

Appendix for Band 17

Report No.: BCTC2312391622-3E

Applicant: Telecell Mobile (H.K) Ltd.

Product Name: LTE Bar Phone

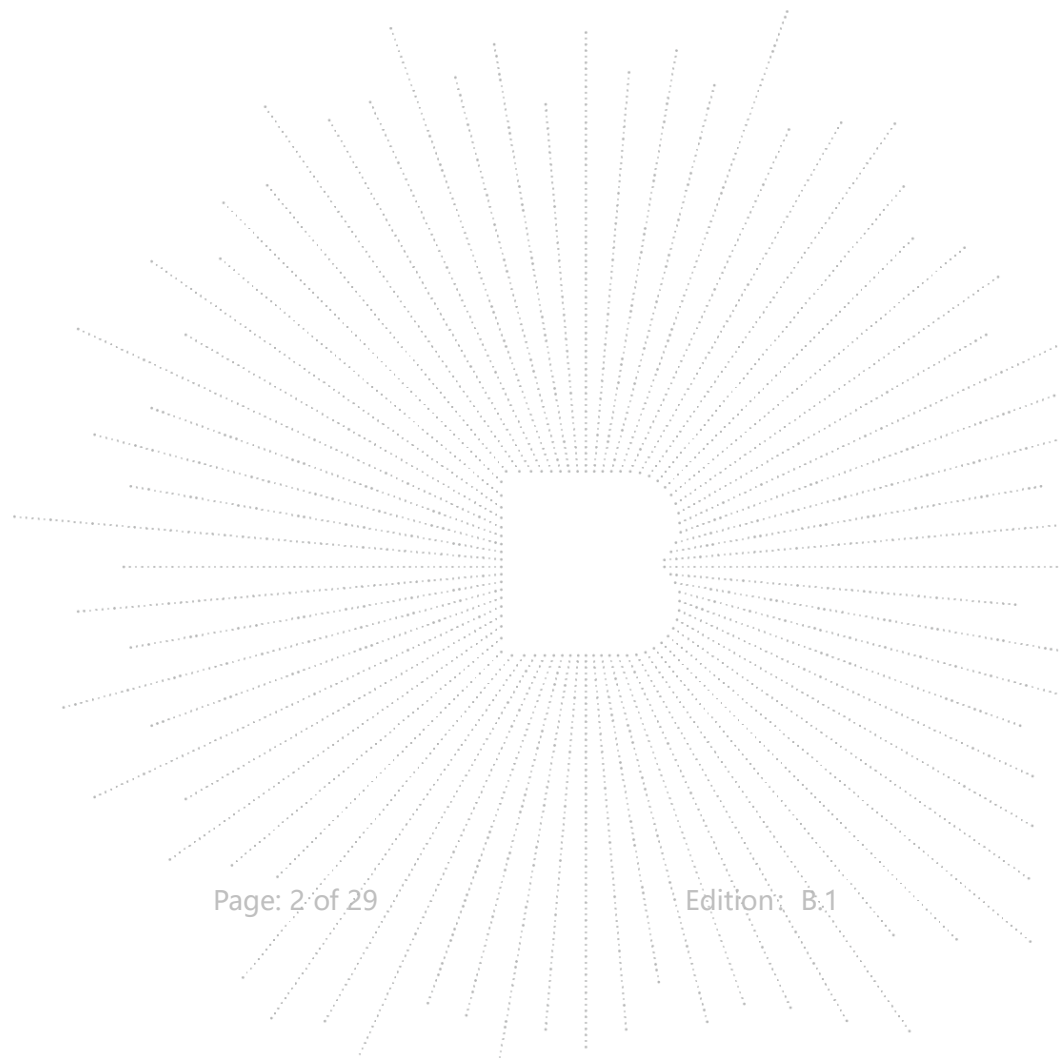
Test Model: FURY LTE T1

Tested Date: 2023-12-29 to 2024-01-11

Shenzhen BCTC Testing Co., Ltd.

Contents

Appendix 1. Effective Radiated Power and Effective Isotropic Radiated Power Measurement	3
Appendix 2. Frequency stability.....	5
Appendix 3. Peak-to-Average Ratio	8
Appendix 4. Occupied bandwidth	14
Appendix 5. Band edge	20
Appendix 6. Out-of-band emissions	24



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
Band17	5	23755	1	#0	QPSK	22.78	-1.6	19.03	PASS
Band17	5	23755	1	#Mid	QPSK	22.73	-1.6	18.98	PASS
Band17	5	23755	1	#Max	QPSK	22.85	-1.6	19.10	PASS
Band17	5	23755	12	#0	QPSK	21.87	-1.6	18.12	PASS
Band17	5	23755	12	#Mid	QPSK	21.72	-1.6	17.97	PASS
Band17	5	23755	12	#Max	QPSK	21.85	-1.6	18.10	PASS
Band17	5	23755	25	#0	QPSK	21.70	-1.6	17.95	PASS
Band17	5	23755	1	#0	16QAM	21.98	-1.6	18.23	PASS
Band17	5	23755	1	#Mid	16QAM	21.73	-1.6	17.98	PASS
Band17	5	23755	1	#Max	16QAM	21.92	-1.6	18.17	PASS
Band17	5	23755	12	#0	16QAM	20.72	-1.6	16.97	PASS
Band17	5	23755	12	#Mid	16QAM	20.62	-1.6	16.87	PASS
Band17	5	23755	12	#Max	16QAM	21.16	-1.6	17.41	PASS
Band17	5	23755	25	#0	16QAM	20.90	-1.6	17.15	PASS
Band17	5	23790	1	#0	QPSK	22.72	-1.6	18.97	PASS
Band17	5	23790	1	#Mid	QPSK	22.73	-1.6	18.98	PASS
Band17	5	23790	1	#Max	QPSK	22.67	-1.6	18.92	PASS
Band17	5	23790	12	#0	QPSK	21.81	-1.6	18.06	PASS
Band17	5	23790	12	#Mid	QPSK	22.03	-1.6	18.28	PASS
Band17	5	23790	12	#Max	QPSK	21.82	-1.6	18.07	PASS
Band17	5	23790	25	#0	QPSK	22.00	-1.6	18.25	PASS
Band17	5	23790	1	#0	16QAM	21.54	-1.6	17.79	PASS
Band17	5	23790	1	#Mid	16QAM	21.48	-1.6	17.73	PASS
Band17	5	23790	1	#Max	16QAM	21.46	-1.6	17.71	PASS
Band17	5	23790	12	#0	16QAM	21.07	-1.6	17.32	PASS
Band17	5	23790	12	#Mid	16QAM	21.11	-1.6	17.36	PASS
Band17	5	23790	12	#Max	16QAM	20.55	-1.6	16.80	PASS
Band17	5	23790	25	#0	16QAM	21.33	-1.6	17.58	PASS
Band17	5	23825	1	#0	QPSK	22.72	-1.6	18.97	PASS
Band17	5	23825	1	#Mid	QPSK	22.60	-1.6	18.85	PASS
Band17	5	23825	1	#Max	QPSK	22.75	-1.6	19.00	PASS
Band17	5	23825	12	#0	QPSK	21.87	-1.6	18.12	PASS
Band17	5	23825	12	#Mid	QPSK	22.07	-1.6	18.32	PASS
Band17	5	23825	12	#Max	QPSK	21.78	-1.6	18.03	PASS
Band17	5	23825	25	#0	QPSK	21.99	-1.6	18.24	PASS

Band17	5	23825	1	#0	16QAM	21.68	-1.6	17.93	PASS
Band17	5	23825	1	#Mid	16QAM	21.78	-1.6	18.03	PASS
Band17	5	23825	1	#Max	16QAM	21.69	-1.6	17.94	PASS
Band17	5	23825	12	#0	16QAM	20.54	-1.6	16.79	PASS
Band17	5	23825	12	#Mid	16QAM	21.03	-1.6	17.28	PASS
Band17	5	23825	12	#Max	16QAM	21.07	-1.6	17.32	PASS
Band17	5	23825	25	#0	16QAM	21.24	-1.6	17.49	PASS
Band17	10	23780	1	#0	QPSK	22.75	-1.6	19.00	PASS
Band17	10	23780	1	#Mid	QPSK	22.77	-1.6	19.02	PASS
Band17	10	23780	1	#Max	QPSK	22.65	-1.6	18.90	PASS
Band17	10	23780	25	#0	QPSK	21.62	-1.6	17.87	PASS
Band17	10	23780	25	#Mid	QPSK	21.90	-1.6	18.15	PASS
Band17	10	23780	25	#Max	QPSK	21.84	-1.6	18.09	PASS
Band17	10	23780	50	#0	QPSK	21.86	-1.6	18.11	PASS
Band17	10	23790	1	#0	QPSK	22.77	-1.6	19.02	PASS
Band17	10	23790	1	#Mid	QPSK	22.77	-1.6	19.02	PASS
Band17	10	23790	1	#Max	QPSK	22.73	-1.6	18.98	PASS
Band17	10	23790	25	#0	QPSK	21.98	-1.6	18.23	PASS
Band17	10	23790	25	#Mid	QPSK	22.00	-1.6	18.25	PASS
Band17	10	23790	25	#Max	QPSK	21.72	-1.6	17.97	PASS
Band17	10	23790	50	#0	QPSK	22.04	-1.6	18.29	PASS
Band17	10	23800	1	#0	QPSK	22.80	-1.6	19.05	PASS
Band17	10	23800	1	#Mid	QPSK	22.90	-1.6	19.15	PASS
Band17	10	23800	1	#Max	QPSK	22.95	-1.6	19.20	PASS
Band17	10	23800	25	#0	QPSK	21.96	-1.6	18.21	PASS
Band17	10	23800	25	#Mid	QPSK	21.97	-1.6	18.22	PASS
Band17	10	23800	25	#Max	QPSK	21.83	-1.6	18.08	PASS
Band17	10	23800	50	#0	QPSK	21.97	-1.6	18.22	PASS

Appendix 2. Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperatue (C)	Result (Hz)	Result (ppm)	Verdict
Band17	5	23755	25	#0	QPSK	LV	NT	-3.89	-0.006	PASS
Band17	5	23755	25	#0	QPSK	NV	NT	-6.91	-0.010	PASS
Band17	5	23755	25	#0	QPSK	HV	NT	-7.61	-0.011	PASS
Band17	5	23755	25	#0	16QAM	LV	NT	-10.31	-0.015	PASS
Band17	5	23755	25	#0	16QAM	NV	NT	-9.13	-0.013	PASS
Band17	5	23755	25	#0	16QAM	HV	NT	-8.71	-0.012	PASS
Band17	5	23790	25	#0	QPSK	LV	NT	-0.29	0.000	PASS
Band17	5	23790	25	#0	QPSK	NV	NT	-1.09	-0.002	PASS
Band17	5	23790	25	#0	QPSK	HV	NT	-1.16	-0.002	PASS
Band17	5	23790	25	#0	16QAM	LV	NT	-1.44	-0.002	PASS
Band17	5	23790	25	#0	16QAM	NV	NT	1.17	0.002	PASS
Band17	5	23790	25	#0	16QAM	HV	NT	1.14	0.002	PASS
Band17	5	23825	25	#0	QPSK	LV	NT	0.27	0.000	PASS
Band17	5	23825	25	#0	QPSK	NV	NT	0.93	0.001	PASS
Band17	5	23825	25	#0	QPSK	HV	NT	0.36	0.001	PASS
Band17	5	23825	25	#0	16QAM	LV	NT	0.53	0.001	PASS
Band17	5	23825	25	#0	16QAM	NV	NT	1.95	0.003	PASS
Band17	5	23825	25	#0	16QAM	HV	NT	2.20	0.003	PASS
Band17	10	23780	50	#0	QPSK	LV	NT	-2.37	-0.003	PASS
Band17	10	23780	50	#0	QPSK	NV	NT	-4.22	-0.006	PASS
Band17	10	23780	50	#0	QPSK	HV	NT	-5.28	-0.007	PASS
Band17	10	23790	50	#0	QPSK	LV	NT	-0.80	-0.001	PASS
Band17	10	23790	50	#0	QPSK	NV	NT	-1.49	-0.002	PASS
Band17	10	23790	50	#0	QPSK	HV	NT	-1.12	-0.002	PASS
Band17	10	23800	50	#0	QPSK	LV	NT	-7.11	-0.010	PASS
Band17	10	23800	50	#0	QPSK	NV	NT	-8.14	-0.011	PASS
Band17	10	23800	50	#0	QPSK	HV	NT	-7.21	-0.010	PASS

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperatue (C)	Result (Hz)	Result (ppm)	Verdict
Band17	5	23755	25	#0	QPSK	NV	-30	-1.16	-0.002	PASS
Band17	5	23755	25	#0	QPSK	NV	-20	7.02	0.010	PASS
Band17	5	23755	25	#0	QPSK	NV	-10	15.21	0.022	PASS
Band17	5	23755	25	#0	QPSK	NV	0	25.26	0.036	PASS
Band17	5	23755	25	#0	QPSK	NV	10	34.75	0.049	PASS
Band17	5	23755	25	#0	QPSK	NV	20	45.66	0.065	PASS
Band17	5	23755	25	#0	QPSK	NV	30	5.25	0.007	PASS

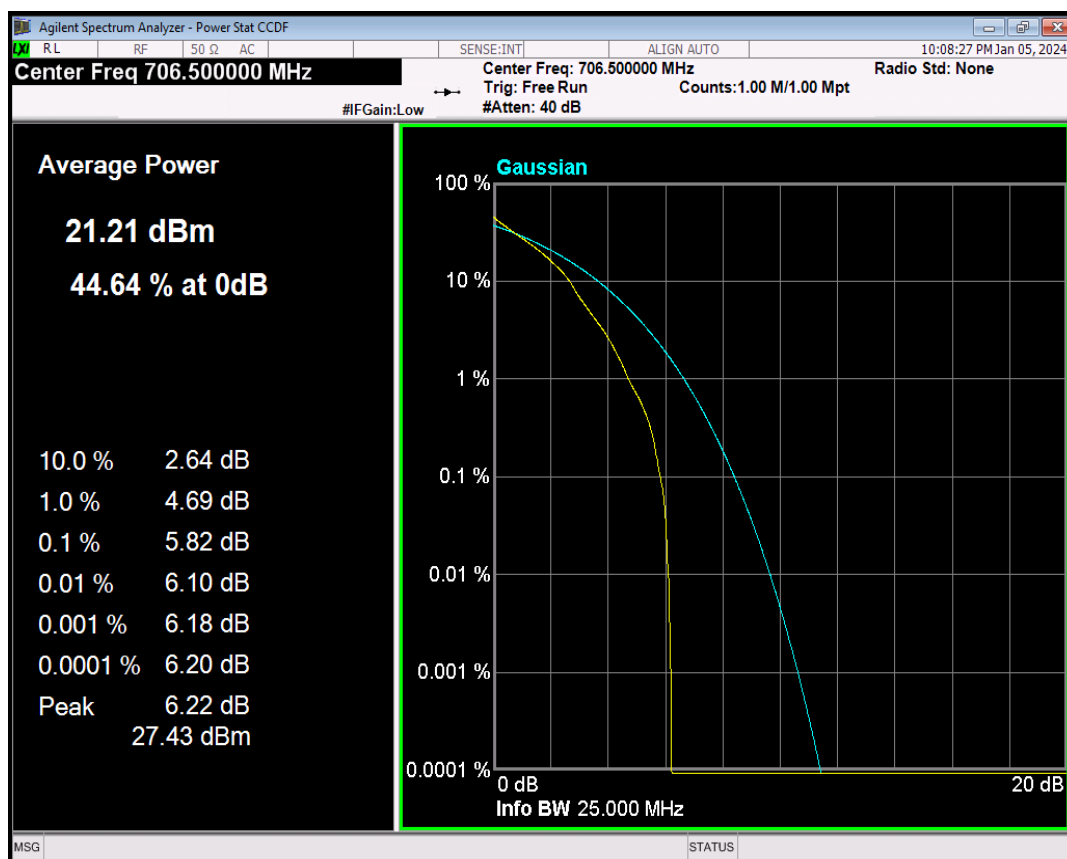
Band17	5	23755	25	#0	QPSK	NV	40	16.57	0.023	PASS
Band17	5	23755	25	#0	QPSK	NV	50	24.60	0.035	PASS
Band17	5	23755	25	#0	16QAM	NV	-30	34.23	0.048	PASS
Band17	5	23755	25	#0	16QAM	NV	-20	45.25	0.064	PASS
Band17	5	23755	25	#0	16QAM	NV	-10	7.50	0.011	PASS
Band17	5	23755	25	#0	16QAM	NV	0	13.28	0.019	PASS
Band17	5	23755	25	#0	16QAM	NV	10	17.64	0.025	PASS
Band17	5	23755	25	#0	16QAM	NV	20	21.60	0.031	PASS
Band17	5	23755	25	#0	16QAM	NV	30	25.71	0.036	PASS
Band17	5	23755	25	#0	16QAM	NV	40	29.44	0.042	PASS
Band17	5	23755	25	#0	16QAM	NV	50	34.42	0.049	PASS
Band17	5	23790	25	#0	QPSK	NV	-30	11.03	0.016	PASS
Band17	5	23790	25	#0	QPSK	NV	-20	14.29	0.020	PASS
Band17	5	23790	25	#0	QPSK	NV	-10	19.03	0.027	PASS
Band17	5	23790	25	#0	QPSK	NV	0	26.16	0.037	PASS
Band17	5	23790	25	#0	QPSK	NV	10	34.22	0.048	PASS
Band17	5	23790	25	#0	QPSK	NV	20	39.40	0.055	PASS
Band17	5	23790	25	#0	QPSK	NV	30	47.65	0.067	PASS
Band17	5	23790	25	#0	QPSK	NV	40	2.06	0.003	PASS
Band17	5	23790	25	#0	QPSK	NV	50	10.51	0.015	PASS
Band17	5	23790	25	#0	16QAM	NV	-30	18.21	0.026	PASS
Band17	5	23790	25	#0	16QAM	NV	-20	25.46	0.036	PASS
Band17	5	23790	25	#0	16QAM	NV	-10	31.33	0.044	PASS
Band17	5	23790	25	#0	16QAM	NV	0	34.05	0.048	PASS
Band17	5	23790	25	#0	16QAM	NV	10	37.16	0.052	PASS
Band17	5	23790	25	#0	16QAM	NV	20	40.35	0.057	PASS
Band17	5	23790	25	#0	16QAM	NV	30	43.64	0.061	PASS
Band17	5	23790	25	#0	16QAM	NV	40	46.49	0.065	PASS
Band17	5	23790	25	#0	16QAM	NV	50	46.61	0.066	PASS
Band17	5	23825	25	#0	QPSK	NV	-30	1.36	0.002	PASS
Band17	5	23825	25	#0	QPSK	NV	-20	4.78	0.007	PASS
Band17	5	23825	25	#0	QPSK	NV	-10	9.77	0.014	PASS
Band17	5	23825	25	#0	QPSK	NV	0	16.64	0.023	PASS
Band17	5	23825	25	#0	QPSK	NV	10	25.92	0.036	PASS
Band17	5	23825	25	#0	QPSK	NV	20	33.45	0.047	PASS
Band17	5	23825	25	#0	QPSK	NV	30	42.44	0.059	PASS
Band17	5	23825	25	#0	QPSK	NV	40	-1.27	-0.002	PASS
Band17	5	23825	25	#0	QPSK	NV	50	6.54	0.009	PASS
Band17	5	23825	25	#0	16QAM	NV	-30	15.84	0.022	PASS
Band17	5	23825	25	#0	16QAM	NV	-20	25.01	0.035	PASS
Band17	5	23825	25	#0	16QAM	NV	-10	30.71	0.043	PASS
Band17	5	23825	25	#0	16QAM	NV	0	35.81	0.050	PASS

Band17	5	23825	25	#0	16QAM	NV	10	39.20	0.055	PASS
Band17	5	23825	25	#0	16QAM	NV	20	12.92	0.018	PASS
Band17	5	23825	25	#0	16QAM	NV	30	3.62	0.005	PASS
Band17	5	23825	25	#0	16QAM	NV	40	6.39	0.009	PASS
Band17	5	23825	25	#0	16QAM	NV	50	11.39	0.016	PASS
Band17	10	23780	50	#0	QPSK	NV	-30	-11.13	-0.016	PASS
Band17	10	23780	50	#0	QPSK	NV	-20	-19.84	-0.028	PASS
Band17	10	23780	50	#0	QPSK	NV	-10	-22.26	-0.031	PASS
Band17	10	23780	50	#0	QPSK	NV	0	-22.43	-0.032	PASS
Band17	10	23780	50	#0	QPSK	NV	10	-20.61	-0.029	PASS
Band17	10	23780	50	#0	QPSK	NV	20	-18.15	-0.026	PASS
Band17	10	23780	50	#0	QPSK	NV	30	-13.93	-0.020	PASS
Band17	10	23780	50	#0	QPSK	NV	40	-11.53	-0.016	PASS
Band17	10	23780	50	#0	QPSK	NV	50	-8.08	-0.011	PASS
Band17	10	23790	50	#0	QPSK	NV	-30	-5.52	-0.008	PASS
Band17	10	23790	50	#0	QPSK	NV	-20	-3.00	-0.004	PASS
Band17	10	23790	50	#0	QPSK	NV	-10	0.99	0.001	PASS
Band17	10	23790	50	#0	QPSK	NV	0	5.85	0.008	PASS
Band17	10	23790	50	#0	QPSK	NV	10	9.30	0.013	PASS
Band17	10	23790	50	#0	QPSK	NV	20	14.76	0.021	PASS
Band17	10	23790	50	#0	QPSK	NV	30	20.13	0.028	PASS
Band17	10	23790	50	#0	QPSK	NV	40	22.32	0.031	PASS
Band17	10	23790	50	#0	QPSK	NV	50	28.08	0.040	PASS
Band17	10	23800	50	#0	QPSK	NV	-30	6.68	0.009	PASS
Band17	10	23800	50	#0	QPSK	NV	-20	9.88	0.014	PASS
Band17	10	23800	50	#0	QPSK	NV	-10	14.26	0.020	PASS
Band17	10	23800	50	#0	QPSK	NV	0	16.57	0.023	PASS
Band17	10	23800	50	#0	QPSK	NV	10	21.03	0.030	PASS
Band17	10	23800	50	#0	QPSK	NV	20	25.75	0.036	PASS
Band17	10	23800	50	#0	QPSK	NV	30	30.77	0.043	PASS
Band17	10	23800	50	#0	QPSK	NV	40	37.36	0.053	PASS
Band17	10	23800	50	#0	QPSK	NV	50	40.64	0.057	PASS

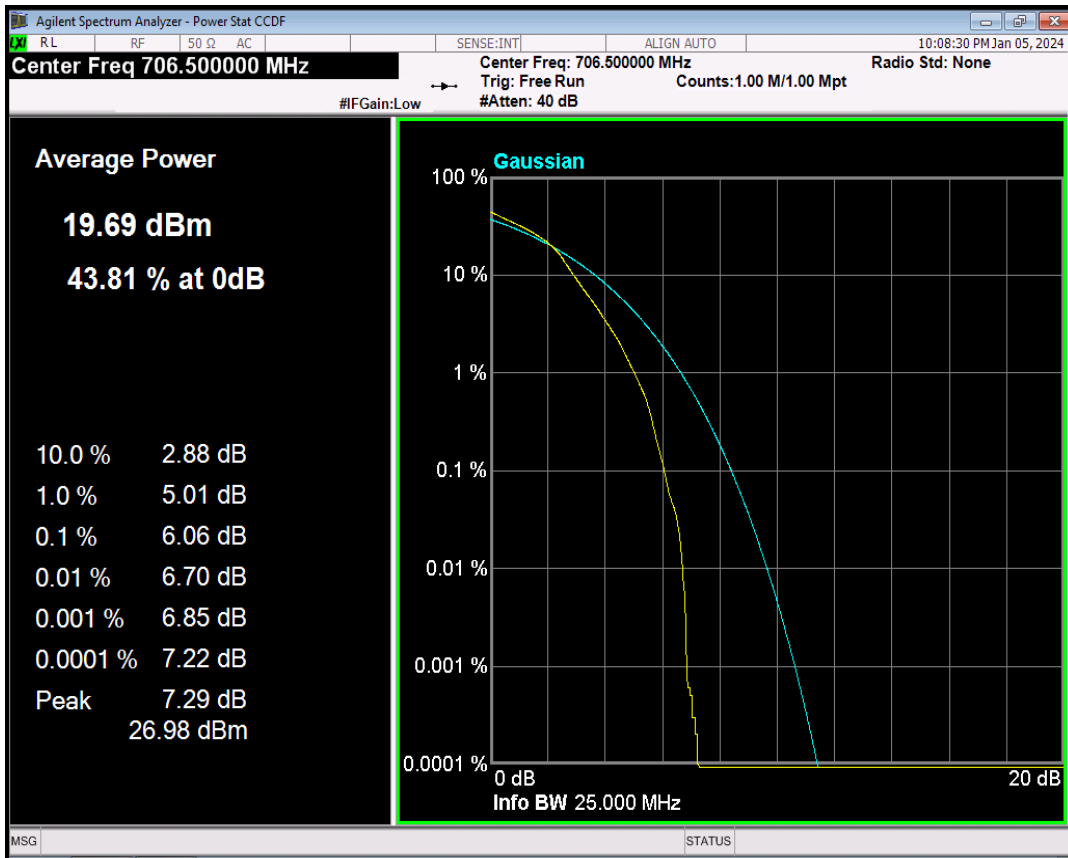
Appendix 3. Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band17	5	23755	1	#0	QPSK	5.82	13	PASS
Band17	5	23755	1	#0	16QAM	6.06	13	PASS
Band17	5	23790	1	#0	QPSK	4.89	13	PASS
Band17	5	23790	1	#0	16QAM	5.59	13	PASS
Band17	5	23825	1	#0	QPSK	5.58	13	PASS
Band17	5	23825	1	#0	16QAM	6.27	13	PASS
Band17	10	23780	1	#0	QPSK	5.49	13	PASS
Band17	10	23790	1	#0	QPSK	5.30	13	PASS
Band17	10	23800	1	#0	QPSK	4.94	13	PASS

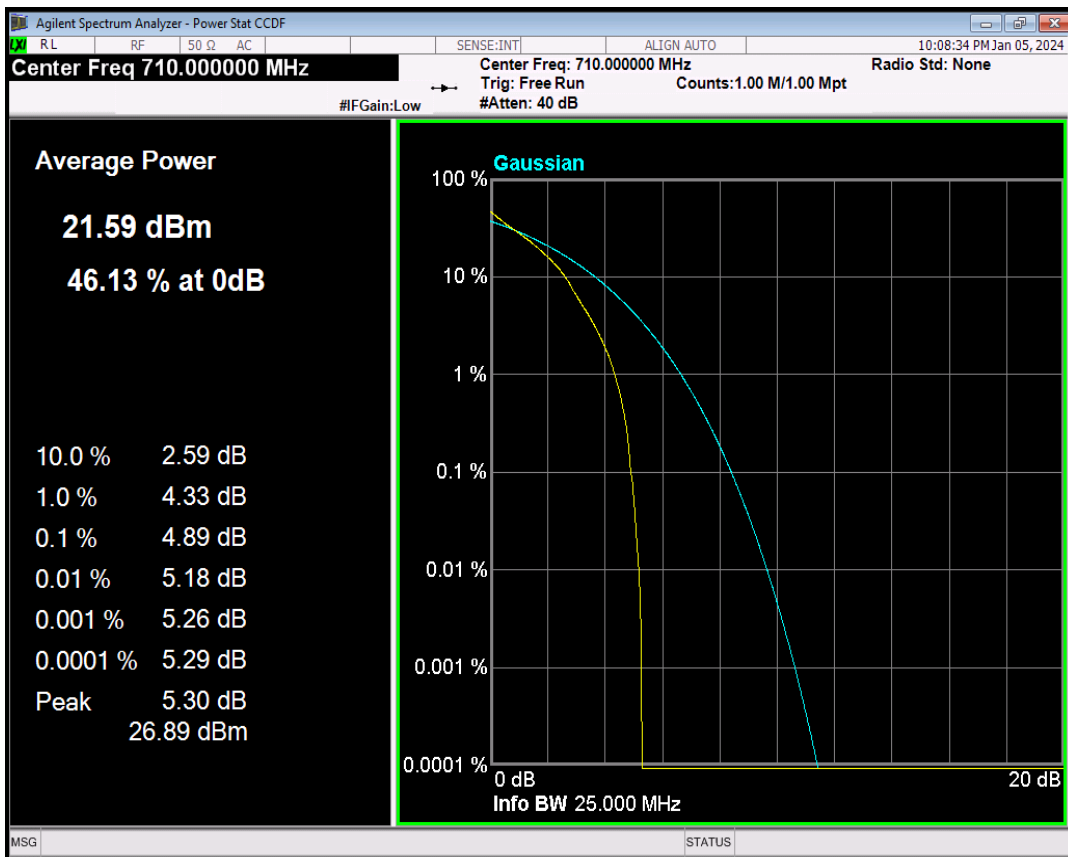
Band17 QPSK BW=5MHz Channel=23755 RB Size=1 Position=#0



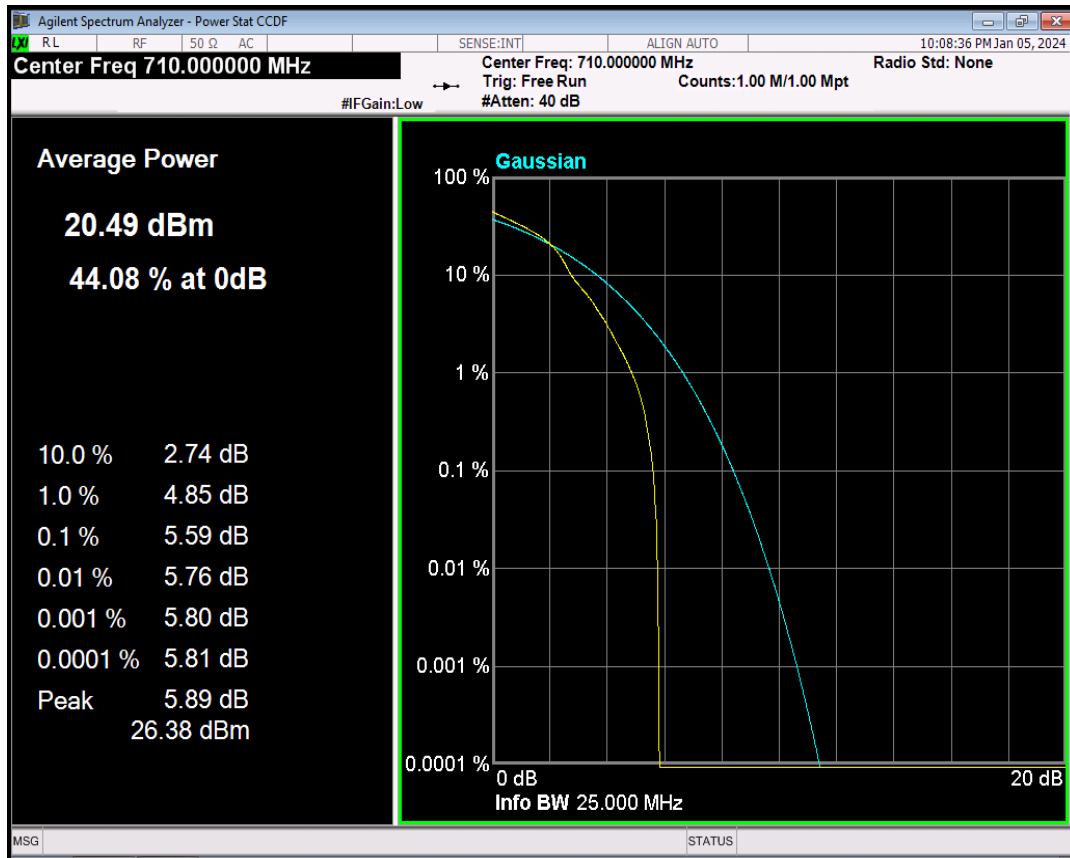
Band17 16QAM BW=5MHz Channel=23755 RB Size=1 Position=#0



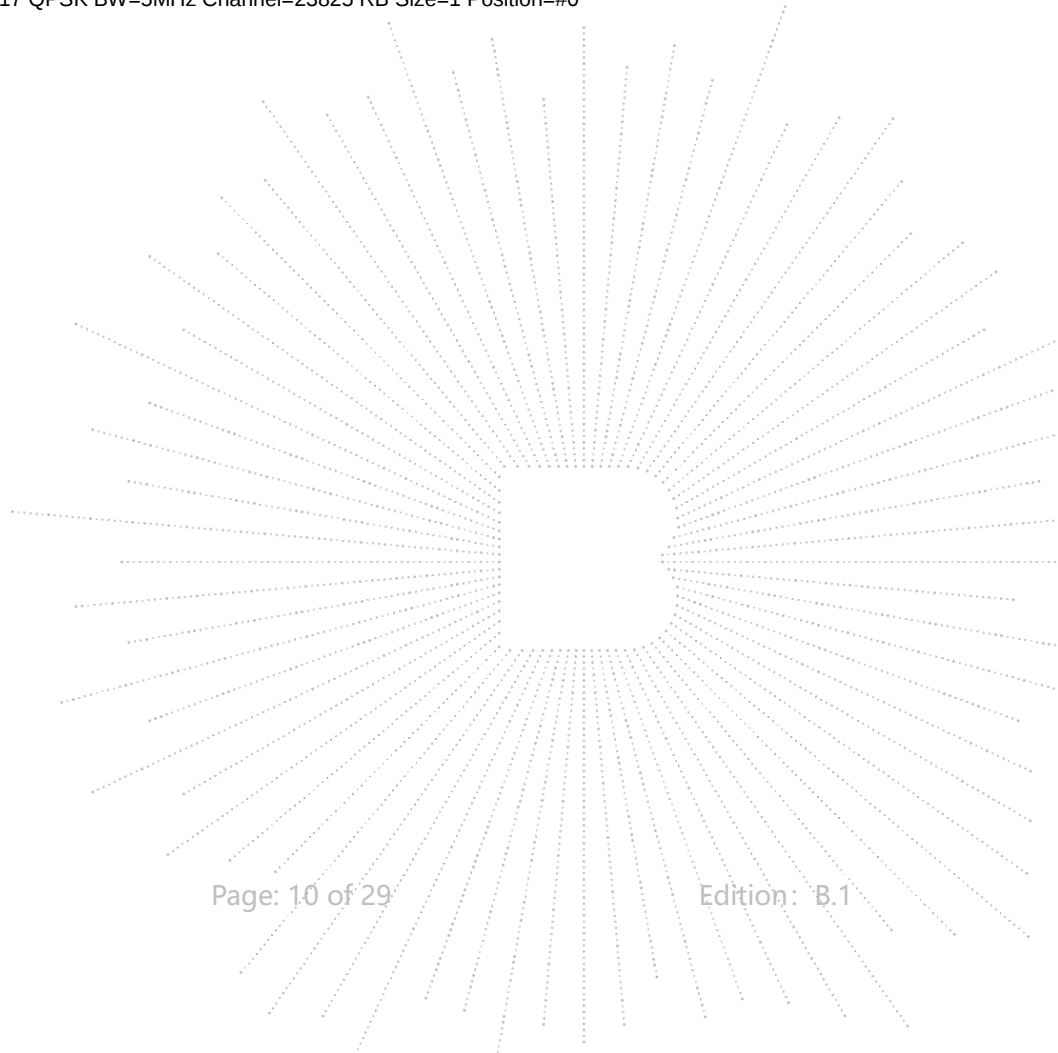
Band17 QPSK BW=5MHz Channel=23790 RB Size=1 Position=#0

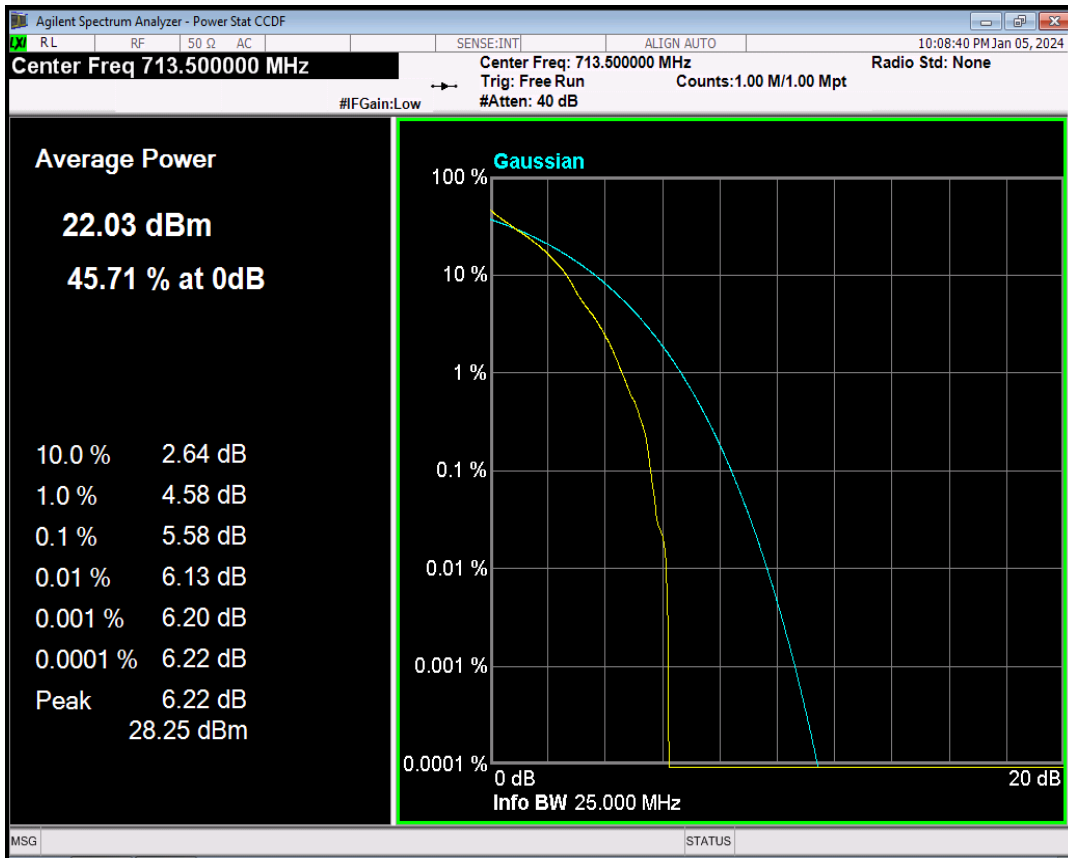


Band17 16QAM BW=5MHz Channel=23790 RB Size=1 Position=#0

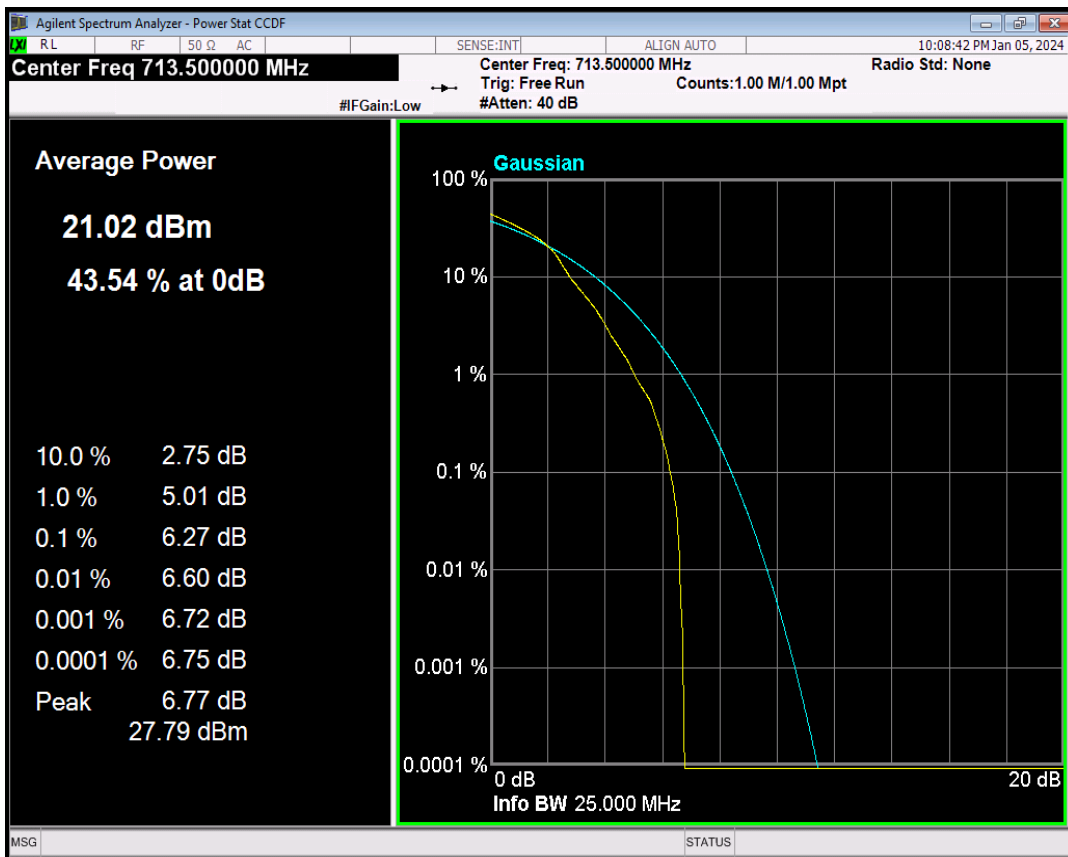


Band17 QPSK BW=5MHz Channel=23825 RB Size=1 Position=#0

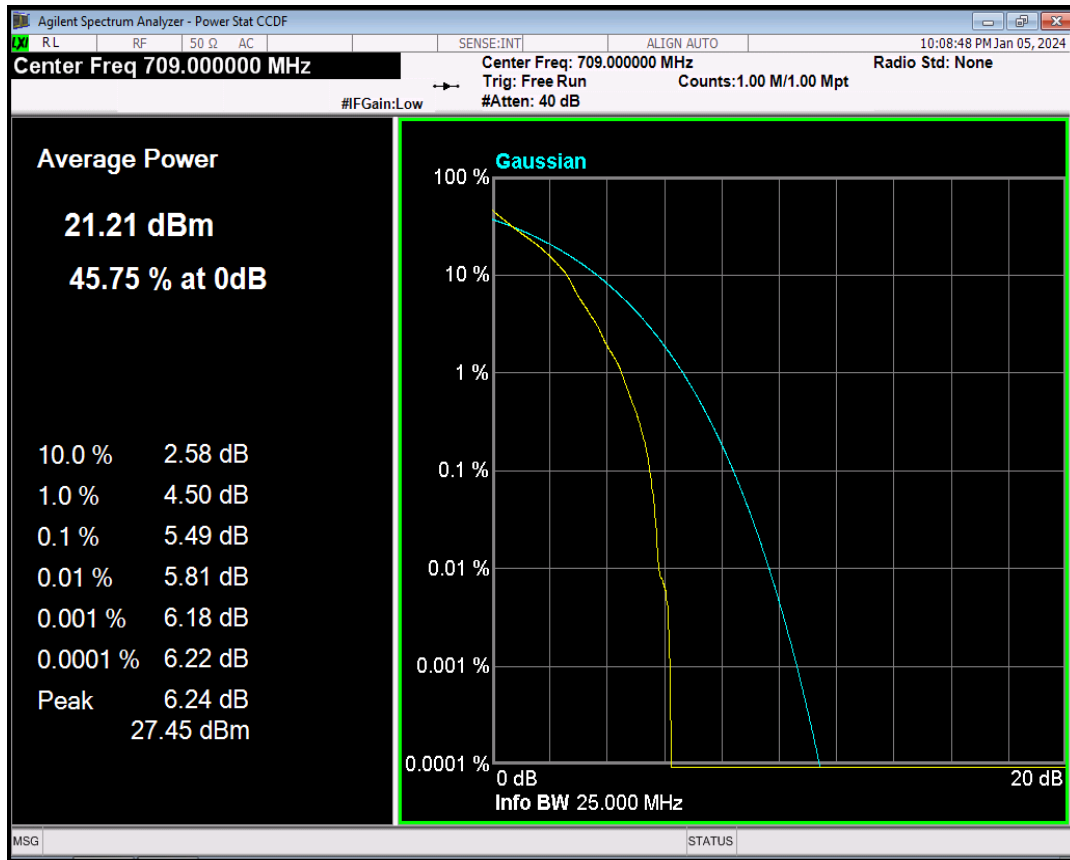




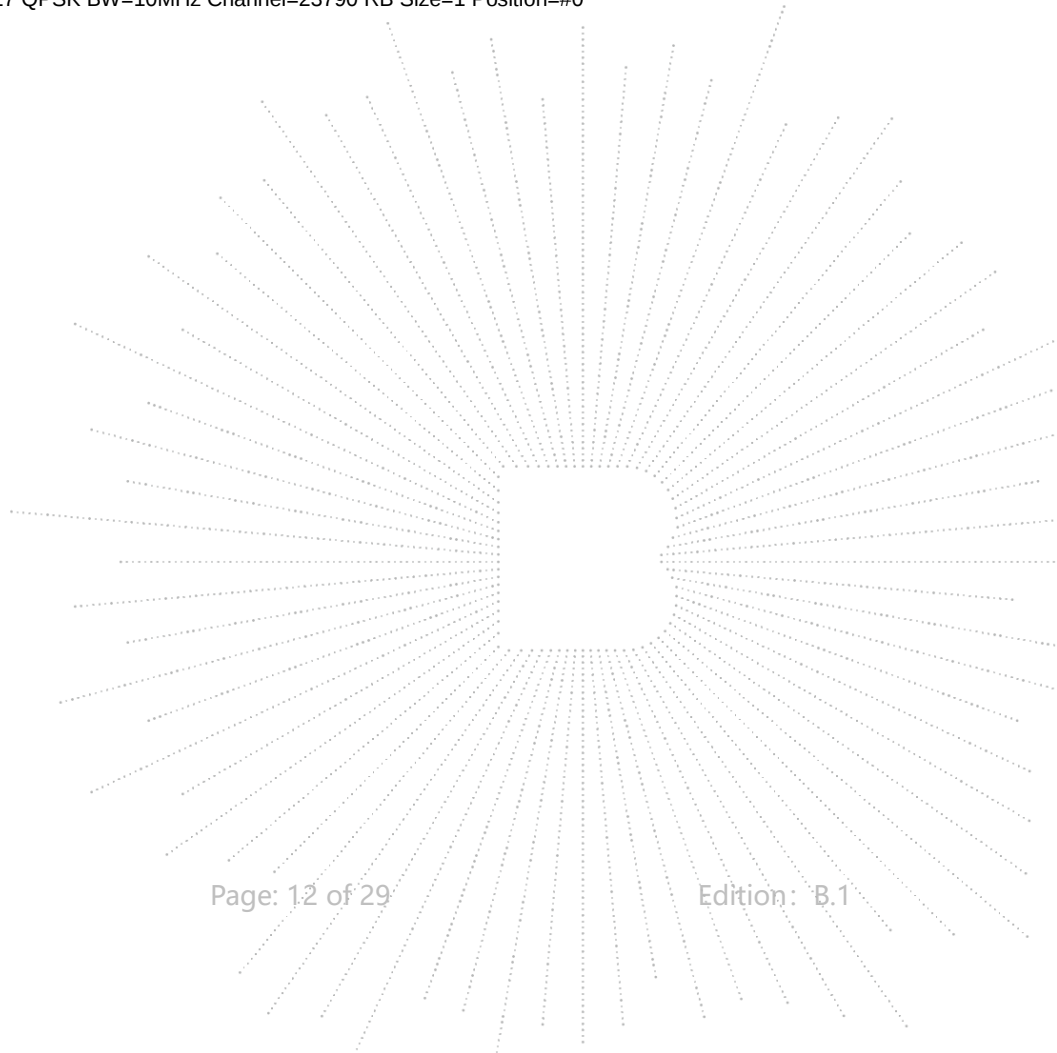
Band17 16QAM BW=5MHz Channel=23825 RB Size=1 Position=#0

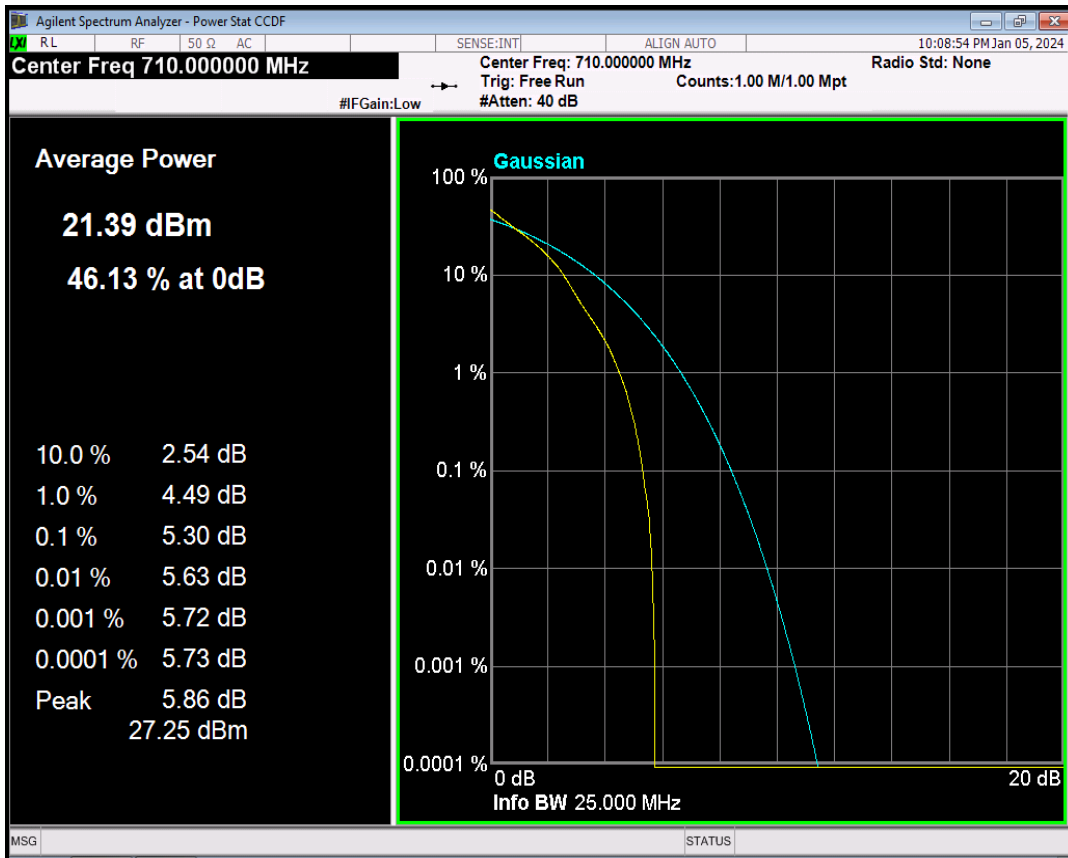


Band17 QPSK BW=10MHz Channel=23780 RB Size=1 Position=#0

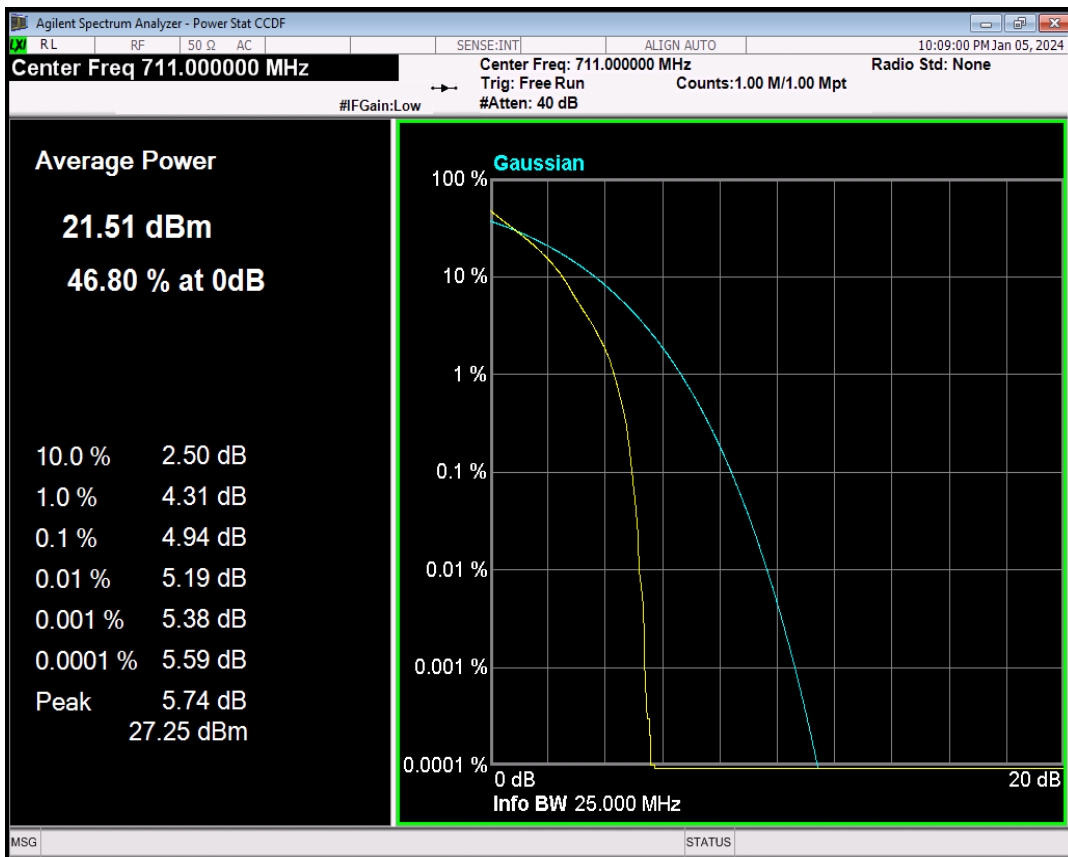


Band17 QPSK BW=10MHz Channel=23790 RB Size=1 Position=#0





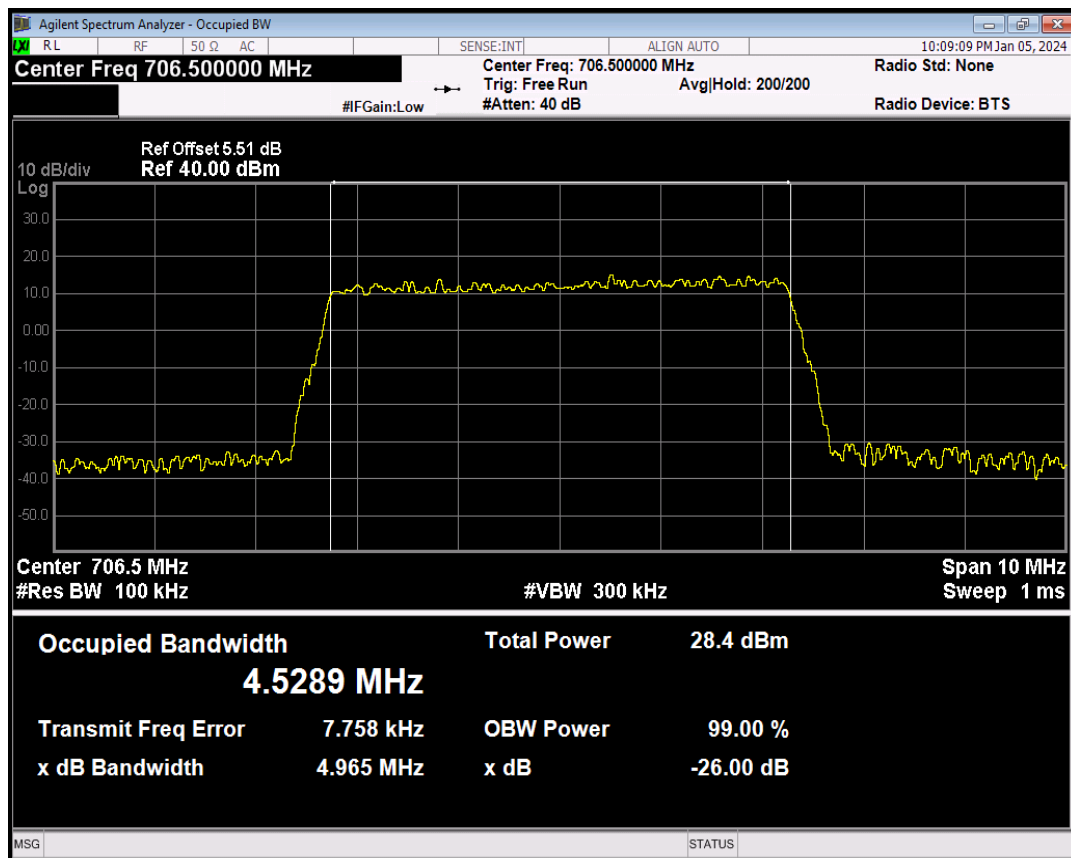
Band17 QPSK BW=10MHz Channel=23800 RB Size=1 Position=#0



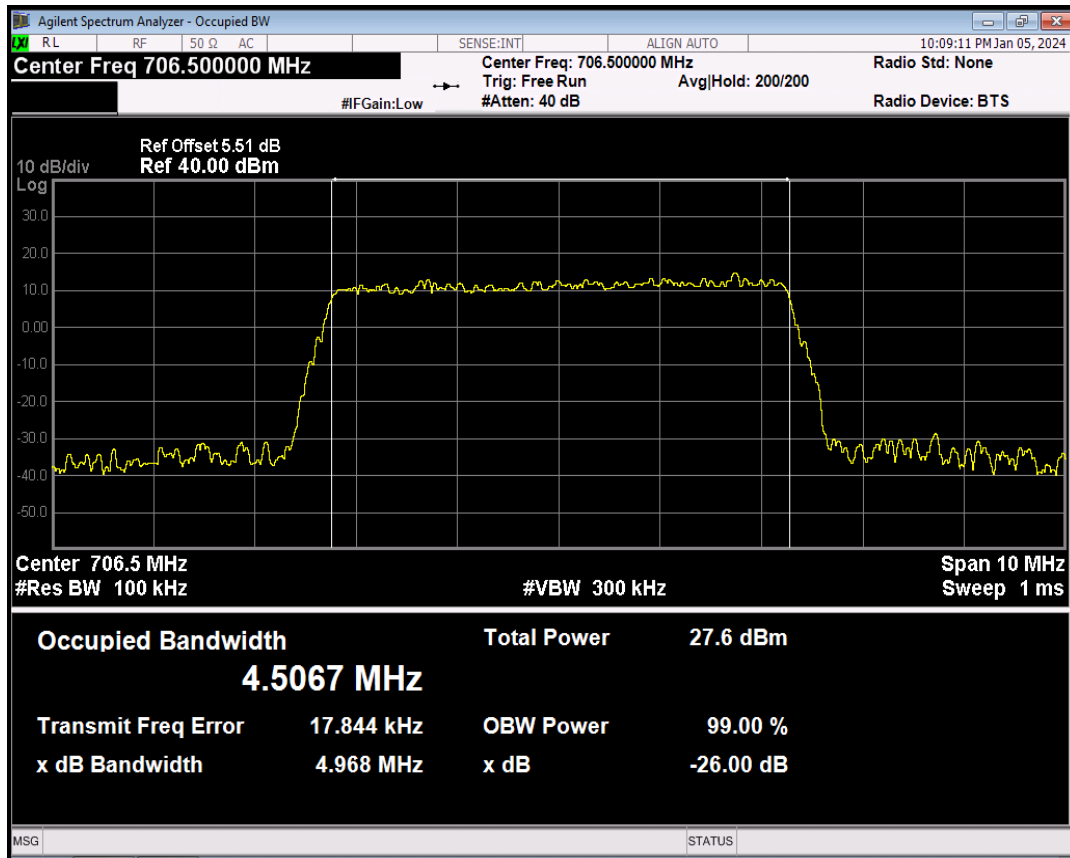
Appendix 4. Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band17	5	23755	25	#0	QPSK	4.529	4.965	PASS
Band17	5	23755	25	#0	16QAM	4.507	4.968	PASS
Band17	5	23790	25	#0	QPSK	4.499	4.888	PASS
Band17	5	23790	25	#0	16QAM	4.499	4.935	PASS
Band17	5	23825	25	#0	QPSK	4.520	4.945	PASS
Band17	5	23825	25	#0	16QAM	4.523	5.000	PASS
Band17	10	23780	50	#0	QPSK	8.915	9.795	PASS
Band17	10	23790	50	#0	QPSK	8.938	9.652	PASS
Band17	10	23800	50	#0	QPSK	8.998	9.839	PASS

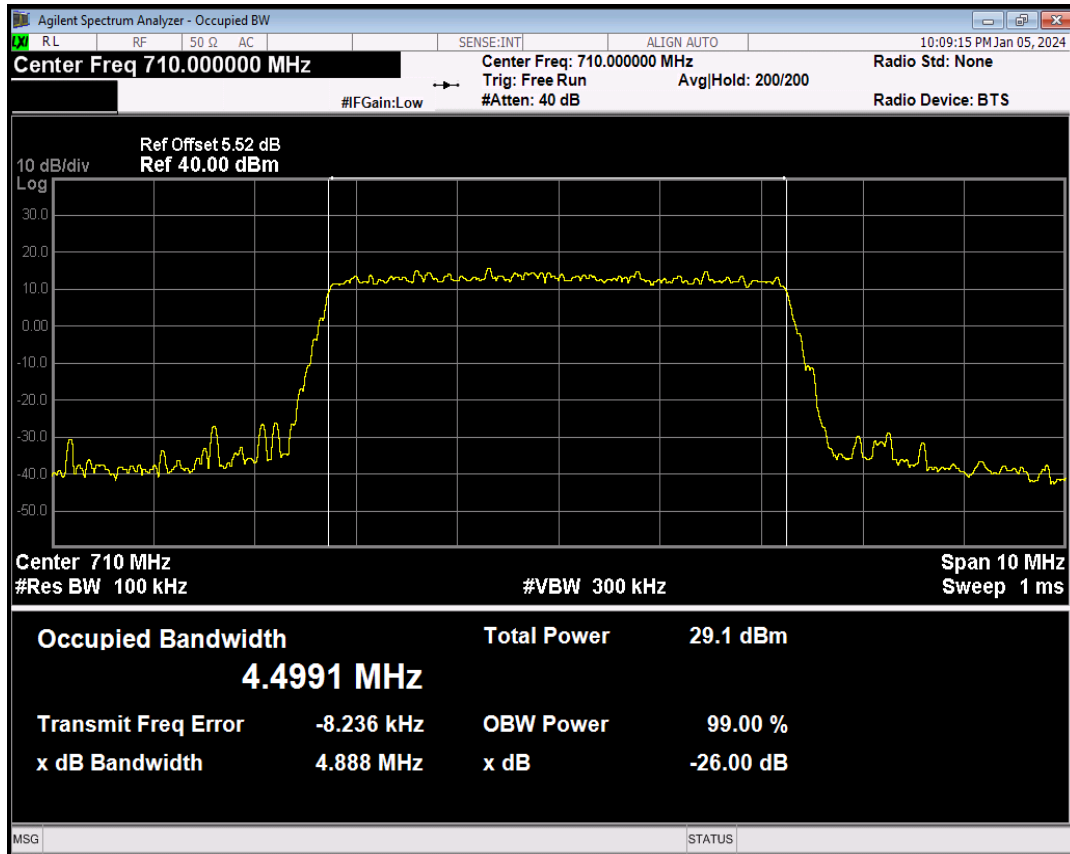
Band17 QPSK BW=5MHz Channel=23755 RB Size=25 Position=#0



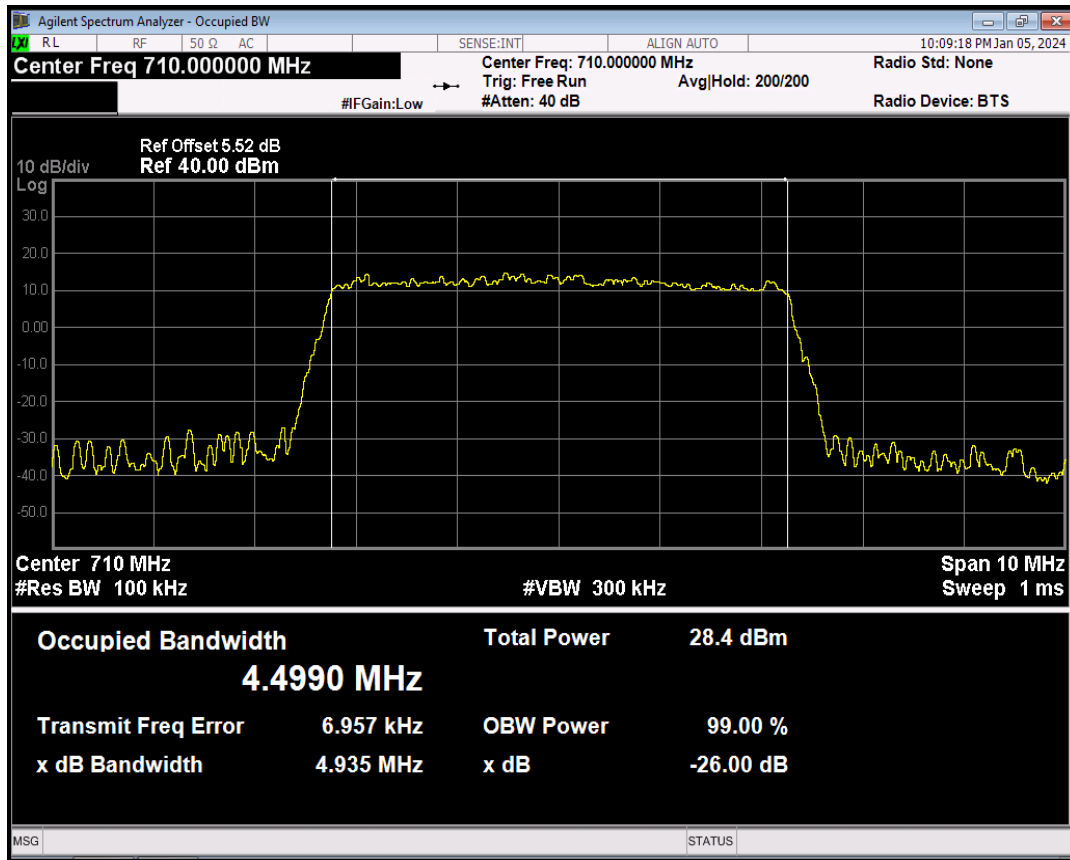
Band17 16QAM BW=5MHz Channel=23755 RB Size=25 Position=#0



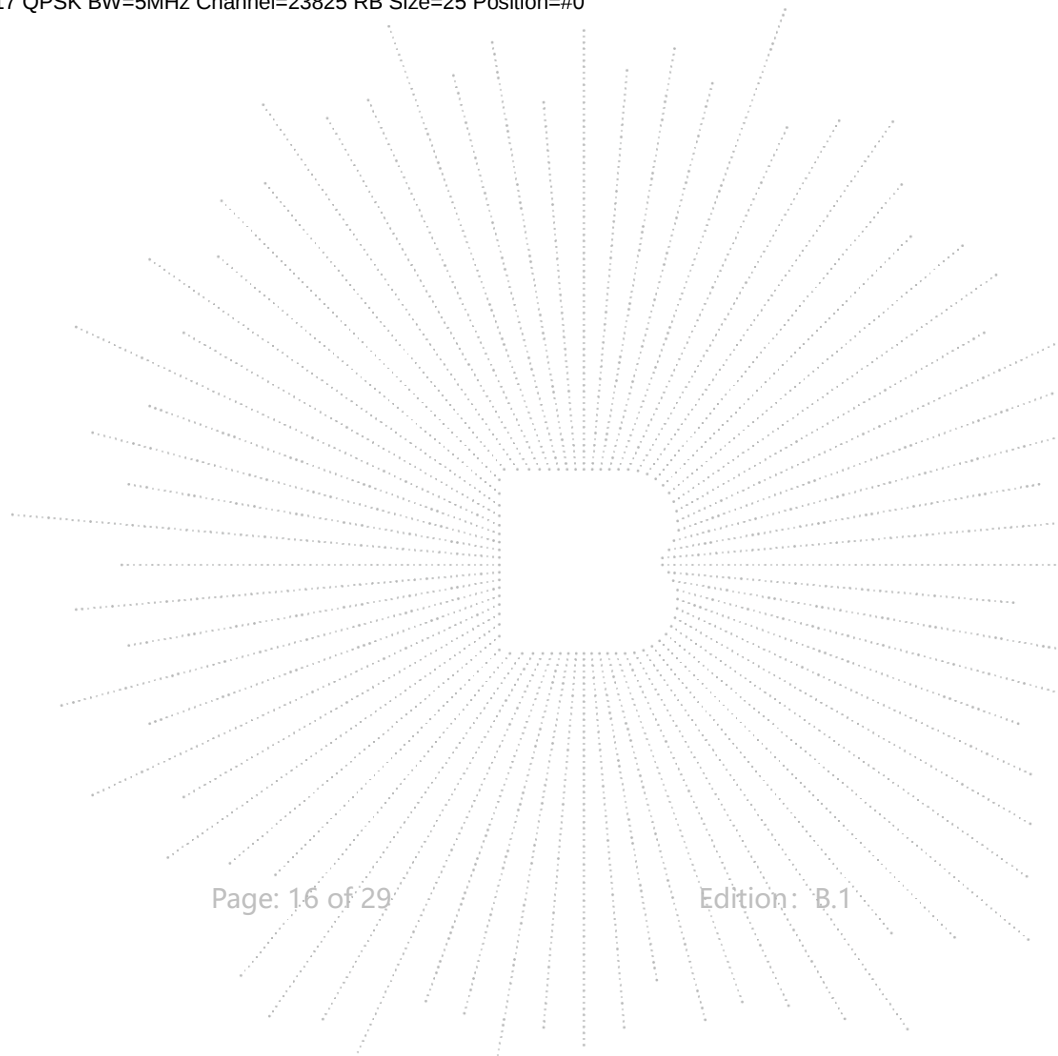
Band17 QPSK BW=5MHz Channel=23790 RB Size=25 Position=#0

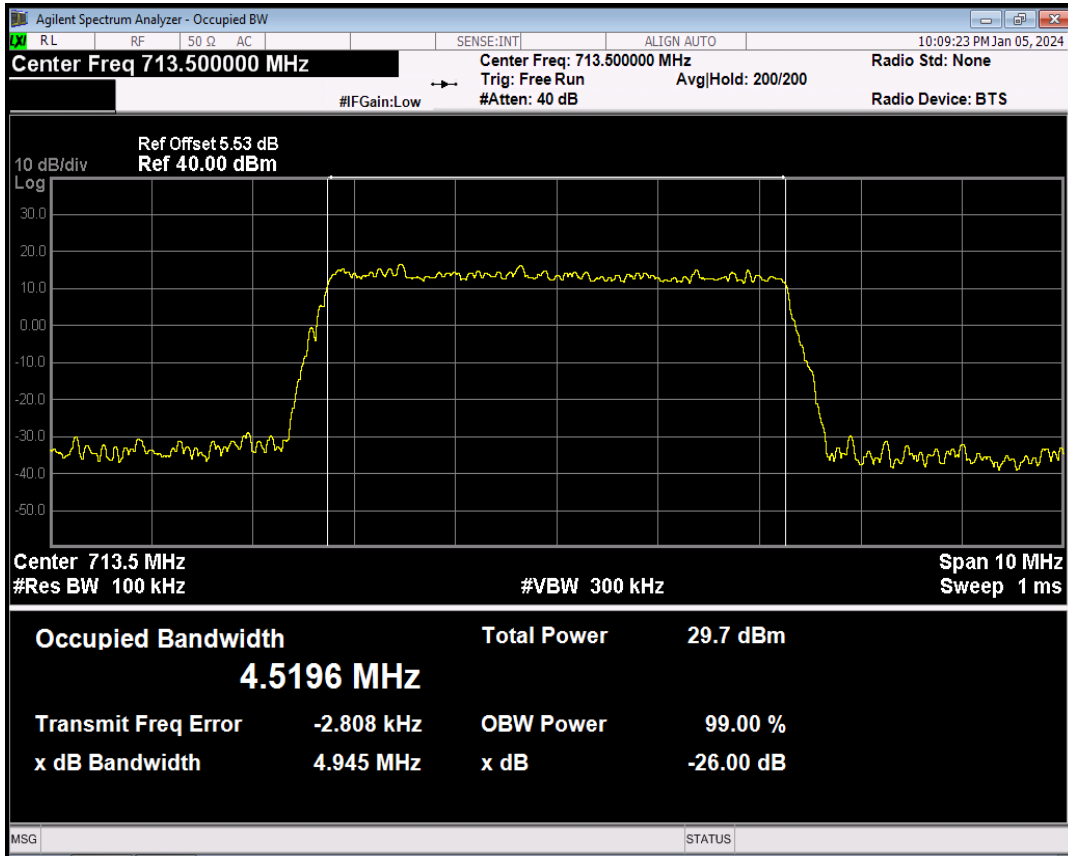


Band17 16QAM BW=5MHz Channel=23790 RB Size=25 Position=#0

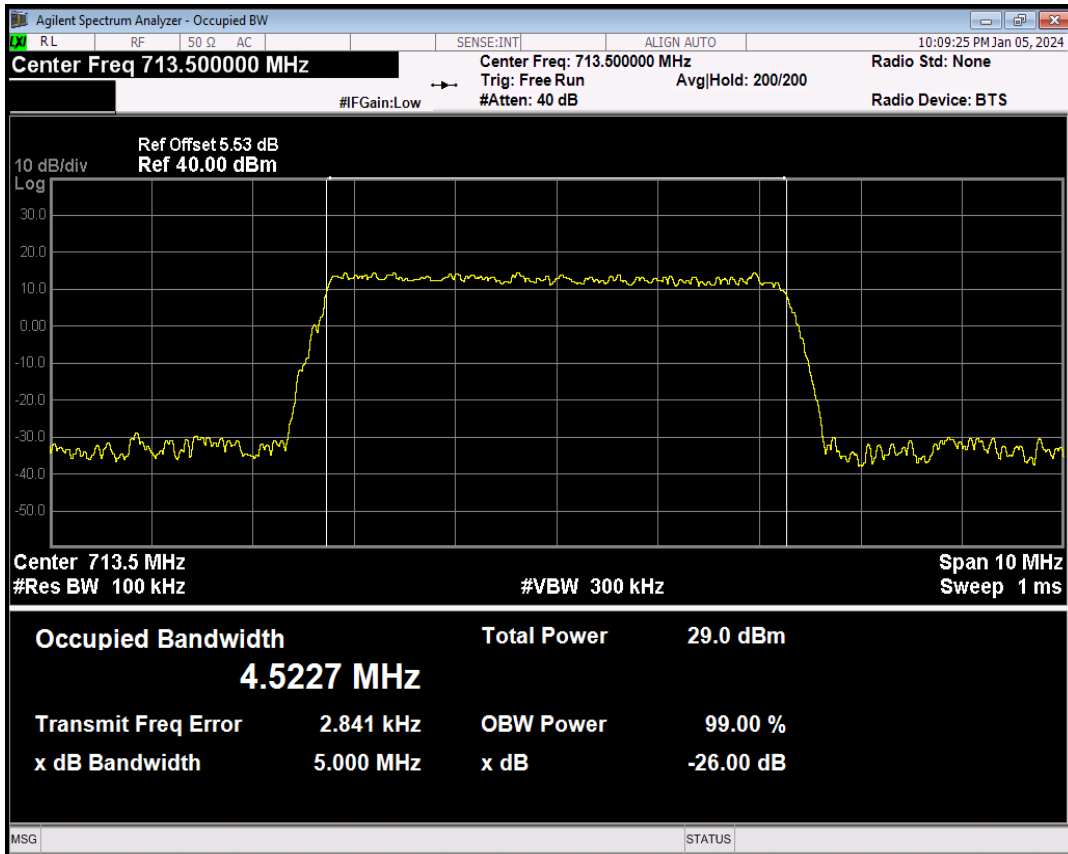


Band17 QPSK BW=5MHz Channel=23825 RB Size=25 Position=#0



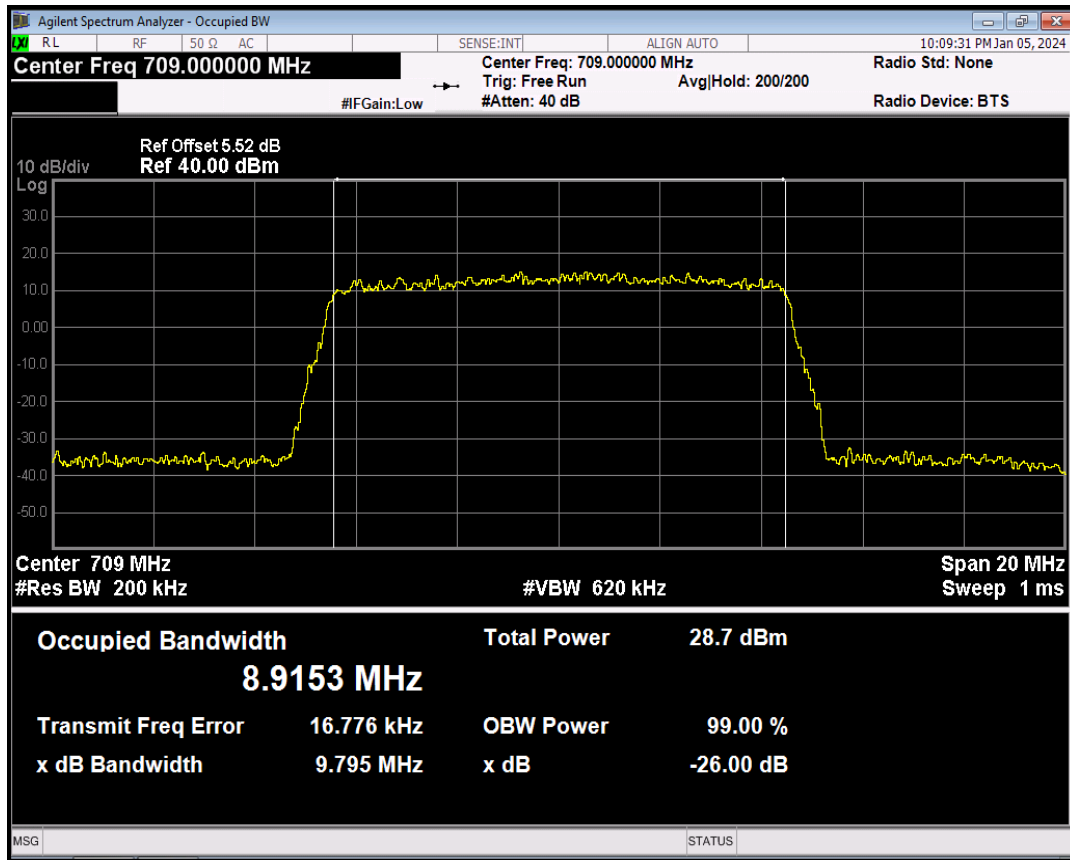


Band17 16QAM BW=5MHz Channel=23825 RB Size=25 Position=#0

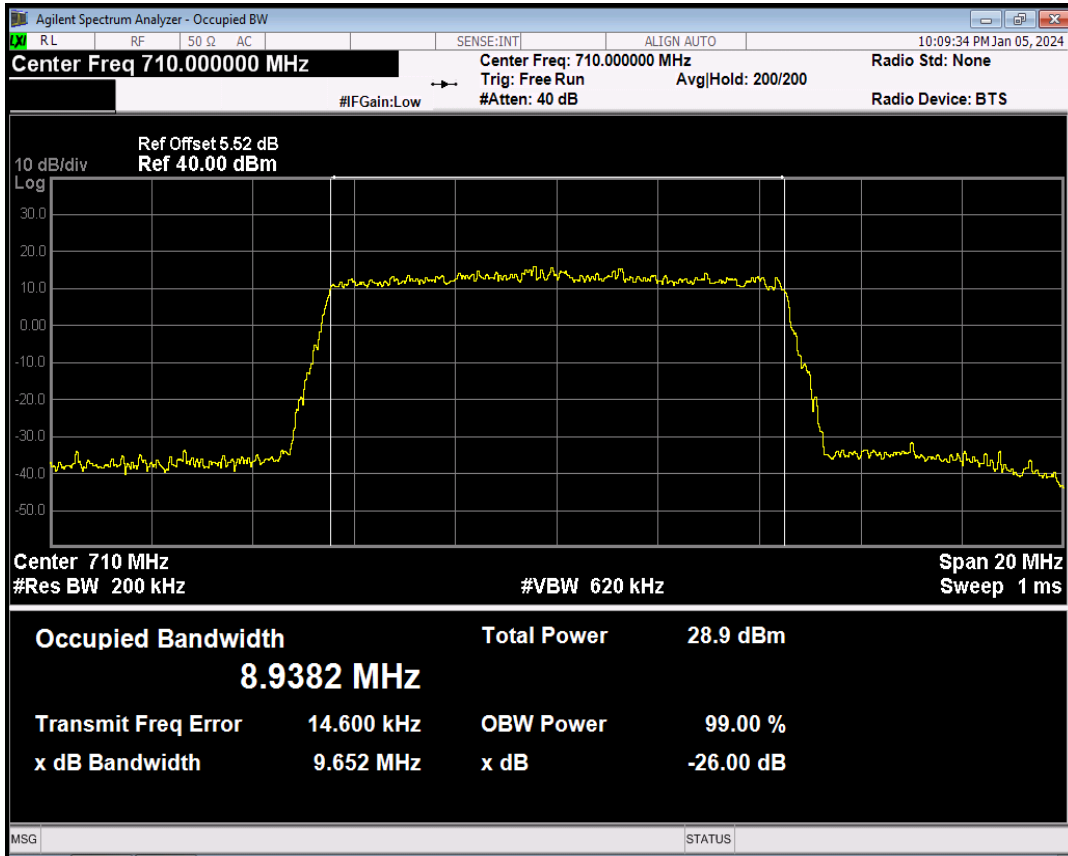




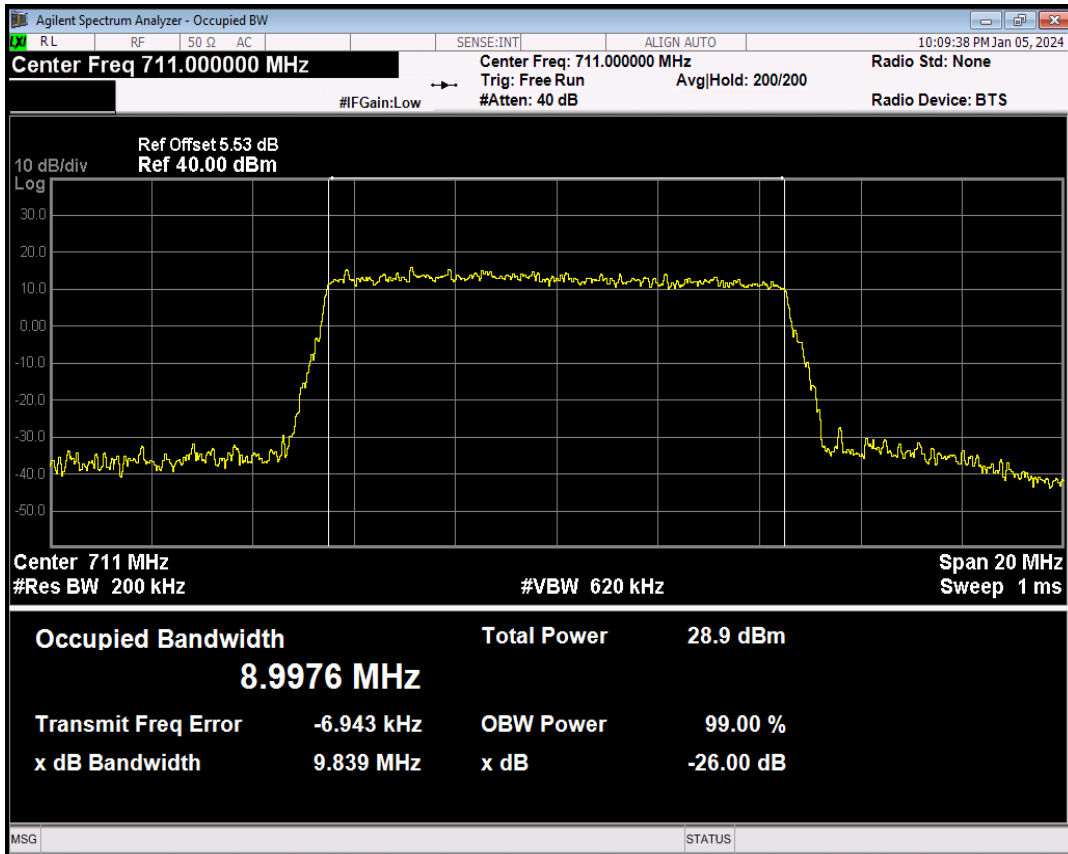
Band17 QPSK BW=10MHz Channel=23780 RB Size=50 Position=#0



Band17 QPSK BW=10MHz Channel=23790 RB Size=50 Position=#0



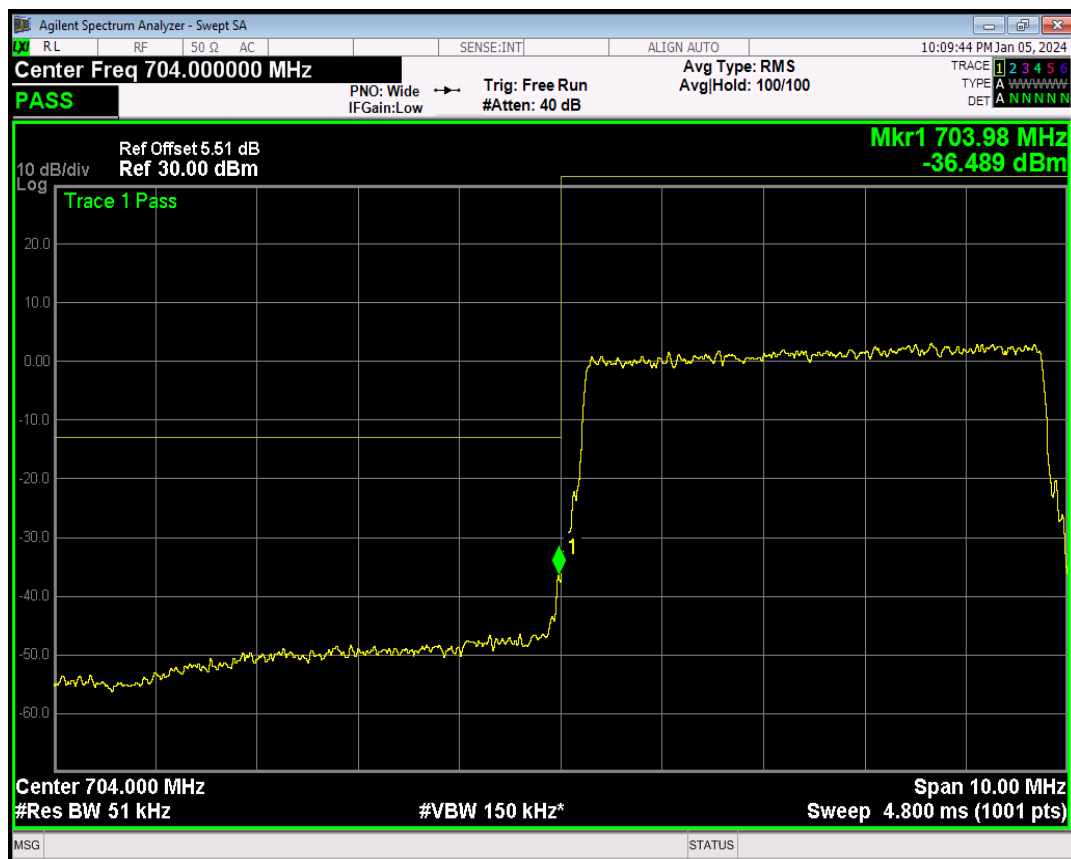
Band17 QPSK BW=10MHz Channel=23800 RB Size=50 Position=#0



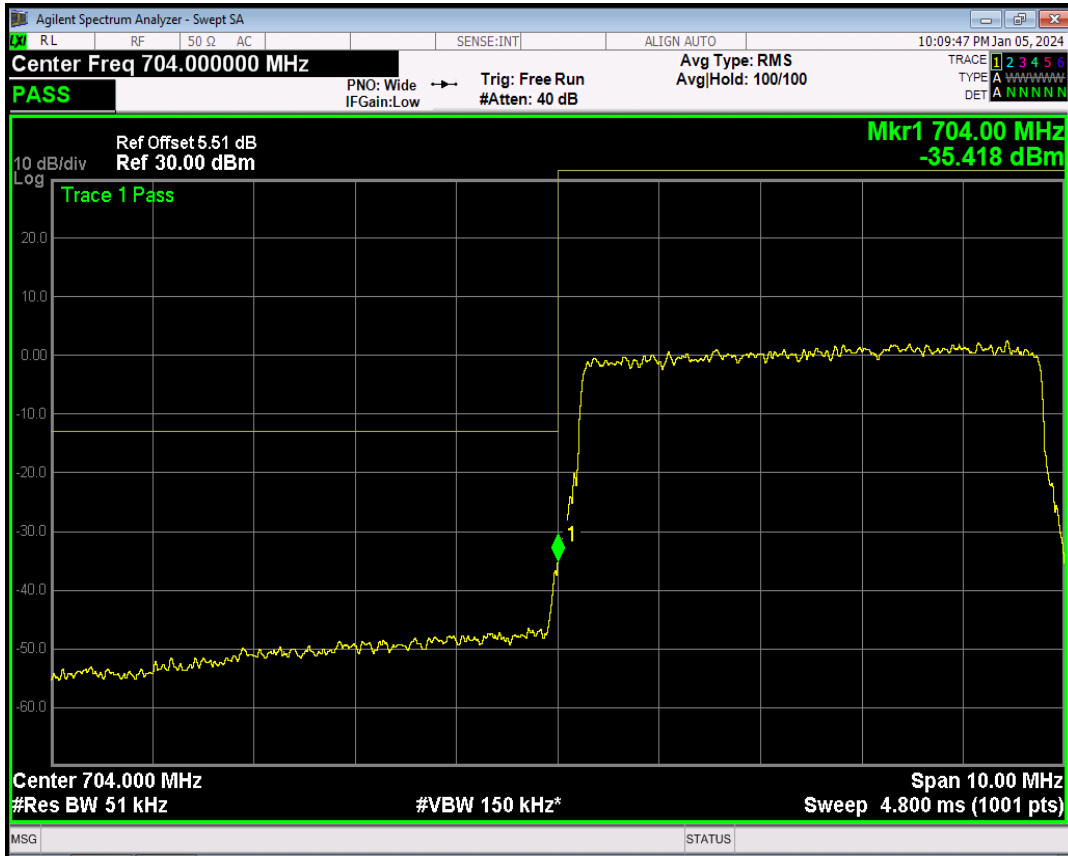
Appendix 5. Band edge

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band17	5	23755	25	#0	QPSK	703.98	-36.48	-13	PASS
Band17	5	23755	25	#0	16QAM	704.00	-35.41	-13	PASS
Band17	5	23825	25	#0	QPSK	716.00	-33.69	-13	PASS
Band17	5	23825	25	#0	16QAM	716.01	-33.91	-13	PASS
Band17	10	23780	50	#0	QPSK	703.98	-40.57	-13	PASS
Band17	10	23800	50	#0	QPSK	716.00	-37.39	-13	PASS

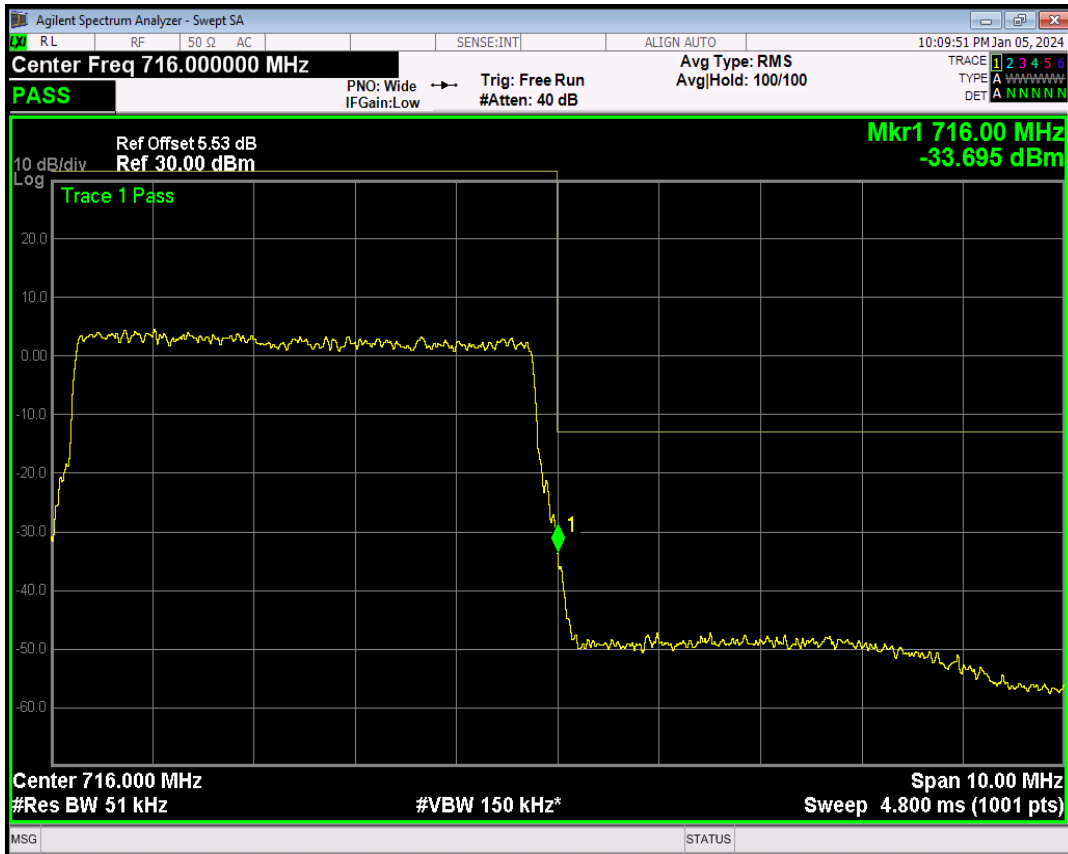
Band17 QPSK BW=5MHz Channel=23755 RB Size=25 Position=#0



Band17 16QAM BW=5MHz Channel=23755 RB Size=25 Position=#0

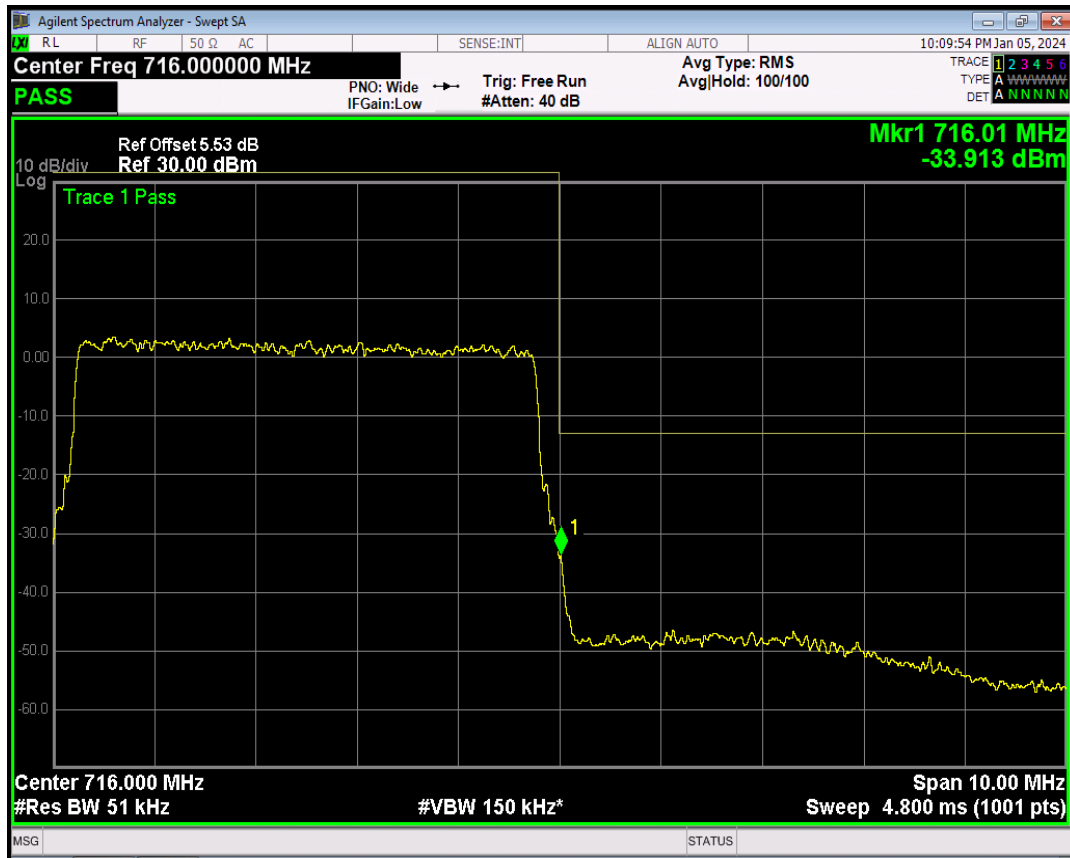


Band17 QPSK BW=5MHz Channel=23825 RB Size=25 Position=#0

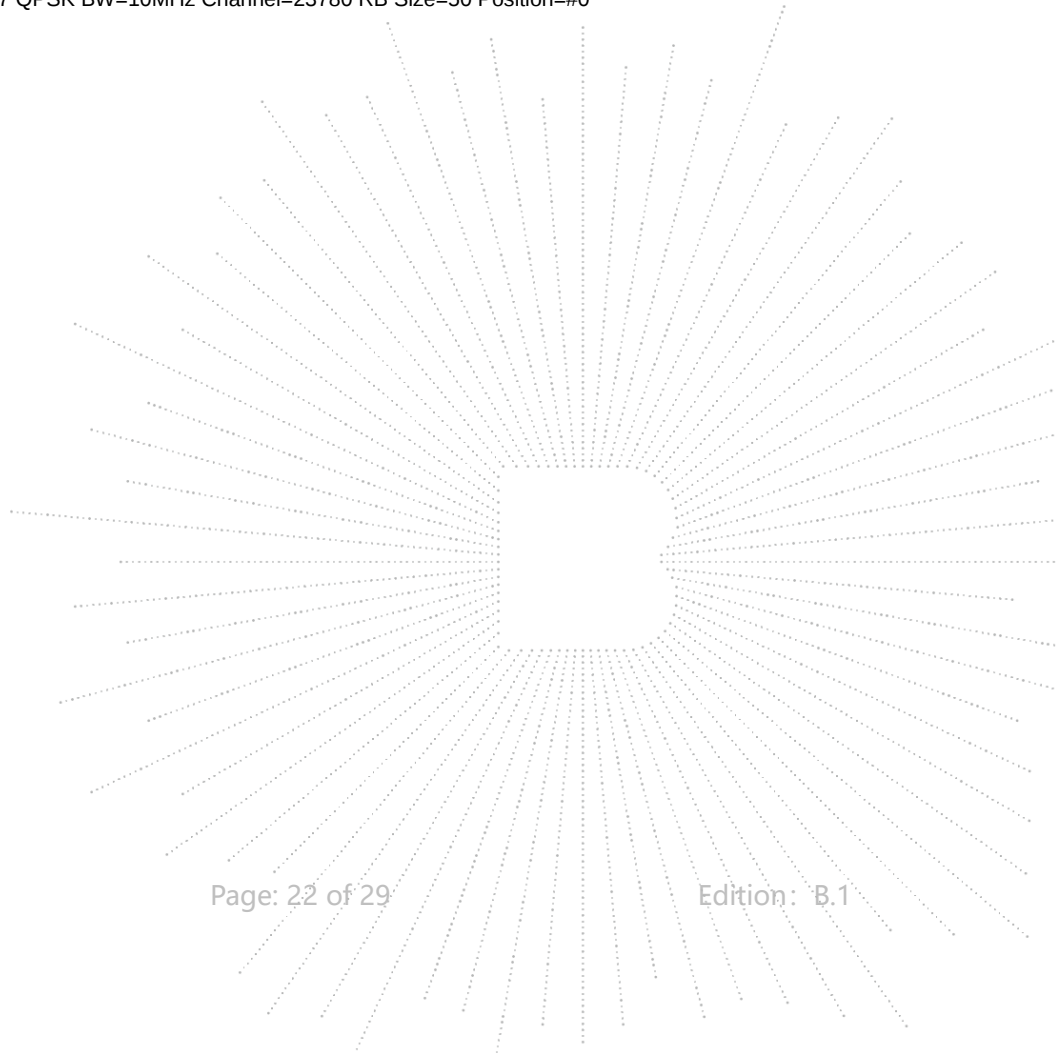


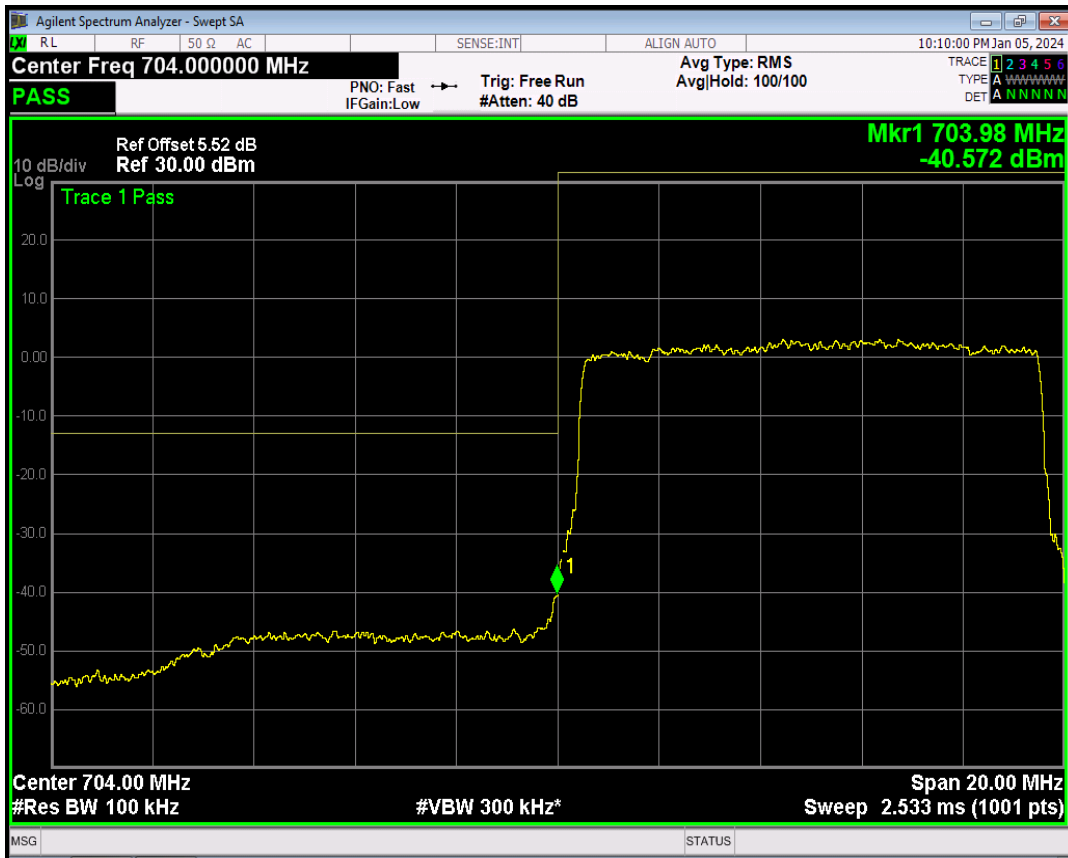


Band17 16QAM BW=5MHz Channel=23825 RB Size=25 Position=#0



Band17 QPSK BW=10MHz Channel=23780 RB Size=50 Position=#0





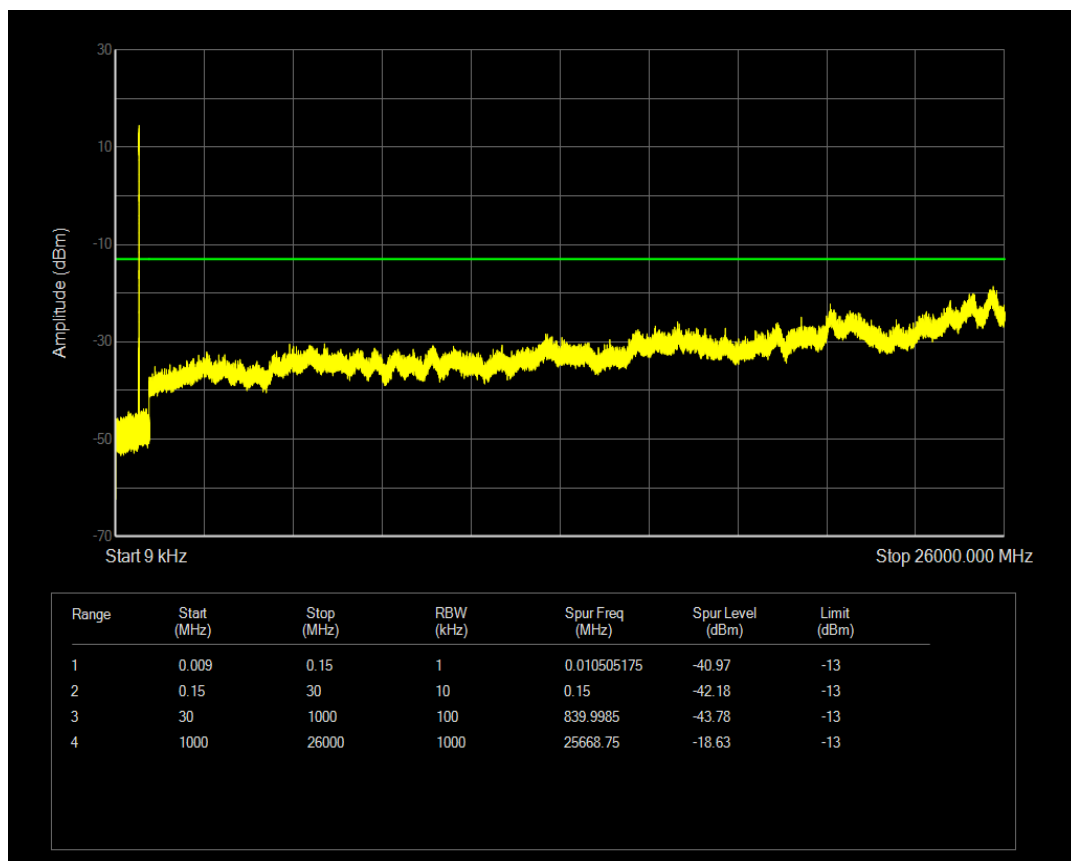
Band17 QPSK BW=10MHz Channel=23800 RB Size=50 Position=#0



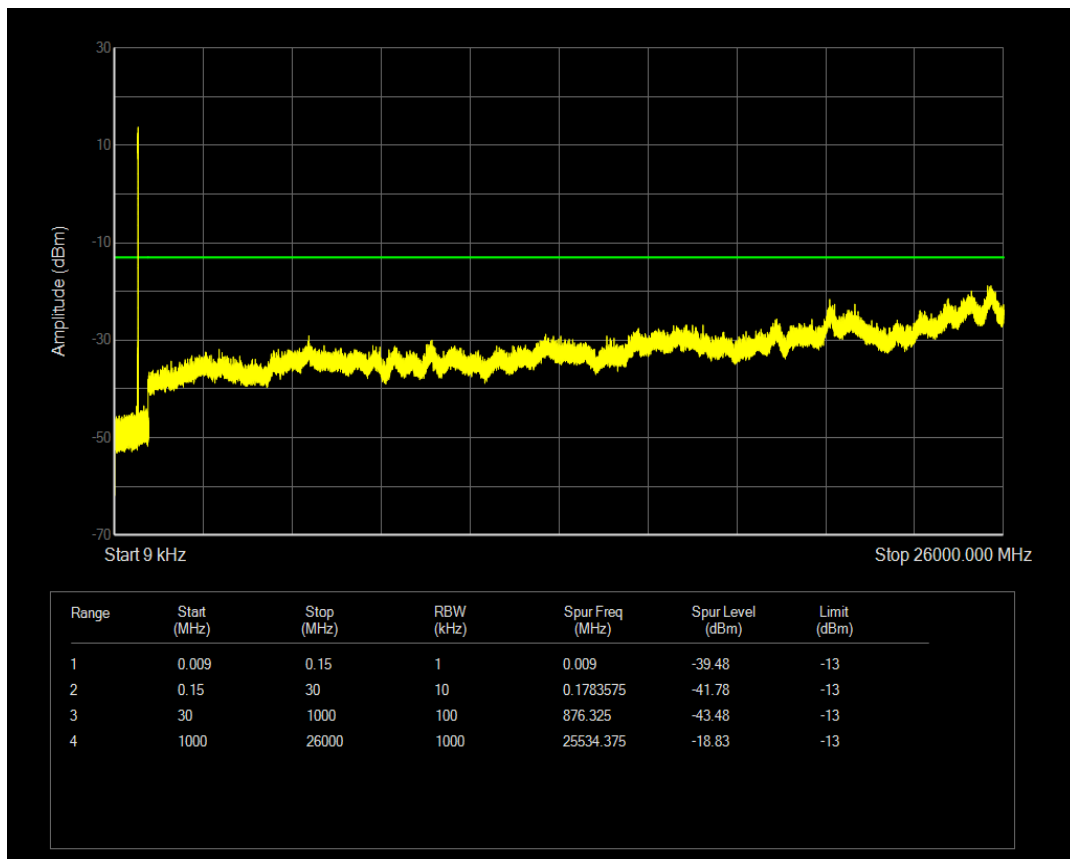
Appendix 6. Out-of-band emissions

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band17	5	23755	25	#0	QPSK	25668.75	-18.63	-13	PASS
Band17	5	23755	25	#0	16QAM	25534.38	-18.83	-13	PASS
Band17	5	23790	25	#0	QPSK	25608.75	-17.56	-13	PASS
Band17	5	23790	25	#0	16QAM	25621.25	-17.97	-13	PASS
Band17	5	23825	25	#0	QPSK	25667.50	-18.27	-13	PASS
Band17	5	23825	25	#0	16QAM	25629.38	-18.82	-13	PASS
Band17	10	23780	50	#0	QPSK	25613.13	-18.66	-13	PASS
Band17	10	23790	50	#0	QPSK	25696.88	-18.49	-13	PASS
Band17	10	23800	50	#0	QPSK	25643.13	-18.08	-13	PASS

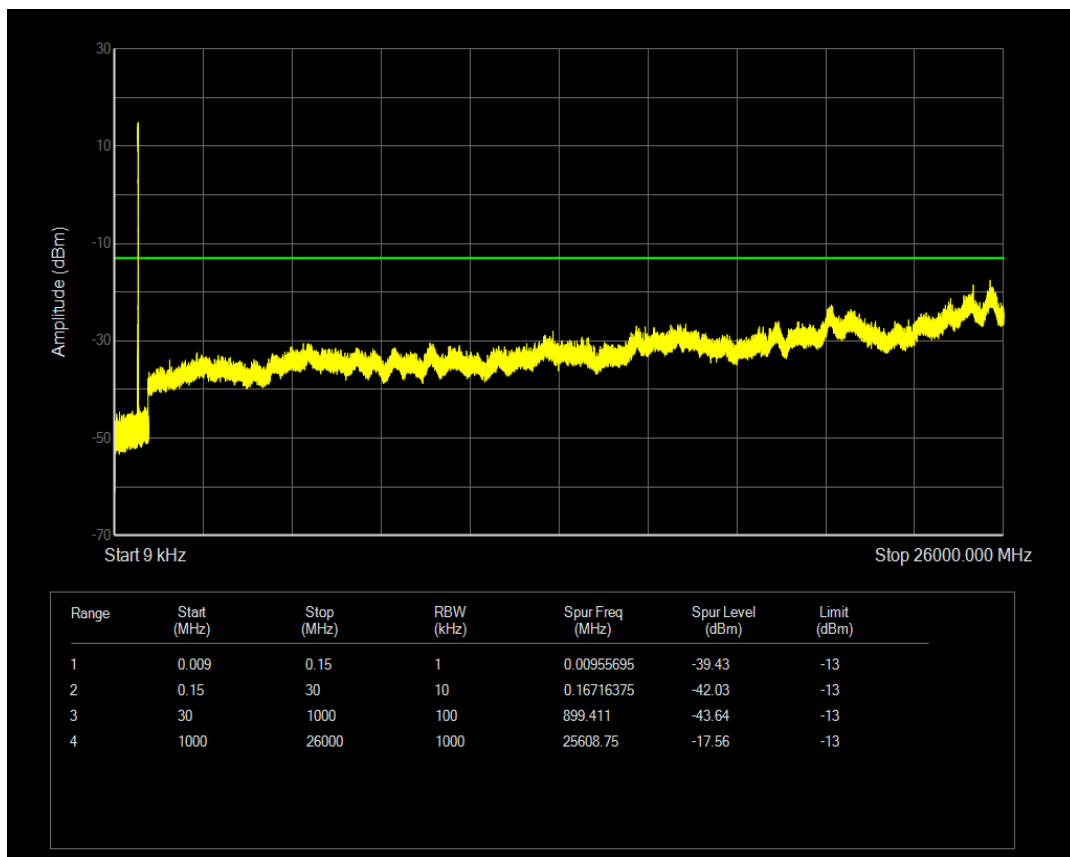
Band17 QPSK BW=5MHz Channel=23755 RB Size=25 Position=#0



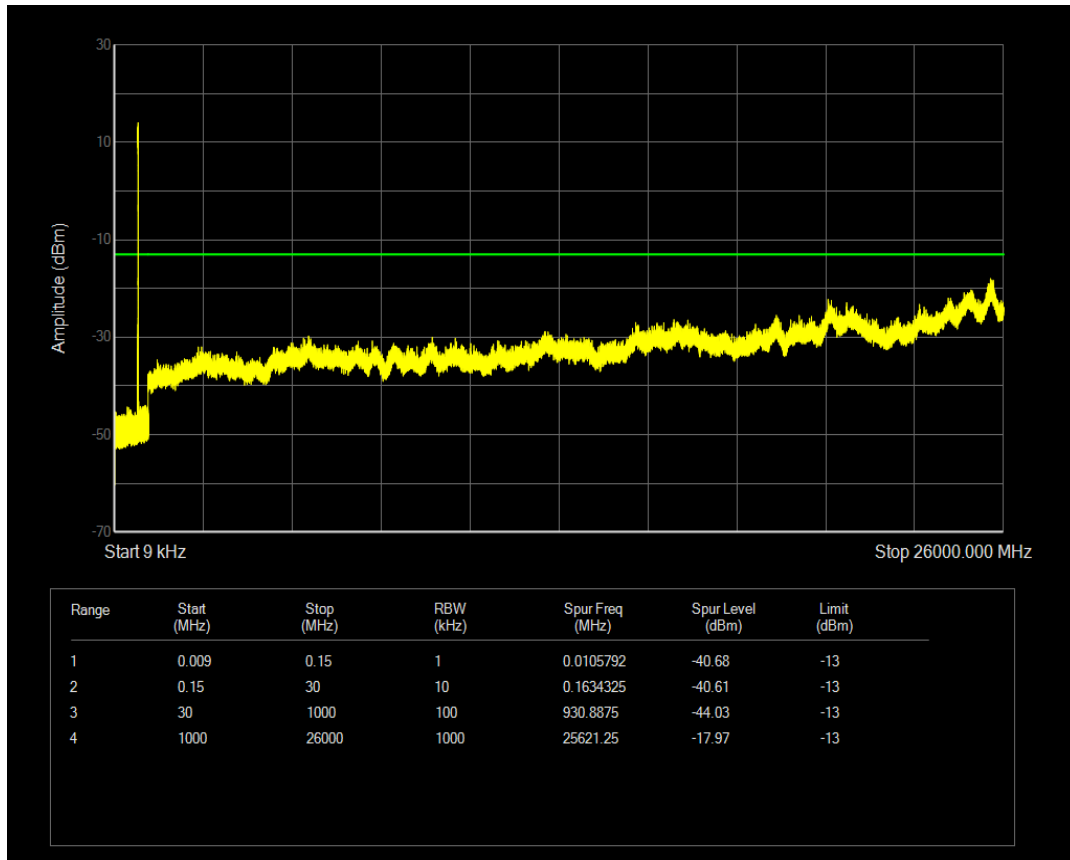
Band17 16QAM BW=5MHz Channel=23755 RB Size=25 Position=#0



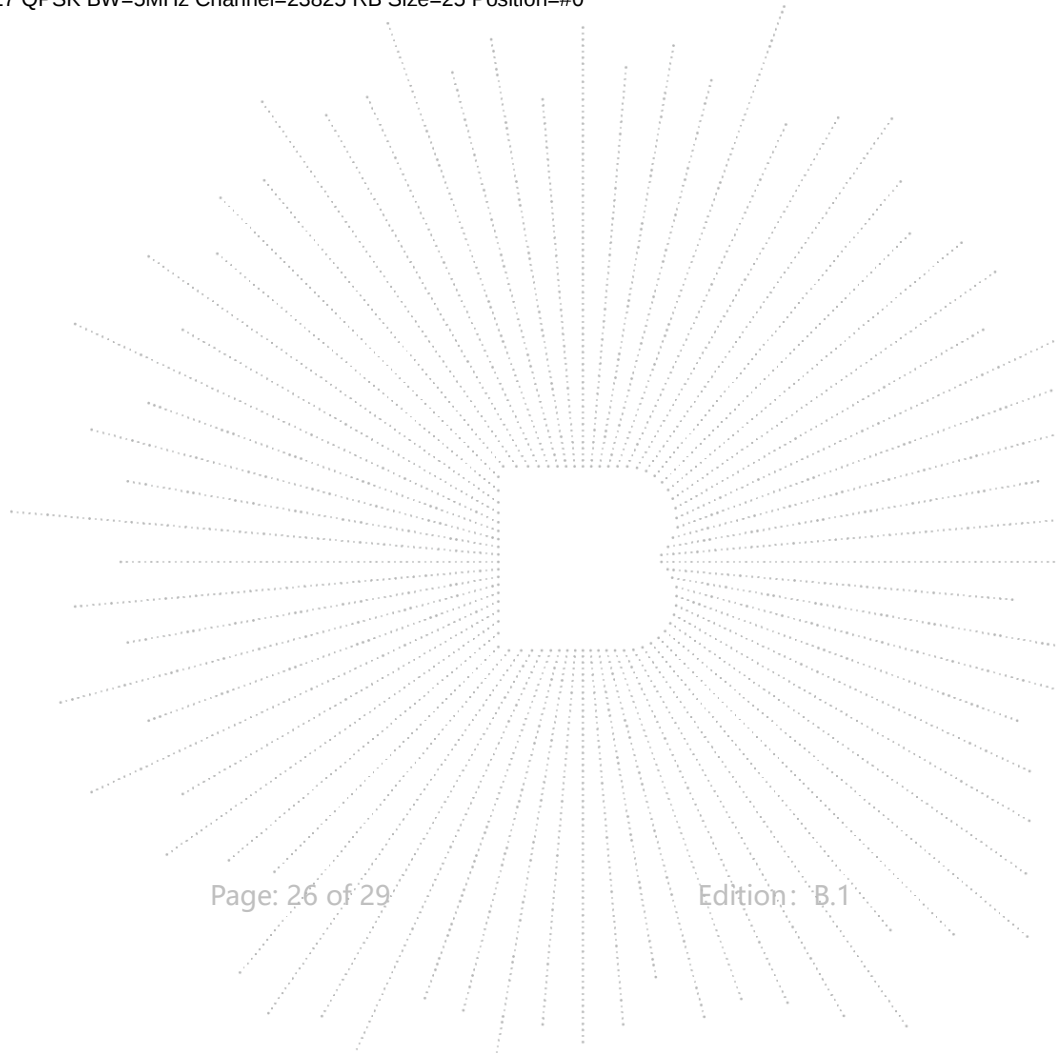
Band17 QPSK BW=5MHz Channel=23790 RB Size=25 Position=#0

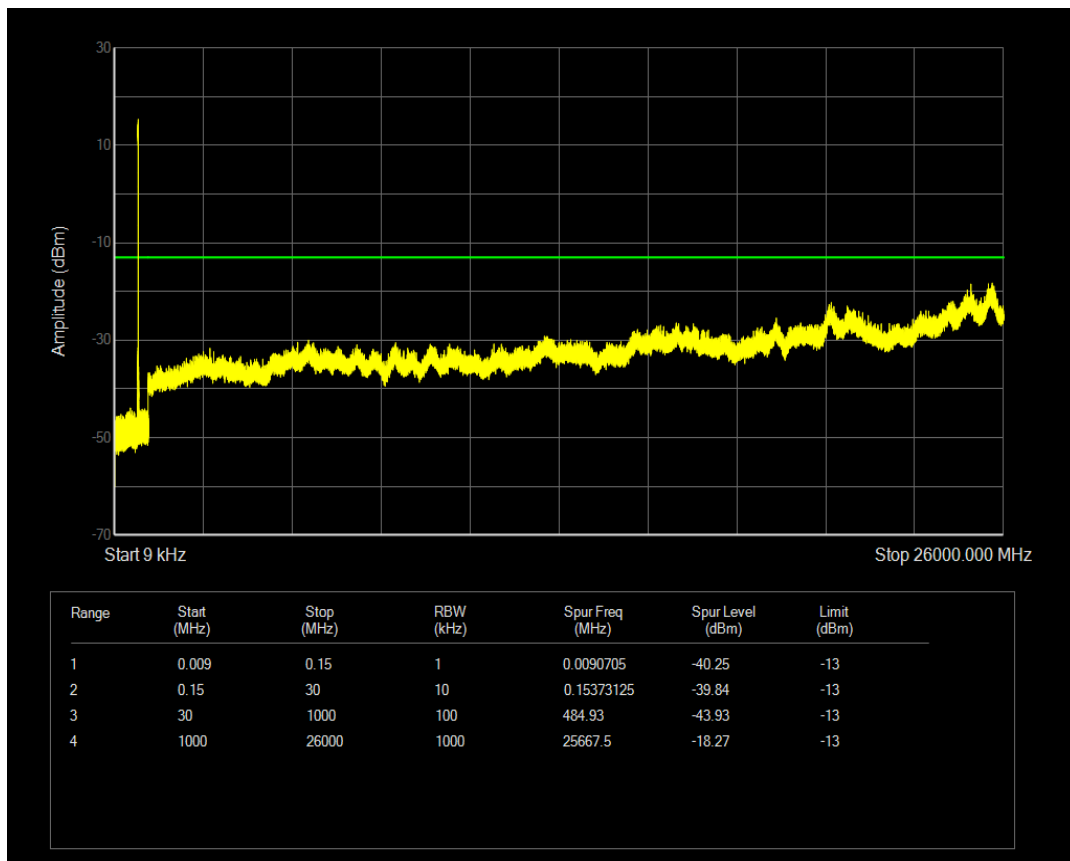


Band17 16QAM BW=5MHz Channel=23790 RB Size=25 Position=#0

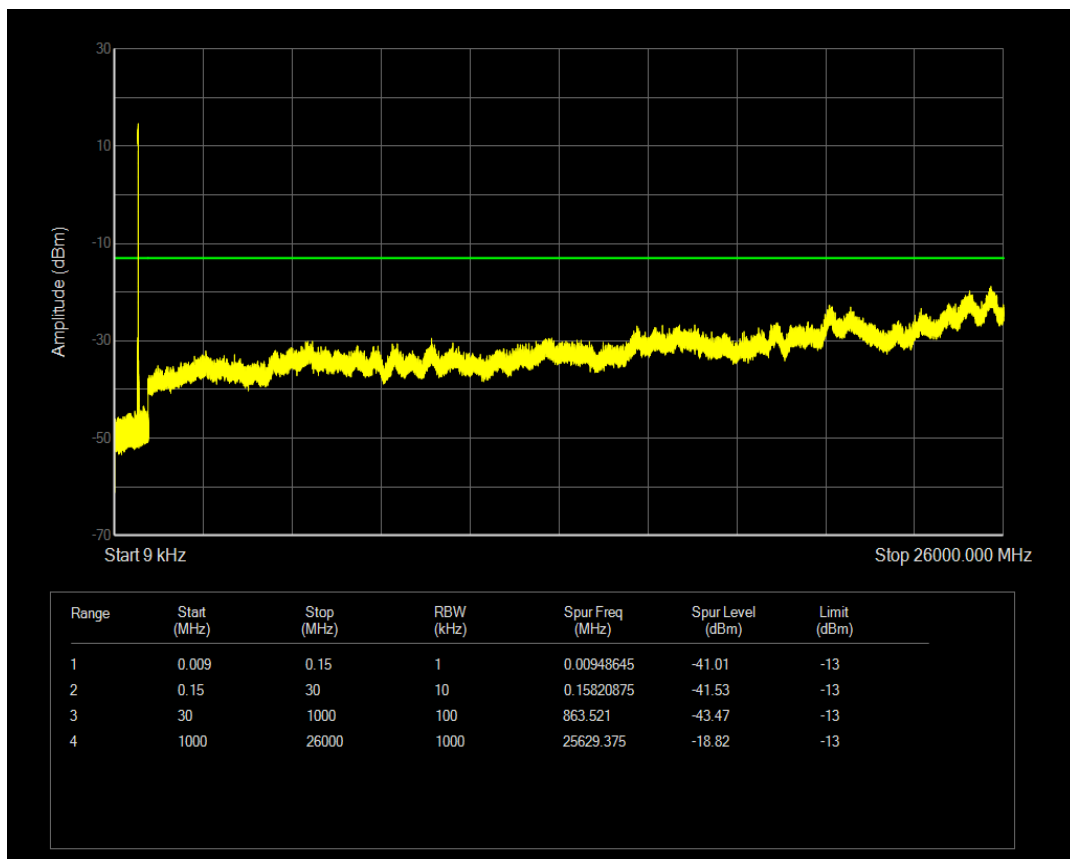


Band17 QPSK BW=5MHz Channel=23825 RB Size=25 Position=#0



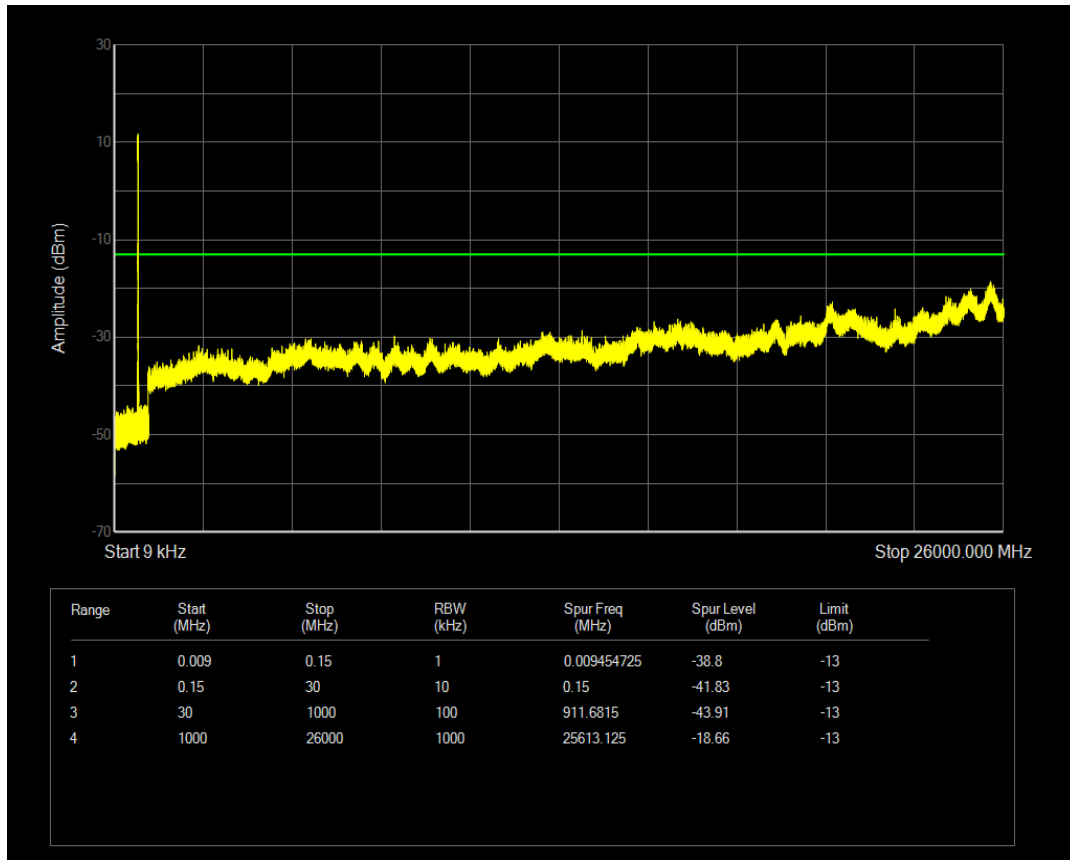


Band17 16QAM BW=5MHz Channel=23825 RB Size=25 Position=#0

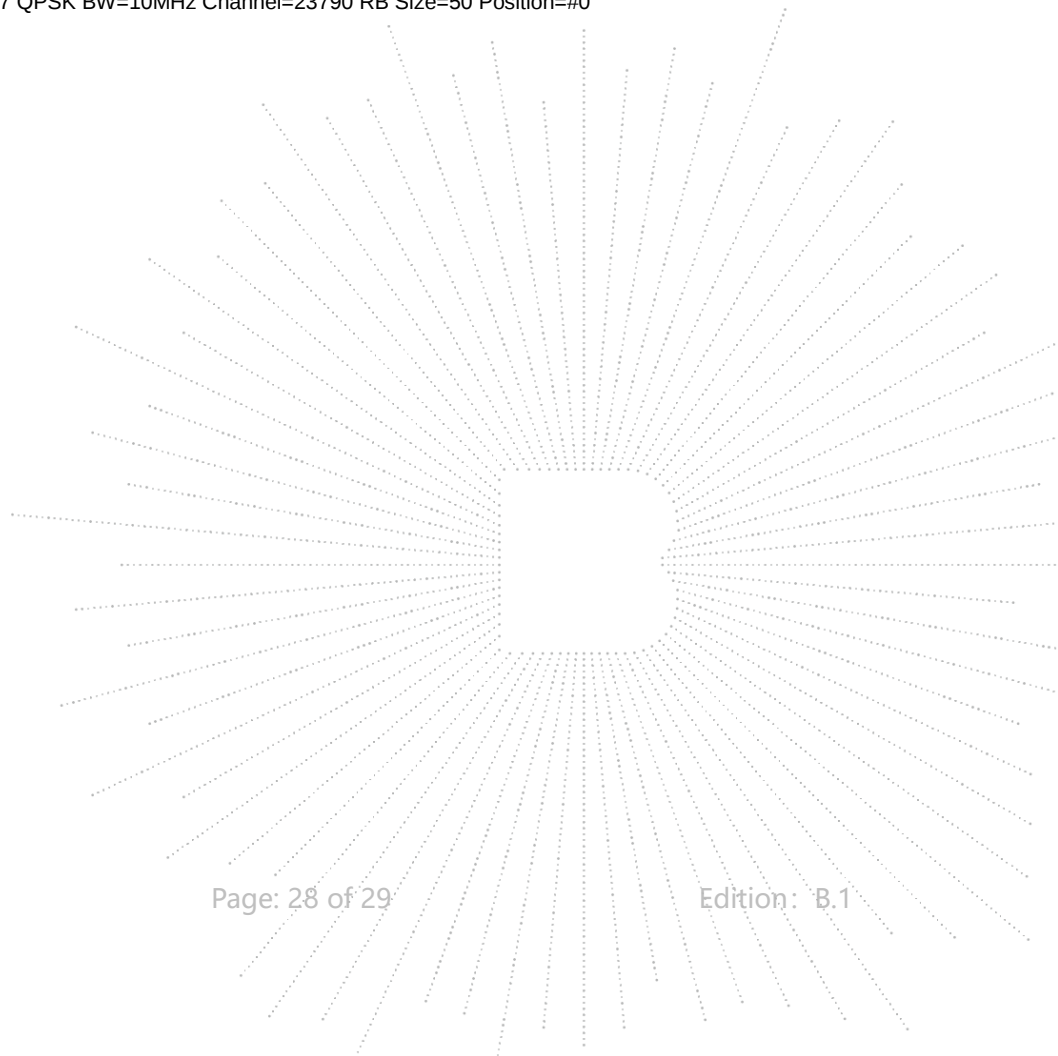


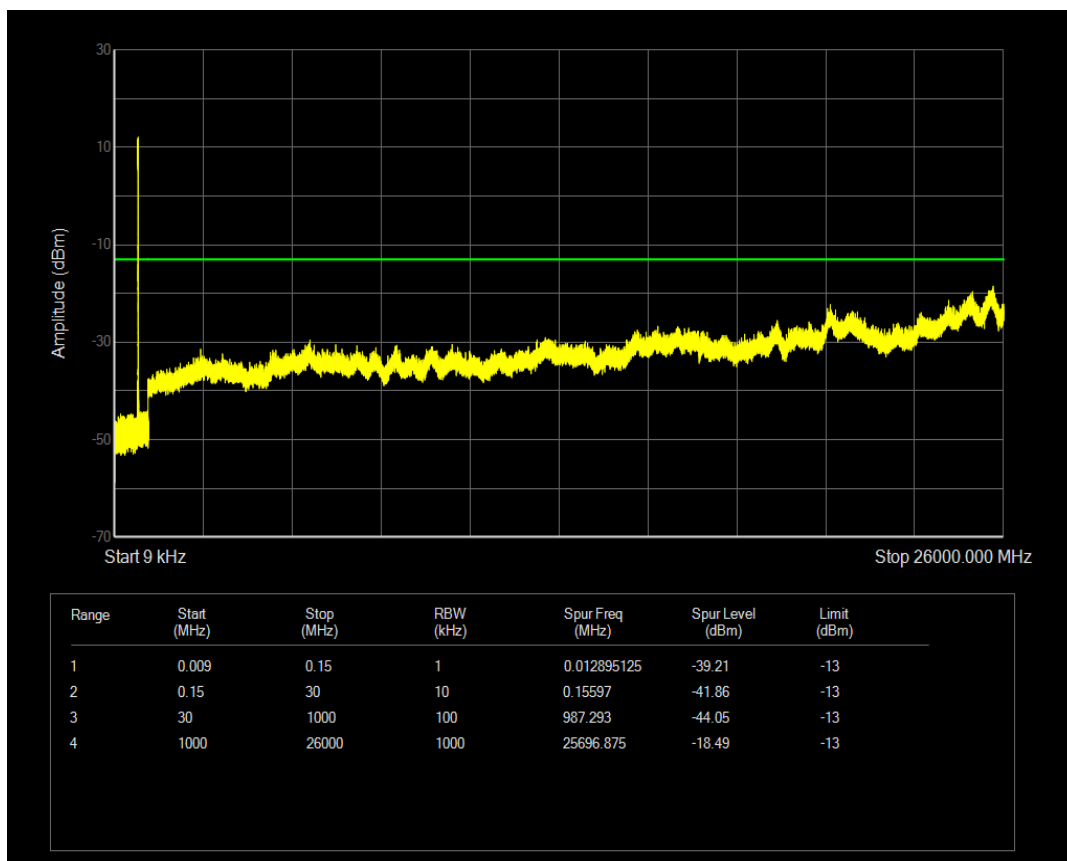


Band17 QPSK BW=10MHz Channel=23780 RB Size=50 Position=#0



Band17 QPSK BW=10MHz Channel=23790 RB Size=50 Position=#0





Band17 QPSK BW=10MHz Channel=23800 RB Size=50 Position=#0

