

Appendix for Band 12

Report No.: BCTC2404921304-6E

Applicant: Shenzhen Qichang Intelligent Technology Co., Ltd

Product Name: Smart phone

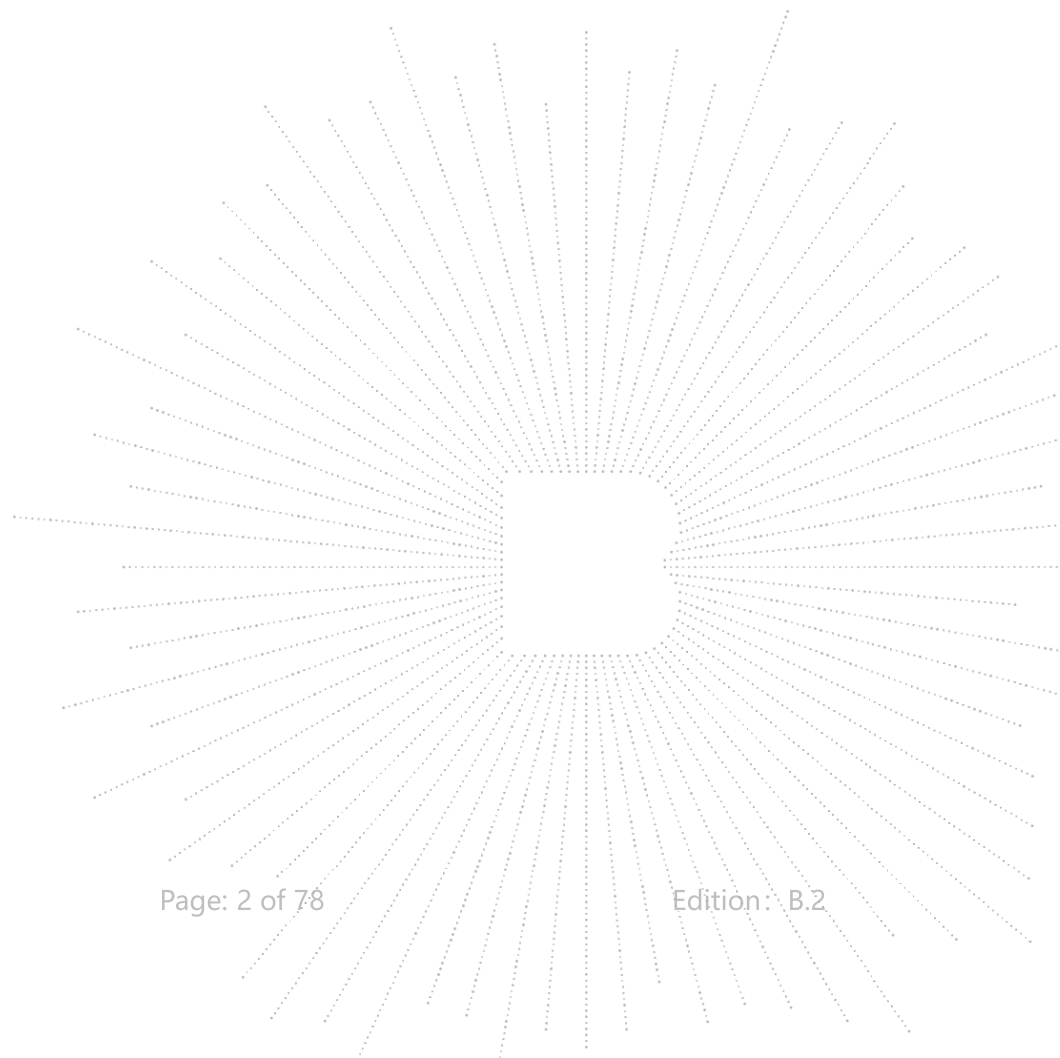
Test Model: F105

Tested Date: 2024-04-17 to 2024-05-20

Shenzhen BCTC Testing Co., Ltd.

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Appendix 1. Effective Radiated Power and Effective Isotropic Radiated Power Measurement

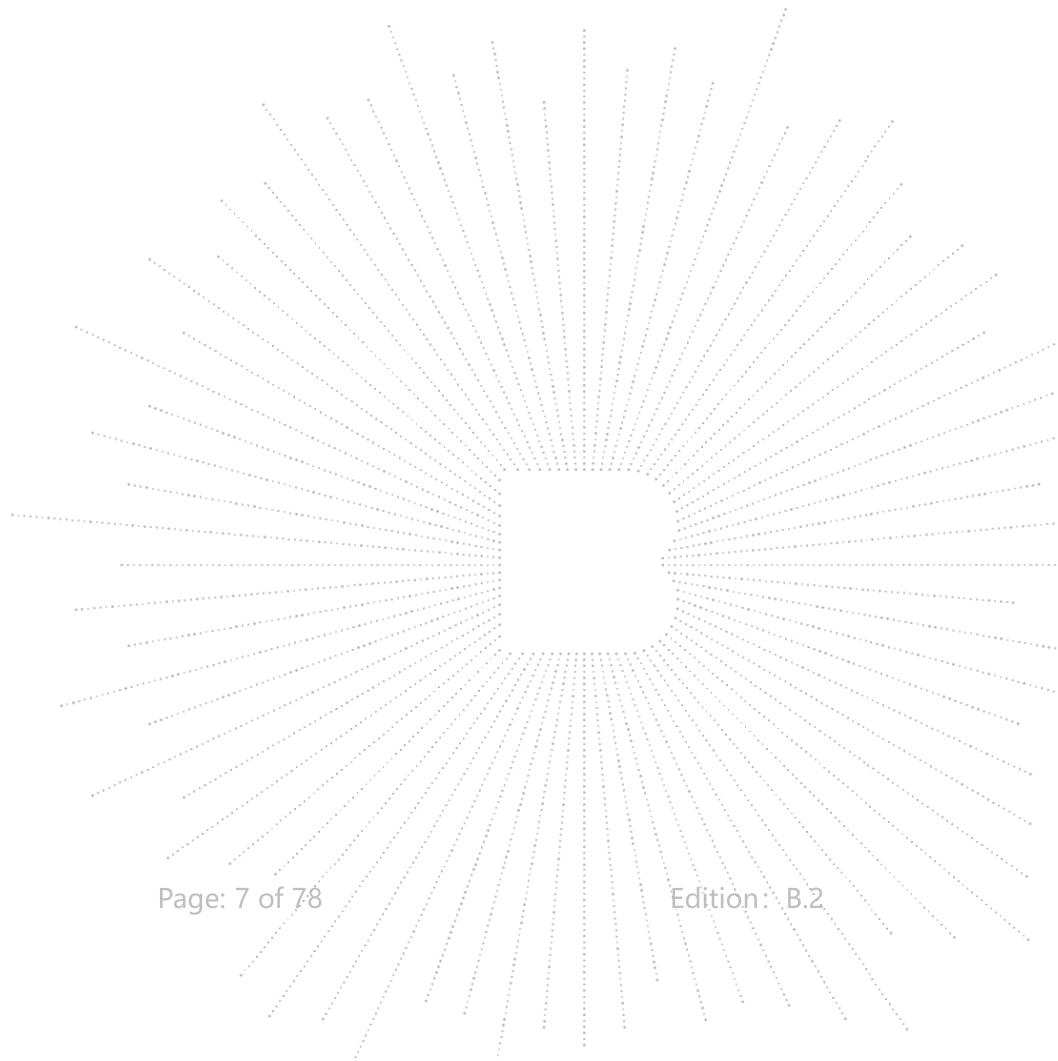
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	ERP (dBm)	Verdict
Band12	1.4	23017	1	#0	QPSK	23.43	-0.1	21.18	PASS
Band12	1.4	23017	1	#Mid	QPSK	23.67	-0.1	21.42	PASS
Band12	1.4	23017	1	#Max	QPSK	23.63	-0.1	21.38	PASS
Band12	1.4	23017	3	#0	QPSK	23.61	-0.1	21.36	PASS
Band12	1.4	23017	3	#Mid	QPSK	23.62	-0.1	21.37	PASS
Band12	1.4	23017	3	#Max	QPSK	23.71	-0.1	21.46	PASS
Band12	1.4	23017	6	#0	QPSK	22.55	-0.1	20.30	PASS
Band12	1.4	23017	1	#0	16QAM	22.70	-0.1	20.45	PASS
Band12	1.4	23017	1	#Mid	16QAM	22.84	-0.1	20.59	PASS
Band12	1.4	23017	1	#Max	16QAM	22.87	-0.1	20.62	PASS
Band12	1.4	23017	3	#0	16QAM	22.81	-0.1	20.56	PASS
Band12	1.4	23017	3	#Mid	16QAM	22.86	-0.1	20.61	PASS
Band12	1.4	23017	3	#Max	16QAM	22.93	-0.1	20.68	PASS
Band12	1.4	23017	6	#0	16QAM	21.80	-0.1	19.55	PASS
Band12	1.4	23095	1	#0	QPSK	23.70	-0.1	21.45	PASS
Band12	1.4	23095	1	#Mid	QPSK	23.86	-0.1	21.61	PASS
Band12	1.4	23095	1	#Max	QPSK	23.69	-0.1	21.44	PASS
Band12	1.4	23095	3	#0	QPSK	23.75	-0.1	21.50	PASS
Band12	1.4	23095	3	#Mid	QPSK	23.75	-0.1	21.50	PASS
Band12	1.4	23095	3	#Max	QPSK	23.76	-0.1	21.51	PASS
Band12	1.4	23095	6	#0	QPSK	22.71	-0.1	20.46	PASS
Band12	1.4	23095	1	#0	16QAM	22.52	-0.1	20.27	PASS
Band12	1.4	23095	1	#Mid	16QAM	22.63	-0.1	20.38	PASS
Band12	1.4	23095	1	#Max	16QAM	22.53	-0.1	20.28	PASS
Band12	1.4	23095	3	#0	16QAM	22.85	-0.1	20.60	PASS
Band12	1.4	23095	3	#Mid	16QAM	22.84	-0.1	20.59	PASS
Band12	1.4	23095	3	#Max	16QAM	22.88	-0.1	20.63	PASS
Band12	1.4	23095	6	#0	16QAM	21.93	-0.1	19.68	PASS
Band12	1.4	23173	1	#0	QPSK	23.67	-0.1	21.42	PASS
Band12	1.4	23173	1	#Mid	QPSK	23.82	-0.1	21.57	PASS
Band12	1.4	23173	1	#Max	QPSK	23.67	-0.1	21.42	PASS
Band12	1.4	23173	3	#0	QPSK	23.66	-0.1	21.41	PASS
Band12	1.4	23173	3	#Mid	QPSK	23.68	-0.1	21.43	PASS
Band12	1.4	23173	3	#Max	QPSK	23.72	-0.1	21.47	PASS
Band12	1.4	23173	6	#0	QPSK	22.66	-0.1	20.41	PASS

Band12	1.4	23173	1	#0	16QAM	22.75	-0.1	20.50	PASS
Band12	1.4	23173	1	#Mid	16QAM	22.89	-0.1	20.64	PASS
Band12	1.4	23173	1	#Max	16QAM	22.75	-0.1	20.50	PASS
Band12	1.4	23173	3	#0	16QAM	22.85	-0.1	20.60	PASS
Band12	1.4	23173	3	#Mid	16QAM	22.82	-0.1	20.57	PASS
Band12	1.4	23173	3	#Max	16QAM	22.82	-0.1	20.57	PASS
Band12	1.4	23173	6	#0	16QAM	21.90	-0.1	19.65	PASS
Band12	3	23025	1	#0	QPSK	23.44	-0.1	21.19	PASS
Band12	3	23025	1	#Mid	QPSK	23.97	-0.1	21.72	PASS
Band12	3	23025	1	#Max	QPSK	23.68	-0.1	21.43	PASS
Band12	3	23025	8	#0	QPSK	22.57	-0.1	20.32	PASS
Band12	3	23025	8	#Mid	QPSK	22.70	-0.1	20.45	PASS
Band12	3	23025	8	#Max	QPSK	22.66	-0.1	20.41	PASS
Band12	3	23025	15	#0	QPSK	22.59	-0.1	20.34	PASS
Band12	3	23025	1	#0	16QAM	22.71	-0.1	20.46	PASS
Band12	3	23025	1	#Mid	16QAM	22.97	-0.1	20.72	PASS
Band12	3	23025	1	#Max	16QAM	22.86	-0.1	20.61	PASS
Band12	3	23025	8	#0	16QAM	21.68	-0.1	19.43	PASS
Band12	3	23025	8	#Mid	16QAM	21.76	-0.1	19.51	PASS
Band12	3	23025	8	#Max	16QAM	21.74	-0.1	19.49	PASS
Band12	3	23025	15	#0	16QAM	21.66	-0.1	19.41	PASS
Band12	3	23095	1	#0	QPSK	23.73	-0.1	21.48	PASS
Band12	3	23095	1	#Mid	QPSK	24.08	-0.1	21.83	PASS
Band12	3	23095	1	#Max	QPSK	23.75	-0.1	21.50	PASS
Band12	3	23095	8	#0	QPSK	22.65	-0.1	20.40	PASS
Band12	3	23095	8	#Mid	QPSK	22.69	-0.1	20.44	PASS
Band12	3	23095	8	#Max	QPSK	22.69	-0.1	20.44	PASS
Band12	3	23095	15	#0	QPSK	22.68	-0.1	20.43	PASS
Band12	3	23095	1	#0	16QAM	22.55	-0.1	20.30	PASS
Band12	3	23095	1	#Mid	16QAM	22.90	-0.1	20.65	PASS
Band12	3	23095	1	#Max	16QAM	22.55	-0.1	20.30	PASS
Band12	3	23095	8	#0	16QAM	21.69	-0.1	19.44	PASS
Band12	3	23095	8	#Mid	16QAM	21.74	-0.1	19.49	PASS
Band12	3	23095	8	#Max	16QAM	21.76	-0.1	19.51	PASS
Band12	3	23095	15	#0	16QAM	21.83	-0.1	19.58	PASS
Band12	3	23165	1	#0	QPSK	23.61	-0.1	21.36	PASS
Band12	3	23165	1	#Mid	QPSK	23.89	-0.1	21.64	PASS
Band12	3	23165	1	#Max	QPSK	23.62	-0.1	21.37	PASS
Band12	3	23165	8	#0	QPSK	22.63	-0.1	20.38	PASS
Band12	3	23165	8	#Mid	QPSK	22.67	-0.1	20.42	PASS
Band12	3	23165	8	#Max	QPSK	22.65	-0.1	20.40	PASS
Band12	3	23165	15	#0	QPSK	22.59	-0.1	20.34	PASS

Band12	3	23165	1	#0	16QAM	23.08	-0.1	20.83	PASS
Band12	3	23165	1	#Mid	16QAM	23.40	-0.1	21.15	PASS
Band12	3	23165	1	#Max	16QAM	23.00	-0.1	20.75	PASS
Band12	3	23165	8	#0	16QAM	21.74	-0.1	19.49	PASS
Band12	3	23165	8	#Mid	16QAM	21.74	-0.1	19.49	PASS
Band12	3	23165	8	#Max	16QAM	21.71	-0.1	19.46	PASS
Band12	3	23165	15	#0	16QAM	21.72	-0.1	19.47	PASS
Band12	5	23035	1	#0	QPSK	23.95	-0.1	21.70	PASS
Band12	5	23035	1	#Mid	QPSK	24.54	-0.1	22.29	PASS
Band12	5	23035	1	#Max	QPSK	24.20	-0.1	21.95	PASS
Band12	5	23035	12	#0	QPSK	23.25	-0.1	21.00	PASS
Band12	5	23035	12	#Mid	QPSK	23.32	-0.1	21.07	PASS
Band12	5	23035	12	#Max	QPSK	23.21	-0.1	20.96	PASS
Band12	5	23035	25	#0	QPSK	23.21	-0.1	20.96	PASS
Band12	5	23035	1	#0	16QAM	23.24	-0.1	20.99	PASS
Band12	5	23035	1	#Mid	16QAM	23.78	-0.1	21.53	PASS
Band12	5	23035	1	#Max	16QAM	23.24	-0.1	20.99	PASS
Band12	5	23035	12	#0	16QAM	21.74	-0.1	19.49	PASS
Band12	5	23035	12	#Mid	16QAM	21.84	-0.1	19.59	PASS
Band12	5	23035	12	#Max	16QAM	21.75	-0.1	19.50	PASS
Band12	5	23035	25	#0	16QAM	21.73	-0.1	19.48	PASS
Band12	5	23095	1	#0	QPSK	23.65	-0.1	21.40	PASS
Band12	5	23095	1	#Mid	QPSK	24.00	-0.1	21.75	PASS
Band12	5	23095	1	#Max	QPSK	23.66	-0.1	21.41	PASS
Band12	5	23095	12	#0	QPSK	22.74	-0.1	20.49	PASS
Band12	5	23095	12	#Mid	QPSK	22.77	-0.1	20.52	PASS
Band12	5	23095	12	#Max	QPSK	22.79	-0.1	20.54	PASS
Band12	5	23095	25	#0	QPSK	22.78	-0.1	20.53	PASS
Band12	5	23095	1	#0	16QAM	22.96	-0.1	20.71	PASS
Band12	5	23095	1	#Mid	16QAM	23.40	-0.1	21.15	PASS
Band12	5	23095	1	#Max	16QAM	22.96	-0.1	20.71	PASS
Band12	5	23095	12	#0	16QAM	21.75	-0.1	19.50	PASS
Band12	5	23095	12	#Mid	16QAM	21.76	-0.1	19.51	PASS
Band12	5	23095	12	#Max	16QAM	21.76	-0.1	19.51	PASS
Band12	5	23095	25	#0	16QAM	21.86	-0.1	19.61	PASS
Band12	5	23155	1	#0	QPSK	23.55	-0.1	21.30	PASS
Band12	5	23155	1	#Mid	QPSK	23.94	-0.1	21.69	PASS
Band12	5	23155	1	#Max	QPSK	23.56	-0.1	21.31	PASS
Band12	5	23155	12	#0	QPSK	22.58	-0.1	20.33	PASS
Band12	5	23155	12	#Mid	QPSK	22.76	-0.1	20.51	PASS
Band12	5	23155	12	#Max	QPSK	22.59	-0.1	20.34	PASS
Band12	5	23155	25	#0	QPSK	22.65	-0.1	20.40	PASS

Band12	5	23155	1	#0	16QAM	22.93	-0.1	20.68	PASS
Band12	5	23155	1	#Mid	16QAM	23.27	-0.1	21.02	PASS
Band12	5	23155	1	#Max	16QAM	22.94	-0.1	20.69	PASS
Band12	5	23155	12	#0	16QAM	21.71	-0.1	19.46	PASS
Band12	5	23155	12	#Mid	16QAM	21.87	-0.1	19.62	PASS
Band12	5	23155	12	#Max	16QAM	21.67	-0.1	19.42	PASS
Band12	5	23155	25	#0	16QAM	21.67	-0.1	19.42	PASS
Band12	10	23060	1	#0	QPSK	23.55	-0.1	21.30	PASS
Band12	10	23060	1	#Mid	QPSK	23.92	-0.1	21.67	PASS
Band12	10	23060	1	#Max	QPSK	23.79	-0.1	21.54	PASS
Band12	10	23060	25	#0	QPSK	22.81	-0.1	20.56	PASS
Band12	10	23060	25	#Mid	QPSK	22.78	-0.1	20.53	PASS
Band12	10	23060	25	#Max	QPSK	22.74	-0.1	20.49	PASS
Band12	10	23060	50	#0	QPSK	22.77	-0.1	20.52	PASS
Band12	10	23060	1	#0	16QAM	22.45	-0.1	20.20	PASS
Band12	10	23060	1	#Mid	16QAM	22.67	-0.1	20.42	PASS
Band12	10	23060	1	#Max	16QAM	22.58	-0.1	20.33	PASS
Band12	10	23060	25	#0	16QAM	21.87	-0.1	19.62	PASS
Band12	10	23060	25	#Mid	16QAM	21.84	-0.1	19.59	PASS
Band12	10	23060	25	#Max	16QAM	21.82	-0.1	19.57	PASS
Band12	10	23060	50	#0	16QAM	21.81	-0.1	19.56	PASS
Band12	10	23095	1	#0	QPSK	23.60	-0.1	21.35	PASS
Band12	10	23095	1	#Mid	QPSK	23.83	-0.1	21.58	PASS
Band12	10	23095	1	#Max	QPSK	23.63	-0.1	21.38	PASS
Band12	10	23095	25	#0	QPSK	22.81	-0.1	20.56	PASS
Band12	10	23095	25	#Mid	QPSK	22.71	-0.1	20.46	PASS
Band12	10	23095	25	#Max	QPSK	22.90	-0.1	20.65	PASS
Band12	10	23095	50	#0	QPSK	22.82	-0.1	20.57	PASS
Band12	10	23095	1	#0	16QAM	23.02	-0.1	20.77	PASS
Band12	10	23095	1	#Mid	16QAM	23.23	-0.1	20.98	PASS
Band12	10	23095	1	#Max	16QAM	23.11	-0.1	20.86	PASS
Band12	10	23095	25	#0	16QAM	21.89	-0.1	19.64	PASS
Band12	10	23095	25	#Mid	16QAM	21.84	-0.1	19.59	PASS
Band12	10	23095	25	#Max	16QAM	22.01	-0.1	19.76	PASS
Band12	10	23095	50	#0	16QAM	21.89	-0.1	19.64	PASS
Band12	10	23130	1	#0	QPSK	23.65	-0.1	21.40	PASS
Band12	10	23130	1	#Mid	QPSK	23.82	-0.1	21.57	PASS
Band12	10	23130	1	#Max	QPSK	23.67	-0.1	21.42	PASS
Band12	10	23130	25	#0	QPSK	22.60	-0.1	20.35	PASS
Band12	10	23130	25	#Mid	QPSK	22.72	-0.1	20.47	PASS
Band12	10	23130	25	#Max	QPSK	22.75	-0.1	20.50	PASS
Band12	10	23130	50	#0	QPSK	22.72	-0.1	20.47	PASS

Band12	10	23130	1	#0	16QAM	22.78	-0.1	20.53	PASS
Band12	10	23130	1	#Mid	16QAM	22.99	-0.1	20.74	PASS
Band12	10	23130	1	#Max	16QAM	22.80	-0.1	20.55	PASS
Band12	10	23130	25	#0	16QAM	21.67	-0.1	19.42	PASS
Band12	10	23130	25	#Mid	16QAM	21.82	-0.1	19.57	PASS
Band12	10	23130	25	#Max	16QAM	21.84	-0.1	19.59	PASS
Band12	10	23130	50	#0	16QAM	21.81	-0.1	19.56	PASS



Appendix 2. Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperatue (C)	Result (Hz)	Result (ppm)	Verdict
Band12	1.4	23017	6	#0	QPSK	LV	NT	-12.76	-0.018	PASS
Band12	1.4	23017	6	#0	QPSK	NV	NT	-10.33	-0.015	PASS
Band12	1.4	23017	6	#0	QPSK	HV	NT	-13.90	-0.020	PASS
Band12	1.4	23017	6	#0	16QAM	LV	NT	-8.71	-0.012	PASS
Band12	1.4	23017	6	#0	16QAM	NV	NT	-6.52	-0.009	PASS
Band12	1.4	23017	6	#0	16QAM	HV	NT	-7.77	-0.011	PASS
Band12	1.4	23095	6	#0	QPSK	LV	NT	-7.93	-0.011	PASS
Band12	1.4	23095	6	#0	QPSK	NV	NT	-8.17	-0.012	PASS
Band12	1.4	23095	6	#0	QPSK	HV	NT	-10.46	-0.015	PASS
Band12	1.4	23095	6	#0	16QAM	LV	NT	-4.85	-0.007	PASS
Band12	1.4	23095	6	#0	16QAM	NV	NT	-7.28	-0.010	PASS
Band12	1.4	23095	6	#0	16QAM	HV	NT	-6.98	-0.010	PASS
Band12	1.4	23173	6	#0	QPSK	LV	NT	2.90	0.004	PASS
Band12	1.4	23173	6	#0	QPSK	NV	NT	-1.00	-0.001	PASS
Band12	1.4	23173	6	#0	QPSK	HV	NT	-2.93	-0.004	PASS
Band12	1.4	23173	6	#0	16QAM	LV	NT	0.83	0.001	PASS
Band12	1.4	23173	6	#0	16QAM	NV	NT	-5.48	-0.008	PASS
Band12	1.4	23173	6	#0	16QAM	HV	NT	-4.12	-0.006	PASS
Band12	3	23025	15	#0	QPSK	LV	NT	-12.25	-0.017	PASS
Band12	3	23025	15	#0	QPSK	NV	NT	-13.10	-0.019	PASS
Band12	3	23025	15	#0	QPSK	HV	NT	-11.24	-0.016	PASS
Band12	3	23025	15	#0	16QAM	LV	NT	-5.81	-0.008	PASS
Band12	3	23025	15	#0	16QAM	NV	NT	-8.94	-0.013	PASS
Band12	3	23025	15	#0	16QAM	HV	NT	-5.38	-0.008	PASS
Band12	3	23095	15	#0	QPSK	LV	NT	-3.59	-0.005	PASS
Band12	3	23095	15	#0	QPSK	NV	NT	-5.52	-0.008	PASS
Band12	3	23095	15	#0	QPSK	HV	NT	-9.16	-0.013	PASS
Band12	3	23095	15	#0	16QAM	LV	NT	-7.35	-0.010	PASS
Band12	3	23095	15	#0	16QAM	NV	NT	-1.60	-0.002	PASS
Band12	3	23095	15	#0	16QAM	HV	NT	-0.10	0.000	PASS
Band12	3	23165	15	#0	QPSK	LV	NT	-6.19	-0.009	PASS
Band12	3	23165	15	#0	QPSK	NV	NT	-4.46	-0.006	PASS
Band12	3	23165	15	#0	QPSK	HV	NT	-6.29	-0.009	PASS
Band12	3	23165	15	#0	16QAM	LV	NT	-5.48	-0.008	PASS
Band12	3	23165	15	#0	16QAM	NV	NT	-1.36	-0.002	PASS
Band12	3	23165	15	#0	16QAM	HV	NT	-5.89	-0.008	PASS
Band12	5	23035	25	#0	QPSK	LV	NT	-6.52	-0.009	PASS

Band12	5	23035	25	#0	QPSK	NV	NT	-3.60	-0.005	PASS
Band12	5	23035	25	#0	QPSK	HV	NT	-9.48	-0.014	PASS
Band12	5	23035	25	#0	16QAM	LV	NT	-4.33	-0.006	PASS
Band12	5	23035	25	#0	16QAM	NV	NT	-6.05	-0.009	PASS
Band12	5	23035	25	#0	16QAM	HV	NT	-5.48	-0.008	PASS
Band12	5	23095	25	#0	QPSK	LV	NT	-4.75	-0.007	PASS
Band12	5	23095	25	#0	QPSK	NV	NT	-10.06	-0.014	PASS
Band12	5	23095	25	#0	QPSK	HV	NT	-7.32	-0.010	PASS
Band12	5	23095	25	#0	16QAM	LV	NT	-10.69	-0.015	PASS
Band12	5	23095	25	#0	16QAM	NV	NT	-3.59	-0.005	PASS
Band12	5	23095	25	#0	16QAM	HV	NT	-4.85	-0.007	PASS
Band12	5	23155	25	#0	QPSK	LV	NT	-6.19	-0.009	PASS
Band12	5	23155	25	#0	QPSK	NV	NT	-8.14	-0.011	PASS
Band12	5	23155	25	#0	QPSK	HV	NT	-9.40	-0.013	PASS
Band12	5	23155	25	#0	16QAM	LV	NT	-8.40	-0.012	PASS
Band12	5	23155	25	#0	16QAM	NV	NT	-7.32	-0.010	PASS
Band12	5	23155	25	#0	16QAM	HV	NT	-4.39	-0.006	PASS
Band12	10	23060	50	#0	QPSK	LV	NT	-7.75	-0.011	PASS
Band12	10	23060	50	#0	QPSK	NV	NT	-6.65	-0.009	PASS
Band12	10	23060	50	#0	QPSK	HV	NT	-4.76	-0.007	PASS
Band12	10	23060	50	#0	16QAM	LV	NT	-4.56	-0.006	PASS
Band12	10	23060	50	#0	16QAM	NV	NT	-4.66	-0.007	PASS
Band12	10	23060	50	#0	16QAM	HV	NT	-6.19	-0.009	PASS
Band12	10	23095	50	#0	QPSK	LV	NT	-3.91	-0.006	PASS
Band12	10	23095	50	#0	QPSK	NV	NT	-6.67	-0.009	PASS
Band12	10	23095	50	#0	QPSK	HV	NT	-6.82	-0.010	PASS
Band12	10	23095	50	#0	16QAM	LV	NT	-5.69	-0.008	PASS
Band12	10	23095	50	#0	16QAM	NV	NT	-6.82	-0.010	PASS
Band12	10	23095	50	#0	16QAM	HV	NT	-6.65	-0.009	PASS
Band12	10	23130	50	#0	QPSK	LV	NT	-2.49	-0.004	PASS
Band12	10	23130	50	#0	QPSK	NV	NT	-5.72	-0.008	PASS
Band12	10	23130	50	#0	QPSK	HV	NT	-5.91	-0.008	PASS
Band12	10	23130	50	#0	16QAM	LV	NT	-4.22	-0.006	PASS
Band12	10	23130	50	#0	16QAM	NV	NT	-4.91	-0.007	PASS
Band12	10	23130	50	#0	16QAM	HV	NT	-0.80	-0.001	PASS

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (C)	Result (Hz)	Result (ppm)	Verdict
Band12	1.4	23017	6	#0	QPSK	NV	-30	-12.69	-0.018	PASS
Band12	1.4	23017	6	#0	QPSK	NV	-20	-12.63	-0.018	PASS
Band12	1.4	23017	6	#0	QPSK	NV	-10	-10.87	-0.016	PASS
Band12	1.4	23017	6	#0	QPSK	NV	0	-10.21	-0.015	PASS

Band12	1.4	23017	6	#0	QPSK	NV	10	-8.54	-0.012	PASS
Band12	1.4	23017	6	#0	QPSK	NV	20	-10.94	-0.016	PASS
Band12	1.4	23017	6	#0	QPSK	NV	30	-4.88	-0.007	PASS
Band12	1.4	23017	6	#0	QPSK	NV	40	-4.33	-0.006	PASS
Band12	1.4	23017	6	#0	QPSK	NV	50	-7.91	-0.011	PASS
Band12	1.4	23017	6	#0	16QAM	NV	-30	-9.48	-0.014	PASS
Band12	1.4	23017	6	#0	16QAM	NV	-20	-6.39	-0.009	PASS
Band12	1.4	23017	6	#0	16QAM	NV	-10	-5.02	-0.007	PASS
Band12	1.4	23017	6	#0	16QAM	NV	0	-7.40	-0.011	PASS
Band12	1.4	23017	6	#0	16QAM	NV	10	-3.45	-0.005	PASS
Band12	1.4	23017	6	#0	16QAM	NV	20	-1.56	-0.002	PASS
Band12	1.4	23017	6	#0	16QAM	NV	30	-4.85	-0.007	PASS
Band12	1.4	23017	6	#0	16QAM	NV	40	-7.48	-0.011	PASS
Band12	1.4	23017	6	#0	16QAM	NV	50	-8.97	-0.013	PASS
Band12	1.4	23095	6	#0	QPSK	NV	-30	-7.37	-0.010	PASS
Band12	1.4	23095	6	#0	QPSK	NV	-20	-4.36	-0.006	PASS
Band12	1.4	23095	6	#0	QPSK	NV	-10	-6.18	-0.009	PASS
Band12	1.4	23095	6	#0	QPSK	NV	0	-4.19	-0.006	PASS
Band12	1.4	23095	6	#0	QPSK	NV	10	-4.98	-0.007	PASS
Band12	1.4	23095	6	#0	QPSK	NV	20	-4.94	-0.007	PASS
Band12	1.4	23095	6	#0	QPSK	NV	30	-0.73	-0.001	PASS
Band12	1.4	23095	6	#0	QPSK	NV	40	-3.52	-0.005	PASS
Band12	1.4	23095	6	#0	QPSK	NV	50	-8.37	-0.012	PASS
Band12	1.4	23095	6	#0	16QAM	NV	-30	-6.61	-0.009	PASS
Band12	1.4	23095	6	#0	16QAM	NV	-20	-2.62	-0.004	PASS
Band12	1.4	23095	6	#0	16QAM	NV	-10	-3.78	-0.005	PASS
Band12	1.4	23095	6	#0	16QAM	NV	0	-4.84	-0.007	PASS
Band12	1.4	23095	6	#0	16QAM	NV	10	-8.23	-0.012	PASS
Band12	1.4	23095	6	#0	16QAM	NV	20	-3.42	-0.005	PASS
Band12	1.4	23095	6	#0	16QAM	NV	30	-6.27	-0.009	PASS
Band12	1.4	23095	6	#0	16QAM	NV	40	-6.47	-0.009	PASS
Band12	1.4	23095	6	#0	16QAM	NV	50	-8.45	-0.012	PASS
Band12	1.4	23173	6	#0	QPSK	NV	-30	-4.43	-0.006	PASS
Band12	1.4	23173	6	#0	QPSK	NV	-20	-2.16	-0.003	PASS
Band12	1.4	23173	6	#0	QPSK	NV	-10	-3.19	-0.004	PASS
Band12	1.4	23173	6	#0	QPSK	NV	0	-0.76	-0.001	PASS
Band12	1.4	23173	6	#0	QPSK	NV	10	-4.26	-0.006	PASS
Band12	1.4	23173	6	#0	QPSK	NV	20	-3.96	-0.006	PASS
Band12	1.4	23173	6	#0	QPSK	NV	30	-6.61	-0.009	PASS
Band12	1.4	23173	6	#0	QPSK	NV	40	-6.08	-0.008	PASS
Band12	1.4	23173	6	#0	QPSK	NV	50	-7.17	-0.010	PASS
Band12	1.4	23173	6	#0	16QAM	NV	-30	-3.00	-0.004	PASS

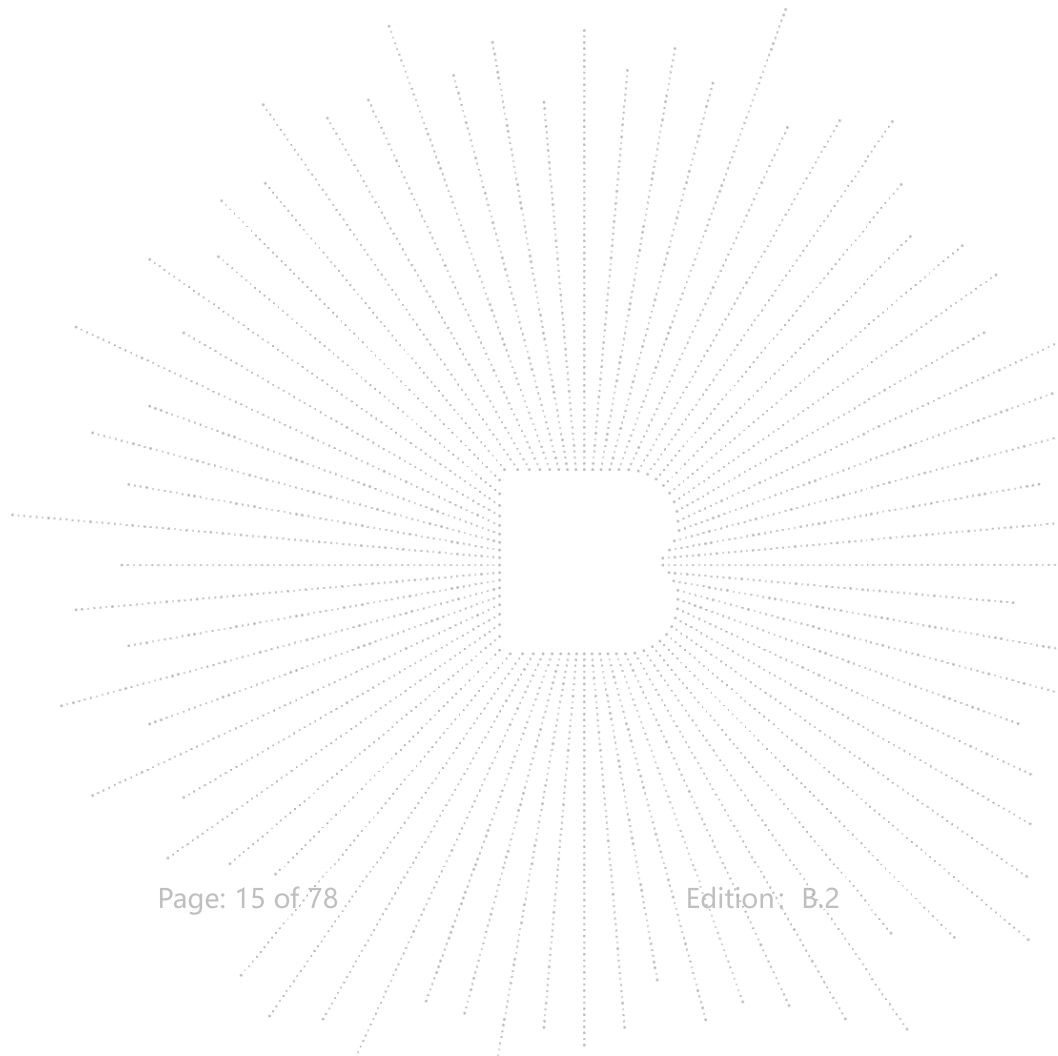
Band12	1.4	23173	6	#0	16QAM	NV	-20	-4.85	-0.007	PASS
Band12	1.4	23173	6	#0	16QAM	NV	-10	-1.77	-0.002	PASS
Band12	1.4	23173	6	#0	16QAM	NV	0	-4.73	-0.007	PASS
Band12	1.4	23173	6	#0	16QAM	NV	10	-4.09	-0.006	PASS
Band12	1.4	23173	6	#0	16QAM	NV	20	-1.62	-0.002	PASS
Band12	1.4	23173	6	#0	16QAM	NV	30	-7.67	-0.011	PASS
Band12	1.4	23173	6	#0	16QAM	NV	40	-3.33	-0.005	PASS
Band12	1.4	23173	6	#0	16QAM	NV	50	-2.65	-0.004	PASS
Band12	3	23025	15	#0	QPSK	NV	-30	-11.14	-0.016	PASS
Band12	3	23025	15	#0	QPSK	NV	-20	-9.37	-0.013	PASS
Band12	3	23025	15	#0	QPSK	NV	-10	-8.50	-0.012	PASS
Band12	3	23025	15	#0	QPSK	NV	0	-3.89	-0.006	PASS
Band12	3	23025	15	#0	QPSK	NV	10	-5.85	-0.008	PASS
Band12	3	23025	15	#0	QPSK	NV	20	-3.83	-0.005	PASS
Band12	3	23025	15	#0	QPSK	NV	30	-4.28	-0.006	PASS
Band12	3	23025	15	#0	QPSK	NV	40	-5.55	-0.008	PASS
Band12	3	23025	15	#0	QPSK	NV	50	-6.72	-0.010	PASS
Band12	3	23025	15	#0	16QAM	NV	-30	-4.89	-0.007	PASS
Band12	3	23025	15	#0	16QAM	NV	-20	-8.28	-0.012	PASS
Band12	3	23025	15	#0	16QAM	NV	-10	-6.27	-0.009	PASS
Band12	3	23025	15	#0	16QAM	NV	0	-6.25	-0.009	PASS
Band12	3	23025	15	#0	16QAM	NV	10	-4.71	-0.007	PASS
Band12	3	23025	15	#0	16QAM	NV	20	-8.97	-0.013	PASS
Band12	3	23025	15	#0	16QAM	NV	30	-9.60	-0.014	PASS
Band12	3	23025	15	#0	16QAM	NV	40	-5.16	-0.007	PASS
Band12	3	23025	15	#0	16QAM	NV	50	-4.65	-0.007	PASS
Band12	3	23095	15	#0	QPSK	NV	-30	-7.64	-0.011	PASS
Band12	3	23095	15	#0	QPSK	NV	-20	-4.46	-0.006	PASS
Band12	3	23095	15	#0	QPSK	NV	-10	-1.76	-0.002	PASS
Band12	3	23095	15	#0	QPSK	NV	0	-6.24	-0.009	PASS
Band12	3	23095	15	#0	QPSK	NV	10	-3.75	-0.005	PASS
Band12	3	23095	15	#0	QPSK	NV	20	-5.19	-0.007	PASS
Band12	3	23095	15	#0	QPSK	NV	30	-3.68	-0.005	PASS
Band12	3	23095	15	#0	QPSK	NV	40	-3.91	-0.006	PASS
Band12	3	23095	15	#0	QPSK	NV	50	-4.18	-0.006	PASS
Band12	3	23095	15	#0	16QAM	NV	-30	-3.33	-0.005	PASS
Band12	3	23095	15	#0	16QAM	NV	-20	-4.73	-0.007	PASS
Band12	3	23095	15	#0	16QAM	NV	-10	-1.62	-0.002	PASS
Band12	3	23095	15	#0	16QAM	NV	0	-3.99	-0.006	PASS
Band12	3	23095	15	#0	16QAM	NV	10	-3.29	-0.005	PASS
Band12	3	23095	15	#0	16QAM	NV	20	-6.71	-0.009	PASS
Band12	3	23095	15	#0	16QAM	NV	30	-5.52	-0.008	PASS

Band12	3	23095	15	#0	16QAM	NV	40	-7.17	-0.010	PASS
Band12	3	23095	15	#0	16QAM	NV	50	-4.81	-0.007	PASS
Band12	3	23165	15	#0	QPSK	NV	-30	-7.04	-0.010	PASS
Band12	3	23165	15	#0	QPSK	NV	-20	-9.93	-0.014	PASS
Band12	3	23165	15	#0	QPSK	NV	-10	-9.77	-0.014	PASS
Band12	3	23165	15	#0	QPSK	NV	0	-6.47	-0.009	PASS
Band12	3	23165	15	#0	QPSK	NV	10	-7.11	-0.010	PASS
Band12	3	23165	15	#0	QPSK	NV	20	-6.85	-0.010	PASS
Band12	3	23165	15	#0	QPSK	NV	30	-6.87	-0.010	PASS
Band12	3	23165	15	#0	QPSK	NV	40	-8.70	-0.012	PASS
Band12	3	23165	15	#0	QPSK	NV	50	-8.18	-0.011	PASS
Band12	3	23165	15	#0	16QAM	NV	-30	-1.86	-0.003	PASS
Band12	3	23165	15	#0	16QAM	NV	-20	-2.02	-0.003	PASS
Band12	3	23165	15	#0	16QAM	NV	-10	-2.49	-0.003	PASS
Band12	3	23165	15	#0	16QAM	NV	0	-5.16	-0.007	PASS
Band12	3	23165	15	#0	16QAM	NV	10	-1.07	-0.001	PASS
Band12	3	23165	15	#0	16QAM	NV	20	-7.41	-0.010	PASS
Band12	3	23165	15	#0	16QAM	NV	30	-4.56	-0.006	PASS
Band12	3	23165	15	#0	16QAM	NV	40	-2.88	-0.004	PASS
Band12	3	23165	15	#0	16QAM	NV	50	-3.89	-0.005	PASS
Band12	5	23035	25	#0	QPSK	NV	-30	-10.27	-0.015	PASS
Band12	5	23035	25	#0	QPSK	NV	-20	-7.05	-0.010	PASS
Band12	5	23035	25	#0	QPSK	NV	-10	-6.14	-0.009	PASS
Band12	5	23035	25	#0	QPSK	NV	0	-11.60	-0.017	PASS
Band12	5	23035	25	#0	QPSK	NV	10	-4.28	-0.006	PASS
Band12	5	23035	25	#0	QPSK	NV	20	-4.94	-0.007	PASS
Band12	5	23035	25	#0	QPSK	NV	30	-8.81	-0.013	PASS
Band12	5	23035	25	#0	QPSK	NV	40	-7.44	-0.011	PASS
Band12	5	23035	25	#0	QPSK	NV	50	-7.57	-0.011	PASS
Band12	5	23035	25	#0	16QAM	NV	-30	-4.98	-0.007	PASS
Band12	5	23035	25	#0	16QAM	NV	-20	-10.63	-0.015	PASS
Band12	5	23035	25	#0	16QAM	NV	-10	-1.89	-0.003	PASS
Band12	5	23035	25	#0	16QAM	NV	0	-10.04	-0.014	PASS
Band12	5	23035	25	#0	16QAM	NV	10	-4.78	-0.007	PASS
Band12	5	23035	25	#0	16QAM	NV	20	-5.32	-0.008	PASS
Band12	5	23035	25	#0	16QAM	NV	30	-5.84	-0.008	PASS
Band12	5	23035	25	#0	16QAM	NV	40	-3.92	-0.006	PASS
Band12	5	23035	25	#0	16QAM	NV	50	-8.74	-0.012	PASS
Band12	5	23095	25	#0	QPSK	NV	-30	-8.70	-0.012	PASS
Band12	5	23095	25	#0	QPSK	NV	-20	-5.92	-0.008	PASS
Band12	5	23095	25	#0	QPSK	NV	-10	-7.35	-0.010	PASS
Band12	5	23095	25	#0	QPSK	NV	0	-1.75	-0.002	PASS

Band12	5	23095	25	#0	QPSK	NV	10	-5.52	-0.008	PASS
Band12	5	23095	25	#0	QPSK	NV	20	-4.89	-0.007	PASS
Band12	5	23095	25	#0	QPSK	NV	30	-6.61	-0.009	PASS
Band12	5	23095	25	#0	QPSK	NV	40	-7.78	-0.011	PASS
Band12	5	23095	25	#0	QPSK	NV	50	-5.68	-0.008	PASS
Band12	5	23095	25	#0	16QAM	NV	-30	-3.79	-0.005	PASS
Band12	5	23095	25	#0	16QAM	NV	-20	-5.61	-0.008	PASS
Band12	5	23095	25	#0	16QAM	NV	-10	-3.82	-0.005	PASS
Band12	5	23095	25	#0	16QAM	NV	0	-6.74	-0.010	PASS
Band12	5	23095	25	#0	16QAM	NV	10	-9.84	-0.014	PASS
Band12	5	23095	25	#0	16QAM	NV	20	-5.05	-0.007	PASS
Band12	5	23095	25	#0	16QAM	NV	30	-7.45	-0.011	PASS
Band12	5	23095	25	#0	16QAM	NV	40	-6.09	-0.009	PASS
Band12	5	23095	25	#0	16QAM	NV	50	-3.36	-0.005	PASS
Band12	5	23155	25	#0	QPSK	NV	-30	-7.24	-0.010	PASS
Band12	5	23155	25	#0	QPSK	NV	-20	-4.11	-0.006	PASS
Band12	5	23155	25	#0	QPSK	NV	-10	-1.16	-0.002	PASS
Band12	5	23155	25	#0	QPSK	NV	0	-5.91	-0.008	PASS
Band12	5	23155	25	#0	QPSK	NV	10	-10.70	-0.015	PASS
Band12	5	23155	25	#0	QPSK	NV	20	-3.72	-0.005	PASS
Band12	5	23155	25	#0	QPSK	NV	30	-5.38	-0.008	PASS
Band12	5	23155	25	#0	QPSK	NV	40	-8.24	-0.012	PASS
Band12	5	23155	25	#0	QPSK	NV	50	-4.06	-0.006	PASS
Band12	5	23155	25	#0	16QAM	NV	-30	-4.71	-0.007	PASS
Band12	5	23155	25	#0	16QAM	NV	-20	-2.46	-0.003	PASS
Band12	5	23155	25	#0	16QAM	NV	-10	-3.85	-0.005	PASS
Band12	5	23155	25	#0	16QAM	NV	0	-6.24	-0.009	PASS
Band12	5	23155	25	#0	16QAM	NV	10	-2.07	-0.003	PASS
Band12	5	23155	25	#0	16QAM	NV	20	-5.28	-0.007	PASS
Band12	5	23155	25	#0	16QAM	NV	30	-8.68	-0.012	PASS
Band12	5	23155	25	#0	16QAM	NV	40	-3.15	-0.004	PASS
Band12	5	23155	25	#0	16QAM	NV	50	-7.55	-0.011	PASS
Band12	10	23060	50	#0	QPSK	NV	-30	-7.47	-0.011	PASS
Band12	10	23060	50	#0	QPSK	NV	-20	-5.19	-0.007	PASS
Band12	10	23060	50	#0	QPSK	NV	-10	-5.69	-0.008	PASS
Band12	10	23060	50	#0	QPSK	NV	0	-7.62	-0.011	PASS
Band12	10	23060	50	#0	QPSK	NV	10	-7.30	-0.010	PASS
Band12	10	23060	50	#0	QPSK	NV	20	-4.26	-0.006	PASS
Band12	10	23060	50	#0	QPSK	NV	30	-6.57	-0.009	PASS
Band12	10	23060	50	#0	QPSK	NV	40	-10.36	-0.015	PASS
Band12	10	23060	50	#0	QPSK	NV	50	-4.61	-0.007	PASS
Band12	10	23060	50	#0	16QAM	NV	-30	-4.21	-0.006	PASS

Band12	10	23060	50	#0	16QAM	NV	-20	-5.11	-0.007	PASS
Band12	10	23060	50	#0	16QAM	NV	-10	-6.52	-0.009	PASS
Band12	10	23060	50	#0	16QAM	NV	0	-5.46	-0.008	PASS
Band12	10	23060	50	#0	16QAM	NV	10	-4.29	-0.006	PASS
Band12	10	23060	50	#0	16QAM	NV	20	-7.44	-0.011	PASS
Band12	10	23060	50	#0	16QAM	NV	30	-5.98	-0.008	PASS
Band12	10	23060	50	#0	16QAM	NV	40	-10.27	-0.015	PASS
Band12	10	23060	50	#0	16QAM	NV	50	-7.55	-0.011	PASS
Band12	10	23095	50	#0	QPSK	NV	-30	-9.30	-0.013	PASS
Band12	10	23095	50	#0	QPSK	NV	-20	-6.98	-0.010	PASS
Band12	10	23095	50	#0	QPSK	NV	-10	-4.88	-0.007	PASS
Band12	10	23095	50	#0	QPSK	NV	0	-4.61	-0.007	PASS
Band12	10	23095	50	#0	QPSK	NV	10	-5.64	-0.008	PASS
Band12	10	23095	50	#0	QPSK	NV	20	-5.12	-0.007	PASS
Band12	10	23095	50	#0	QPSK	NV	30	-5.54	-0.008	PASS
Band12	10	23095	50	#0	QPSK	NV	40	-8.07	-0.011	PASS
Band12	10	23095	50	#0	QPSK	NV	50	-4.36	-0.006	PASS
Band12	10	23095	50	#0	16QAM	NV	-30	-6.42	-0.009	PASS
Band12	10	23095	50	#0	16QAM	NV	-20	-6.67	-0.009	PASS
Band12	10	23095	50	#0	16QAM	NV	-10	-7.95	-0.011	PASS
Band12	10	23095	50	#0	16QAM	NV	0	-7.04	-0.010	PASS
Band12	10	23095	50	#0	16QAM	NV	10	-6.81	-0.010	PASS
Band12	10	23095	50	#0	16QAM	NV	20	-6.79	-0.010	PASS
Band12	10	23095	50	#0	16QAM	NV	30	-6.15	-0.009	PASS
Band12	10	23095	50	#0	16QAM	NV	40	-7.15	-0.010	PASS
Band12	10	23095	50	#0	16QAM	NV	50	-5.65	-0.008	PASS
Band12	10	23130	50	#0	QPSK	NV	-30	-6.25	-0.009	PASS
Band12	10	23130	50	#0	QPSK	NV	-20	-7.42	-0.010	PASS
Band12	10	23130	50	#0	QPSK	NV	-10	-7.27	-0.010	PASS
Band12	10	23130	50	#0	QPSK	NV	0	-6.57	-0.009	PASS
Band12	10	23130	50	#0	QPSK	NV	10	-6.34	-0.009	PASS
Band12	10	23130	50	#0	QPSK	NV	20	-6.65	-0.009	PASS
Band12	10	23130	50	#0	QPSK	NV	30	-4.66	-0.007	PASS
Band12	10	23130	50	#0	QPSK	NV	40	-5.24	-0.007	PASS
Band12	10	23130	50	#0	QPSK	NV	50	-5.98	-0.008	PASS
Band12	10	23130	50	#0	16QAM	NV	-30	-6.42	-0.009	PASS
Band12	10	23130	50	#0	16QAM	NV	-20	-6.44	-0.009	PASS
Band12	10	23130	50	#0	16QAM	NV	-10	-6.04	-0.008	PASS
Band12	10	23130	50	#0	16QAM	NV	0	-6.22	-0.009	PASS
Band12	10	23130	50	#0	16QAM	NV	10	-5.89	-0.008	PASS
Band12	10	23130	50	#0	16QAM	NV	20	-7.31	-0.010	PASS
Band12	10	23130	50	#0	16QAM	NV	30	-5.48	-0.008	PASS

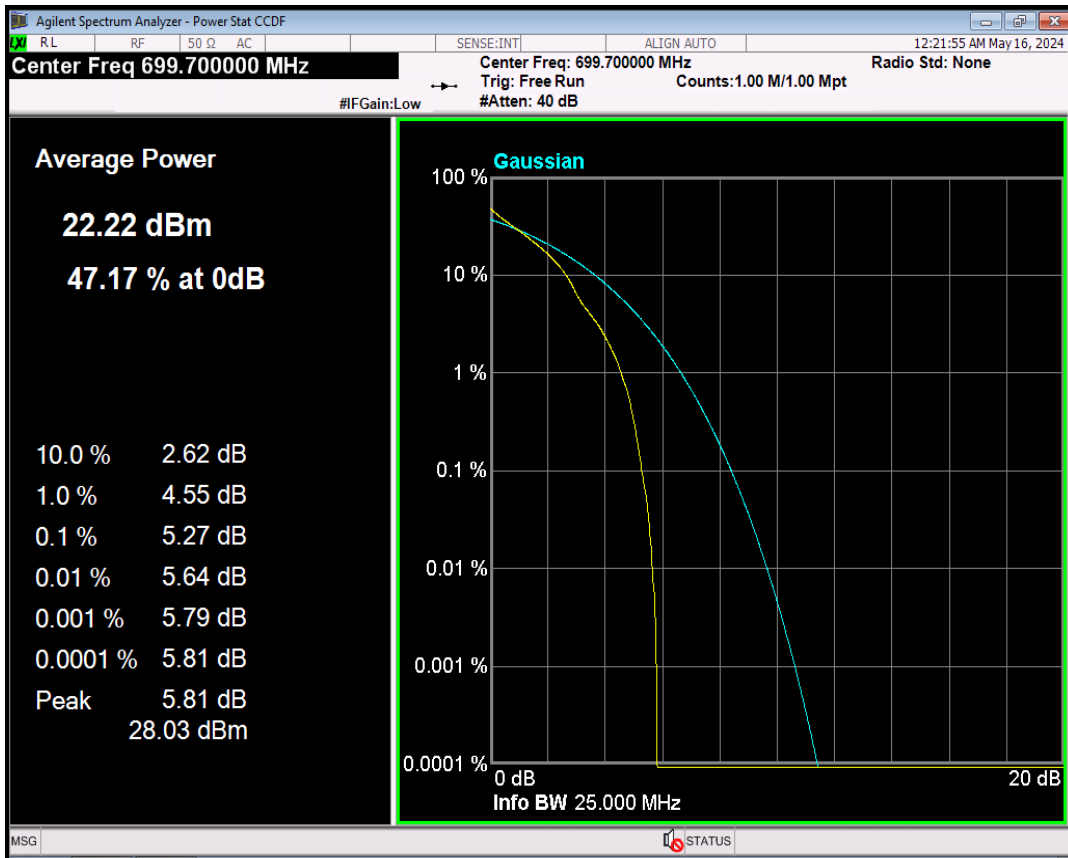
Band12	10	23130	50	#0	16QAM	NV	40	-8.60	-0.012	PASS
Band12	10	23130	50	#0	16QAM	NV	50	-8.83	-0.012	PASS



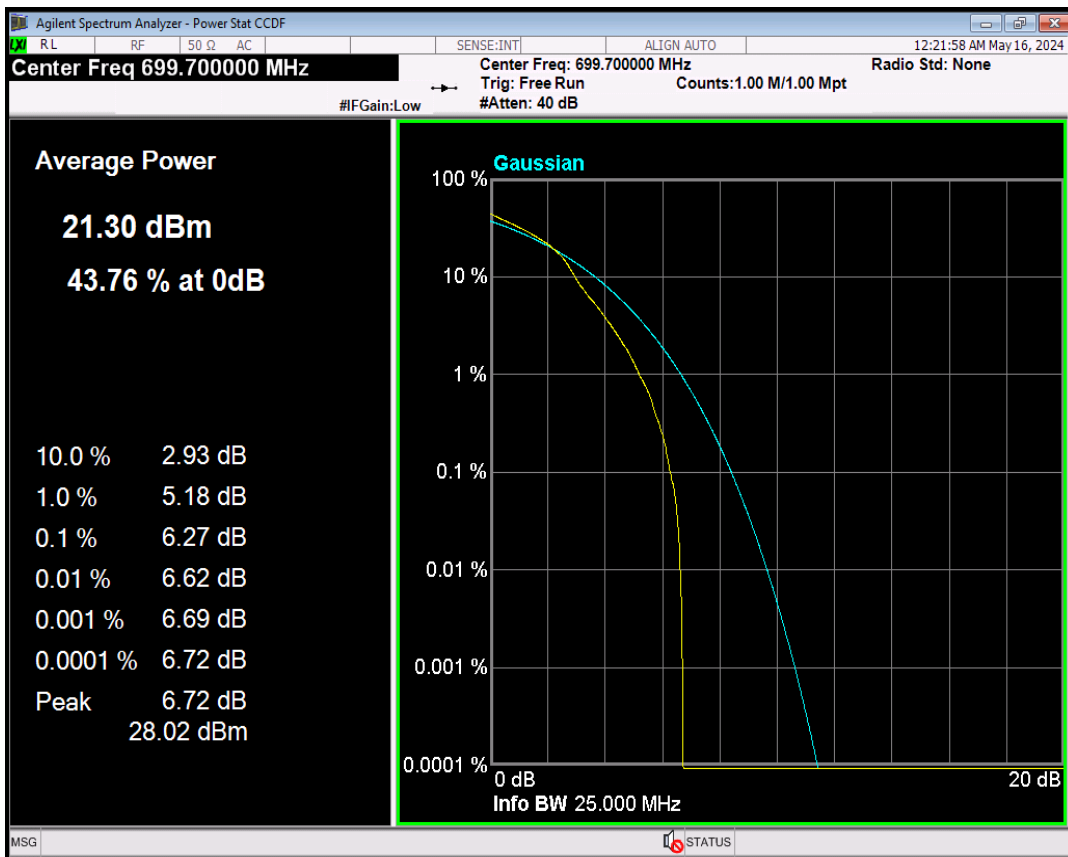
Appendix 3. Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band12	1.4	23017	1	#0	QPSK	5.27	13	PASS
Band12	1.4	23017	1	#0	16QAM	6.27	13	PASS
Band12	1.4	23095	1	#0	QPSK	3.95	13	PASS
Band12	1.4	23095	1	#0	16QAM	4.86	13	PASS
Band12	1.4	23173	1	#0	QPSK	4.59	13	PASS
Band12	1.4	23173	1	#0	16QAM	5.46	13	PASS
Band12	3	23025	1	#0	QPSK	5.25	13	PASS
Band12	3	23025	1	#0	16QAM	6.07	13	PASS
Band12	3	23095	1	#0	QPSK	3.45	13	PASS
Band12	3	23095	1	#0	16QAM	4.48	13	PASS
Band12	3	23165	1	#0	QPSK	4.50	13	PASS
Band12	3	23165	1	#0	16QAM	5.23	13	PASS
Band12	5	23035	1	#0	QPSK	5.12	13	PASS
Band12	5	23035	1	#0	16QAM	5.84	13	PASS
Band12	5	23095	1	#0	QPSK	3.49	13	PASS
Band12	5	23095	1	#0	16QAM	4.29	13	PASS
Band12	5	23155	1	#0	QPSK	5.08	13	PASS
Band12	5	23155	1	#0	16QAM	5.64	13	PASS
Band12	10	23060	1	#0	QPSK	5.28	13	PASS
Band12	10	23060	1	#0	16QAM	5.94	13	PASS
Band12	10	23095	1	#0	QPSK	4.31	13	PASS
Band12	10	23095	1	#0	16QAM	5.30	13	PASS
Band12	10	23130	1	#0	QPSK	3.60	13	PASS
Band12	10	23130	1	#0	16QAM	4.57	13	PASS

Band12 QPSK BW=1.4MHz Channel=23017 RB Size=1 Position=#0

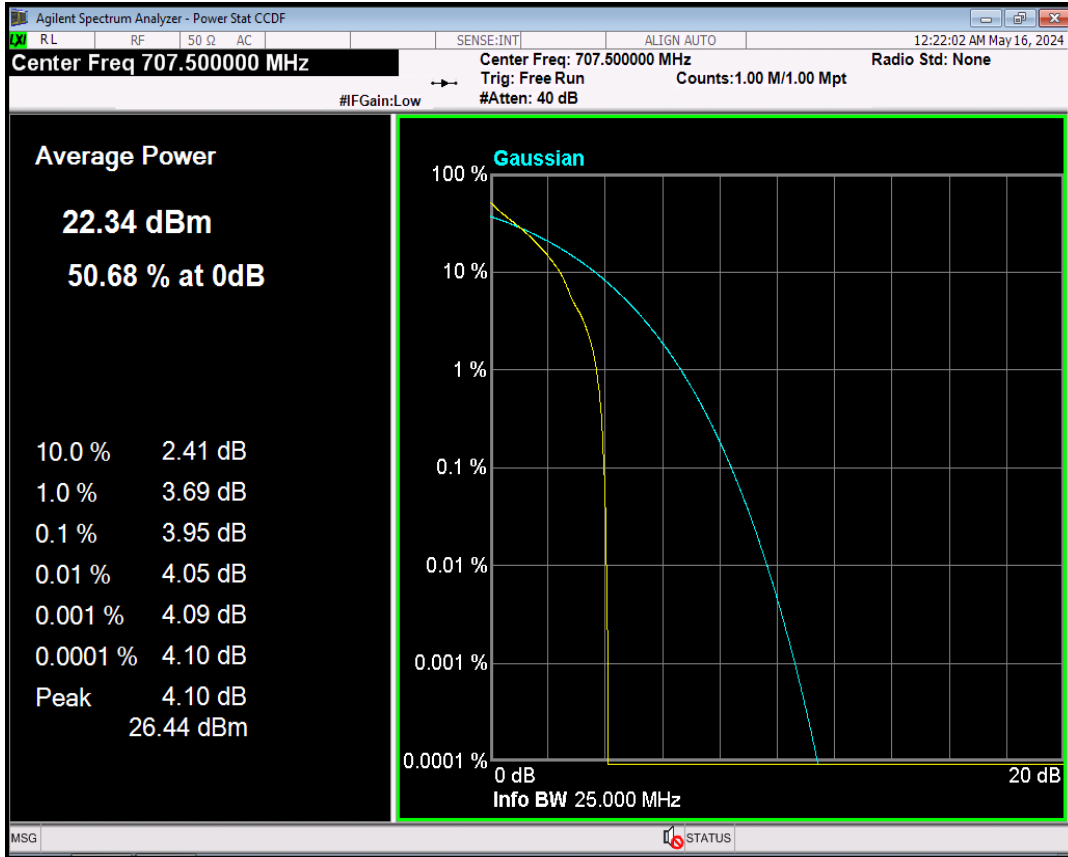


Band12 16QAM BW=1.4MHz Channel=23017 RB Size=1 Position=#0

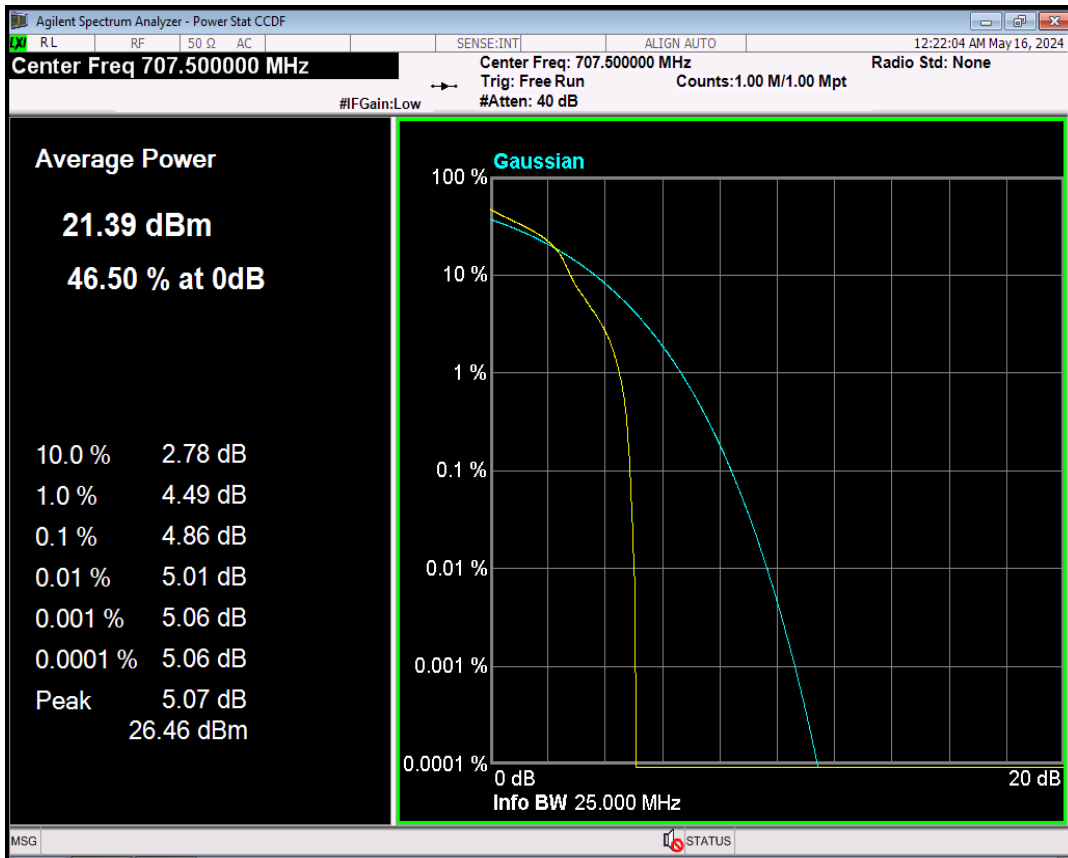




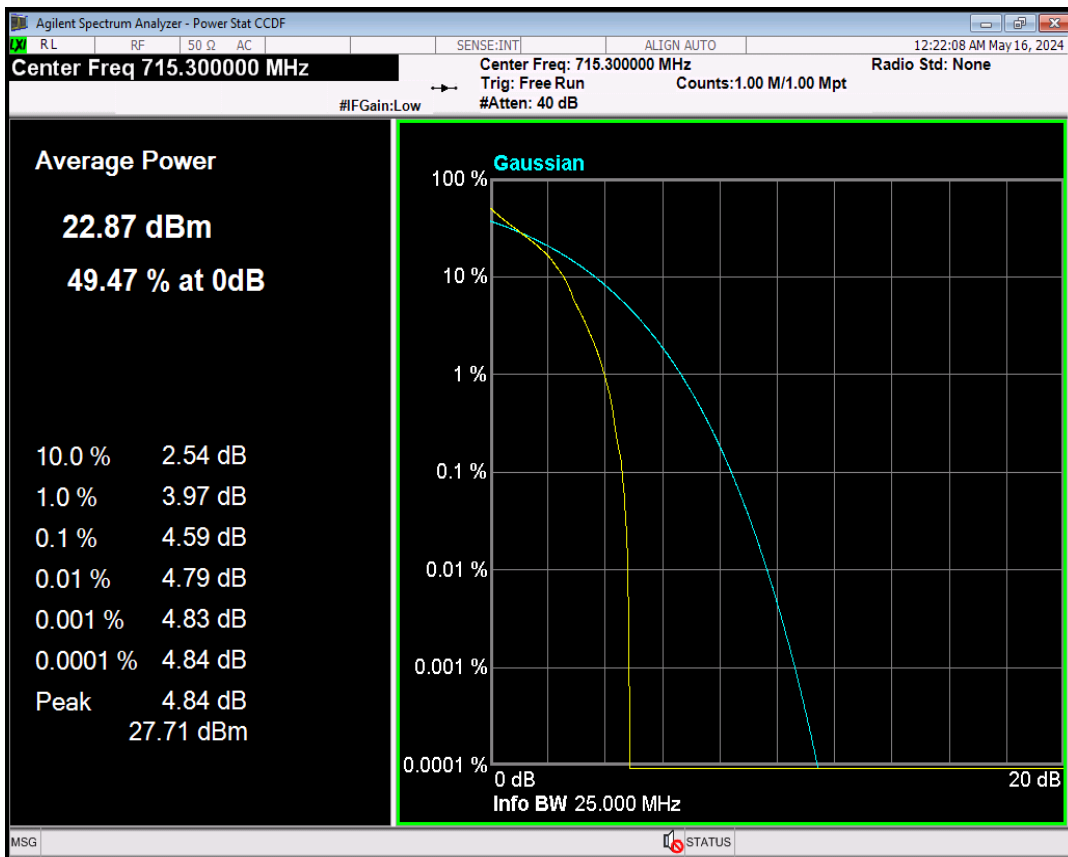
Band12 QPSK BW=1.4MHz Channel=23095 RB Size=1 Position=#0



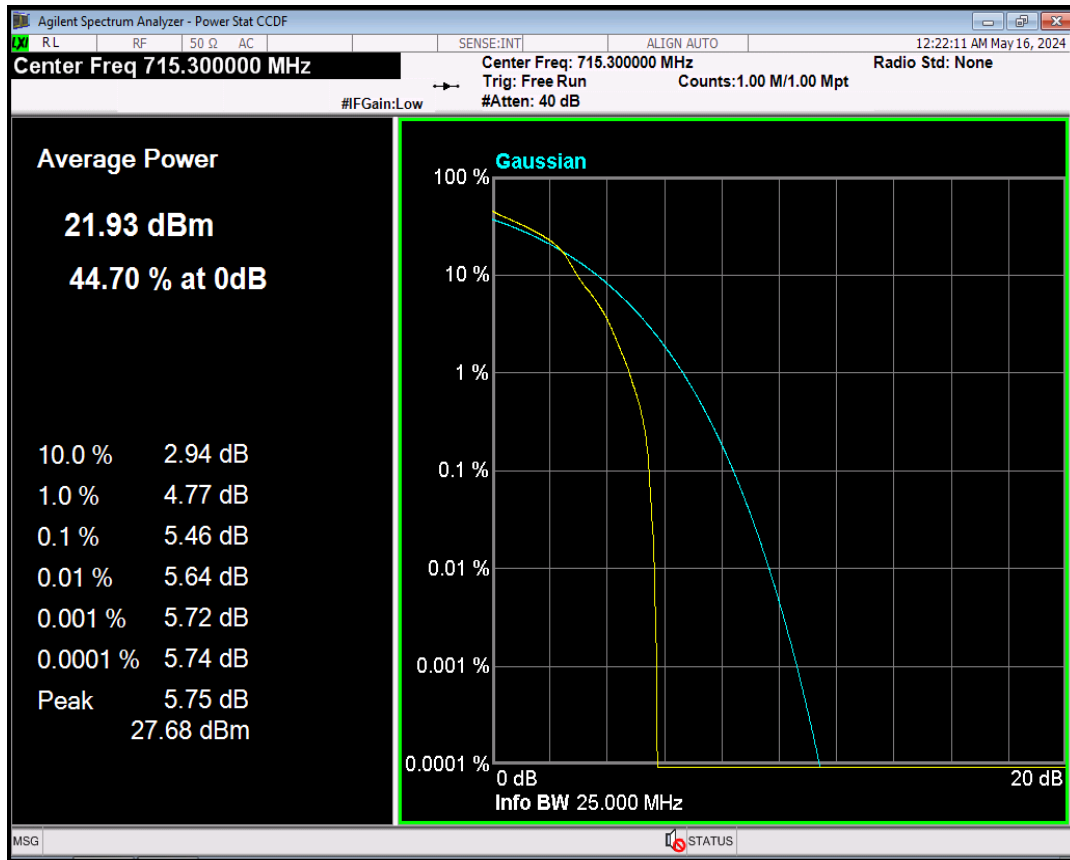
Band12 16QAM BW=1.4MHz Channel=23095 RB Size=1 Position=#0



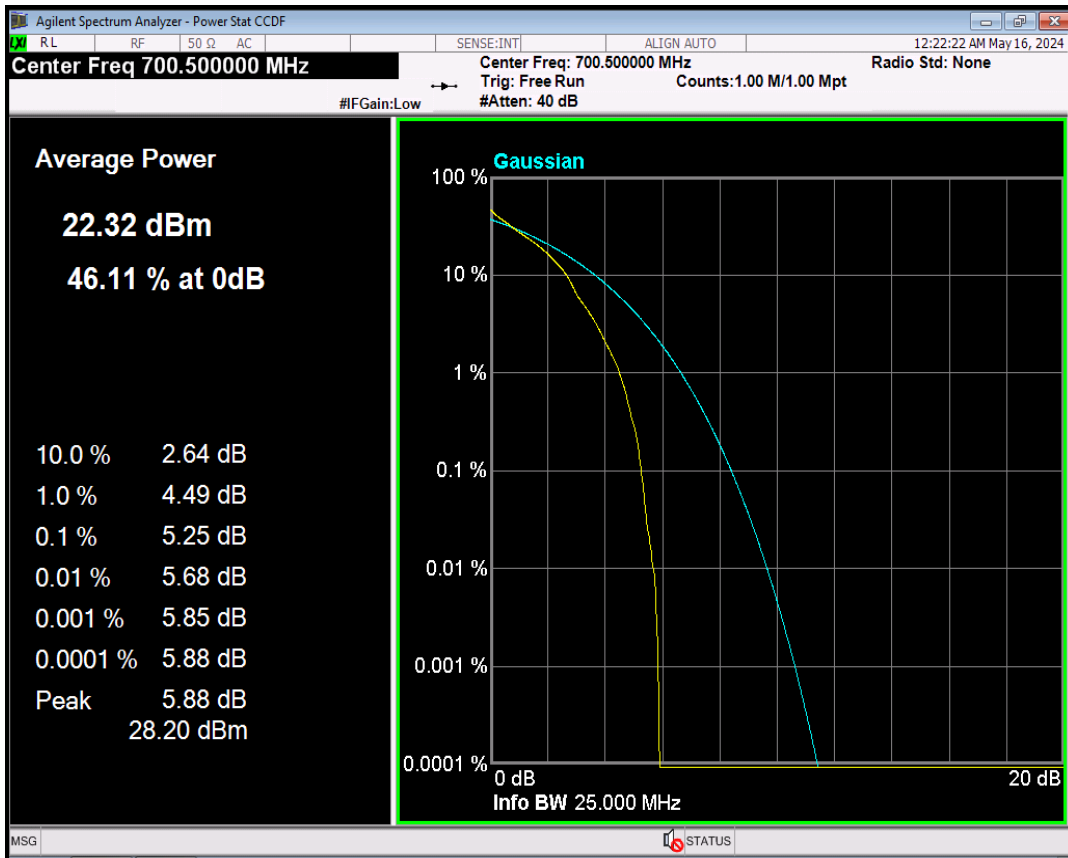
Band12 QPSK BW=1.4MHz Channel=23173 RB Size=1 Position=#0



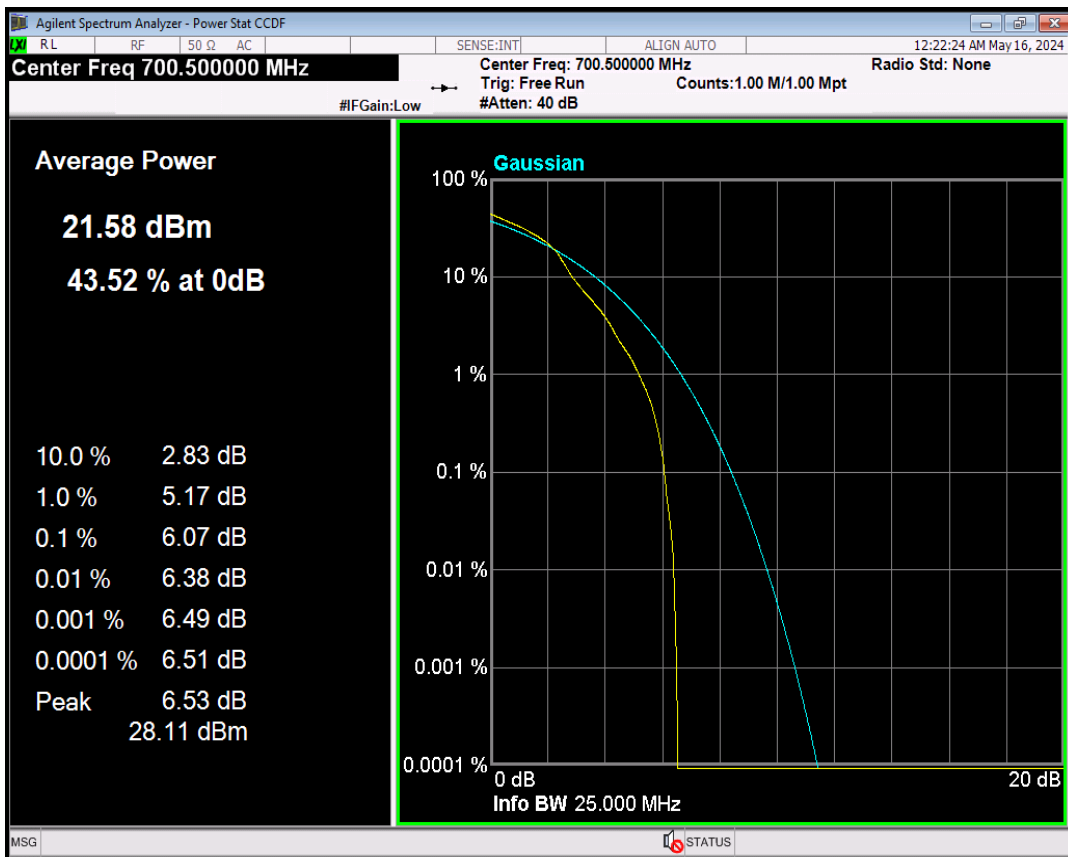
Band12 16QAM BW=1.4MHz Channel=23173 RB Size=1 Position=#0



Band12 QPSK BW=3MHz Channel=23025 RB Size=1 Position=#0

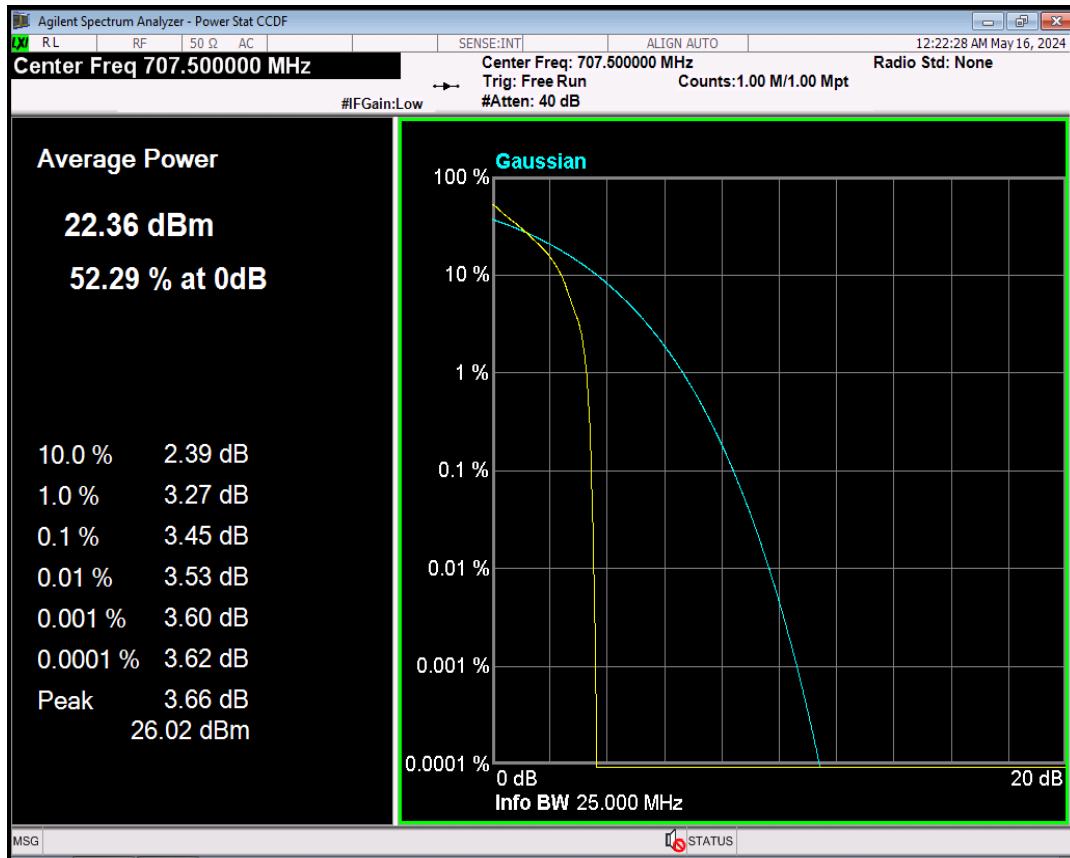


Band12 16QAM BW=3MHz Channel=23025 RB Size=1 Position=#0

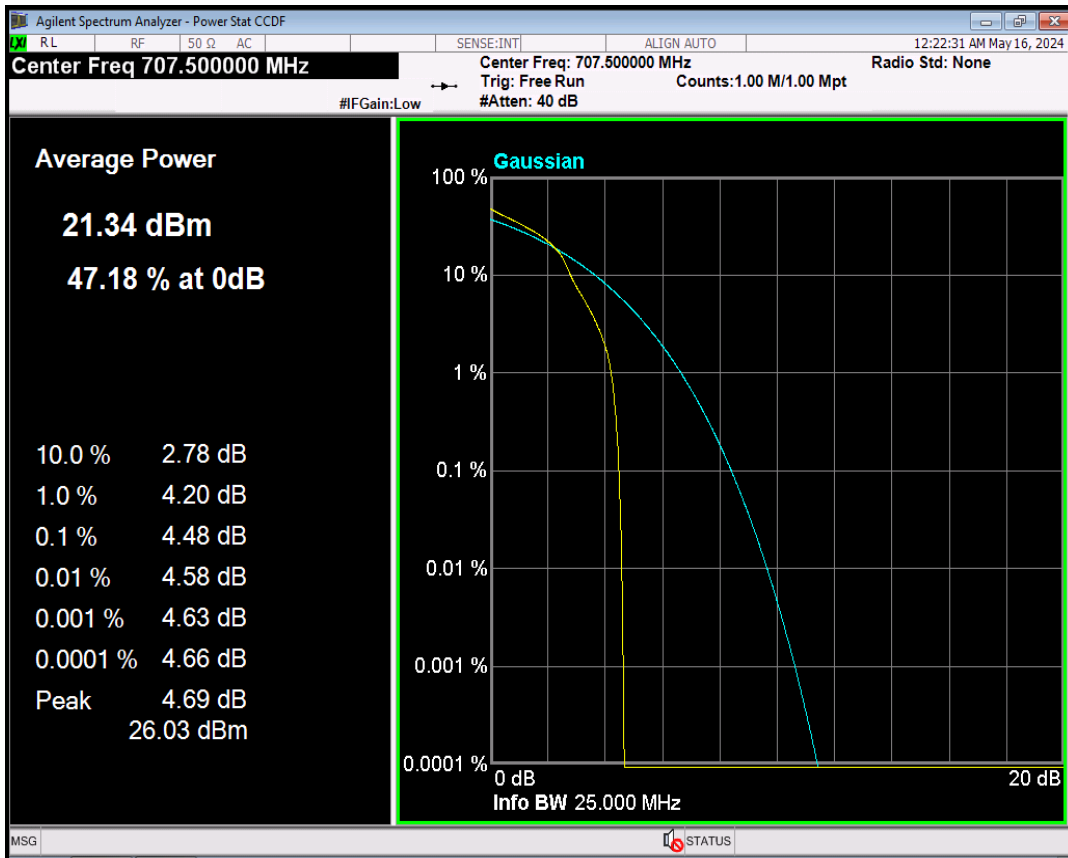




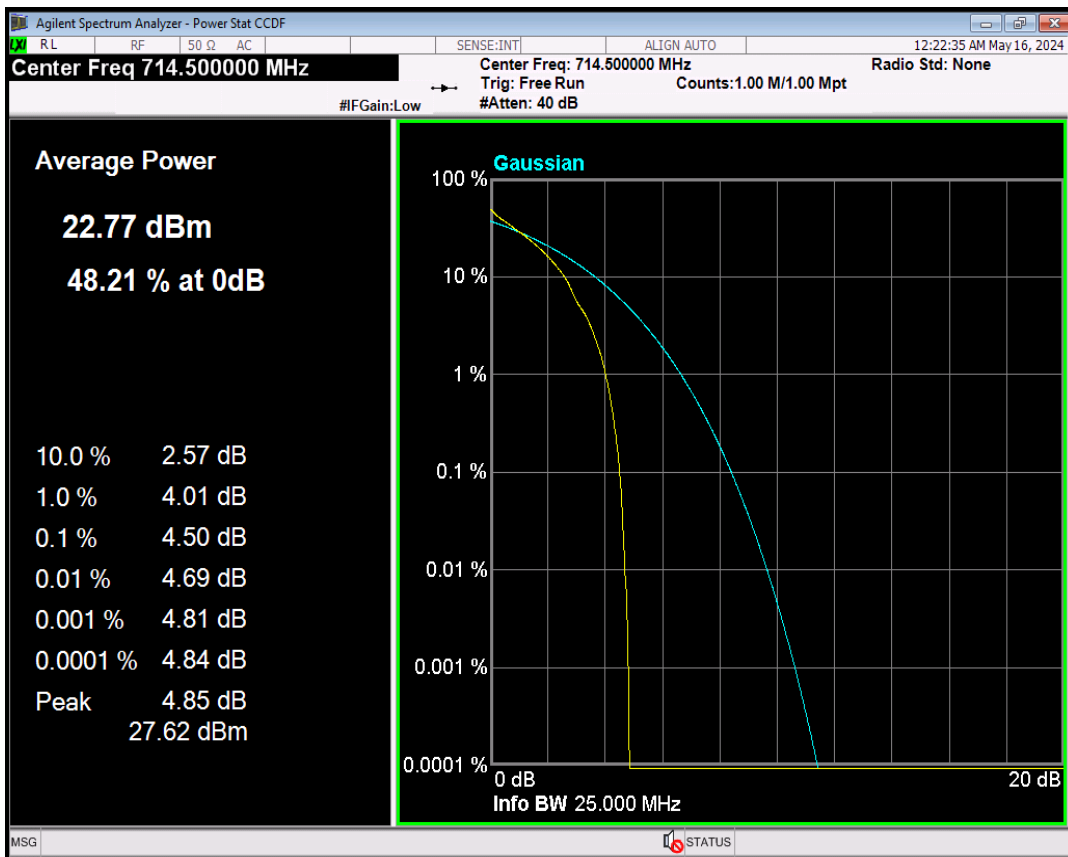
Band12 QPSK BW=3MHz Channel=23095 RB Size=1 Position=#0



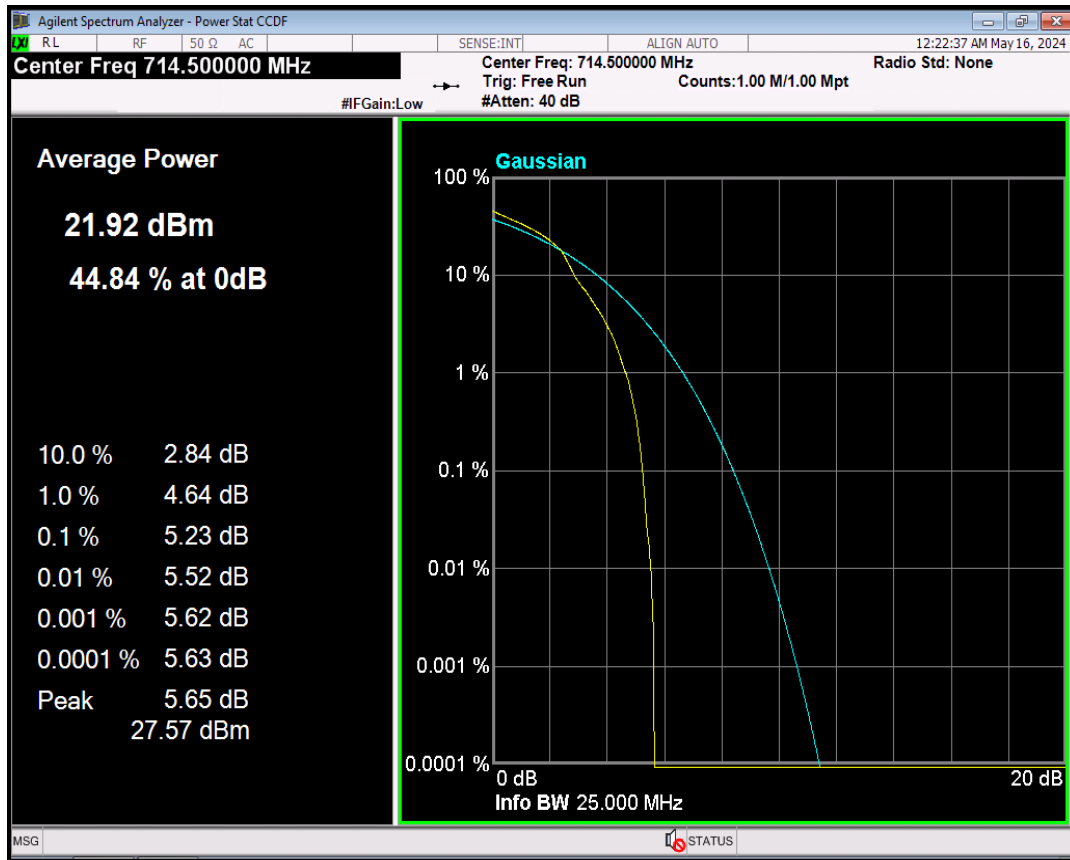
Band12 16QAM BW=3MHz Channel=23095 RB Size=1 Position=#0



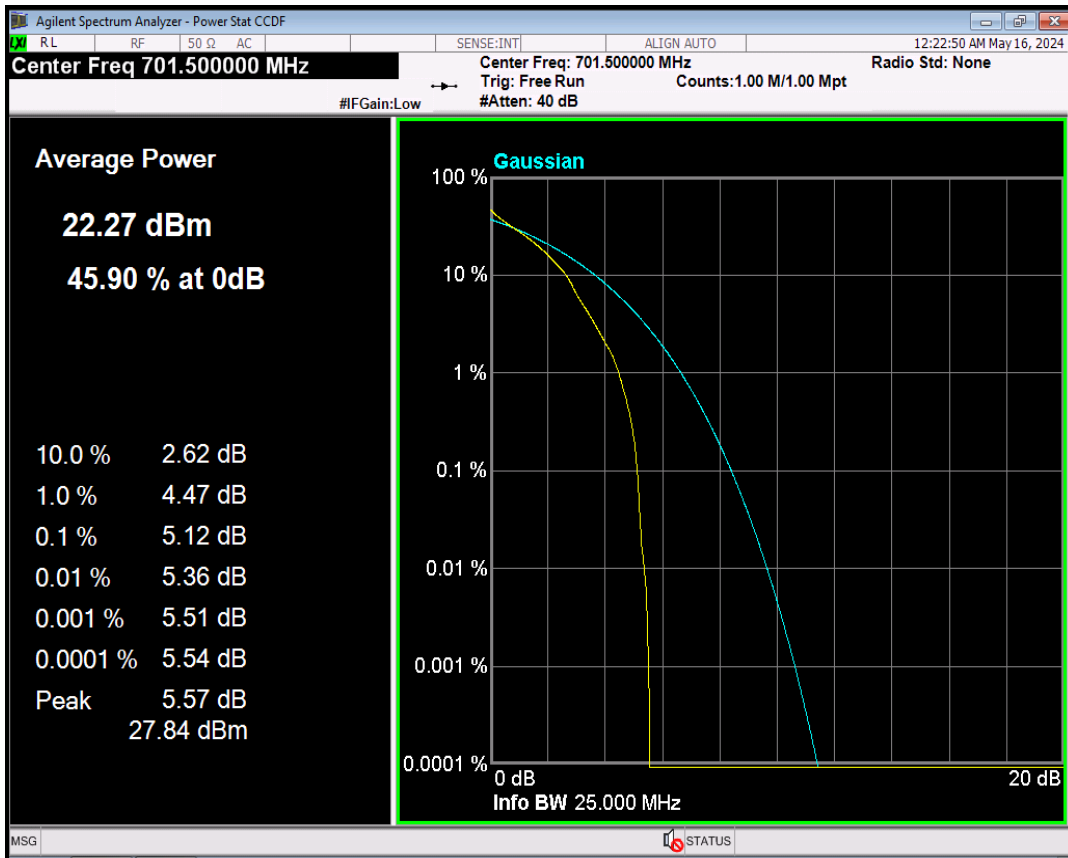
Band12 QPSK BW=3MHz Channel=23165 RB Size=1 Position=#0



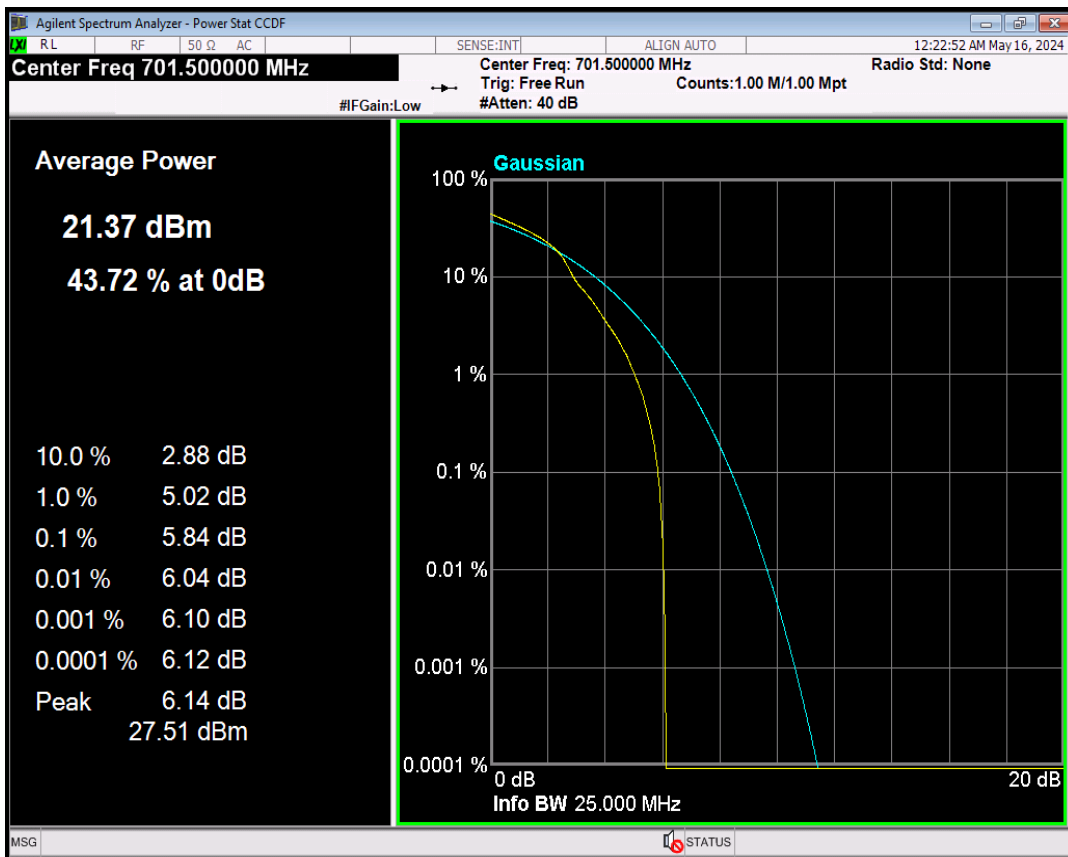
Band12 16QAM BW=3MHz Channel=23165 RB Size=1 Position=#0



Band12 QPSK BW=5MHz Channel=23035 RB Size=1 Position=#0

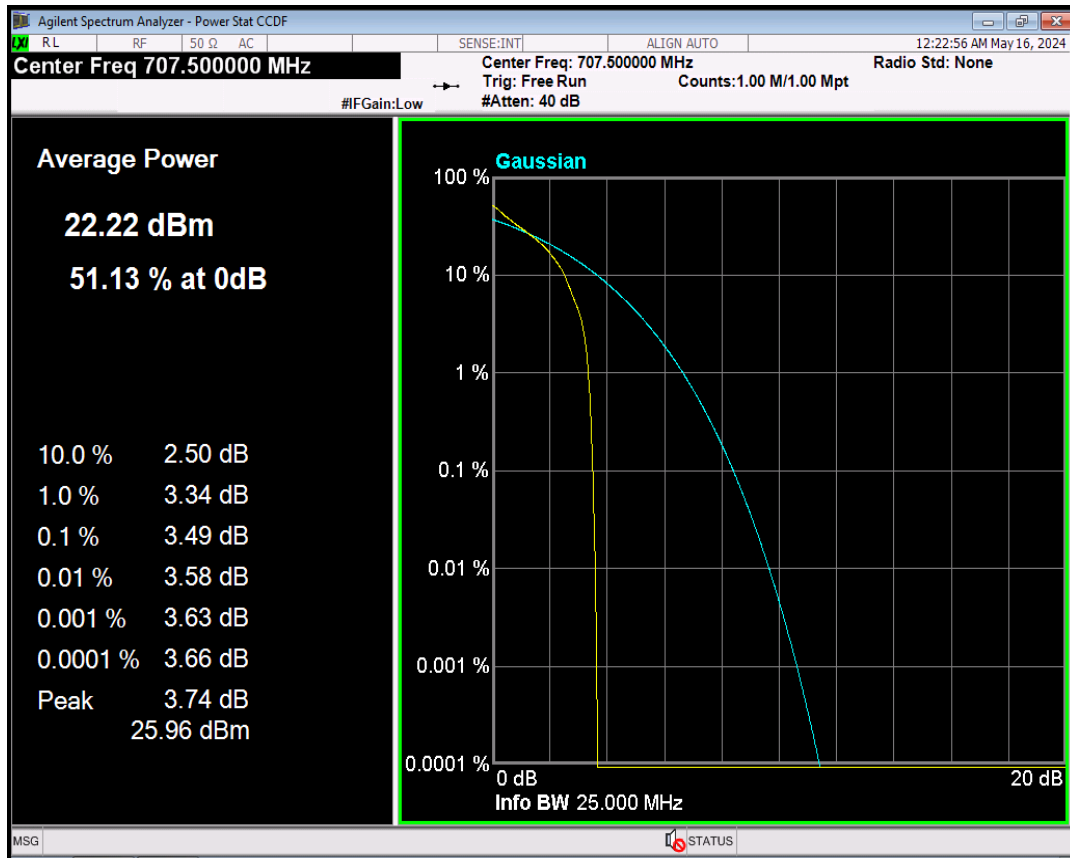


Band12 16QAM BW=5MHz Channel=23035 RB Size=1 Position=#0

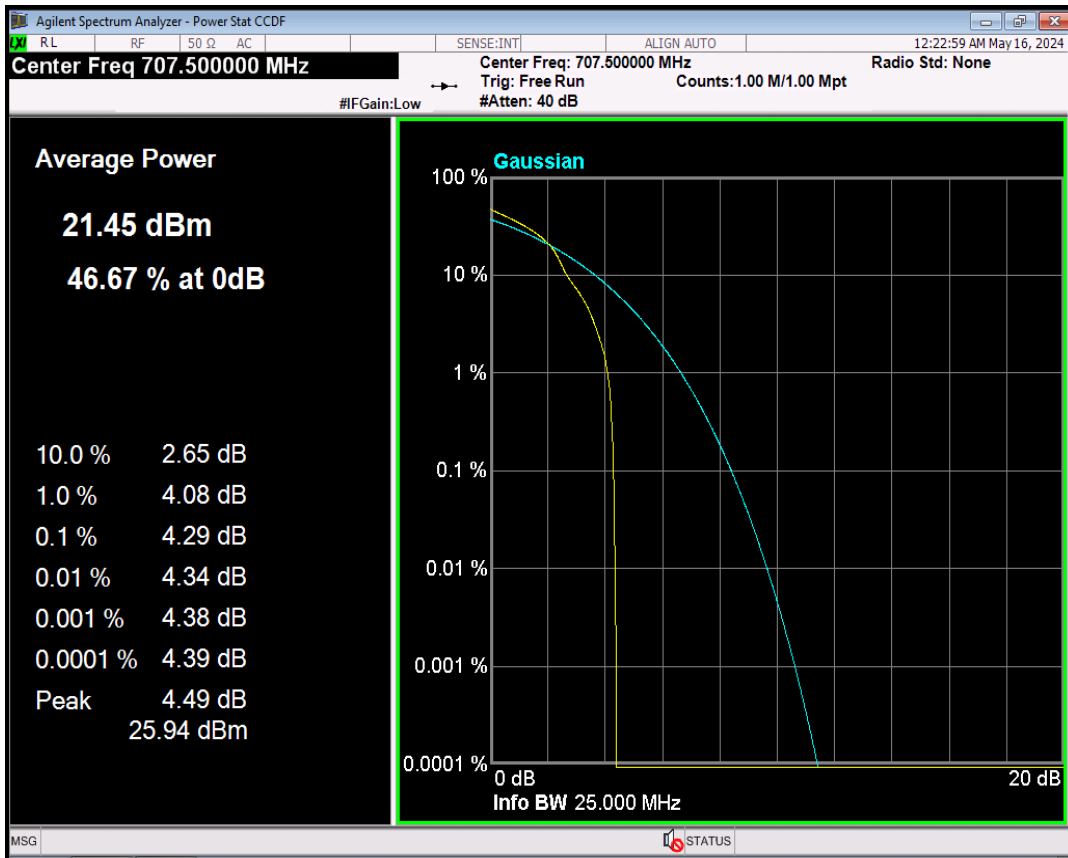




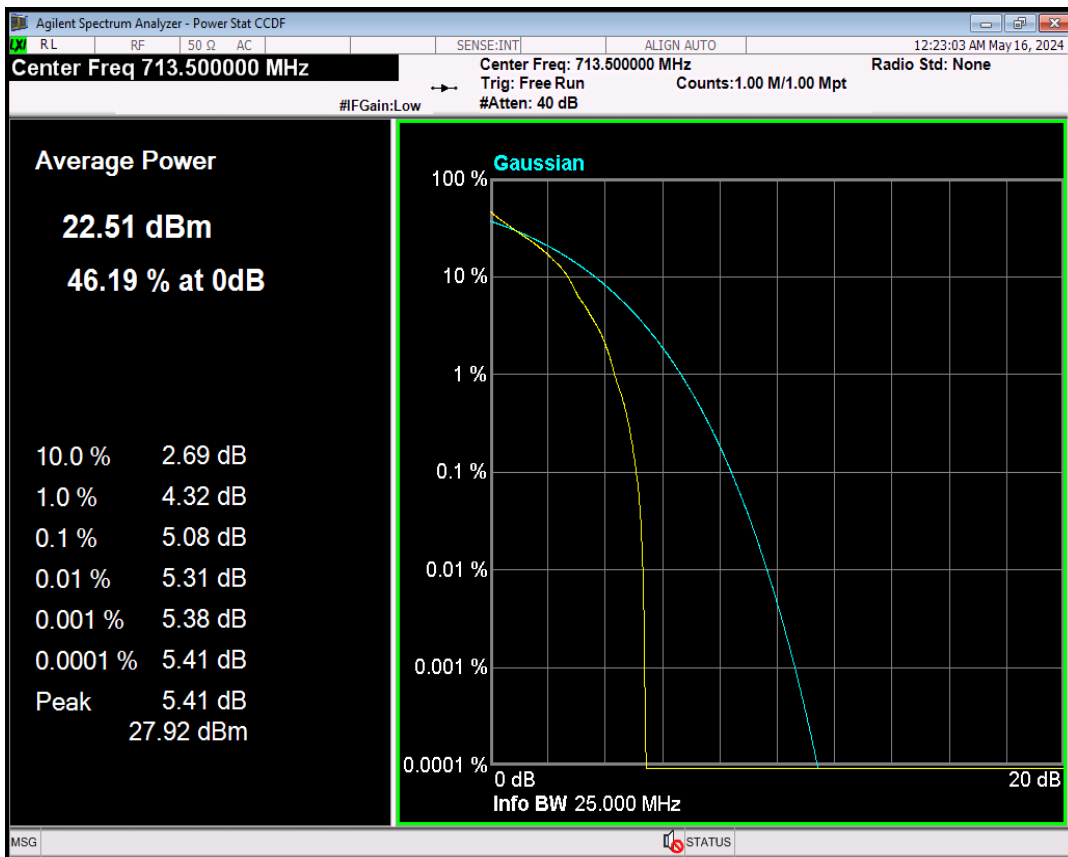
Band12 QPSK BW=5MHz Channel=23095 RB Size=1 Position=#0



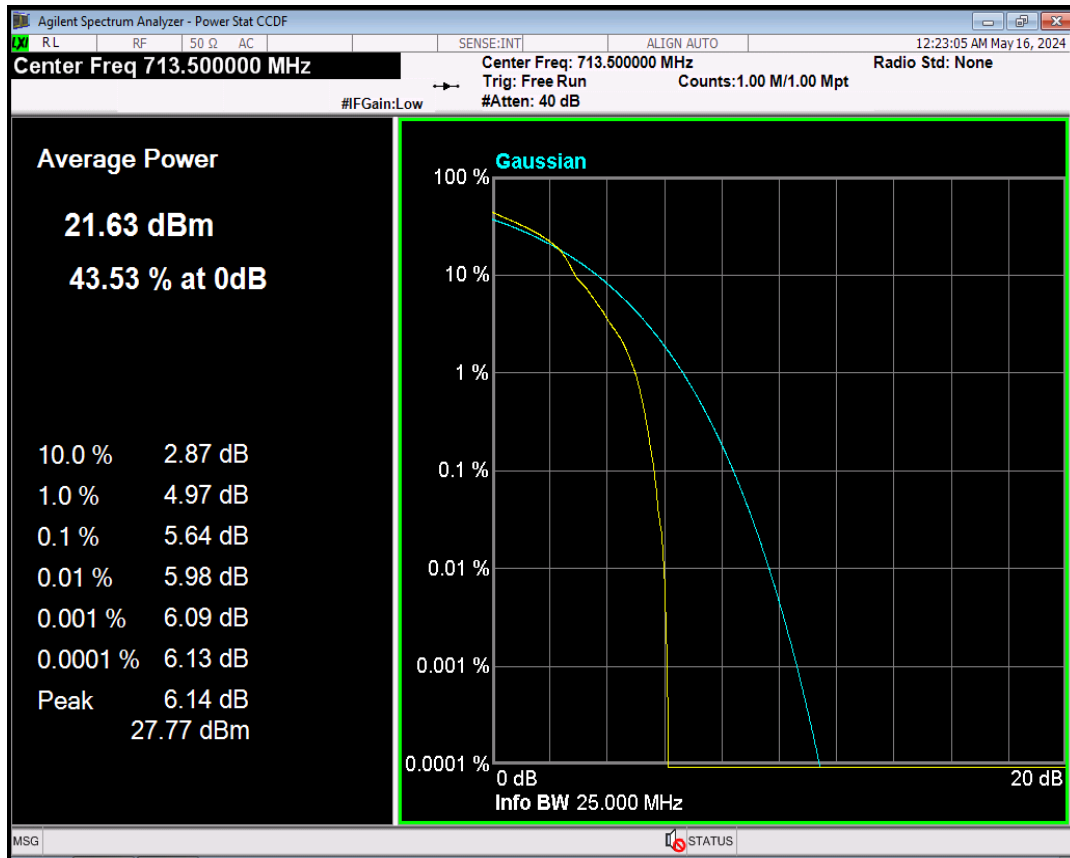
Band12 16QAM BW=5MHz Channel=23095 RB Size=1 Position=#0



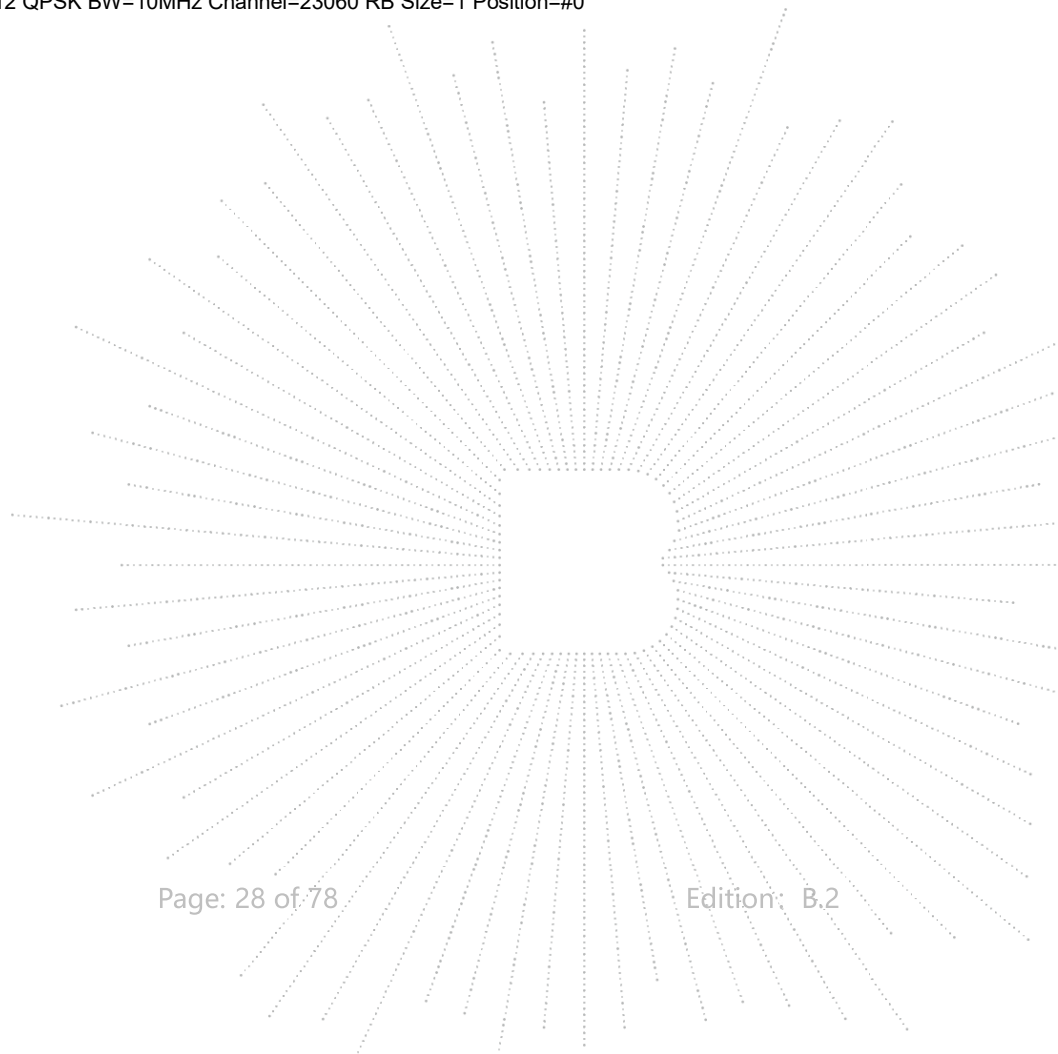
Band12 QPSK BW=5MHz Channel=23155 RB Size=1 Position=#0

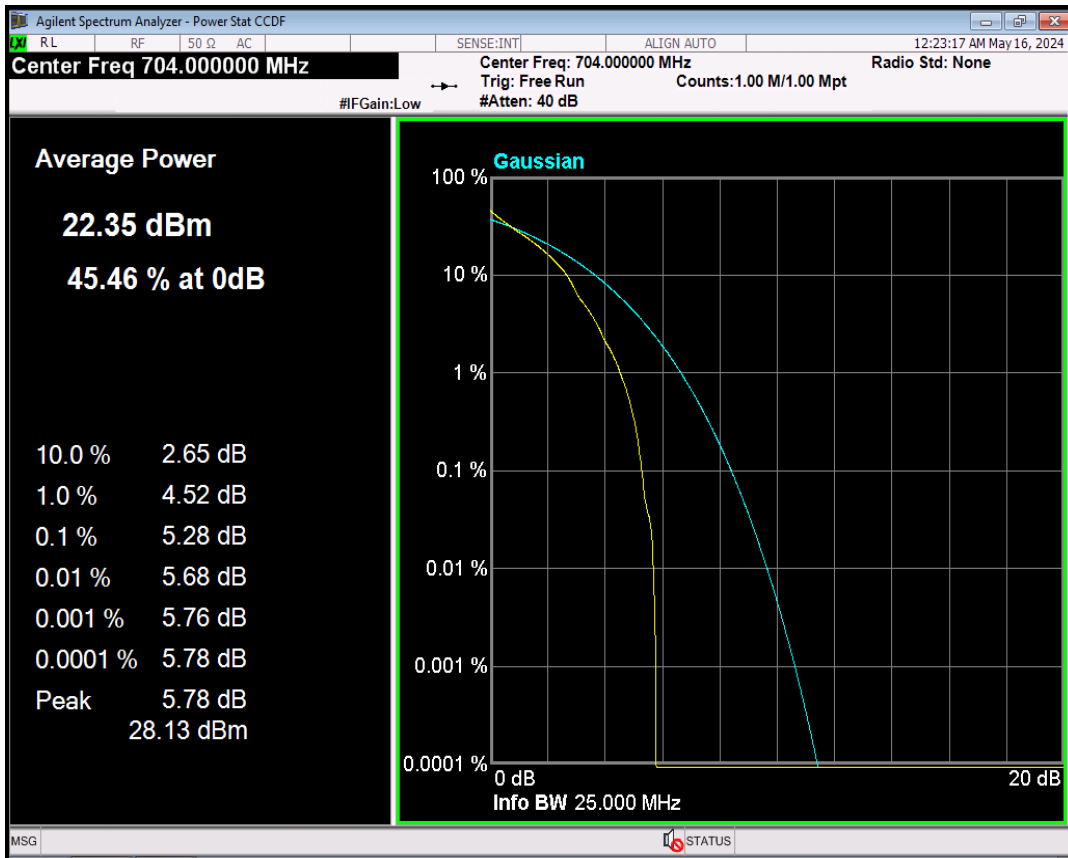


Band12 16QAM BW=5MHz Channel=23155 RB Size=1 Position=#0

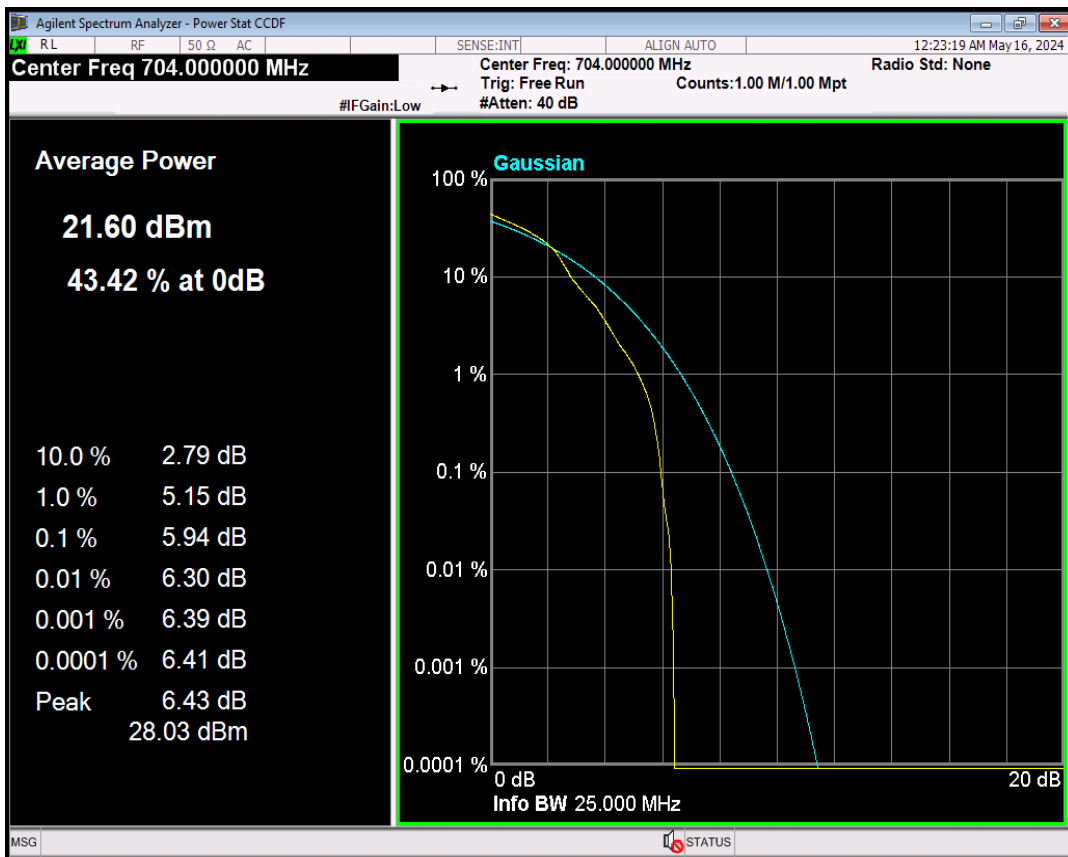


Band12 QPSK BW=10MHz Channel=23060 RB Size=1 Position=#0

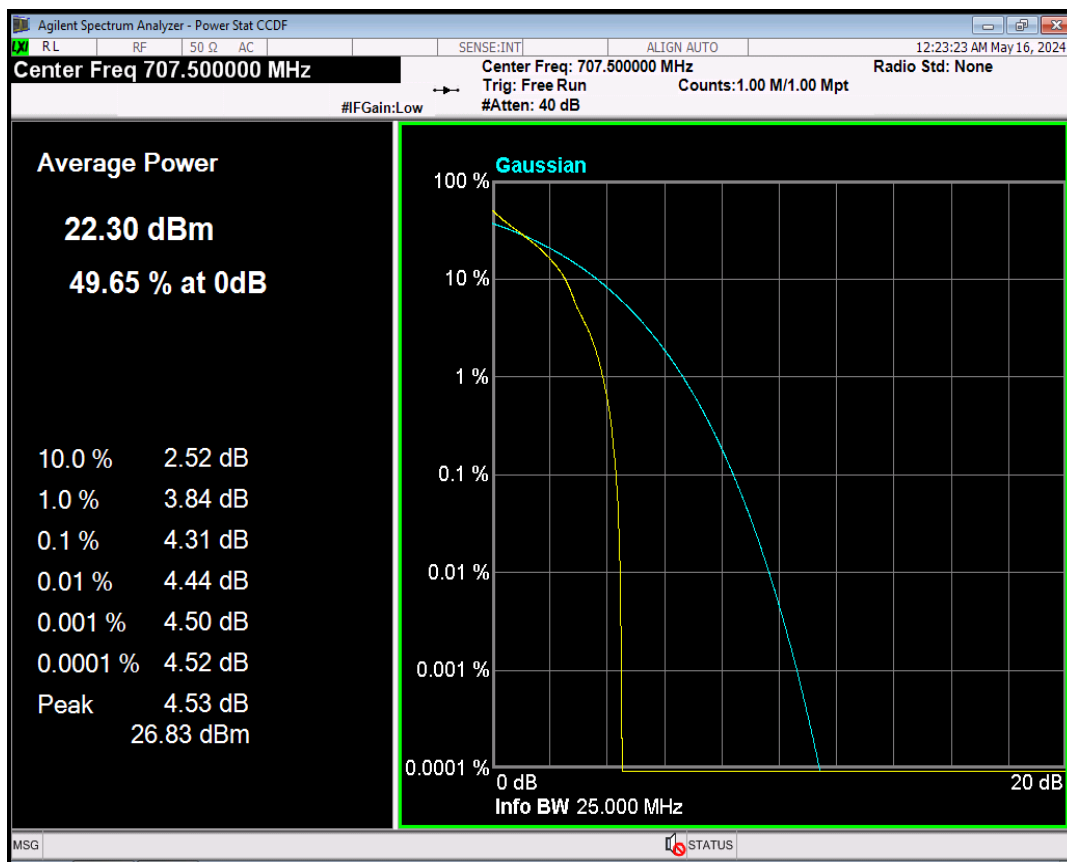




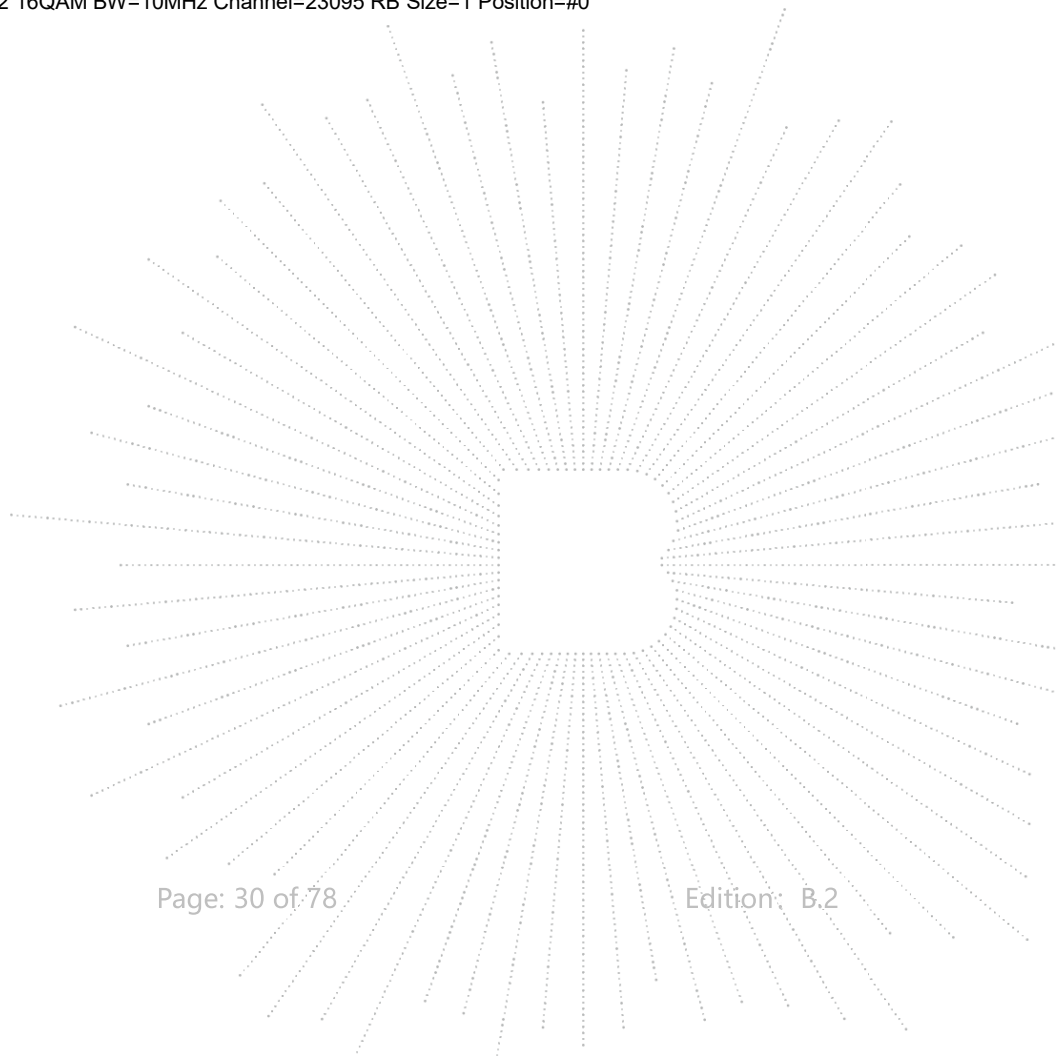
Band12 16QAM BW=10MHz Channel=23060 RB Size=1 Position=#0

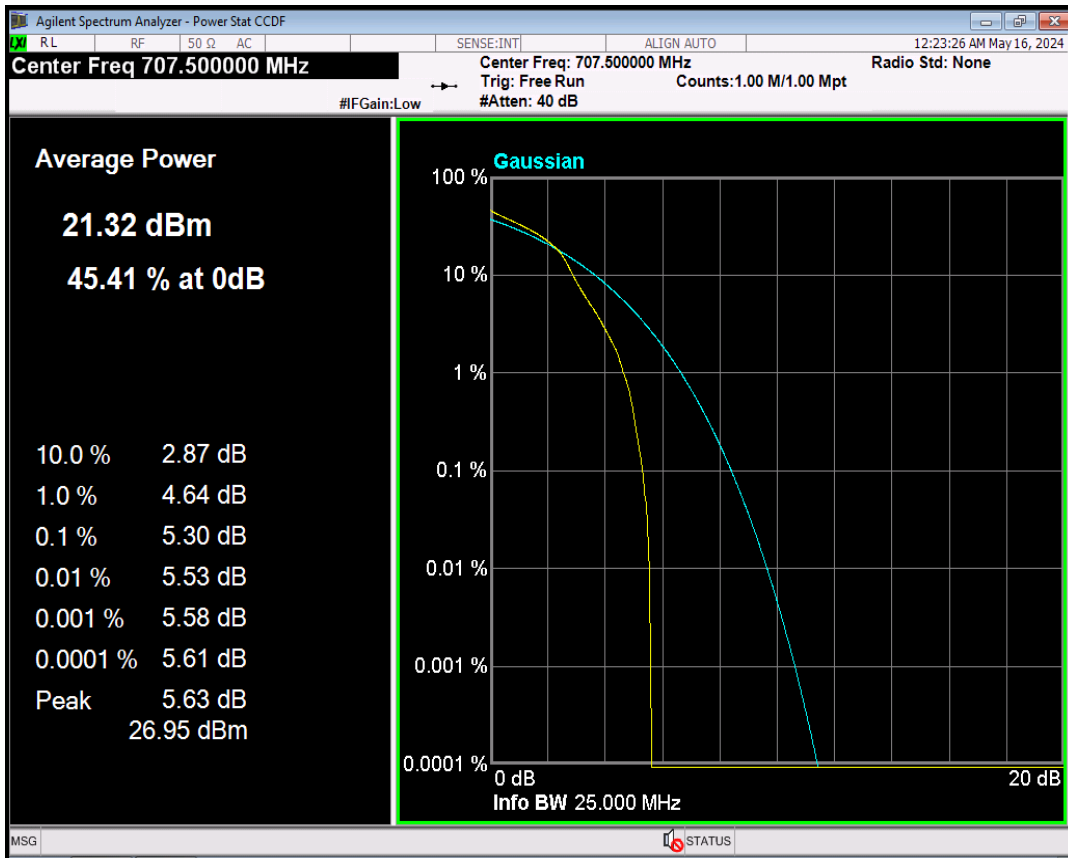


Band12 QPSK BW=10MHz Channel=23095 RB Size=1 Position=#0

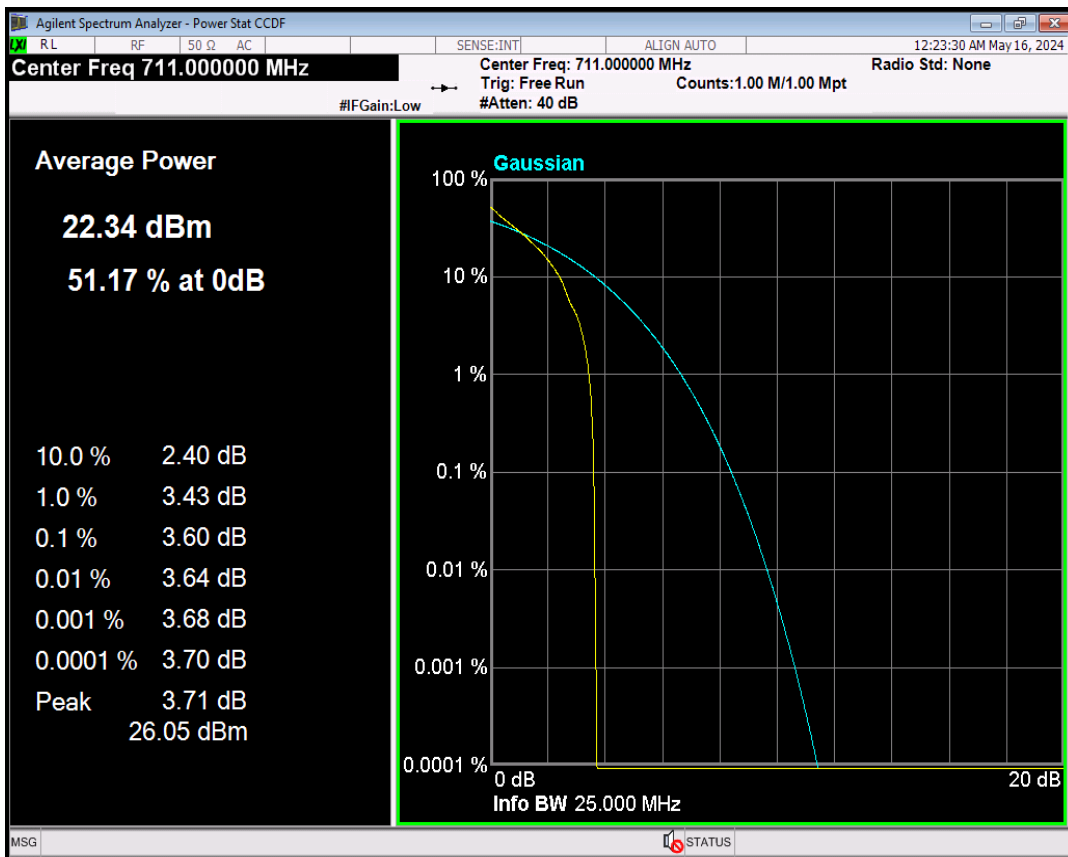


Band12 16QAM BW=10MHz Channel=23095 RB Size=1 Position=#0

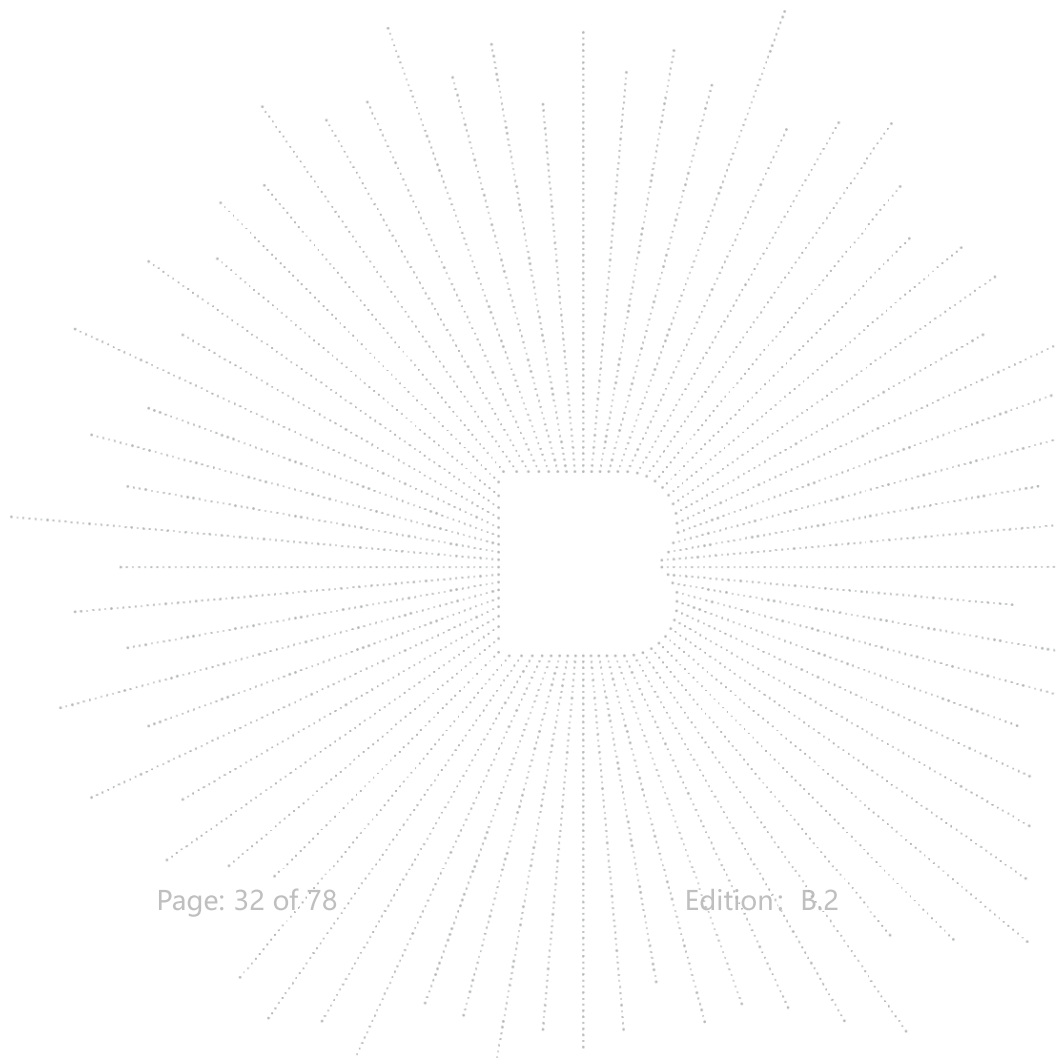
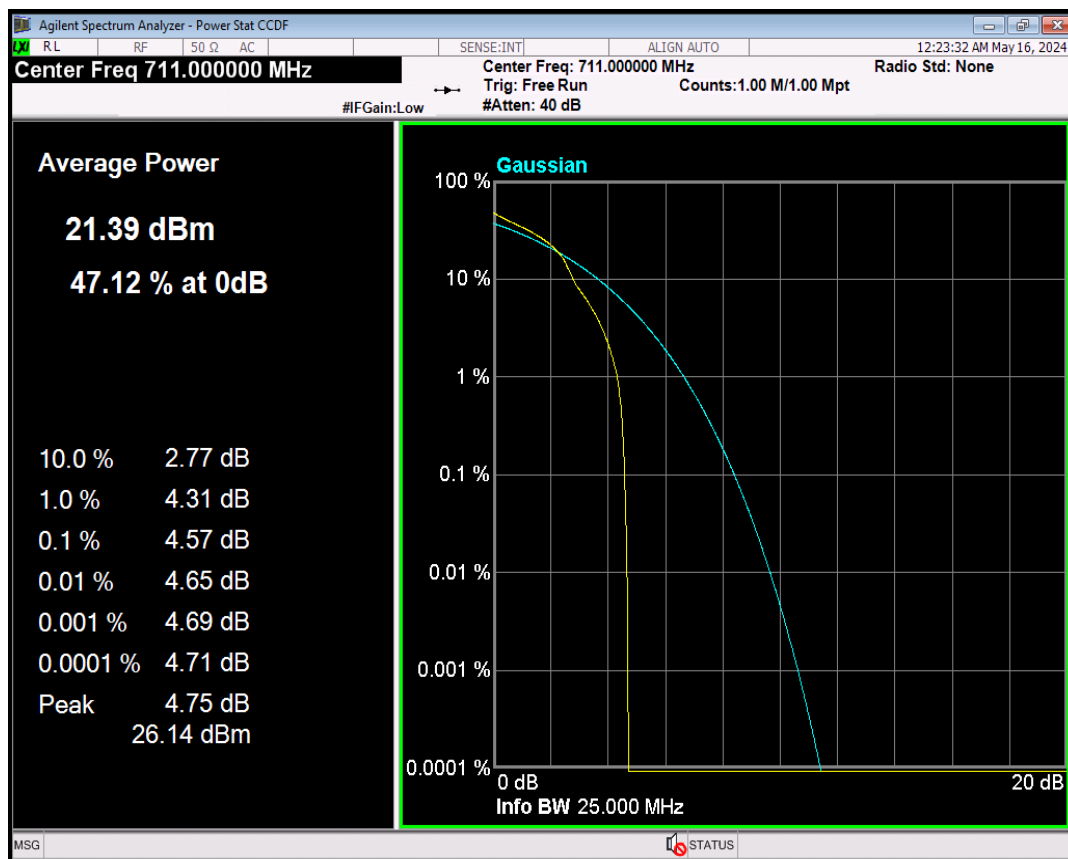




Band12 QPSK BW=10MHz Channel=23130 RB Size=1 Position=#0



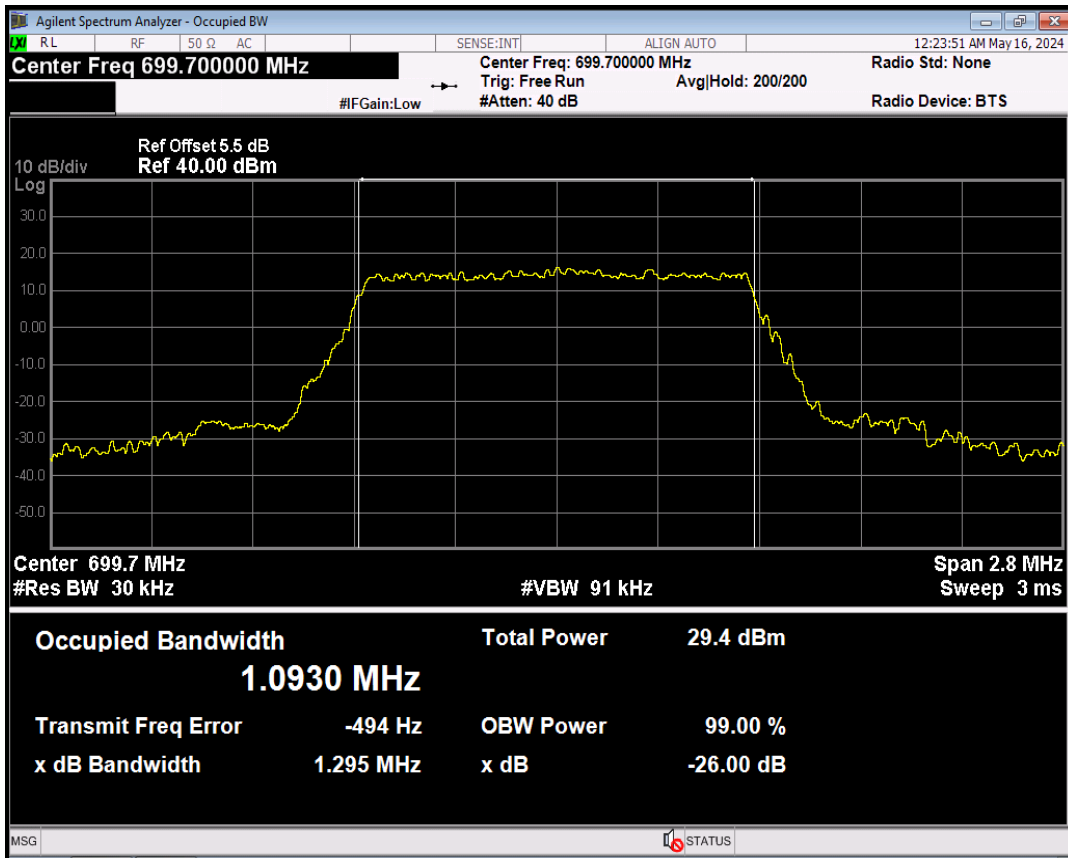
Band12 16QAM BW=10MHz Channel=23130 RB Size=1 Position=#0



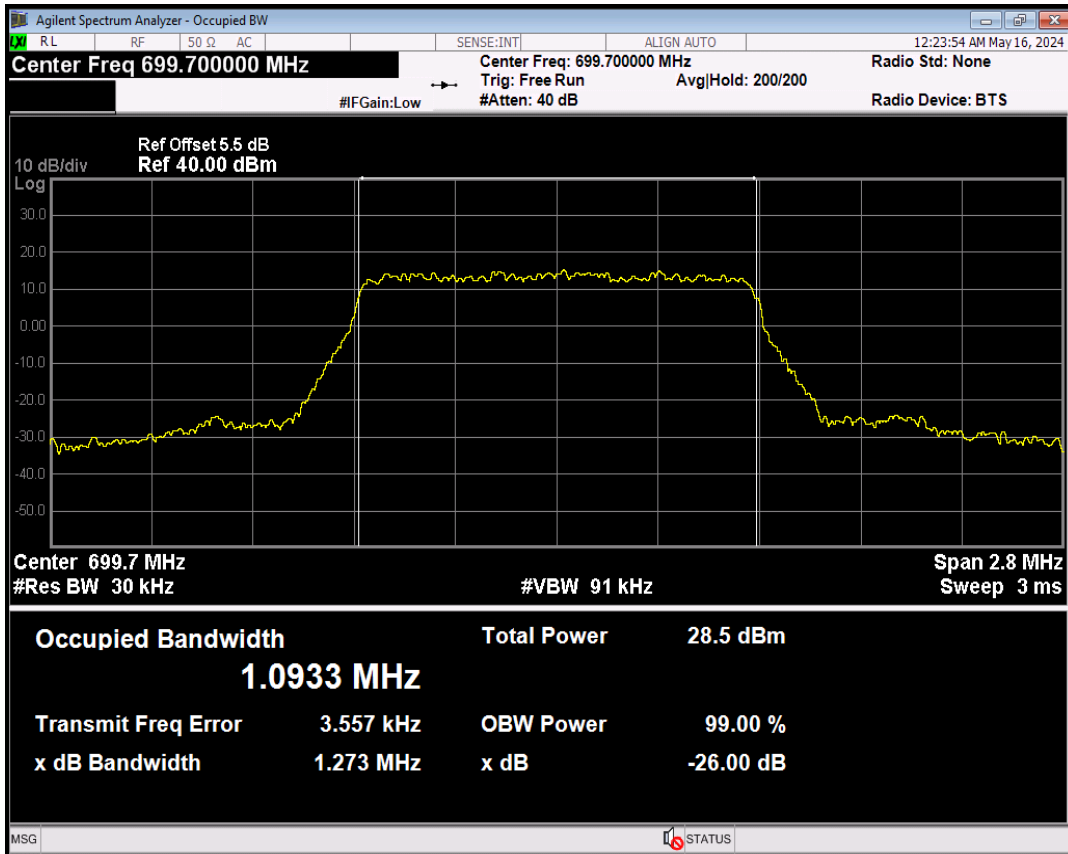
Appendix 4. Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band12	1.4	23017	6	#0	QPSK	1.093	1.295	PASS
Band12	1.4	23017	6	#0	16QAM	1.093	1.273	PASS
Band12	1.4	23095	6	#0	QPSK	1.104	1.286	PASS
Band12	1.4	23095	6	#0	16QAM	1.094	1.280	PASS
Band12	1.4	23173	6	#0	QPSK	1.093	1.275	PASS
Band12	1.4	23173	6	#0	16QAM	1.095	1.290	PASS
Band12	3	23025	15	#0	QPSK	2.697	2.888	PASS
Band12	3	23025	15	#0	16QAM	2.683	2.902	PASS
Band12	3	23095	15	#0	QPSK	2.686	2.898	PASS
Band12	3	23095	15	#0	16QAM	2.685	2.886	PASS
Band12	3	23165	15	#0	QPSK	2.695	2.904	PASS
Band12	3	23165	15	#0	16QAM	2.690	2.925	PASS
Band12	5	23035	25	#0	QPSK	4.501	4.984	PASS
Band12	5	23035	25	#0	16QAM	4.496	5.057	PASS
Band12	5	23095	25	#0	QPSK	4.516	5.055	PASS
Band12	5	23095	25	#0	16QAM	4.552	5.142	PASS
Band12	5	23155	25	#0	QPSK	4.528	4.977	PASS
Band12	5	23155	25	#0	16QAM	4.528	5.060	PASS
Band12	10	23060	50	#0	QPSK	9.008	9.847	PASS
Band12	10	23060	50	#0	16QAM	9.018	9.898	PASS
Band12	10	23095	50	#0	QPSK	9.051	9.862	PASS
Band12	10	23095	50	#0	16QAM	9.056	9.963	PASS
Band12	10	23130	50	#0	QPSK	8.933	9.771	PASS
Band12	10	23130	50	#0	16QAM	8.957	9.782	PASS

Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0

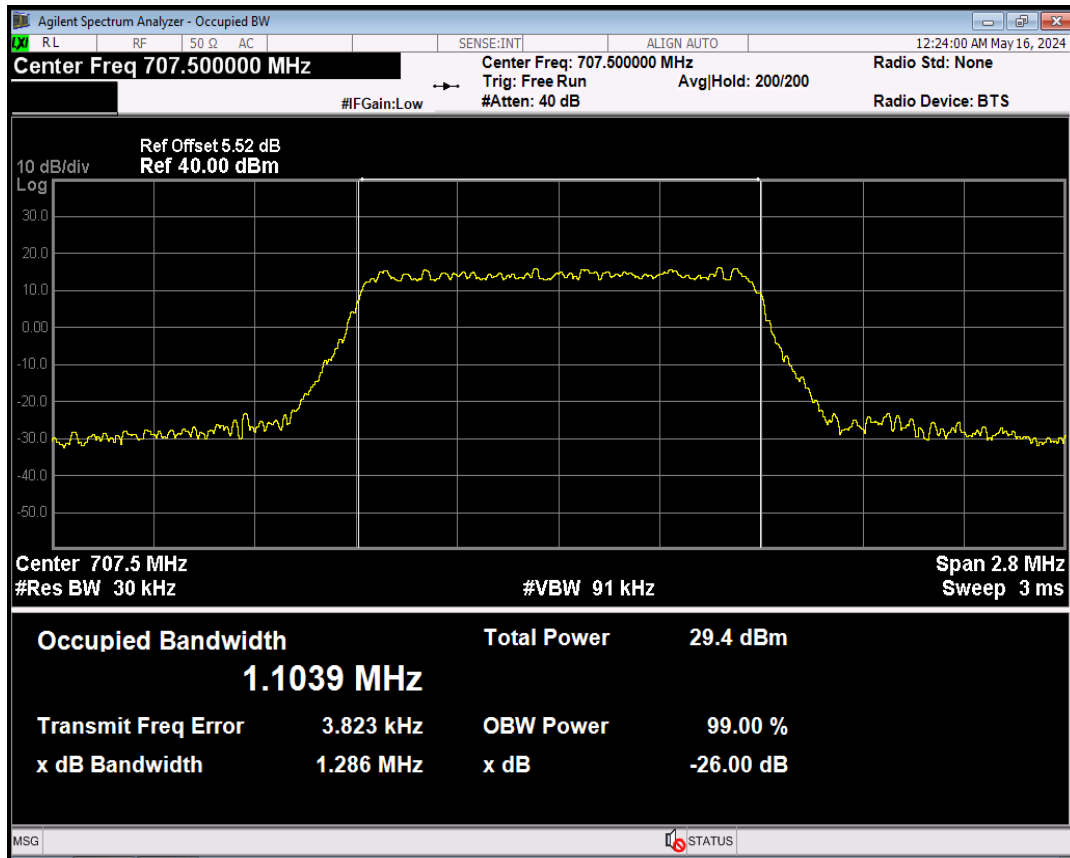


Band12 16QAM BW=1.4MHz Channel=23017 RB Size=6 Position=#0

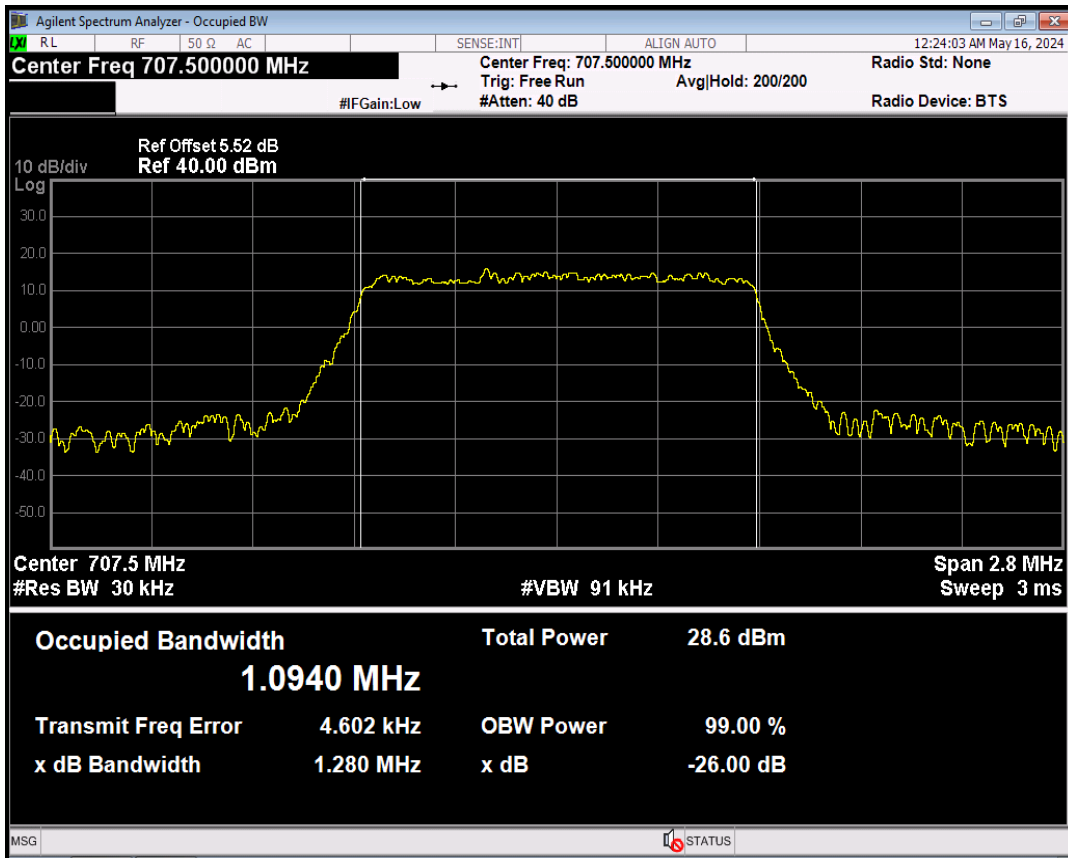




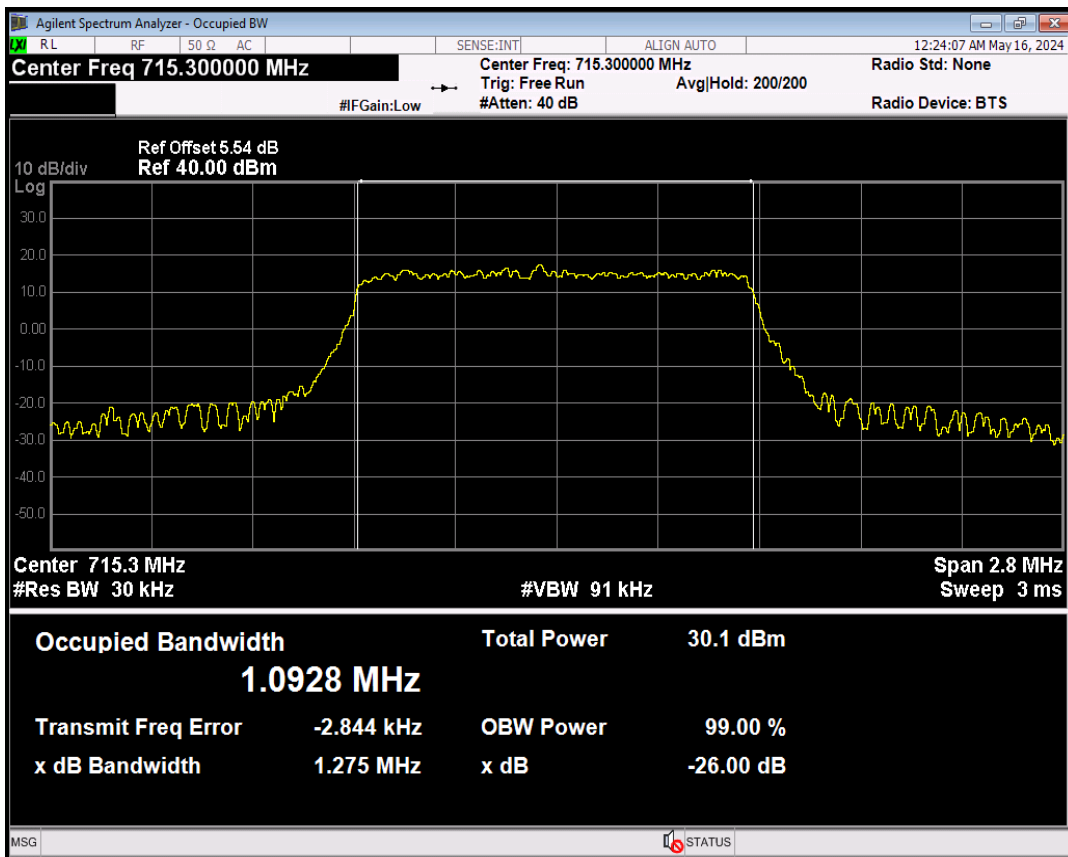
Band12 QPSK BW=1.4MHz Channel=23095 RB Size=6 Position=#0



Band12 16QAM BW=1.4MHz Channel=23095 RB Size=6 Position=#0

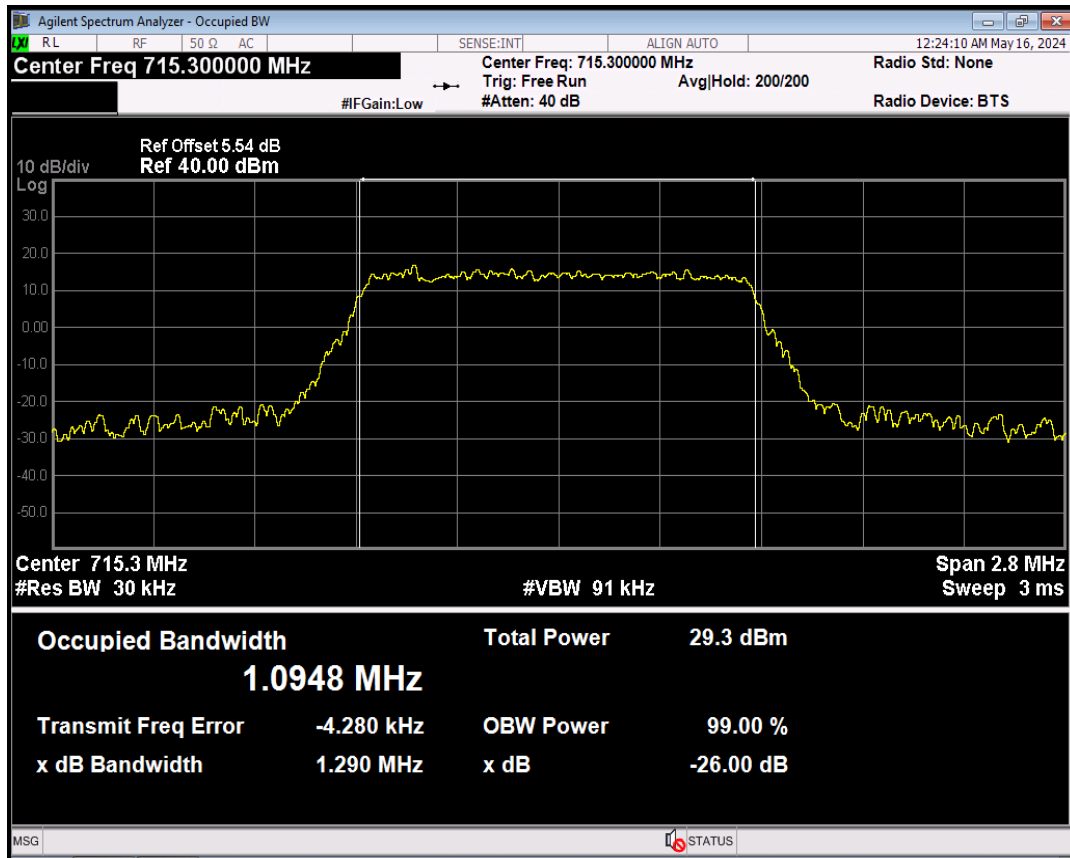


Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0

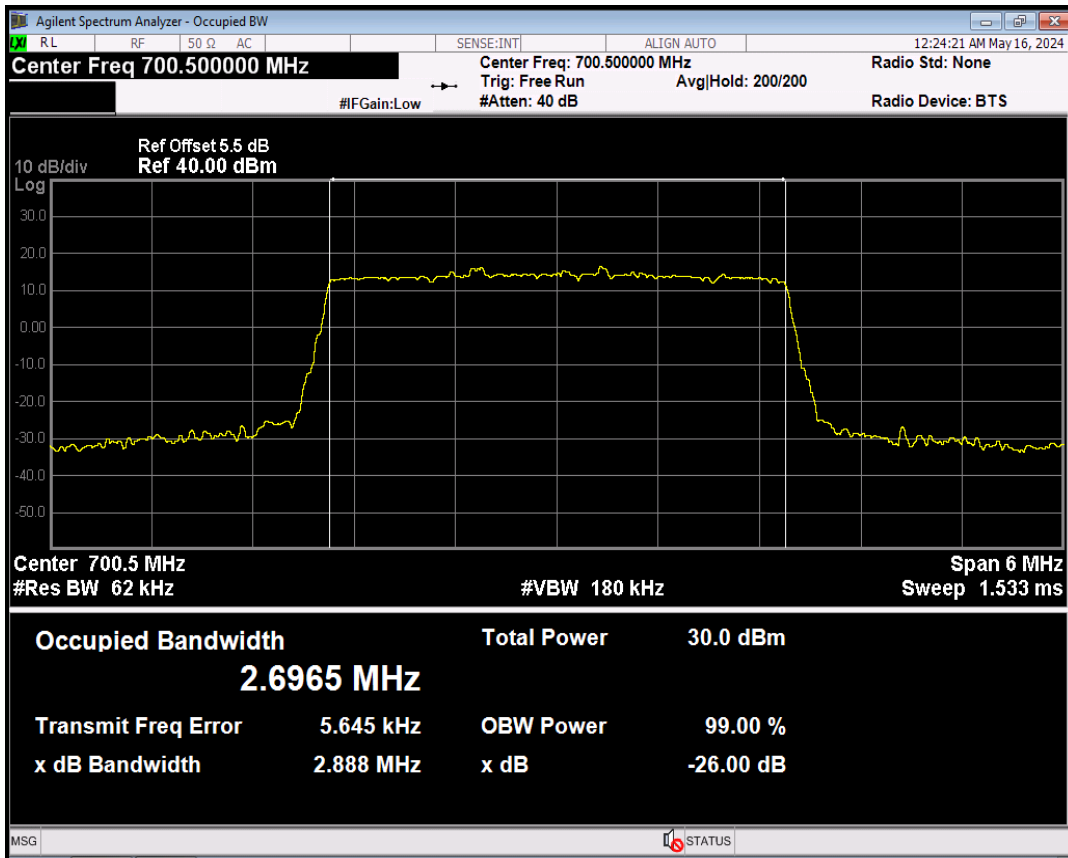




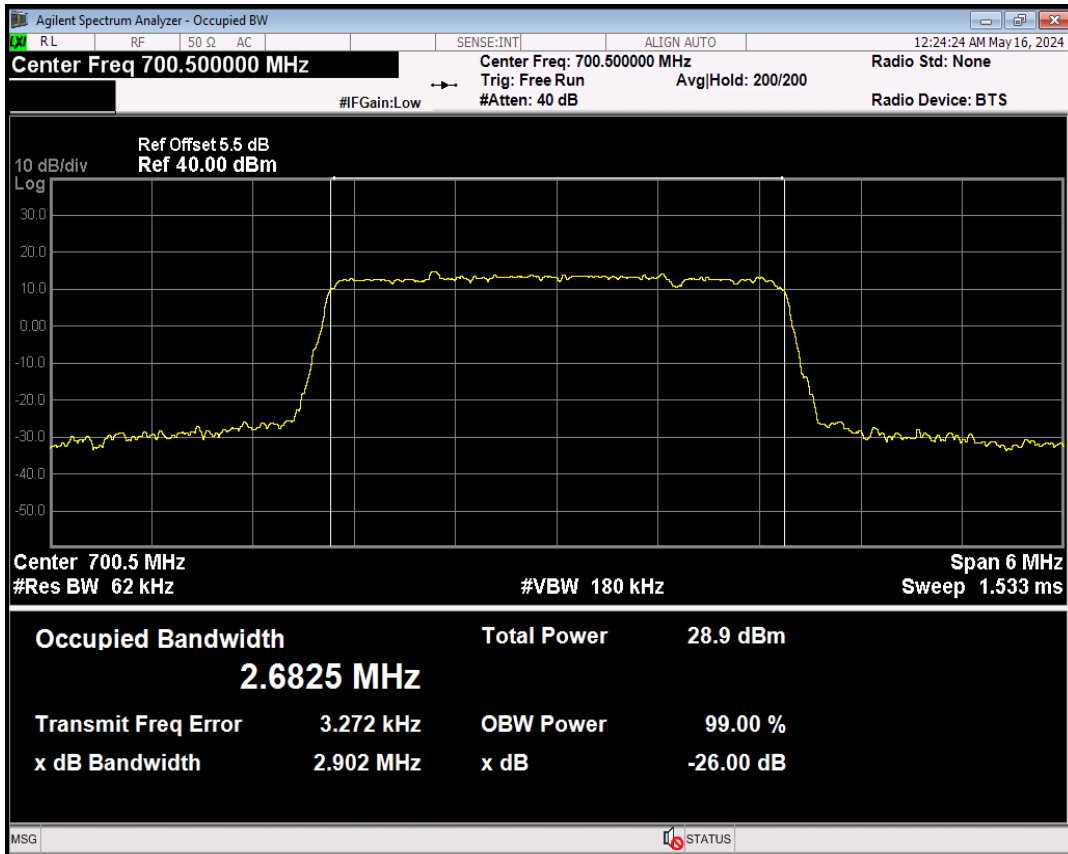
Band12 16QAM BW=1.4MHz Channel=23173 RB Size=6 Position=#0



Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0

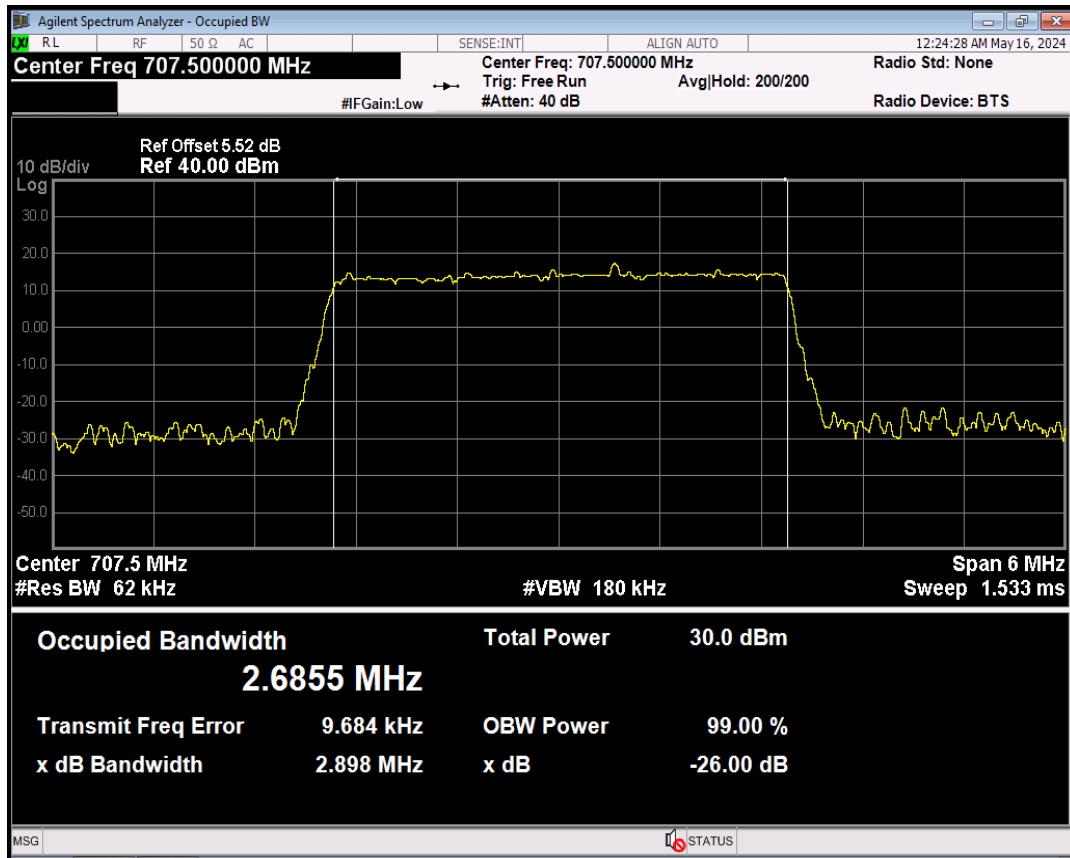


Band12 16QAM BW=3MHz Channel=23025 RB Size=15 Position=#0

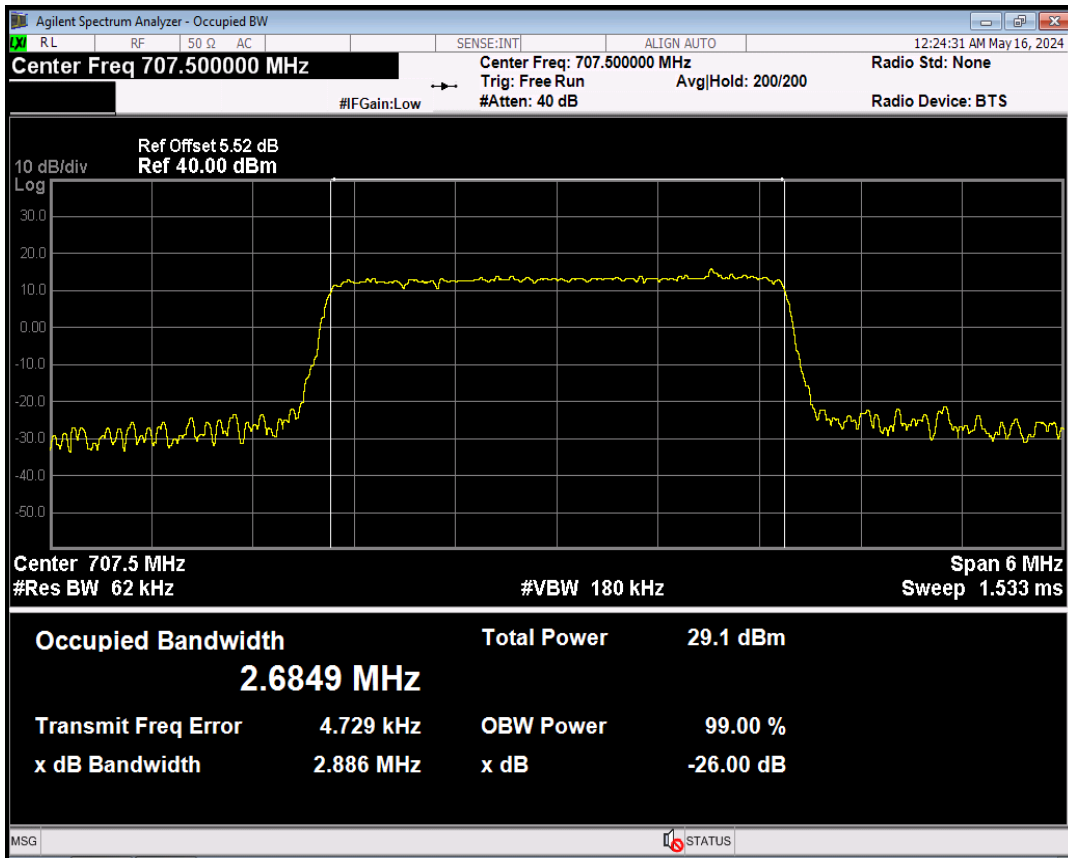




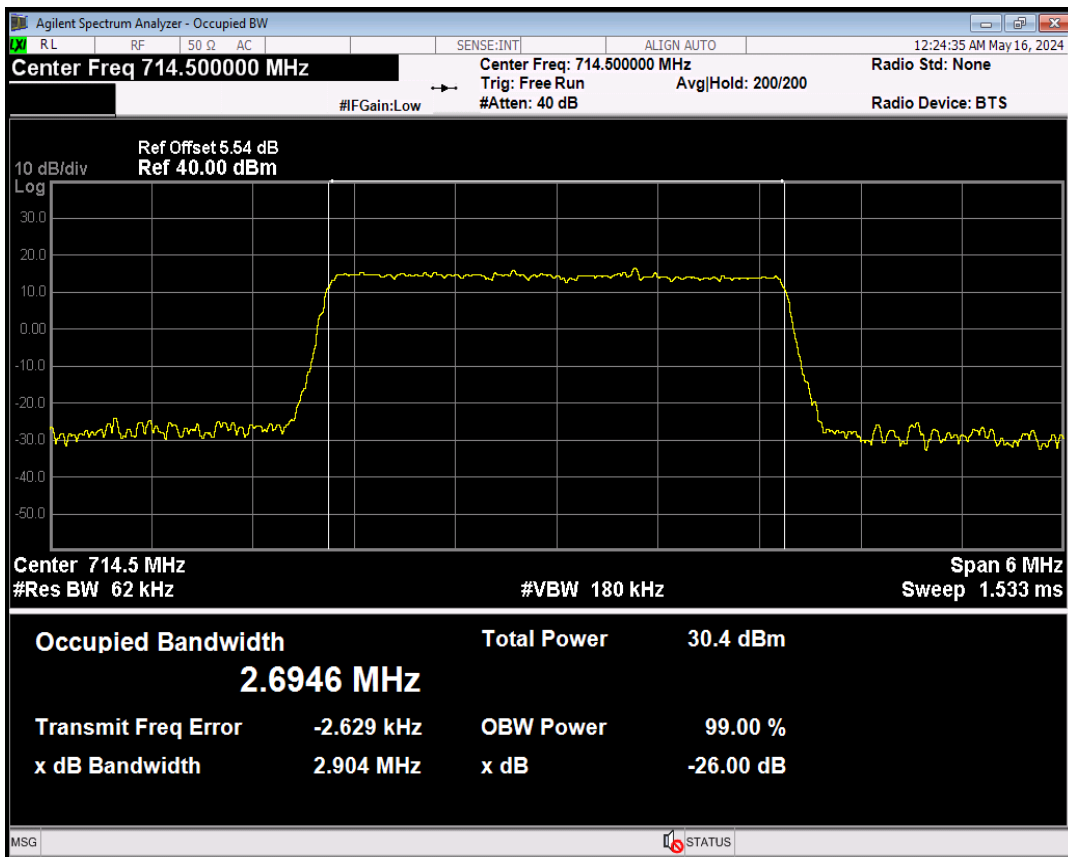
Band12 QPSK BW=3MHz Channel=23095 RB Size=15 Position=#0



Band12 16QAM BW=3MHz Channel=23095 RB Size=15 Position=#0

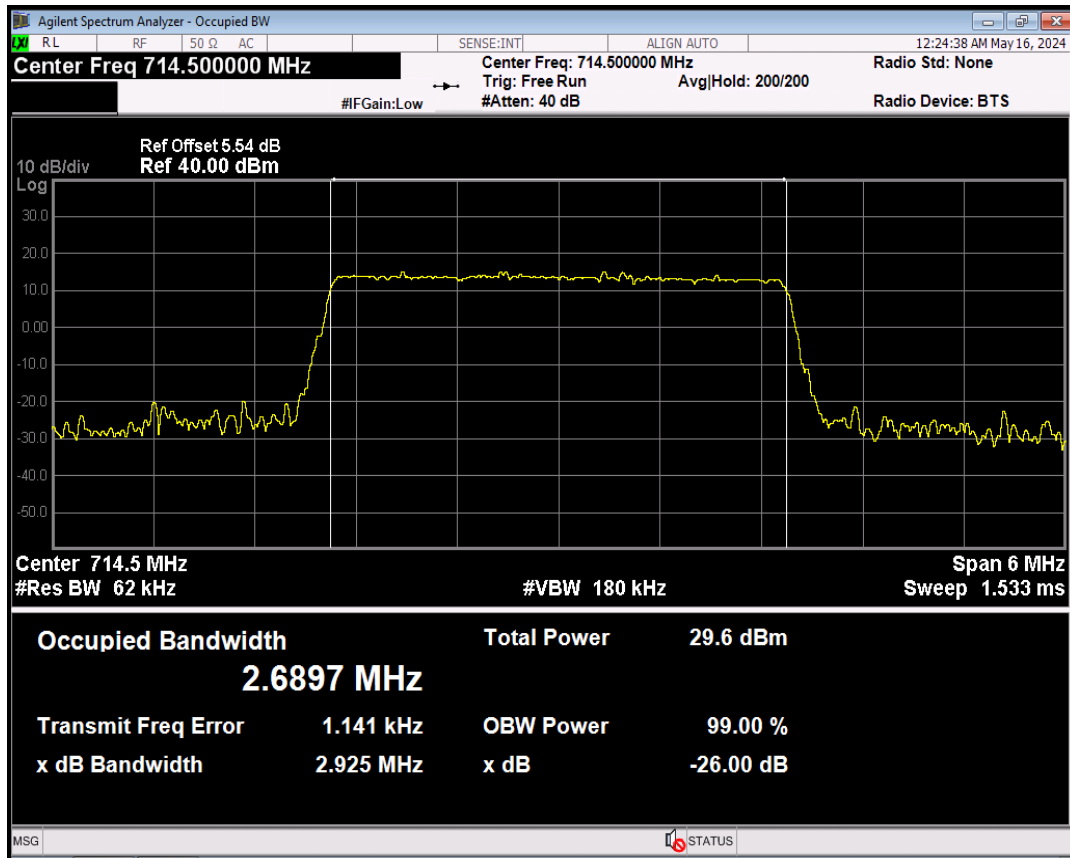


Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0

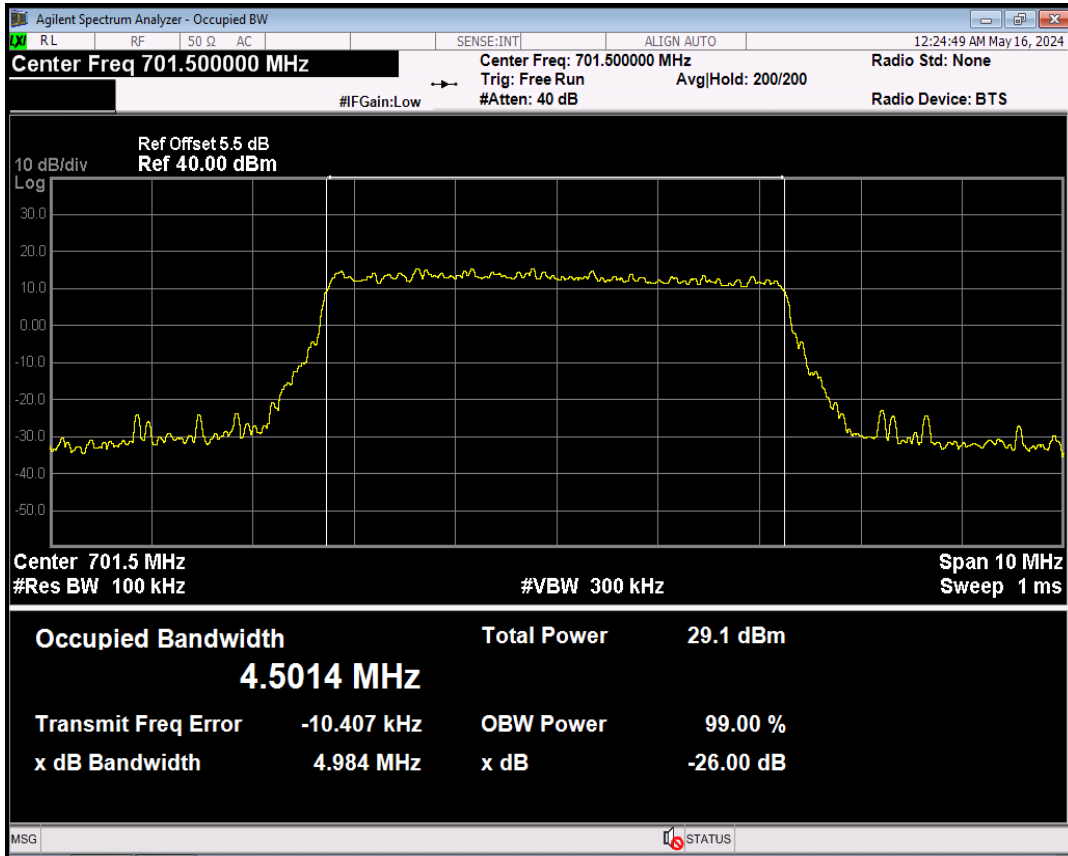




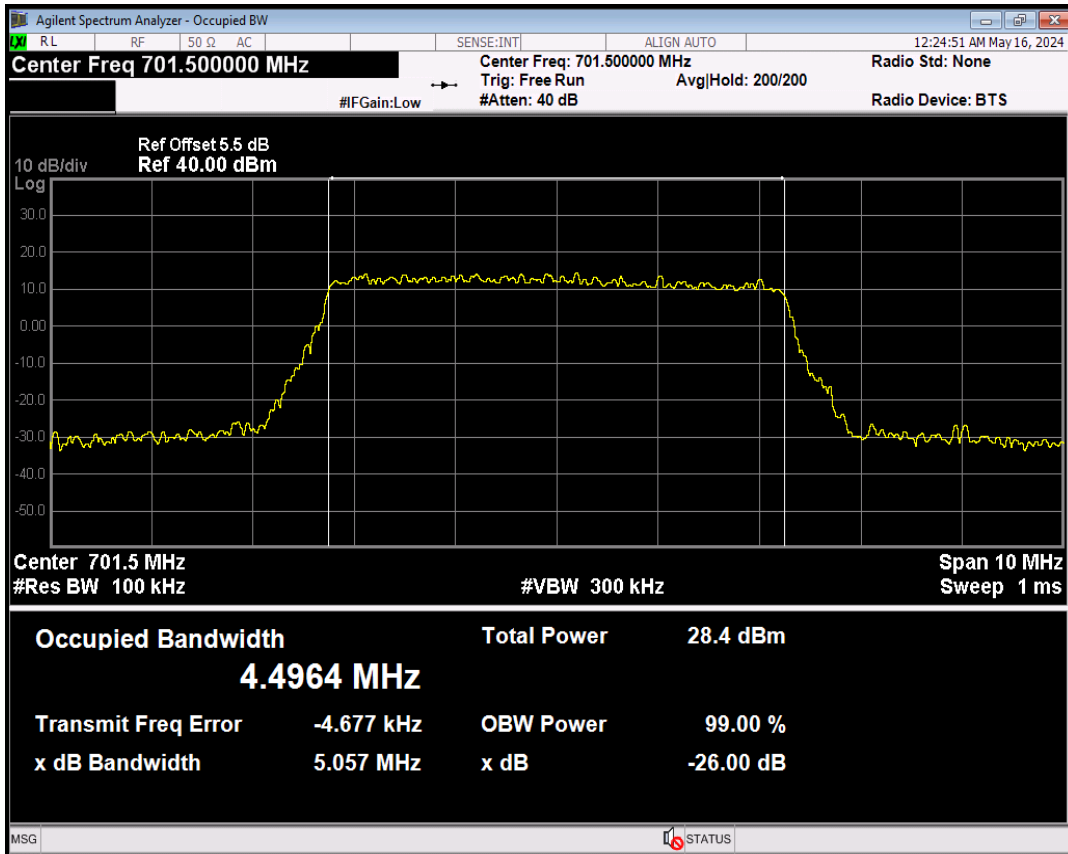
Band12 16QAM BW=3MHz Channel=23165 RB Size=15 Position=#0



Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0

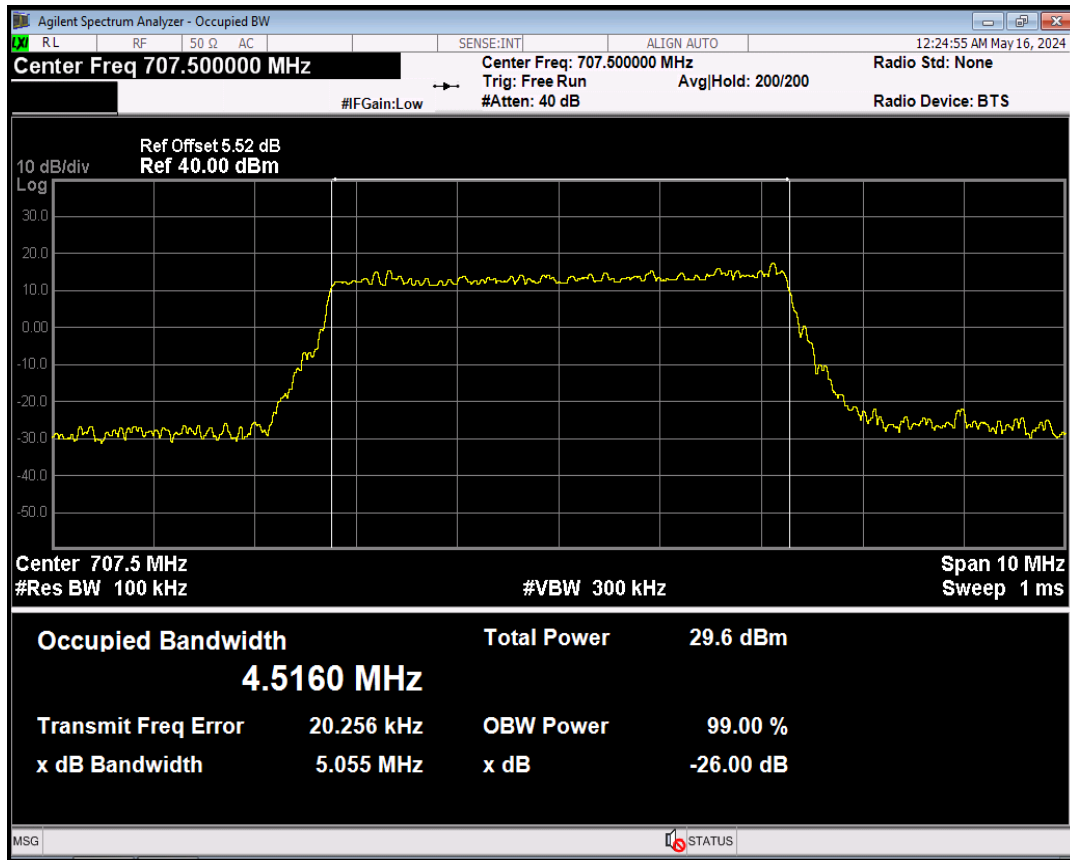


Band12 16QAM BW=5MHz Channel=23035 RB Size=25 Position=#0

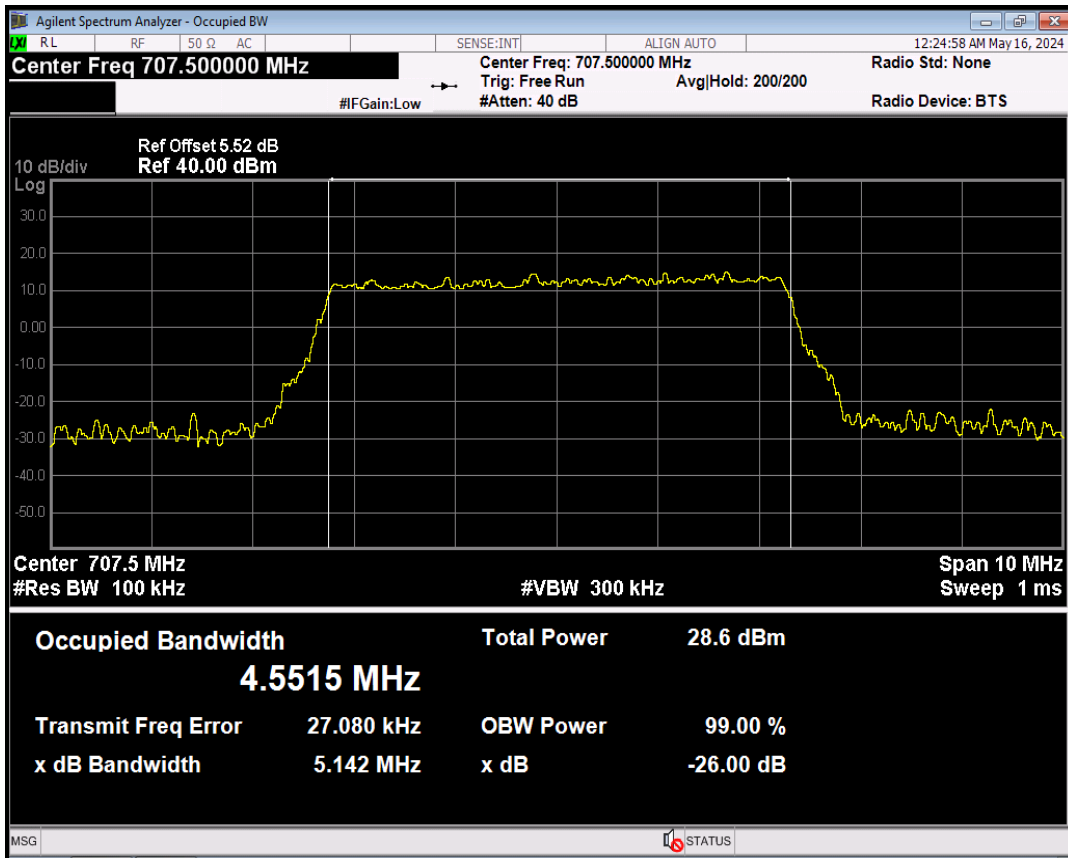




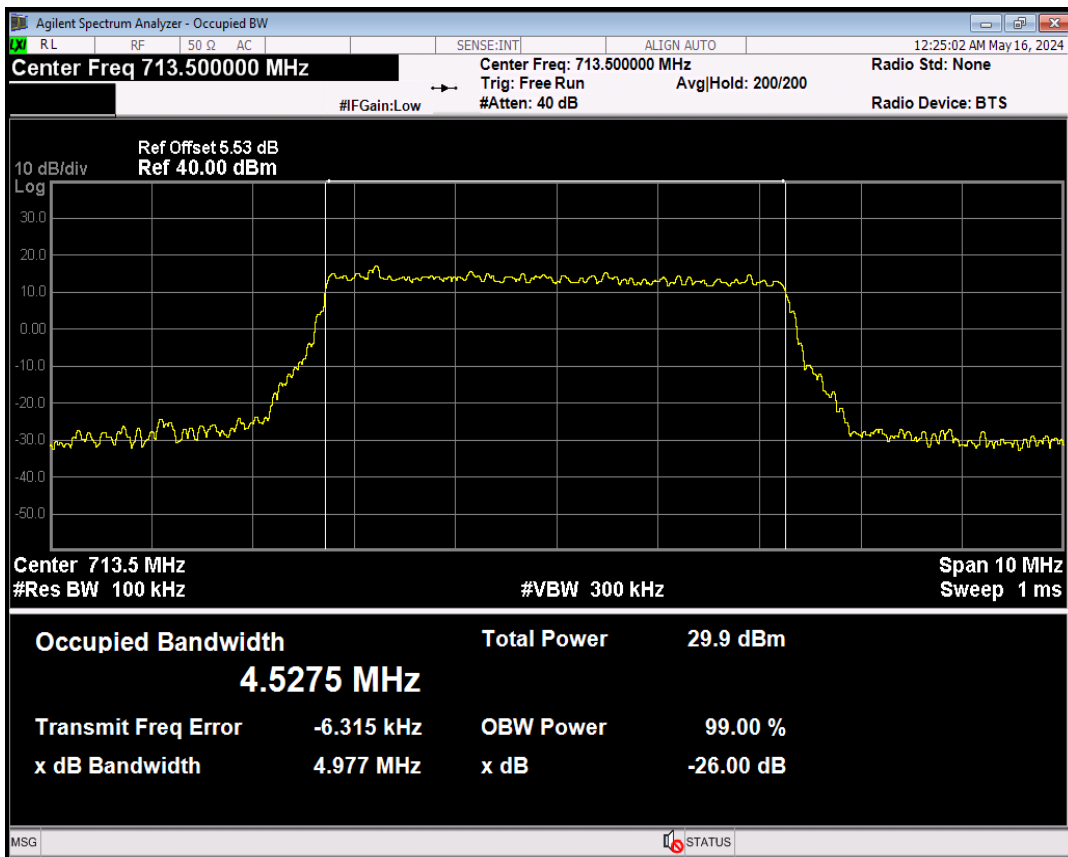
Band12 QPSK BW=5MHz Channel=23095 RB Size=25 Position=#0



Band12 16QAM BW=5MHz Channel=23095 RB Size=25 Position=#0

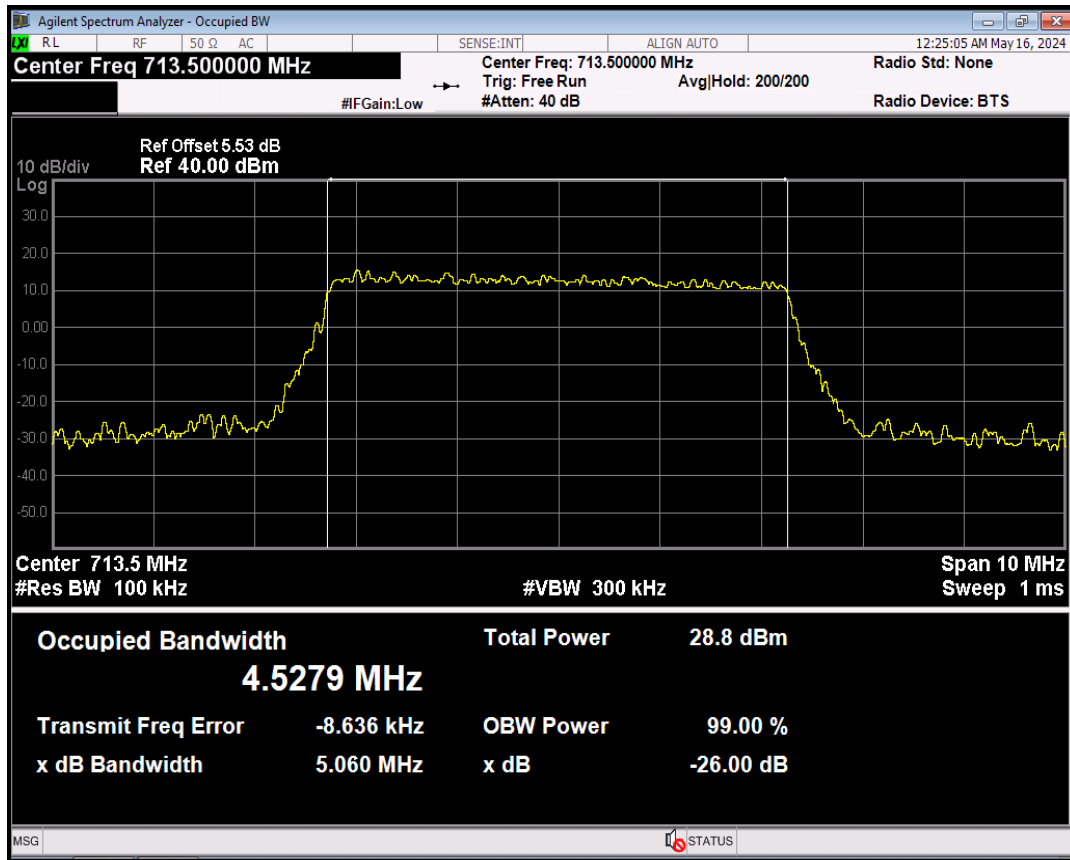


Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0

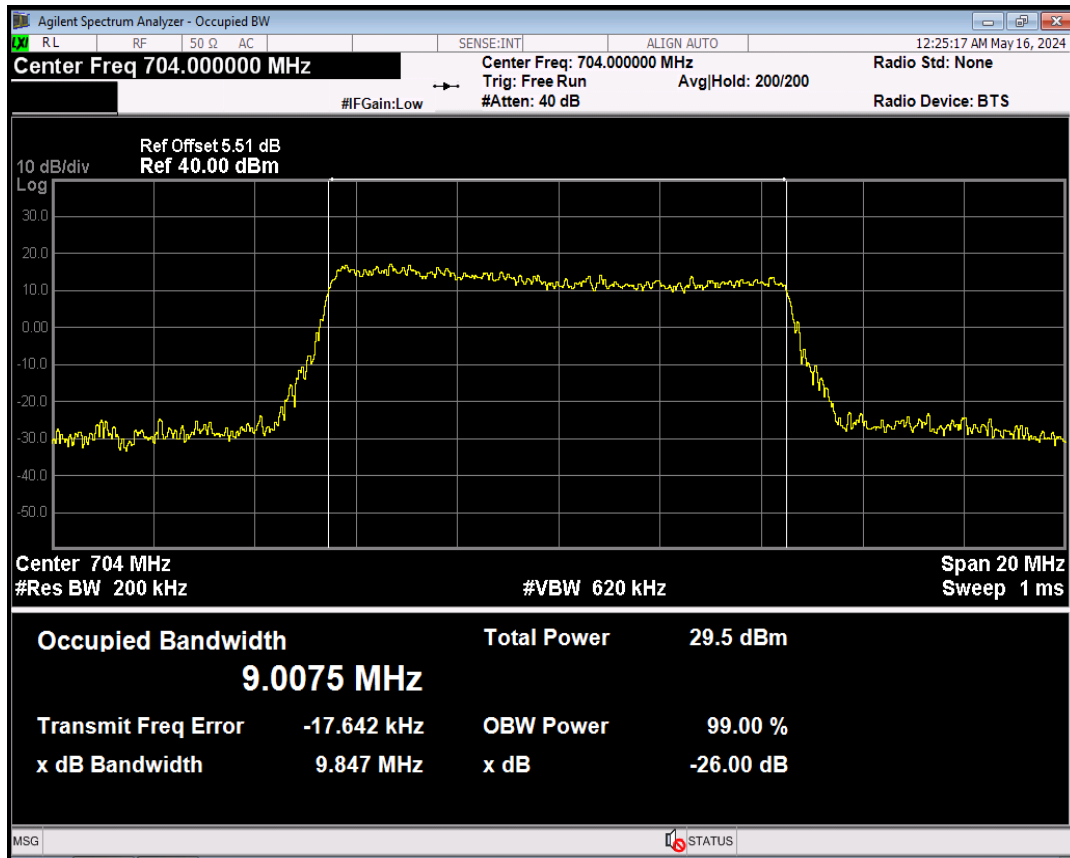




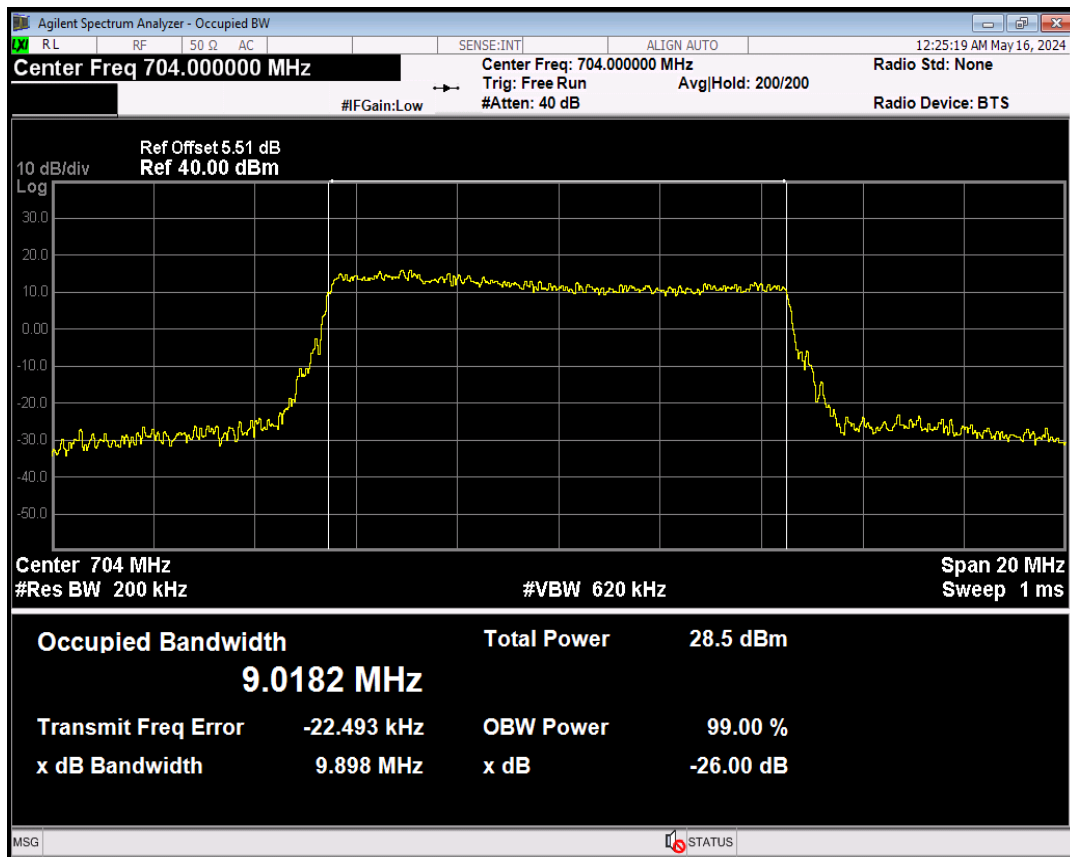
Band12 16QAM BW=5MHz Channel=23155 RB Size=25 Position=#0



Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0

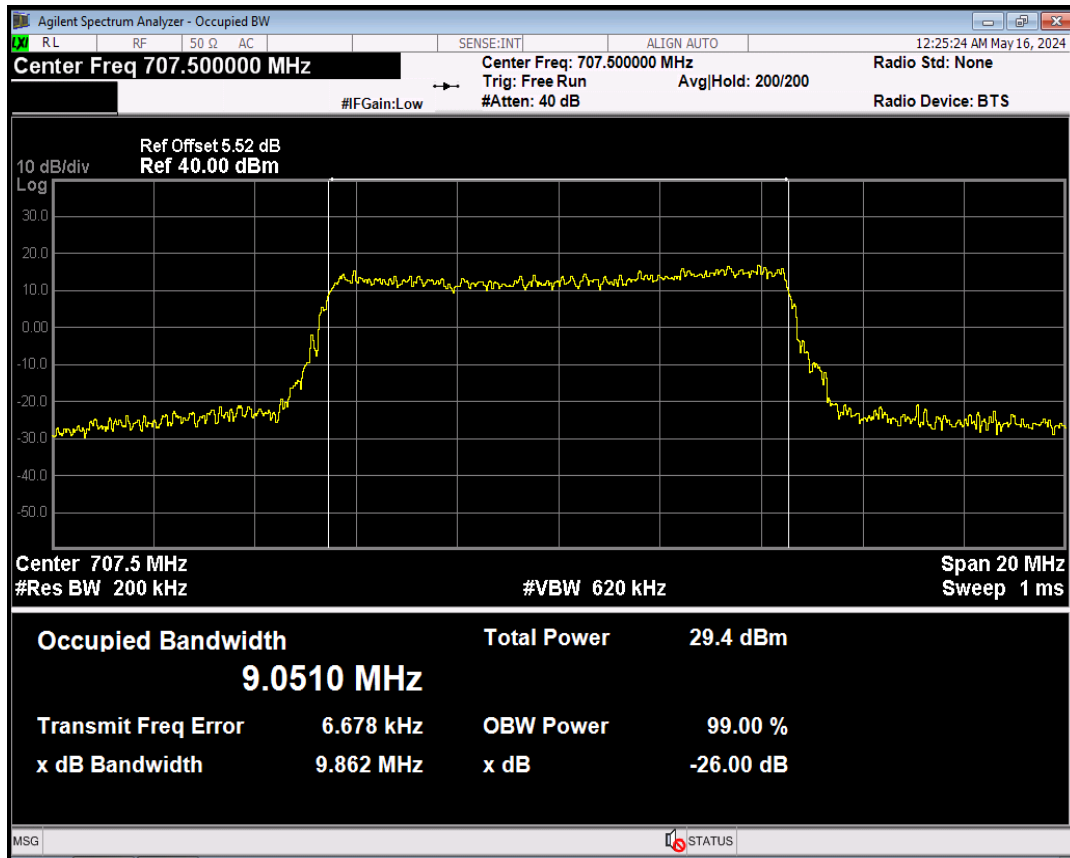


Band12 16QAM BW=10MHz Channel=23060 RB Size=50 Position=#0

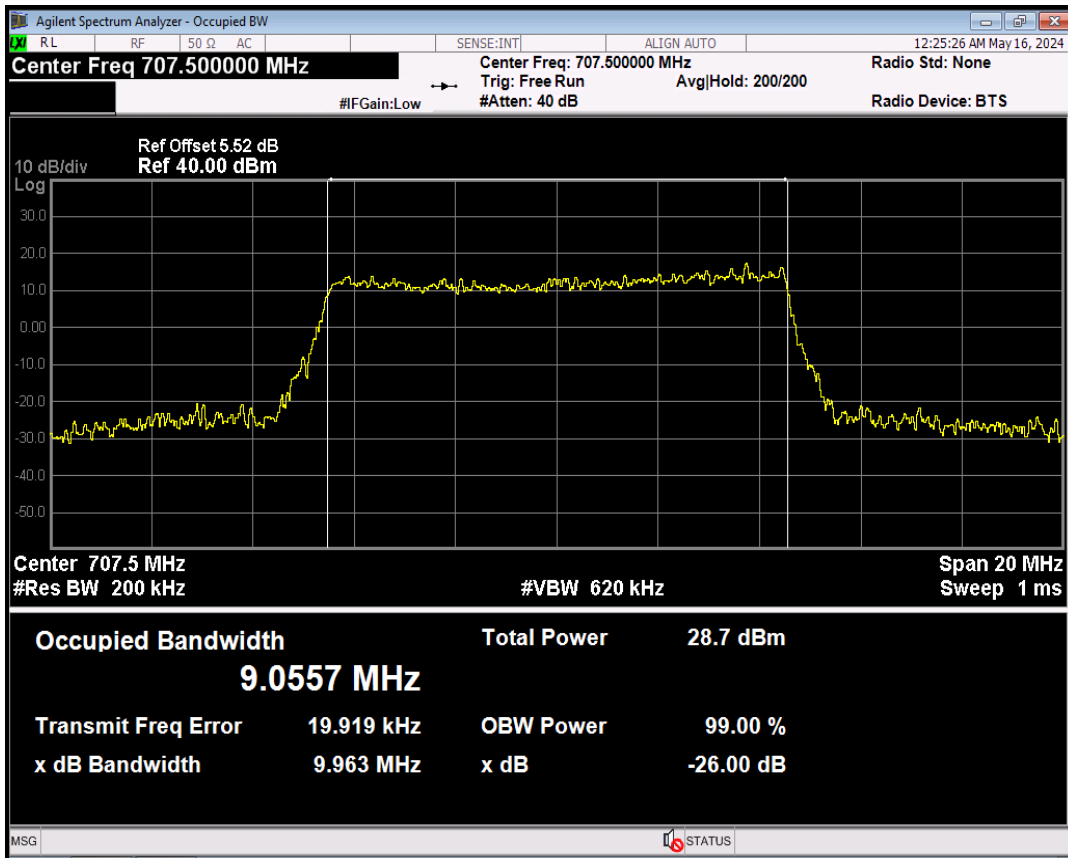




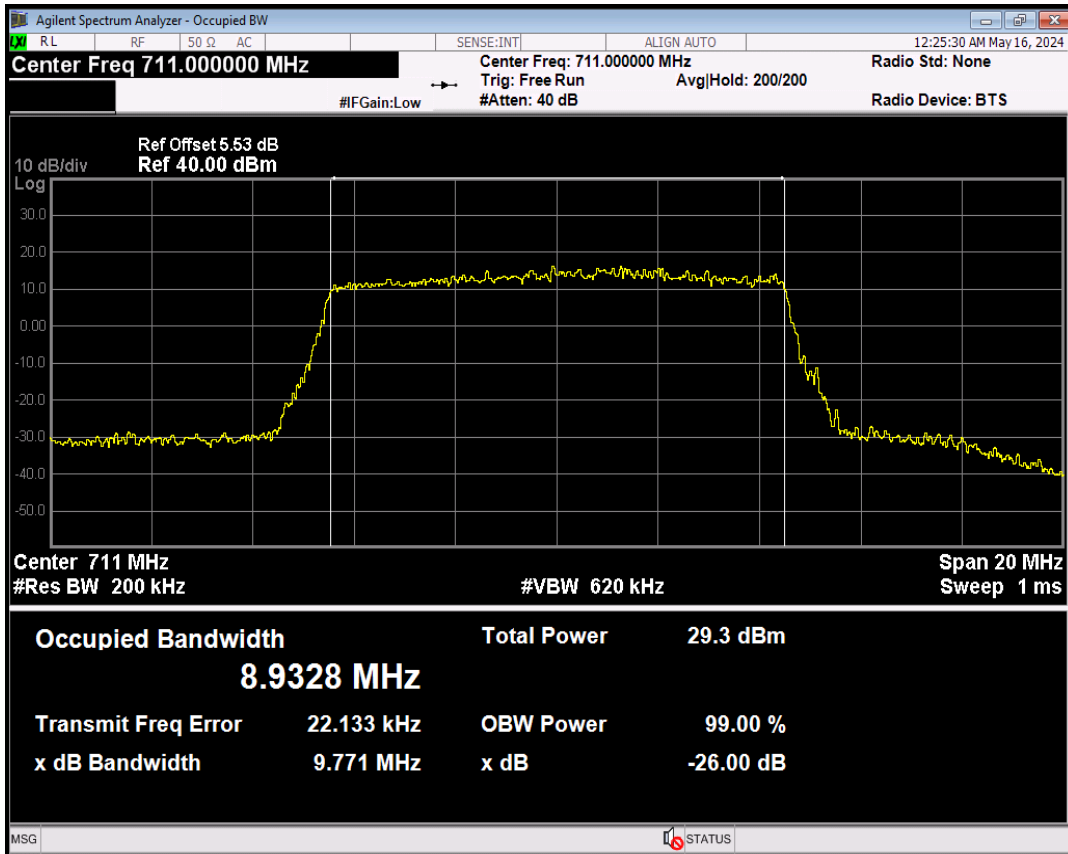
Band12 QPSK BW=10MHz Channel=23095 RB Size=50 Position=#0



Band12 16QAM BW=10MHz Channel=23095 RB Size=50 Position=#0

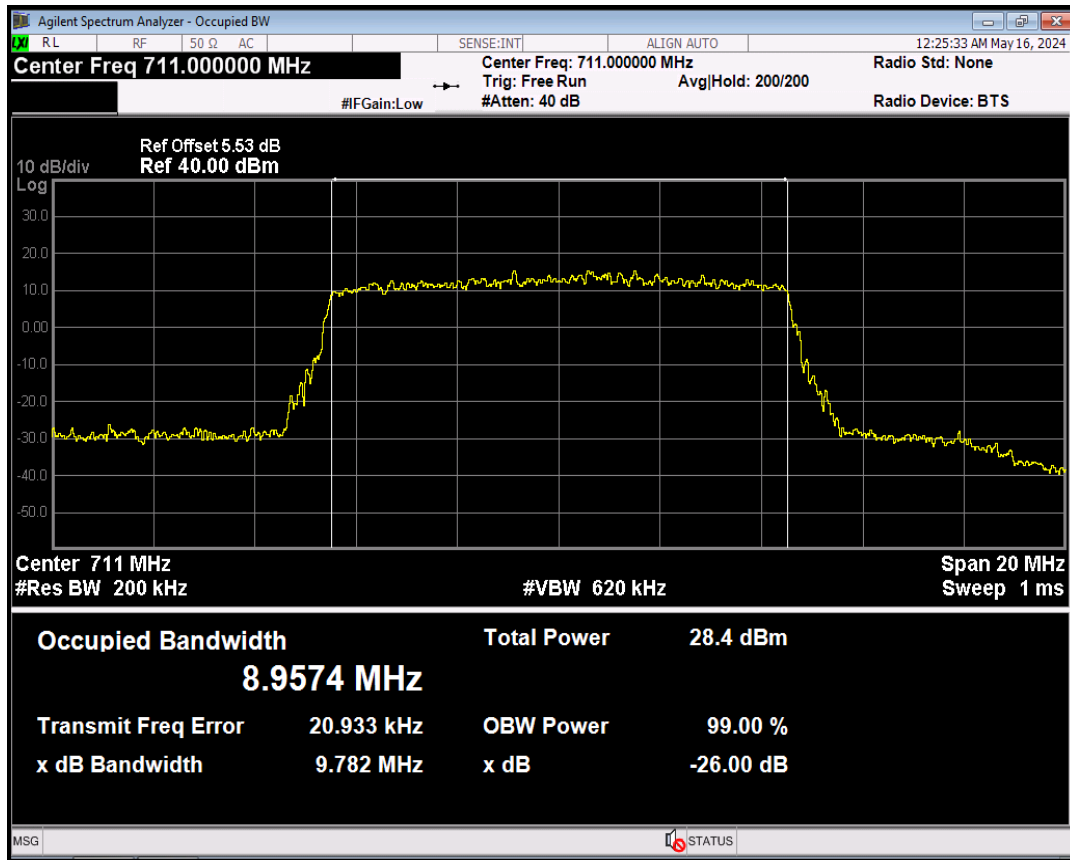


Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0





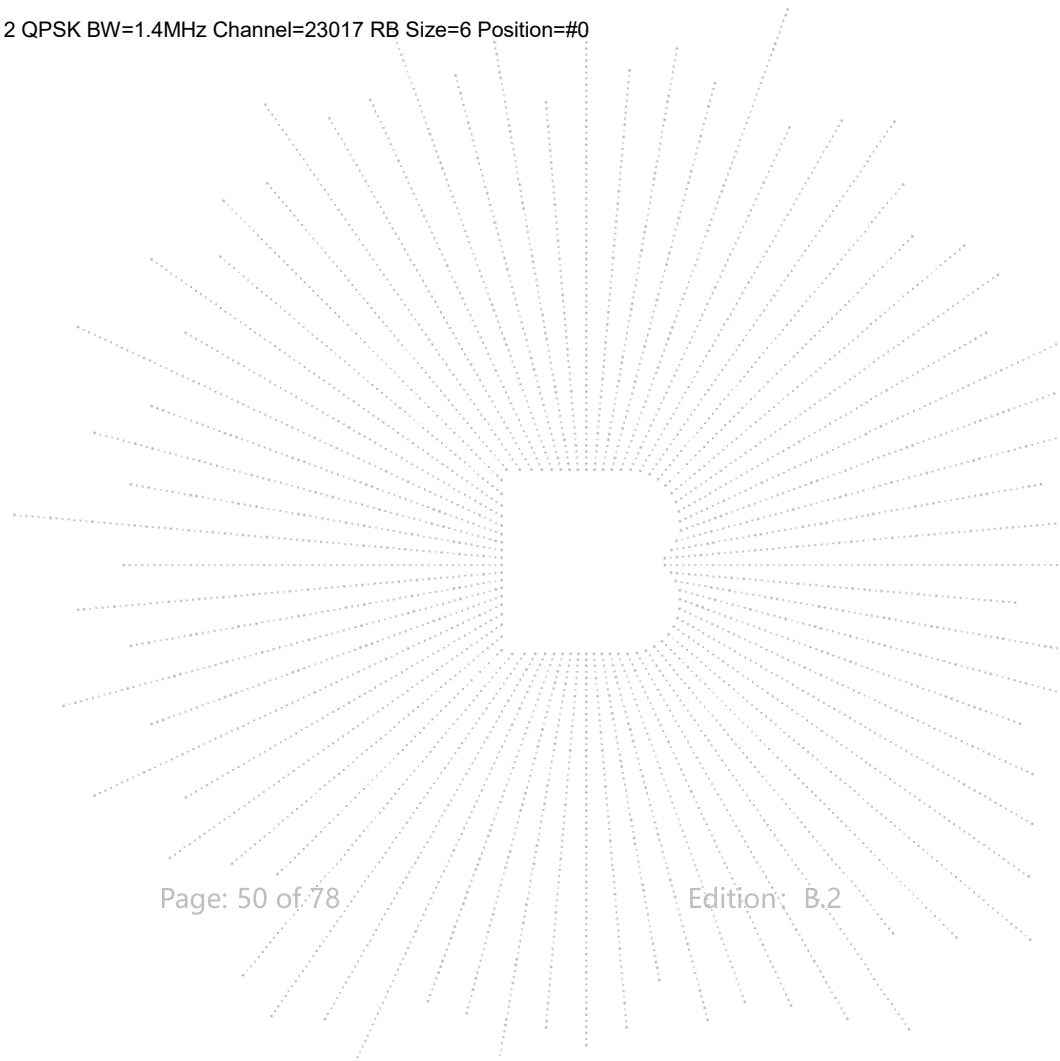
Band12 16QAM BW=10MHz Channel=23130 RB Size=50 Position=#0

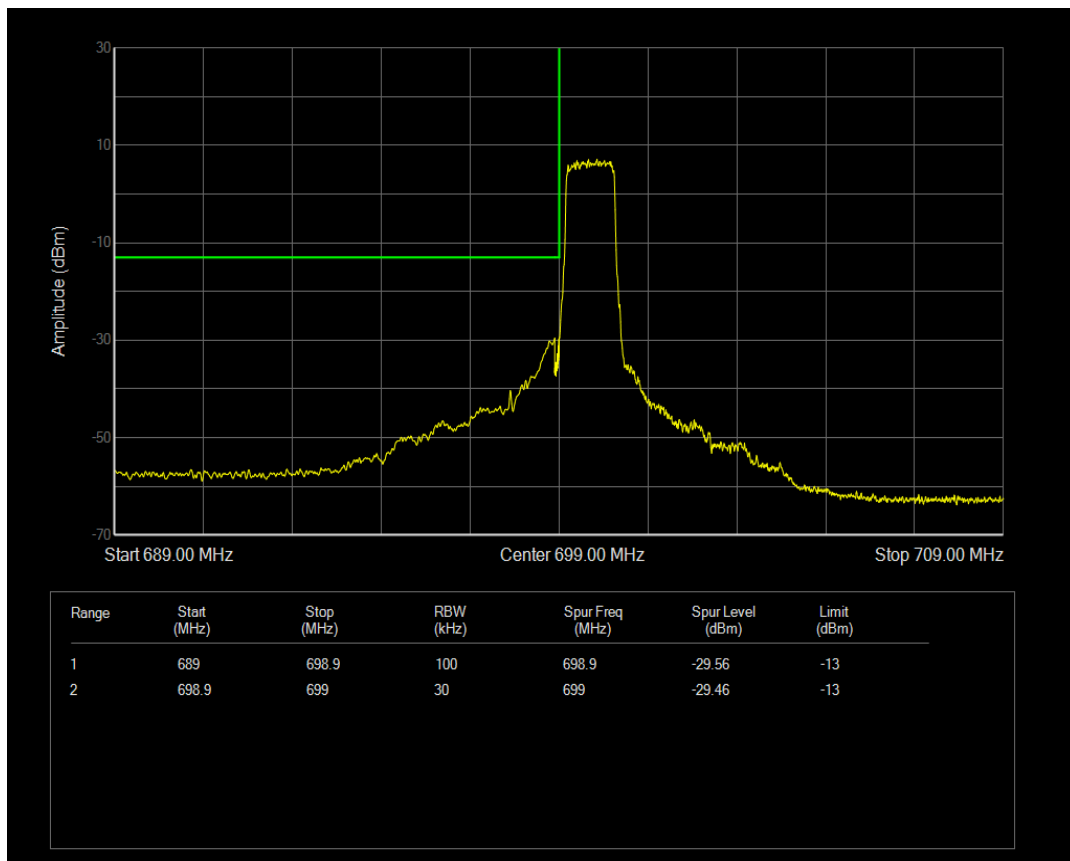


Appendix 5. Band edge

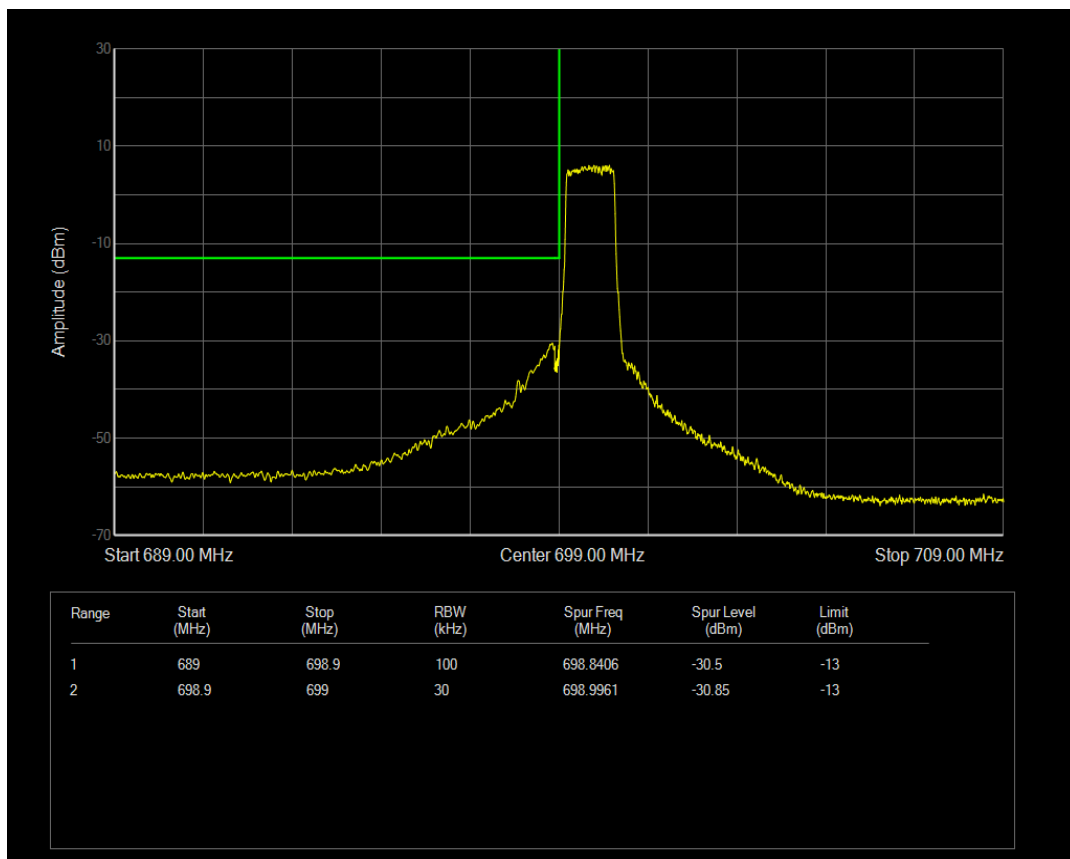
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band12	1.4	23017	6	#0	QPSK	699.00	-29.46	-13	PASS
Band12	1.4	23017	6	#0	16QAM	698.84	-30.50	-13	PASS
Band12	1.4	23173	6	#0	QPSK	716.00	-29.21	-13	PASS
Band12	1.4	23173	6	#0	16QAM	716.24	-29.50	-13	PASS
Band12	3	23025	15	#0	QPSK	698.90	-33.67	-13	PASS
Band12	3	23025	15	#0	16QAM	698.79	-32.56	-13	PASS
Band12	3	23165	15	#0	QPSK	716.26	-33.72	-13	PASS
Band12	3	23165	15	#0	16QAM	716.11	-33.13	-13	PASS
Band12	5	23035	25	#0	QPSK	699.00	-28.65	-13	PASS
Band12	5	23035	25	#0	16QAM	699.00	-30.34	-13	PASS
Band12	5	23155	25	#0	QPSK	716.00	-29.56	-13	PASS
Band12	5	23155	25	#0	16QAM	716.03	-30.58	-13	PASS
Band12	10	23060	50	#0	QPSK	698.90	-31.21	-13	PASS
Band12	10	23060	50	#0	16QAM	698.89	-33.57	-13	PASS
Band12	10	23130	50	#0	QPSK	716.14	-34.54	-13	PASS
Band12	10	23130	50	#0	16QAM	716.11	-33.07	-13	PASS

Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0



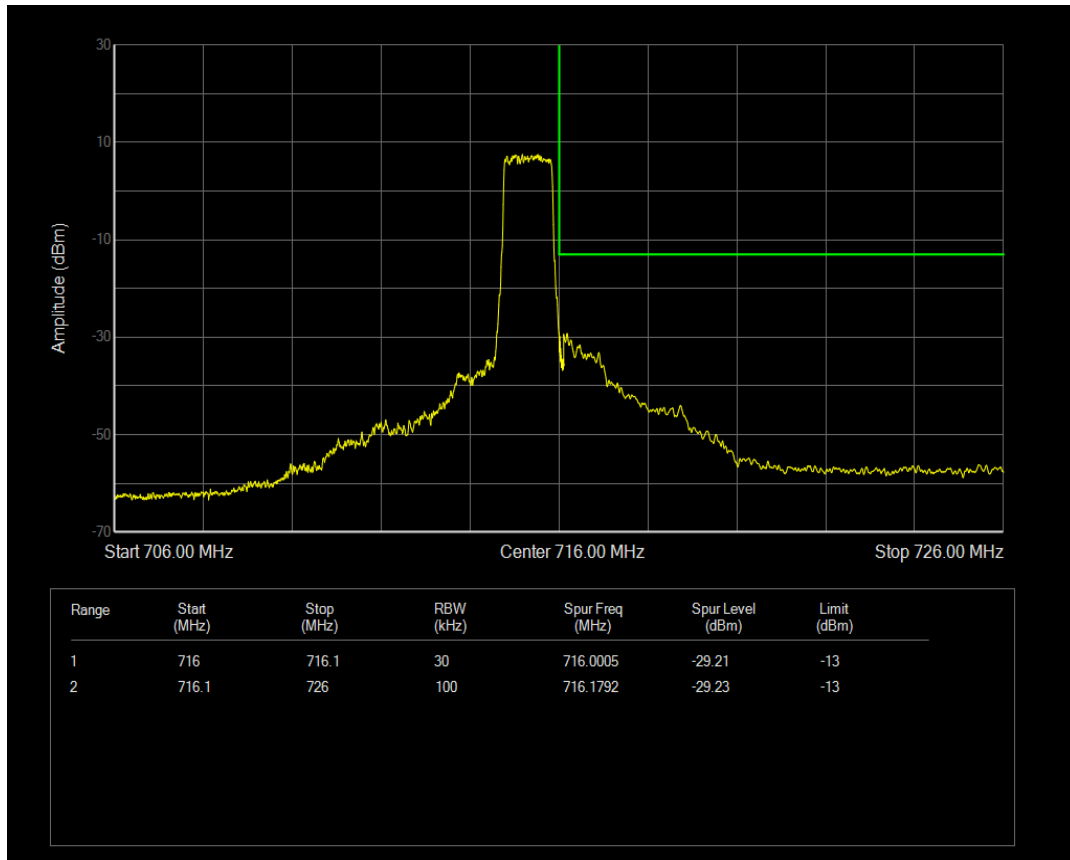


Band12 16QAM BW=1.4MHz Channel=23017 RB Size=6 Position=#0

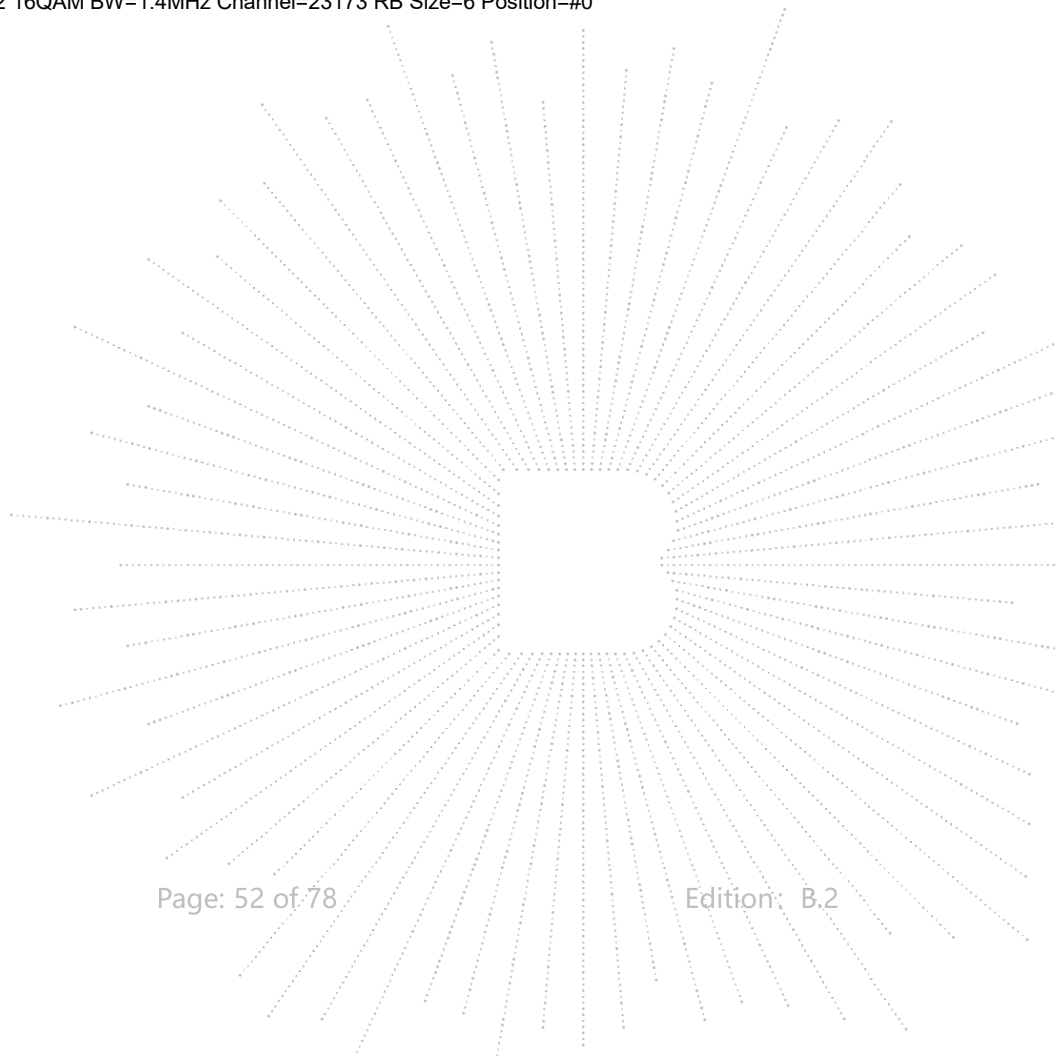


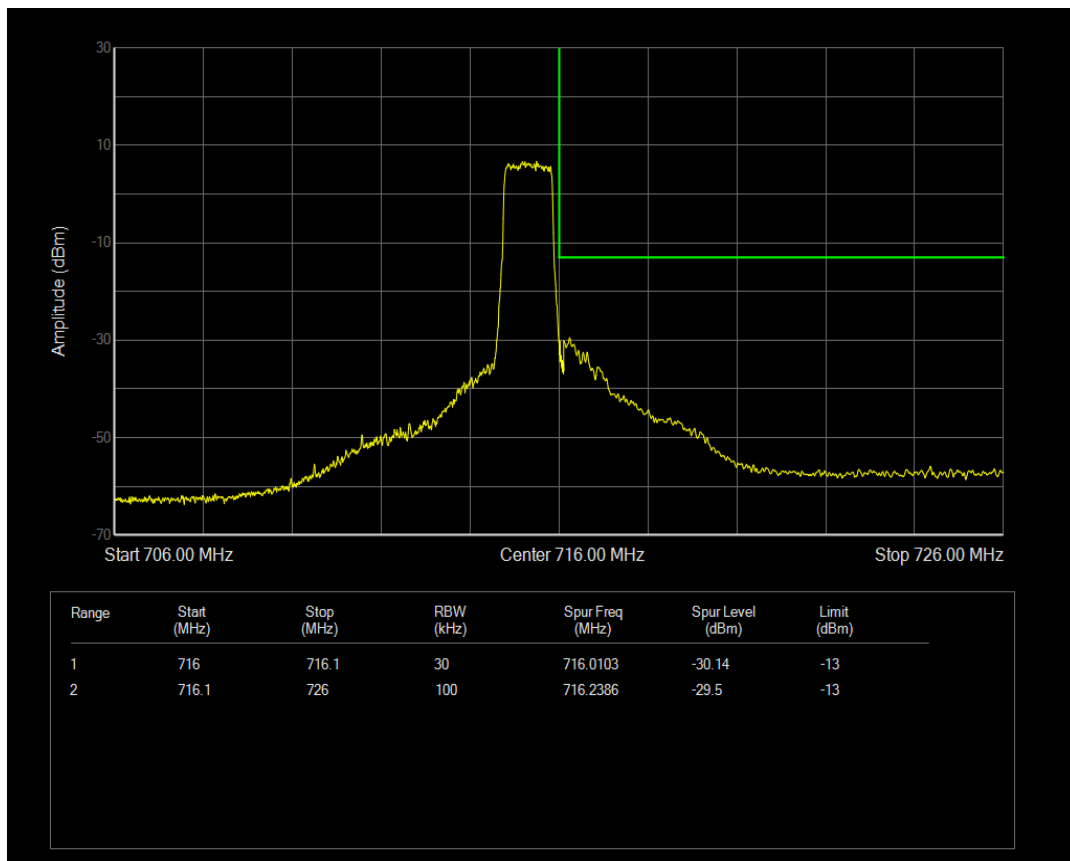


Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0

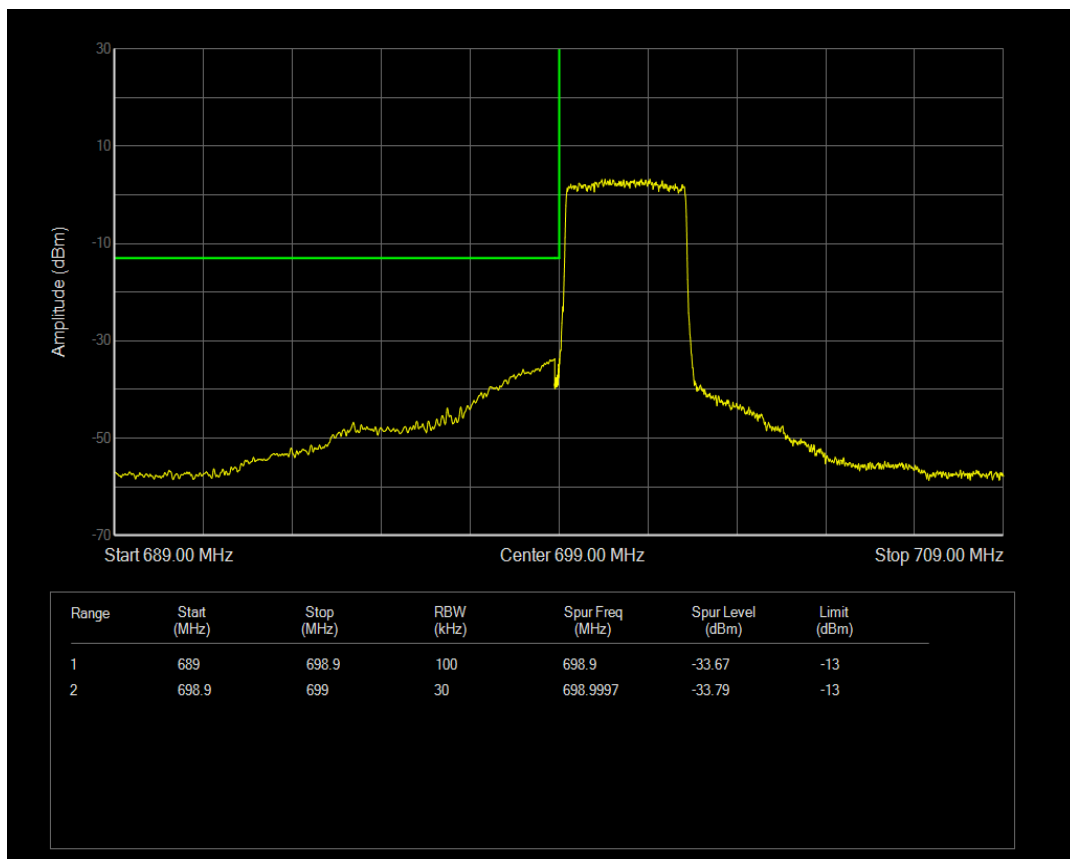


Band12 16QAM BW=1.4MHz Channel=23173 RB Size=6 Position=#0



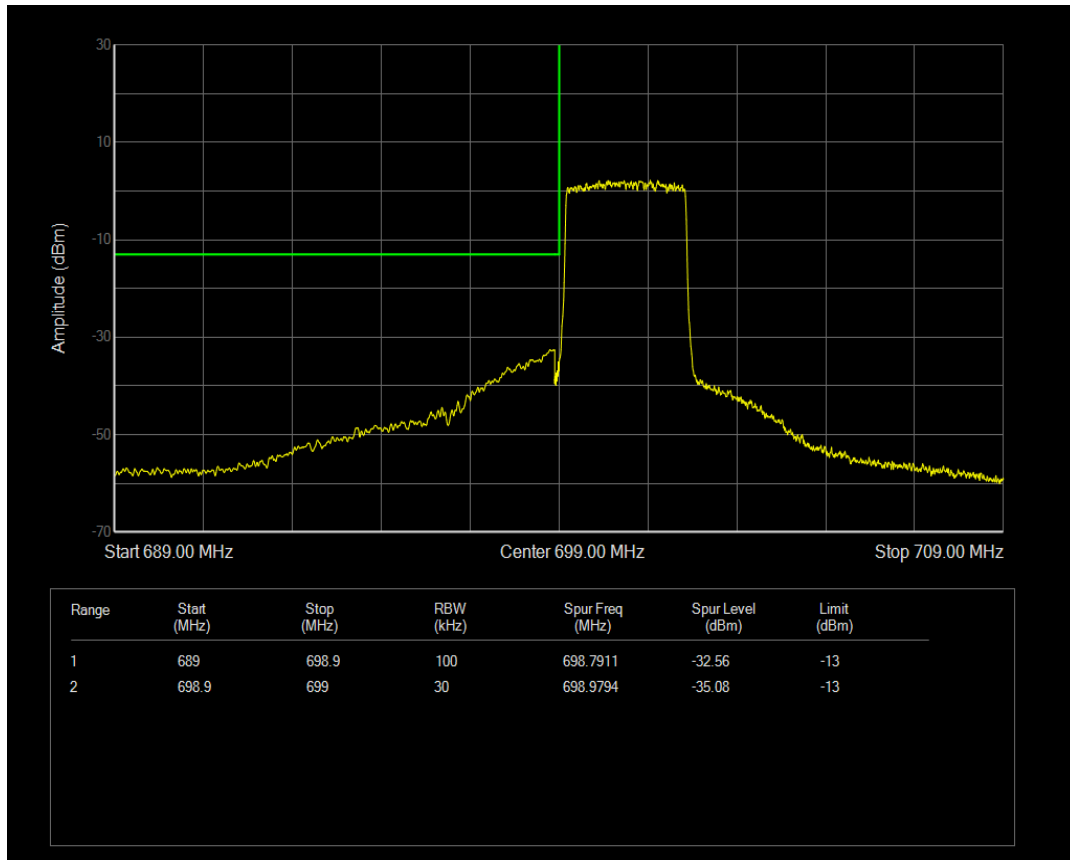


Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0

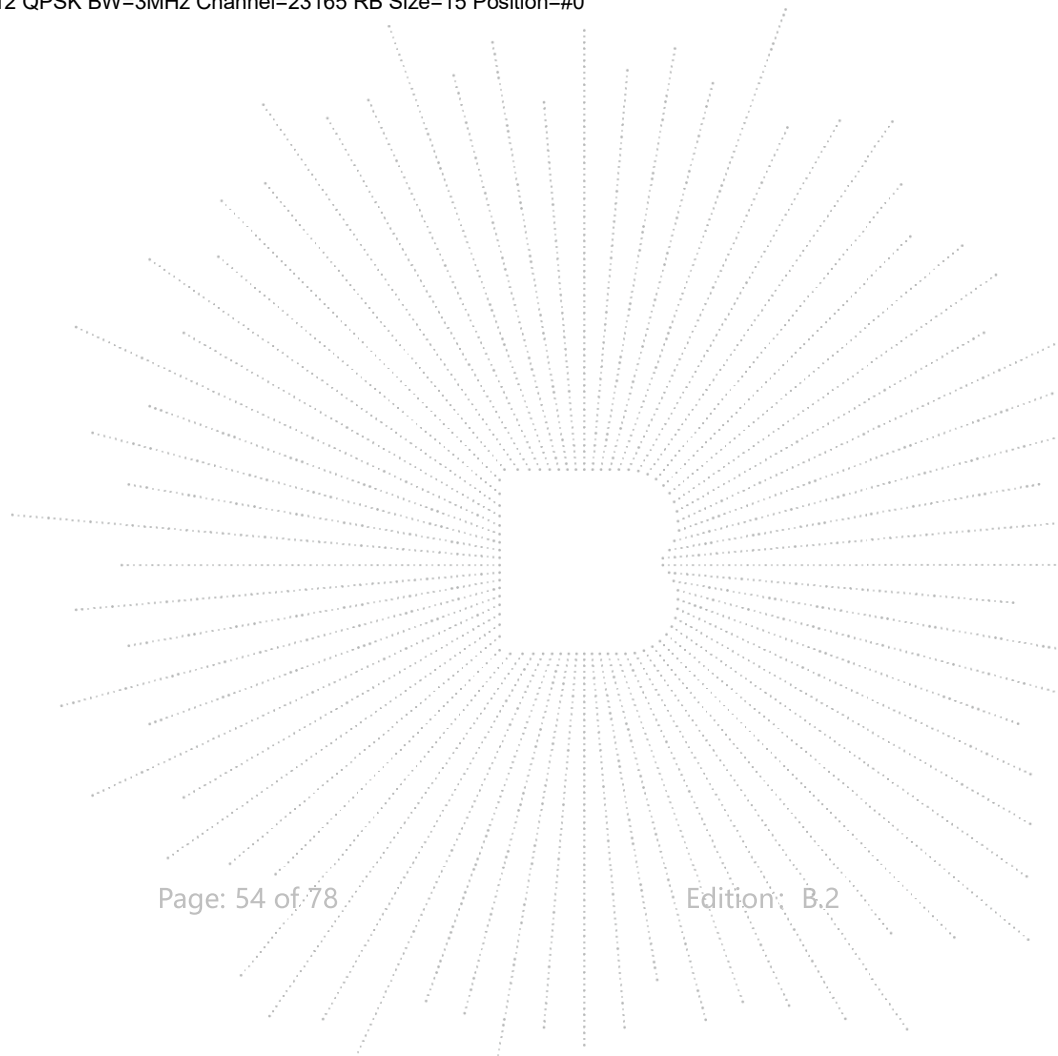


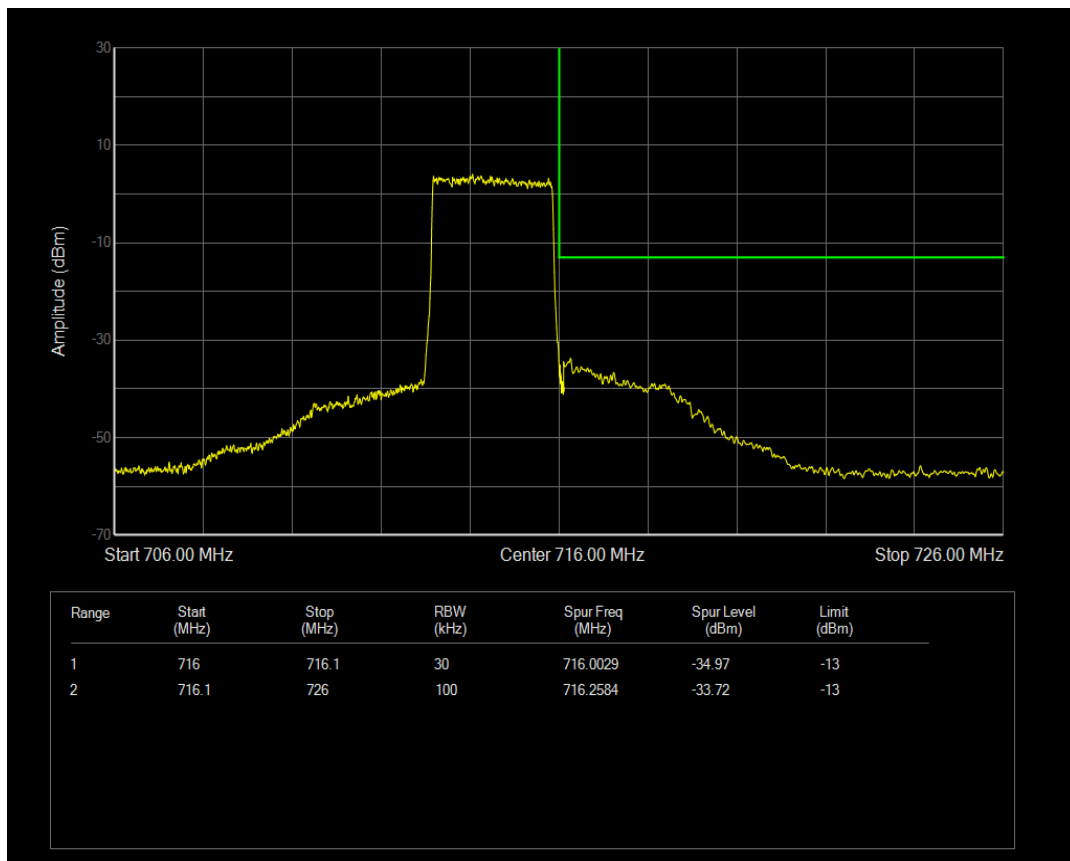


Band12 16QAM BW=3MHz Channel=23025 RB Size=15 Position=#0

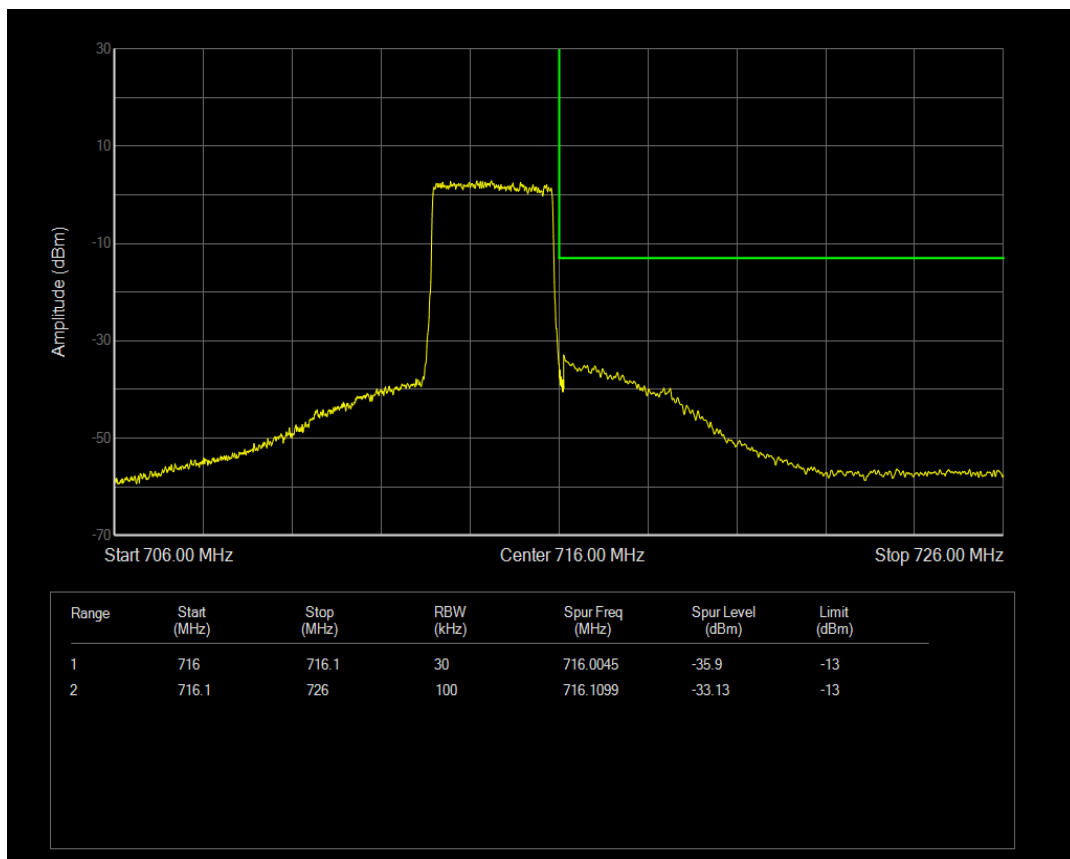


Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0



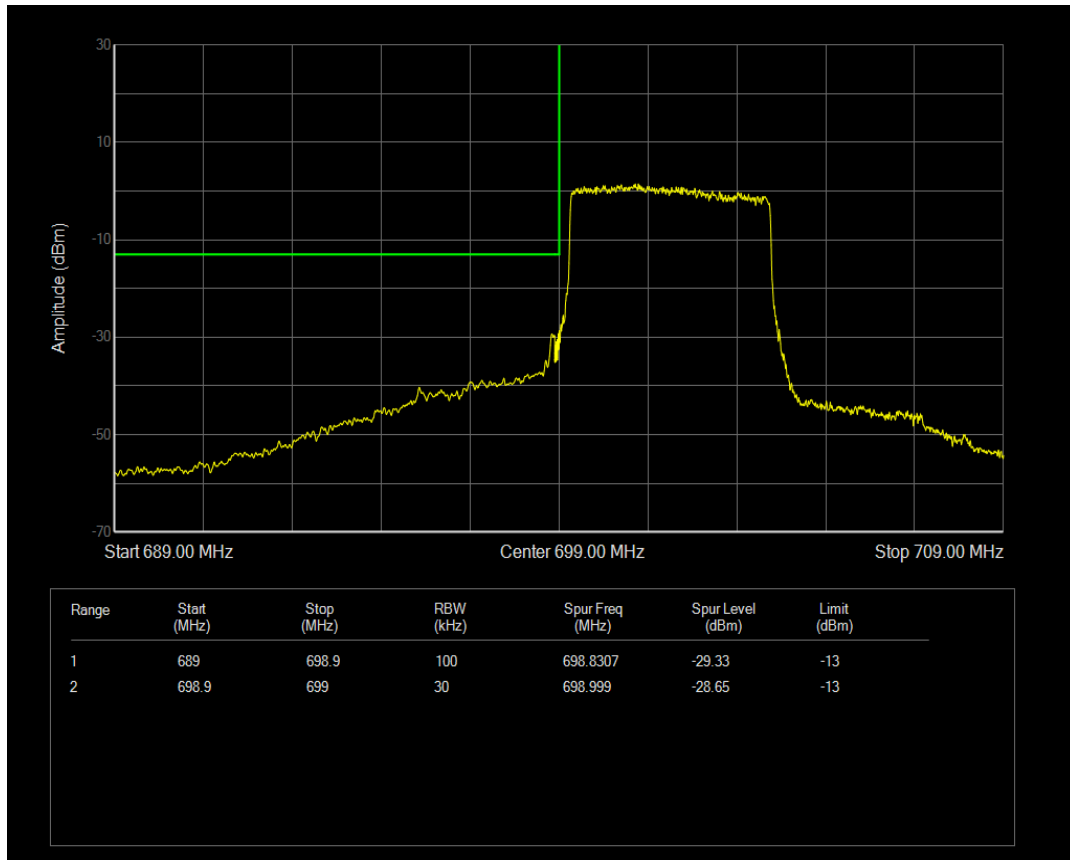


Band12 16QAM BW=3MHz Channel=23165 RB Size=15 Position=#0

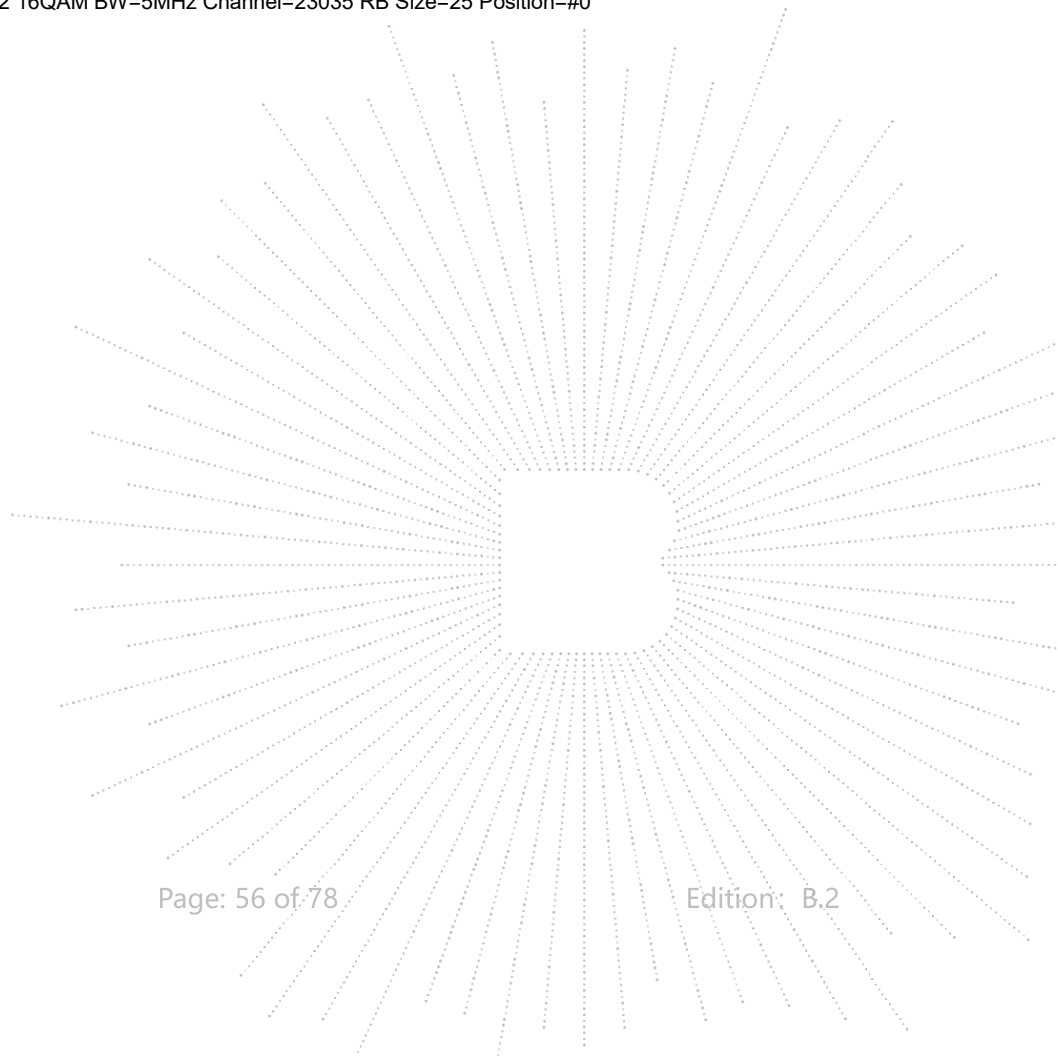


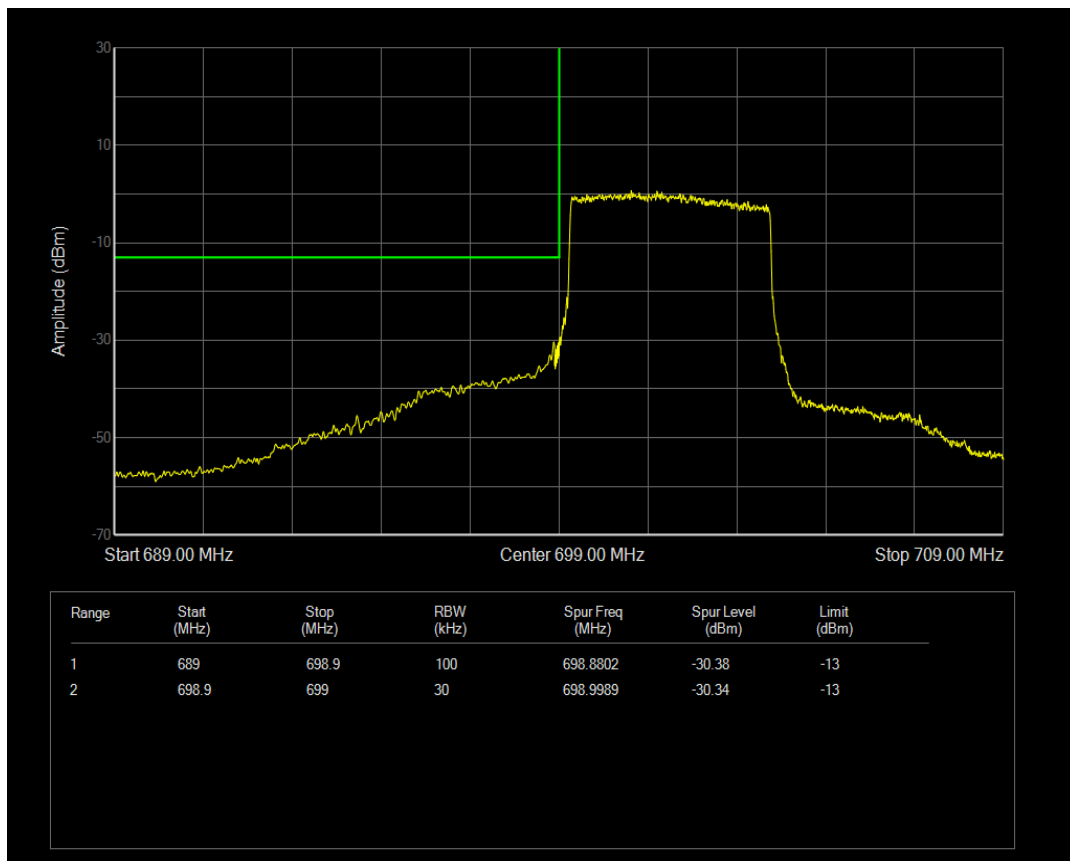


Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0

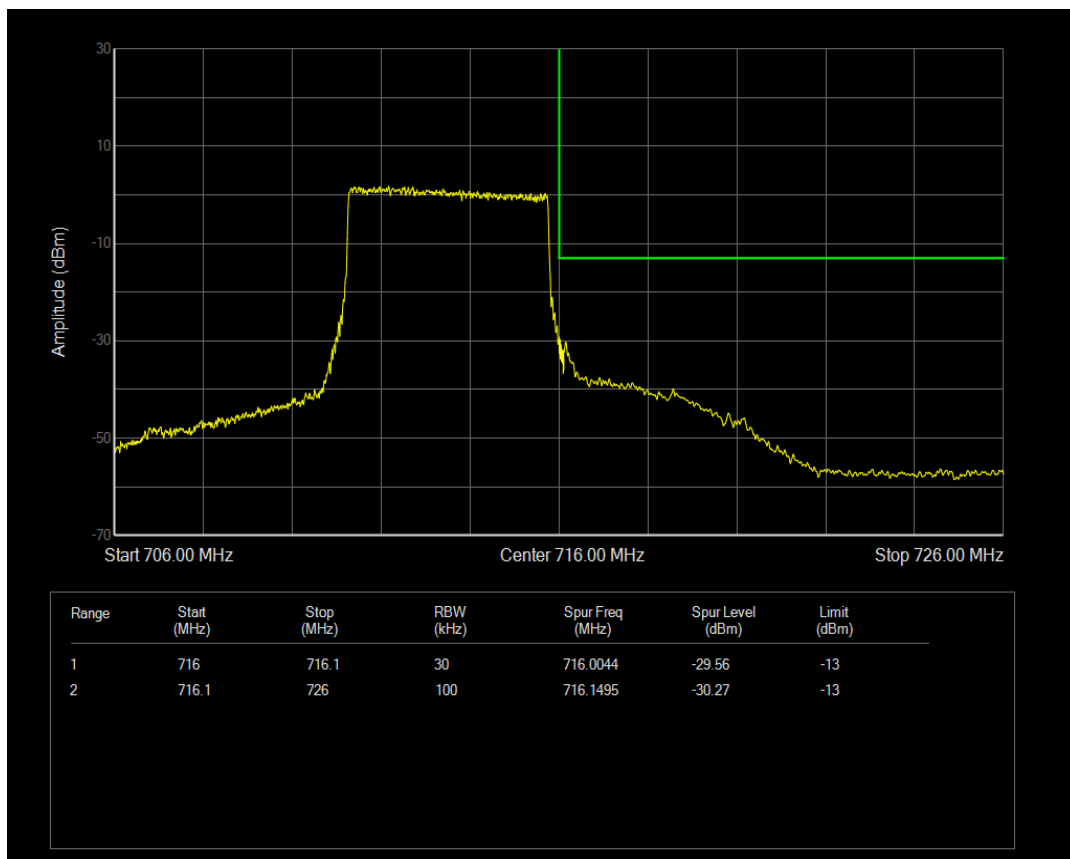


Band12 16QAM BW=5MHz Channel=23035 RB Size=25 Position=#0



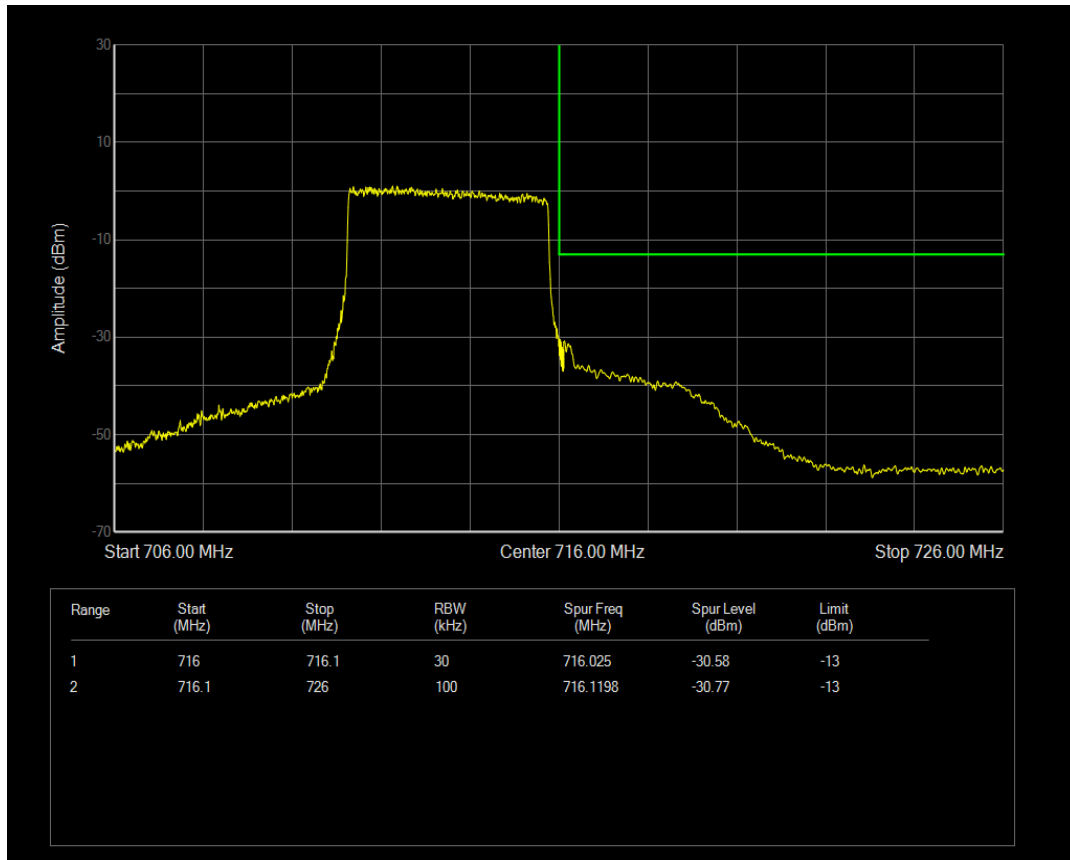


Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0

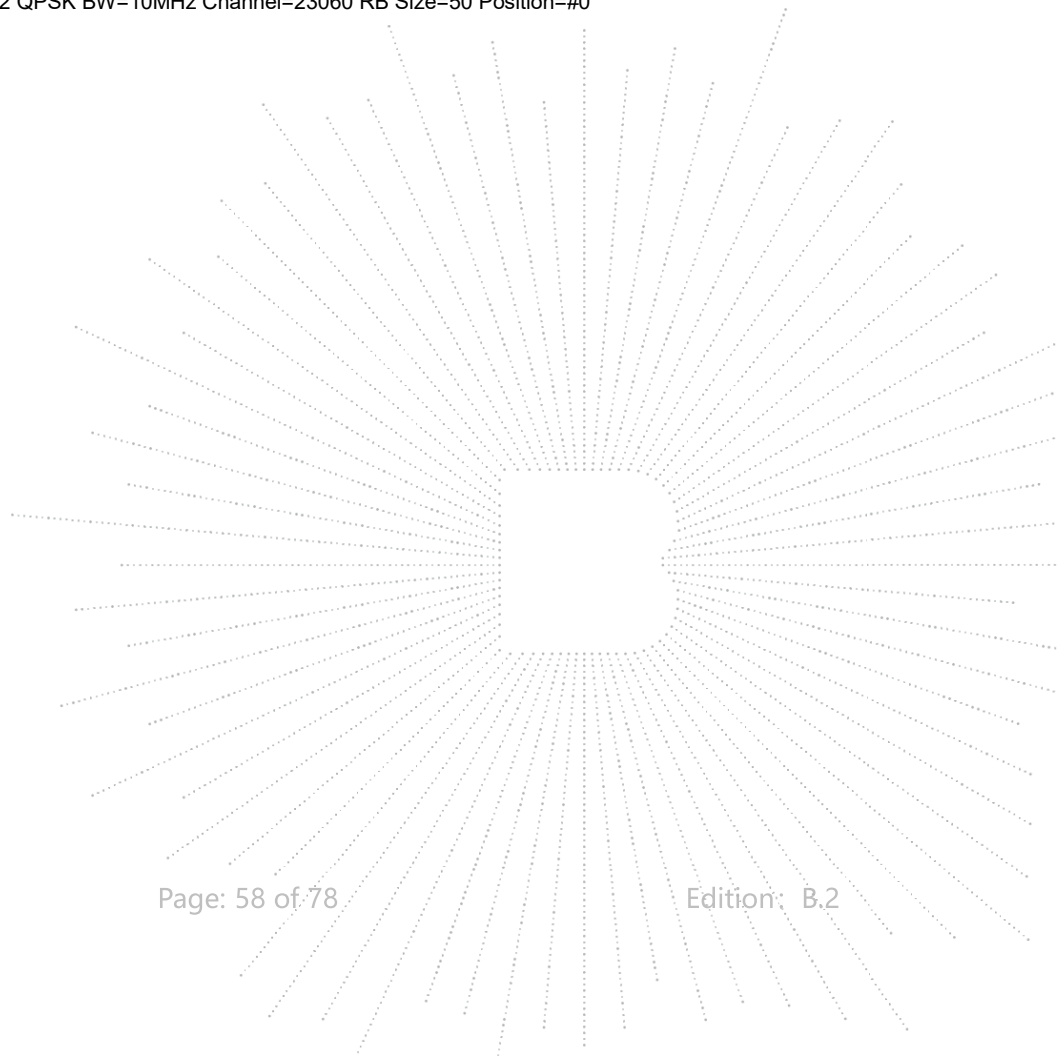


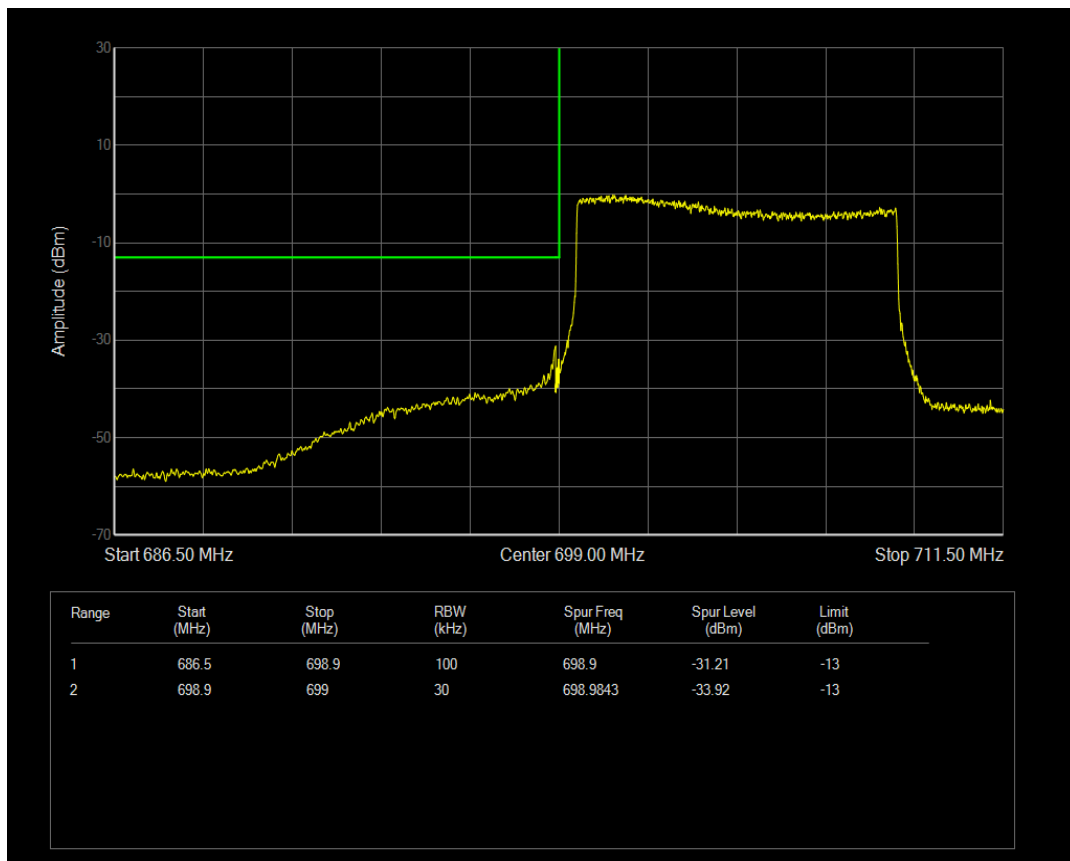


Band12 16QAM BW=5MHz Channel=23155 RB Size=25 Position=#0

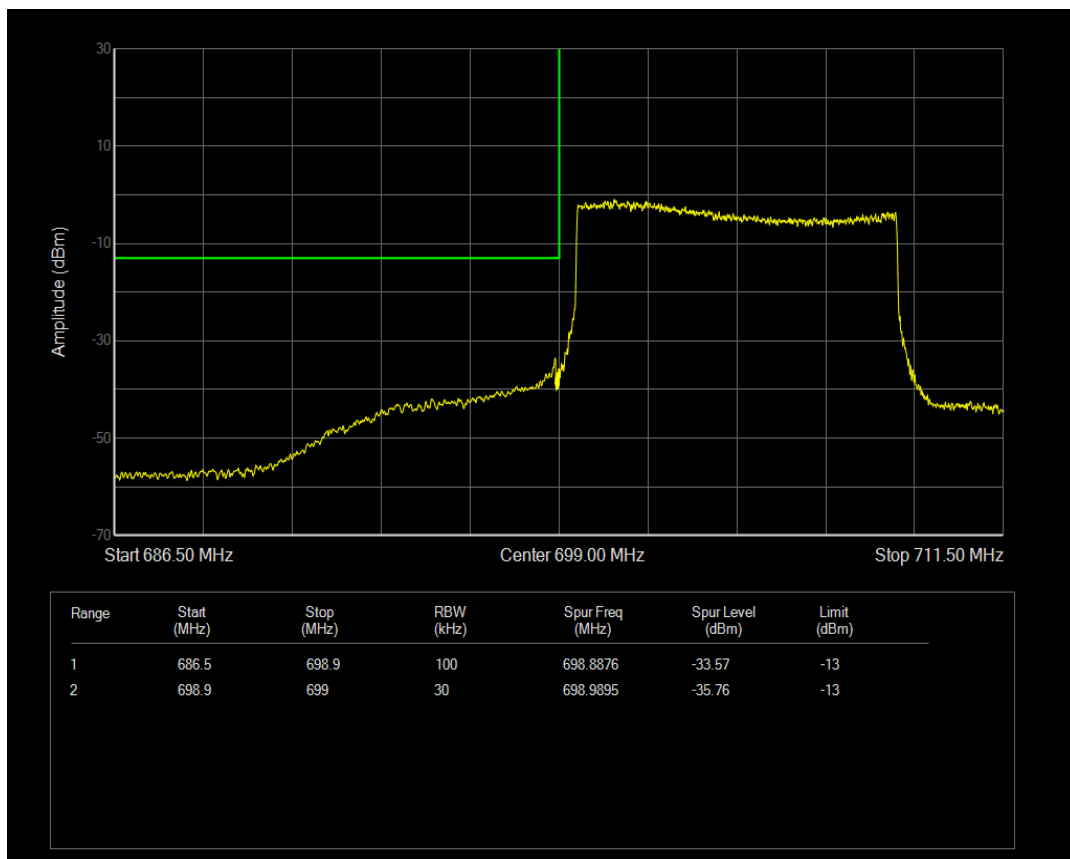


Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0



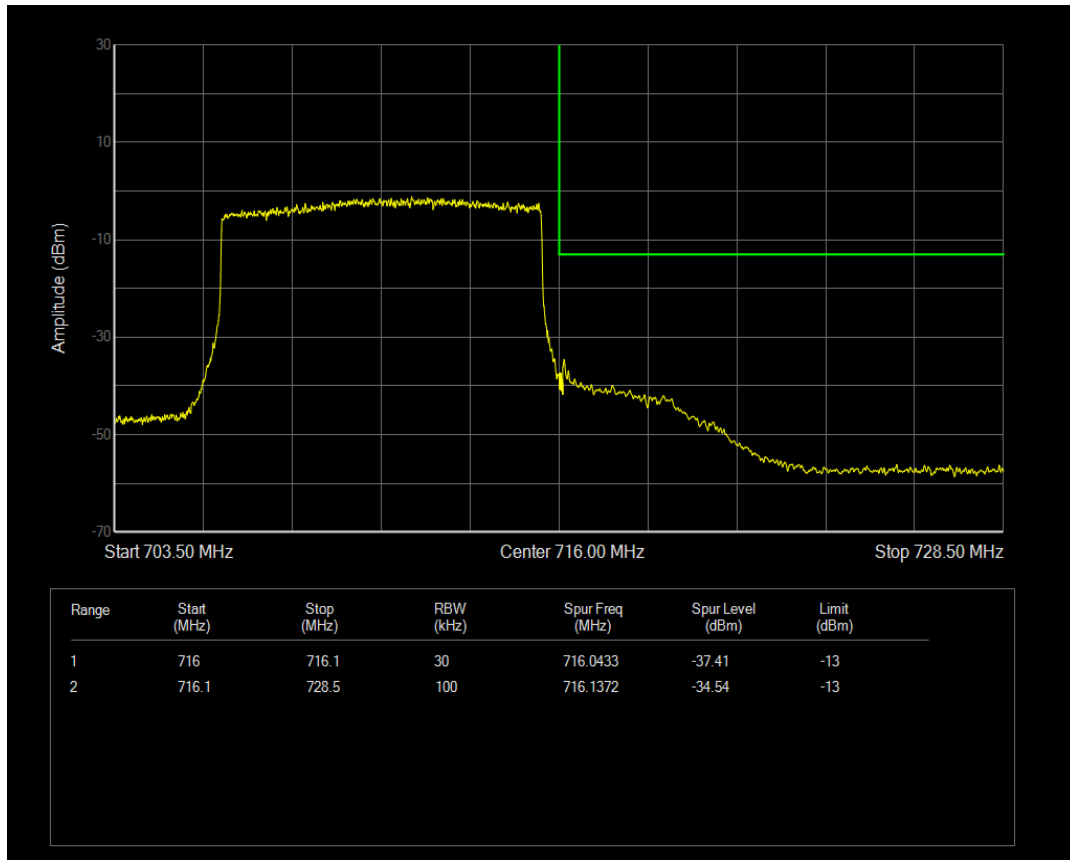


Band12 16QAM BW=10MHz Channel=23060 RB Size=50 Position=#0

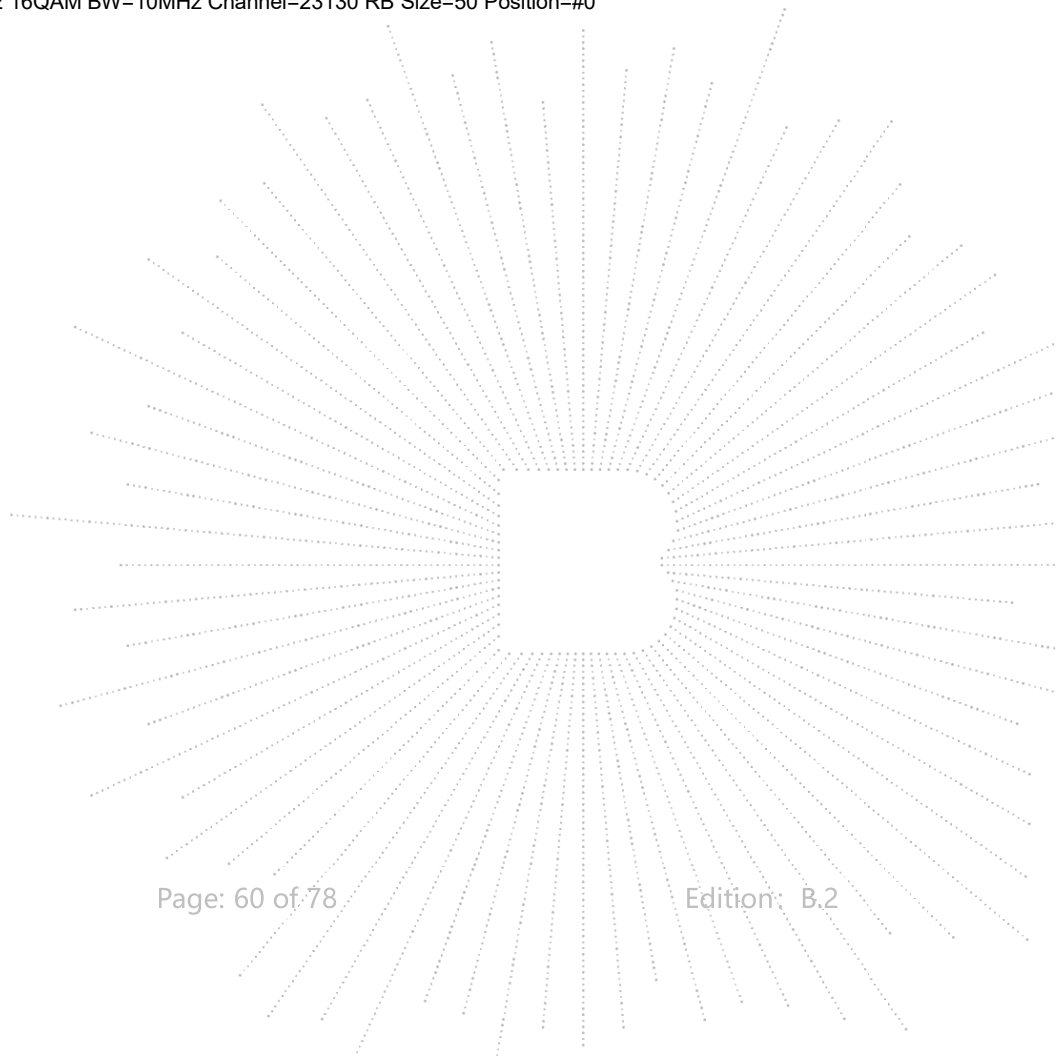


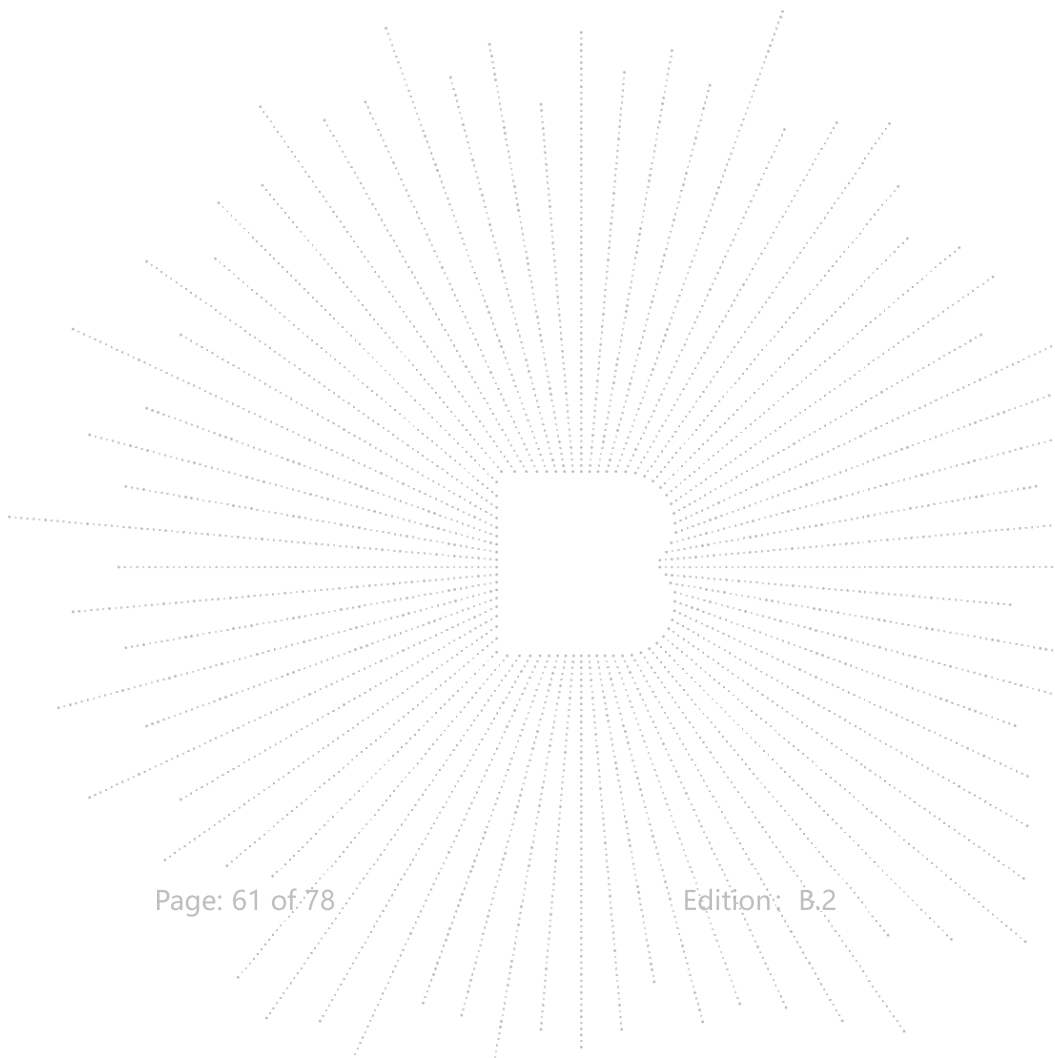
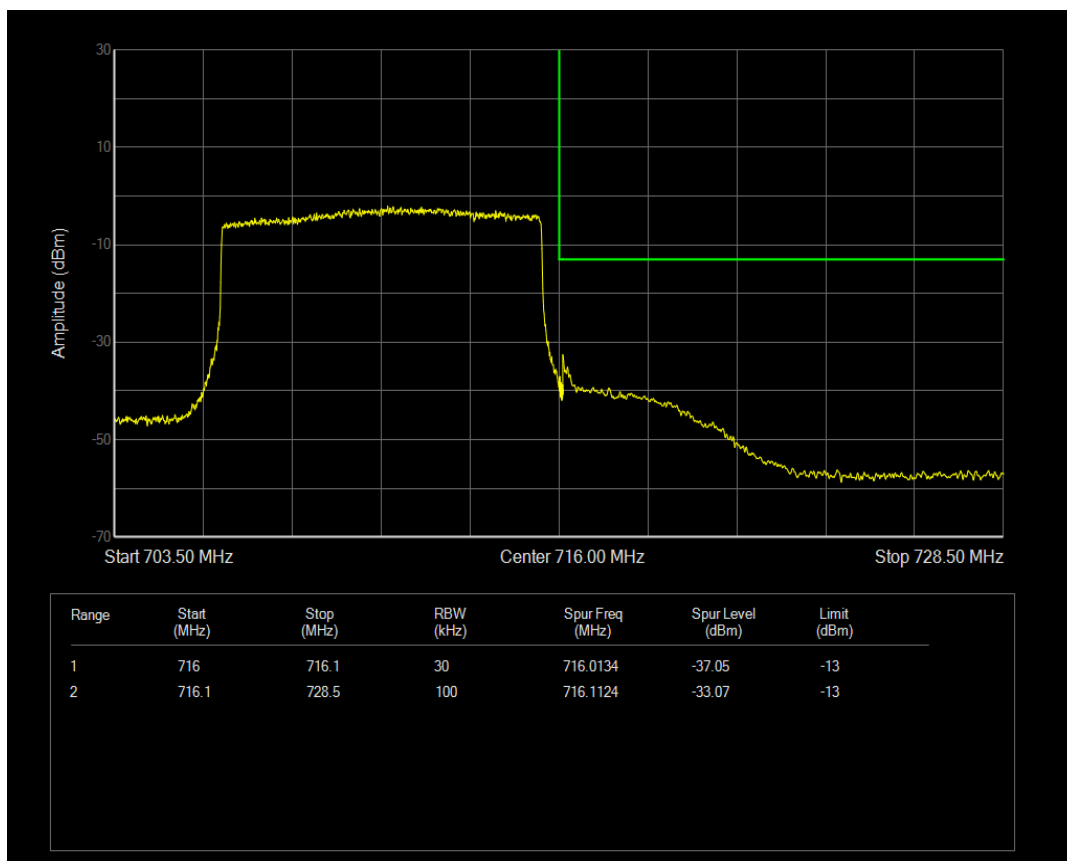


Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0



Band12 16QAM BW=10MHz Channel=23130 RB Size=50 Position=#0

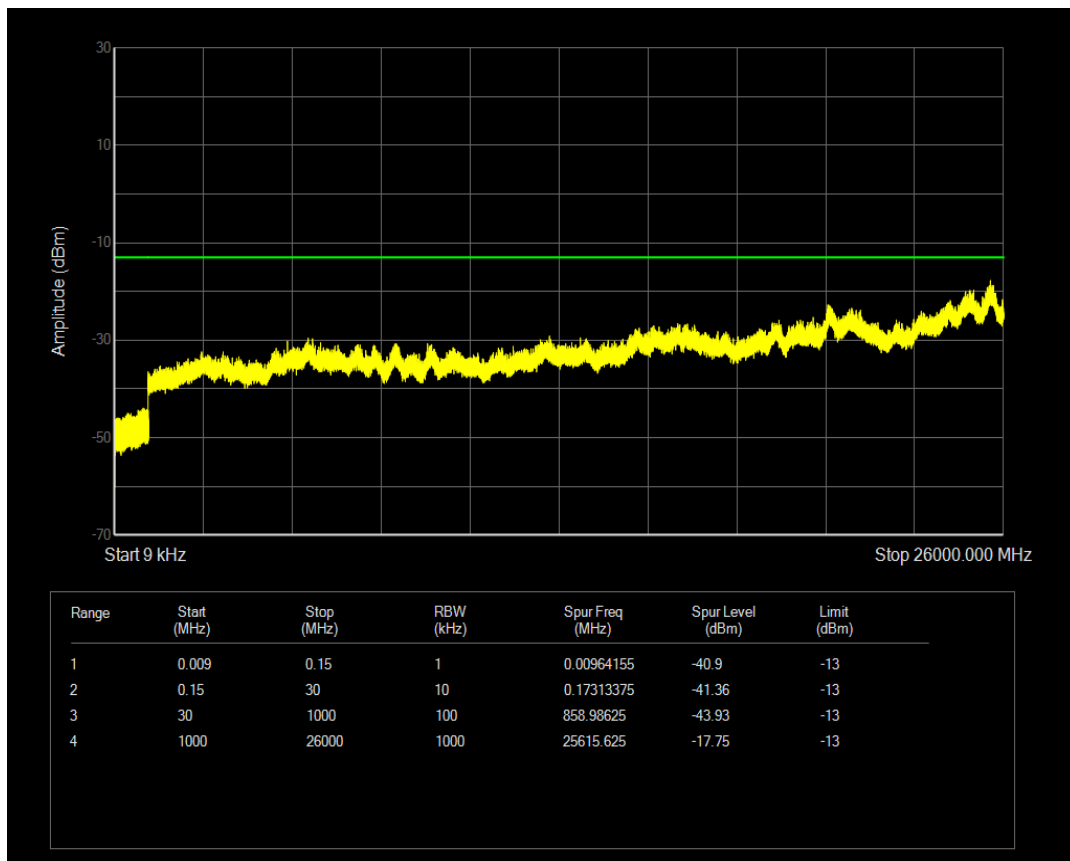




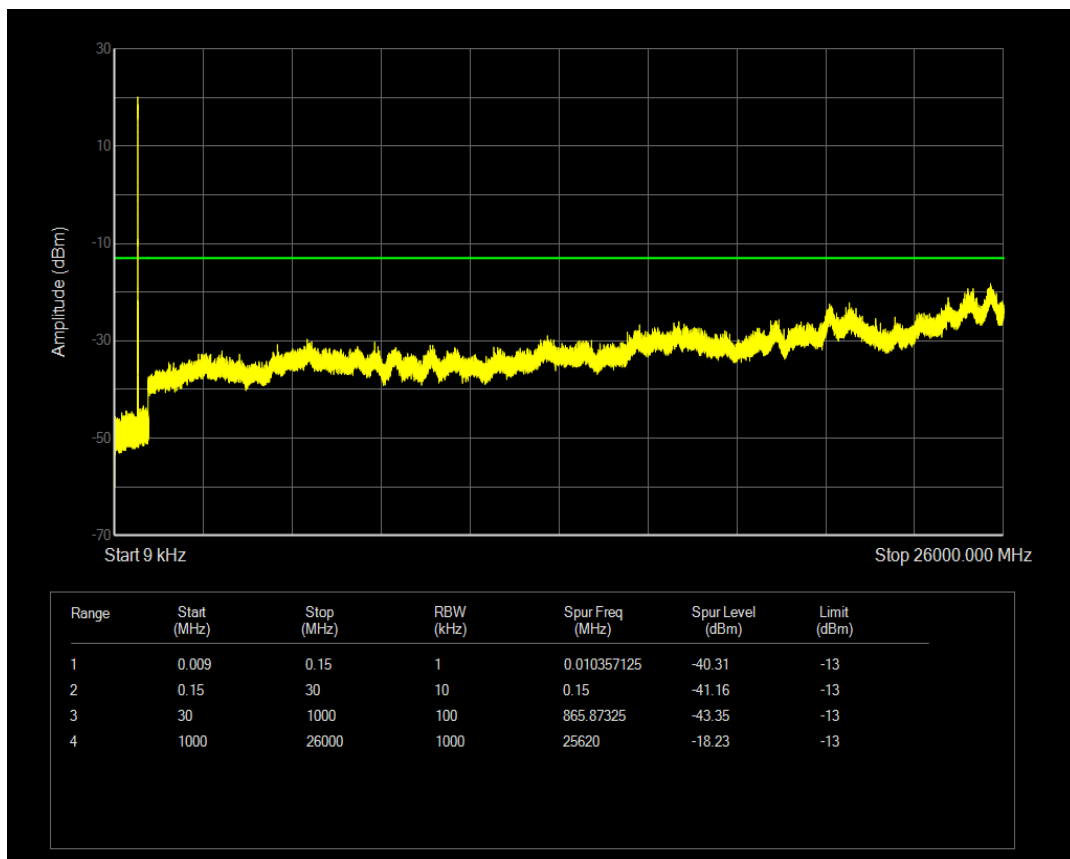
Appendix 6. Out-of-band emissions

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band12	1.4	23017	6	#0	QPSK	25615.63	-17.75	-13	PASS
Band12	1.4	23017	6	#0	16QAM	25620.00	-18.23	-13	PASS
Band12	1.4	23095	6	#0	QPSK	25567.50	-17.74	-13	PASS
Band12	1.4	23095	6	#0	16QAM	25620.63	-17.94	-13	PASS
Band12	1.4	23173	6	#0	QPSK	25568.13	-17.43	-13	PASS
Band12	1.4	23173	6	#0	16QAM	25687.50	-18.78	-13	PASS
Band12	3	23025	15	#0	QPSK	25634.38	-17.97	-13	PASS
Band12	3	23025	15	#0	16QAM	25632.50	-18.48	-13	PASS
Band12	3	23095	15	#0	QPSK	25638.13	-17.57	-13	PASS
Band12	3	23095	15	#0	16QAM	25637.50	-17.88	-13	PASS
Band12	3	23165	15	#0	QPSK	25630.63	-18.15	-13	PASS
Band12	3	23165	15	#0	16QAM	25696.25	-17.75	-13	PASS
Band12	5	23035	25	#0	QPSK	25690.63	-18.76	-13	PASS
Band12	5	23035	25	#0	16QAM	25670.63	-18.17	-13	PASS
Band12	5	23095	25	#0	QPSK	25600.63	-18.38	-13	PASS
Band12	5	23095	25	#0	16QAM	25663.75	-18.52	-13	PASS
Band12	5	23155	25	#0	QPSK	25613.75	-17.23	-13	PASS
Band12	5	23155	25	#0	16QAM	25570.00	-18.27	-13	PASS
Band12	10	23060	50	#0	QPSK	25603.75	-18.71	-13	PASS
Band12	10	23060	50	#0	16QAM	25585.63	-18.65	-13	PASS
Band12	10	23095	50	#0	QPSK	25642.50	-17.90	-13	PASS
Band12	10	23095	50	#0	16QAM	25683.13	-17.76	-13	PASS
Band12	10	23130	50	#0	QPSK	25629.38	-18.36	-13	PASS
Band12	10	23130	50	#0	16QAM	25635.00	-18.05	-13	PASS

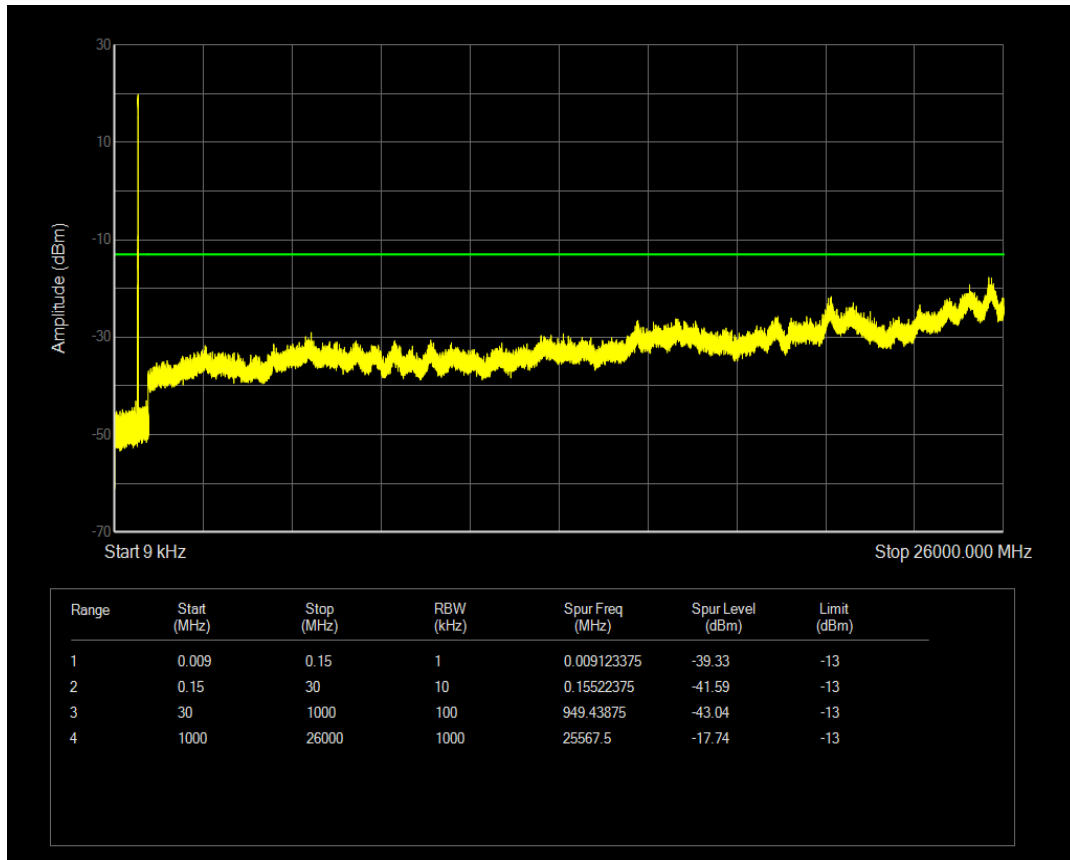
Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0



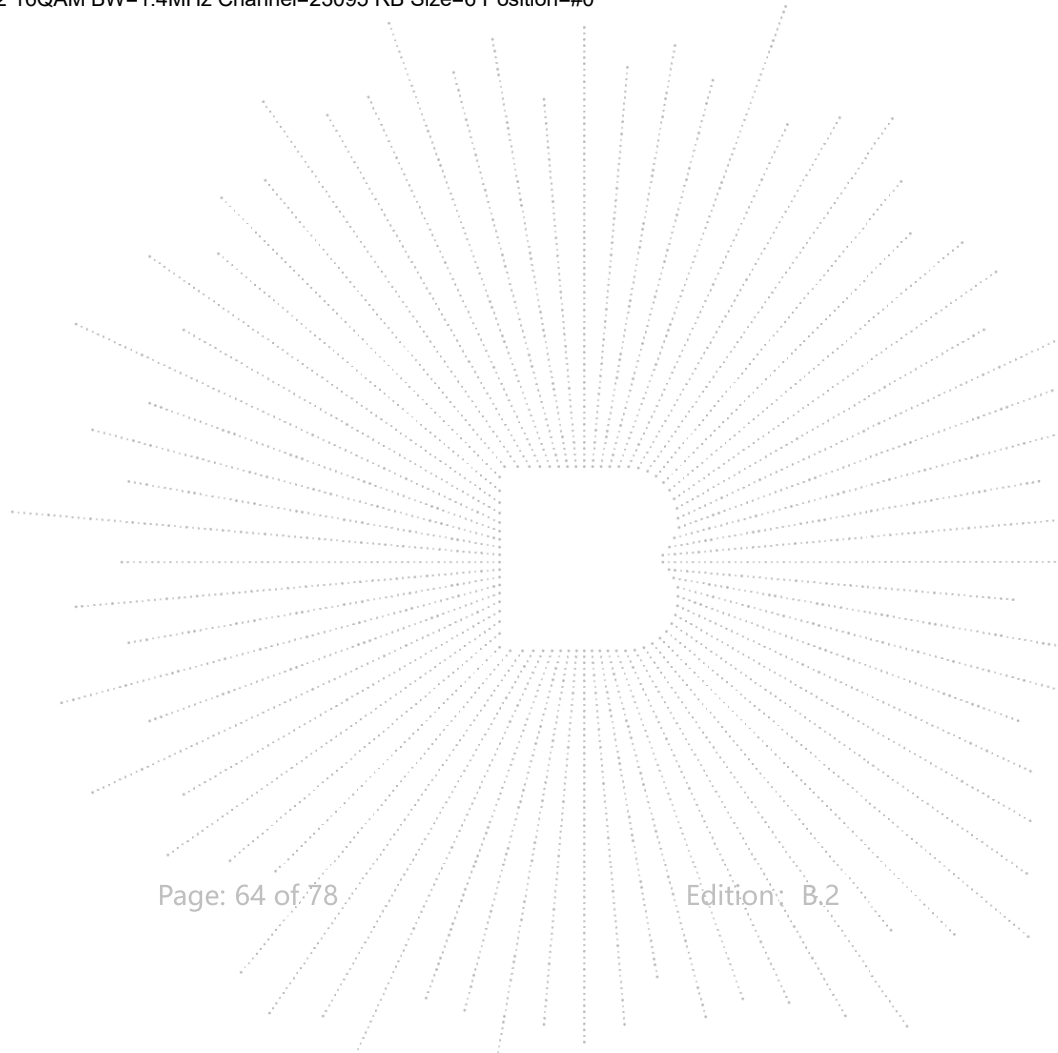
Band12 16QAM BW=1.4MHz Channel=23017 RB Size=6 Position=#0

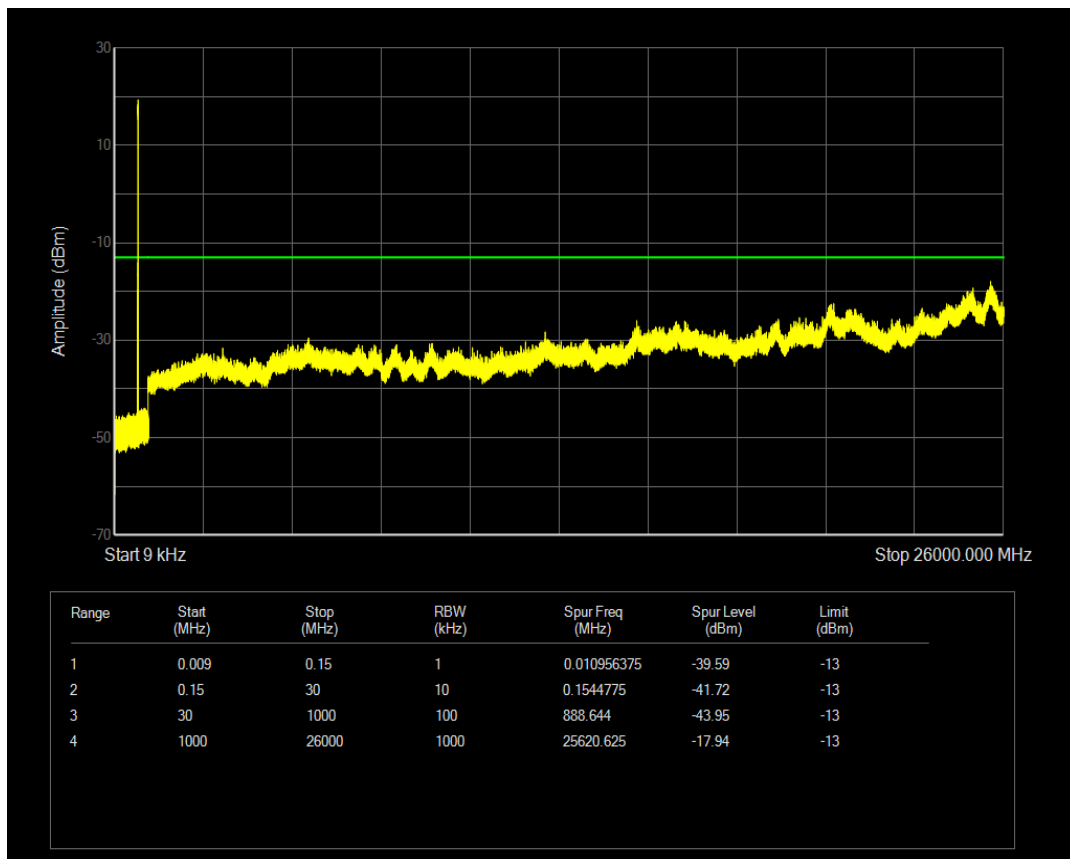


Band12 QPSK BW=1.4MHz Channel=23095 RB Size=6 Position=#0

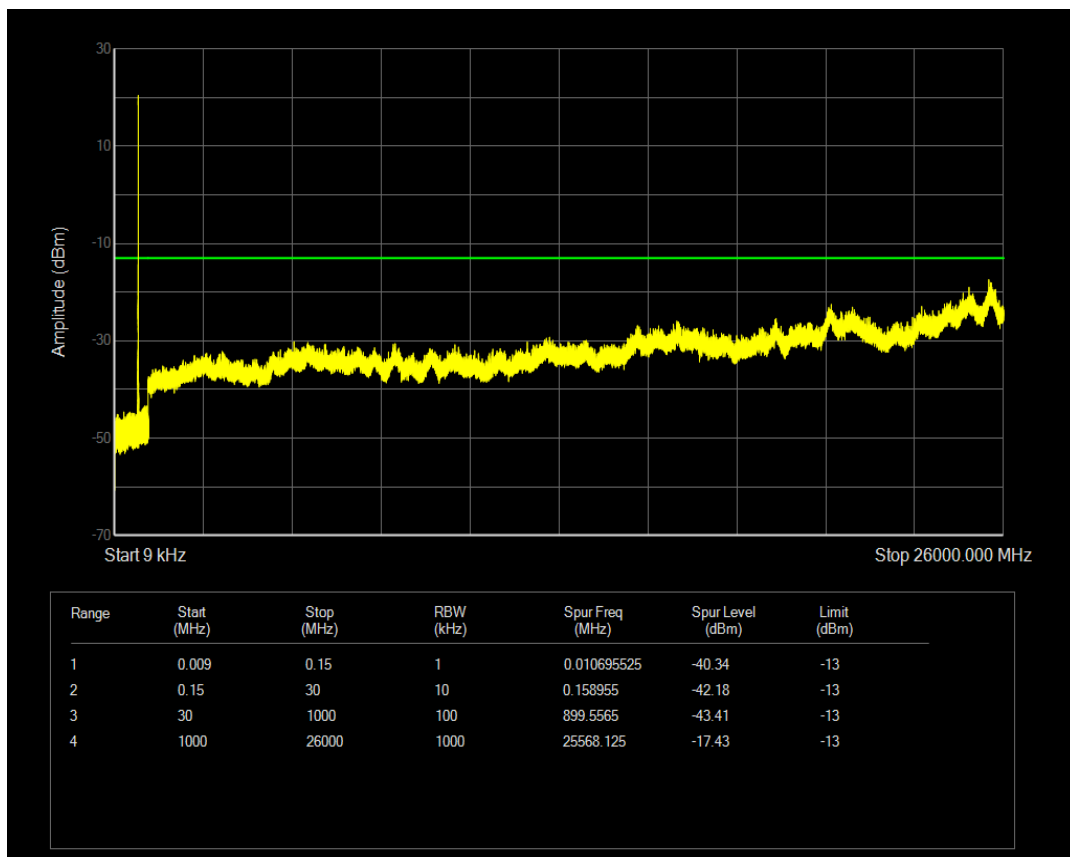


Band12 16QAM BW=1.4MHz Channel=23095 RB Size=6 Position=#0

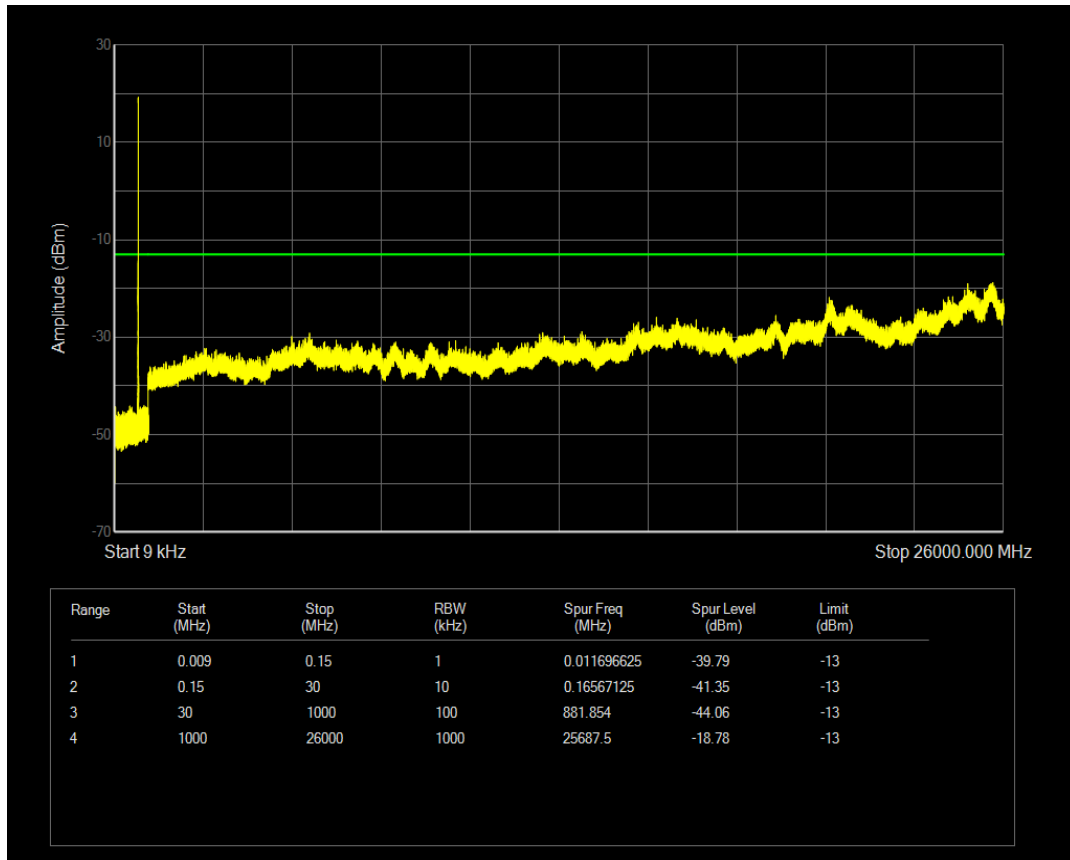




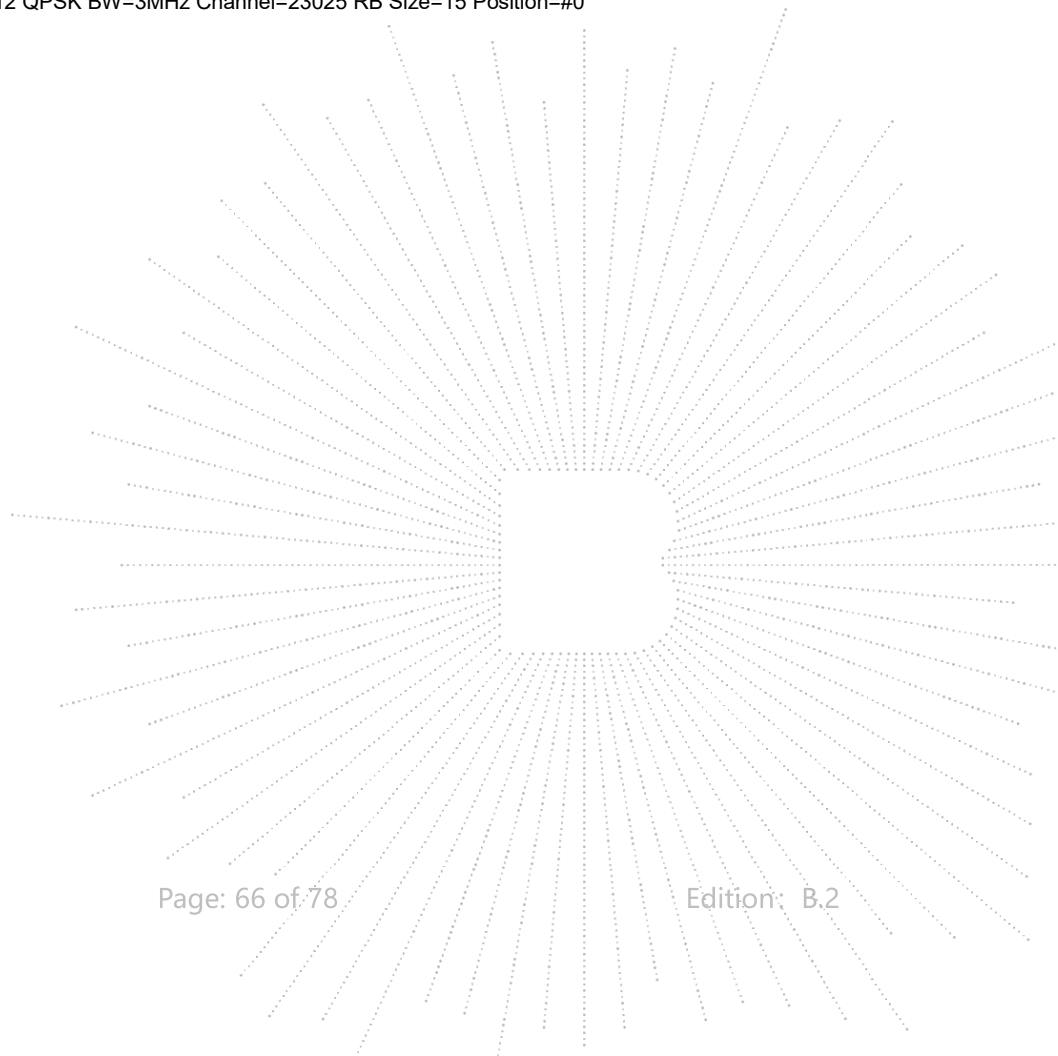
Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0

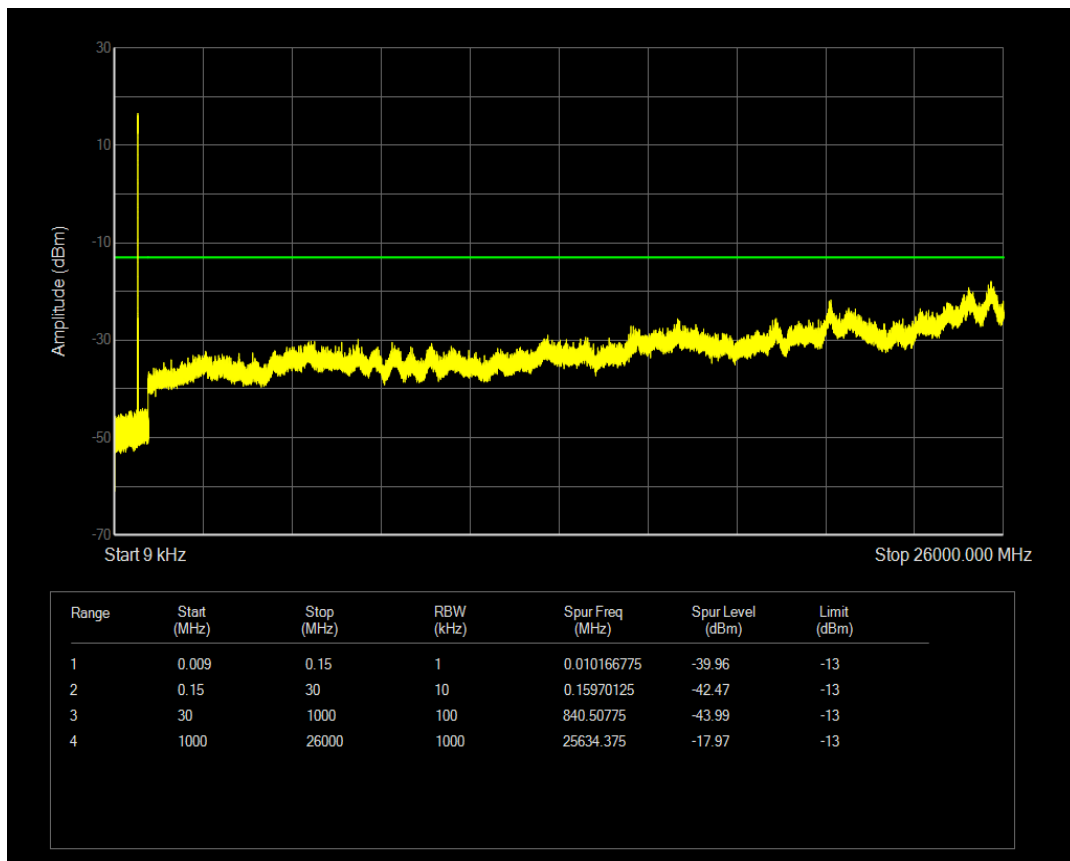


Band12 16QAM BW=1.4MHz Channel=23173 RB Size=6 Position=#0

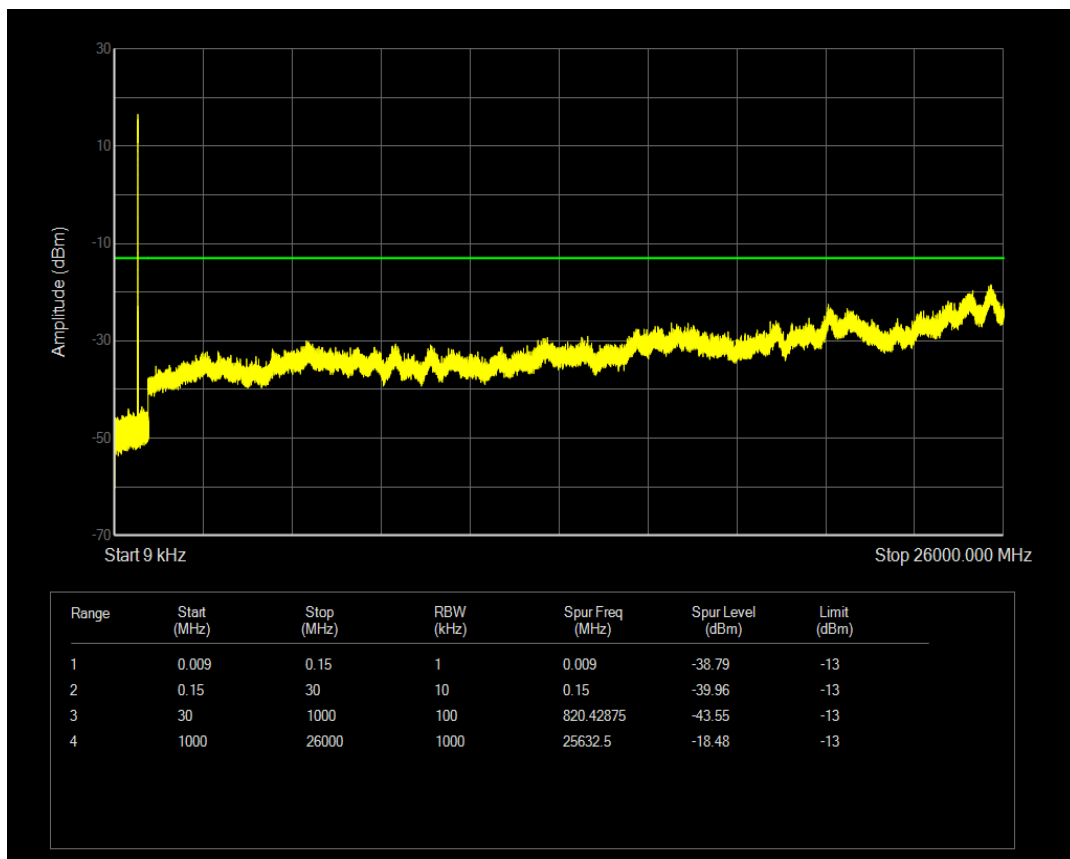


Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0

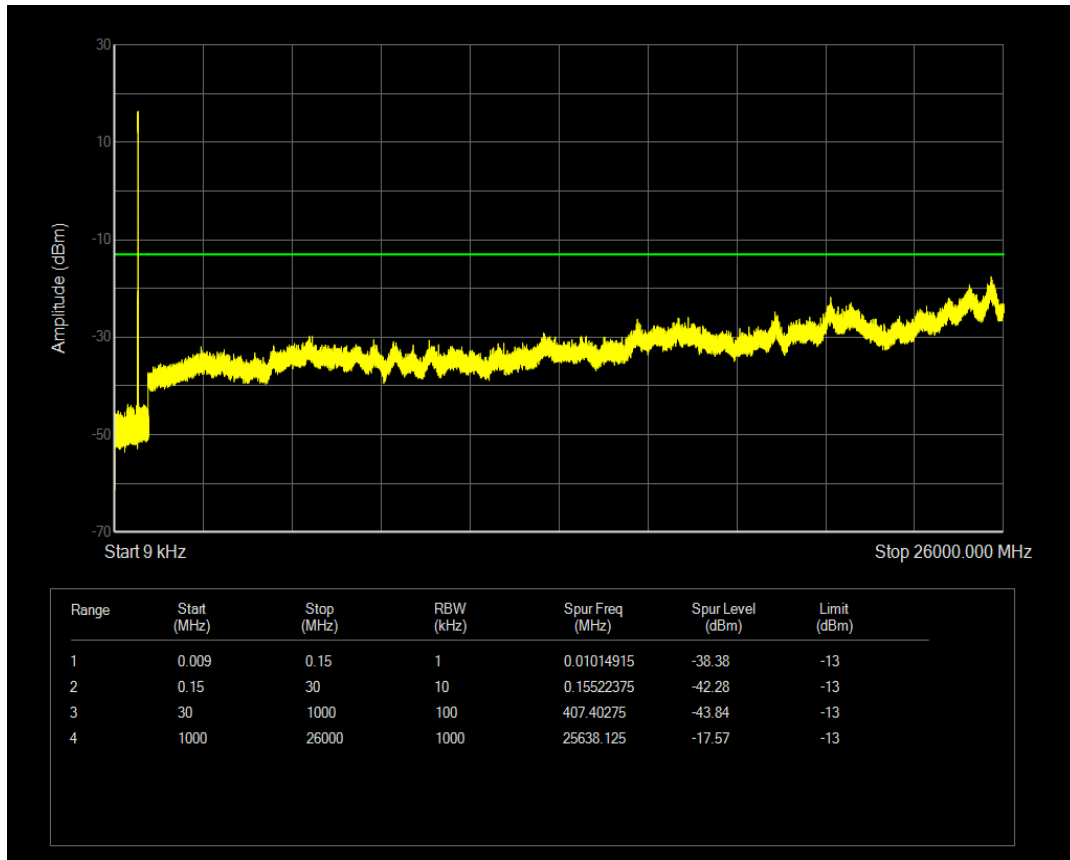




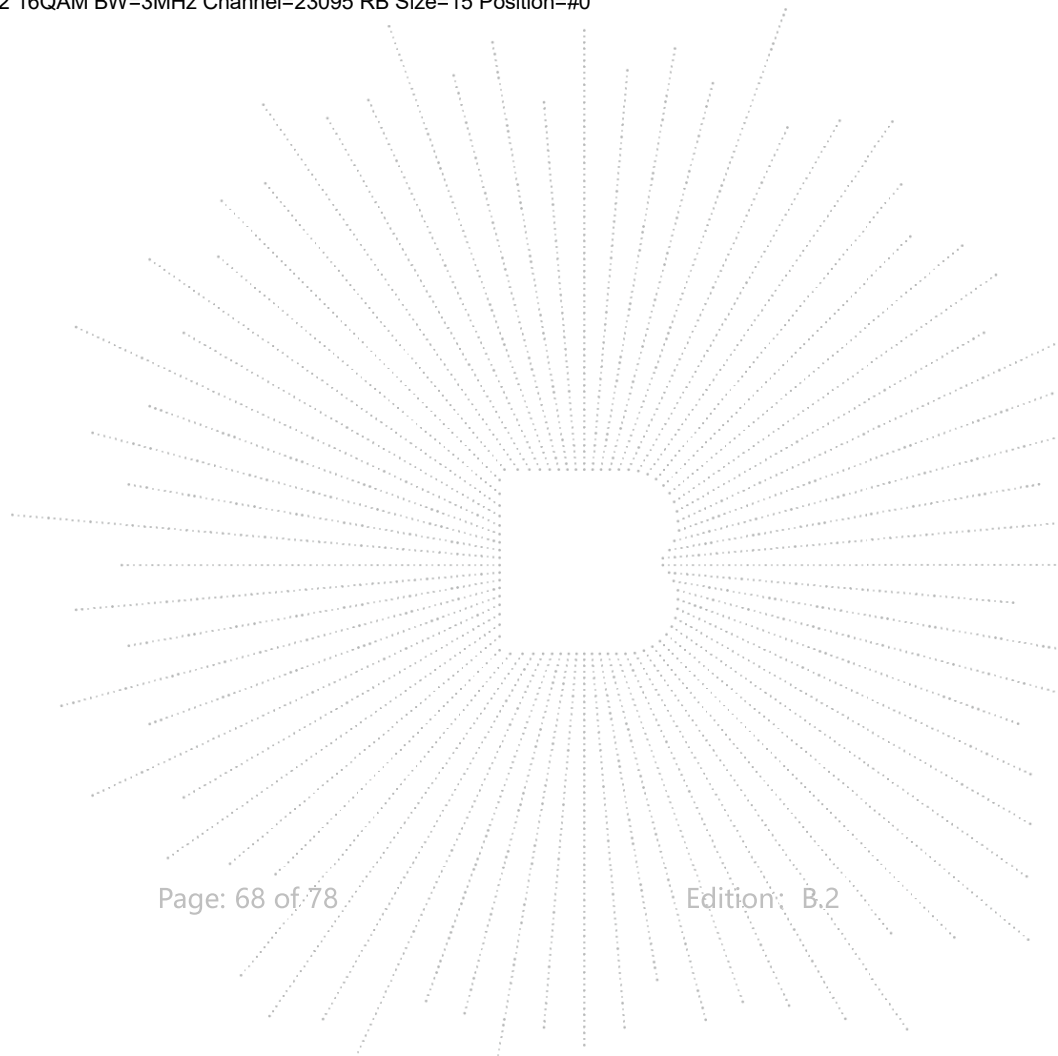
Band12 16QAM BW=3MHz Channel=23025 RB Size=15 Position=#0

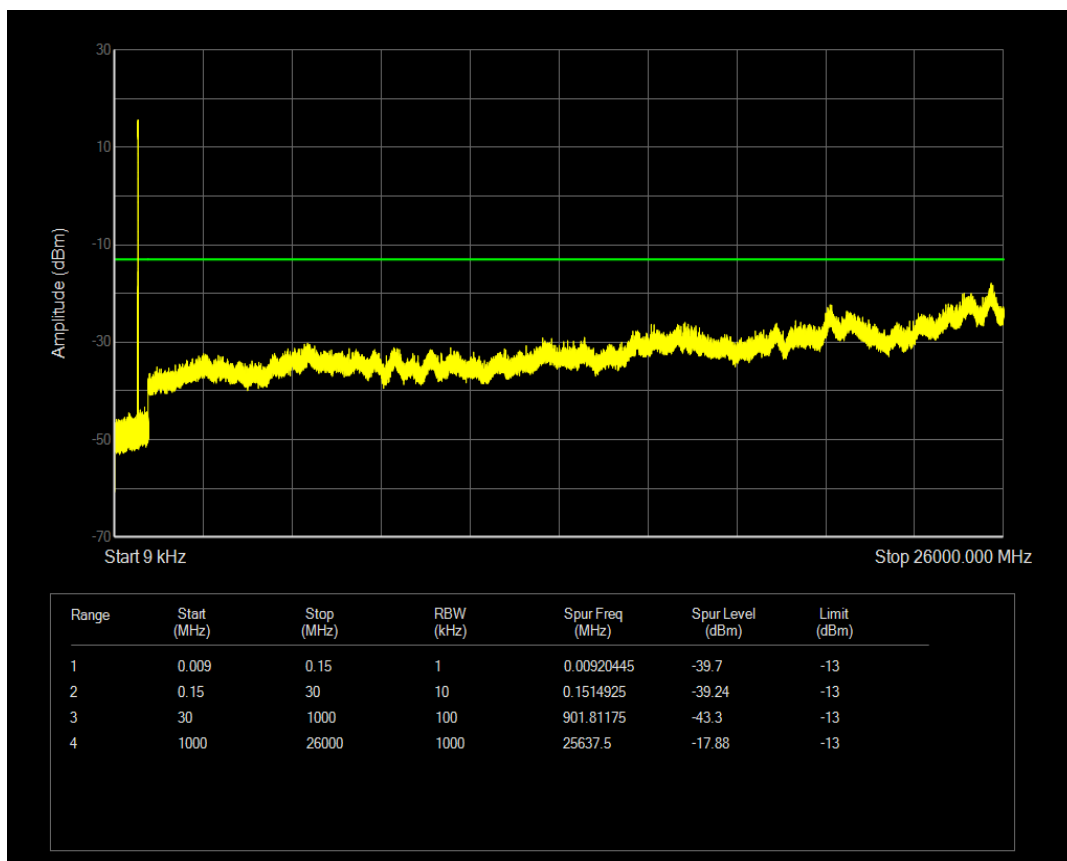


Band12 QPSK BW=3MHz Channel=23095 RB Size=15 Position=#0

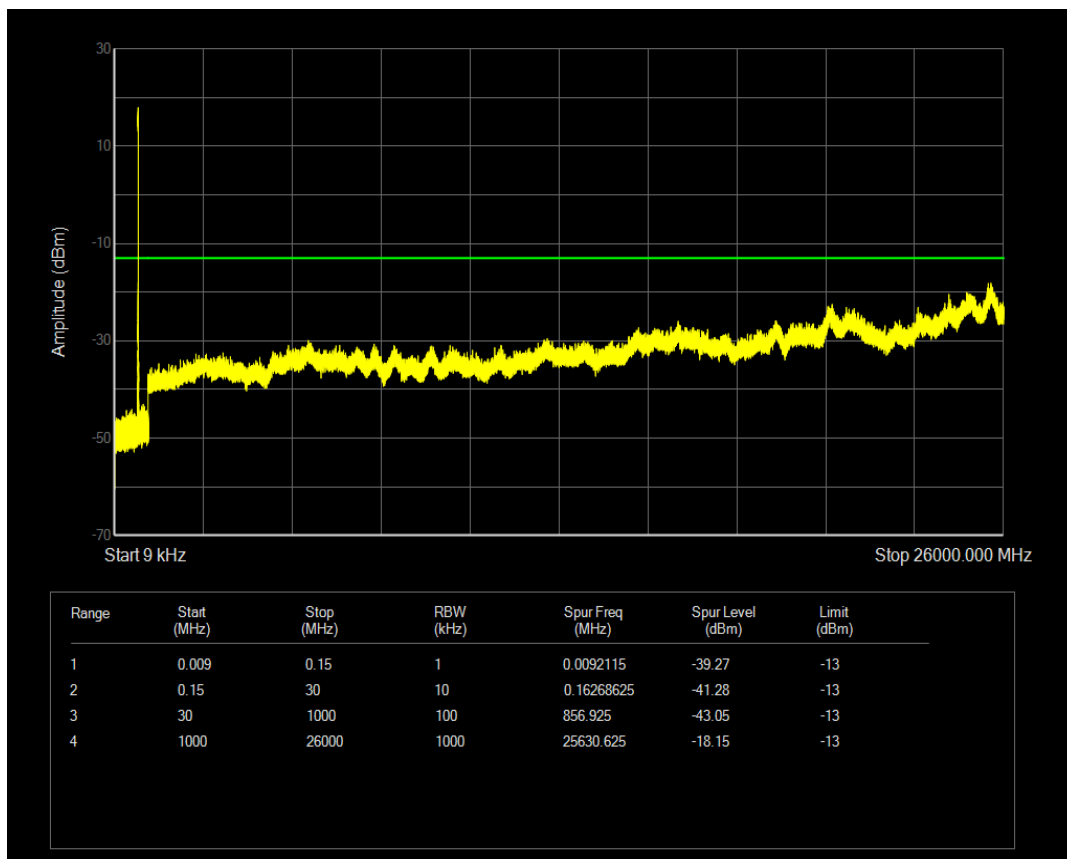


Band12 16QAM BW=3MHz Channel=23095 RB Size= 15 Position=#0



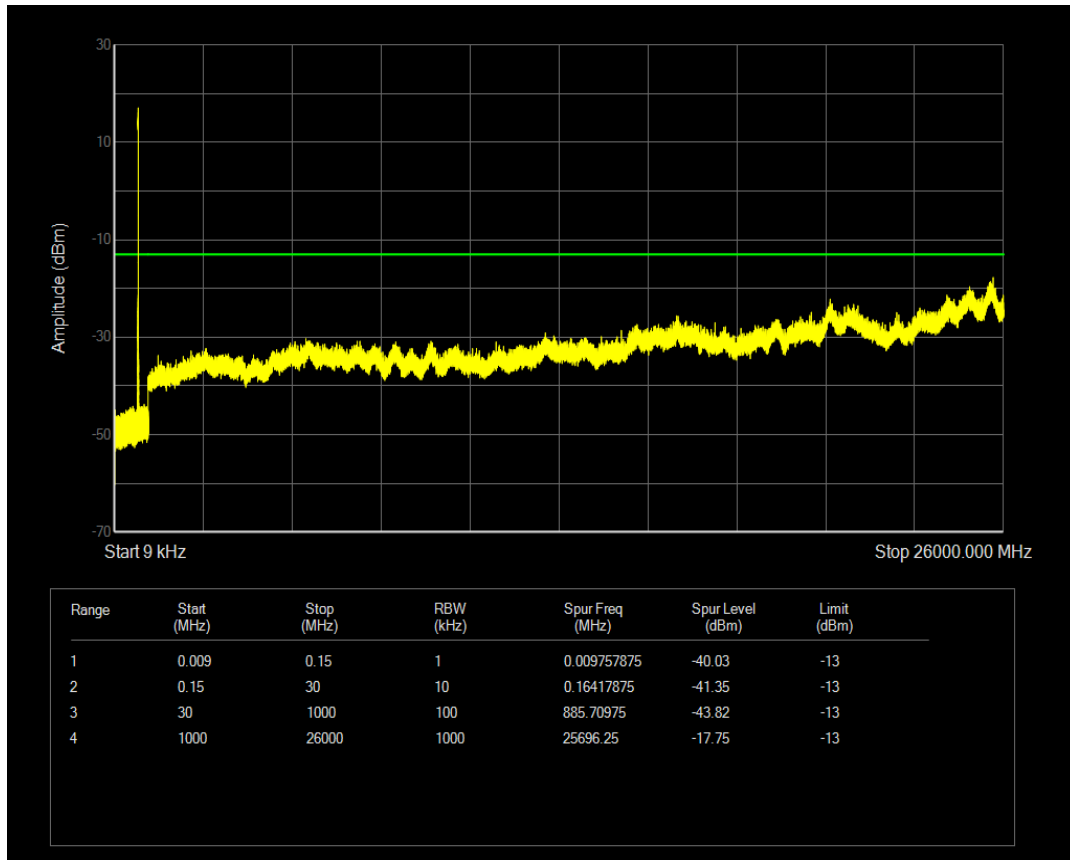


Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0

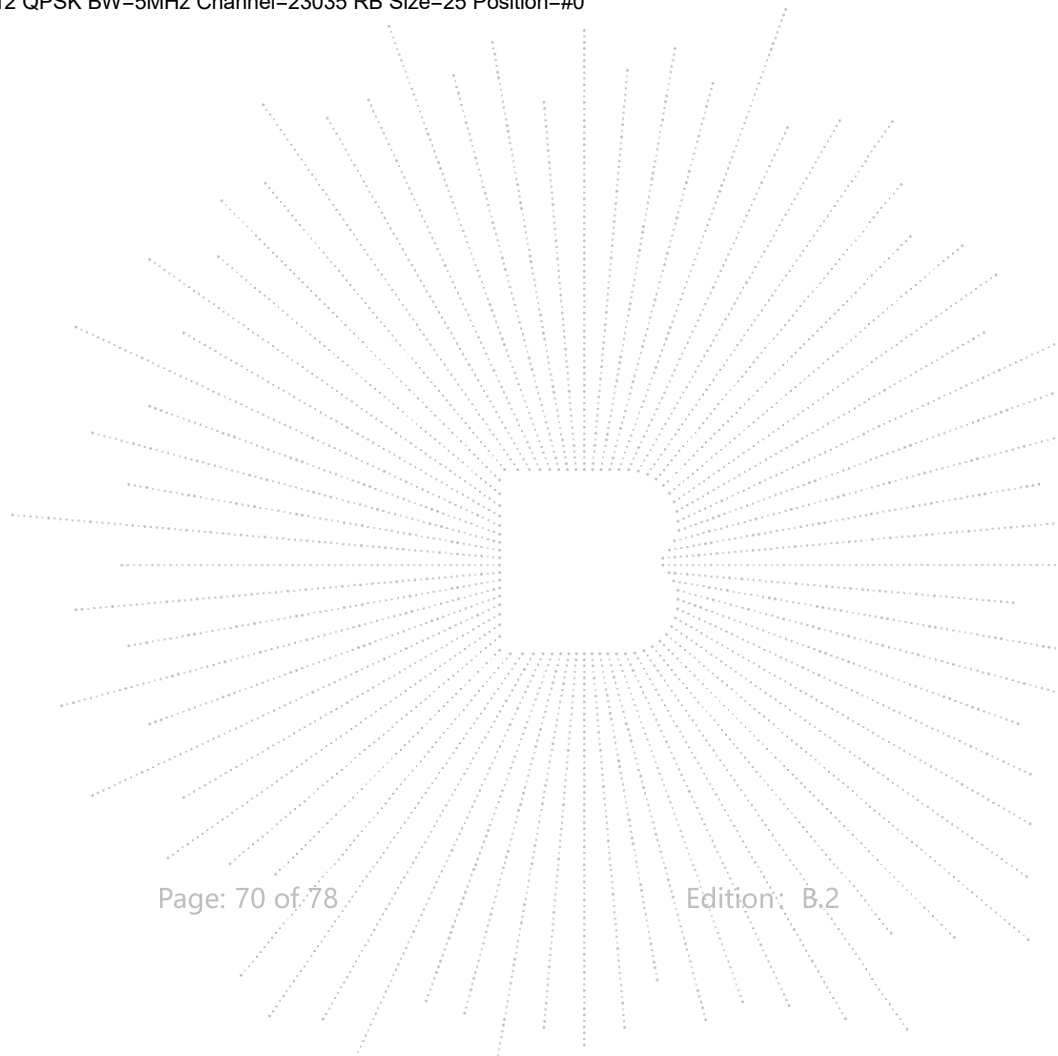


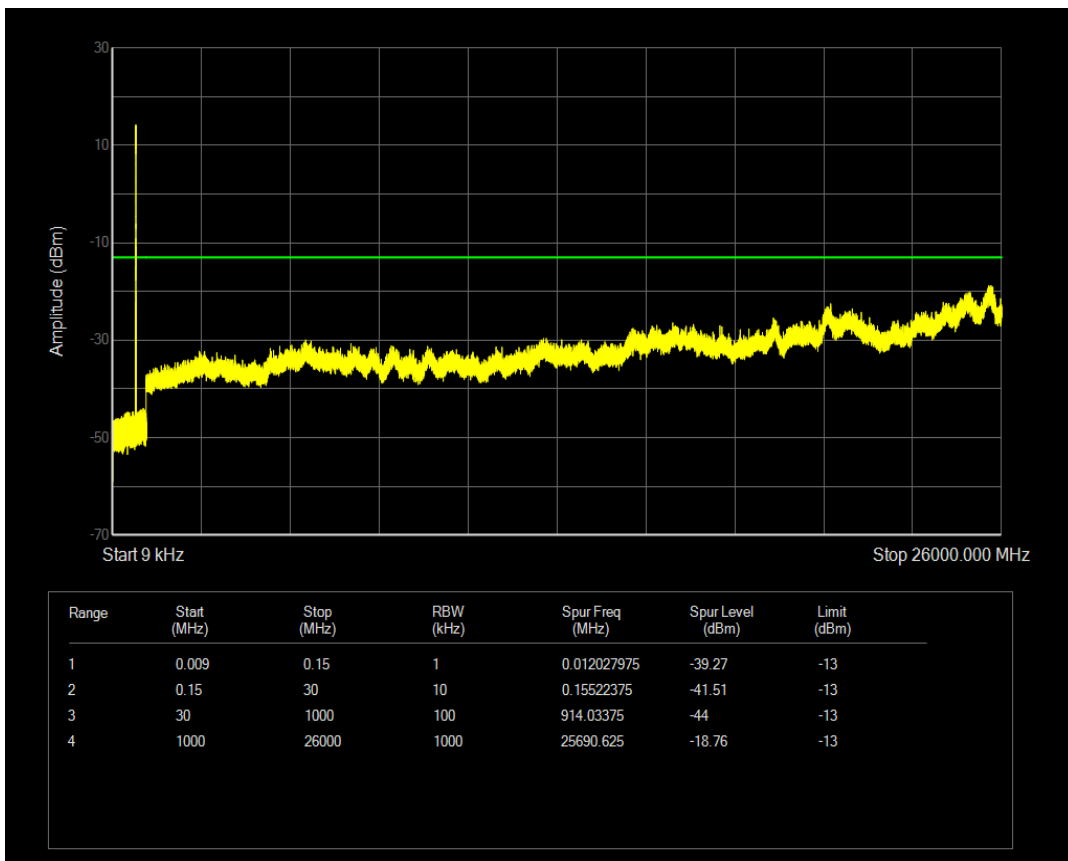


Band12 16QAM BW=3MHz Channel=23165 RB Size=15 Position=#0

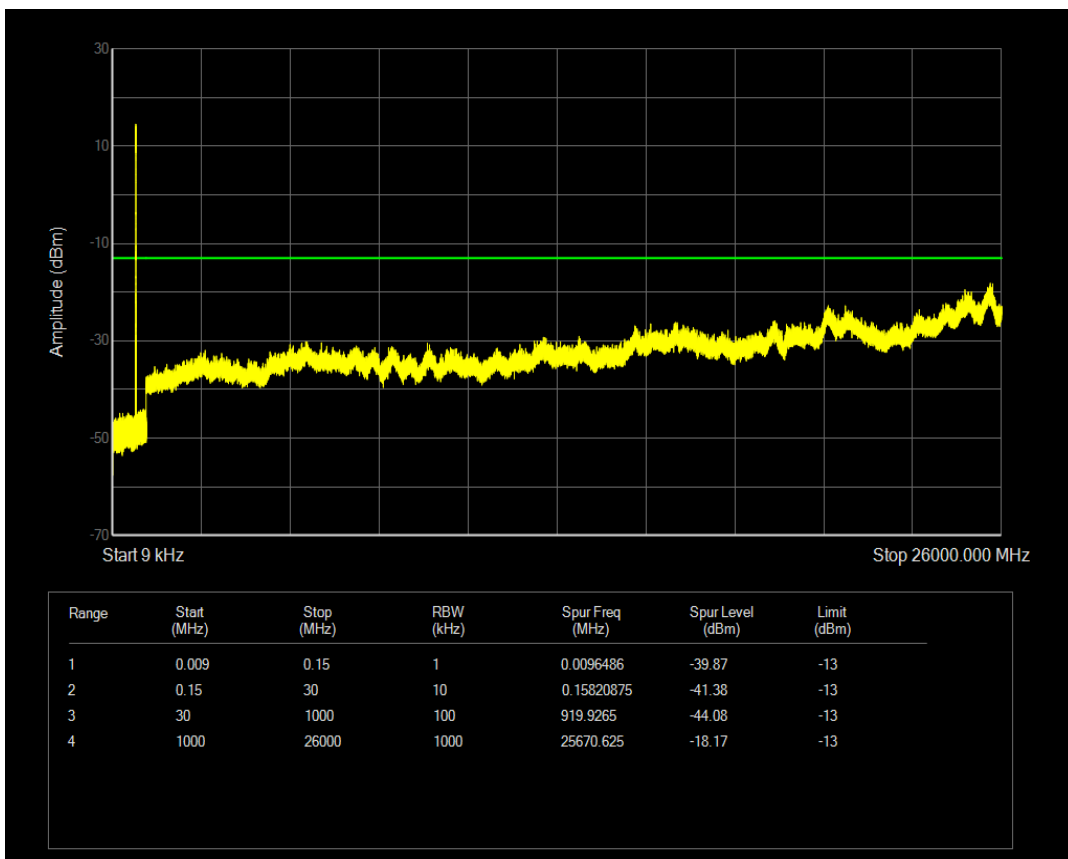


Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0



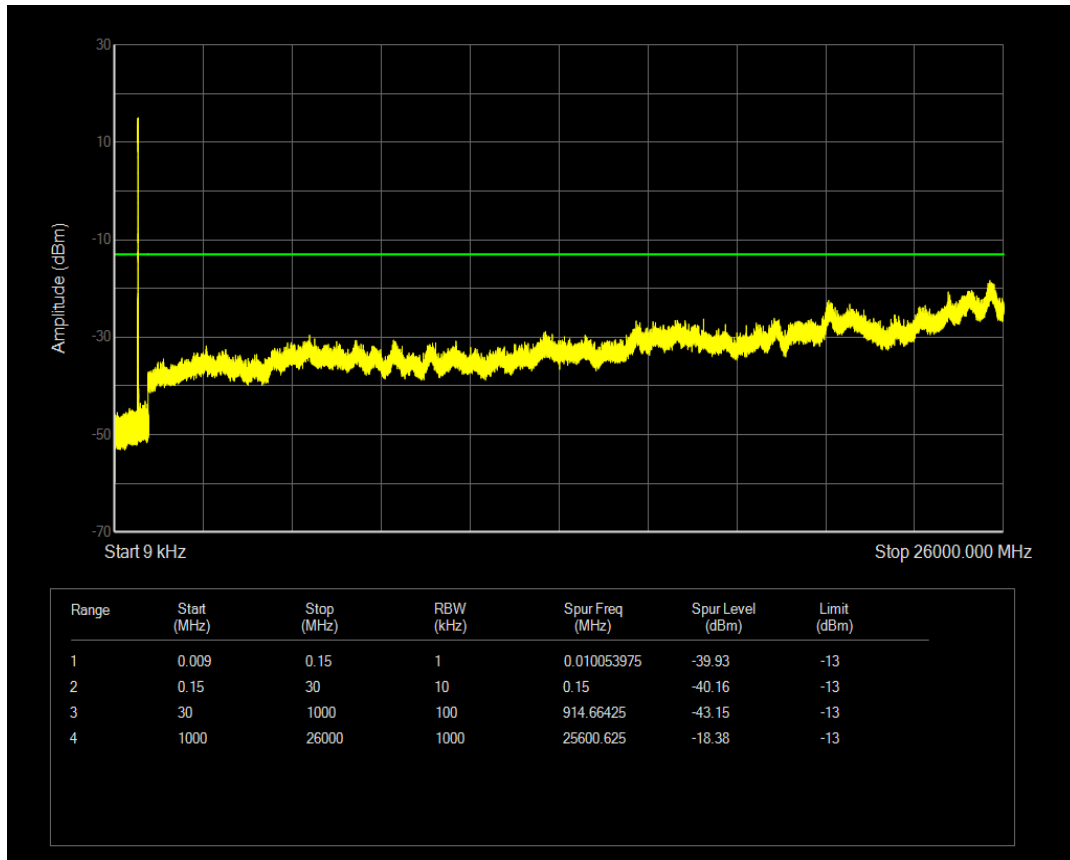


Band12 16QAM BW=5MHz Channel=23035 RB Size=25 Position=#0

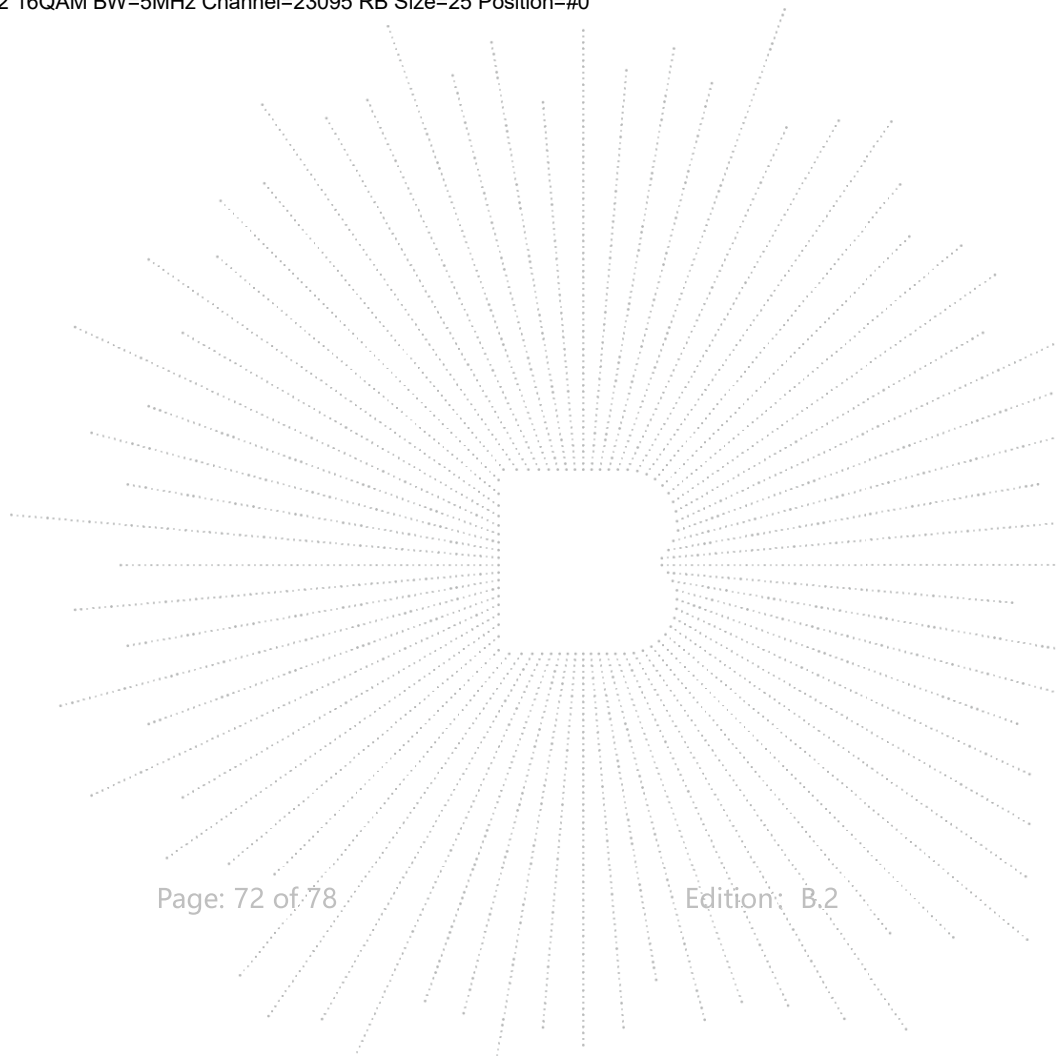


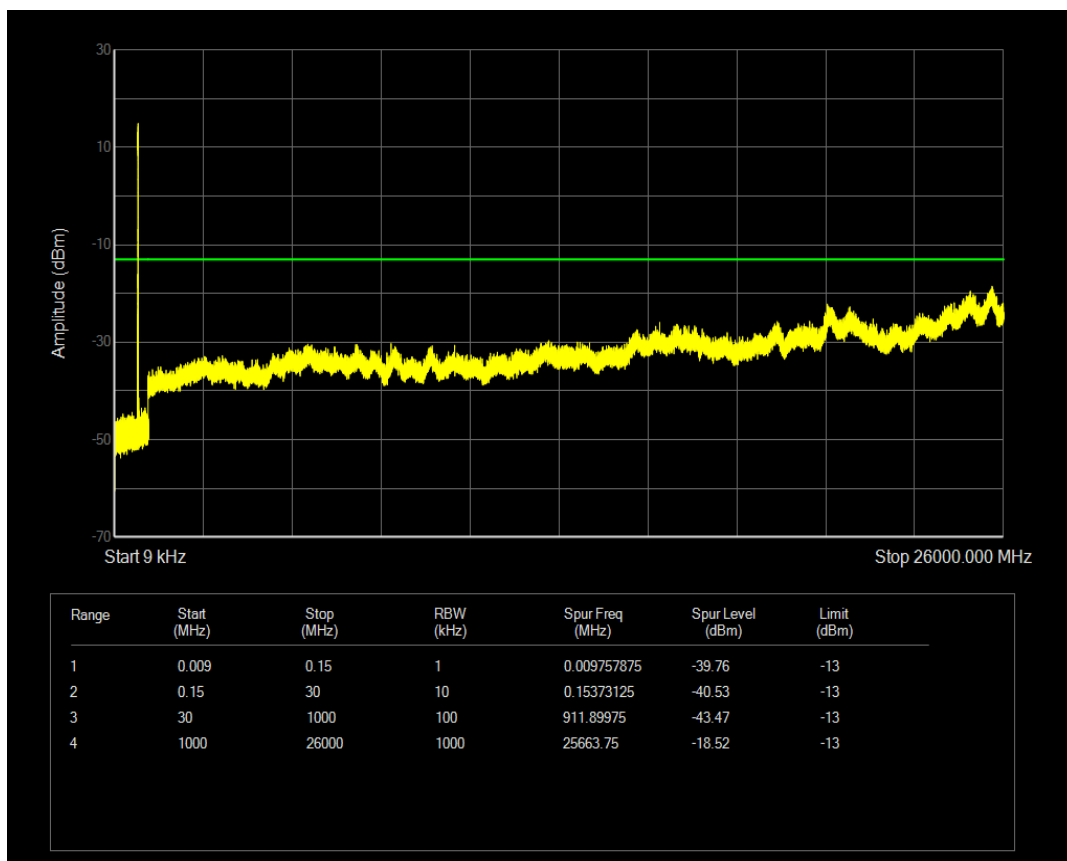


Band12 QPSK BW=5MHz Channel=23095 RB Size=25 Position=#0

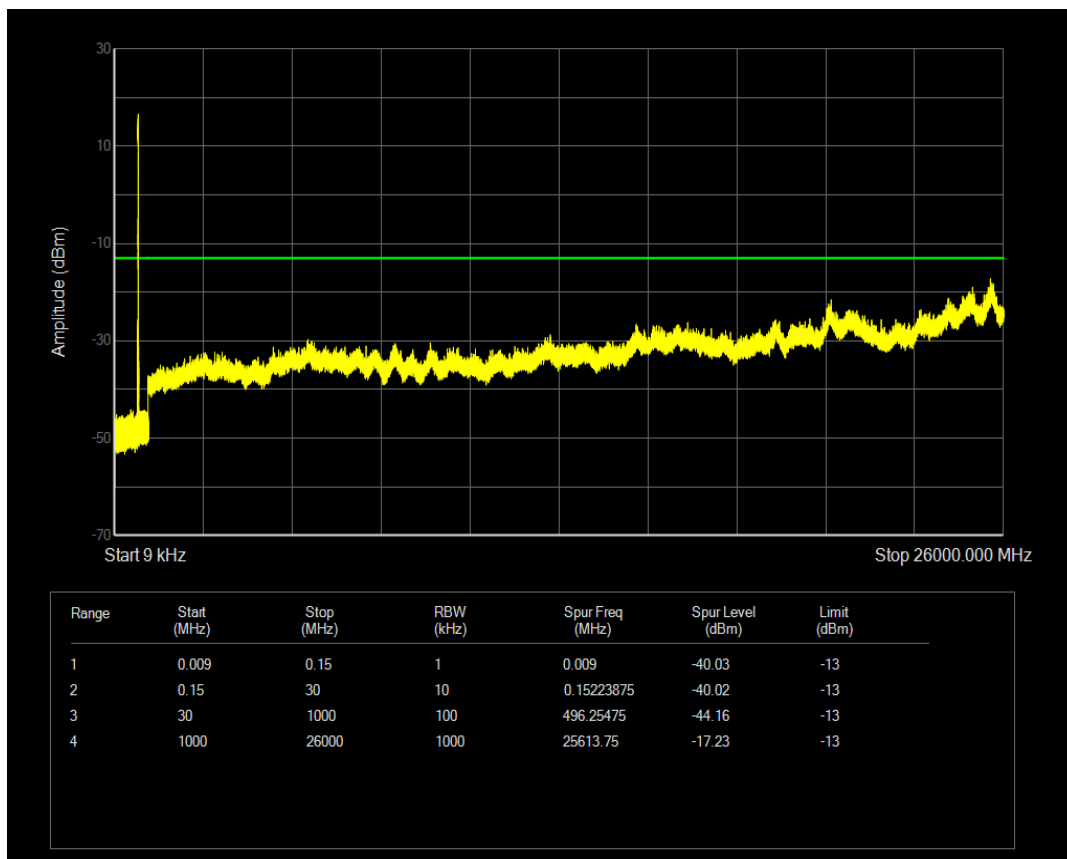


Band12 16QAM BW=5MHz Channel=23095 RB Size=25 Position=#0

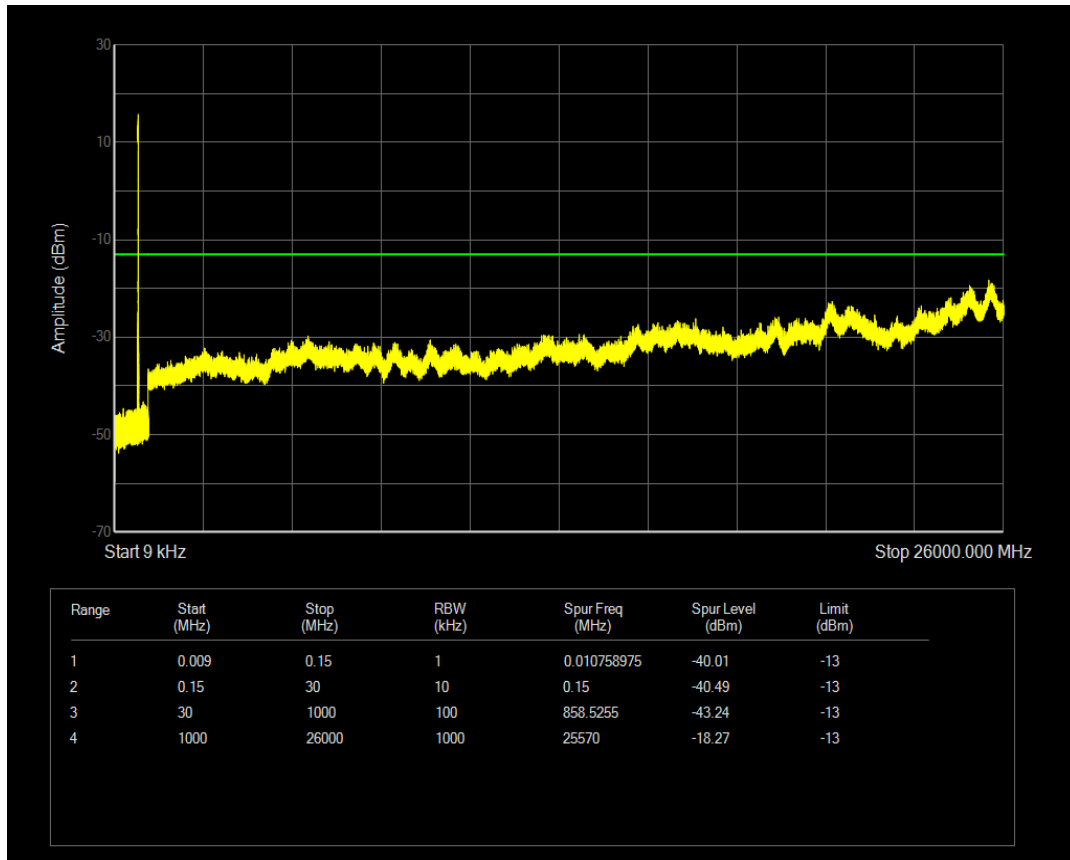




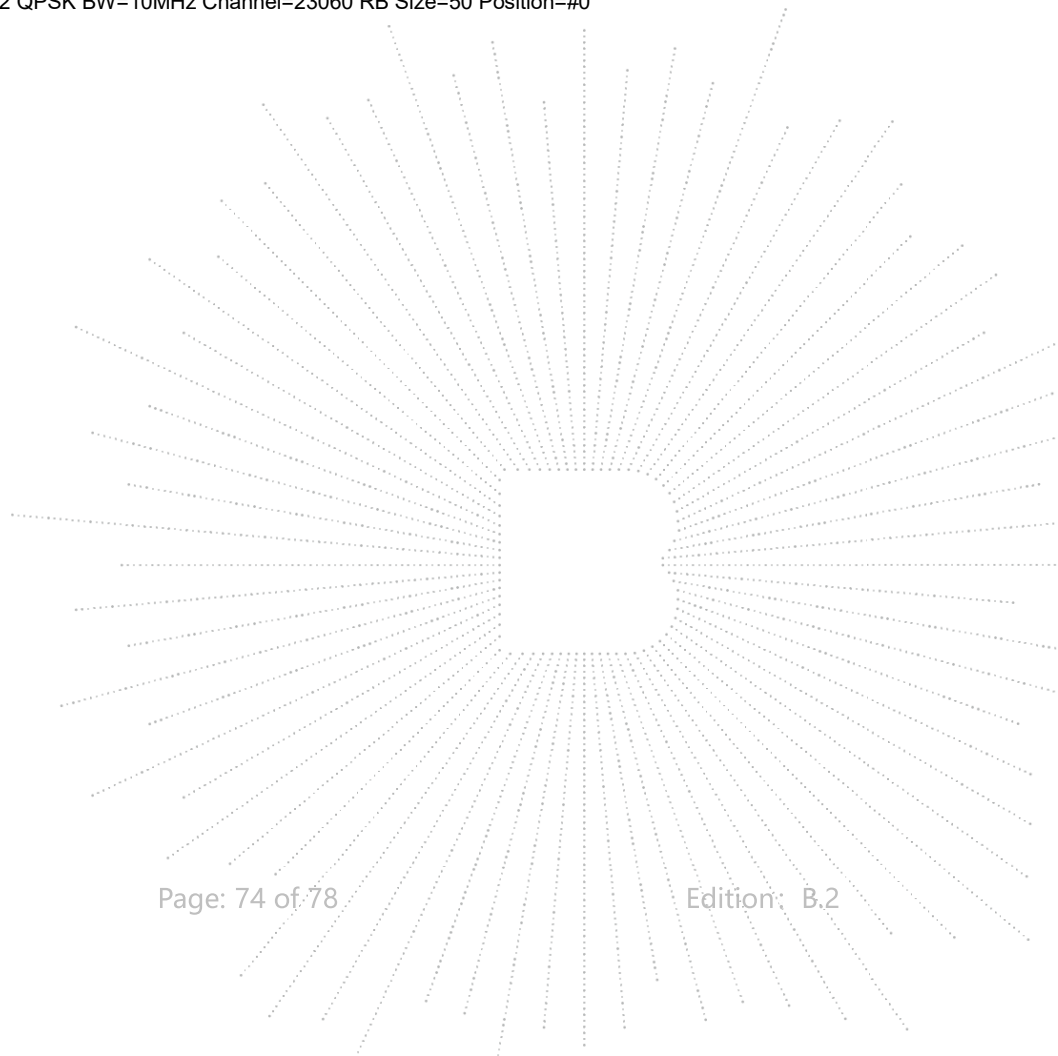
Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0

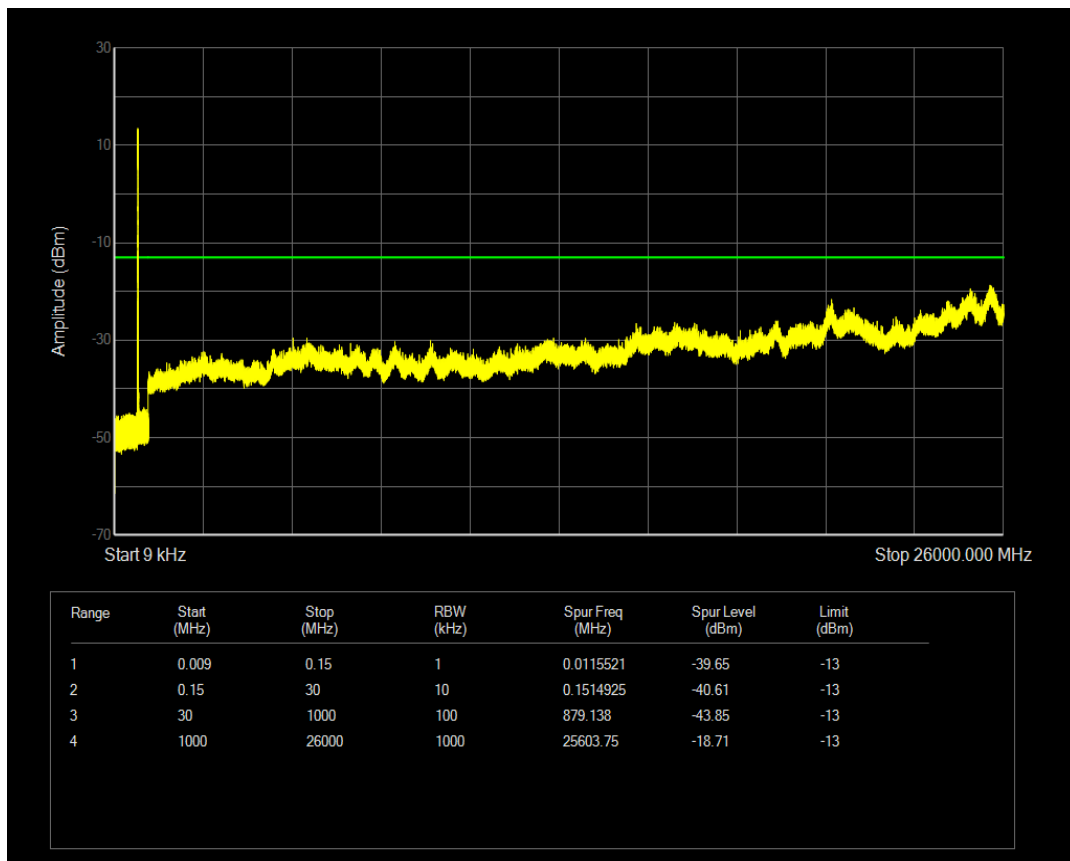


Band12 16QAM BW=5MHz Channel=23155 RB Size=25 Position=#0

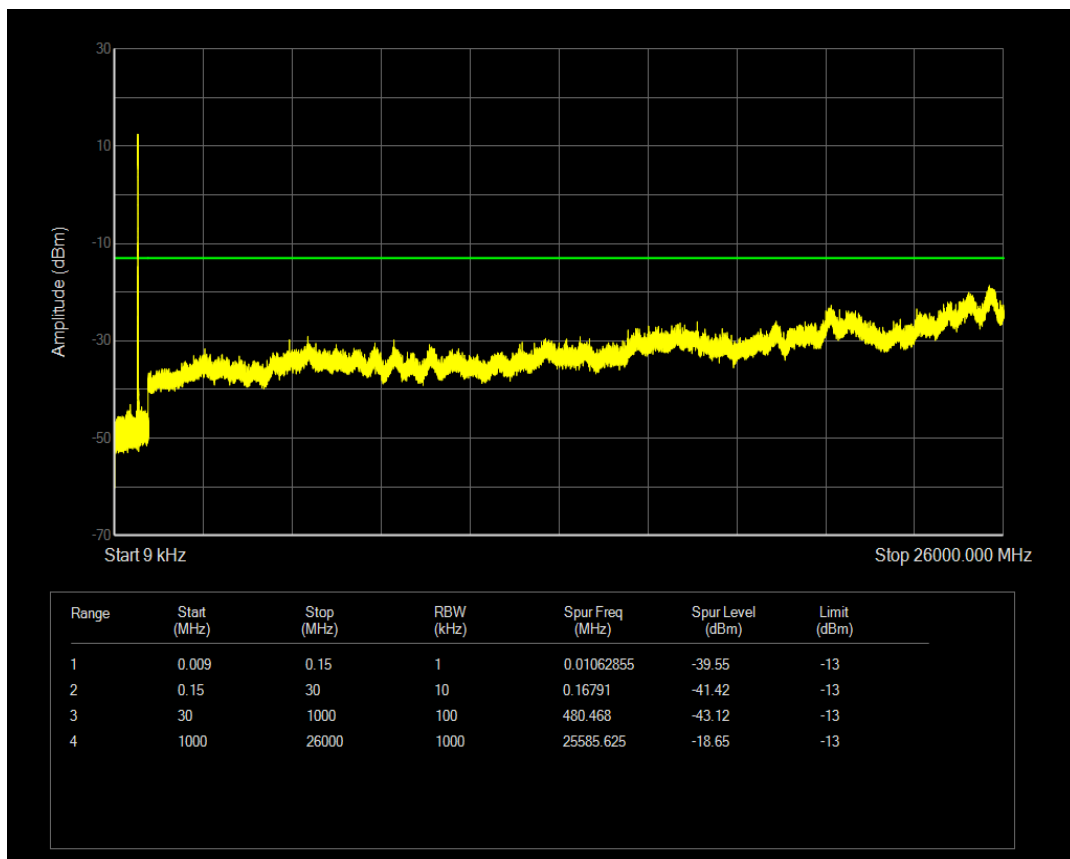


Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0

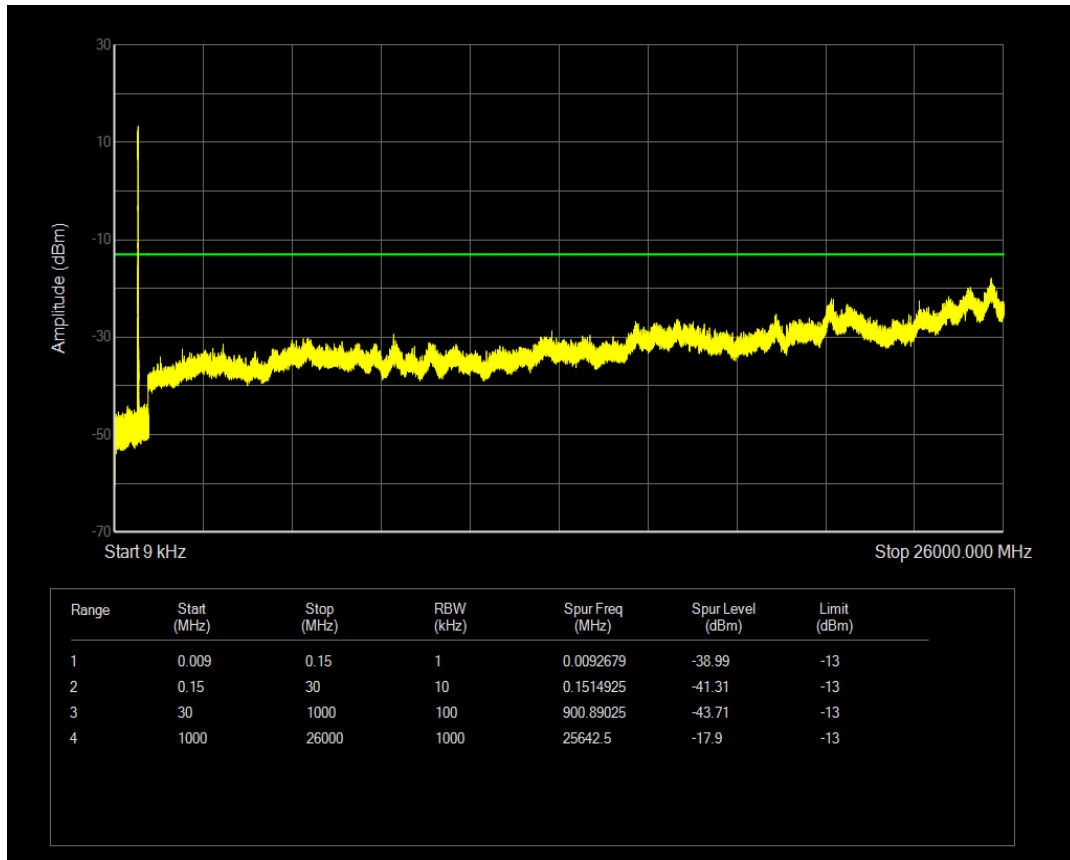




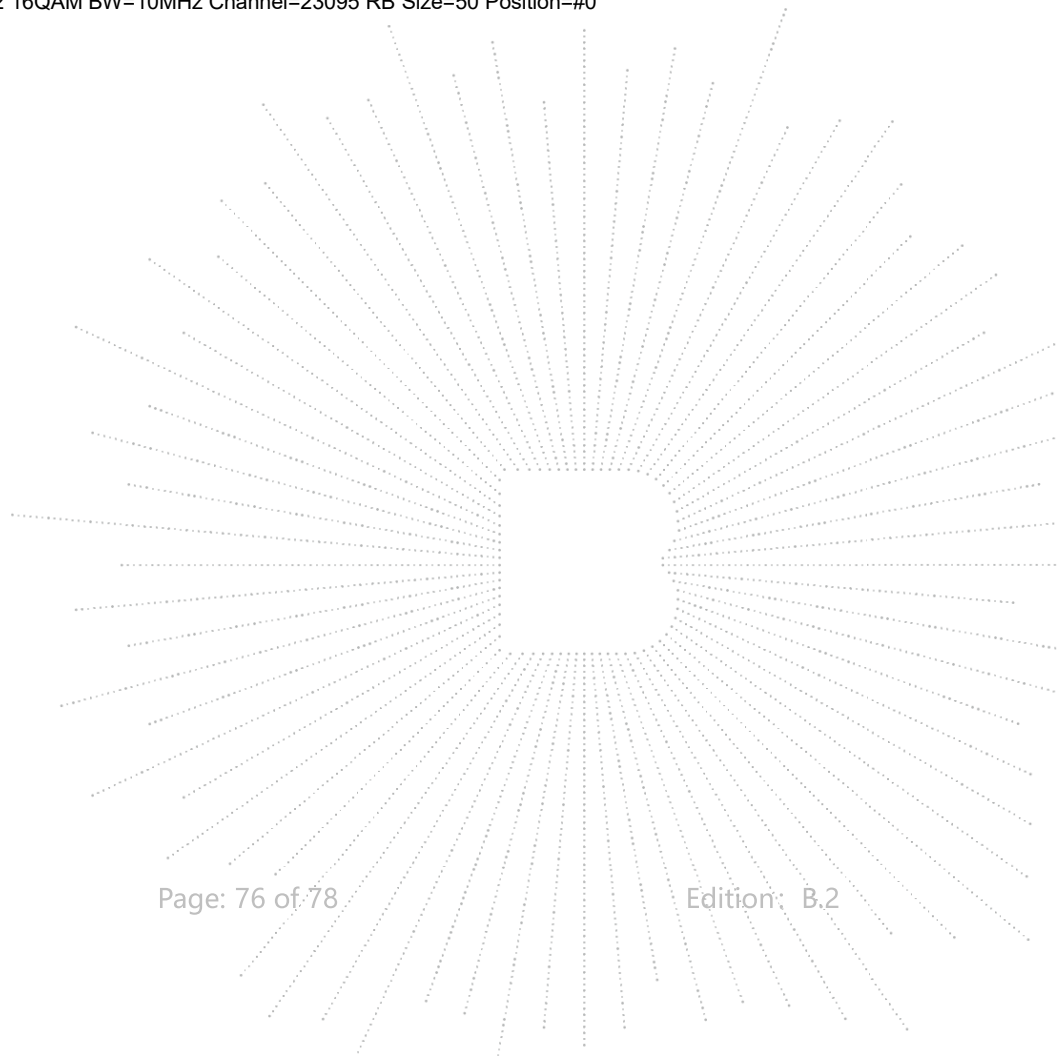
Band12 16QAM BW=10MHz Channel=23060 RB Size=50 Position=#0

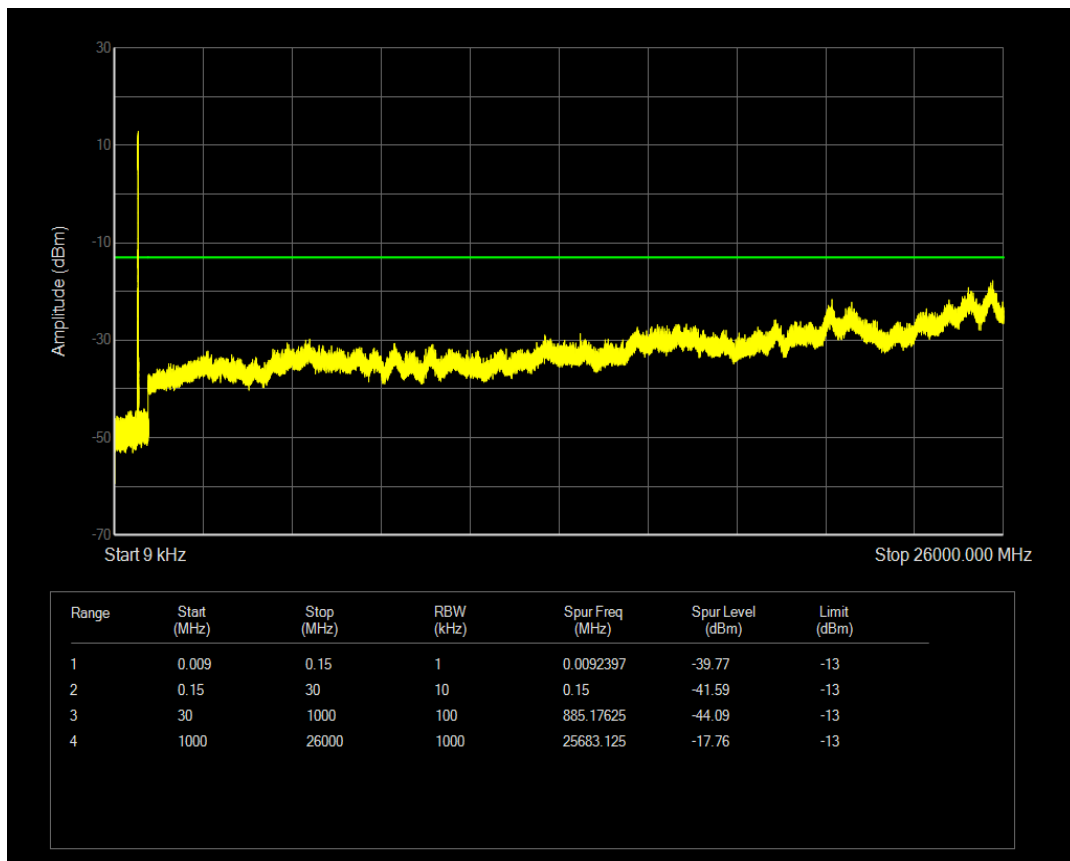


Band12 QPSK BW=10MHz Channel=23095 RB Size=50 Position=#0

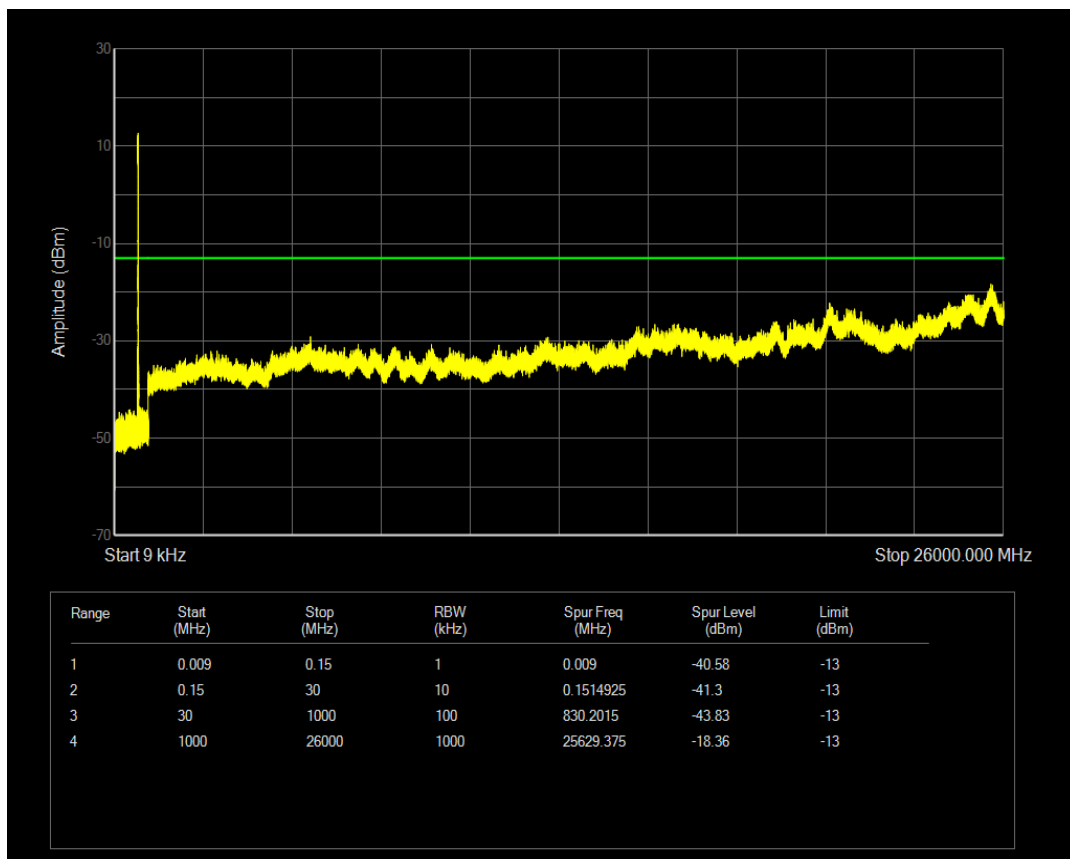


Band12 16QAM BW=10MHz Channel=23095 RB Size=50 Position=#0



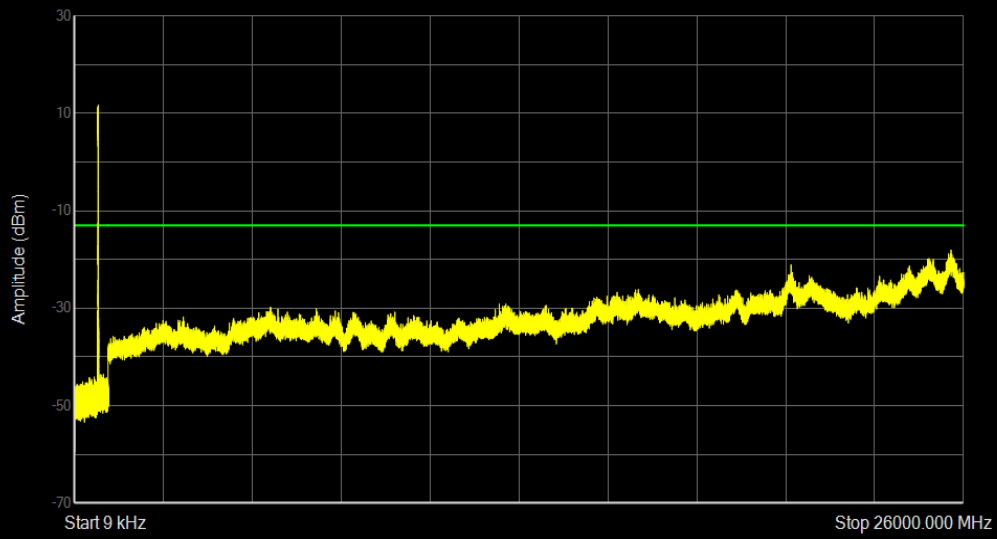


Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0





Band12 16QAM BW=10MHz Channel=23130 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0110586	-38.89	-13
2	0.15	30	10	0.1574625	-41.1	-13
3	30	1000	100	867.57075	-43.59	-13
4	1000	26000	1000	25635	-18.05	-13

