

TEST REPORT

Report No.: BCTC2205535730-2E

Applicant: UMOVAL IoT Technology Co., Ltd

Product Name: 3G/4G LTE Solar Security PTZ Cameras

Model/Type
reference: UM-Q6-4G

Tested Date: 2022-05-26 to 2022-06-30

Issued Date: 2022-06-30

Shenzhen BCTC Testing Co., Ltd.

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Appendix 1. Conducted output power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBi)	ERP (dBm)	Verdict
Band12	1.4	23017	1	#0	QPSK	22.41	5	25.26	PASS
Band12	1.4	23017	1	#Mid	QPSK	22.96	5	25.81	PASS
Band12	1.4	23017	1	#Max	QPSK	22.93	5	25.78	PASS
Band12	1.4	23017	3	#0	QPSK	22.58	5	25.43	PASS
Band12	1.4	23017	3	#Mid	QPSK	22.70	5	25.55	PASS
Band12	1.4	23017	3	#Max	QPSK	22.70	5	25.55	PASS
Band12	1.4	23017	6	#0	QPSK	21.63	5	24.48	PASS
Band12	1.4	23017	1	#0	QAM16	21.41	5	24.26	PASS
Band12	1.4	23017	1	#Mid	QAM16	21.53	5	24.38	PASS
Band12	1.4	23017	1	#Max	QAM16	21.52	5	24.37	PASS
Band12	1.4	23017	3	#0	QAM16	21.48	5	24.33	PASS
Band12	1.4	23017	3	#Mid	QAM16	21.59	5	24.44	PASS
Band12	1.4	23017	3	#Max	QAM16	21.56	5	24.41	PASS
Band12	1.4	23017	6	#0	QAM16	20.44	5	23.29	PASS
Band12	1.4	23095	1	#0	QPSK	22.39	5	25.24	PASS
Band12	1.4	23095	1	#Mid	QPSK	22.61	5	25.46	PASS
Band12	1.4	23095	1	#Max	QPSK	22.49	5	25.34	PASS
Band12	1.4	23095	3	#0	QPSK	22.63	5	25.48	PASS
Band12	1.4	23095	3	#Mid	QPSK	22.57	5	25.42	PASS
Band12	1.4	23095	3	#Max	QPSK	22.56	5	25.41	PASS
Band12	1.4	23095	6	#0	QPSK	21.66	5	24.51	PASS
Band12	1.4	23095	1	#0	QAM16	21.26	5	24.11	PASS
Band12	1.4	23095	1	#Mid	QAM16	21.37	5	24.22	PASS
Band12	1.4	23095	1	#Max	QAM16	21.32	5	24.17	PASS
Band12	1.4	23095	3	#0	QAM16	21.26	5	24.11	PASS
Band12	1.4	23095	3	#Mid	QAM16	21.23	5	24.08	PASS
Band12	1.4	23095	3	#Max	QAM16	21.23	5	24.08	PASS
Band12	1.4	23095	6	#0	QAM16	20.53	5	23.38	PASS
Band12	1.4	23173	1	#0	QPSK	22.45	5	25.30	PASS
Band12	1.4	23173	1	#Mid	QPSK	22.62	5	25.47	PASS
Band12	1.4	23173	1	#Max	QPSK	22.47	5	25.32	PASS
Band12	1.4	23173	3	#0	QPSK	22.56	5	25.41	PASS
Band12	1.4	23173	3	#Mid	QPSK	22.65	5	25.50	PASS
Band12	1.4	23173	3	#Max	QPSK	22.63	5	25.48	PASS
Band12	1.4	23173	6	#0	QPSK	21.54	5	24.39	PASS
Band12	1.4	23173	1	#0	QAM16	21.18	5	24.03	PASS
Band12	1.4	23173	1	#Mid	QAM16	21.72	5	24.57	PASS

Band12	1.4	23173	1	#Max	QAM16	21.43	5	24.28	PASS
Band12	1.4	23173	3	#0	QAM16	21.45	5	24.30	PASS
Band12	1.4	23173	3	#Mid	QAM16	21.52	5	24.37	PASS
Band12	1.4	23173	3	#Max	QAM16	21.56	5	24.41	PASS
Band12	1.4	23173	6	#0	QAM16	20.57	5	23.42	PASS
Band12	3	23025	1	#0	QPSK	22.52	5	25.37	PASS
Band12	3	23025	1	#Mid	QPSK	22.72	5	25.57	PASS
Band12	3	23025	1	#Max	QPSK	22.43	5	25.28	PASS
Band12	3	23025	8	#0	QPSK	21.45	5	24.30	PASS
Band12	3	23025	8	#Mid	QPSK	21.72	5	24.57	PASS
Band12	3	23025	8	#Max	QPSK	21.64	5	24.49	PASS
Band12	3	23025	15	#0	QPSK	21.53	5	24.38	PASS
Band12	3	23025	1	#0	QAM16	21.98	5	24.83	PASS
Band12	3	23025	1	#Mid	QAM16	22.05	5	24.90	PASS
Band12	3	23025	1	#Max	QAM16	21.88	5	24.73	PASS
Band12	3	23025	8	#0	QAM16	20.44	5	23.29	PASS
Band12	3	23025	8	#Mid	QAM16	20.51	5	23.36	PASS
Band12	3	23025	8	#Max	QAM16	20.42	5	23.27	PASS
Band12	3	23025	15	#0	QAM16	20.41	5	23.26	PASS
Band12	3	23095	1	#0	QPSK	22.39	5	25.24	PASS
Band12	3	23095	1	#Mid	QPSK	22.64	5	25.49	PASS
Band12	3	23095	1	#Max	QPSK	22.43	5	25.28	PASS
Band12	3	23095	8	#0	QPSK	21.52	5	24.37	PASS
Band12	3	23095	8	#Mid	QPSK	21.56	5	24.41	PASS
Band12	3	23095	8	#Max	QPSK	21.48	5	24.33	PASS
Band12	3	23095	15	#0	QPSK	21.57	5	24.42	PASS
Band12	3	23095	1	#0	QAM16	21.17	5	24.02	PASS
Band12	3	23095	1	#Mid	QAM16	21.15	5	24.00	PASS
Band12	3	23095	1	#Max	QAM16	21.10	5	23.95	PASS
Band12	3	23095	8	#0	QAM16	20.29	5	23.14	PASS
Band12	3	23095	8	#Mid	QAM16	20.43	5	23.28	PASS
Band12	3	23095	8	#Max	QAM16	20.47	5	23.32	PASS
Band12	3	23095	15	#0	QAM16	20.37	5	23.22	PASS
Band12	3	23165	1	#0	QPSK	22.70	5	25.55	PASS
Band12	3	23165	1	#Mid	QPSK	22.62	5	25.47	PASS
Band12	3	23165	1	#Max	QPSK	22.83	5	25.68	PASS
Band12	3	23165	8	#0	QPSK	21.47	5	24.32	PASS
Band12	3	23165	8	#Mid	QPSK	21.53	5	24.38	PASS
Band12	3	23165	8	#Max	QPSK	21.59	5	24.44	PASS
Band12	3	23165	15	#0	QPSK	21.59	5	24.44	PASS
Band12	3	23165	1	#0	QAM16	21.28	5	24.13	PASS
Band12	3	23165	1	#Mid	QAM16	21.38	5	24.23	PASS
Band12	3	23165	1	#Max	QAM16	21.44	5	24.29	PASS

Band12	3	23165	8	#0	QAM16	20.24	5	23.09	PASS
Band12	3	23165	8	#Mid	QAM16	20.32	5	23.17	PASS
Band12	3	23165	8	#Max	QAM16	20.37	5	23.22	PASS
Band12	3	23165	15	#0	QAM16	20.32	5	23.17	PASS
Band12	5	23035	1	#0	QPSK	22.40	5	25.25	PASS
Band12	5	23035	1	#Mid	QPSK	22.76	5	25.61	PASS
Band12	5	23035	1	#Max	QPSK	22.28	5	25.13	PASS
Band12	5	23035	12	#0	QPSK	21.52	5	24.37	PASS
Band12	5	23035	12	#Mid	QPSK	21.40	5	24.25	PASS
Band12	5	23035	12	#Max	QPSK	21.37	5	24.22	PASS
Band12	5	23035	25	#0	QPSK	21.45	5	24.30	PASS
Band12	5	23035	1	#0	QAM16	21.56	5	24.41	PASS
Band12	5	23035	1	#Mid	QAM16	21.95	5	24.80	PASS
Band12	5	23035	1	#Max	QAM16	21.88	5	24.73	PASS
Band12	5	23035	12	#0	QAM16	20.50	5	23.35	PASS
Band12	5	23035	12	#Mid	QAM16	20.44	5	23.29	PASS
Band12	5	23035	12	#Max	QAM16	20.37	5	23.22	PASS
Band12	5	23035	25	#0	QAM16	20.51	5	23.36	PASS
Band12	5	23095	1	#0	QPSK	22.31	5	25.16	PASS
Band12	5	23095	1	#Mid	QPSK	22.59	5	25.44	PASS
Band12	5	23095	1	#Max	QPSK	22.37	5	25.22	PASS
Band12	5	23095	12	#0	QPSK	21.43	5	24.28	PASS
Band12	5	23095	12	#Mid	QPSK	21.53	5	24.38	PASS
Band12	5	23095	12	#Max	QPSK	21.47	5	24.32	PASS
Band12	5	23095	25	#0	QPSK	21.47	5	24.32	PASS
Band12	5	23095	1	#0	QAM16	21.36	5	24.21	PASS
Band12	5	23095	1	#Mid	QAM16	21.10	5	23.95	PASS
Band12	5	23095	1	#Max	QAM16	21.32	5	24.17	PASS
Band12	5	23095	12	#0	QAM16	20.23	5	23.08	PASS
Band12	5	23095	12	#Mid	QAM16	20.33	5	23.18	PASS
Band12	5	23095	12	#Max	QAM16	20.34	5	23.19	PASS
Band12	5	23095	25	#0	QAM16	20.49	5	23.34	PASS
Band12	5	23155	1	#0	QPSK	22.37	5	25.22	PASS
Band12	5	23155	1	#Mid	QPSK	22.37	5	25.22	PASS
Band12	5	23155	1	#Max	QPSK	22.45	5	25.30	PASS
Band12	5	23155	12	#0	QPSK	21.46	5	24.31	PASS
Band12	5	23155	12	#Mid	QPSK	21.47	5	24.32	PASS
Band12	5	23155	12	#Max	QPSK	21.42	5	24.27	PASS
Band12	5	23155	25	#0	QPSK	21.37	5	24.22	PASS
Band12	5	23155	1	#0	QAM16	21.50	5	24.35	PASS
Band12	5	23155	1	#Mid	QAM16	21.53	5	24.38	PASS
Band12	5	23155	1	#Max	QAM16	21.44	5	24.29	PASS
Band12	5	23155	12	#0	QAM16	20.49	5	23.34	PASS

Band12	5	23155	12	#Mid	QAM16	20.44	5	23.29	PASS
Band12	5	23155	12	#Max	QAM16	20.45	5	23.30	PASS
Band12	5	23155	25	#0	QAM16	20.28	5	23.13	PASS
Band12	10	23060	1	#0	QPSK	22.31	5	25.16	PASS
Band12	10	23060	1	#Mid	QPSK	22.33	5	25.18	PASS
Band12	10	23060	1	#Max	QPSK	22.31	5	25.16	PASS
Band12	10	23060	25	#0	QPSK	21.41	5	24.26	PASS
Band12	10	23060	25	#Mid	QPSK	21.30	5	24.15	PASS
Band12	10	23060	25	#Max	QPSK	21.48	5	24.33	PASS
Band12	10	23060	50	#0	QPSK	21.50	5	24.35	PASS
Band12	10	23060	1	#0	QAM16	21.83	5	24.68	PASS
Band12	10	23060	1	#Mid	QAM16	21.78	5	24.63	PASS
Band12	10	23060	1	#Max	QAM16	21.86	5	24.71	PASS
Band12	10	23060	25	#0	QAM16	20.51	5	23.36	PASS
Band12	10	23060	25	#Mid	QAM16	20.41	5	23.26	PASS
Band12	10	23060	25	#Max	QAM16	20.60	5	23.45	PASS
Band12	10	23060	50	#0	QAM16	20.30	5	23.15	PASS
Band12	10	23095	1	#0	QPSK	22.31	5	25.16	PASS
Band12	10	23095	1	#Mid	QPSK	22.66	5	25.51	PASS
Band12	10	23095	1	#Max	QPSK	22.44	5	25.29	PASS
Band12	10	23095	25	#0	QPSK	21.33	5	24.18	PASS
Band12	10	23095	25	#Mid	QPSK	21.52	5	24.37	PASS
Band12	10	23095	25	#Max	QPSK	21.48	5	24.33	PASS
Band12	10	23095	50	#0	QPSK	21.48	5	24.33	PASS
Band12	10	23095	1	#0	QAM16	21.30	5	24.15	PASS
Band12	10	23095	1	#Mid	QAM16	21.26	5	24.11	PASS
Band12	10	23095	1	#Max	QAM16	21.17	5	24.02	PASS
Band12	10	23095	25	#0	QAM16	20.34	5	23.19	PASS
Band12	10	23095	25	#Mid	QAM16	20.43	5	23.28	PASS
Band12	10	23095	25	#Max	QAM16	20.47	5	23.32	PASS
Band12	10	23095	50	#0	QAM16	20.41	5	23.26	PASS
Band12	10	23130	1	#0	QPSK	22.58	5	25.43	PASS
Band12	10	23130	1	#Mid	QPSK	22.72	5	25.57	PASS
Band12	10	23130	1	#Max	QPSK	22.73	5	25.58	PASS
Band12	10	23130	25	#0	QPSK	21.51	5	24.36	PASS
Band12	10	23130	25	#Mid	QPSK	21.65	5	24.50	PASS
Band12	10	23130	25	#Max	QPSK	21.51	5	24.36	PASS
Band12	10	23130	50	#0	QPSK	21.58	5	24.43	PASS
Band12	10	23130	1	#0	QAM16	21.29	5	24.14	PASS
Band12	10	23130	1	#Mid	QAM16	21.73	5	24.58	PASS
Band12	10	23130	1	#Max	QAM16	21.34	5	24.19	PASS
Band12	10	23130	25	#0	QAM16	20.51	5	23.36	PASS
Band12	10	23130	25	#Mid	QAM16	20.66	5	23.51	PASS

Band12	10	23130	25	#Max	QAM16	20.45	5	23.30	PASS
Band12	10	23130	50	#0	QAM16	20.45	5	23.30	PASS

Appendix 2. Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (C)	Result (Hz)	Result (ppm)	Low Limit (ppm)	High Limit (ppm)	Verdict
Band12	1.4	23017	6	#0	QPSK	LV	NT	0.46	0.001	-2.5	2.5	PASS
Band12	1.4	23017	6	#0	QPSK	NV	NT	-1.56	-0.002	-2.5	2.5	PASS
Band12	1.4	23017	6	#0	QPSK	HV	NT	-0.43	-0.001	-2.5	2.5	PASS
Band12	1.4	23017	6	#0	QAM16	LV	NT	-0.93	-0.001	-2.5	2.5	PASS
Band12	1.4	23017	6	#0	QAM16	NV	NT	-0.64	-0.001	-2.5	2.5	PASS
Band12	1.4	23017	6	#0	QAM16	HV	NT	-1.07	-0.002	-2.5	2.5	PASS
Band12	1.4	23095	6	#0	QPSK	LV	NT	-0.83	-0.001	-2.5	2.5	PASS
Band12	1.4	23095	6	#0	QPSK	NV	NT	-1.16	-0.002	-2.5	2.5	PASS
Band12	1.4	23095	6	#0	QPSK	HV	NT	-0.90	-0.001	-2.5	2.5	PASS
Band12	1.4	23095	6	#0	QAM16	LV	NT	-0.93	-0.001	-2.5	2.5	PASS
Band12	1.4	23095	6	#0	QAM16	NV	NT	-1.92	-0.003	-2.5	2.5	PASS
Band12	1.4	23095	6	#0	QAM16	HV	NT	-1.52	-0.002	-2.5	2.5	PASS
Band12	1.4	23173	6	#0	QPSK	LV	NT	-1.57	-0.002	-2.5	2.5	PASS
Band12	1.4	23173	6	#0	QPSK	NV	NT	-0.94	-0.001	-2.5	2.5	PASS
Band12	1.4	23173	6	#0	QPSK	HV	NT	-0.96	-0.001	-2.5	2.5	PASS
Band12	1.4	23173	6	#0	QAM16	LV	NT	-2.20	-0.003	-2.5	2.5	PASS
Band12	1.4	23173	6	#0	QAM16	NV	NT	-0.19	0.000	-2.5	2.5	PASS

2												
Band1 2	1.4	23173	6	#0	QAM16	HV	NT	-0.04	0.000	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QPSK	LV	NT	-5.52	-0.00 8	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QPSK	NV	NT	-4.92	-0.00 7	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QPSK	HV	NT	-5.66	-0.00 8	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QAM16	LV	NT	-5.25	-0.00 7	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QAM16	NV	NT	-4.73	-0.00 7	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QAM16	HV	NT	-4.33	-0.00 6	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QPSK	LV	NT	0.14	0.000	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QPSK	NV	NT	-1.14	-0.00 2	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QPSK	HV	NT	-1.20	-0.00 2	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QAM16	LV	NT	-1.57	-0.00 2	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QAM16	NV	NT	-1.72	-0.00 2	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QAM16	HV	NT	-2.10	-0.00 3	-2.5	2.5	PASS
Band1 2	3	23165	15	#0	QPSK	LV	NT	-0.24	0.000	-2.5	2.5	PASS
Band1 2	3	23165	15	#0	QPSK	NV	NT	-1.33	-0.00 2	-2.5	2.5	PASS
Band1 2	3	23165	15	#0	QPSK	HV	NT	-2.25	-0.00 3	-2.5	2.5	PASS
Band1 2	3	23165	15	#0	QAM16	LV	NT	-1.12	-0.00 2	-2.5	2.5	PASS
Band1 2	3	23165	15	#0	QAM16	NV	NT	-1.10	-0.00 2	-2.5	2.5	PASS
Band1 2	3	23165	15	#0	QAM16	HV	NT	0.31	0.000	-2.5	2.5	PASS
Band1 2	5	23035	25	#0	QPSK	LV	NT	-0.04	0.000	-2.5	2.5	PASS
Band1 2	5	23035	25	#0	QPSK	NV	NT	-0.40	-0.00 1	-2.5	2.5	PASS

Band1 2	5	23035	25	#0	QPSK	HV	NT	-0.54	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23035	25	#0	QAM16	LV	NT	-0.36	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23035	25	#0	QAM16	NV	NT	-2.16	-0.00 3	-2.5	2.5	PASS
Band1 2	5	23035	25	#0	QAM16	HV	NT	-1.85	-0.00 3	-2.5	2.5	PASS
Band1 2	5	23095	25	#0	QPSK	LV	NT	-0.60	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23095	25	#0	QPSK	NV	NT	-1.17	-0.00 2	-2.5	2.5	PASS
Band1 2	5	23095	25	#0	QPSK	HV	NT	-0.27	0.000	-2.5	2.5	PASS
Band1 2	5	23095	25	#0	QAM16	LV	NT	-0.90	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23095	25	#0	QAM16	NV	NT	-0.99	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23095	25	#0	QAM16	HV	NT	-0.84	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QPSK	LV	NT	-1.12	-0.00 2	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QPSK	NV	NT	-1.89	-0.00 3	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QPSK	HV	NT	-1.12	-0.00 2	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QAM16	LV	NT	-0.57	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QAM16	NV	NT	-0.96	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QAM16	HV	NT	-0.99	-0.00 1	-2.5	2.5	PASS
Band1 2	10	23060	50	#0	QPSK	LV	NT	0.89	0.001	-2.5	2.5	PASS
Band1 2	10	23060	50	#0	QPSK	NV	NT	-0.54	-0.00 1	-2.5	2.5	PASS
Band1 2	10	23060	50	#0	QPSK	HV	NT	-0.13	0.000	-2.5	2.5	PASS
Band1 2	10	23060	50	#0	QAM16	LV	NT	-1.13	-0.00 2	-2.5	2.5	PASS
Band1 2	10	23060	50	#0	QAM16	NV	NT	-0.59	-0.00 1	-2.5	2.5	PASS
Band1 2	10	23060	50	#0	QAM16	HV	NT	-1.06	-0.00	-2.5	2.5	PASS

2									2			
Band1 2	10	23095	50	#0	QPSK	LV	NT	-1.33	-0.00 2	-2.5	2.5	PASS
Band1 2	10	23095	50	#0	QPSK	NV	NT	-0.97	-0.00 1	-2.5	2.5	PASS
Band1 2	10	23095	50	#0	QPSK	HV	NT	-0.49	-0.00 1	-2.5	2.5	PASS
Band1 2	10	23095	50	#0	QAM16	LV	NT	-1.23	-0.00 2	-2.5	2.5	PASS
Band1 2	10	23095	50	#0	QAM16	NV	NT	-0.77	-0.00 1	-2.5	2.5	PASS
Band1 2	10	23095	50	#0	QAM16	HV	NT	-2.25	-0.00 3	-2.5	2.5	PASS
Band1 2	10	23130	50	#0	QPSK	LV	NT	-2.66	-0.00 4	-2.5	2.5	PASS
Band1 2	10	23130	50	#0	QPSK	NV	NT	-2.39	-0.00 3	-2.5	2.5	PASS
Band1 2	10	23130	50	#0	QPSK	HV	NT	-2.03	-0.00 3	-2.5	2.5	PASS
Band1 2	10	23130	50	#0	QAM16	LV	NT	-1.72	-0.00 2	-2.5	2.5	PASS
Band1 2	10	23130	50	#0	QAM16	NV	NT	-2.10	-0.00 3	-2.5	2.5	PASS
Band1 2	10	23130	50	#0	QAM16	HV	NT	-1.22	-0.00 2	-2.5	2.5	PASS

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (C)	Result (Hz)	Result (ppm)	Low Limit (ppm)	High Limit (ppm)	Verdict
Band1 2	1.4	23017	6	#0	QPSK	NV	-30	-0.20	0.000	-2.5	2.5	PASS
Band1 2	1.4	23017	6	#0	QPSK	NV	-20	-0.27	0.000	-2.5	2.5	PASS
Band1 2	1.4	23017	6	#0	QPSK	NV	0	0.06	0.000	-2.5	2.5	PASS
Band1 2	1.4	23017	6	#0	QPSK	NV	10	-0.49	-0.00 1	-2.5	2.5	PASS
Band1 2	1.4	23017	6	#0	QPSK	NV	20	0.59	0.001	-2.5	2.5	PASS
Band1 2	1.4	23017	6	#0	QAM16	NV	-30	-1.32	-0.00 2	-2.5	2.5	PASS
Band1	1.4	23017	6	#0	QAM16	NV	-20	0.30	0.000	-2.5	2.5	PASS

2												
Band1 2	1.4	23017	6	#0	QAM16	NV	0	0.06	0.000	-2.5	2.5	PASS
Band1 2	1.4	23017	6	#0	QAM16	NV	10	-1.06	-0.00 2	-2.5	2.5	PASS
Band1 2	1.4	23017	6	#0	QAM16	NV	20	-0.17	0.000	-2.5	2.5	PASS
Band1 2	1.4	23095	6	#0	QPSK	NV	-30	-1.37	-0.00 2	-2.5	2.5	PASS
Band1 2	1.4	23095	6	#0	QPSK	NV	-20	-0.07	0.000	-2.5	2.5	PASS
Band1 2	1.4	23095	6	#0	QPSK	NV	0	-1.14	-0.00 2	-2.5	2.5	PASS
Band1 2	1.4	23095	6	#0	QPSK	NV	10	-1.46	-0.00 2	-2.5	2.5	PASS
Band1 2	1.4	23095	6	#0	QPSK	NV	20	-1.22	-0.00 2	-2.5	2.5	PASS
Band1 2	1.4	23095	6	#0	QAM16	NV	-30	-1.43	-0.00 2	-2.5	2.5	PASS
Band1 2	1.4	23095	6	#0	QAM16	NV	-20	-2.13	-0.00 3	-2.5	2.5	PASS
Band1 2	1.4	23095	6	#0	QAM16	NV	0	-0.54	-0.00 1	-2.5	2.5	PASS
Band1 2	1.4	23095	6	#0	QAM16	NV	10	-0.64	-0.00 1	-2.5	2.5	PASS
Band1 2	1.4	23095	6	#0	QAM16	NV	20	-1.82	-0.00 3	-2.5	2.5	PASS
Band1 2	1.4	23173	6	#0	QPSK	NV	-30	0.76	0.001	-2.5	2.5	PASS
Band1 2	1.4	23173	6	#0	QPSK	NV	-20	-0.43	-0.00 1	-2.5	2.5	PASS
Band1 2	1.4	23173	6	#0	QPSK	NV	0	-1.27	-0.00 2	-2.5	2.5	PASS
Band1 2	1.4	23173	6	#0	QPSK	NV	10	-2.06	-0.00 3	-2.5	2.5	PASS
Band1 2	1.4	23173	6	#0	QPSK	NV	20	-1.75	-0.00 2	-2.5	2.5	PASS
Band1 2	1.4	23173	6	#0	QAM16	NV	-30	-0.84	-0.00 1	-2.5	2.5	PASS
Band1 2	1.4	23173	6	#0	QAM16	NV	-20	-1.80	-0.00 3	-2.5	2.5	PASS
Band1 2	1.4	23173	6	#0	QAM16	NV	0	-0.67	-0.00 1	-2.5	2.5	PASS

Band1 2	1.4	23173	6	#0	QAM16	NV	10	-1.17	-0.00 2	-2.5	2.5	PASS
Band1 2	1.4	23173	6	#0	QAM16	NV	20	-0.36	-0.00 1	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QPSK	NV	-30	-4.32	-0.00 6	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QPSK	NV	-20	-4.28	-0.00 6	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QPSK	NV	0	-4.61	-0.00 7	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QPSK	NV	10	-4.98	-0.00 7	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QPSK	NV	20	-4.06	-0.00 6	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QAM16	NV	-30	-4.22	-0.00 6	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QAM16	NV	-20	-4.28	-0.00 6	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QAM16	NV	0	-4.66	-0.00 7	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QAM16	NV	10	-4.86	-0.00 7	-2.5	2.5	PASS
Band1 2	3	23025	15	#0	QAM16	NV	20	-4.84	-0.00 7	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QPSK	NV	-30	-0.04	0.000	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QPSK	NV	-20	-0.99	-0.00 1	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QPSK	NV	0	-0.46	-0.00 1	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QPSK	NV	10	-0.87	-0.00 1	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QPSK	NV	20	0.64	0.001	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QAM16	NV	-30	-2.62	-0.00 4	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QAM16	NV	-20	-1.57	-0.00 2	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QAM16	NV	0	-1.26	-0.00 2	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QAM16	NV	10	-1.24	-0.00 2	-2.5	2.5	PASS
Band1 2	3	23095	15	#0	QAM16	NV	20	-0.54	-0.00	-2.5	2.5	PASS

2									1			
Band1 2	3	23165	15	#0	QPSK	NV	-30	-0.82	-0.00 1	-2.5	2.5	PASS
Band1 2	3	23165	15	#0	QPSK	NV	-20	0.46	0.001	-2.5	2.5	PASS
Band1 2	3	23165	15	#0	QPSK	NV	0	-0.57	-0.00 1	-2.5	2.5	PASS
Band1 2	3	23165	15	#0	QPSK	NV	10	-1.36	-0.00 2	-2.5	2.5	PASS
Band1 2	3	23165	15	#0	QPSK	NV	20	0.11	0.000	-2.5	2.5	PASS
Band1 2	3	23165	15	#0	QAM16	NV	-30	-0.80	-0.00 1	-2.5	2.5	PASS
Band1 2	3	23165	15	#0	QAM16	NV	-20	-1.26	-0.00 2	-2.5	2.5	PASS
Band1 2	3	23165	15	#0	QAM16	NV	0	-1.90	-0.00 3	-2.5	2.5	PASS
Band1 2	3	23165	15	#0	QAM16	NV	10	-0.80	-0.00 1	-2.5	2.5	PASS
Band1 2	3	23165	15	#0	QAM16	NV	20	-0.31	0.000	-2.5	2.5	PASS
Band1 2	5	23035	25	#0	QPSK	NV	-30	-0.26	0.000	-2.5	2.5	PASS
Band1 2	5	23035	25	#0	QPSK	NV	-20	-1.43	-0.00 2	-2.5	2.5	PASS
Band1 2	5	23035	25	#0	QPSK	NV	0	-0.83	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23035	25	#0	QPSK	NV	10	-1.02	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23035	25	#0	QPSK	NV	20	-0.19	0.000	-2.5	2.5	PASS
Band1 2	5	23035	25	#0	QAM16	NV	-30	-1.02	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23035	25	#0	QAM16	NV	-20	-0.54	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23035	25	#0	QAM16	NV	0	-1.13	-0.00 2	-2.5	2.5	PASS
Band1 2	5	23035	25	#0	QAM16	NV	10	-0.84	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23035	25	#0	QAM16	NV	20	-0.97	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23095	25	#0	QPSK	NV	-30	-0.87	-0.00 1	-2.5	2.5	PASS

Band1 2	5	23095	25	#0	QPSK	NV	-20	-1.29	-0.00 2	-2.5	2.5	PASS
Band1 2	5	23095	25	#0	QPSK	NV	0	-2.05	-0.00 3	-2.5	2.5	PASS
Band1 2	5	23095	25	#0	QPSK	NV	10	-0.96	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23095	25	#0	QPSK	NV	20	-0.99	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23095	25	#0	QAM16	NV	-30	-1.82	-0.00 3	-2.5	2.5	PASS
Band1 2	5	23095	25	#0	QAM16	NV	-20	-1.59	-0.00 2	-2.5	2.5	PASS
Band1 2	5	23095	25	#0	QAM16	NV	0	-2.35	-0.00 3	-2.5	2.5	PASS
Band1 2	5	23095	25	#0	QAM16	NV	10	-2.79	-0.00 4	-2.5	2.5	PASS
Band1 2	5	23095	25	#0	QAM16	NV	20	-2.22	-0.00 3	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QPSK	NV	-30	-1.42	-0.00 2	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QPSK	NV	-20	0.17	0.000	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QPSK	NV	0	-1.30	-0.00 2	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QPSK	NV	10	-0.70	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QPSK	NV	20	-1.57	-0.00 2	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QAM16	NV	-30	-0.96	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QAM16	NV	-20	-0.90	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QAM16	NV	0	-0.73	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QAM16	NV	10	-0.54	-0.00 1	-2.5	2.5	PASS
Band1 2	5	23155	25	#0	QAM16	NV	20	0.56	0.001	-2.5	2.5	PASS
Band1 2	10	23060	50	#0	QPSK	NV	-30	-0.89	-0.00 1	-2.5	2.5	PASS
Band1 2	10	23060	50	#0	QPSK	NV	-20	-0.62	-0.00 1	-2.5	2.5	PASS
Band1	10	23060	50	#0	QPSK	NV	0	-1.07	-0.00	-2.5	2.5	PASS

2									2			
Band1 2	10	23060	50	#0	QPSK	NV	10	-0.77	-0.00 1	-2.5	2.5	PASS
Band1 2	10	23060	50	#0	QPSK	NV	20	-1.09	-0.00 2	-2.5	2.5	PASS
Band1 2	10	23060	50	#0	QAM16	NV	-30	-1.12	-0.00 2	-2.5	2.5	PASS
Band1 2	10	23060	50	#0	QAM16	NV	-20	-1.52	-0.00 2	-2.5	2.5	PASS
Band1 2	10	23060	50	#0	QAM16	NV	0	-1.54	-0.00 2	-2.5	2.5	PASS
Band1 2	10	23060	50	#0	QAM16	NV	10	-0.90	-0.00 1	-2.5	2.5	PASS
Band1 2	10	23060	50	#0	QAM16	NV	20	0.26	0.000	-2.5	2.5	PASS
Band1 2	10	23095	50	#0	QPSK	NV	-30	-0.17	0.000	-2.5	2.5	PASS
Band1 2	10	23095	50	#0	QPSK	NV	-20	-0.83	-0.00 1	-2.5	2.5	PASS
Band1 2	10	23095	50	#0	QPSK	NV	0	-0.29	0.000	-2.5	2.5	PASS
Band1 2	10	23095	50	#0	QPSK	NV	10	-1.30	-0.00 2	-2.5	2.5	PASS
Band1 2	10	23095	50	#0	QPSK	NV	20	-1.85	-0.00 3	-2.5	2.5	PASS
Band1 2	10	23095	50	#0	QAM16	NV	-30	-1.29	-0.00 2	-2.5	2.5	PASS
Band1 2	10	23095	50	#0	QAM16	NV	-20	-1.24	-0.00 2	-2.5	2.5	PASS
Band1 2	10	23095	50	#0	QAM16	NV	0	-1.00	-0.00 1	-2.5	2.5	PASS
Band1 2	10	23095	50	#0	QAM16	NV	10	-2.43	-0.00 3	-2.5	2.5	PASS
Band1 2	10	23095	50	#0	QAM16	NV	20	-0.76	-0.00 1	-2.5	2.5	PASS
Band1 2	10	23130	50	#0	QPSK	NV	-30	-1.20	-0.00 2	-2.5	2.5	PASS
Band1 2	10	23130	50	#0	QPSK	NV	-20	-1.65	-0.00 2	-2.5	2.5	PASS
Band1 2	10	23130	50	#0	QPSK	NV	0	-1.80	-0.00 3	-2.5	2.5	PASS
Band1 2	10	23130	50	#0	QPSK	NV	10	-1.67	-0.00 2	-2.5	2.5	PASS

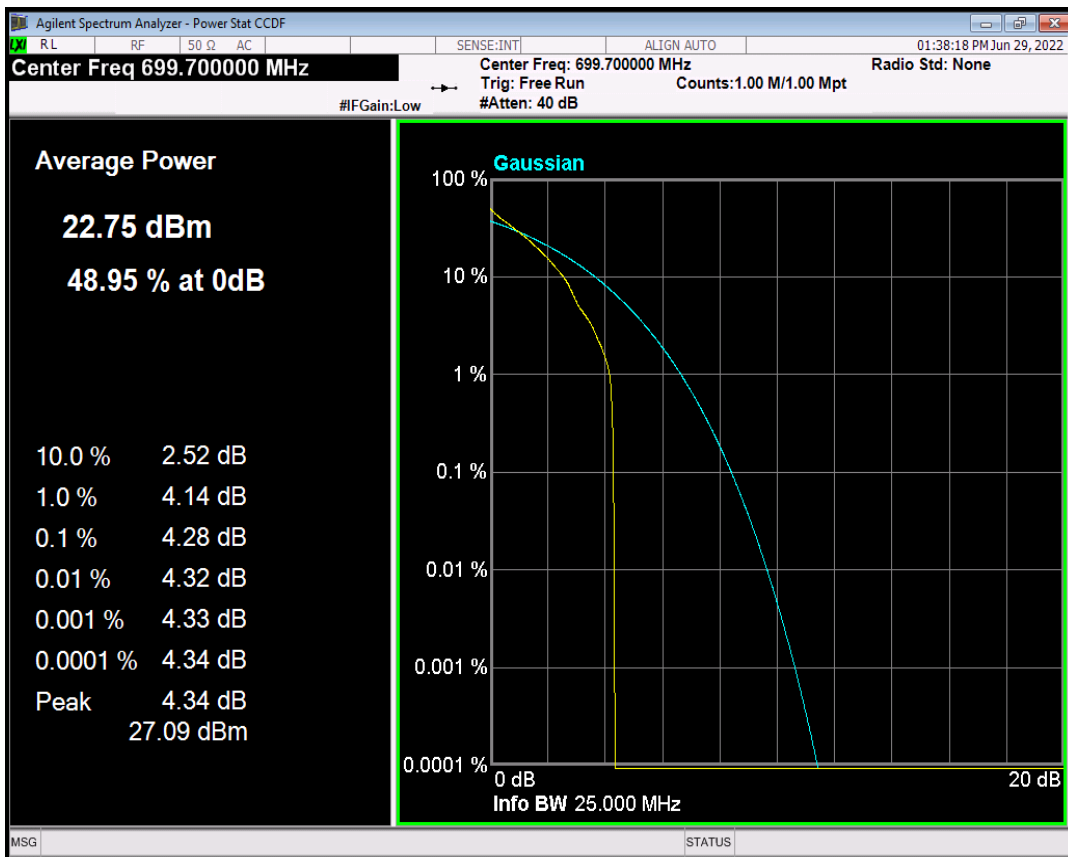
Band1 2	10	23130	50	#0	QPSK	NV	20	-1.13	-0.00 2	-2.5	2.5	PASS
Band1 2	10	23130	50	#0	QAM16	NV	-30	-2.23	-0.00 3	-2.5	2.5	PASS
Band1 2	10	23130	50	#0	QAM16	NV	-20	-1.70	-0.00 2	-2.5	2.5	PASS
Band1 2	10	23130	50	#0	QAM16	NV	0	-2.05	-0.00 3	-2.5	2.5	PASS
Band1 2	10	23130	50	#0	QAM16	NV	10	-2.76	-0.00 4	-2.5	2.5	PASS
Band1 2	10	23130	50	#0	QAM16	NV	20	-2.20	-0.00 3	-2.5	2.5	PASS

Appendix 3. Peak-to-Average Ratio

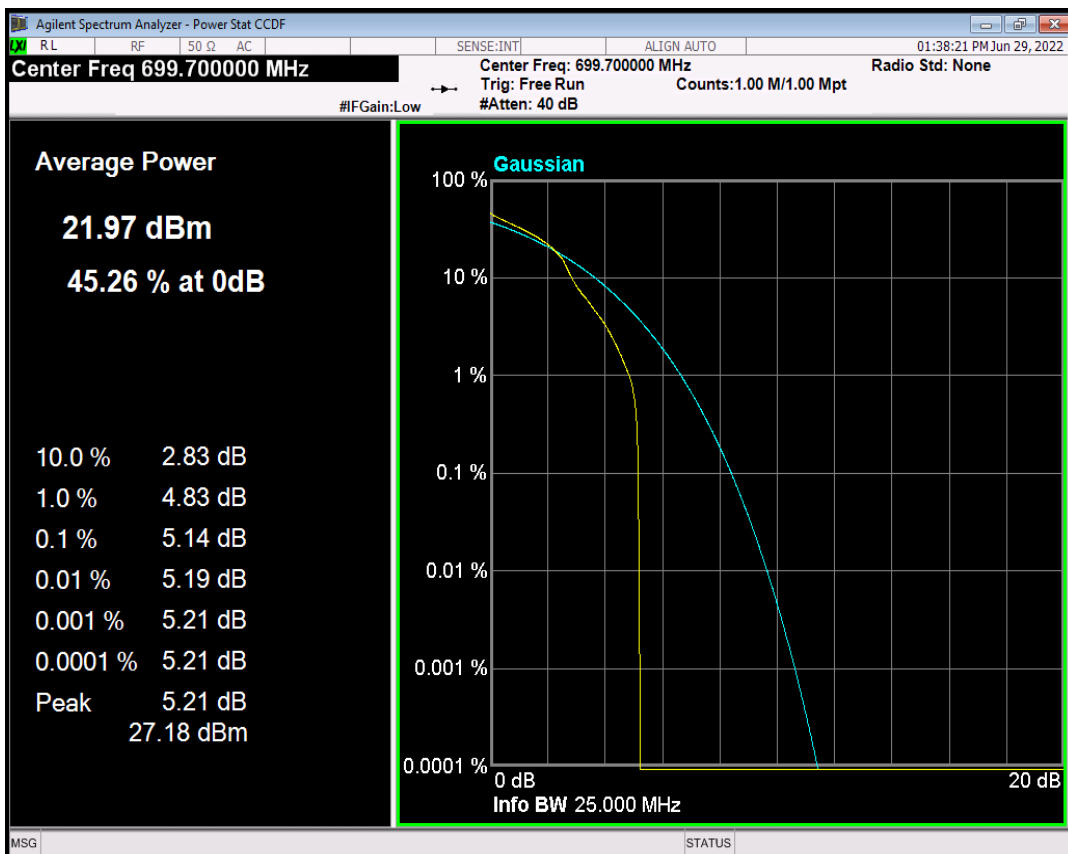
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band12	1.4	23017	1	#0	QPSK	4.28	13	PASS
Band12	1.4	23017	1	#0	QAM16	5.14	13	PASS
Band12	1.4	23095	1	#0	QPSK	4.44	13	PASS
Band12	1.4	23095	1	#0	QAM16	5.26	13	PASS
Band12	1.4	23173	1	#0	QPSK	4.30	13	PASS
Band12	1.4	23173	1	#0	QAM16	5.21	13	PASS
Band12	3	23025	1	#0	QPSK	4.32	13	PASS
Band12	3	23025	1	#0	QAM16	5.17	13	PASS
Band12	3	23095	1	#0	QPSK	4.46	13	PASS
Band12	3	23095	1	#0	QAM16	5.34	13	PASS
Band12	3	23165	1	#0	QPSK	4.54	13	PASS
Band12	3	23165	1	#0	QAM16	5.35	13	PASS
Band12	5	23035	1	#0	QPSK	4.28	13	PASS
Band12	5	23035	1	#0	QAM16	5.29	13	PASS
Band12	5	23095	1	#0	QPSK	4.51	13	PASS
Band12	5	23095	1	#0	QAM16	5.28	13	PASS
Band12	5	23155	1	#0	QPSK	4.60	13	PASS
Band12	5	23155	1	#0	QAM16	5.34	13	PASS
Band12	10	23060	1	#0	QPSK	4.31	13	PASS
Band12	10	23060	1	#0	QAM16	5.12	13	PASS
Band12	10	23095	1	#0	QPSK	4.48	13	PASS
Band12	10	23095	1	#0	QAM16	5.42	13	PASS
Band12	10	23130	1	#0	QPSK	4.42	13	PASS
Band12	10	23130	1	#0	QAM16	5.29	13	PASS



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

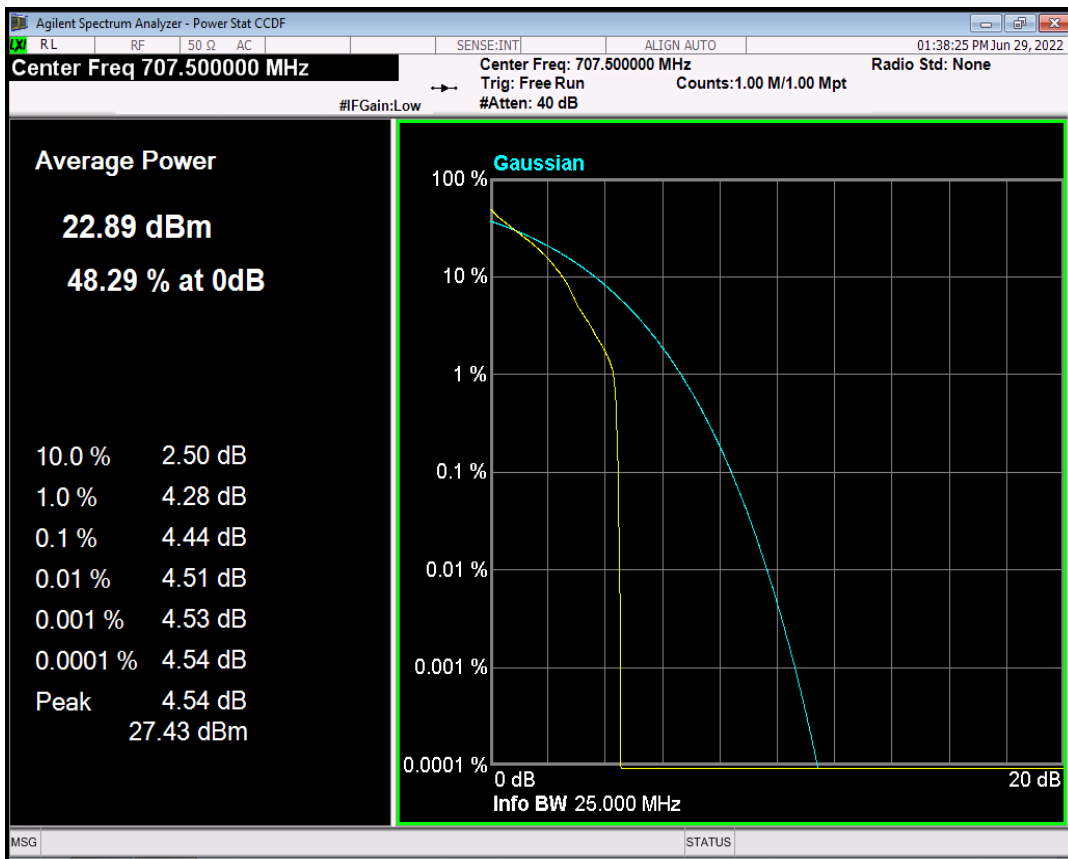


Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=1 Position=#0

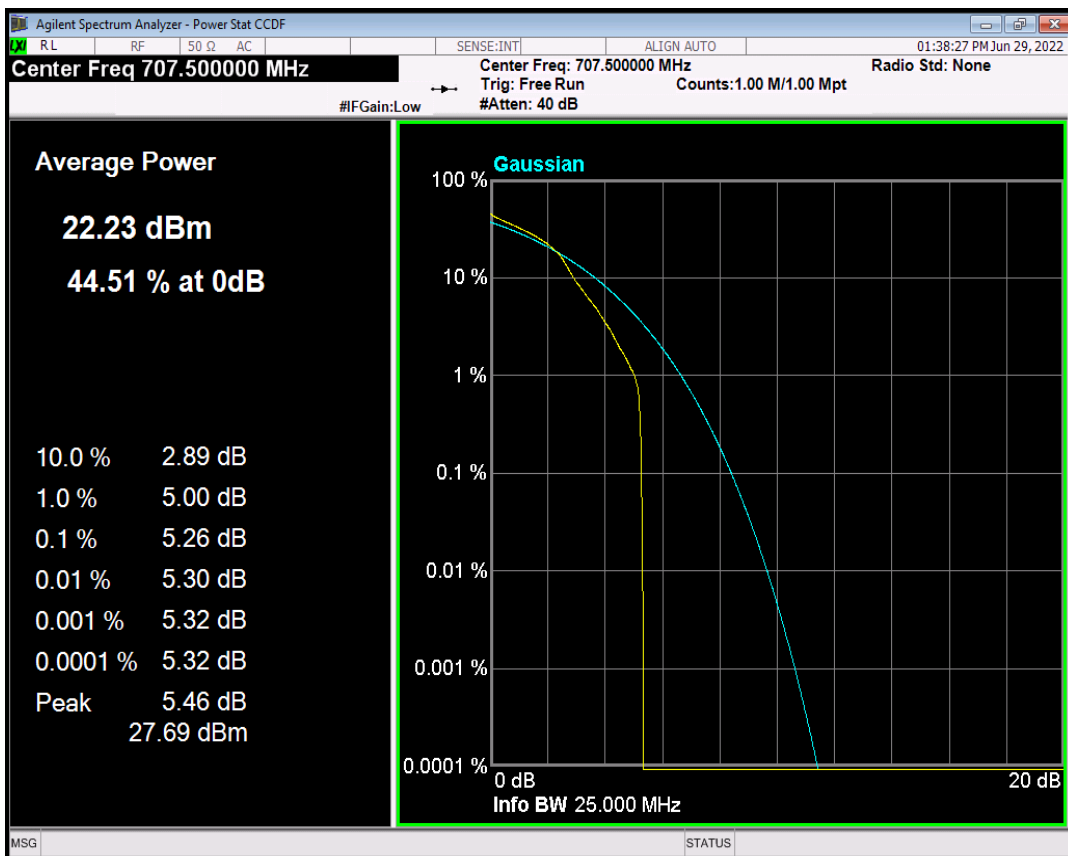




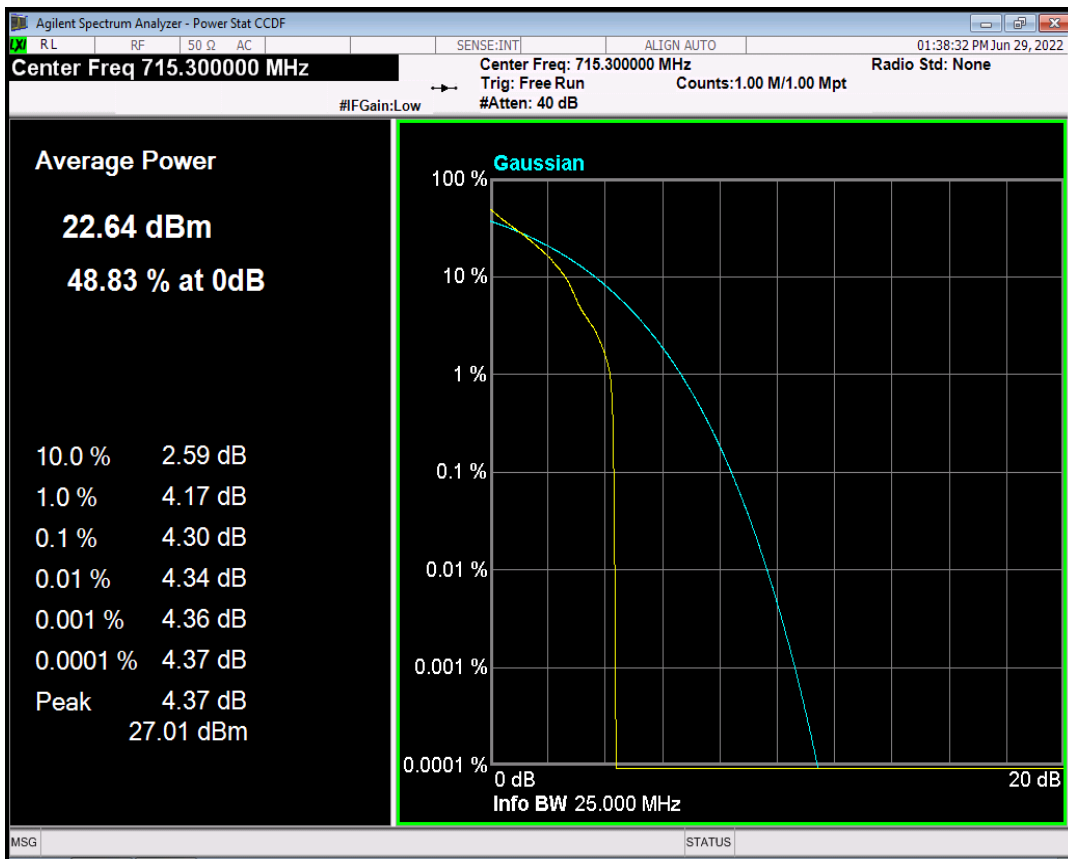
Band12 QPSK BW=1.4MHz Channel=23095 RB Size=1 Position=#0



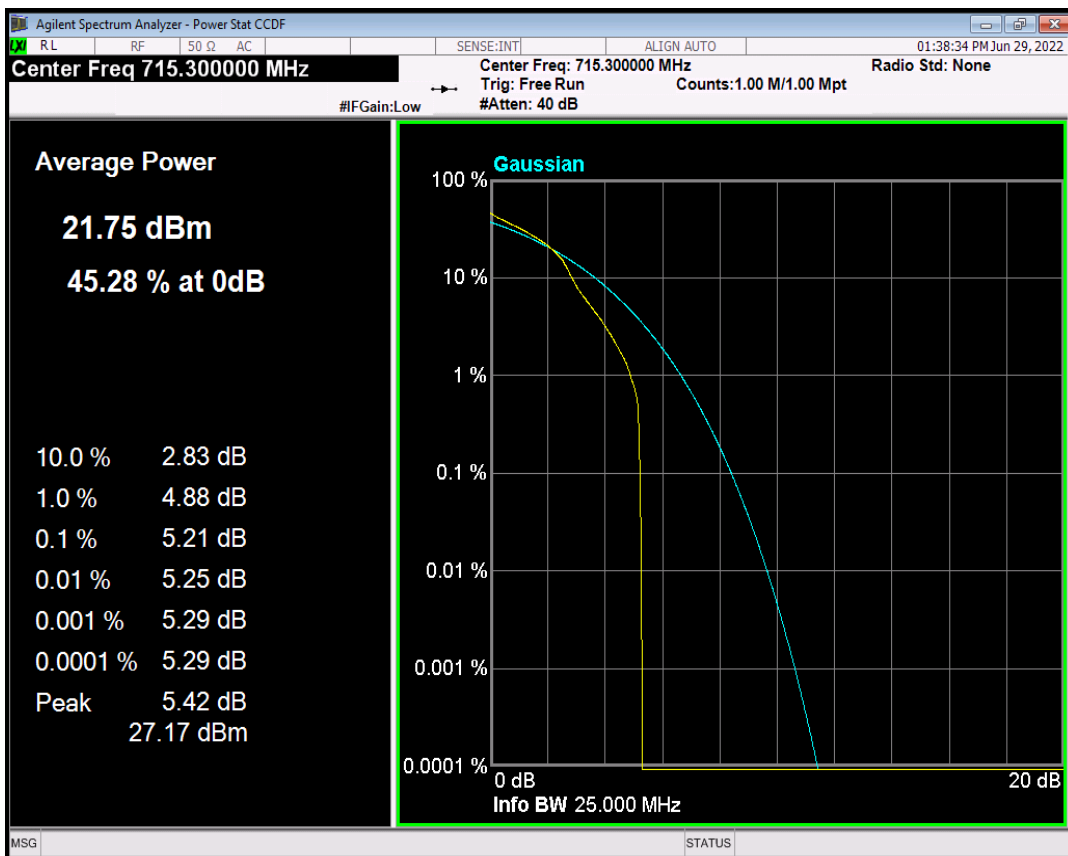
Band12 QAM16 BW=1.4MHz Channel=23095 RB Size=1 Position=#0



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

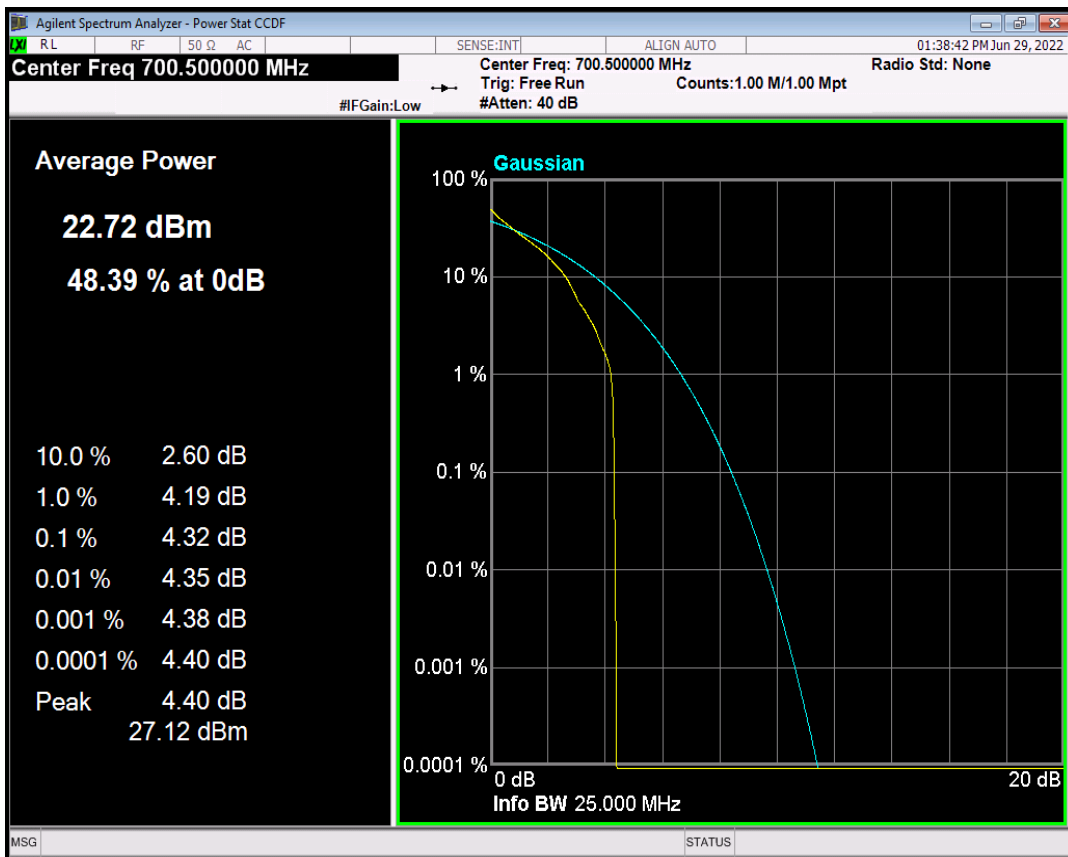


Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=1 Position=#0

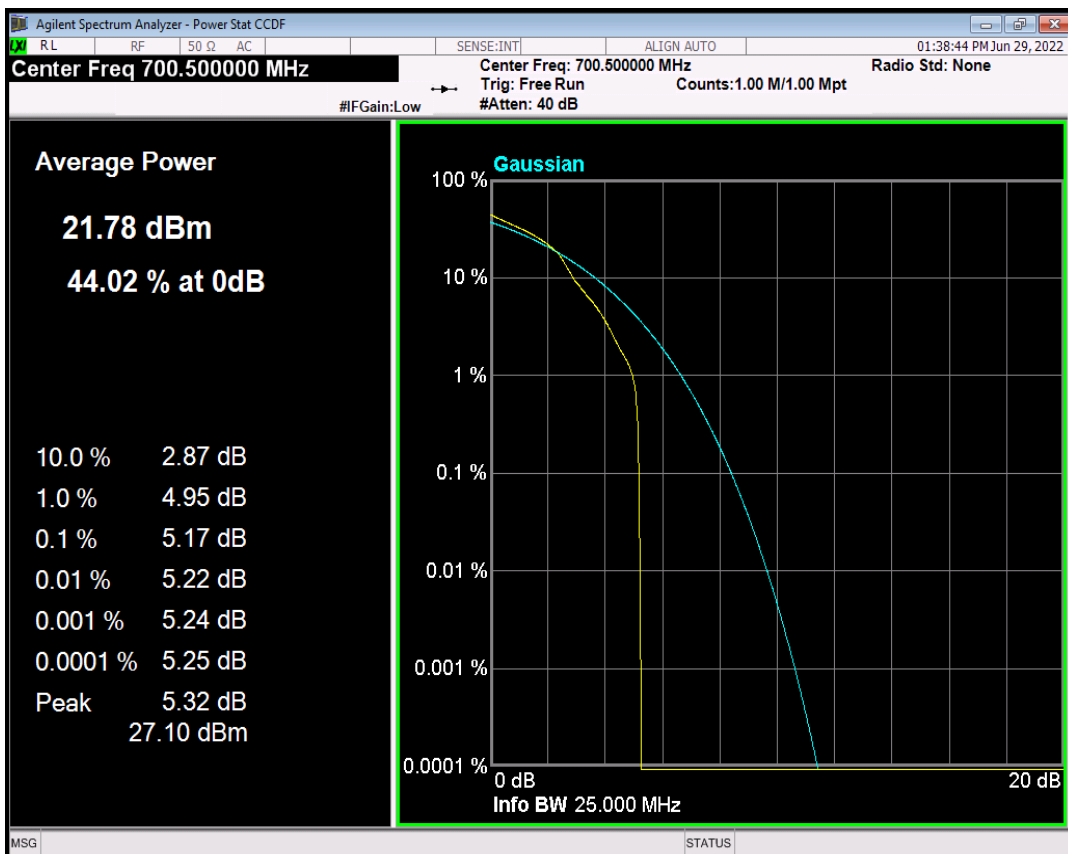




Band12 QPSK BW=3MHz Channel=23025 RB Size=1 Position=#0

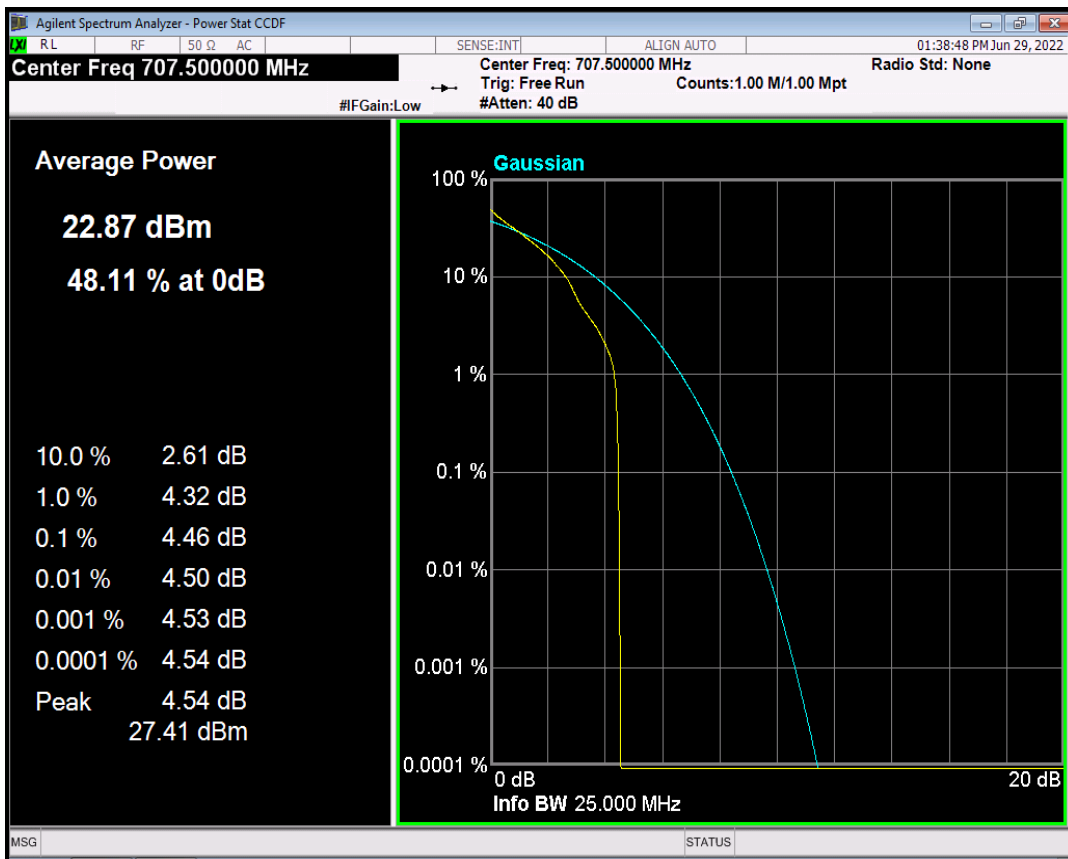


Band12 QAM16 BW=3MHz Channel=23025 RB Size=1 Position=#0

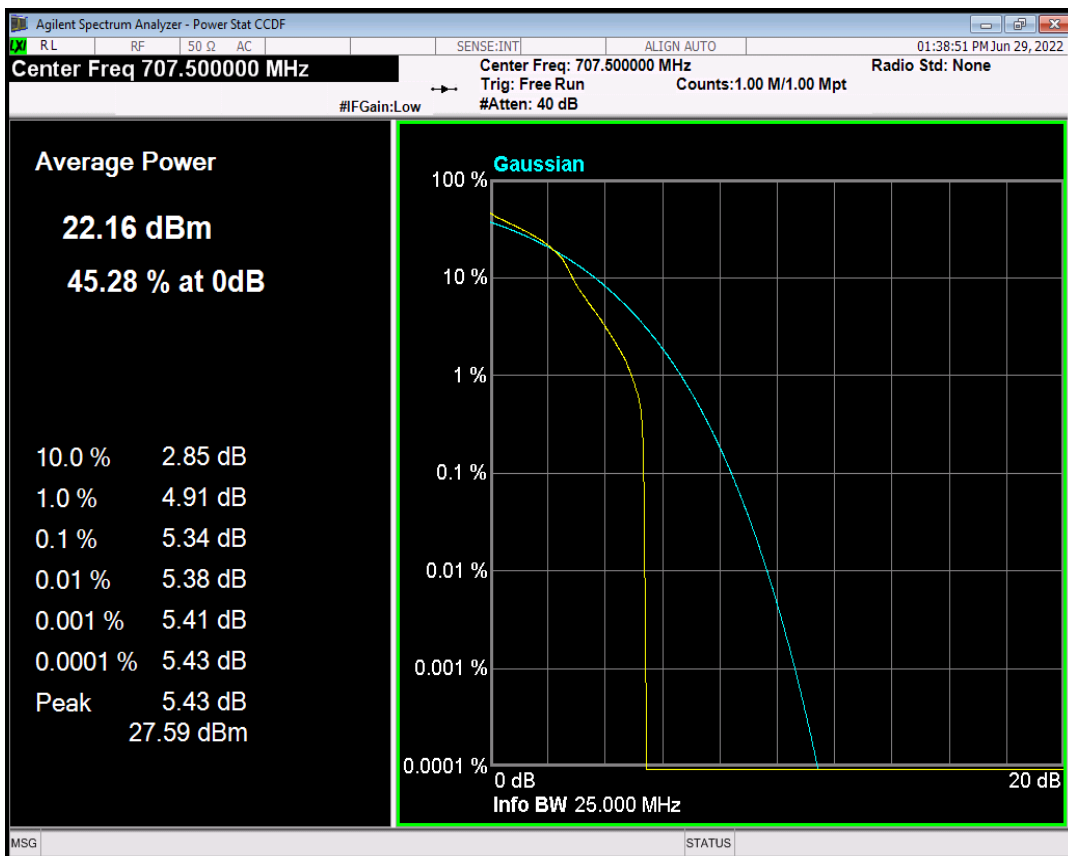




Band12 QPSK BW=3MHz Channel=23095 RB Size=1 Position=#0

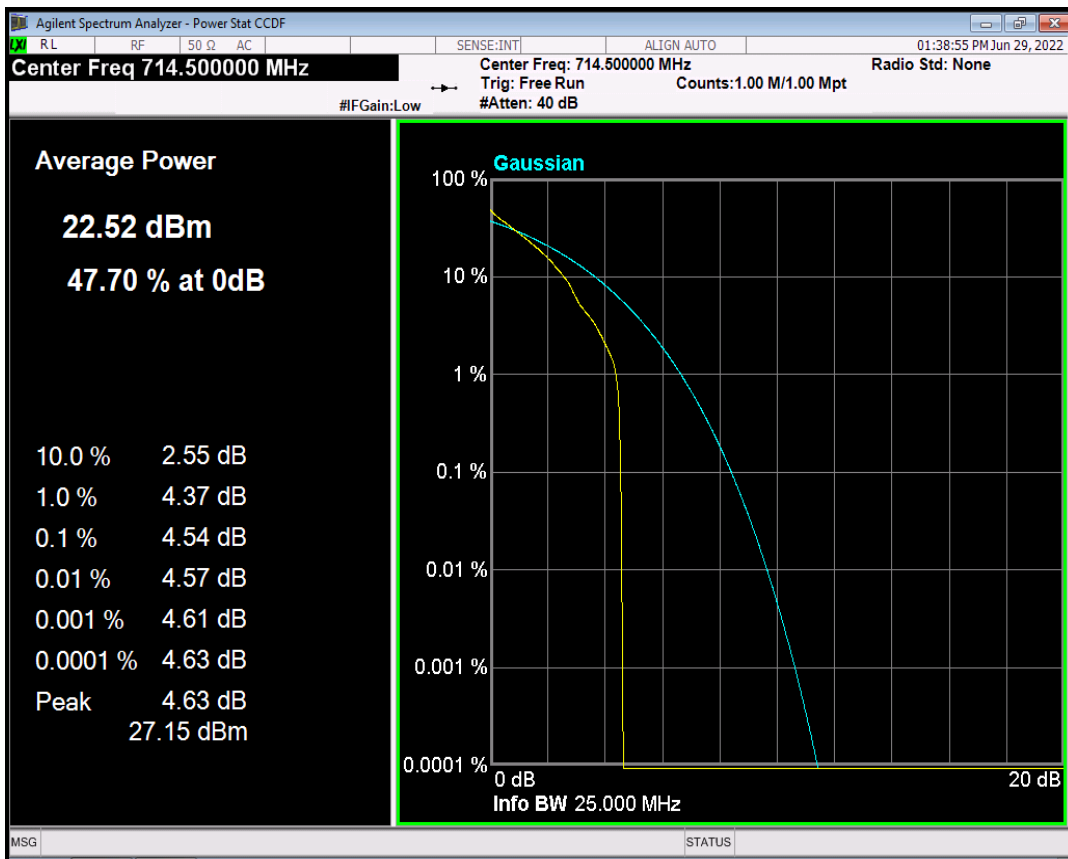


Band12 QAM16 BW=3MHz Channel=23095 RB Size=1 Position=#0

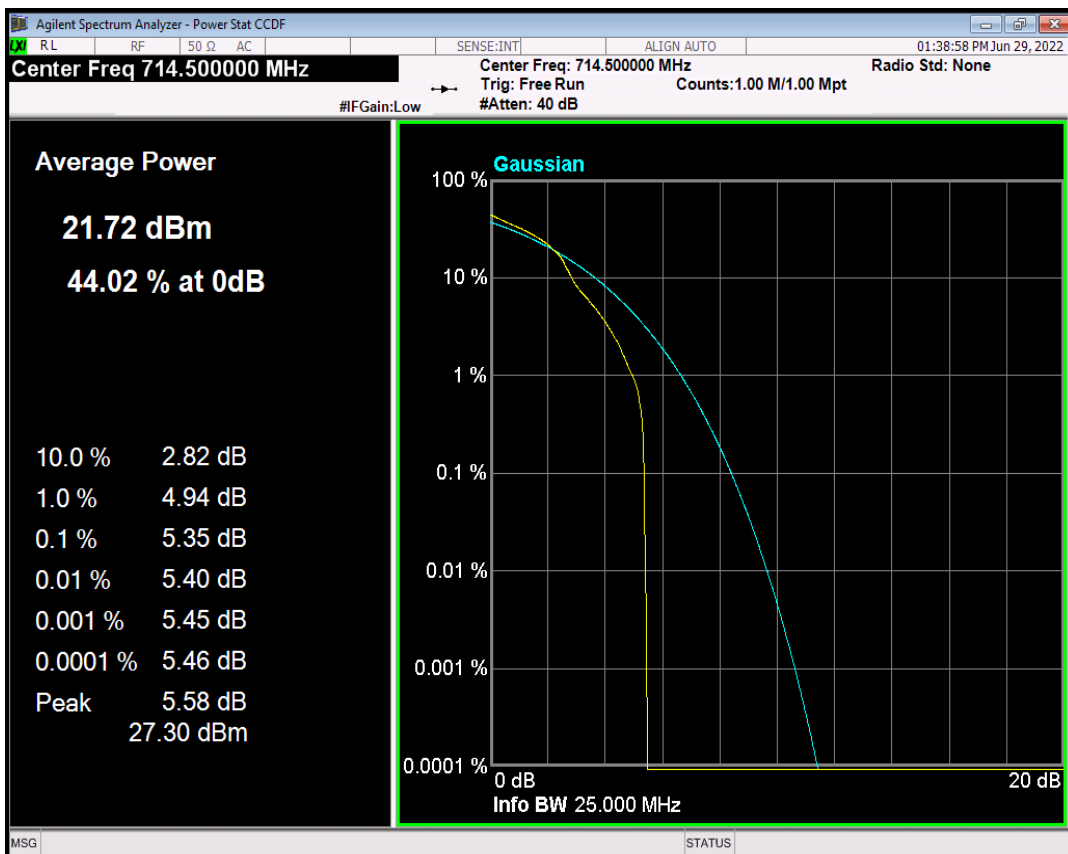




Band12 QPSK BW=3MHz Channel=23165 RB Size=1 Position=#0

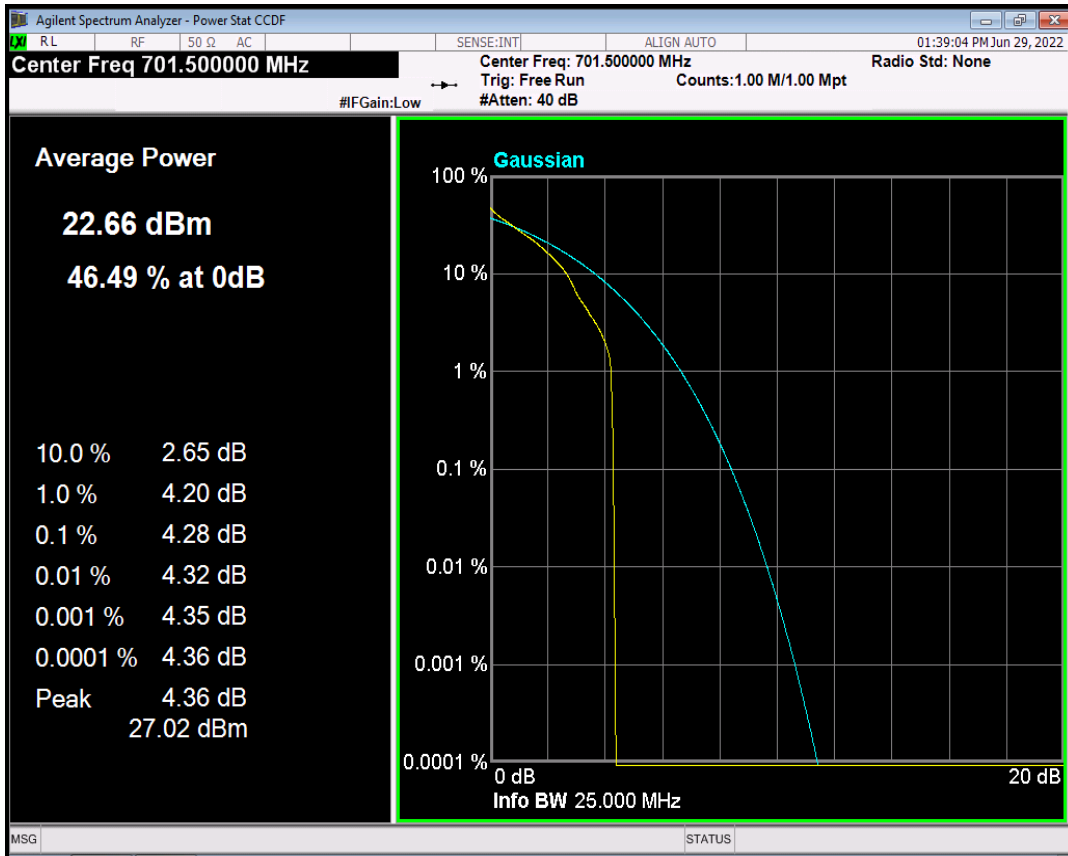


Band12 QAM16 BW=3MHz Channel=23165 RB Size=1 Position=#0

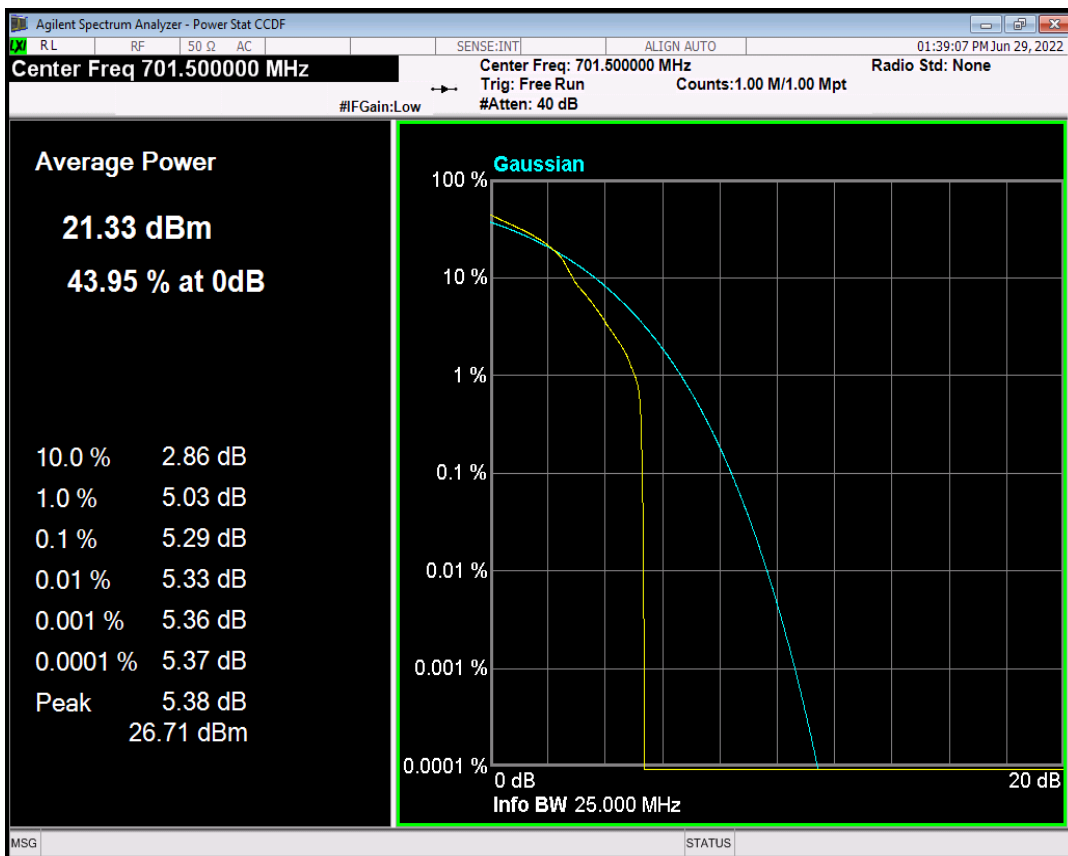




Band12 QPSK BW=5MHz Channel=23035 RB Size=1 Position=#0

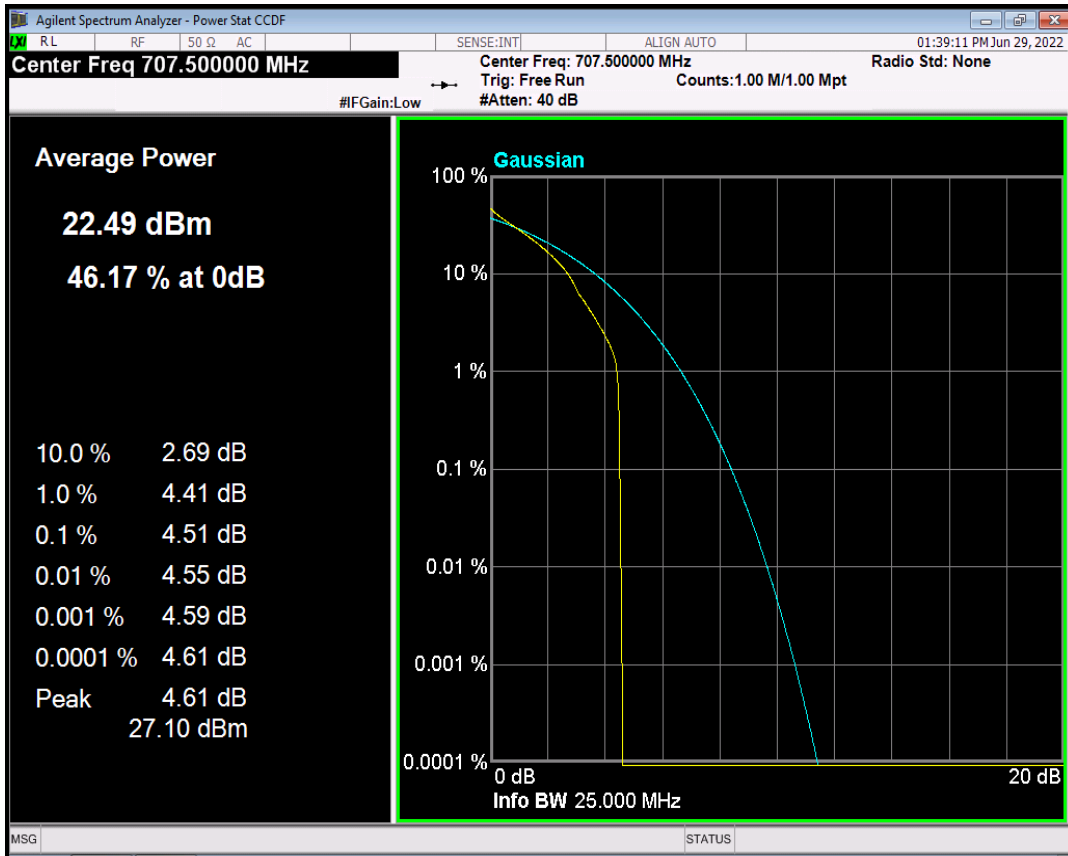


Band12 QAM16 BW=5MHz Channel=23035 RB Size=1 Position=#0

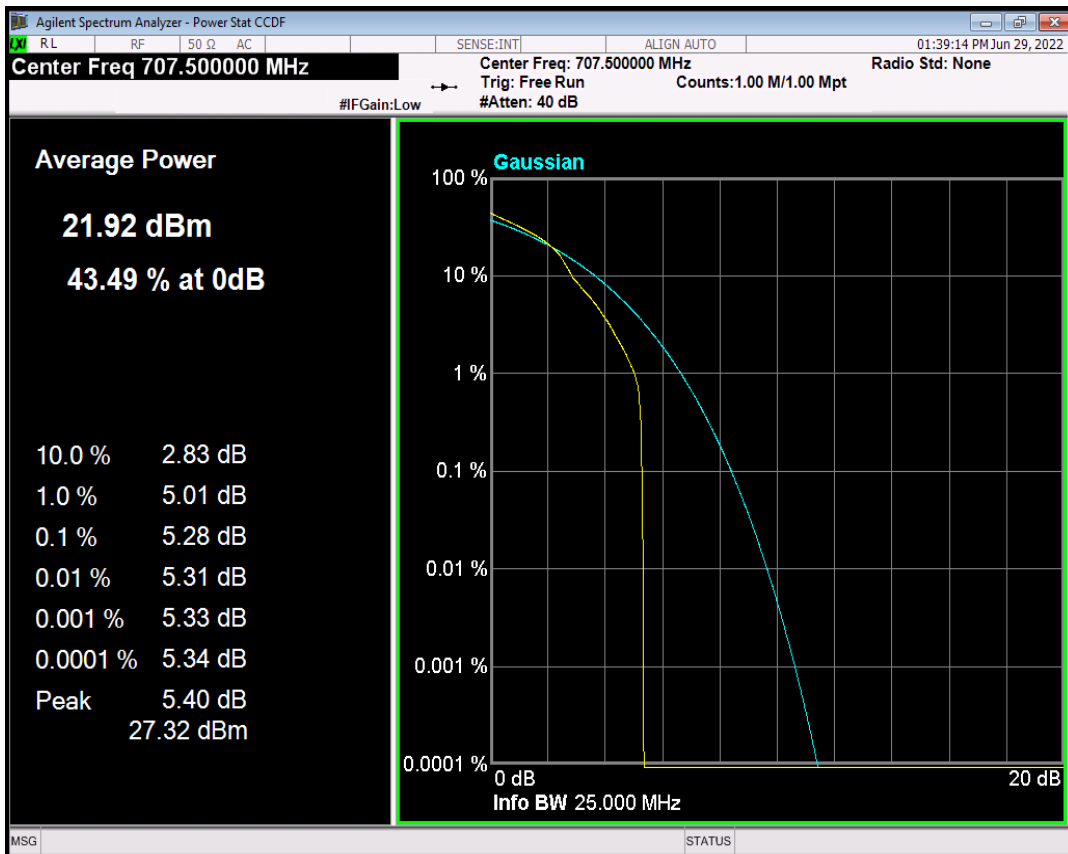




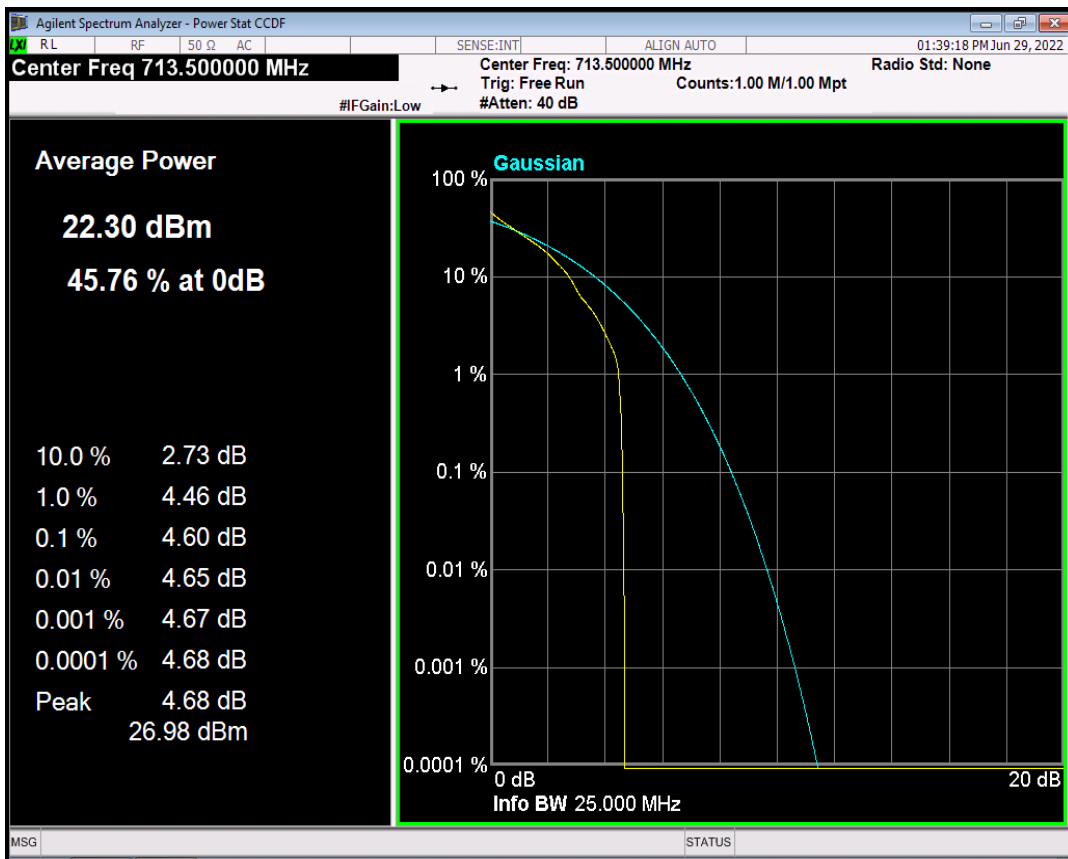
Band12 QPSK BW=5MHz Channel=23095 RB Size=1 Position=#0



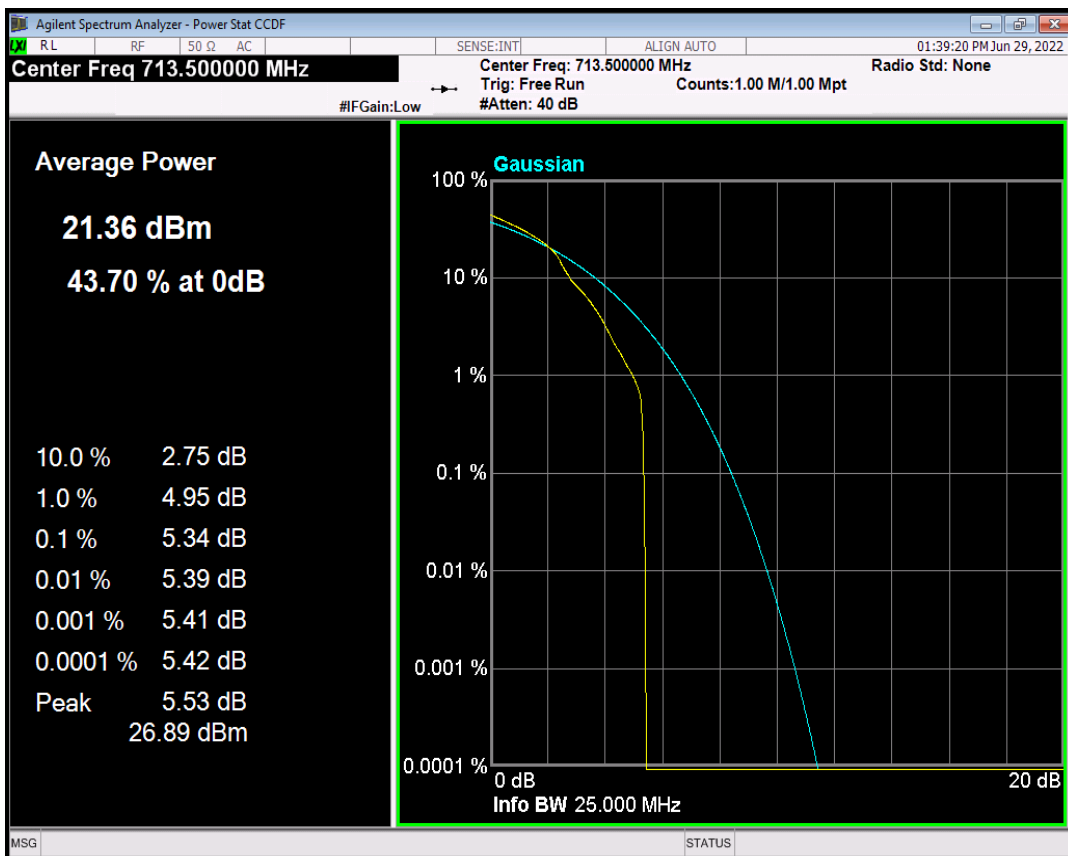
Band12 QAM16 BW=5MHz Channel=23095 RB Size=1 Position=#0



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

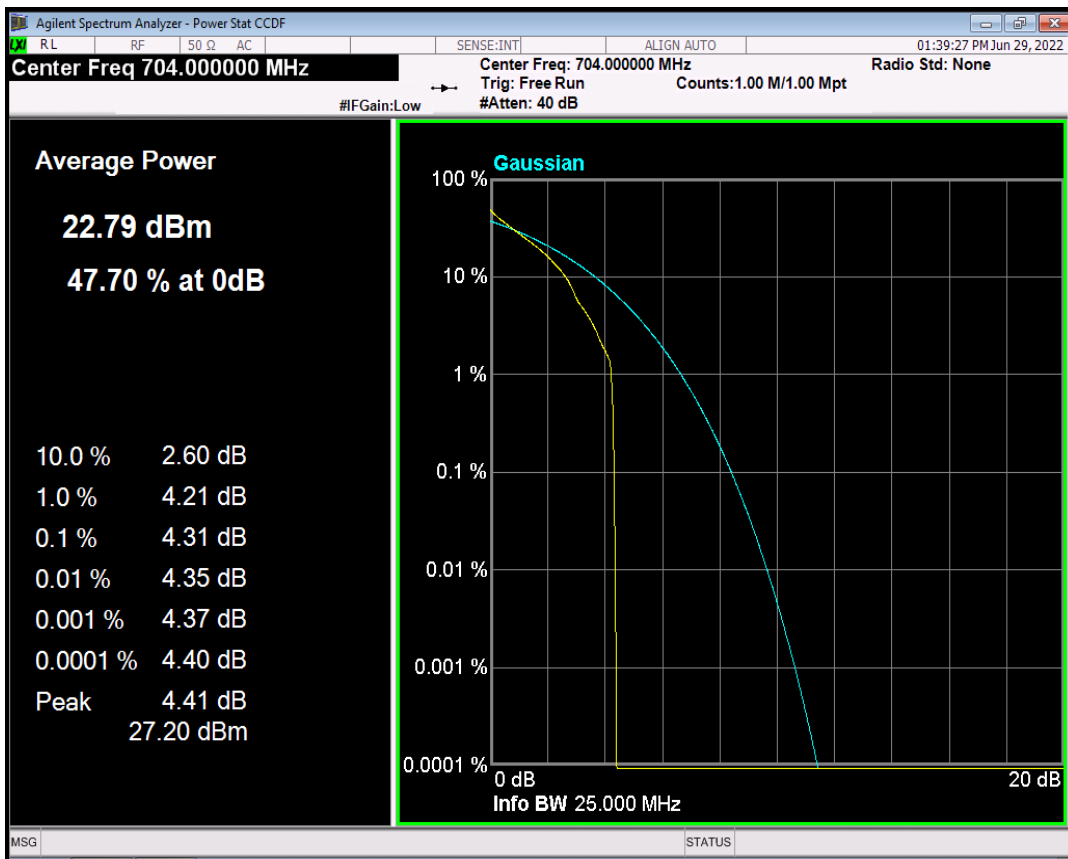


Band12 QAM16 BW=5MHz Channel=23155 RB Size=1 Position=#0

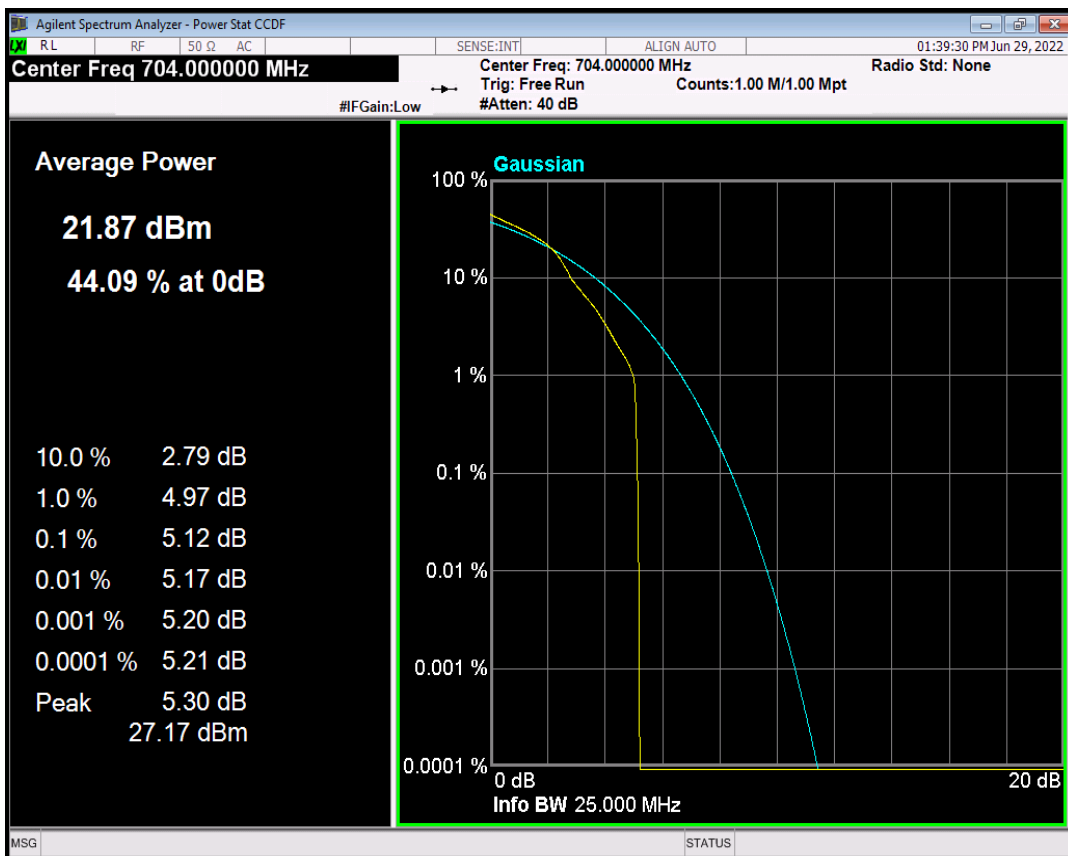




Band12 QPSK BW=10MHz Channel=23060 RB Size=1 Position=#0

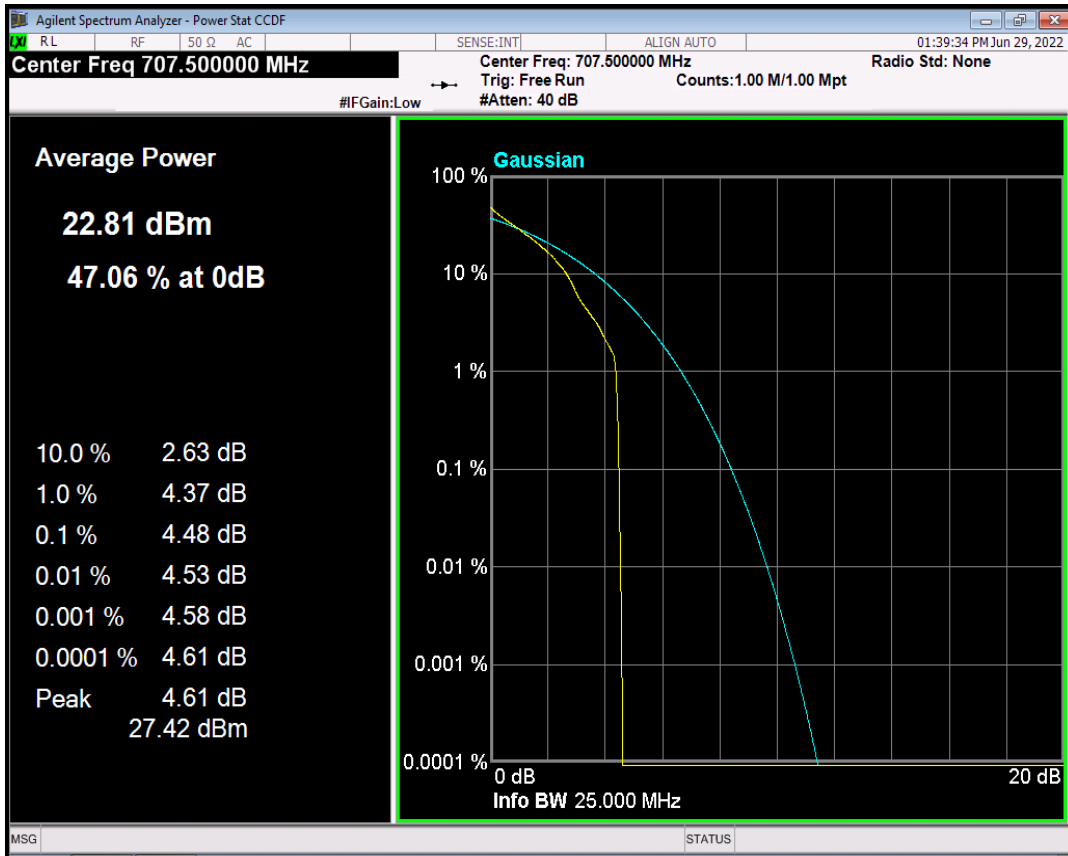


Band12 QAM16 BW=10MHz Channel=23060 RB Size=1 Position=#0

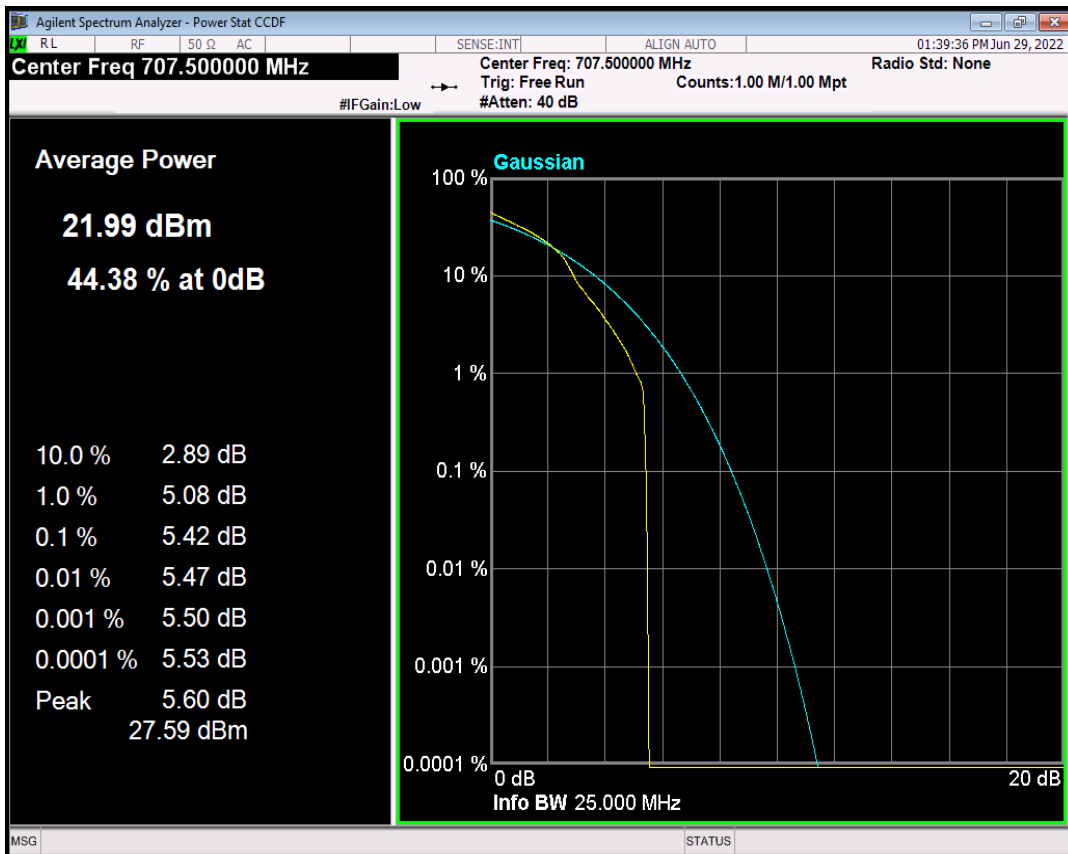




Band12 QPSK BW=10MHz Channel=23095 RB Size=1 Position=#0

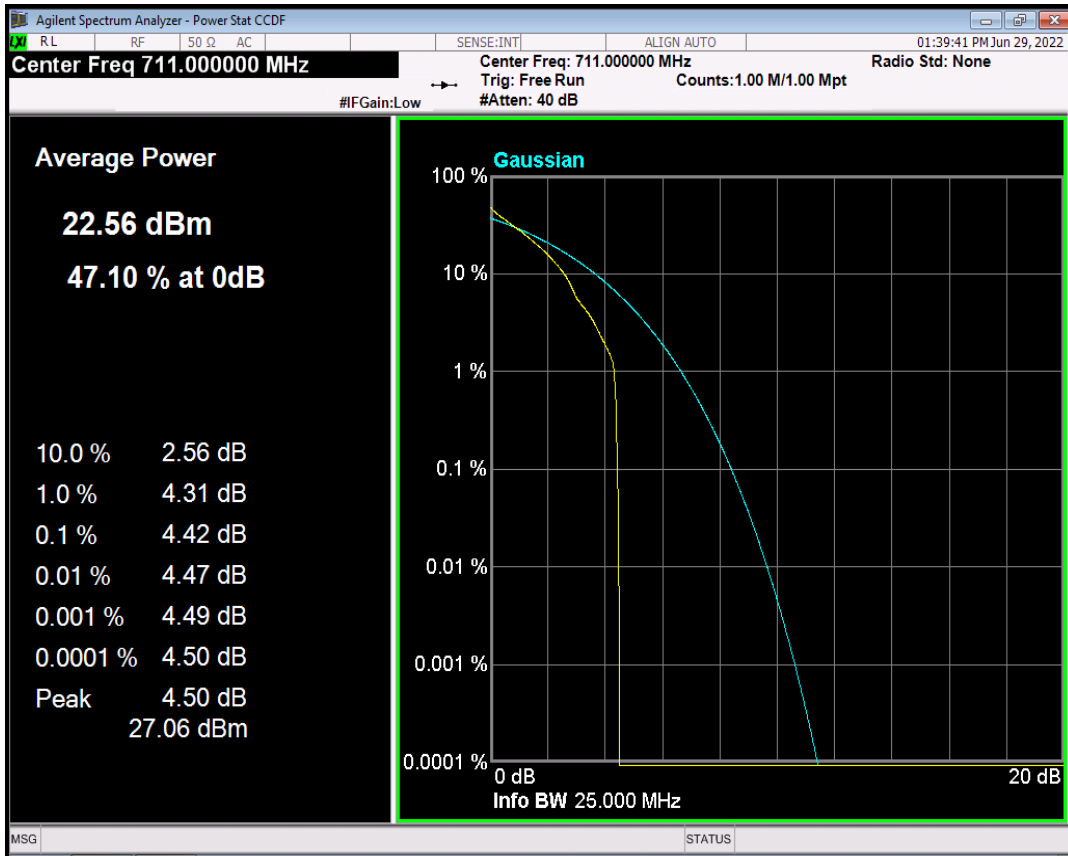


Band12 QAM16 BW=10MHz Channel=23095 RB Size=1 Position=#0

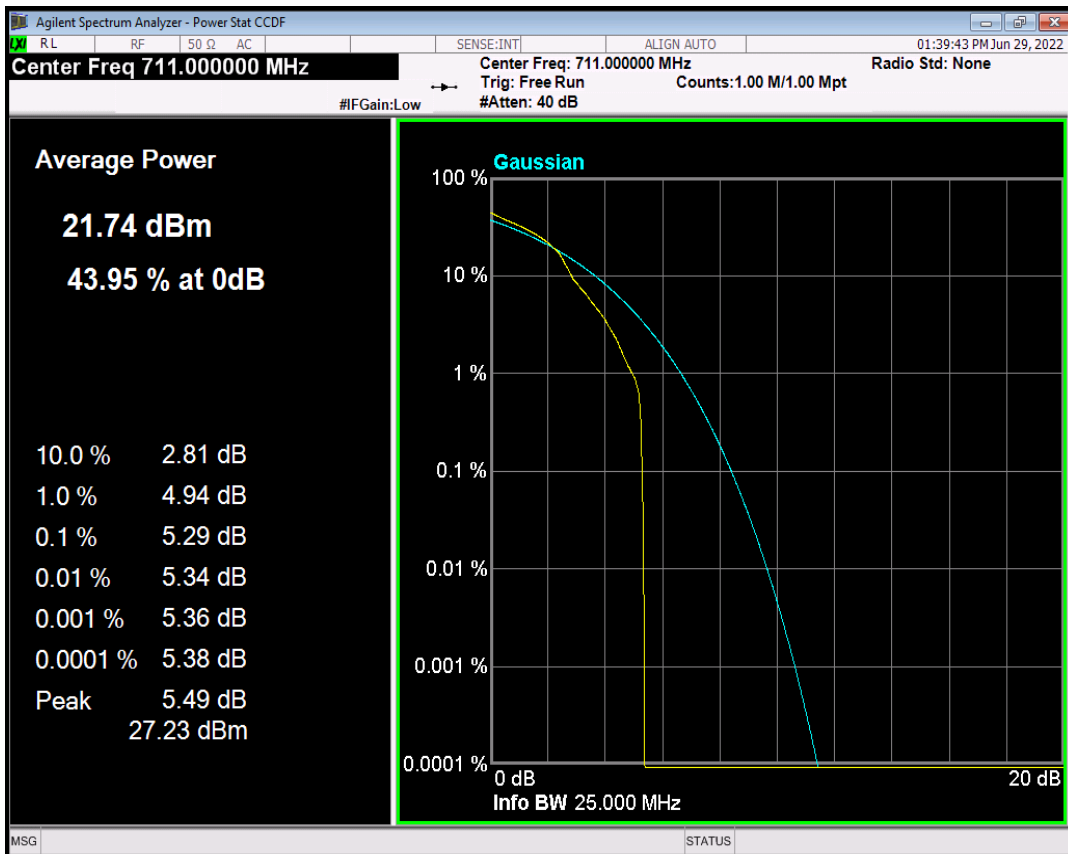




Band12 QPSK BW=10MHz Channel=23130 RB Size=1 Position=#0



Band12 QAM16 BW=10MHz Channel=23130 RB Size=1 Position=#0

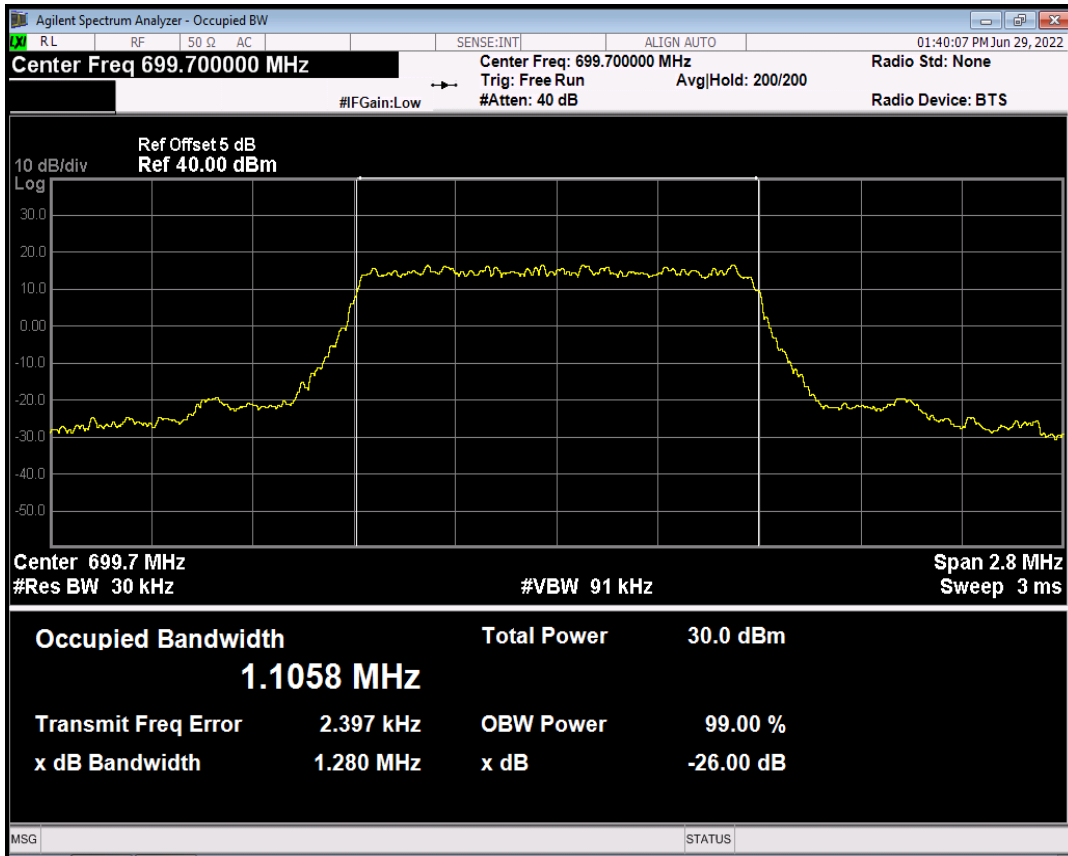


Appendix 4. Occupied bandwidth

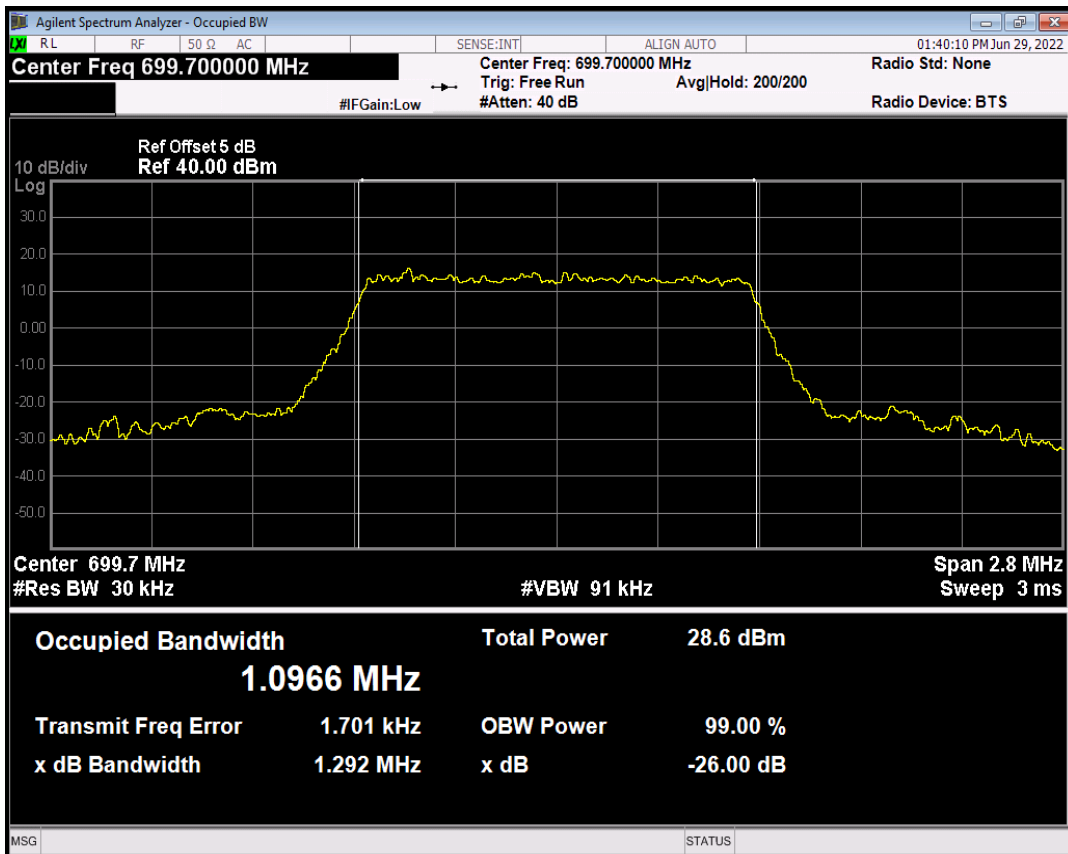
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band12	1.4	23017	6	#0	QPSK	1.106	1.280	PASS
Band12	1.4	23017	6	#0	QAM16	1.097	1.292	PASS
Band12	1.4	23095	6	#0	QPSK	1.097	1.290	PASS
Band12	1.4	23095	6	#0	QAM16	1.100	1.293	PASS
Band12	1.4	23173	6	#0	QPSK	1.096	1.293	PASS
Band12	1.4	23173	6	#0	QAM16	1.091	1.296	PASS
Band12	3	23025	15	#0	QPSK	2.705	2.989	PASS
Band12	3	23025	15	#0	QAM16	2.716	2.974	PASS
Band12	3	23095	15	#0	QPSK	2.702	3.000	PASS
Band12	3	23095	15	#0	QAM16	2.697	2.965	PASS
Band12	3	23165	15	#0	QPSK	2.704	2.965	PASS
Band12	3	23165	15	#0	QAM16	2.703	2.998	PASS
Band12	5	23035	25	#0	QPSK	4.538	5.016	PASS
Band12	5	23035	25	#0	QAM16	4.508	4.936	PASS
Band12	5	23095	25	#0	QPSK	4.509	4.970	PASS
Band12	5	23095	25	#0	QAM16	4.508	4.943	PASS
Band12	5	23155	25	#0	QPSK	4.500	4.924	PASS
Band12	5	23155	25	#0	QAM16	4.501	4.954	PASS
Band12	10	23060	50	#0	QPSK	8.954	9.778	PASS
Band12	10	23060	50	#0	QAM16	8.960	9.809	PASS
Band12	10	23095	50	#0	QPSK	8.930	9.781	PASS
Band12	10	23095	50	#0	QAM16	8.975	9.627	PASS
Band12	10	23130	50	#0	QPSK	8.963	9.810	PASS
Band12	10	23130	50	#0	QAM16	9.011	9.899	PASS



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

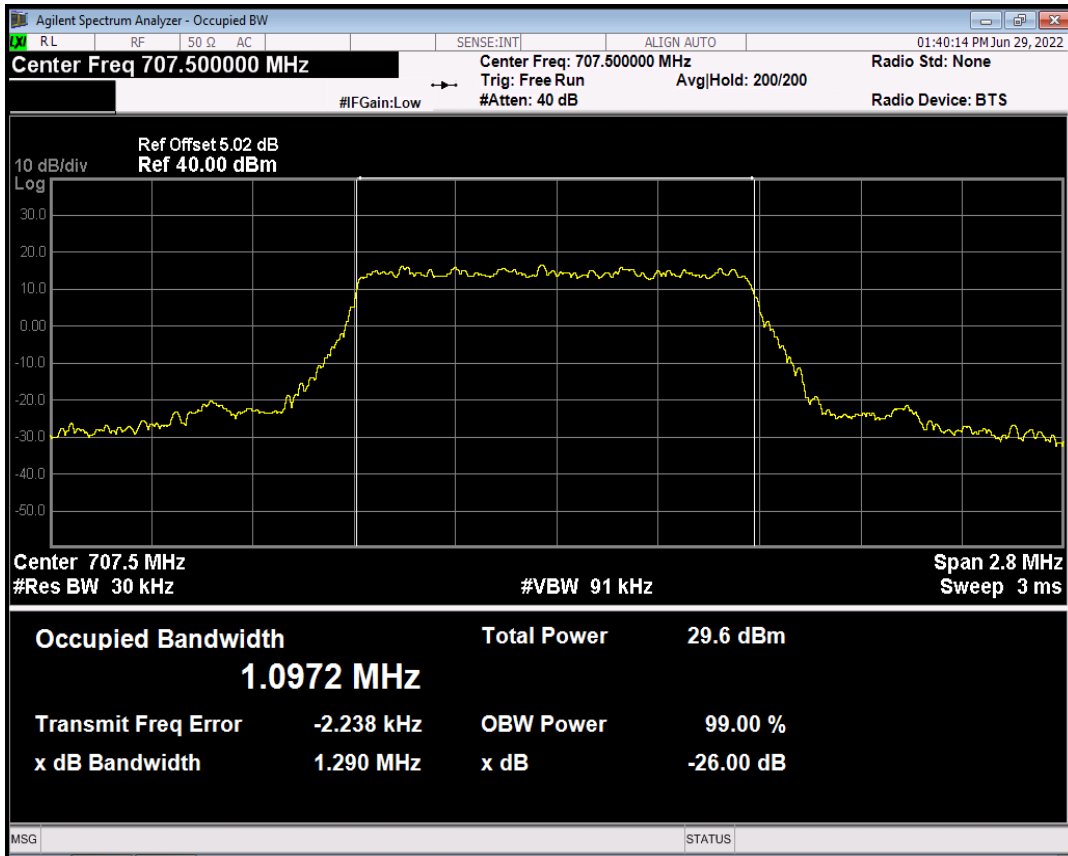


Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=6 Position=#0

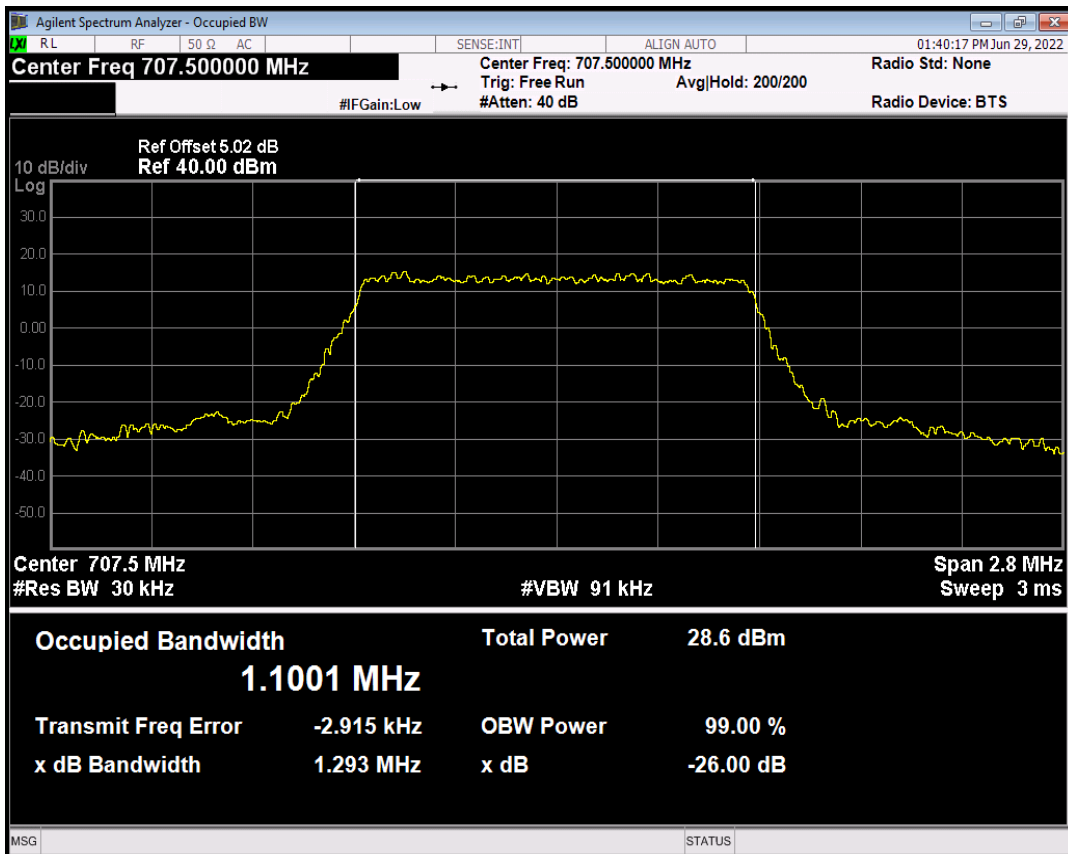




Band12 QPSK BW=1.4MHz Channel=23095 RB Size=6 Position=#0

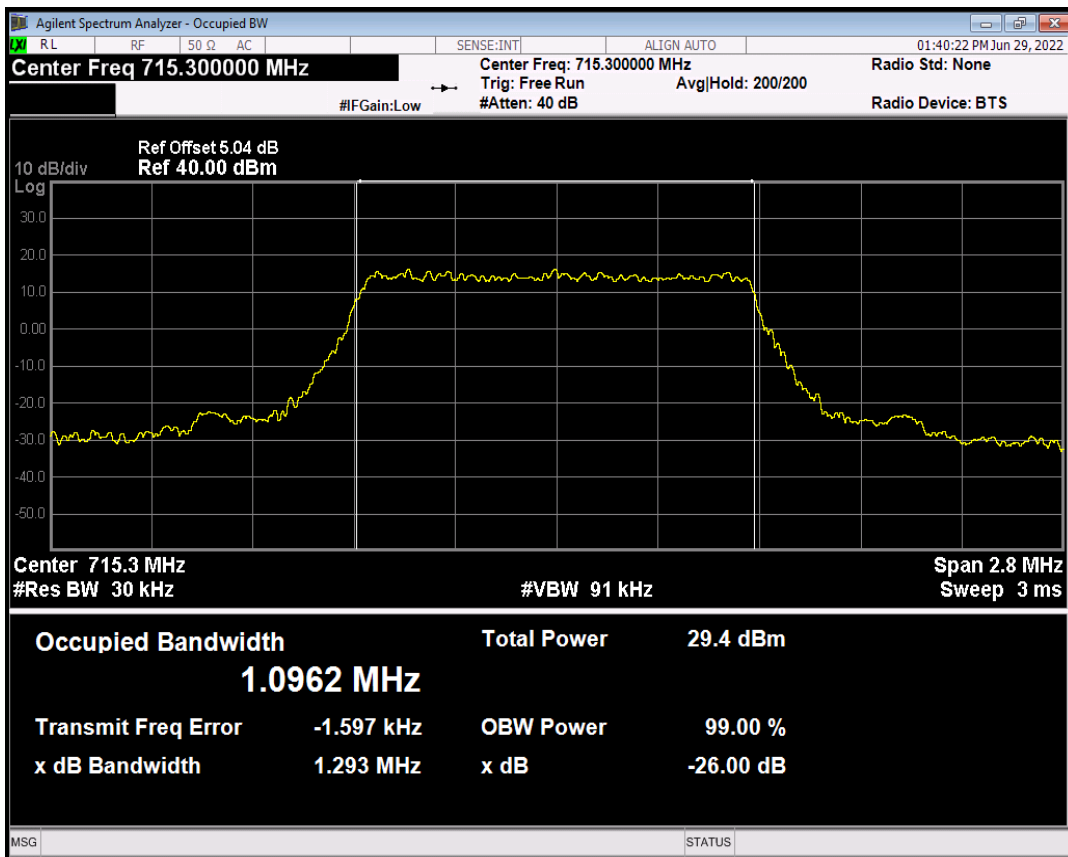


Band12 QAM16 BW=1.4MHz Channel=23095 RB Size=6 Position=#0

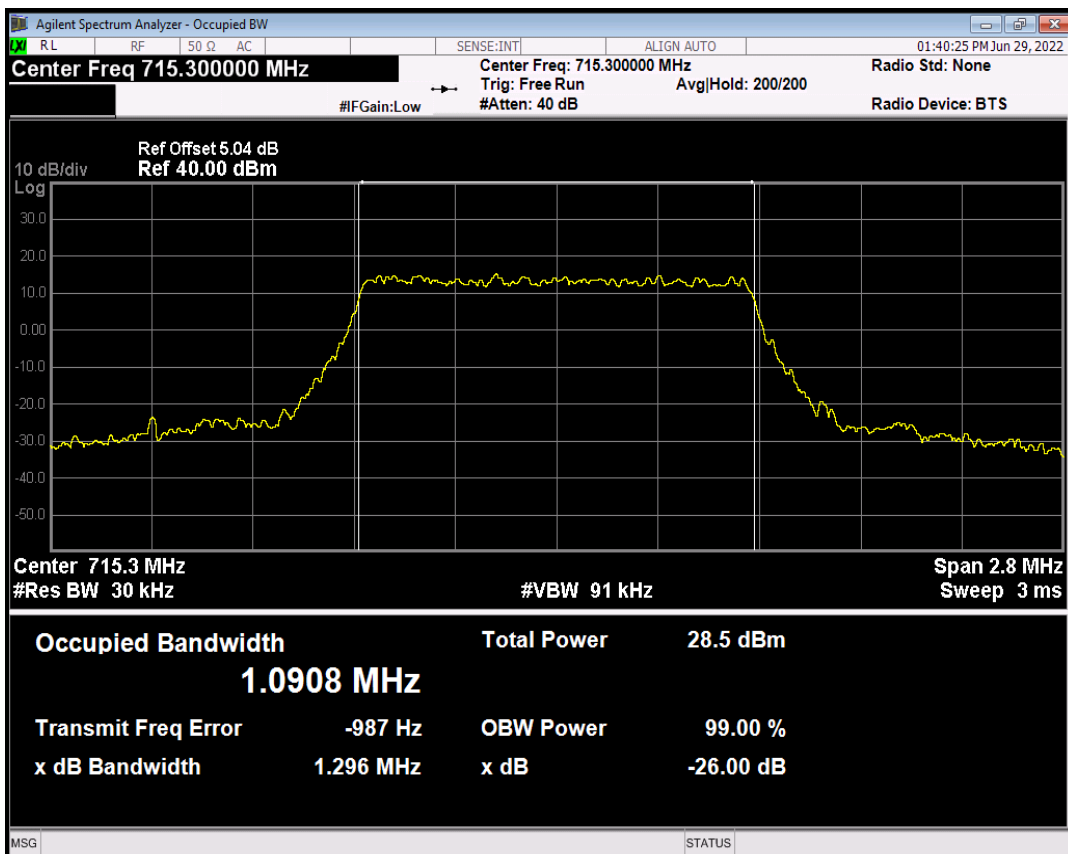




Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0

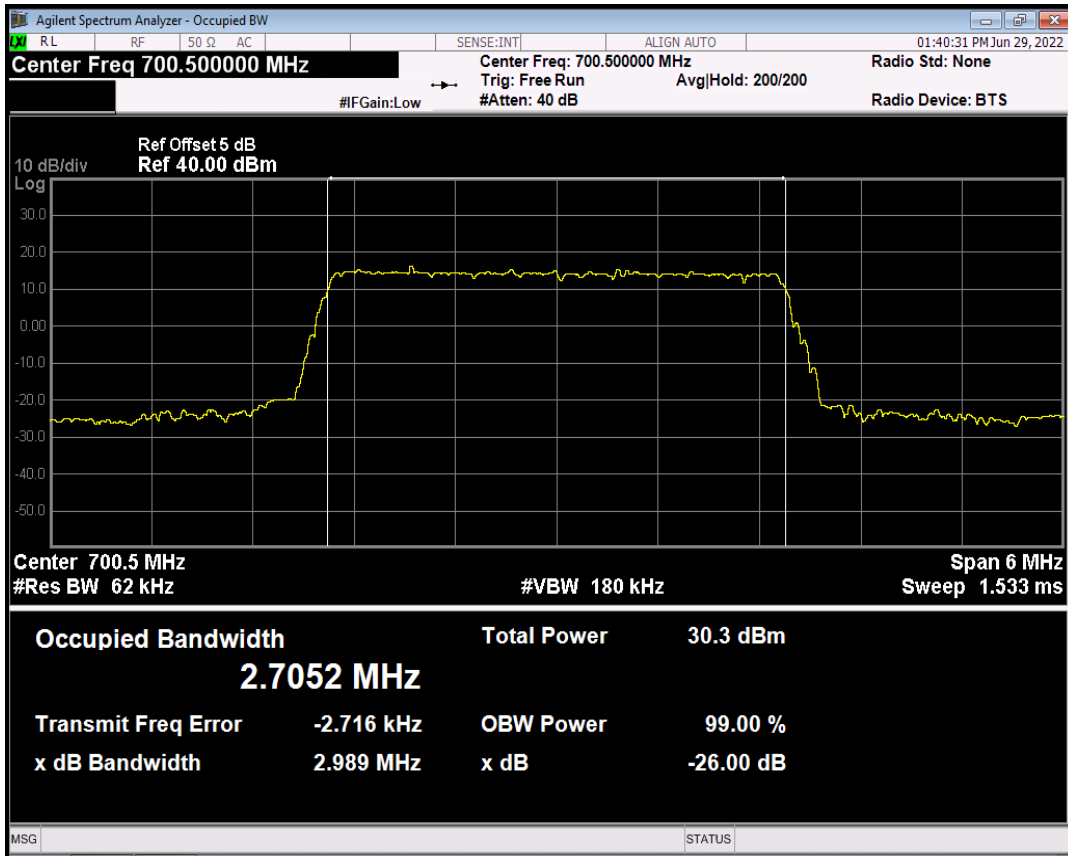


Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=6 Position=#0

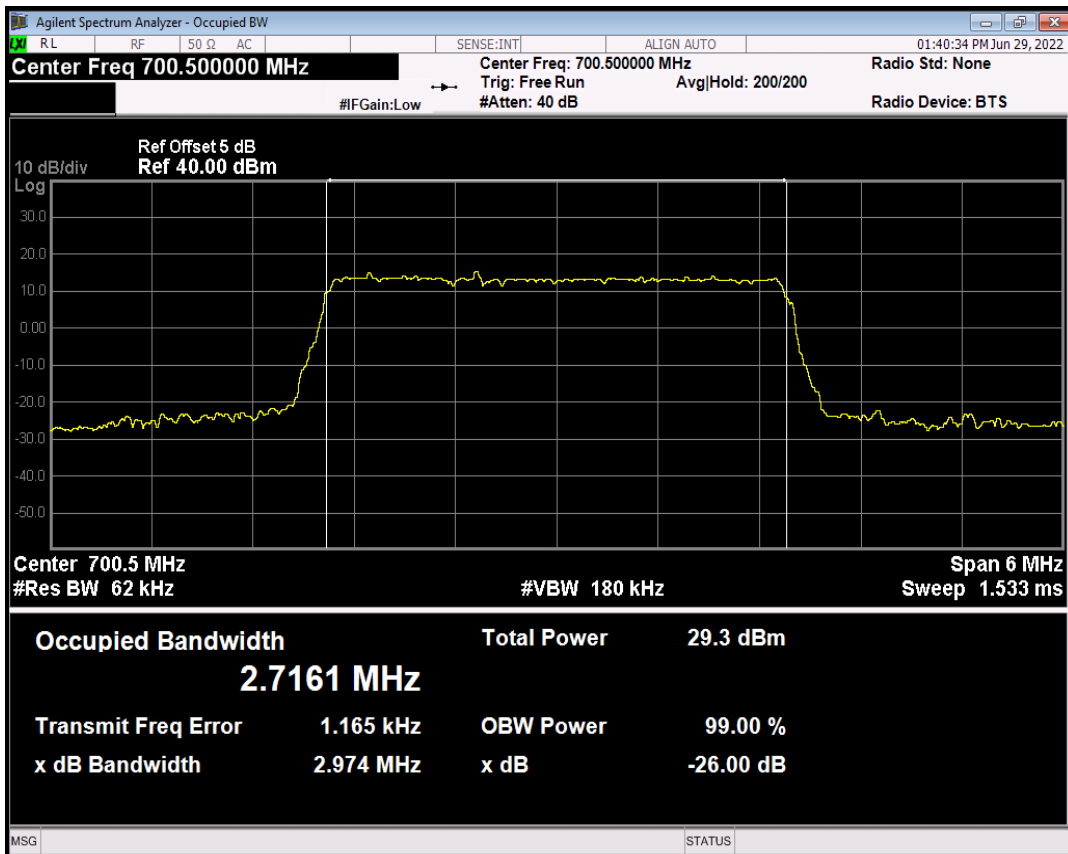




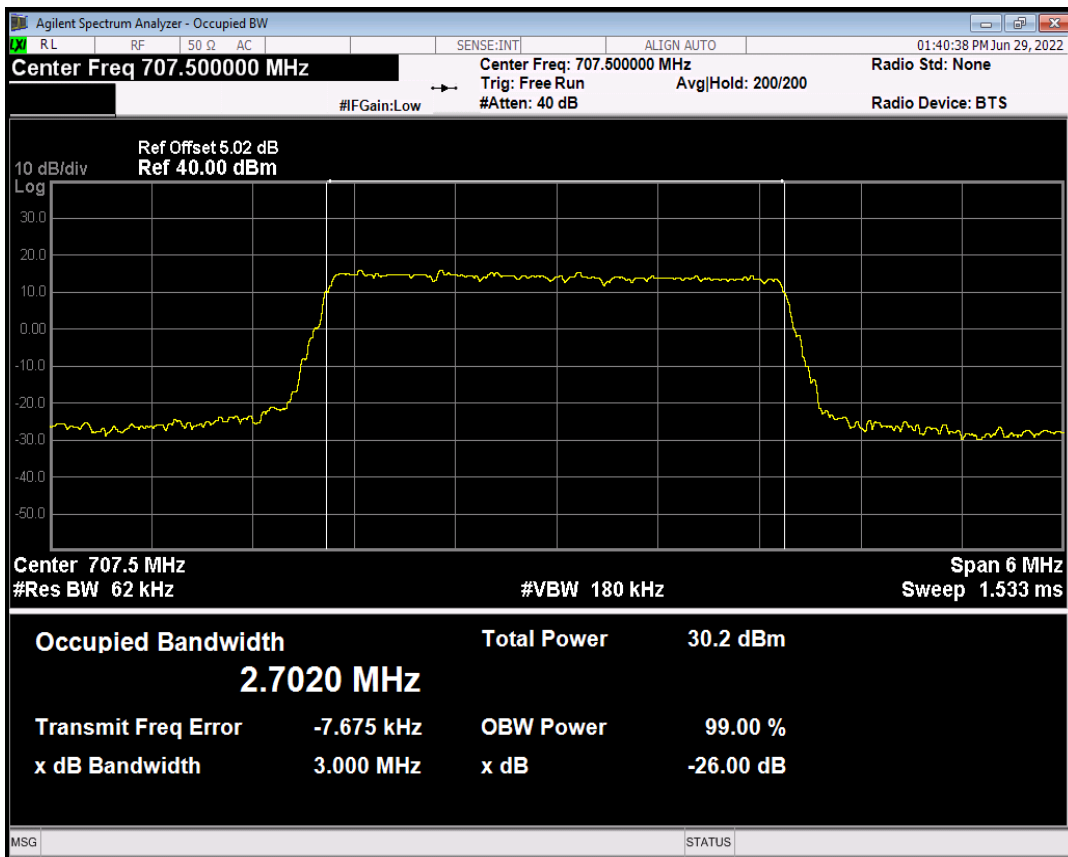
Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0



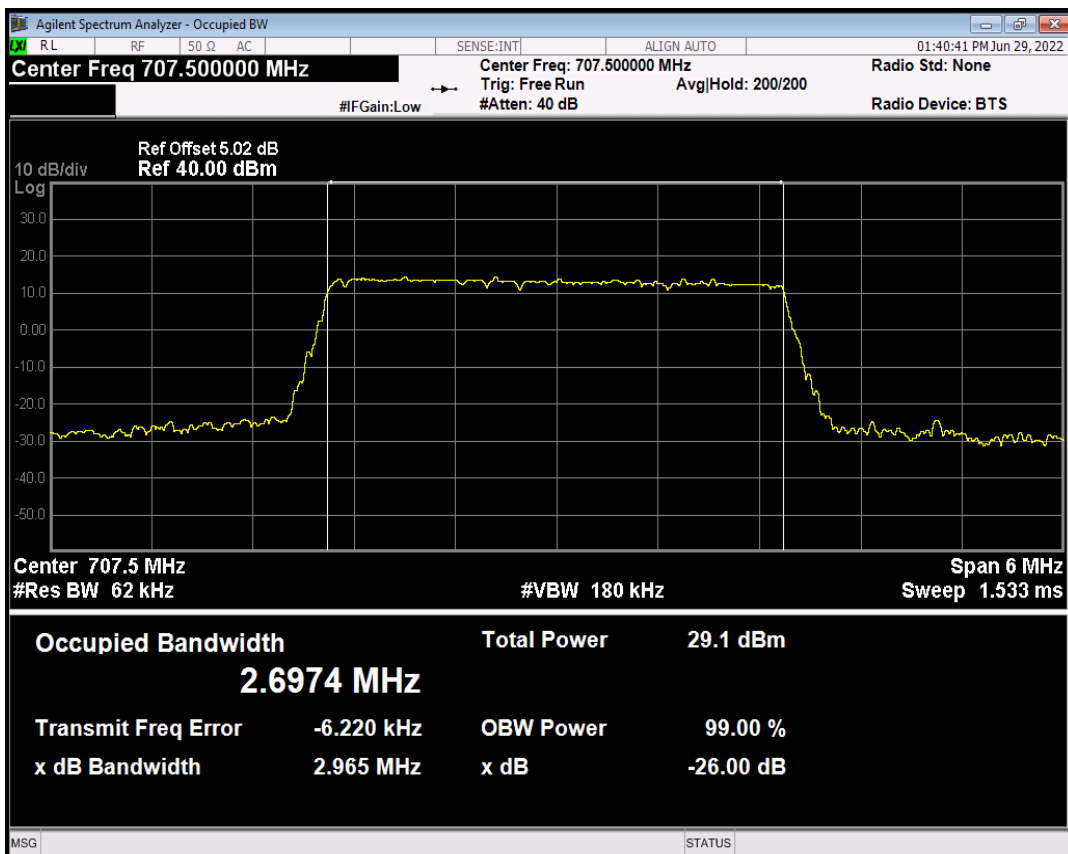
Band12 QAM16 BW=3MHz Channel=23025 RB Size=15 Position=#0



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

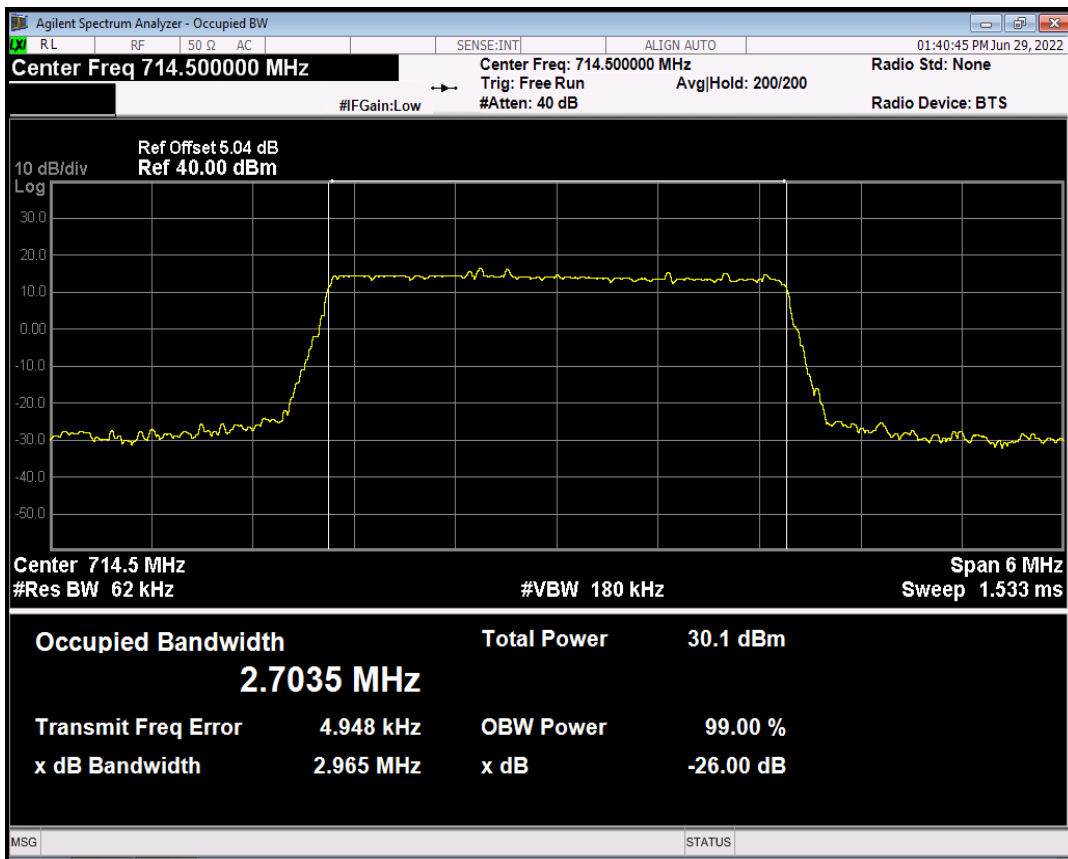


Band12 QAM16 BW=3MHz Channel=23095 RB Size=15 Position=#0

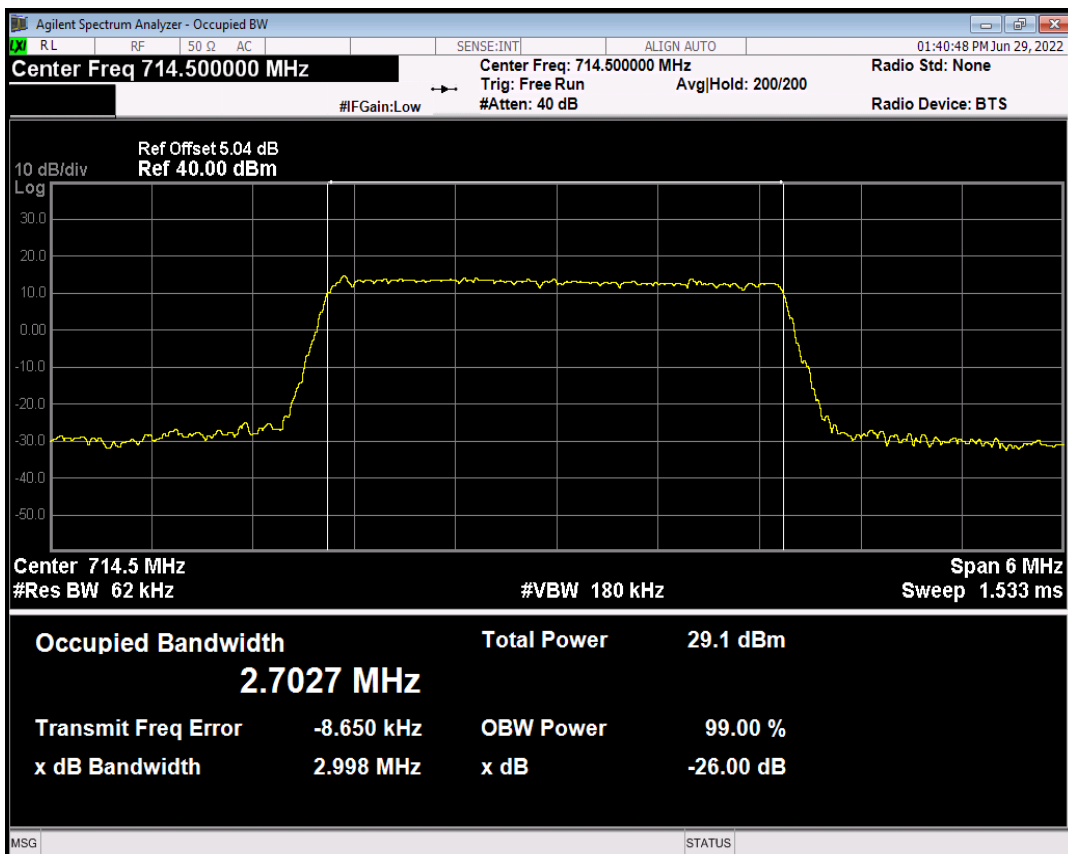




Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0

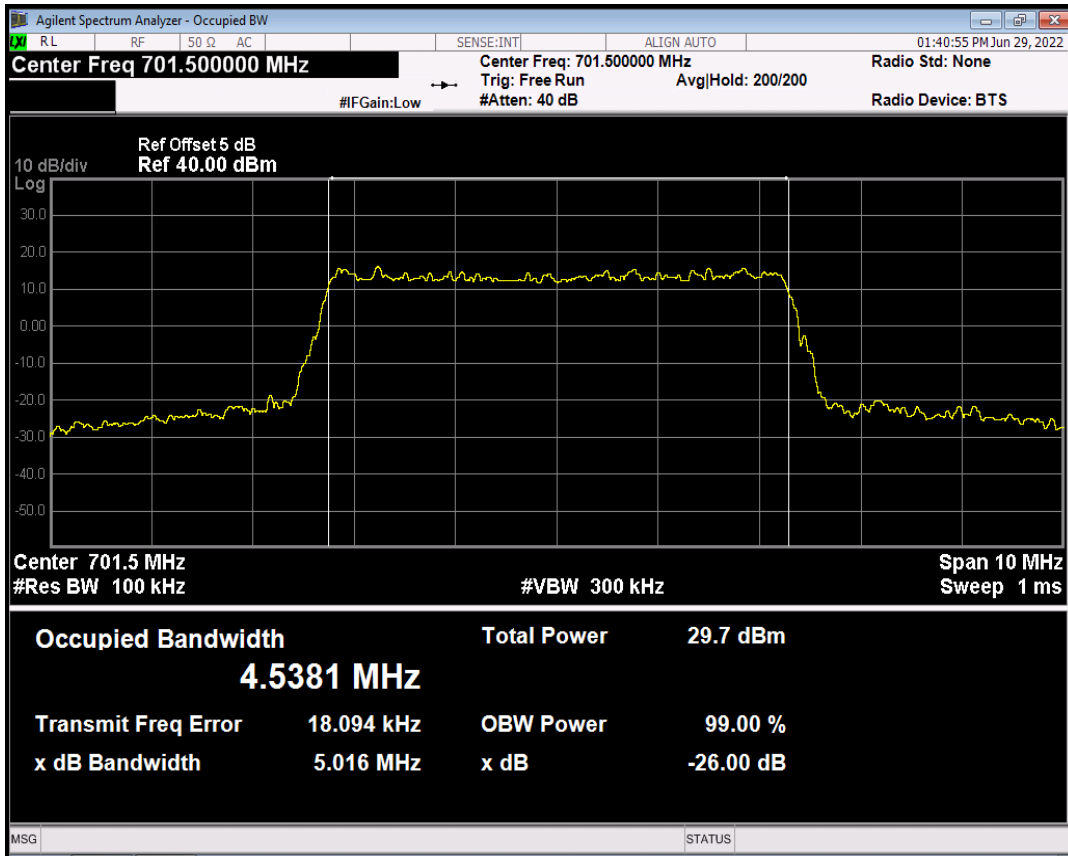


Band12 QAM16 BW=3MHz Channel=23165 RB Size=15 Position=#0

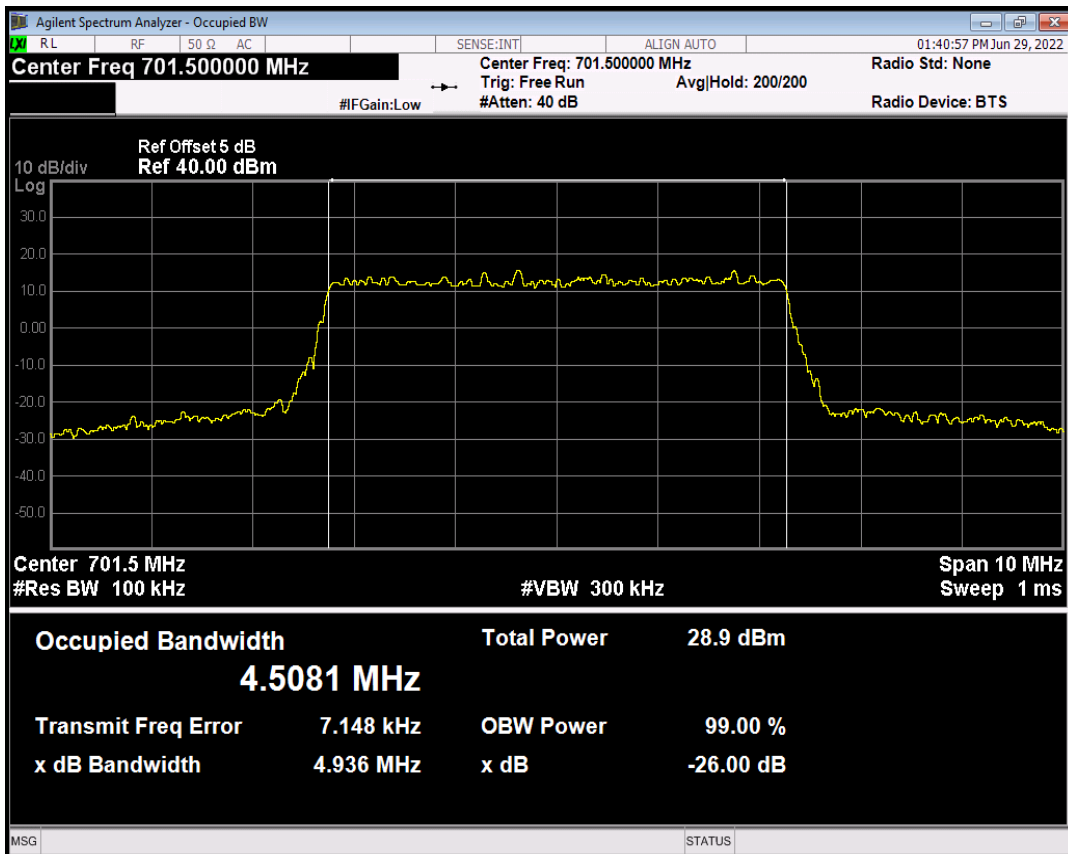




Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0

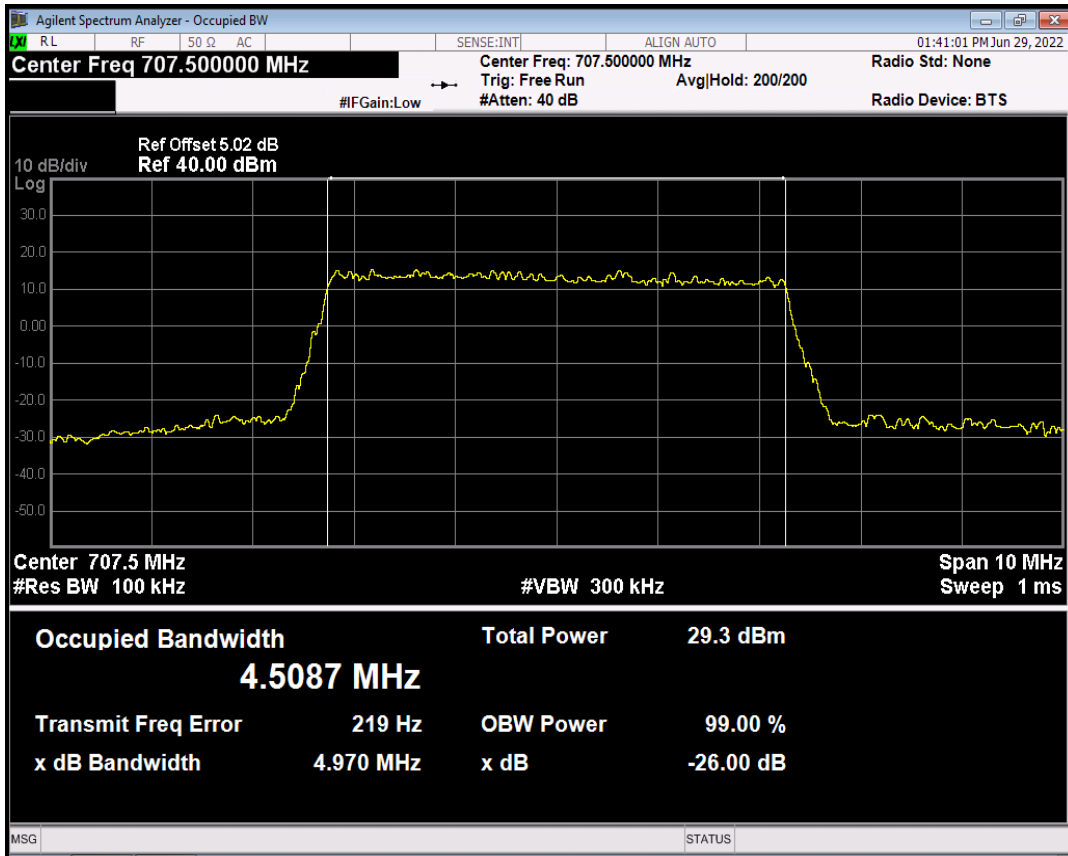


Band12 QAM16 BW=5MHz Channel=23035 RB Size=25 Position=#0

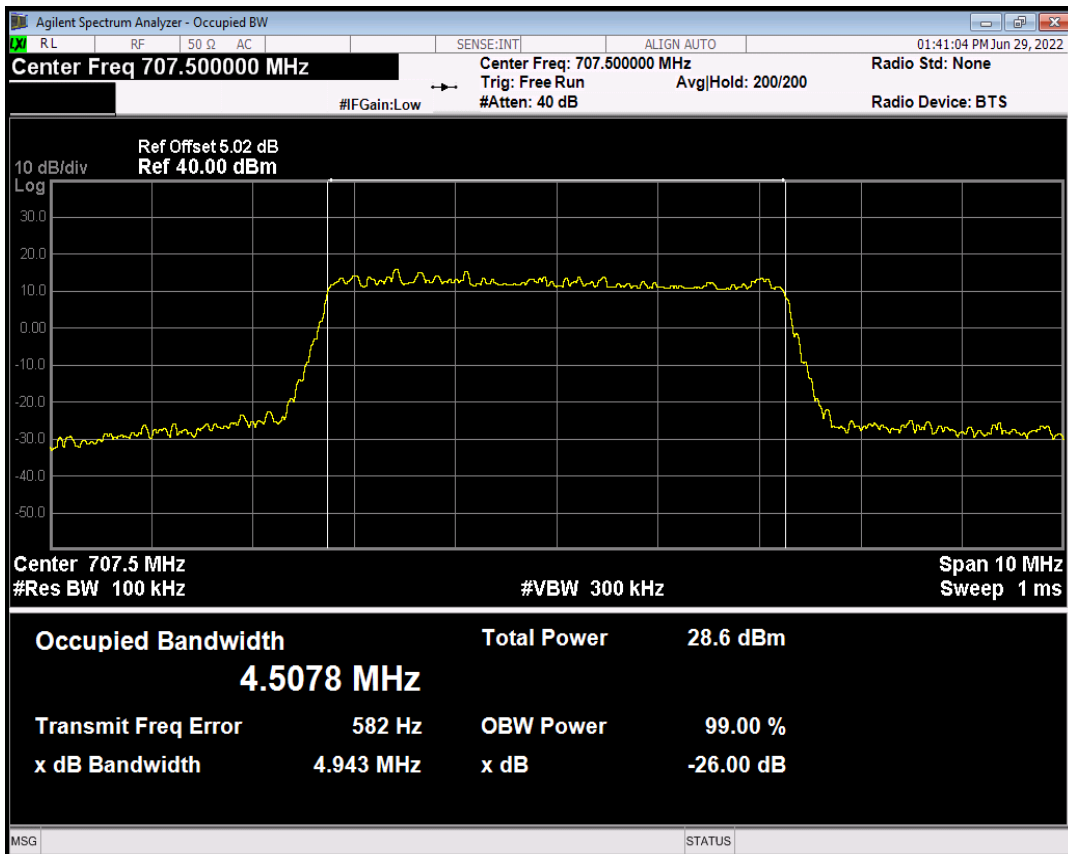




Band12 QPSK BW=5MHz Channel=23095 RB Size=25 Position=#0

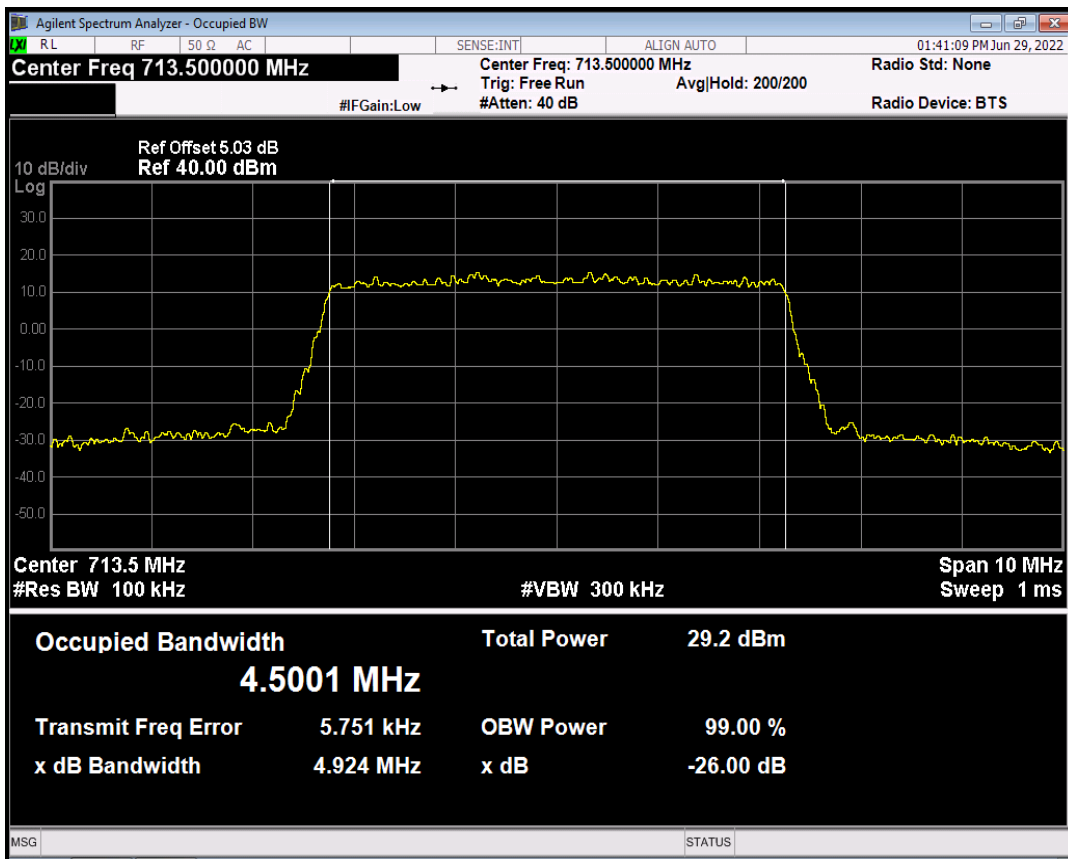


Band12 QAM16 BW=5MHz Channel=23095 RB Size=25 Position=#0

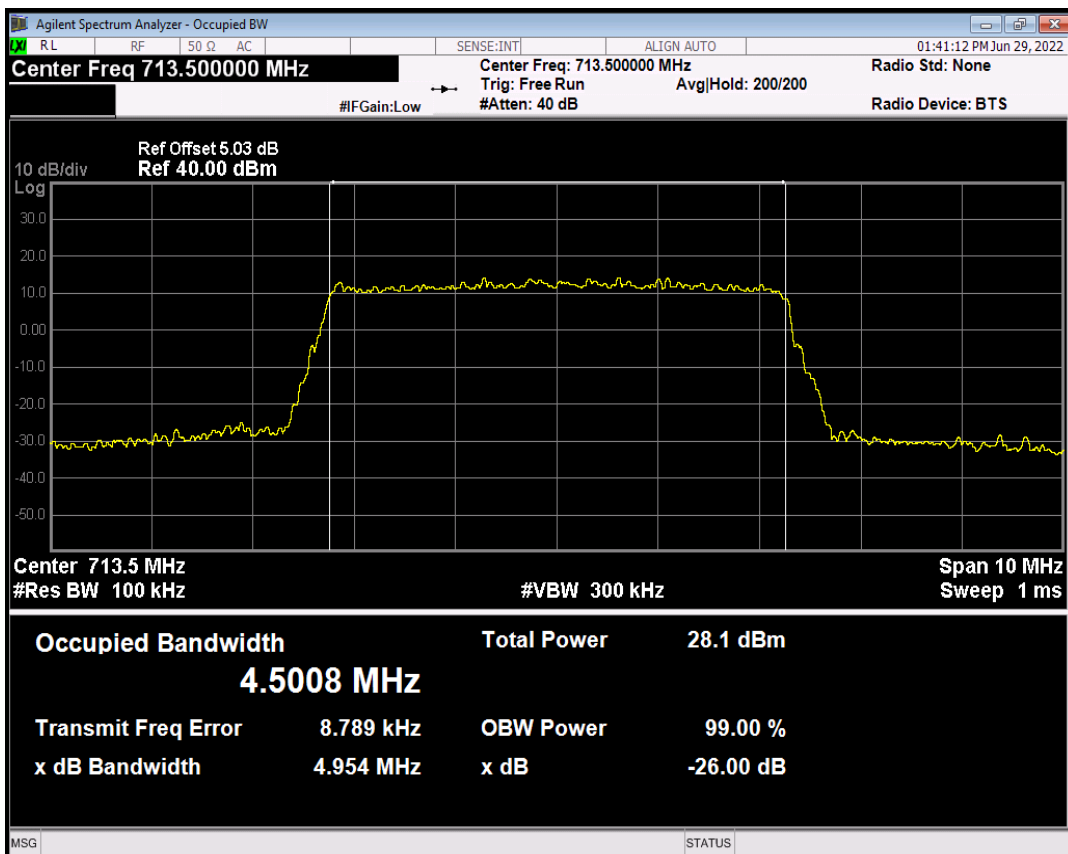




Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0

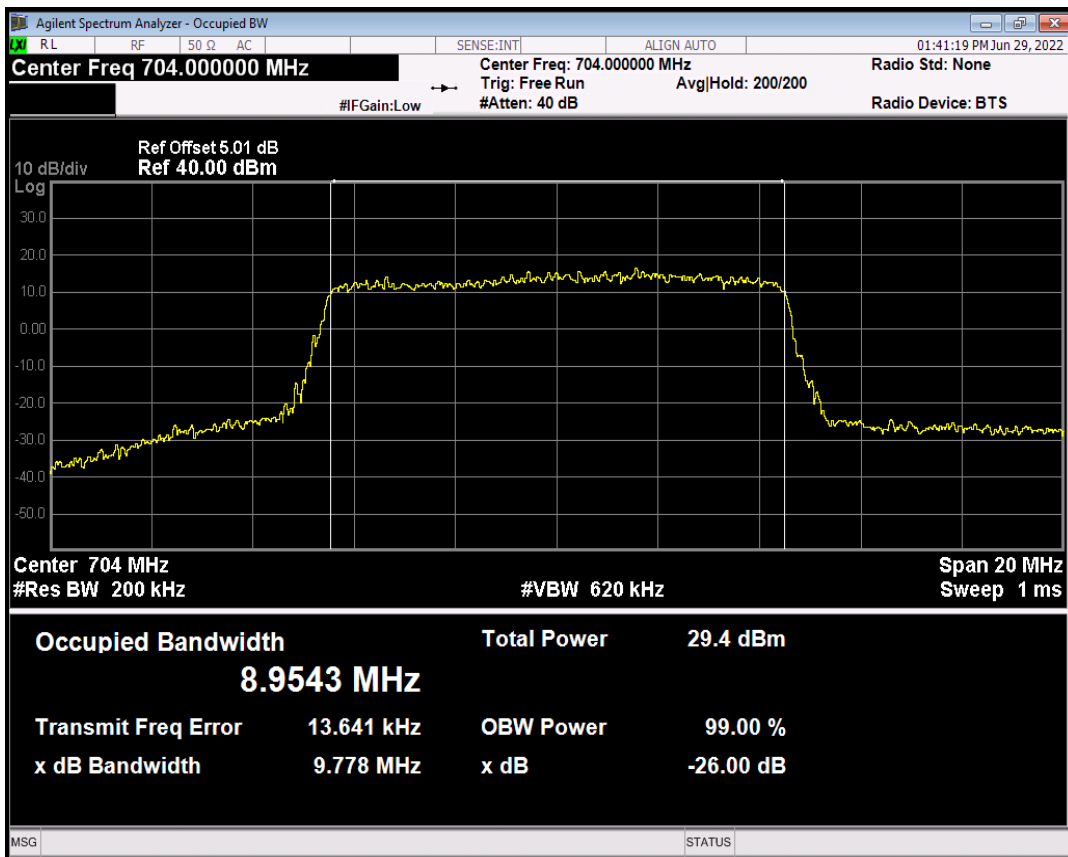


Band12 QAM16 BW=5MHz Channel=23155 RB Size=25 Position=#0

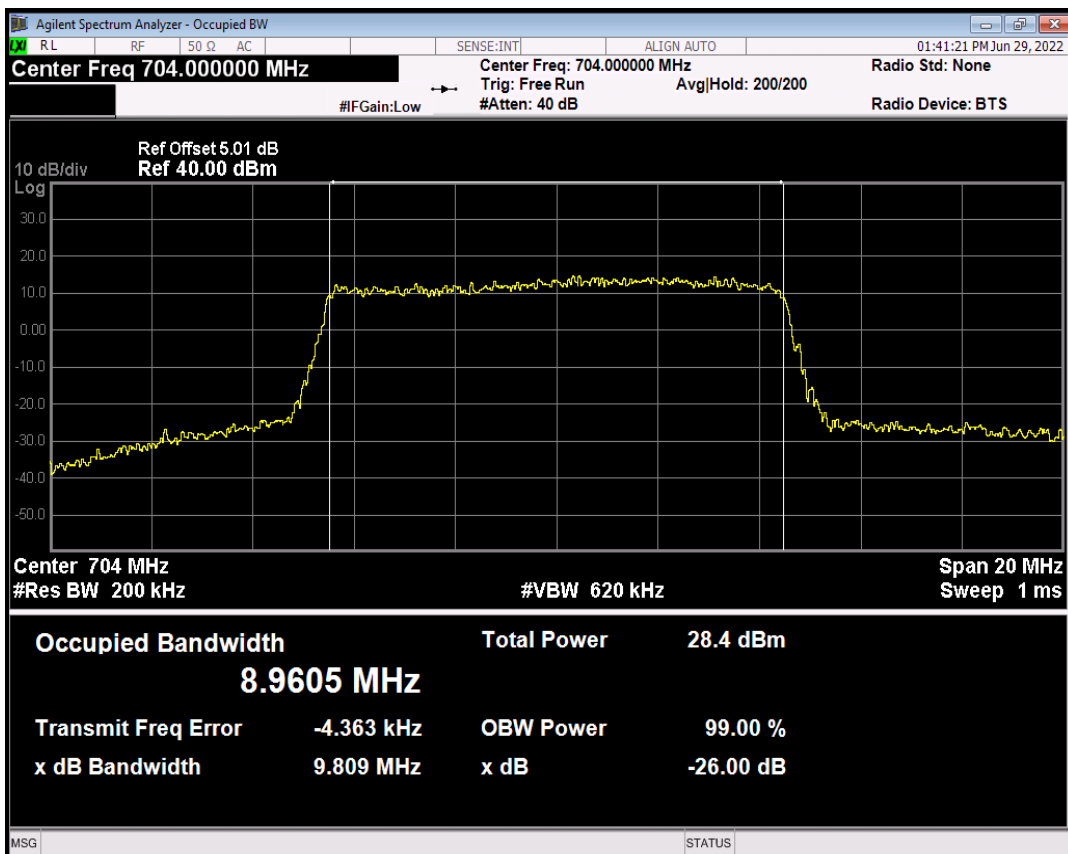




Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0

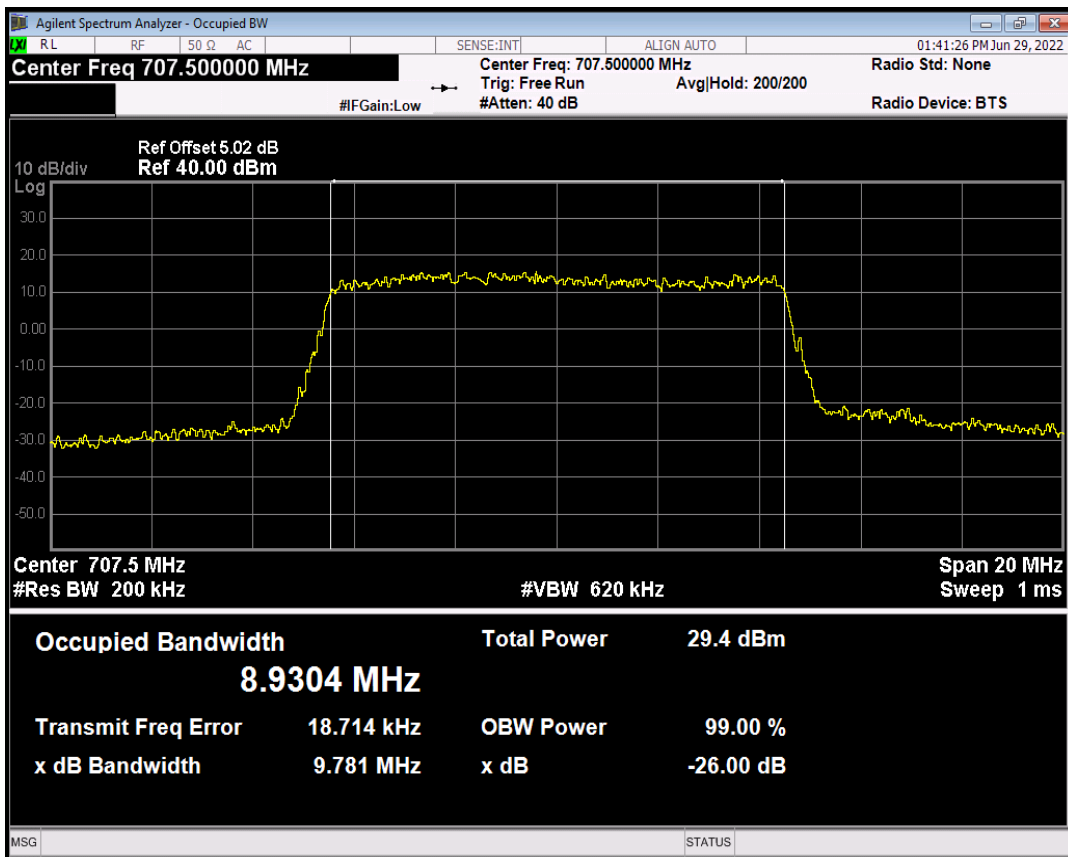


Band12 QAM16 BW=10MHz Channel=23060 RB Size=50 Position=#0

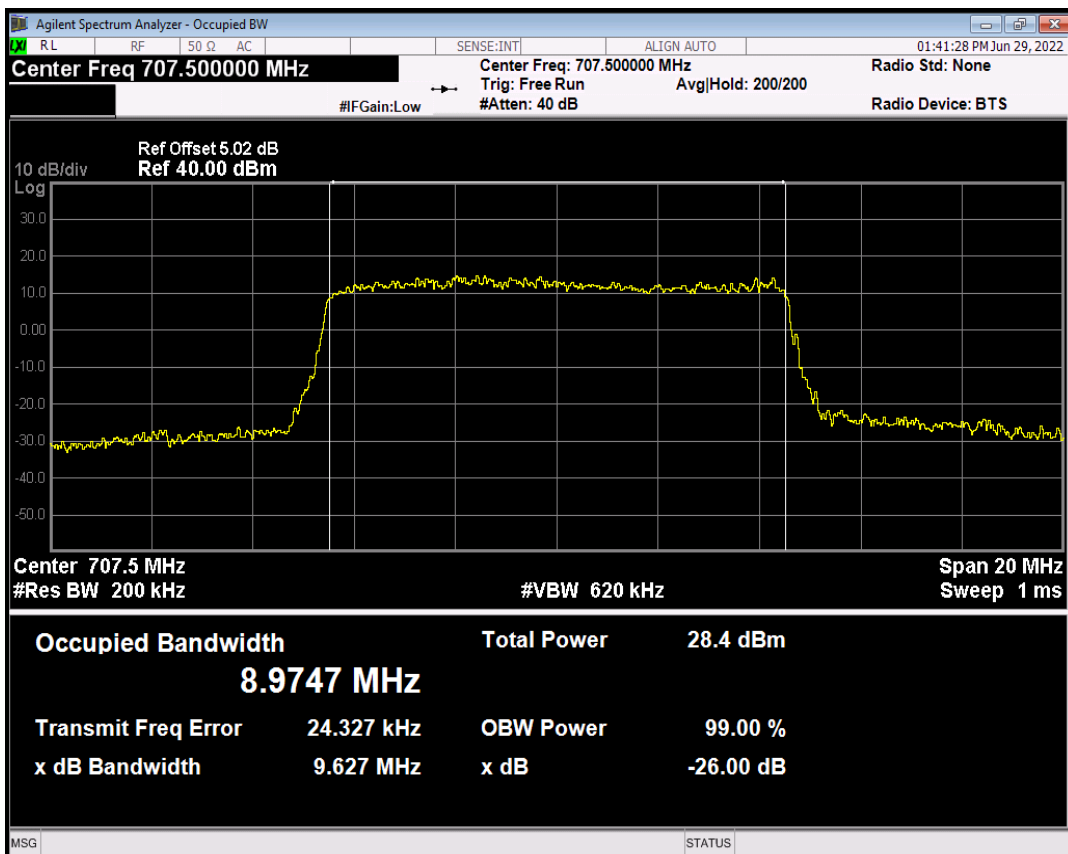




Band12 QPSK BW=10MHz Channel=23095 RB Size=50 Position=#0

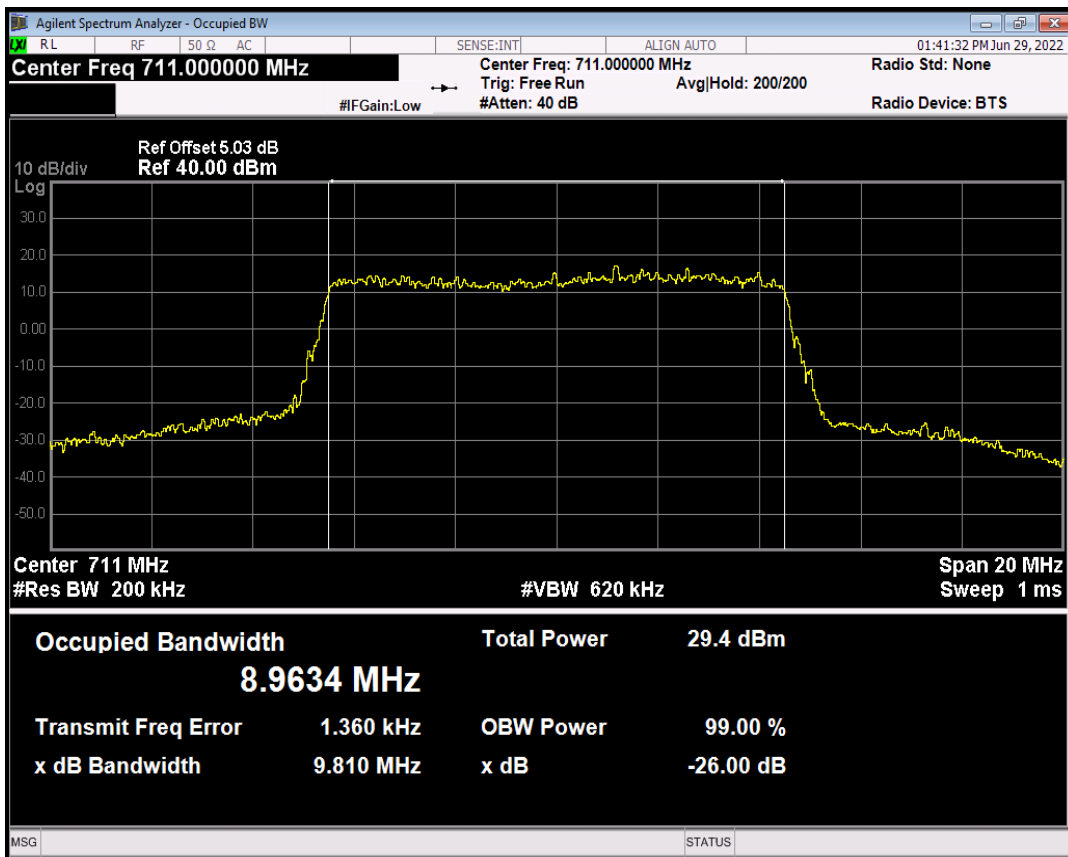


Band12 QAM16 BW=10MHz Channel=23095 RB Size=50 Position=#0

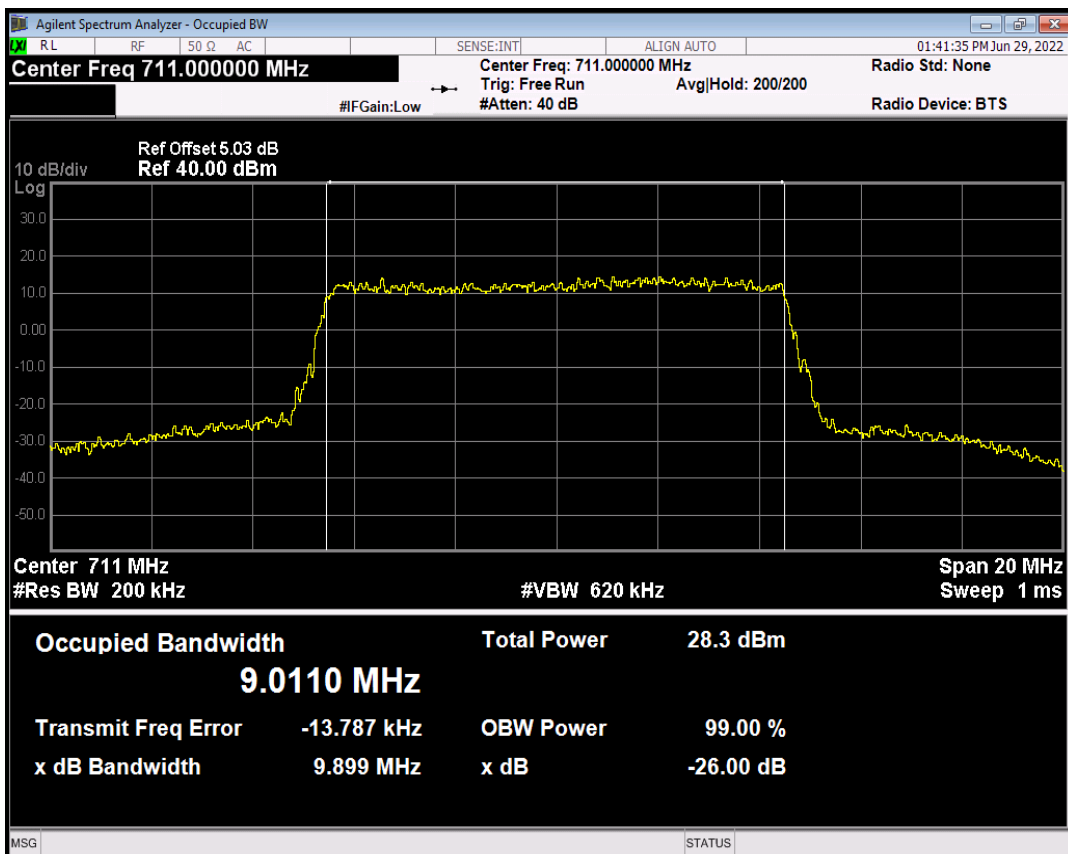




Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0



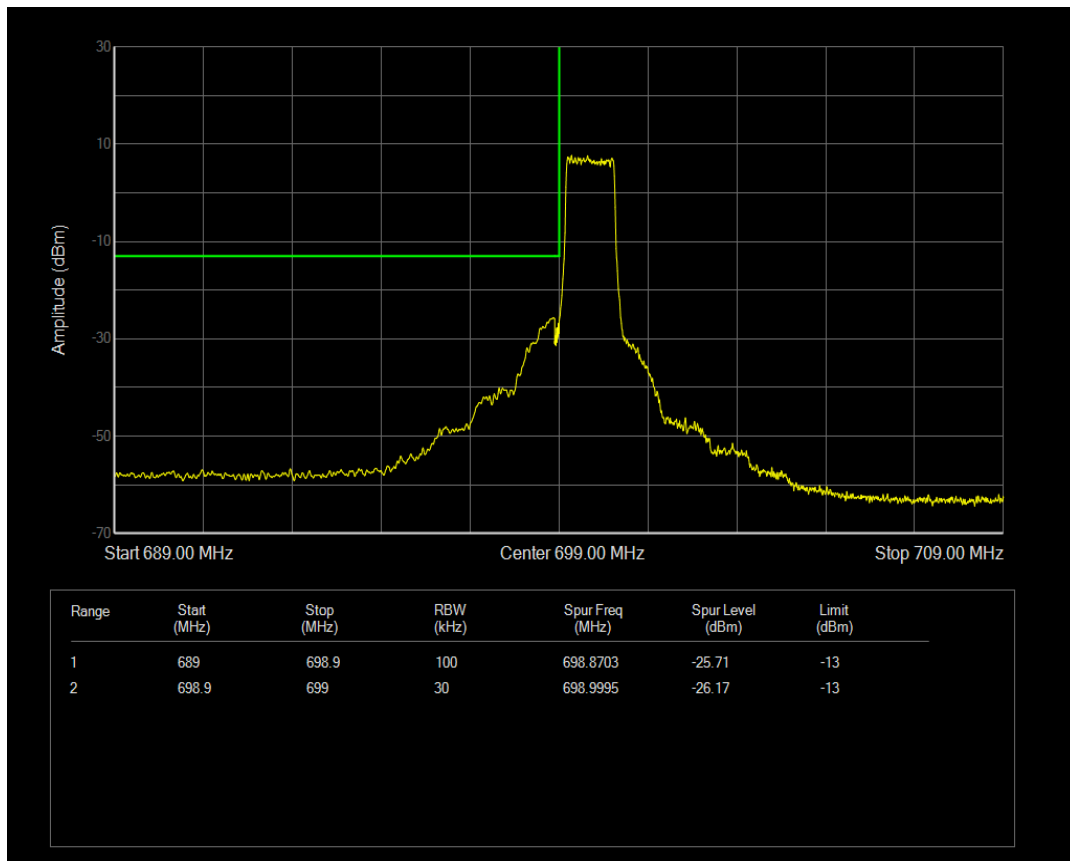
Band12 QAM16 BW=10MHz Channel=23130 RB Size=50 Position=#0



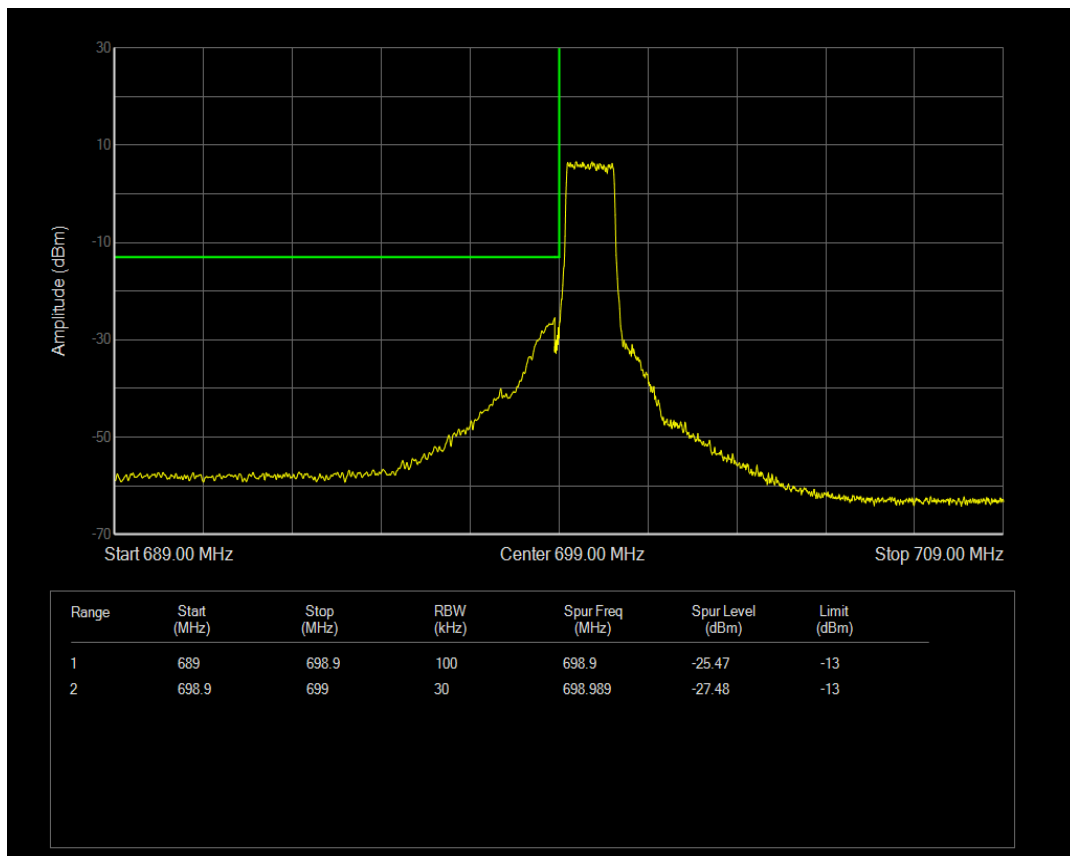
Appendix 5. Band edge

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	698.87	-25.71	-13	PASS
Band12	1.4	23017	6	#0	QAM16	698.90	-25.47	-13	PASS
Band12	1.4	23173	6	#0	QPSK	716.11	-27.57	-13	PASS
Band12	1.4	23173	6	#0	QAM16	716.11	-28.70	-13	PASS
Band12	3	23025	15	#0	QPSK	698.90	-26.96	-13	PASS
Band12	3	23025	15	#0	QAM16	699.00	-27.41	-13	PASS
Band12	3	23165	15	#0	QPSK	716.01	-29.10	-13	PASS
Band12	3	23165	15	#0	QAM16	716.00	-30.39	-13	PASS
Band12	5	23035	25	#0	QPSK	698.90	-27.91	-13	PASS
Band12	5	23035	25	#0	QAM16	698.89	-30.41	-13	PASS
Band12	5	23155	25	#0	QPSK	716.11	-32.56	-13	PASS
Band12	5	23155	25	#0	QAM16	716.02	-33.46	-13	PASS
Band12	10	23060	50	#0	QPSK	698.90	-33.59	-13	PASS
Band12	10	23060	50	#0	QAM16	698.86	-34.83	-13	PASS
Band12	10	23130	50	#0	QPSK	716.14	-34.66	-13	PASS
Band12	10	23130	50	#0	QAM16	716.11	-35.59	-13	PASS

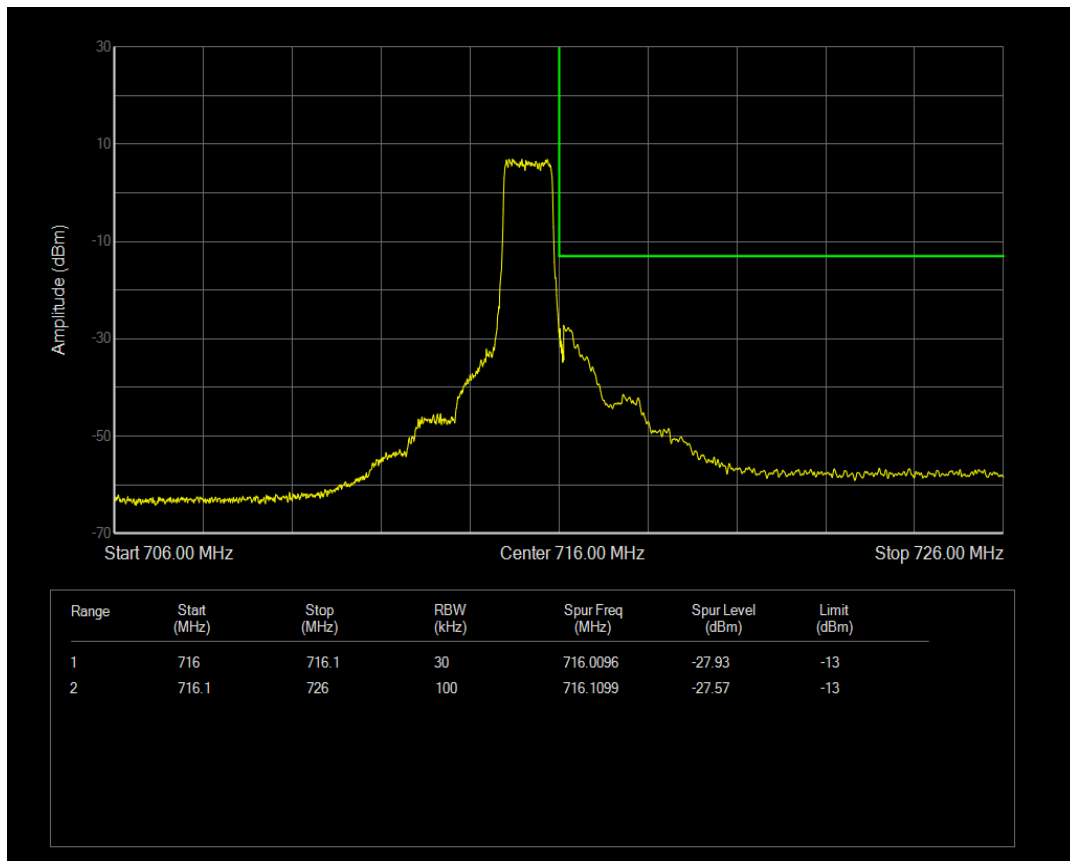
Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0



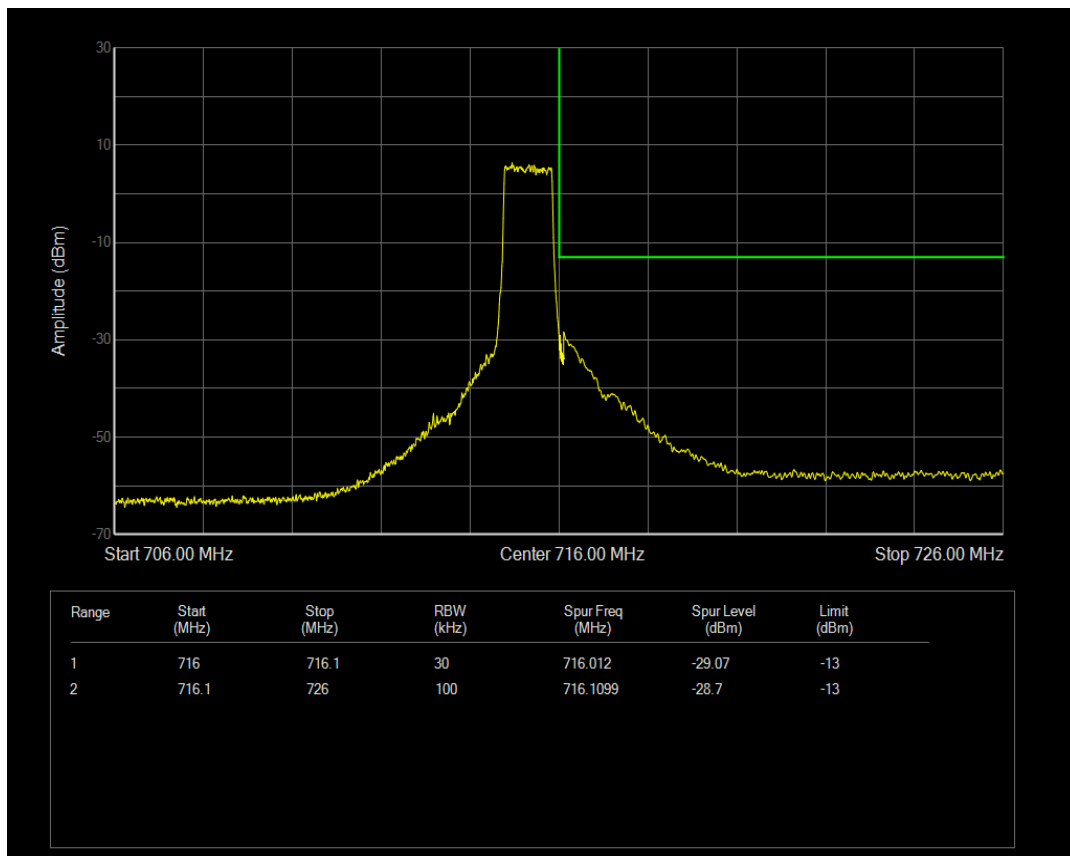
Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=6 Position=#0



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

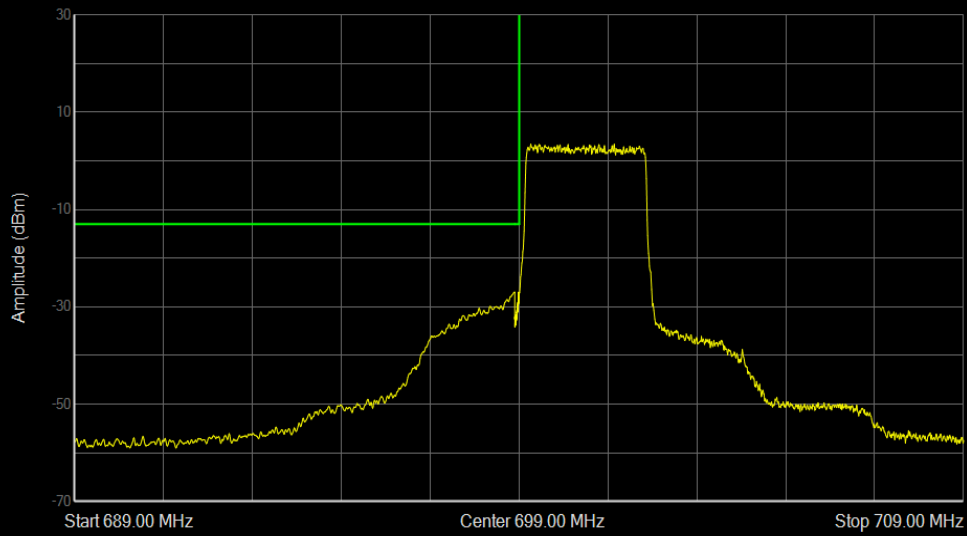


Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=6 Position=#0



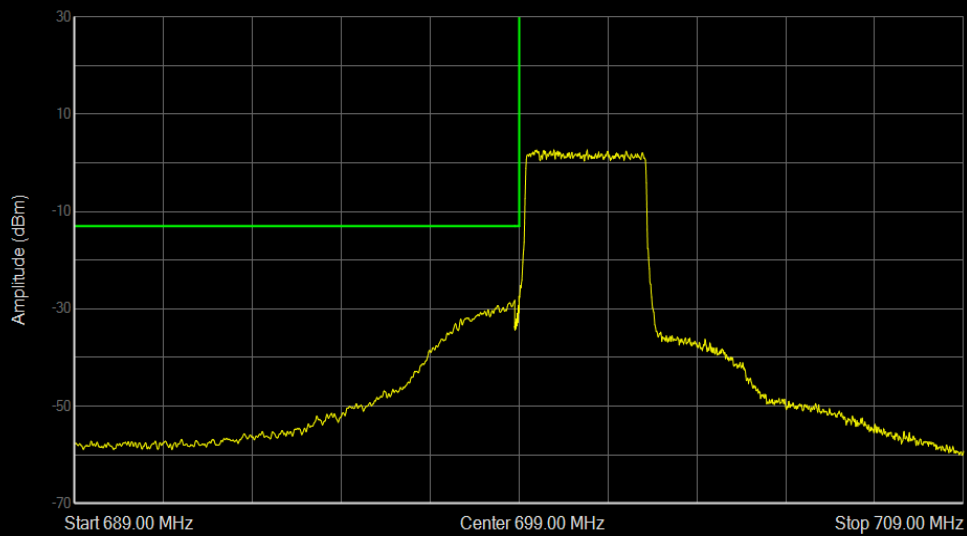


Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0



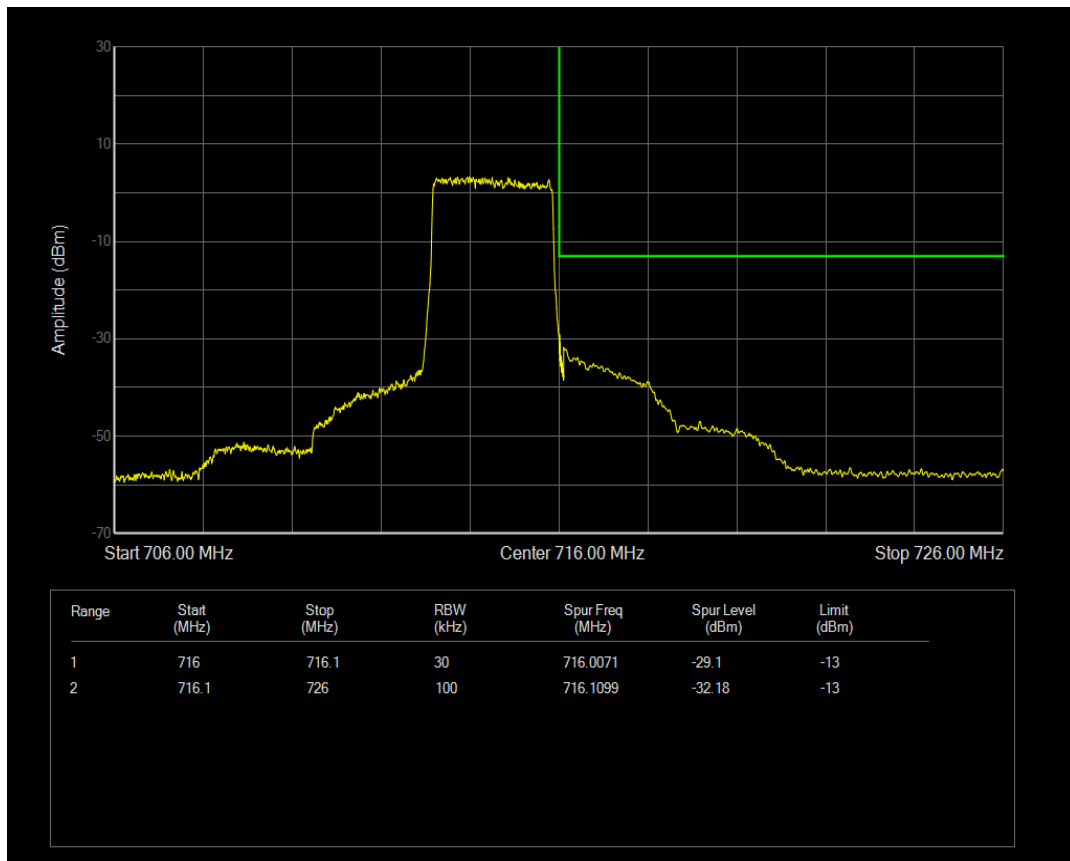
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-26.96	-13
2	698.9	699	30	698.987	-27	-13

Band12 QAM16 BW=3MHz Channel=23025 RB Size=15 Position=#0

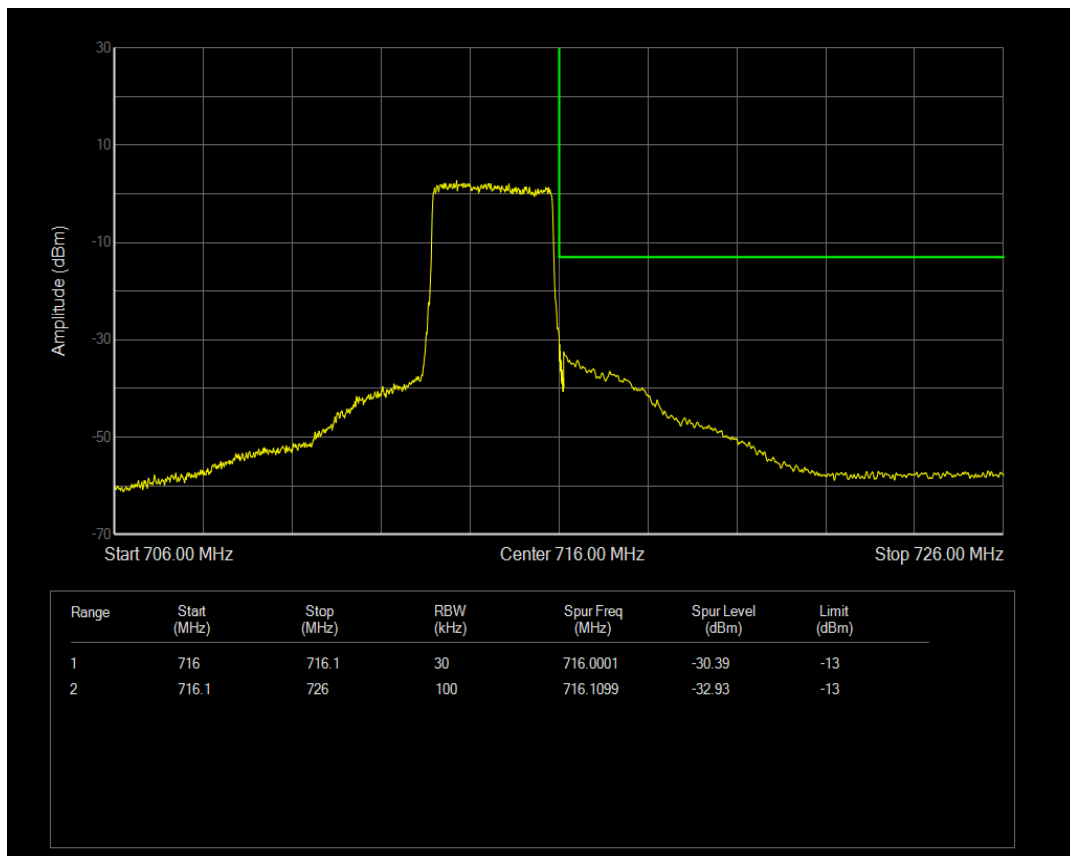


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-28.24	-13
2	698.9	699	30	698.9975	-27.41	-13

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

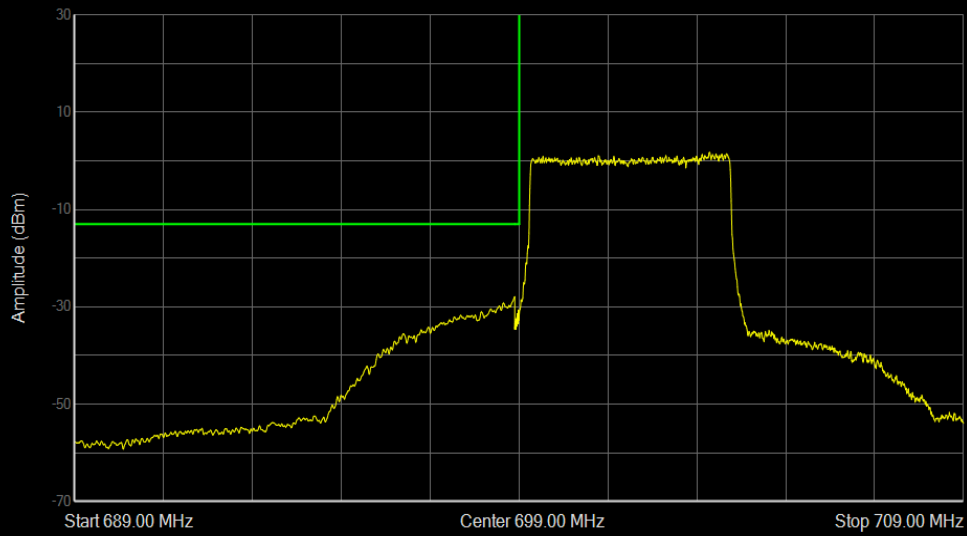


Band12 QAM16 BW=3MHz Channel=23165 RB Size=15 Position=#0



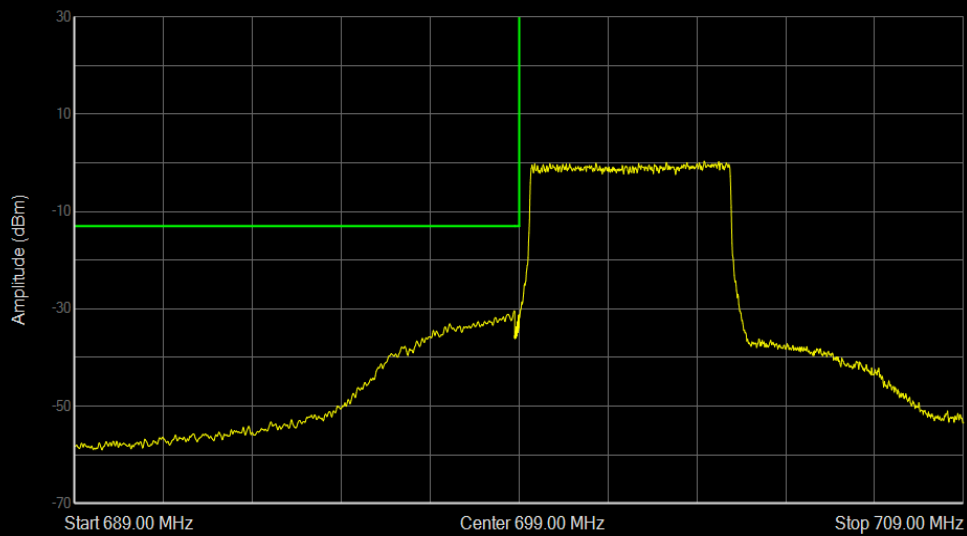


Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-27.91	-13
2	698.9	699	30	698.9818	-30.66	-13

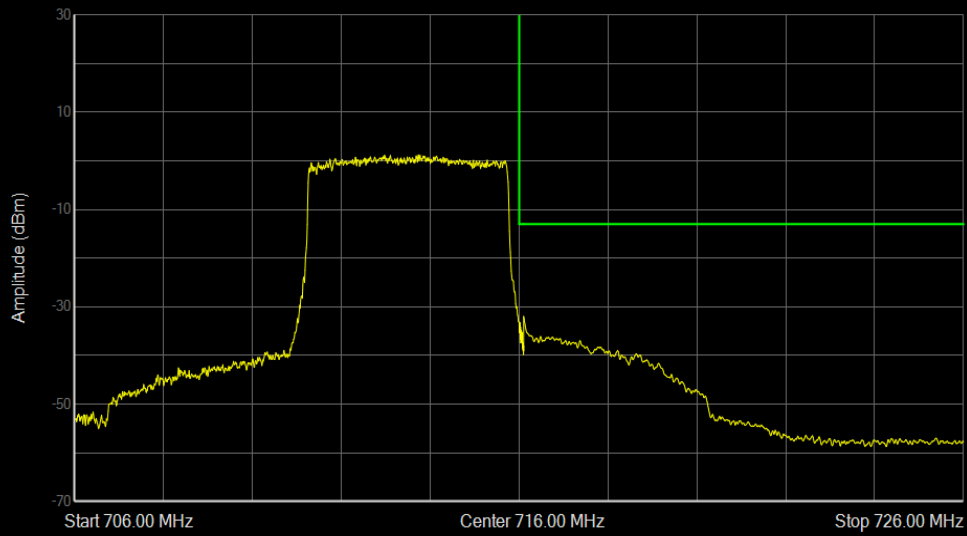
Band12 QAM16 BW=5MHz Channel=23035 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.8901	-30.41	-13
2	698.9	699	30	698.9969	-31.24	-13

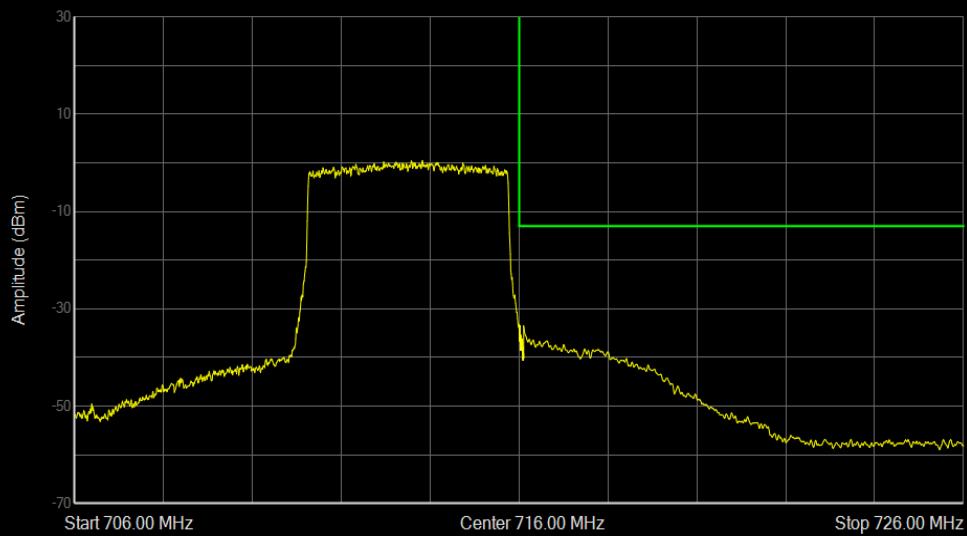


Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0176	-33.32	-13
2	716.1	726	100	716.1099	-32.56	-13

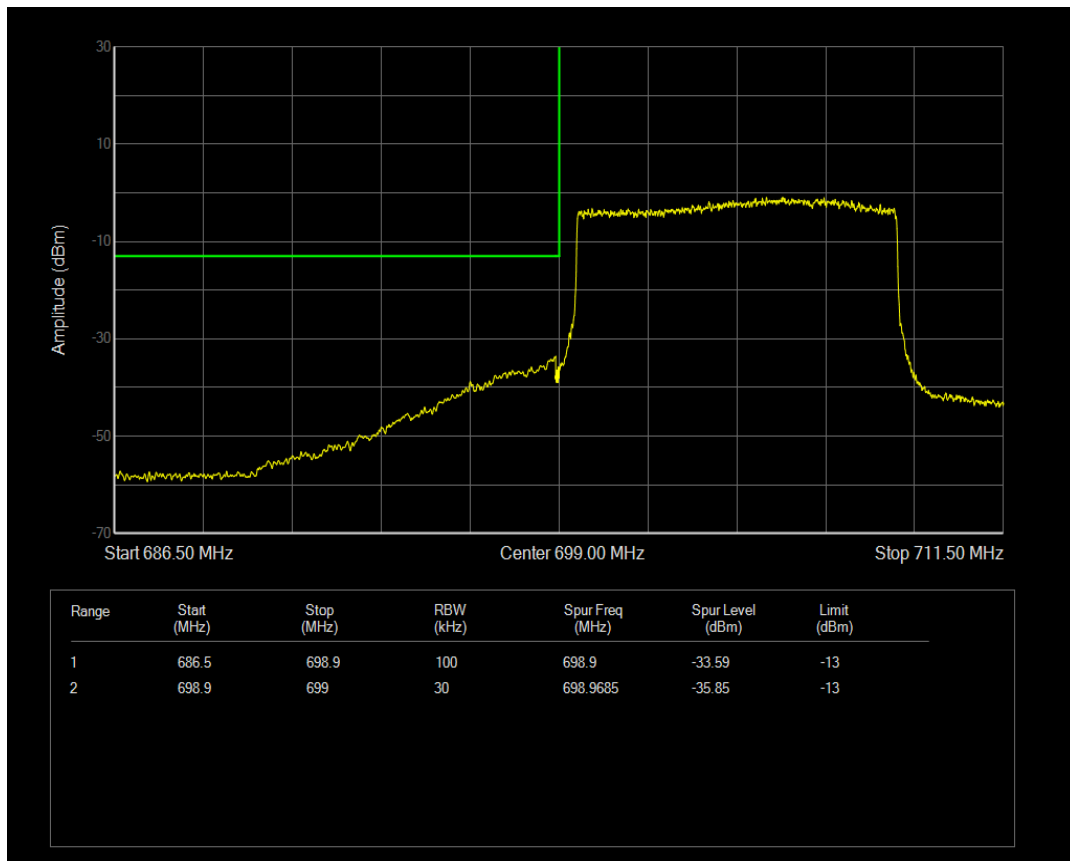
Band12 QAM16 BW=5MHz Channel=23155 RB Size=25 Position=#0



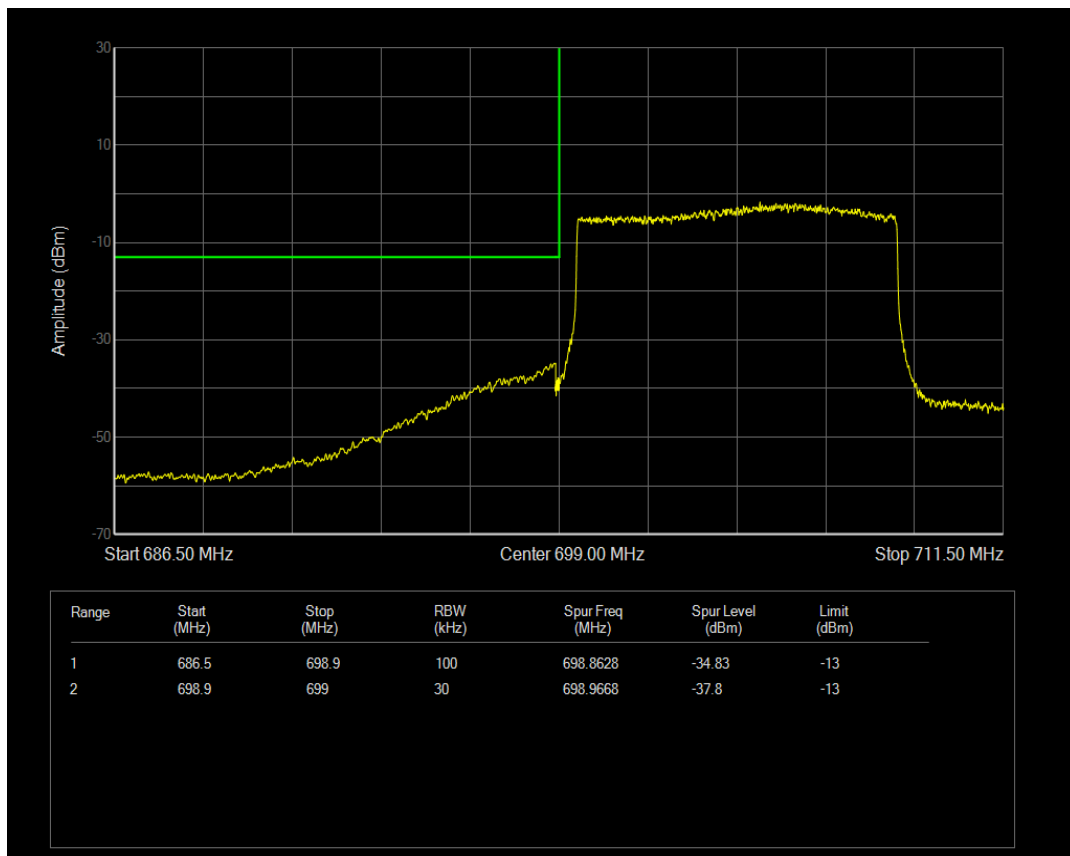
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0174	-33.46	-13
2	716.1	726	100	716.1099	-34.26	-13



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

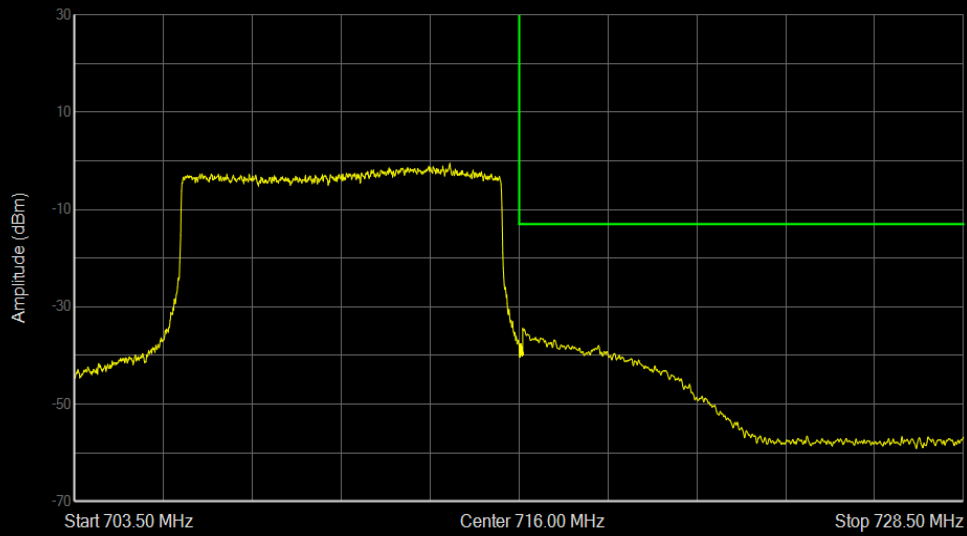


Band12 QAM16 BW=10MHz Channel=23060 RB Size=50 Position=#0



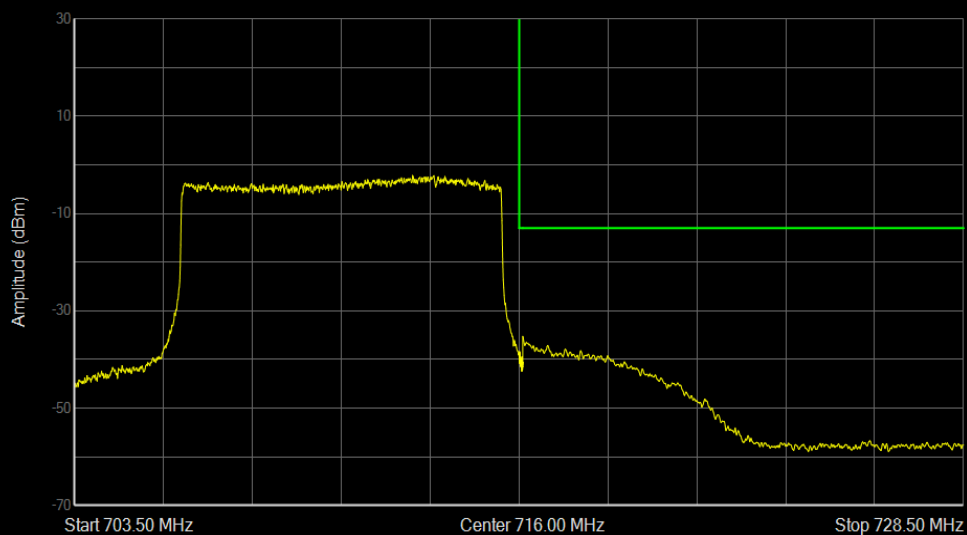


Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0422	-37.6	-13
2	716.1	728.5	100	716.1372	-34.66	-13

Band12 QAM16 BW=10MHz Channel=23130 RB Size=50 Position=#0

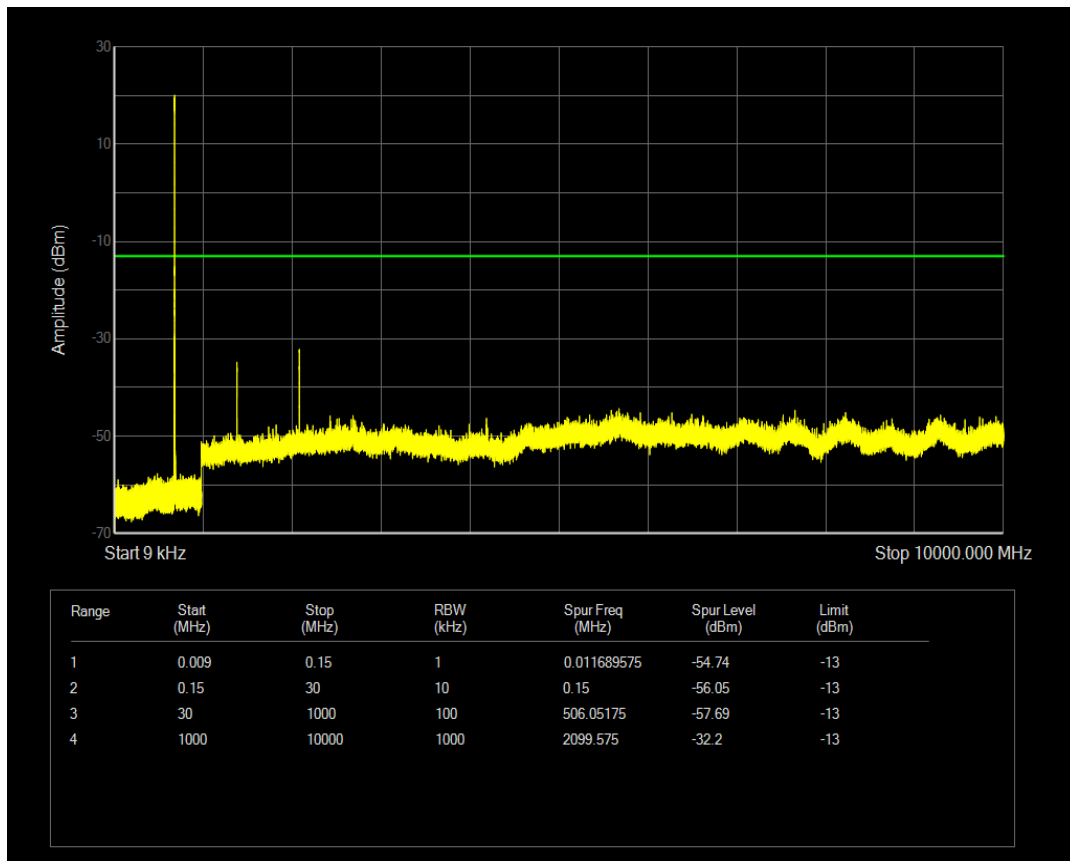


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0123	-38.41	-13
2	716.1	728.5	100	716.1124	-35.59	-13

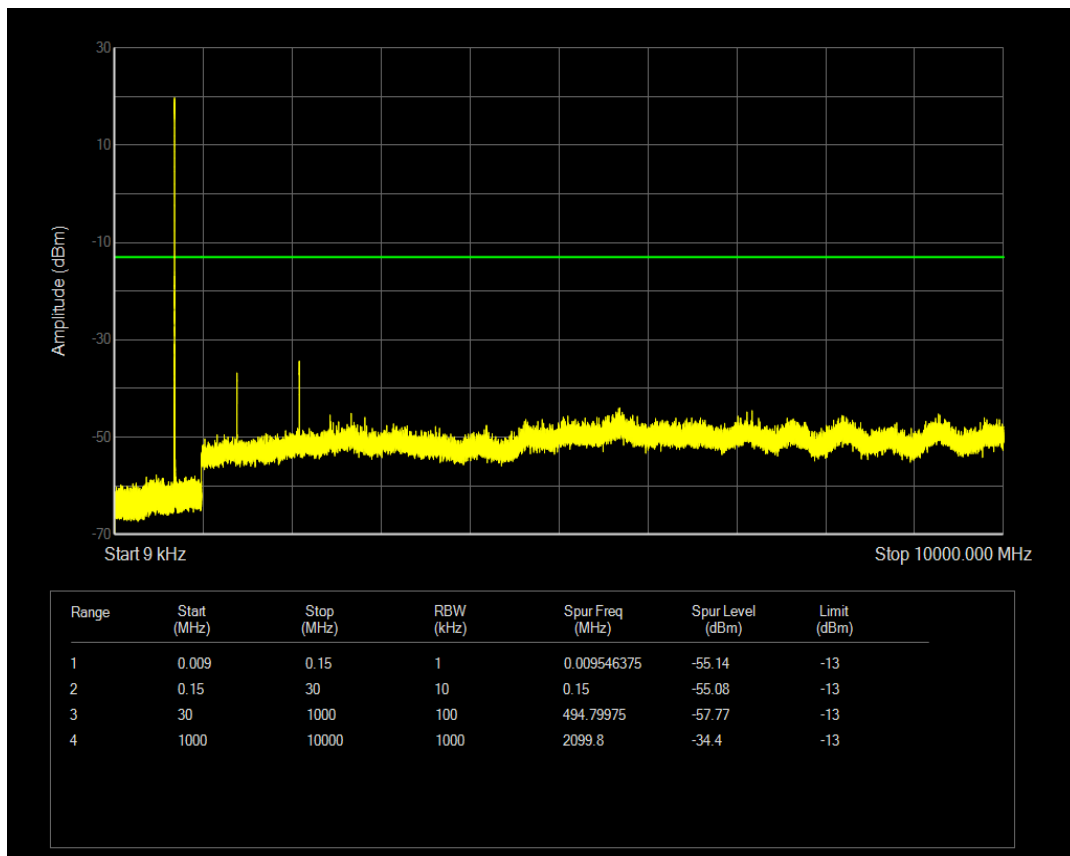
Appendix 6. Out-of-band emissions

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	2099.58	-32.20	-13	PASS
Band12	1.4	23017	6	#0	QAM16	2099.80	-34.40	-13	PASS
Band12	1.4	23095	6	#0	QPSK	2123.43	-34.35	-13	PASS
Band12	1.4	23095	6	#0	QAM16	2123.43	-35.84	-13	PASS
Band12	1.4	23173	6	#0	QPSK	2145.93	-33.24	-13	PASS
Band12	1.4	23173	6	#0	QAM16	1430.43	-35.95	-13	PASS
Band12	3	23025	15	#0	QPSK	2100.93	-38.16	-13	PASS
Band12	3	23025	15	#0	QAM16	2100.25	-37.63	-13	PASS
Band12	3	23095	15	#0	QPSK	2122.08	-37.77	-13	PASS
Band12	3	23095	15	#0	QAM16	2120.05	-37.70	-13	PASS
Band12	3	23165	15	#0	QPSK	1429.53	-39.43	-13	PASS
Band12	3	23165	15	#0	QAM16	2143.45	-38.49	-13	PASS
Band12	5	23035	25	#0	QPSK	2106.10	-39.63	-13	PASS
Band12	5	23035	25	#0	QAM16	2106.10	-39.84	-13	PASS
Band12	5	23095	25	#0	QPSK	2121.63	-41.00	-13	PASS
Band12	5	23095	25	#0	QAM16	2120.50	-40.96	-13	PASS
Band12	5	23155	25	#0	QPSK	1424.35	-41.15	-13	PASS
Band12	5	23155	25	#0	QAM16	1424.35	-40.31	-13	PASS
Band12	10	23060	50	#0	QPSK	1411.98	-42.21	-13	PASS
Band12	10	23060	50	#0	QAM16	2118.93	-41.02	-13	PASS
Band12	10	23095	50	#0	QPSK	2119.38	-42.67	-13	PASS
Band12	10	23095	50	#0	QAM16	1409.95	-42.40	-13	PASS
Band12	10	23130	50	#0	QPSK	1426.15	-42.68	-13	PASS
Band12	10	23130	50	#0	QAM16	1428.18	-41.88	-13	PASS

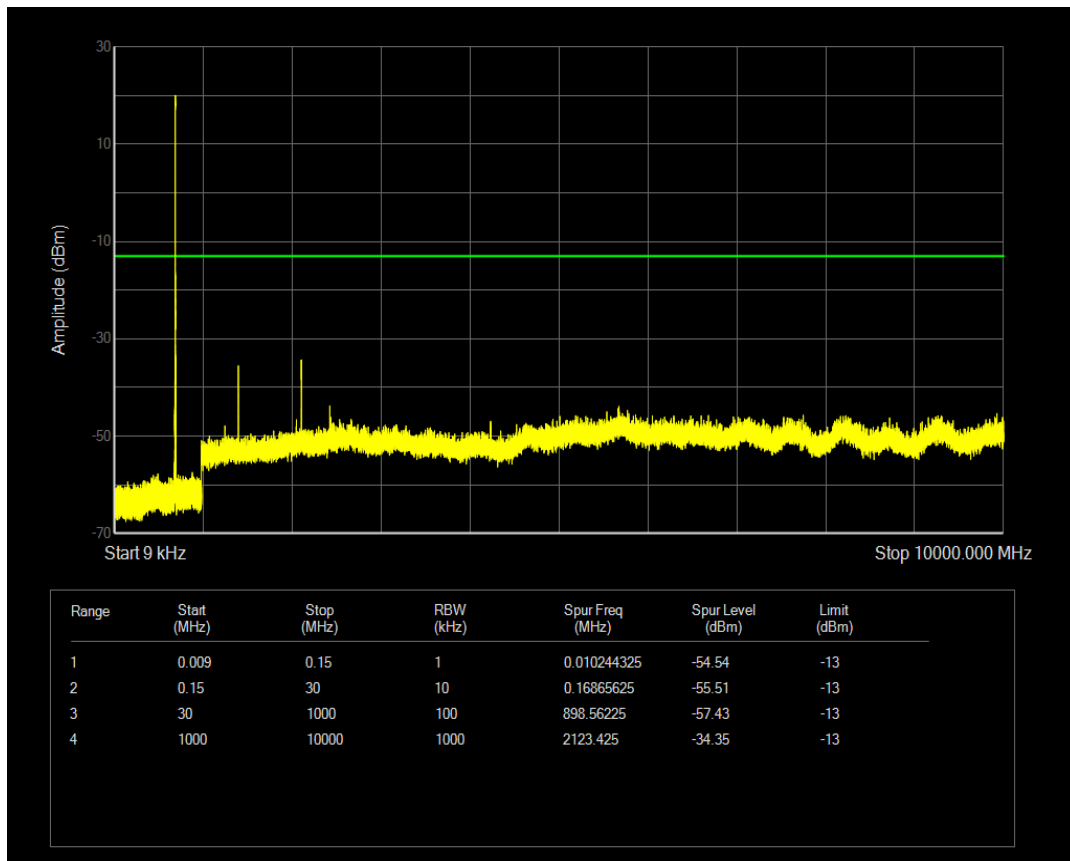
Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0



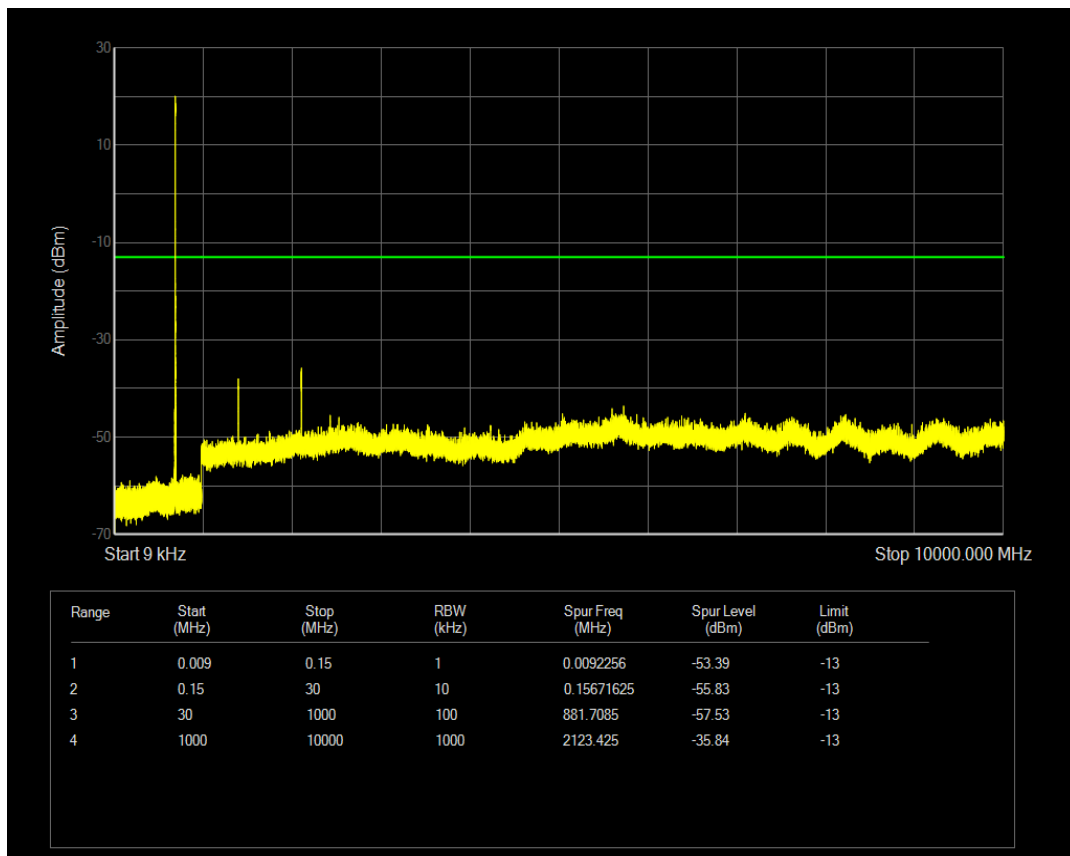
Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=6 Position=#0



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

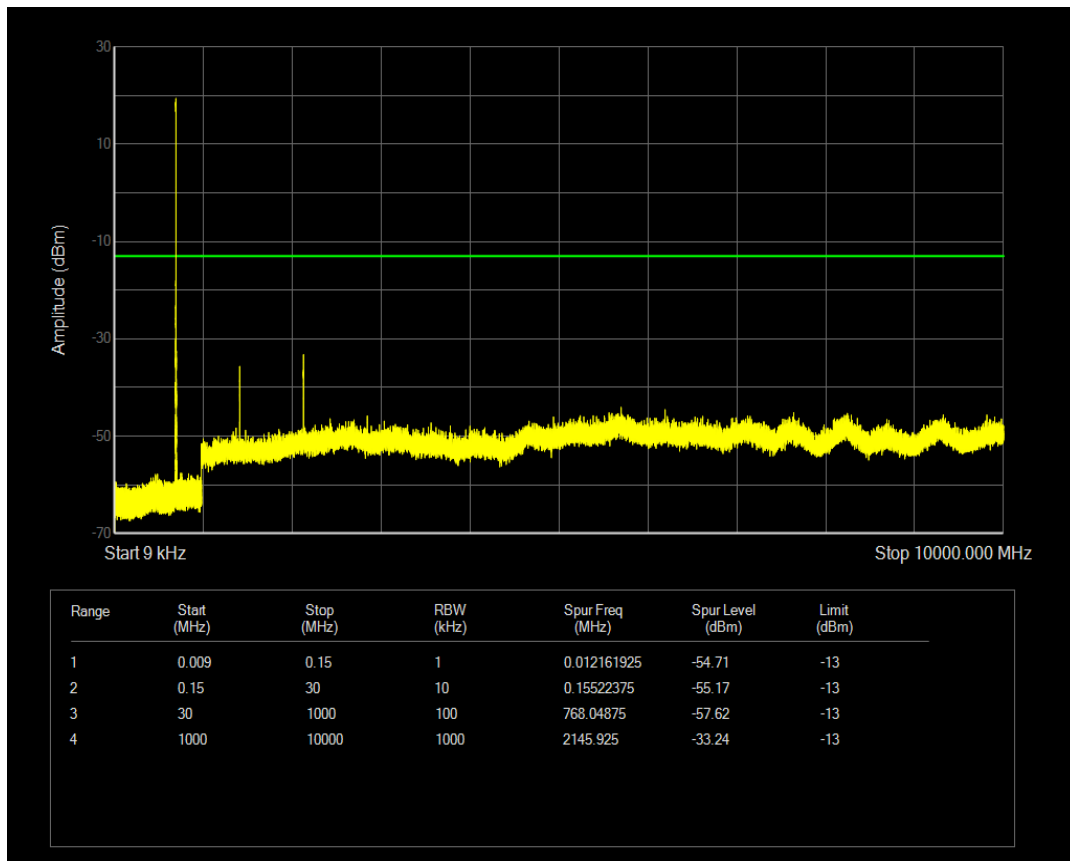


Band12 QAM16 BW=1.4MHz Channel=23095 RB Size=6 Position=#0

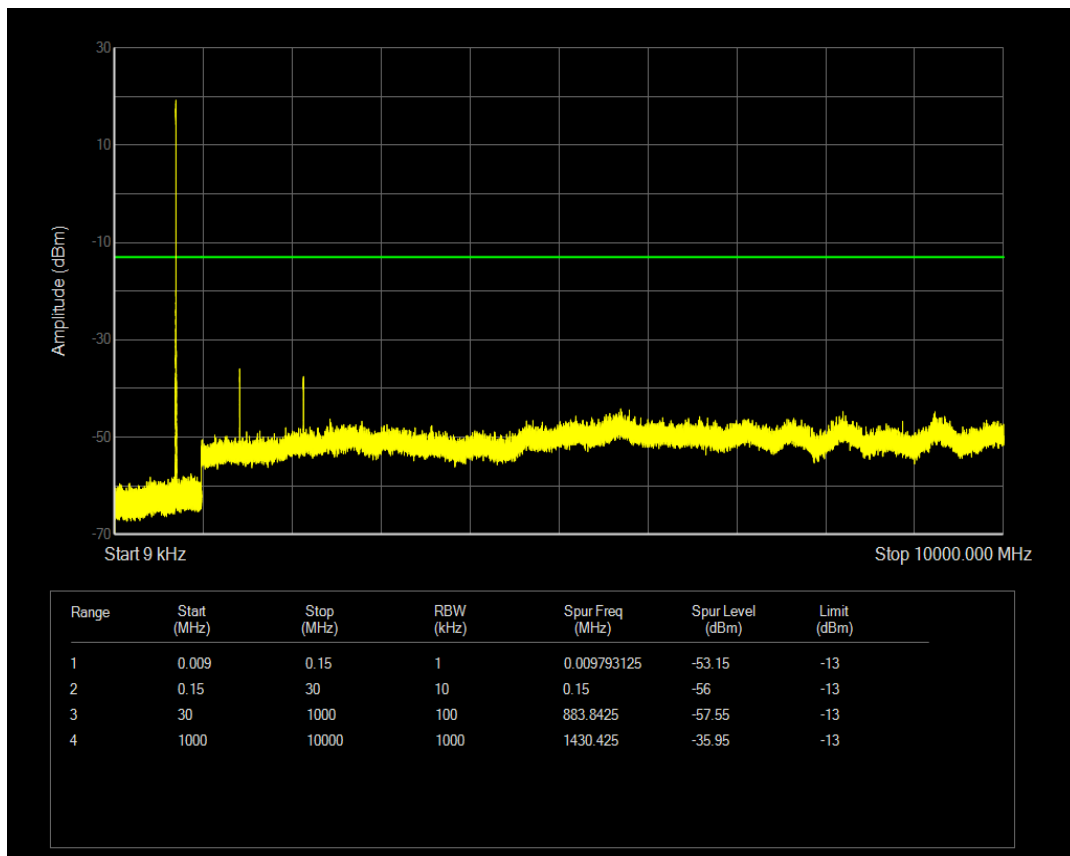




Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0

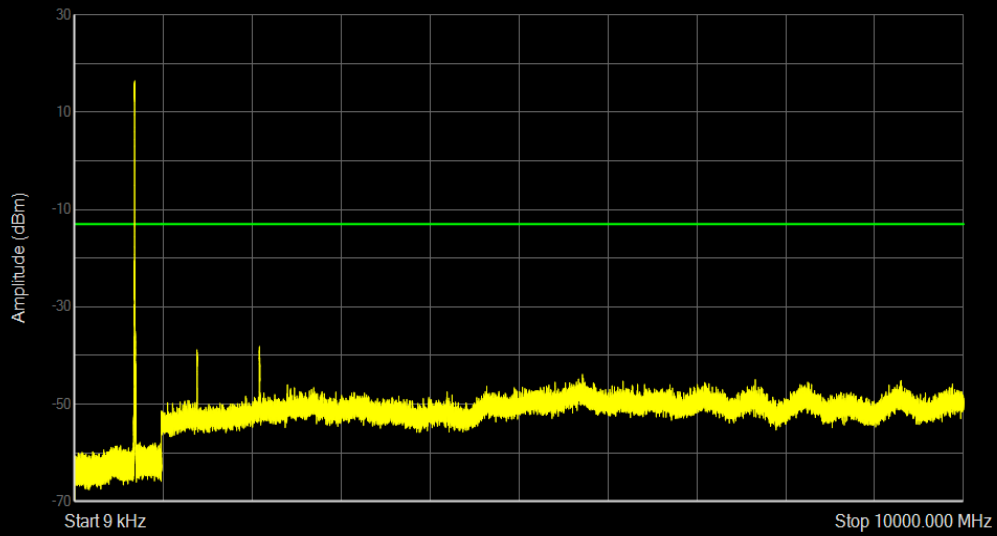


Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=6 Position=#0



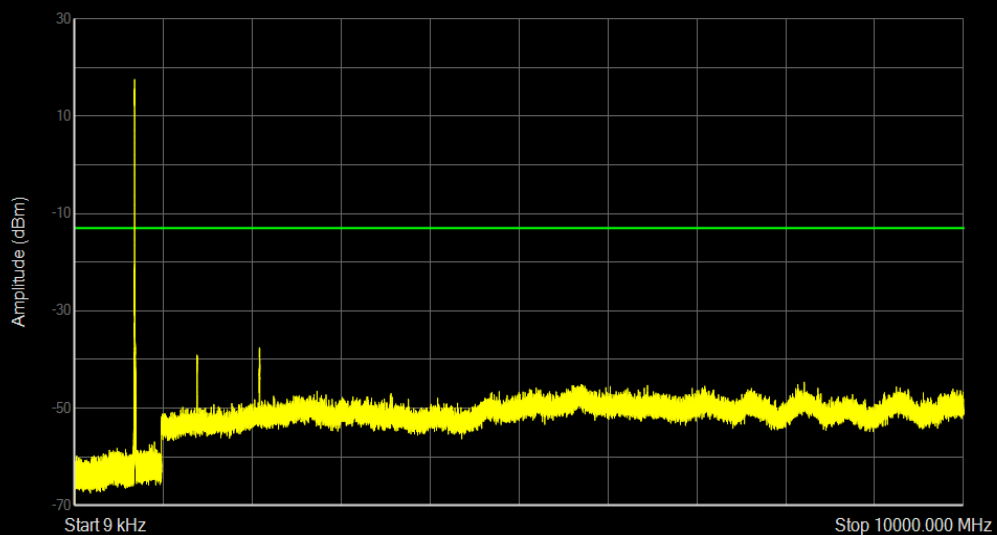


Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013430925	-54.7	-13
2	0.15	30	10	0.15	-55.5	-13
3	30	1000	100	759.56125	-57.88	-13
4	1000	10000	1000	2100.925	-38.16	-13

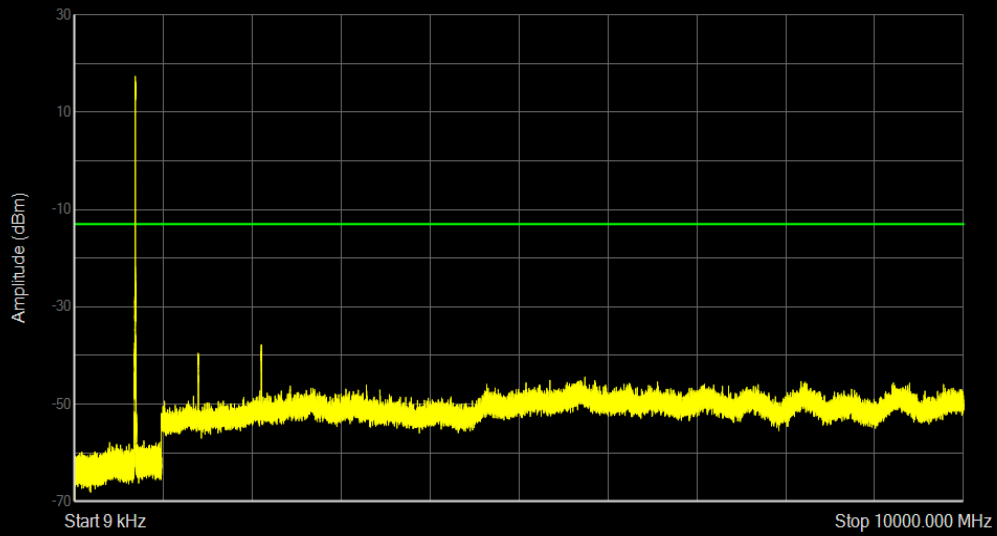
Band12 QAM16 BW=3MHz Channel=23025 RB Size=15 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009595725	-52.56	-13
2	0.15	30	10	0.1694025	-54.67	-13
3	30	1000	100	923.273	-56.97	-13
4	1000	10000	1000	2100.25	-37.63	-13

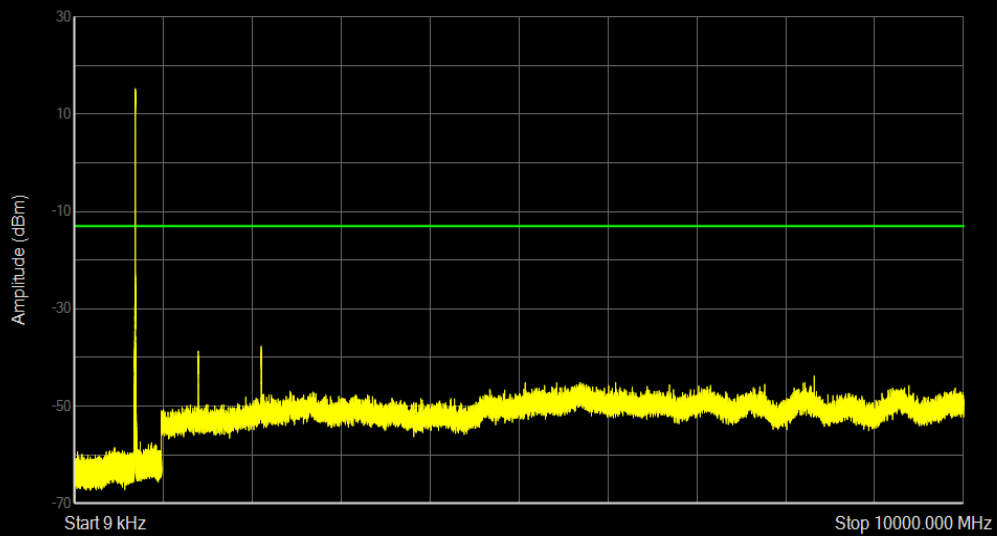


Band12 QPSK BW=3MHz Channel=23095 RB Size=15 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-53.47	-13
2	0.15	30	10	0.164925	-55.43	-13
3	30	1000	100	804.56925	-57.56	-13
4	1000	10000	1000	2122.075	-37.77	-13

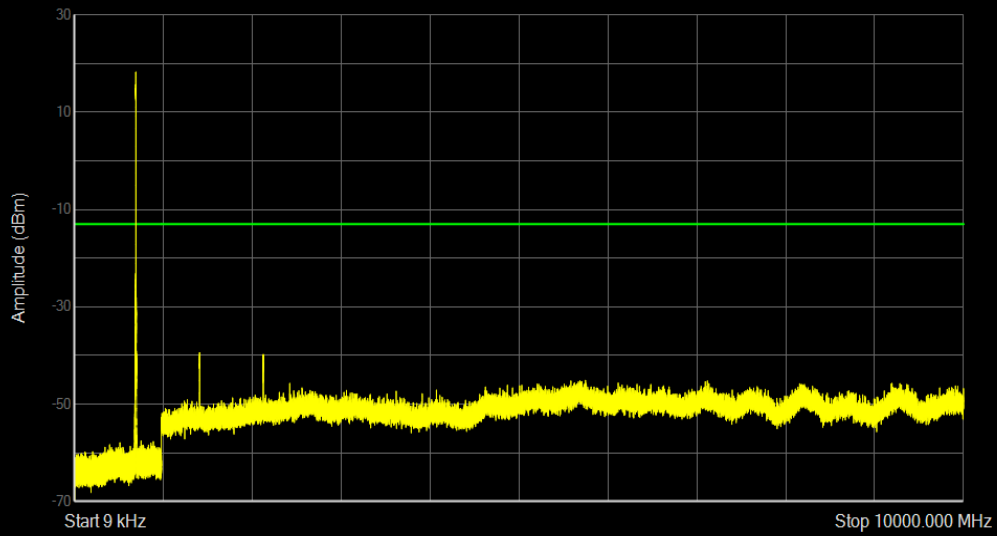
Band12 QAM16 BW=3MHz Channel=23095 RB Size=15 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01060035	-54.75	-13
2	0.15	30	10	0.16119375	-53.82	-13
3	30	1000	100	764.02325	-57.4	-13
4	1000	10000	1000	2120.05	-37.7	-13

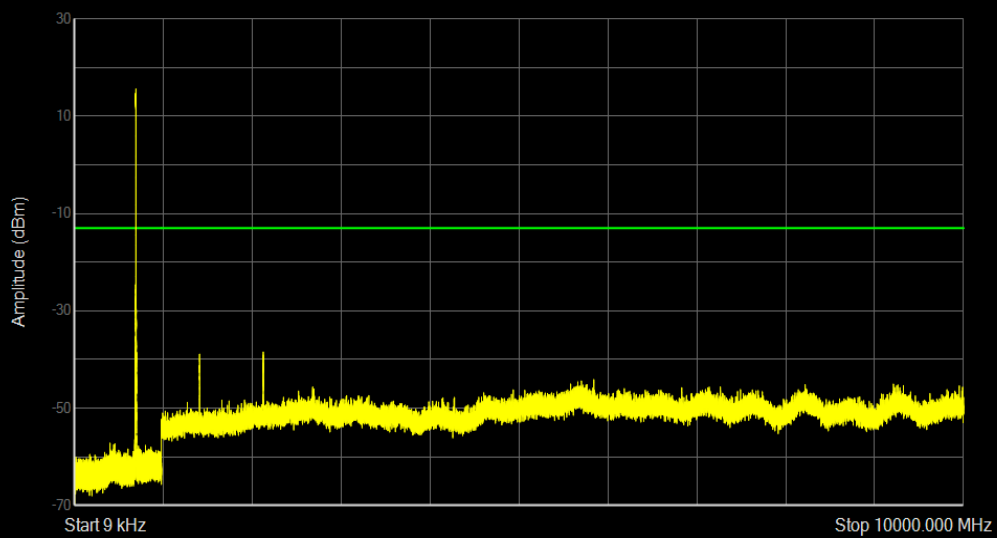


Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0



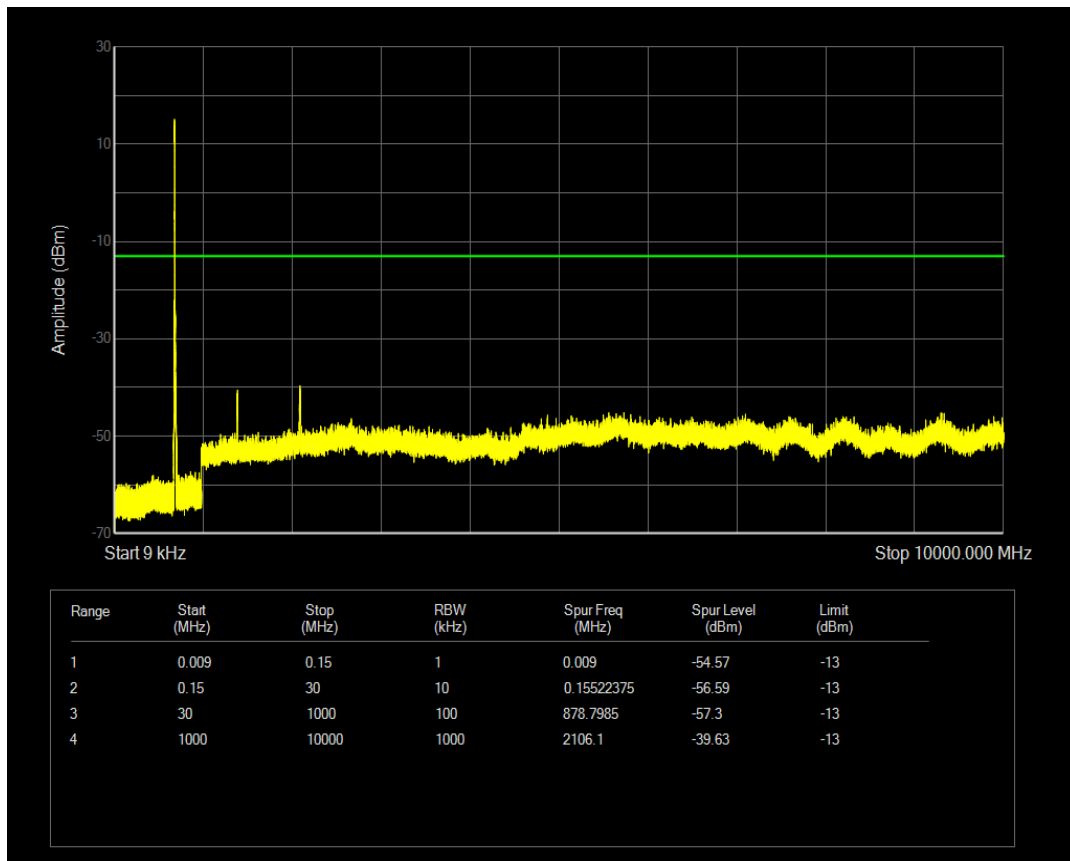
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-55.62	-13
2	0.15	30	10	0.15	-56.04	-13
3	30	1000	100	773.04425	-57.55	-13
4	1000	10000	1000	1429.525	-39.43	-13

Band12 QAM16 BW=3MHz Channel=23165 RB Size=15 Position=#0

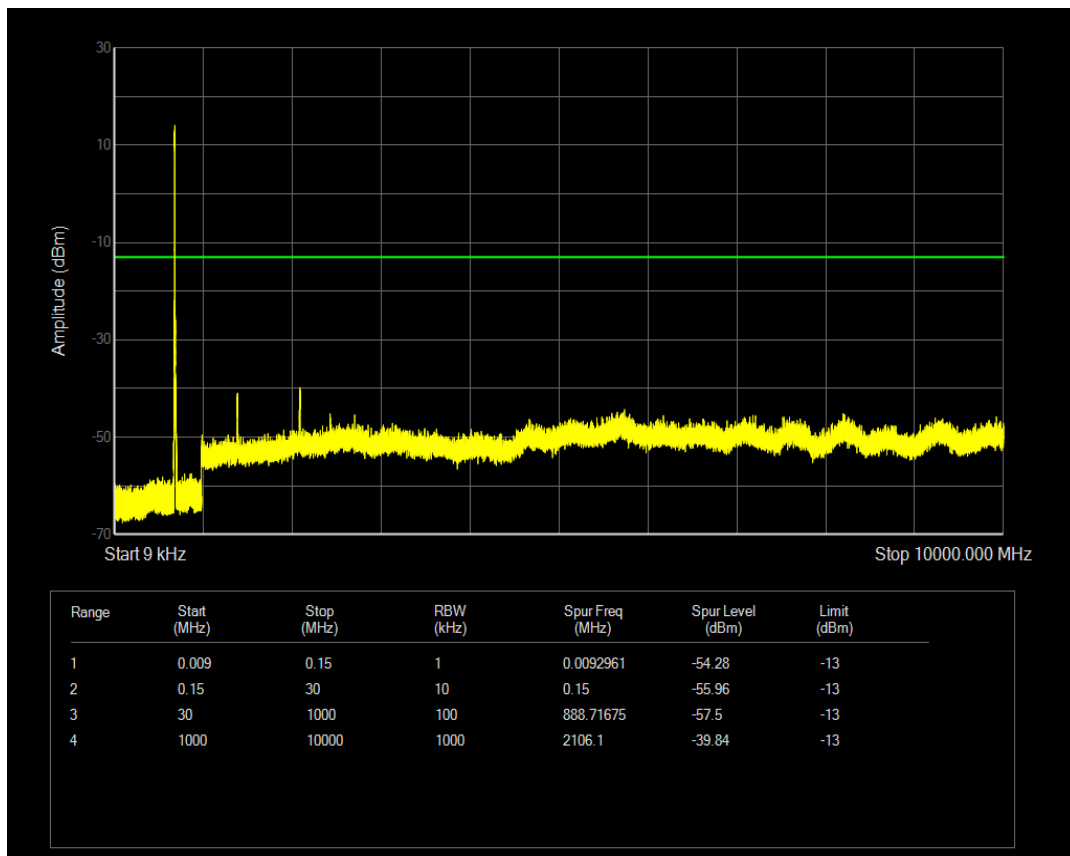


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-55.05	-13
2	0.15	30	10	0.15671625	-53.54	-13
3	30	1000	100	423.917	-57.19	-13
4	1000	10000	1000	2143.45	-38.49	-13

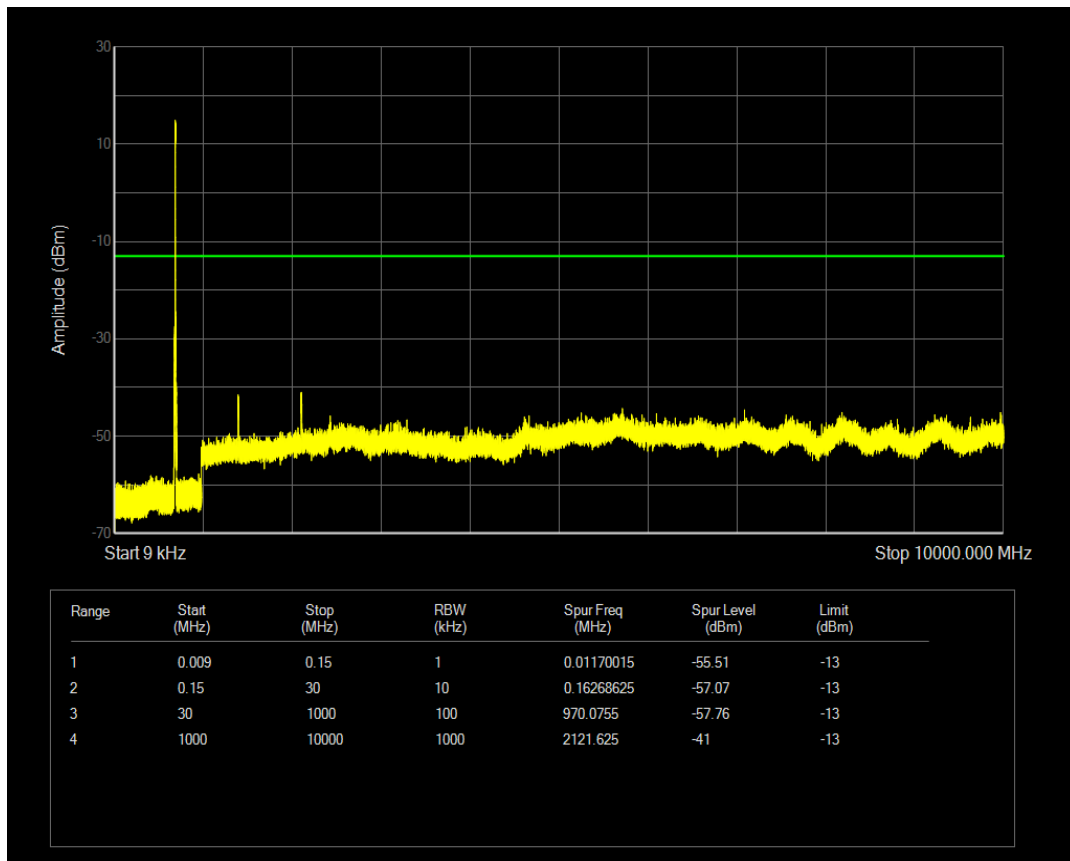
Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0



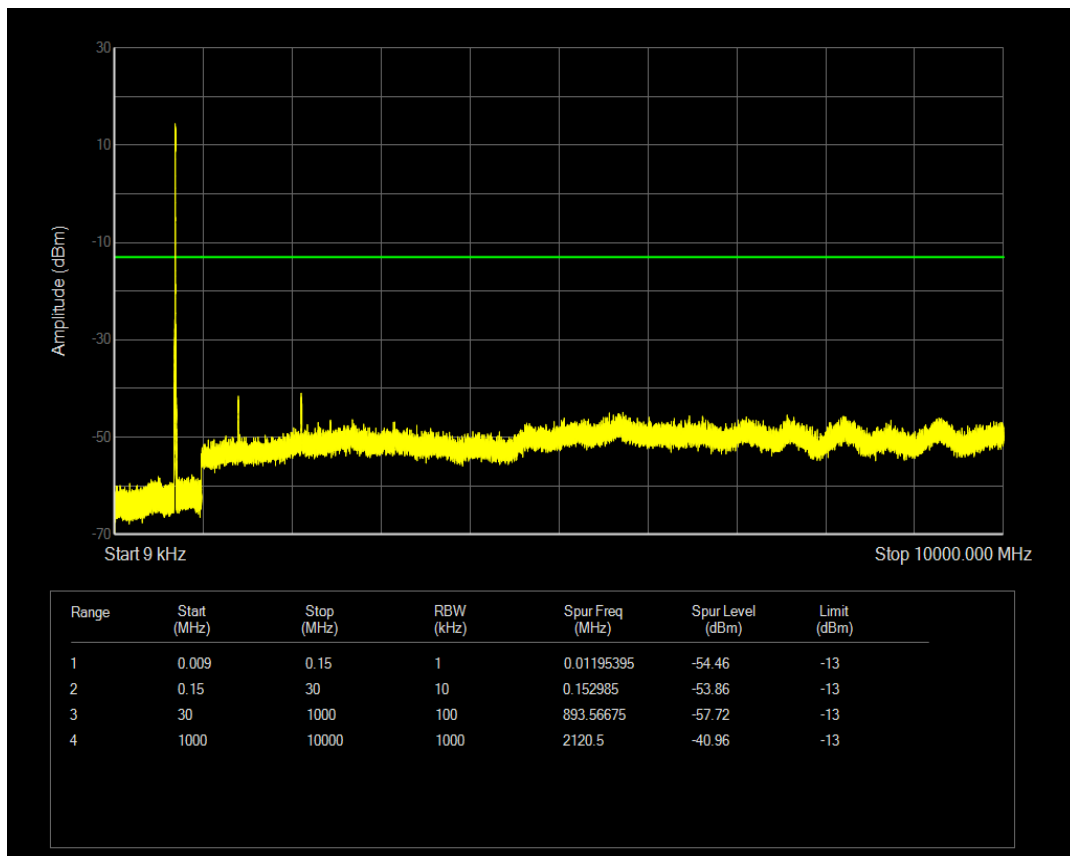
Band12 QAM16 BW=5MHz Channel=23035 RB Size=25 Position=#0



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

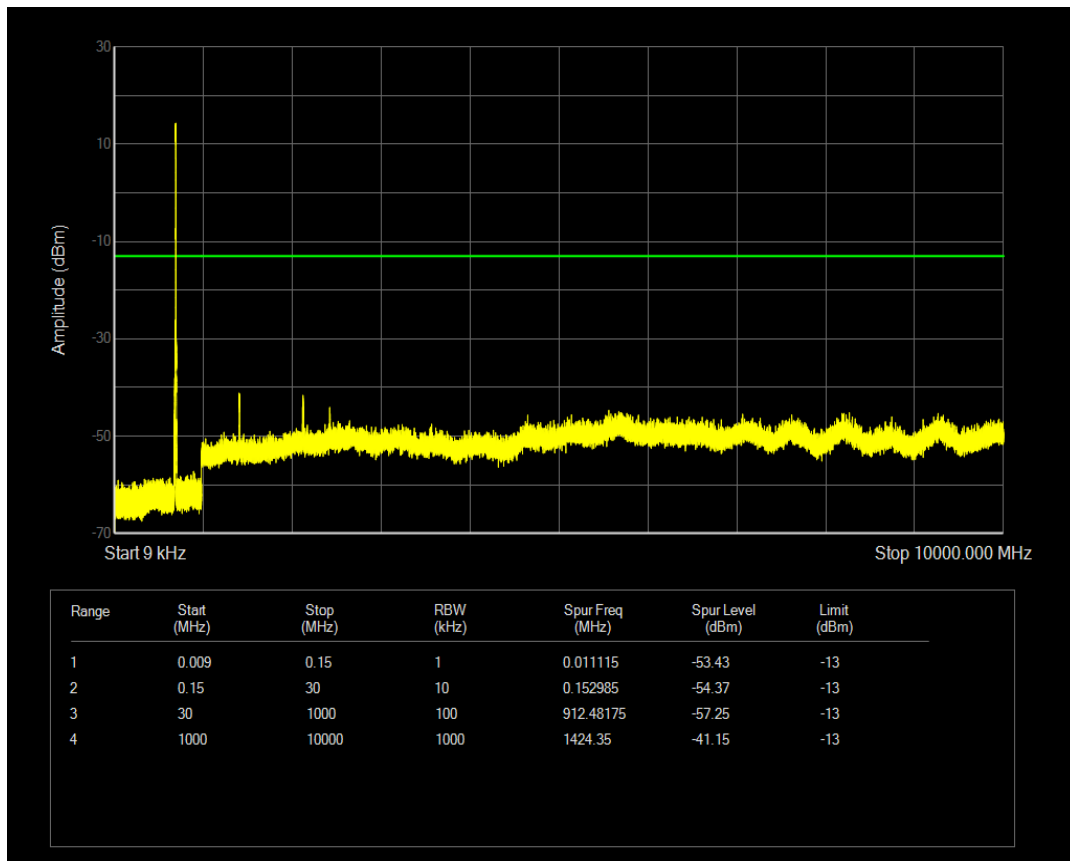


Band12 QAM16 BW=5MHz Channel=23095 RB Size=25 Position=#0

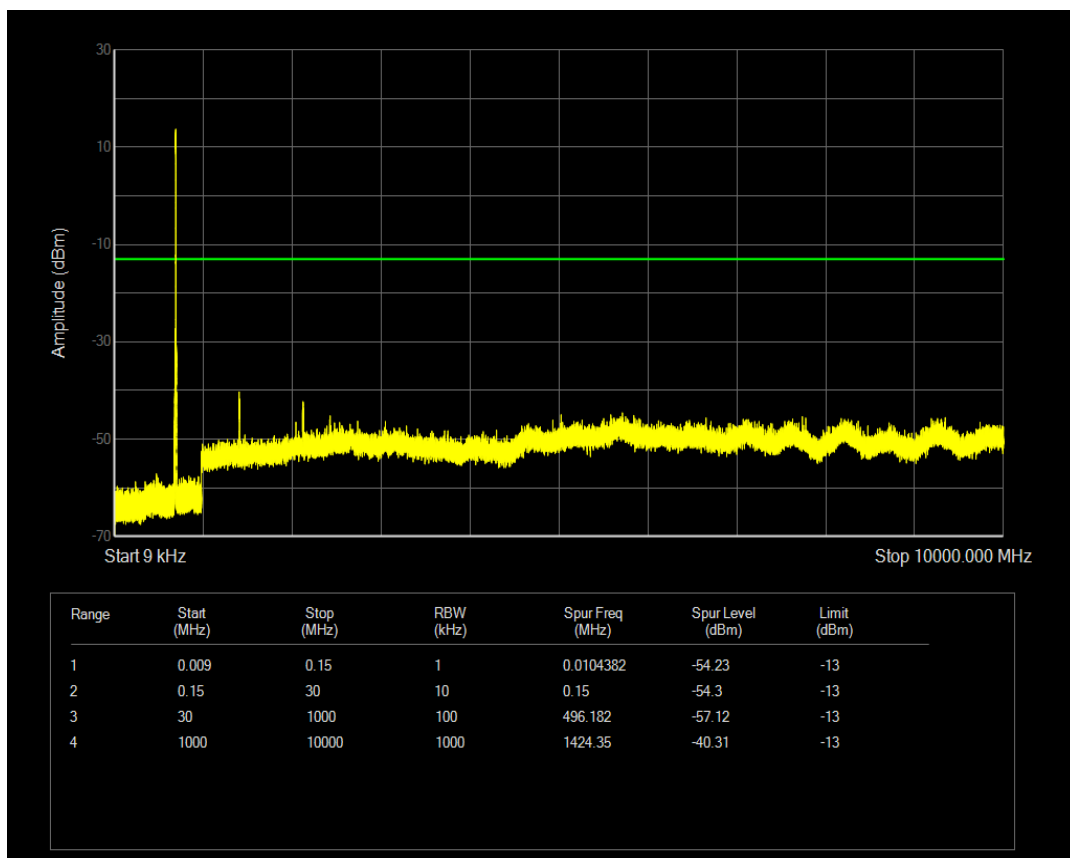




Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0

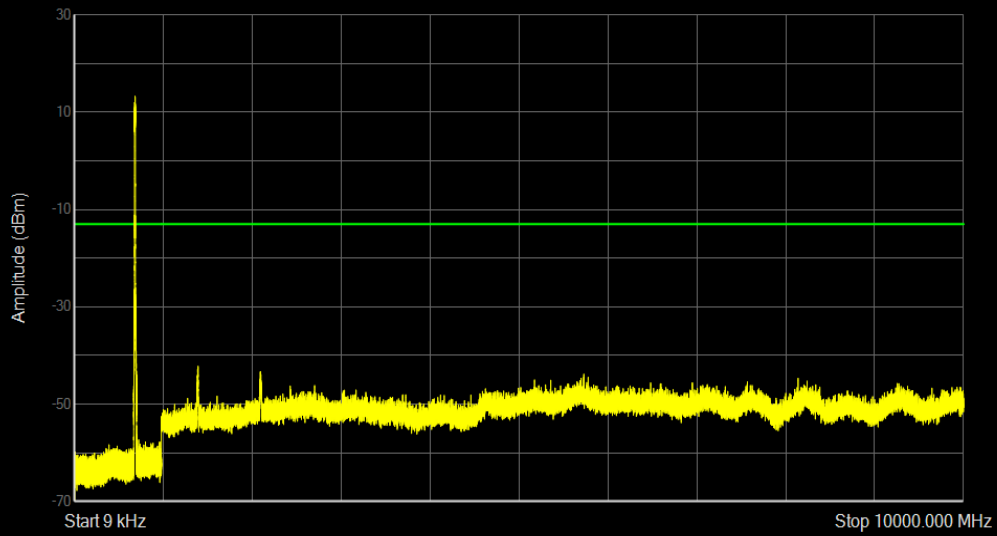


Band12 QAM16 BW=5MHz Channel=23155 RB Size=25 Position=#0



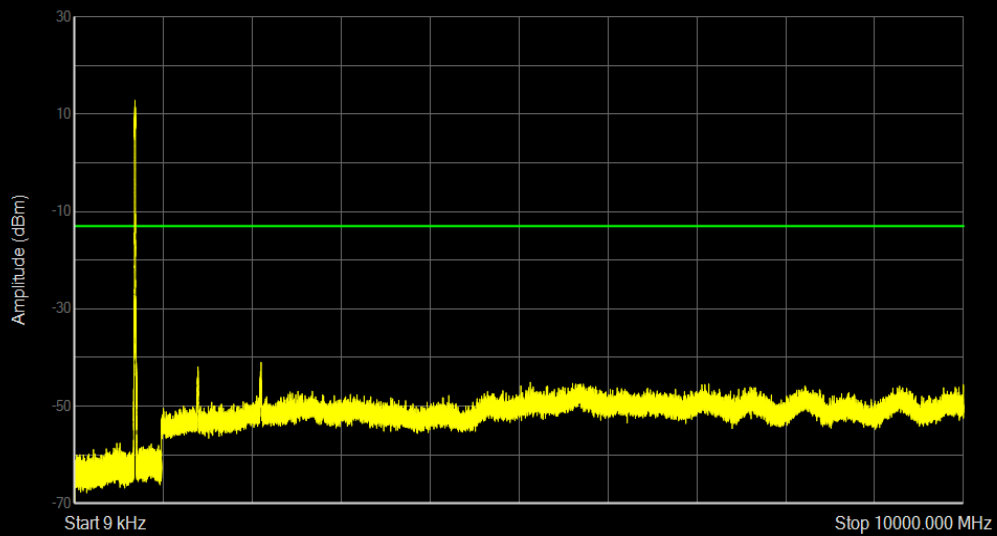


Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0



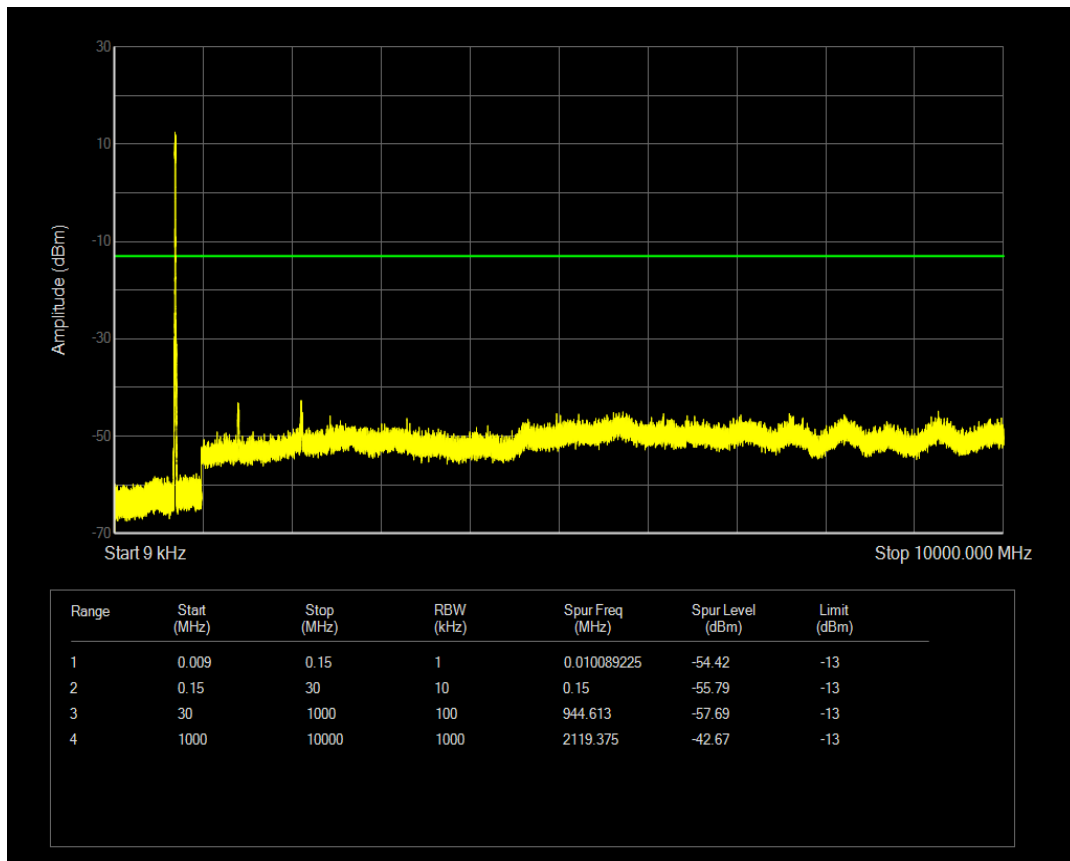
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009884775	-53.83	-13
2	0.15	30	10	0.15	-55.39	-13
3	30	1000	100	822.2475	-57.77	-13
4	1000	10000	1000	1411.975	-42.21	-13

Band12 QAM16 BW=10MHz Channel=23060 RB Size=50 Position=#0

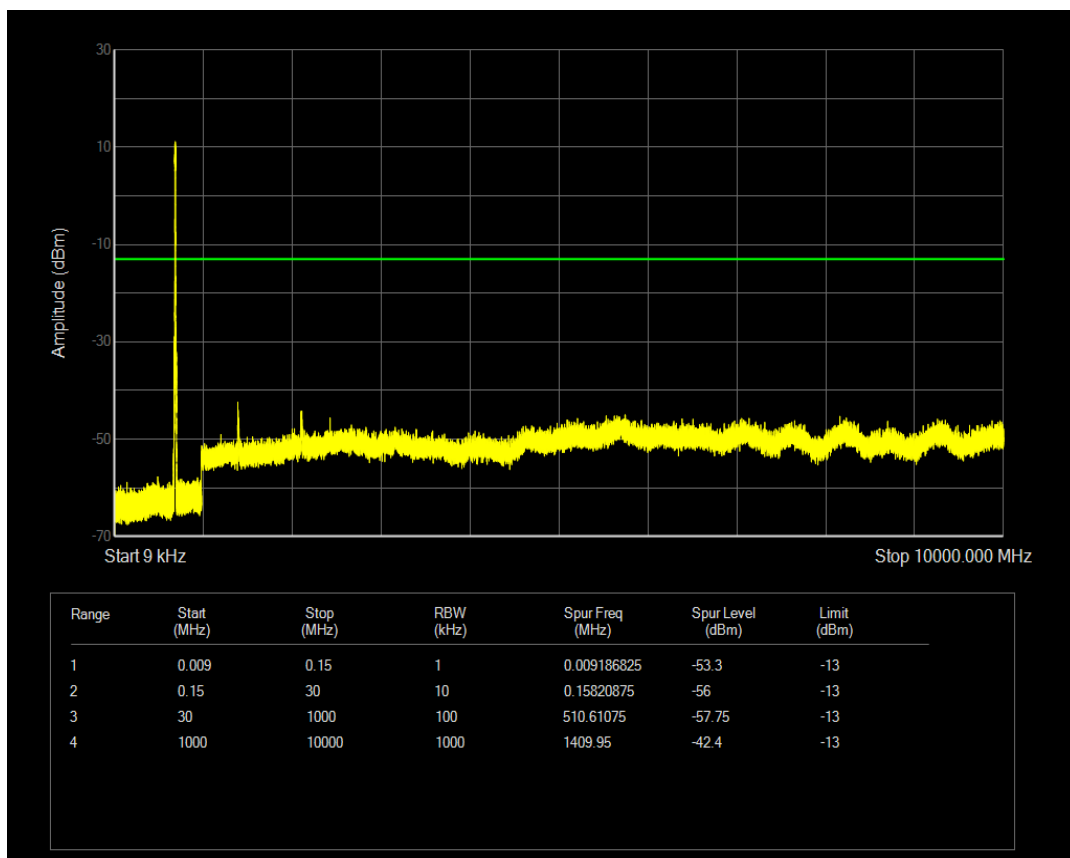


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009962325	-54.91	-13
2	0.15	30	10	0.15970125	-55.45	-13
3	30	1000	100	500.3045	-57.64	-13
4	1000	10000	1000	2118.925	-41.02	-13

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

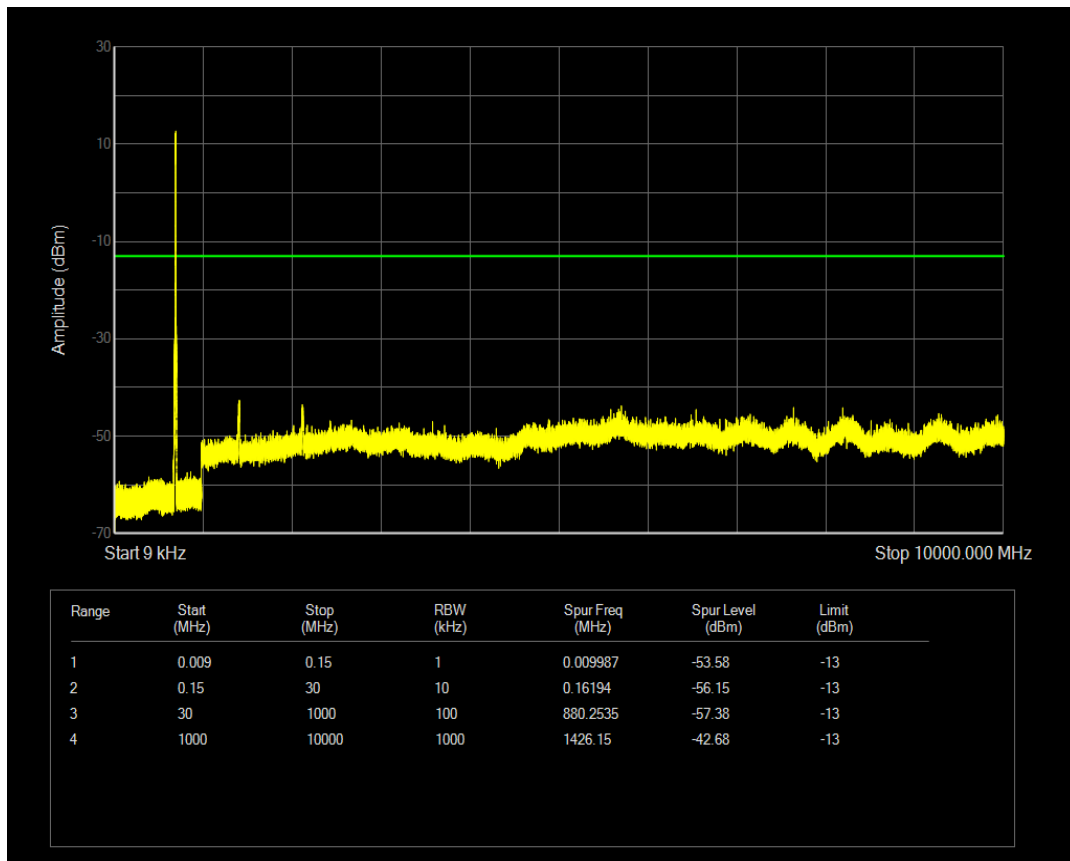


Band12 QAM16 BW=10MHz Channel=23095 RB Size=50 Position=#0





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



Band12 QAM16 BW=10MHz Channel=23130 RB Size=50 Position=#0

