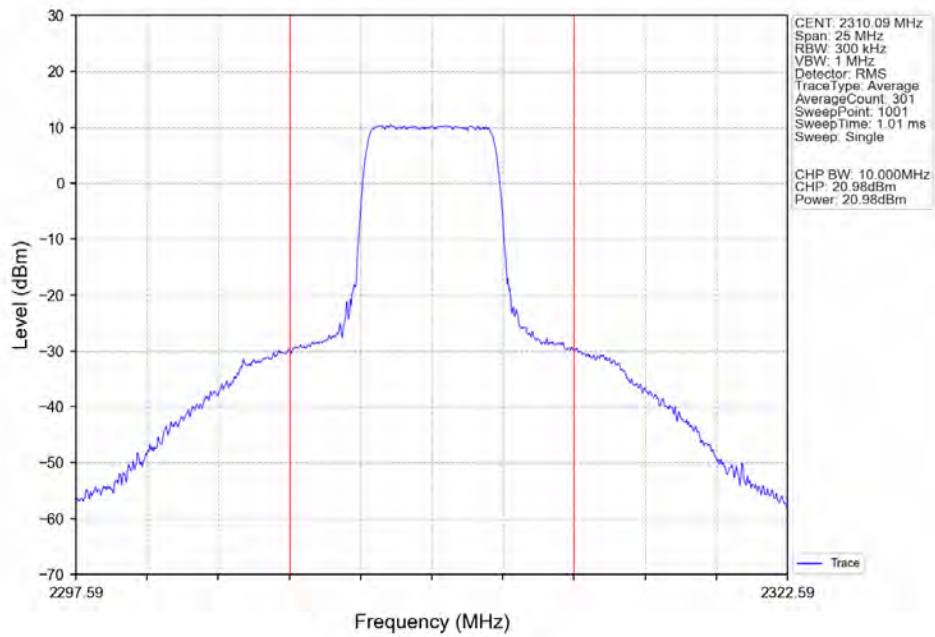
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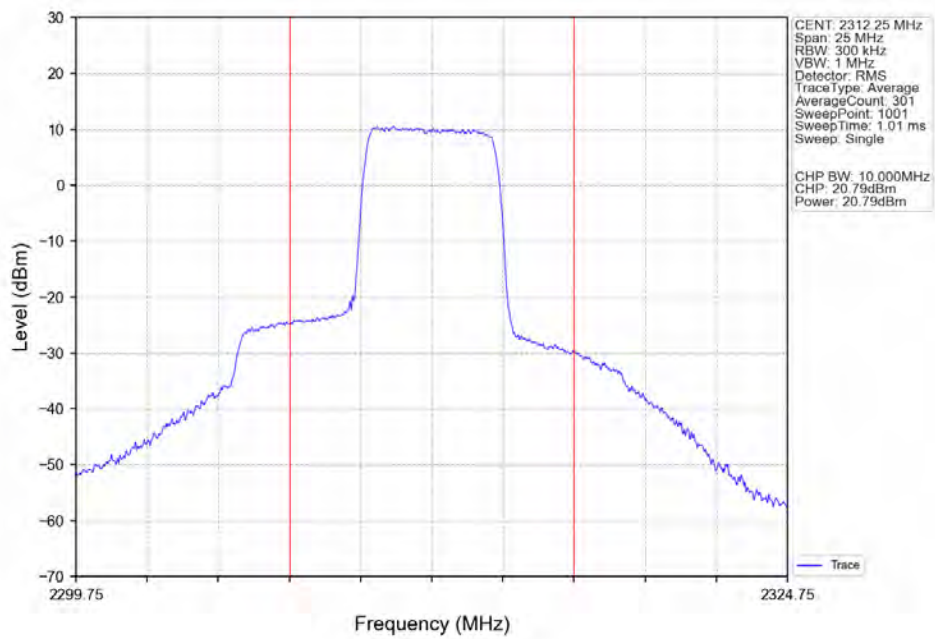
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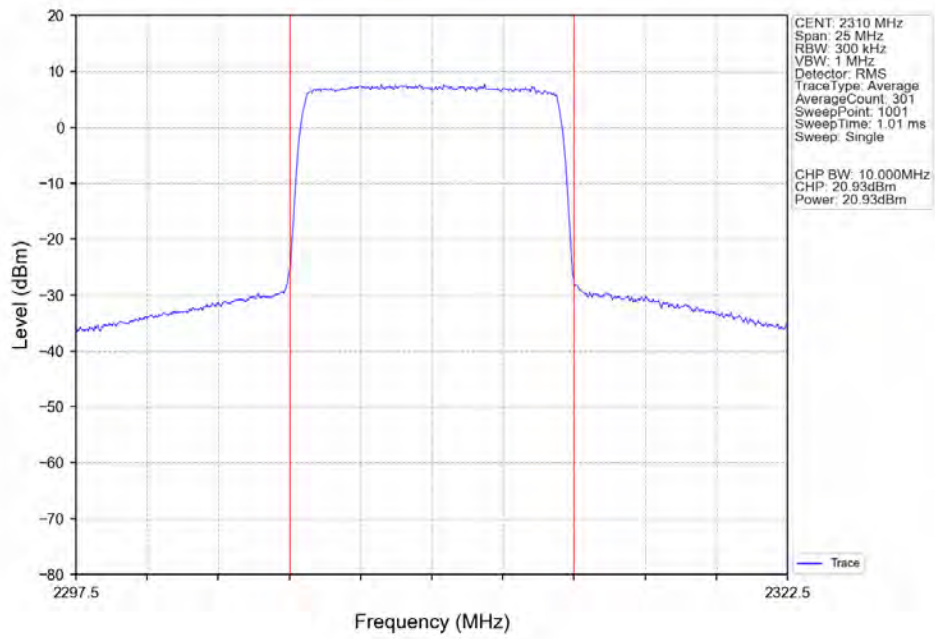
Band30_10MHz_64QAM_MCH_2310MHz_RB_25_13_NTNV



Band30_10MHz_64QAM_MCH_2310MHz_RB_25_25_NTNV



Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



2. Frequency Stability

2.1 Test Result

2.1.1 B30_5MHz

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	20.4	3.900	0.0017	-2.5 to 2.5	Pass
					24	4.600	0.0020	-2.5 to 2.5	Pass
					27.6	2.500	0.0011	-2.5 to 2.5	Pass
				-30	24	1.800	0.0008	-2.5 to 2.5	Pass
				-20	24	4.500	0.0020	-2.5 to 2.5	Pass
				-10	24	3.600	0.0016	-2.5 to 2.5	Pass
				0	24	2.800	0.0012	-2.5 to 2.5	Pass
				10	24	1.000	0.0004	-2.5 to 2.5	Pass
				30	24	2.500	0.0011	-2.5 to 2.5	Pass
				40	24	5.200	0.0023	-2.5 to 2.5	Pass
				50	24	3.800	0.0016	-2.5 to 2.5	Pass
	2310	25	0	20	20.4	-3.800	-0.0016	-2.5 to 2.5	Pass
					24	-0.800	-0.0003	-2.5 to 2.5	Pass
					27.6	-7.500	-0.0032	-2.5 to 2.5	Pass
				-30	24	-0.400	-0.0002	-2.5 to 2.5	Pass
				-20	24	-0.900	-0.0004	-2.5 to 2.5	Pass
				-10	24	-5.200	-0.0023	-2.5 to 2.5	Pass
				0	24	-1.300	-0.0006	-2.5 to 2.5	Pass
				10	24	-0.300	-0.0001	-2.5 to 2.5	Pass
				30	24	-4.300	-0.0019	-2.5 to 2.5	Pass
				40	24	-1.300	-0.0006	-2.5 to 2.5	Pass
				50	24	-1.000	-0.0004	-2.5 to 2.5	Pass
	2312.5	25	0	20	20.4	0.600	0.0003	-2.5 to 2.5	Pass
					24	4.000	0.0017	-2.5 to 2.5	Pass
					27.6	-0.500	-0.0002	-2.5 to 2.5	Pass
				-30	24	2.100	0.0009	-2.5 to 2.5	Pass
				-20	24	2.300	0.0010	-2.5 to 2.5	Pass
				-10	24	4.100	0.0018	-2.5 to 2.5	Pass
				0	24	0.700	0.0003	-2.5 to 2.5	Pass
				10	24	-0.100	0.0000	-2.5 to 2.5	Pass
				30	24	-3.000	-0.0013	-2.5 to 2.5	Pass
				40	24	1.900	0.0008	-2.5 to 2.5	Pass
				50	24	3.300	0.0014	-2.5 to 2.5	Pass

2.1.2 B30_10MHz

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	20.4	-1.700	-0.0007	-2.5 to 2.5	Pass
					24	-2.600	-0.0011	-2.5 to 2.5	Pass
					27.6	2.100	0.0009	-2.5 to 2.5	Pass
				-30	24	-3.600	-0.0016	-2.5 to 2.5	Pass
				-20	24	-4.500	-0.0019	-2.5 to 2.5	Pass
				-10	24	0.500	0.0002	-2.5 to 2.5	Pass
				0	24	-1.300	-0.0006	-2.5 to 2.5	Pass
				10	24	-2.600	-0.0011	-2.5 to 2.5	Pass
				30	24	-2.700	-0.0012	-2.5 to 2.5	Pass
				40	24	-0.700	-0.0003	-2.5 to 2.5	Pass
				50	24	-3.600	-0.0016	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band30_OBW

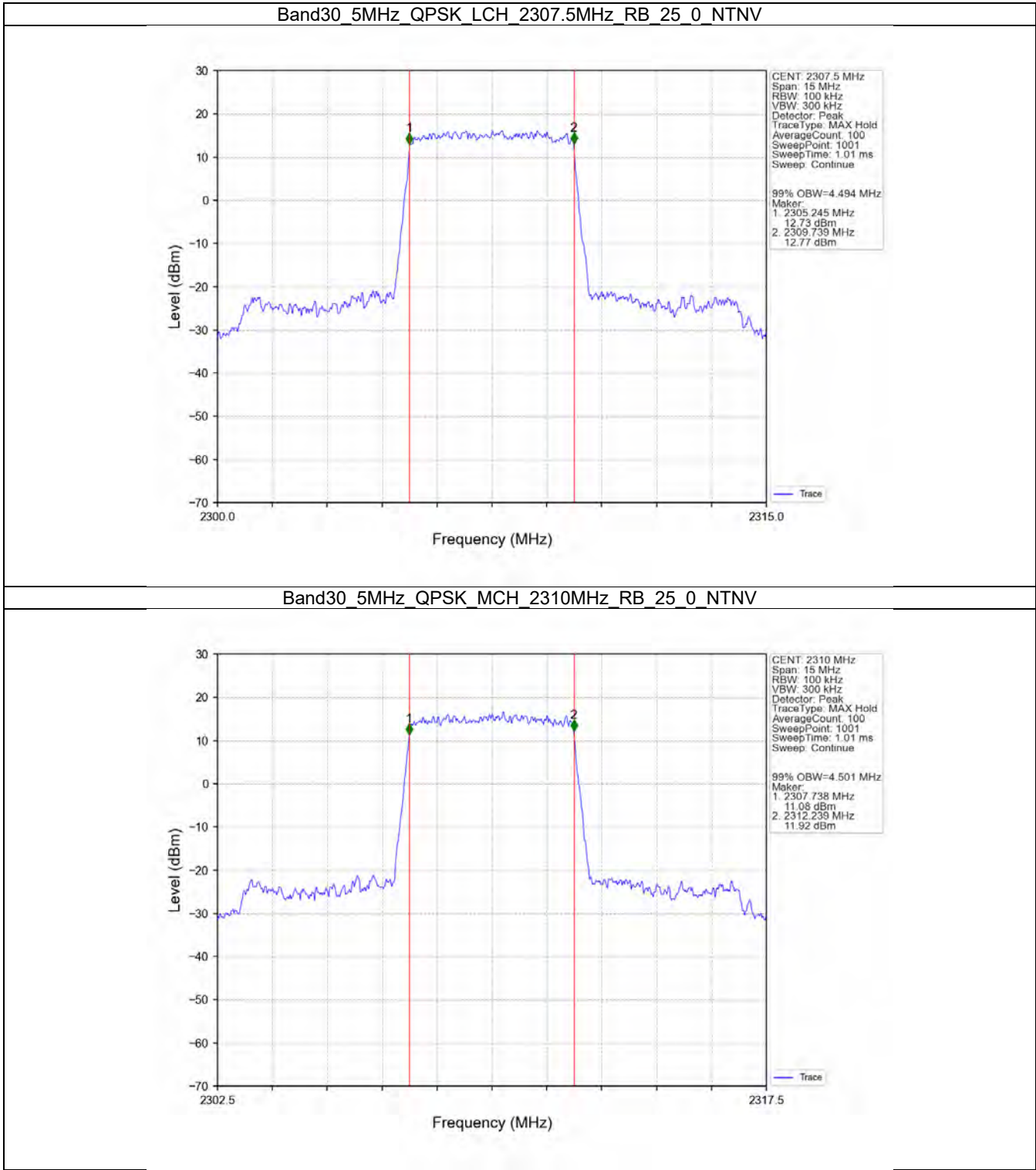
Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	4.494	/	Pass
		2310	25	0	4.501	/	Pass
		2312.5	25	0	4.495	/	Pass
	16QAM	2307.5	25	0	4.501	/	Pass
		2310	25	0	4.494	/	Pass
		2312.5	25	0	4.504	/	Pass
	64QAM	2307.5	25	0	4.497	/	Pass
		2310	25	0	4.499	/	Pass
		2312.5	25	0	4.499	/	Pass
10	QPSK	2310	50	0	8.985	/	Pass
	16QAM	2310	50	0	8.969	/	Pass
	64QAM	2310	50	0	8.999	/	Pass

3.1.2 Band30_XDB

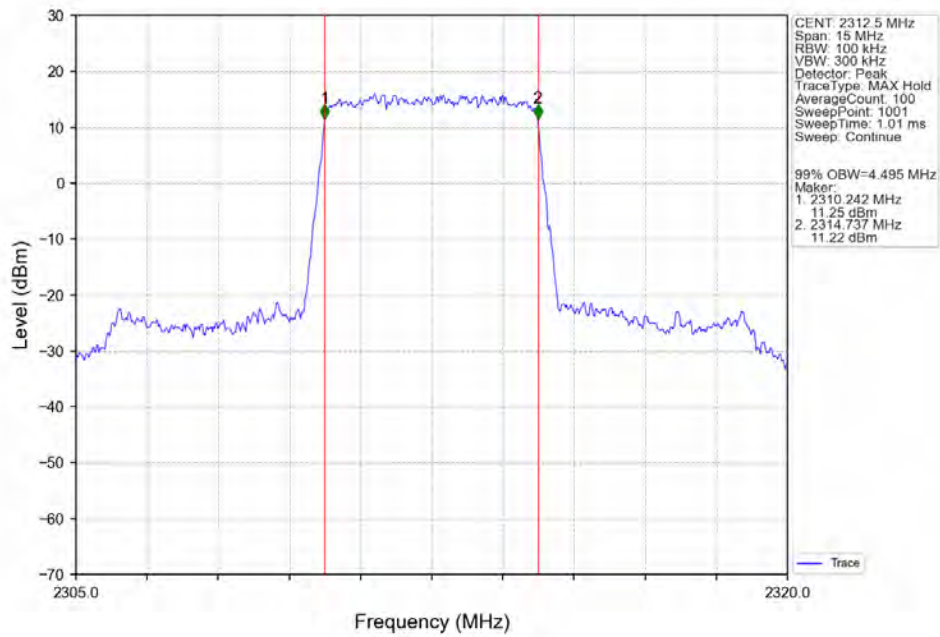
Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	5.018	/	Pass
		2310	25	0	5.014	/	Pass
		2312.5	25	0	5.045	/	Pass
	16QAM	2307.5	25	0	5.020	/	Pass
		2310	25	0	5.050	/	Pass
		2312.5	25	0	5.001	/	Pass
	64QAM	2307.5	25	0	4.959	/	Pass
		2310	25	0	4.985	/	Pass
		2312.5	25	0	4.975	/	Pass
10	QPSK	2310	50	0	9.907	/	Pass
	16QAM	2310	50	0	9.828	/	Pass
	64QAM	2310	50	0	9.841	/	Pass

3.2 Test Graph

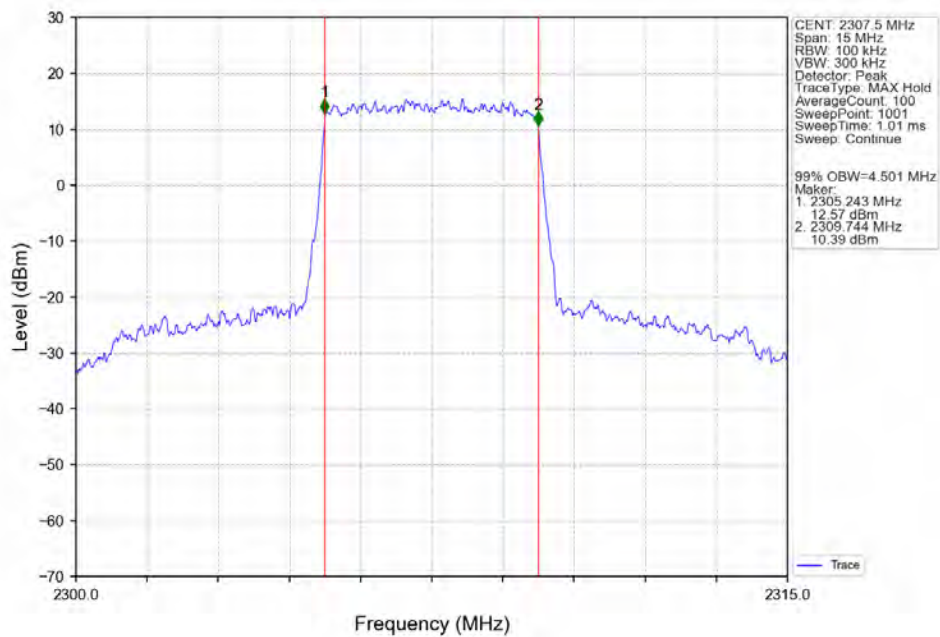
3.2.1 Band30_OBW



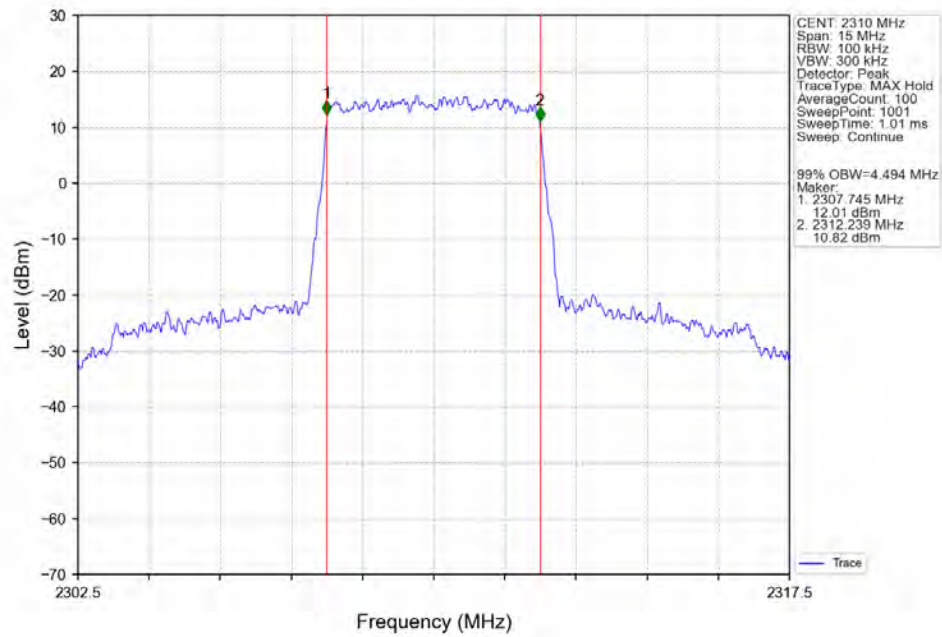
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



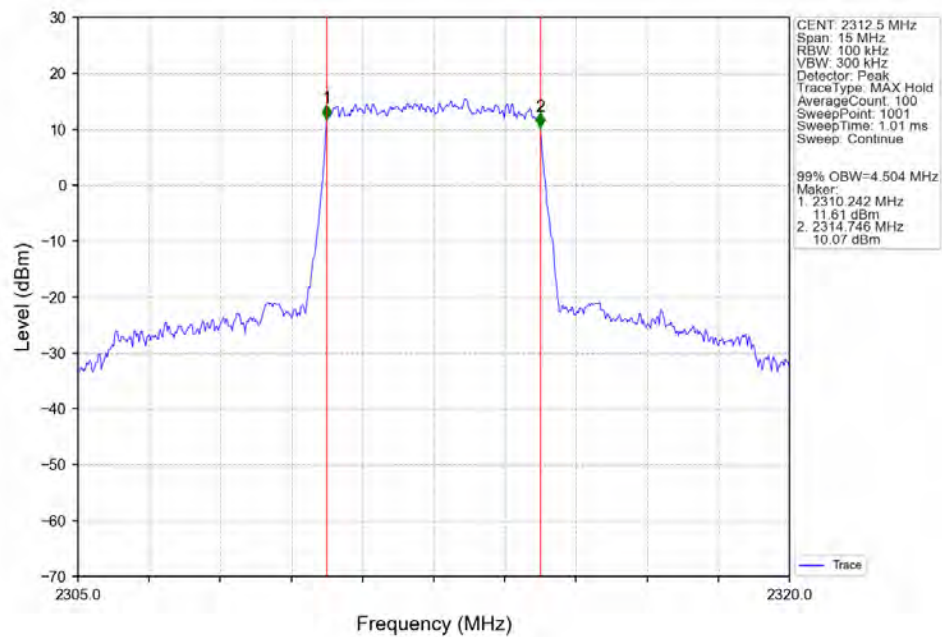
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



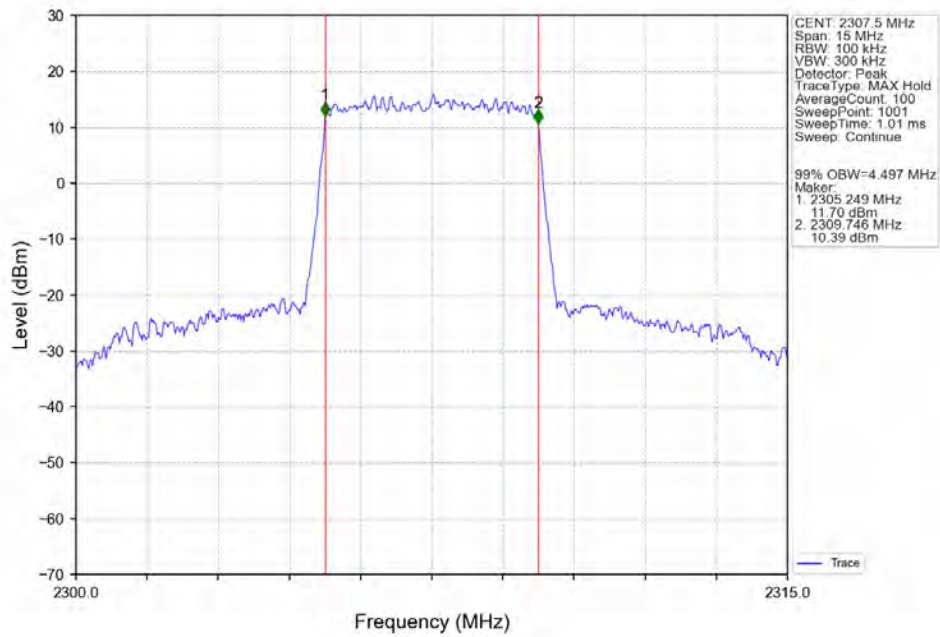
Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



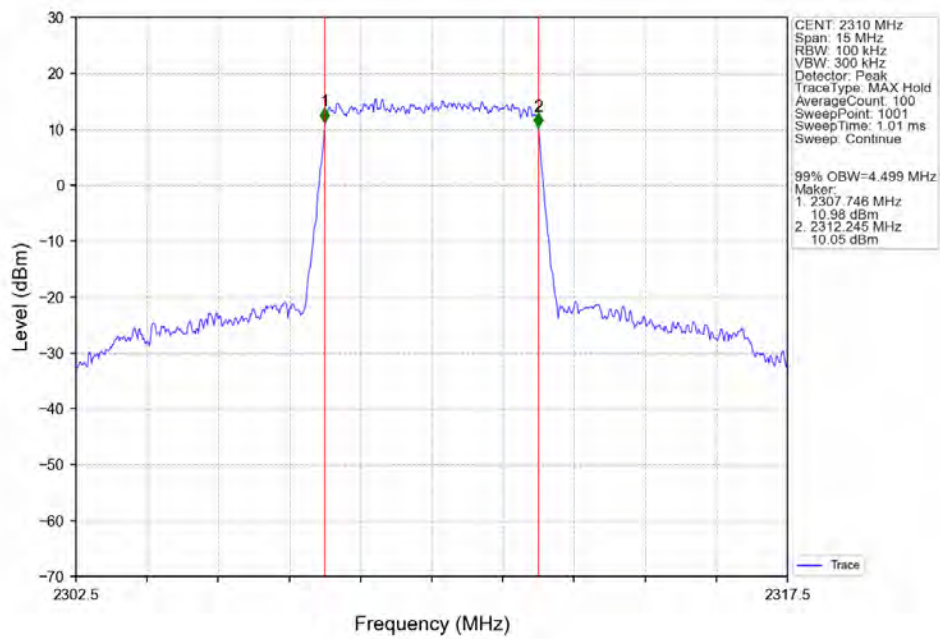
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



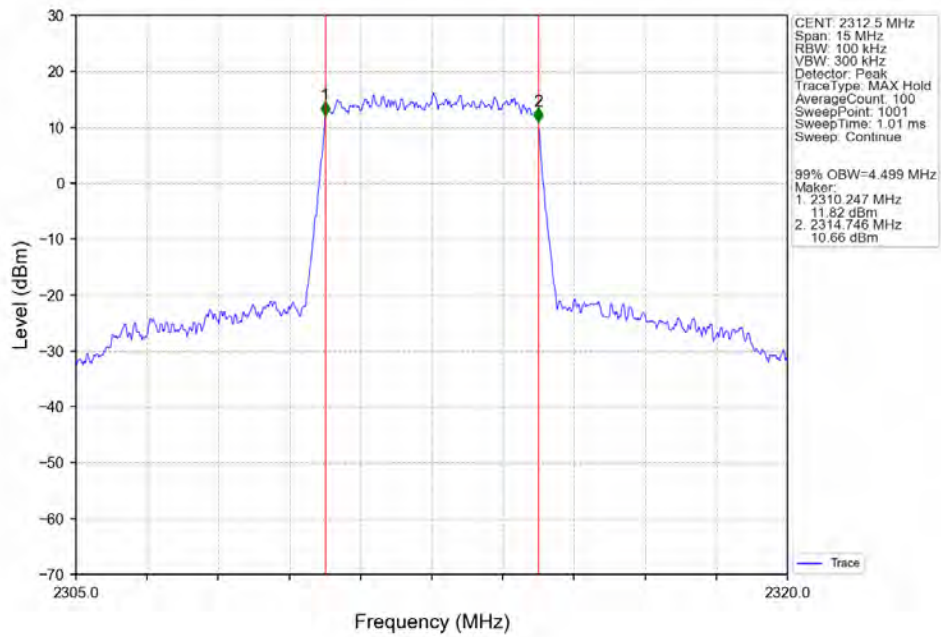
Band30_5MHz_64QAM_LCH_2307.5MHz_RB_25_0_NTNV



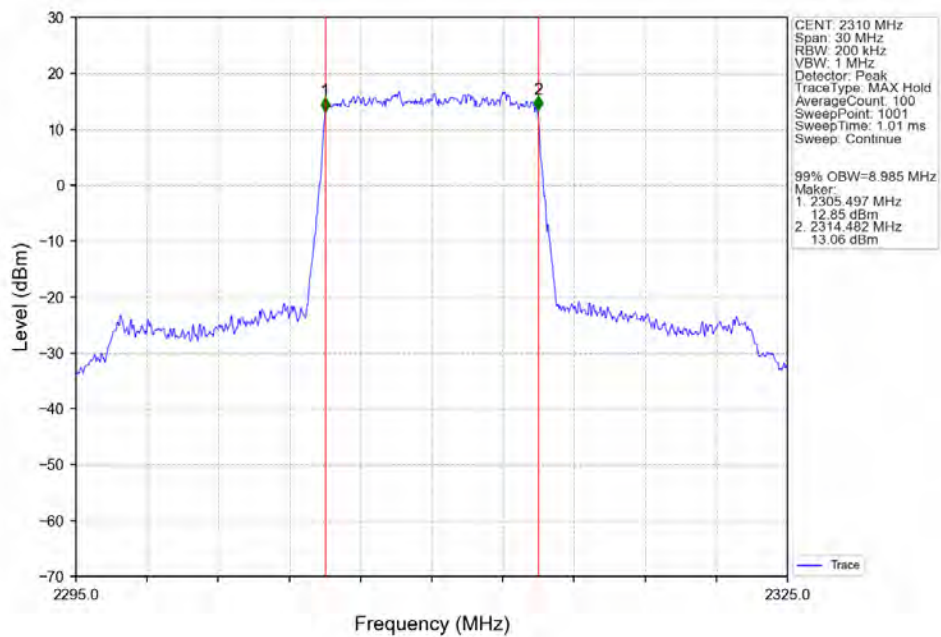
Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



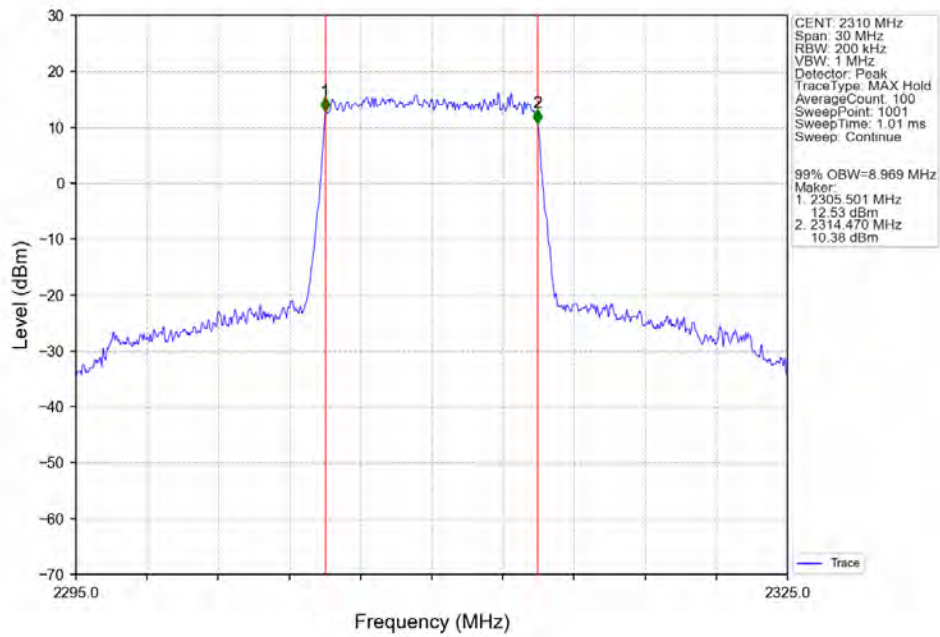
Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV



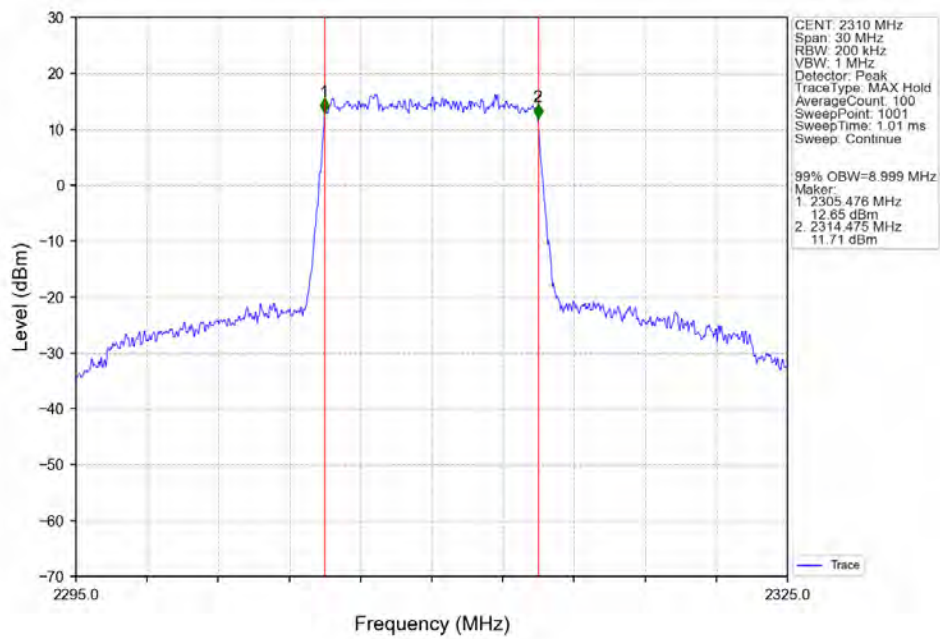
Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



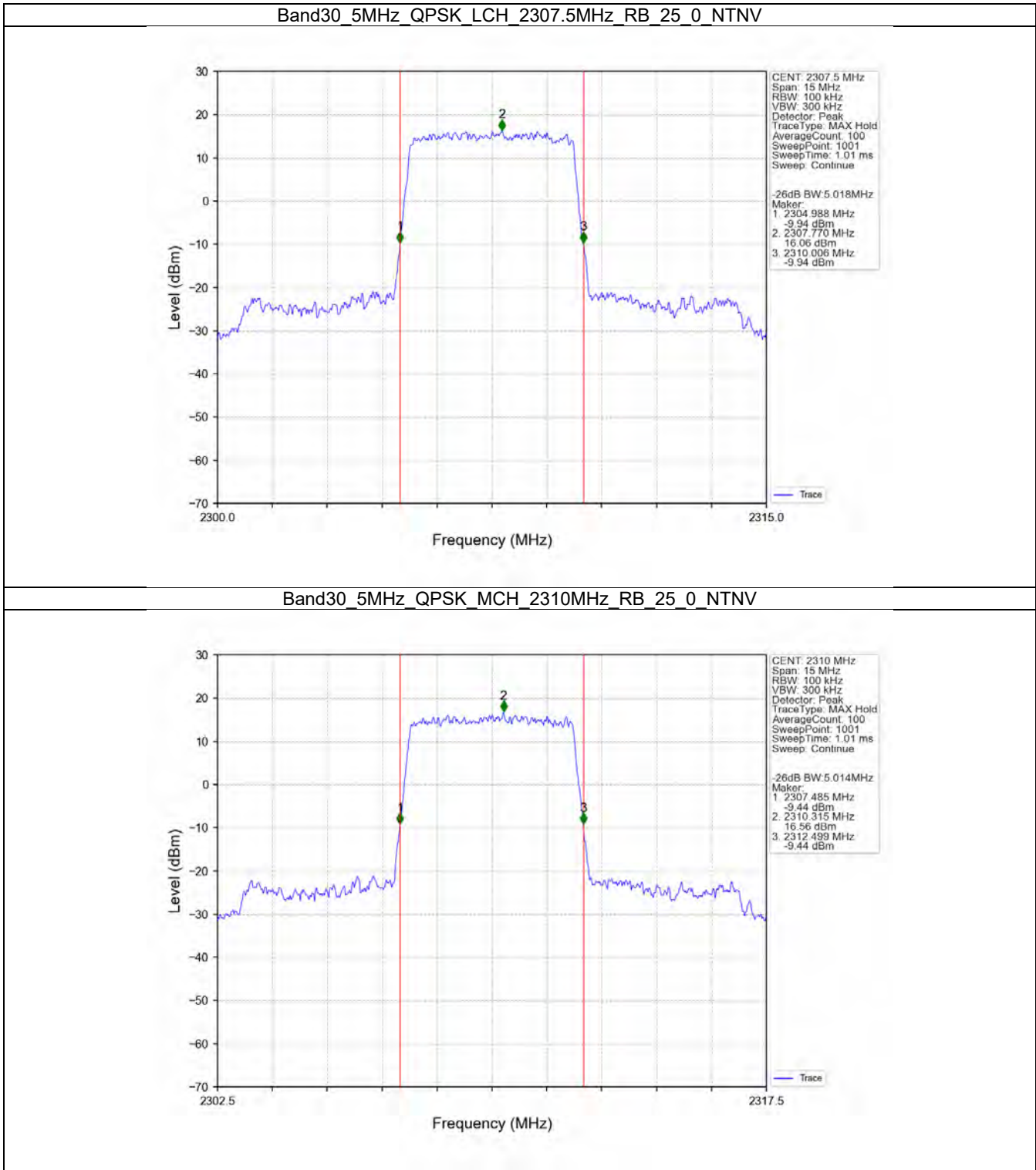
Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



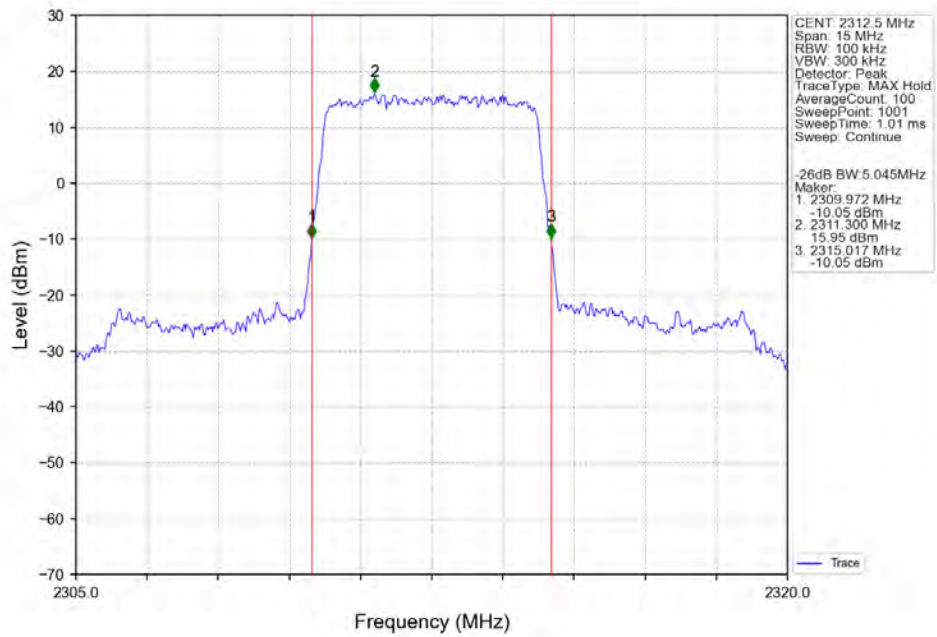
Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



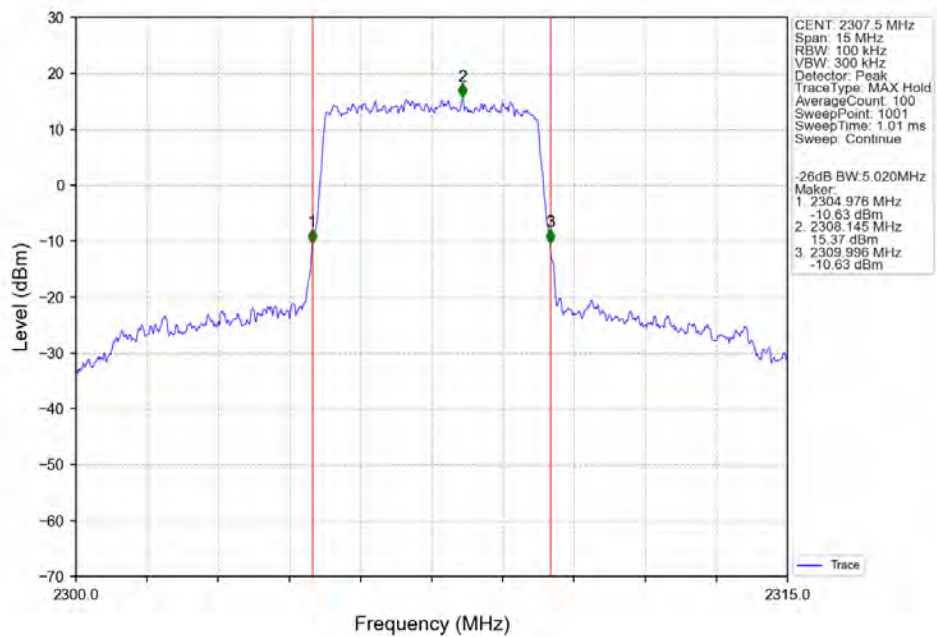
3.2.2 Band30_XDB



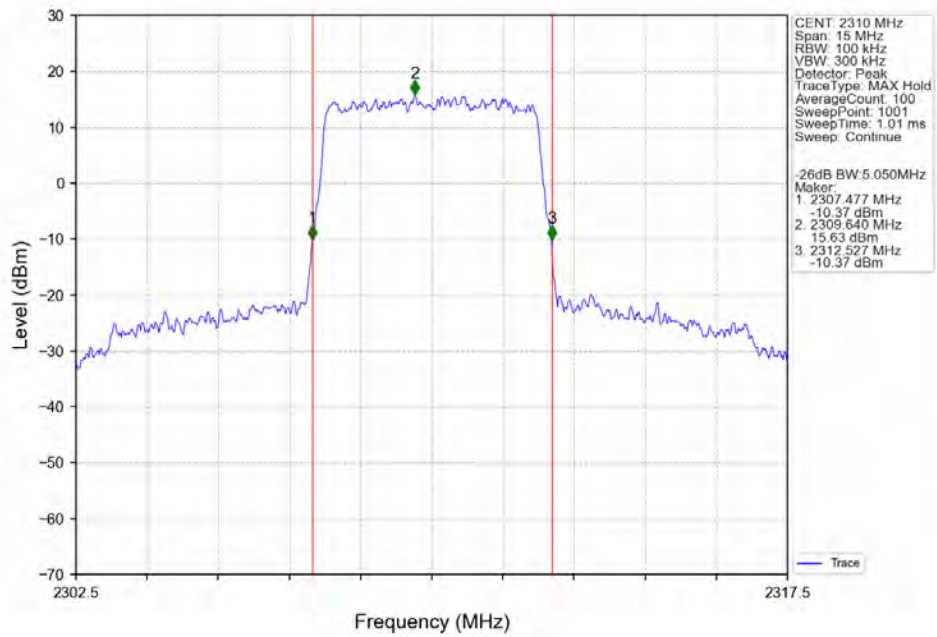
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



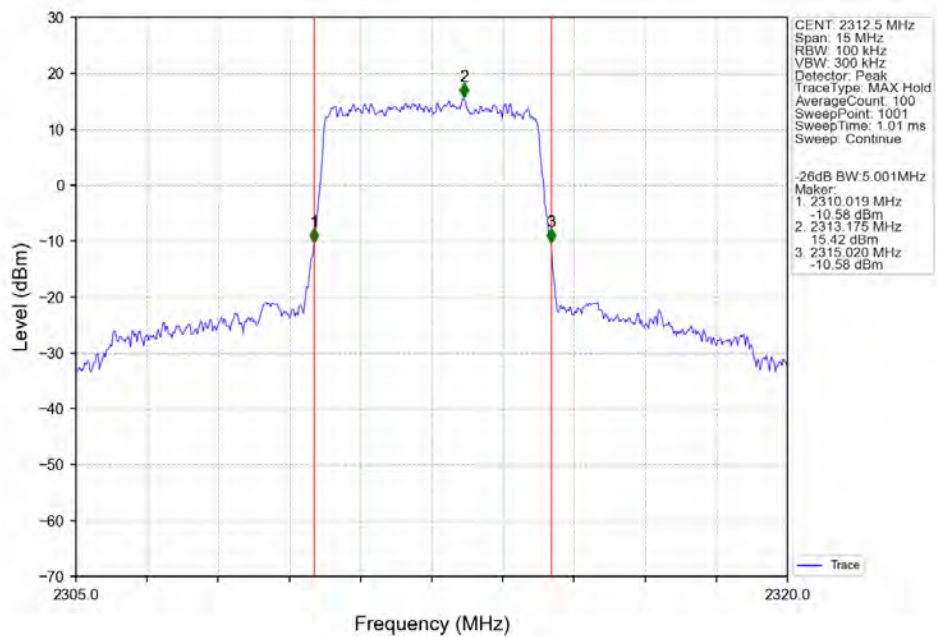
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



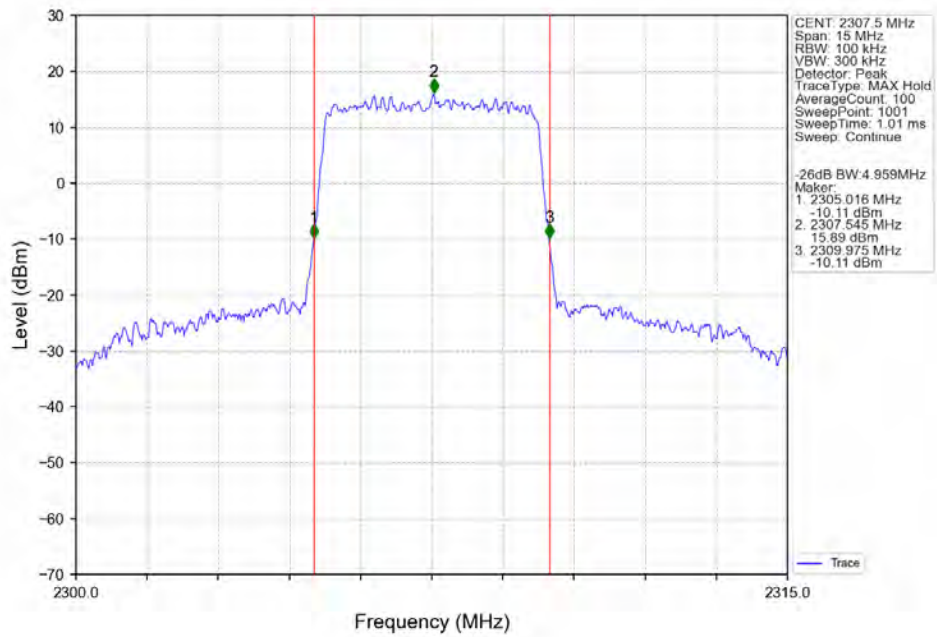
Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



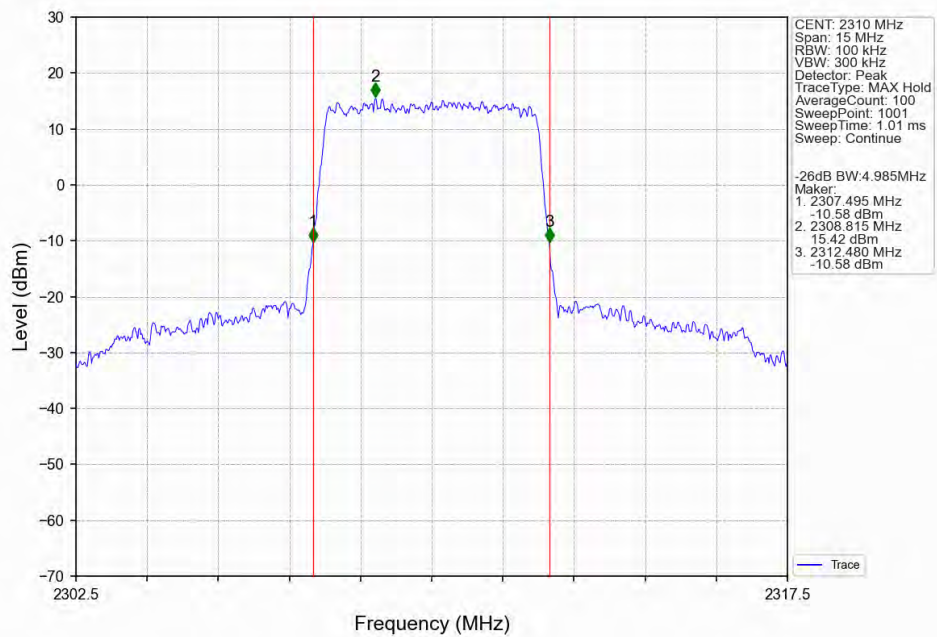
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



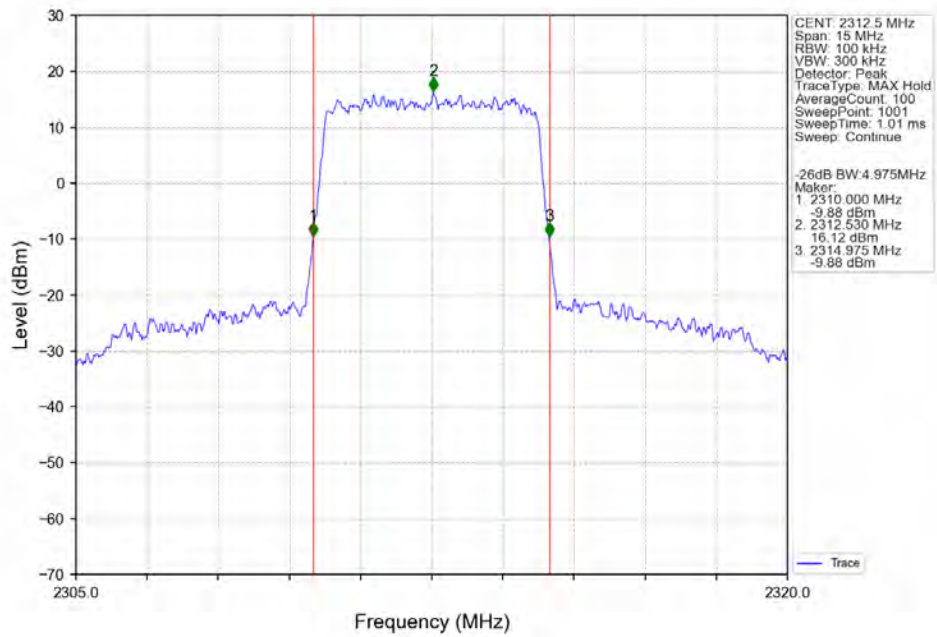
Band30_5MHz_64QAM_LCH_2307.5MHz_RB_25_0_NTNV



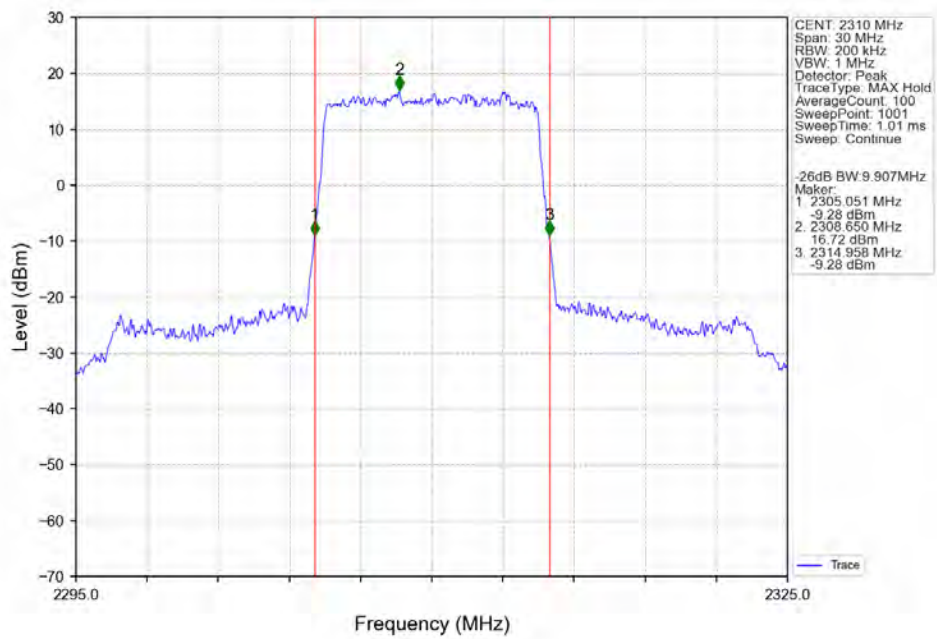
Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



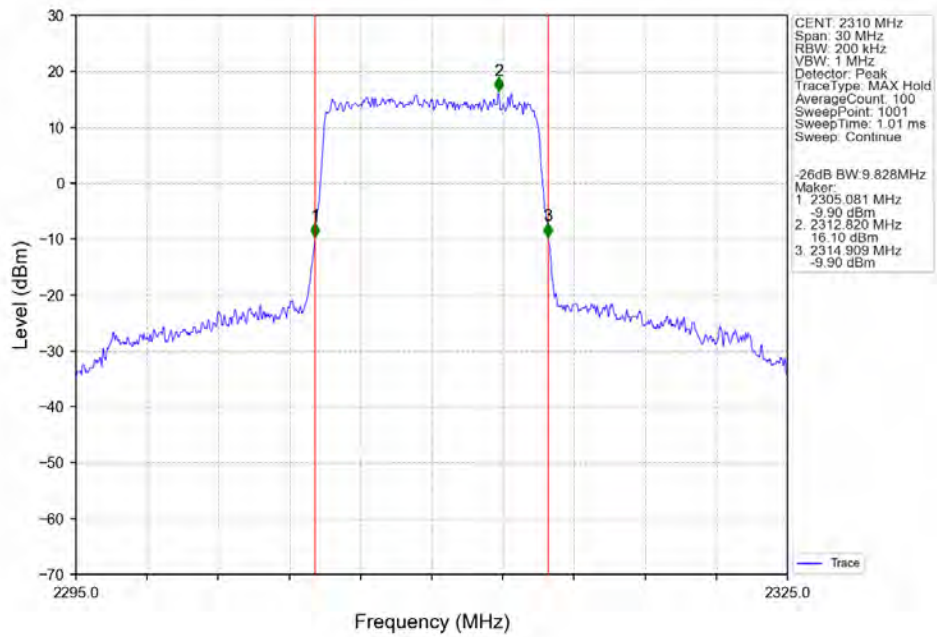
Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV



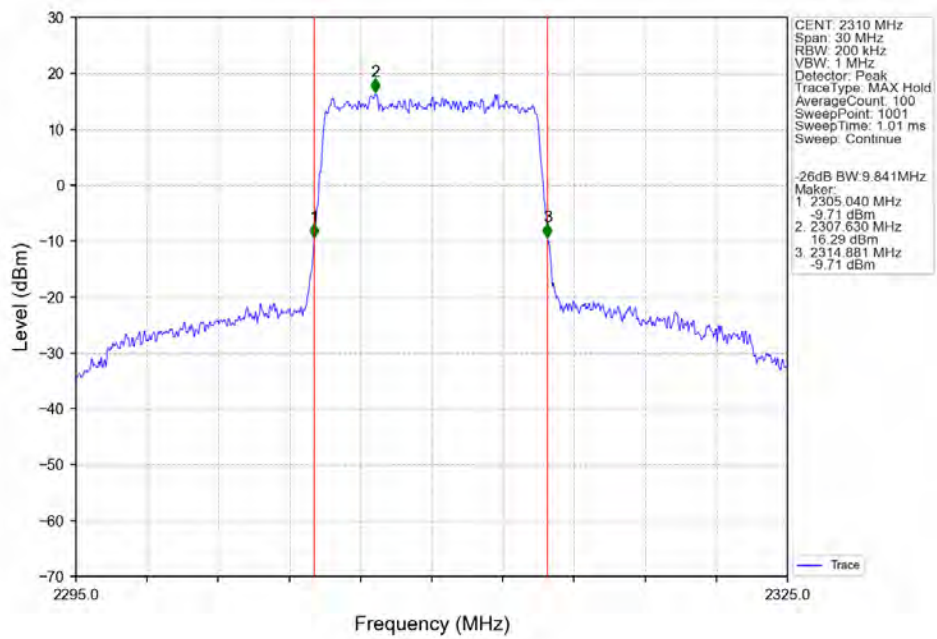
Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



4. Peak-Average Ratio

4.1 Test Result

4.1.1 B30_5MHz

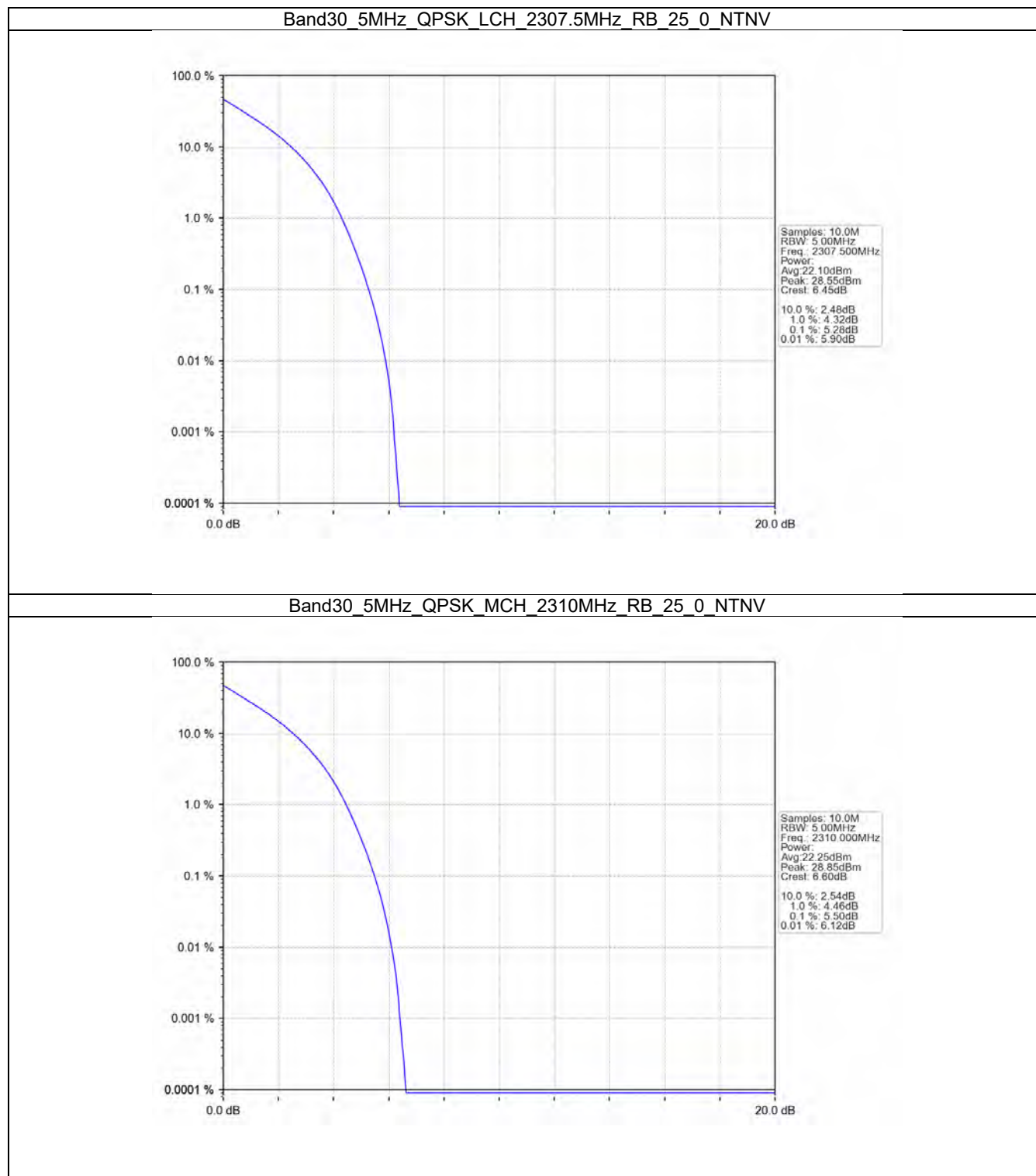
Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	25	0	5.28	<=13	Pass
	2310	25	0	5.50	<=13	Pass
	2312.5	25	0	5.60	<=13	Pass
16QAM	2307.5	25	0	6.02	<=13	Pass
	2310	25	0	6.24	<=13	Pass
	2312.5	25	0	6.28	<=13	Pass
64QAM	2307.5	25	0	6.06	<=13	Pass
	2310	25	0	6.10	<=13	Pass
	2312.5	25	0	6.30	<=13	Pass

4.1.2 B30_10MHz

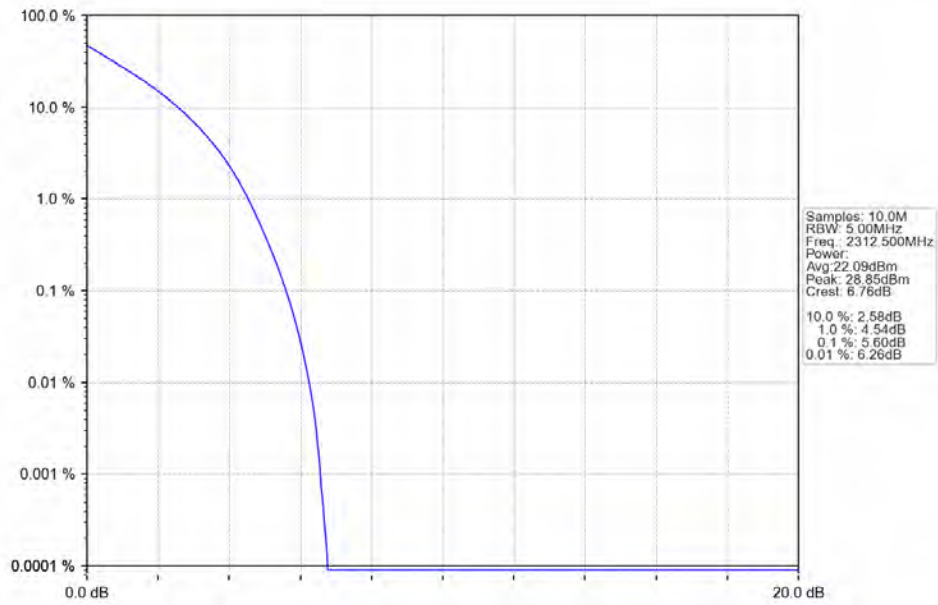
Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	5.28	<=13	Pass
16QAM	2310	50	0	6.18	<=13	Pass
64QAM	2310	50	0	6.12	<=13	Pass

4.2 Test Graph

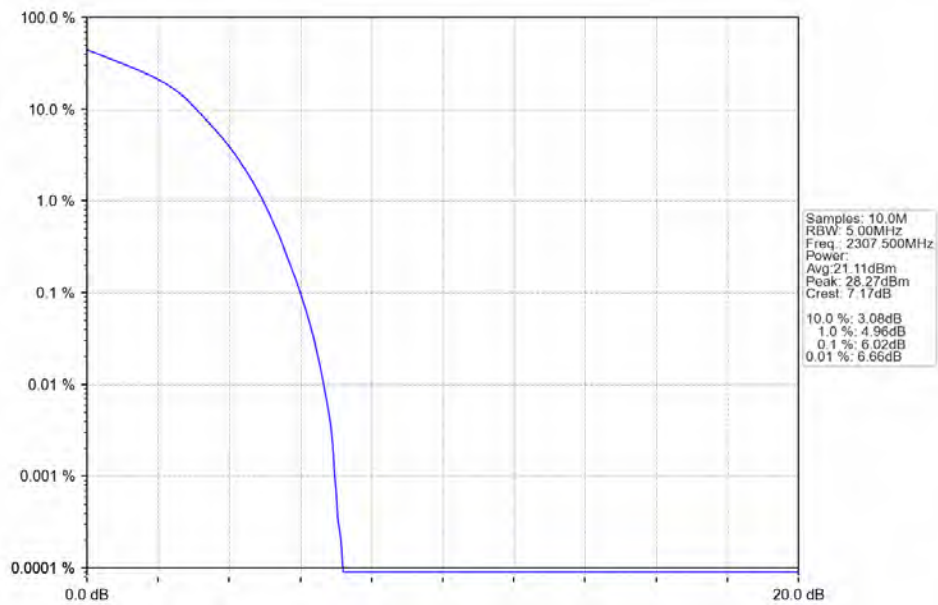
4.2.1 B30_5MHz



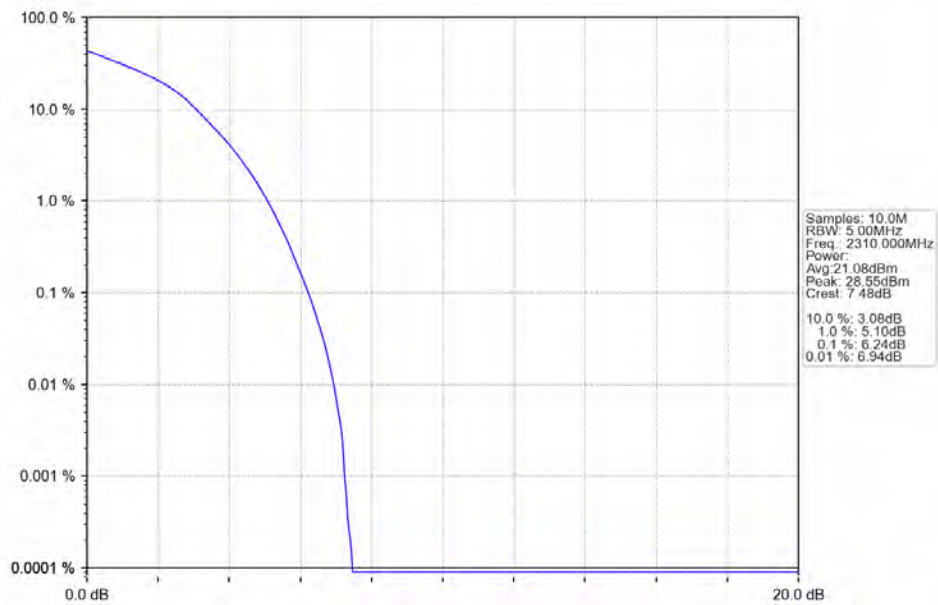
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



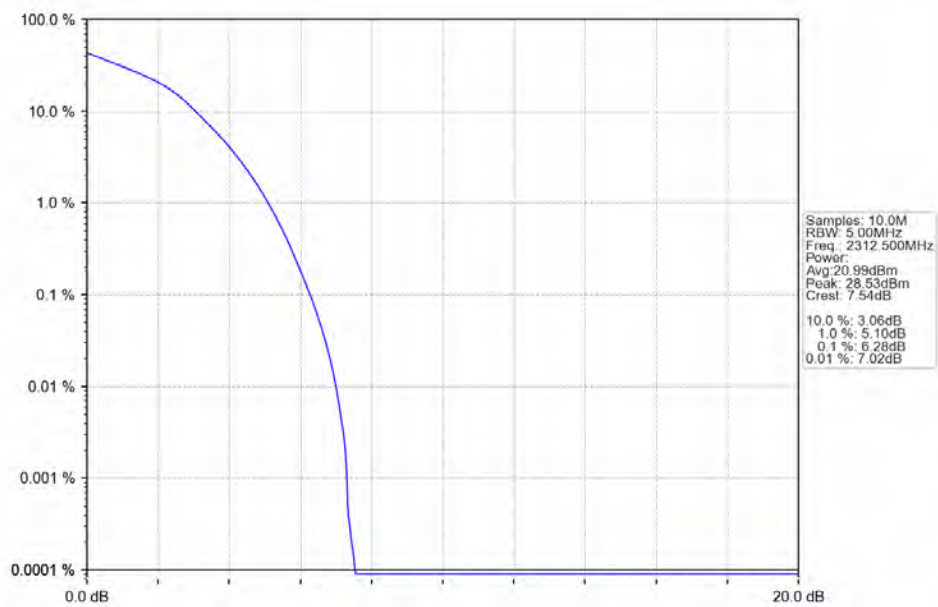
Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



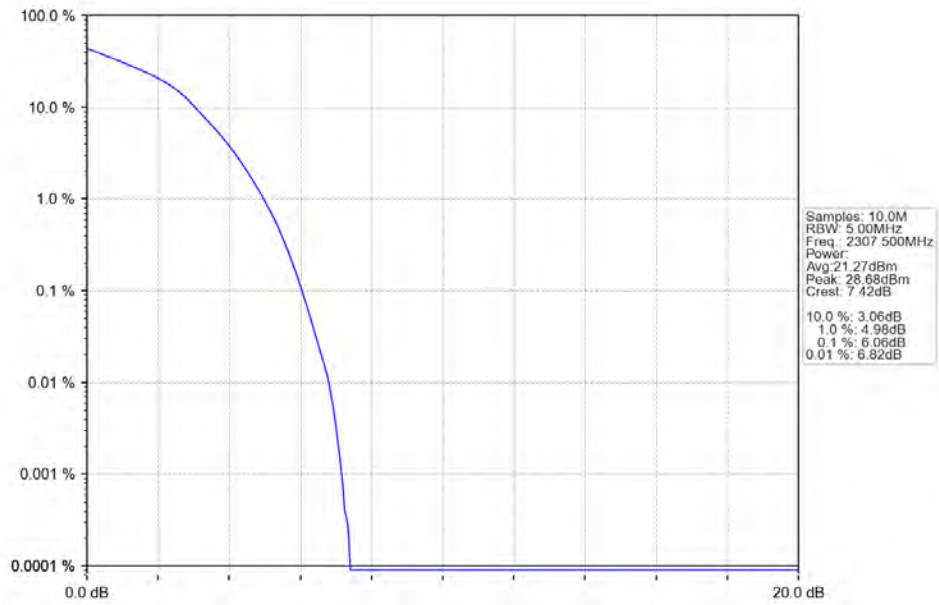
Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



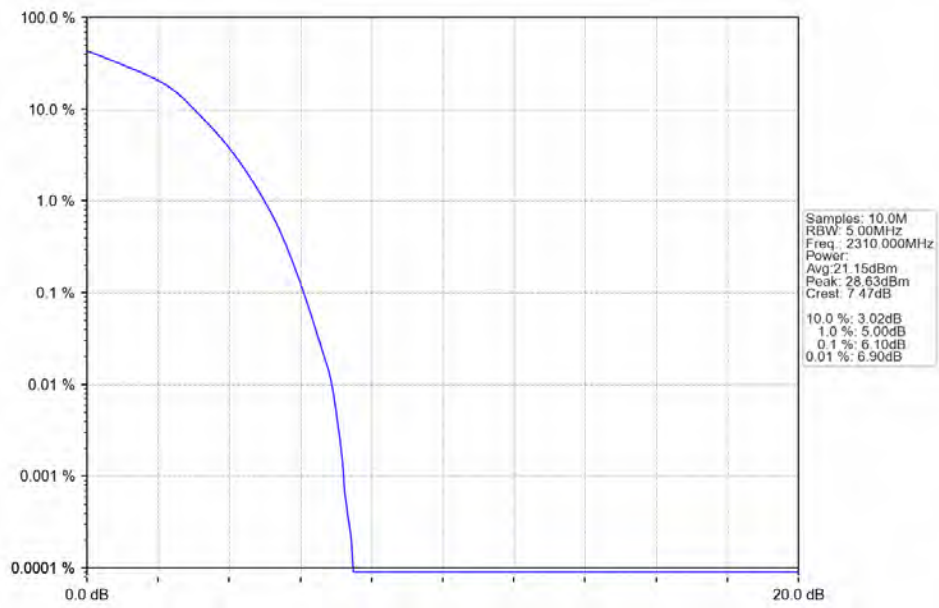
Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



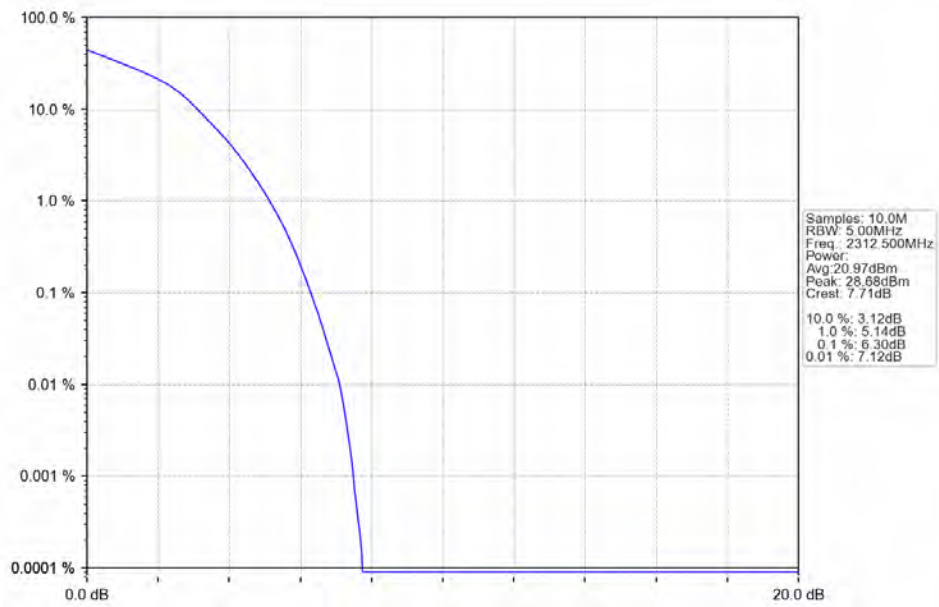
Band30_5MHz_64QAM_LCH_2307.5MHz_RB_25_0_NTNV



Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV

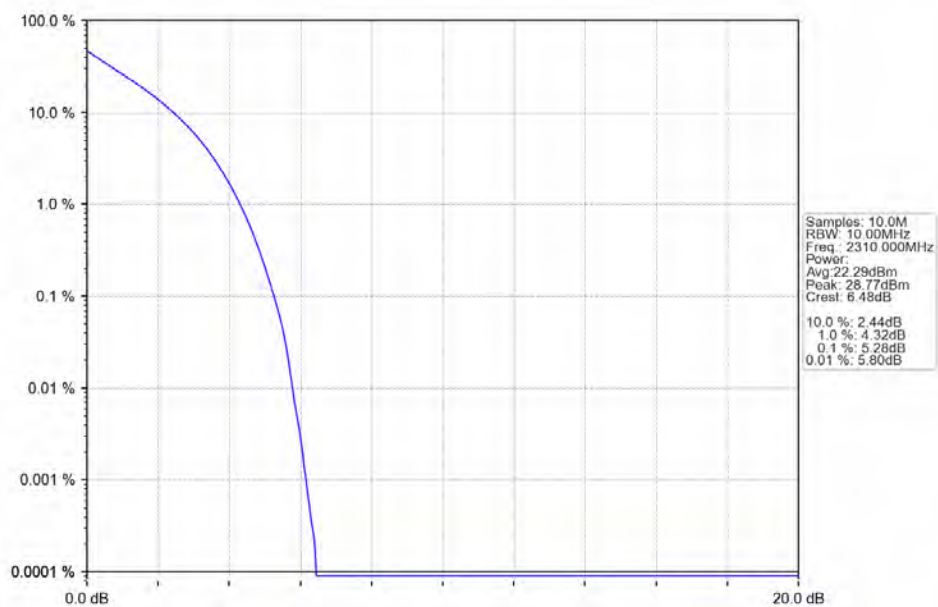


Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV

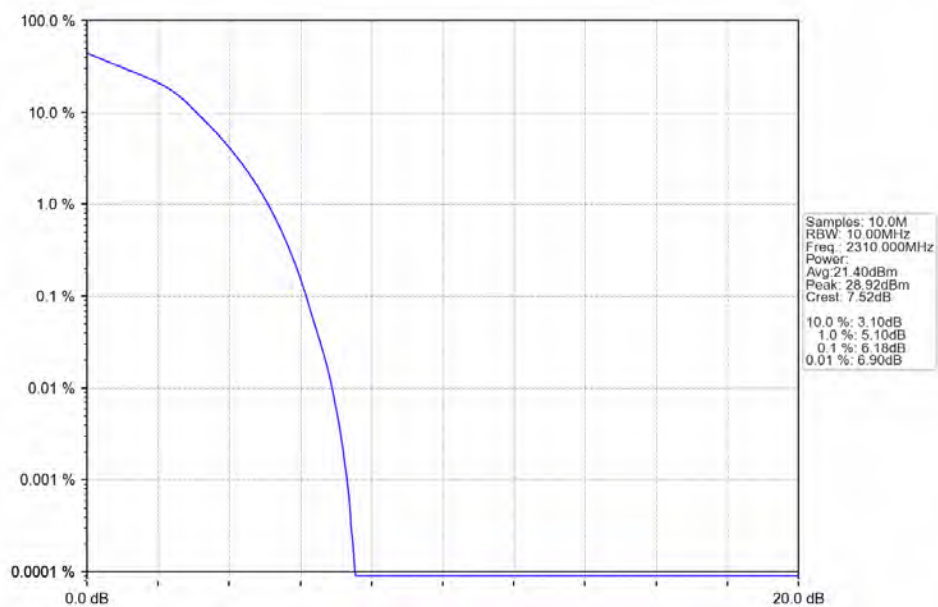


4.2.2 B30_10MHz

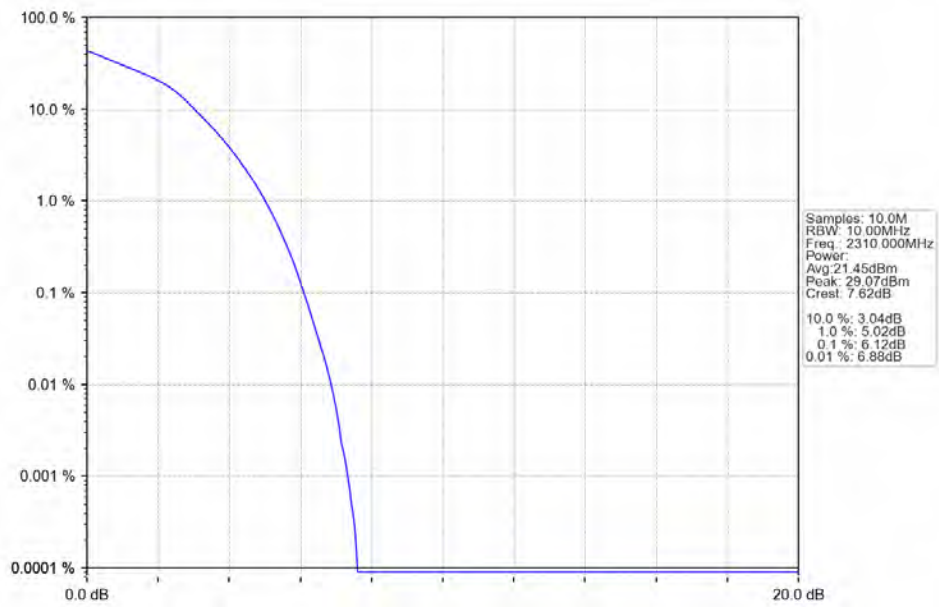
Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B30_5MHz

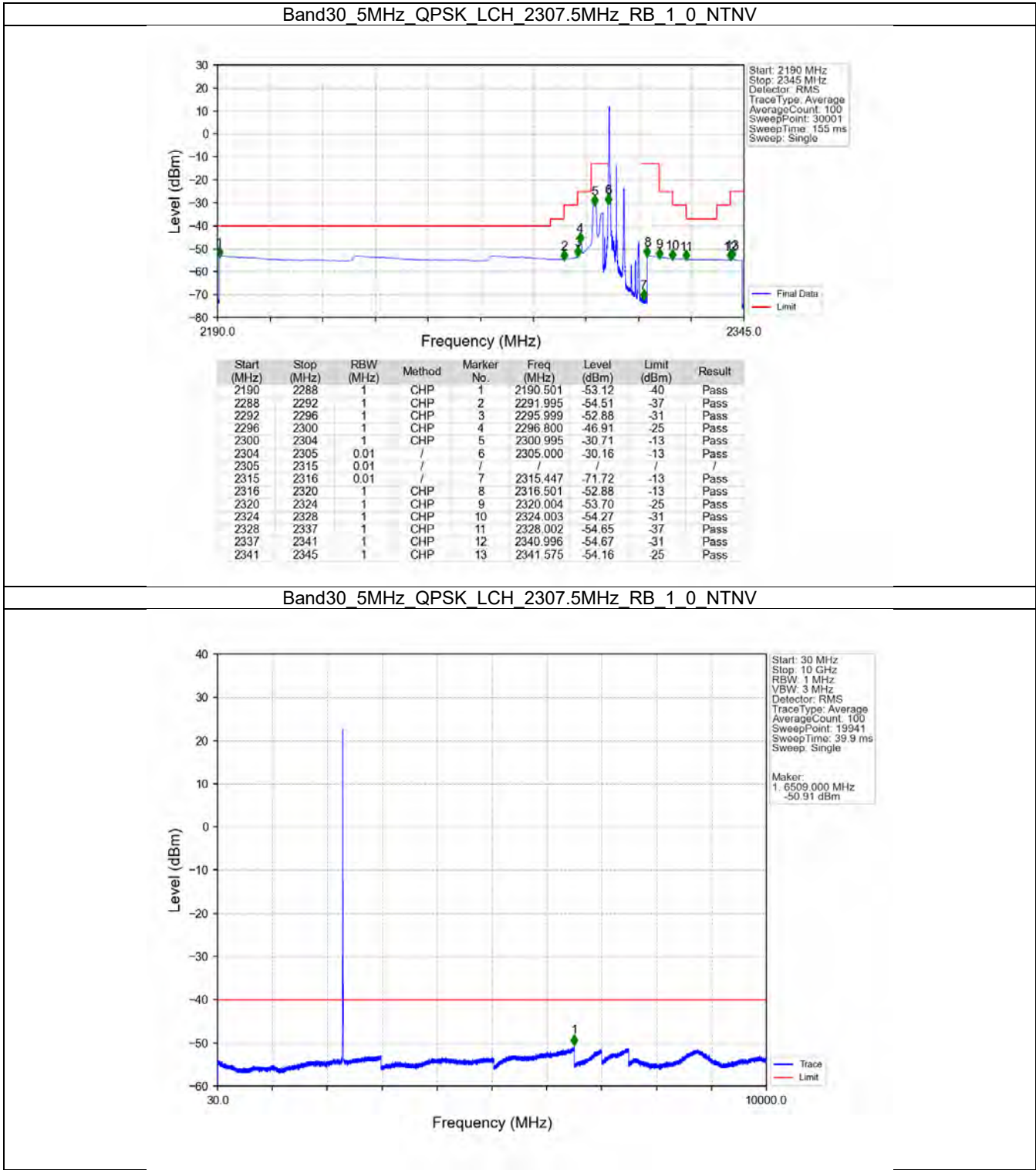
Band: 30 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
	2312.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.2 B30_10MHz

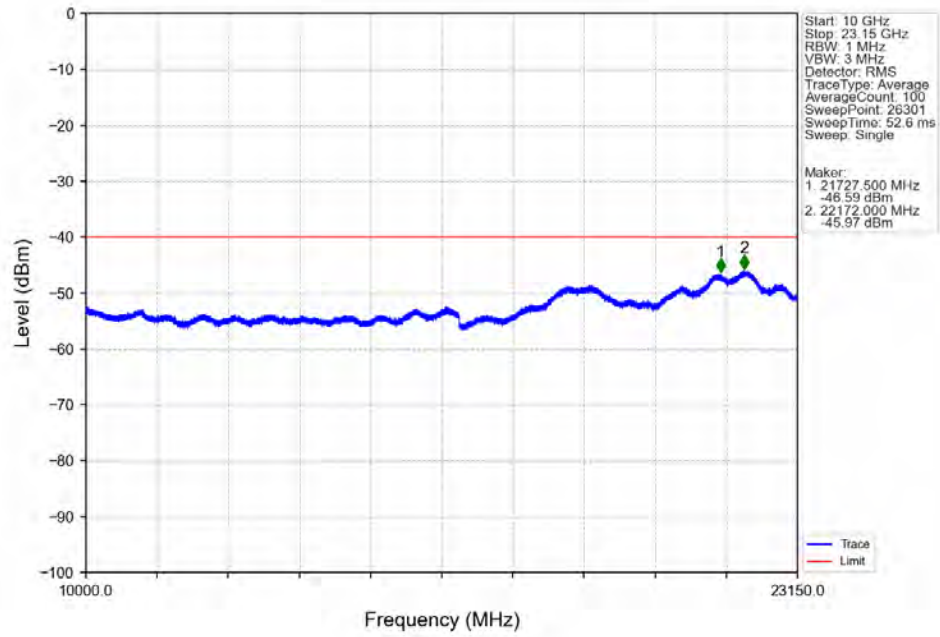
Band: 30 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

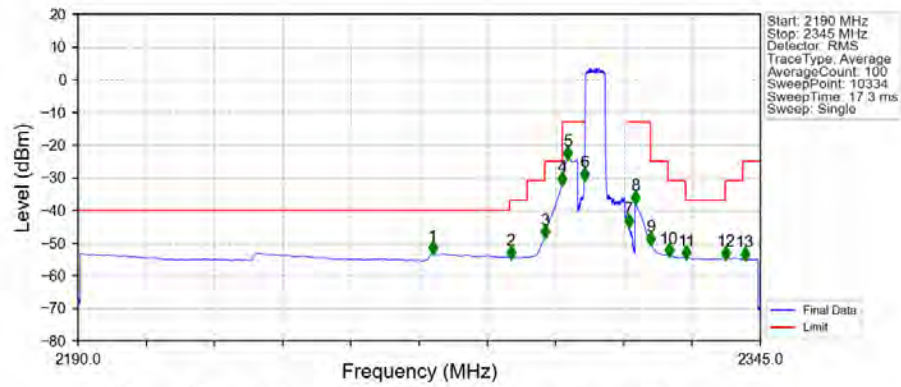
5.2.1 B30_5MHz



Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_0_NTNV

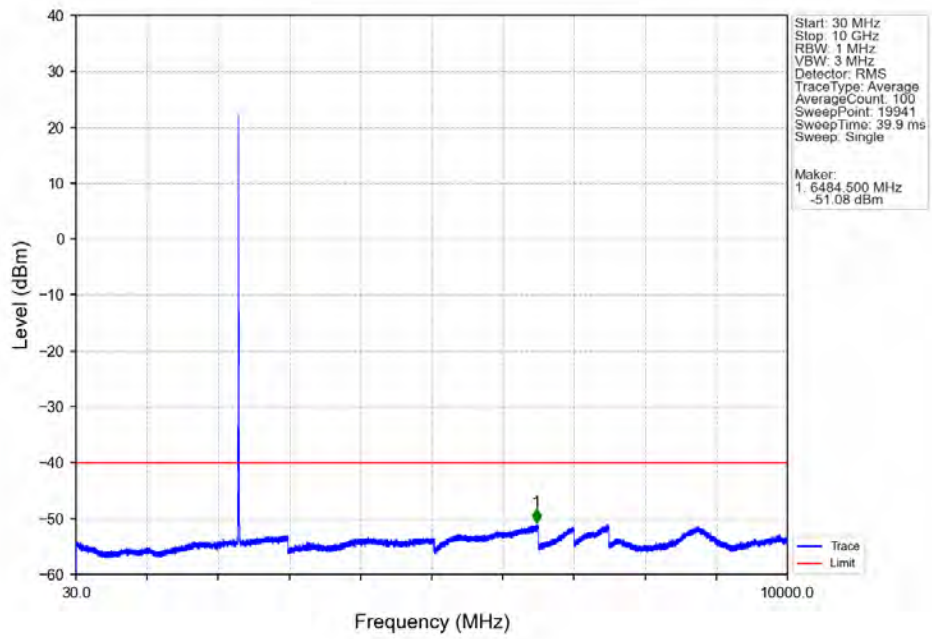


Band30_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV

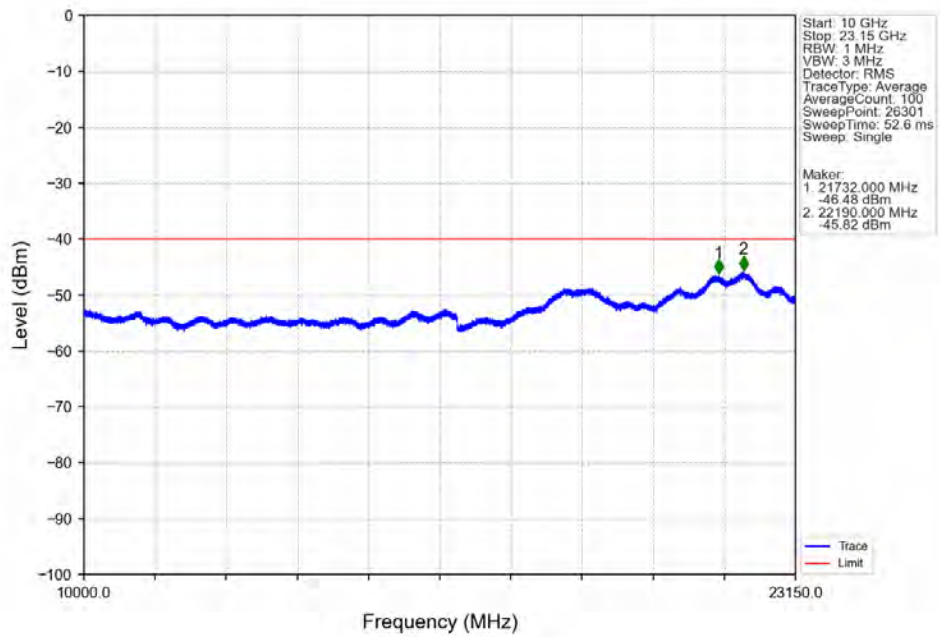


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2270.538	-53.00	-40	Pass
2288	2292	1	CHP	2	2288.328	-54.33	-37	Pass
2292	2296	1	CHP	3	2295.993	-48.07	-31	Pass
2296	2300	1	CHP	4	2299.999	-31.83	-25	Pass
2300	2304	1	CHP	5	2301.274	-24.01	-13	Pass
2304	2305	0.05	CHP	6	2304.994	-30.49	-13	Pass
2305	2315	0.05	CHP	7	2315.074	-44.80	-13	Pass
2315	2320	0.05	CHP	8	2316.514	-37.65	-13	Pass
2320	2324	1	CHP	9	2320.009	-50.17	-25	Pass
2324	2328	1	CHP	10	2324.239	-53.80	-31	Pass
2328	2337	1	CHP	11	2328.214	-54.51	-37	Pass
2337	2341	1	CHP	12	2337.140	-54.56	-31	Pass
2341	2345	1	CHP	13	2341.445	-54.95	-25	Pass

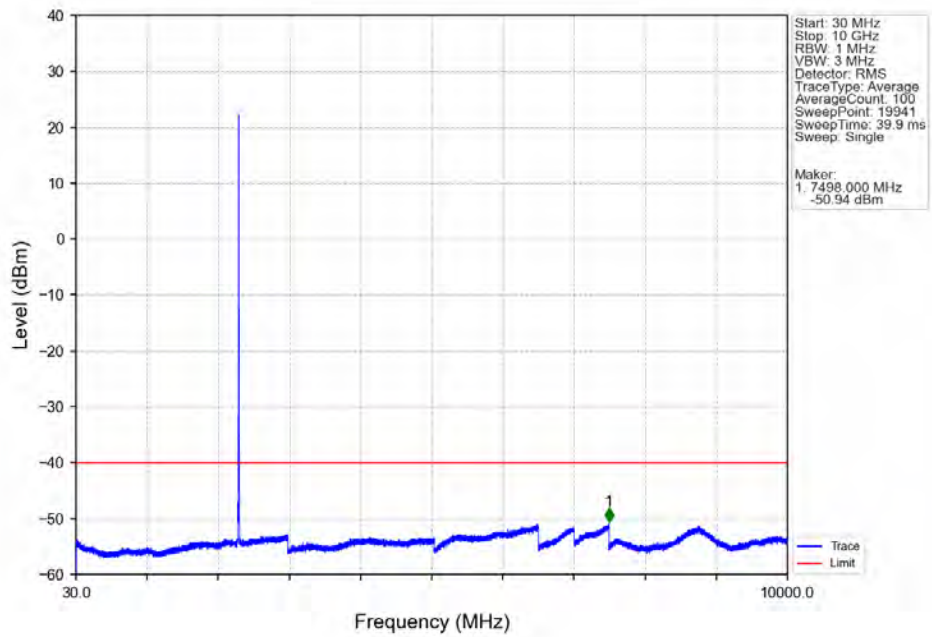
Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



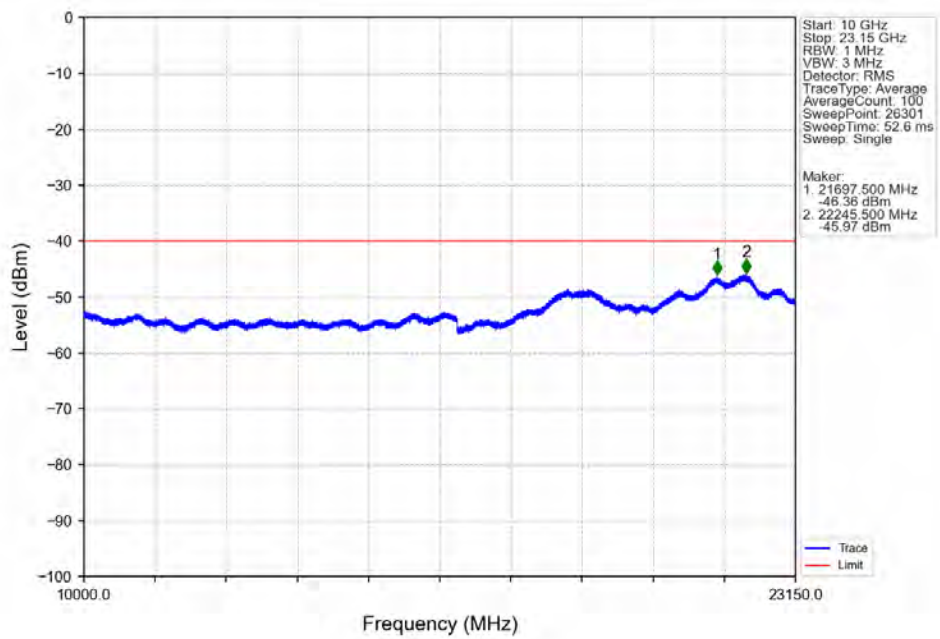
Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



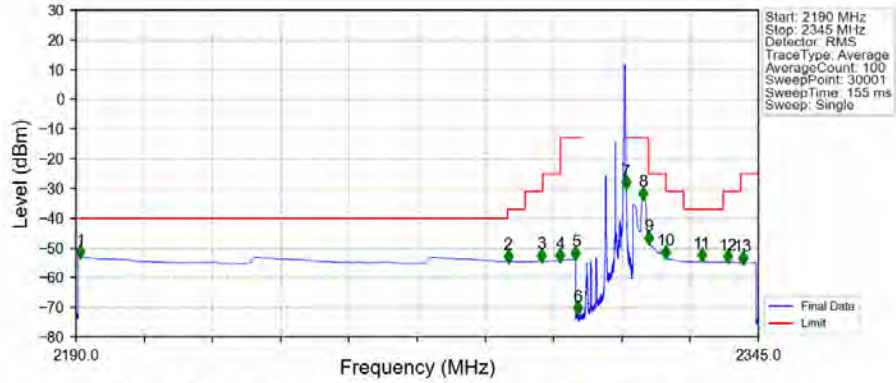
Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV

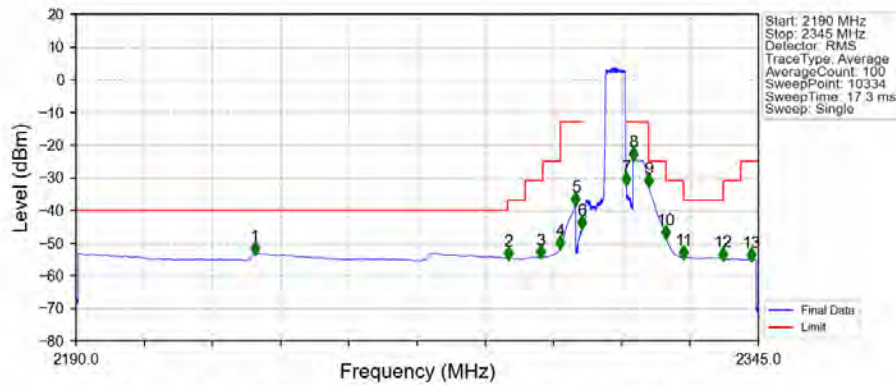


Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_24_NTNV



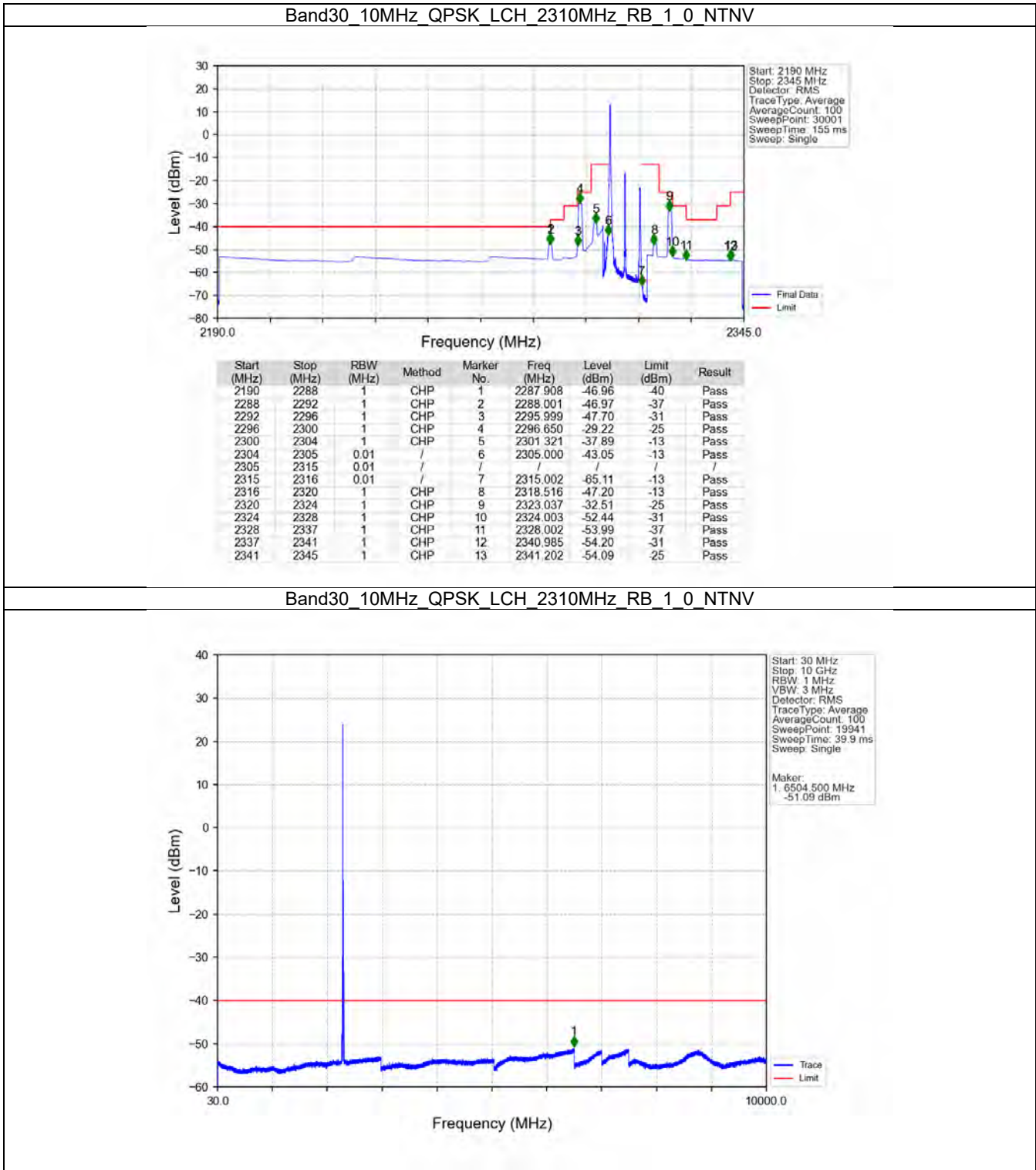
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2190.945	-53.08	-40	Pass
2288	2292	1	CHP	2	2288.125	-54.50	-37	Pass
2292	2296	1	CHP	3	2295.643	-54.23	-31	Pass
2296	2300	1	CHP	4	2299.952	-54.25	-25	Pass
2300	2304	1	CHP	5	2303.491	-53.43	-13	Pass
2304	2305	0.01	/	6	2304.003	-72.07	-13	Pass
2305	2315	0.01	/	/	/	/	/	/
2315	2316	0.01	/	7	2315.002	-29.71	-13	Pass
2316	2320	1	CHP	8	2318.810	-33.31	-13	Pass
2320	2324	1	CHP	9	2320.004	-48.30	-25	Pass
2324	2328	1	CHP	10	2324.003	-53.17	-31	Pass
2328	2337	1	CHP	11	2332.171	-54.12	-37	Pass
2337	2341	1	CHP	12	2338.056	-54.65	-31	Pass
2341	2345	1	CHP	13	2341.492	-55.02	-25	Pass

Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV

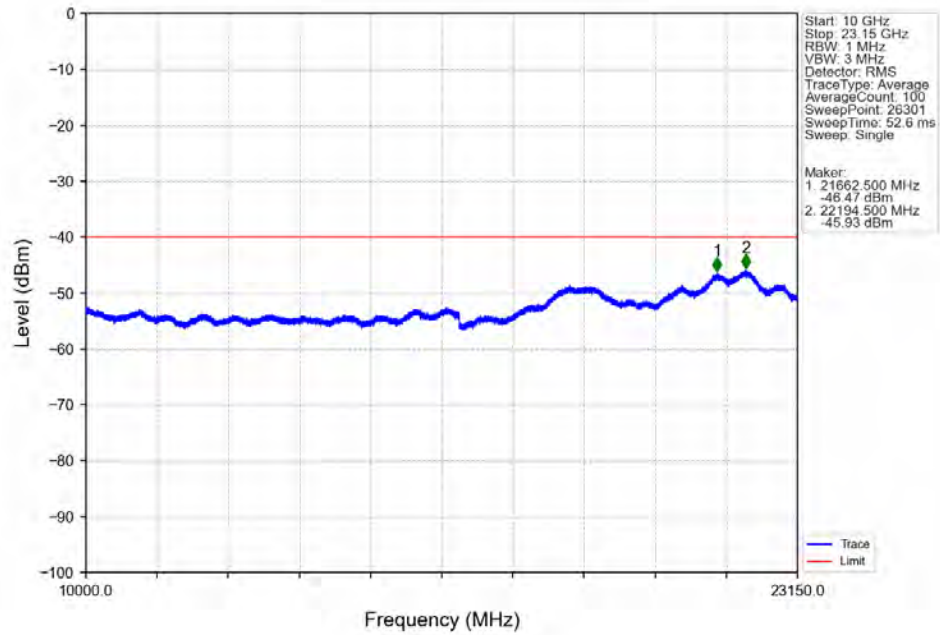


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2230.681	-53.09	-40	Pass
2288	2292	1	CHP	2	2288.253	-54.61	-37	Pass
2292	2296	1	CHP	3	2295.603	-54.25	-31	Pass
2296	2300	1	CHP	4	2299.999	-51.48	-25	Pass
2300	2304	1	CHP	5	2303.494	-38.08	-13	Pass
2304	2305	0.05	CHP	6	2304.934	-45.30	-13	Pass
2305	2315	0.05	CHP	/	/	/	/	/
2315	2316	0.05	CHP	7	2315.014	-31.88	-13	Pass
2316	2320	1	CHP	8	2316.514	-24.18	-13	Pass
2320	2324	1	CHP	9	2320.009	-32.48	-25	Pass
2324	2328	1	CHP	10	2324.014	-48.17	-31	Pass
2328	2337	1	CHP	11	2328.004	-54.39	-37	Pass
2337	2341	1	CHP	12	2337.005	-54.80	-31	Pass
2341	2345	1	CHP	13	2343.350	-55.04	-25	Pass

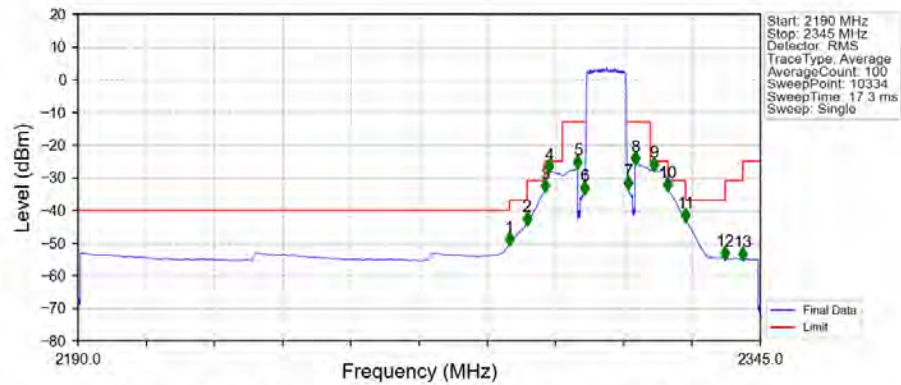
5.2.2 B30_10MHz



Band30_10MHz_QPSK_LCH_2310MHz_RB_1_0_NTNV

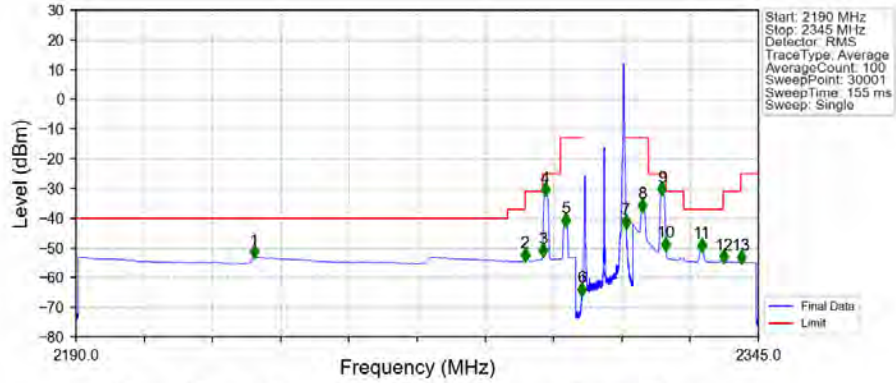


Band30_10MHz_QPSK_LCH_2310MHz_RB_50_0_NTNV



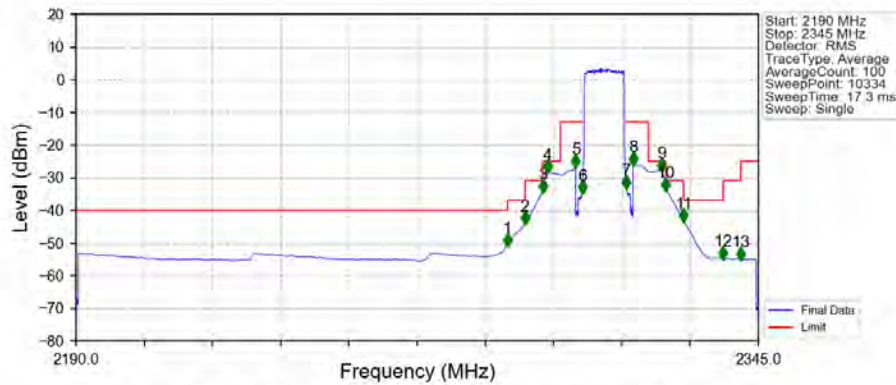
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2287.998	-50.28	-40	Pass
2288	2292	1	CHP	2	2291.988	-44.07	-37	Pass
2292	2296	1	CHP	3	2295.993	-34.00	-31	Pass
2296	2300	1	CHP	4	2297.028	-28.09	-25	Pass
2300	2304	1	CHP	5	2303.494	-26.67	-13	Pass
2304	2305	0.098	CHP	6	2304.994	-34.60	-13	Pass
2305	2315	0.098	CHP	7	2315.014	-33.21	-13	Pass
2315	2316	0.098	CHP	8	2316.514	-25.65	-13	Pass
2316	2320	1	CHP	9	2320.789	-27.56	-25	Pass
2320	2324	1	CHP	10	2324.014	-33.67	-31	Pass
2324	2328	1	CHP	11	2328.004	-42.99	-37	Pass
2328	2337	1	CHP	12	2337.005	-54.64	-31	Pass
2337	2341	1	CHP	13	2341.010	-54.86	-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	2288	1	CHP	1	2230.501	-53.01	40	Pass
2288	2292	1	CHP	2	2291.990	-54.06	-37	Pass
2292	2296	1	CHP	3	2295.999	-52.53	-31	Pass
2296	2300	1	CHP	4	2296.578	-32.14	-25	Pass
2300	2304	1	CHP	5	2301.202	-42.24	-13	Pass
2304	2305	0.01	/	6	2304.963	65.65	-13	Pass
2305	2315	0.01	/	/	/	/	/	/
2315	2316	0.01	/	7	2315.008	-42.88	-13	Pass
2316	2320	1	CHP	8	2318.671	-37.48	-13	Pass
2320	2324	1	CHP	9	2323.088	-31.86	-25	Pass
2324	2328	1	CHP	10	2324.003	-50.41	-31	Pass
2328	2337	1	CHP	11	2332.171	-50.73	-37	Pass
2337	2341	1	CHP	12	2337.183	-54.65	-31	Pass
2341	2345	1	CHP	13	2341.089	-54.91	-25	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	2288	1	CHP	1	2287.998	-50.61	40	Pass
2288	2292	1	CHP	2	2291.988	-43.89	-37	Pass
2292	2296	1	CHP	3	2295.993	-34.12	-31	Pass
2296	2300	1	CHP	4	2297.103	-28.08	-25	Pass
2300	2304	1	CHP	5	2303.494	-26.51	-13	Pass
2304	2305	0.098	CHP	6	2304.994	-34.50	-13	Pass
2305	2315	0.098	CHP	/	/	/	/	/
2315	2316	0.098	CHP	7	2315.014	-32.83	-13	Pass
2316	2320	1	CHP	8	2316.514	-25.71	-13	Pass
2320	2324	1	CHP	9	2322.964	-27.76	-25	Pass
2324	2328	1	CHP	10	2324.014	-33.64	-31	Pass
2328	2337	1	CHP	11	2328.004	-43.13	-37	Pass
2337	2341	1	CHP	12	2337.005	-54.63	-31	Pass
2341	2345	1	CHP	13	2341.010	-54.90	-25	Pass

6. Field Strength of Spurious Radiation

Test Band = LTE Band 30 10M_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611	68.86	-48.00	30.34	-44.05	-40.00	4.05	Horizontal
2	6916.77	56.08	-46.71	35.37	-50.52	-40.00	10.52	Horizontal
3	9222.36	41.04	-43.39	37.71	-59.90	-40.00	19.90	Horizontal
4	11527.95	42.27	-39.98	39.45	-53.52	-40.00	13.52	Horizontal
5	13833.54	41.19	-38.91	40.05	-52.93	-40.00	12.93	Horizontal
6	16139.13	42.75	-37.96	38.46	-52.02	-40.00	12.02	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611.18	70.99	-48.00	30.35	-41.92	-40.00	1.92	Vertical
2	6916.77	56.96	-46.71	35.37	-49.64	-40.00	9.64	Vertical
3	9222.36	44.38	-43.39	37.71	-56.56	-40.00	16.56	Vertical
4	11527.95	42.69	-39.98	39.45	-53.10	-40.00	13.10	Vertical
5	13833.54	41.01	-38.91	40.05	-53.11	-40.00	13.11	Vertical
6	16139.13	42.81	-37.96	38.46	-51.96	-40.00	11.96	Vertical

Test Band = LTE Band 30 5M_ TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6916	56.34	-46.71	35.37	-50.26	-40.00	10.26	Horizontal
2	4610.68	66.38	-48.00	30.34	-46.53	-40.00	6.53	Horizontal
3	9221.36	42.02	-43.40	37.71	-58.93	-40.00	18.93	Horizontal
4	11526.7	42.57	-39.98	39.45	-53.22	-40.00	13.22	Horizontal
5	13832.04	41.17	-38.92	40.05	-52.96	-40.00	12.96	Horizontal
6	16137.38	42.24	-37.97	38.46	-52.53	-40.00	12.53	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.5	69.07	-48.00	30.34	-43.84	-40.00	3.84	Vertical
2	6916	59.61	-46.71	35.37	-46.99	-40.00	6.99	Vertical
3	9221.36	45.91	-43.40	37.71	-55.04	-40.00	15.04	Vertical
4	11526.7	42.23	-39.98	39.45	-53.56	-40.00	13.56	Vertical
5	13832.04	41.06	-38.92	40.05	-53.07	-40.00	13.07	Vertical
6	16137.38	43.06	-37.97	38.46	-51.71	-40.00	11.71	Vertical

Test Band = LTE Band 30 5M_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4616	66.90	-47.99	30.36	-46.00	-40.00	6.00	Horizontal
2	6923.5	57.80	-46.70	35.38	-48.78	-40.00	8.78	Horizontal
3	9231.36	43.36	-43.33	37.72	-57.51	-40.00	17.51	Horizontal
4	11539.2	42.18	-39.95	39.45	-53.58	-40.00	13.58	Horizontal
5	13847.04	41.22	-38.88	40.07	-52.85	-40.00	12.85	Horizontal
6	16154.88	42.54	-37.91	38.46	-52.17	-40.00	12.17	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	69.55	-47.99	30.35	-43.35	-40.00	3.35	Vertical
2	6923.5	58.81	-46.70	35.38	-47.77	-40.00	7.77	Vertical
3	9231.36	44.32	-43.33	37.72	-56.55	-40.00	16.55	Vertical
4	11539.2	42.11	-39.95	39.45	-53.65	-40.00	13.65	Vertical
5	13847.04	41.45	-38.88	40.07	-52.62	-40.00	12.62	Vertical
6	16154.88	42.78	-37.91	38.46	-51.93	-40.00	11.93	Vertical

Test Band = LTE Band 30 5M_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6931	57.45	-46.69	35.39	-49.11	-40.00	9.11	Horizontal
2	4620.68	66.57	-47.99	30.37	-46.32	-40.00	6.32	Horizontal
3	9241.32	43.99	-43.27	37.74	-56.80	-40.00	16.80	Horizontal
4	11551.7	41.11	-39.91	39.44	-54.61	-40.00	14.61	Horizontal
5	13862.04	41.03	-38.84	40.09	-52.97	-40.00	12.97	Horizontal
6	16172.38	42.59	-37.85	38.47	-52.05	-40.00	12.05	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.5	70.15	-47.99	30.37	-42.74	-40.00	2.74	Vertical
2	6931	59.57	-46.69	35.39	-46.99	-40.00	6.99	Vertical
3	9241.32	47.67	-43.27	37.74	-53.12	-40.00	13.12	Vertical
4	11551.7	43.42	-39.91	39.44	-52.30	-40.00	12.30	Vertical
5	13862.04	41.10	-38.84	40.09	-52.90	-40.00	12.90	Vertical
6	16172.38	43.35	-37.85	38.47	-51.29	-40.00	11.29	Vertical