

Appendix for Band 4

Report No.: BCTC2410177766-3E

Applicant: GEM ONE NV

Product Name: Onyx V4

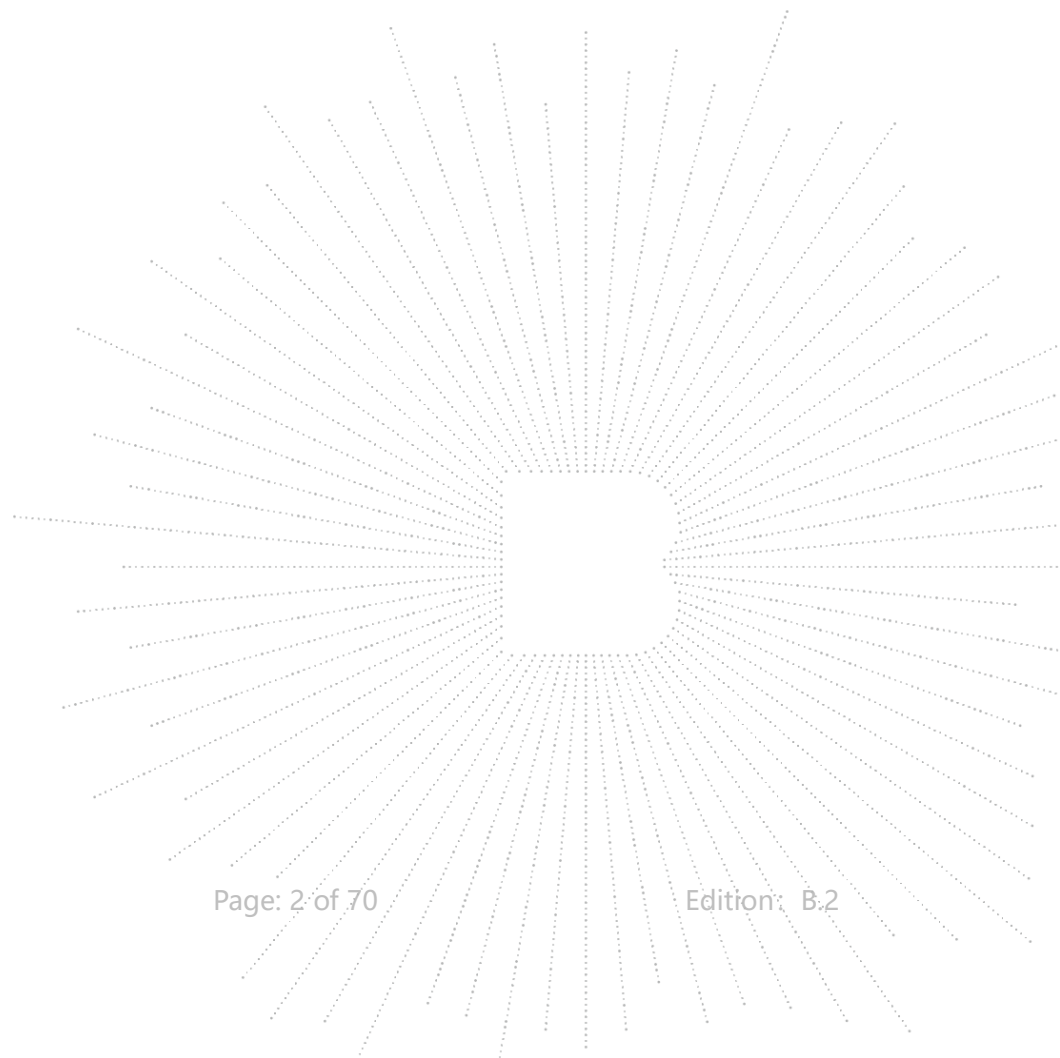
Test Model: Onyx V4

Tested Date: 2024-10-28 to 2024-11-11

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)	EIRP (dBm)	Verdict
Band4	1.4	19957	1	#0	QPSK	23.83	2.79	26.62	PASS
Band4	1.4	19957	1	#Mid	QPSK	24.26	2.79	27.05	PASS
Band4	1.4	19957	1	#Max	QPSK	23.55	2.79	26.34	PASS
Band4	1.4	19957	3	#0	QPSK	23.74	2.79	26.53	PASS
Band4	1.4	19957	3	#Mid	QPSK	23.96	2.79	26.75	PASS
Band4	1.4	19957	3	#Max	QPSK	23.64	2.79	26.43	PASS
Band4	1.4	19957	6	#0	QPSK	22.69	2.79	25.48	PASS
Band4	1.4	19957	1	#0	16QAM	22.78	2.79	25.57	PASS
Band4	1.4	19957	1	#Mid	16QAM	23.28	2.79	26.07	PASS
Band4	1.4	19957	1	#Max	16QAM	22.60	2.79	25.39	PASS
Band4	1.4	19957	3	#0	16QAM	22.93	2.79	25.72	PASS
Band4	1.4	19957	3	#Mid	16QAM	23.14	2.79	25.93	PASS
Band4	1.4	19957	3	#Max	16QAM	22.80	2.79	25.59	PASS
Band4	1.4	19957	6	#0	16QAM	21.81	2.79	24.60	PASS
Band4	1.4	20175	1	#0	QPSK	24.84	2.79	27.63	PASS
Band4	1.4	20175	1	#Mid	QPSK	25.22	2.79	28.01	PASS
Band4	1.4	20175	1	#Max	QPSK	24.56	2.79	27.35	PASS
Band4	1.4	20175	3	#0	QPSK	25.06	2.79	27.85	PASS
Band4	1.4	20175	3	#Mid	QPSK	25.18	2.79	27.97	PASS
Band4	1.4	20175	3	#Max	QPSK	24.86	2.79	27.65	PASS
Band4	1.4	20175	6	#0	QPSK	24.00	2.79	26.79	PASS
Band4	1.4	20175	1	#0	16QAM	24.13	2.79	26.92	PASS
Band4	1.4	20175	1	#Mid	16QAM	24.48	2.79	27.27	PASS
Band4	1.4	20175	1	#Max	16QAM	23.85	2.79	26.64	PASS
Band4	1.4	20175	3	#0	16QAM	24.29	2.79	27.08	PASS
Band4	1.4	20175	3	#Mid	16QAM	24.43	2.79	27.22	PASS
Band4	1.4	20175	3	#Max	16QAM	24.10	2.79	26.89	PASS
Band4	1.4	20175	6	#0	16QAM	23.23	2.79	26.02	PASS
Band4	1.4	20393	1	#0	QPSK	23.80	2.79	26.59	PASS
Band4	1.4	20393	1	#Mid	QPSK	23.93	2.79	26.72	PASS
Band4	1.4	20393	1	#Max	QPSK	23.37	2.79	26.16	PASS
Band4	1.4	20393	3	#0	QPSK	23.52	2.79	26.31	PASS
Band4	1.4	20393	3	#Mid	QPSK	23.70	2.79	26.49	PASS
Band4	1.4	20393	3	#Max	QPSK	23.22	2.79	26.01	PASS
Band4	1.4	20393	6	#0	QPSK	22.32	2.79	25.11	PASS
Band4	1.4	20393	1	#0	16QAM	22.68	2.79	25.47	PASS

Band4	1.4	20393	1	#Mid	16QAM	22.79	2.79	25.58	PASS
Band4	1.4	20393	1	#Max	16QAM	22.17	2.79	24.96	PASS
Band4	1.4	20393	3	#0	16QAM	22.73	2.79	25.52	PASS
Band4	1.4	20393	3	#Mid	16QAM	22.93	2.79	25.72	PASS
Band4	1.4	20393	3	#Max	16QAM	22.49	2.79	25.28	PASS
Band4	1.4	20393	6	#0	16QAM	21.55	2.79	24.34	PASS
Band4	3	19965	1	#0	QPSK	23.57	2.79	26.36	PASS
Band4	3	19965	1	#Mid	QPSK	24.34	2.79	27.13	PASS
Band4	3	19965	1	#Max	QPSK	23.41	2.79	26.20	PASS
Band4	3	19965	8	#0	QPSK	22.83	2.79	25.62	PASS
Band4	3	19965	8	#Mid	QPSK	23.10	2.79	25.89	PASS
Band4	3	19965	8	#Max	QPSK	22.83	2.79	25.62	PASS
Band4	3	19965	15	#0	QPSK	22.79	2.79	25.58	PASS
Band4	3	19965	1	#0	16QAM	22.94	2.79	25.73	PASS
Band4	3	19965	1	#Mid	16QAM	23.77	2.79	26.56	PASS
Band4	3	19965	1	#Max	16QAM	22.85	2.79	25.64	PASS
Band4	3	19965	8	#0	16QAM	21.86	2.79	24.65	PASS
Band4	3	19965	8	#Mid	16QAM	22.12	2.79	24.91	PASS
Band4	3	19965	8	#Max	16QAM	21.85	2.79	24.64	PASS
Band4	3	19965	15	#0	16QAM	21.83	2.79	24.62	PASS
Band4	3	20175	1	#0	QPSK	24.93	2.79	27.72	PASS
Band4	3	20175	1	#Mid	QPSK	25.29	2.79	28.08	PASS
Band4	3	20175	1	#Max	QPSK	24.37	2.79	27.16	PASS
Band4	3	20175	8	#0	QPSK	24.10	2.79	26.89	PASS
Band4	3	20175	8	#Mid	QPSK	24.27	2.79	27.06	PASS
Band4	3	20175	8	#Max	QPSK	23.96	2.79	26.75	PASS
Band4	3	20175	15	#0	QPSK	24.05	2.79	26.84	PASS
Band4	3	20175	1	#0	16QAM	24.15	2.79	26.94	PASS
Band4	3	20175	1	#Mid	16QAM	24.58	2.79	27.37	PASS
Band4	3	20175	1	#Max	16QAM	23.68	2.79	26.47	PASS
Band4	3	20175	8	#0	16QAM	23.22	2.79	26.01	PASS
Band4	3	20175	8	#Mid	16QAM	23.38	2.79	26.17	PASS
Band4	3	20175	8	#Max	16QAM	23.02	2.79	25.81	PASS
Band4	3	20175	15	#0	16QAM	23.09	2.79	25.88	PASS
Band4	3	20385	1	#0	QPSK	23.55	2.79	26.34	PASS
Band4	3	20385	1	#Mid	QPSK	24.06	2.79	26.85	PASS
Band4	3	20385	1	#Max	QPSK	23.16	2.79	25.95	PASS
Band4	3	20385	8	#0	QPSK	22.41	2.79	25.20	PASS
Band4	3	20385	8	#Mid	QPSK	22.63	2.79	25.42	PASS
Band4	3	20385	8	#Max	QPSK	22.31	2.79	25.10	PASS
Band4	3	20385	15	#0	QPSK	22.34	2.79	25.13	PASS
Band4	3	20385	1	#0	16QAM	22.46	2.79	25.25	PASS
Band4	3	20385	1	#Mid	16QAM	22.96	2.79	25.75	PASS

Band4	3	20385	1	#Max	16QAM	21.96	2.79	24.75	PASS
Band4	3	20385	8	#0	16QAM	21.43	2.79	24.22	PASS
Band4	3	20385	8	#Mid	16QAM	21.68	2.79	24.47	PASS
Band4	3	20385	8	#Max	16QAM	21.38	2.79	24.17	PASS
Band4	3	20385	15	#0	16QAM	21.48	2.79	24.27	PASS
Band4	5	19975	1	#0	QPSK	23.59	2.79	26.38	PASS
Band4	5	19975	1	#Mid	QPSK	23.66	2.79	26.45	PASS
Band4	5	19975	1	#Max	QPSK	23.38	2.79	26.17	PASS
Band4	5	19975	12	#0	QPSK	22.69	2.79	25.48	PASS
Band4	5	19975	12	#Mid	QPSK	22.70	2.79	25.49	PASS
Band4	5	19975	12	#Max	QPSK	22.49	2.79	25.28	PASS
Band4	5	19975	25	#0	QPSK	22.77	2.79	25.56	PASS
Band4	5	19975	1	#0	16QAM	23.09	2.79	25.88	PASS
Band4	5	19975	1	#Mid	16QAM	23.23	2.79	26.02	PASS
Band4	5	19975	1	#Max	16QAM	22.90	2.79	25.69	PASS
Band4	5	19975	12	#0	16QAM	21.69	2.79	24.48	PASS
Band4	5	19975	12	#Mid	16QAM	21.74	2.79	24.53	PASS
Band4	5	19975	12	#Max	16QAM	21.54	2.79	24.33	PASS
Band4	5	19975	25	#0	16QAM	21.77	2.79	24.56	PASS
Band4	5	20175	1	#0	QPSK	24.81	2.79	27.60	PASS
Band4	5	20175	1	#Mid	QPSK	24.77	2.79	27.56	PASS
Band4	5	20175	1	#Max	QPSK	24.39	2.79	27.18	PASS
Band4	5	20175	12	#0	QPSK	23.72	2.79	26.51	PASS
Band4	5	20175	12	#Mid	QPSK	23.60	2.79	26.39	PASS
Band4	5	20175	12	#Max	QPSK	23.87	2.79	26.66	PASS
Band4	5	20175	25	#0	QPSK	24.01	2.79	26.80	PASS
Band4	5	20175	1	#0	16QAM	24.09	2.79	26.88	PASS
Band4	5	20175	1	#Mid	16QAM	24.15	2.79	26.94	PASS
Band4	5	20175	1	#Max	16QAM	23.80	2.79	26.59	PASS
Band4	5	20175	12	#0	16QAM	22.85	2.79	25.64	PASS
Band4	5	20175	12	#Mid	16QAM	22.76	2.79	25.55	PASS
Band4	5	20175	12	#Max	16QAM	23.01	2.79	25.80	PASS
Band4	5	20175	25	#0	16QAM	23.20	2.79	25.99	PASS
Band4	5	20375	1	#0	QPSK	23.32	2.79	26.11	PASS
Band4	5	20375	1	#Mid	QPSK	23.13	2.79	25.92	PASS
Band4	5	20375	1	#Max	QPSK	23.15	2.79	25.94	PASS
Band4	5	20375	12	#0	QPSK	22.36	2.79	25.15	PASS
Band4	5	20375	12	#Mid	QPSK	22.32	2.79	25.11	PASS
Band4	5	20375	12	#Max	QPSK	22.37	2.79	25.16	PASS
Band4	5	20375	25	#0	QPSK	22.43	2.79	25.22	PASS
Band4	5	20375	1	#0	16QAM	22.80	2.79	25.59	PASS
Band4	5	20375	1	#Mid	16QAM	22.65	2.79	25.44	PASS
Band4	5	20375	1	#Max	16QAM	22.64	2.79	25.43	PASS

Band4	5	20375	12	#0	16QAM	21.44	2.79	24.23	PASS
Band4	5	20375	12	#Mid	16QAM	21.43	2.79	24.22	PASS
Band4	5	20375	12	#Max	16QAM	21.45	2.79	24.24	PASS
Band4	5	20375	25	#0	16QAM	21.45	2.79	24.24	PASS
Band4	10	20000	1	#0	QPSK	23.66	2.79	26.45	PASS
Band4	10	20000	1	#Mid	QPSK	23.81	2.79	26.60	PASS
Band4	10	20000	1	#Max	QPSK	23.69	2.79	26.48	PASS
Band4	10	20000	25	#0	QPSK	22.60	2.79	25.39	PASS
Band4	10	20000	25	#Mid	QPSK	22.70	2.79	25.49	PASS
Band4	10	20000	25	#Max	QPSK	22.68	2.79	25.47	PASS
Band4	10	20000	50	#0	QPSK	22.95	2.79	25.74	PASS
Band4	10	20175	1	#0	QPSK	25.09	2.79	27.88	PASS
Band4	10	20175	1	#Mid	QPSK	25.04	2.79	27.83	PASS
Band4	10	20175	1	#Max	QPSK	24.01	2.79	26.80	PASS
Band4	10	20175	25	#0	QPSK	24.19	2.79	26.98	PASS
Band4	10	20175	25	#Mid	QPSK	24.00	2.79	26.79	PASS
Band4	10	20175	25	#Max	QPSK	24.09	2.79	26.88	PASS
Band4	10	20175	50	#0	QPSK	24.15	2.79	26.94	PASS
Band4	10	20350	1	#0	QPSK	23.91	2.79	26.70	PASS
Band4	10	20350	1	#Mid	QPSK	23.70	2.79	26.49	PASS
Band4	10	20350	1	#Max	QPSK	23.44	2.79	26.23	PASS
Band4	10	20350	25	#0	QPSK	22.56	2.79	25.35	PASS
Band4	10	20350	25	#Mid	QPSK	22.51	2.79	25.30	PASS
Band4	10	20350	25	#Max	QPSK	22.44	2.79	25.23	PASS
Band4	10	20350	50	#0	QPSK	22.57	2.79	25.36	PASS
Band4	15	20025	1	#0	QPSK	23.52	2.79	26.31	PASS
Band4	15	20025	1	#Mid	QPSK	23.74	2.79	26.53	PASS
Band4	15	20025	1	#Max	QPSK	23.67	2.79	26.46	PASS
Band4	15	20025	36	#0	QPSK	22.65	2.79	25.44	PASS
Band4	15	20025	36	#Mid	QPSK	22.85	2.79	25.64	PASS
Band4	15	20025	36	#Max	QPSK	22.83	2.79	25.62	PASS
Band4	15	20025	75	#0	QPSK	22.87	2.79	25.66	PASS
Band4	15	20175	1	#0	QPSK	24.87	2.79	27.66	PASS
Band4	15	20175	1	#Mid	QPSK	24.86	2.79	27.65	PASS
Band4	15	20175	1	#Max	QPSK	23.91	2.79	26.70	PASS
Band4	15	20175	36	#0	QPSK	24.20	2.79	26.99	PASS
Band4	15	20175	36	#Mid	QPSK	24.03	2.79	26.82	PASS
Band4	15	20175	36	#Max	QPSK	23.99	2.79	26.78	PASS
Band4	15	20175	75	#0	QPSK	24.06	2.79	26.85	PASS
Band4	15	20325	1	#0	QPSK	24.45	2.79	27.24	PASS
Band4	15	20325	1	#Mid	QPSK	23.59	2.79	26.38	PASS
Band4	15	20325	1	#Max	QPSK	23.40	2.79	26.19	PASS
Band4	15	20325	36	#0	QPSK	22.57	2.79	25.36	PASS

Band4	15	20325	36	#Mid	QPSK	22.46	2.79	25.25	PASS
Band4	15	20325	36	#Max	QPSK	22.82	2.79	25.61	PASS
Band4	15	20325	75	#0	QPSK	22.70	2.79	25.49	PASS
Band4	20	20050	1	#0	QPSK	23.87	2.79	26.66	PASS
Band4	20	20050	1	#Mid	QPSK	24.22	2.79	27.01	PASS
Band4	20	20050	1	#Max	QPSK	24.00	2.79	26.79	PASS
Band4	20	20050	50	#0	QPSK	23.19	2.79	25.98	PASS
Band4	20	20050	50	#Mid	QPSK	23.49	2.79	26.28	PASS
Band4	20	20050	50	#Max	QPSK	23.49	2.79	26.28	PASS
Band4	20	20050	100	#0	QPSK	22.91	2.79	25.70	PASS
Band4	20	20175	1	#0	QPSK	24.92	2.79	27.71	PASS
Band4	20	20175	1	#Mid	QPSK	25.13	2.79	27.92	PASS
Band4	20	20175	1	#Max	QPSK	23.57	2.79	26.36	PASS
Band4	20	20175	50	#0	QPSK	24.34	2.79	27.13	PASS
Band4	20	20175	50	#Mid	QPSK	24.12	2.79	26.91	PASS
Band4	20	20175	50	#Max	QPSK	24.34	2.79	27.13	PASS
Band4	20	20175	100	#0	QPSK	23.92	2.79	26.71	PASS
Band4	20	20300	1	#0	QPSK	25.28	2.79	28.07	PASS
Band4	20	20300	1	#Mid	QPSK	23.99	2.79	26.78	PASS
Band4	20	20300	1	#Max	QPSK	23.82	2.79	26.61	PASS
Band4	20	20300	50	#0	QPSK	23.24	2.79	26.03	PASS
Band4	20	20300	50	#Mid	QPSK	23.02	2.79	25.81	PASS
Band4	20	20300	50	#Max	QPSK	23.32	2.79	26.11	PASS
Band4	20	20300	100	#0	QPSK	22.90	2.79	25.69	PASS

Appendix 2. Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (C)	Result (Hz)	Result (ppm)	Verdict
Band4	1.4	19957	6	#0	QPSK	LV	NT	-6.58	-0.004	PASS
Band4	1.4	19957	6	#0	QPSK	NV	NT	-3.13	-0.002	PASS
Band4	1.4	19957	6	#0	QPSK	HV	NT	-0.33	0.000	PASS
Band4	1.4	19957	6	#0	16QAM	LV	NT	1.92	0.001	PASS
Band4	1.4	19957	6	#0	16QAM	NV	NT	2.32	0.001	PASS
Band4	1.4	19957	6	#0	16QAM	HV	NT	2.86	0.002	PASS
Band4	1.4	20175	6	#0	QPSK	LV	NT	-0.54	0.000	PASS
Band4	1.4	20175	6	#0	QPSK	NV	NT	-3.49	-0.002	PASS
Band4	1.4	20175	6	#0	QPSK	HV	NT	-4.05	-0.002	PASS
Band4	1.4	20175	6	#0	16QAM	LV	NT	-0.40	0.000	PASS
Band4	1.4	20175	6	#0	16QAM	NV	NT	4.62	0.003	PASS
Band4	1.4	20175	6	#0	16QAM	HV	NT	4.51	0.003	PASS
Band4	1.4	20393	6	#0	QPSK	LV	NT	-5.29	-0.003	PASS
Band4	1.4	20393	6	#0	QPSK	NV	NT	-4.62	-0.003	PASS
Band4	1.4	20393	6	#0	QPSK	HV	NT	-5.38	-0.003	PASS
Band4	1.4	20393	6	#0	16QAM	LV	NT	-2.09	-0.001	PASS
Band4	1.4	20393	6	#0	16QAM	NV	NT	-3.35	-0.002	PASS
Band4	1.4	20393	6	#0	16QAM	HV	NT	-3.42	-0.002	PASS
Band4	3	19965	15	#0	QPSK	LV	NT	-8.94	-0.005	PASS
Band4	3	19965	15	#0	QPSK	NV	NT	-1.30	-0.001	PASS
Band4	3	19965	15	#0	QPSK	HV	NT	6.31	0.004	PASS
Band4	3	19965	15	#0	16QAM	LV	NT	5.48	0.003	PASS
Band4	3	19965	15	#0	16QAM	NV	NT	3.48	0.002	PASS
Band4	3	19965	15	#0	16QAM	HV	NT	3.00	0.002	PASS
Band4	3	20175	15	#0	QPSK	LV	NT	-4.51	-0.003	PASS
Band4	3	20175	15	#0	QPSK	NV	NT	-0.93	-0.001	PASS
Band4	3	20175	15	#0	QPSK	HV	NT	-4.89	-0.003	PASS
Band4	3	20175	15	#0	16QAM	LV	NT	-5.39	-0.003	PASS
Band4	3	20175	15	#0	16QAM	NV	NT	-6.81	-0.004	PASS
Band4	3	20175	15	#0	16QAM	HV	NT	-6.29	-0.004	PASS
Band4	3	20385	15	#0	QPSK	LV	NT	-4.73	-0.003	PASS
Band4	3	20385	15	#0	QPSK	NV	NT	-4.75	-0.003	PASS
Band4	3	20385	15	#0	QPSK	HV	NT	-5.34	-0.003	PASS
Band4	3	20385	15	#0	16QAM	LV	NT	-3.02	-0.002	PASS
Band4	3	20385	15	#0	16QAM	NV	NT	-3.72	-0.002	PASS
Band4	3	20385	15	#0	16QAM	HV	NT	-2.88	-0.002	PASS
Band4	5	19975	25	#0	QPSK	LV	NT	-10.90	-0.006	PASS
Band4	5	19975	25	#0	QPSK	NV	NT	1.77	0.001	PASS

Band4	5	19975	25	#0	QPSK	HV	NT	5.84	0.003	PASS
Band4	5	19975	25	#0	16QAM	LV	NT	4.06	0.002	PASS
Band4	5	19975	25	#0	16QAM	NV	NT	4.61	0.003	PASS
Band4	5	19975	25	#0	16QAM	HV	NT	6.04	0.004	PASS
Band4	5	20175	25	#0	QPSK	LV	NT	-4.53	-0.003	PASS
Band4	5	20175	25	#0	QPSK	NV	NT	-1.24	-0.001	PASS
Band4	5	20175	25	#0	QPSK	HV	NT	-4.58	-0.003	PASS
Band4	5	20175	25	#0	16QAM	LV	NT	-5.19	-0.003	PASS
Band4	5	20175	25	#0	16QAM	NV	NT	-4.91	-0.003	PASS
Band4	5	20175	25	#0	16QAM	HV	NT	-4.49	-0.003	PASS
Band4	5	20375	25	#0	QPSK	LV	NT	-5.36	-0.003	PASS
Band4	5	20375	25	#0	QPSK	NV	NT	-4.72	-0.003	PASS
Band4	5	20375	25	#0	QPSK	HV	NT	-2.72	-0.002	PASS
Band4	5	20375	25	#0	16QAM	LV	NT	-4.38	-0.002	PASS
Band4	5	20375	25	#0	16QAM	NV	NT	-4.06	-0.002	PASS
Band4	5	20375	25	#0	16QAM	HV	NT	-4.16	-0.002	PASS
Band4	10	20000	50	#0	QPSK	LV	NT	-8.73	-0.005	PASS
Band4	10	20000	50	#0	QPSK	NV	NT	2.36	0.001	PASS
Band4	10	20000	50	#0	QPSK	HV	NT	5.38	0.003	PASS
Band4	10	20175	50	#0	QPSK	LV	NT	7.44	0.004	PASS
Band4	10	20175	50	#0	QPSK	NV	NT	4.66	0.003	PASS
Band4	10	20175	50	#0	QPSK	HV	NT	4.81	0.003	PASS
Band4	10	20350	50	#0	QPSK	LV	NT	-6.87	-0.004	PASS
Band4	10	20350	50	#0	QPSK	NV	NT	-4.76	-0.003	PASS
Band4	10	20350	50	#0	QPSK	HV	NT	-4.31	-0.002	PASS
Band4	15	20025	75	#0	QPSK	LV	NT	-7.77	-0.005	PASS
Band4	15	20025	75	#0	QPSK	NV	NT	4.91	0.003	PASS
Band4	15	20025	75	#0	QPSK	HV	NT	5.25	0.003	PASS
Band4	15	20175	75	#0	QPSK	LV	NT	3.23	0.002	PASS
Band4	15	20175	75	#0	QPSK	NV	NT	4.42	0.003	PASS
Band4	15	20175	75	#0	QPSK	HV	NT	3.52	0.002	PASS
Band4	15	20325	75	#0	QPSK	LV	NT	-3.85	-0.002	PASS
Band4	15	20325	75	#0	QPSK	NV	NT	-3.81	-0.002	PASS
Band4	15	20325	75	#0	QPSK	HV	NT	-5.54	-0.003	PASS
Band4	20	20050	100	#0	QPSK	LV	NT	-7.65	-0.004	PASS
Band4	20	20050	100	#0	QPSK	NV	NT	4.09	0.002	PASS
Band4	20	20050	100	#0	QPSK	HV	NT	3.71	0.002	PASS
Band4	20	20175	100	#0	QPSK	LV	NT	-4.45	-0.003	PASS
Band4	20	20175	100	#0	QPSK	NV	NT	3.06	0.002	PASS
Band4	20	20175	100	#0	QPSK	HV	NT	5.72	0.003	PASS
Band4	20	20300	100	#0	QPSK	LV	NT	-5.15	-0.003	PASS
Band4	20	20300	100	#0	QPSK	NV	NT	-3.86	-0.002	PASS
Band4	20	20300	100	#0	QPSK	HV	NT	-3.43	-0.002	PASS

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperatue (C)	Result (Hz)	Result (ppm)	Verdict
Band4	1.4	19957	6	#0	QPSK	NV	-30	-6.02	-0.004	PASS
Band4	1.4	19957	6	#0	QPSK	NV	-20	-6.19	-0.004	PASS
Band4	1.4	19957	6	#0	QPSK	NV	-10	-6.14	-0.004	PASS
Band4	1.4	19957	6	#0	QPSK	NV	0	-5.89	-0.003	PASS
Band4	1.4	19957	6	#0	QPSK	NV	10	-5.32	-0.003	PASS
Band4	1.4	19957	6	#0	QPSK	NV	20	-5.12	-0.003	PASS
Band4	1.4	19957	6	#0	QPSK	NV	30	-4.94	-0.003	PASS
Band4	1.4	19957	6	#0	QPSK	NV	40	-4.32	-0.003	PASS
Band4	1.4	19957	6	#0	QPSK	NV	50	-4.98	-0.003	PASS
Band4	1.4	19957	6	#0	16QAM	NV	-30	-7.14	-0.004	PASS
Band4	1.4	19957	6	#0	16QAM	NV	-20	-7.88	-0.005	PASS
Band4	1.4	19957	6	#0	16QAM	NV	-10	-5.76	-0.003	PASS
Band4	1.4	19957	6	#0	16QAM	NV	0	-5.15	-0.003	PASS
Band4	1.4	19957	6	#0	16QAM	NV	10	-6.22	-0.004	PASS
Band4	1.4	19957	6	#0	16QAM	NV	20	-5.06	-0.003	PASS
Band4	1.4	19957	6	#0	16QAM	NV	30	-5.01	-0.003	PASS
Band4	1.4	19957	6	#0	16QAM	NV	40	-6.54	-0.004	PASS
Band4	1.4	19957	6	#0	16QAM	NV	50	-7.51	-0.004	PASS
Band4	1.4	20175	6	#0	QPSK	NV	-30	-3.83	-0.002	PASS
Band4	1.4	20175	6	#0	QPSK	NV	-20	-5.11	-0.003	PASS
Band4	1.4	20175	6	#0	QPSK	NV	-10	-4.21	-0.002	PASS
Band4	1.4	20175	6	#0	QPSK	NV	0	-5.66	-0.003	PASS
Band4	1.4	20175	6	#0	QPSK	NV	10	-5.82	-0.003	PASS
Band4	1.4	20175	6	#0	QPSK	NV	20	-6.55	-0.004	PASS
Band4	1.4	20175	6	#0	QPSK	NV	30	-5.81	-0.003	PASS
Band4	1.4	20175	6	#0	QPSK	NV	40	-6.14	-0.004	PASS
Band4	1.4	20175	6	#0	QPSK	NV	50	-4.49	-0.003	PASS
Band4	1.4	20175	6	#0	16QAM	NV	-30	-4.38	-0.003	PASS
Band4	1.4	20175	6	#0	16QAM	NV	-20	-3.69	-0.002	PASS
Band4	1.4	20175	6	#0	16QAM	NV	-10	-5.66	-0.003	PASS
Band4	1.4	20175	6	#0	16QAM	NV	0	-5.94	-0.003	PASS
Band4	1.4	20175	6	#0	16QAM	NV	10	-5.89	-0.003	PASS
Band4	1.4	20175	6	#0	16QAM	NV	20	-4.85	-0.003	PASS
Band4	1.4	20175	6	#0	16QAM	NV	30	-3.12	-0.002	PASS
Band4	1.4	20175	6	#0	16QAM	NV	40	-5.09	-0.003	PASS
Band4	1.4	20175	6	#0	16QAM	NV	50	-4.58	-0.003	PASS
Band4	1.4	20393	6	#0	QPSK	NV	-30	-5.12	-0.003	PASS
Band4	1.4	20393	6	#0	QPSK	NV	-20	-6.90	-0.004	PASS
Band4	1.4	20393	6	#0	QPSK	NV	-10	-7.55	-0.004	PASS
Band4	1.4	20393	6	#0	QPSK	NV	0	-3.58	-0.002	PASS

Band4	1.4	20393	6	#0	QPSK	NV	10	-5.87	-0.003	PASS
Band4	1.4	20393	6	#0	QPSK	NV	20	-5.82	-0.003	PASS
Band4	1.4	20393	6	#0	QPSK	NV	30	-7.45	-0.004	PASS
Band4	1.4	20393	6	#0	QPSK	NV	40	-6.79	-0.004	PASS
Band4	1.4	20393	6	#0	QPSK	NV	50	-6.94	-0.004	PASS
Band4	1.4	20393	6	#0	16QAM	NV	-30	-1.69	-0.001	PASS
Band4	1.4	20393	6	#0	16QAM	NV	-20	-4.68	-0.003	PASS
Band4	1.4	20393	6	#0	16QAM	NV	-10	-3.46	-0.002	PASS
Band4	1.4	20393	6	#0	16QAM	NV	0	-2.59	-0.001	PASS
Band4	1.4	20393	6	#0	16QAM	NV	10	-6.35	-0.004	PASS
Band4	1.4	20393	6	#0	16QAM	NV	20	-4.41	-0.003	PASS
Band4	1.4	20393	6	#0	16QAM	NV	30	-3.25	-0.002	PASS
Band4	1.4	20393	6	#0	16QAM	NV	40	-5.41	-0.003	PASS
Band4	1.4	20393	6	#0	16QAM	NV	50	-2.16	-0.001	PASS
Band4	3	19965	15	#0	QPSK	NV	-30	-8.97	-0.005	PASS
Band4	3	19965	15	#0	QPSK	NV	-20	-3.66	-0.002	PASS
Band4	3	19965	15	#0	QPSK	NV	-10	-2.27	-0.001	PASS
Band4	3	19965	15	#0	QPSK	NV	0	2.19	0.001	PASS
Band4	3	19965	15	#0	QPSK	NV	10	0.62	0.000	PASS
Band4	3	19965	15	#0	QPSK	NV	20	2.57	0.002	PASS
Band4	3	19965	15	#0	QPSK	NV	30	-6.07	-0.004	PASS
Band4	3	19965	15	#0	QPSK	NV	40	-4.98	-0.003	PASS
Band4	3	19965	15	#0	QPSK	NV	50	-4.12	-0.002	PASS
Band4	3	19965	15	#0	16QAM	NV	-30	-6.27	-0.004	PASS
Band4	3	19965	15	#0	16QAM	NV	-20	-4.18	-0.002	PASS
Band4	3	19965	15	#0	16QAM	NV	-10	-6.39	-0.004	PASS
Band4	3	19965	15	#0	16QAM	NV	0	-6.77	-0.004	PASS
Band4	3	19965	15	#0	16QAM	NV	10	-4.81	-0.003	PASS
Band4	3	19965	15	#0	16QAM	NV	20	-4.96	-0.003	PASS
Band4	3	19965	15	#0	16QAM	NV	30	-3.85	-0.002	PASS
Band4	3	19965	15	#0	16QAM	NV	40	-3.09	-0.002	PASS
Band4	3	19965	15	#0	16QAM	NV	50	-5.99	-0.003	PASS
Band4	3	20175	15	#0	QPSK	NV	-30	-4.45	-0.003	PASS
Band4	3	20175	15	#0	QPSK	NV	-20	-8.23	-0.005	PASS
Band4	3	20175	15	#0	QPSK	NV	-10	-5.41	-0.003	PASS
Band4	3	20175	15	#0	QPSK	NV	0	-5.06	-0.003	PASS
Band4	3	20175	15	#0	QPSK	NV	10	-4.28	-0.002	PASS
Band4	3	20175	15	#0	QPSK	NV	20	-6.52	-0.004	PASS
Band4	3	20175	15	#0	QPSK	NV	30	-6.37	-0.004	PASS
Band4	3	20175	15	#0	QPSK	NV	40	-5.35	-0.003	PASS
Band4	3	20175	15	#0	QPSK	NV	50	-5.09	-0.003	PASS
Band4	3	20175	15	#0	16QAM	NV	-30	-1.54	-0.001	PASS
Band4	3	20175	15	#0	16QAM	NV	-20	-4.59	-0.003	PASS

Band4	3	20175	15	#0	16QAM	NV	-10	-4.03	-0.002	PASS
Band4	3	20175	15	#0	16QAM	NV	0	-3.73	-0.002	PASS
Band4	3	20175	15	#0	16QAM	NV	10	-4.39	-0.003	PASS
Band4	3	20175	15	#0	16QAM	NV	20	-4.99	-0.003	PASS
Band4	3	20175	15	#0	16QAM	NV	30	-6.28	-0.004	PASS
Band4	3	20175	15	#0	16QAM	NV	40	-4.94	-0.003	PASS
Band4	3	20175	15	#0	16QAM	NV	50	-2.53	-0.001	PASS
Band4	3	20385	15	#0	QPSK	NV	-30	-6.54	-0.004	PASS
Band4	3	20385	15	#0	QPSK	NV	-20	-3.65	-0.002	PASS
Band4	3	20385	15	#0	QPSK	NV	-10	-4.75	-0.003	PASS
Band4	3	20385	15	#0	QPSK	NV	0	-2.72	-0.002	PASS
Band4	3	20385	15	#0	QPSK	NV	10	-3.20	-0.002	PASS
Band4	3	20385	15	#0	QPSK	NV	20	-5.88	-0.003	PASS
Band4	3	20385	15	#0	QPSK	NV	30	-3.52	-0.002	PASS
Band4	3	20385	15	#0	QPSK	NV	40	-5.54	-0.003	PASS
Band4	3	20385	15	#0	QPSK	NV	50	-4.49	-0.003	PASS
Band4	3	20385	15	#0	16QAM	NV	-30	-4.59	-0.003	PASS
Band4	3	20385	15	#0	16QAM	NV	-20	-2.40	-0.001	PASS
Band4	3	20385	15	#0	16QAM	NV	-10	-4.68	-0.003	PASS
Band4	3	20385	15	#0	16QAM	NV	0	0.27	0.000	PASS
Band4	3	20385	15	#0	16QAM	NV	10	-2.39	-0.001	PASS
Band4	3	20385	15	#0	16QAM	NV	20	-3.50	-0.002	PASS
Band4	3	20385	15	#0	16QAM	NV	30	-3.09	-0.002	PASS
Band4	3	20385	15	#0	16QAM	NV	40	-3.36	-0.002	PASS
Band4	3	20385	15	#0	16QAM	NV	50	-2.60	-0.001	PASS
Band4	5	19975	25	#0	QPSK	NV	-30	-10.30	-0.006	PASS
Band4	5	19975	25	#0	QPSK	NV	-20	-2.25	-0.001	PASS
Band4	5	19975	25	#0	QPSK	NV	-10	4.99	0.003	PASS
Band4	5	19975	25	#0	QPSK	NV	0	4.46	0.003	PASS
Band4	5	19975	25	#0	QPSK	NV	10	4.81	0.003	PASS
Band4	5	19975	25	#0	QPSK	NV	20	2.92	0.002	PASS
Band4	5	19975	25	#0	QPSK	NV	30	0.74	0.000	PASS
Band4	5	19975	25	#0	QPSK	NV	40	4.53	0.003	PASS
Band4	5	19975	25	#0	QPSK	NV	50	3.98	0.002	PASS
Band4	5	19975	25	#0	16QAM	NV	-30	3.83	0.002	PASS
Band4	5	19975	25	#0	16QAM	NV	-20	-3.36	-0.002	PASS
Band4	5	19975	25	#0	16QAM	NV	-10	-4.01	-0.002	PASS
Band4	5	19975	25	#0	16QAM	NV	0	-7.35	-0.004	PASS
Band4	5	19975	25	#0	16QAM	NV	10	-5.08	-0.003	PASS
Band4	5	19975	25	#0	16QAM	NV	20	-5.71	-0.003	PASS
Band4	5	19975	25	#0	16QAM	NV	30	-3.40	-0.002	PASS
Band4	5	19975	25	#0	16QAM	NV	40	-4.29	-0.003	PASS
Band4	5	19975	25	#0	16QAM	NV	50	-2.85	-0.002	PASS

Band4	5	20175	25	#0	QPSK	NV	-30	-6.74	-0.004	PASS
Band4	5	20175	25	#0	QPSK	NV	-20	-6.44	-0.004	PASS
Band4	5	20175	25	#0	QPSK	NV	-10	-2.60	-0.002	PASS
Band4	5	20175	25	#0	QPSK	NV	0	-1.17	-0.001	PASS
Band4	5	20175	25	#0	QPSK	NV	10	-3.43	-0.002	PASS
Band4	5	20175	25	#0	QPSK	NV	20	-6.78	-0.004	PASS
Band4	5	20175	25	#0	QPSK	NV	30	-4.05	-0.002	PASS
Band4	5	20175	25	#0	QPSK	NV	40	-6.39	-0.004	PASS
Band4	5	20175	25	#0	QPSK	NV	50	-5.59	-0.003	PASS
Band4	5	20175	25	#0	16QAM	NV	-30	-3.89	-0.002	PASS
Band4	5	20175	25	#0	16QAM	NV	-20	-2.30	-0.001	PASS
Band4	5	20175	25	#0	16QAM	NV	-10	-5.71	-0.003	PASS
Band4	5	20175	25	#0	16QAM	NV	0	-4.05	-0.002	PASS
Band4	5	20175	25	#0	16QAM	NV	10	-3.98	-0.002	PASS
Band4	5	20175	25	#0	16QAM	NV	20	-2.92	-0.002	PASS
Band4	5	20175	25	#0	16QAM	NV	30	-2.98	-0.002	PASS
Band4	5	20175	25	#0	16QAM	NV	40	-1.99	-0.001	PASS
Band4	5	20175	25	#0	16QAM	NV	50	-1.44	-0.001	PASS
Band4	5	20375	25	#0	QPSK	NV	-30	-6.09	-0.003	PASS
Band4	5	20375	25	#0	QPSK	NV	-20	-5.45	-0.003	PASS
Band4	5	20375	25	#0	QPSK	NV	-10	-1.16	-0.001	PASS
Band4	5	20375	25	#0	QPSK	NV	0	0.62	0.000	PASS
Band4	5	20375	25	#0	QPSK	NV	10	-2.05	-0.001	PASS
Band4	5	20375	25	#0	QPSK	NV	20	-4.48	-0.003	PASS
Band4	5	20375	25	#0	QPSK	NV	30	-3.23	-0.002	PASS
Band4	5	20375	25	#0	QPSK	NV	40	-3.02	-0.002	PASS
Band4	5	20375	25	#0	QPSK	NV	50	-5.32	-0.003	PASS
Band4	5	20375	25	#0	16QAM	NV	-30	-4.49	-0.003	PASS
Band4	5	20375	25	#0	16QAM	NV	-20	-4.12	-0.002	PASS
Band4	5	20375	25	#0	16QAM	NV	-10	-3.15	-0.002	PASS
Band4	5	20375	25	#0	16QAM	NV	0	-6.54	-0.004	PASS
Band4	5	20375	25	#0	16QAM	NV	10	-3.68	-0.002	PASS
Band4	5	20375	25	#0	16QAM	NV	20	-5.51	-0.003	PASS
Band4	5	20375	25	#0	16QAM	NV	30	-4.25	-0.002	PASS
Band4	5	20375	25	#0	16QAM	NV	40	-2.37	-0.001	PASS
Band4	5	20375	25	#0	16QAM	NV	50	-6.32	-0.004	PASS
Band4	10	20000	50	#0	QPSK	NV	-30	-6.11	-0.004	PASS
Band4	10	20000	50	#0	QPSK	NV	-20	0.29	0.000	PASS
Band4	10	20000	50	#0	QPSK	NV	-10	5.12	0.003	PASS
Band4	10	20000	50	#0	QPSK	NV	0	6.01	0.004	PASS
Band4	10	20000	50	#0	QPSK	NV	10	5.89	0.003	PASS
Band4	10	20000	50	#0	QPSK	NV	20	4.08	0.002	PASS
Band4	10	20000	50	#0	QPSK	NV	30	1.66	0.001	PASS

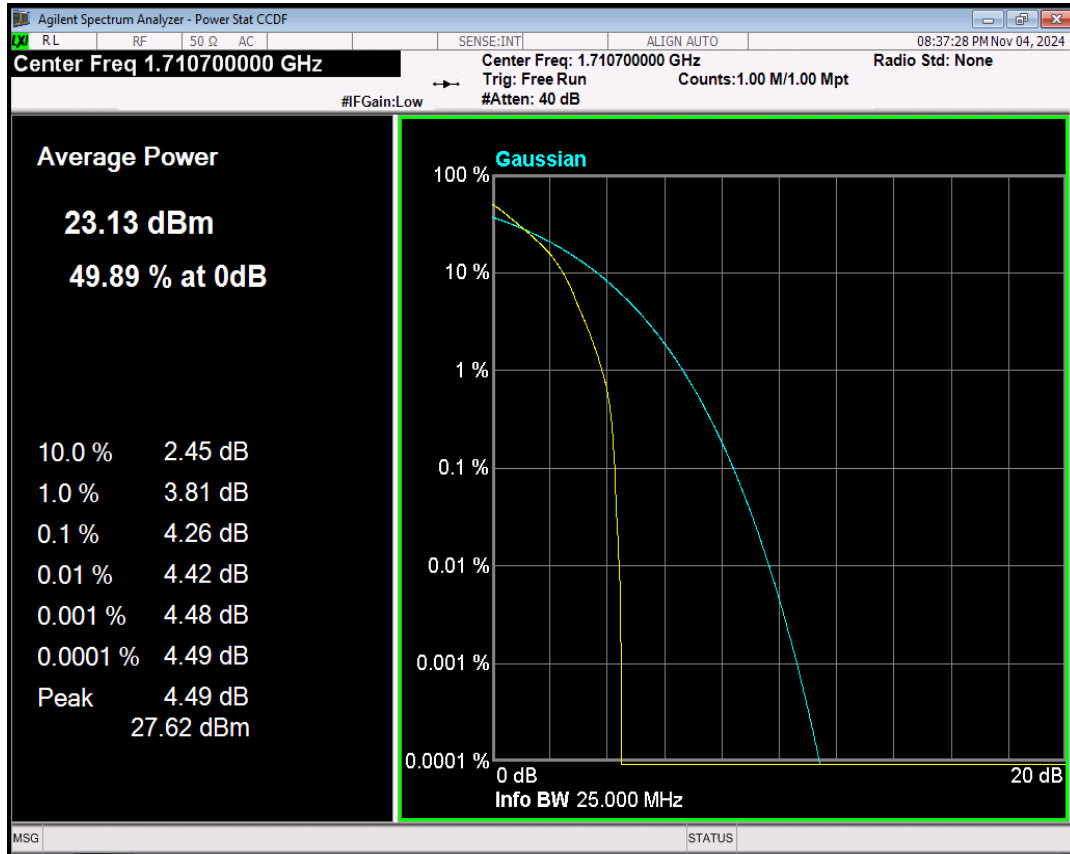
Band4	10	20000	50	#0	QPSK	NV	40	3.32	0.002	PASS
Band4	10	20000	50	#0	QPSK	NV	50	-3.98	-0.002	PASS
Band4	10	20175	50	#0	QPSK	NV	-30	-5.24	-0.003	PASS
Band4	10	20175	50	#0	QPSK	NV	-20	-4.98	-0.003	PASS
Band4	10	20175	50	#0	QPSK	NV	-10	-4.88	-0.003	PASS
Band4	10	20175	50	#0	QPSK	NV	0	-6.62	-0.004	PASS
Band4	10	20175	50	#0	QPSK	NV	10	-2.70	-0.002	PASS
Band4	10	20175	50	#0	QPSK	NV	20	-5.26	-0.003	PASS
Band4	10	20175	50	#0	QPSK	NV	30	-4.84	-0.003	PASS
Band4	10	20175	50	#0	QPSK	NV	40	-5.74	-0.003	PASS
Band4	10	20175	50	#0	QPSK	NV	50	-4.15	-0.002	PASS
Band4	10	20350	50	#0	QPSK	NV	-30	-4.78	-0.003	PASS
Band4	10	20350	50	#0	QPSK	NV	-20	-6.25	-0.004	PASS
Band4	10	20350	50	#0	QPSK	NV	-10	-6.62	-0.004	PASS
Band4	10	20350	50	#0	QPSK	NV	0	-6.54	-0.004	PASS
Band4	10	20350	50	#0	QPSK	NV	10	-5.41	-0.003	PASS
Band4	10	20350	50	#0	QPSK	NV	20	-5.84	-0.003	PASS
Band4	10	20350	50	#0	QPSK	NV	30	-4.98	-0.003	PASS
Band4	10	20350	50	#0	QPSK	NV	40	-6.01	-0.003	PASS
Band4	10	20350	50	#0	QPSK	NV	50	-3.82	-0.002	PASS
Band4	15	20025	75	#0	QPSK	NV	-30	-6.62	-0.004	PASS
Band4	15	20025	75	#0	QPSK	NV	-20	1.60	0.001	PASS
Band4	15	20025	75	#0	QPSK	NV	-10	2.33	0.001	PASS
Band4	15	20025	75	#0	QPSK	NV	0	4.06	0.002	PASS
Band4	15	20025	75	#0	QPSK	NV	10	4.36	0.003	PASS
Band4	15	20025	75	#0	QPSK	NV	20	2.95	0.002	PASS
Band4	15	20025	75	#0	QPSK	NV	30	2.90	0.002	PASS
Band4	15	20025	75	#0	QPSK	NV	40	3.98	0.002	PASS
Band4	15	20025	75	#0	QPSK	NV	50	2.72	0.002	PASS
Band4	15	20175	75	#0	QPSK	NV	-30	-4.52	-0.003	PASS
Band4	15	20175	75	#0	QPSK	NV	-20	-4.15	-0.002	PASS
Band4	15	20175	75	#0	QPSK	NV	-10	-1.43	-0.001	PASS
Band4	15	20175	75	#0	QPSK	NV	0	-5.35	-0.003	PASS
Band4	15	20175	75	#0	QPSK	NV	10	-5.08	-0.003	PASS
Band4	15	20175	75	#0	QPSK	NV	20	-3.45	-0.002	PASS
Band4	15	20175	75	#0	QPSK	NV	30	-5.08	-0.003	PASS
Band4	15	20175	75	#0	QPSK	NV	40	-5.41	-0.003	PASS
Band4	15	20175	75	#0	QPSK	NV	50	-5.34	-0.003	PASS
Band4	15	20325	75	#0	QPSK	NV	-30	-4.92	-0.003	PASS
Band4	15	20325	75	#0	QPSK	NV	-20	-4.01	-0.002	PASS
Band4	15	20325	75	#0	QPSK	NV	-10	-6.27	-0.004	PASS
Band4	15	20325	75	#0	QPSK	NV	0	-6.45	-0.004	PASS
Band4	15	20325	75	#0	QPSK	NV	10	-5.25	-0.003	PASS

Band4	15	20325	75	#0	QPSK	NV	20	-4.19	-0.002	PASS
Band4	15	20325	75	#0	QPSK	NV	30	-4.02	-0.002	PASS
Band4	15	20325	75	#0	QPSK	NV	40	-5.58	-0.003	PASS
Band4	15	20325	75	#0	QPSK	NV	50	-4.89	-0.003	PASS
Band4	20	20050	100	#0	QPSK	NV	-30	-7.38	-0.004	PASS
Band4	20	20050	100	#0	QPSK	NV	-20	3.63	0.002	PASS
Band4	20	20050	100	#0	QPSK	NV	-10	5.74	0.003	PASS
Band4	20	20050	100	#0	QPSK	NV	0	2.20	0.001	PASS
Band4	20	20050	100	#0	QPSK	NV	10	3.30	0.002	PASS
Band4	20	20050	100	#0	QPSK	NV	20	4.02	0.002	PASS
Band4	20	20050	100	#0	QPSK	NV	30	3.30	0.002	PASS
Band4	20	20050	100	#0	QPSK	NV	40	2.98	0.002	PASS
Band4	20	20050	100	#0	QPSK	NV	50	4.51	0.003	PASS
Band4	20	20175	100	#0	QPSK	NV	-30	-5.02	-0.003	PASS
Band4	20	20175	100	#0	QPSK	NV	-20	3.58	0.002	PASS
Band4	20	20175	100	#0	QPSK	NV	-10	2.52	0.001	PASS
Band4	20	20175	100	#0	QPSK	NV	0	-3.35	-0.002	PASS
Band4	20	20175	100	#0	QPSK	NV	10	-4.11	-0.002	PASS
Band4	20	20175	100	#0	QPSK	NV	20	-4.05	-0.002	PASS
Band4	20	20175	100	#0	QPSK	NV	30	-5.28	-0.003	PASS
Band4	20	20175	100	#0	QPSK	NV	40	-5.51	-0.003	PASS
Band4	20	20175	100	#0	QPSK	NV	50	-1.59	-0.001	PASS
Band4	20	20300	100	#0	QPSK	NV	-30	-4.21	-0.002	PASS
Band4	20	20300	100	#0	QPSK	NV	-20	-6.02	-0.003	PASS
Band4	20	20300	100	#0	QPSK	NV	-10	-3.71	-0.002	PASS
Band4	20	20300	100	#0	QPSK	NV	0	-4.16	-0.002	PASS
Band4	20	20300	100	#0	QPSK	NV	10	-3.75	-0.002	PASS
Band4	20	20300	100	#0	QPSK	NV	20	-4.01	-0.002	PASS
Band4	20	20300	100	#0	QPSK	NV	30	-5.06	-0.003	PASS
Band4	20	20300	100	#0	QPSK	NV	40	-3.15	-0.002	PASS
Band4	20	20300	100	#0	QPSK	NV	50	-5.56	-0.003	PASS

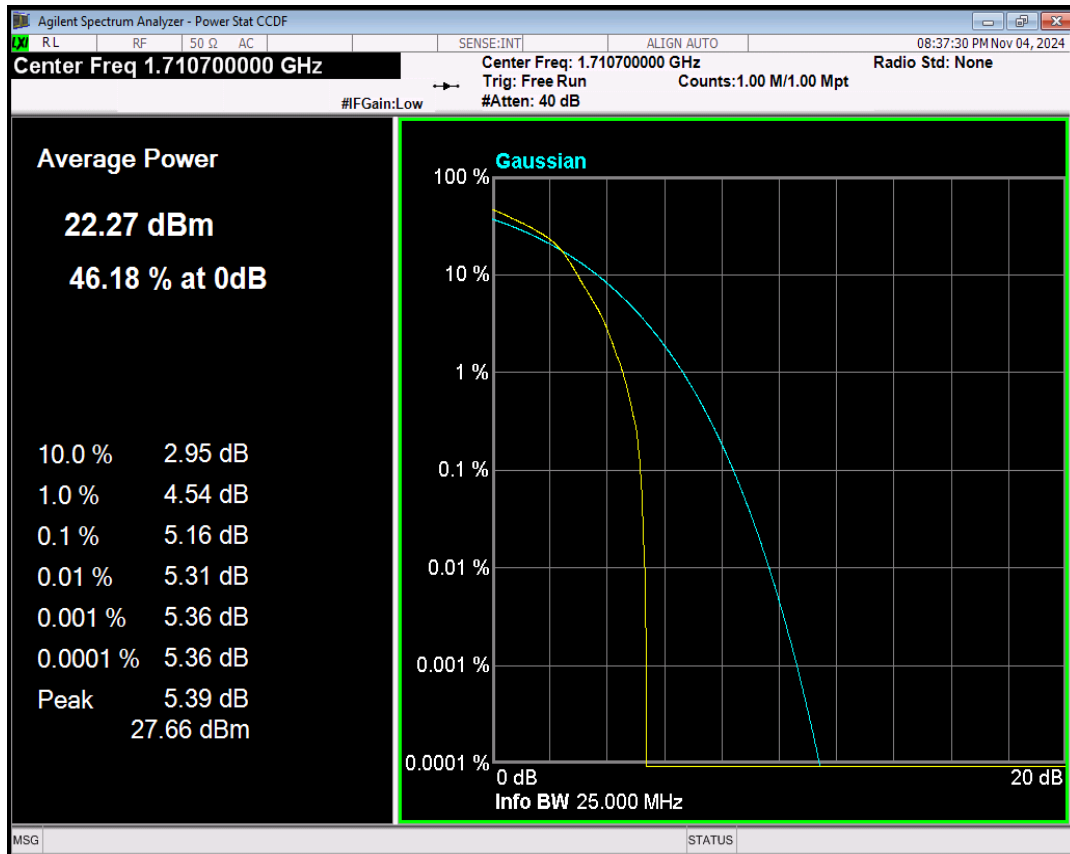
Appendix 3. Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band4	1.4	19957	1	#0	QPSK	4.26	13	PASS
Band4	1.4	19957	1	#0	16QAM	5.16	13	PASS
Band4	1.4	20175	1	#0	QPSK	3.35	13	PASS
Band4	1.4	20175	1	#0	16QAM	4.20	13	PASS
Band4	1.4	20393	1	#0	QPSK	4.83	13	PASS
Band4	1.4	20393	1	#0	16QAM	5.52	13	PASS
Band4	3	19965	1	#0	QPSK	4.34	13	PASS
Band4	3	19965	1	#0	16QAM	5.08	13	PASS
Band4	3	20175	1	#0	QPSK	3.16	13	PASS
Band4	3	20175	1	#0	16QAM	4.00	13	PASS
Band4	3	20385	1	#0	QPSK	4.85	13	PASS
Band4	3	20385	1	#0	16QAM	5.49	13	PASS
Band4	5	19975	1	#0	QPSK	4.30	13	PASS
Band4	5	19975	1	#0	16QAM	5.11	13	PASS
Band4	5	20175	1	#0	QPSK	3.15	13	PASS
Band4	5	20175	1	#0	16QAM	3.83	13	PASS
Band4	5	20375	1	#0	QPSK	4.88	13	PASS
Band4	5	20375	1	#0	16QAM	5.56	13	PASS
Band4	10	20000	1	#0	QPSK	4.26	13	PASS
Band4	10	20175	1	#0	QPSK	2.73	13	PASS
Band4	10	20350	1	#0	QPSK	3.95	13	PASS
Band4	15	20025	1	#0	QPSK	4.35	13	PASS
Band4	15	20175	1	#0	QPSK	2.91	13	PASS
Band4	15	20325	1	#0	QPSK	4.01	13	PASS
Band4	20	20050	1	#0	QPSK	4.23	13	PASS
Band4	20	20175	1	#0	QPSK	3.26	13	PASS
Band4	20	20300	1	#0	QPSK	3.55	13	PASS

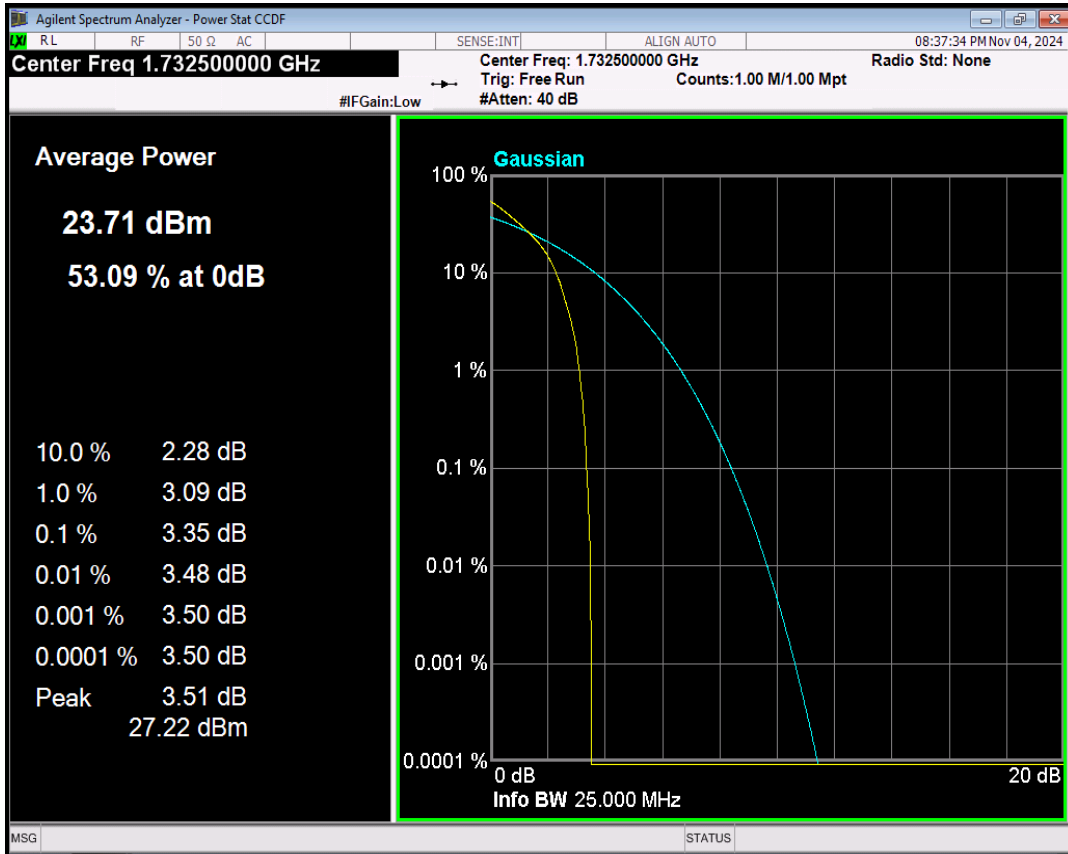
Band4 QPSK BW=1.4MHz Channel=19957 RB Size=1 Position=#0



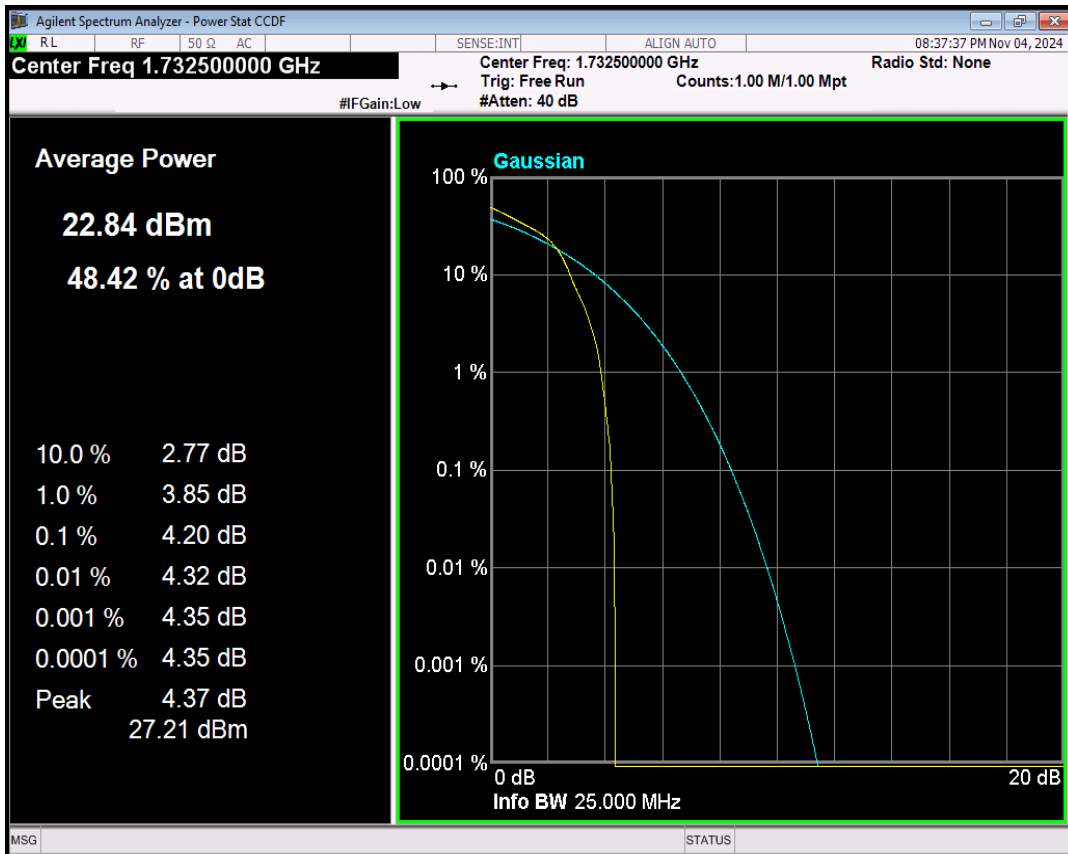
Band4 16QAM BW=1.4MHz Channel=19957 RB Size=1 Position=#0



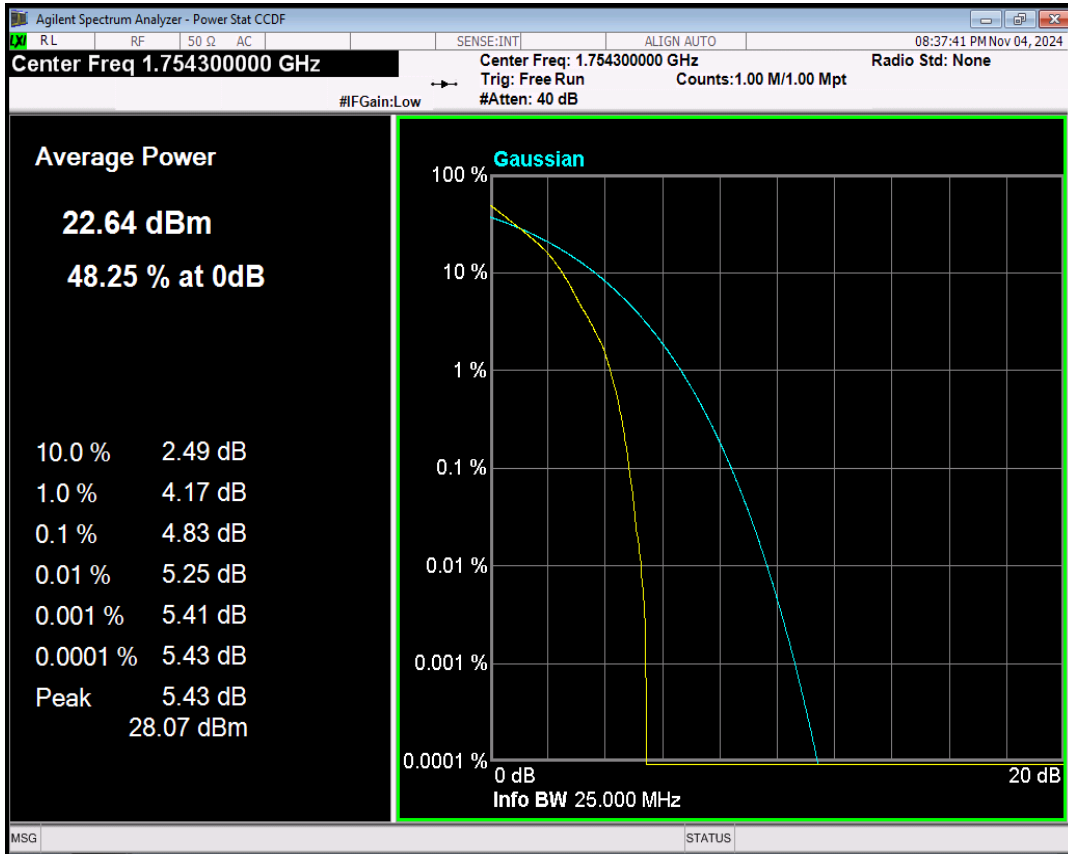
Band4 QPSK BW=1.4MHz Channel=20175 RB Size=1 Position=#0



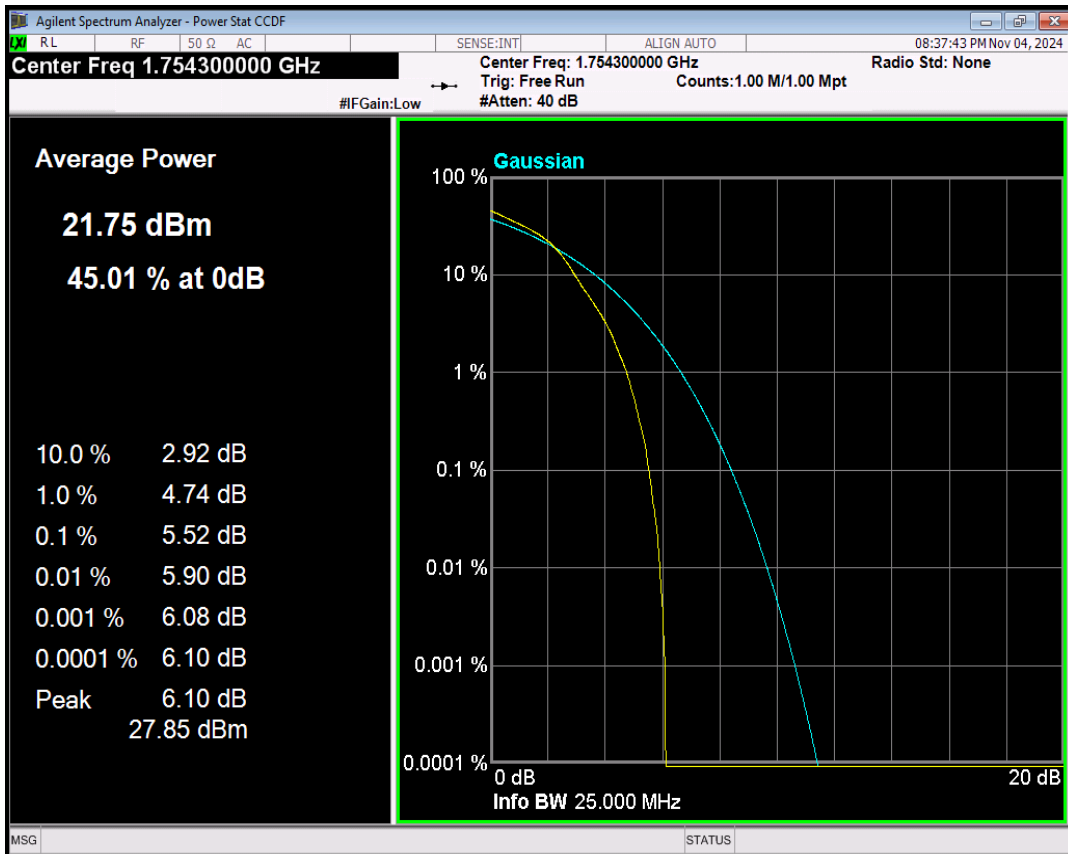
Band4 16QAM BW=1.4MHz Channel=20175 RB Size=1 Position=#0



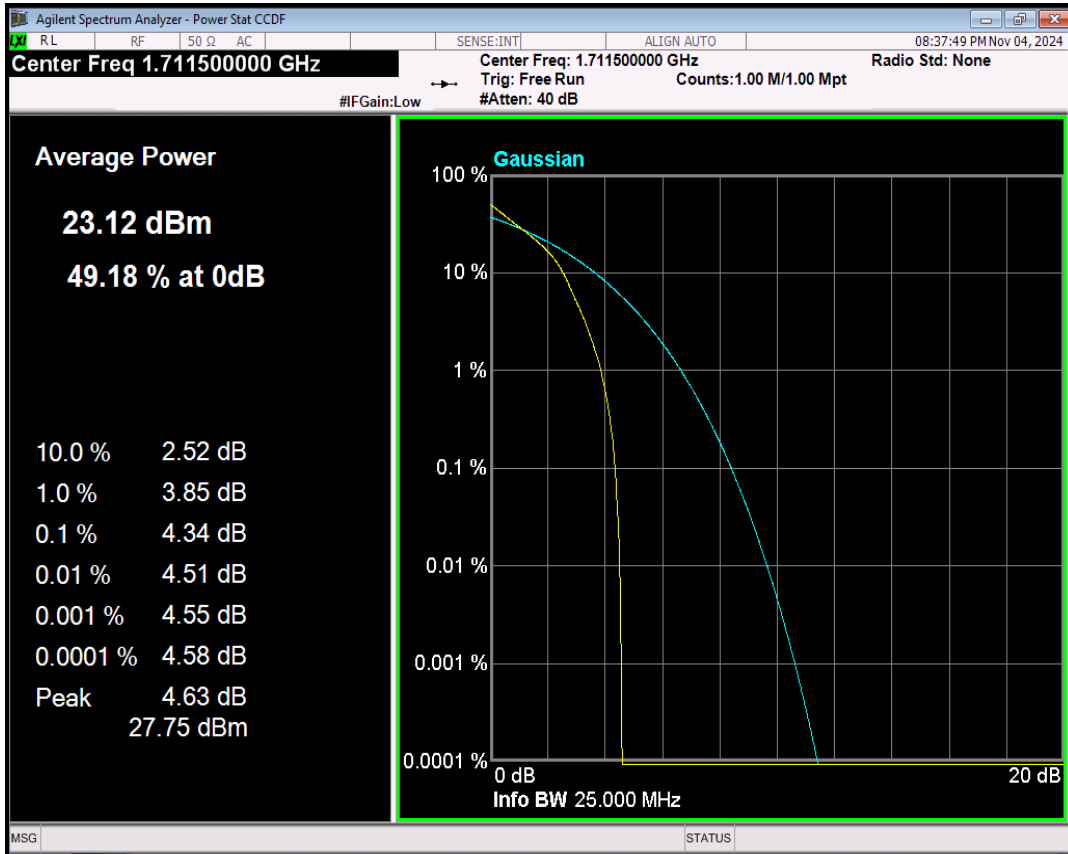
Band4 QPSK BW=1.4MHz Channel=20393 RB Size=1 Position=#0



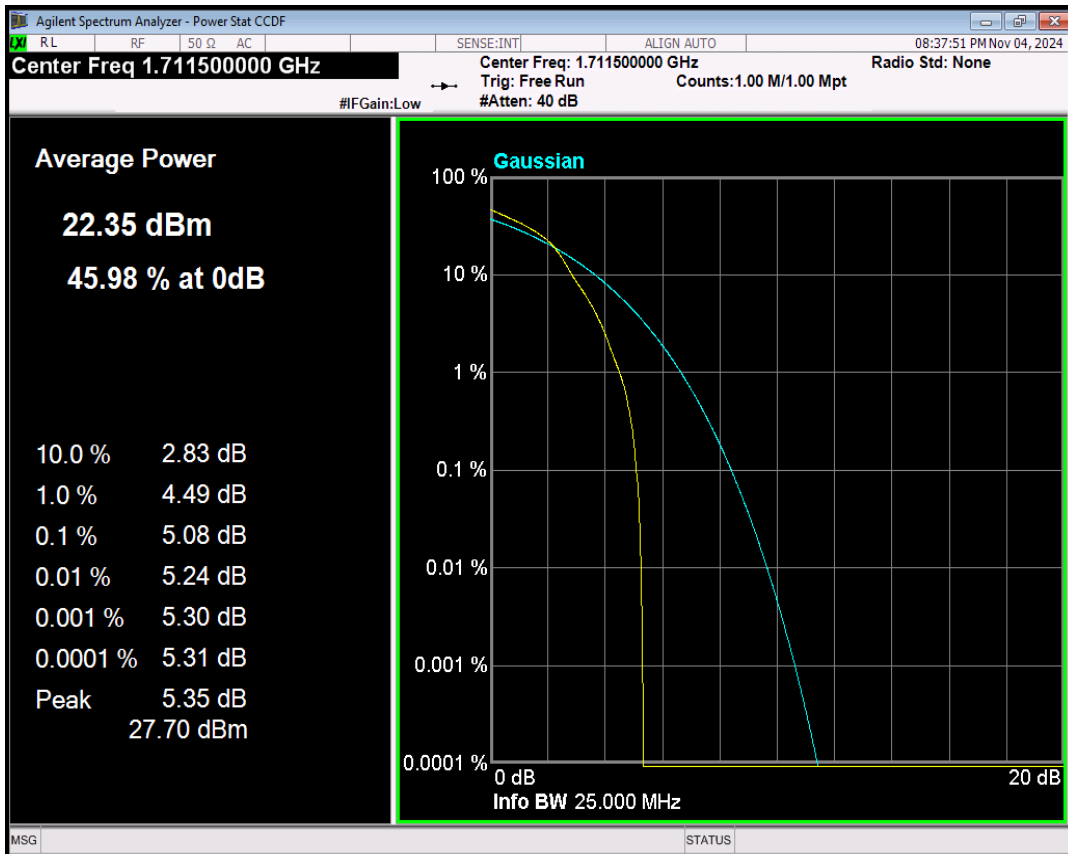
Band4 16QAM BW=1.4MHz Channel=20393 RB Size=1 Position=#0



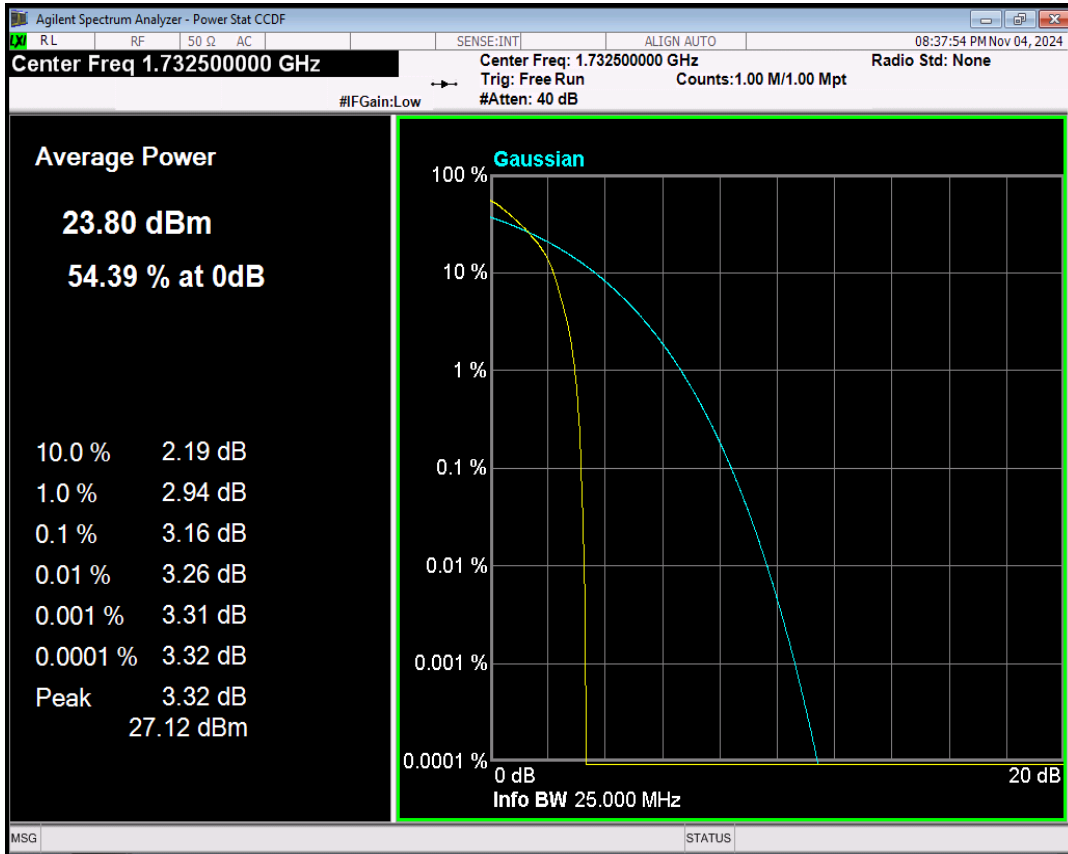
Band4 QPSK BW=3MHz Channel=19965 RB Size=1 Position=#0



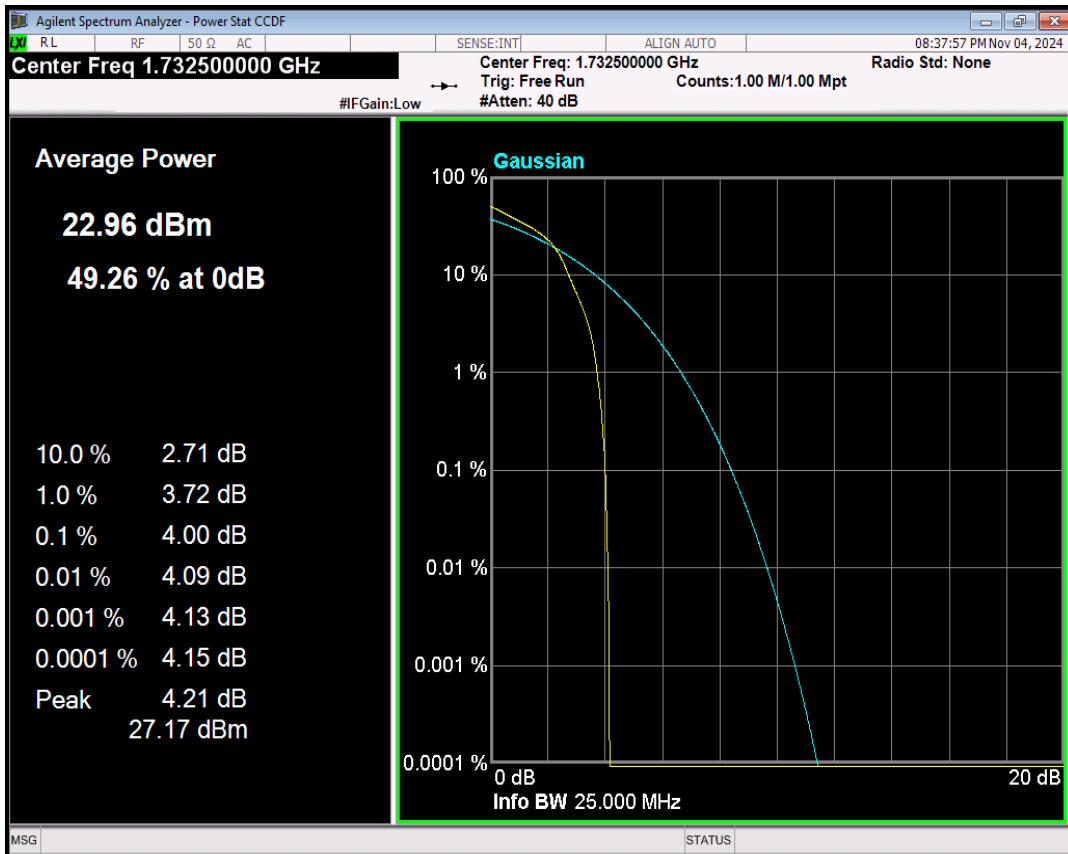
Band4 16QAM BW=3MHz Channel=19965 RB Size=1 Position=#0



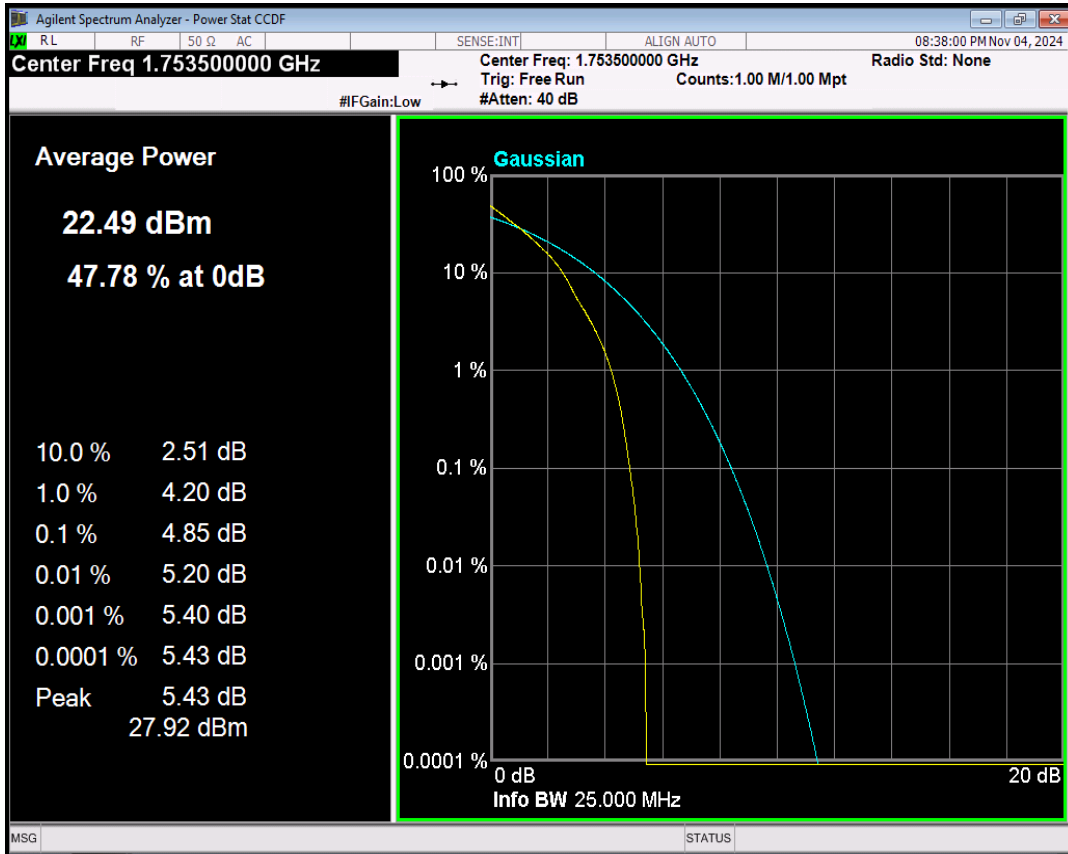
Band4 QPSK BW=3MHz Channel=20175 RB Size=1 Position=#0



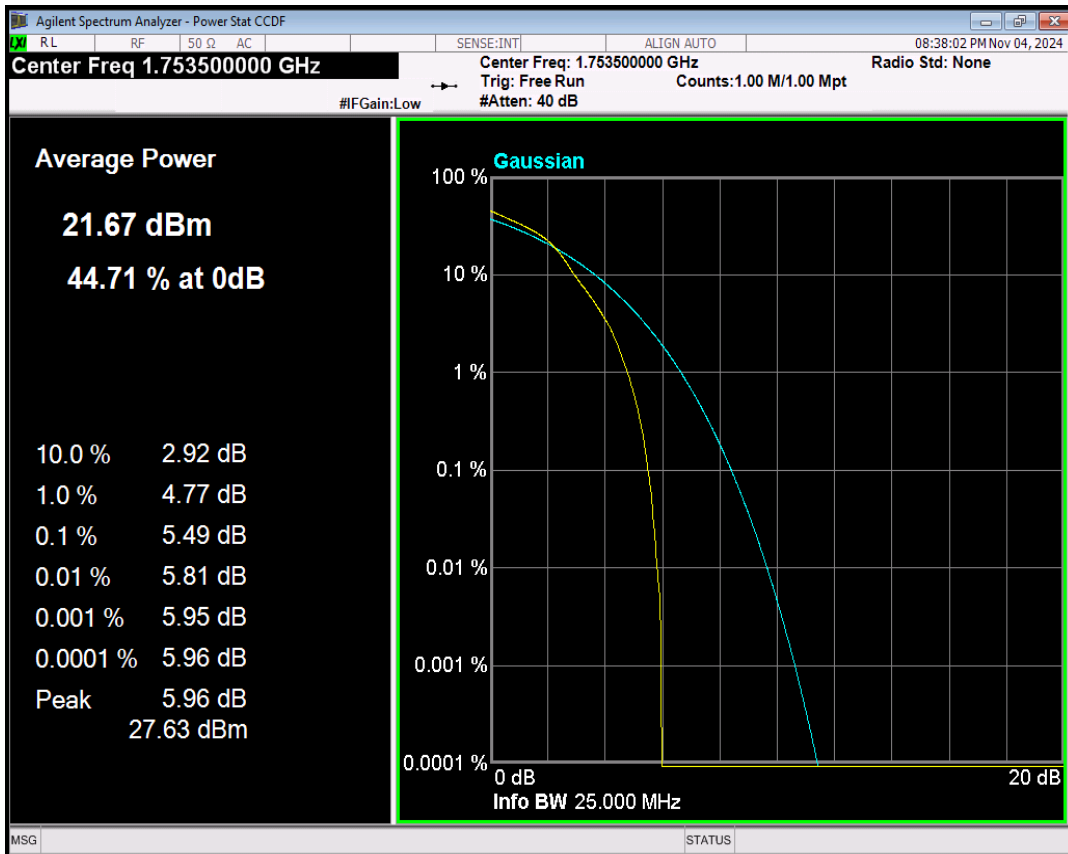
Band4 16QAM BW=3MHz Channel=20175 RB Size=1 Position=#0



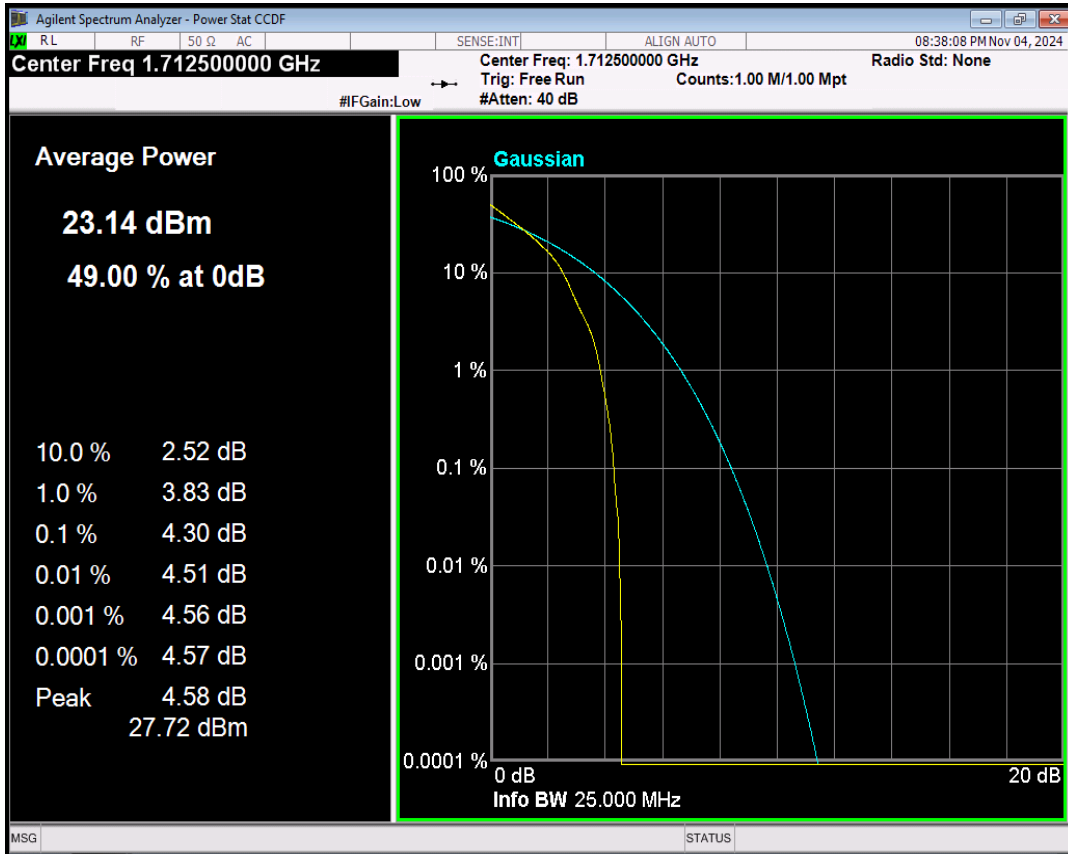
Band4 QPSK BW=3MHz Channel=20385 RB Size=1 Position=#0



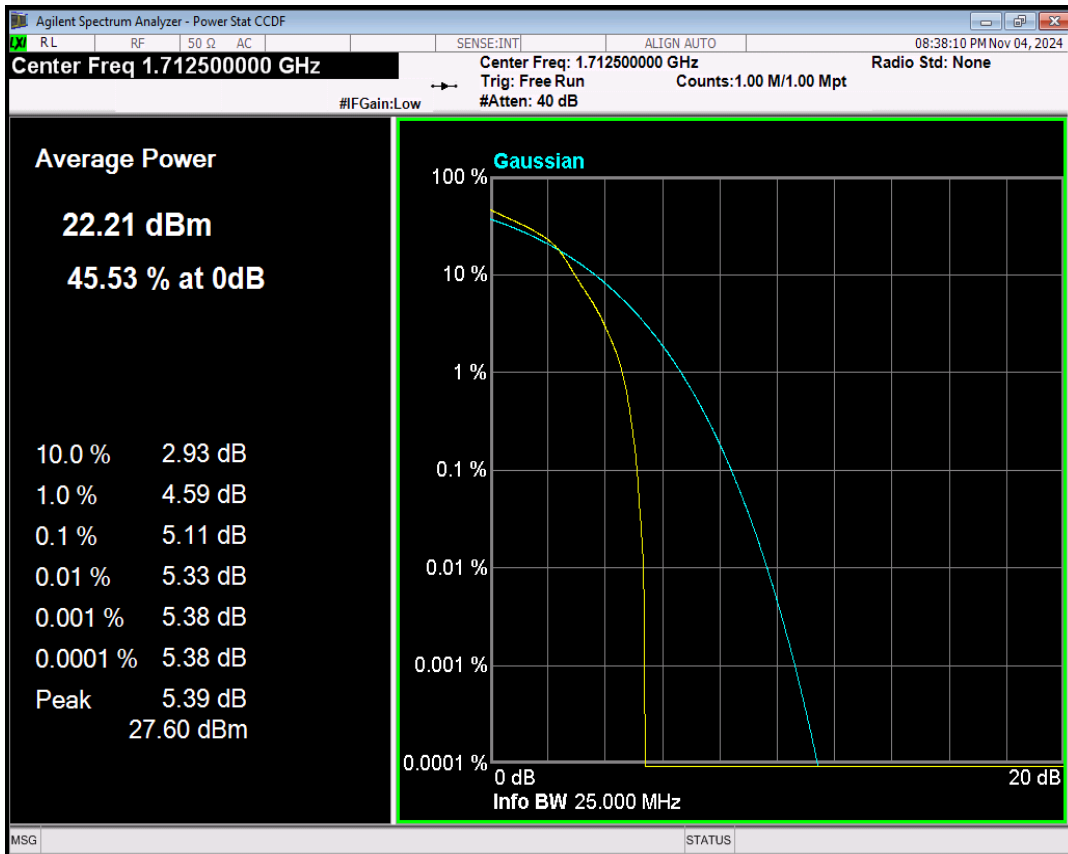
Band4 16QAM BW=3MHz Channel=20385 RB Size=1 Position=#0



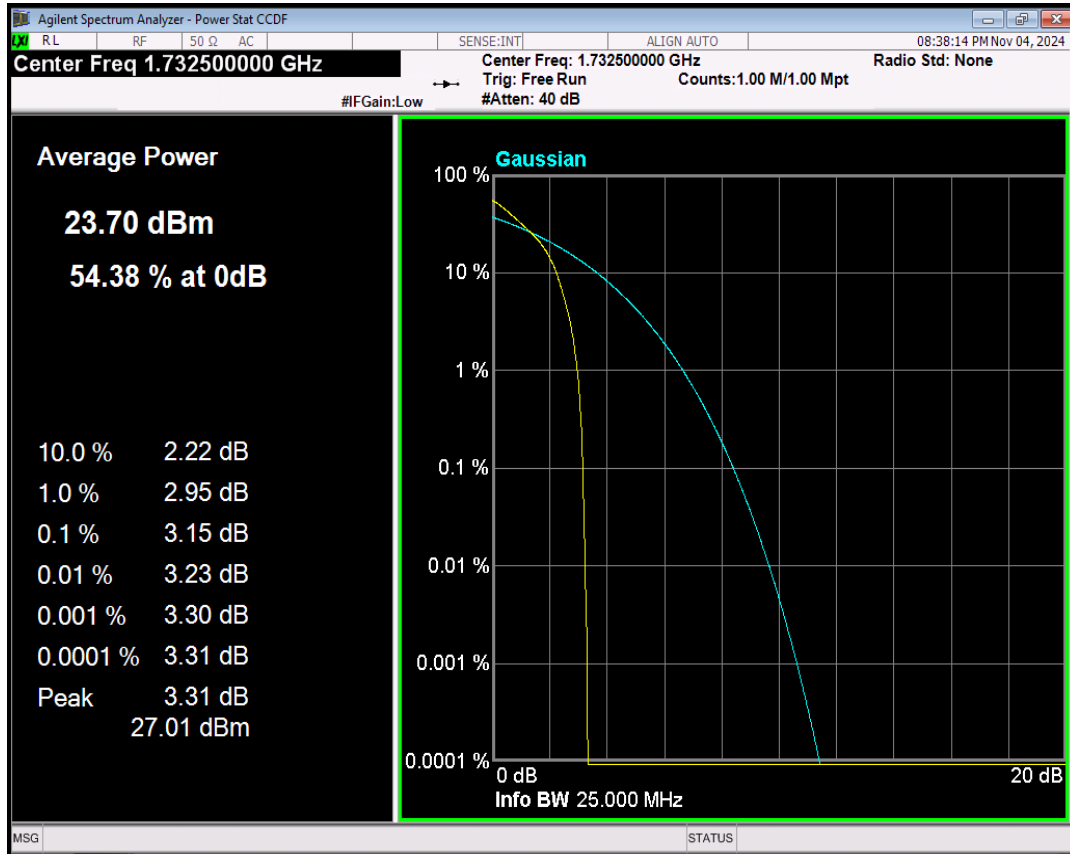
Band4 QPSK BW=5MHz Channel=19975 RB Size=1 Position=#0



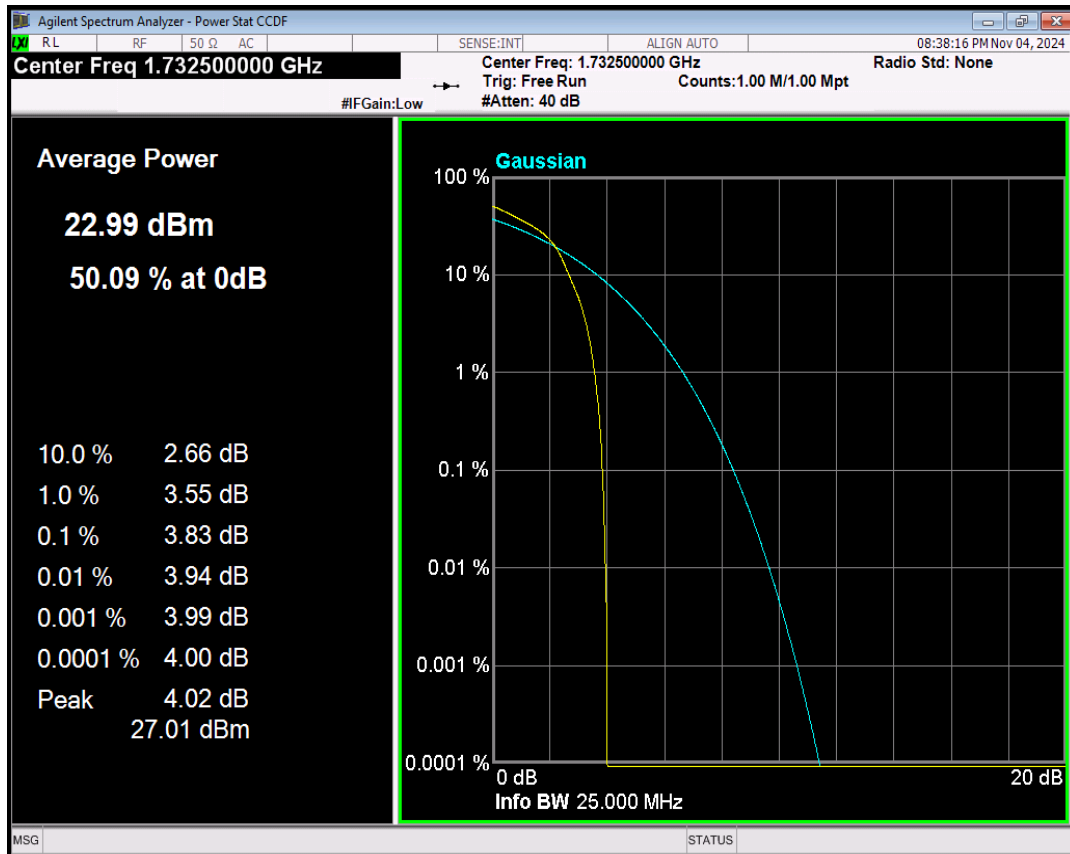
Band4 16QAM BW=5MHz Channel=19975 RB Size=1 Position=#0



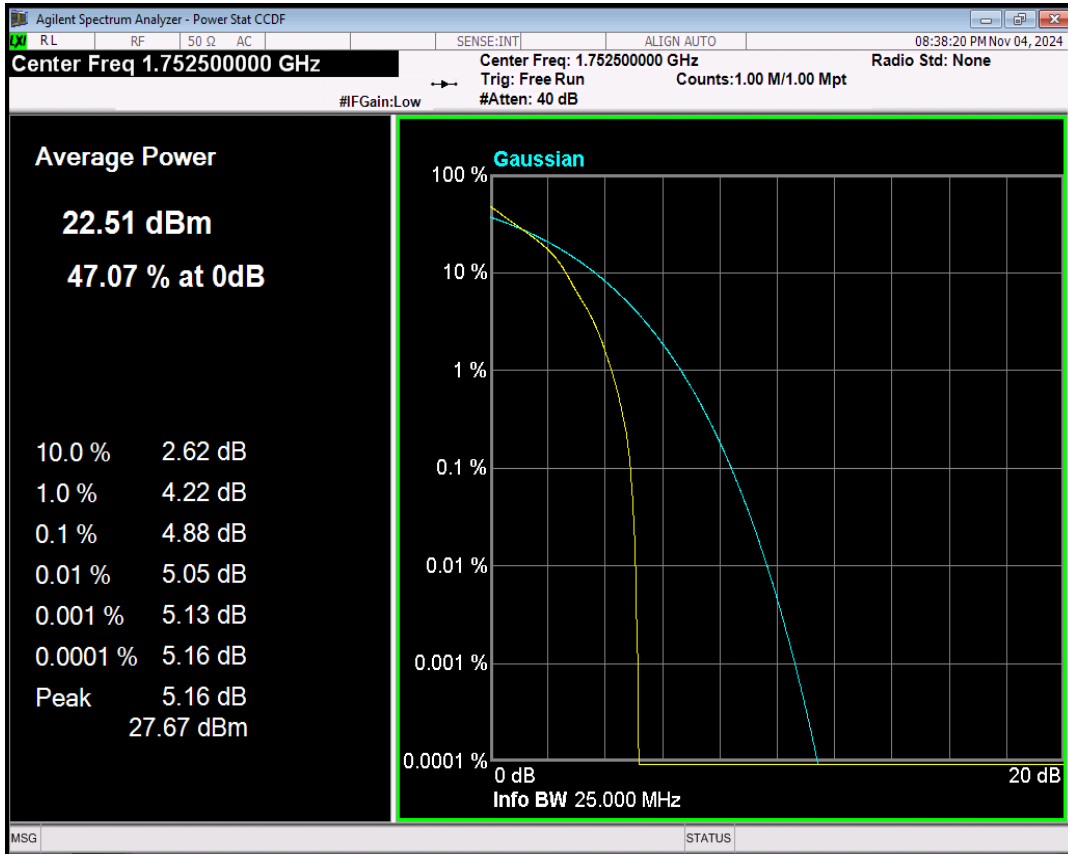
Band4 QPSK BW=5MHz Channel=20175 RB Size=1 Position=#0



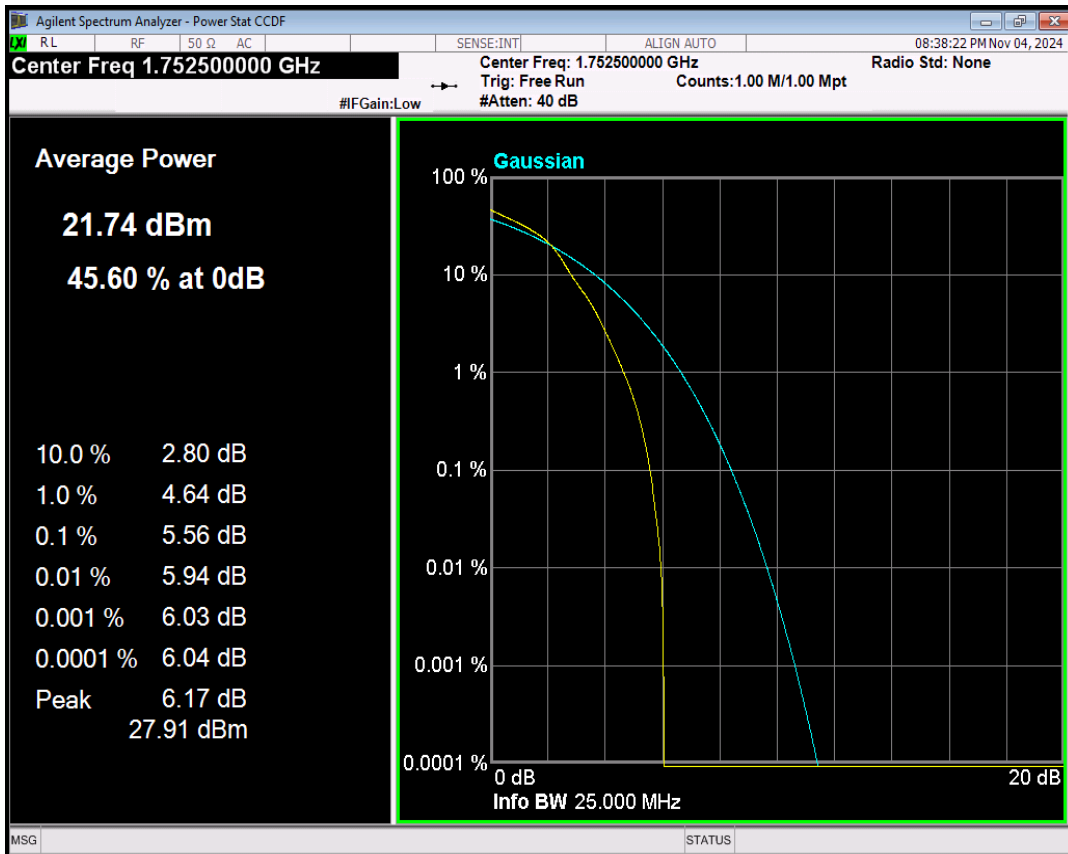
Band4 16QAM BW=5MHz Channel=20175 RB Size=1 Position=#0



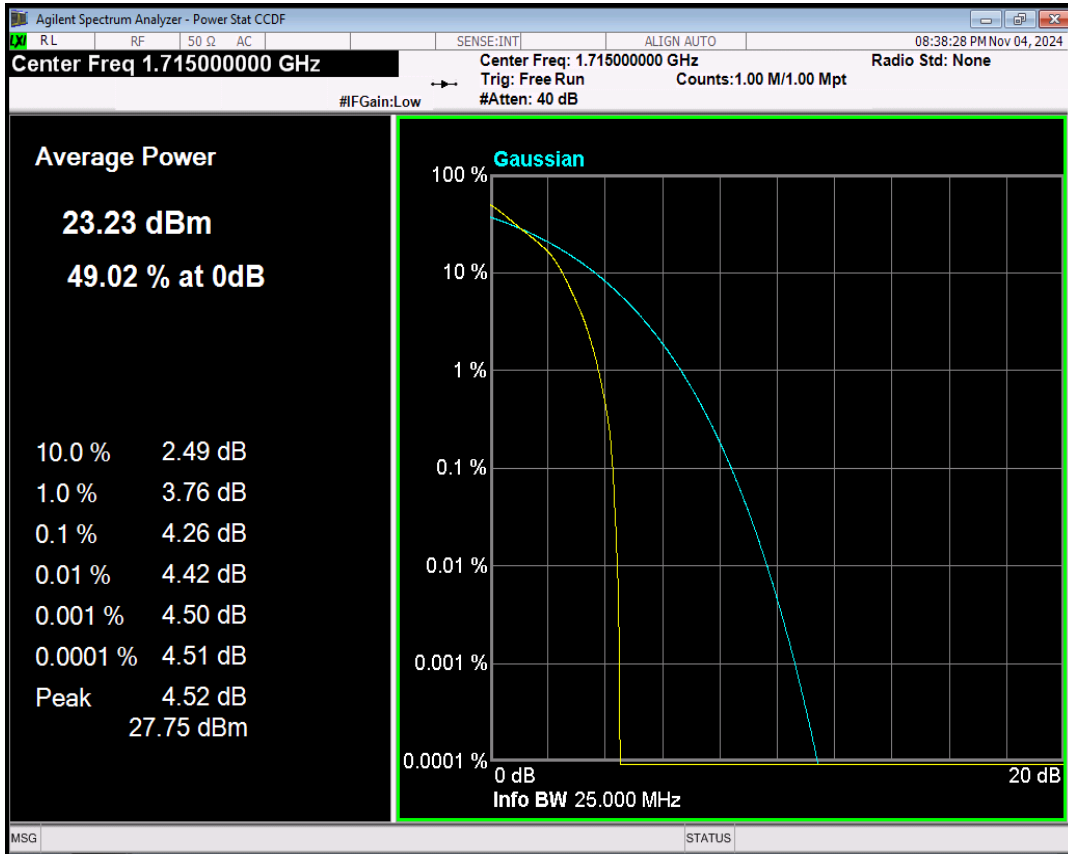
Band4 QPSK BW=5MHz Channel=20375 RB Size=1 Position=#0



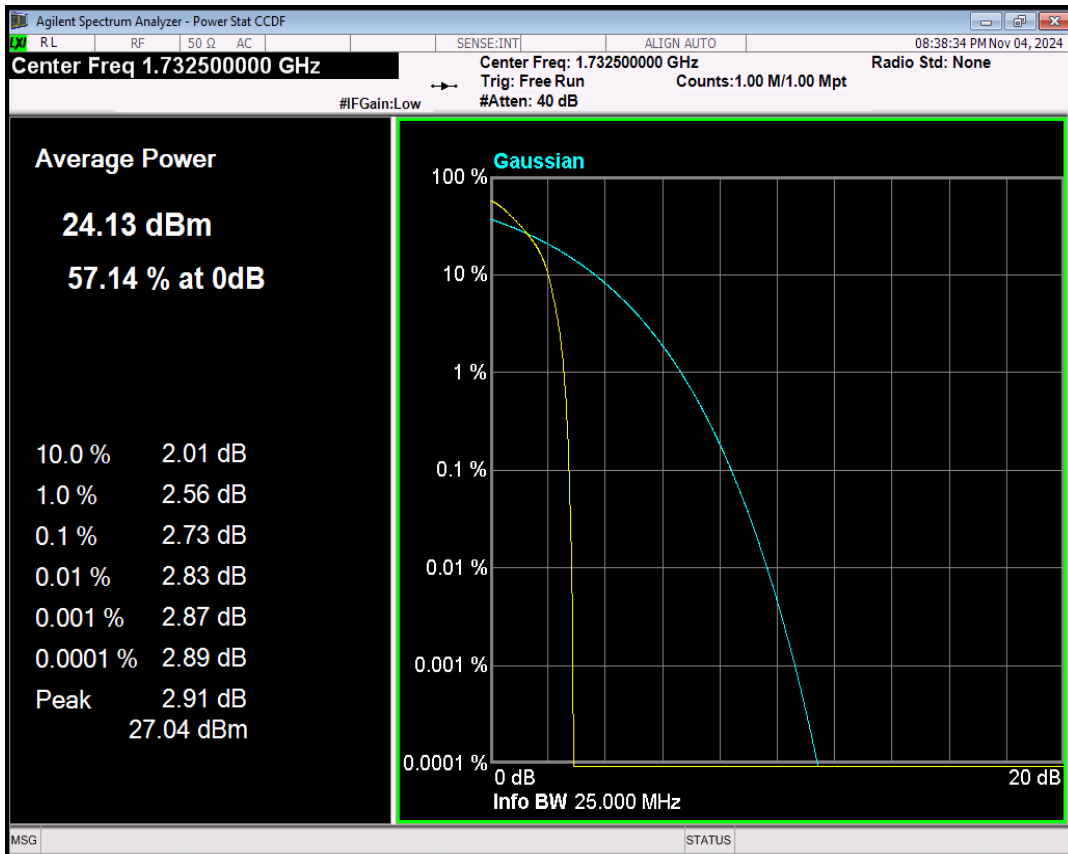
Band4 16QAM BW=5MHz Channel=20375 RB Size=1 Position=#0



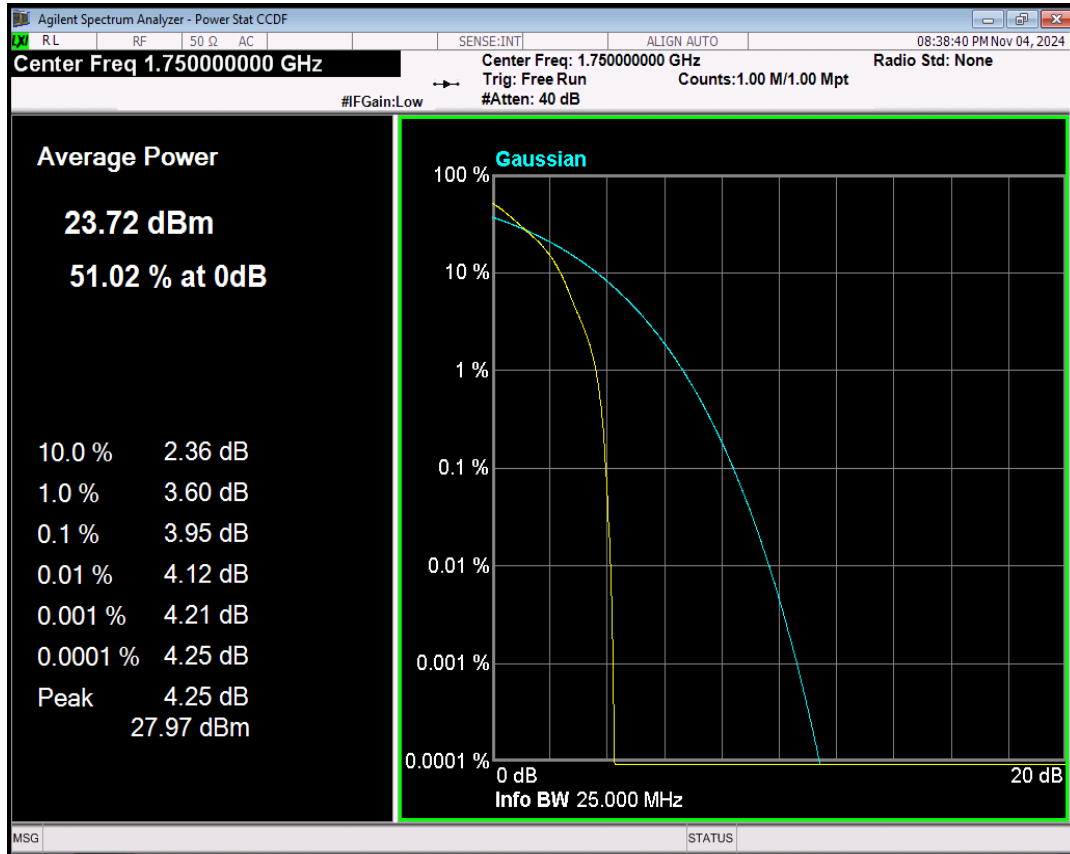
Band4 QPSK BW=10MHz Channel=20000 RB Size=1 Position=#0



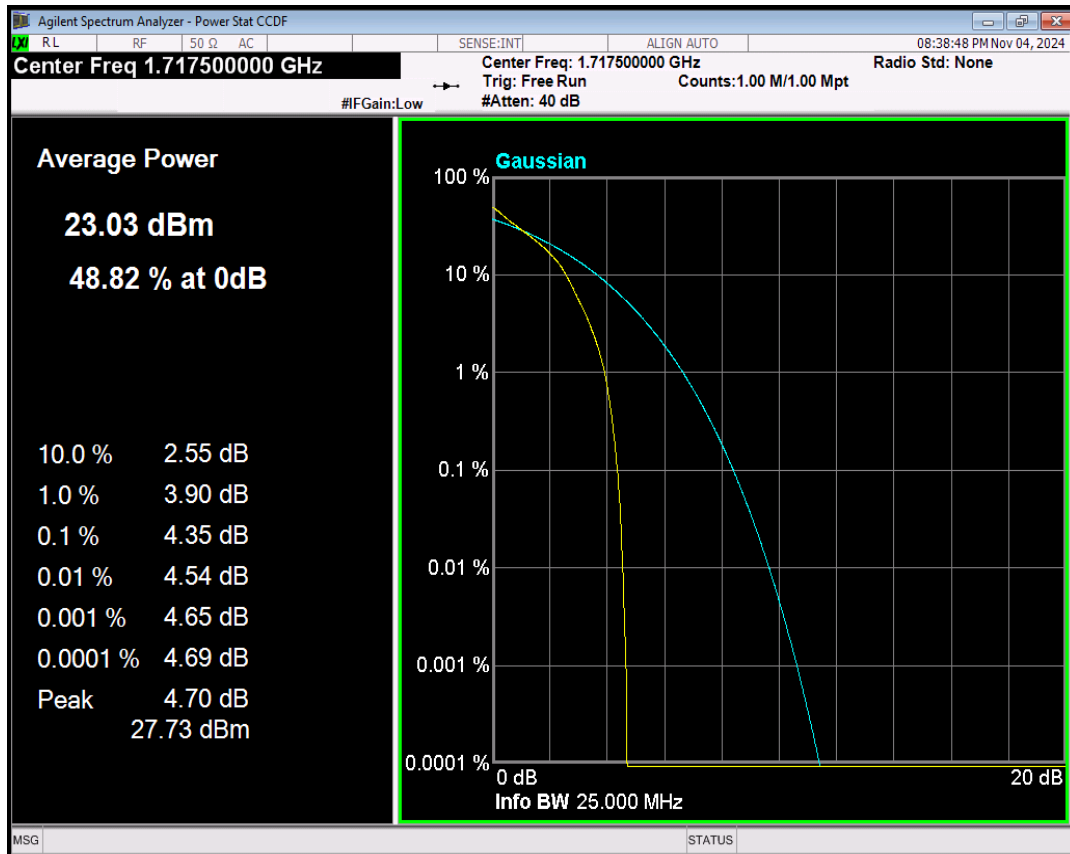
Band4 QPSK BW=10MHz Channel=20175 RB Size=1 Position=#0



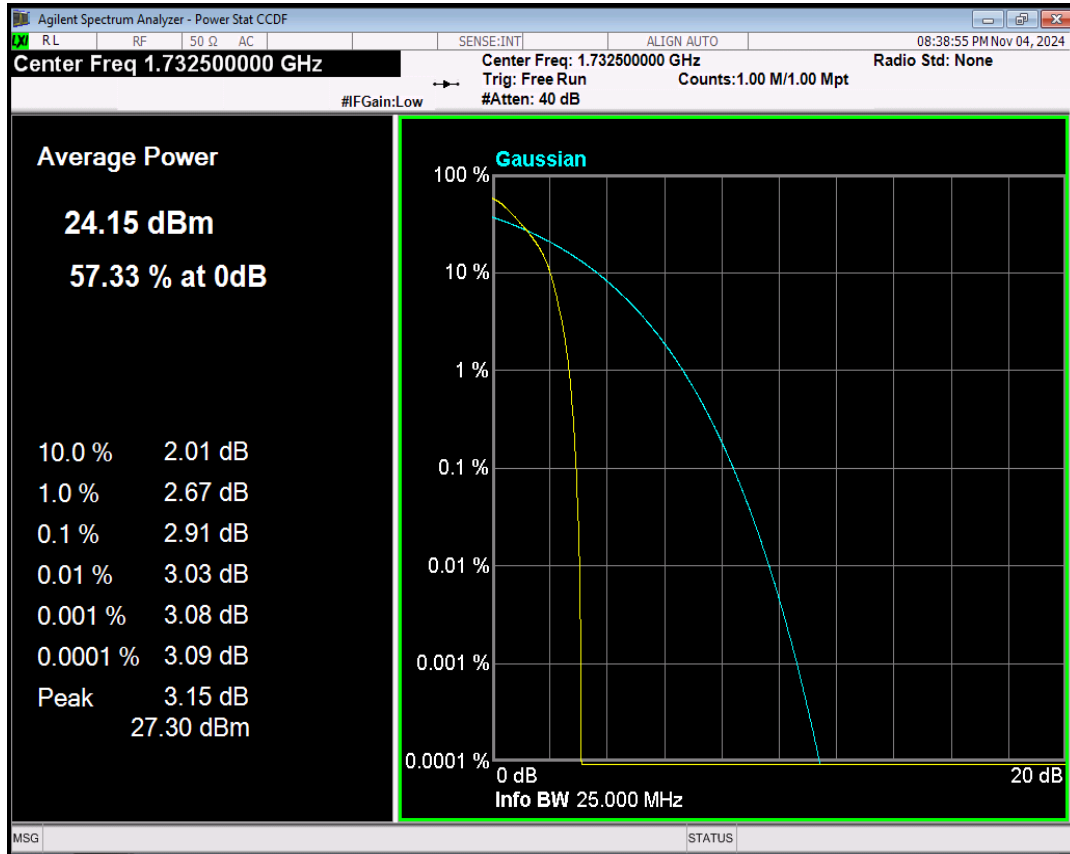
Band4 QPSK BW=10MHz Channel=20350 RB Size=1 Position=#0



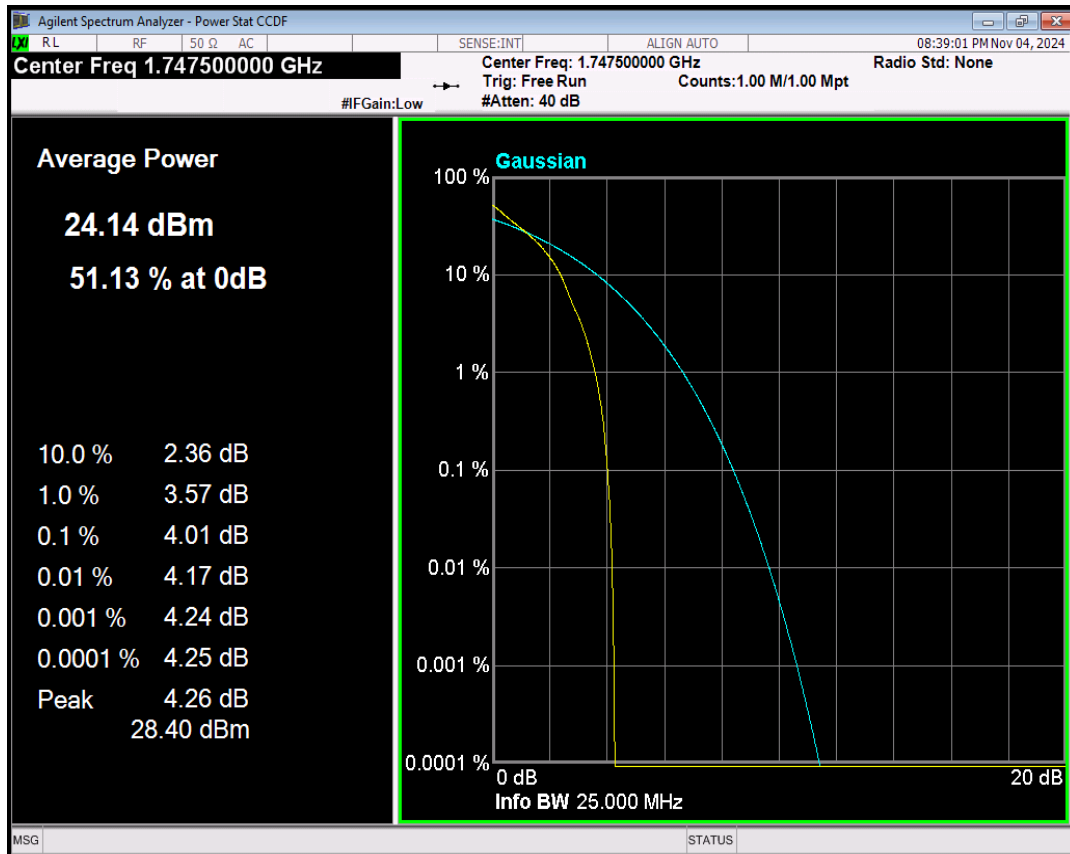
Band4 QPSK BW=15MHz Channel=20025 RB Size=1 Position=#0



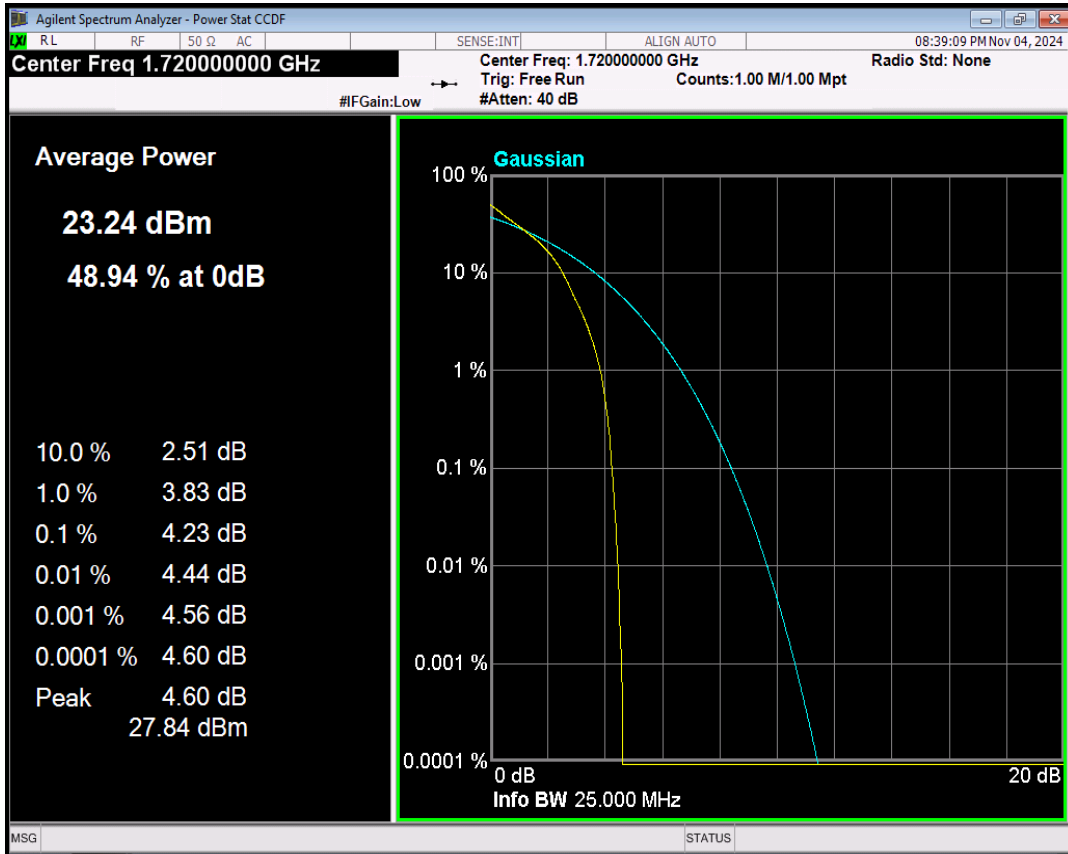
Band4 QPSK BW=15MHz Channel=20175 RB Size=1 Position=#0



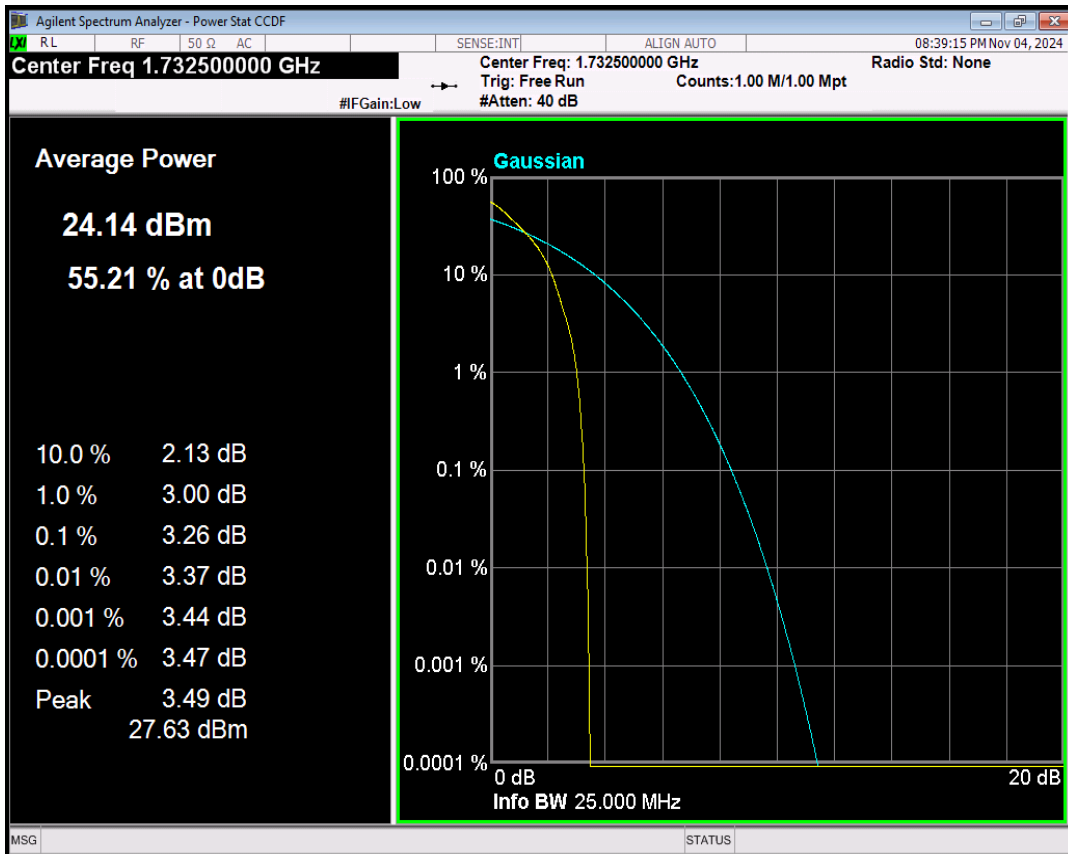
Band4 QPSK BW=15MHz Channel=20325 RB Size=1 Position=#0



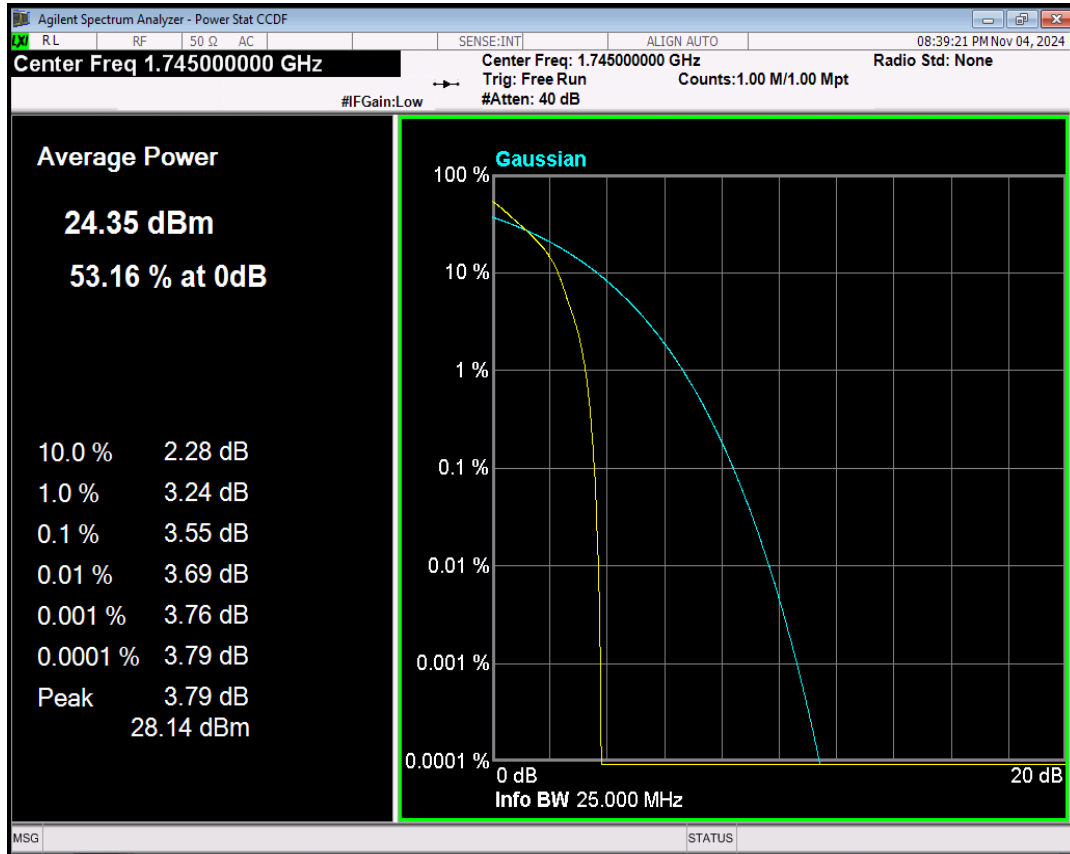
Band4 QPSK BW=20MHz Channel=20050 RB Size=1 Position=#0



Band4 QPSK BW=20MHz Channel=20175 RB Size=1 Position=#0



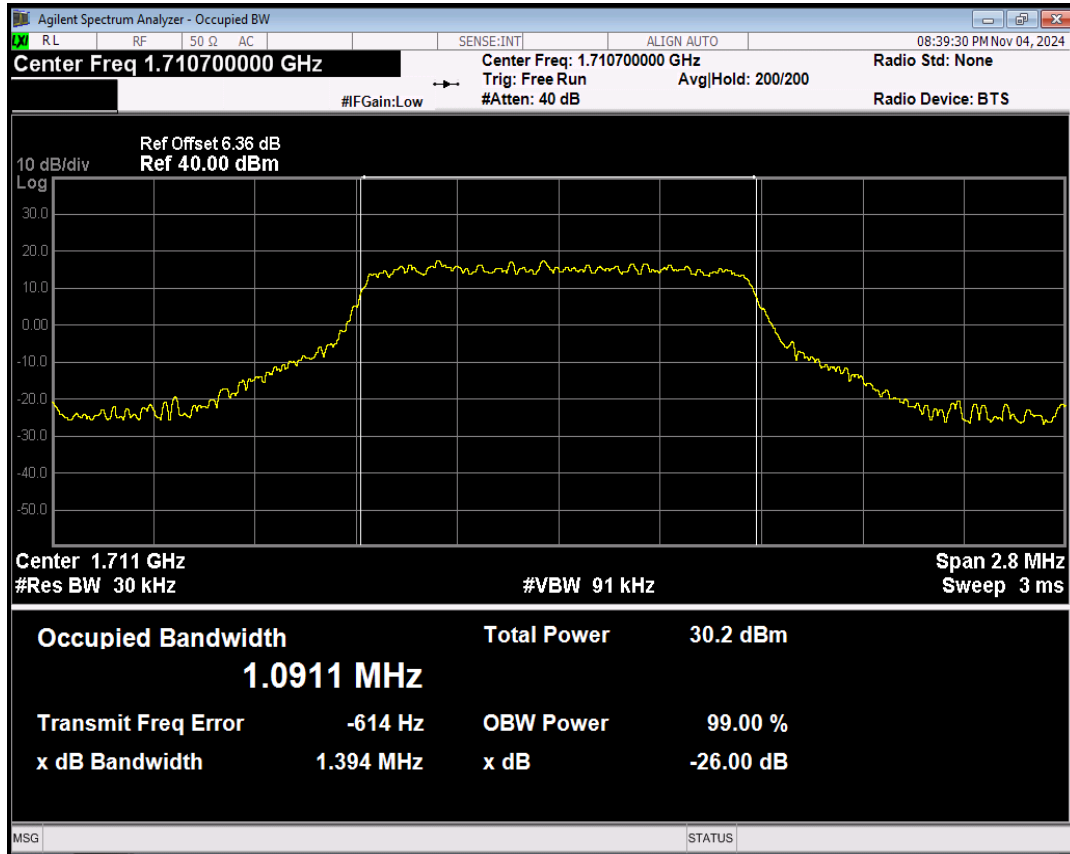
Band4 QPSK BW=20MHz Channel=20300 RB Size=1 Position=#0



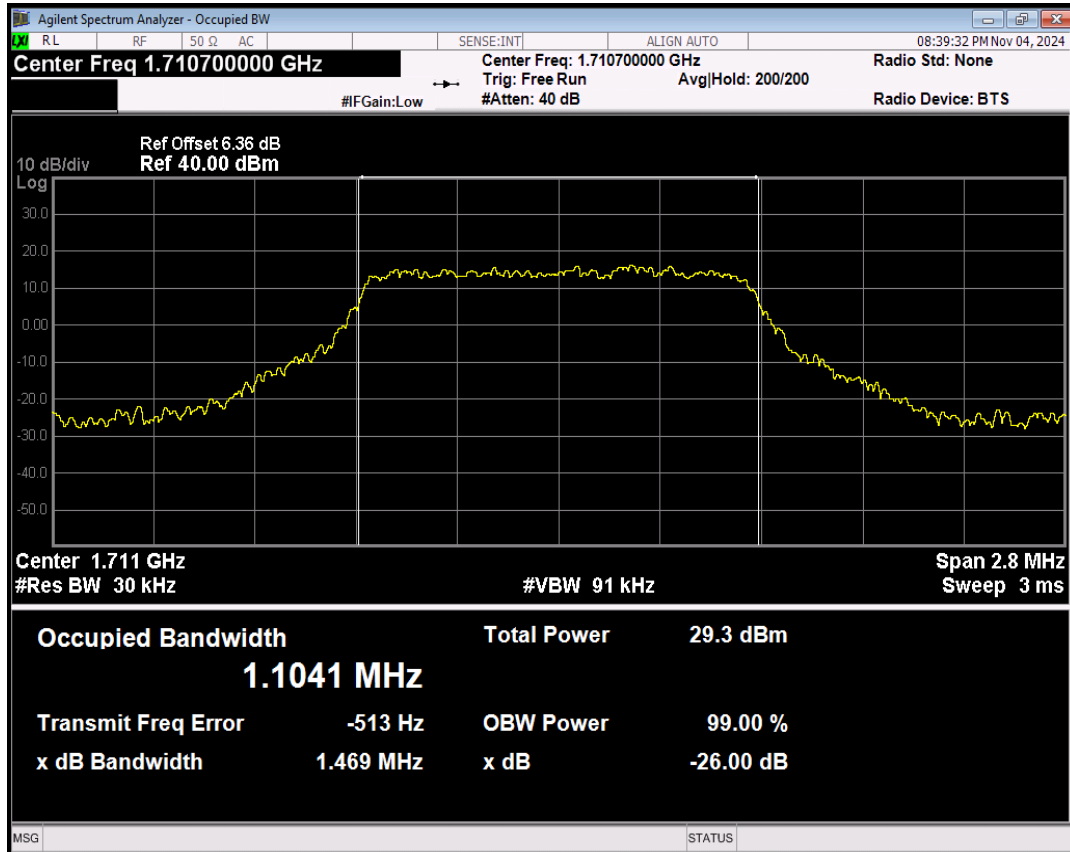
Appendix 4. Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band4	1.4	19957	6	#0	QPSK	1.091	1.394	PASS
Band4	1.4	19957	6	#0	16QAM	1.104	1.469	PASS
Band4	1.4	20175	6	#0	QPSK	1.093	1.437	PASS
Band4	1.4	20175	6	#0	16QAM	1.095	1.414	PASS
Band4	1.4	20393	6	#0	QPSK	1.094	1.438	PASS
Band4	1.4	20393	6	#0	16QAM	1.107	1.461	PASS
Band4	3	19965	15	#0	QPSK	2.695	3.162	PASS
Band4	3	19965	15	#0	16QAM	2.678	3.138	PASS
Band4	3	20175	15	#0	QPSK	2.689	3.225	PASS
Band4	3	20175	15	#0	16QAM	2.689	3.239	PASS
Band4	3	20385	15	#0	QPSK	2.693	3.212	PASS
Band4	3	20385	15	#0	16QAM	2.690	3.231	PASS
Band4	5	19975	25	#0	QPSK	4.515	4.980	PASS
Band4	5	19975	25	#0	16QAM	4.500	5.044	PASS
Band4	5	20175	25	#0	QPSK	4.499	5.073	PASS
Band4	5	20175	25	#0	16QAM	4.506	5.142	PASS
Band4	5	20375	25	#0	QPSK	4.492	5.087	PASS
Band4	5	20375	25	#0	16QAM	4.501	4.983	PASS
Band4	10	20000	50	#0	QPSK	8.951	9.670	PASS
Band4	10	20175	50	#0	QPSK	8.932	9.649	PASS
Band4	10	20350	50	#0	QPSK	8.955	9.642	PASS
Band4	15	20025	75	#0	QPSK	13.550	16.805	PASS
Band4	15	20175	75	#0	QPSK	13.500	16.423	PASS
Band4	15	20325	75	#0	QPSK	13.463	16.064	PASS
Band4	20	20050	100	#0	QPSK	17.984	20.729	PASS
Band4	20	20175	100	#0	QPSK	18.035	20.732	PASS
Band4	20	20300	100	#0	QPSK	17.999	20.997	PASS

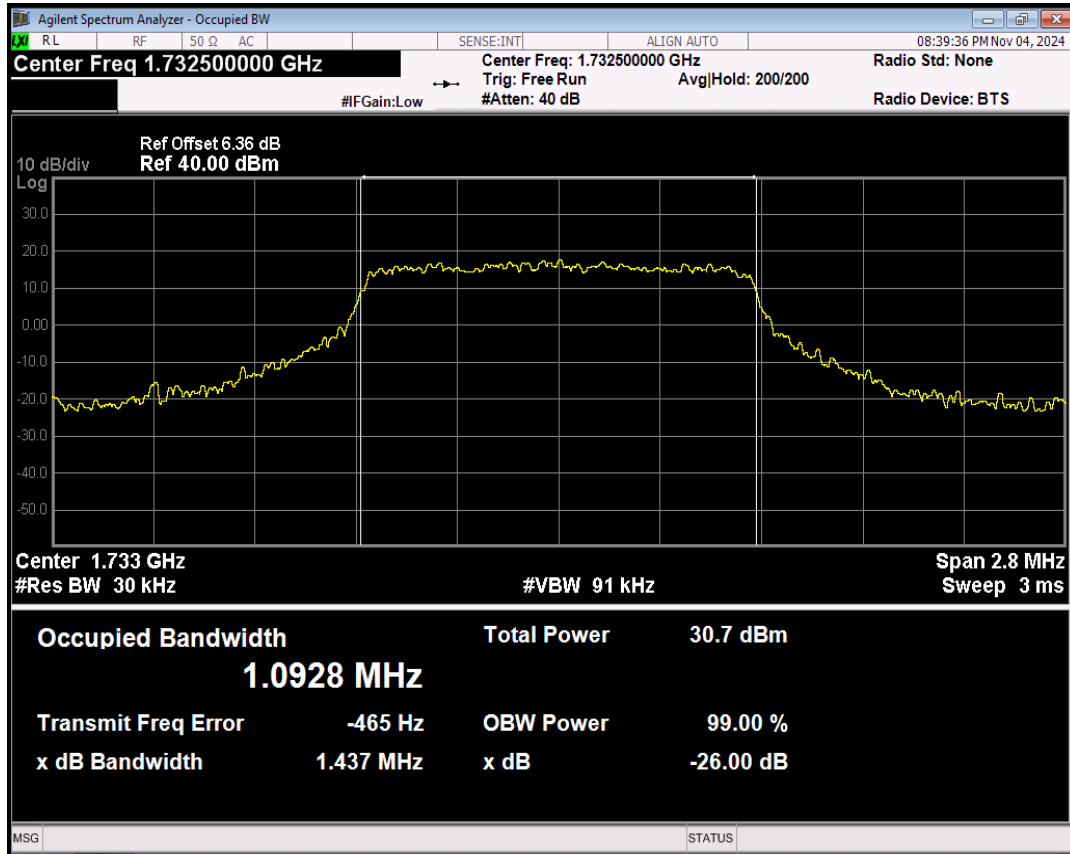
Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0



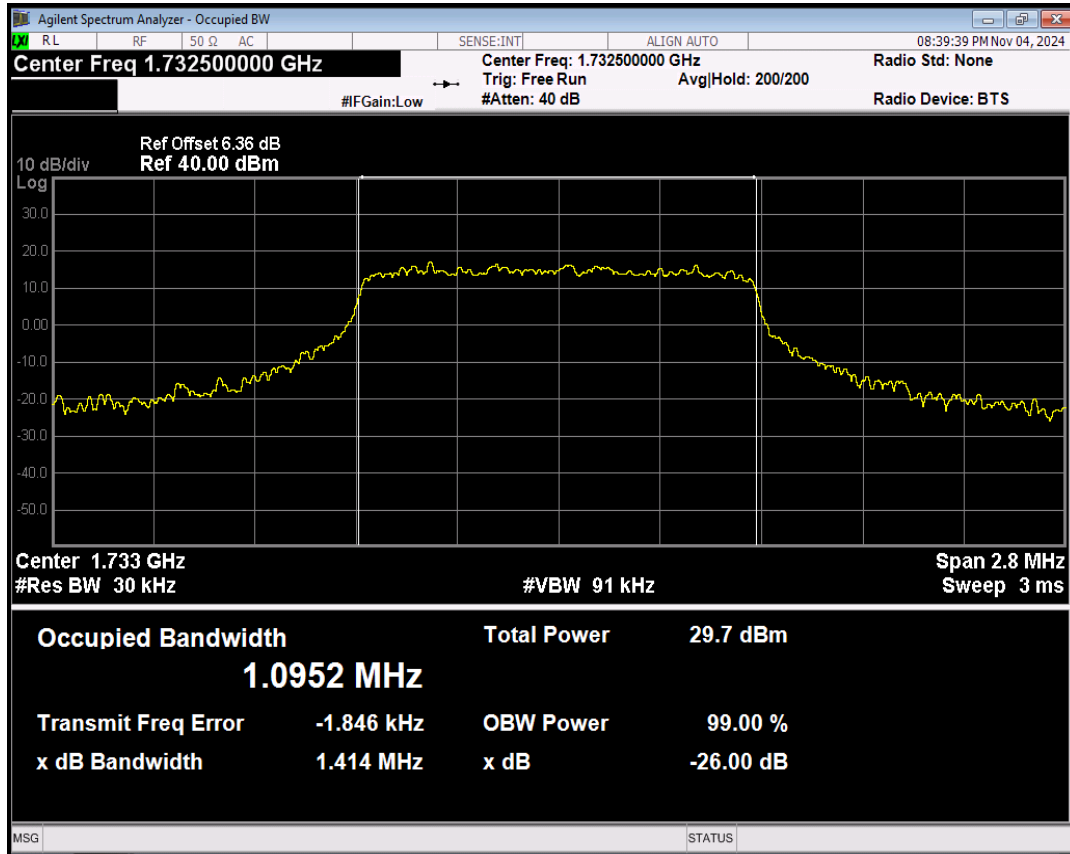
Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0



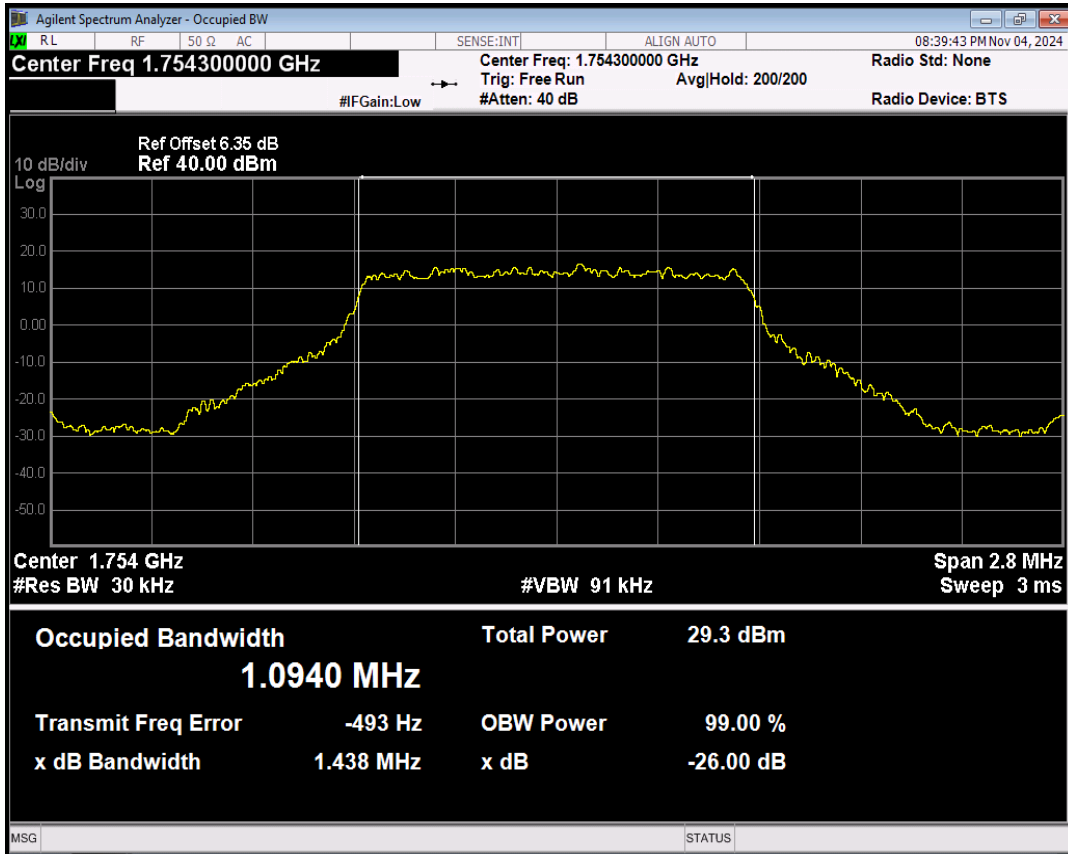
Band4 QPSK BW=1.4MHz Channel=20175 RB Size=6 Position=#0



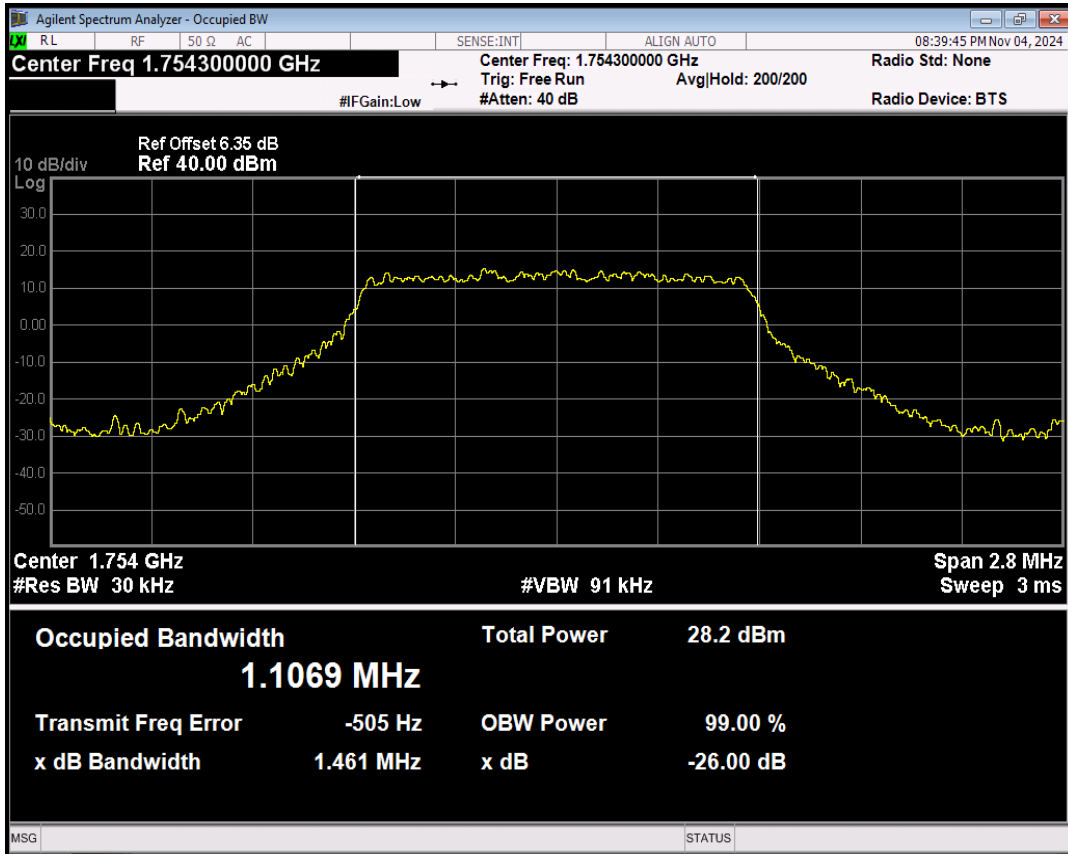
Band4 16QAM BW=1.4MHz Channel=20175 RB Size=6 Position=#0



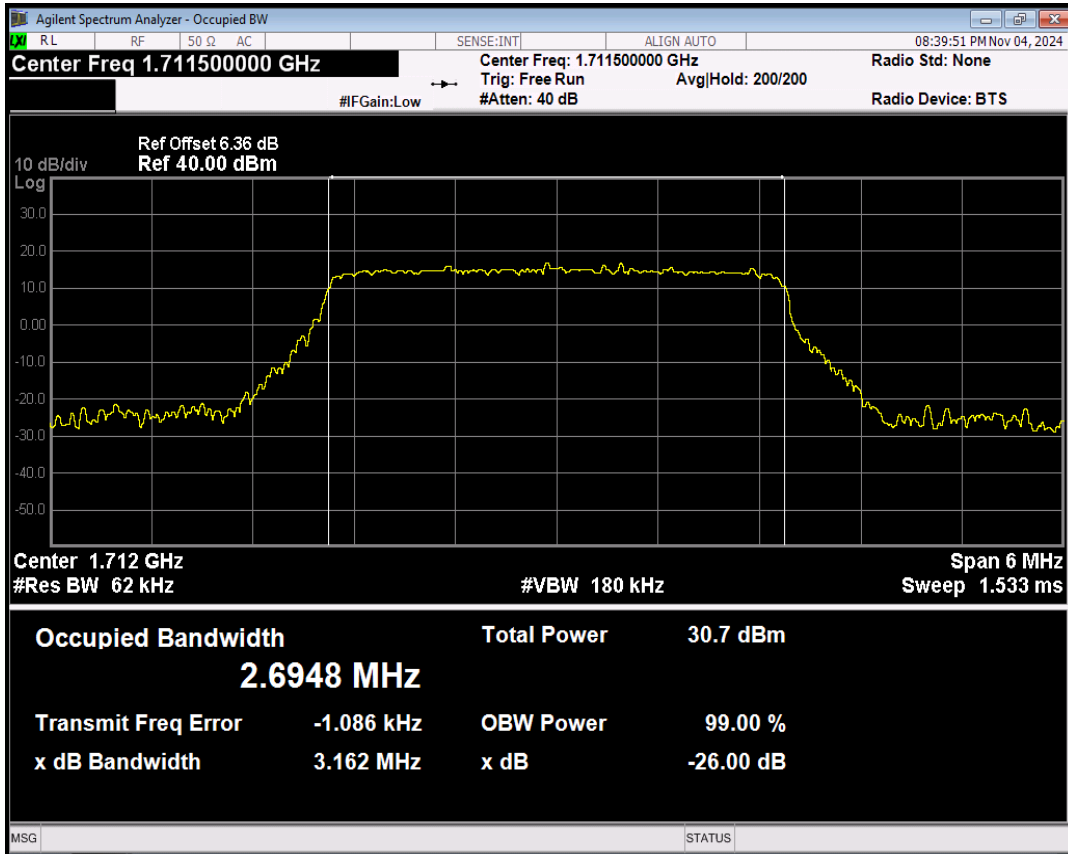
Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0



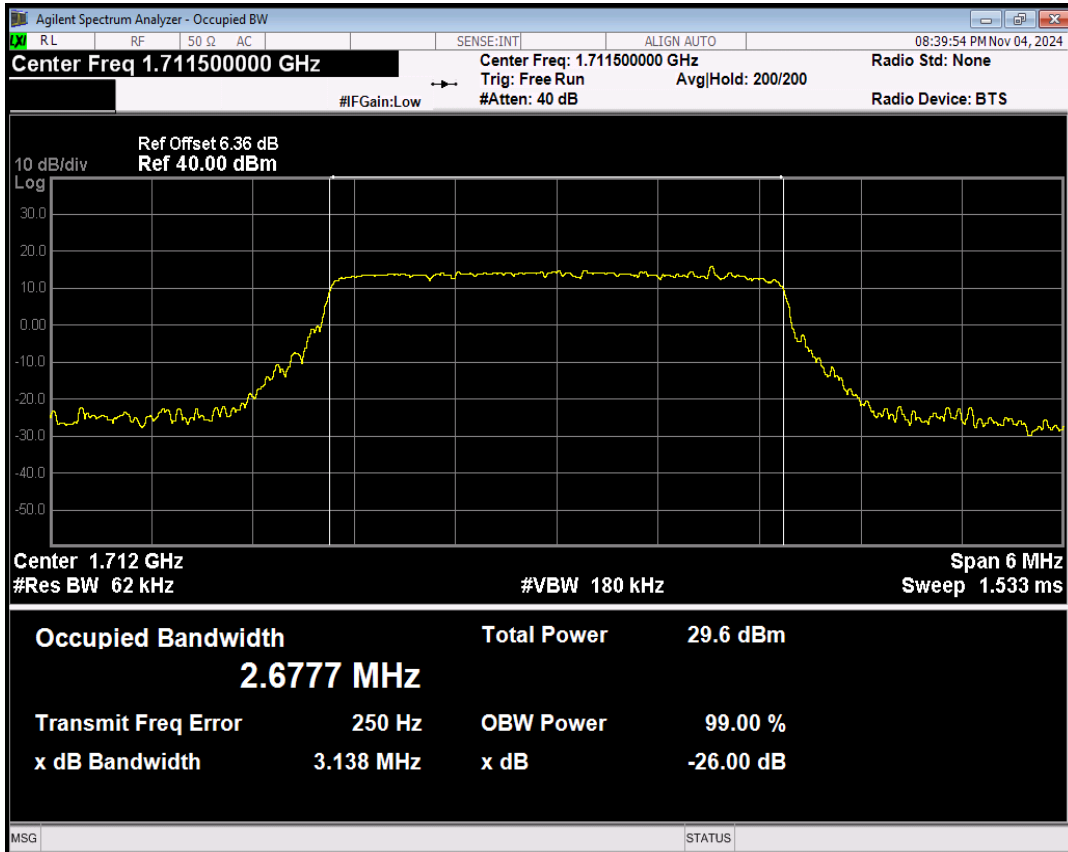
Band4 16QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0



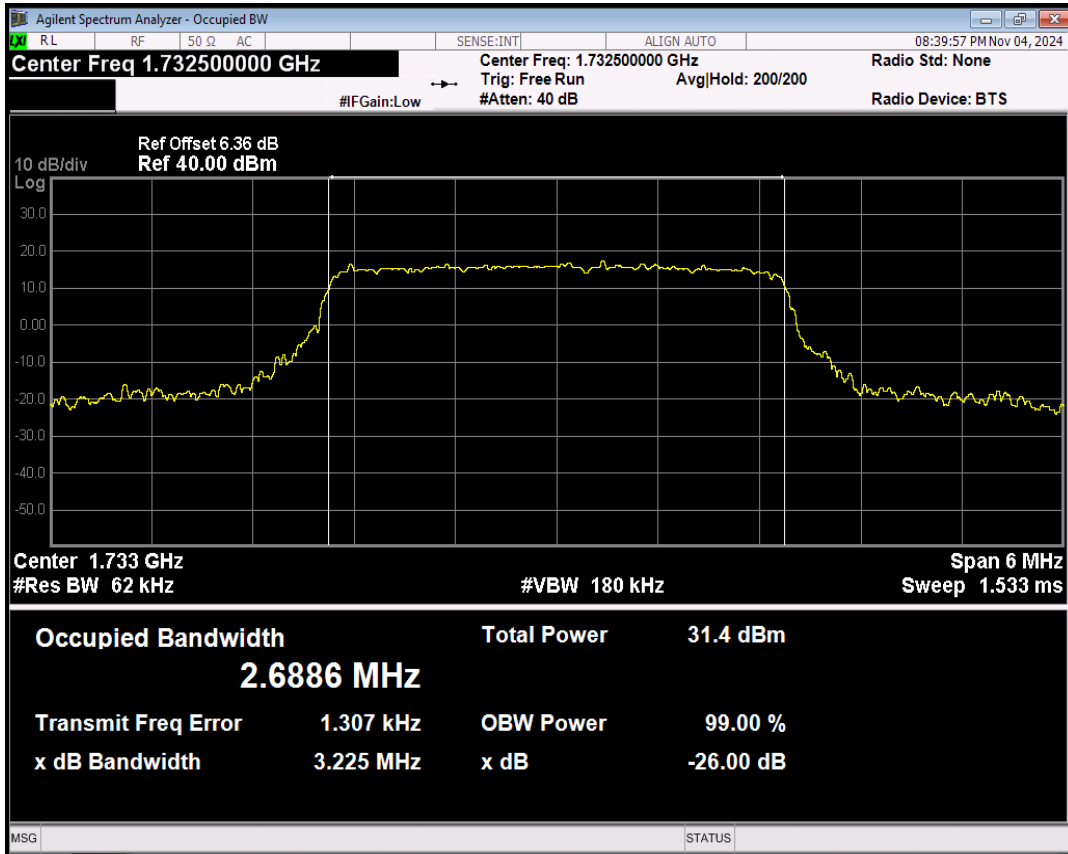
Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



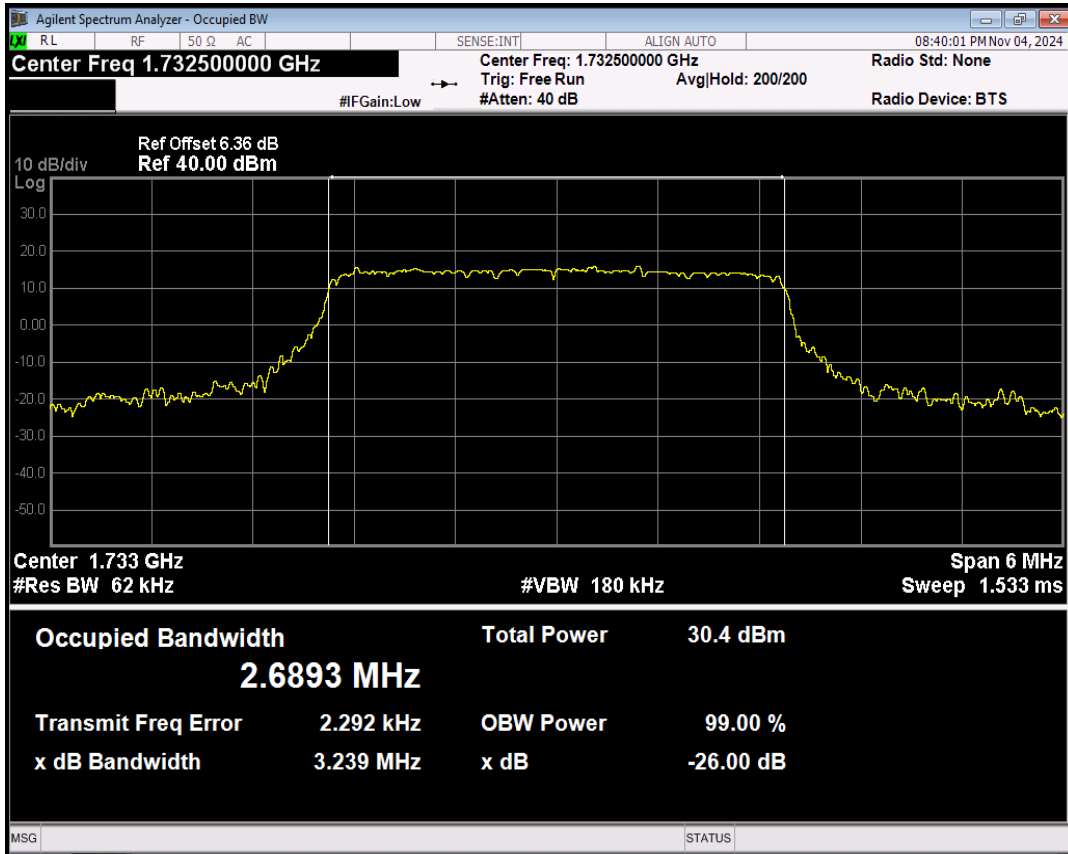
Band4 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0



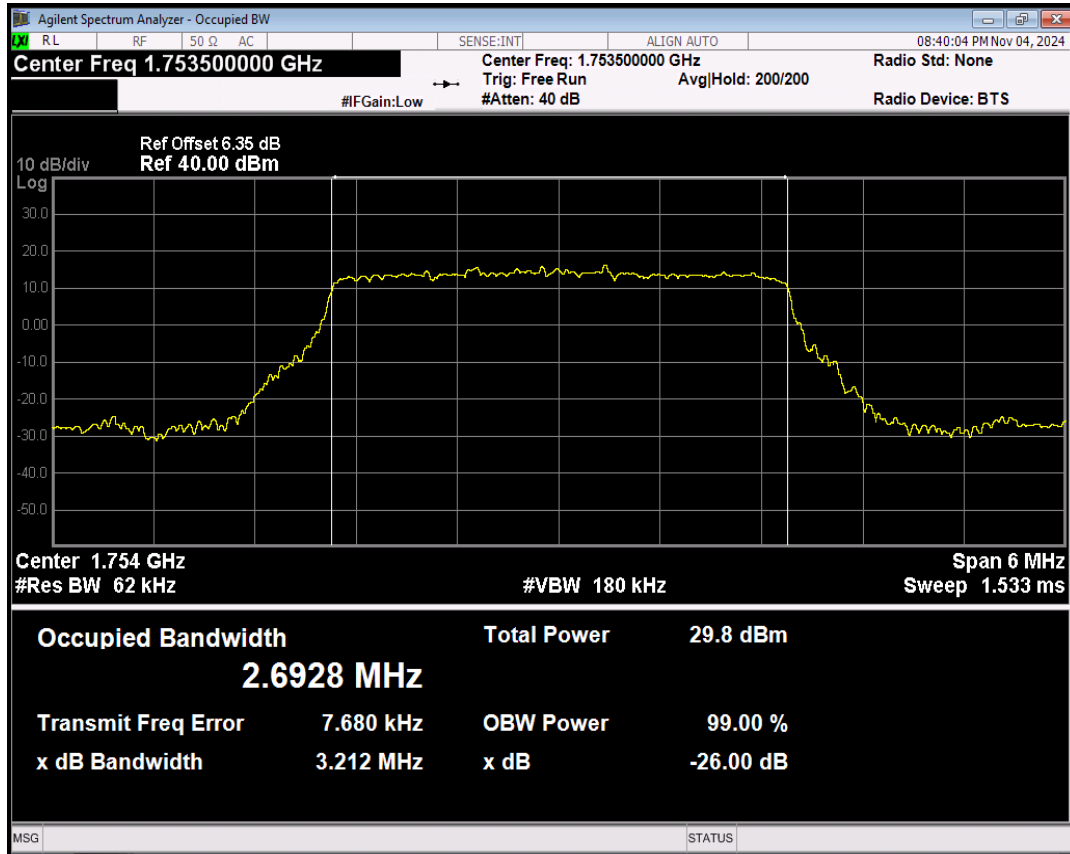
Band4 QPSK BW=3MHz Channel=20175 RB Size=15 Position=#0



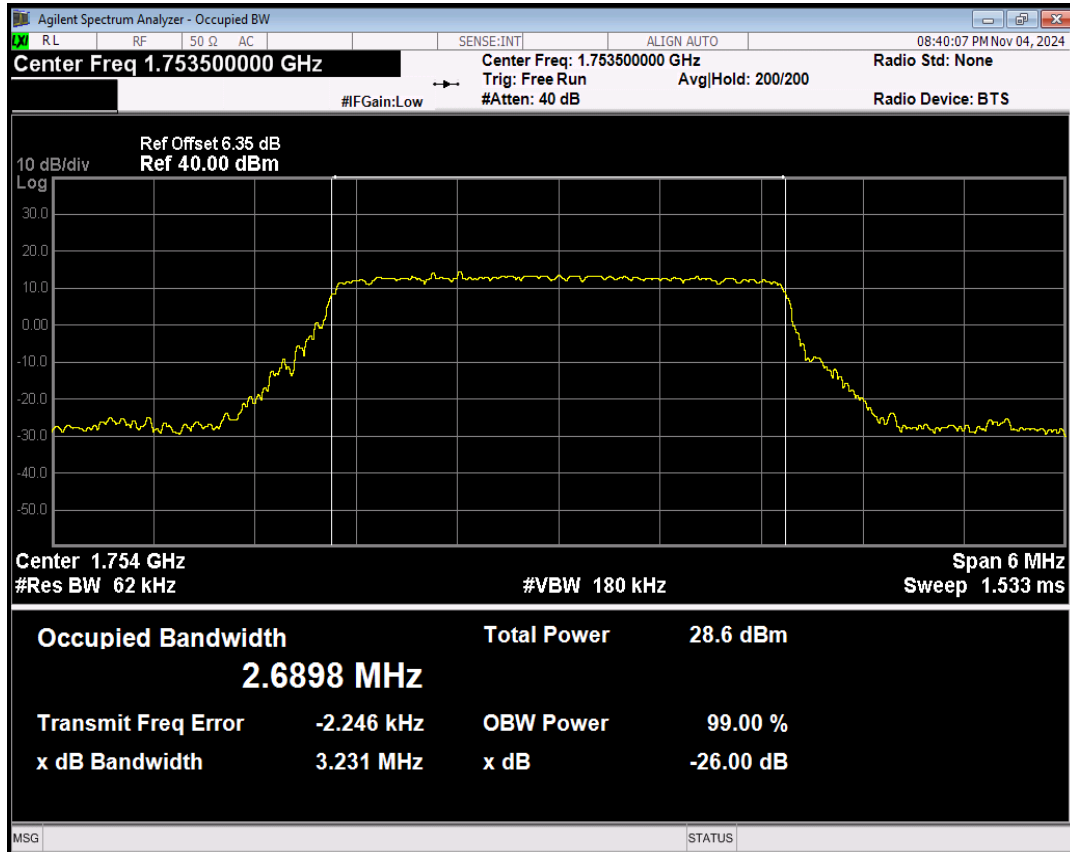
Band4 16QAM BW=3MHz Channel=20175 RB Size=15 Position=#0



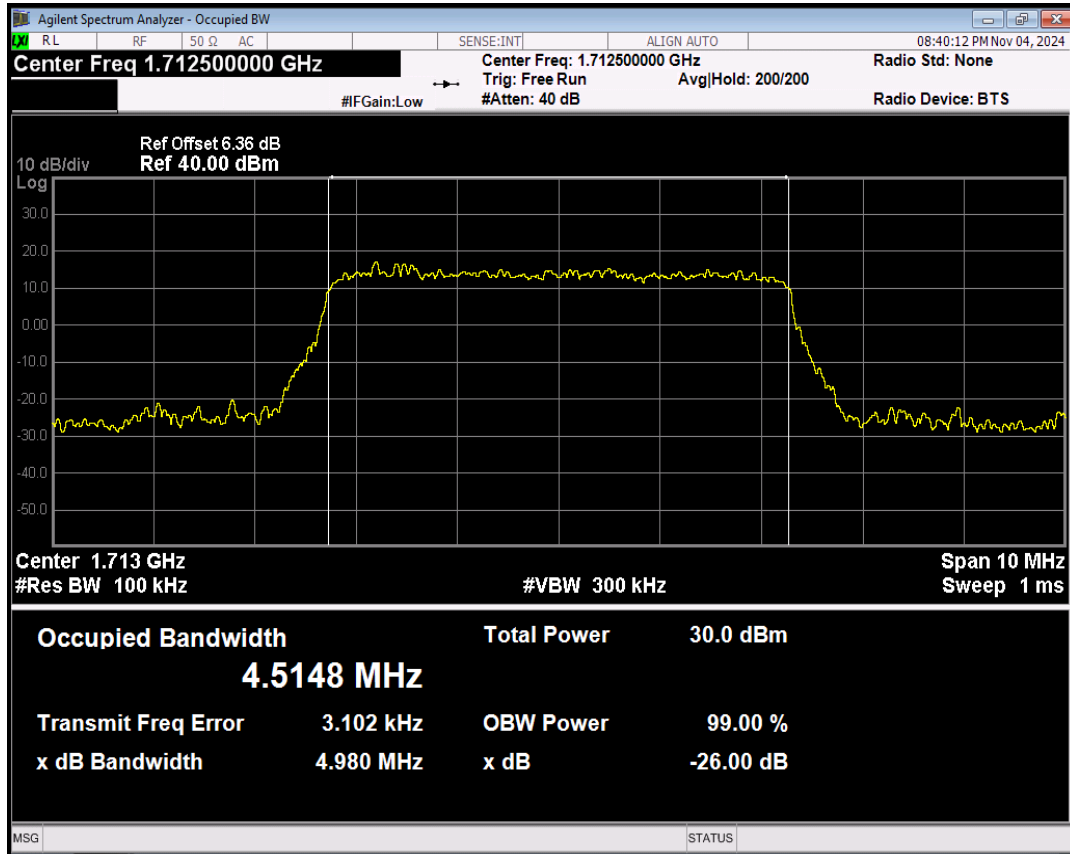
Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0



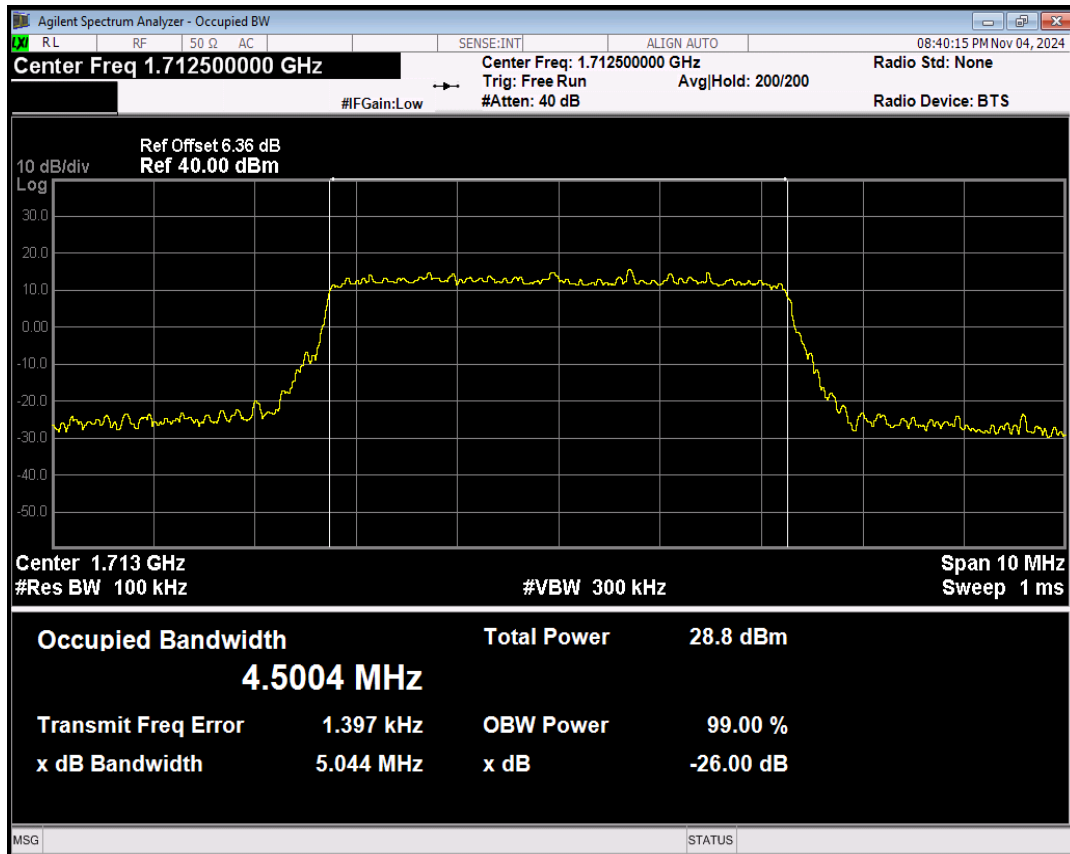
Band4 16QAM BW=3MHz Channel=20385 RB Size=15 Position=#0



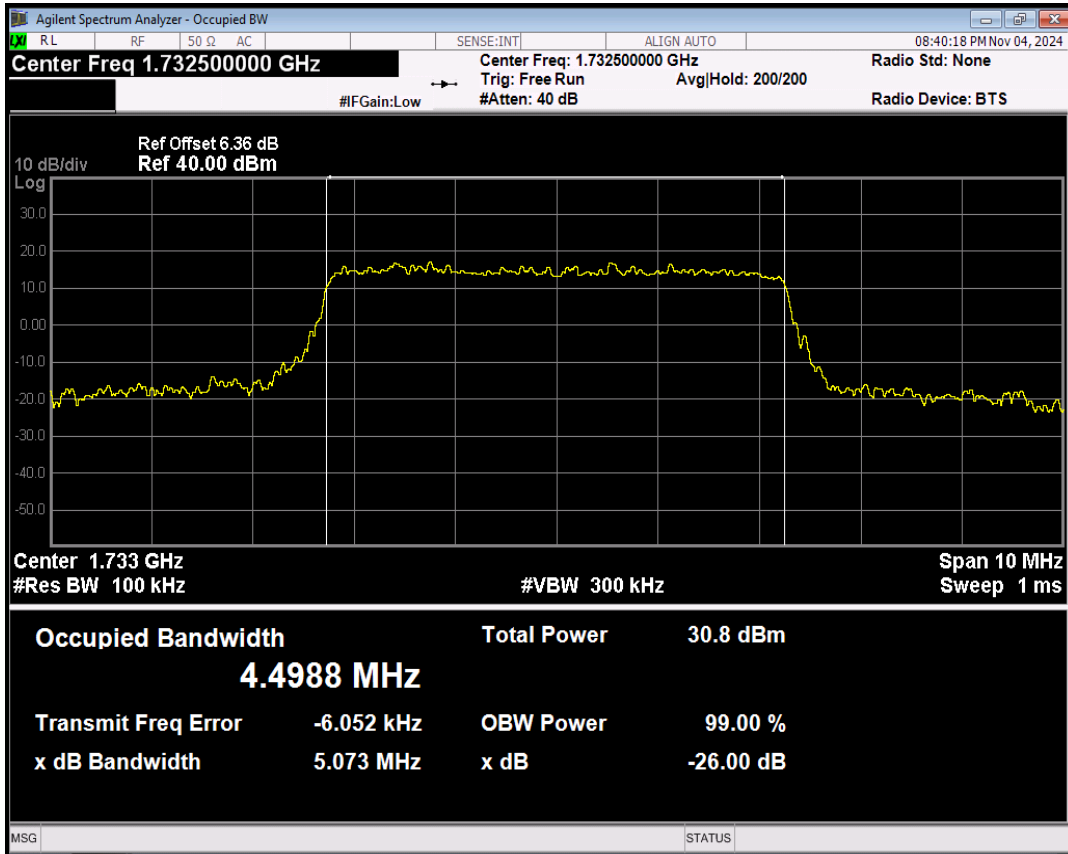
Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0



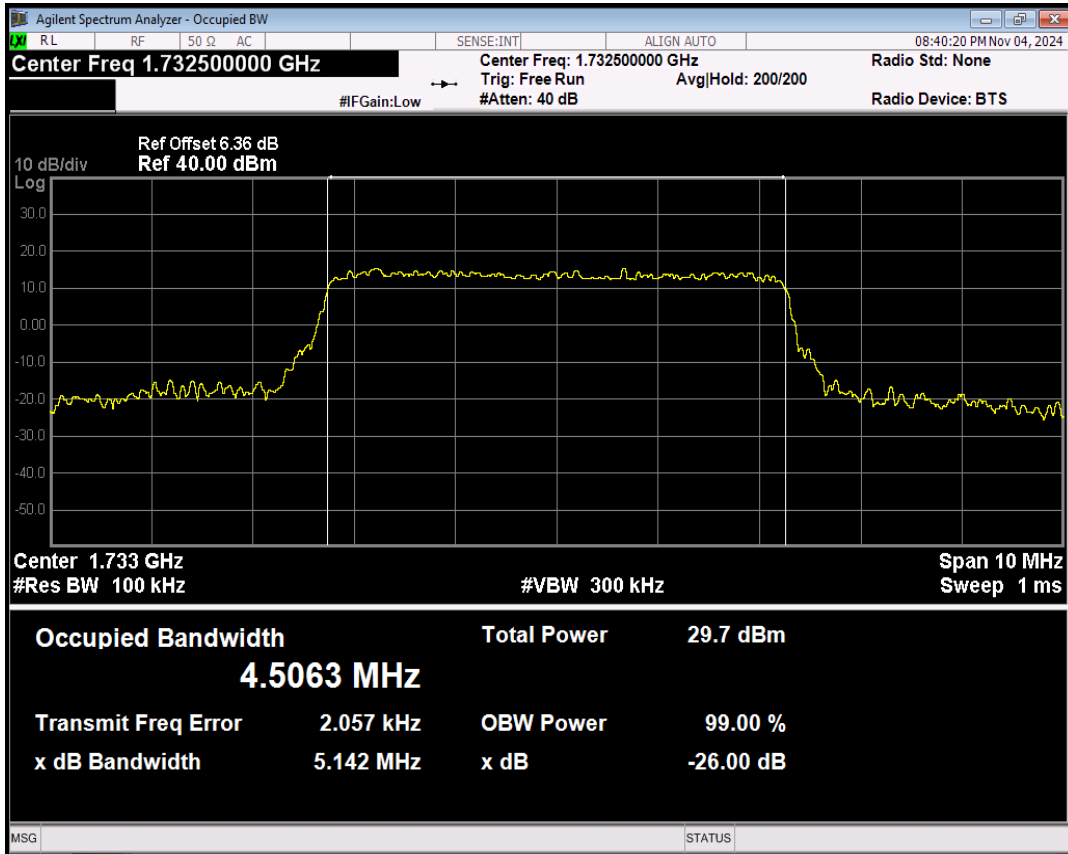
Band4 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0



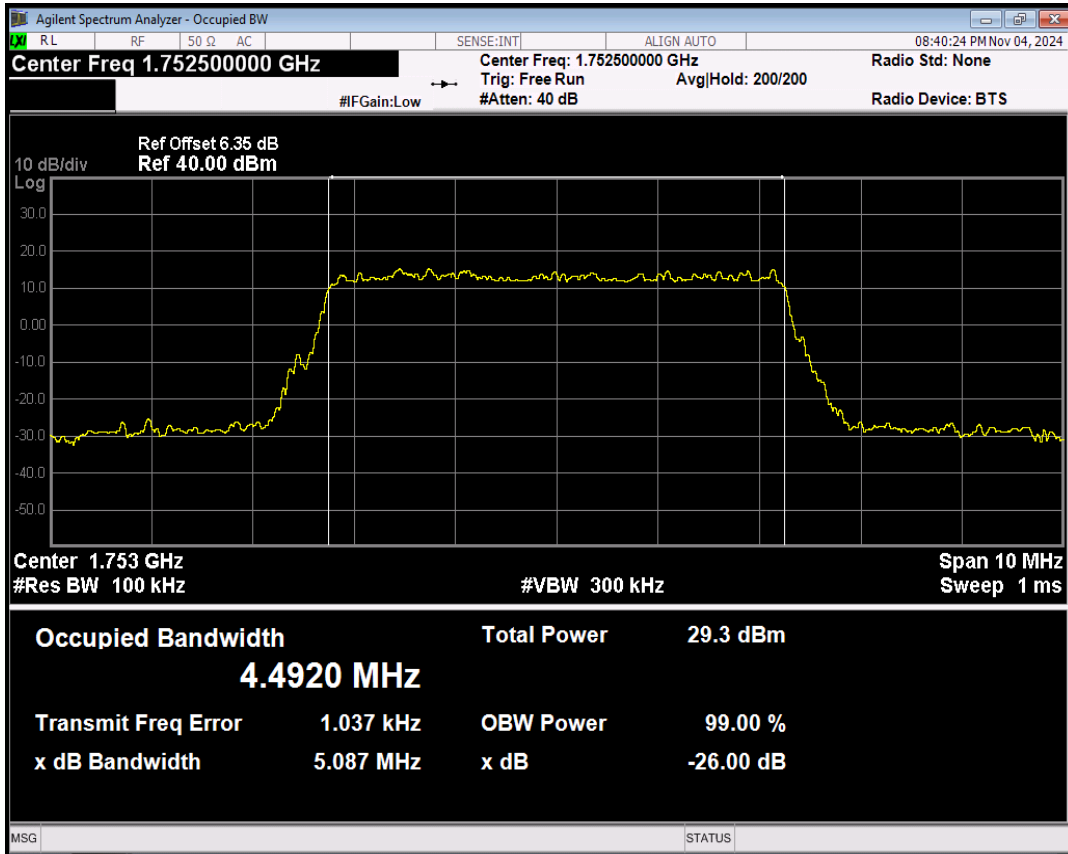
Band4 QPSK BW=5MHz Channel=20175 RB Size=25 Position=#0



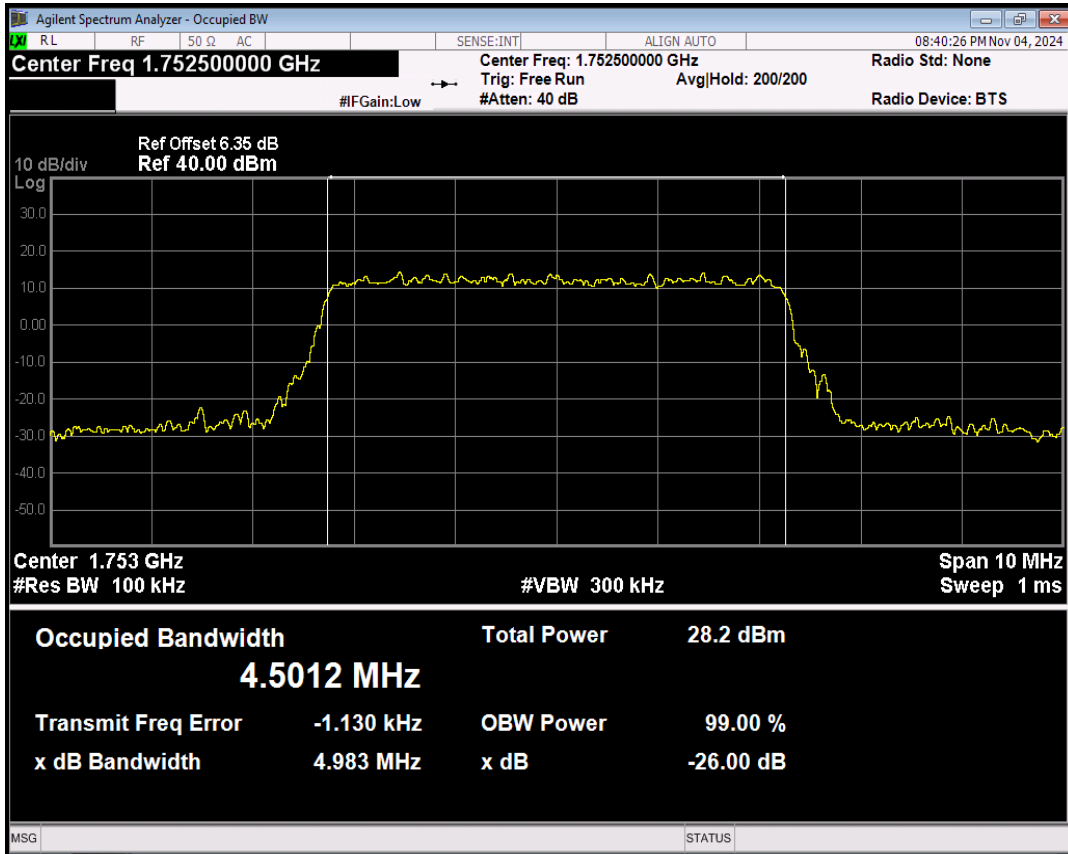
Band4 16QAM BW=5MHz Channel=20175 RB Size=25 Position=#0



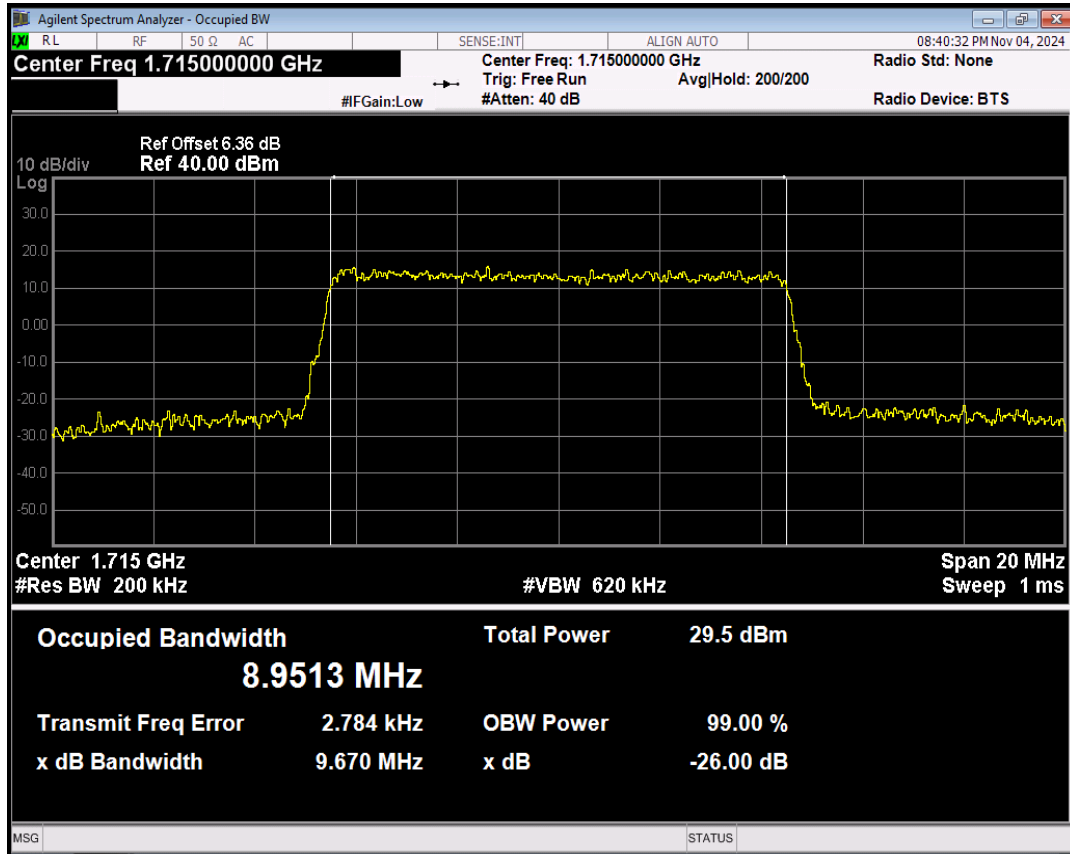
Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0



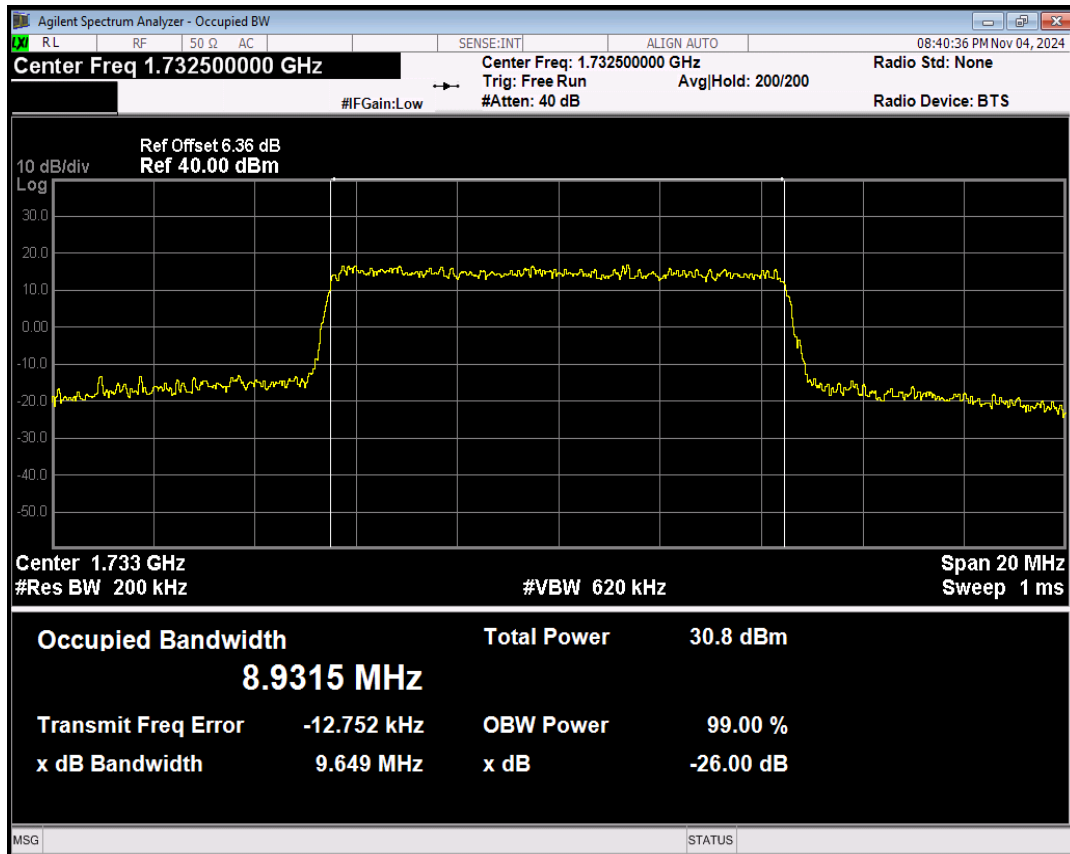
Band4 16QAM BW=5MHz Channel=20375 RB Size=25 Position=#0



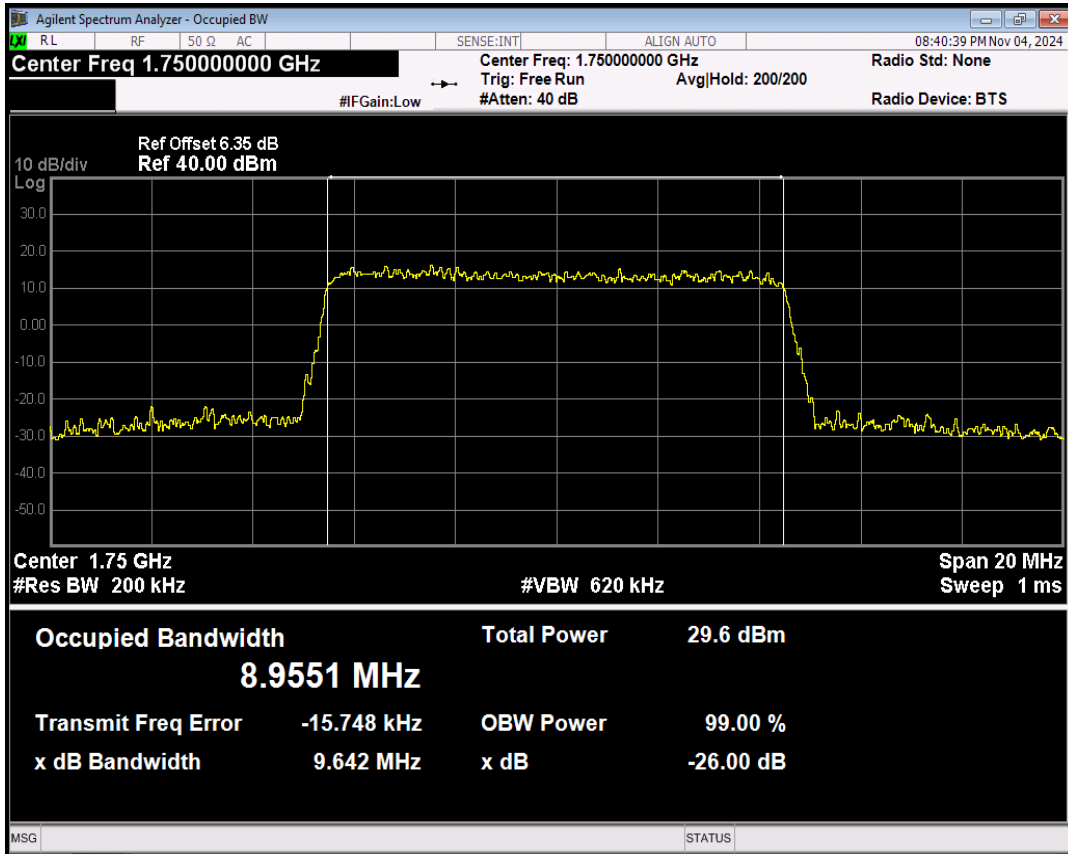
Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



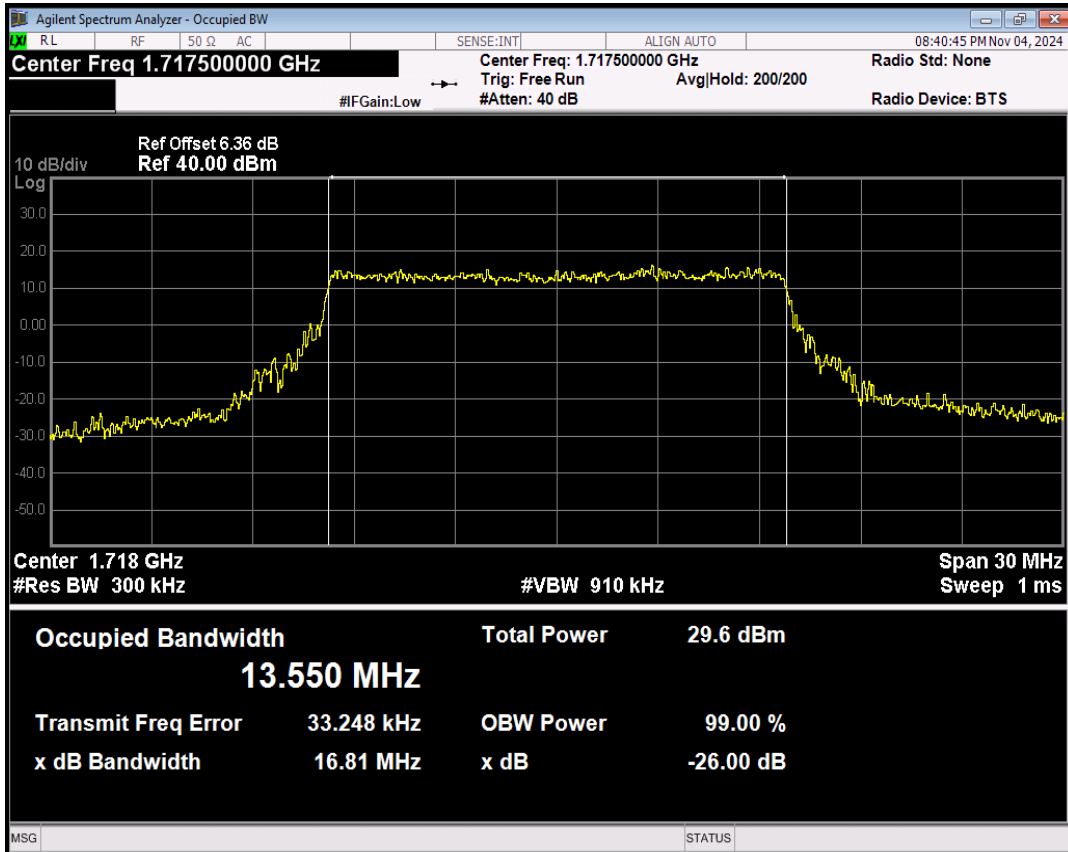
Band4 QPSK BW=10MHz Channel=20175 RB Size=50 Position=#0



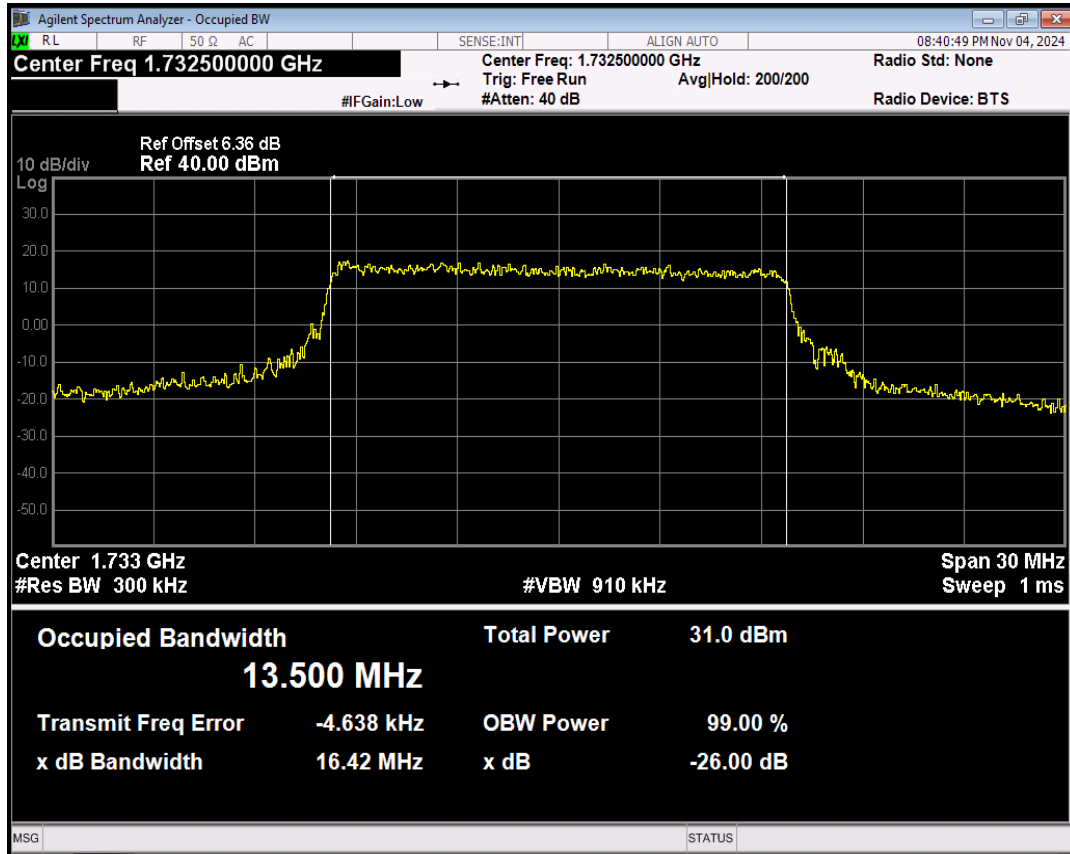
Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0



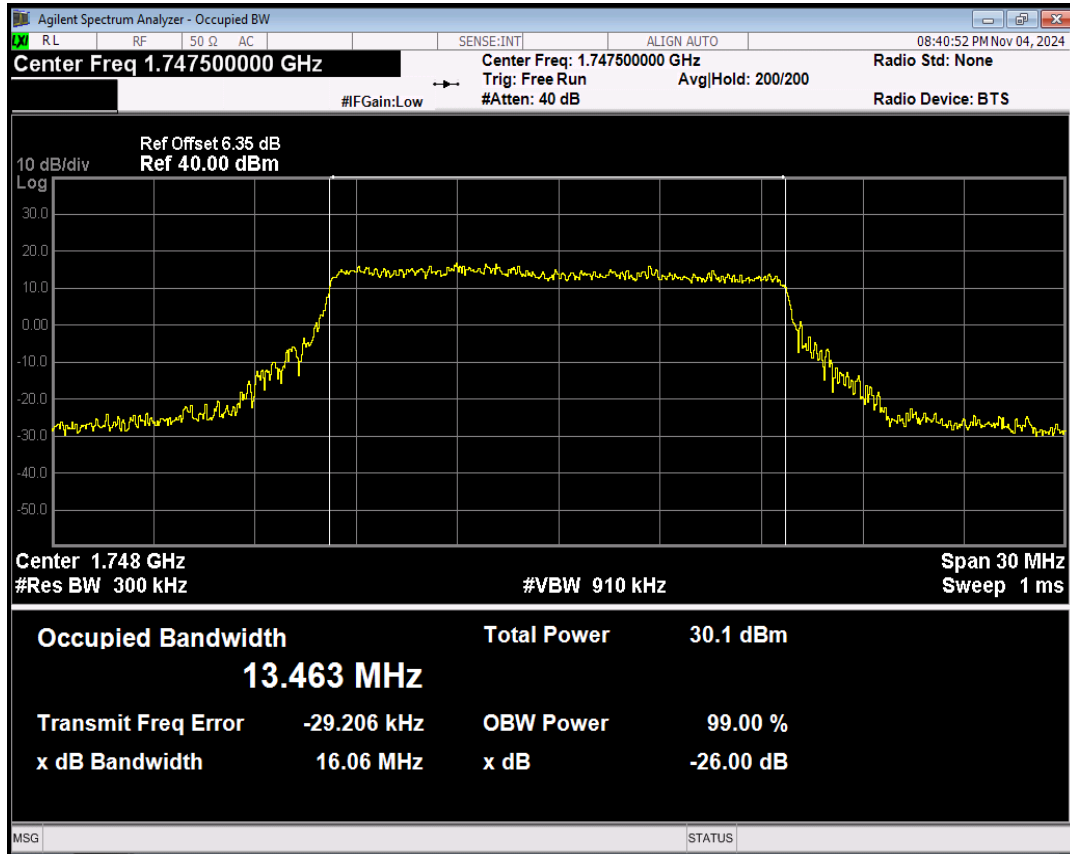
Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0



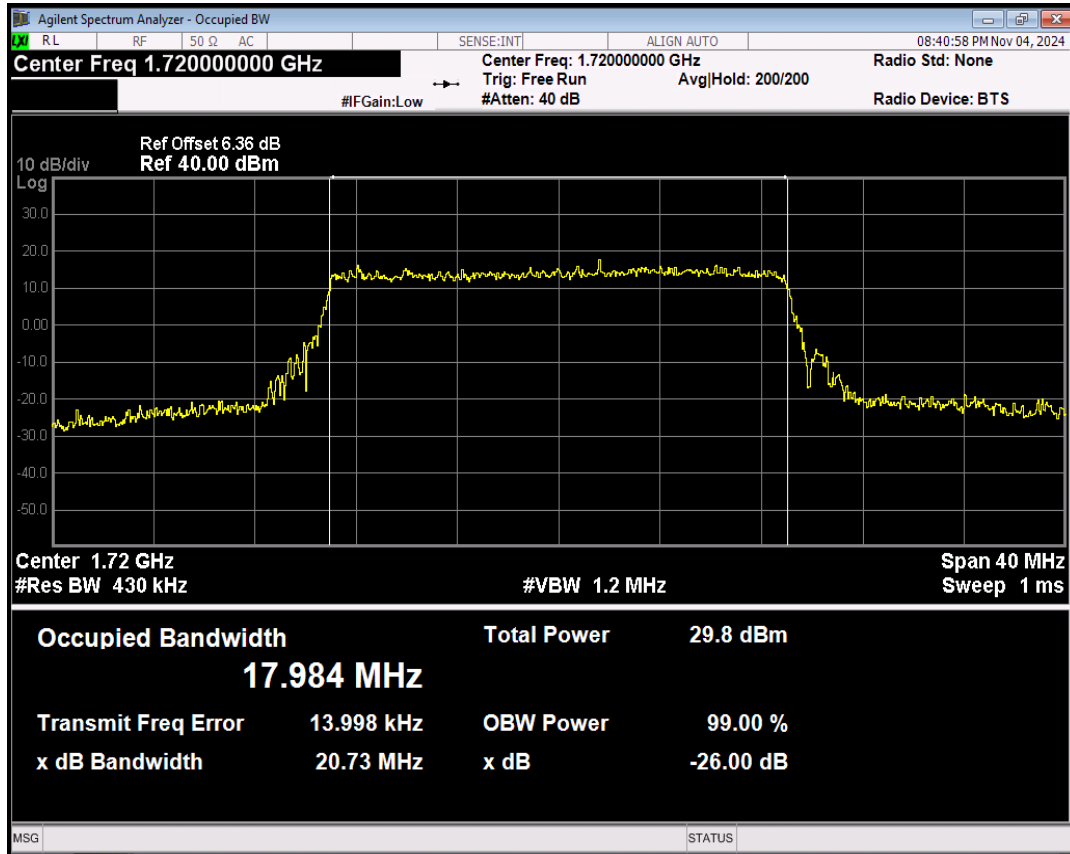
Band4 QPSK BW=15MHz Channel=20175 RB Size=75 Position=#0



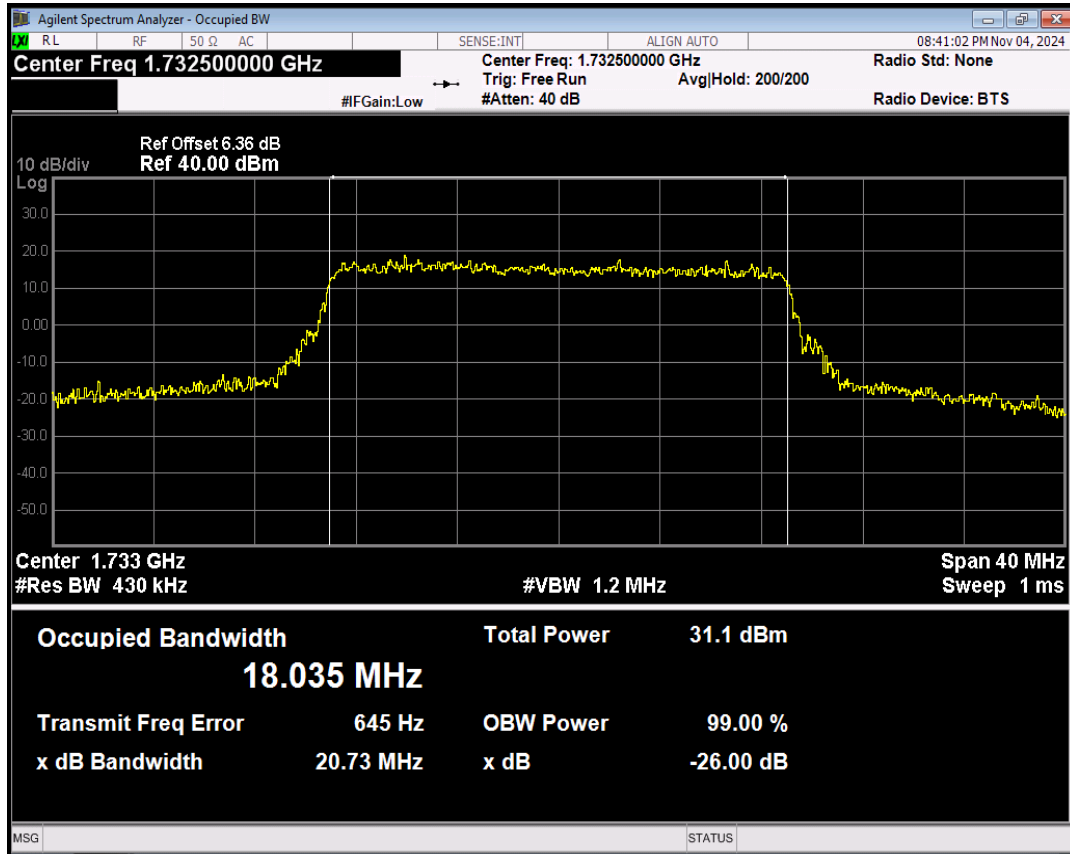
Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0



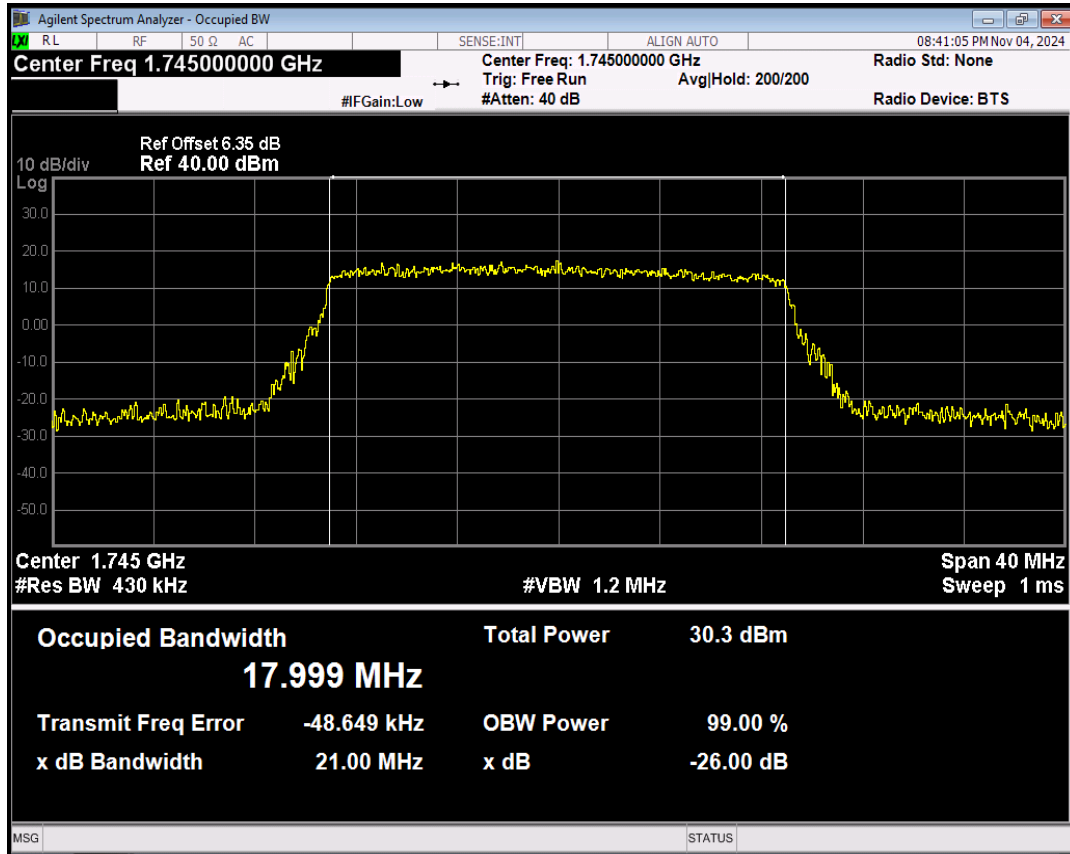
Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0



Band4 QPSK BW=20MHz Channel=20175 RB Size=100 Position=#0



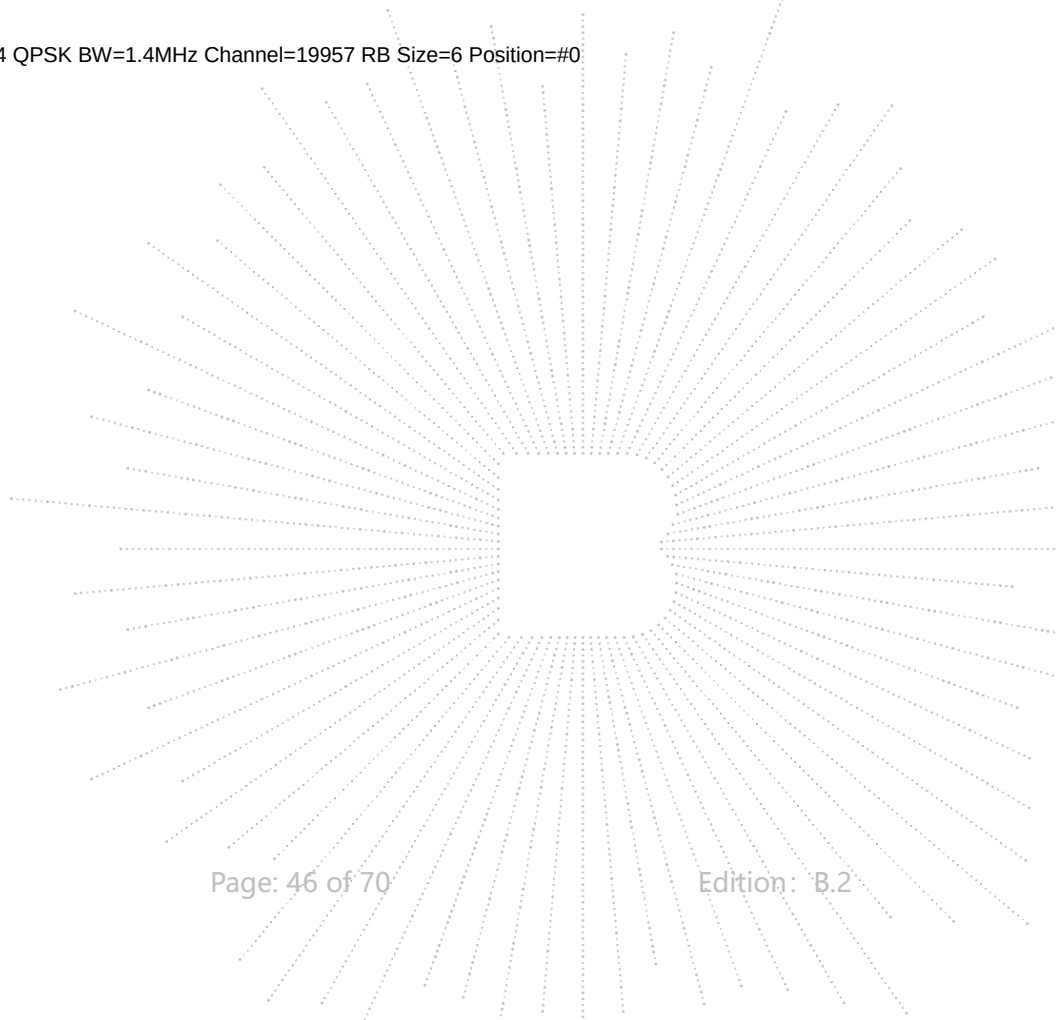
Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0

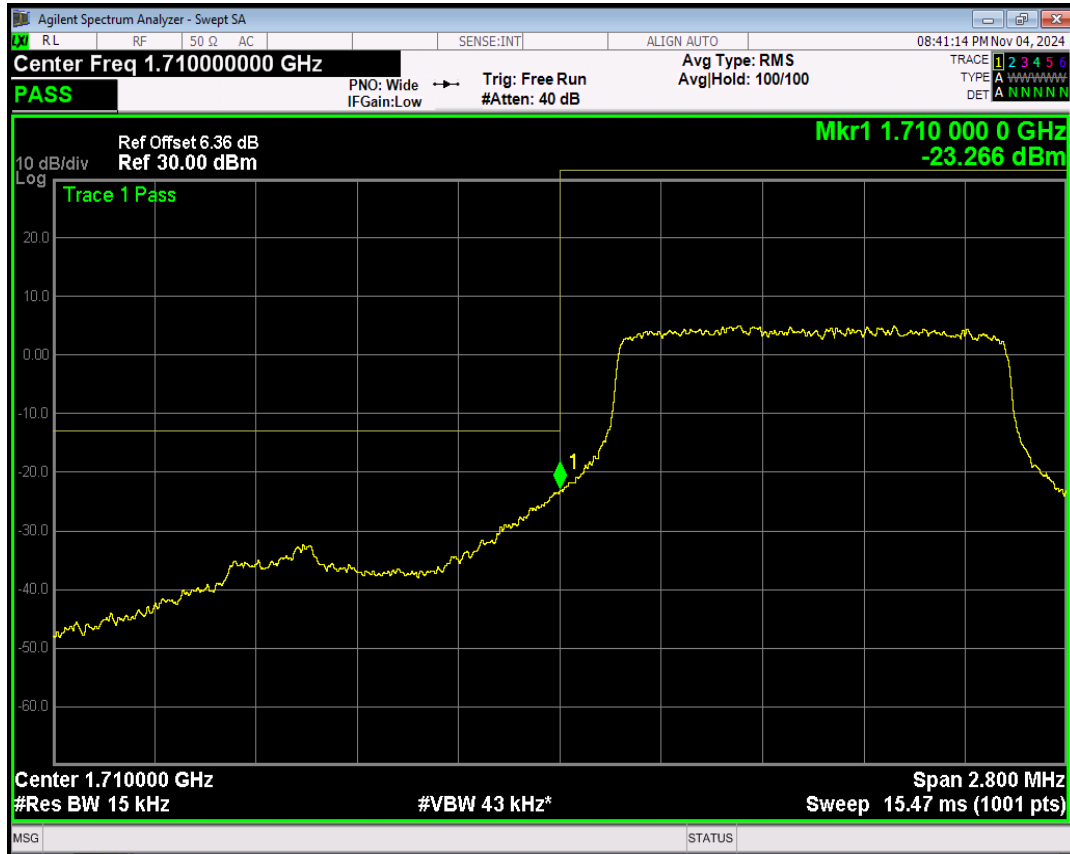


Appendix 5. Band edge

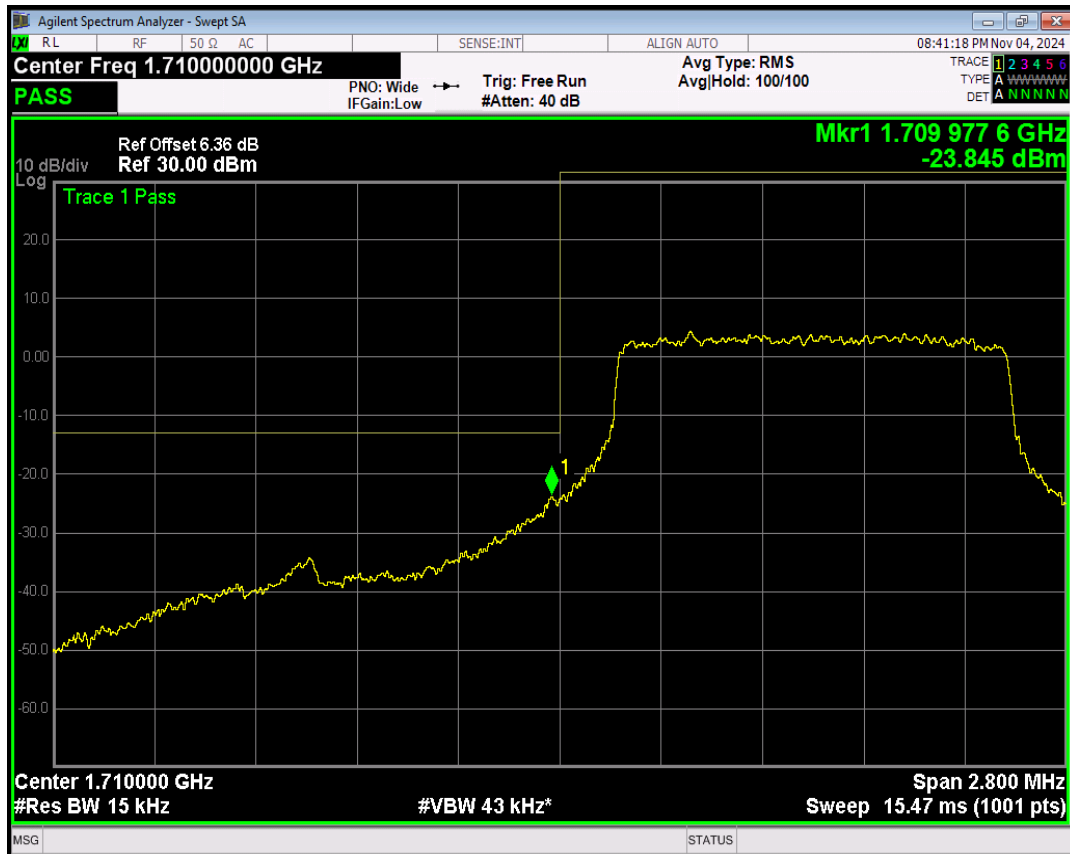
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band4	1.4	19957	6	#0	QPSK	1710.00	-23.26	-13	PASS
Band4	1.4	19957	6	#0	16QAM	1709.98	-23.84	-13	PASS
Band4	1.4	20393	6	#0	QPSK	1755.01	-23.30	-13	PASS
Band4	1.4	20393	6	#0	16QAM	1755.00	-24.55	-13	PASS
Band4	3	19965	15	#0	QPSK	1709.99	-22.81	-13	PASS
Band4	3	19965	15	#0	16QAM	1709.99	-22.61	-13	PASS
Band4	3	20385	15	#0	QPSK	1755.00	-23.56	-13	PASS
Band4	3	20385	15	#0	16QAM	1755.01	-25.33	-13	PASS
Band4	5	19975	25	#0	QPSK	1710.00	-28.07	-13	PASS
Band4	5	19975	25	#0	16QAM	1710.00	-26.07	-13	PASS
Band4	5	20375	25	#0	QPSK	1755.00	-27.87	-13	PASS
Band4	5	20375	25	#0	16QAM	1755.00	-28.84	-13	PASS
Band4	10	20000	50	#0	QPSK	1709.96	-35.25	-13	PASS
Band4	10	20350	50	#0	QPSK	1755.00	-37.49	-13	PASS
Band4	15	20025	75	#0	QPSK	1710.00	-25.49	-13	PASS
Band4	15	20325	75	#0	QPSK	1755.06	-27.71	-13	PASS
Band4	20	20050	100	#0	QPSK	1709.72	-28.15	-13	PASS
Band4	20	20300	100	#0	QPSK	1755.00	-29.88	-13	PASS

Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0





Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0



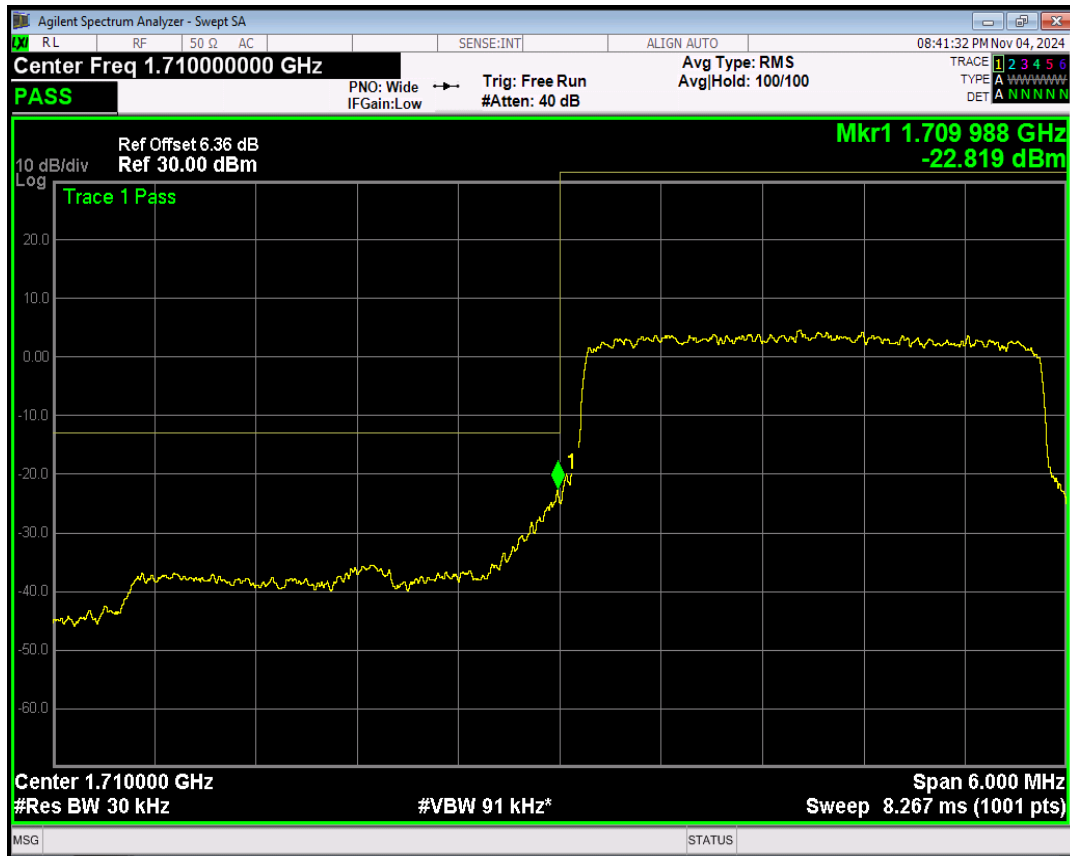
Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0



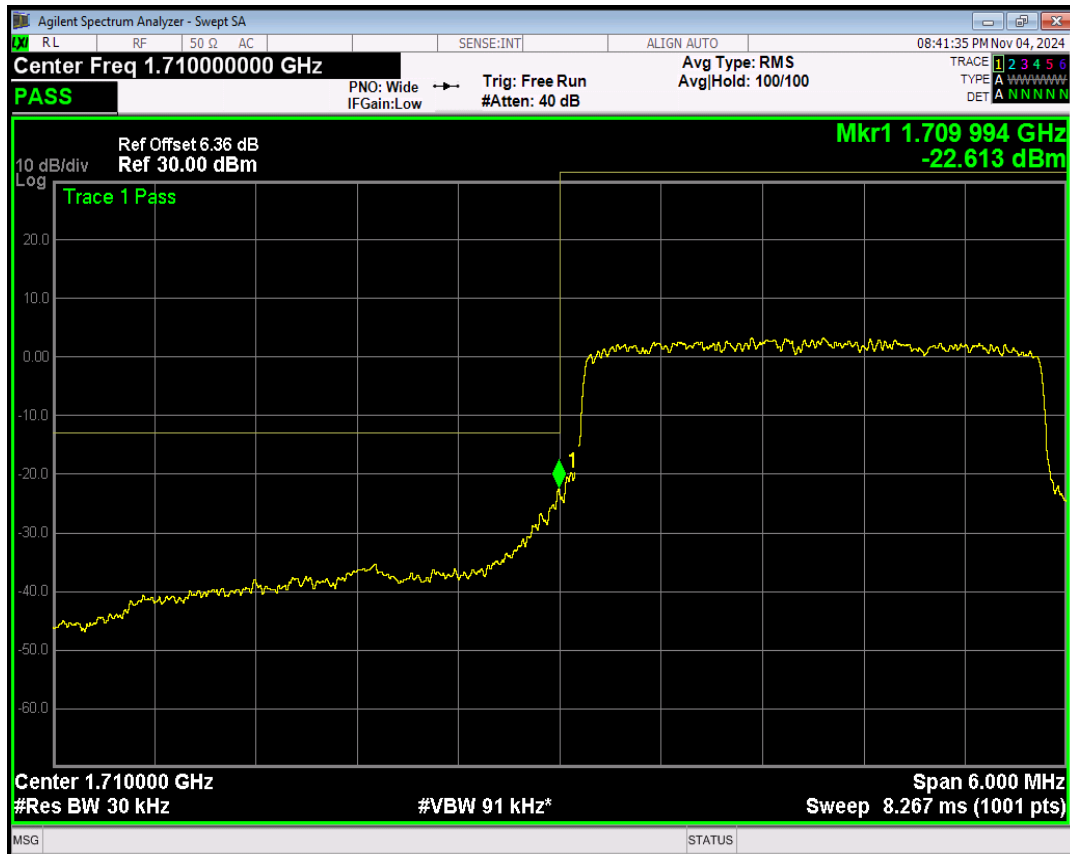
Band4 16QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0



Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



Band4 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0



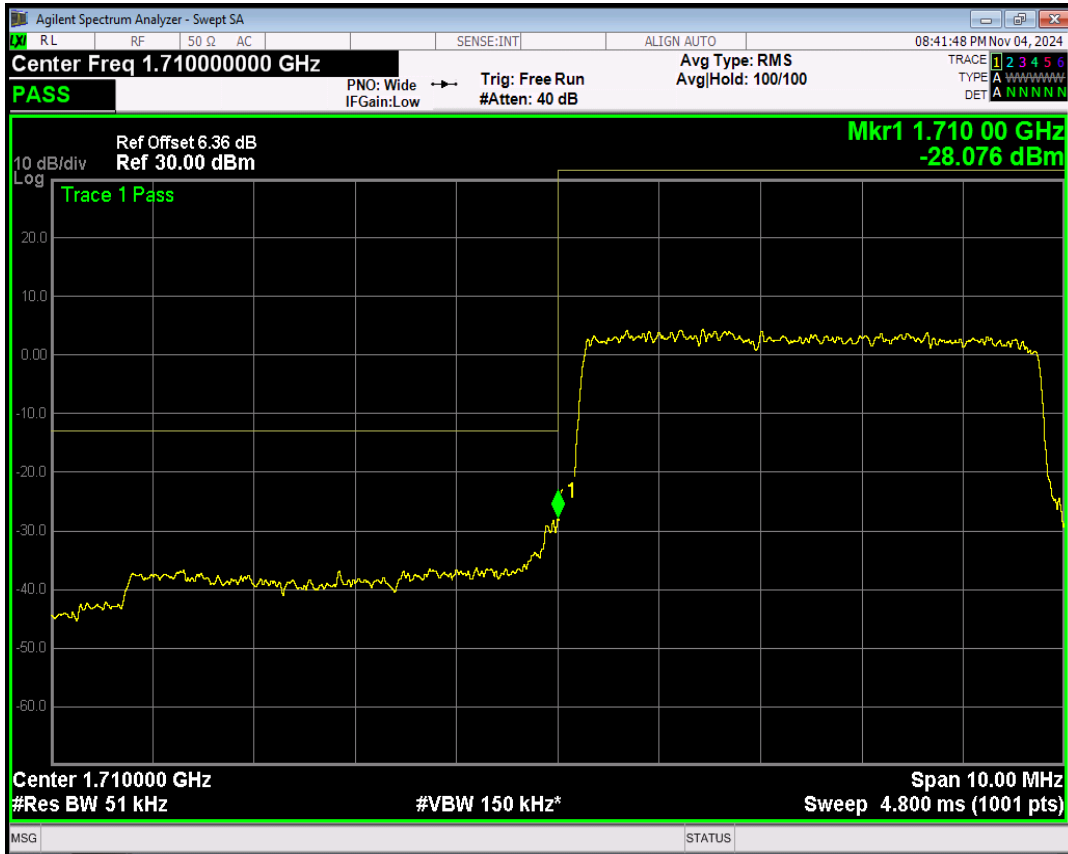
Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0



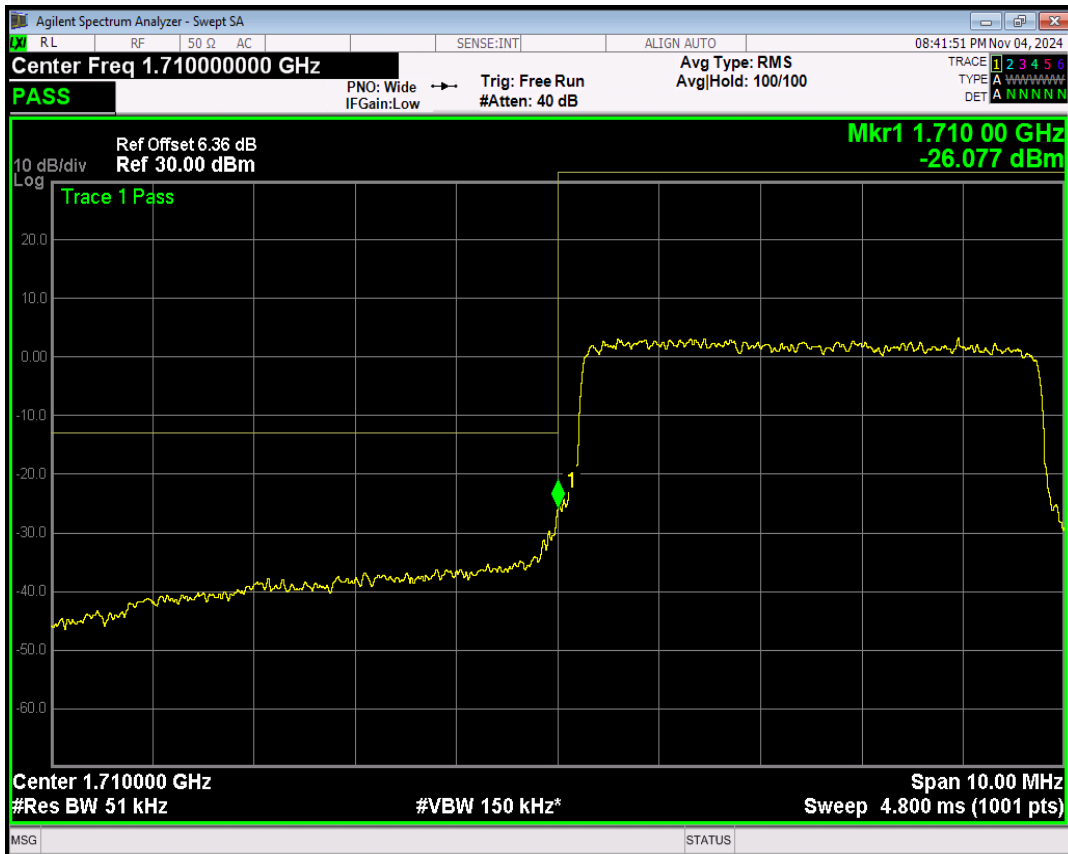
Band4 16QAM BW=3MHz Channel=20385 RB Size=15 Position=#0



Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0



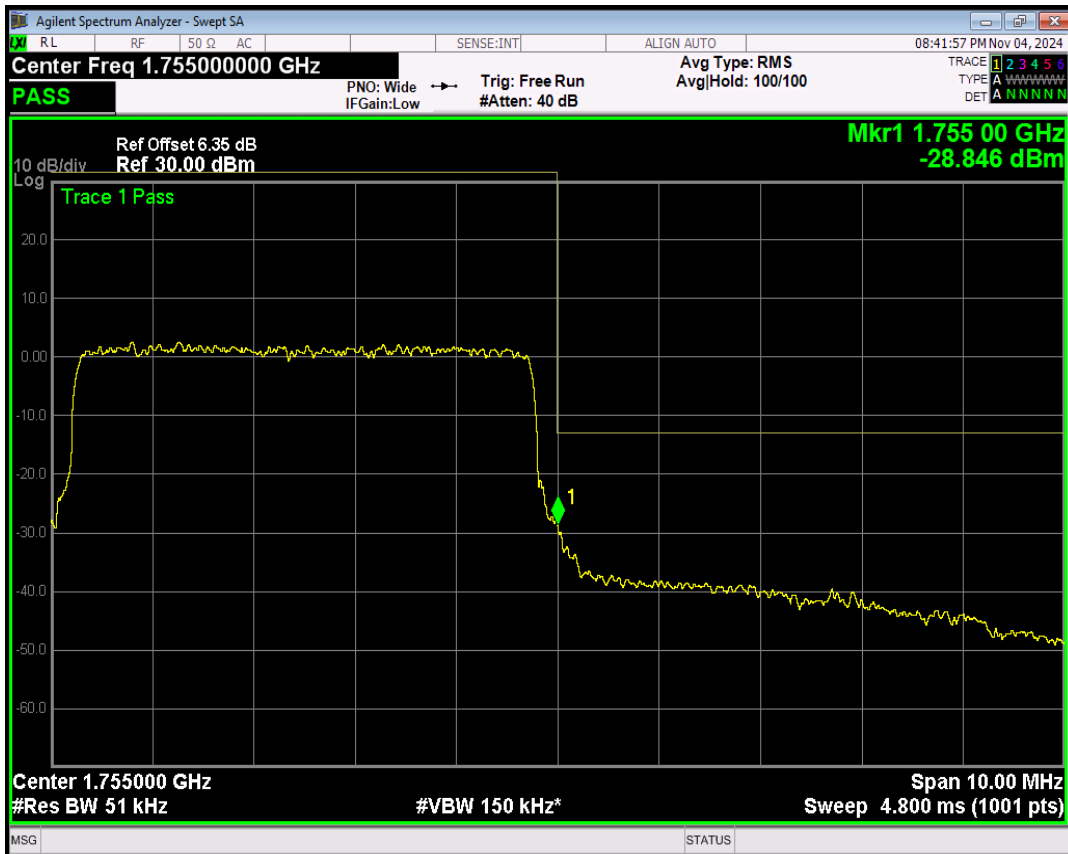
Band4 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0



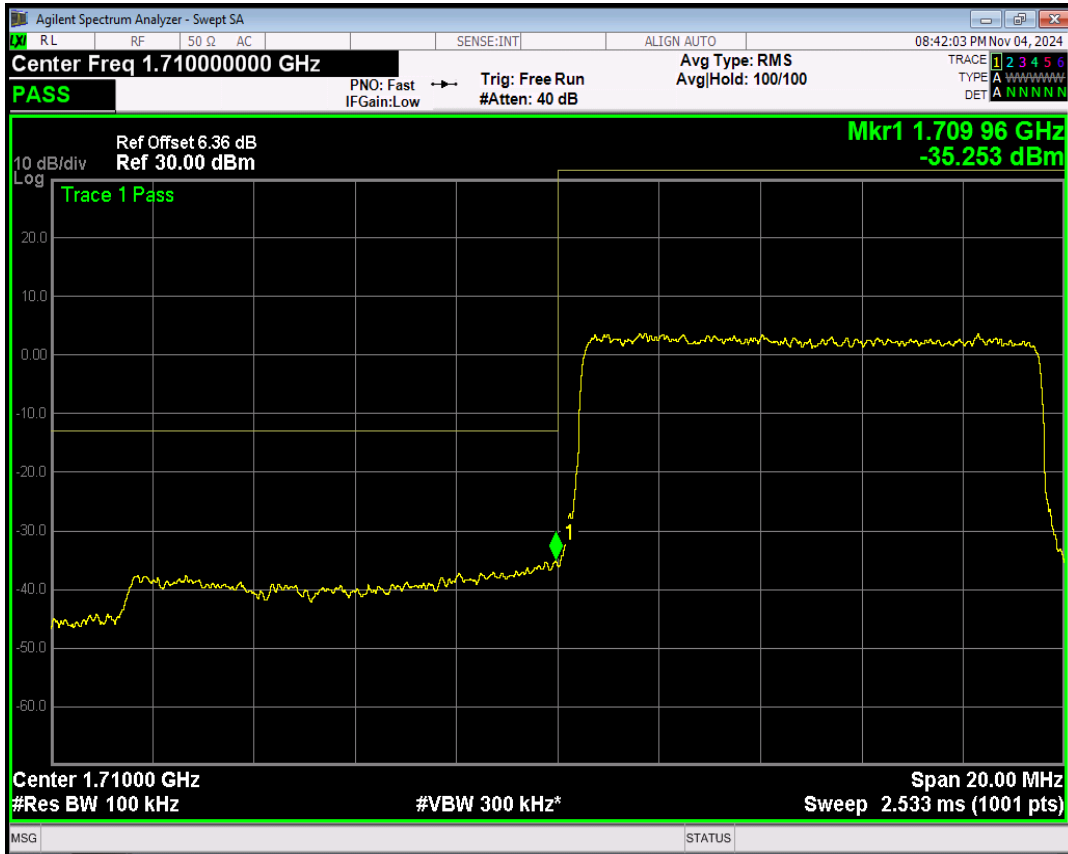
Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0



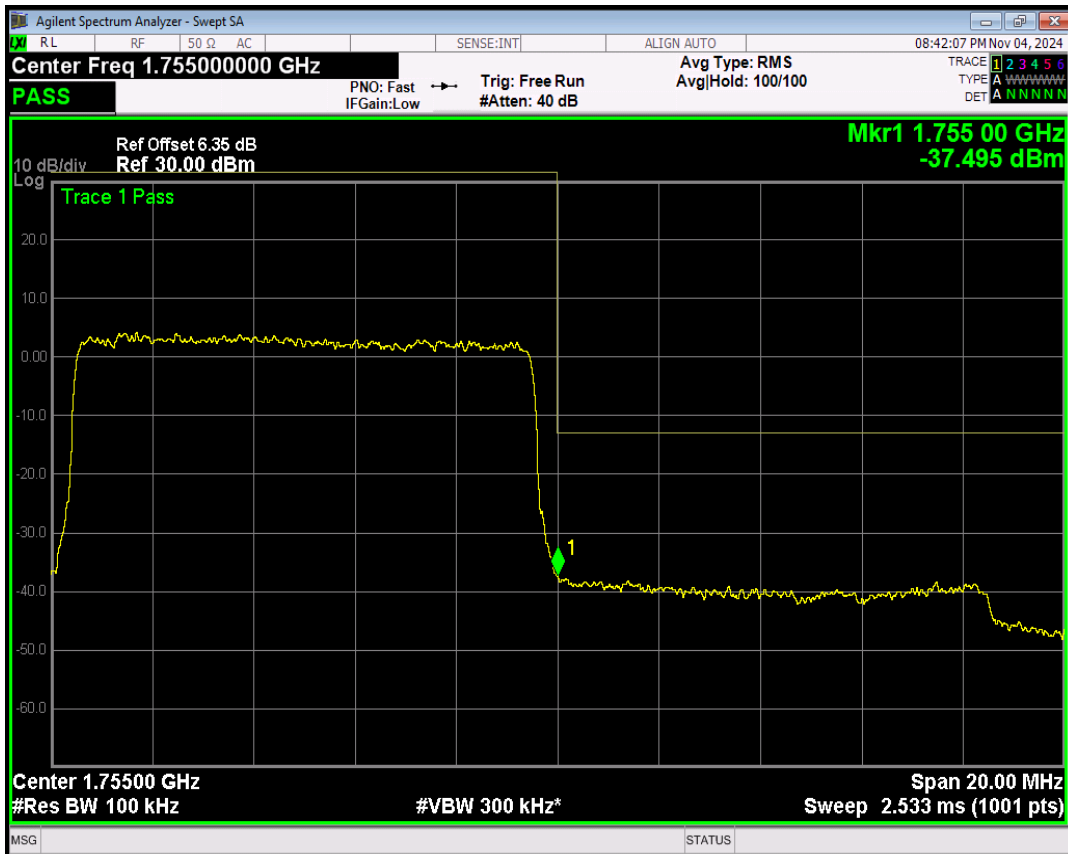
Band4 16QAM BW=5MHz Channel=20375 RB Size=25 Position=#0



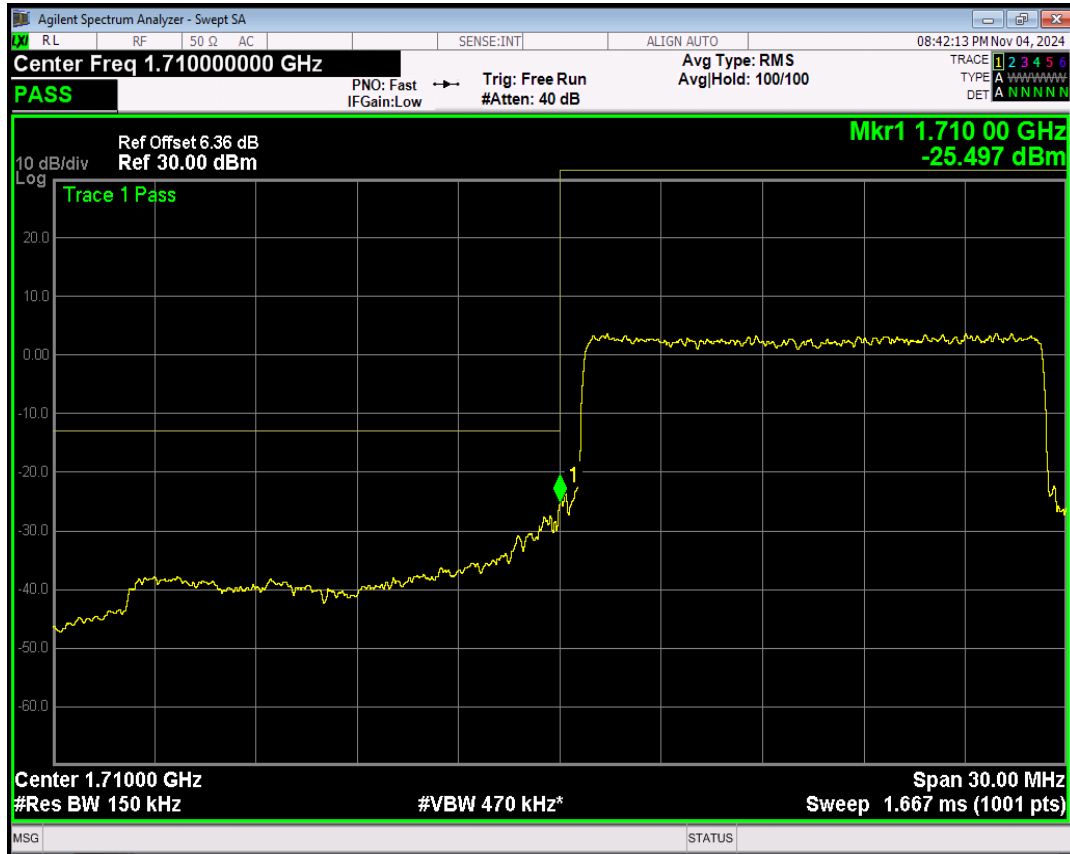
Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



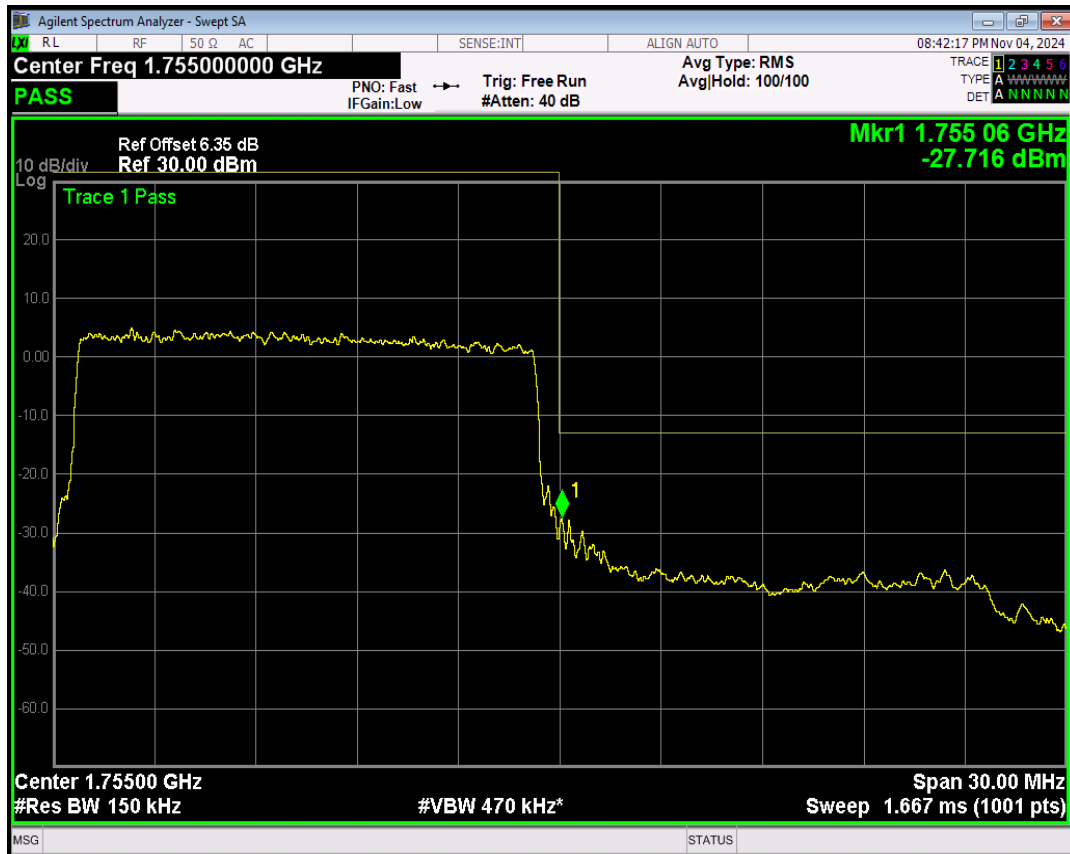
Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0



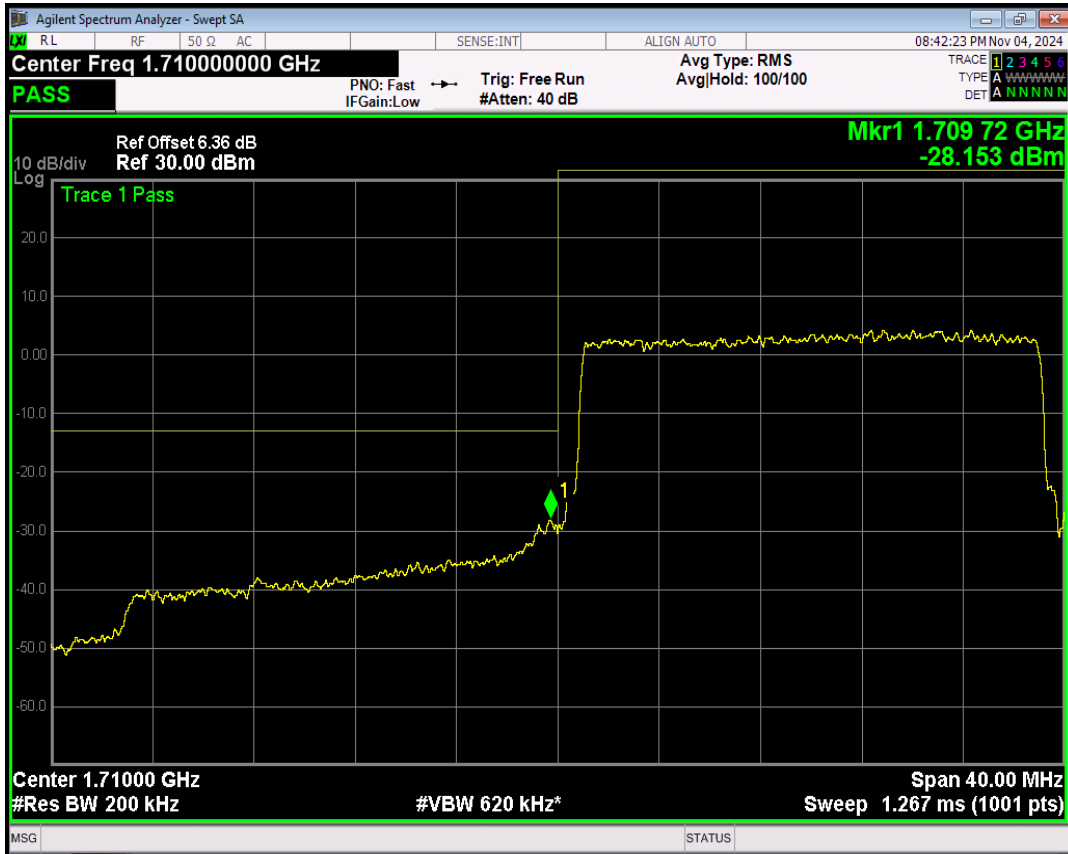
Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0



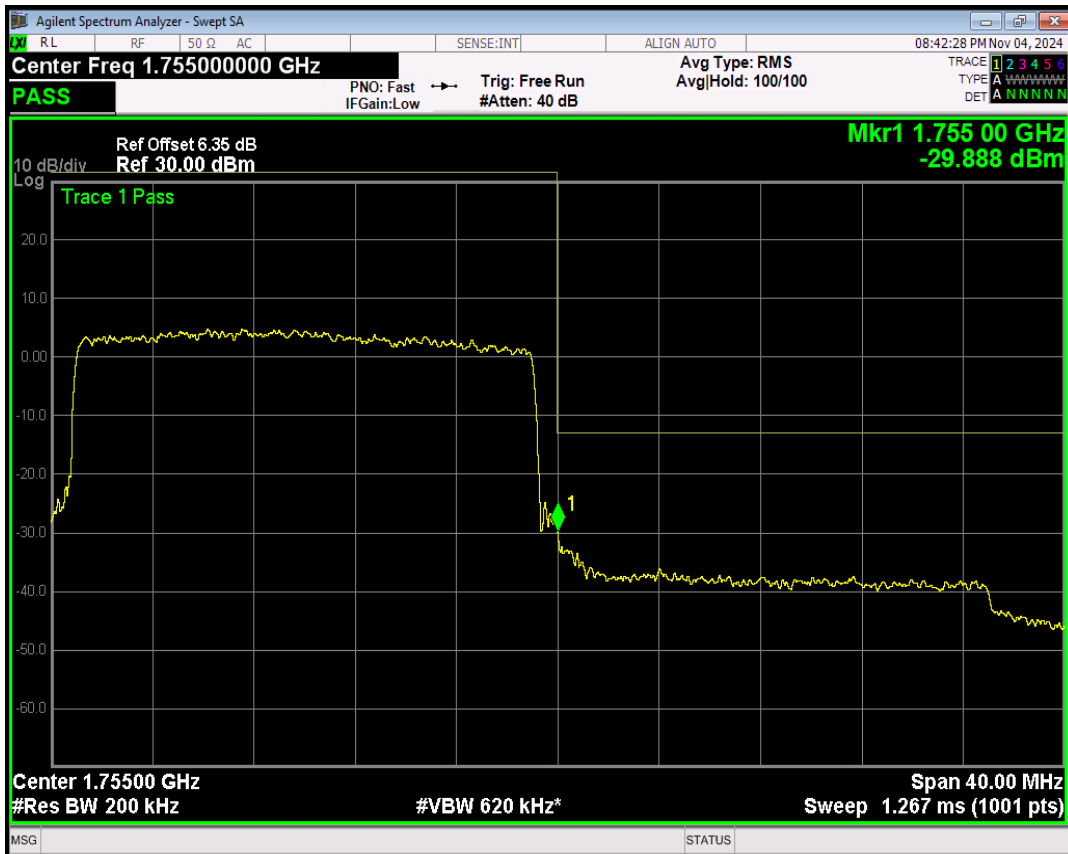
Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0



Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0



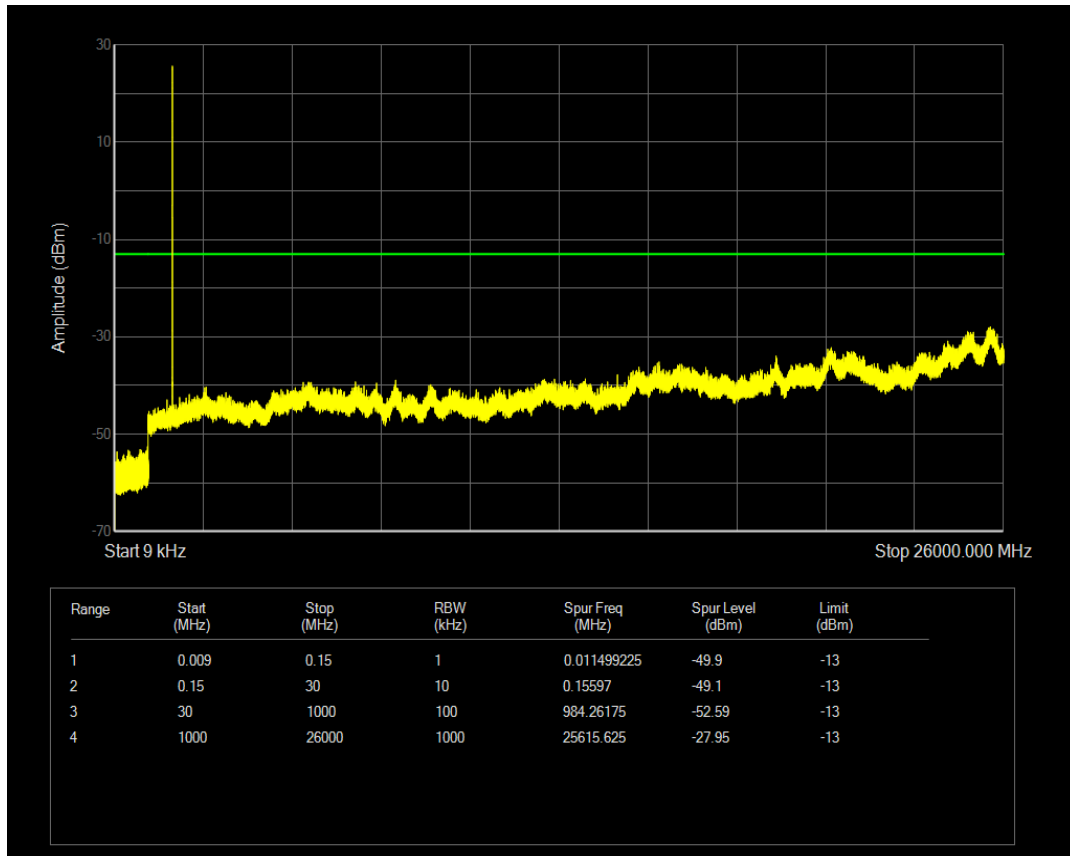
Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0



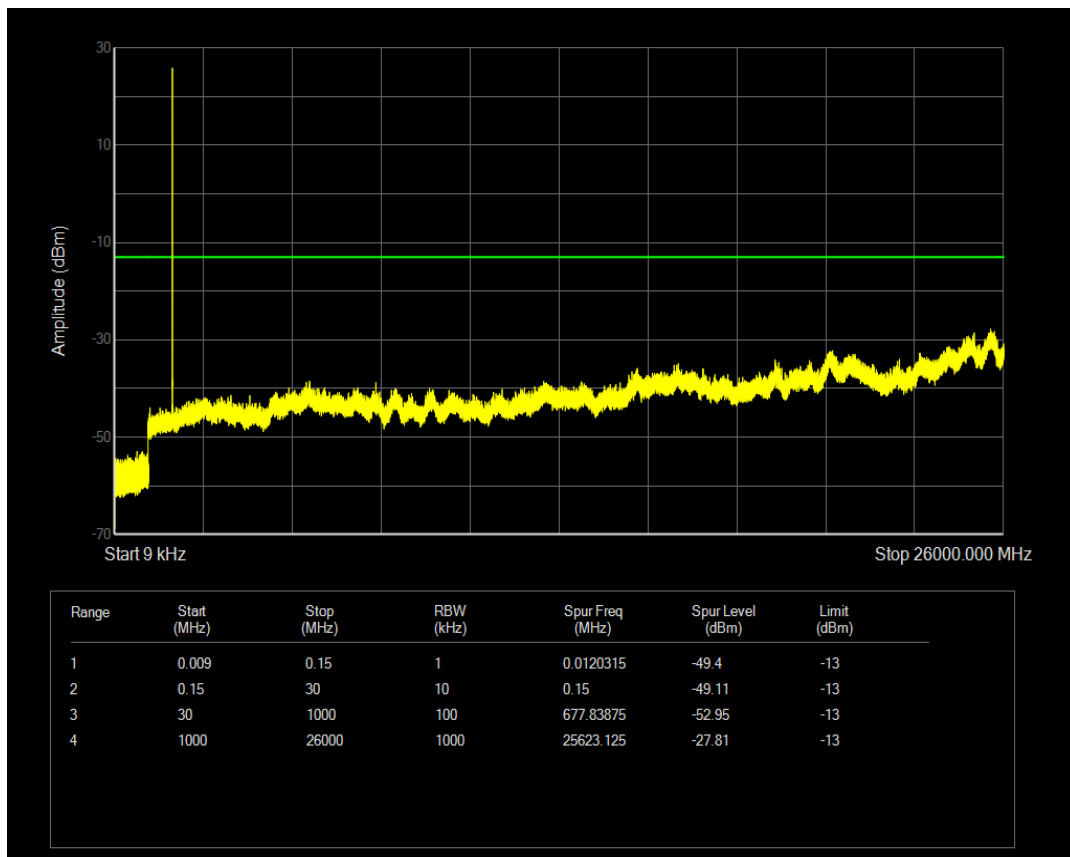
Appendix 6. Out-of-band emissions

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band4	1.4	19957	6	#0	QPSK	25615.63	-27.95	-13	PASS
Band4	1.4	19957	6	#0	16QAM	25623.13	-27.81	-13	PASS
Band4	1.4	20175	6	#0	QPSK	25639.38	-27.65	-13	PASS
Band4	1.4	20175	6	#0	16QAM	25633.13	-27.83	-13	PASS
Band4	1.4	20393	6	#0	QPSK	25651.88	-26.75	-13	PASS
Band4	1.4	20393	6	#0	16QAM	25715.00	-27.07	-13	PASS
Band4	3	19965	15	#0	QPSK	25610.00	-26.73	-13	PASS
Band4	3	19965	15	#0	16QAM	25627.50	-25.73	-13	PASS
Band4	3	20175	15	#0	QPSK	25651.25	-27.33	-13	PASS
Band4	3	20175	15	#0	16QAM	25645.00	-26.52	-13	PASS
Band4	3	20385	15	#0	QPSK	25720.63	-27.07	-13	PASS
Band4	3	20385	15	#0	16QAM	25605.63	-26.57	-13	PASS
Band4	5	19975	25	#0	QPSK	25628.75	-27.39	-13	PASS
Band4	5	19975	25	#0	16QAM	25715.00	-27.70	-13	PASS
Band4	5	20175	25	#0	QPSK	25645.63	-27.06	-13	PASS
Band4	5	20175	25	#0	16QAM	25662.50	-27.29	-13	PASS
Band4	5	20375	25	#0	QPSK	25629.38	-26.34	-13	PASS
Band4	5	20375	25	#0	16QAM	25671.88	-27.52	-13	PASS
Band4	10	20000	50	#0	QPSK	25611.25	-27.59	-13	PASS
Band4	10	20175	50	#0	QPSK	25674.38	-27.76	-13	PASS
Band4	10	20350	50	#0	QPSK	25695.63	-27.50	-13	PASS
Band4	15	20025	75	#0	QPSK	25656.25	-27.54	-13	PASS
Band4	15	20175	75	#0	QPSK	25637.50	-27.00	-13	PASS
Band4	15	20325	75	#0	QPSK	25656.25	-26.73	-13	PASS
Band4	20	20050	100	#0	QPSK	25640.00	-27.49	-13	PASS
Band4	20	20175	100	#0	QPSK	25634.38	-26.95	-13	PASS
Band4	20	20300	100	#0	QPSK	25650.00	-26.94	-13	PASS

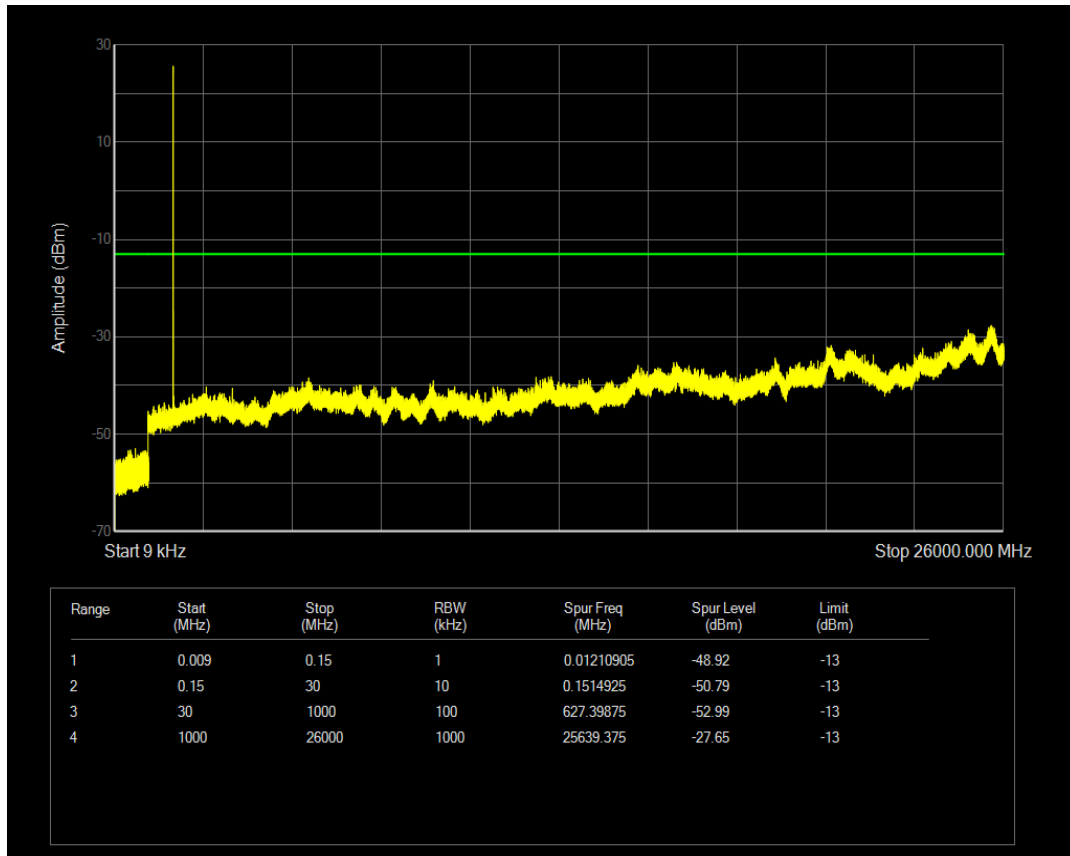
Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0



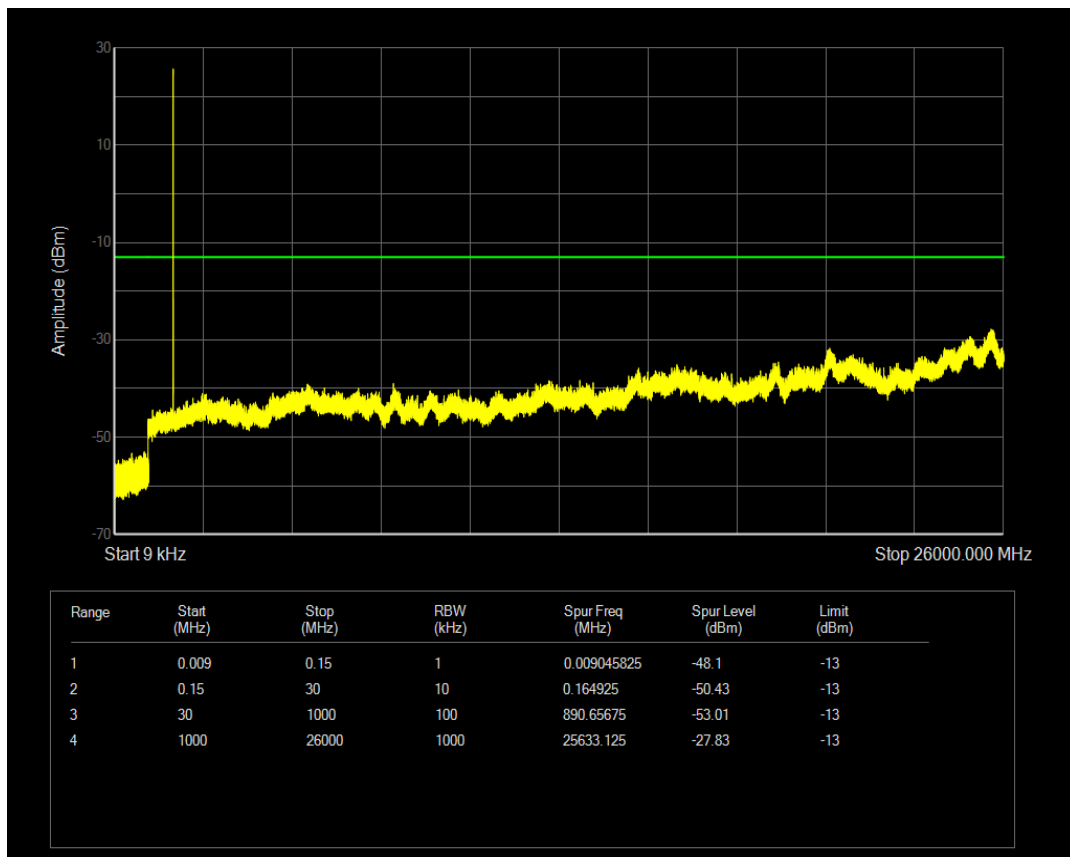
Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0



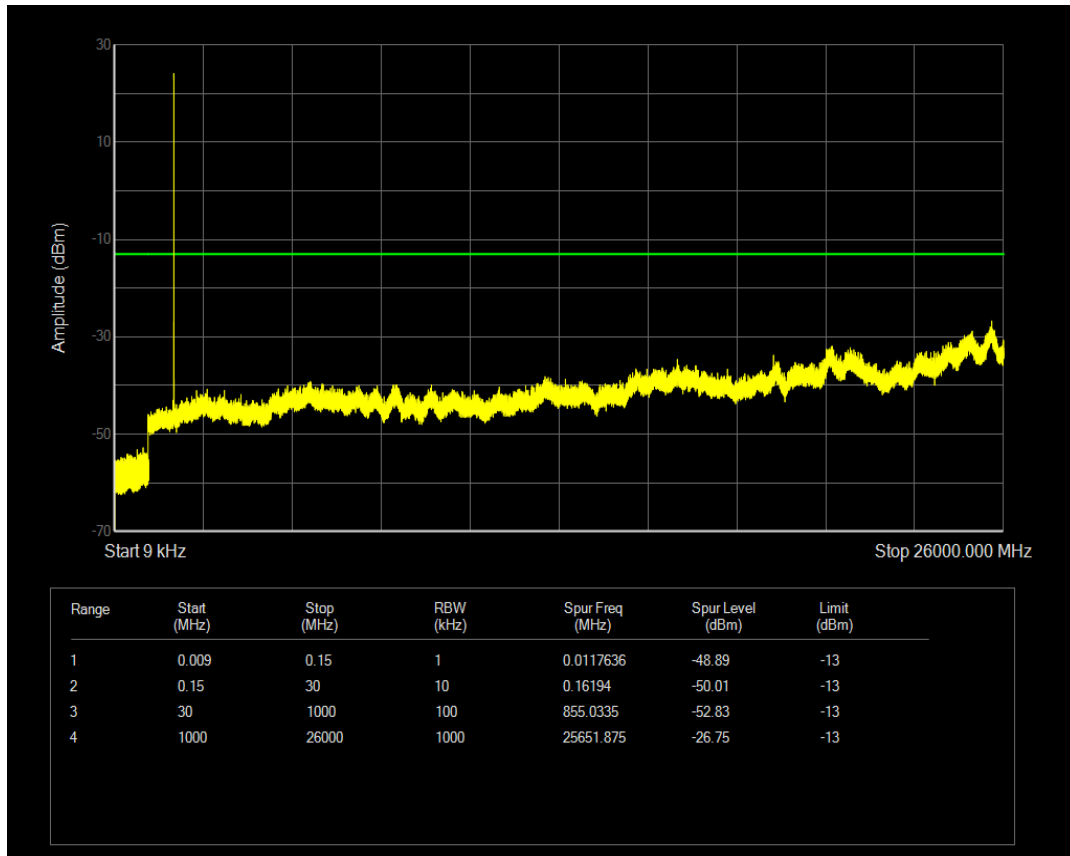
Band4 QPSK BW=1.4MHz Channel=20175 RB Size=6 Position=#0



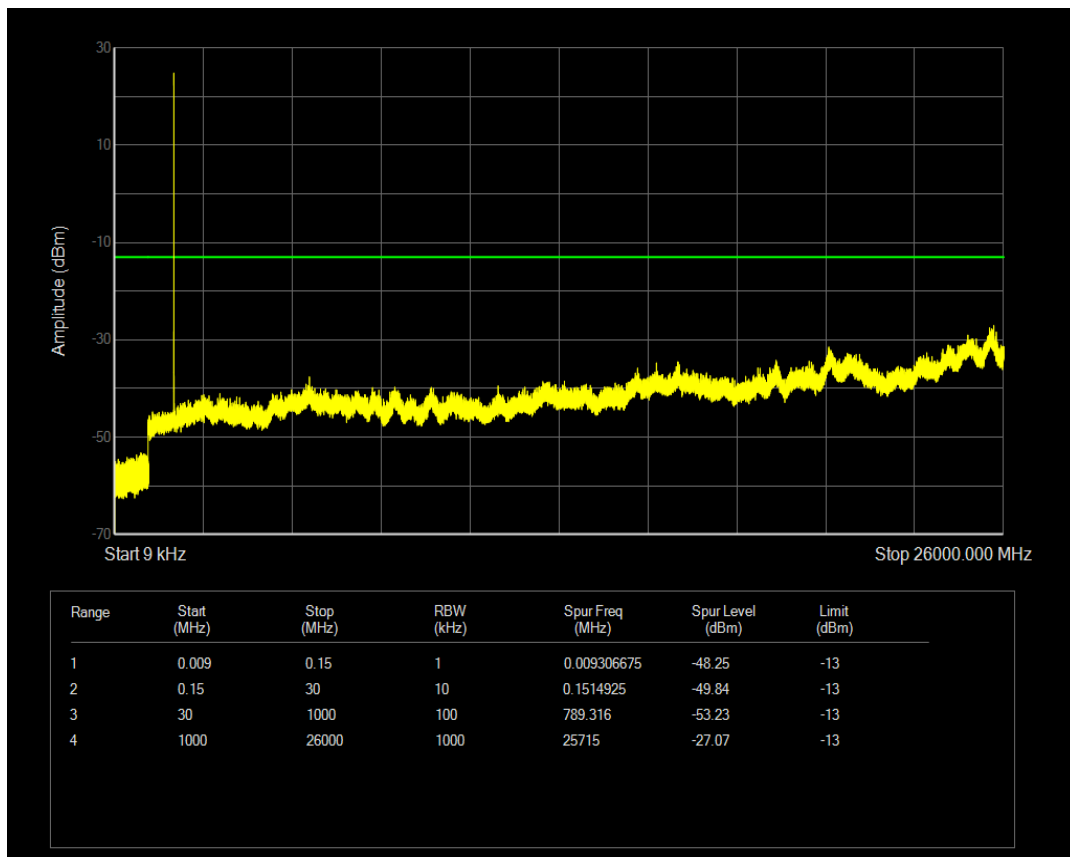
Band4 16QAM BW=1.4MHz Channel=20175 RB Size=6 Position=#0



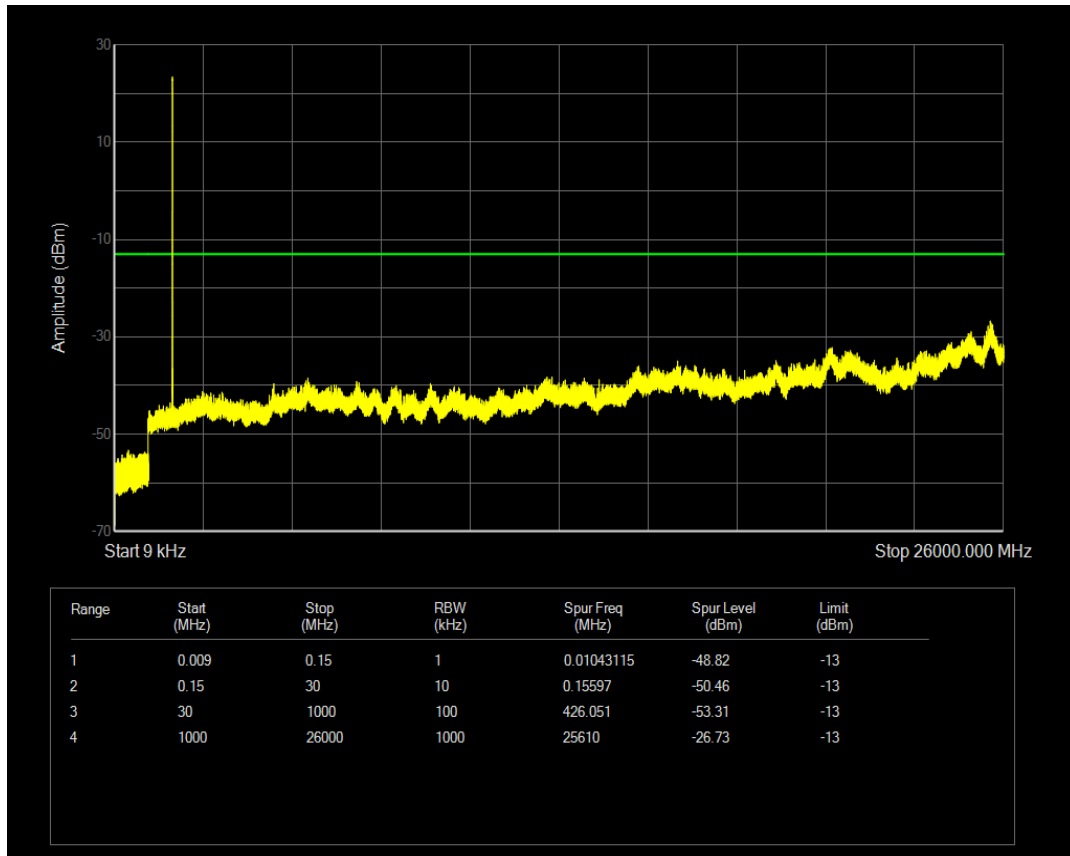
Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0



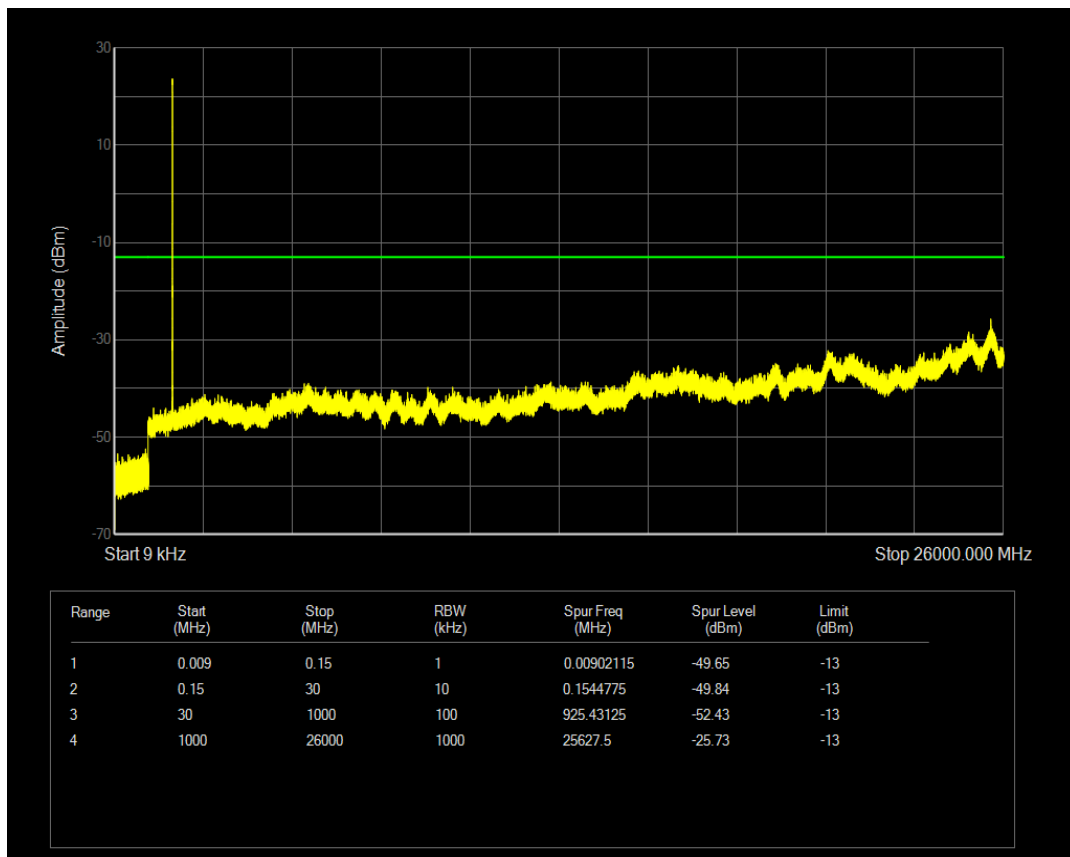
Band4 16QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0



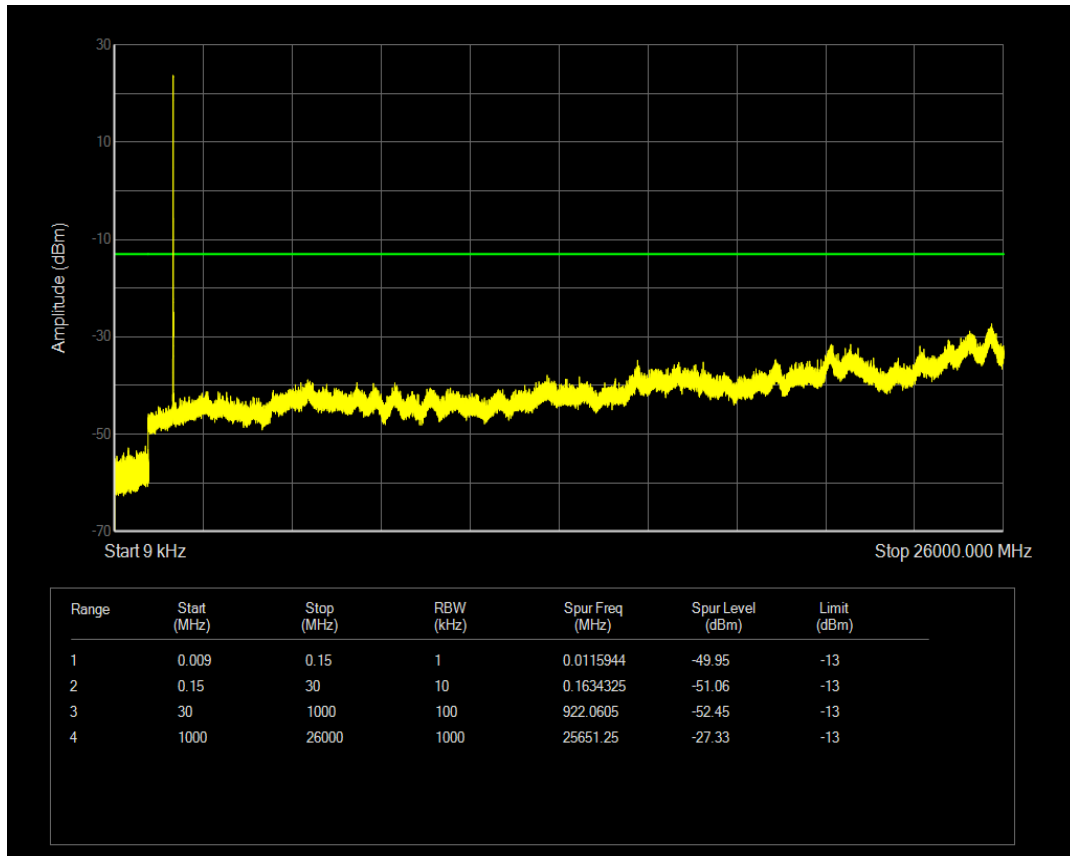
Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



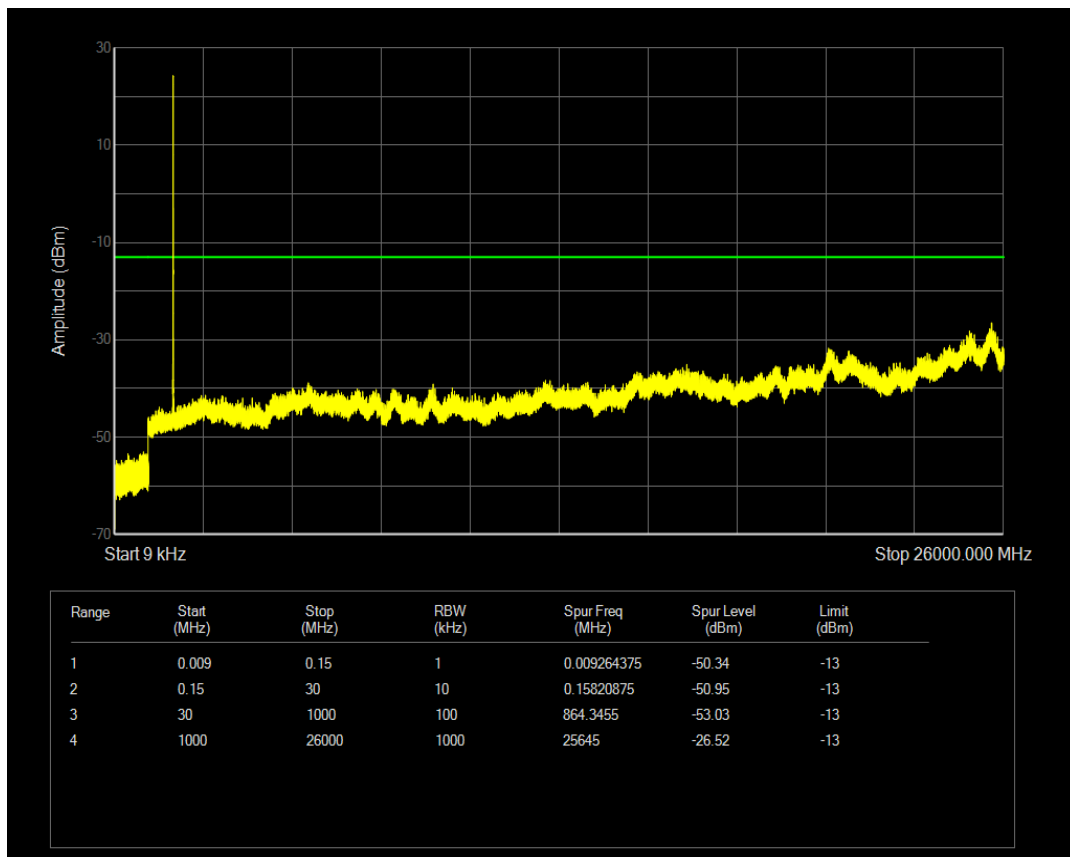
Band4 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0



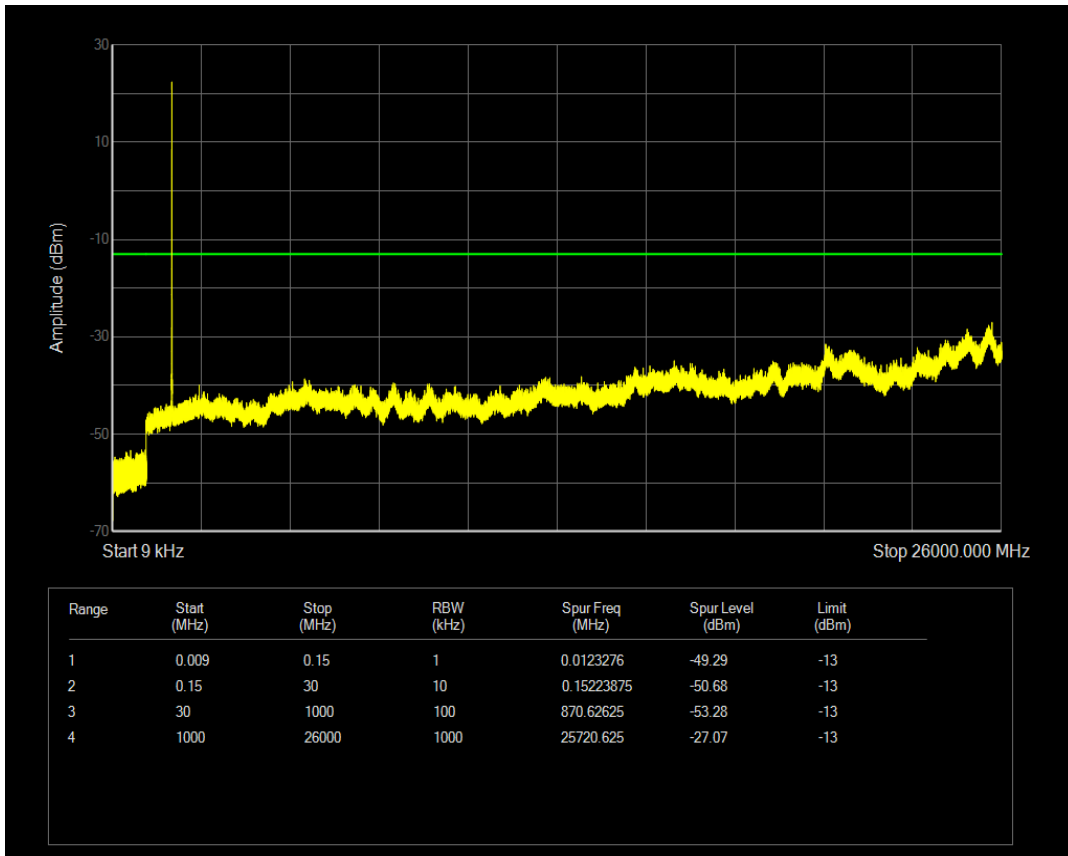
Band4 QPSK BW=3MHz Channel=20175 RB Size=15 Position=#0



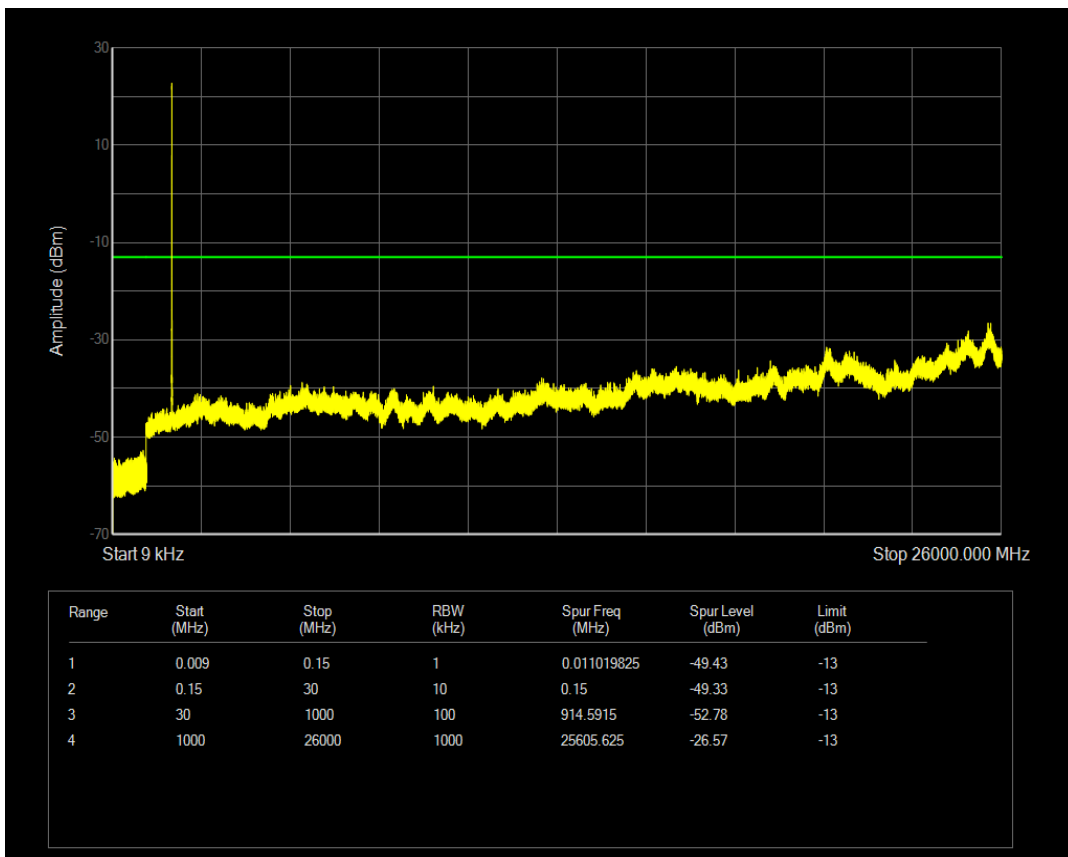
Band4 16QAM BW=3MHz Channel=20175 RB Size=15 Position=#0



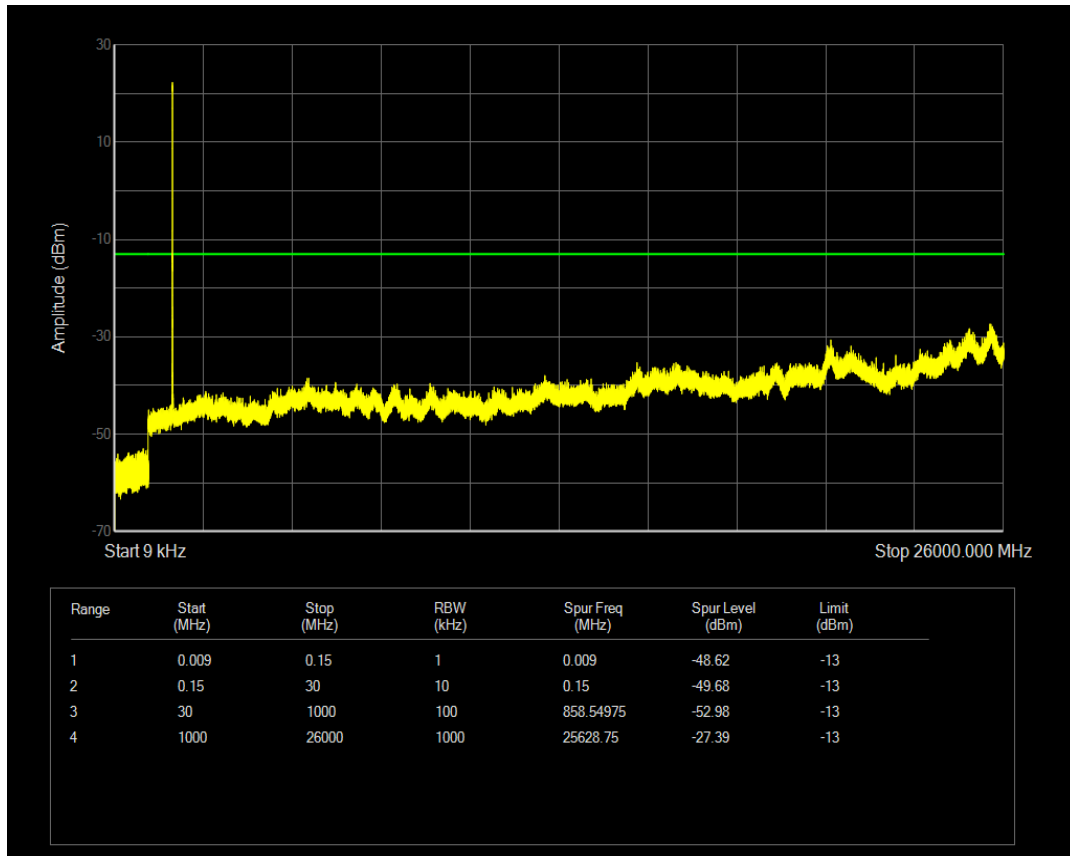
Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0



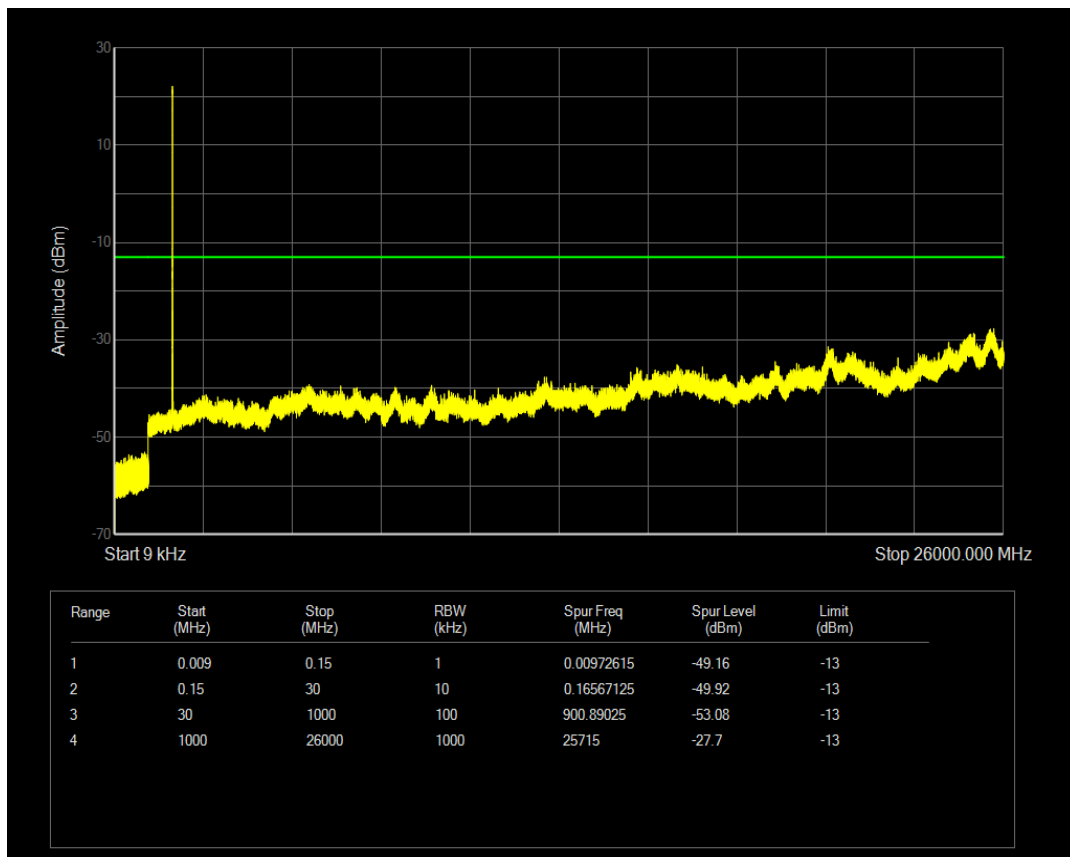
Band4 16QAM BW=3MHz Channel=20385 RB Size=15 Position=#0



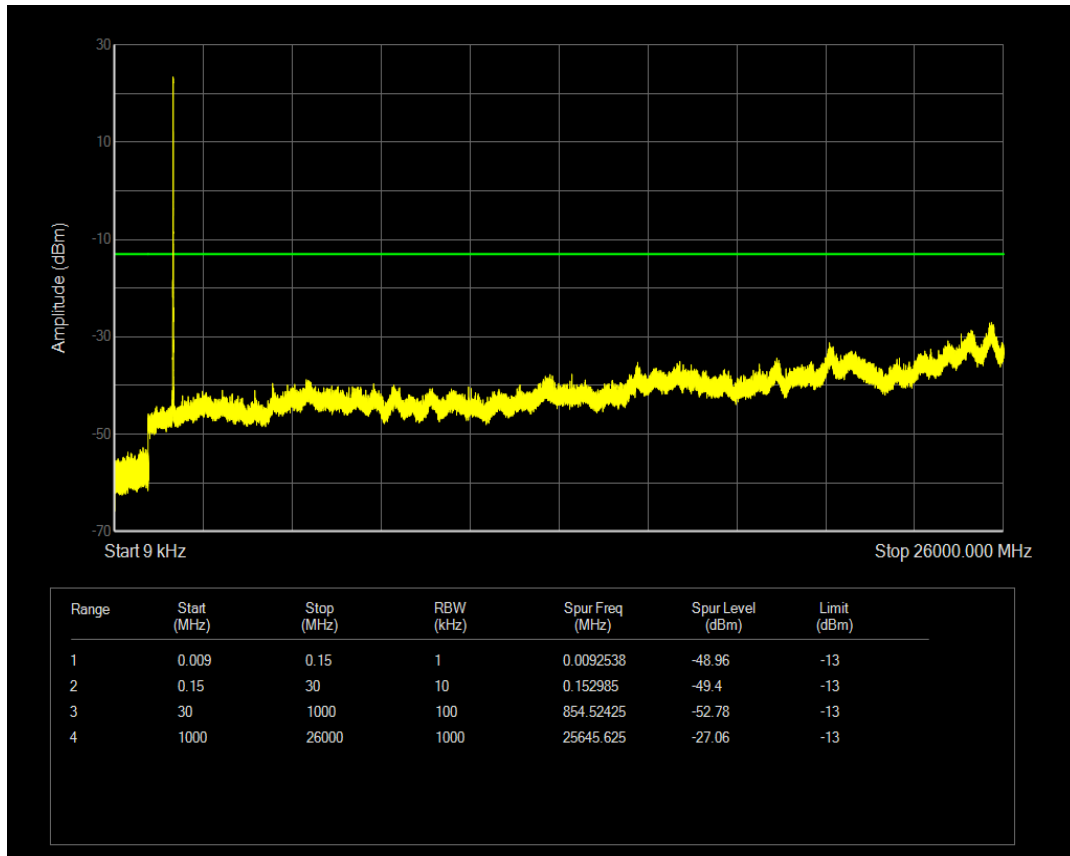
Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0



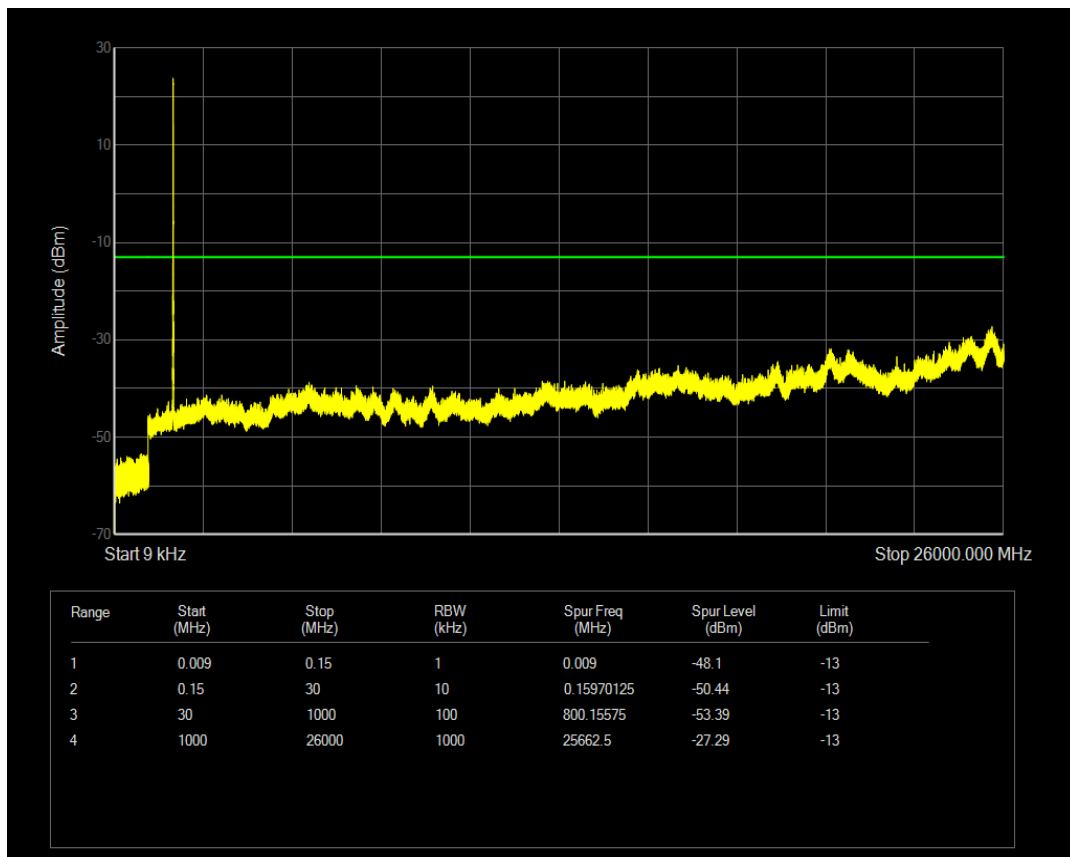
Band4 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0



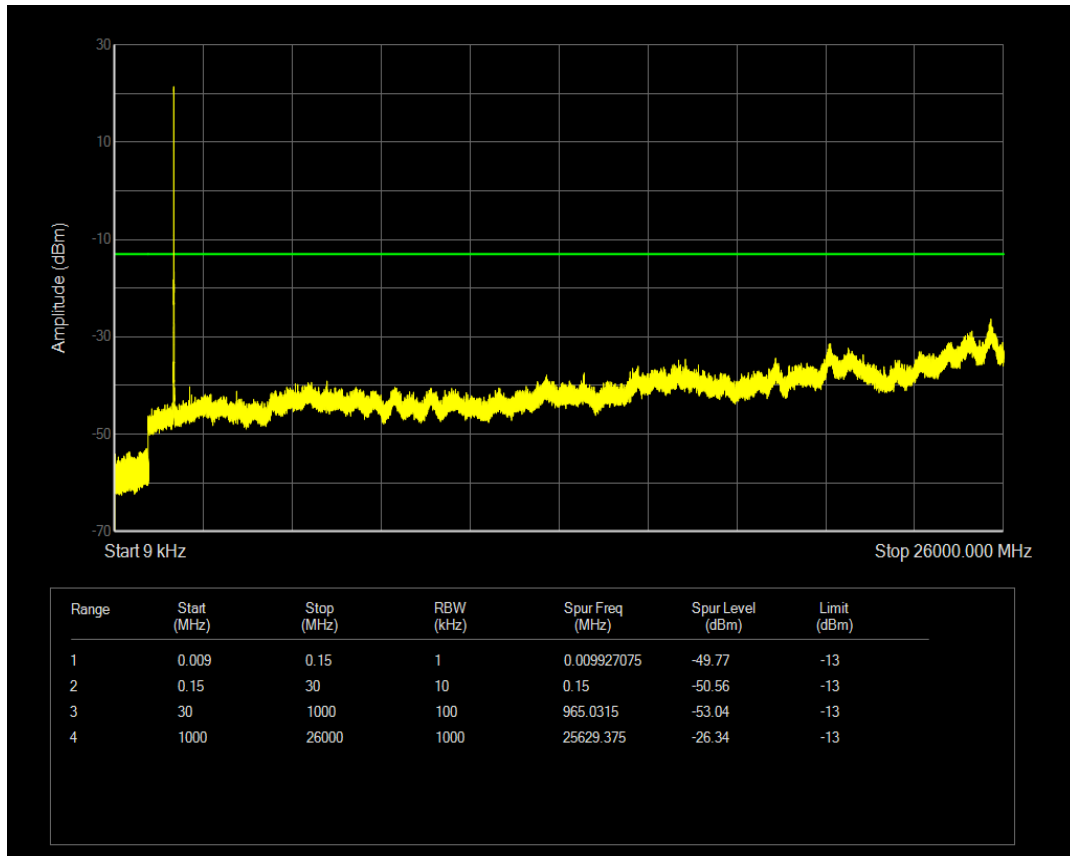
Band4 QPSK BW=5MHz Channel=20175 RB Size=25 Position=#0



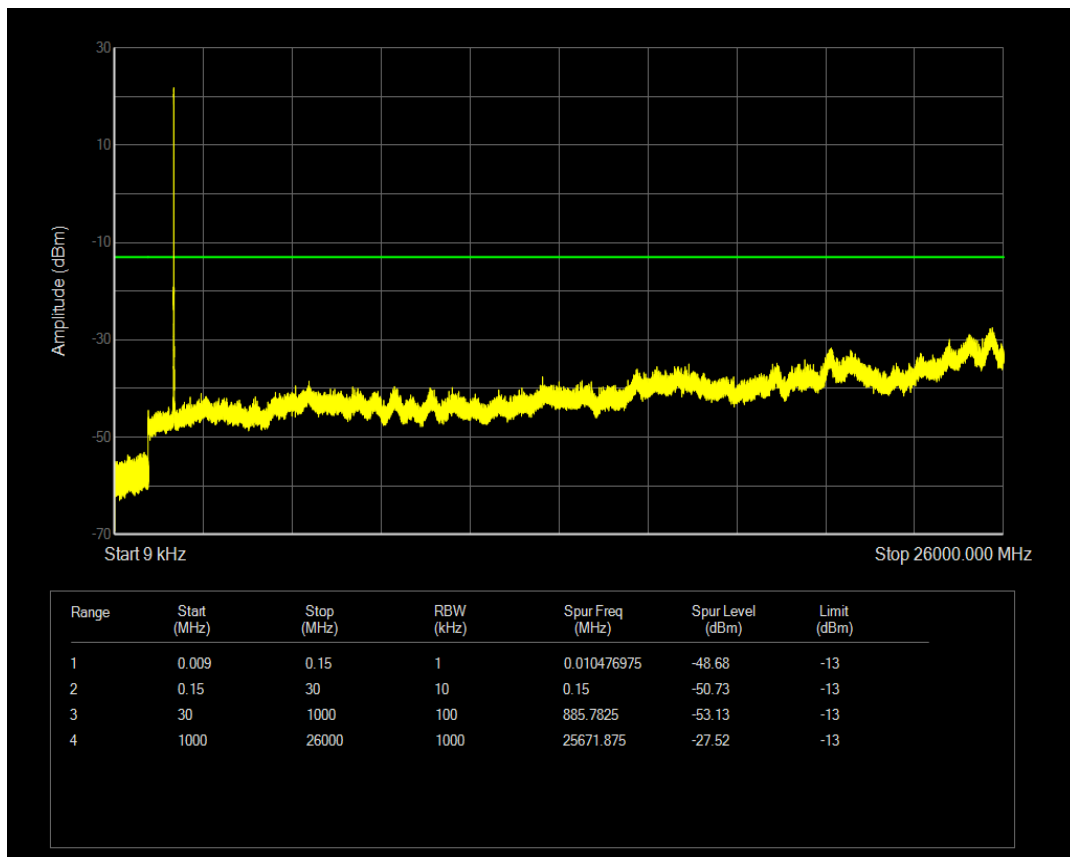
Band4 16QAM BW=5MHz Channel=20175 RB Size=25 Position=#0



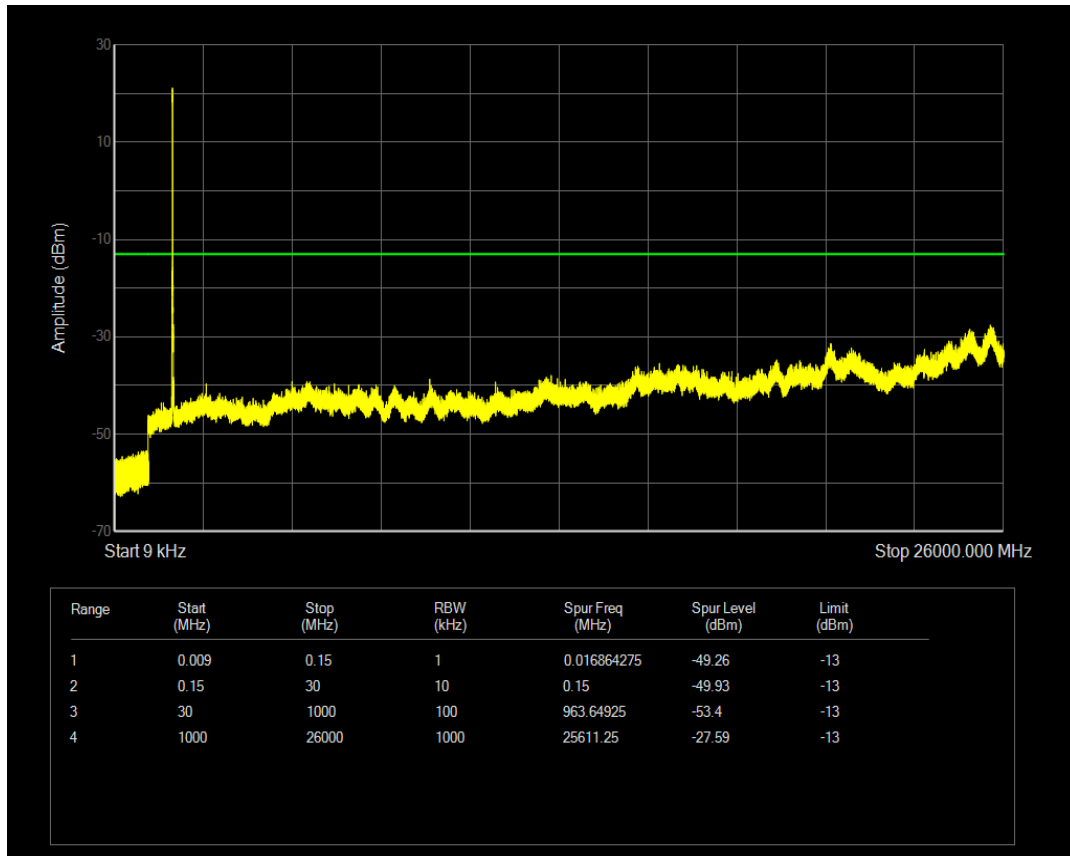
Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0



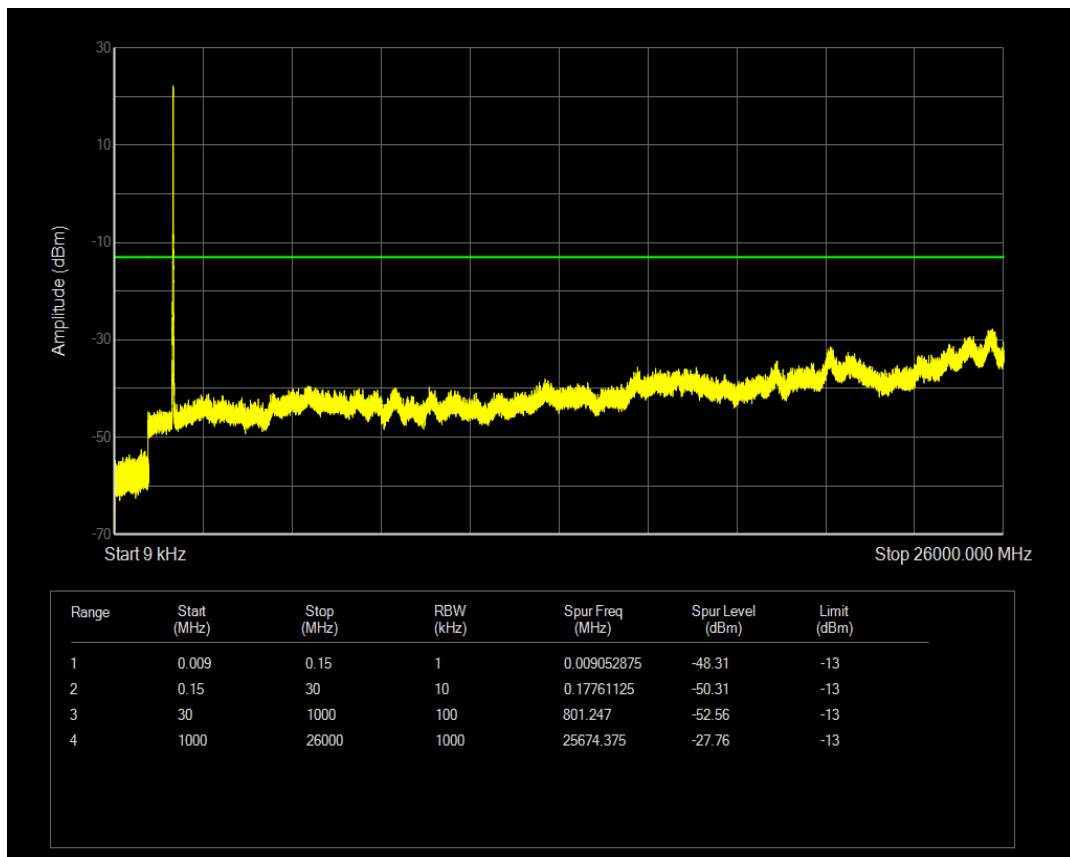
Band4 16QAM BW=5MHz Channel=20375 RB Size=25 Position=#0



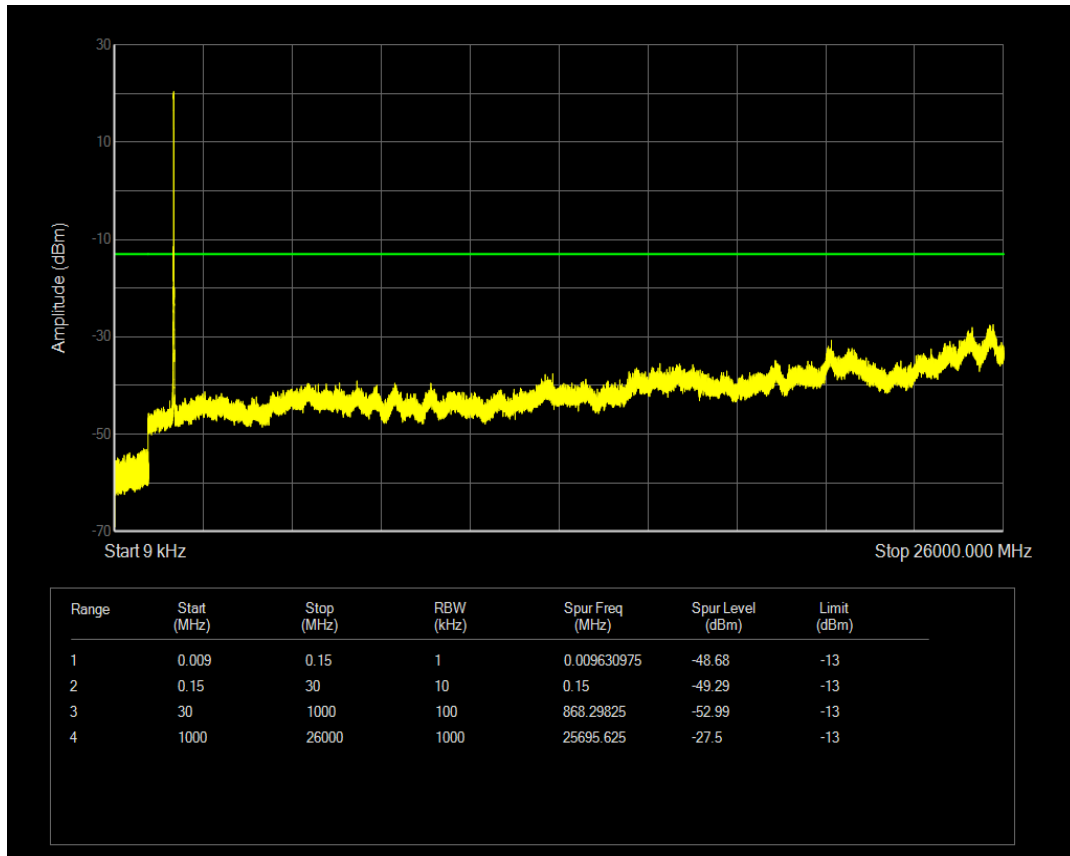
Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



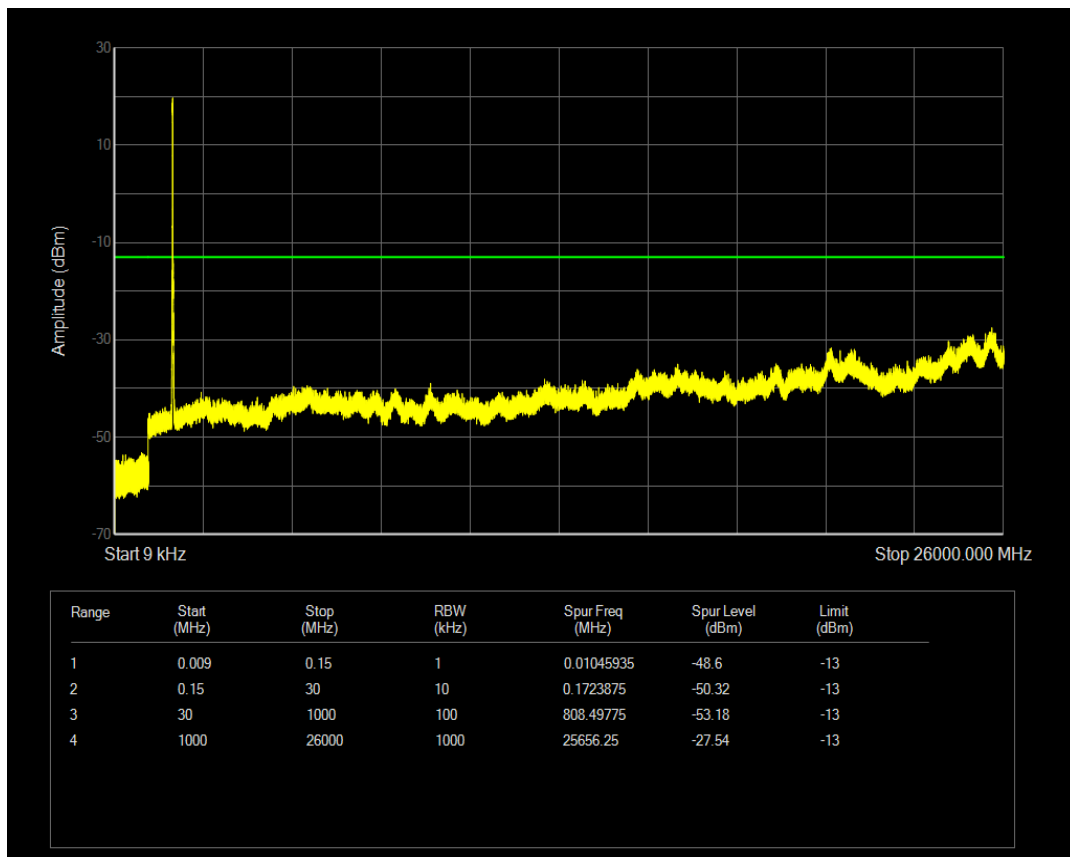
Band4 QPSK BW=10MHz Channel=20175 RB Size=50 Position=#0



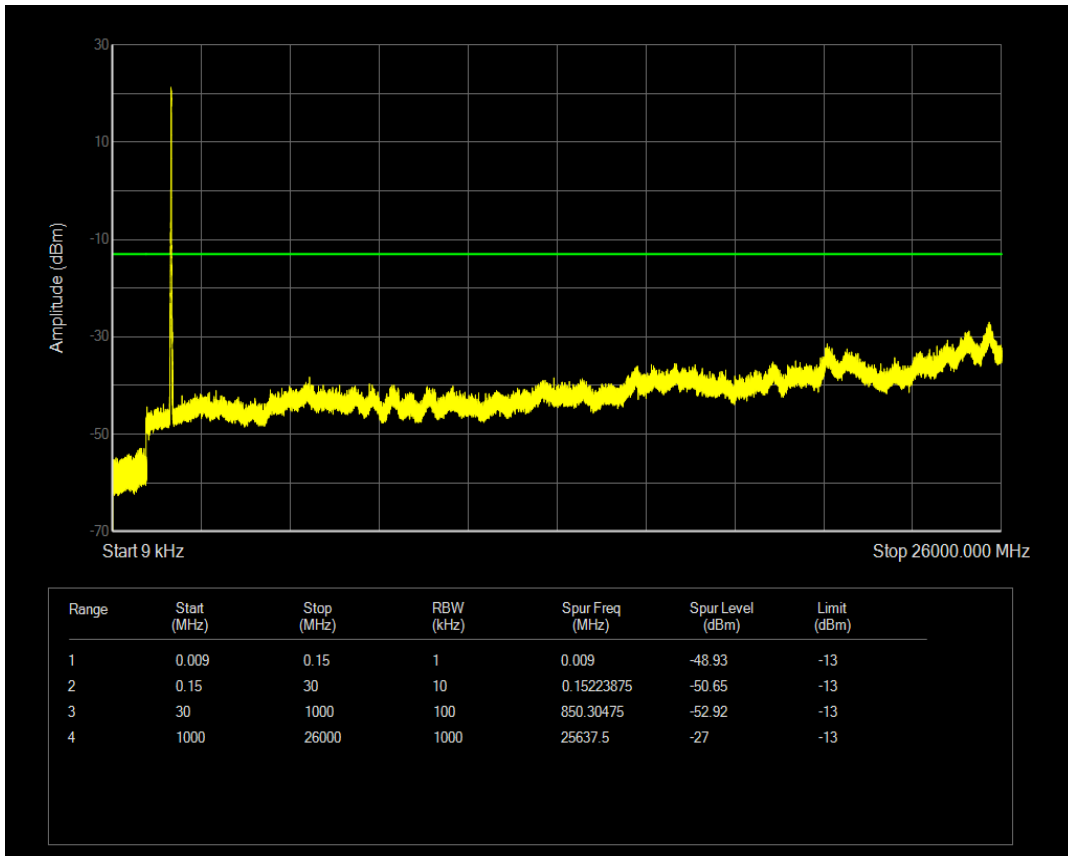
Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0



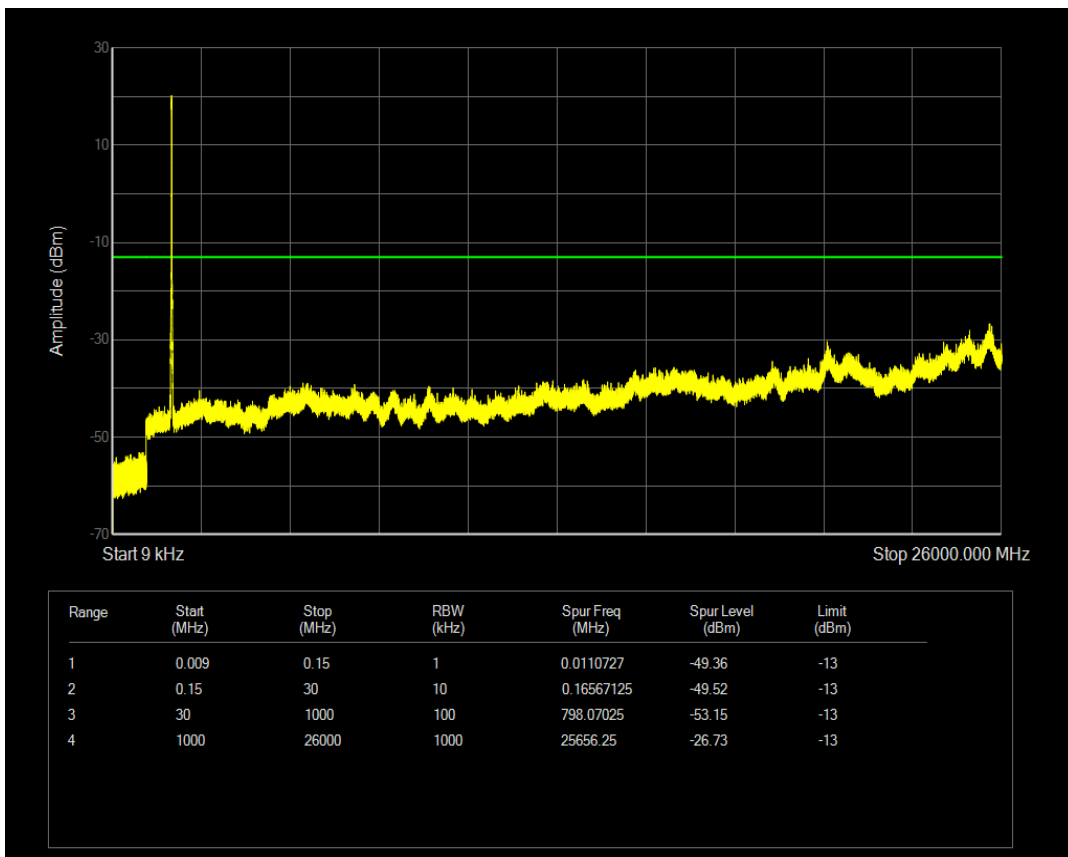
Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0



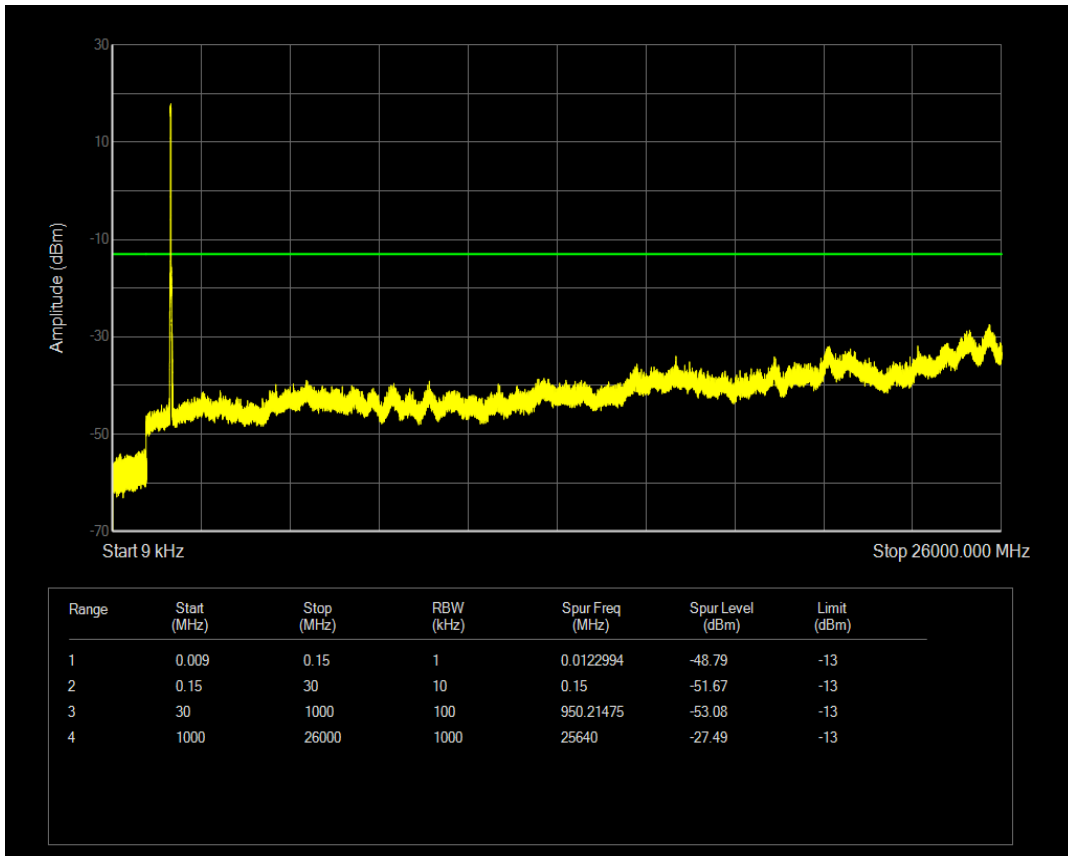
Band4 QPSK BW=15MHz Channel=20175 RB Size=75 Position=#0



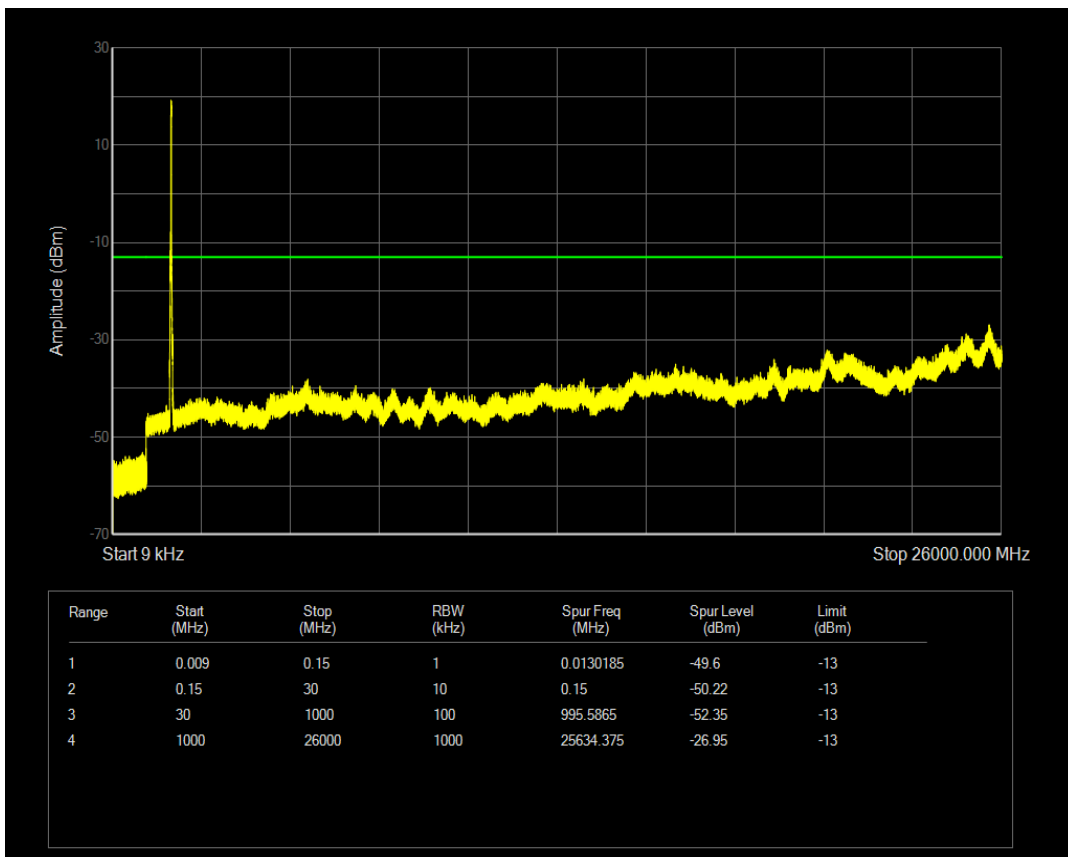
Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0



Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0



Band4 QPSK BW=20MHz Channel=20175 RB Size=100 Position=#0



Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0

