

Appendix for Band 4

Report No.: BCTC2408767493-2E

Applicant: Shenzhen Minew Technologies Co., Ltd.

Product Name: Tiny LTE Cellular Gateway

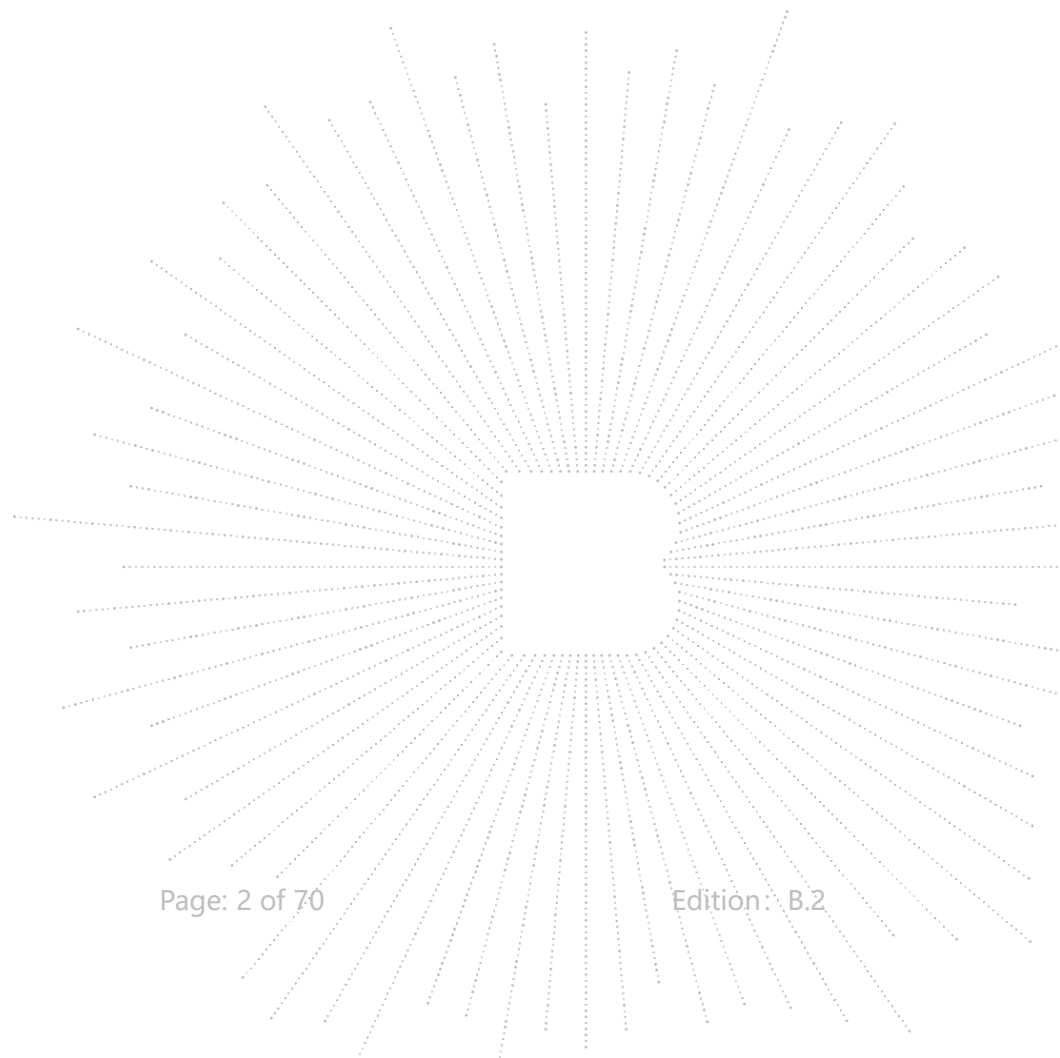
Test Model: MG8

Tested Date: 2024-08-02 to 2024-08-28

Shenzhen BCTC Testing Co., Ltd.

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

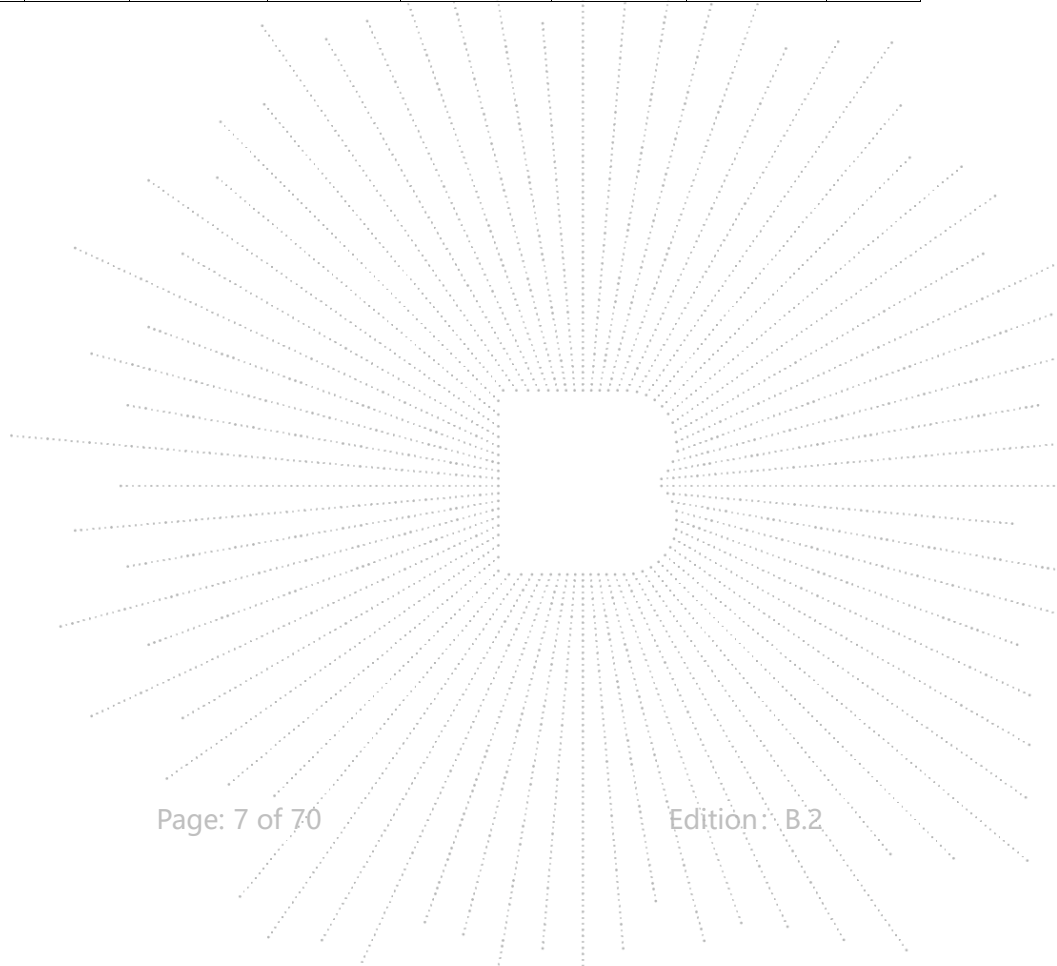
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	EIRP (dBm)	Verdict
Band4	1.4	19957	1	#0	QPSK	21.75	3.26	25.01	PASS
Band4	1.4	19957	1	#Mid	QPSK	21.80	3.26	25.06	PASS
Band4	1.4	19957	1	#Max	QPSK	21.79	3.26	25.05	PASS
Band4	1.4	19957	3	#0	QPSK	21.63	3.26	24.89	PASS
Band4	1.4	19957	3	#Mid	QPSK	21.65	3.26	24.91	PASS
Band4	1.4	19957	3	#Max	QPSK	21.71	3.26	24.97	PASS
Band4	1.4	19957	6	#0	QPSK	20.84	3.26	24.10	PASS
Band4	1.4	19957	1	#0	16QAM	20.87	3.26	24.13	PASS
Band4	1.4	19957	1	#Mid	16QAM	20.96	3.26	24.22	PASS
Band4	1.4	19957	1	#Max	16QAM	21.01	3.26	24.27	PASS
Band4	1.4	19957	3	#0	16QAM	20.81	3.26	24.07	PASS
Band4	1.4	19957	3	#Mid	16QAM	20.84	3.26	24.10	PASS
Band4	1.4	19957	3	#Max	16QAM	20.90	3.26	24.16	PASS
Band4	1.4	19957	6	#0	16QAM	19.87	3.26	23.13	PASS
Band4	1.4	20175	1	#0	QPSK	21.86	3.26	25.12	PASS
Band4	1.4	20175	1	#Mid	QPSK	21.87	3.26	25.13	PASS
Band4	1.4	20175	1	#Max	QPSK	21.80	3.26	25.06	PASS
Band4	1.4	20175	3	#0	QPSK	21.81	3.26	25.07	PASS
Band4	1.4	20175	3	#Mid	QPSK	21.80	3.26	25.06	PASS
Band4	1.4	20175	3	#Max	QPSK	21.74	3.26	25.00	PASS
Band4	1.4	20175	6	#0	QPSK	20.82	3.26	24.08	PASS
Band4	1.4	20175	1	#0	16QAM	20.98	3.26	24.24	PASS
Band4	1.4	20175	1	#Mid	16QAM	21.01	3.26	24.27	PASS
Band4	1.4	20175	1	#Max	16QAM	20.93	3.26	24.19	PASS
Band4	1.4	20175	3	#0	16QAM	21.21	3.26	24.47	PASS
Band4	1.4	20175	3	#Mid	16QAM	20.87	3.26	24.13	PASS
Band4	1.4	20175	3	#Max	16QAM	21.14	3.26	24.40	PASS
Band4	1.4	20175	6	#0	16QAM	20.60	3.26	23.86	PASS
Band4	1.4	20393	1	#0	QPSK	22.05	3.26	25.31	PASS
Band4	1.4	20393	1	#Mid	QPSK	22.14	3.26	25.40	PASS
Band4	1.4	20393	1	#Max	QPSK	22.21	3.26	25.47	PASS
Band4	1.4	20393	3	#0	QPSK	22.14	3.26	25.40	PASS
Band4	1.4	20393	3	#Mid	QPSK	22.14	3.26	25.40	PASS
Band4	1.4	20393	3	#Max	QPSK	22.16	3.26	25.42	PASS
Band4	1.4	20393	6	#0	QPSK	21.17	3.26	24.43	PASS
Band4	1.4	20393	1	#0	16QAM	21.09	3.26	24.35	PASS

Band4	1.4	20393	1	#Mid	16QAM	21.13	3.26	24.39	PASS
Band4	1.4	20393	1	#Max	16QAM	21.25	3.26	24.51	PASS
Band4	1.4	20393	3	#0	16QAM	21.48	3.26	24.74	PASS
Band4	1.4	20393	3	#Mid	16QAM	21.50	3.26	24.76	PASS
Band4	1.4	20393	3	#Max	16QAM	21.52	3.26	24.78	PASS
Band4	1.4	20393	6	#0	16QAM	20.37	3.26	23.63	PASS
Band4	3	19965	1	#0	QPSK	21.39	3.26	24.65	PASS
Band4	3	19965	1	#Mid	QPSK	22.16	3.26	25.42	PASS
Band4	3	19965	1	#Max	QPSK	22.10	3.26	25.36	PASS
Band4	3	19965	8	#0	QPSK	21.13	3.26	24.39	PASS
Band4	3	19965	8	#Mid	QPSK	21.20	3.26	24.46	PASS
Band4	3	19965	8	#Max	QPSK	21.26	3.26	24.52	PASS
Band4	3	19965	15	#0	QPSK	21.15	3.26	24.41	PASS
Band4	3	19965	1	#0	16QAM	21.37	3.26	24.63	PASS
Band4	3	19965	1	#Mid	16QAM	21.66	3.26	24.92	PASS
Band4	3	19965	1	#Max	16QAM	21.62	3.26	24.88	PASS
Band4	3	19965	8	#0	16QAM	20.16	3.26	23.42	PASS
Band4	3	19965	8	#Mid	16QAM	20.26	3.26	23.52	PASS
Band4	3	19965	8	#Max	16QAM	20.31	3.26	23.57	PASS
Band4	3	19965	15	#0	16QAM	20.23	3.26	23.49	PASS
Band4	3	20175	1	#0	QPSK	22.00	3.26	25.26	PASS
Band4	3	20175	1	#Mid	QPSK	22.08	3.26	25.34	PASS
Band4	3	20175	1	#Max	QPSK	21.73	3.26	24.99	PASS
Band4	3	20175	8	#0	QPSK	21.06	3.26	24.32	PASS
Band4	3	20175	8	#Mid	QPSK	21.05	3.26	24.31	PASS
Band4	3	20175	8	#Max	QPSK	20.95	3.26	24.21	PASS
Band4	3	20175	15	#0	QPSK	20.98	3.26	24.24	PASS
Band4	3	20175	1	#0	16QAM	21.00	3.26	24.26	PASS
Band4	3	20175	1	#Mid	16QAM	21.08	3.26	24.34	PASS
Band4	3	20175	1	#Max	16QAM	20.75	3.26	24.01	PASS
Band4	3	20175	8	#0	16QAM	20.35	3.26	23.61	PASS
Band4	3	20175	8	#Mid	16QAM	20.37	3.26	23.63	PASS
Band4	3	20175	8	#Max	16QAM	20.24	3.26	23.50	PASS
Band4	3	20175	15	#0	16QAM	20.12	3.26	23.38	PASS
Band4	3	20385	1	#0	QPSK	21.87	3.26	25.13	PASS
Band4	3	20385	1	#Mid	QPSK	22.14	3.26	25.40	PASS
Band4	3	20385	1	#Max	QPSK	22.07	3.26	25.33	PASS
Band4	3	20385	8	#0	QPSK	21.00	3.26	24.26	PASS
Band4	3	20385	8	#Mid	QPSK	21.10	3.26	24.36	PASS
Band4	3	20385	8	#Max	QPSK	21.11	3.26	24.37	PASS
Band4	3	20385	15	#0	QPSK	21.05	3.26	24.31	PASS
Band4	3	20385	1	#0	16QAM	20.99	3.26	24.25	PASS
Band4	3	20385	1	#Mid	16QAM	21.21	3.26	24.47	PASS

Band4	3	20385	1	#Max	16QAM	21.18	3.26	24.44	PASS
Band4	3	20385	8	#0	16QAM	20.11	3.26	23.37	PASS
Band4	3	20385	8	#Mid	16QAM	20.22	3.26	23.48	PASS
Band4	3	20385	8	#Max	16QAM	20.23	3.26	23.49	PASS
Band4	3	20385	15	#0	16QAM	20.25	3.26	23.51	PASS
Band4	5	19975	1	#0	QPSK	21.91	3.26	25.17	PASS
Band4	5	19975	1	#Mid	QPSK	22.09	3.26	25.35	PASS
Band4	5	19975	1	#Max	QPSK	22.29	3.26	25.55	PASS
Band4	5	19975	12	#0	QPSK	21.14	3.26	24.40	PASS
Band4	5	19975	12	#Mid	QPSK	21.23	3.26	24.49	PASS
Band4	5	19975	12	#Max	QPSK	21.37	3.26	24.63	PASS
Band4	5	19975	25	#0	QPSK	21.24	3.26	24.50	PASS
Band4	5	19975	1	#0	16QAM	21.43	3.26	24.69	PASS
Band4	5	19975	1	#Mid	16QAM	21.66	3.26	24.92	PASS
Band4	5	19975	1	#Max	16QAM	21.91	3.26	25.17	PASS
Band4	5	19975	12	#0	16QAM	20.17	3.26	23.43	PASS
Band4	5	19975	12	#Mid	16QAM	20.26	3.26	23.52	PASS
Band4	5	19975	12	#Max	16QAM	20.39	3.26	23.65	PASS
Band4	5	19975	25	#0	16QAM	20.36	3.26	23.62	PASS
Band4	5	20175	1	#0	QPSK	22.28	3.26	25.54	PASS
Band4	5	20175	1	#Mid	QPSK	22.14	3.26	25.40	PASS
Band4	5	20175	1	#Max	QPSK	21.98	3.26	25.24	PASS
Band4	5	20175	12	#0	QPSK	21.16	3.26	24.42	PASS
Band4	5	20175	12	#Mid	QPSK	21.08	3.26	24.34	PASS
Band4	5	20175	12	#Max	QPSK	20.98	3.26	24.24	PASS
Band4	5	20175	25	#0	QPSK	21.08	3.26	24.34	PASS
Band4	5	20175	1	#0	16QAM	21.54	3.26	24.80	PASS
Band4	5	20175	1	#Mid	16QAM	21.42	3.26	24.68	PASS
Band4	5	20175	1	#Max	16QAM	21.27	3.26	24.53	PASS
Band4	5	20175	12	#0	16QAM	20.35	3.26	23.61	PASS
Band4	5	20175	12	#Mid	16QAM	20.27	3.26	23.53	PASS
Band4	5	20175	12	#Max	16QAM	20.17	3.26	23.43	PASS
Band4	5	20175	25	#0	16QAM	20.30	3.26	23.56	PASS
Band4	5	20375	1	#0	QPSK	21.96	3.26	25.22	PASS
Band4	5	20375	1	#Mid	QPSK	22.08	3.26	25.34	PASS
Band4	5	20375	1	#Max	QPSK	22.40	3.26	25.66	PASS
Band4	5	20375	12	#0	QPSK	21.17	3.26	24.43	PASS
Band4	5	20375	12	#Mid	QPSK	21.24	3.26	24.50	PASS
Band4	5	20375	12	#Max	QPSK	21.31	3.26	24.57	PASS
Band4	5	20375	25	#0	QPSK	21.21	3.26	24.47	PASS
Band4	5	20375	1	#0	16QAM	21.62	3.26	24.88	PASS
Band4	5	20375	1	#Mid	16QAM	21.79	3.26	25.05	PASS
Band4	5	20375	1	#Max	16QAM	22.02	3.26	25.28	PASS

Band4	5	20375	12	#0	16QAM	20.32	3.26	23.58	PASS
Band4	5	20375	12	#Mid	16QAM	20.40	3.26	23.66	PASS
Band4	5	20375	12	#Max	16QAM	20.49	3.26	23.75	PASS
Band4	5	20375	25	#0	16QAM	20.36	3.26	23.62	PASS
Band4	10	20000	1	#0	QPSK	21.90	3.26	25.16	PASS
Band4	10	20000	1	#Mid	QPSK	22.38	3.26	25.64	PASS
Band4	10	20000	1	#Max	QPSK	22.65	3.26	25.91	PASS
Band4	10	20000	25	#0	QPSK	21.29	3.26	24.55	PASS
Band4	10	20000	25	#Mid	QPSK	21.47	3.26	24.73	PASS
Band4	10	20000	25	#Max	QPSK	21.62	3.26	24.88	PASS
Band4	10	20000	50	#0	QPSK	21.46	3.26	24.72	PASS
Band4	10	20175	1	#0	QPSK	22.58	3.26	25.84	PASS
Band4	10	20175	1	#Mid	QPSK	22.23	3.26	25.49	PASS
Band4	10	20175	1	#Max	QPSK	21.85	3.26	25.11	PASS
Band4	10	20175	25	#0	QPSK	21.29	3.26	24.55	PASS
Band4	10	20175	25	#Mid	QPSK	21.11	3.26	24.37	PASS
Band4	10	20175	25	#Max	QPSK	20.94	3.26	24.20	PASS
Band4	10	20175	50	#0	QPSK	21.12	3.26	24.38	PASS
Band4	10	20350	1	#0	QPSK	21.62	3.26	24.88	PASS
Band4	10	20350	1	#Mid	QPSK	21.93	3.26	25.19	PASS
Band4	10	20350	1	#Max	QPSK	22.41	3.26	25.67	PASS
Band4	10	20350	25	#0	QPSK	20.71	3.26	23.97	PASS
Band4	10	20350	25	#Mid	QPSK	20.95	3.26	24.21	PASS
Band4	10	20350	25	#Max	QPSK	21.30	3.26	24.56	PASS
Band4	10	20350	50	#0	QPSK	21.02	3.26	24.28	PASS
Band4	15	20025	1	#0	QPSK	22.71	3.26	25.97	PASS
Band4	15	20025	1	#Mid	QPSK	23.12	3.26	26.38	PASS
Band4	15	20025	1	#Max	QPSK	22.79	3.26	26.05	PASS
Band4	15	20025	36	#0	QPSK	21.99	3.26	25.25	PASS
Band4	15	20025	36	#Mid	QPSK	22.02	3.26	25.28	PASS
Band4	15	20025	36	#Max	QPSK	21.94	3.26	25.2	PASS
Band4	15	20025	75	#0	QPSK	21.97	3.26	25.23	PASS
Band4	15	20025	1	#0	QPSK	22.71	3.26	25.97	PASS
Band4	15	20175	1	#0	QPSK	22.82	3.26	26.08	PASS
Band4	15	20175	1	#Mid	QPSK	23.17	3.26	26.43	PASS
Band4	15	20175	1	#Max	QPSK	22.80	3.26	26.06	PASS
Band4	15	20175	36	#0	QPSK	21.90	3.26	25.16	PASS
Band4	15	20175	36	#Mid	QPSK	21.99	3.26	25.25	PASS
Band4	15	20175	36	#Max	QPSK	21.94	3.26	25.2	PASS
Band4	15	20175	75	#0	QPSK	21.96	3.26	25.22	PASS
Band4	15	20175	1	#0	QPSK	22.82	3.26	26.08	PASS
Band4	15	20175	1	#Mid	QPSK	23.17	3.26	26.43	PASS
Band4	15	20325	1	#0	QPSK	22.76	3.26	26.02	PASS

Band4	15	20325	1	#Mid	QPSK	23.23	3.26	26.49	PASS
Band4	15	20325	1	#Max	QPSK	22.77	3.26	26.03	PASS
Band4	15	20325	36	#0	QPSK	22.09	3.26	25.35	PASS
Band4	15	20325	36	#Mid	QPSK	22.12	3.26	25.38	PASS
Band4	20	20050	1	#0	QPSK	22.32	3.26	25.58	PASS
Band4	20	20050	1	#Mid	QPSK	22.91	3.26	26.17	PASS
Band4	20	20050	1	#Max	QPSK	22.61	3.26	25.87	PASS
Band4	20	20050	50	#0	QPSK	21.69	3.26	24.95	PASS
Band4	20	20050	50	#Mid	QPSK	21.99	3.26	25.25	PASS
Band4	20	20050	50	#Max	QPSK	21.88	3.26	25.14	PASS
Band4	20	20050	100	#0	QPSK	22.58	3.26	25.84	PASS
Band4	20	20175	1	#0	QPSK	22.64	3.26	25.90	PASS
Band4	20	20175	1	#Mid	QPSK	22.09	3.26	25.35	PASS
Band4	20	20175	1	#Max	QPSK	21.43	3.26	24.69	PASS
Band4	20	20175	50	#0	QPSK	21.41	3.26	24.67	PASS
Band4	20	20175	50	#Mid	QPSK	21.06	3.26	24.32	PASS
Band4	20	20175	50	#Max	QPSK	20.69	3.26	23.95	PASS
Band4	20	20175	100	#0	QPSK	21.97	3.26	25.23	PASS
Band4	20	20300	1	#0	QPSK	22.04	3.26	25.30	PASS
Band4	20	20300	1	#Mid	QPSK	21.74	3.26	25.00	PASS
Band4	20	20300	1	#Max	QPSK	22.41	3.26	25.67	PASS
Band4	20	20300	50	#0	QPSK	20.69	3.26	23.95	PASS
Band4	20	20300	50	#Mid	QPSK	20.80	3.26	24.06	PASS
Band4	20	20300	50	#Max	QPSK	21.13	3.26	24.39	PASS
Band4	20	20300	100	#0	QPSK	22.11	3.26	25.37	PASS



Appendix 2. Frequency stability

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	LV	NT	-5.11	-0.003	PASS
Band4	1.4	19957	6	#0	QPSK	NV	NT	-4.58	-0.003	PASS
Band4	1.4	19957	6	#0	QPSK	HV	NT	-5.36	-0.003	PASS
Band4	1.4	19957	6	#0	16QAM	LV	NT	-4.63	-0.003	PASS
Band4	1.4	19957	6	#0	16QAM	NV	NT	-4.79	-0.003	PASS
Band4	1.4	19957	6	#0	16QAM	HV	NT	-3.26	-0.002	PASS
Band4	1.4	20175	6	#0	QPSK	LV	NT	-3.86	-0.002	PASS
Band4	1.4	20175	6	#0	QPSK	NV	NT	-2.66	-0.002	PASS
Band4	1.4	20175	6	#0	QPSK	HV	NT	-3.93	-0.002	PASS
Band4	1.4	20175	6	#0	16QAM	LV	NT	-4.55	-0.003	PASS
Band4	1.4	20175	6	#0	16QAM	NV	NT	-1.57	-0.001	PASS
Band4	1.4	20175	6	#0	16QAM	HV	NT	-3.91	-0.002	PASS
Band4	1.4	20393	6	#0	QPSK	LV	NT	-4.61	-0.003	PASS
Band4	1.4	20393	6	#0	QPSK	NV	NT	-5.01	-0.003	PASS
Band4	1.4	20393	6	#0	QPSK	HV	NT	-4.52	-0.003	PASS
Band4	1.4	20393	6	#0	16QAM	LV	NT	-3.78	-0.002	PASS
Band4	1.4	20393	6	#0	16QAM	NV	NT	-3.59	-0.002	PASS
Band4	1.4	20393	6	#0	16QAM	HV	NT	-2.90	-0.002	PASS
Band4	3	19965	15	#0	QPSK	LV	NT	-4.38	-0.003	PASS
Band4	3	19965	15	#0	QPSK	NV	NT	-4.06	-0.002	PASS
Band4	3	19965	15	#0	QPSK	HV	NT	-3.89	-0.002	PASS
Band4	3	19965	15	#0	16QAM	LV	NT	-4.45	-0.003	PASS
Band4	3	19965	15	#0	16QAM	NV	NT	-3.48	-0.002	PASS
Band4	3	19965	15	#0	16QAM	HV	NT	-3.36	-0.002	PASS
Band4	3	20175	15	#0	QPSK	LV	NT	-1.63	-0.001	PASS
Band4	3	20175	15	#0	QPSK	NV	NT	-3.36	-0.002	PASS
Band4	3	20175	15	#0	QPSK	HV	NT	-2.13	-0.001	PASS
Band4	3	20175	15	#0	16QAM	LV	NT	-2.99	-0.002	PASS
Band4	3	20175	15	#0	16QAM	NV	NT	-2.40	-0.001	PASS
Band4	3	20175	15	#0	16QAM	HV	NT	-2.85	-0.002	PASS
Band4	3	20385	15	#0	QPSK	LV	NT	-4.06	-0.002	PASS
Band4	3	20385	15	#0	QPSK	NV	NT	-3.75	-0.002	PASS
Band4	3	20385	15	#0	QPSK	HV	NT	-4.55	-0.003	PASS
Band4	3	20385	15	#0	16QAM	LV	NT	-4.09	-0.002	PASS
Band4	3	20385	15	#0	16QAM	NV	NT	-4.73	-0.003	PASS
Band4	3	20385	15	#0	16QAM	HV	NT	-5.06	-0.003	PASS
Band4	5	19975	25	#0	QPSK	LV	NT	-2.99	-0.002	PASS
Band4	5	19975	25	#0	QPSK	NV	NT	-3.52	-0.002	PASS

Band4	5	19975	25	#0	QPSK	HV	NT	-3.71	-0.002	PASS
Band4	5	19975	25	#0	16QAM	LV	NT	-4.56	-0.003	PASS
Band4	5	19975	25	#0	16QAM	NV	NT	-2.68	-0.002	PASS
Band4	5	19975	25	#0	16QAM	HV	NT	-4.53	-0.003	PASS
Band4	5	20175	25	#0	QPSK	LV	NT	-2.60	-0.002	PASS
Band4	5	20175	25	#0	QPSK	NV	NT	-1.34	-0.001	PASS
Band4	5	20175	25	#0	QPSK	HV	NT	-2.32	-0.001	PASS
Band4	5	20175	25	#0	16QAM	LV	NT	-2.73	-0.002	PASS
Band4	5	20175	25	#0	16QAM	NV	NT	-3.08	-0.002	PASS
Band4	5	20175	25	#0	16QAM	HV	NT	-2.06	-0.001	PASS
Band4	5	20375	25	#0	QPSK	LV	NT	-3.13	-0.002	PASS
Band4	5	20375	25	#0	QPSK	NV	NT	-3.02	-0.002	PASS
Band4	5	20375	25	#0	QPSK	HV	NT	-3.50	-0.002	PASS
Band4	5	20375	25	#0	16QAM	LV	NT	-3.28	-0.002	PASS
Band4	5	20375	25	#0	16QAM	NV	NT	-4.02	-0.002	PASS
Band4	5	20375	25	#0	16QAM	HV	NT	-3.42	-0.002	PASS
Band4	10	20000	50	#0	QPSK	LV	NT	-2.86	-0.002	PASS
Band4	10	20000	50	#0	QPSK	NV	NT	-3.82	-0.002	PASS
Band4	10	20000	50	#0	QPSK	HV	NT	-3.81	-0.002	PASS
Band4	10	20175	50	#0	QPSK	LV	NT	-3.16	-0.002	PASS
Band4	10	20175	50	#0	QPSK	NV	NT	-2.27	-0.001	PASS
Band4	10	20175	50	#0	QPSK	HV	NT	-1.13	-0.001	PASS
Band4	10	20350	50	#0	QPSK	LV	NT	-2.79	-0.002	PASS
Band4	10	20350	50	#0	QPSK	NV	NT	-2.93	-0.002	PASS
Band4	10	20350	50	#0	QPSK	HV	NT	-2.36	-0.001	PASS
Band4	15	20025	75	#0	QPSK	LV	NT	-3.13	-0.002	PASS
Band4	15	20025	75	#0	QPSK	NV	NT	-2.27	-0.001	PASS
Band4	15	20025	75	#0	QPSK	HV	NT	-2.19	-0.001	PASS
Band4	15	20175	75	#0	QPSK	LV	NT	-2.60	-0.002	PASS
Band4	15	20175	75	#0	QPSK	NV	NT	-1.57	-0.001	PASS
Band4	15	20175	75	#0	QPSK	HV	NT	-1.23	-0.001	PASS
Band4	15	20325	75	#0	QPSK	LV	NT	-2.10	-0.001	PASS
Band4	15	20325	75	#0	QPSK	NV	NT	-3.66	-0.002	PASS
Band4	15	20325	75	#0	QPSK	HV	NT	-2.50	-0.001	PASS
Band4	20	20050	100	#0	QPSK	LV	NT	-1.85	-0.001	PASS
Band4	20	20050	100	#0	QPSK	NV	NT	-2.06	-0.001	PASS
Band4	20	20050	100	#0	QPSK	HV	NT	-0.96	-0.001	PASS
Band4	20	20175	100	#0	QPSK	LV	NT	-0.92	-0.001	PASS
Band4	20	20175	100	#0	QPSK	NV	NT	-1.22	-0.001	PASS
Band4	20	20175	100	#0	QPSK	HV	NT	-2.12	-0.001	PASS
Band4	20	20300	100	#0	QPSK	LV	NT	-1.83	-0.001	PASS
Band4	20	20300	100	#0	QPSK	NV	NT	-2.86	-0.002	PASS
Band4	20	20300	100	#0	QPSK	HV	NT	-2.66	-0.002	PASS

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	NV	-30	-0.60	0.000	PASS
Band4	1.4	19957	6	#0	QPSK	NV	-20	0.27	0.000	PASS
Band4	1.4	19957	6	#0	QPSK	NV	-10	0.99	0.001	PASS
Band4	1.4	19957	6	#0	QPSK	NV	0	0.87	0.001	PASS
Band4	1.4	19957	6	#0	QPSK	NV	10	-0.26	0.000	PASS
Band4	1.4	19957	6	#0	QPSK	NV	20	0.69	0.000	PASS
Band4	1.4	19957	6	#0	QPSK	NV	30	-0.41	0.000	PASS
Band4	1.4	19957	6	#0	QPSK	NV	40	0.72	0.000	PASS
Band4	1.4	19957	6	#0	QPSK	NV	50	0.84	0.000	PASS
Band4	1.4	19957	6	#0	16QAM	NV	-30	0.23	0.000	PASS
Band4	1.4	19957	6	#0	16QAM	NV	-20	0.34	0.000	PASS
Band4	1.4	19957	6	#0	16QAM	NV	-10	-0.21	0.000	PASS
Band4	1.4	19957	6	#0	16QAM	NV	0	-0.26	0.000	PASS
Band4	1.4	19957	6	#0	16QAM	NV	10	-1.33	-0.001	PASS
Band4	1.4	19957	6	#0	16QAM	NV	20	-0.83	0.000	PASS
Band4	1.4	19957	6	#0	16QAM	NV	30	0.69	0.000	PASS
Band4	1.4	19957	6	#0	16QAM	NV	40	1.26	0.001	PASS
Band4	1.4	19957	6	#0	16QAM	NV	50	0.37	0.000	PASS
Band4	1.4	20175	6	#0	QPSK	NV	-30	-0.94	-0.001	PASS
Band4	1.4	20175	6	#0	QPSK	NV	-20	-0.59	0.000	PASS
Band4	1.4	20175	6	#0	QPSK	NV	-10	-0.33	0.000	PASS
Band4	1.4	20175	6	#0	QPSK	NV	0	0.14	0.000	PASS
Band4	1.4	20175	6	#0	QPSK	NV	10	1.82	0.001	PASS
Band4	1.4	20175	6	#0	QPSK	NV	20	1.29	0.001	PASS
Band4	1.4	20175	6	#0	QPSK	NV	30	-1.67	-0.001	PASS
Band4	1.4	20175	6	#0	QPSK	NV	40	0.26	0.000	PASS
Band4	1.4	20175	6	#0	QPSK	NV	50	0.50	0.000	PASS
Band4	1.4	20175	6	#0	16QAM	NV	-30	1.20	0.001	PASS
Band4	1.4	20175	6	#0	16QAM	NV	-20	0.30	0.000	PASS
Band4	1.4	20175	6	#0	16QAM	NV	-10	0.09	0.000	PASS
Band4	1.4	20175	6	#0	16QAM	NV	0	-0.01	0.000	PASS
Band4	1.4	20175	6	#0	16QAM	NV	10	-1.00	-0.001	PASS
Band4	1.4	20175	6	#0	16QAM	NV	20	-0.51	0.000	PASS
Band4	1.4	20175	6	#0	16QAM	NV	30	0.87	0.001	PASS
Band4	1.4	20175	6	#0	16QAM	NV	40	0.19	0.000	PASS
Band4	1.4	20175	6	#0	16QAM	NV	50	-1.34	-0.001	PASS
Band4	1.4	20393	6	#0	QPSK	NV	-30	-0.53	0.000	PASS
Band4	1.4	20393	6	#0	QPSK	NV	-20	-2.03	-0.001	PASS
Band4	1.4	20393	6	#0	QPSK	NV	-10	-0.26	0.000	PASS
Band4	1.4	20393	6	#0	QPSK	NV	0	-1.90	-0.001	PASS

Band4	1.4	20393	6	#0	QPSK	NV	10	-0.97	-0.001	PASS
Band4	1.4	20393	6	#0	QPSK	NV	20	-1.52	-0.001	PASS
Band4	1.4	20393	6	#0	QPSK	NV	30	-1.14	-0.001	PASS
Band4	1.4	20393	6	#0	QPSK	NV	40	-1.95	-0.001	PASS
Band4	1.4	20393	6	#0	QPSK	NV	50	-0.10	0.000	PASS
Band4	1.4	20393	6	#0	16QAM	NV	-30	1.97	0.001	PASS
Band4	1.4	20393	6	#0	16QAM	NV	-20	1.17	0.001	PASS
Band4	1.4	20393	6	#0	16QAM	NV	-10	0.44	0.000	PASS
Band4	1.4	20393	6	#0	16QAM	NV	0	0.44	0.000	PASS
Band4	1.4	20393	6	#0	16QAM	NV	10	0.04	0.000	PASS
Band4	1.4	20393	6	#0	16QAM	NV	20	-0.94	-0.001	PASS
Band4	1.4	20393	6	#0	16QAM	NV	30	0.17	0.000	PASS
Band4	1.4	20393	6	#0	16QAM	NV	40	0.53	0.000	PASS
Band4	1.4	20393	6	#0	16QAM	NV	50	-0.53	0.000	PASS
Band4	3	19965	15	#0	QPSK	NV	-30	-1.99	-0.001	PASS
Band4	3	19965	15	#0	QPSK	NV	-20	-0.01	0.000	PASS
Band4	3	19965	15	#0	QPSK	NV	-10	0.64	0.000	PASS
Band4	3	19965	15	#0	QPSK	NV	0	-0.26	0.000	PASS
Band4	3	19965	15	#0	QPSK	NV	10	0.36	0.000	PASS
Band4	3	19965	15	#0	QPSK	NV	20	0.67	0.000	PASS
Band4	3	19965	15	#0	QPSK	NV	30	-0.73	0.000	PASS
Band4	3	19965	15	#0	QPSK	NV	40	0.41	0.000	PASS
Band4	3	19965	15	#0	QPSK	NV	50	-0.64	0.000	PASS
Band4	3	19965	15	#0	16QAM	NV	-30	1.39	0.001	PASS
Band4	3	19965	15	#0	16QAM	NV	-20	0.66	0.000	PASS
Band4	3	19965	15	#0	16QAM	NV	-10	1.26	0.001	PASS
Band4	3	19965	15	#0	16QAM	NV	0	1.07	0.001	PASS
Band4	3	19965	15	#0	16QAM	NV	10	-0.13	0.000	PASS
Band4	3	19965	15	#0	16QAM	NV	20	0.03	0.000	PASS
Band4	3	19965	15	#0	16QAM	NV	30	0.79	0.000	PASS
Band4	3	19965	15	#0	16QAM	NV	40	-0.07	0.000	PASS
Band4	3	19965	15	#0	16QAM	NV	50	-0.49	0.000	PASS
Band4	3	20175	15	#0	QPSK	NV	-30	0.41	0.000	PASS
Band4	3	20175	15	#0	QPSK	NV	-20	0.76	0.000	PASS
Band4	3	20175	15	#0	QPSK	NV	-10	0.83	0.000	PASS
Band4	3	20175	15	#0	QPSK	NV	0	0.13	0.000	PASS
Band4	3	20175	15	#0	QPSK	NV	10	0.09	0.000	PASS
Band4	3	20175	15	#0	QPSK	NV	20	1.65	0.001	PASS
Band4	3	20175	15	#0	QPSK	NV	30	1.70	0.001	PASS
Band4	3	20175	15	#0	QPSK	NV	40	-0.27	0.000	PASS
Band4	3	20175	15	#0	QPSK	NV	50	-0.24	0.000	PASS
Band4	3	20175	15	#0	16QAM	NV	-30	0.29	0.000	PASS
Band4	3	20175	15	#0	16QAM	NV	-20	0.60	0.000	PASS

Band4	3	20175	15	#0	16QAM	NV	-10	-0.13	0.000	PASS
Band4	3	20175	15	#0	16QAM	NV	0	0.20	0.000	PASS
Band4	3	20175	15	#0	16QAM	NV	10	-0.23	0.000	PASS
Band4	3	20175	15	#0	16QAM	NV	20	-0.03	0.000	PASS
Band4	3	20175	15	#0	16QAM	NV	30	-0.50	0.000	PASS
Band4	3	20175	15	#0	16QAM	NV	40	-0.67	0.000	PASS
Band4	3	20175	15	#0	16QAM	NV	50	0.27	0.000	PASS
Band4	3	20385	15	#0	QPSK	NV	-30	-0.57	0.000	PASS
Band4	3	20385	15	#0	QPSK	NV	-20	-0.90	-0.001	PASS
Band4	3	20385	15	#0	QPSK	NV	-10	0.31	0.000	PASS
Band4	3	20385	15	#0	QPSK	NV	0	0.57	0.000	PASS
Band4	3	20385	15	#0	QPSK	NV	10	0.83	0.000	PASS
Band4	3	20385	15	#0	QPSK	NV	20	0.87	0.000	PASS
Band4	3	20385	15	#0	QPSK	NV	30	0.21	0.000	PASS
Band4	3	20385	15	#0	QPSK	NV	40	-1.12	-0.001	PASS
Band4	3	20385	15	#0	QPSK	NV	50	-0.74	0.000	PASS
Band4	3	20385	15	#0	16QAM	NV	-30	0.06	0.000	PASS
Band4	3	20385	15	#0	16QAM	NV	-20	-0.27	0.000	PASS
Band4	3	20385	15	#0	16QAM	NV	-10	-0.64	0.000	PASS
Band4	3	20385	15	#0	16QAM	NV	0	-1.40	-0.001	PASS
Band4	3	20385	15	#0	16QAM	NV	10	-0.93	-0.001	PASS
Band4	3	20385	15	#0	16QAM	NV	20	-0.60	0.000	PASS
Band4	3	20385	15	#0	16QAM	NV	30	-0.17	0.000	PASS
Band4	3	20385	15	#0	16QAM	NV	40	-1.83	-0.001	PASS
Band4	3	20385	15	#0	16QAM	NV	50	1.10	0.001	PASS
Band4	5	19975	25	#0	QPSK	NV	-30	-1.10	-0.001	PASS
Band4	5	19975	25	#0	QPSK	NV	-20	0.51	0.000	PASS
Band4	5	19975	25	#0	QPSK	NV	-10	0.54	0.000	PASS
Band4	5	19975	25	#0	QPSK	NV	0	0.79	0.000	PASS
Band4	5	19975	25	#0	QPSK	NV	10	-0.13	0.000	PASS
Band4	5	19975	25	#0	QPSK	NV	20	-1.14	-0.001	PASS
Band4	5	19975	25	#0	QPSK	NV	30	0.87	0.001	PASS
Band4	5	19975	25	#0	QPSK	NV	40	0.27	0.000	PASS
Band4	5	19975	25	#0	QPSK	NV	50	0.96	0.001	PASS
Band4	5	19975	25	#0	16QAM	NV	-30	0.14	0.000	PASS
Band4	5	19975	25	#0	16QAM	NV	-20	-0.26	0.000	PASS
Band4	5	19975	25	#0	16QAM	NV	-10	-0.60	0.000	PASS
Band4	5	19975	25	#0	16QAM	NV	0	0.29	0.000	PASS
Band4	5	19975	25	#0	16QAM	NV	10	-1.12	-0.001	PASS
Band4	5	19975	25	#0	16QAM	NV	20	1.16	0.001	PASS
Band4	5	19975	25	#0	16QAM	NV	30	-1.04	-0.001	PASS
Band4	5	19975	25	#0	16QAM	NV	40	-0.80	0.000	PASS
Band4	5	19975	25	#0	16QAM	NV	50	0.16	0.000	PASS

Band4	5	20175	25	#0	QPSK	NV	-30	0.07	0.000	PASS
Band4	5	20175	25	#0	QPSK	NV	-20	0.30	0.000	PASS
Band4	5	20175	25	#0	QPSK	NV	-10	-0.53	0.000	PASS
Band4	5	20175	25	#0	QPSK	NV	0	0.44	0.000	PASS
Band4	5	20175	25	#0	QPSK	NV	10	1.97	0.001	PASS
Band4	5	20175	25	#0	QPSK	NV	20	0.30	0.000	PASS
Band4	5	20175	25	#0	QPSK	NV	30	1.59	0.001	PASS
Band4	5	20175	25	#0	QPSK	NV	40	-0.20	0.000	PASS
Band4	5	20175	25	#0	QPSK	NV	50	-0.77	0.000	PASS
Band4	5	20175	25	#0	16QAM	NV	-30	1.47	0.001	PASS
Band4	5	20175	25	#0	16QAM	NV	-20	0.11	0.000	PASS
Band4	5	20175	25	#0	16QAM	NV	-10	0.10	0.000	PASS
Band4	5	20175	25	#0	16QAM	NV	0	0.14	0.000	PASS
Band4	5	20175	25	#0	16QAM	NV	10	-0.82	0.000	PASS
Band4	5	20175	25	#0	16QAM	NV	20	-0.60	0.000	PASS
Band4	5	20175	25	#0	16QAM	NV	30	-0.23	0.000	PASS
Band4	5	20175	25	#0	16QAM	NV	40	-0.11	0.000	PASS
Band4	5	20175	25	#0	16QAM	NV	50	-0.23	0.000	PASS
Band4	5	20375	25	#0	QPSK	NV	-30	-1.06	-0.001	PASS
Band4	5	20375	25	#0	QPSK	NV	-20	0.63	0.000	PASS
Band4	5	20375	25	#0	QPSK	NV	-10	0.67	0.000	PASS
Band4	5	20375	25	#0	QPSK	NV	0	-0.06	0.000	PASS
Band4	5	20375	25	#0	QPSK	NV	10	0.64	0.000	PASS
Band4	5	20375	25	#0	QPSK	NV	20	0.26	0.000	PASS
Band4	5	20375	25	#0	QPSK	NV	30	0.31	0.000	PASS
Band4	5	20375	25	#0	QPSK	NV	40	0.93	0.001	PASS
Band4	5	20375	25	#0	QPSK	NV	50	-0.19	0.000	PASS
Band4	5	20375	25	#0	16QAM	NV	-30	0.51	0.000	PASS
Band4	5	20375	25	#0	16QAM	NV	-20	1.50	0.001	PASS
Band4	5	20375	25	#0	16QAM	NV	-10	-0.84	0.000	PASS
Band4	5	20375	25	#0	16QAM	NV	0	-0.20	0.000	PASS
Band4	5	20375	25	#0	16QAM	NV	10	-0.90	-0.001	PASS
Band4	5	20375	25	#0	16QAM	NV	20	-0.33	0.000	PASS
Band4	5	20375	25	#0	16QAM	NV	30	0.60	0.000	PASS
Band4	5	20375	25	#0	16QAM	NV	40	0.34	0.000	PASS
Band4	5	20375	25	#0	16QAM	NV	50	0.76	0.000	PASS
Band4	10	20000	50	#0	QPSK	NV	-30	-2.02	-0.001	PASS
Band4	10	20000	50	#0	QPSK	NV	-20	-0.93	-0.001	PASS
Band4	10	20000	50	#0	QPSK	NV	-10	0.03	0.000	PASS
Band4	10	20000	50	#0	QPSK	NV	0	0.27	0.000	PASS
Band4	10	20000	50	#0	QPSK	NV	10	0.09	0.000	PASS
Band4	10	20000	50	#0	QPSK	NV	20	0.56	0.000	PASS
Band4	10	20000	50	#0	QPSK	NV	30	0.04	0.000	PASS

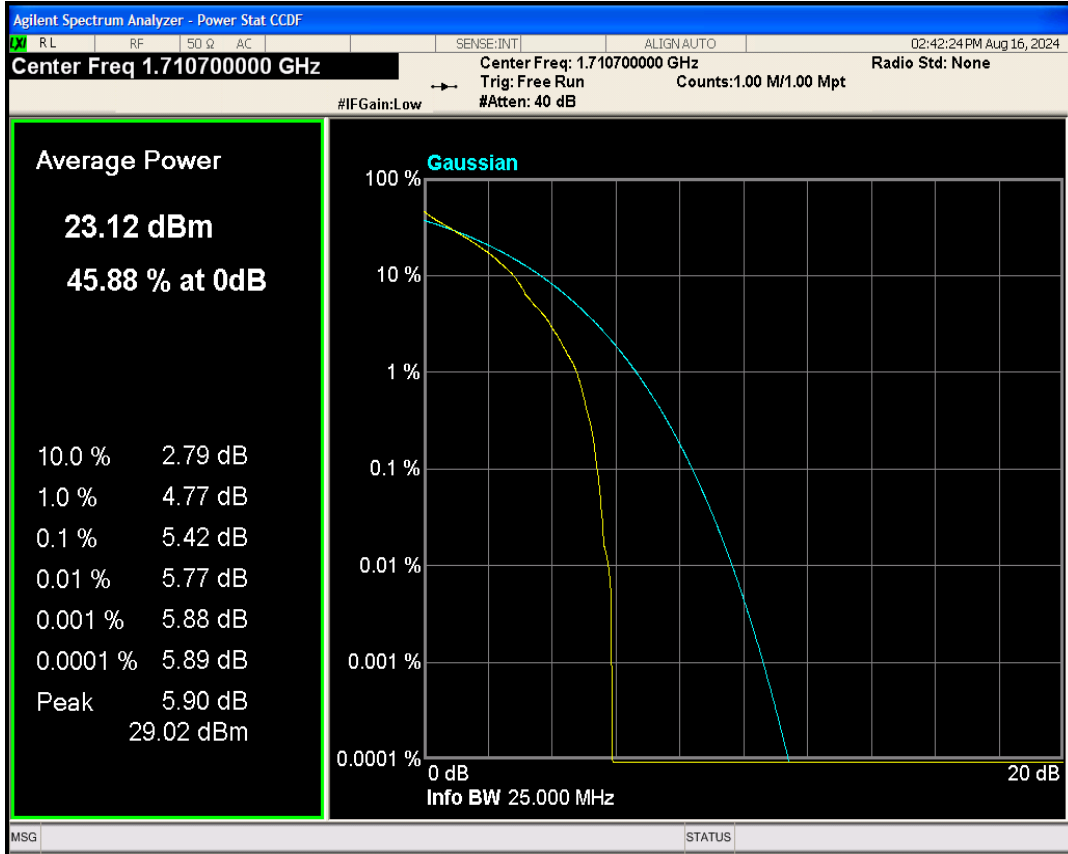
Band4	10	20000	50	#0	QPSK	NV	40	1.17	0.001	PASS
Band4	10	20000	50	#0	QPSK	NV	50	0.16	0.000	PASS
Band4	10	20175	50	#0	QPSK	NV	-30	-0.26	0.000	PASS
Band4	10	20175	50	#0	QPSK	NV	-20	-0.70	0.000	PASS
Band4	10	20175	50	#0	QPSK	NV	-10	1.57	0.001	PASS
Band4	10	20175	50	#0	QPSK	NV	0	-0.23	0.000	PASS
Band4	10	20175	50	#0	QPSK	NV	10	1.24	0.001	PASS
Band4	10	20175	50	#0	QPSK	NV	20	-0.07	0.000	PASS
Band4	10	20175	50	#0	QPSK	NV	30	1.69	0.001	PASS
Band4	10	20175	50	#0	QPSK	NV	40	0.14	0.000	PASS
Band4	10	20175	50	#0	QPSK	NV	50	0.67	0.000	PASS
Band4	10	20350	50	#0	QPSK	NV	-30	0.87	0.000	PASS
Band4	10	20350	50	#0	QPSK	NV	-20	0.74	0.000	PASS
Band4	10	20350	50	#0	QPSK	NV	-10	0.59	0.000	PASS
Band4	10	20350	50	#0	QPSK	NV	0	0.04	0.000	PASS
Band4	10	20350	50	#0	QPSK	NV	10	2.10	0.001	PASS
Band4	10	20350	50	#0	QPSK	NV	20	1.33	0.001	PASS
Band4	10	20350	50	#0	QPSK	NV	30	0.73	0.000	PASS
Band4	10	20350	50	#0	QPSK	NV	40	-0.09	0.000	PASS
Band4	10	20350	50	#0	QPSK	NV	50	1.34	0.001	PASS
Band4	15	20025	75	#0	QPSK	NV	-30	-1.20	-0.001	PASS
Band4	15	20025	75	#0	QPSK	NV	-20	0.64	0.000	PASS
Band4	15	20025	75	#0	QPSK	NV	-10	0.86	0.001	PASS
Band4	15	20025	75	#0	QPSK	NV	0	1.34	0.001	PASS
Band4	15	20025	75	#0	QPSK	NV	10	-0.03	0.000	PASS
Band4	15	20025	75	#0	QPSK	NV	20	-0.09	0.000	PASS
Band4	15	20025	75	#0	QPSK	NV	30	0.73	0.000	PASS
Band4	15	20025	75	#0	QPSK	NV	40	1.03	0.001	PASS
Band4	15	20025	75	#0	QPSK	NV	50	0.63	0.000	PASS
Band4	15	20175	75	#0	QPSK	NV	-30	1.59	0.001	PASS
Band4	15	20175	75	#0	QPSK	NV	-20	0.62	0.000	PASS
Band4	15	20175	75	#0	QPSK	NV	-10	0.21	0.000	PASS
Band4	15	20175	75	#0	QPSK	NV	0	0.41	0.000	PASS
Band4	15	20175	75	#0	QPSK	NV	10	1.59	0.001	PASS
Band4	15	20175	75	#0	QPSK	NV	20	-0.36	0.000	PASS
Band4	15	20175	75	#0	QPSK	NV	30	0.51	0.000	PASS
Band4	15	20175	75	#0	QPSK	NV	40	1.27	0.001	PASS
Band4	15	20175	75	#0	QPSK	NV	50	1.24	0.001	PASS
Band4	15	20325	75	#0	QPSK	NV	-30	0.13	0.000	PASS
Band4	15	20325	75	#0	QPSK	NV	-20	0.62	0.000	PASS
Band4	15	20325	75	#0	QPSK	NV	-10	0.40	0.000	PASS
Band4	15	20325	75	#0	QPSK	NV	0	0.37	0.000	PASS
Band4	15	20325	75	#0	QPSK	NV	10	0.11	0.000	PASS

Band4	15	20325	75	#0	QPSK	NV	20	0.63	0.000	PASS
Band4	15	20325	75	#0	QPSK	NV	30	-0.87	0.000	PASS
Band4	15	20325	75	#0	QPSK	NV	40	0.87	0.000	PASS
Band4	15	20325	75	#0	QPSK	NV	50	-0.72	0.000	PASS
Band4	20	20050	100	#0	QPSK	NV	-30	-1.52	-0.001	PASS
Band4	20	20050	100	#0	QPSK	NV	-20	0.34	0.000	PASS
Band4	20	20050	100	#0	QPSK	NV	-10	-0.30	0.000	PASS
Band4	20	20050	100	#0	QPSK	NV	0	-0.86	-0.001	PASS
Band4	20	20050	100	#0	QPSK	NV	10	-1.02	-0.001	PASS
Band4	20	20050	100	#0	QPSK	NV	20	-0.46	0.000	PASS
Band4	20	20050	100	#0	QPSK	NV	30	-0.13	0.000	PASS
Band4	20	20050	100	#0	QPSK	NV	40	-0.44	0.000	PASS
Band4	20	20050	100	#0	QPSK	NV	50	0.74	0.000	PASS
Band4	20	20175	100	#0	QPSK	NV	-30	-0.39	0.000	PASS
Band4	20	20175	100	#0	QPSK	NV	-20	0.09	0.000	PASS
Band4	20	20175	100	#0	QPSK	NV	-10	-0.86	0.000	PASS
Band4	20	20175	100	#0	QPSK	NV	0	-0.01	0.000	PASS
Band4	20	20175	100	#0	QPSK	NV	10	-0.03	0.000	PASS
Band4	20	20175	100	#0	QPSK	NV	20	0.23	0.000	PASS
Band4	20	20175	100	#0	QPSK	NV	30	0.06	0.000	PASS
Band4	20	20175	100	#0	QPSK	NV	40	0.41	0.000	PASS
Band4	20	20175	100	#0	QPSK	NV	50	0.47	0.000	PASS
Band4	20	20300	100	#0	QPSK	NV	-30	0.77	0.000	PASS
Band4	20	20300	100	#0	QPSK	NV	-20	0.60	0.000	PASS
Band4	20	20300	100	#0	QPSK	NV	-10	1.42	0.001	PASS
Band4	20	20300	100	#0	QPSK	NV	0	0.99	0.001	PASS
Band4	20	20300	100	#0	QPSK	NV	10	0.40	0.000	PASS
Band4	20	20300	100	#0	QPSK	NV	20	1.37	0.001	PASS
Band4	20	20300	100	#0	QPSK	NV	30	0.64	0.000	PASS
Band4	20	20300	100	#0	QPSK	NV	40	1.52	0.001	PASS
Band4	20	20300	100	#0	QPSK	NV	50	1.62	0.001	PASS

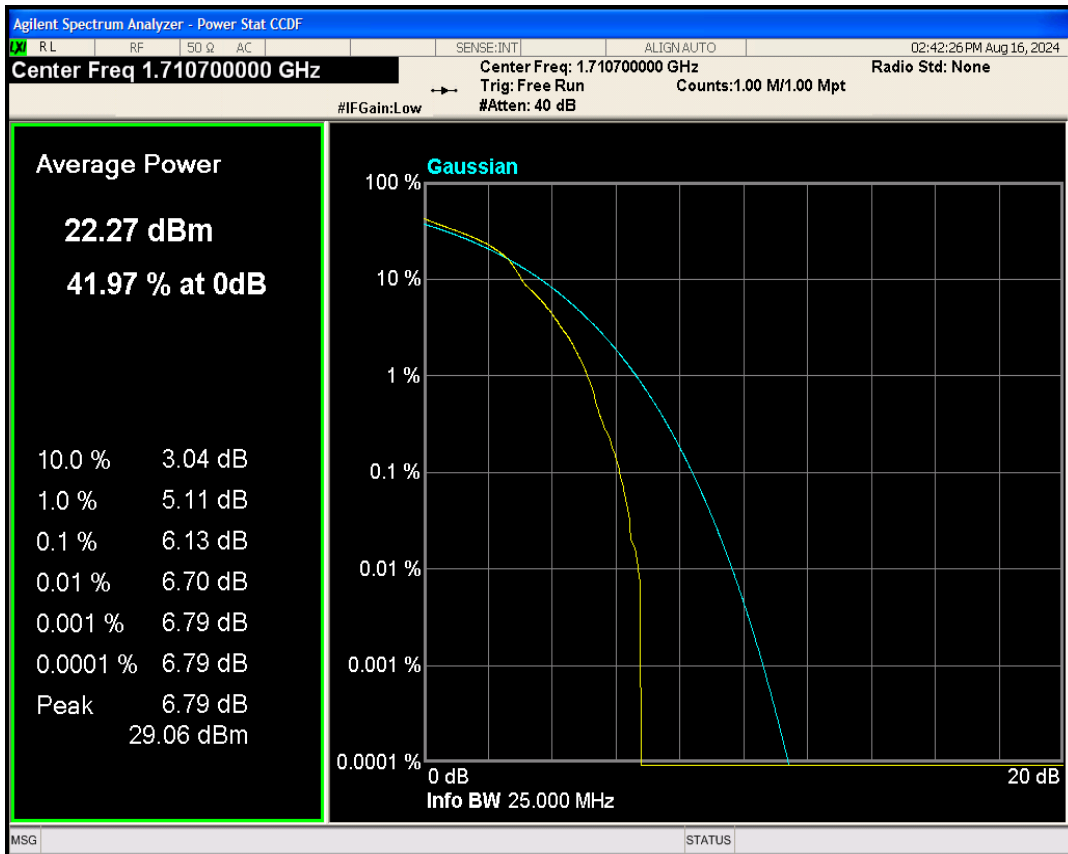
Appendix 3. Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band4	1.4	19957	1	#0	QPSK	5.42	13	PASS
Band4	1.4	19957	1	#0	16QAM	6.13	13	PASS
Band4	1.4	20175	1	#0	QPSK	5.24	13	PASS
Band4	1.4	20175	1	#0	16QAM	5.94	13	PASS
Band4	1.4	20393	1	#0	QPSK	5.34	13	PASS
Band4	1.4	20393	1	#0	16QAM	6.02	13	PASS
Band4	3	19965	1	#0	QPSK	5.40	13	PASS
Band4	3	19965	1	#0	16QAM	6.33	13	PASS
Band4	3	20175	1	#0	QPSK	5.11	13	PASS
Band4	3	20175	1	#0	16QAM	5.82	13	PASS
Band4	3	20385	1	#0	QPSK	5.49	13	PASS
Band4	3	20385	1	#0	16QAM	6.22	13	PASS
Band4	5	19975	1	#0	QPSK	5.23	13	PASS
Band4	5	19975	1	#0	16QAM	6.34	13	PASS
Band4	5	20175	1	#0	QPSK	5.04	13	PASS
Band4	5	20175	1	#0	16QAM	5.72	13	PASS
Band4	5	20375	1	#0	QPSK	5.69	13	PASS
Band4	5	20375	1	#0	16QAM	5.98	13	PASS
Band4	10	20000	1	#0	QPSK	5.32	13	PASS
Band4	10	20175	1	#0	QPSK	4.51	13	PASS
Band4	10	20350	1	#0	QPSK	5.56	13	PASS
Band4	15	20025	1	#0	QPSK	5.34	13	PASS
Band4	15	20175	1	#0	QPSK	4.49	13	PASS
Band4	15	20325	1	#0	QPSK	5.73	13	PASS
Band4	20	20050	1	#0	QPSK	5.42	13	PASS
Band4	20	20175	1	#0	QPSK	4.70	13	PASS
Band4	20	20300	1	#0	QPSK	5.72	13	PASS

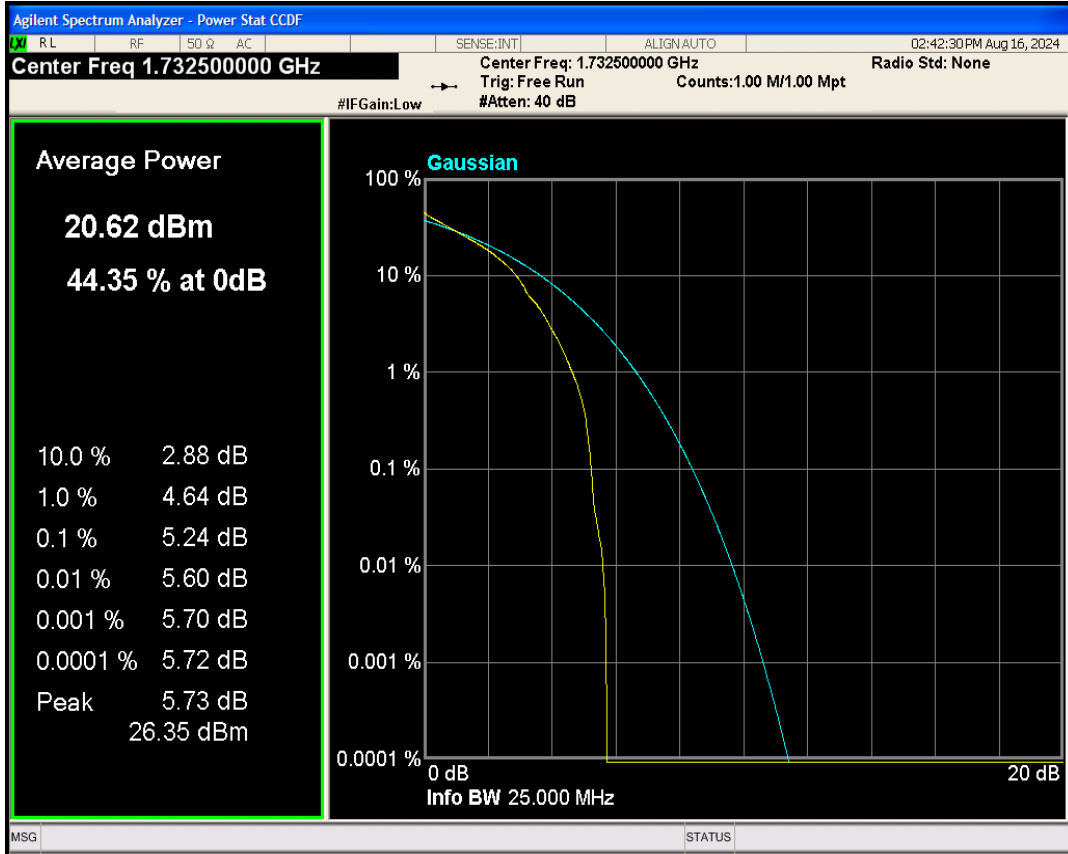
Band4 QPSK BW=1.4MHz Channel=19957 RB Size=1 Position=#0



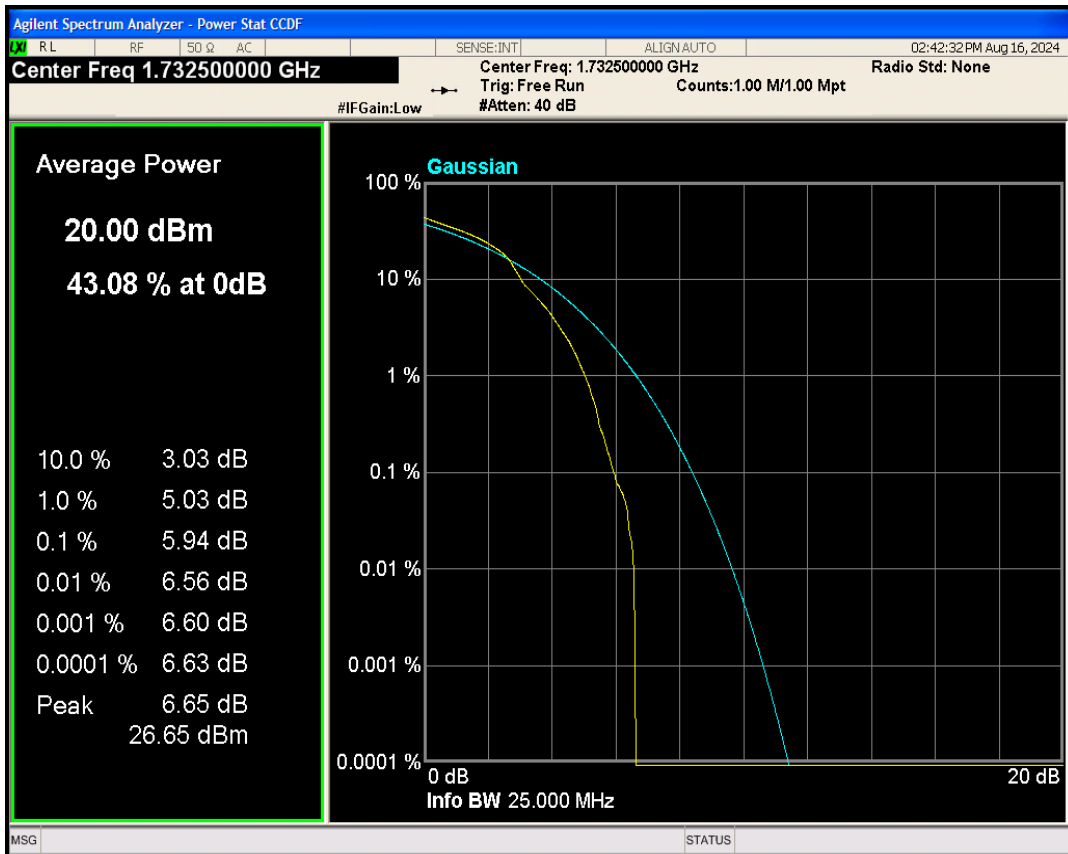
Band4 16QAM BW=1.4MHz Channel=19957 RB Size=1 Position=#0



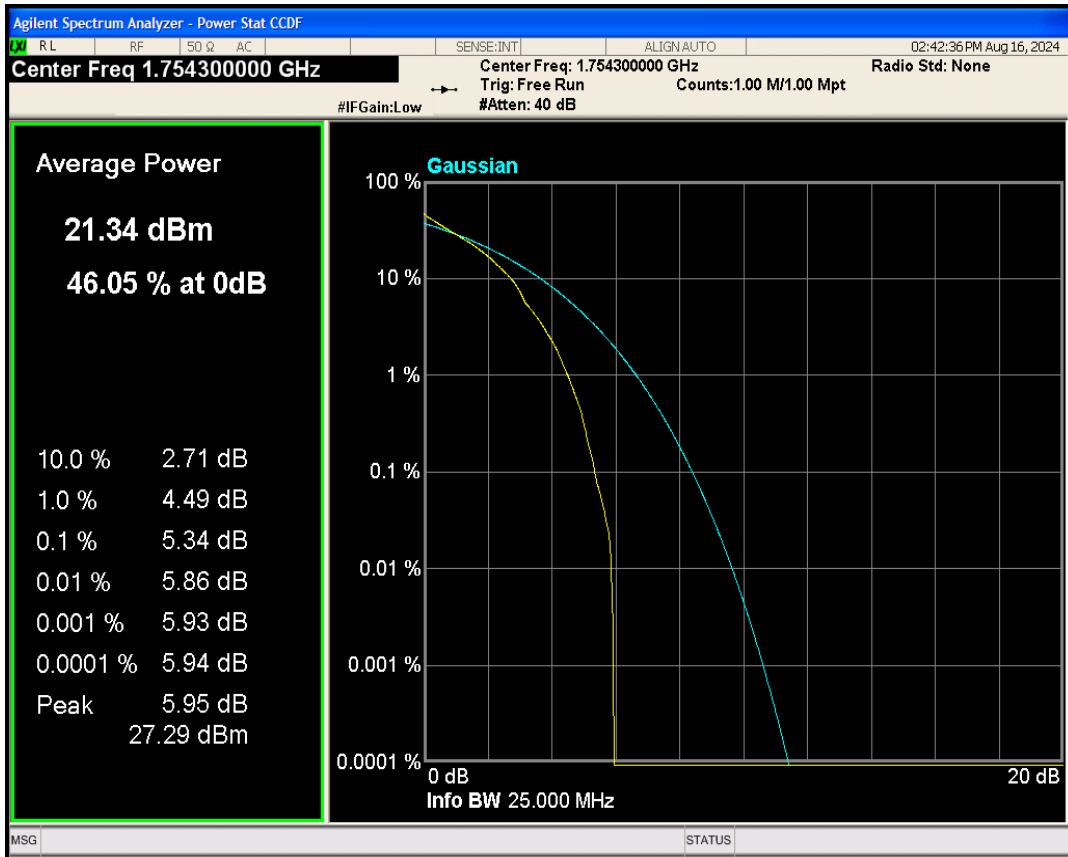
Band4 QPSK BW=1.4MHz Channel=20175 RB Size=1 Position=#0



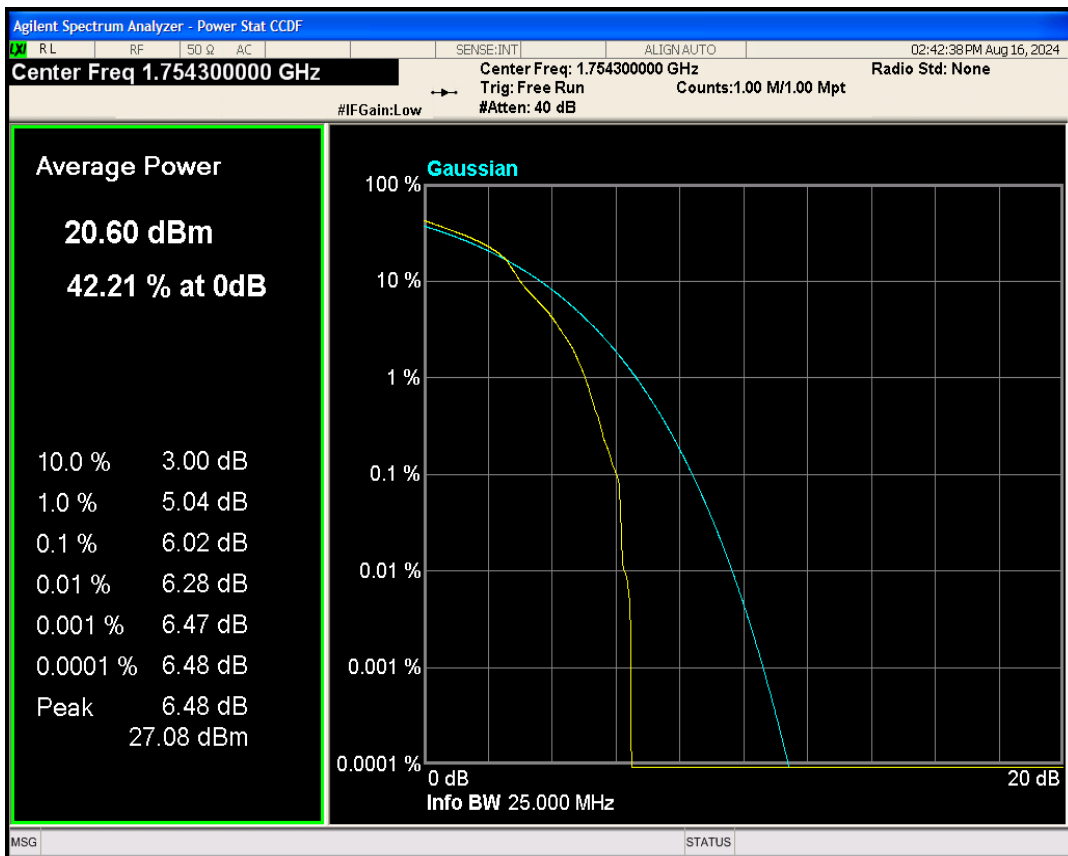
Band4 16QAM BW=1.4MHz Channel=20175 RB Size=1 Position=#0



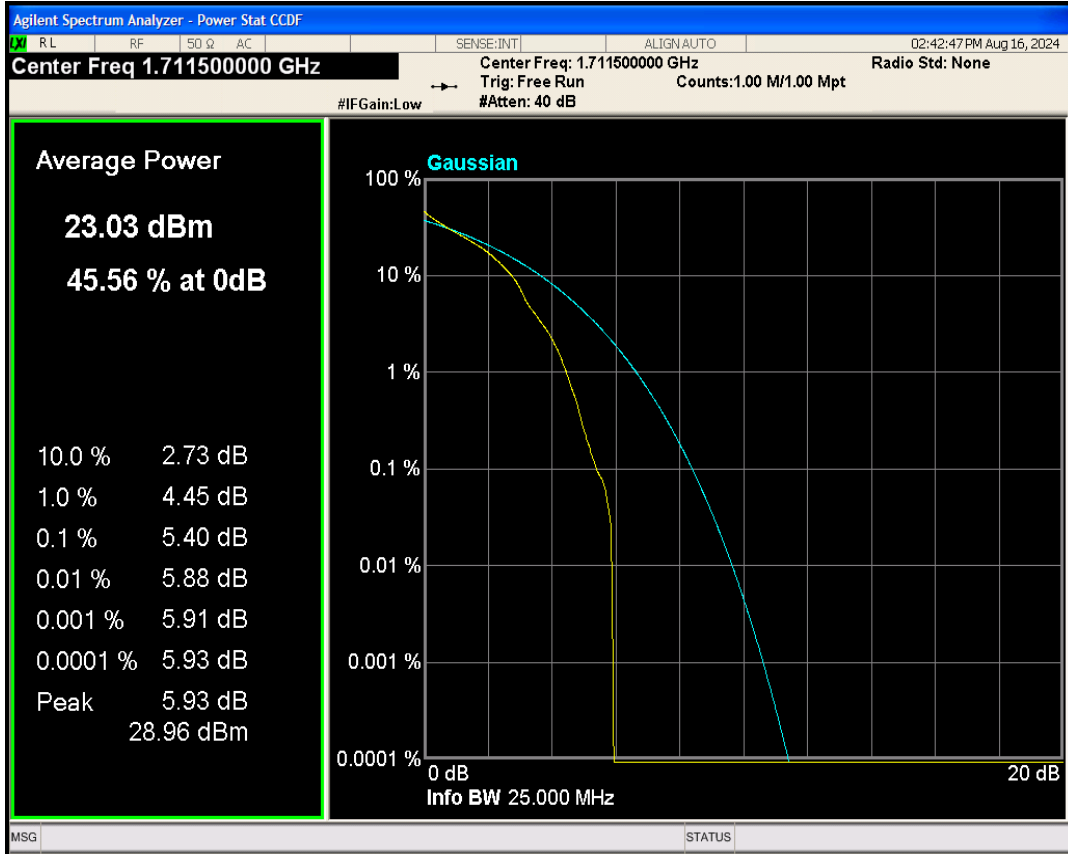
Band4 QPSK BW=1.4MHz Channel=20393 RB Size=1 Position=#0



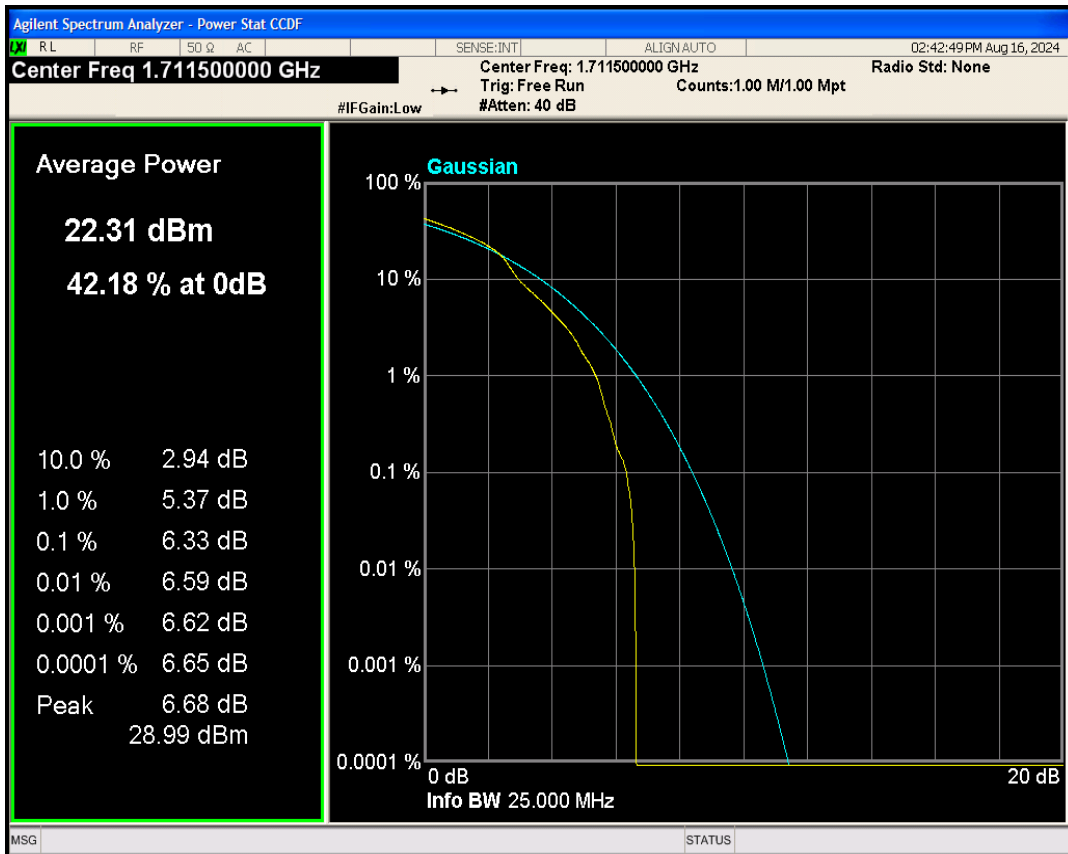
Band4 16QAM BW=1.4MHz Channel=20393 RB Size=1 Position=#0



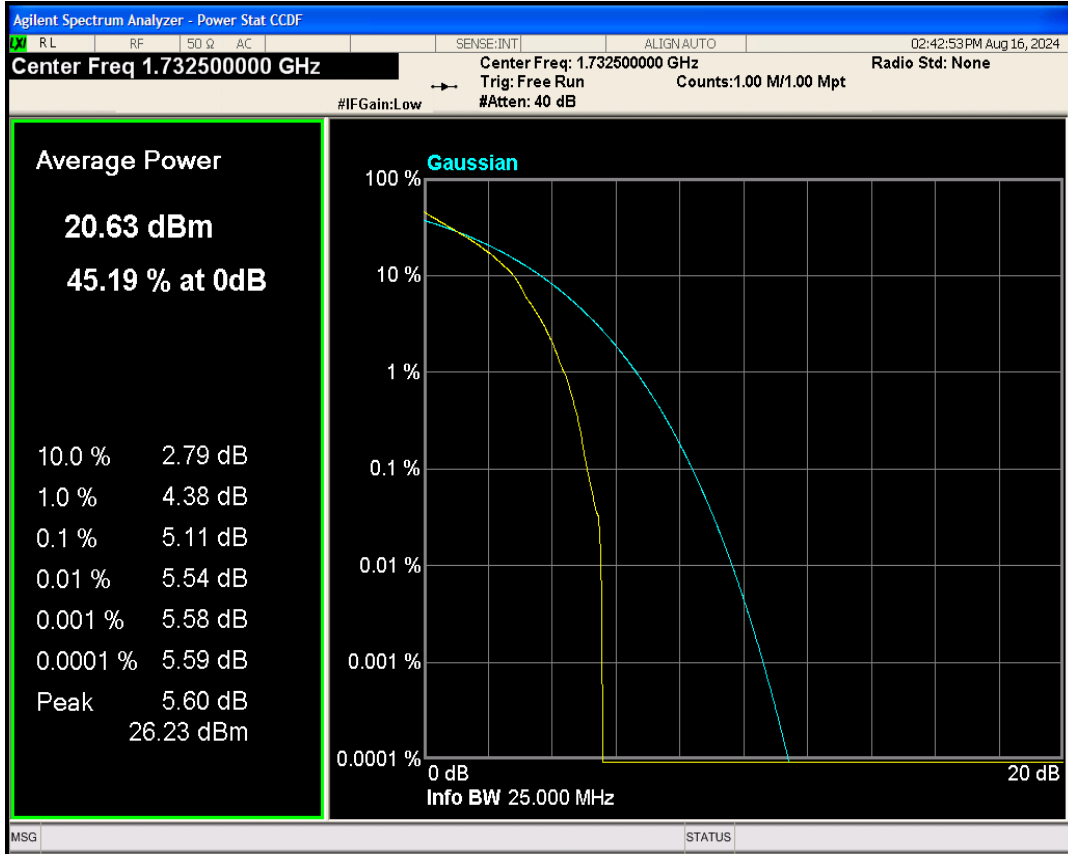
Band4 QPSK BW=3MHz Channel=19965 RB Size=1 Position=#0



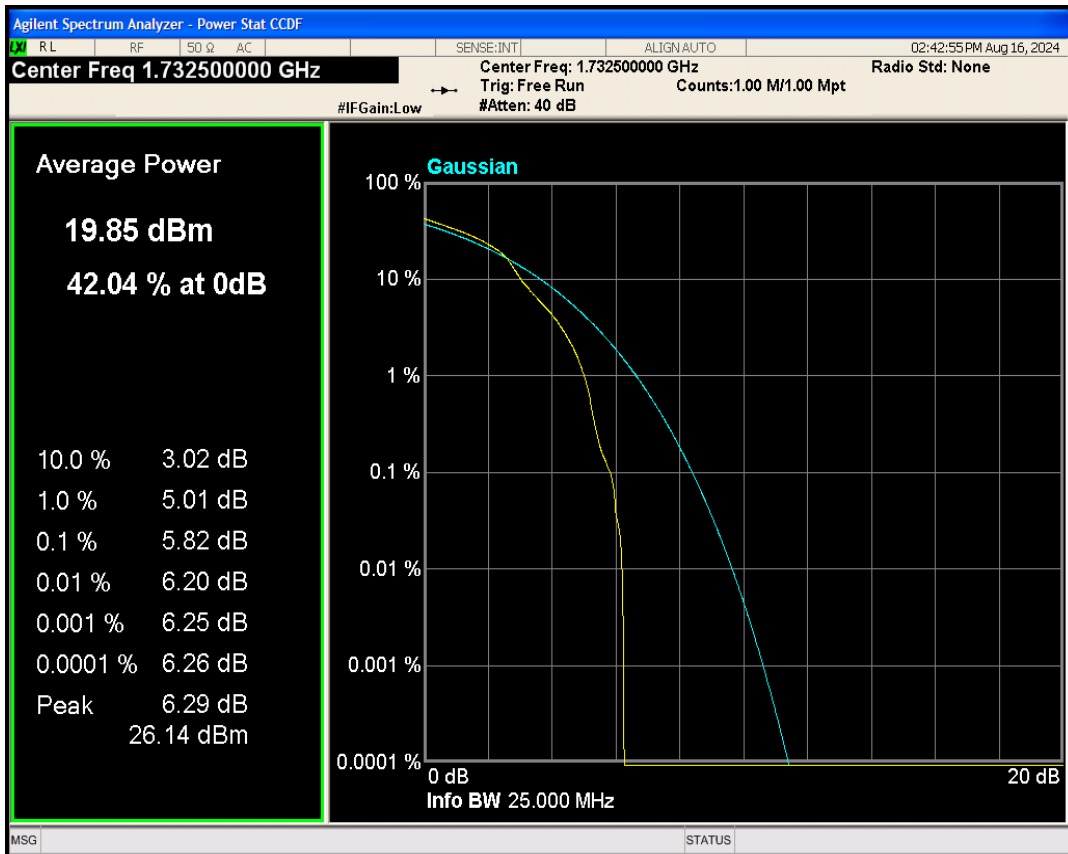
Band4 16QAM BW=3MHz Channel=19965 RB Size=1 Position=#0



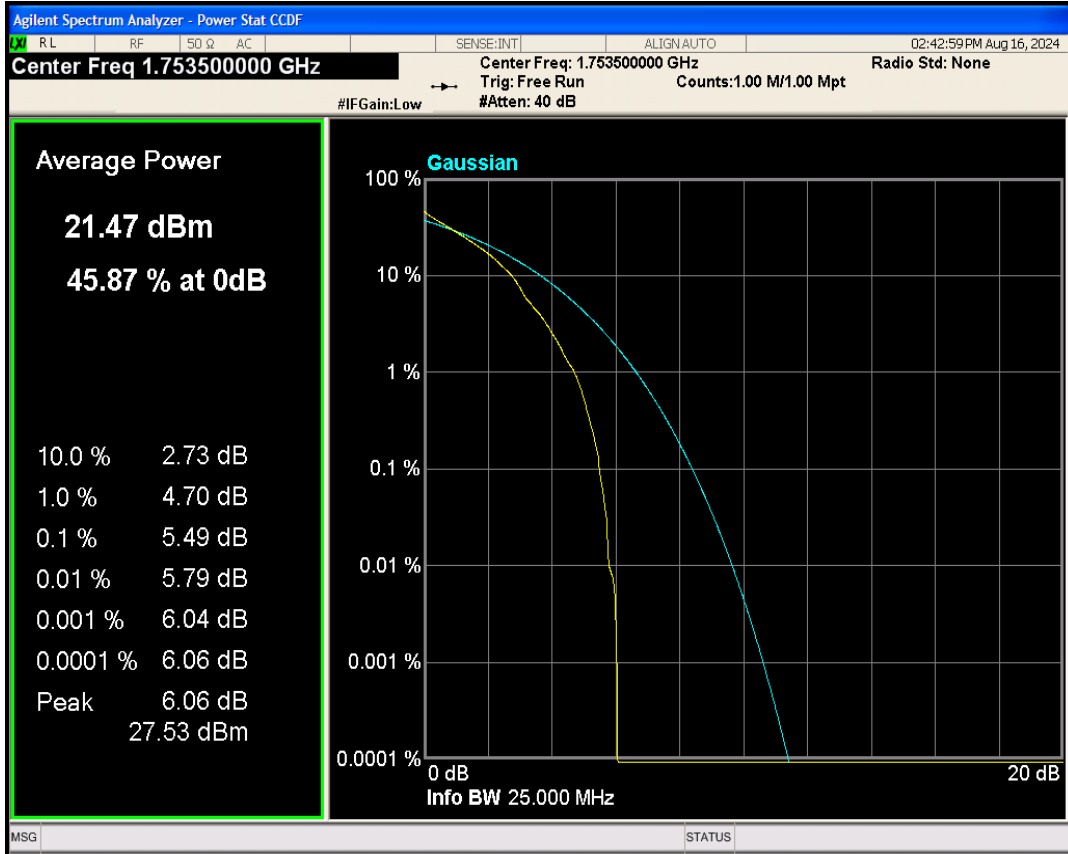
Band4 QPSK BW=3MHz Channel=20175 RB Size=1 Position=#0



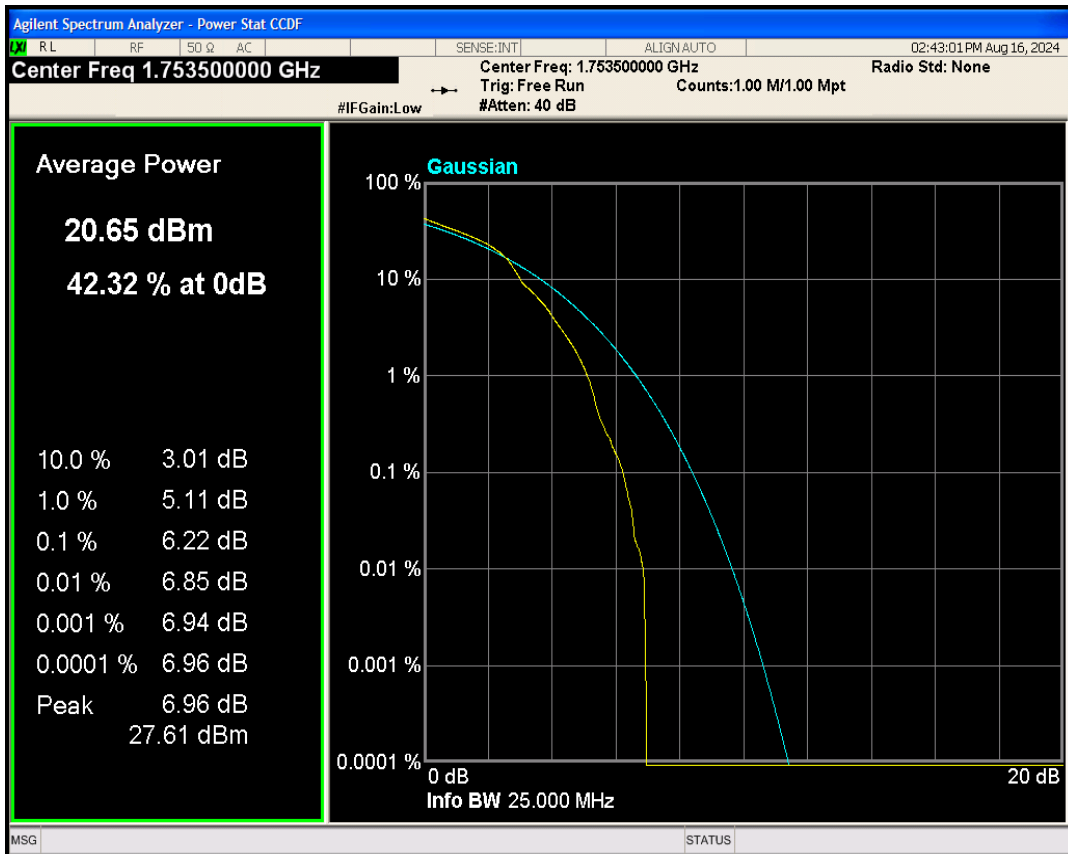
Band4 16QAM BW=3MHz Channel=20175 RB Size=1 Position=#0



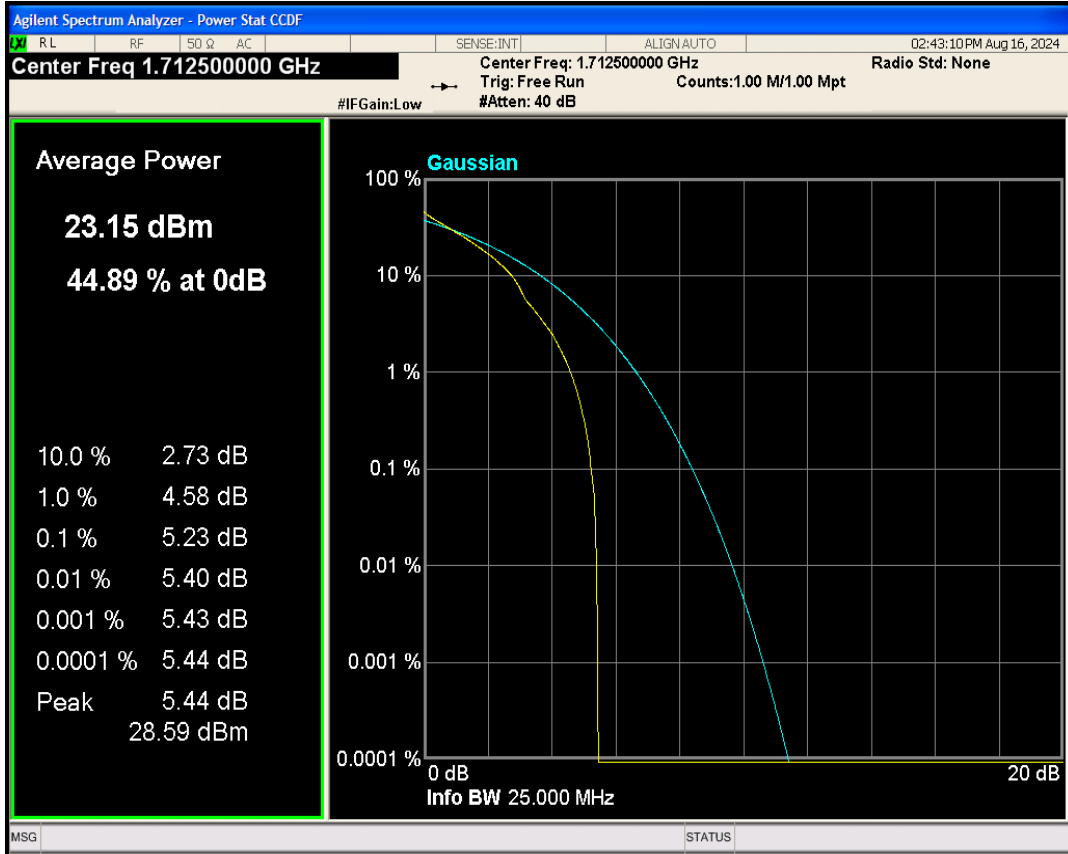
Band4 QPSK BW=3MHz Channel=20385 RB Size=1 Position=#0



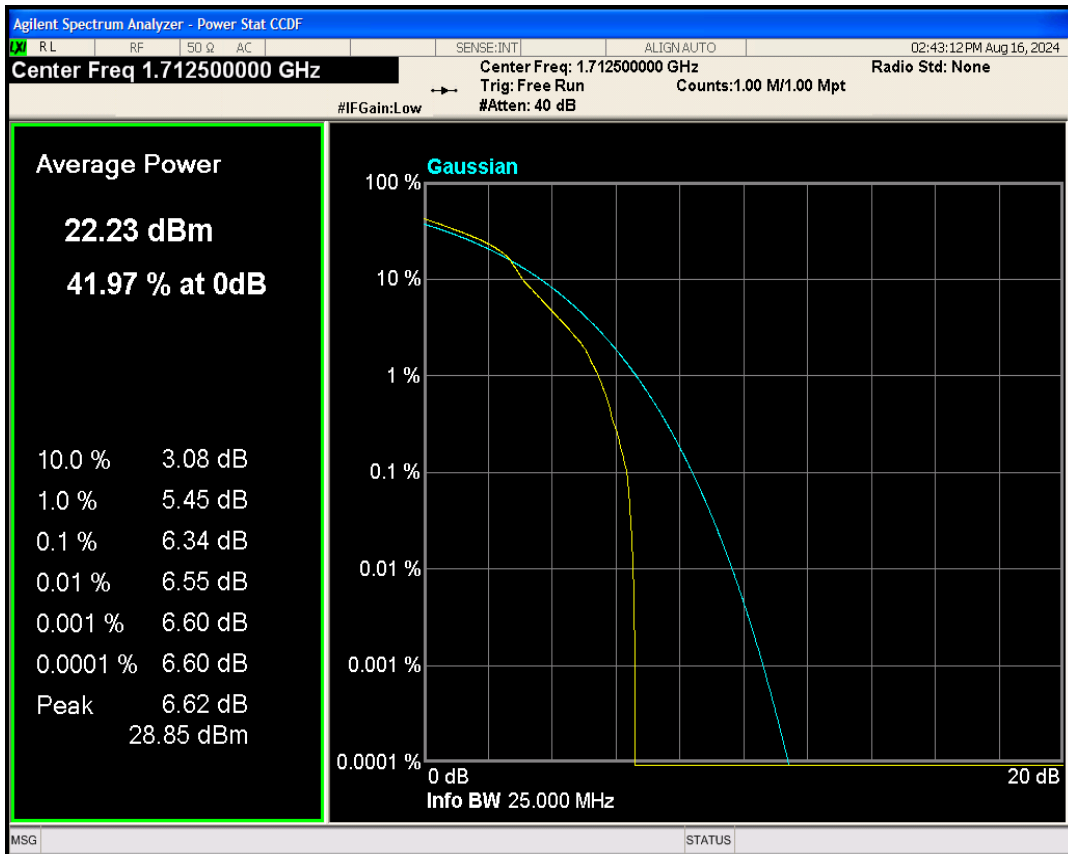
Band4 16QAM BW=3MHz Channel=20385 RB Size=1 Position=#0



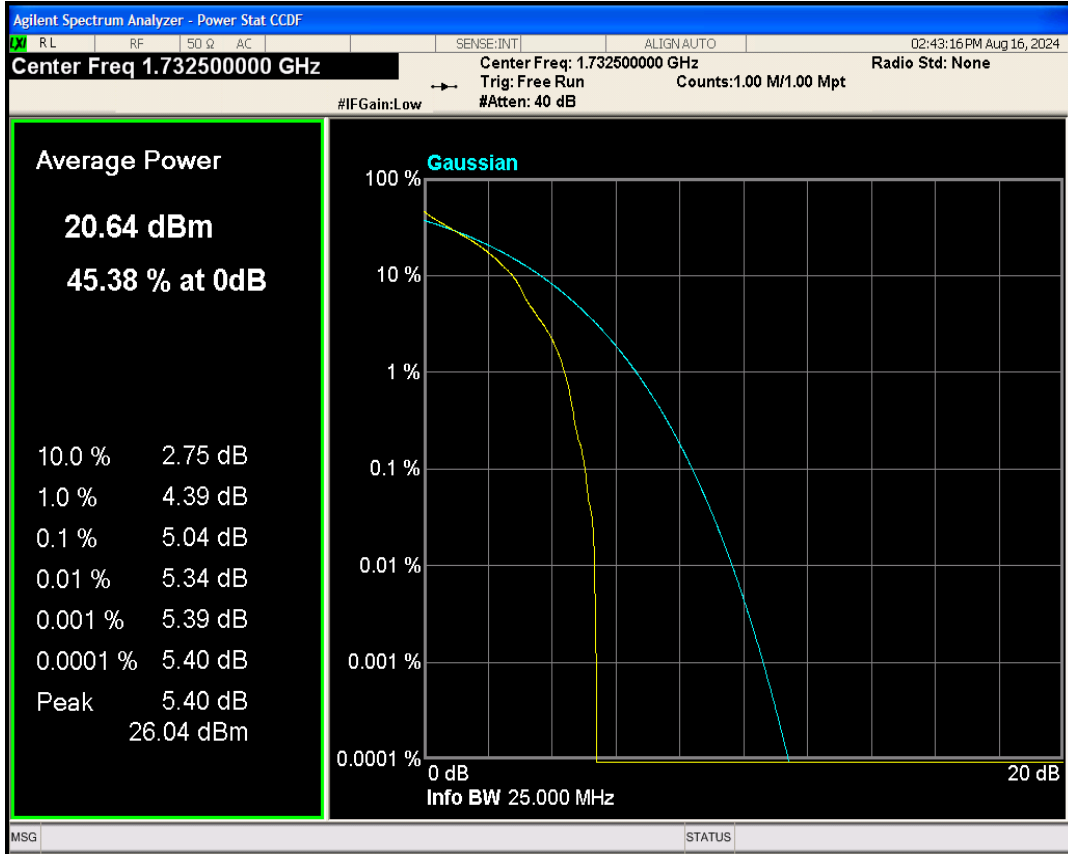
Band4 QPSK BW=5MHz Channel=19975 RB Size=1 Position=#0



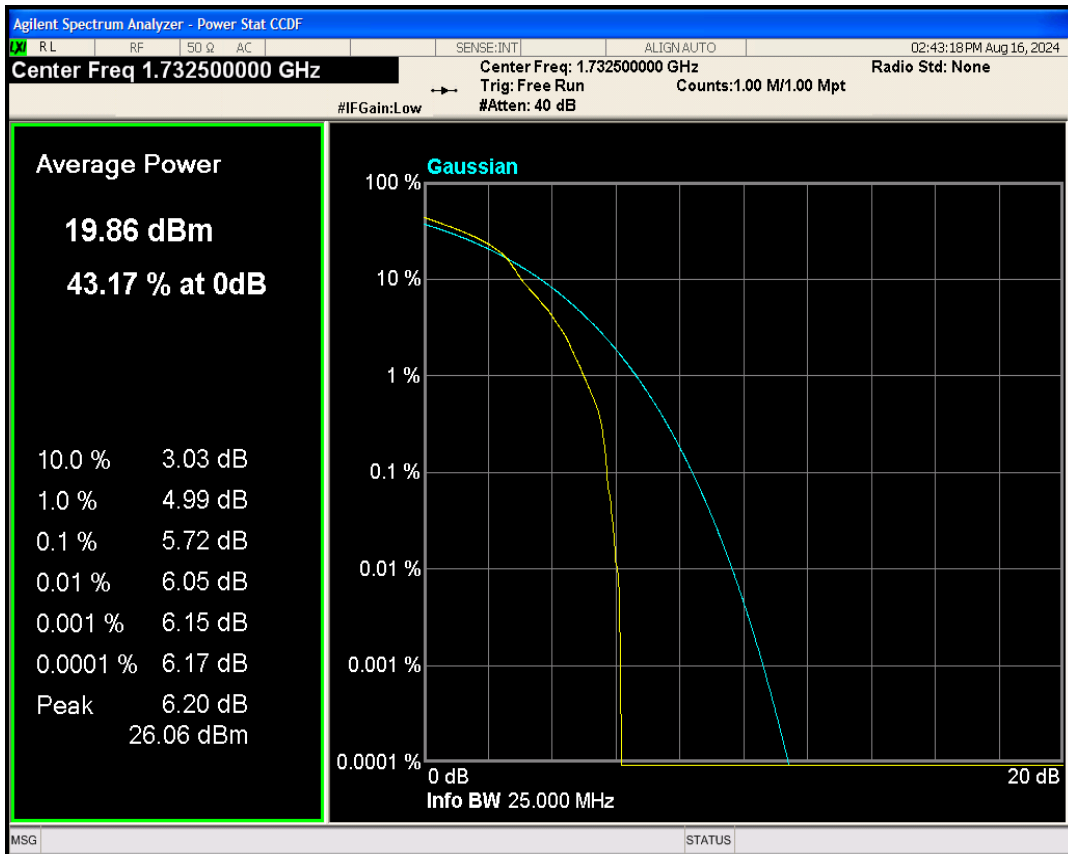
Band4 16QAM BW=5MHz Channel=19975 RB Size=1 Position=#0



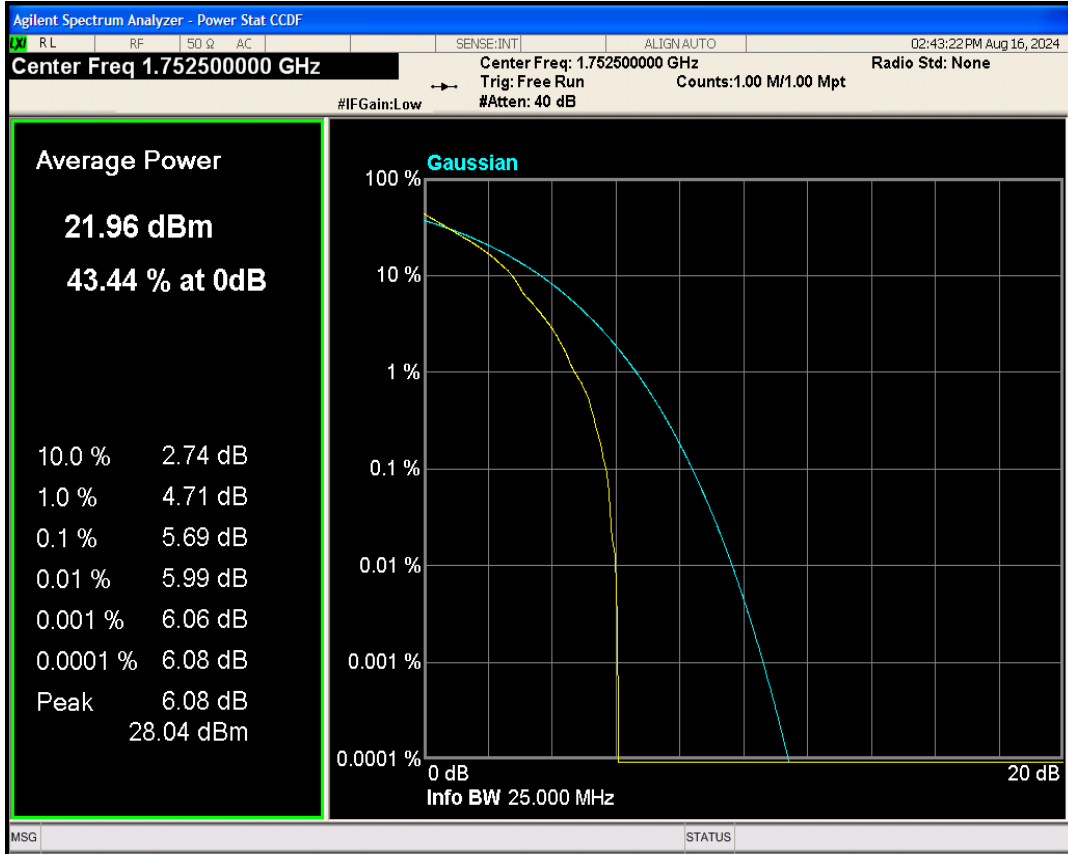
Band4 QPSK BW=5MHz Channel=20175 RB Size=1 Position=#0



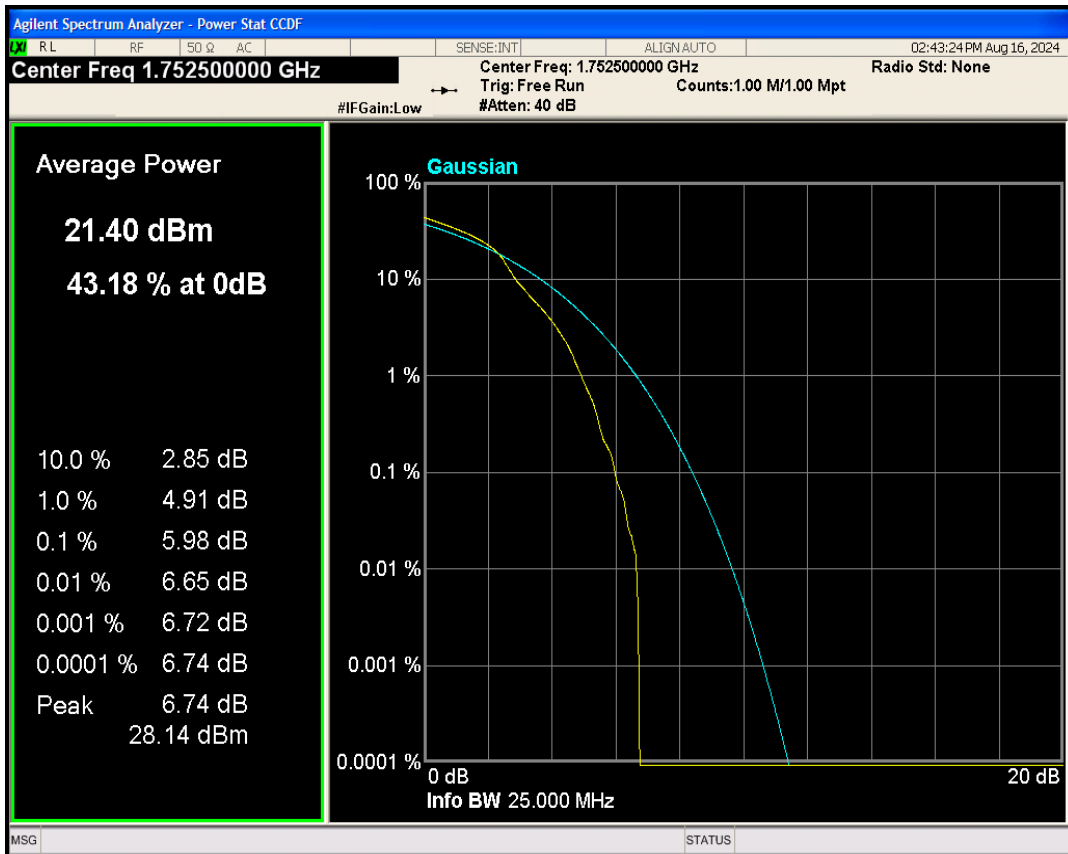
Band4 16QAM BW=5MHz Channel=20175 RB Size=1 Position=#0



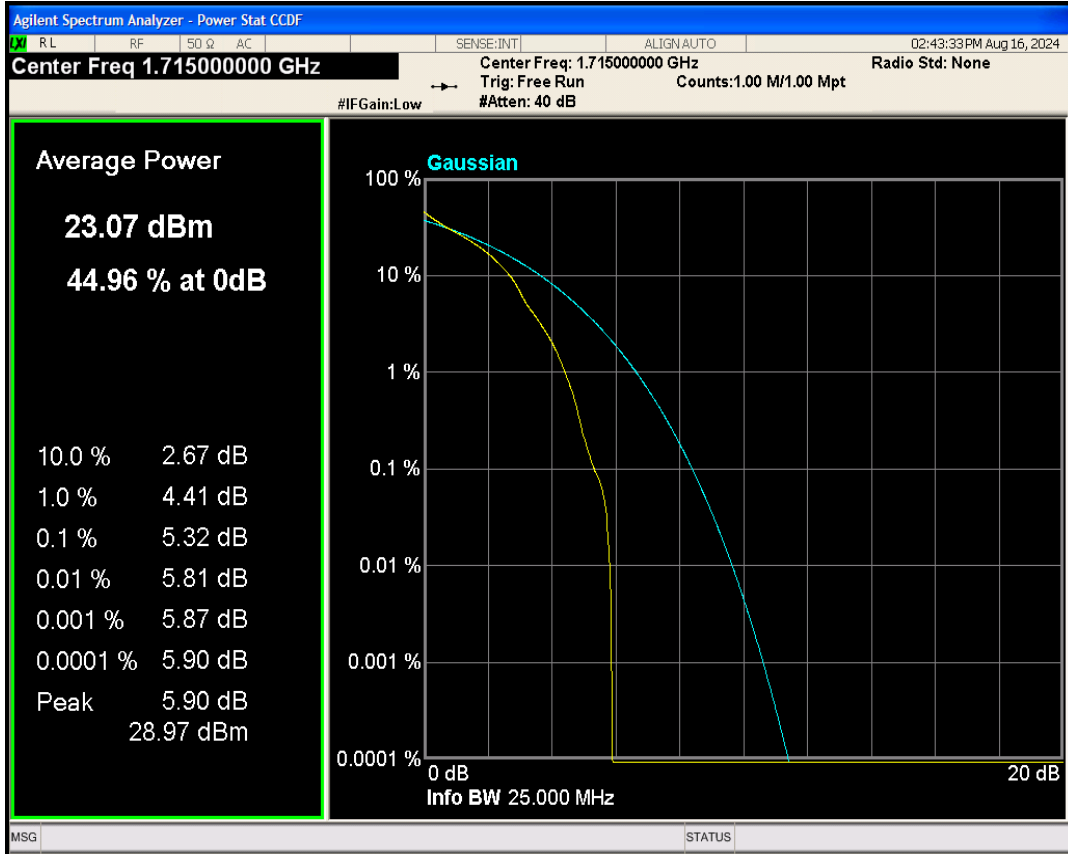
Band4 QPSK BW=5MHz Channel=20375 RB Size=1 Position=#0



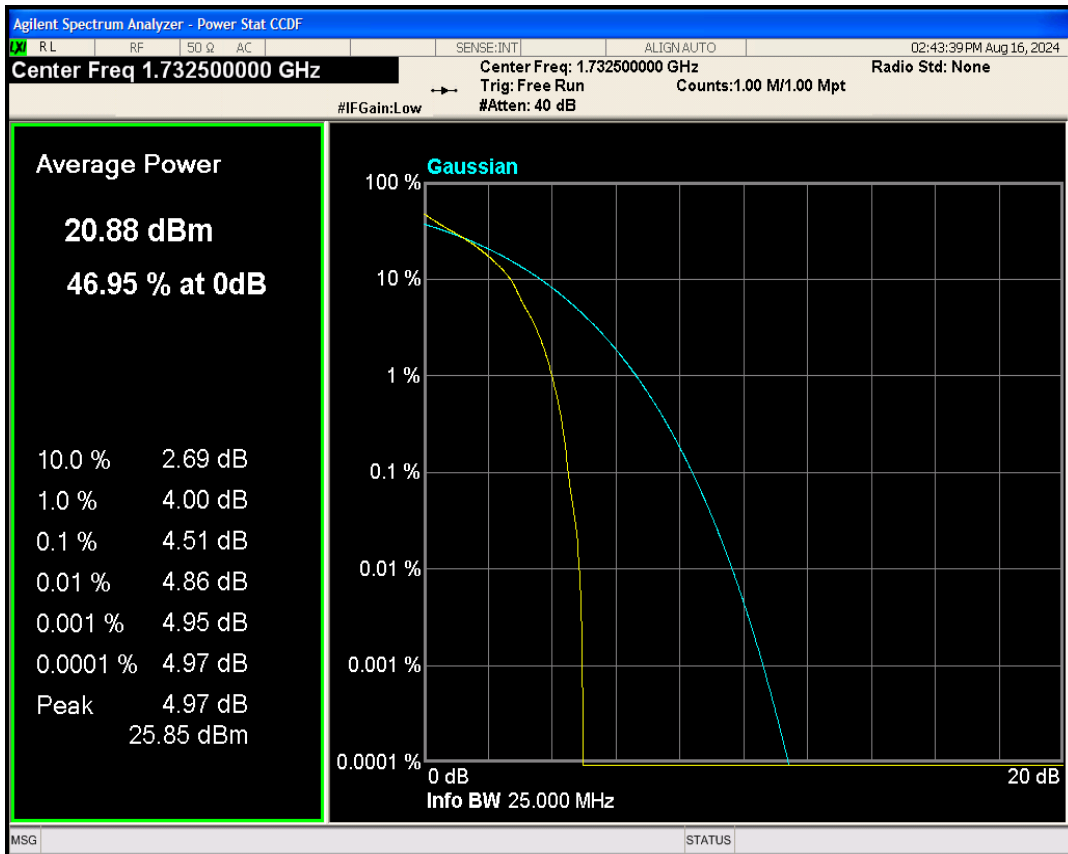
Band4 16QAM BW=5MHz Channel=20375 RB Size=1 Position=#0



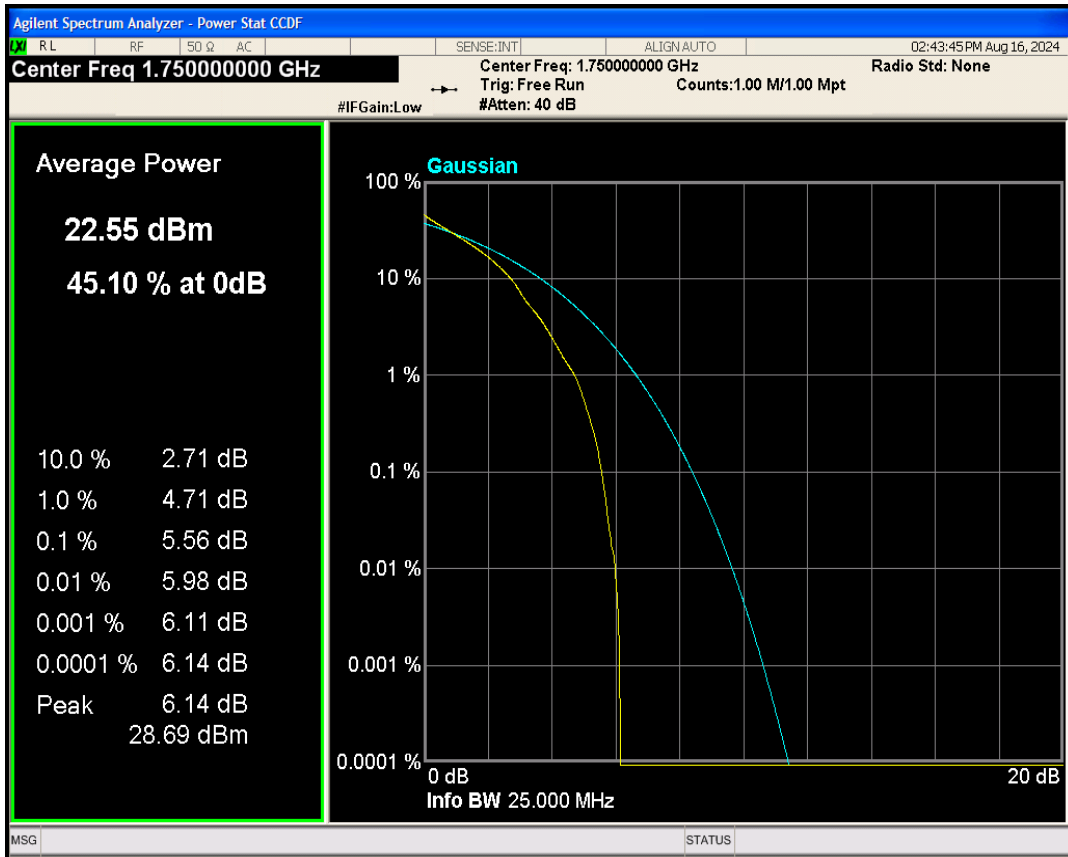
Band4 QPSK BW=10MHz Channel=20000 RB Size=1 Position=#0



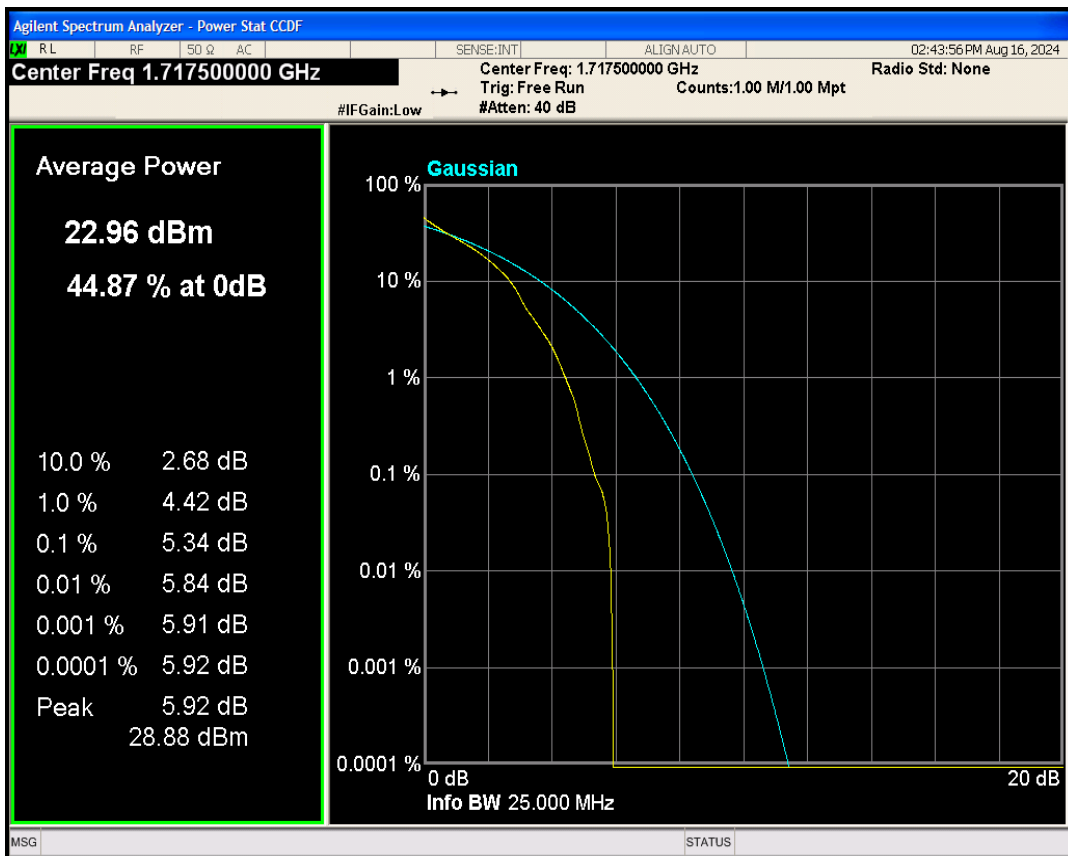
Band4 QPSK BW=10MHz Channel=20175 RB Size=1 Position=#0



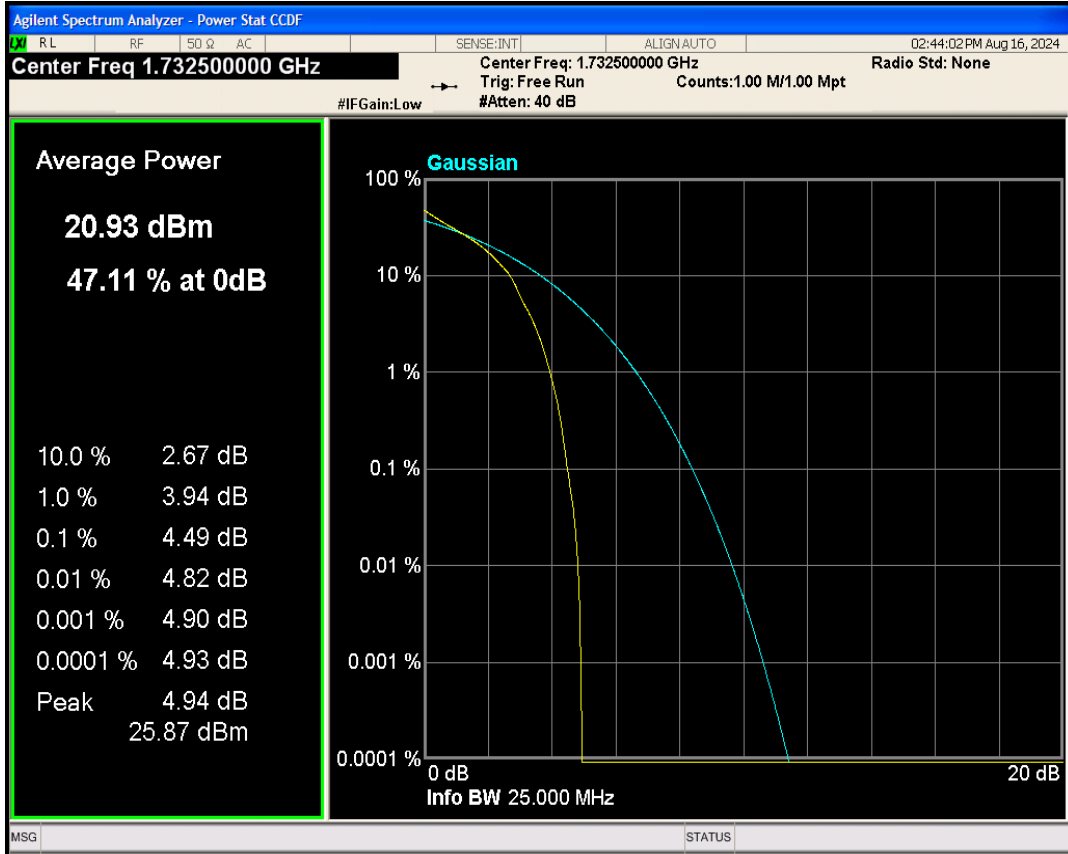
Band4 QPSK BW=10MHz Channel=20350 RB Size=1 Position=#0



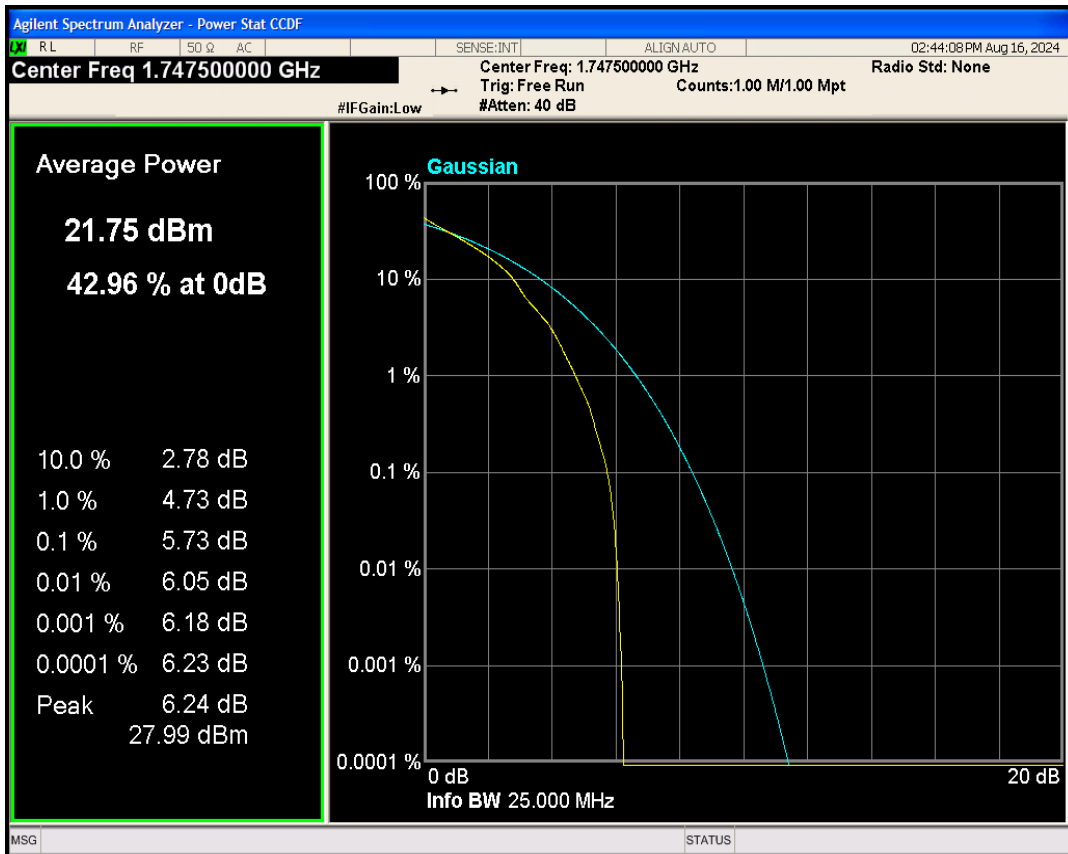
Band4 QPSK BW=15MHz Channel=20025 RB Size=1 Position=#0



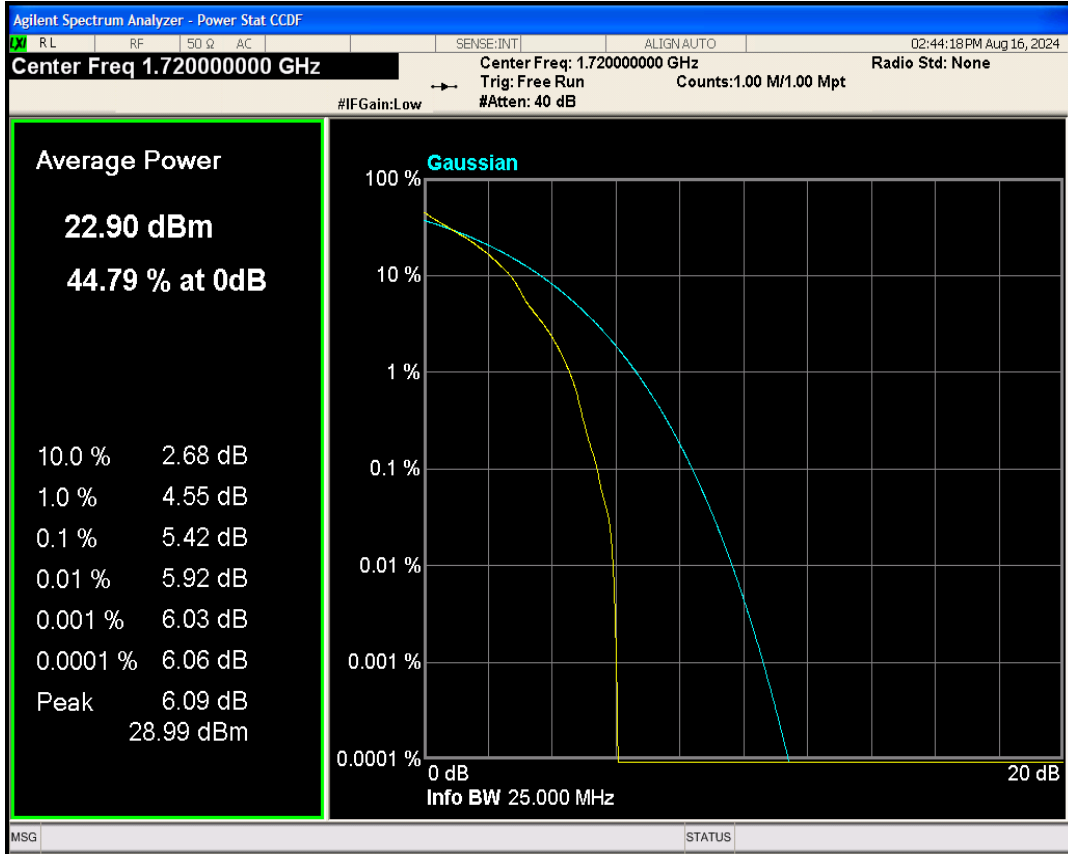
Band4 QPSK BW=15MHz Channel=20175 RB Size=1 Position=#0



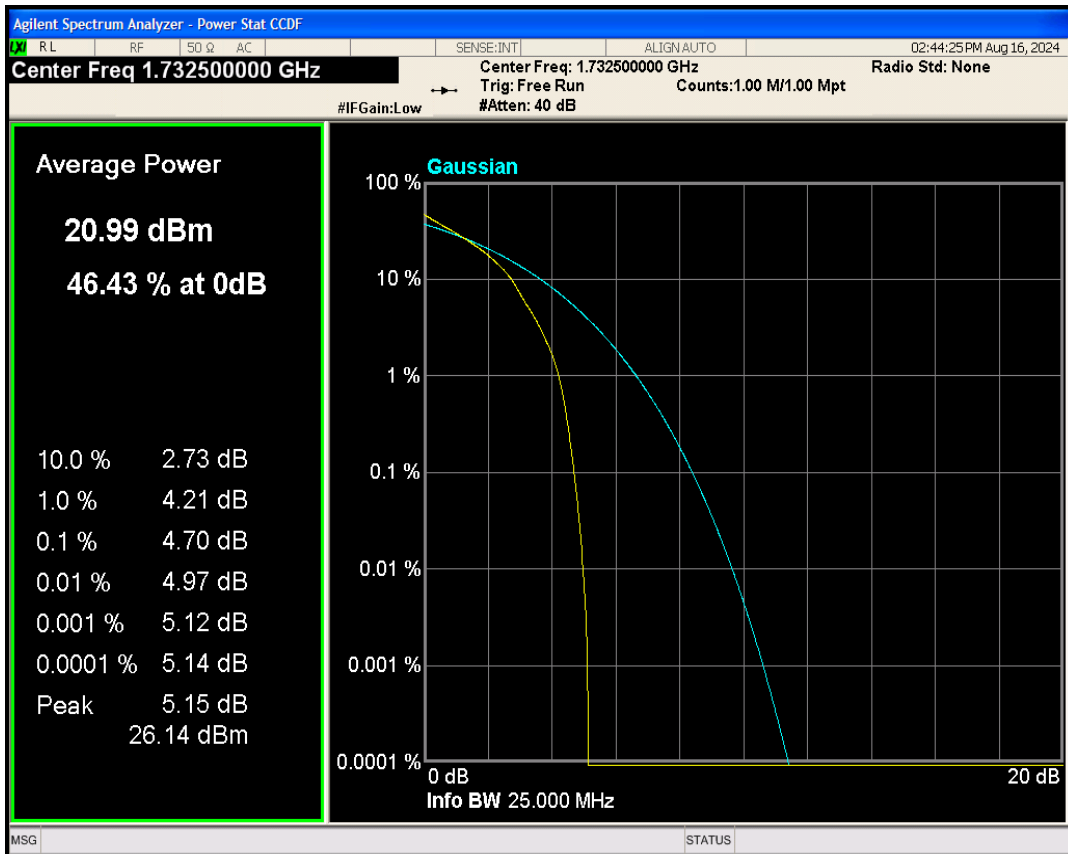
Band4 QPSK BW=15MHz Channel=20325 RB Size=1 Position=#0



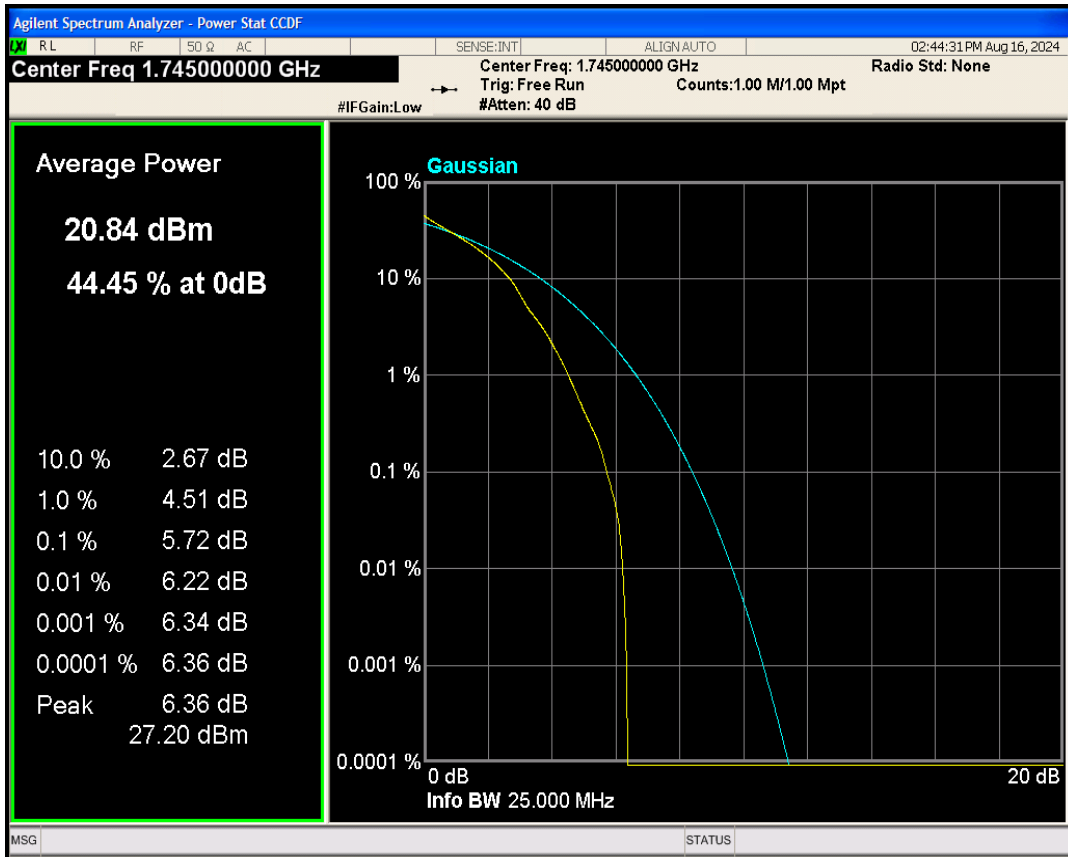
Band4 QPSK BW=20MHz Channel=20050 RB Size=1 Position=#0



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



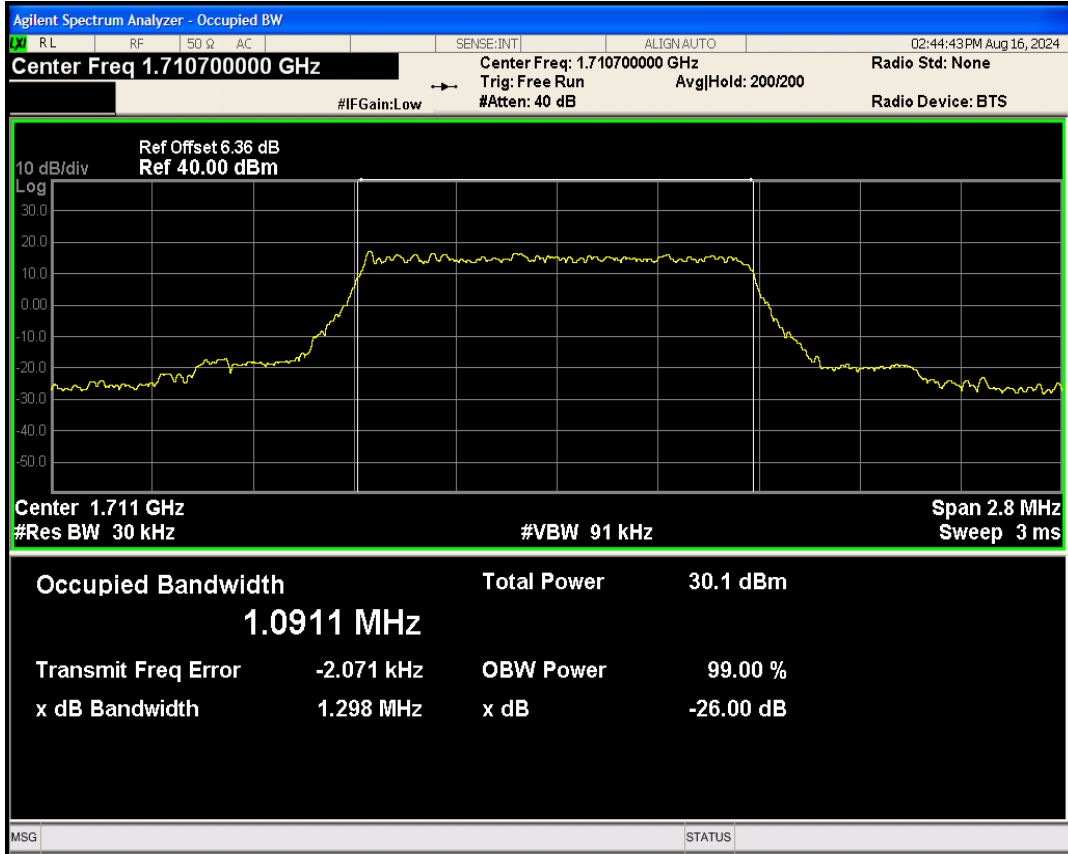
Band4 QPSK BW=20MHz Channel=20300 RB Size=1 Position=#0



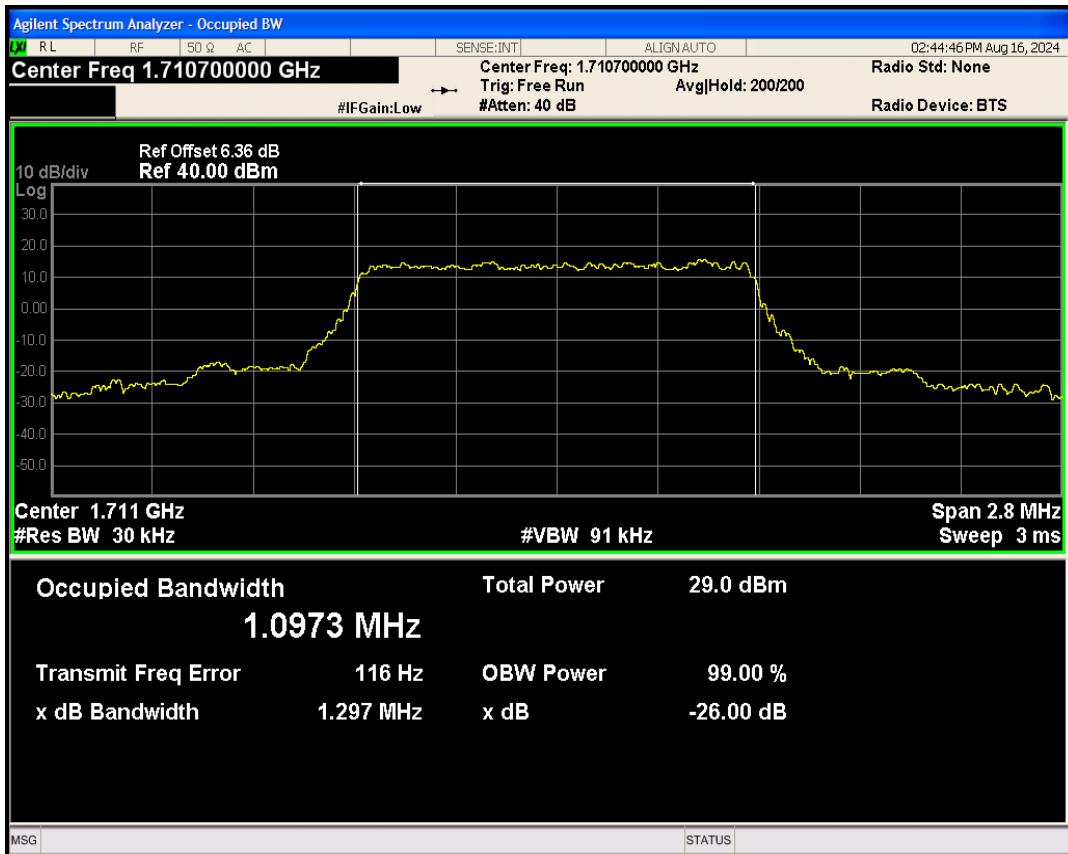
Appendix 4. Occupied bandwidth

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	1.298	PASS
Band4	1.4	19957	6	#0	16QAM	1.097	1.297	PASS
Band4	1.4	20175	6	#0	QPSK	1.096	1.290	PASS
Band4	1.4	20175	6	#0	16QAM	1.094	1.268	PASS
Band4	1.4	20393	6	#0	QPSK	1.095	1.290	PASS
Band4	1.4	20393	6	#0	16QAM	1.097	1.306	PASS
Band4	3	19965	15	#0	QPSK	2.706	2.973	PASS
Band4	3	19965	15	#0	16QAM	2.713	2.979	PASS
Band4	3	20175	15	#0	QPSK	2.699	2.977	PASS
Band4	3	20175	15	#0	16QAM	2.694	2.954	PASS
Band4	3	20385	15	#0	QPSK	2.701	2.989	PASS
Band4	3	20385	15	#0	16QAM	2.694	2.948	PASS
Band4	5	19975	25	#0	QPSK	4.534	5.025	PASS
Band4	5	19975	25	#0	16QAM	4.509	5.170	PASS
Band4	5	20175	25	#0	QPSK	4.526	5.120	PASS
Band4	5	20175	25	#0	16QAM	4.513	5.080	PASS
Band4	5	20375	25	#0	QPSK	4.524	5.153	PASS
Band4	5	20375	25	#0	16QAM	4.509	5.012	PASS
Band4	10	20000	50	#0	QPSK	9.001	10.044	PASS
Band4	10	20175	50	#0	QPSK	9.016	10.100	PASS
Band4	10	20350	50	#0	QPSK	8.998	10.172	PASS
Band4	15	20025	75	#0	QPSK	13.521	15.167	PASS
Band4	15	20175	75	#0	QPSK	13.510	15.242	PASS
Band4	15	20325	75	#0	QPSK	13.468	14.846	PASS
Band4	20	20050	100	#0	QPSK	17.988	20.034	PASS
Band4	20	20175	100	#0	QPSK	18.050	20.120	PASS
Band4	20	20300	100	#0	QPSK	17.892	19.723	PASS

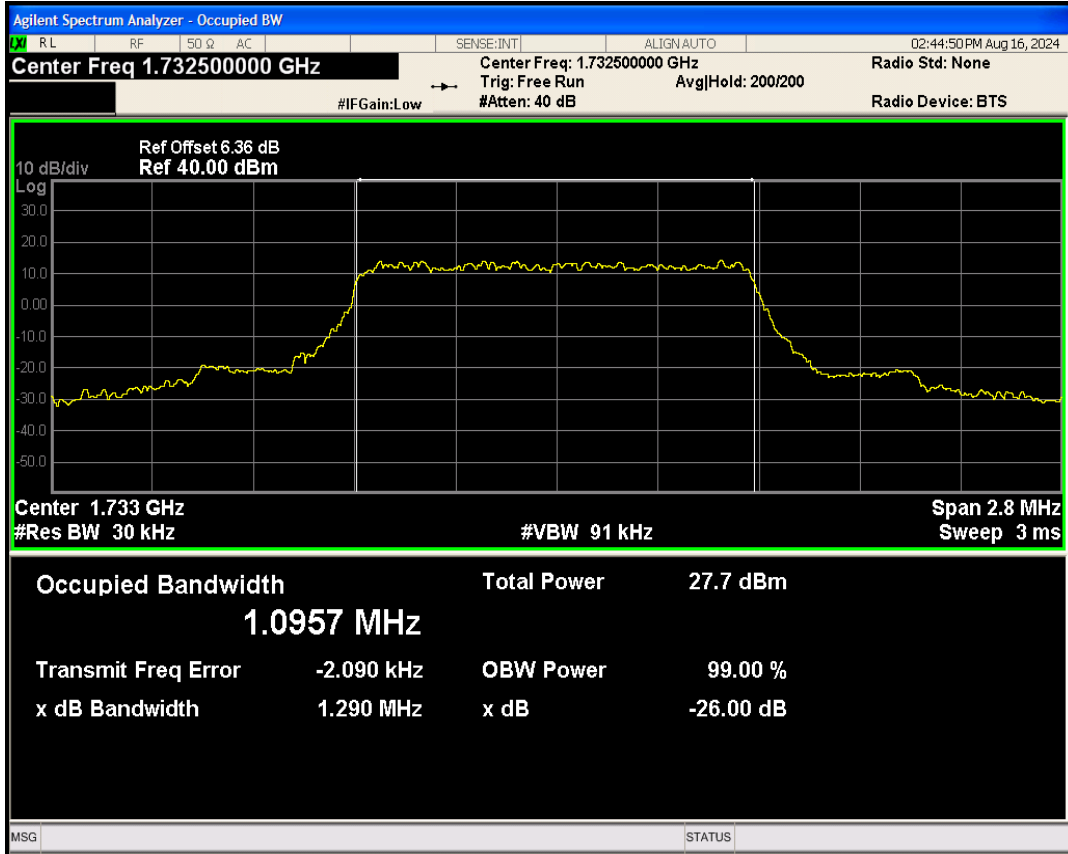
Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0



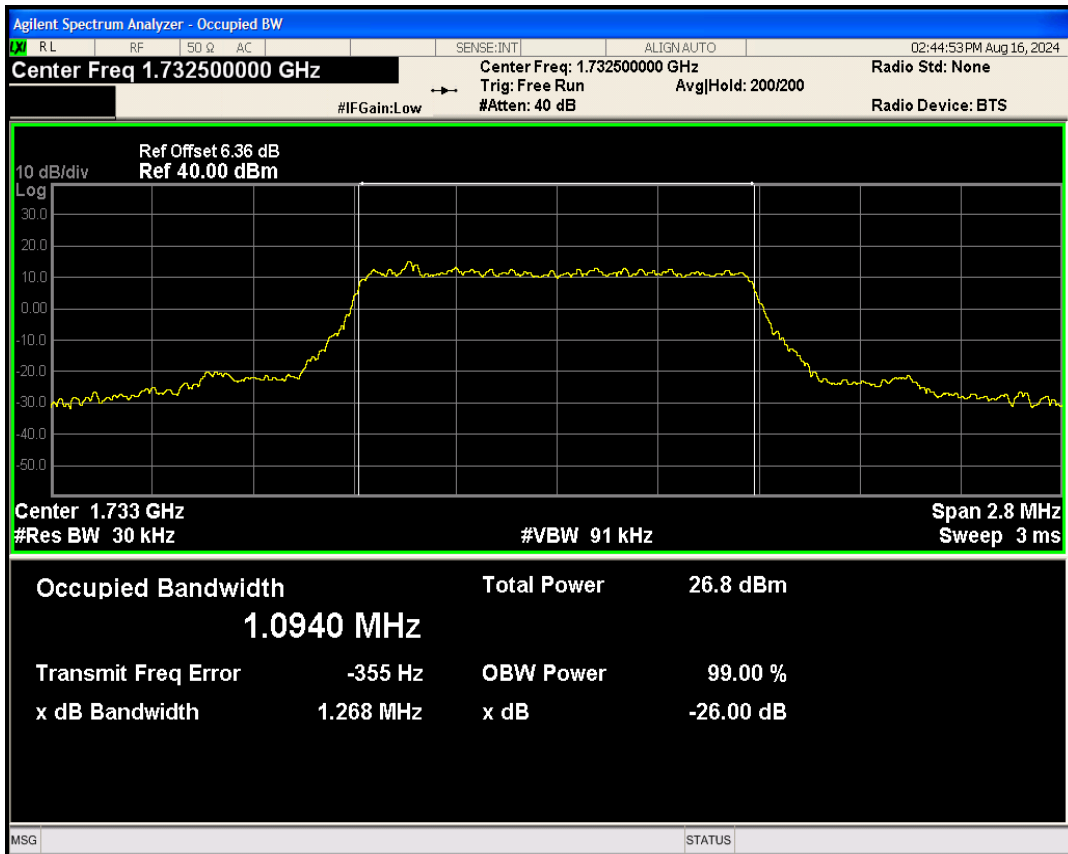
Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0



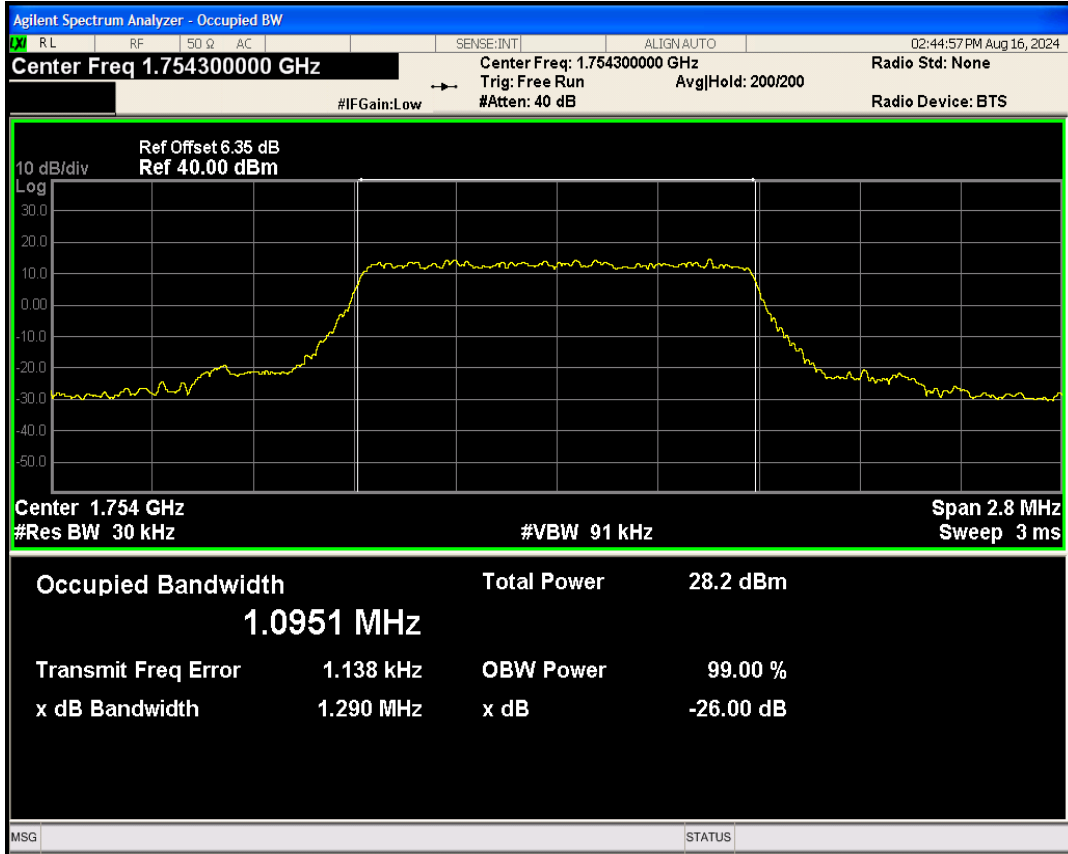
Band4 QPSK BW=1.4MHz Channel=20175 RB Size=6 Position=#0



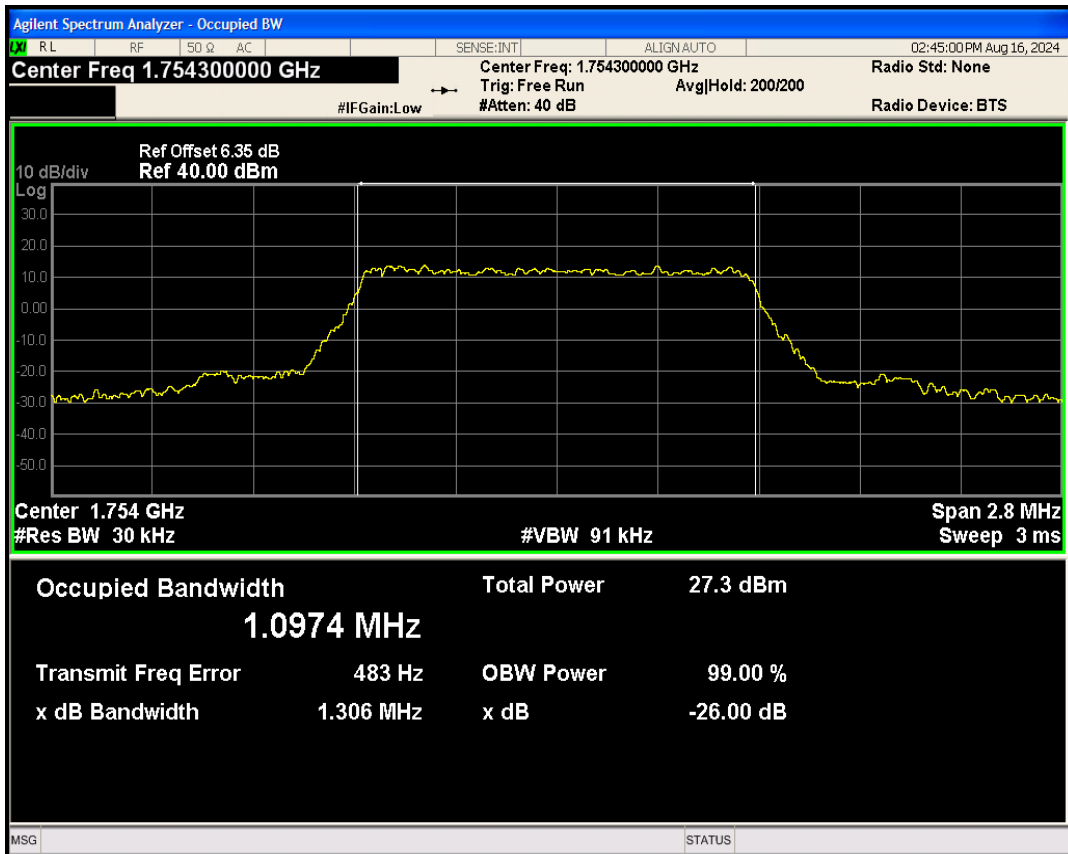
Band4 16QAM BW=1.4MHz Channel=20175 RB Size=6 Position=#0



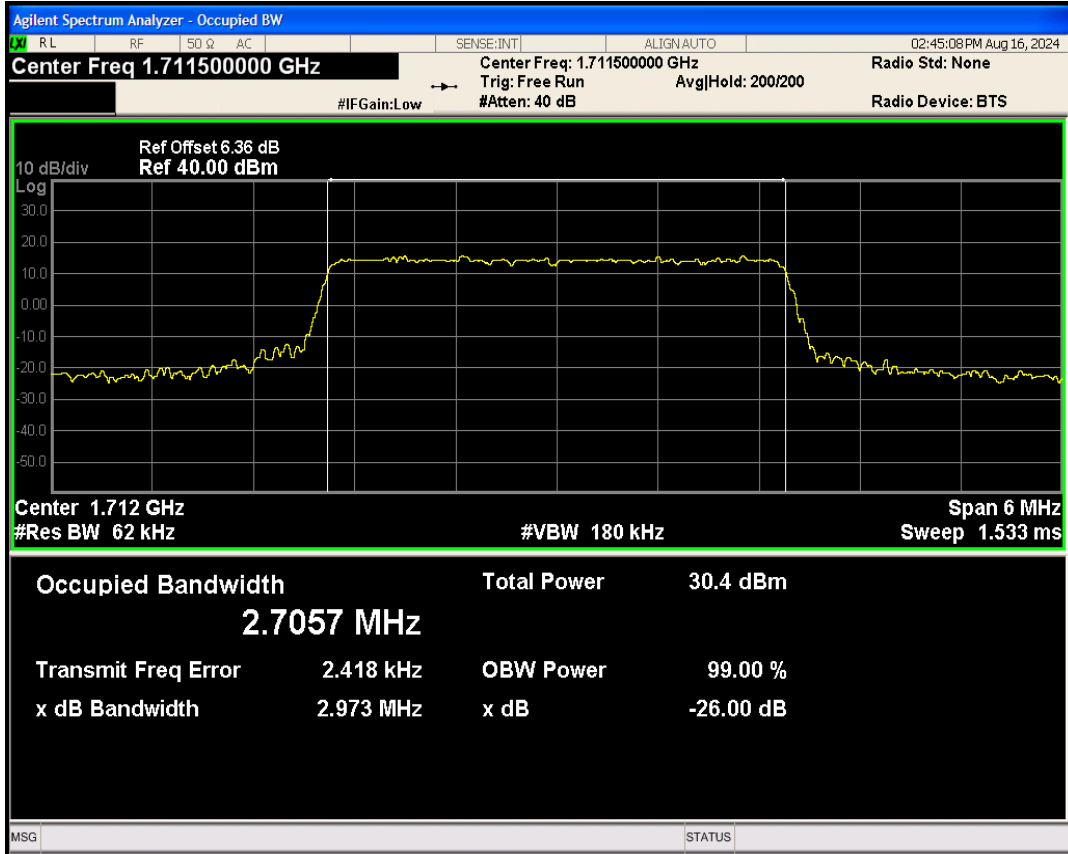
Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0



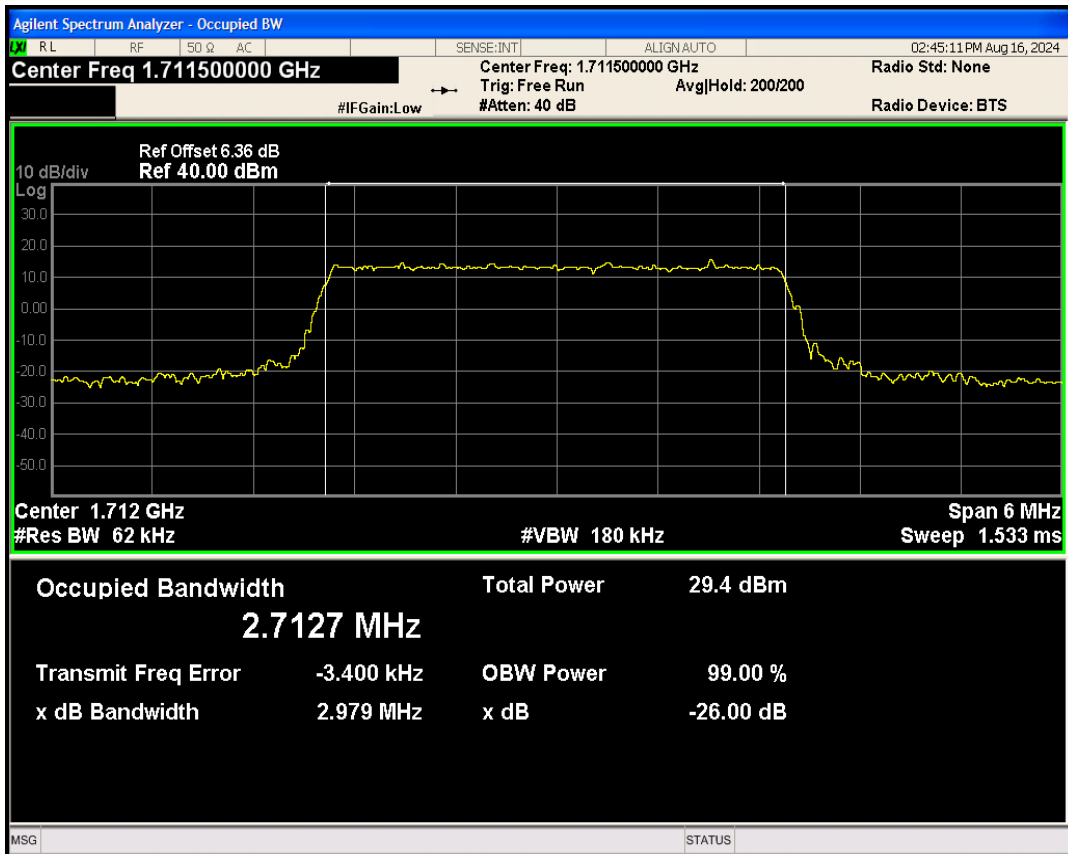
Band4 16QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0



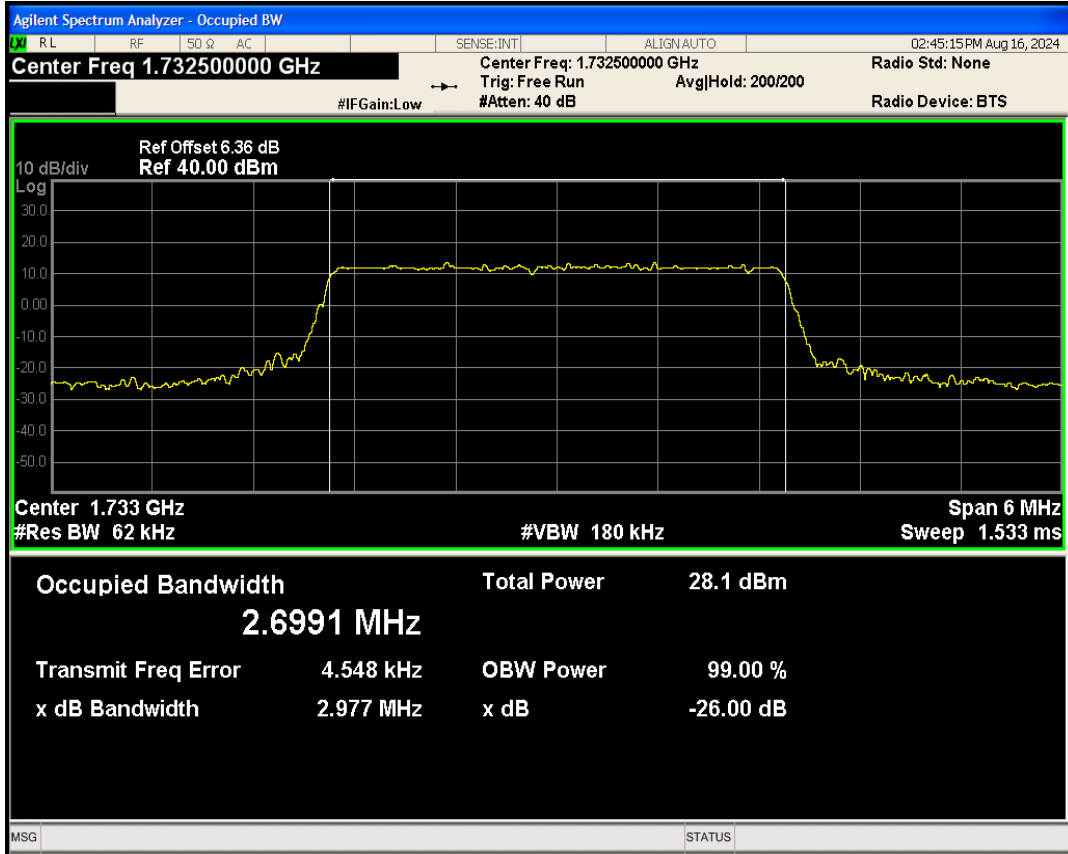
Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



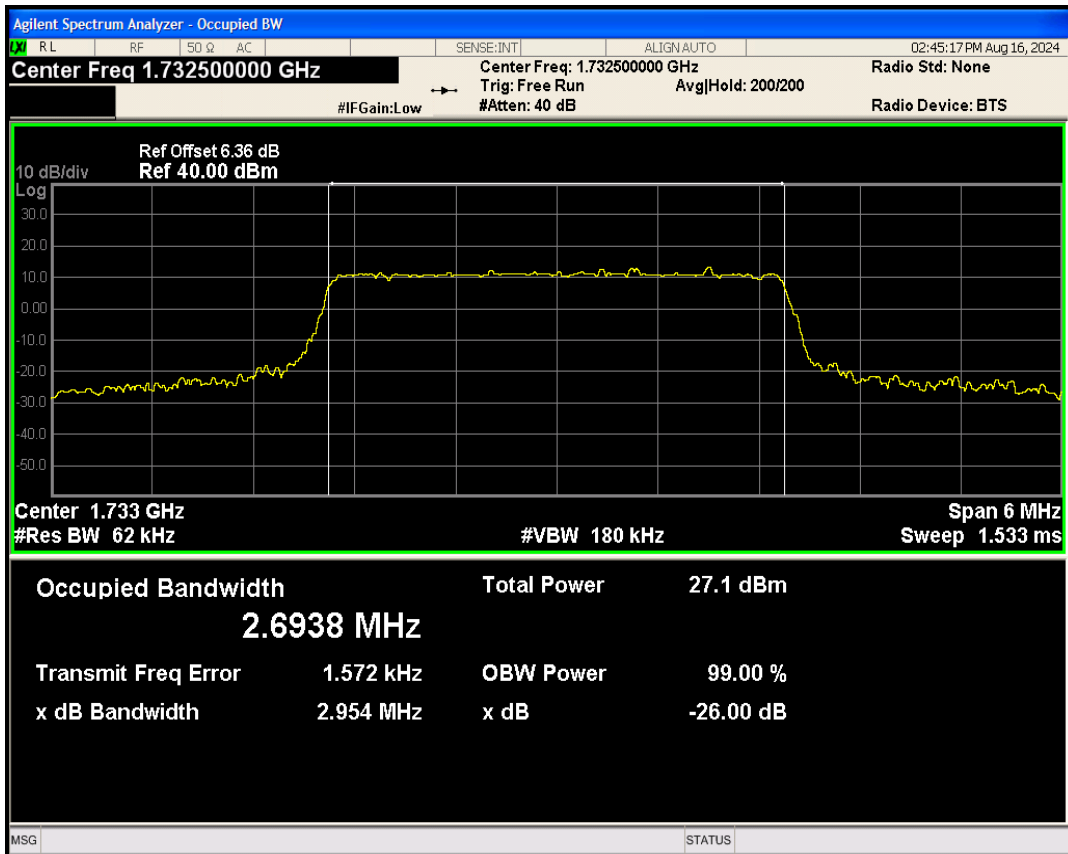
Band4 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0



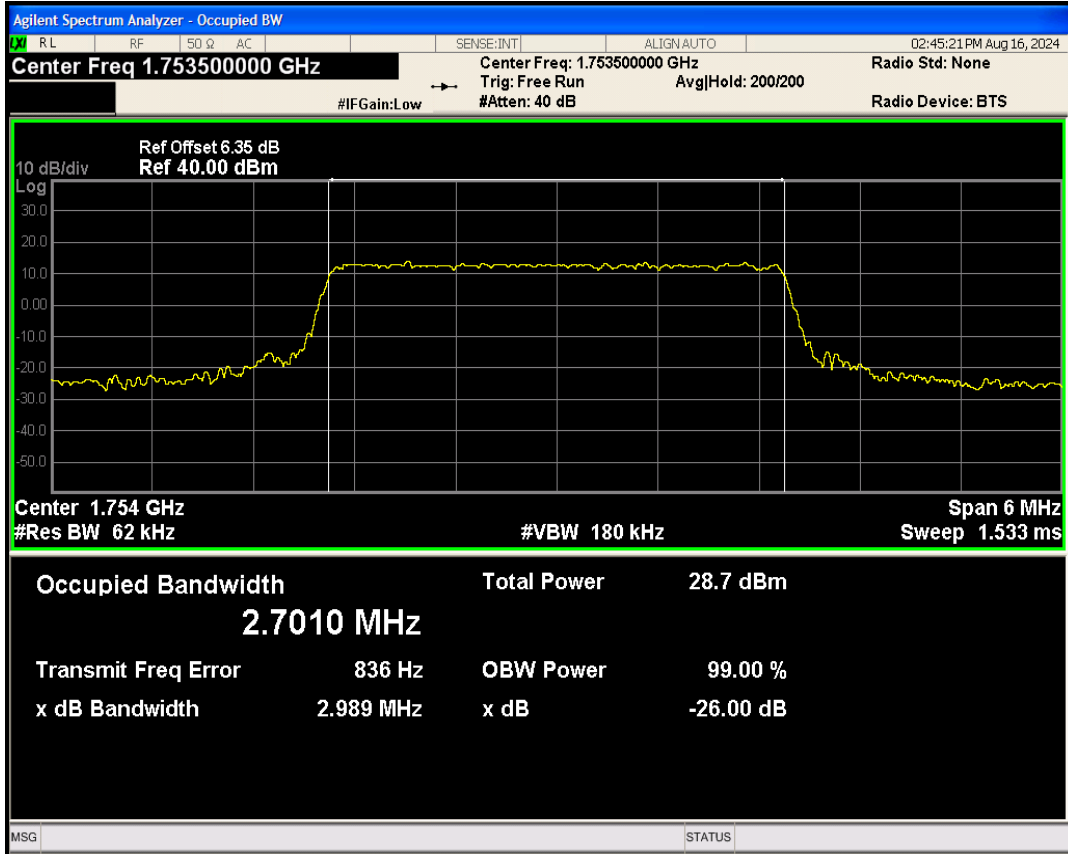
Band4 QPSK BW=3MHz Channel=20175 RB Size=15 Position=#0



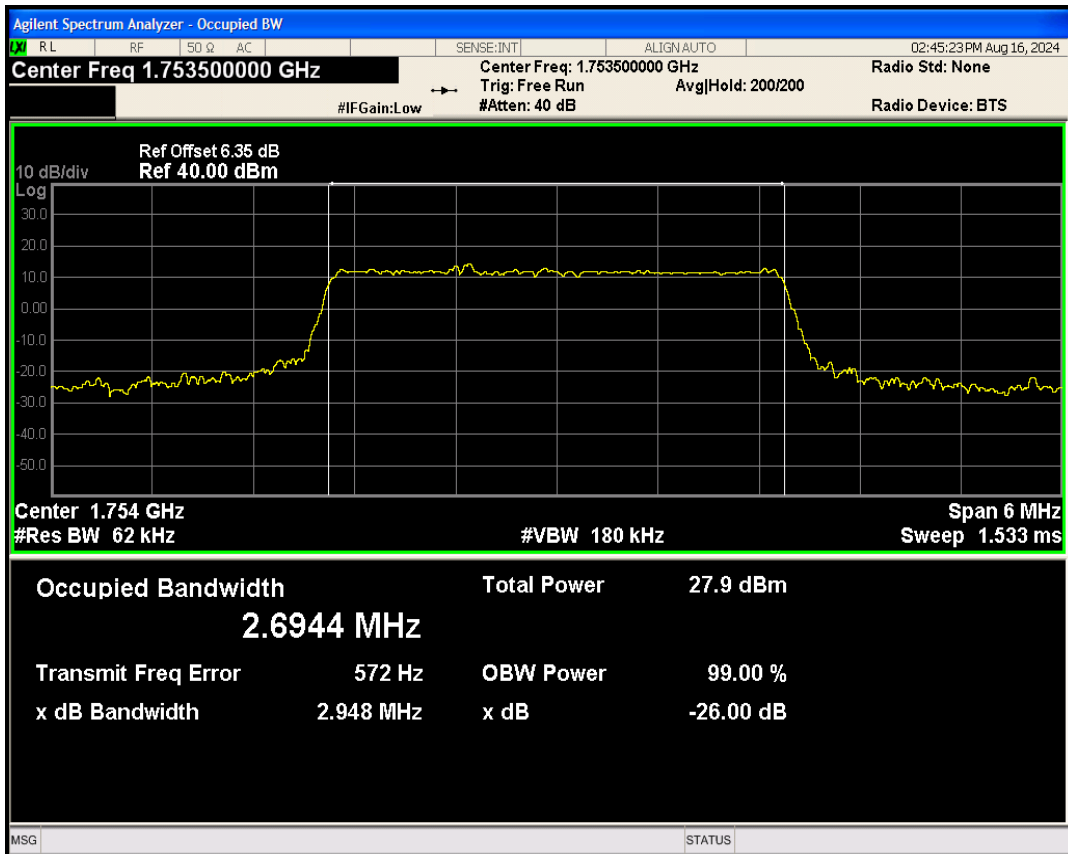
Band4 16QAM BW=3MHz Channel=20175 RB Size=15 Position=#0



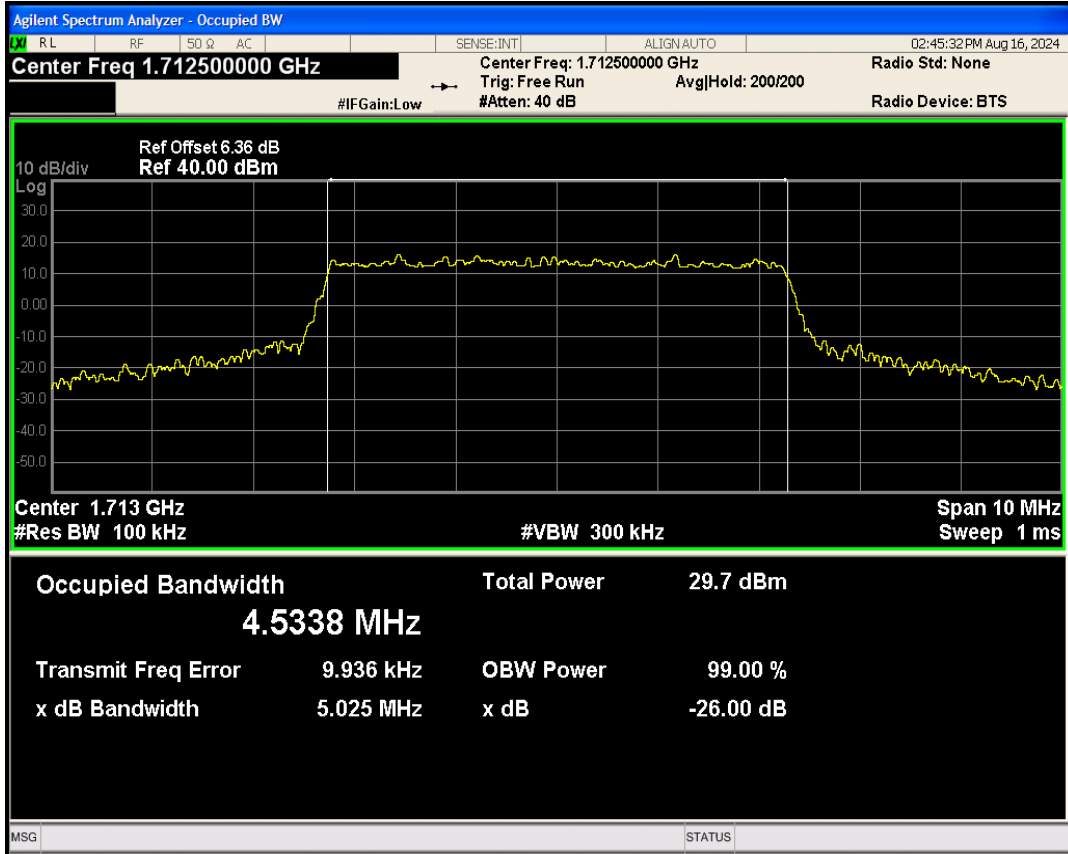
Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0



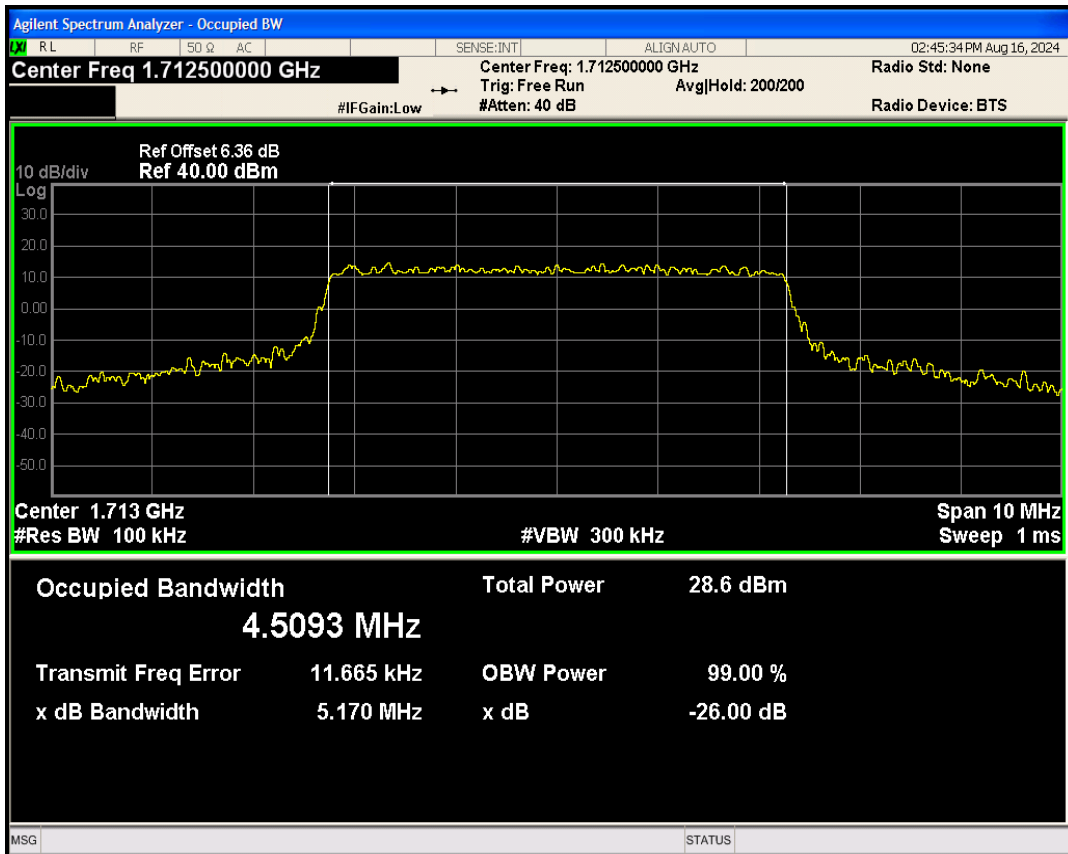
Band4 16QAM BW=3MHz Channel=20385 RB Size=15 Position=#0



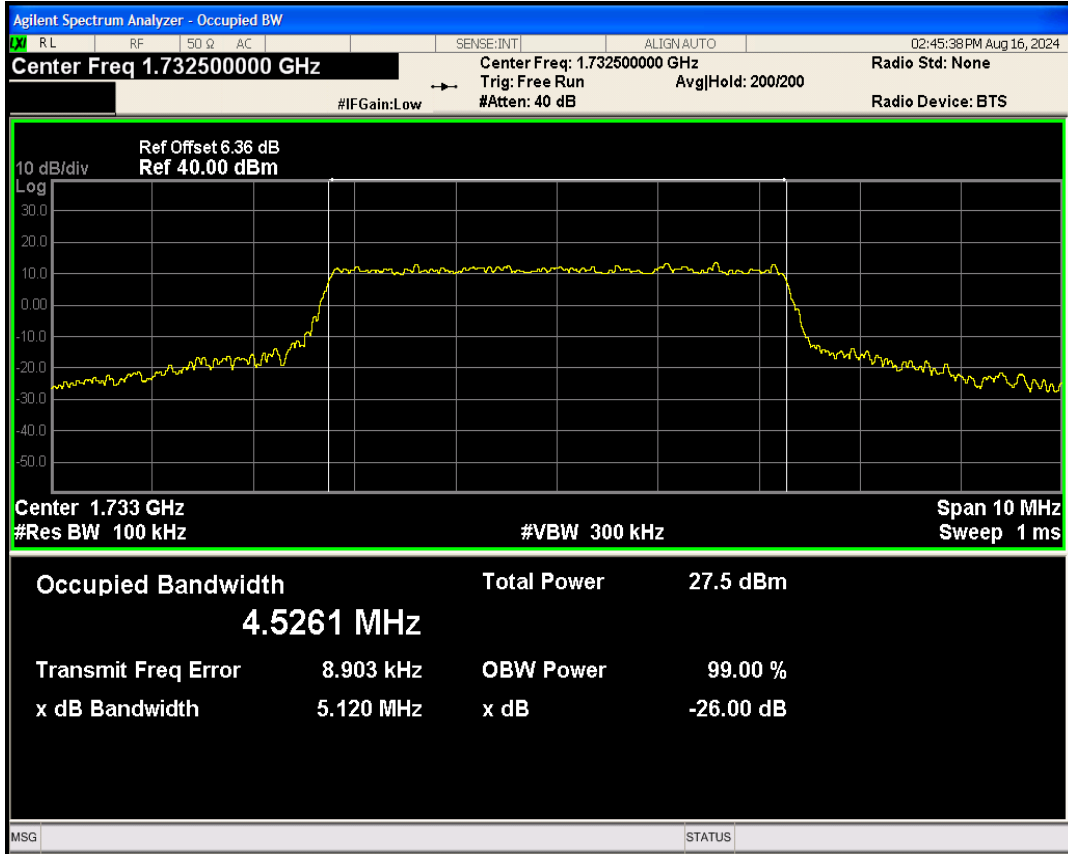
Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0



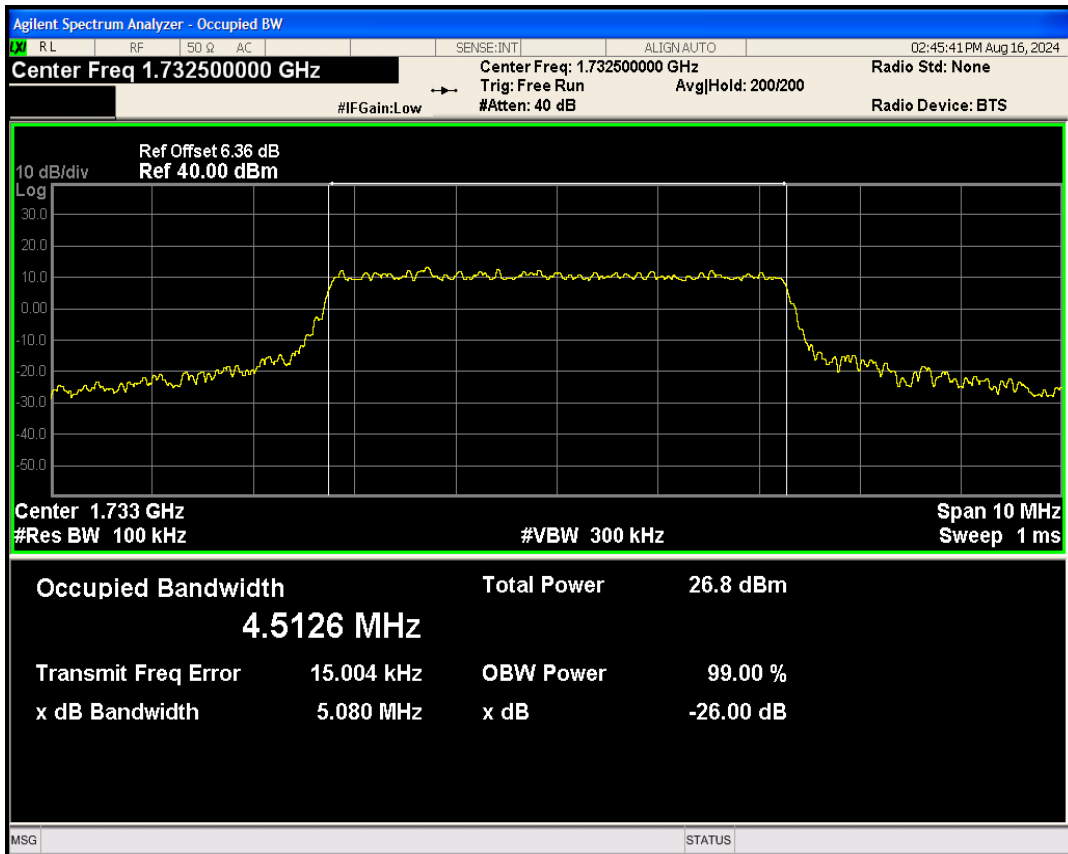
Band4 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0



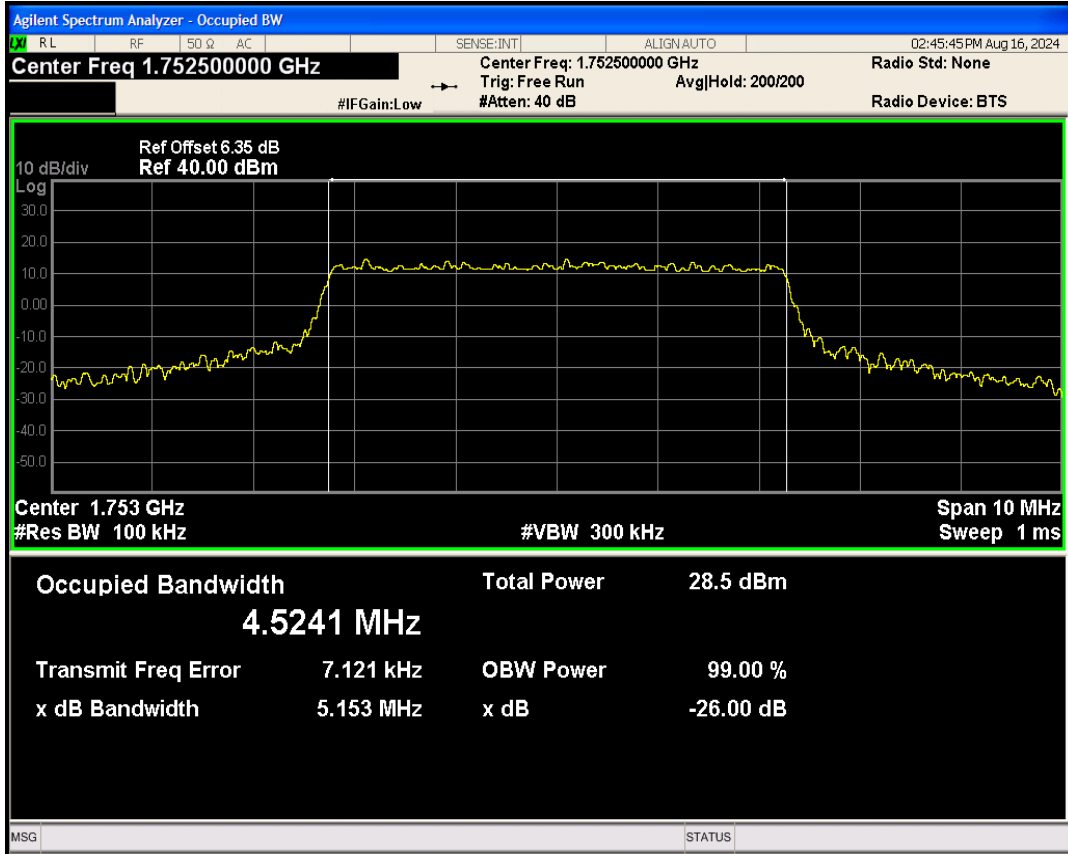
Band4 QPSK BW=5MHz Channel=20175 RB Size=25 Position=#0



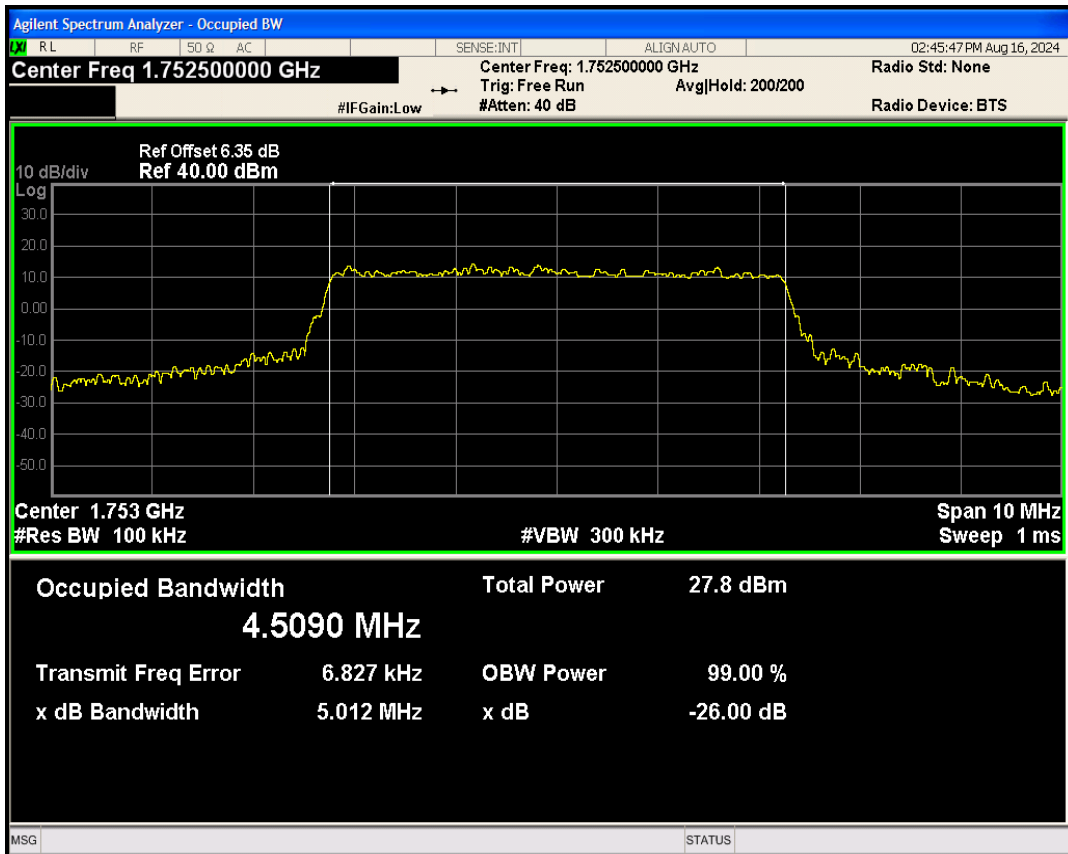
Band4 16QAM BW=5MHz Channel=20175 RB Size=25 Position=#0



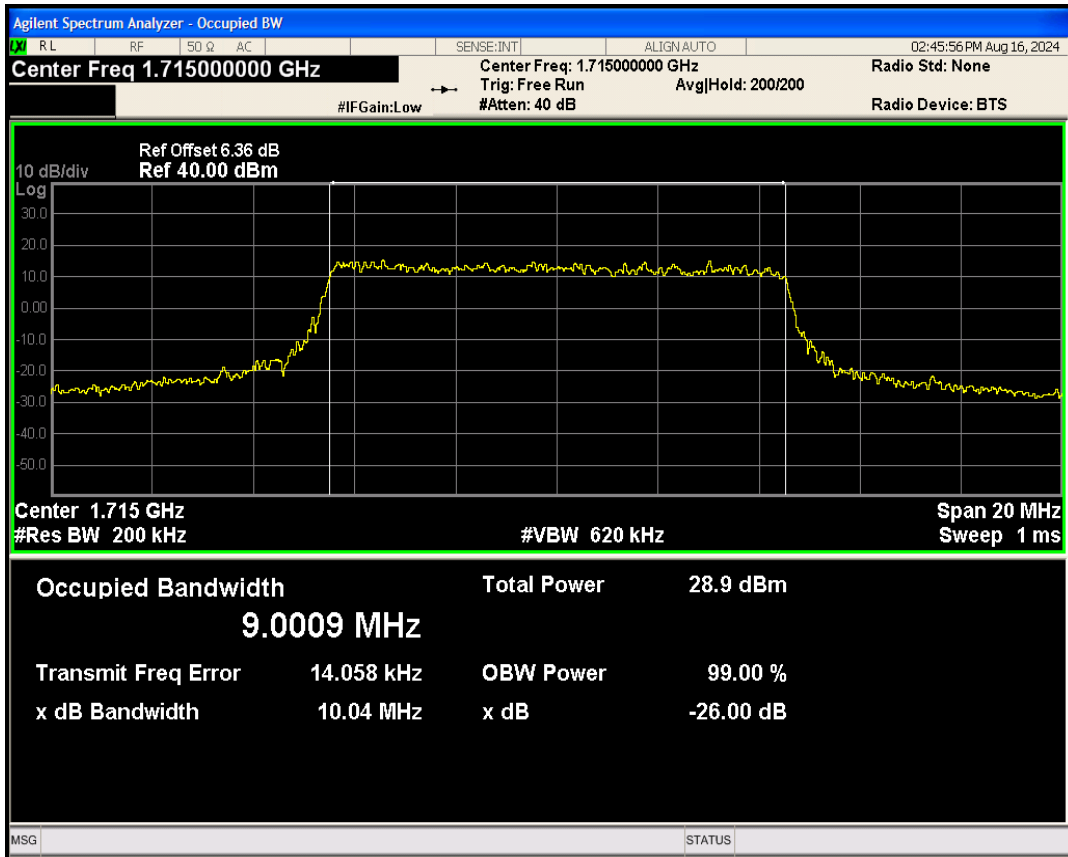
Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0



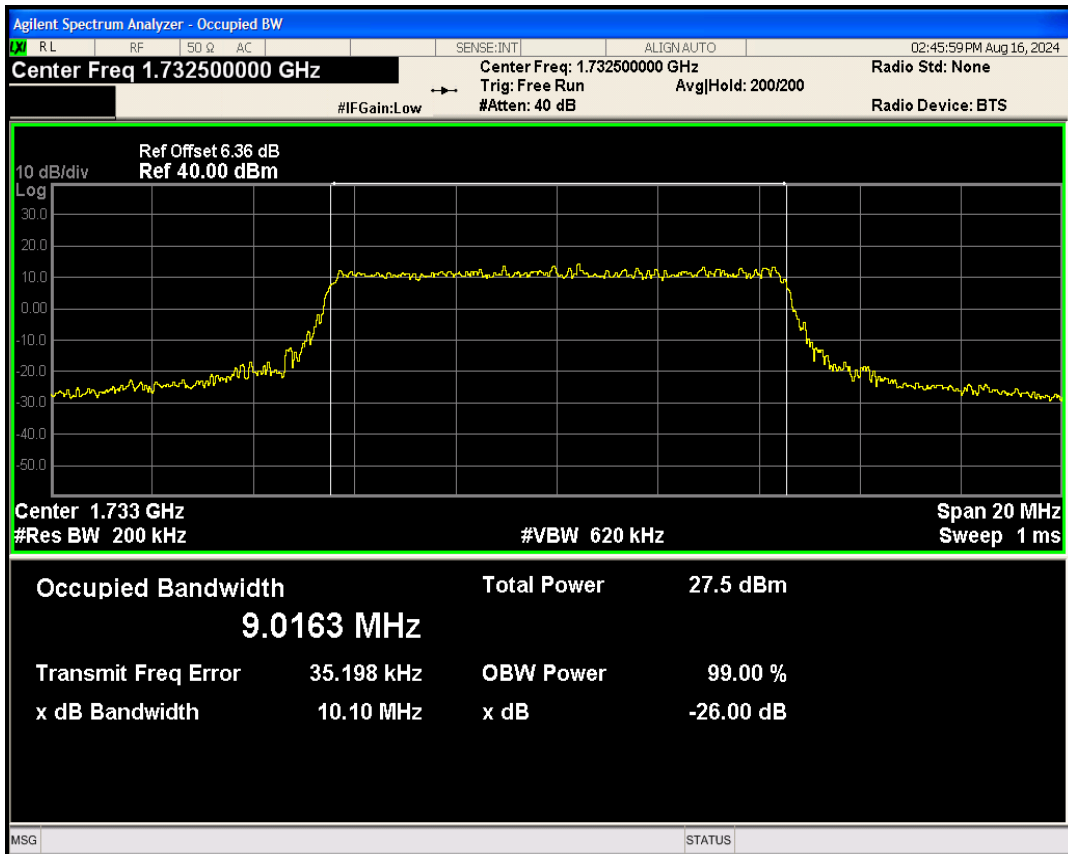
Band4 16QAM BW=5MHz Channel=20375 RB Size=25 Position=#0



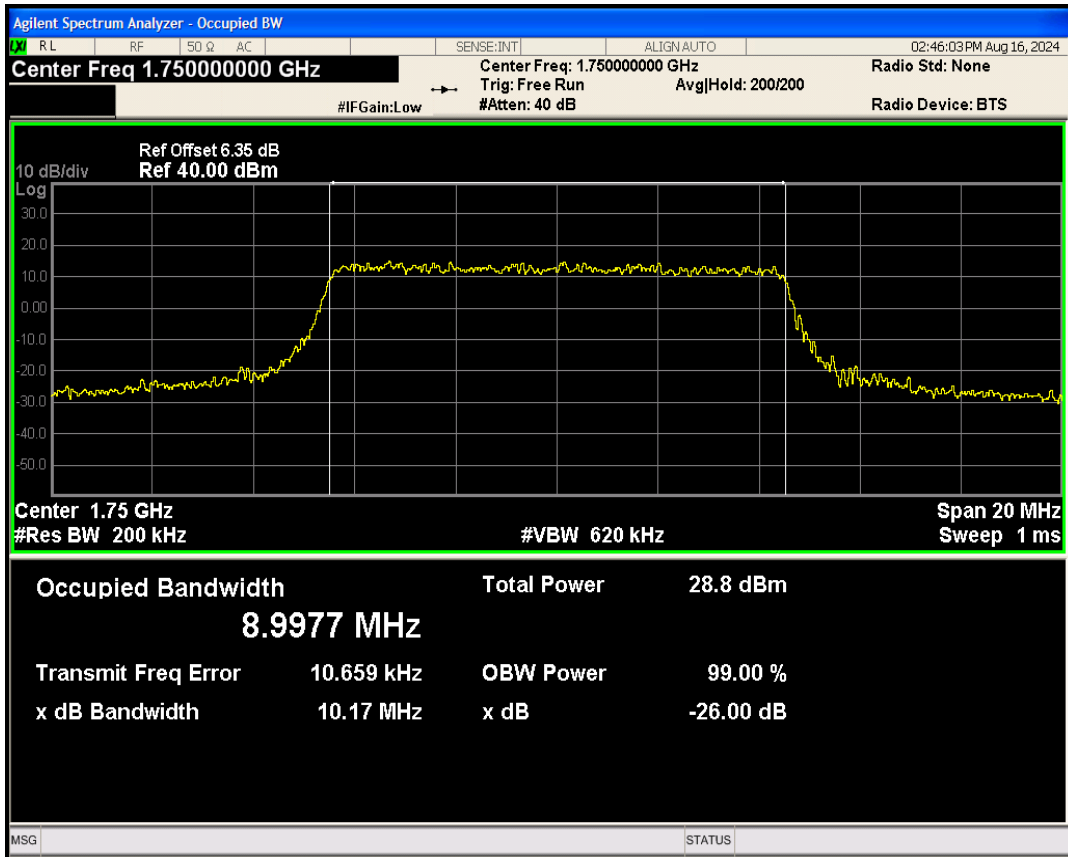
Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



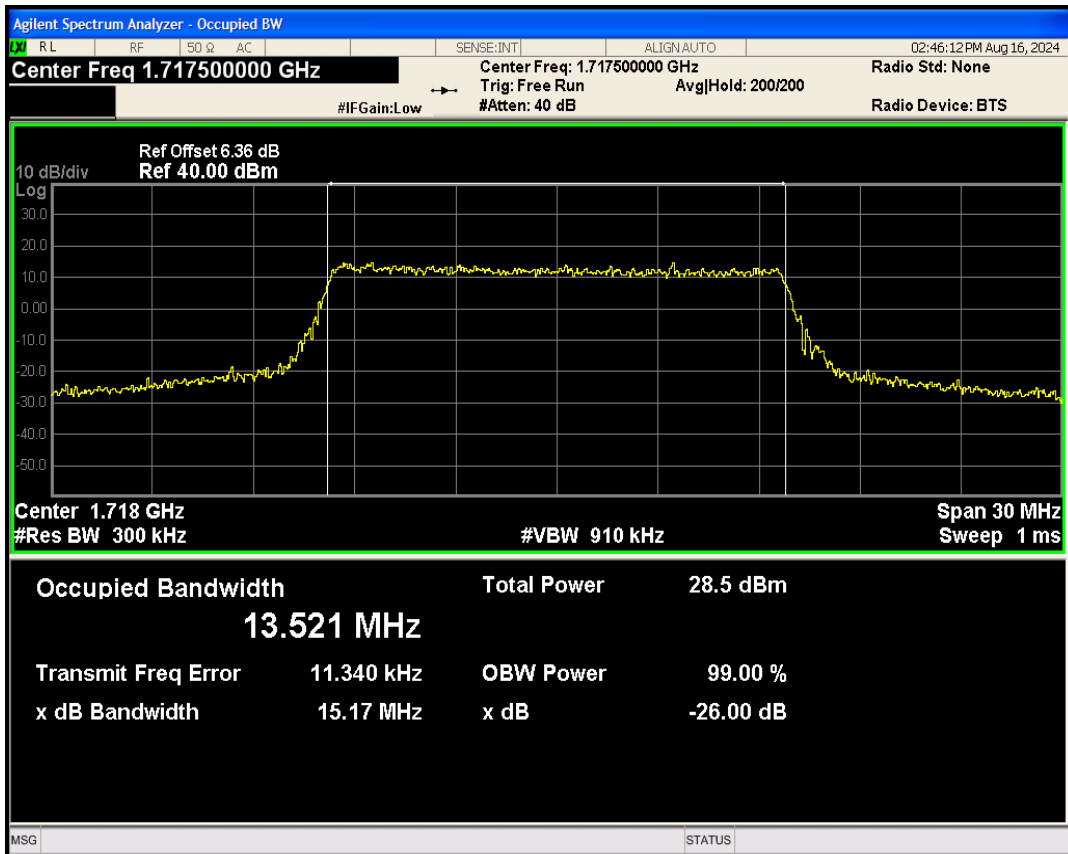
Band4 QPSK BW=10MHz Channel=20175 RB Size=50 Position=#0



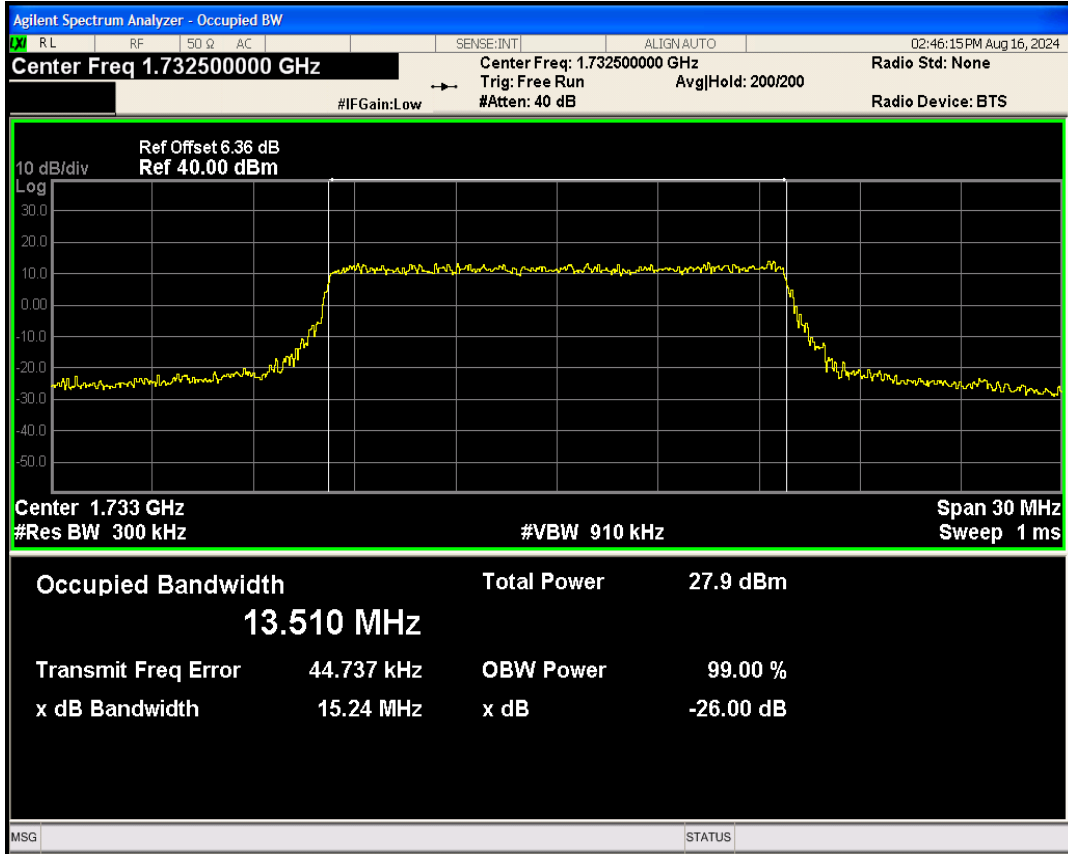
Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0



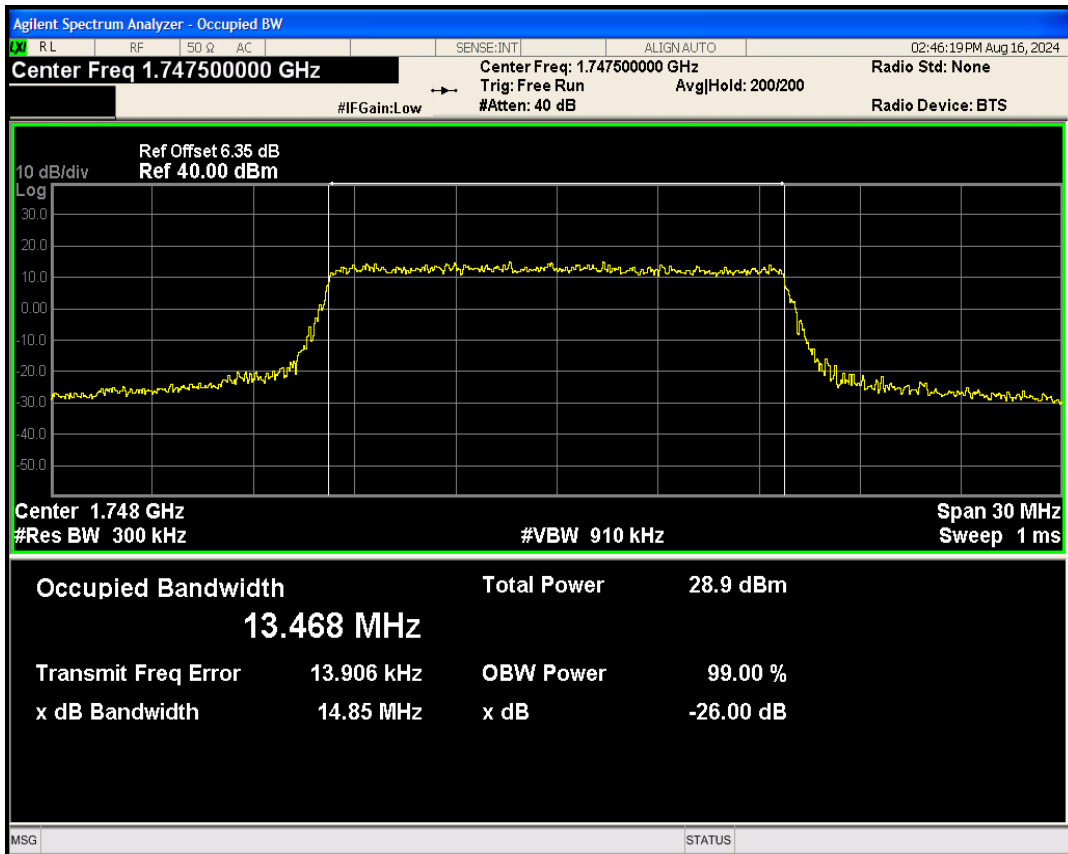
Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0



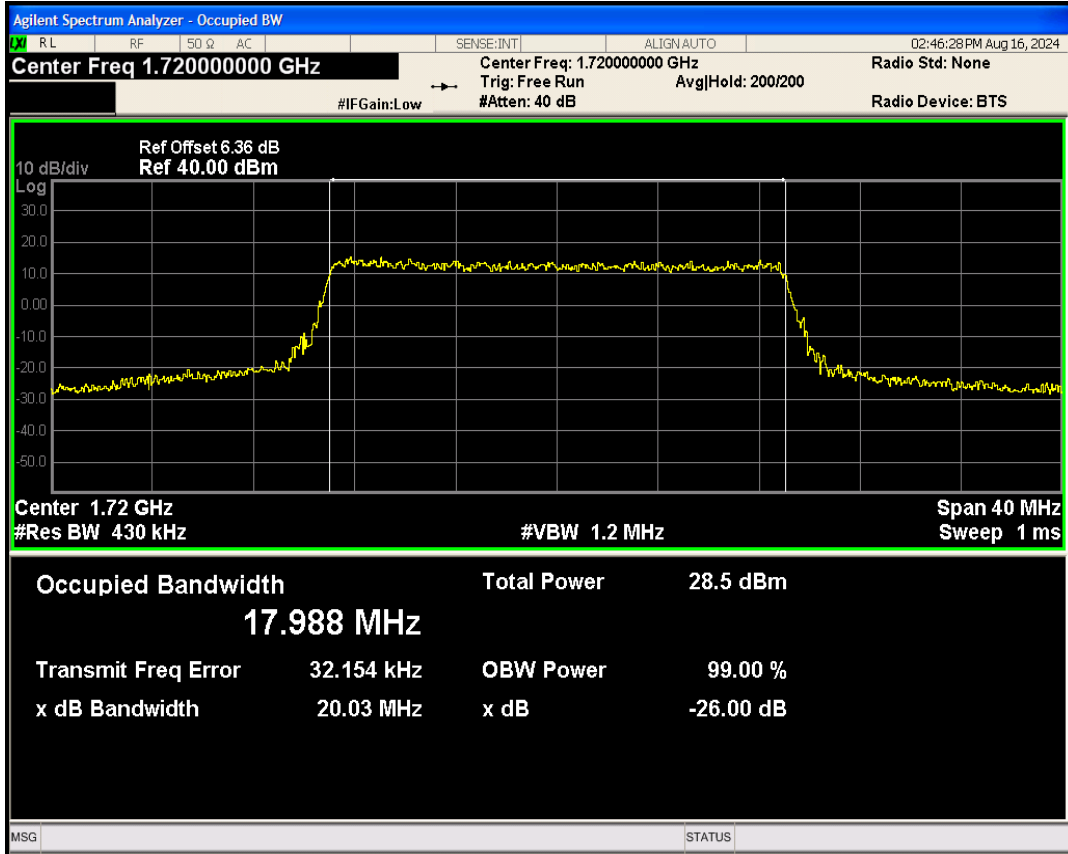
Band4 QPSK BW=15MHz Channel=20175 RB Size=75 Position=#0



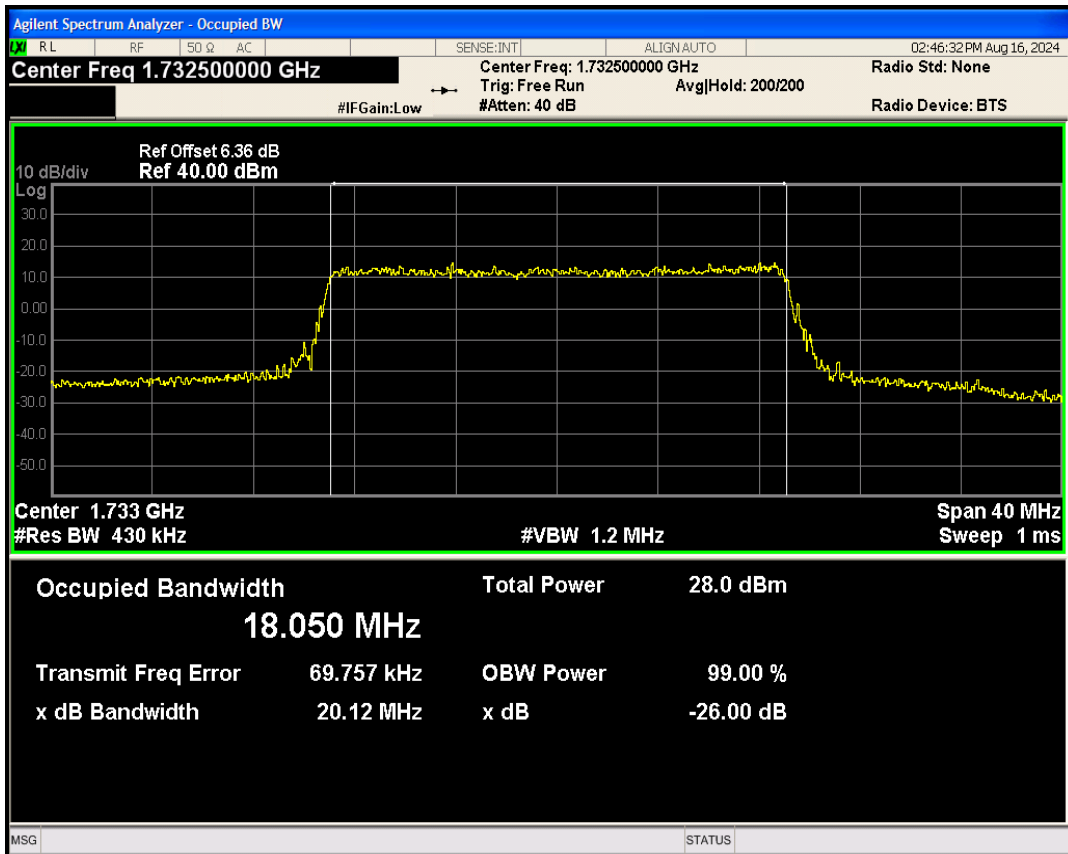
Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0



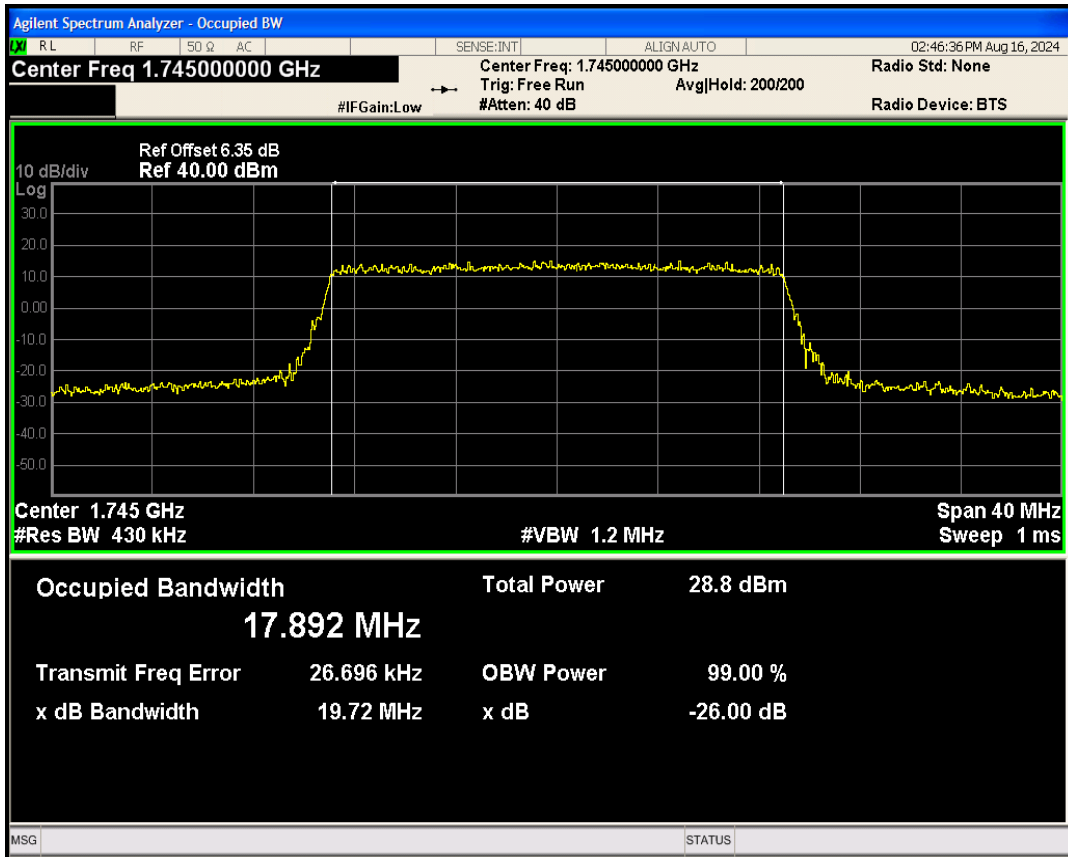
Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0



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



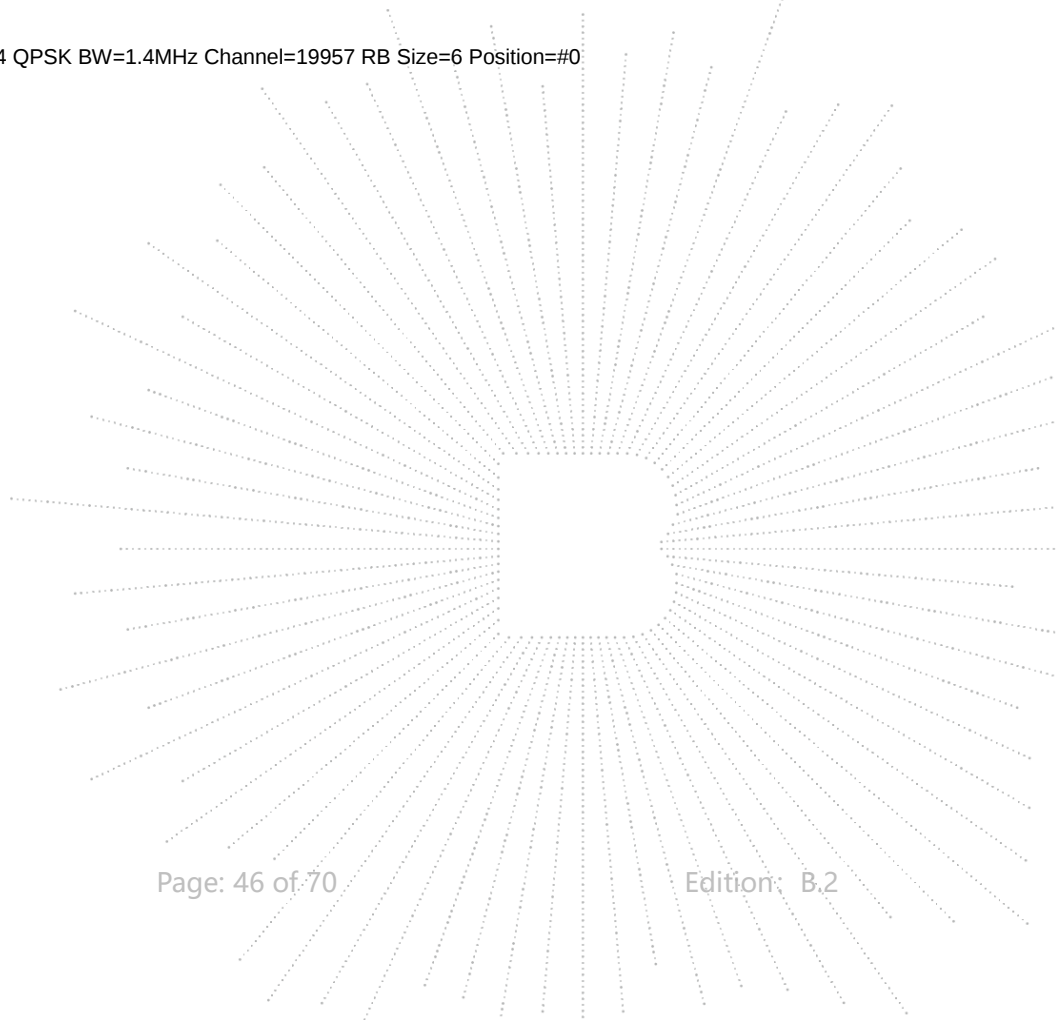
Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0

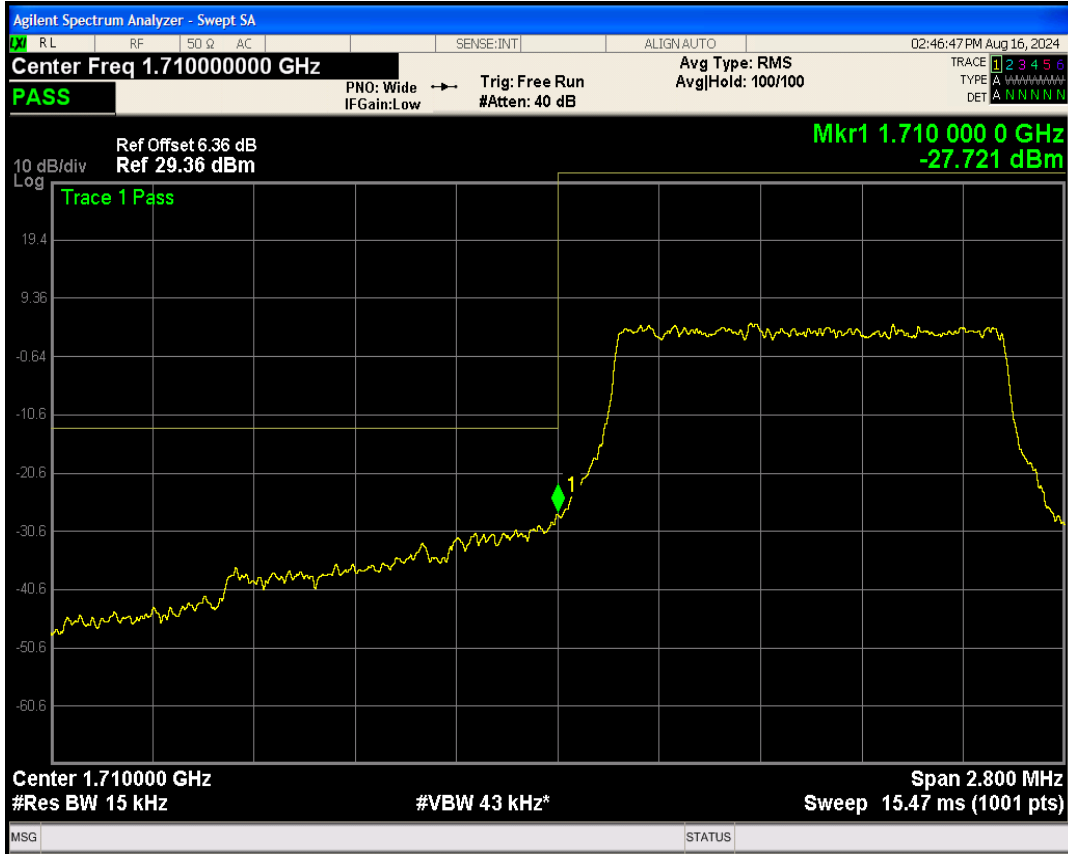


Appendix 5. Band edge

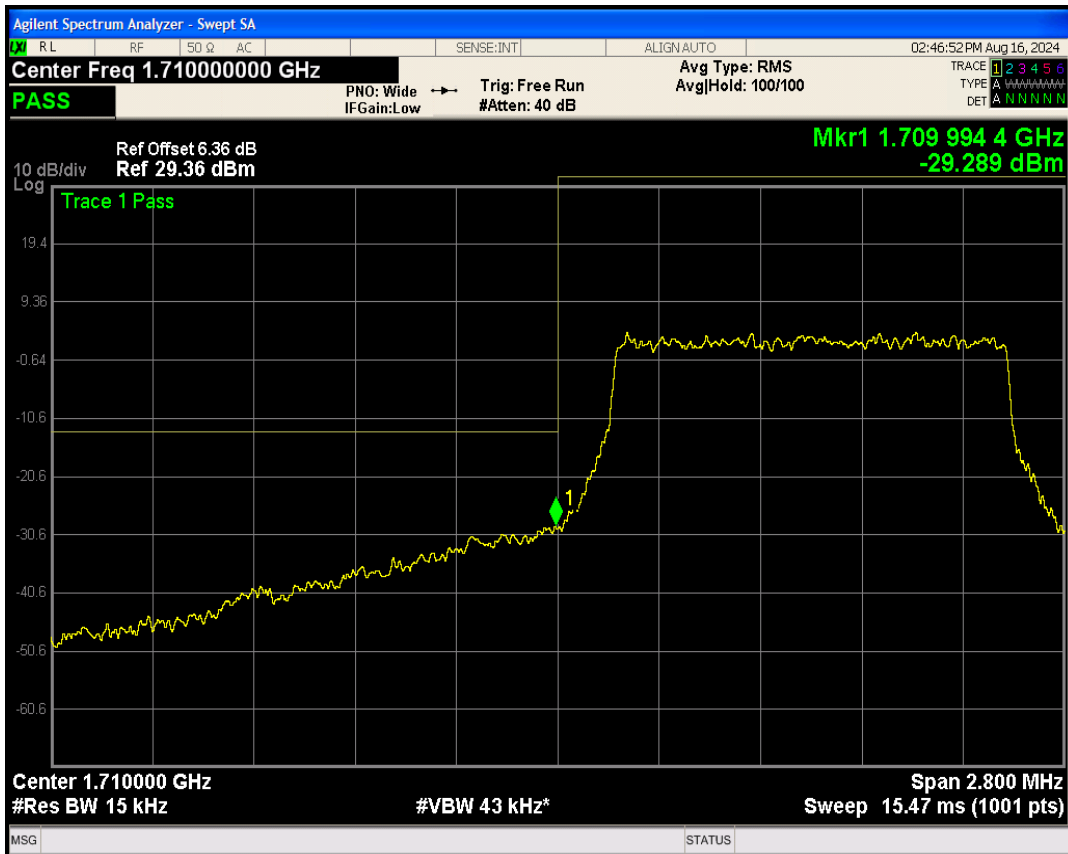
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band4	1.4	19957	6	#0	QPSK	1710.00	-27.72	-13	PASS
Band4	1.4	19957	6	#0	16QAM	1709.99	-29.28	-13	PASS
Band4	1.4	20393	6	#0	QPSK	1755.01	-32.00	-13	PASS
Band4	1.4	20393	6	#0	16QAM	1755.00	-32.80	-13	PASS
Band4	3	19965	15	#0	QPSK	1709.98	-27.84	-13	PASS
Band4	3	19965	15	#0	16QAM	1710.00	-28.44	-13	PASS
Band4	3	20385	15	#0	QPSK	1755.00	-30.22	-13	PASS
Band4	3	20385	15	#0	16QAM	1755.00	-31.91	-13	PASS
Band4	5	19975	25	#0	QPSK	1710.00	-26.16	-13	PASS
Band4	5	19975	25	#0	16QAM	1709.96	-27.78	-13	PASS
Band4	5	20375	25	#0	QPSK	1755.00	-28.90	-13	PASS
Band4	5	20375	25	#0	16QAM	1755.01	-28.65	-13	PASS
Band4	10	20000	50	#0	QPSK	1709.94	-28.75	-13	PASS
Band4	10	20350	50	#0	QPSK	1755.04	-29.53	-13	PASS
Band4	15	20025	75	#0	QPSK	1709.76	-28.76	-13	PASS
Band4	15	20325	75	#0	QPSK	1755.00	-30.14	-13	PASS
Band4	20	20050	100	#0	QPSK	1709.92	-29.71	-13	PASS
Band4	20	20300	100	#0	QPSK	1755.16	-32.31	-13	PASS

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

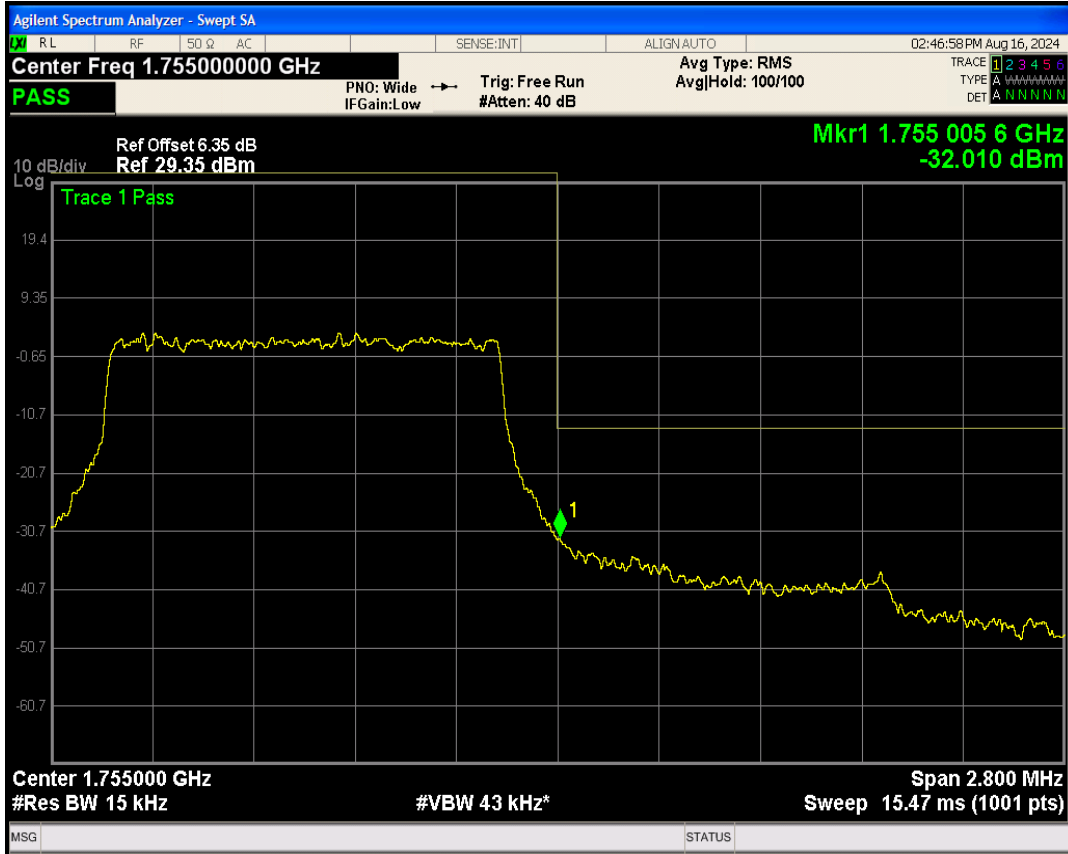




Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0



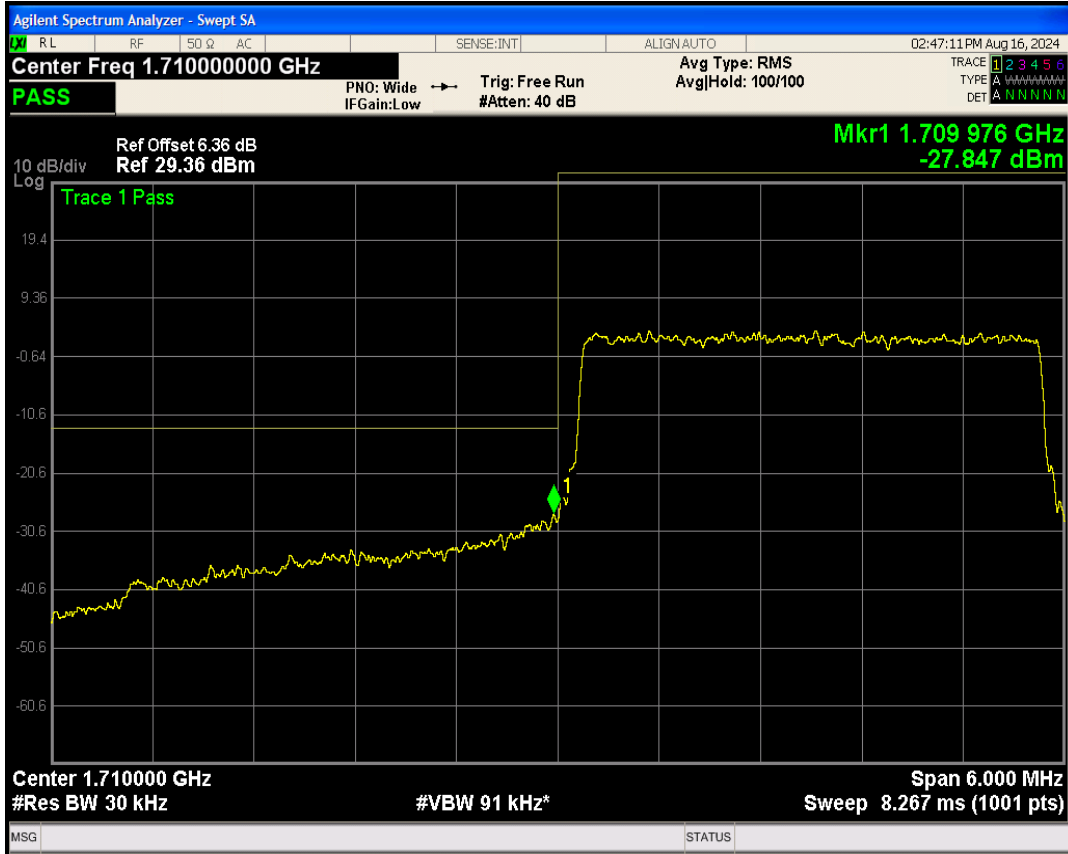
Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0



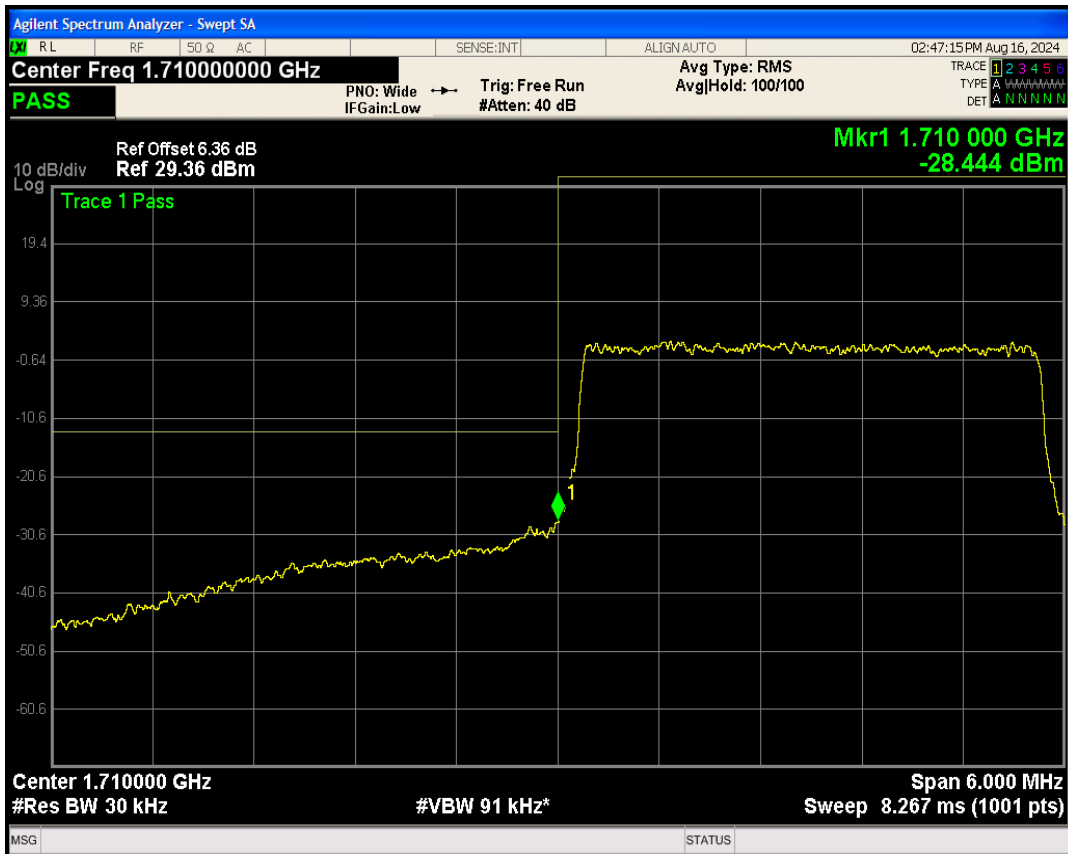
Band4 16QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0



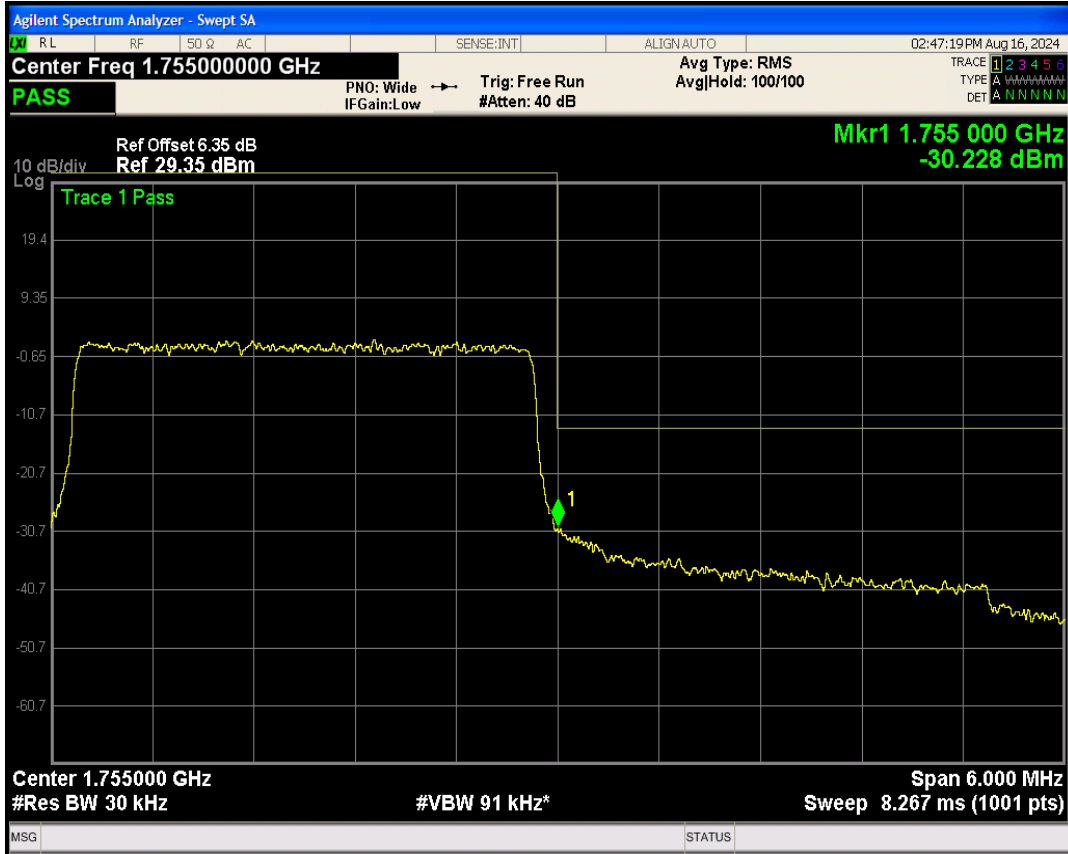
Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



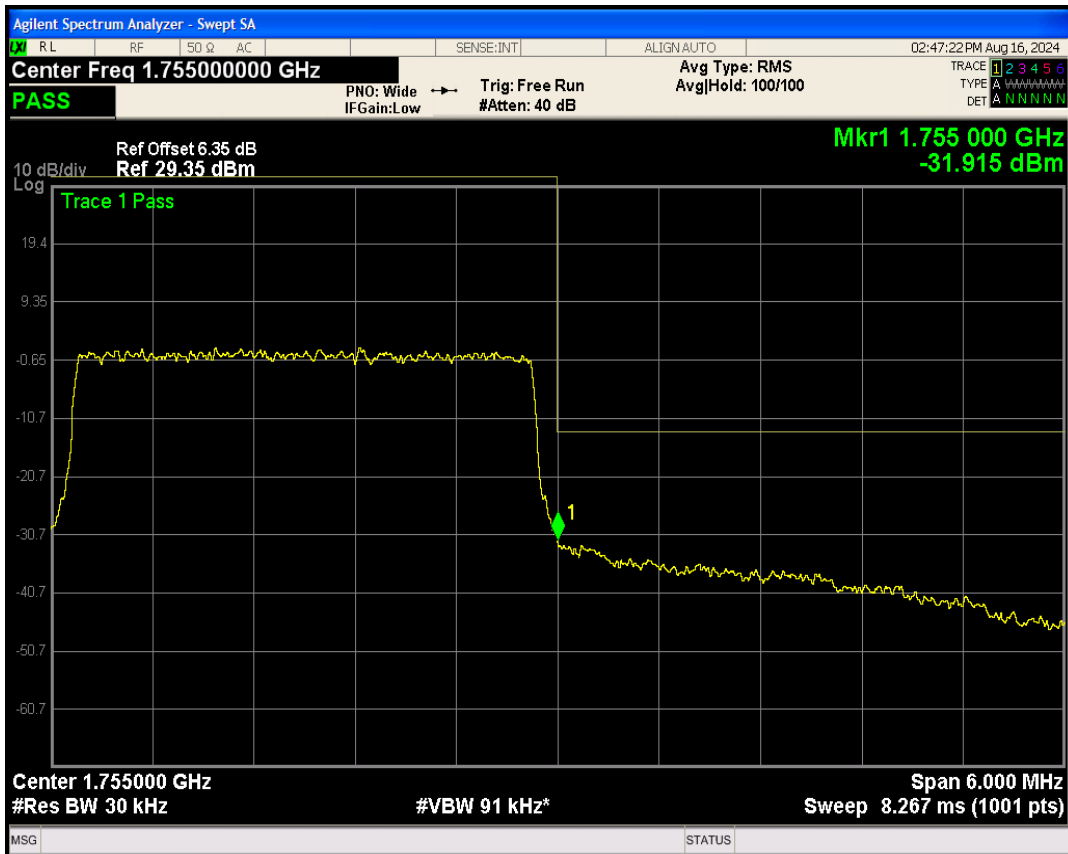
Band4 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0



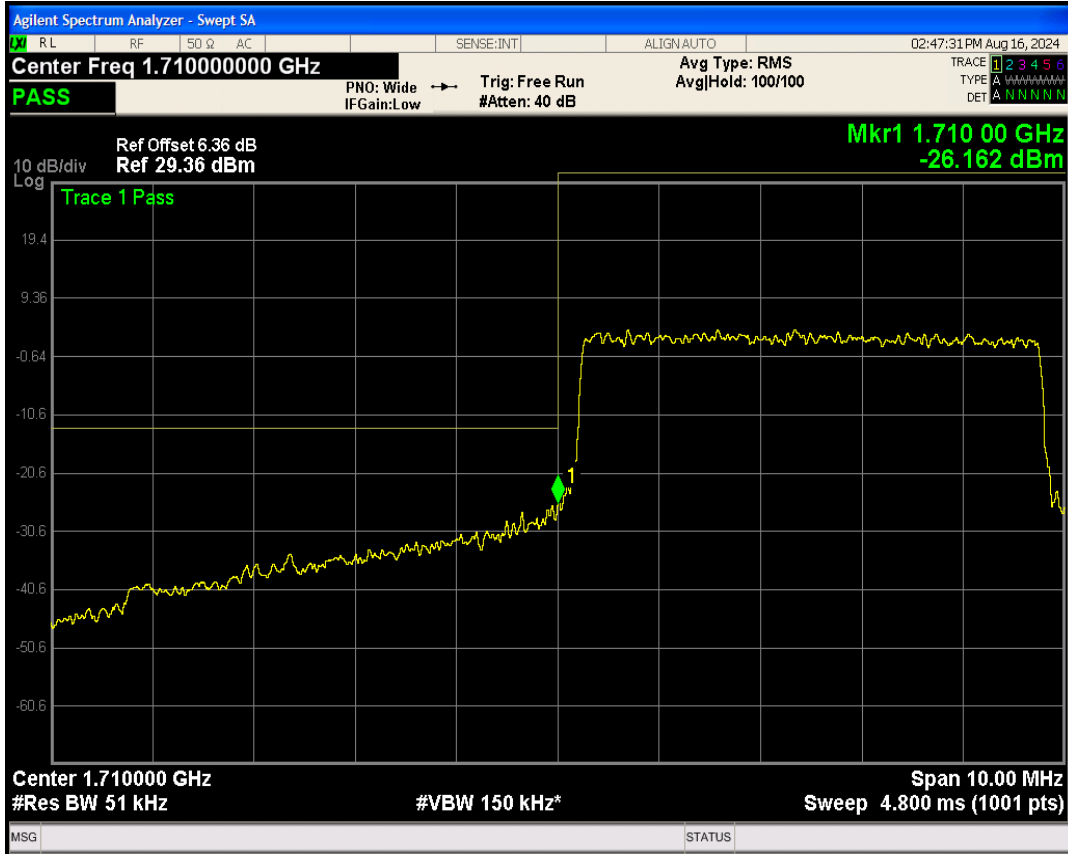
Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0



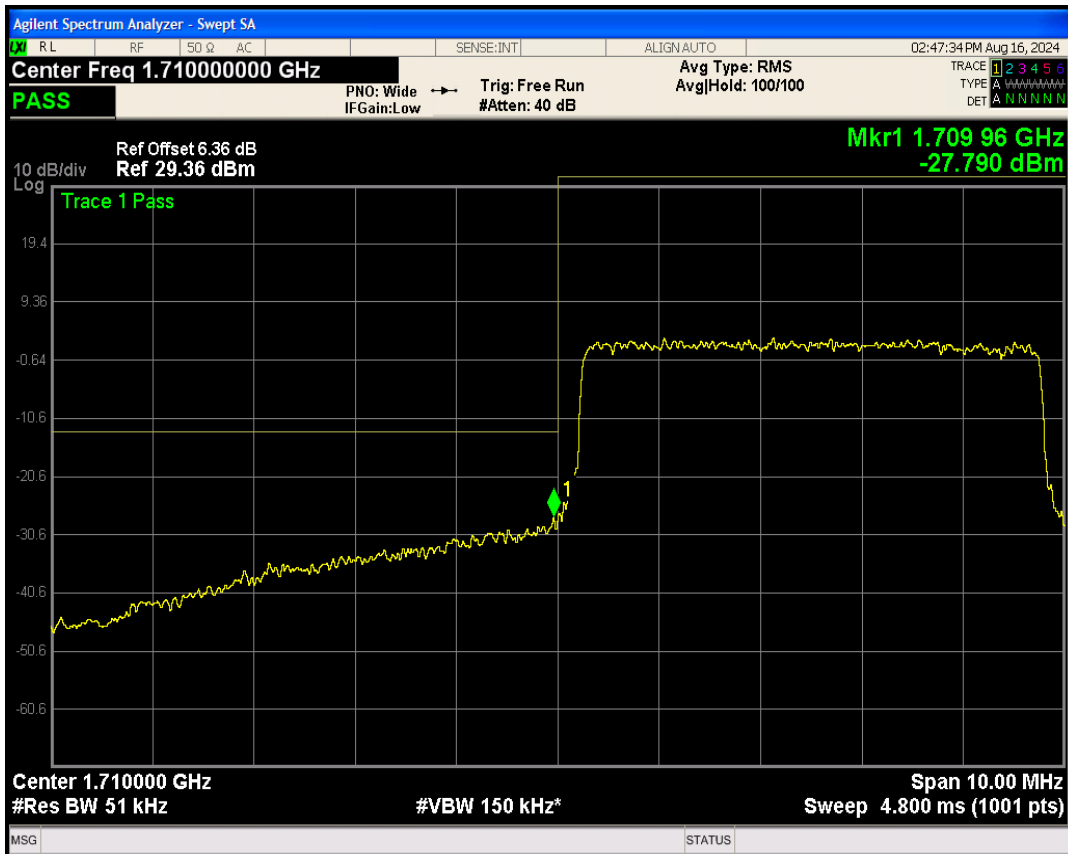
Band4 16QAM BW=3MHz Channel=20385 RB Size=15 Position=#0



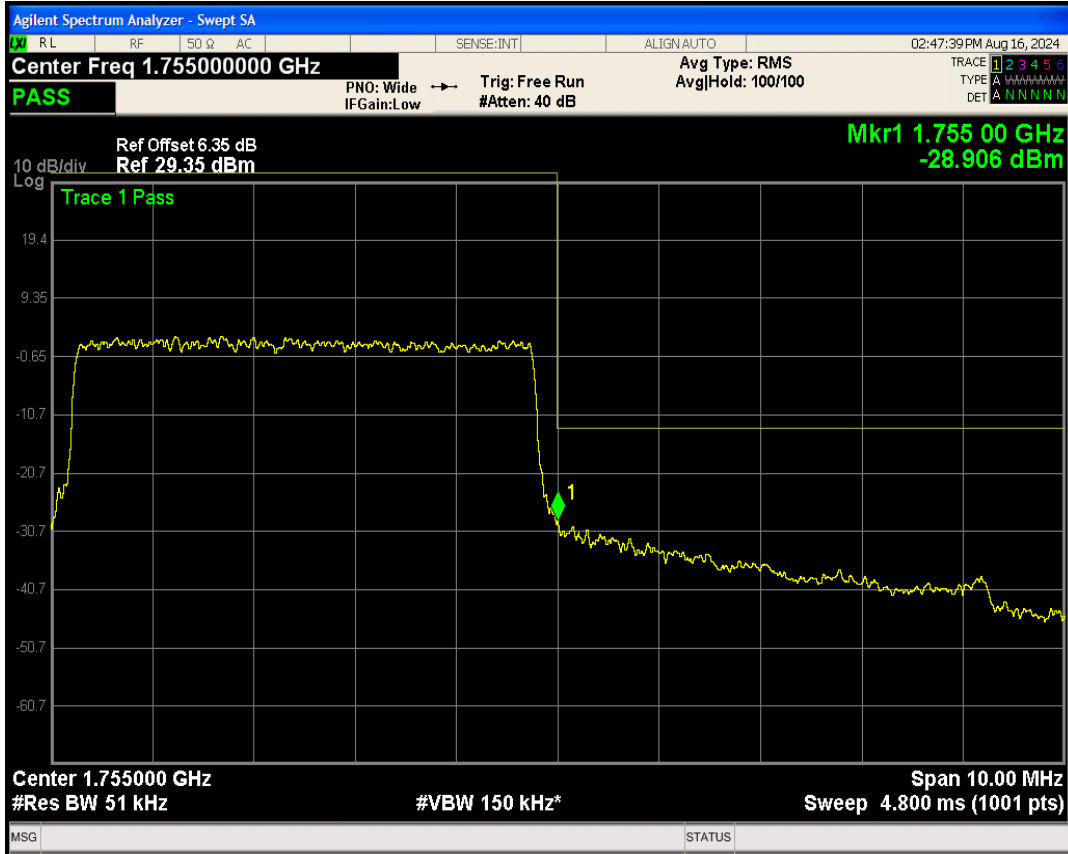
Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0



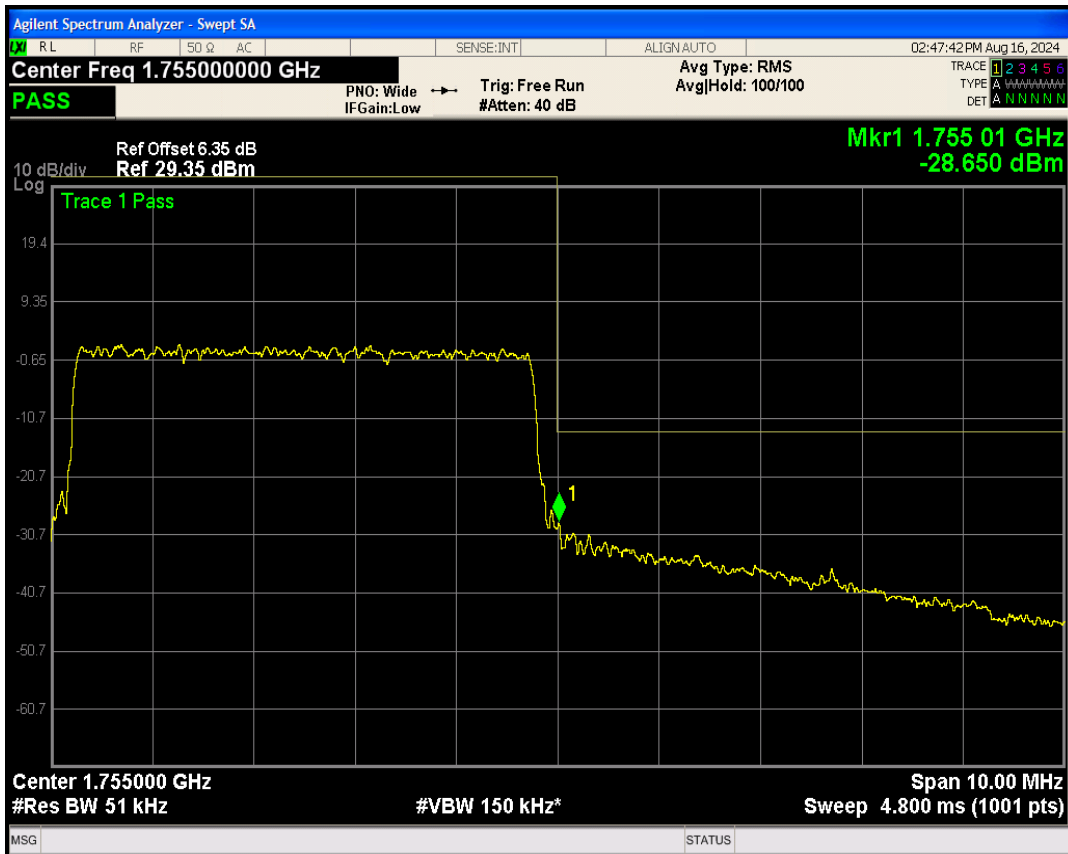
Band4 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0



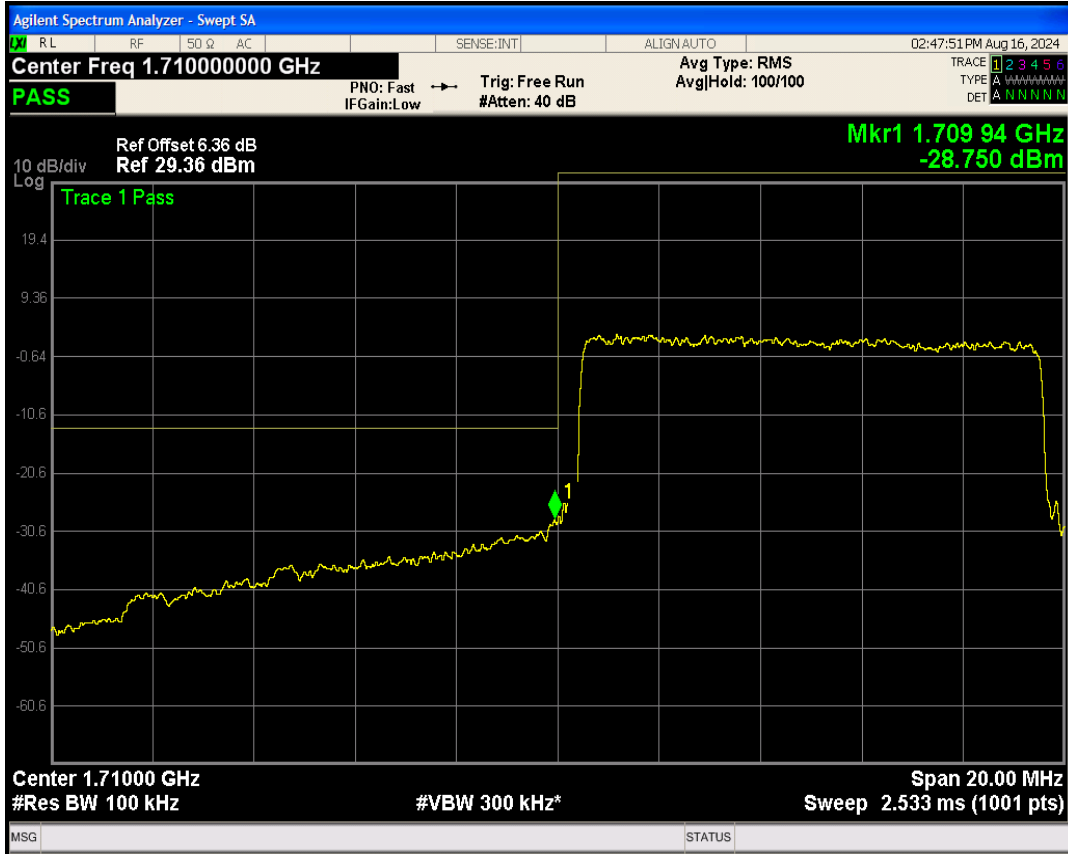
Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0



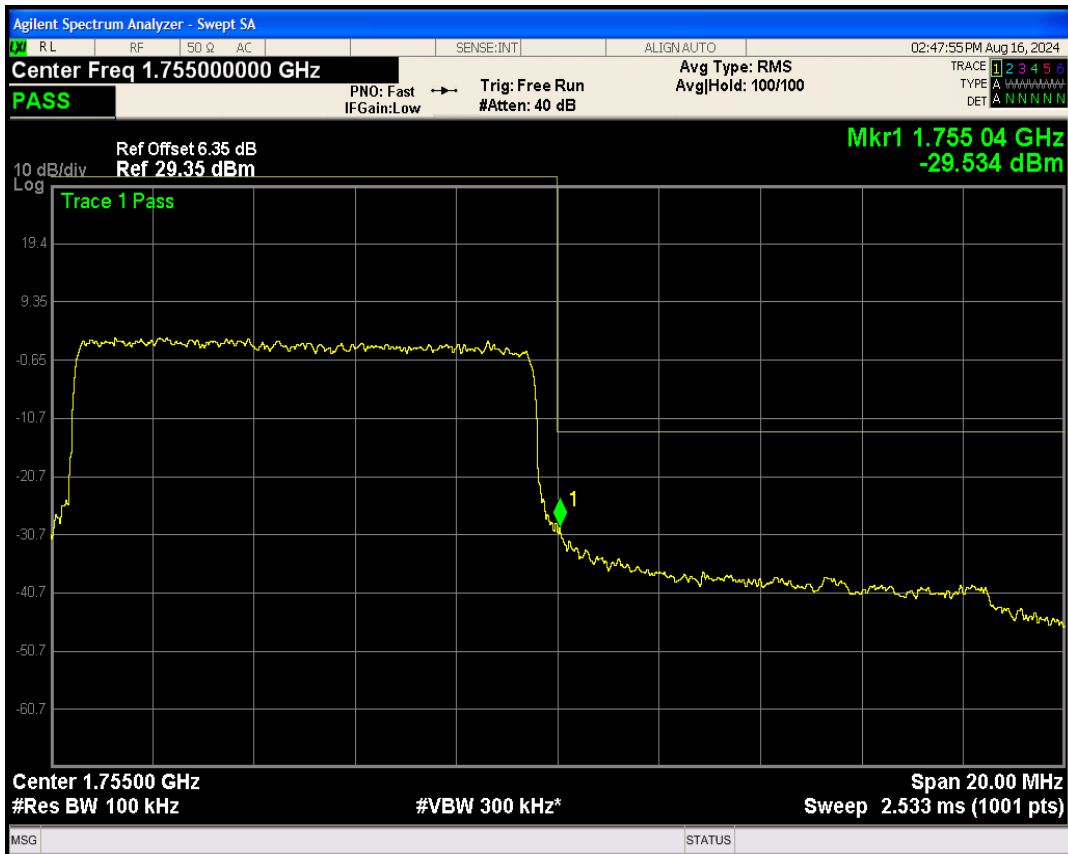
Band4 16QAM BW=5MHz Channel=20375 RB Size=25 Position=#0



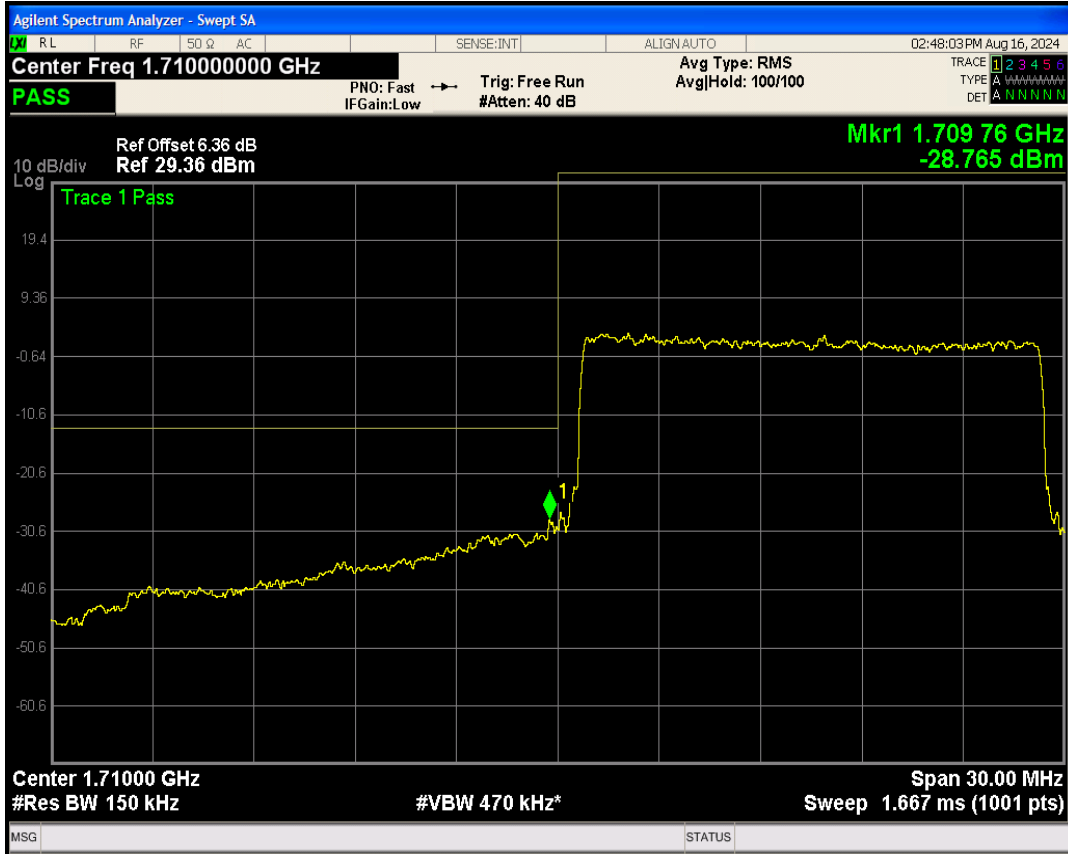
Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



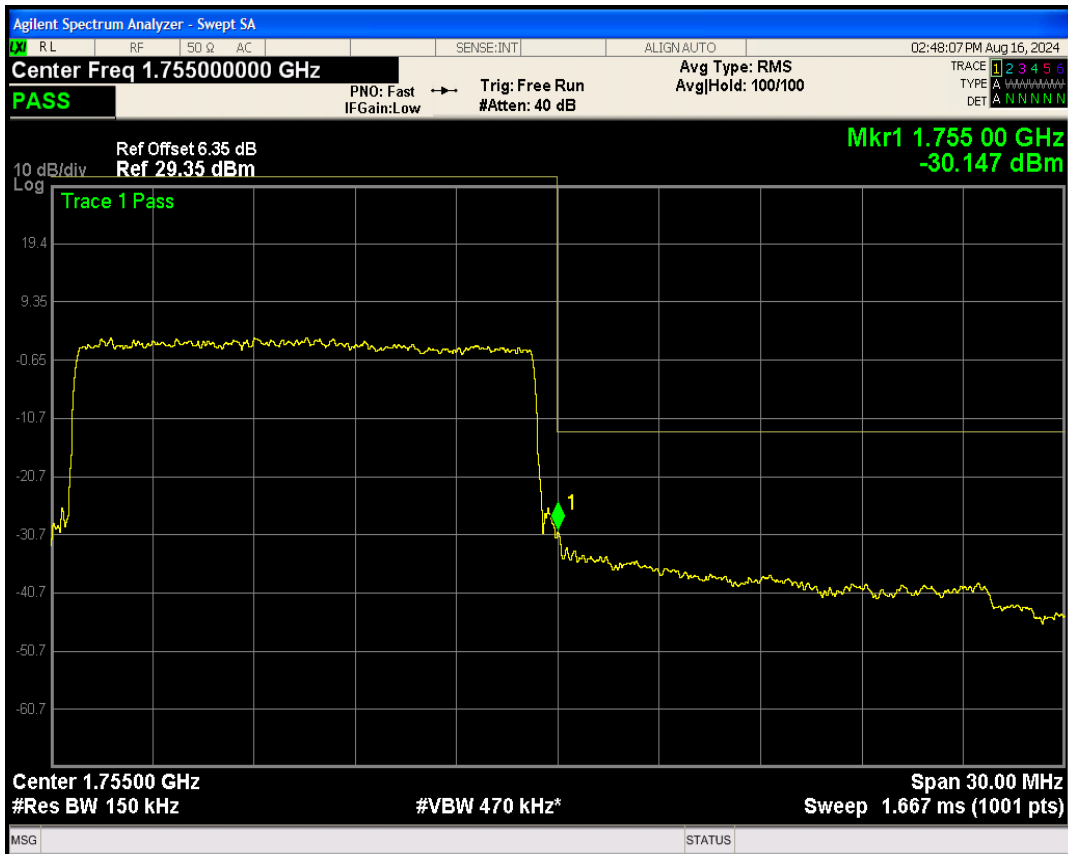
Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0



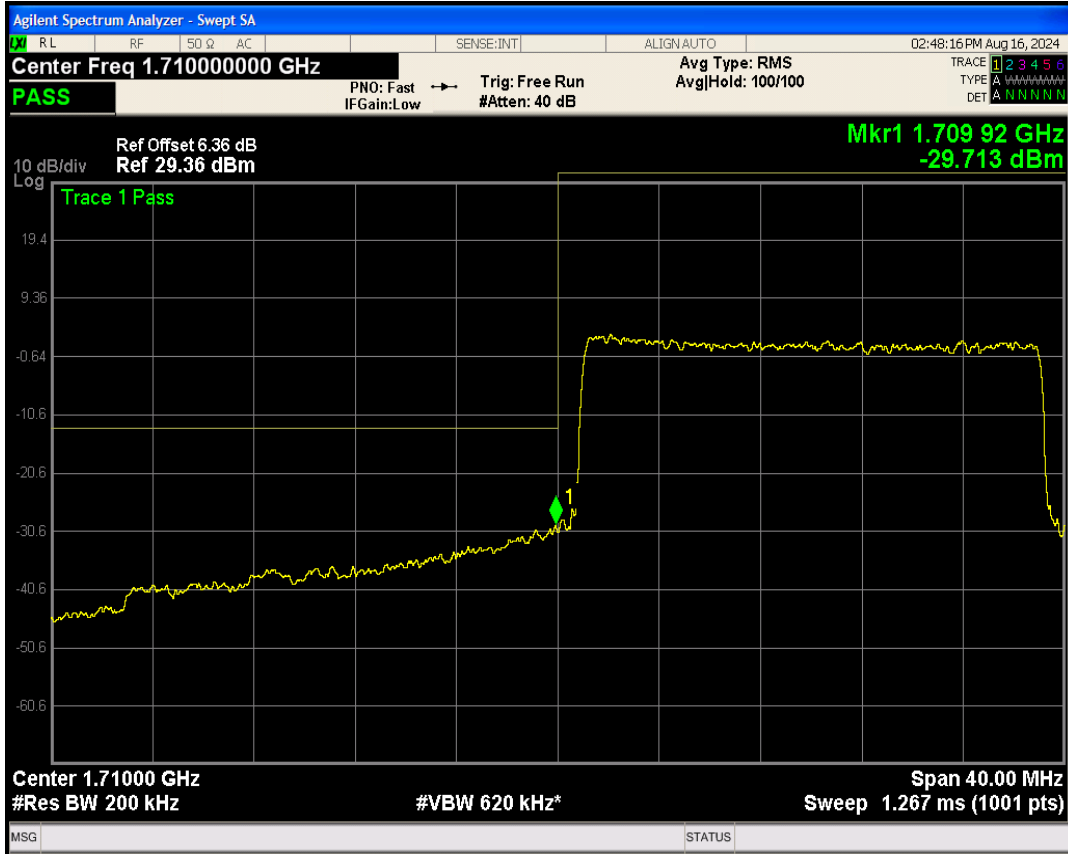
Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0



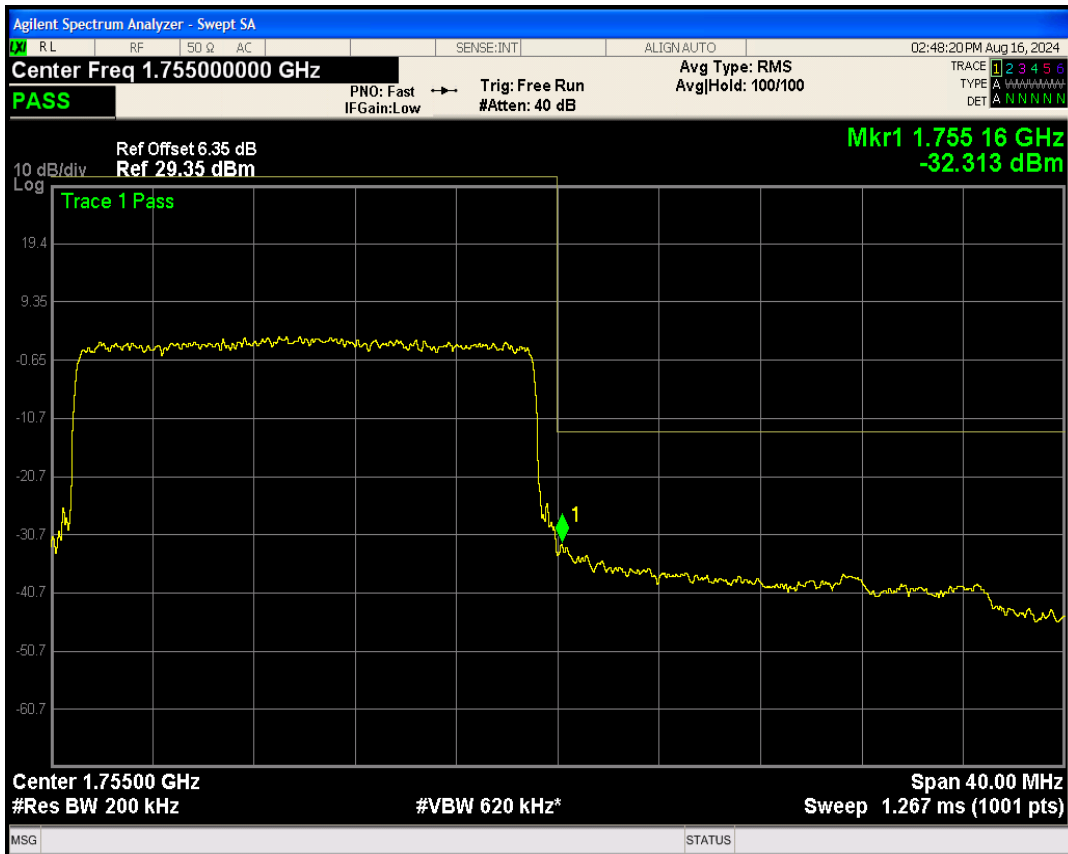
Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0



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



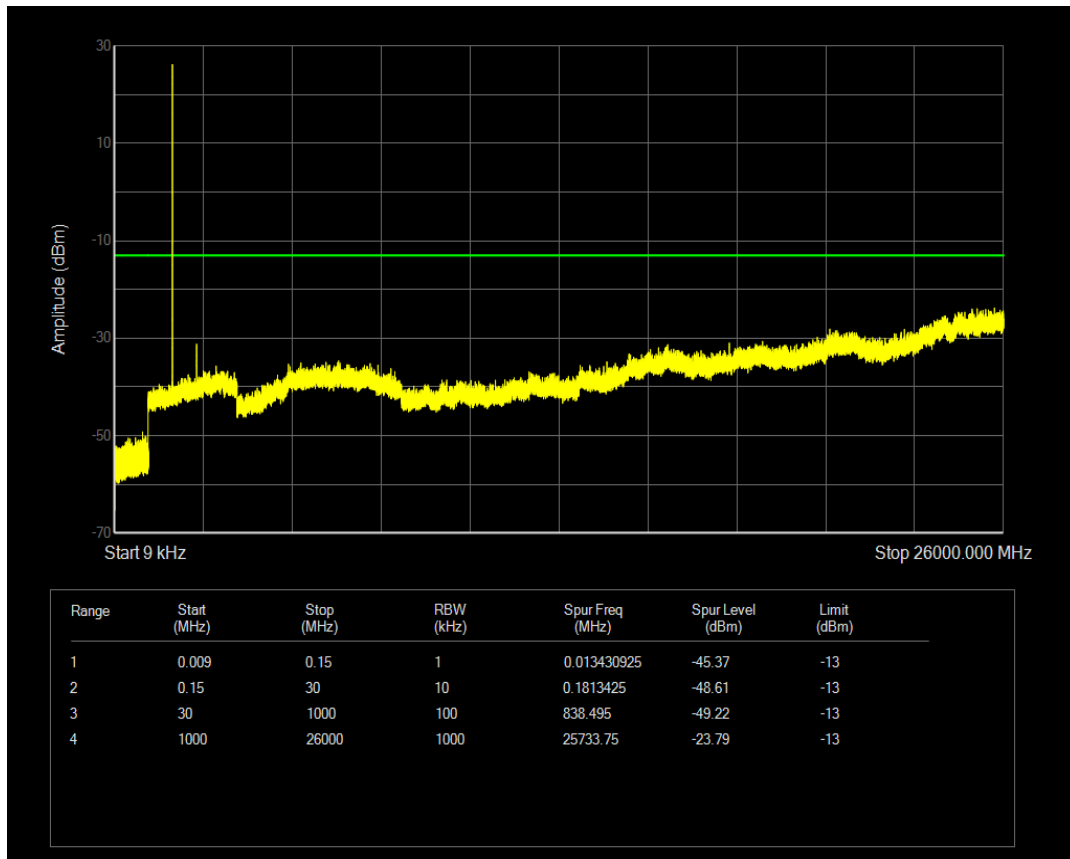
Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0



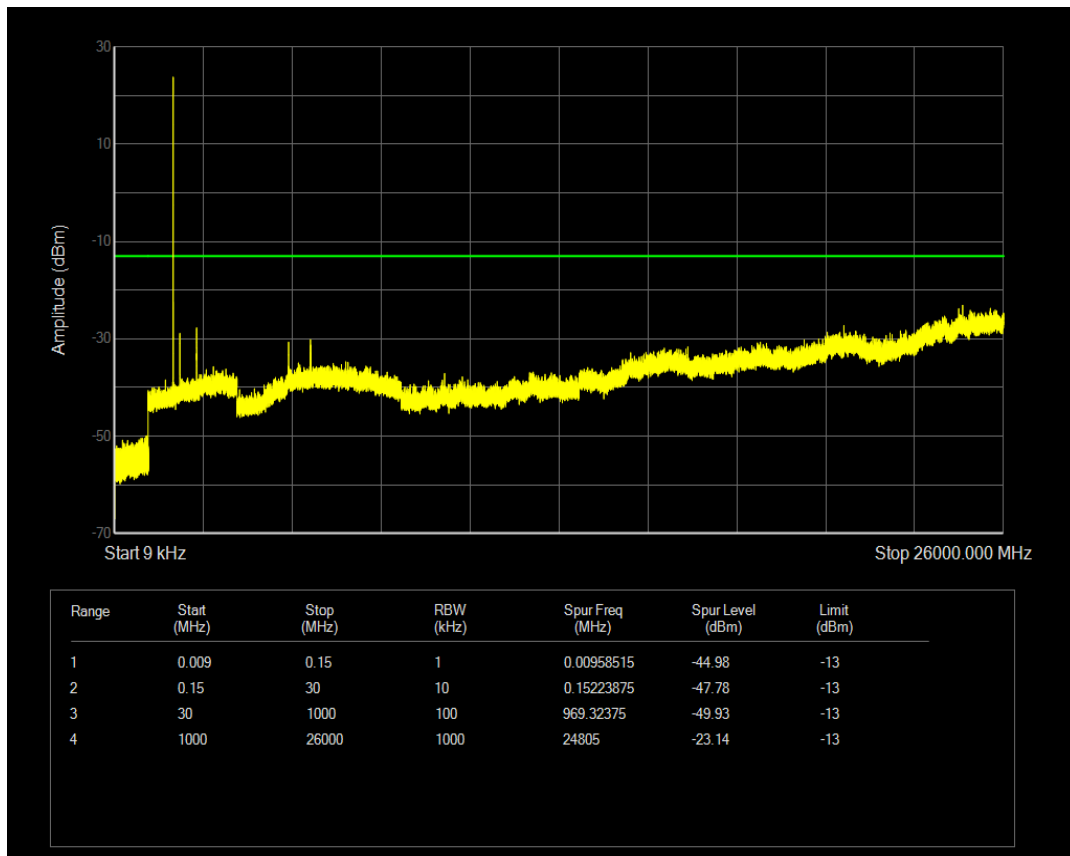
Appendix 6. Out-of-band emissions

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	25701.88	-23.93	-13	PASS
Band4	1.4	19957	6	#0	16QAM	25733.75	-23.79	-13	PASS
Band4	1.4	20175	6	#0	QPSK	25789.38	-23.49	-13	PASS
Band4	1.4	20175	6	#0	16QAM	24805.00	-23.14	-13	PASS
Band4	1.4	20393	6	#0	QPSK	24683.13	-23.77	-13	PASS
Band4	1.4	20393	6	#0	16QAM	25052.50	-23.34	-13	PASS
Band4	3	19965	15	#0	QPSK	24276.88	-23.67	-13	PASS
Band4	3	19965	15	#0	16QAM	25353.13	-22.99	-13	PASS
Band4	3	20175	15	#0	QPSK	25956.88	-22.65	-13	PASS
Band4	3	20175	15	#0	16QAM	25787.50	-23.35	-13	PASS
Band4	3	20385	15	#0	QPSK	25776.88	-24.04	-13	PASS
Band4	3	20385	15	#0	16QAM	25811.25	-23.02	-13	PASS
Band4	5	19975	25	#0	QPSK	25971.25	-22.91	-13	PASS
Band4	5	19975	25	#0	16QAM	25216.88	-23.30	-13	PASS
Band4	5	20175	25	#0	QPSK	25771.88	-23.90	-13	PASS
Band4	5	20175	25	#0	16QAM	25740.00	-23.65	-13	PASS
Band4	5	20375	25	#0	QPSK	25705.63	-23.78	-13	PASS
Band4	5	20375	25	#0	16QAM	25931.25	-23.76	-13	PASS
Band4	10	20000	50	#0	QPSK	25510.63	-23.56	-13	PASS
Band4	10	20175	50	#0	QPSK	25390.00	-22.76	-13	PASS
Band4	10	20350	50	#0	QPSK	24656.25	-23.25	-13	PASS
Band4	15	20025	75	#0	QPSK	24668.13	-23.81	-13	PASS
Band4	15	20175	75	#0	QPSK	25760.63	-23.54	-13	PASS
Band4	15	20325	75	#0	QPSK	25920.00	-23.37	-13	PASS
Band4	20	20050	100	#0	QPSK	25880.00	-23.48	-13	PASS
Band4	20	20175	100	#0	QPSK	25997.50	-22.76	-13	PASS
Band4	20	20300	100	#0	QPSK	25136.25	-23.57	-13	PASS

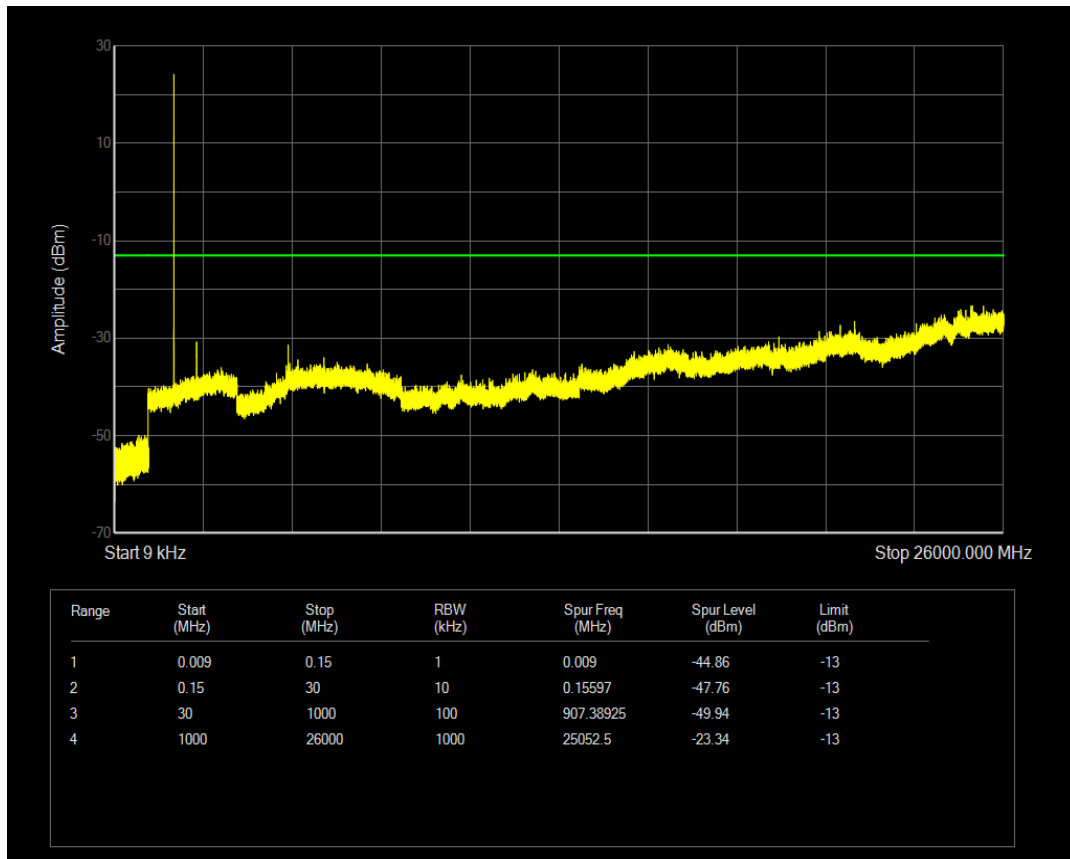
Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0



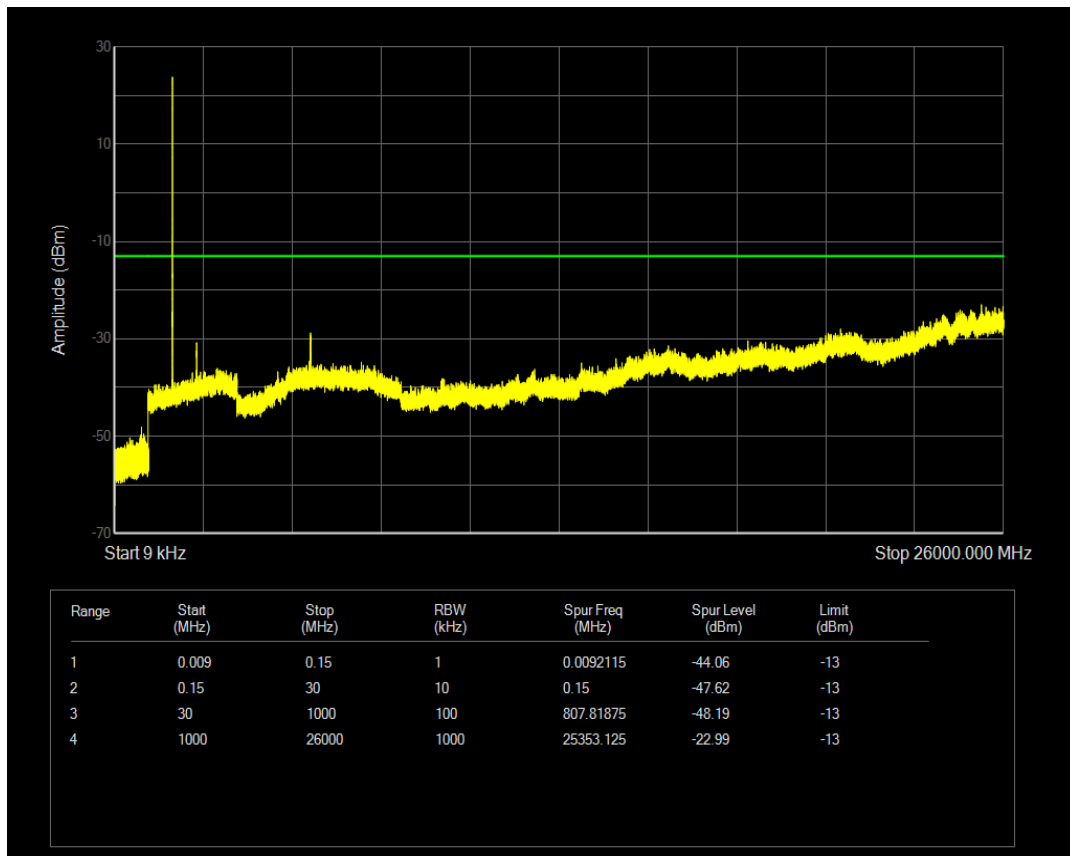
Band4 16QAM BW=1.4MHz Channel=20175 RB Size=6 Position=#0



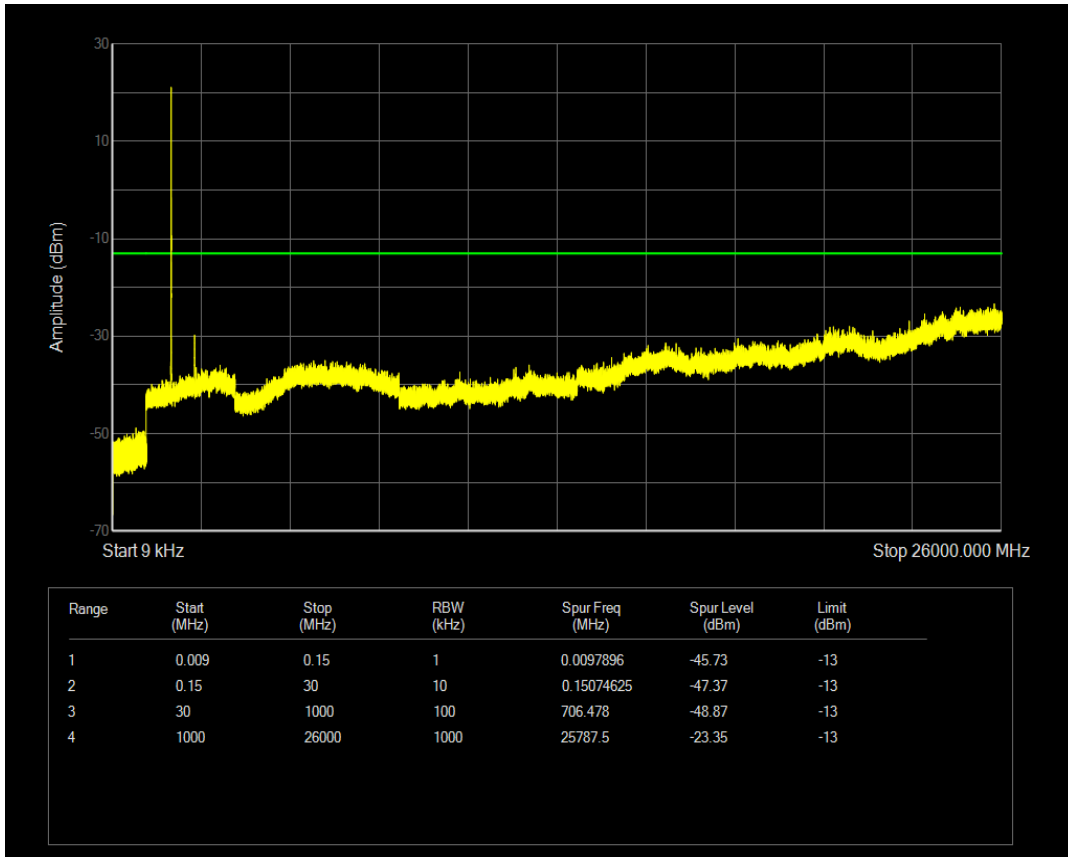
Band4 16QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0



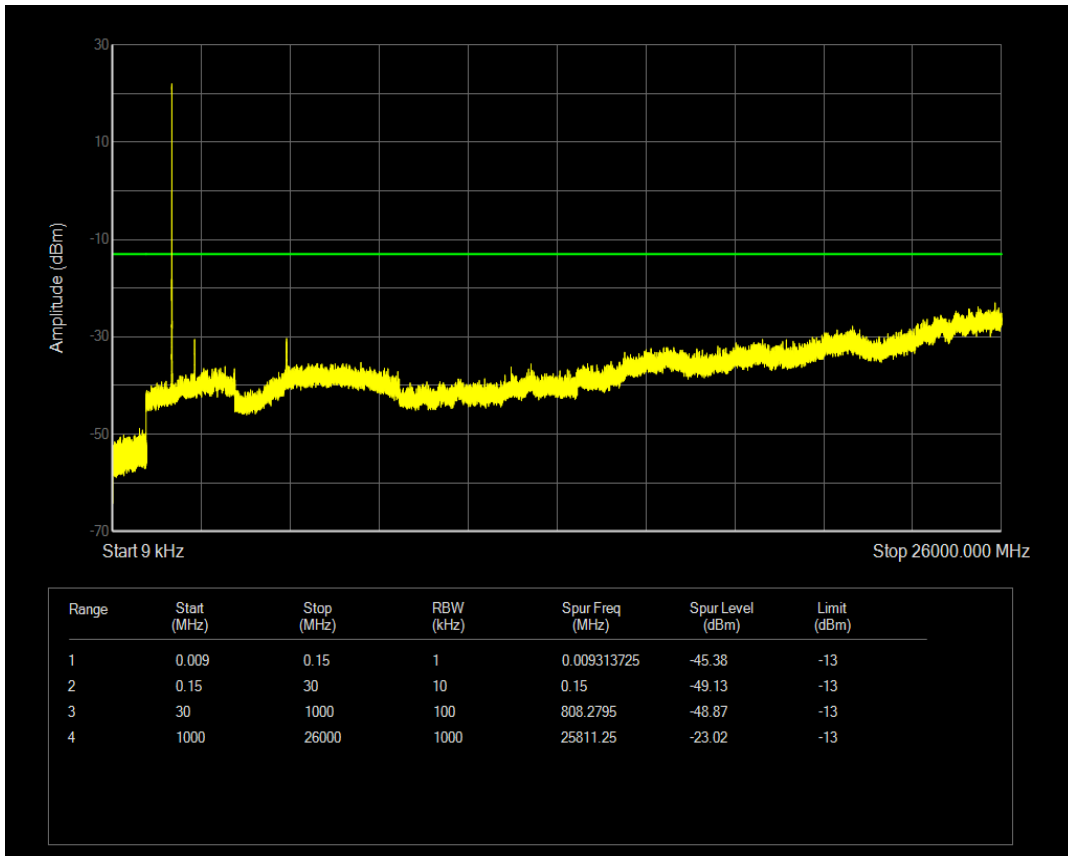
Band4 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0



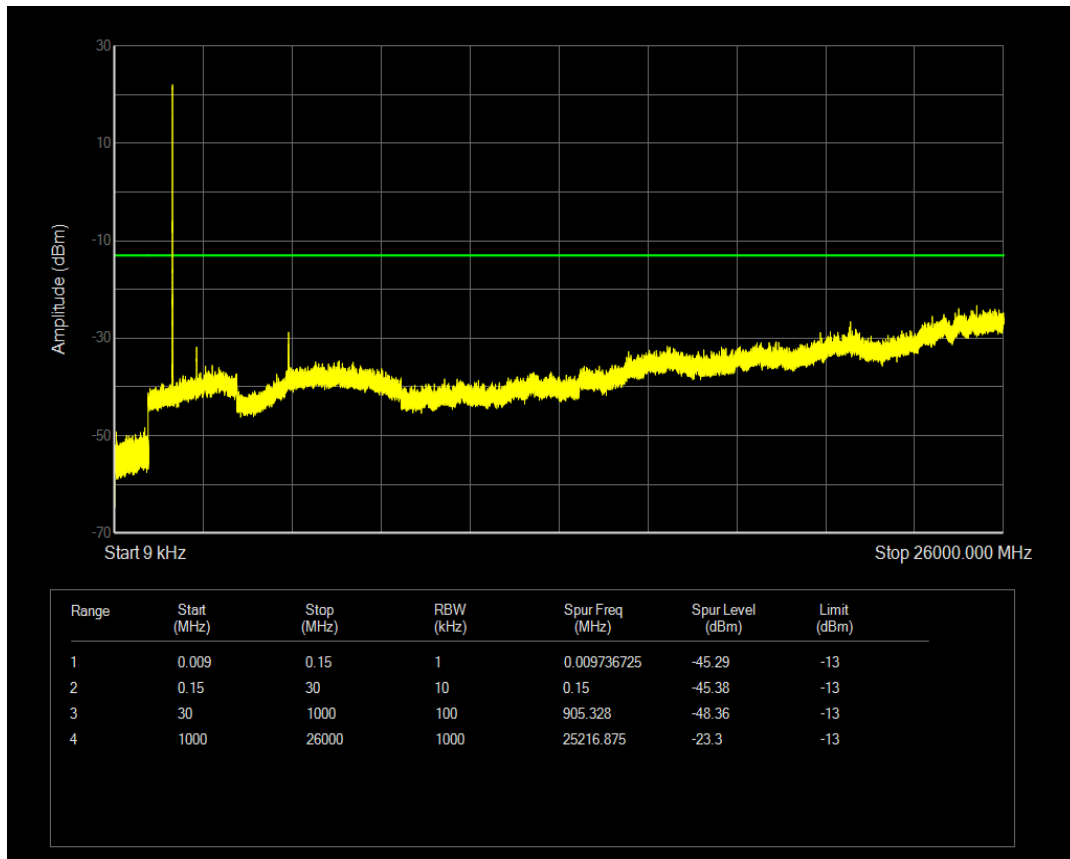
Band4 16QAM BW=3MHz Channel=20175 RB Size=15 Position=#0



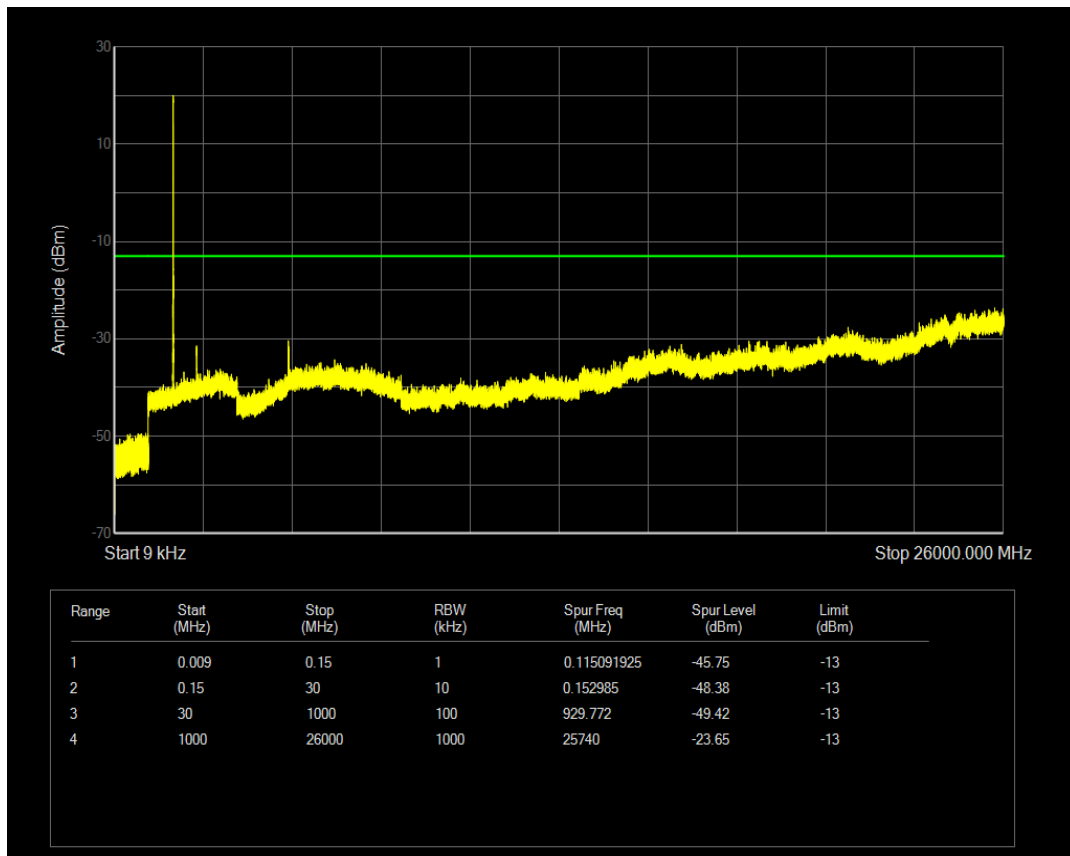
Band4 16QAM BW=3MHz Channel=20385 RB Size=15 Position=#0



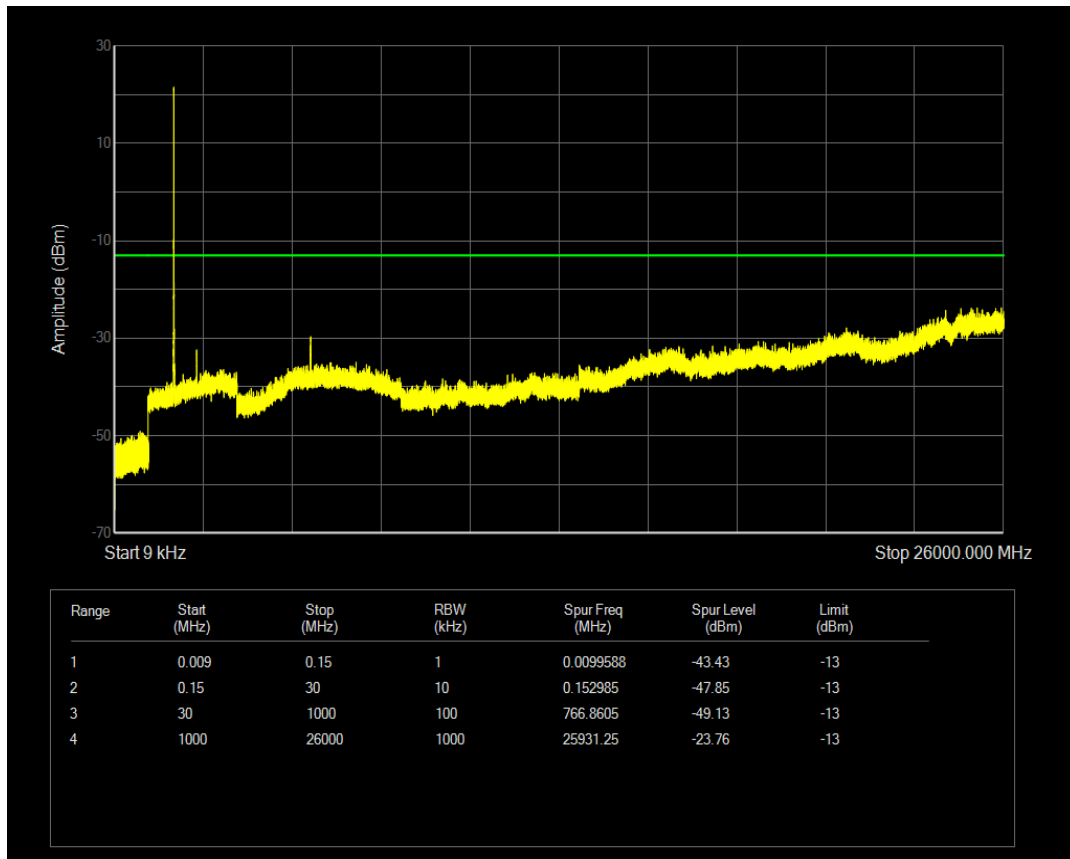
Band4 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0



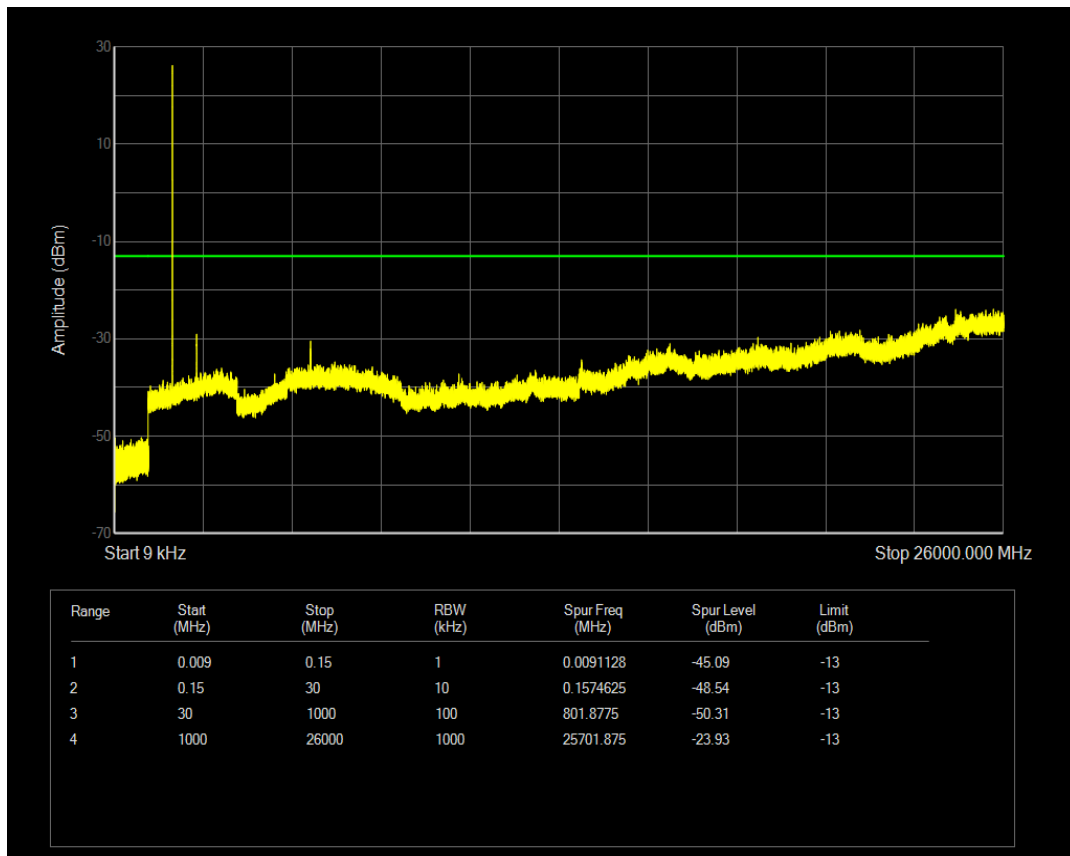
Band4 16QAM BW=5MHz Channel=20175 RB Size=25 Position=#0



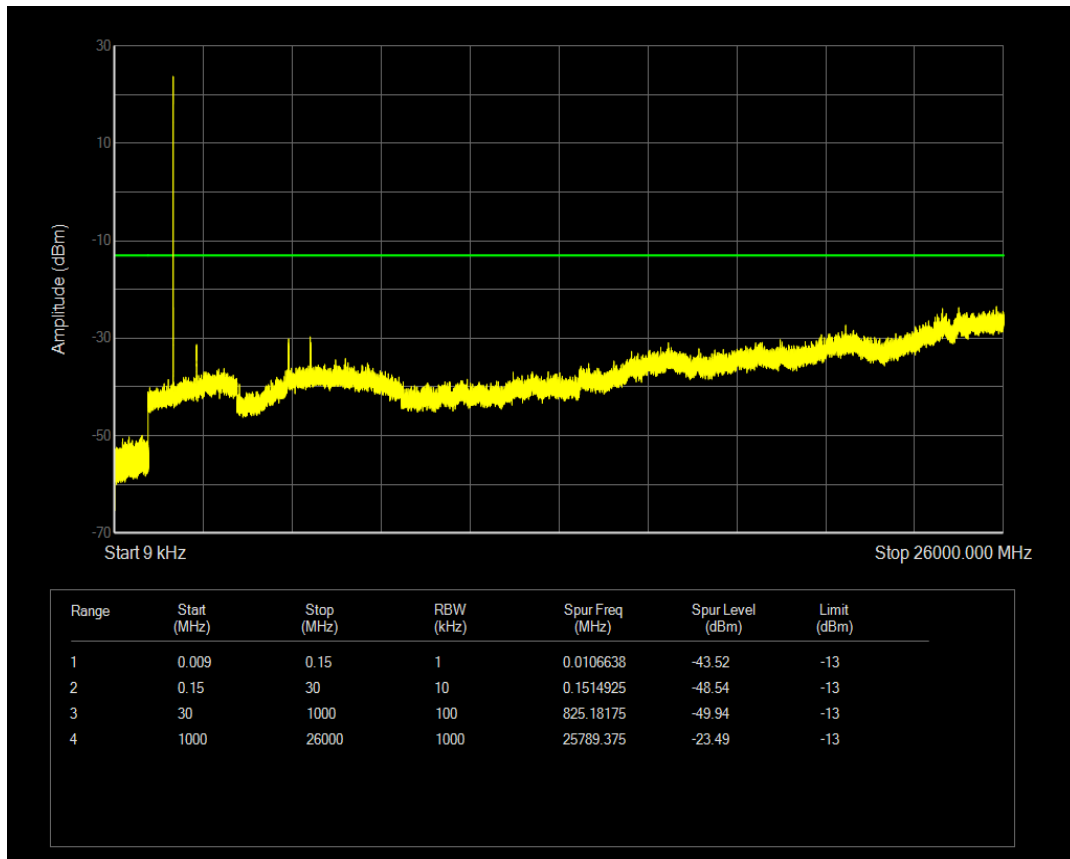
Band4 16QAM BW=5MHz Channel=20375 RB Size=25 Position=#0



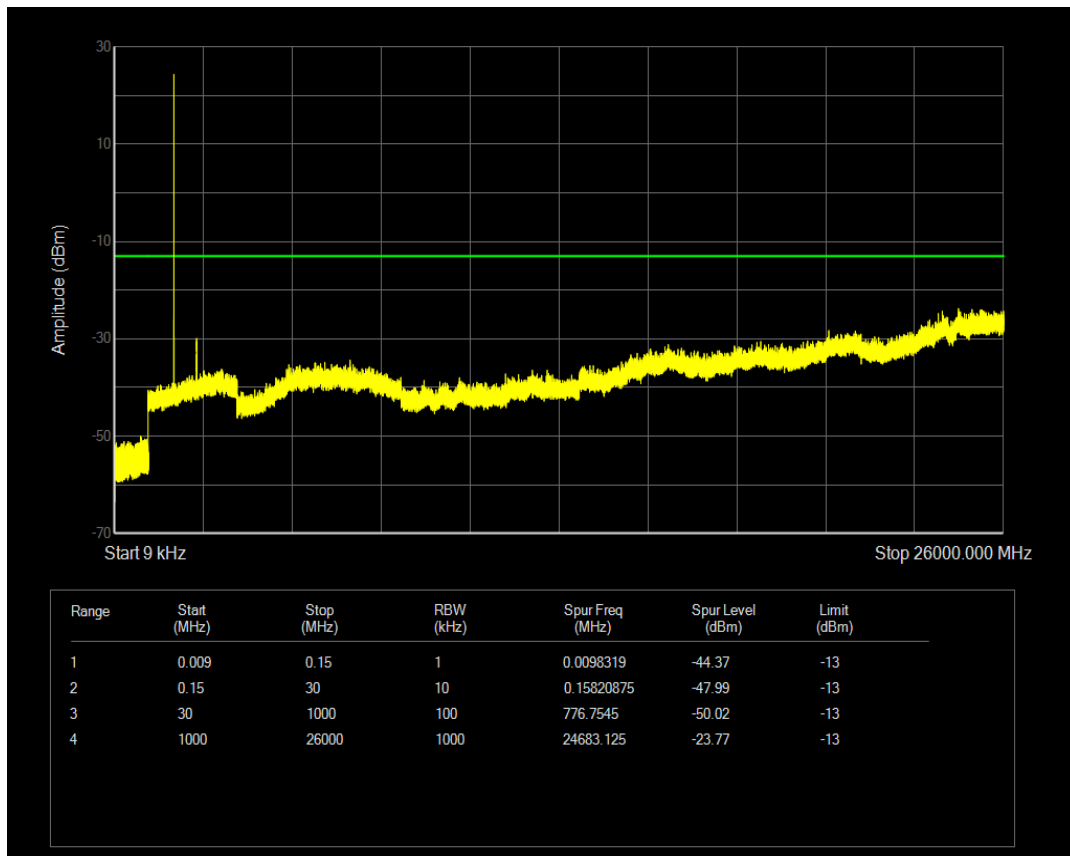
Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0



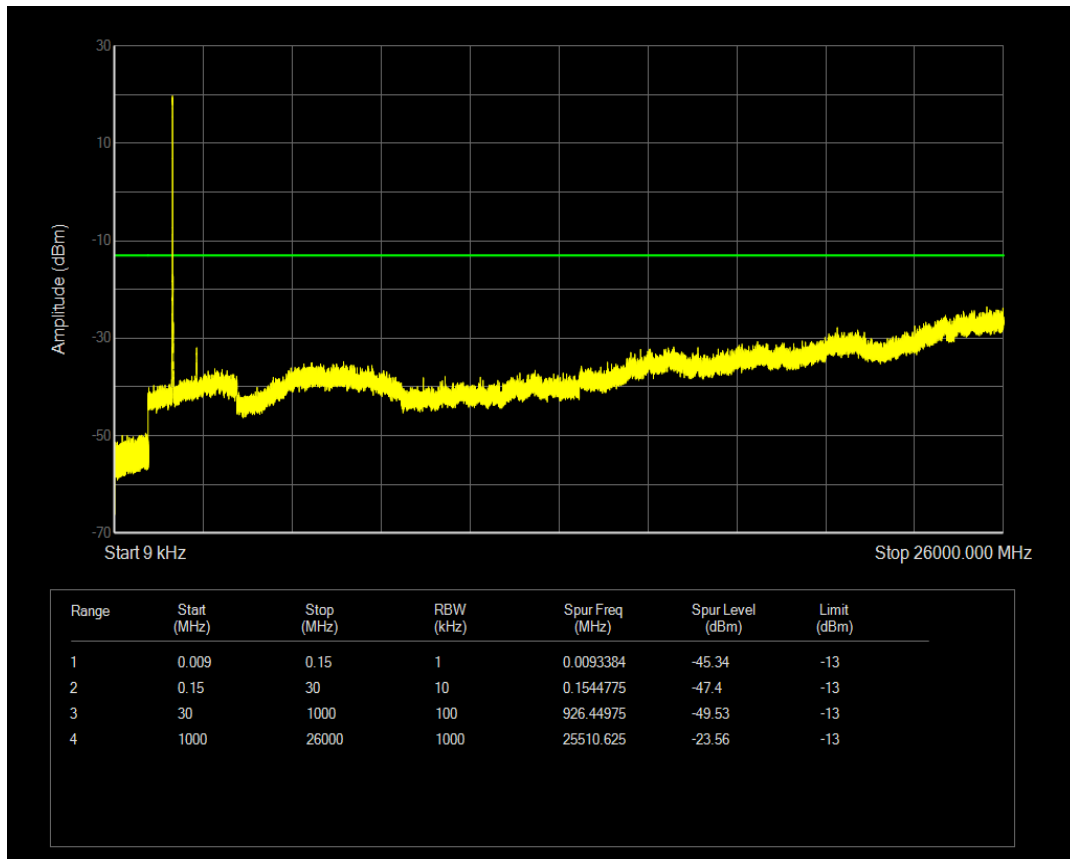
Band4 QPSK BW=1.4MHz Channel=20175 RB Size=6 Position=#0



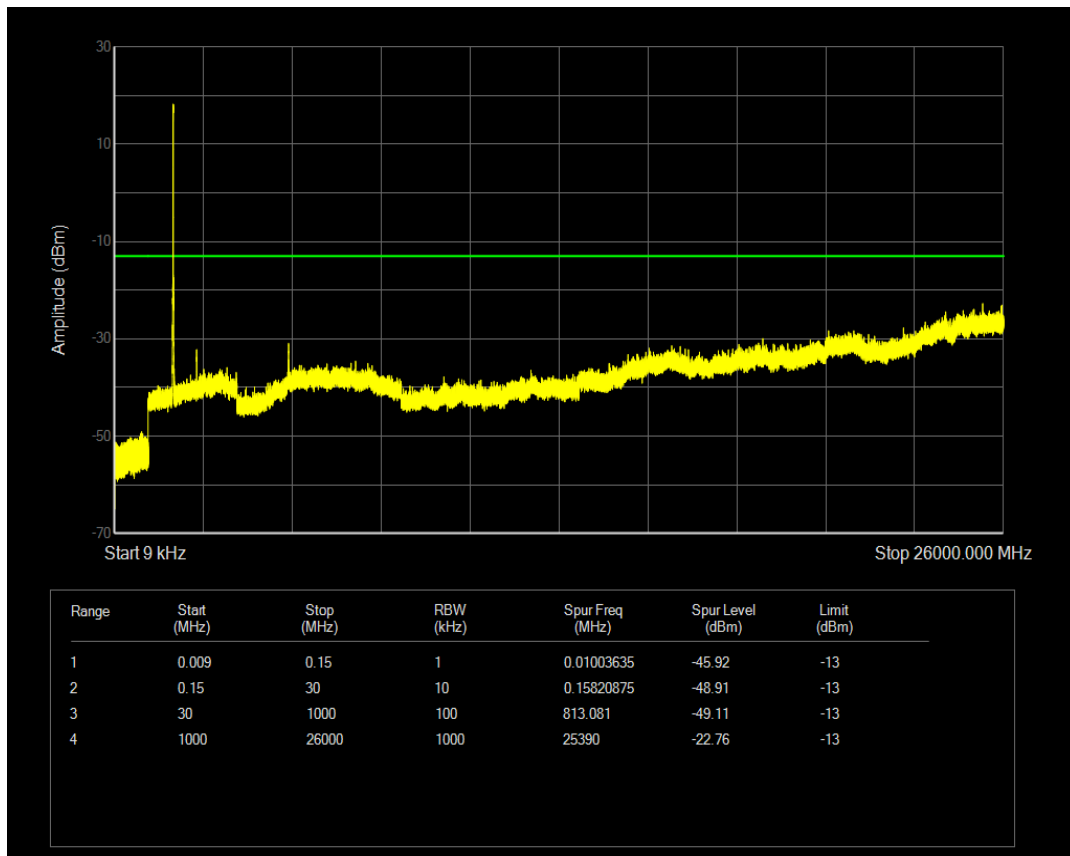
Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0



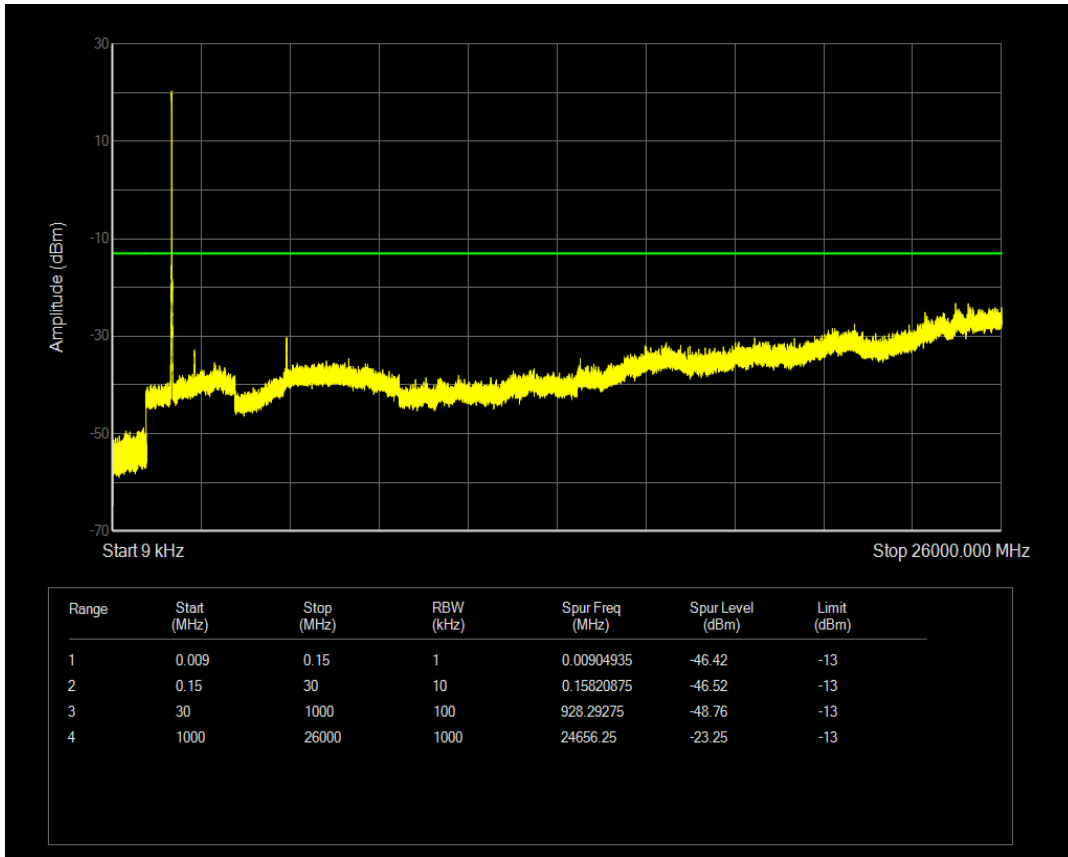
Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



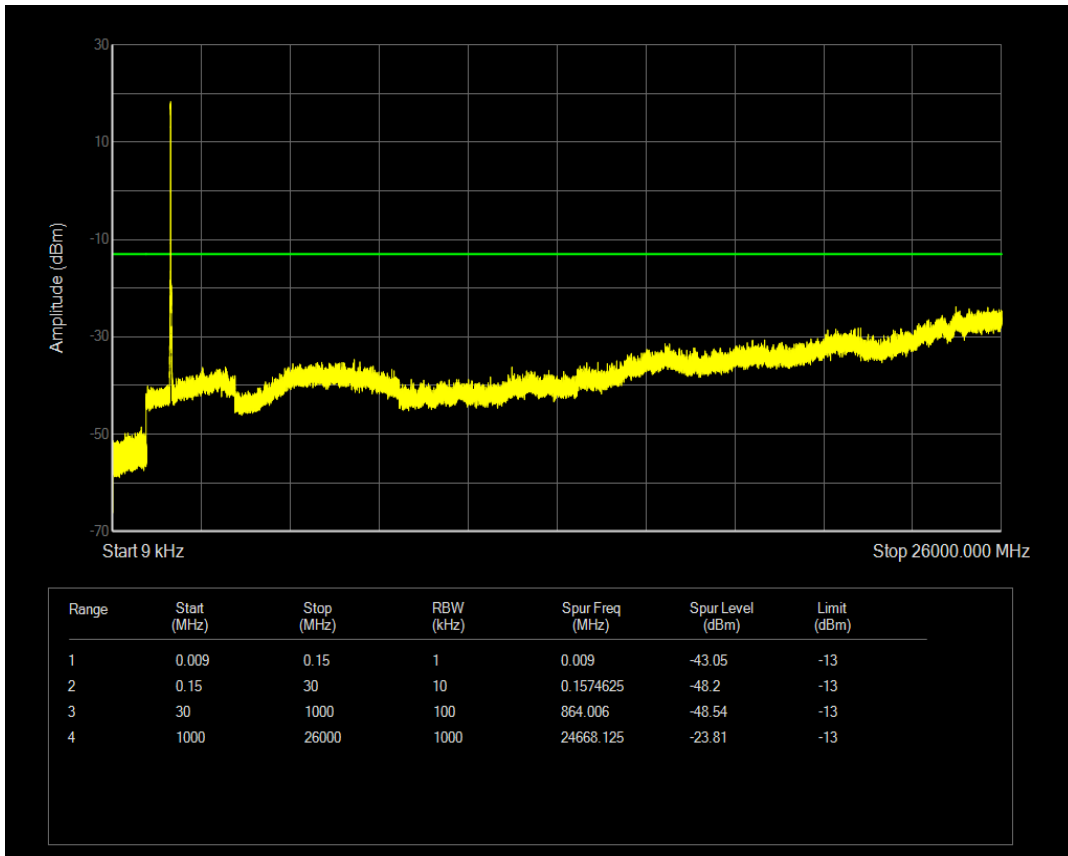
Band4 QPSK BW=10MHz Channel=20175 RB Size=50 Position=#0



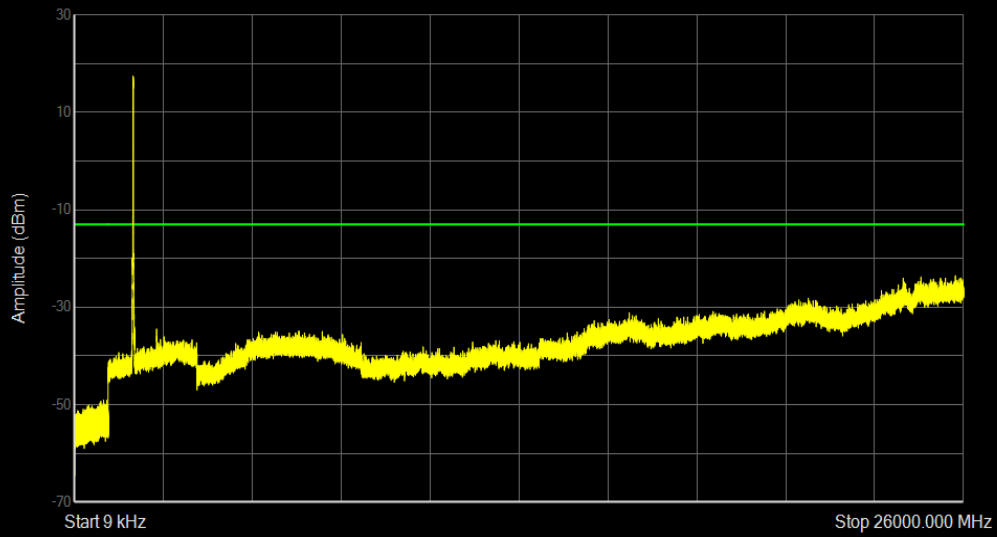
Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0



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

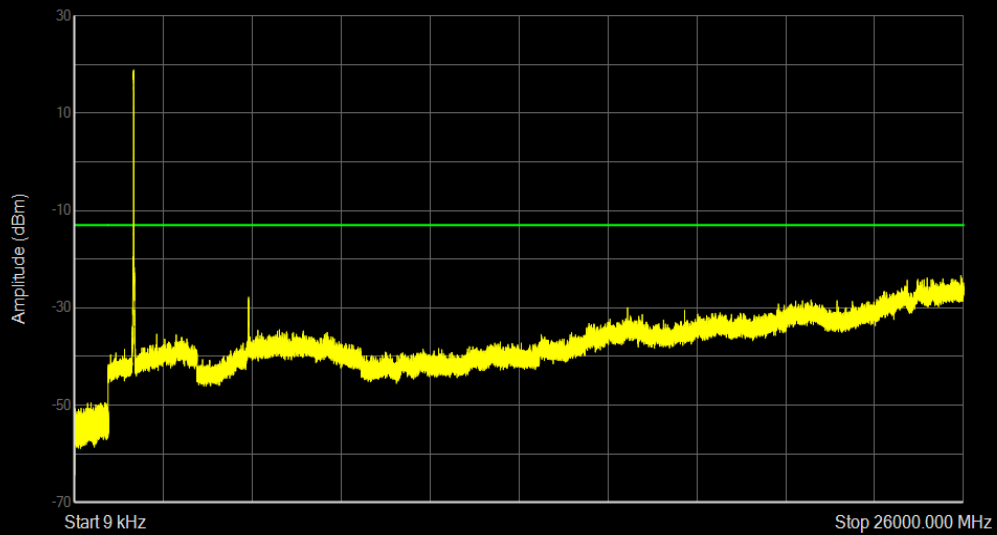


Band4 QPSK BW=15MHz Channel=20175 RB Size=75 Position=#0



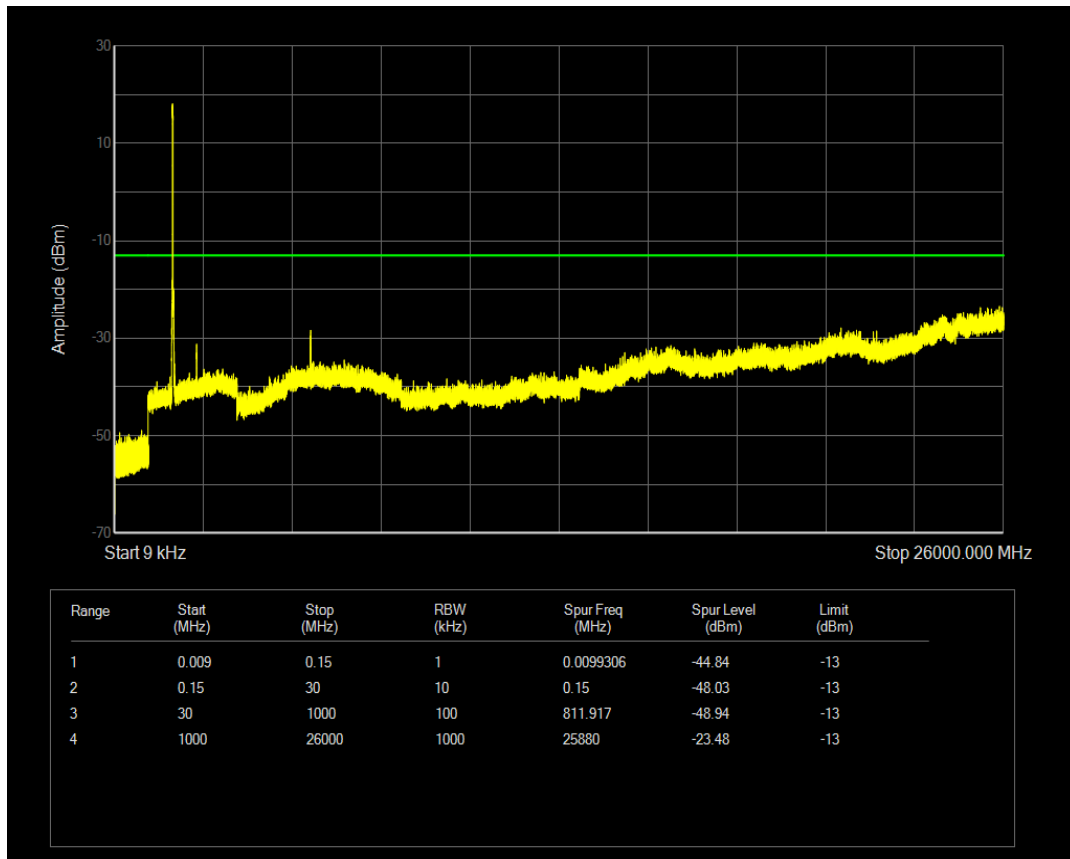
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009539325	-44.91	-13
2	0.15	30	10	0.16791	-46.17	-13
3	30	1000	100	871.669	-49.08	-13
4	1000	26000	1000	25760.625	-23.54	-13

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

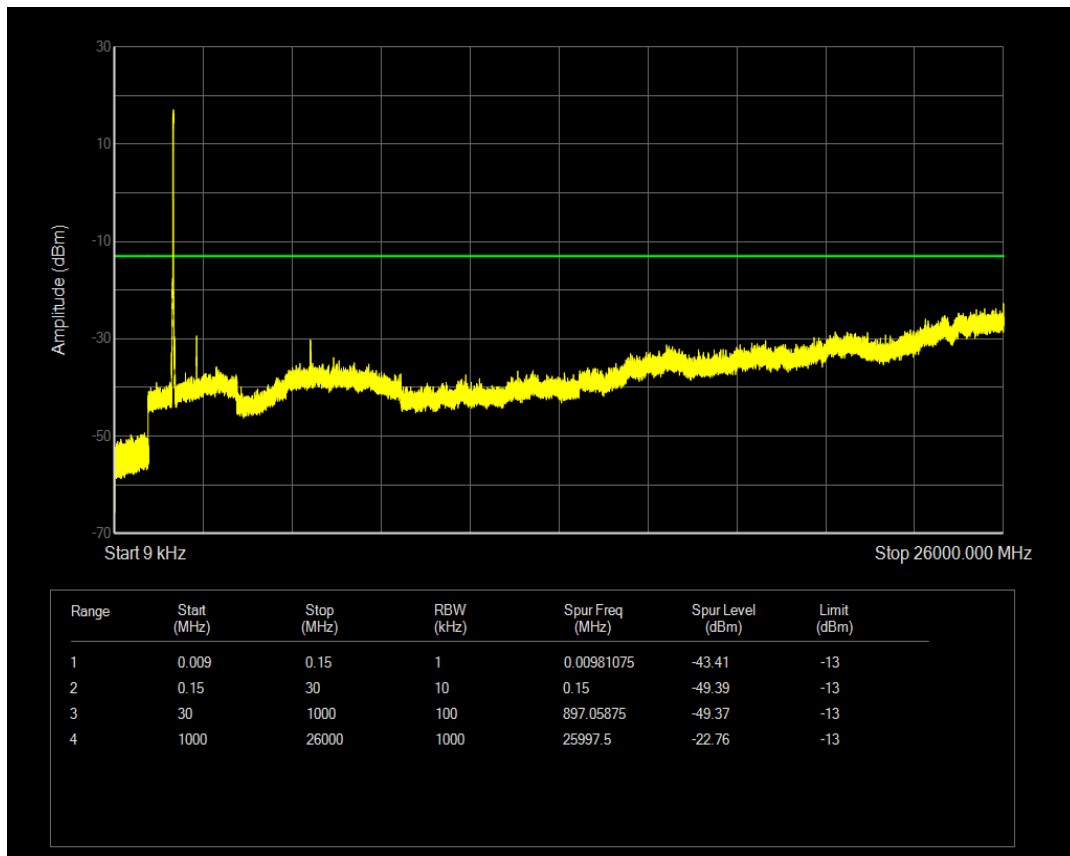


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010491075	-44.62	-13
2	0.15	30	10	0.16567125	-48.32	-13
3	30	1000	100	501.92925	-49.51	-13
4	1000	26000	1000	25920	-23.37	-13

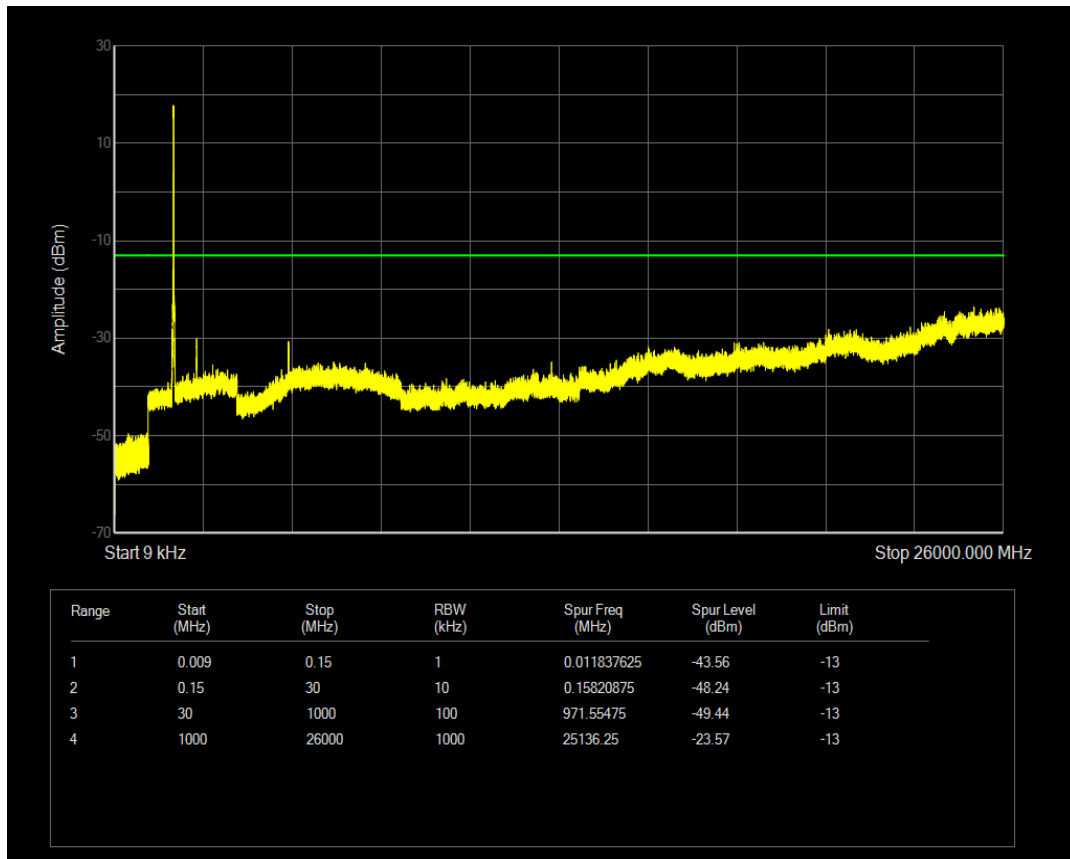
Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0



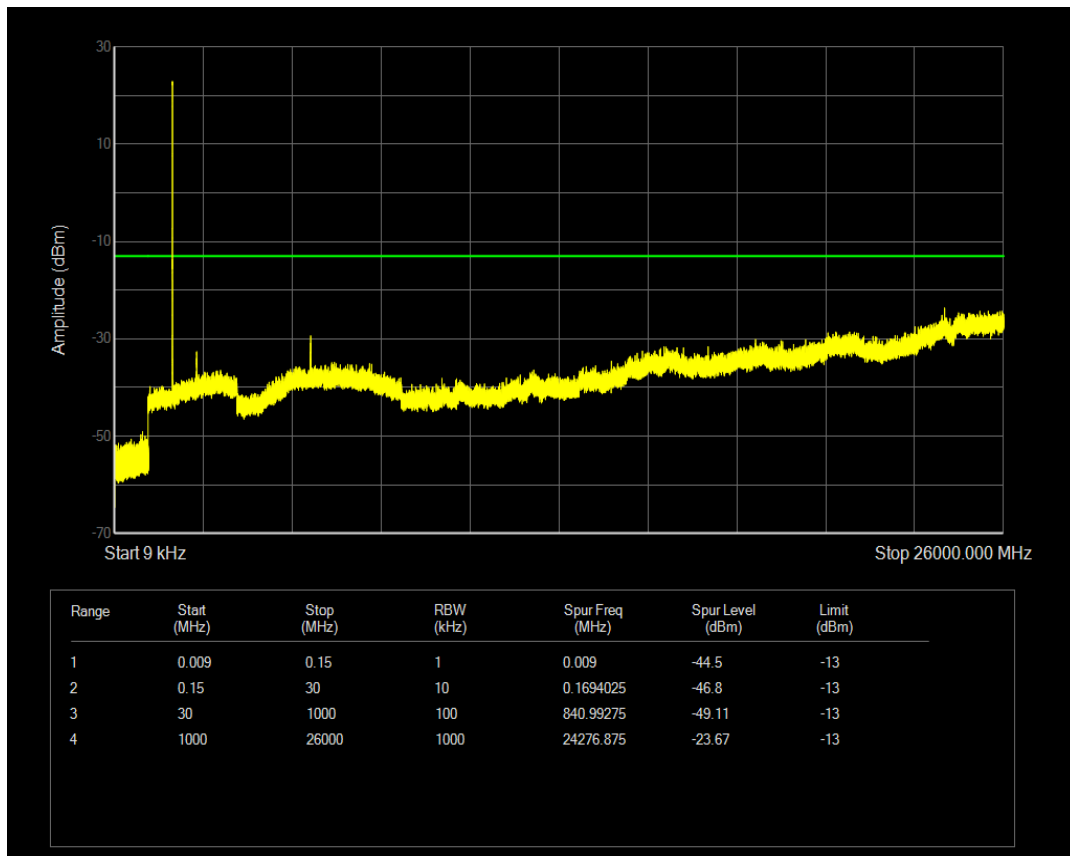
Band4 QPSK BW=20MHz Channel=20175 RB Size=100 Position=#0



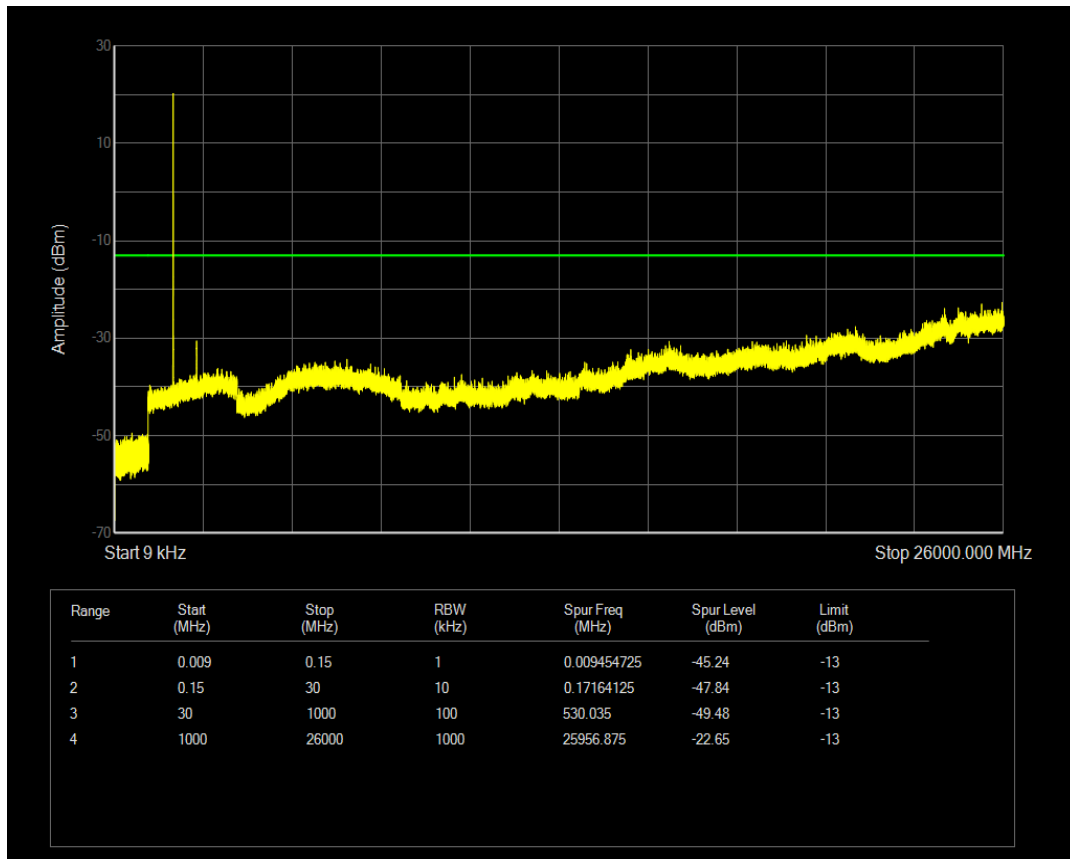
Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0



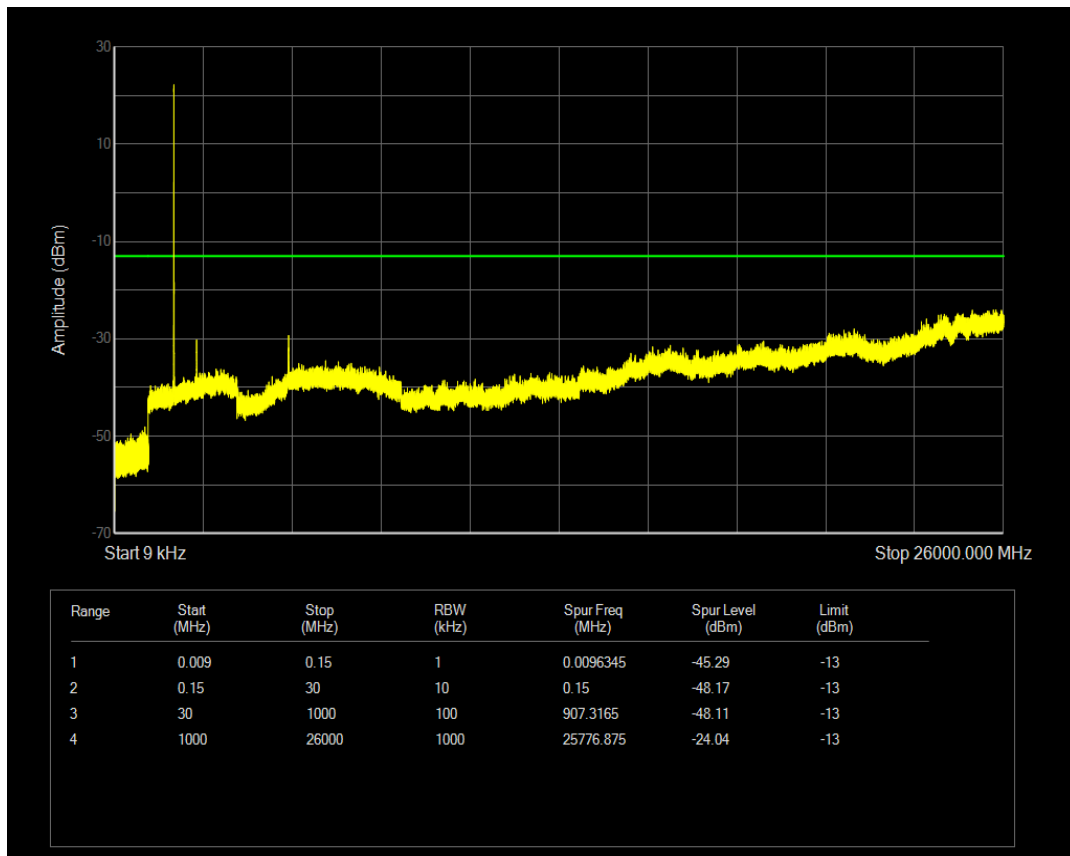
Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



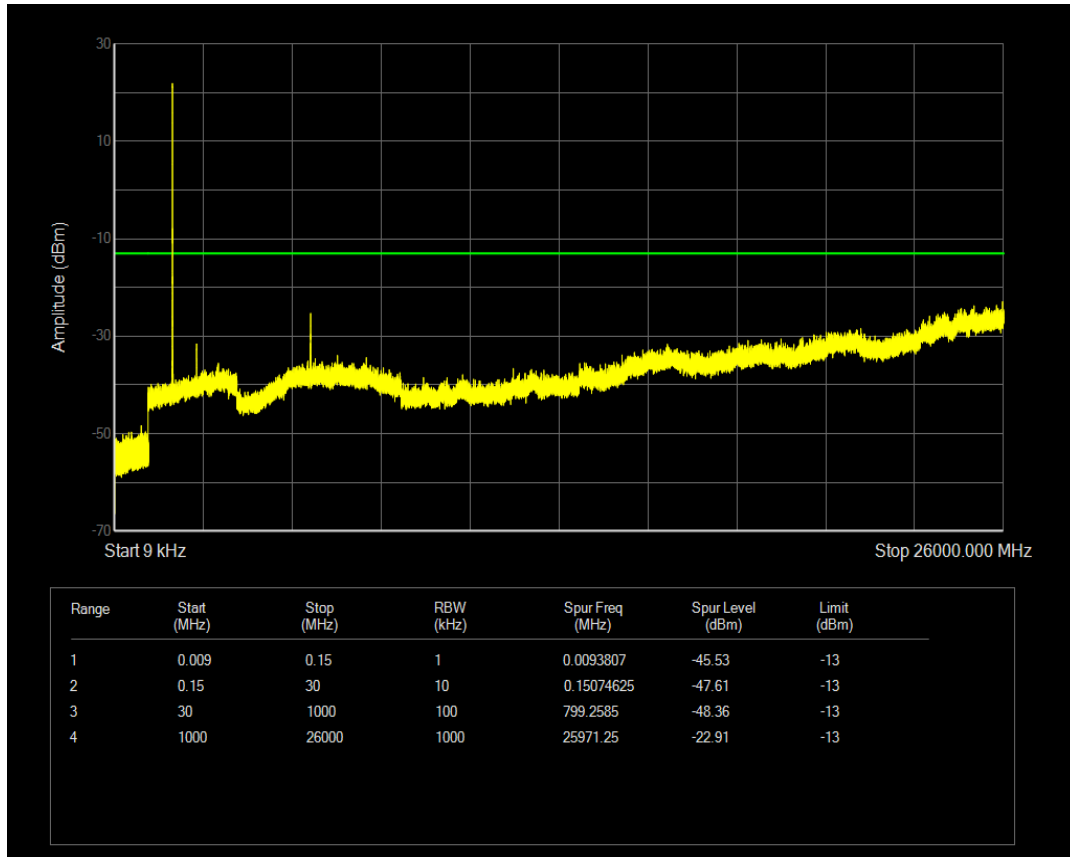
Band4 QPSK BW=3MHz Channel=20175 RB Size=15 Position=#0



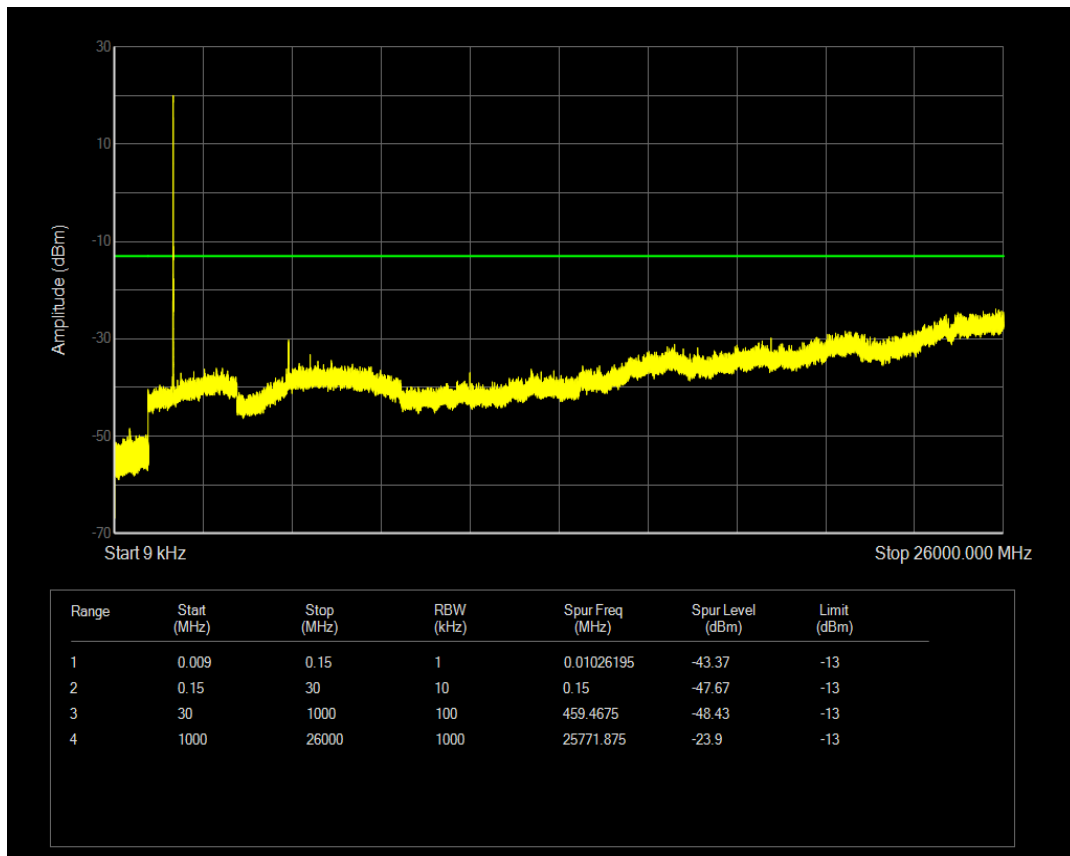
Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0



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



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



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

