

TEST REPORT

Report No.: BCTC2205535730-2E

Applicant: UMOVAL IoT Technology Co., Ltd

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

Model/Type
reference: UM-Q6-4G

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

Issued Date: 2022-06-30

Shenzhen BCTC Testing Co., Ltd.

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Appendix 1. Conducted output power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBi)	EIRP (dBm)	Verdict
Band2	1.4	18607	1	#0	QPSK	21.72	5	26.72	PASS
Band2	1.4	18607	1	#Mid	QPSK	21.74	5	26.74	PASS
Band2	1.4	18607	1	#Max	QPSK	21.58	5	26.58	PASS
Band2	1.4	18607	3	#0	QPSK	21.65	5	26.65	PASS
Band2	1.4	18607	3	#Mid	QPSK	21.69	5	26.69	PASS
Band2	1.4	18607	3	#Max	QPSK	21.78	5	26.78	PASS
Band2	1.4	18607	6	#0	QPSK	20.71	5	25.71	PASS
Band2	1.4	18607	1	#0	QAM16	20.44	5	25.44	PASS
Band2	1.4	18607	1	#Mid	QAM16	20.53	5	25.53	PASS
Band2	1.4	18607	1	#Max	QAM16	20.38	5	25.38	PASS
Band2	1.4	18607	3	#0	QAM16	20.79	5	25.79	PASS
Band2	1.4	18607	3	#Mid	QAM16	20.85	5	25.85	PASS
Band2	1.4	18607	3	#Max	QAM16	20.74	5	25.74	PASS
Band2	1.4	18607	6	#0	QAM16	19.82	5	24.82	PASS
Band2	1.4	18900	1	#0	QPSK	22.21	5	27.21	PASS
Band2	1.4	18900	1	#Mid	QPSK	22.38	5	27.38	PASS
Band2	1.4	18900	1	#Max	QPSK	22.16	5	27.16	PASS
Band2	1.4	18900	3	#0	QPSK	22.07	5	27.07	PASS
Band2	1.4	18900	3	#Mid	QPSK	22.22	5	27.22	PASS
Band2	1.4	18900	3	#Max	QPSK	22.05	5	27.05	PASS
Band2	1.4	18900	6	#0	QPSK	21.04	5	26.04	PASS
Band2	1.4	18900	1	#0	QAM16	21.39	5	26.39	PASS
Band2	1.4	18900	1	#Mid	QAM16	21.53	5	26.53	PASS
Band2	1.4	18900	1	#Max	QAM16	21.35	5	26.35	PASS
Band2	1.4	18900	3	#0	QAM16	21.48	5	26.48	PASS
Band2	1.4	18900	3	#Mid	QAM16	21.48	5	26.48	PASS
Band2	1.4	18900	3	#Max	QAM16	21.42	5	26.42	PASS
Band2	1.4	18900	6	#0	QAM16	20.48	5	25.48	PASS
Band2	1.4	19193	1	#0	QPSK	21.85	5	26.85	PASS
Band2	1.4	19193	1	#Mid	QPSK	21.90	5	26.90	PASS
Band2	1.4	19193	1	#Max	QPSK	21.90	5	26.90	PASS
Band2	1.4	19193	3	#0	QPSK	21.96	5	26.96	PASS
Band2	1.4	19193	3	#Mid	QPSK	21.92	5	26.92	PASS
Band2	1.4	19193	3	#Max	QPSK	21.95	5	26.95	PASS
Band2	1.4	19193	6	#0	QPSK	21.06	5	26.06	PASS
Band2	1.4	19193	1	#0	QAM16	20.70	5	25.70	PASS
Band2	1.4	19193	1	#Mid	QAM16	20.72	5	25.72	PASS

Band2	1.4	19193	1	#Max	QAM16	20.62	5	25.62	PASS
Band2	1.4	19193	3	#0	QAM16	20.68	5	25.68	PASS
Band2	1.4	19193	3	#Mid	QAM16	20.68	5	25.68	PASS
Band2	1.4	19193	3	#Max	QAM16	20.62	5	25.62	PASS
Band2	1.4	19193	6	#0	QAM16	19.90	5	24.90	PASS
Band2	3	18615	1	#0	QPSK	21.53	5	26.53	PASS
Band2	3	18615	1	#Mid	QPSK	21.58	5	26.58	PASS
Band2	3	18615	1	#Max	QPSK	21.52	5	26.52	PASS
Band2	3	18615	8	#0	QPSK	20.54	5	25.54	PASS
Band2	3	18615	8	#Mid	QPSK	20.60	5	25.60	PASS
Band2	3	18615	8	#Max	QPSK	20.64	5	25.64	PASS
Band2	3	18615	15	#0	QPSK	20.58	5	25.58	PASS
Band2	3	18615	1	#0	QAM16	21.04	5	26.04	PASS
Band2	3	18615	1	#Mid	QAM16	21.00	5	26.00	PASS
Band2	3	18615	1	#Max	QAM16	21.05	5	26.05	PASS
Band2	3	18615	8	#0	QAM16	19.52	5	24.52	PASS
Band2	3	18615	8	#Mid	QAM16	19.60	5	24.60	PASS
Band2	3	18615	8	#Max	QAM16	19.62	5	24.62	PASS
Band2	3	18615	15	#0	QAM16	19.59	5	24.59	PASS
Band2	3	18900	1	#0	QPSK	22.02	5	27.02	PASS
Band2	3	18900	1	#Mid	QPSK	21.99	5	26.99	PASS
Band2	3	18900	1	#Max	QPSK	22.12	5	27.12	PASS
Band2	3	18900	8	#0	QPSK	21.14	5	26.14	PASS
Band2	3	18900	8	#Mid	QPSK	21.04	5	26.04	PASS
Band2	3	18900	8	#Max	QPSK	20.99	5	25.99	PASS
Band2	3	18900	15	#0	QPSK	21.02	5	26.02	PASS
Band2	3	18900	1	#0	QAM16	20.71	5	25.71	PASS
Band2	3	18900	1	#Mid	QAM16	20.78	5	25.78	PASS
Band2	3	18900	1	#Max	QAM16	20.52	5	25.52	PASS
Band2	3	18900	8	#0	QAM16	19.95	5	24.95	PASS
Band2	3	18900	8	#Mid	QAM16	19.85	5	24.85	PASS
Band2	3	18900	8	#Max	QAM16	19.79	5	24.79	PASS
Band2	3	18900	15	#0	QAM16	19.88	5	24.88	PASS
Band2	3	19185	1	#0	QPSK	21.91	5	26.91	PASS
Band2	3	19185	1	#Mid	QPSK	22.00	5	27.00	PASS
Band2	3	19185	1	#Max	QPSK	21.92	5	26.92	PASS
Band2	3	19185	8	#0	QPSK	20.91	5	25.91	PASS
Band2	3	19185	8	#Mid	QPSK	20.87	5	25.87	PASS
Band2	3	19185	8	#Max	QPSK	20.82	5	25.82	PASS
Band2	3	19185	15	#0	QPSK	20.94	5	25.94	PASS
Band2	3	19185	1	#0	QAM16	20.86	5	25.86	PASS
Band2	3	19185	1	#Mid	QAM16	20.76	5	25.76	PASS
Band2	3	19185	1	#Max	QAM16	20.63	5	25.63	PASS

Band2	3	19185	8	#0	QAM16	19.80	5	24.80	PASS
Band2	3	19185	8	#Mid	QAM16	19.69	5	24.69	PASS
Band2	3	19185	8	#Max	QAM16	19.82	5	24.82	PASS
Band2	3	19185	15	#0	QAM16	19.92	5	24.92	PASS
Band2	5	18625	1	#0	QPSK	21.38	5	26.38	PASS
Band2	5	18625	1	#Mid	QPSK	21.73	5	26.73	PASS
Band2	5	18625	1	#Max	QPSK	21.53	5	26.53	PASS
Band2	5	18625	12	#0	QPSK	20.46	5	25.46	PASS
Band2	5	18625	12	#Mid	QPSK	20.53	5	25.53	PASS
Band2	5	18625	12	#Max	QPSK	20.66	5	25.66	PASS
Band2	5	18625	25	#0	QPSK	20.46	5	25.46	PASS
Band2	5	18625	1	#0	QAM16	20.51	5	25.51	PASS
Band2	5	18625	1	#Mid	QAM16	20.45	5	25.45	PASS
Band2	5	18625	1	#Max	QAM16	20.57	5	25.57	PASS
Band2	5	18625	12	#0	QAM16	19.35	5	24.35	PASS
Band2	5	18625	12	#Mid	QAM16	19.42	5	24.42	PASS
Band2	5	18625	12	#Max	QAM16	19.65	5	24.65	PASS
Band2	5	18625	25	#0	QAM16	19.51	5	24.51	PASS
Band2	5	18900	1	#0	QPSK	21.79	5	26.79	PASS
Band2	5	18900	1	#Mid	QPSK	21.85	5	26.85	PASS
Band2	5	18900	1	#Max	QPSK	21.89	5	26.89	PASS
Band2	5	18900	12	#0	QPSK	20.98	5	25.98	PASS
Band2	5	18900	12	#Mid	QPSK	21.01	5	26.01	PASS
Band2	5	18900	12	#Max	QPSK	20.95	5	25.95	PASS
Band2	5	18900	25	#0	QPSK	21.02	5	26.02	PASS
Band2	5	18900	1	#0	QAM16	20.78	5	25.78	PASS
Band2	5	18900	1	#Mid	QAM16	20.54	5	25.54	PASS
Band2	5	18900	1	#Max	QAM16	20.53	5	25.53	PASS
Band2	5	18900	12	#0	QAM16	19.74	5	24.74	PASS
Band2	5	18900	12	#Mid	QAM16	19.78	5	24.78	PASS
Band2	5	18900	12	#Max	QAM16	19.80	5	24.80	PASS
Band2	5	18900	25	#0	QAM16	20.20	5	25.20	PASS
Band2	5	19175	1	#0	QPSK	21.92	5	26.92	PASS
Band2	5	19175	1	#Mid	QPSK	21.93	5	26.93	PASS
Band2	5	19175	1	#Max	QPSK	21.88	5	26.88	PASS
Band2	5	19175	12	#0	QPSK	20.95	5	25.95	PASS
Band2	5	19175	12	#Mid	QPSK	20.94	5	25.94	PASS
Band2	5	19175	12	#Max	QPSK	20.86	5	25.86	PASS
Band2	5	19175	25	#0	QPSK	20.87	5	25.87	PASS
Band2	5	19175	1	#0	QAM16	20.95	5	25.95	PASS
Band2	5	19175	1	#Mid	QAM16	20.72	5	25.72	PASS
Band2	5	19175	1	#Max	QAM16	20.68	5	25.68	PASS
Band2	5	19175	12	#0	QAM16	20.17	5	25.17	PASS

Band2	5	19175	12	#Mid	QAM16	20.16	5	25.16	PASS
Band2	5	19175	12	#Max	QAM16	20.10	5	25.10	PASS
Band2	5	19175	25	#0	QAM16	20.03	5	25.03	PASS
Band2	10	18650	1	#0	QPSK	21.50	5	26.50	PASS
Band2	10	18650	1	#Mid	QPSK	21.74	5	26.74	PASS
Band2	10	18650	1	#Max	QPSK	21.80	5	26.80	PASS
Band2	10	18650	25	#0	QPSK	20.57	5	25.57	PASS
Band2	10	18650	25	#Mid	QPSK	20.73	5	25.73	PASS
Band2	10	18650	25	#Max	QPSK	20.74	5	25.74	PASS
Band2	10	18650	50	#0	QPSK	20.51	5	25.51	PASS
Band2	10	18650	1	#0	QAM16	20.93	5	25.93	PASS
Band2	10	18650	1	#Mid	QAM16	21.57	5	26.57	PASS
Band2	10	18650	1	#Max	QAM16	21.51	5	26.51	PASS
Band2	10	18650	25	#0	QAM16	19.56	5	24.56	PASS
Band2	10	18650	25	#Mid	QAM16	19.64	5	24.64	PASS
Band2	10	18650	25	#Max	QAM16	19.73	5	24.73	PASS
Band2	10	18650	50	#0	QAM16	19.39	5	24.39	PASS
Band2	10	18900	1	#0	QPSK	21.83	5	26.83	PASS
Band2	10	18900	1	#Mid	QPSK	22.13	5	27.13	PASS
Band2	10	18900	1	#Max	QPSK	21.81	5	26.81	PASS
Band2	10	18900	25	#0	QPSK	21.02	5	26.02	PASS
Band2	10	18900	25	#Mid	QPSK	21.02	5	26.02	PASS
Band2	10	18900	25	#Max	QPSK	20.83	5	25.83	PASS
Band2	10	18900	50	#0	QPSK	20.89	5	25.89	PASS
Band2	10	18900	1	#0	QAM16	21.29	5	26.29	PASS
Band2	10	18900	1	#Mid	QAM16	21.41	5	26.41	PASS
Band2	10	18900	1	#Max	QAM16	20.58	5	25.58	PASS
Band2	10	18900	25	#0	QAM16	20.00	5	25.00	PASS
Band2	10	18900	25	#Mid	QAM16	20.10	5	25.10	PASS
Band2	10	18900	25	#Max	QAM16	19.91	5	24.91	PASS
Band2	10	18900	50	#0	QAM16	19.98	5	24.98	PASS
Band2	10	19150	1	#0	QPSK	21.89	5	26.89	PASS
Band2	10	19150	1	#Mid	QPSK	21.99	5	26.99	PASS
Band2	10	19150	1	#Max	QPSK	21.93	5	26.93	PASS
Band2	10	19150	25	#0	QPSK	20.86	5	25.86	PASS
Band2	10	19150	25	#Mid	QPSK	20.99	5	25.99	PASS
Band2	10	19150	25	#Max	QPSK	20.81	5	25.81	PASS
Band2	10	19150	50	#0	QPSK	20.83	5	25.83	PASS
Band2	10	19150	1	#0	QAM16	20.65	5	25.65	PASS
Band2	10	19150	1	#Mid	QAM16	21.19	5	26.19	PASS
Band2	10	19150	1	#Max	QAM16	20.66	5	25.66	PASS
Band2	10	19150	25	#0	QAM16	20.04	5	25.04	PASS
Band2	10	19150	25	#Mid	QAM16	20.09	5	25.09	PASS

Band2	10	19150	25	#Max	QAM16	19.94	5	24.94	PASS
Band2	10	19150	50	#0	QAM16	19.90	5	24.90	PASS
Band2	15	18675	1	#0	QPSK	21.34	5	26.34	PASS
Band2	15	18675	1	#Mid	QPSK	21.87	5	26.87	PASS
Band2	15	18675	1	#Max	QPSK	21.66	5	26.66	PASS
Band2	15	18675	36	#0	QPSK	20.41	5	25.41	PASS
Band2	15	18675	36	#Mid	QPSK	20.59	5	25.59	PASS
Band2	15	18675	36	#Max	QPSK	20.74	5	25.74	PASS
Band2	15	18675	75	#0	QPSK	20.46	5	25.46	PASS
Band2	15	18675	1	#0	QAM16	21.05	5	26.05	PASS
Band2	15	18675	1	#Mid	QAM16	21.86	5	26.86	PASS
Band2	15	18675	1	#Max	QAM16	21.82	5	26.82	PASS
Band2	15	18675	36	#0	QAM16	19.42	5	24.42	PASS
Band2	15	18675	36	#Mid	QAM16	19.80	5	24.80	PASS
Band2	15	18675	36	#Max	QAM16	19.64	5	24.64	PASS
Band2	15	18675	75	#0	QAM16	19.54	5	24.54	PASS
Band2	15	18900	1	#0	QPSK	21.78	5	26.78	PASS
Band2	15	18900	1	#Mid	QPSK	22.05	5	27.05	PASS
Band2	15	18900	1	#Max	QPSK	21.63	5	26.63	PASS
Band2	15	18900	36	#0	QPSK	20.99	5	25.99	PASS
Band2	15	18900	36	#Mid	QPSK	20.99	5	25.99	PASS
Band2	15	18900	36	#Max	QPSK	20.87	5	25.87	PASS
Band2	15	18900	75	#0	QPSK	20.98	5	25.98	PASS
Band2	15	18900	1	#0	QAM16	20.68	5	25.68	PASS
Band2	15	18900	1	#Mid	QAM16	21.00	5	26.00	PASS
Band2	15	18900	1	#Max	QAM16	20.43	5	25.43	PASS
Band2	15	18900	36	#0	QAM16	20.13	5	25.13	PASS
Band2	15	18900	36	#Mid	QAM16	20.22	5	25.22	PASS
Band2	15	18900	36	#Max	QAM16	20.02	5	25.02	PASS
Band2	15	18900	75	#0	QAM16	19.98	5	24.98	PASS
Band2	15	19125	1	#0	QPSK	21.81	5	26.81	PASS
Band2	15	19125	1	#Mid	QPSK	22.08	5	27.08	PASS
Band2	15	19125	1	#Max	QPSK	21.70	5	26.70	PASS
Band2	15	19125	36	#0	QPSK	20.78	5	25.78	PASS
Band2	15	19125	36	#Mid	QPSK	20.97	5	25.97	PASS
Band2	15	19125	36	#Max	QPSK	21.00	5	26.00	PASS
Band2	15	19125	75	#0	QPSK	20.76	5	25.76	PASS
Band2	15	19125	1	#0	QAM16	21.04	5	26.04	PASS
Band2	15	19125	1	#Mid	QAM16	21.47	5	26.47	PASS
Band2	15	19125	1	#Max	QAM16	21.59	5	26.59	PASS
Band2	15	19125	36	#0	QAM16	19.81	5	24.81	PASS
Band2	15	19125	36	#Mid	QAM16	20.10	5	25.10	PASS
Band2	15	19125	36	#Max	QAM16	20.06	5	25.06	PASS

Band2	15	19125	75	#0	QAM16	19.86	5	24.86	PASS
Band2	20	18700	1	#0	QPSK	21.10	5	26.10	PASS
Band2	20	18700	1	#Mid	QPSK	21.85	5	26.85	PASS
Band2	20	18700	1	#Max	QPSK	21.58	5	26.58	PASS
Band2	20	18700	50	#0	QPSK	20.48	5	25.48	PASS
Band2	20	18700	50	#Mid	QPSK	20.67	5	25.67	PASS
Band2	20	18700	50	#Max	QPSK	20.73	5	25.73	PASS
Band2	20	18700	100	#0	QPSK	20.52	5	25.52	PASS
Band2	20	18700	1	#0	QAM16	20.48	5	25.48	PASS
Band2	20	18700	1	#Mid	QAM16	20.52	5	25.52	PASS
Band2	20	18700	1	#Max	QAM16	20.68	5	25.68	PASS
Band2	20	18700	50	#0	QAM16	19.61	5	24.61	PASS
Band2	20	18700	50	#Mid	QAM16	19.91	5	24.91	PASS
Band2	20	18700	50	#Max	QAM16	19.91	5	24.91	PASS
Band2	20	18700	100	#0	QAM16	19.62	5	24.62	PASS
Band2	20	18900	1	#0	QPSK	21.86	5	26.86	PASS
Band2	20	18900	1	#Mid	QPSK	22.29	5	27.29	PASS
Band2	20	18900	1	#Max	QPSK	21.77	5	26.77	PASS
Band2	20	18900	50	#0	QPSK	20.91	5	25.91	PASS
Band2	20	18900	50	#Mid	QPSK	20.98	5	25.98	PASS
Band2	20	18900	50	#Max	QPSK	20.72	5	25.72	PASS
Band2	20	18900	100	#0	QPSK	20.88	5	25.88	PASS
Band2	20	18900	1	#0	QAM16	20.81	5	25.81	PASS
Band2	20	18900	1	#Mid	QAM16	21.47	5	26.47	PASS
Band2	20	18900	1	#Max	QAM16	20.47	5	25.47	PASS
Band2	20	18900	50	#0	QAM16	19.97	5	24.97	PASS
Band2	20	18900	50	#Mid	QAM16	20.05	5	25.05	PASS
Band2	20	18900	50	#Max	QAM16	19.80	5	24.80	PASS
Band2	20	18900	100	#0	QAM16	19.94	5	24.94	PASS
Band2	20	19100	1	#0	QPSK	21.66	5	26.66	PASS
Band2	20	19100	1	#Mid	QPSK	21.87	5	26.87	PASS
Band2	20	19100	1	#Max	QPSK	21.99	5	26.99	PASS
Band2	20	19100	50	#0	QPSK	20.75	5	25.75	PASS
Band2	20	19100	50	#Mid	QPSK	20.93	5	25.93	PASS
Band2	20	19100	50	#Max	QPSK	20.84	5	25.84	PASS
Band2	20	19100	100	#0	QPSK	20.77	5	25.77	PASS
Band2	20	19100	1	#0	QAM16	20.21	5	25.21	PASS
Band2	20	19100	1	#Mid	QAM16	20.70	5	25.70	PASS
Band2	20	19100	1	#Max	QAM16	20.70	5	25.70	PASS
Band2	20	19100	50	#0	QAM16	19.87	5	24.87	PASS
Band2	20	19100	50	#Mid	QAM16	20.05	5	25.05	PASS
Band2	20	19100	50	#Max	QAM16	19.98	5	24.98	PASS
Band2	20	19100	100	#0	QAM16	19.77	5	24.77	PASS

Appendix 2. Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (C)	Result (Hz)	Result (ppm)	Low Limit (ppm)	High Limit (ppm)	Verdict
Band 2	1.4	18607	6	#0	QPSK	LV	NT	-2.75	-0.001	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QPSK	NV	NT	-3.40	-0.002	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QPSK	HV	NT	-2.00	-0.001	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QAM16	LV	NT	-0.86	0.000	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QAM16	NV	NT	-1.96	-0.001	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QAM16	HV	NT	-1.43	-0.001	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QPSK	LV	NT	-2.85	-0.002	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QPSK	NV	NT	-3.15	-0.002	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QPSK	HV	NT	-4.03	-0.002	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QAM16	LV	NT	-3.12	-0.002	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QAM16	NV	NT	-2.23	-0.001	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QAM16	HV	NT	-4.16	-0.002	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QPSK	LV	NT	2.03	0.001	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QPSK	NV	NT	2.19	0.001	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QPSK	HV	NT	2.00	0.001	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QAM16	LV	NT	1.03	0.001	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QAM16	NV	NT	1.53	0.001	-2.5	2.5	PASS

Band 2	1.4	19193	6	#0	QAM16	HV	NT	-0.26	0.000	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QPSK	LV	NT	-1.07	-0.00 1	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QPSK	NV	NT	-2.35	-0.00 1	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QPSK	HV	NT	-2.57	-0.00 1	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QAM16	LV	NT	-2.22	-0.00 1	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QAM16	NV	NT	-1.43	-0.00 1	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QAM16	HV	NT	-0.82	0.000	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QPSK	LV	NT	-2.69	-0.00 1	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QPSK	NV	NT	-3.93	-0.00 2	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QPSK	HV	NT	-3.78	-0.00 2	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QAM16	LV	NT	-9.00	-0.00 5	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QAM16	NV	NT	-0.76	0.000	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QAM16	HV	NT	-2.42	-0.00 1	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QPSK	LV	NT	0.50	0.000	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QPSK	NV	NT	0.13	0.000	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QPSK	HV	NT	-1.69	-0.00 1	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QAM16	LV	NT	1.20	0.001	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QAM16	NV	NT	0.11	0.000	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QAM16	HV	NT	0.53	0.000	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QPSK	LV	NT	-2.50	-0.00 1	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QPSK	NV	NT	-3.26	-0.00 2	-2.5	2.5	PASS
Band	5	18625	25	#0	QPSK	HV	NT	-2.89	-0.00	-2.5	2.5	PASS

2									2			
Band 2	5	18625	25	#0	QAM16	LV	NT	-3.82	-0.002	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QAM16	NV	NT	-2.53	-0.001	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QAM16	HV	NT	-0.44	0.000	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QPSK	LV	NT	-5.97	-0.003	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QPSK	NV	NT	-3.50	-0.002	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QPSK	HV	NT	-7.90	-0.004	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QAM16	LV	NT	-2.66	-0.001	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QAM16	NV	NT	-4.88	-0.003	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QAM16	HV	NT	-3.55	-0.002	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QPSK	LV	NT	1.44	0.001	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QPSK	NV	NT	2.00	0.001	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QPSK	HV	NT	0.69	0.000	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QAM16	LV	NT	-0.94	0.000	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QAM16	NV	NT	-0.29	0.000	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QAM16	HV	NT	0.31	0.000	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QPSK	LV	NT	-1.85	-0.001	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QPSK	NV	NT	-3.40	-0.002	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QPSK	HV	NT	-4.65	-0.003	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QAM16	LV	NT	-2.68	-0.001	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QAM16	NV	NT	-1.87	-0.001	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QAM16	HV	NT	-2.46	-0.001	-2.5	2.5	PASS

Band 2	10	18900	50	#0	QPSK	LV	NT	-3.85	-0.00 2	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QPSK	NV	NT	-3.66	-0.00 2	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QPSK	HV	NT	-2.53	-0.00 1	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QAM16	LV	NT	-2.76	-0.00 1	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QAM16	NV	NT	-2.22	-0.00 1	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QAM16	HV	NT	-1.83	-0.00 1	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QPSK	LV	NT	1.63	0.001	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QPSK	NV	NT	-0.36	0.000	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QPSK	HV	NT	1.77	0.001	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QAM16	LV	NT	-0.33	0.000	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QAM16	NV	NT	1.12	0.001	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QAM16	HV	NT	0.36	0.000	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QPSK	LV	NT	-3.88	-0.00 2	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QPSK	NV	NT	-5.36	-0.00 3	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QPSK	HV	NT	-4.36	-0.00 2	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QAM16	LV	NT	-2.63	-0.00 1	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QAM16	NV	NT	-3.06	-0.00 2	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QAM16	HV	NT	-2.63	-0.00 1	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QPSK	LV	NT	-2.76	-0.00 1	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QPSK	NV	NT	-3.69	-0.00 2	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QPSK	HV	NT	-1.39	-0.00 1	-2.5	2.5	PASS
Band	15	18900	75	#0	QAM16	LV	NT	-3.71	-0.00	-2.5	2.5	PASS

2									2			
Band 2	15	18900	75	#0	QAM16	NV	NT	-3.95	-0.002	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QAM16	HV	NT	-2.17	-0.001	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QPSK	LV	NT	-4.82	-0.003	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QPSK	NV	NT	-3.93	-0.002	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QPSK	HV	NT	-3.33	-0.002	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QAM16	LV	NT	-3.10	-0.002	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QAM16	NV	NT	-4.42	-0.002	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QAM16	HV	NT	-4.08	-0.002	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QPSK	LV	NT	0.14	0.000	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QPSK	NV	NT	0.23	0.000	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QPSK	HV	NT	1.52	0.001	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QAM16	LV	NT	0.43	0.000	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QAM16	NV	NT	0.13	0.000	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QAM16	HV	NT	-0.24	0.000	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QPSK	LV	NT	-3.42	-0.002	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QPSK	NV	NT	-2.35	-0.001	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QPSK	HV	NT	-3.18	-0.002	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QAM16	LV	NT	-1.90	-0.001	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QAM16	NV	NT	-3.10	-0.002	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QAM16	HV	NT	-4.19	-0.002	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QPSK	LV	NT	-3.18	-0.002	-2.5	2.5	PASS

Band 2	20	19100	100	#0	QPSK	NV	NT	-3.72	-0.00 2	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QPSK	HV	NT	-3.63	-0.00 2	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QAM16	LV	NT	-1.54	-0.00 1	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QAM16	NV	NT	-1.83	-0.00 1	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QAM16	HV	NT	-2.32	-0.00 1	-2.5	2.5	PASS

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (C)	Result (Hz)	Result (ppm)	Low Limit (ppm)	High Limit (ppm)	Verdict
Band 2	1.4	18607	6	#0	QPSK	NV	-30	-1.99	-0.00 1	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QPSK	NV	-20	-1.86	-0.00 1	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QPSK	NV	0	-0.01	0.000	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QPSK	NV	10	1.16	0.001	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QPSK	NV	20	-0.04	0.000	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QAM16	NV	-30	-0.33	0.000	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QAM16	NV	-20	-1.72	-0.00 1	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QAM16	NV	0	-2.30	-0.00 1	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QAM16	NV	10	-0.43	0.000	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QAM16	NV	20	-0.19	0.000	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QPSK	NV	-30	-2.63	-0.00 1	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QPSK	NV	-20	-2.42	-0.00 1	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QPSK	NV	0	-4.02	-0.00 2	-2.5	2.5	PASS
Band	1.4	18900	6	#0	QPSK	NV	10	-5.65	-0.00	-2.5	2.5	PASS

2									3			
Band 2	1.4	18900	6	#0	QPSK	NV	20	-3.92	-0.002	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QAM16	NV	-30	-2.57	-0.001	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QAM16	NV	-20	-2.53	-0.001	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QAM16	NV	0	-3.00	-0.002	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QAM16	NV	10	-5.05	-0.003	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QAM16	NV	20	-4.02	-0.002	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QPSK	NV	-30	1.43	0.001	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QPSK	NV	-20	0.16	0.000	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QPSK	NV	0	1.46	0.001	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QPSK	NV	10	-1.90	-0.001	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QPSK	NV	20	-0.96	-0.001	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QAM16	NV	-30	0.79	0.000	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QAM16	NV	-20	-0.99	-0.001	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QAM16	NV	0	-2.32	-0.001	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QAM16	NV	10	0.41	0.000	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QAM16	NV	20	-0.49	0.000	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QPSK	NV	-30	-1.26	-0.001	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QPSK	NV	-20	-2.16	-0.001	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QPSK	NV	0	-4.62	-0.002	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QPSK	NV	10	-2.69	-0.001	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QPSK	NV	20	-2.63	-0.001	-2.5	2.5	PASS

Band 2	3	18615	15	#0	QAM16	NV	-30	-0.36	0.000	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QAM16	NV	-20	-2.42	-0.00 1	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QAM16	NV	0	-1.03	-0.00 1	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QAM16	NV	10	-3.45	-0.00 2	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QAM16	NV	20	-1.77	-0.00 1	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QPSK	NV	-30	-2.43	-0.00 1	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QPSK	NV	-20	-2.55	-0.00 1	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QPSK	NV	0	-2.63	-0.00 1	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QPSK	NV	10	-3.22	-0.00 2	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QPSK	NV	20	-5.25	-0.00 3	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QAM16	NV	-30	-5.79	-0.00 3	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QAM16	NV	-20	-4.66	-0.00 2	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QAM16	NV	0	-4.02	-0.00 2	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QAM16	NV	10	-1.95	-0.00 1	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QAM16	NV	20	-3.46	-0.00 2	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QPSK	NV	-30	0.37	0.000	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QPSK	NV	-20	-0.39	0.000	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QPSK	NV	0	-1.14	-0.00 1	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QPSK	NV	10	-1.73	-0.00 1	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QPSK	NV	20	-0.82	0.000	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QAM16	NV	-30	-0.30	0.000	-2.5	2.5	PASS
Band	3	19185	15	#0	QAM16	NV	-20	1.33	0.001	-2.5	2.5	PASS

2												
Band 2	3	19185	15	#0	QAM16	NV	0	0.06	0.000	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QAM16	NV	10	0.51	0.000	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QAM16	NV	20	0.92	0.000	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QPSK	NV	-30	-1.65	-0.001	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QPSK	NV	-20	-2.35	-0.001	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QPSK	NV	0	-1.90	-0.001	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QPSK	NV	10	-3.50	-0.002	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QPSK	NV	20	-1.07	-0.001	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QAM16	NV	-30	-2.03	-0.001	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QAM16	NV	-20	-1.75	-0.001	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QAM16	NV	0	-2.22	-0.001	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QAM16	NV	10	-1.16	-0.001	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QAM16	NV	20	-0.92	0.000	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QPSK	NV	-30	-5.19	-0.003	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QPSK	NV	-20	-5.72	-0.003	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QPSK	NV	0	-4.46	-0.002	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QPSK	NV	10	-3.52	-0.002	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QPSK	NV	20	-4.15	-0.002	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QAM16	NV	-30	-4.06	-0.002	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QAM16	NV	-20	-4.51	-0.002	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QAM16	NV	0	-1.13	-0.001	-2.5	2.5	PASS

Band 2	5	18900	25	#0	QAM16	NV	10	-4.25	-0.00 2	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QAM16	NV	20	-3.50	-0.00 2	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QPSK	NV	-30	1.89	0.001	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QPSK	NV	-20	-0.54	0.000	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QPSK	NV	0	-2.80	-0.00 1	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QPSK	NV	10	-0.33	0.000	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QPSK	NV	20	0.94	0.000	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QAM16	NV	-30	0.24	0.000	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QAM16	NV	-20	0.44	0.000	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QAM16	NV	0	0.54	0.000	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QAM16	NV	10	2.78	0.001	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QAM16	NV	20	0.74	0.000	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QPSK	NV	-30	-3.23	-0.00 2	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QPSK	NV	-20	-3.83	-0.00 2	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QPSK	NV	0	-2.92	-0.00 2	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QPSK	NV	10	-4.61	-0.00 2	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QPSK	NV	20	-2.73	-0.00 1	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QAM16	NV	-30	-4.62	-0.00 2	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QAM16	NV	-20	-3.23	-0.00 2	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QAM16	NV	0	-3.12	-0.00 2	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QAM16	NV	10	-1.97	-0.00 1	-2.5	2.5	PASS
Band	10	18650	50	#0	QAM16	NV	20	-2.78	-0.00	-2.5	2.5	PASS

2									1			
Band 2	10	18900	50	#0	QPSK	NV	-30	-1.66	-0.001	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QPSK	NV	-20	-6.68	-0.004	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QPSK	NV	0	-3.15	-0.002	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QPSK	NV	10	-3.71	-0.002	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QPSK	NV	20	-1.17	-0.001	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QAM16	NV	-30	-4.15	-0.002	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QAM16	NV	-20	-4.88	-0.003	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QAM16	NV	0	-4.81	-0.003	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QAM16	NV	10	-4.48	-0.002	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QAM16	NV	20	-5.05	-0.003	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QPSK	NV	-30	2.89	0.002	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QPSK	NV	-20	0.13	0.000	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QPSK	NV	0	-1.22	-0.001	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QPSK	NV	10	-0.66	0.000	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QPSK	NV	20	0.56	0.000	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QAM16	NV	-30	2.15	0.001	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QAM16	NV	-20	0.39	0.000	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QAM16	NV	0	-0.47	0.000	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QAM16	NV	10	-0.13	0.000	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QAM16	NV	20	-0.31	0.000	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QPSK	NV	-30	-4.46	-0.002	-2.5	2.5	PASS

Band 2	15	18675	75	#0	QPSK	NV	-20	-5.02	-0.00 3	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QPSK	NV	0	-0.72	0.000	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QPSK	NV	10	-3.00	-0.00 2	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QPSK	NV	20	-0.83	0.000	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QAM16	NV	-30	-2.82	-0.00 2	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QAM16	NV	-20	-0.87	0.000	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QAM16	NV	0	-4.59	-0.00 2	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QAM16	NV	10	-2.03	-0.00 1	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QAM16	NV	20	-3.98	-0.00 2	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QPSK	NV	-30	-4.08	-0.00 2	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QPSK	NV	-20	-3.49	-0.00 2	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QPSK	NV	0	-3.05	-0.00 2	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QPSK	NV	10	-2.95	-0.00 2	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QPSK	NV	20	-4.01	-0.00 2	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QAM16	NV	-30	-4.11	-0.00 2	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QAM16	NV	-20	-0.82	0.000	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QAM16	NV	0	-2.82	-0.00 2	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QAM16	NV	10	-2.02	-0.00 1	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QAM16	NV	20	-3.50	-0.00 2	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QPSK	NV	-30	-2.68	-0.00 1	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QPSK	NV	-20	-4.05	-0.00 2	-2.5	2.5	PASS
Band	15	19125	75	#0	QPSK	NV	0	-3.52	-0.00	-2.5	2.5	PASS

2									2			
Band 2	15	19125	75	#0	QPSK	NV	10	-2.79	-0.001	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QPSK	NV	20	-3.08	-0.002	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QAM16	NV	-30	-4.28	-0.002	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QAM16	NV	-20	-4.56	-0.002	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QAM16	NV	0	-2.65	-0.001	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QAM16	NV	10	-4.53	-0.002	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QAM16	NV	20	-2.92	-0.002	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QPSK	NV	-30	2.09	0.001	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QPSK	NV	-20	-0.43	0.000	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QPSK	NV	0	-3.76	-0.002	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QPSK	NV	10	1.46	0.001	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QPSK	NV	20	0.82	0.000	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QAM16	NV	-30	0.99	0.001	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QAM16	NV	-20	-1.03	-0.001	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QAM16	NV	0	-2.75	-0.001	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QAM16	NV	10	-1.23	-0.001	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QAM16	NV	20	2.25	0.001	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QPSK	NV	-30	-2.50	-0.001	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QPSK	NV	-20	-2.27	-0.001	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QPSK	NV	0	-1.76	-0.001	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QPSK	NV	10	-4.78	-0.003	-2.5	2.5	PASS

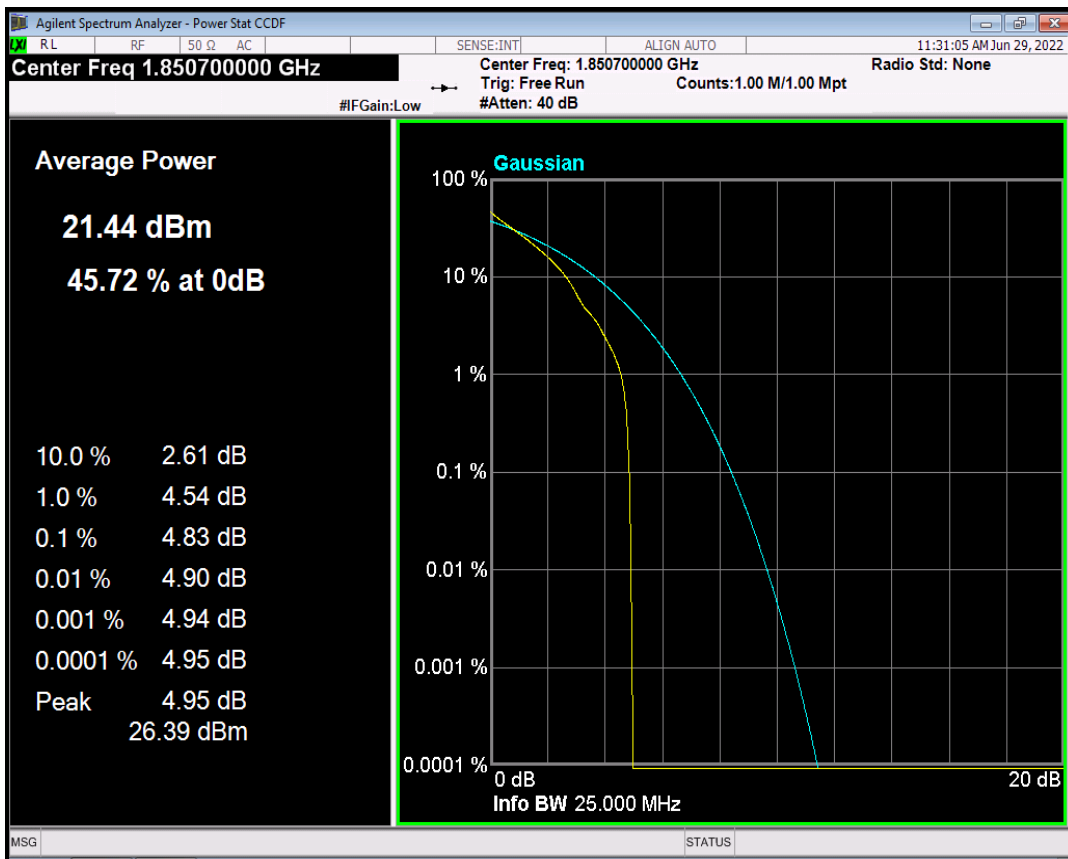
Band 2	20	18900	100	#0	QPSK	NV	20	-2.79	-0.00 1	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QAM16	NV	-30	-3.00	-0.00 2	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QAM16	NV	-20	-3.52	-0.00 2	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QAM16	NV	0	-3.33	-0.00 2	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QAM16	NV	10	-1.76	-0.00 1	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QAM16	NV	20	-2.49	-0.00 1	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QPSK	NV	-30	-2.79	-0.00 1	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QPSK	NV	-20	-1.87	-0.00 1	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QPSK	NV	0	-3.26	-0.00 2	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QPSK	NV	10	-3.88	-0.00 2	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QPSK	NV	20	-1.93	-0.00 1	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QAM16	NV	-30	-1.86	-0.00 1	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QAM16	NV	-20	-3.20	-0.00 2	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QAM16	NV	0	-3.96	-0.00 2	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QAM16	NV	10	-1.20	-0.00 1	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QAM16	NV	20	-1.89	-0.00 1	-2.5	2.5	PASS

Appendix 3. Peak-to-Average Ratio

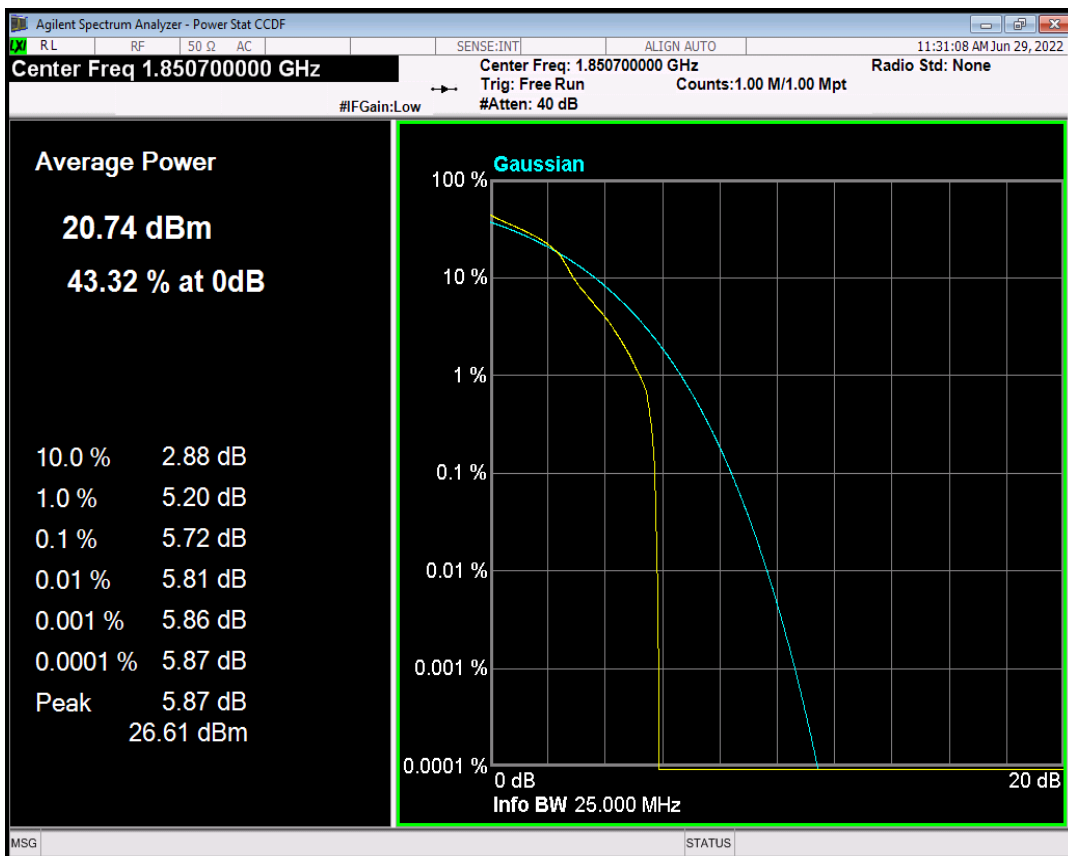
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band2	1.4	18607	1	#0	QPSK	4.83	13	PASS
Band2	1.4	18607	1	#0	QAM16	5.72	13	PASS
Band2	1.4	18900	1	#0	QPSK	4.32	13	PASS
Band2	1.4	18900	1	#0	QAM16	5.26	13	PASS
Band2	1.4	19193	1	#0	QPSK	4.28	13	PASS
Band2	1.4	19193	1	#0	QAM16	5.09	13	PASS
Band2	3	18615	1	#0	QPSK	4.89	13	PASS
Band2	3	18615	1	#0	QAM16	5.72	13	PASS
Band2	3	18900	1	#0	QPSK	4.40	13	PASS
Band2	3	18900	1	#0	QAM16	5.08	13	PASS
Band2	3	19185	1	#0	QPSK	4.28	13	PASS
Band2	3	19185	1	#0	QAM16	5.18	13	PASS
Band2	5	18625	1	#0	QPSK	4.85	13	PASS
Band2	5	18625	1	#0	QAM16	5.79	13	PASS
Band2	5	18900	1	#0	QPSK	4.26	13	PASS
Band2	5	18900	1	#0	QAM16	5.05	13	PASS
Band2	5	19175	1	#0	QPSK	4.31	13	PASS
Band2	5	19175	1	#0	QAM16	5.11	13	PASS
Band2	10	18650	1	#0	QPSK	4.86	13	PASS
Band2	10	18650	1	#0	QAM16	5.67	13	PASS
Band2	10	18900	1	#0	QPSK	4.17	13	PASS
Band2	10	18900	1	#0	QAM16	5.02	13	PASS
Band2	10	19150	1	#0	QPSK	4.66	13	PASS
Band2	10	19150	1	#0	QAM16	5.55	13	PASS
Band2	15	18675	1	#0	QPSK	4.84	13	PASS
Band2	15	18675	1	#0	QAM16	5.61	13	PASS
Band2	15	18900	1	#0	QPSK	4.29	13	PASS
Band2	15	18900	1	#0	QAM16	5.09	13	PASS
Band2	15	19125	1	#0	QPSK	4.55	13	PASS
Band2	15	19125	1	#0	QAM16	5.36	13	PASS
Band2	20	18700	1	#0	QPSK	4.82	13	PASS
Band2	20	18700	1	#0	QAM16	5.61	13	PASS
Band2	20	18900	1	#0	QPSK	4.53	13	PASS
Band2	20	18900	1	#0	QAM16	5.48	13	PASS
Band2	20	19100	1	#0	QPSK	4.44	13	PASS
Band2	20	19100	1	#0	QAM16	5.29	13	PASS



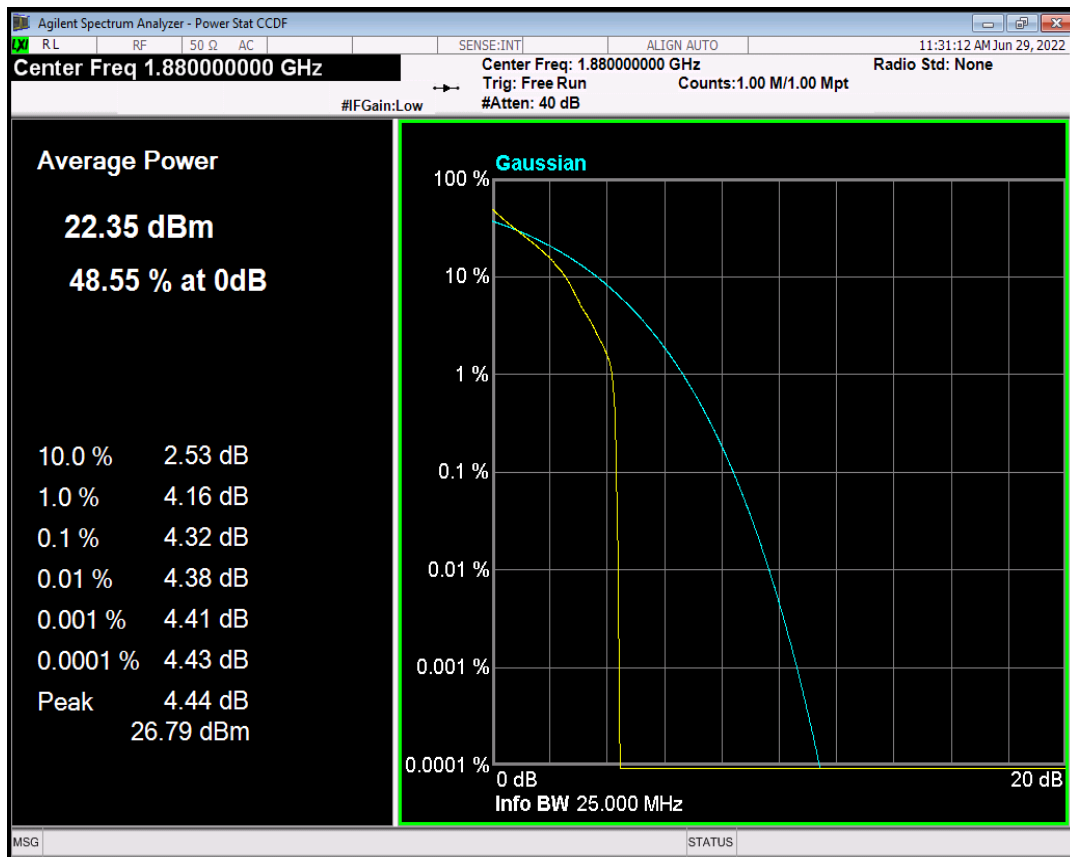
Band2 QPSK BW=1.4MHz Channel=18607 RB Size=1 Position=#0



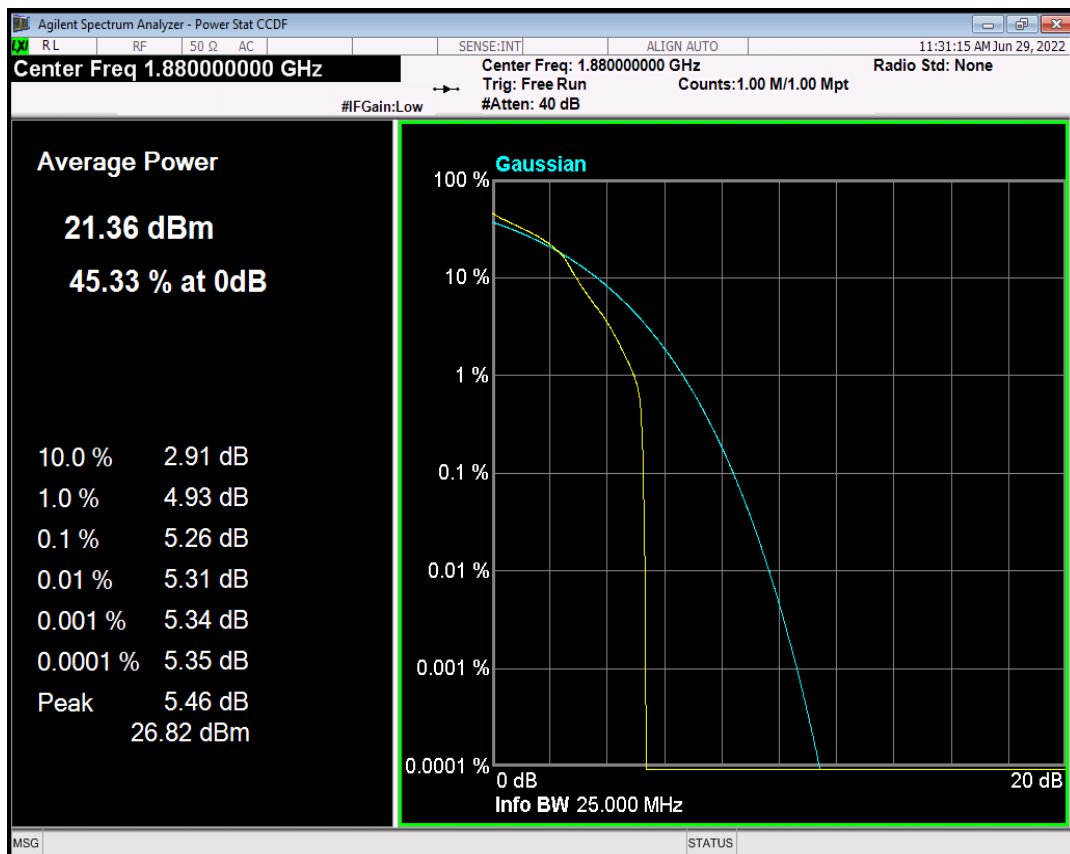
Band2 QAM16 BW=1.4MHz Channel=18607 RB Size=1 Position=#0



Band2 QPSK BW=1.4MHz Channel=18900 RB Size=1 Position=#0

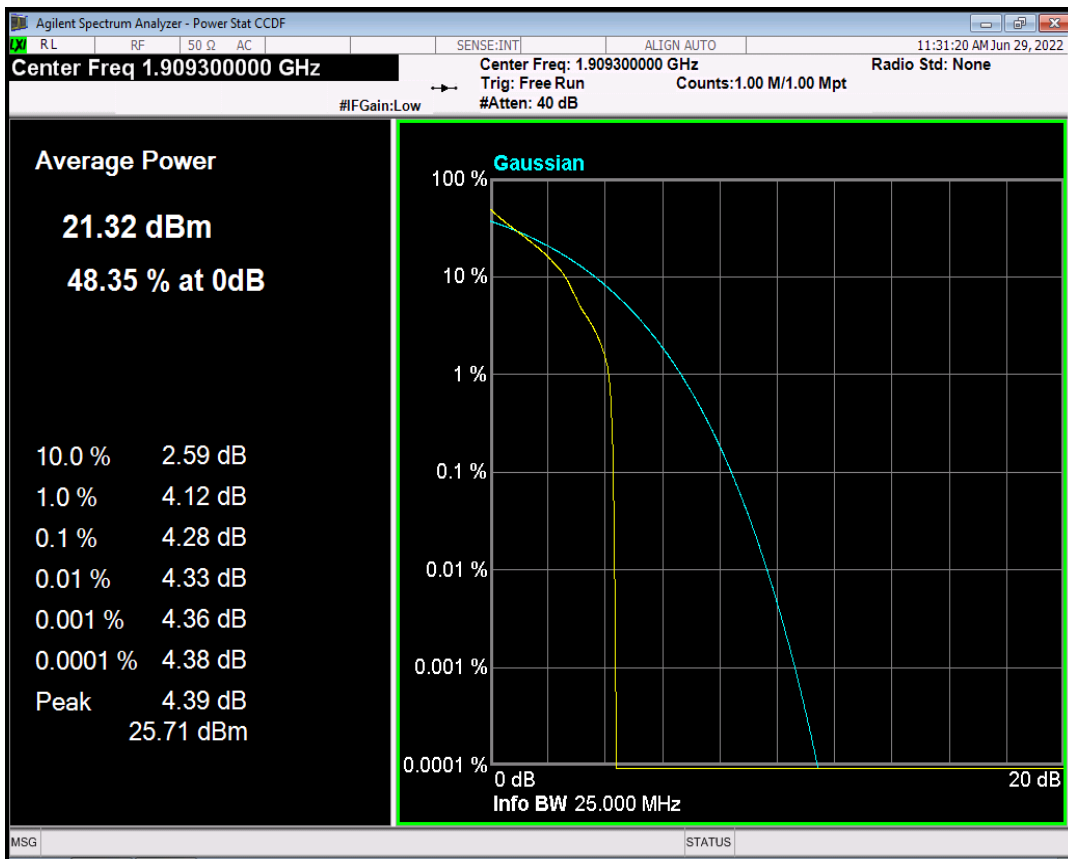


Band2 QAM16 BW=1.4MHz Channel=18900 RB Size=1 Position=#0

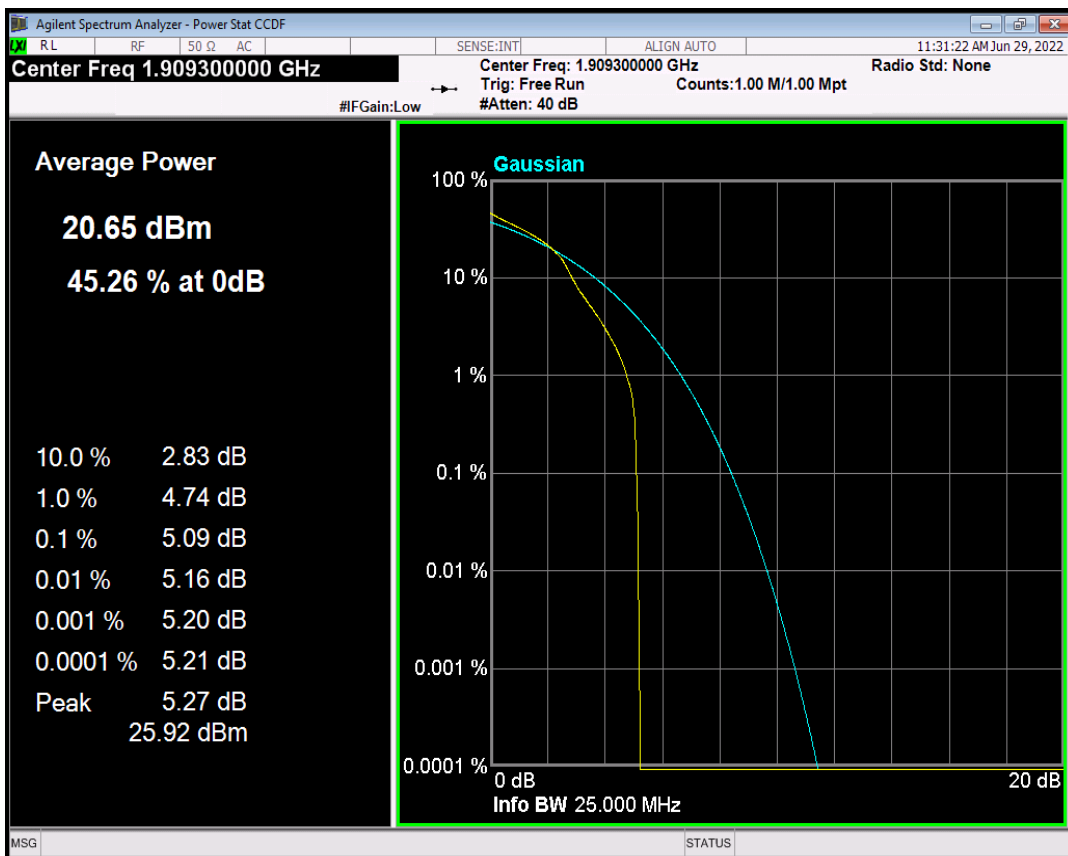




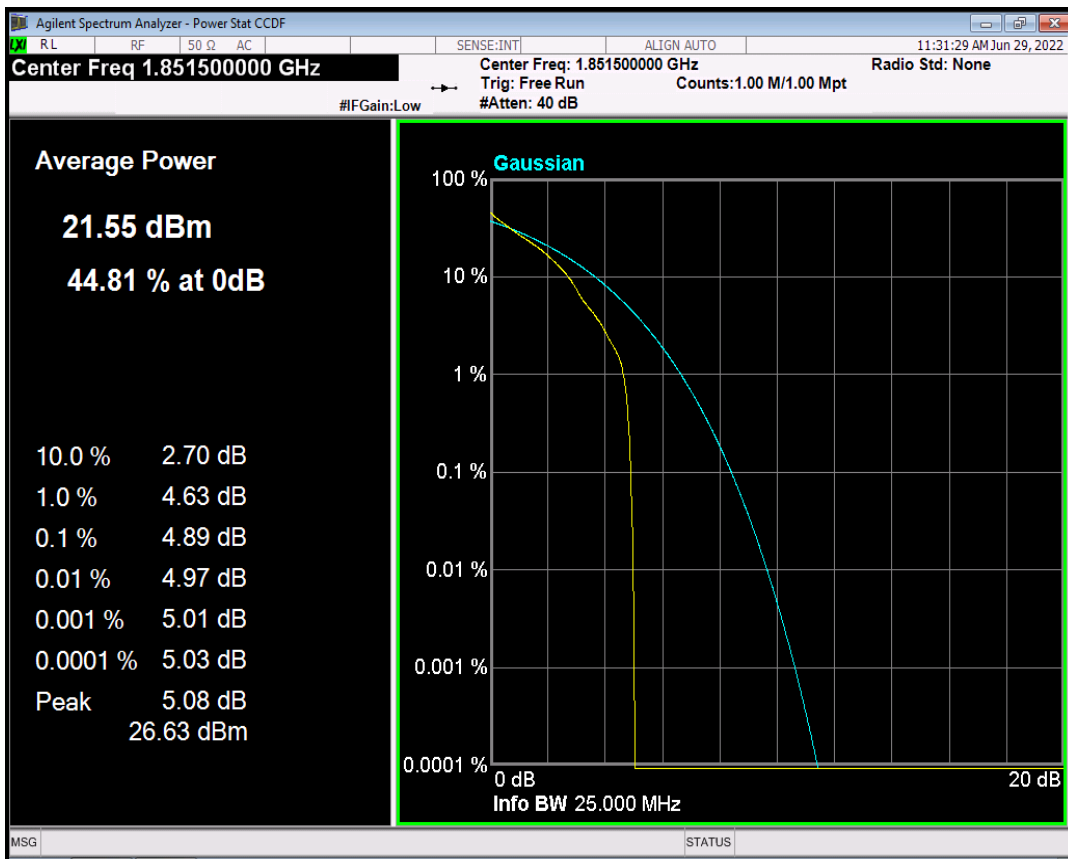
Band2 QPSK BW=1.4MHz Channel=19193 RB Size=1 Position=#0



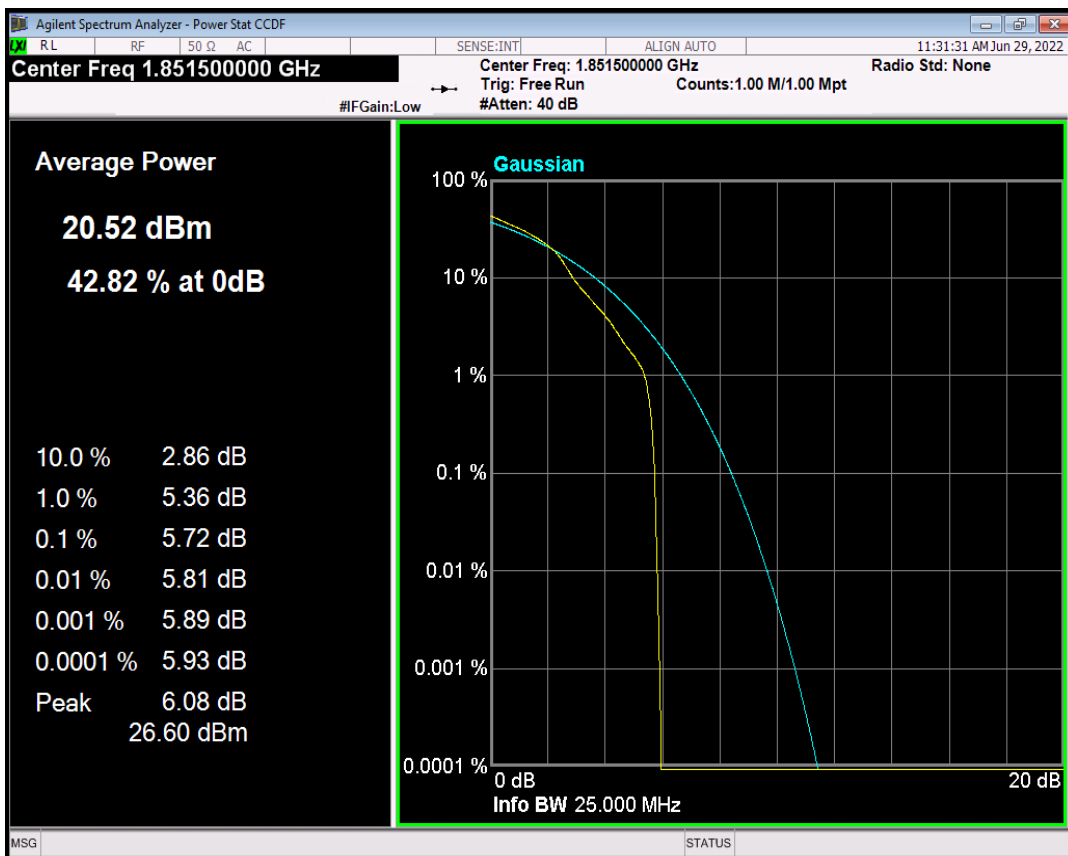
Band2 QAM16 BW=1.4MHz Channel=19193 RB Size=1 Position=#0



Band2 QPSK BW=3MHz Channel=18615 RB Size=1 Position=#0

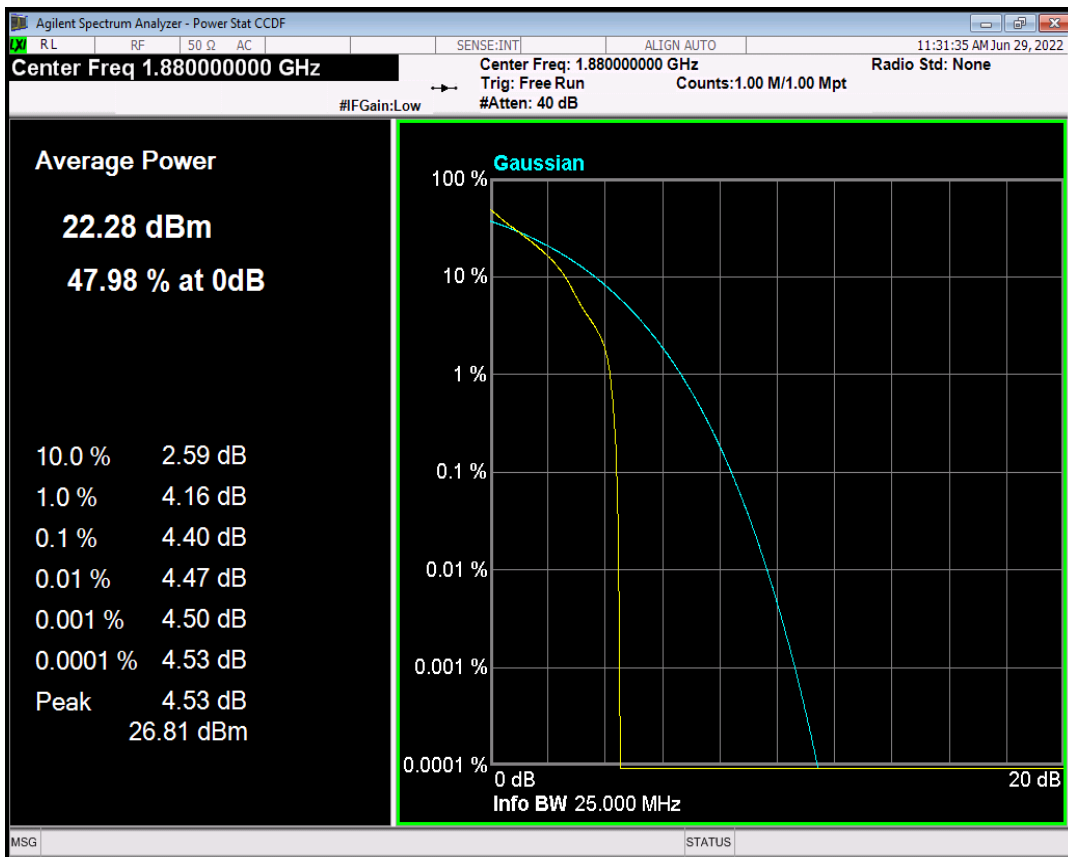


Band2 QAM16 BW=3MHz Channel=18615 RB Size=1 Position=#0

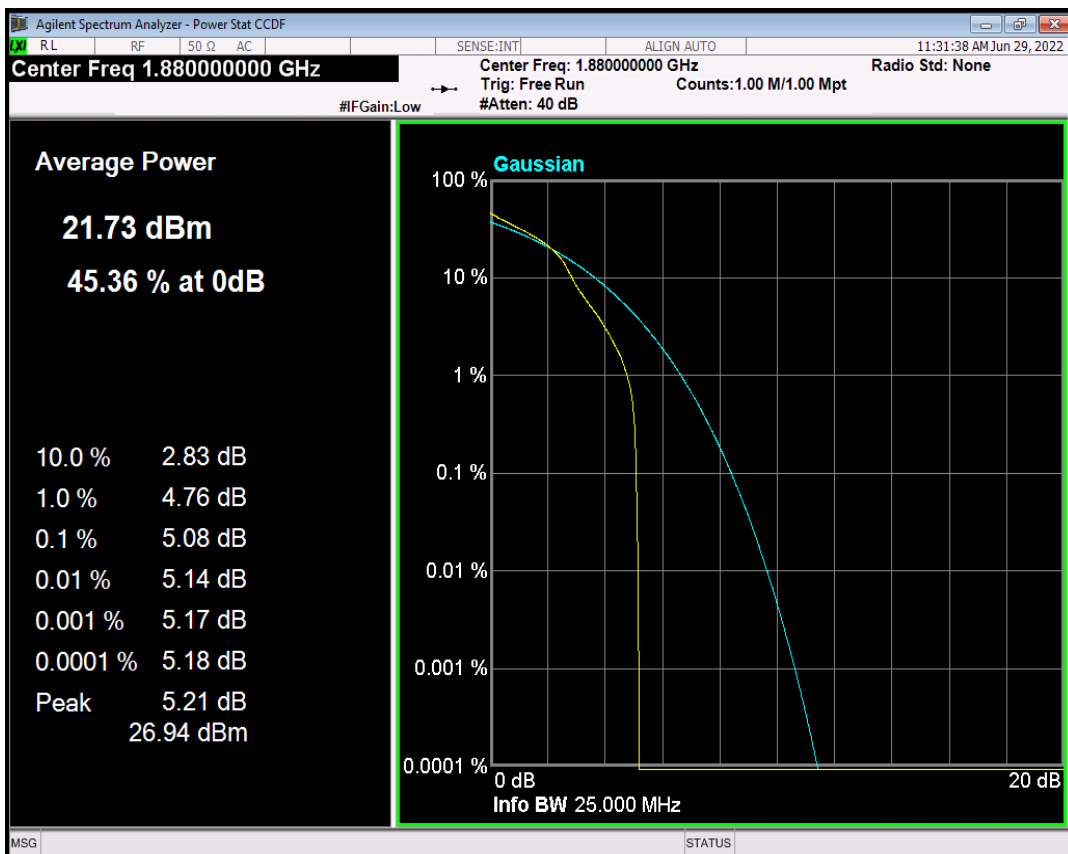




Band2 QPSK BW=3MHz Channel=18900 RB Size=1 Position=#0

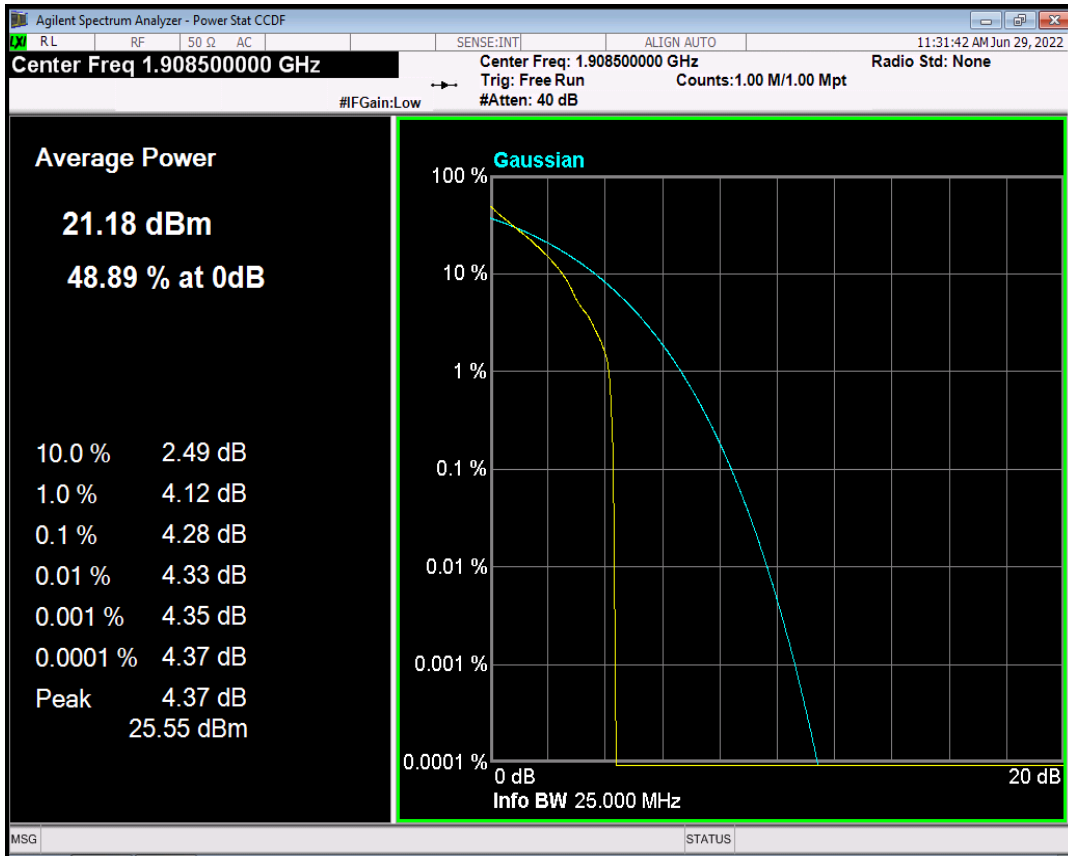


Band2 QAM16 BW=3MHz Channel=18900 RB Size=1 Position=#0

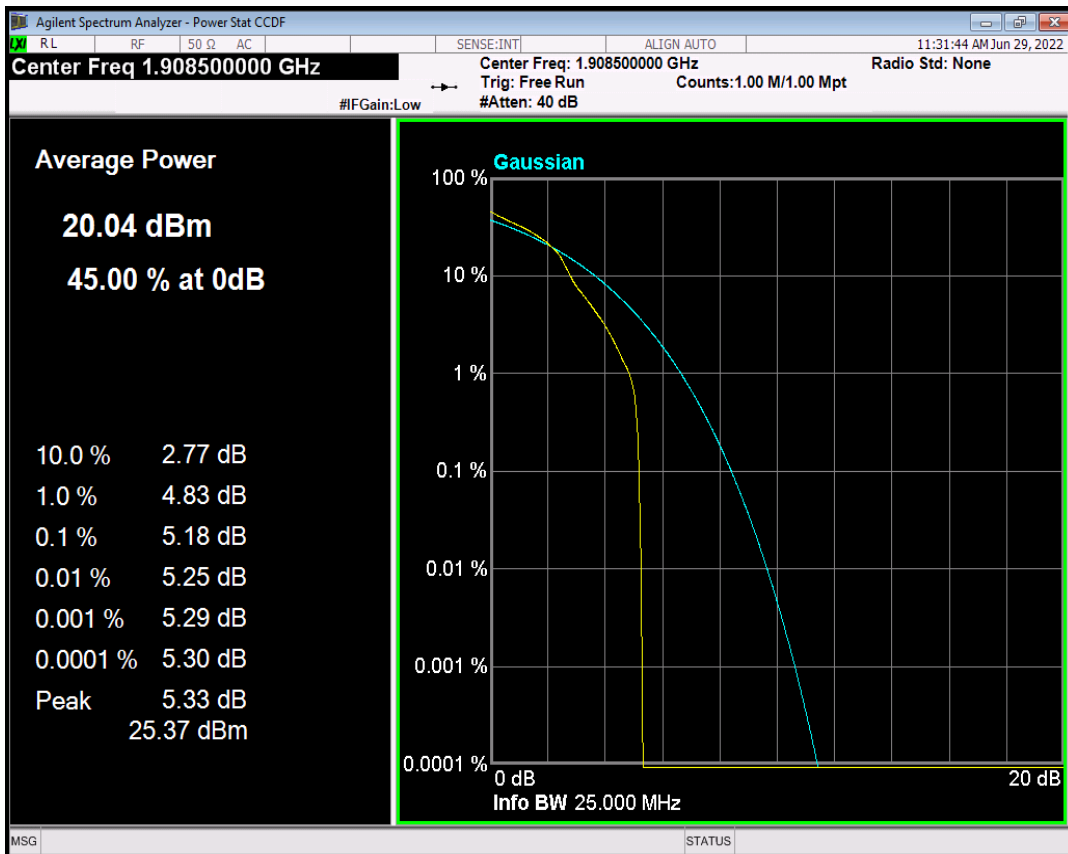




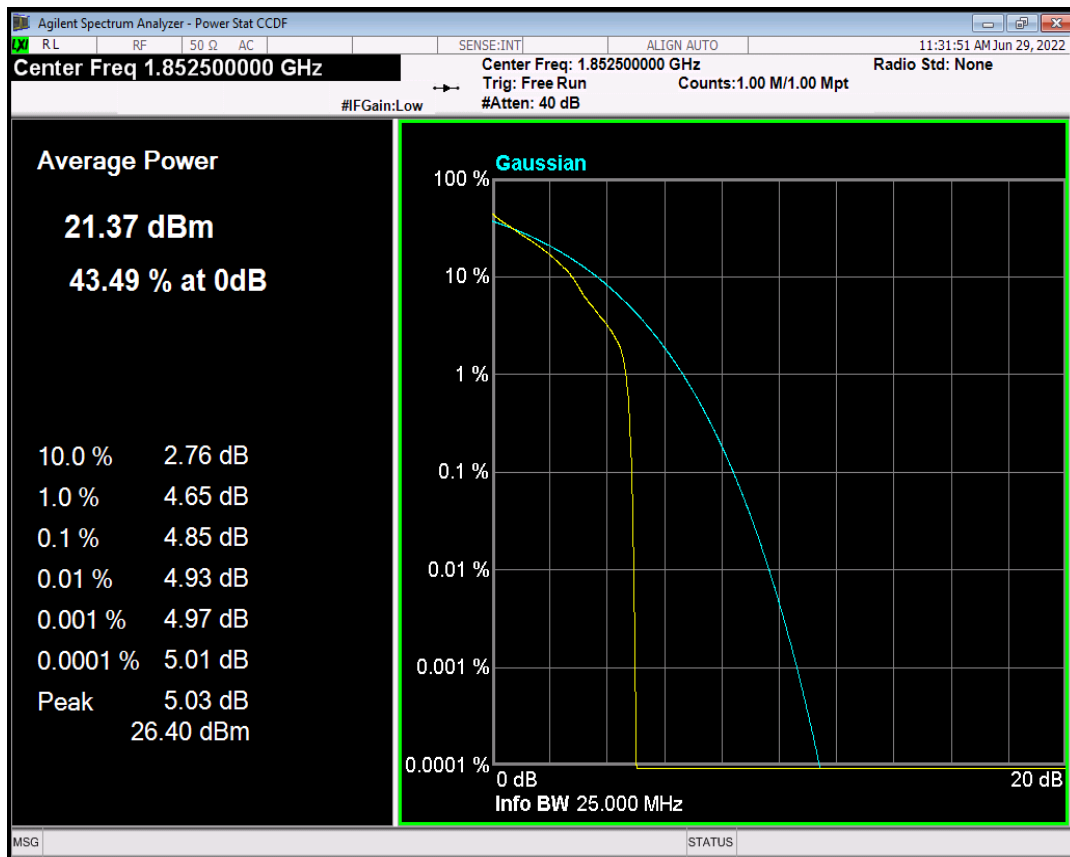
Band2 QPSK BW=3MHz Channel=19185 RB Size=1 Position=#0



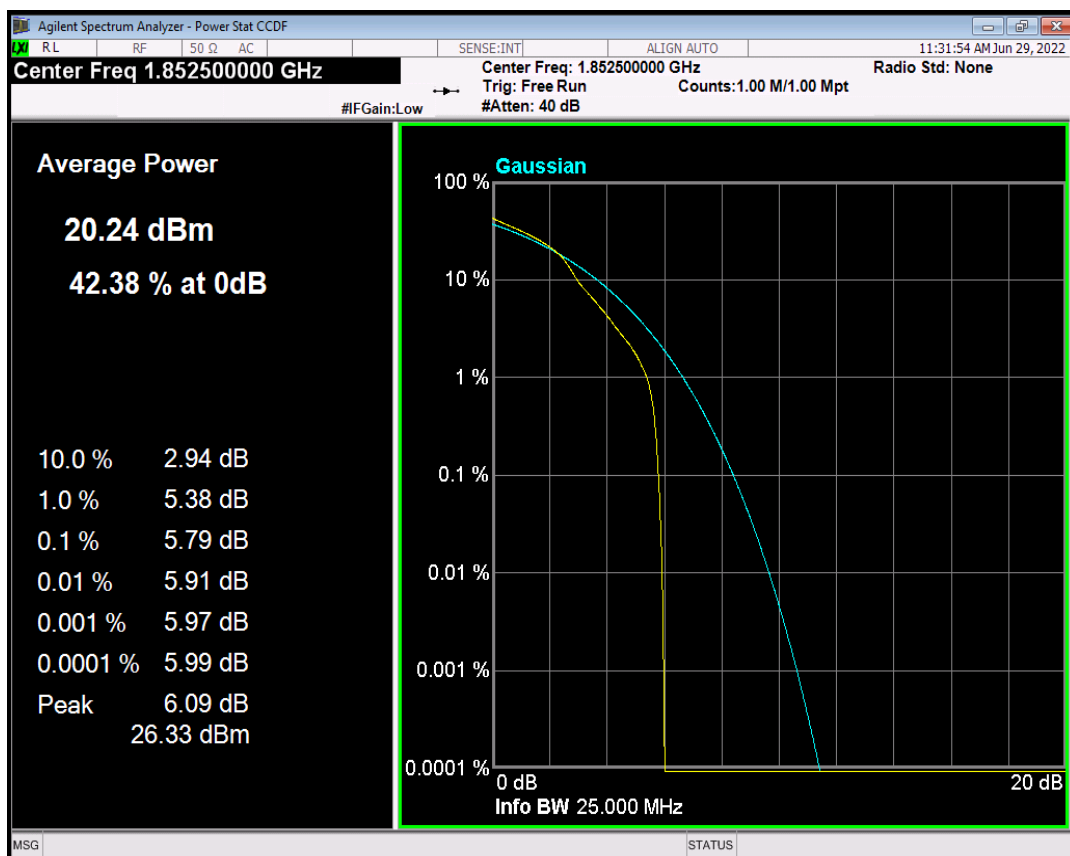
Band2 QAM16 BW=3MHz Channel=19185 RB Size=1 Position=#0



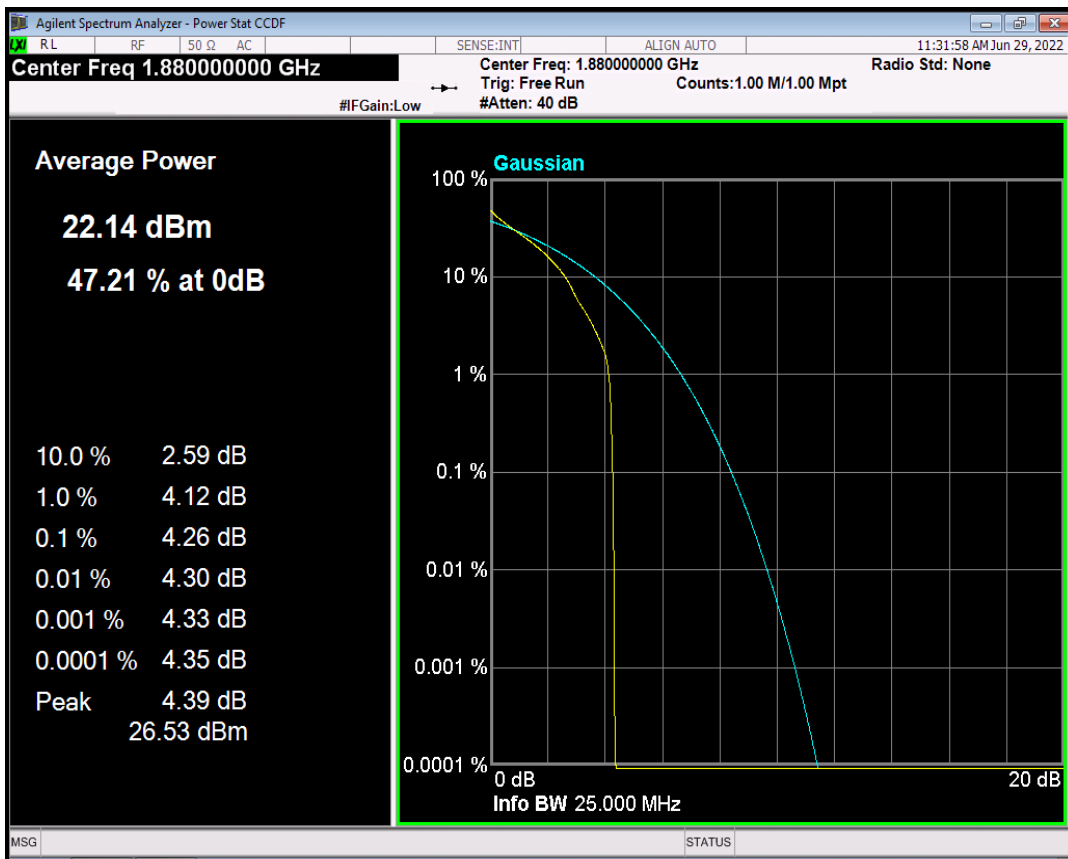
Band2 QPSK BW=5MHz Channel=18625 RB Size=1 Position=#0



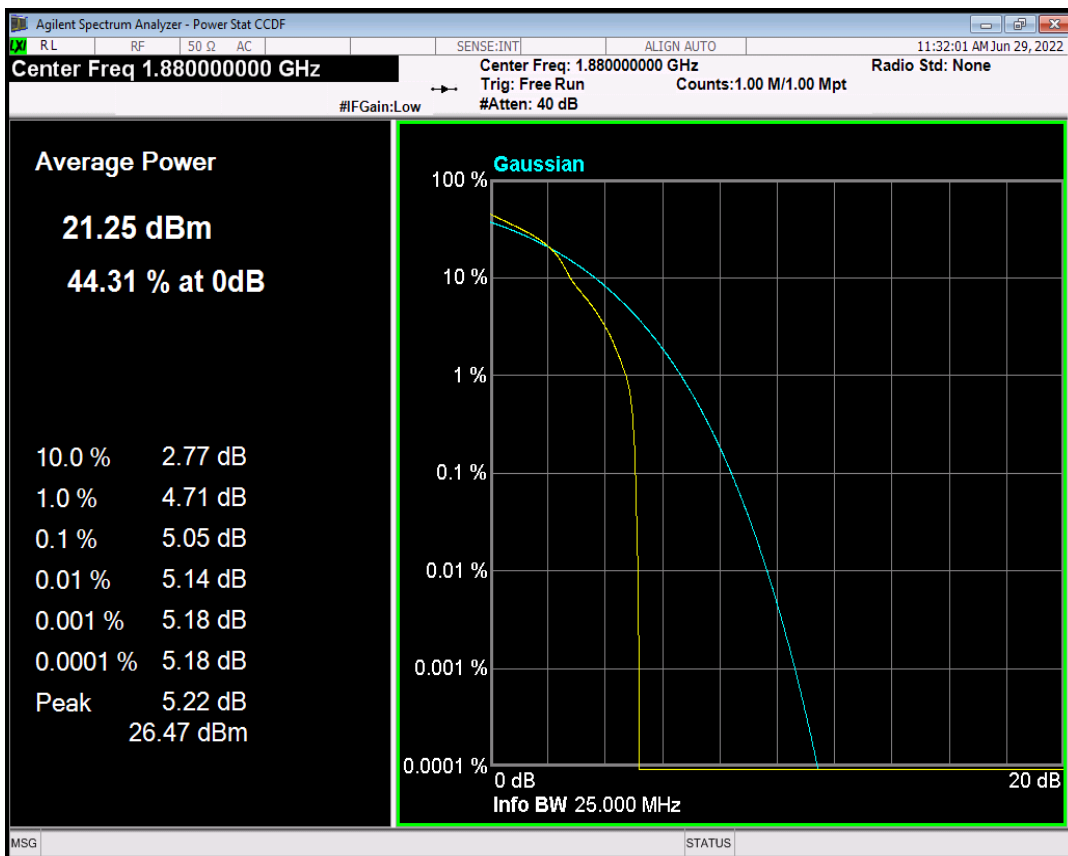
Band2 QAM16 BW=5MHz Channel=18625 RB Size=1 Position=#0



Band2 QPSK BW=5MHz Channel=18900 RB Size=1 Position=#0

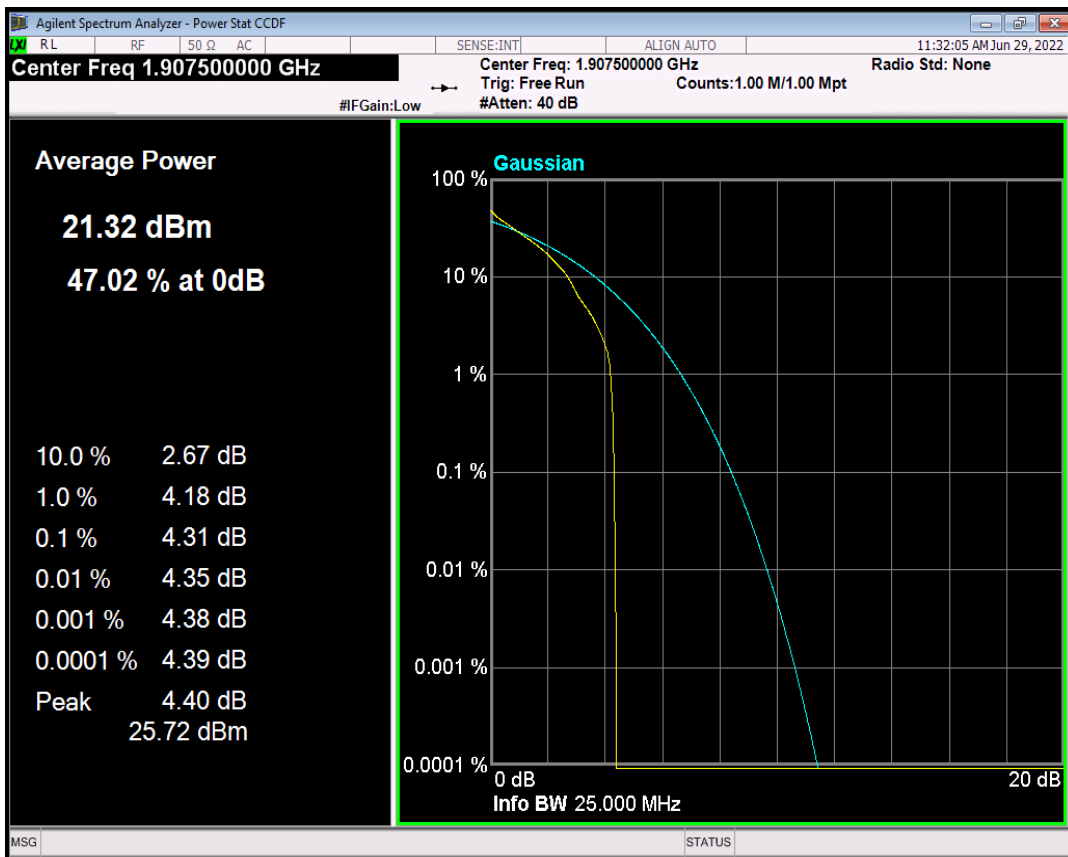


Band2 QAM16 BW=5MHz Channel=18900 RB Size=1 Position=#0

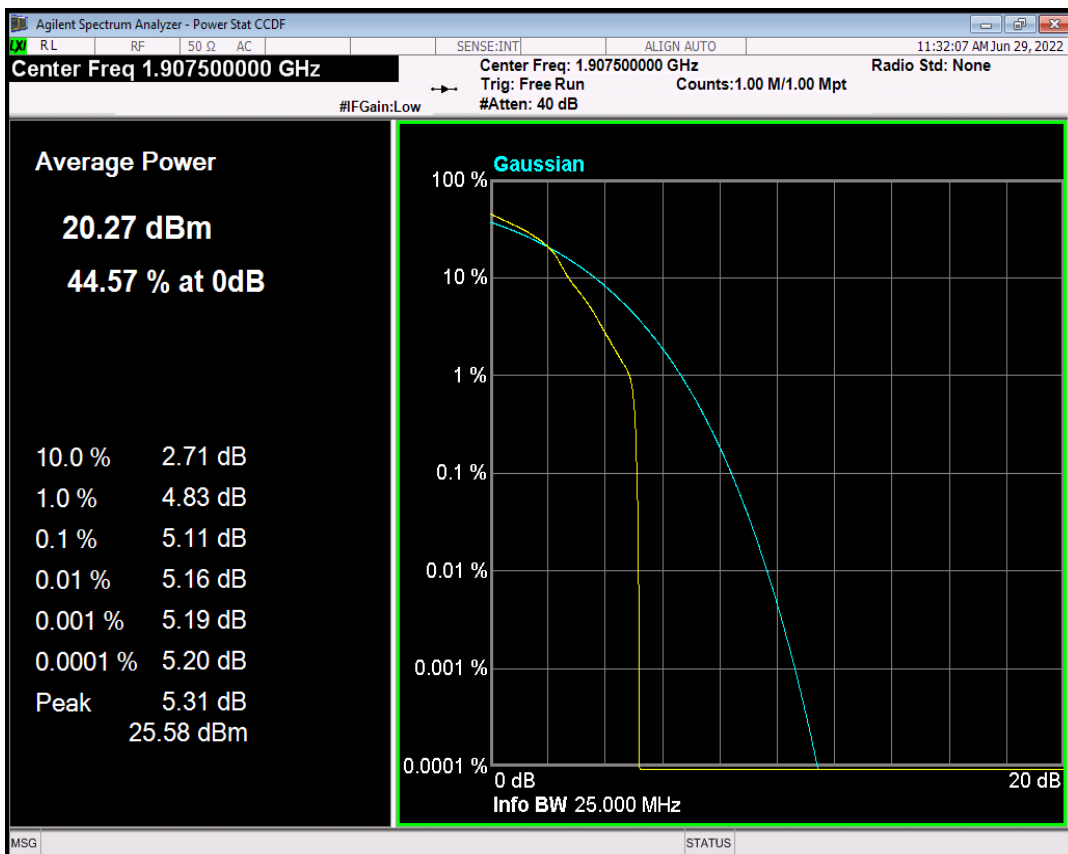




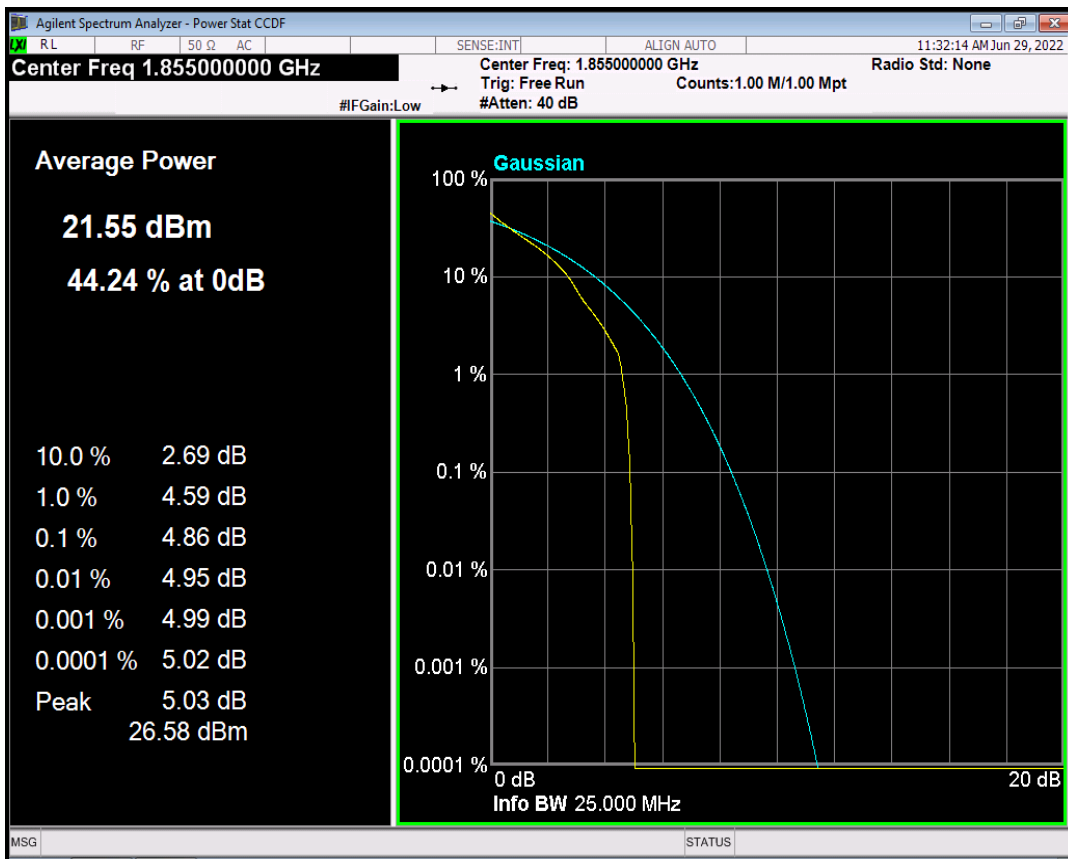
Band2 QPSK BW=5MHz Channel=19175 RB Size=1 Position=#0



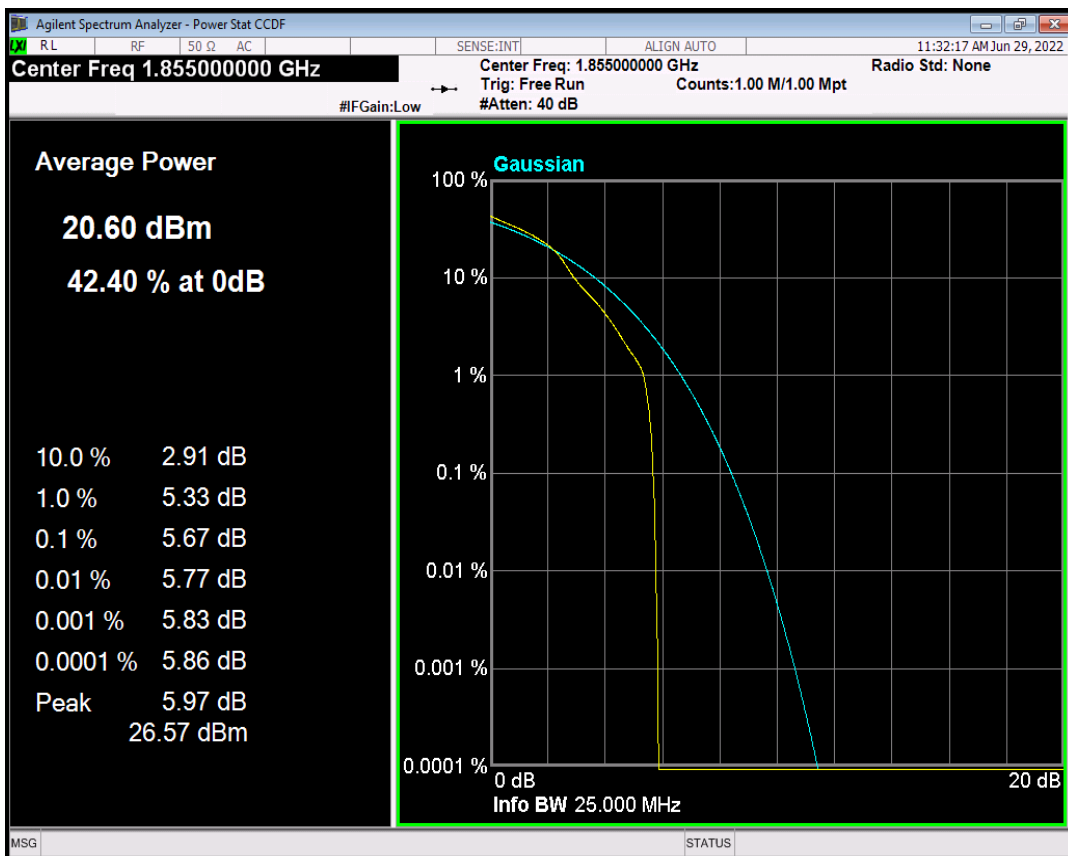
Band2 QAM16 BW=5MHz Channel=19175 RB Size=1 Position=#0



Band2 QPSK BW=10MHz Channel=18650 RB Size=1 Position=#0

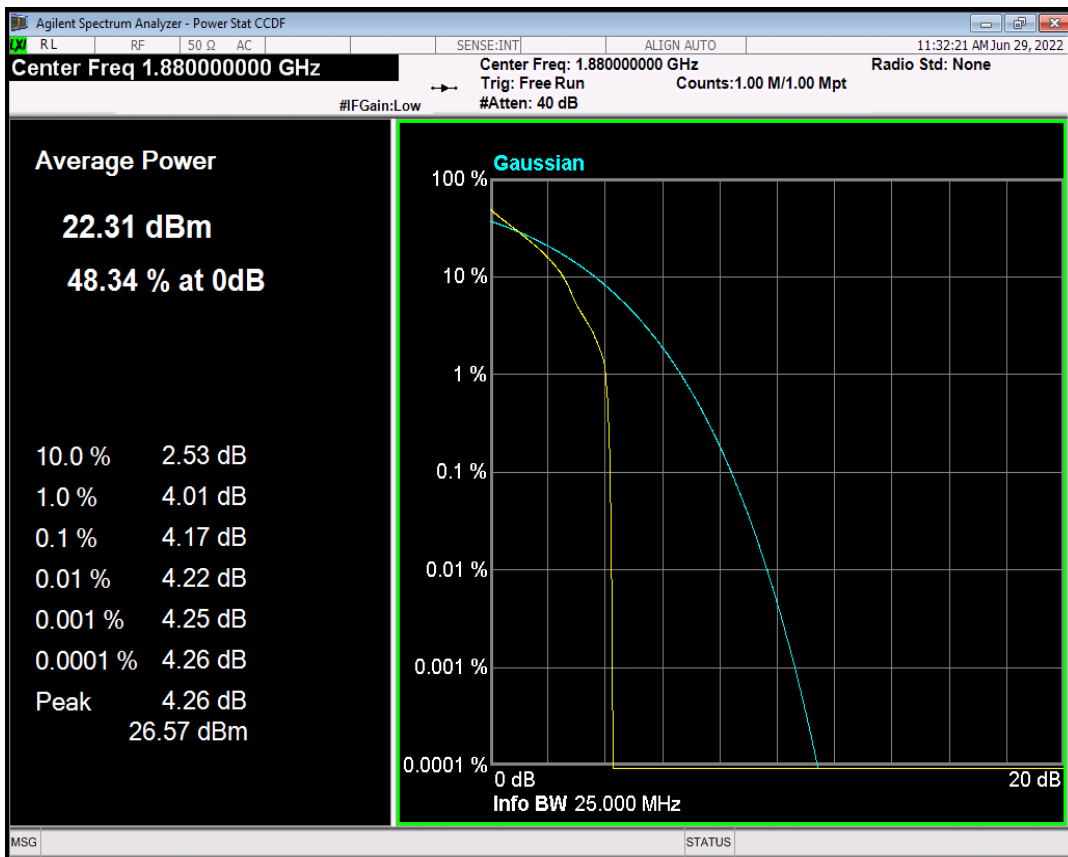


Band2 QAM16 BW=10MHz Channel=18650 RB Size=1 Position=#0

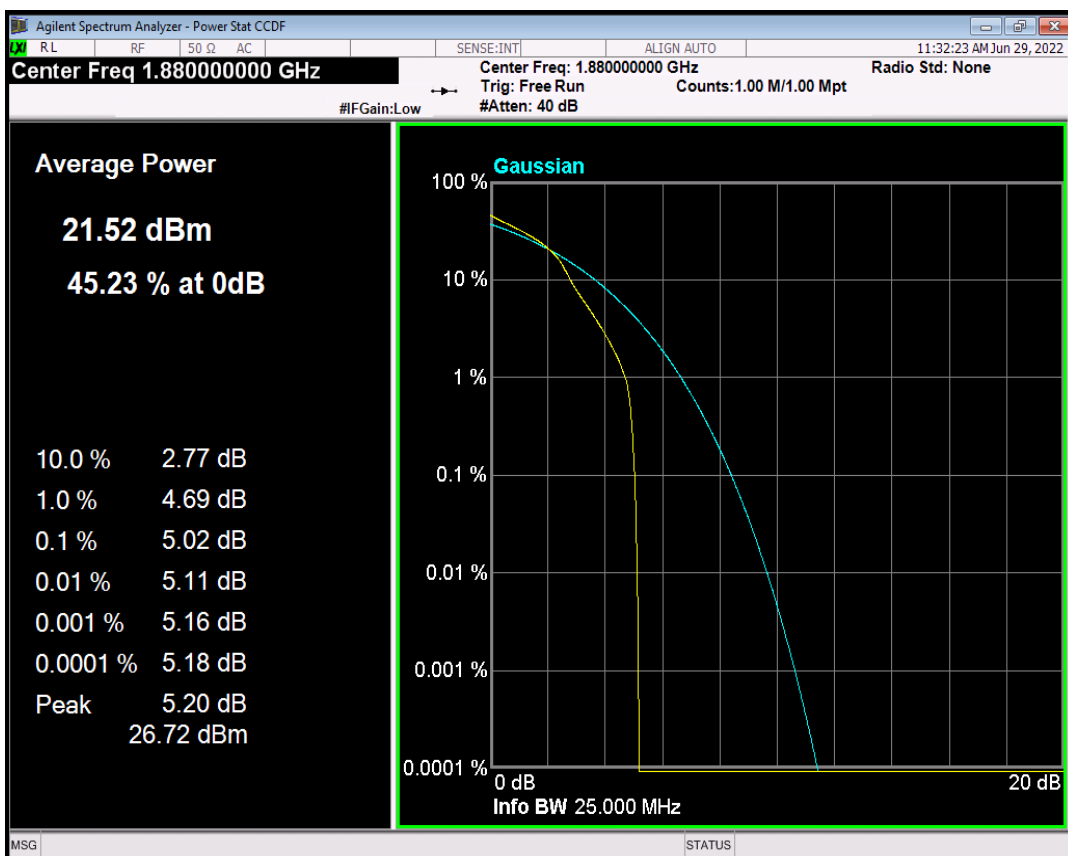




Band2 QPSK BW=10MHz Channel=18900 RB Size=1 Position=#0

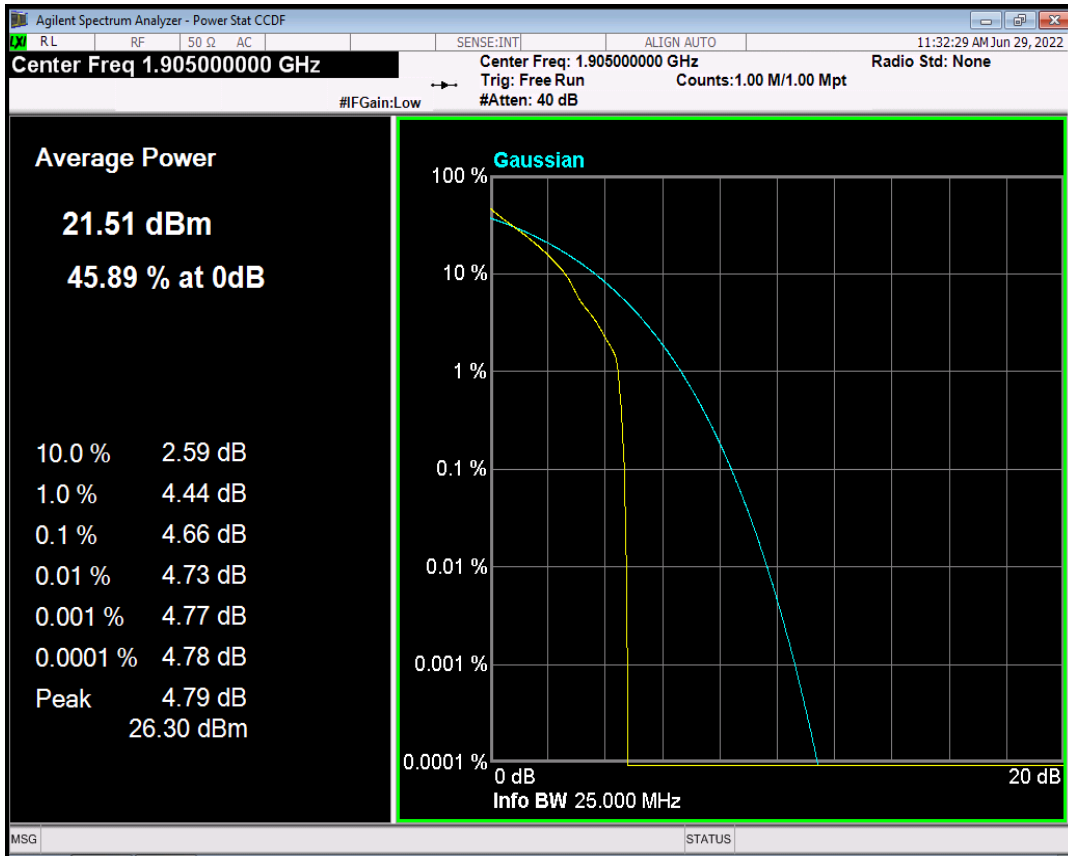


Band2 QAM16 BW=10MHz Channel=18900 RB Size=1 Position=#0

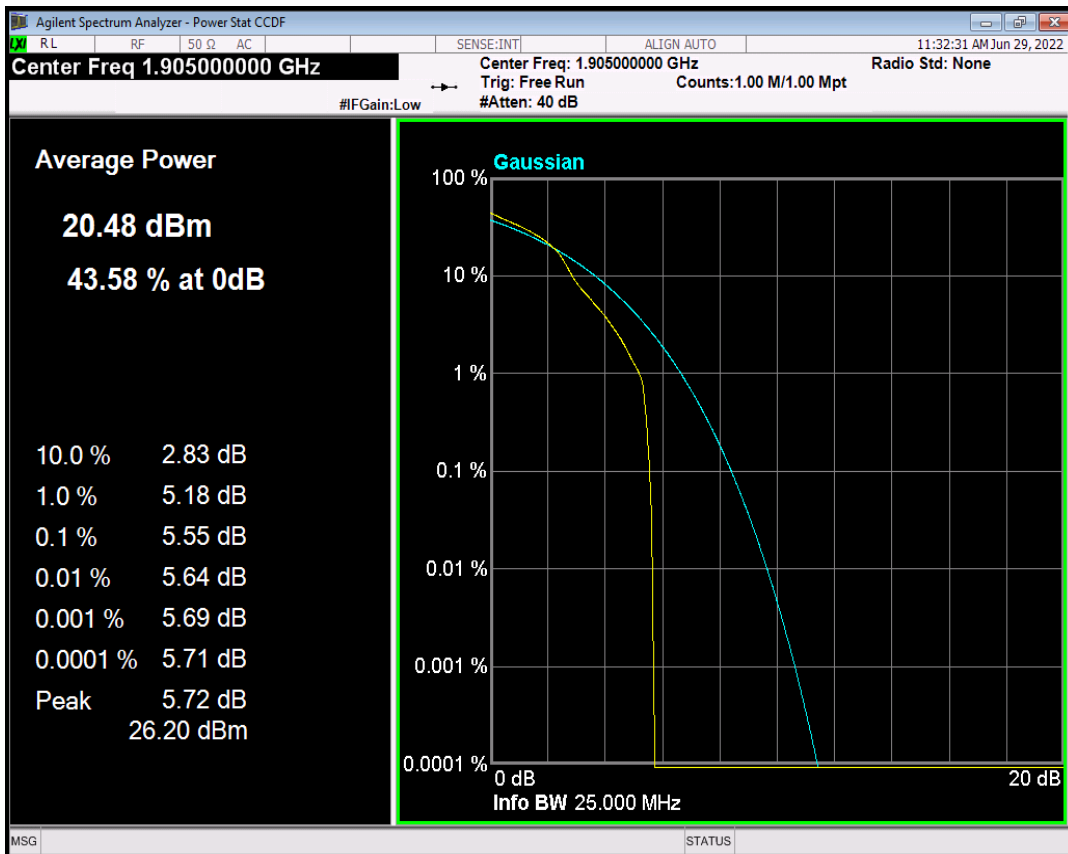




Band2 QPSK BW=10MHz Channel=19150 RB Size=1 Position=#0

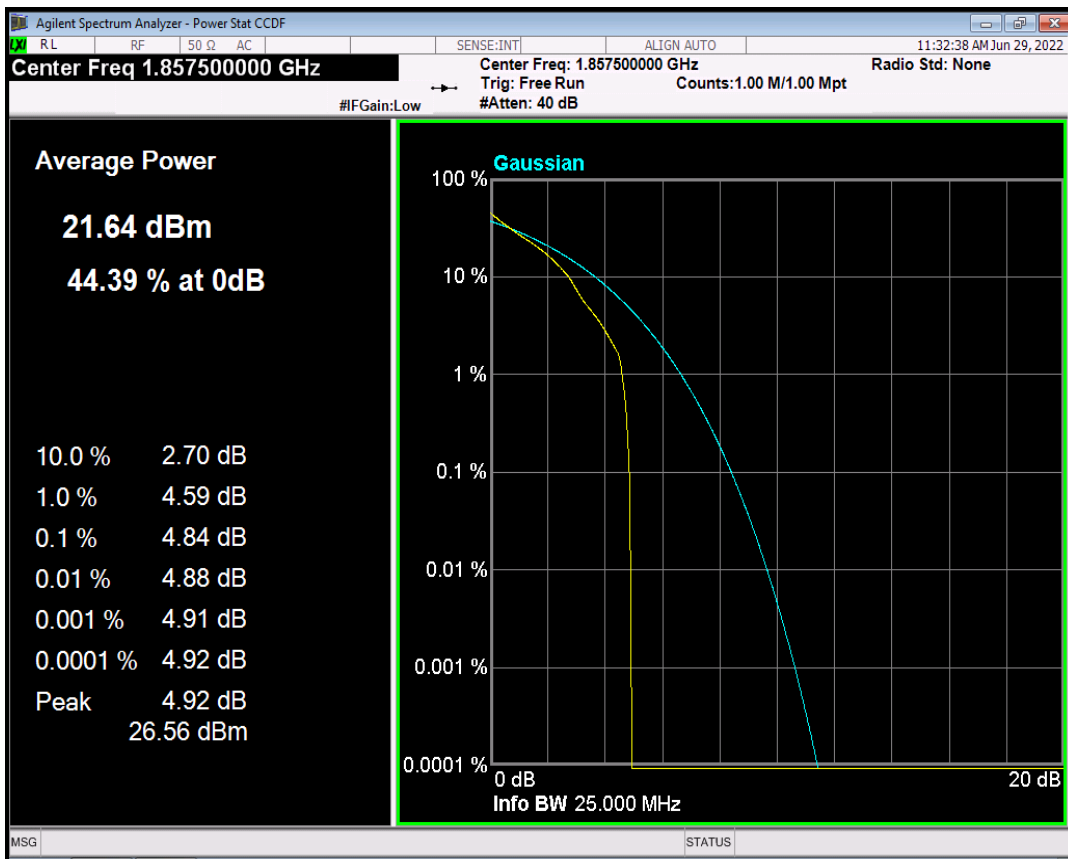


Band2 QAM16 BW=10MHz Channel=19150 RB Size=1 Position=#0

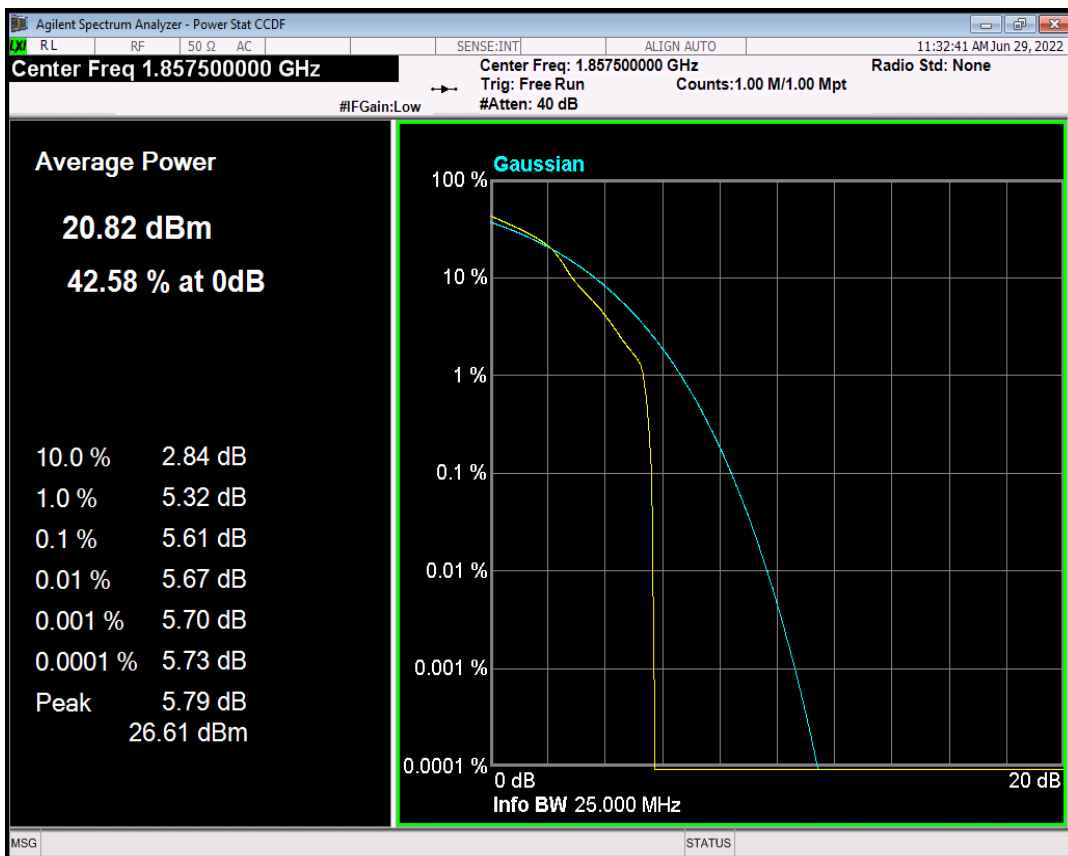




Band2 QPSK BW=15MHz Channel=18675 RB Size=1 Position=#0

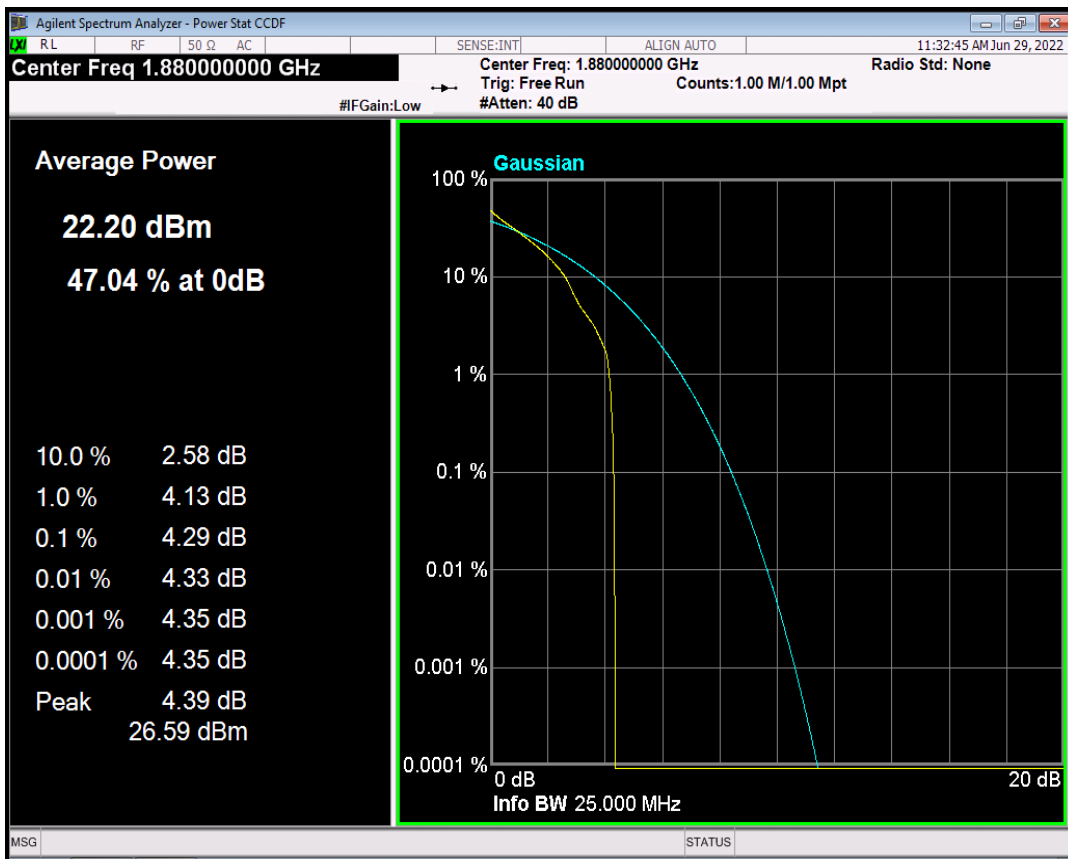


Band2 QAM16 BW=15MHz Channel=18675 RB Size=1 Position=#0

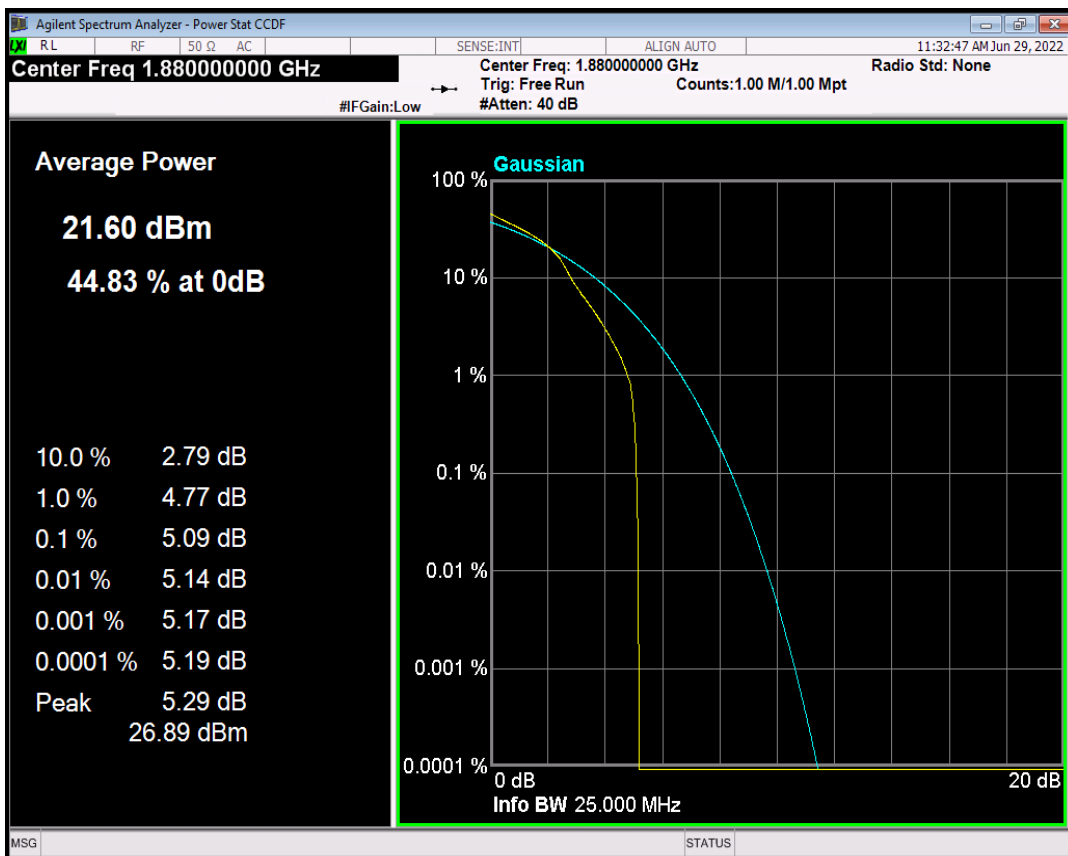




Band2 QPSK BW=15MHz Channel=18900 RB Size=1 Position=#0

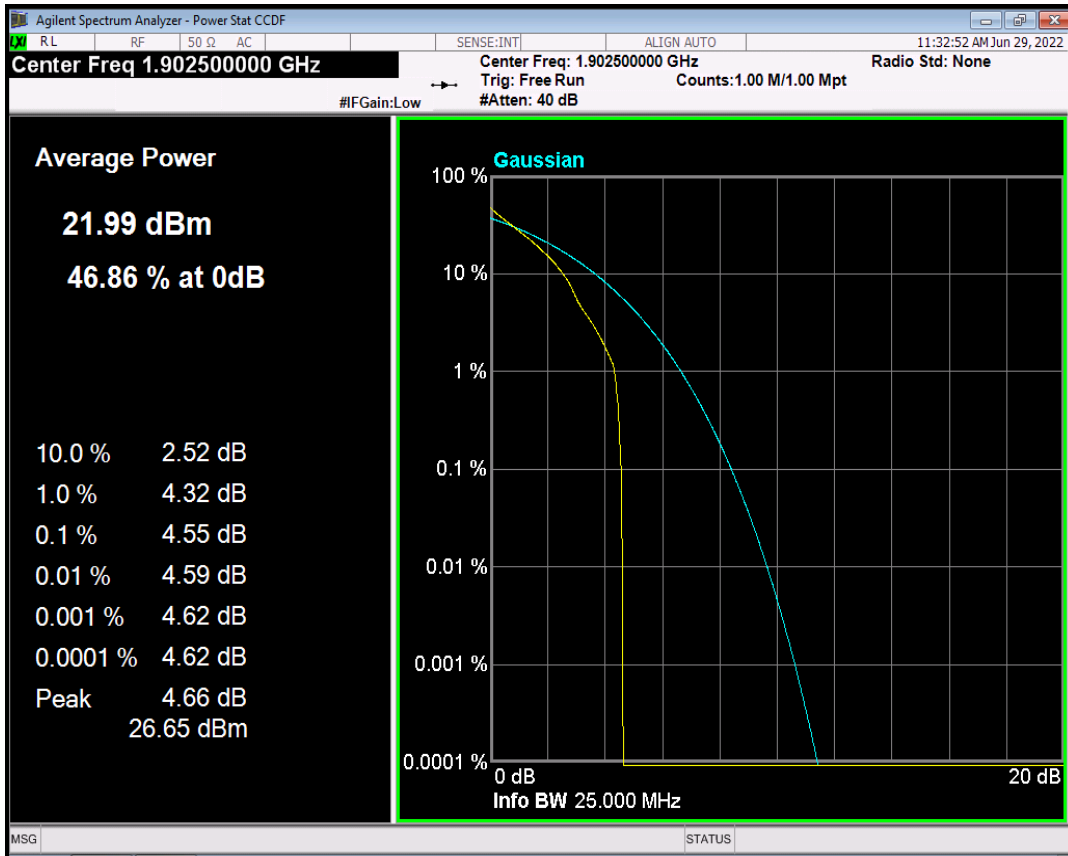


Band2 QAM16 BW=15MHz Channel=18900 RB Size=1 Position=#0

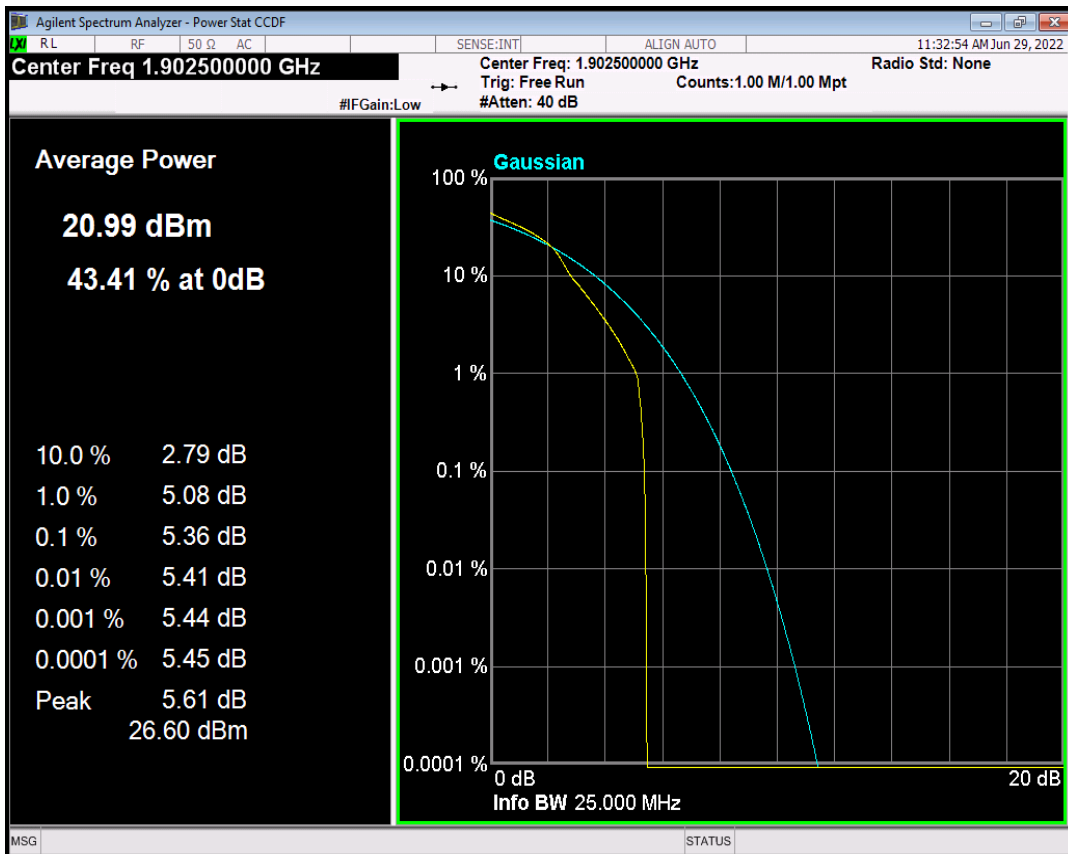




Band2 QPSK BW=15MHz Channel=19125 RB Size=1 Position=#0

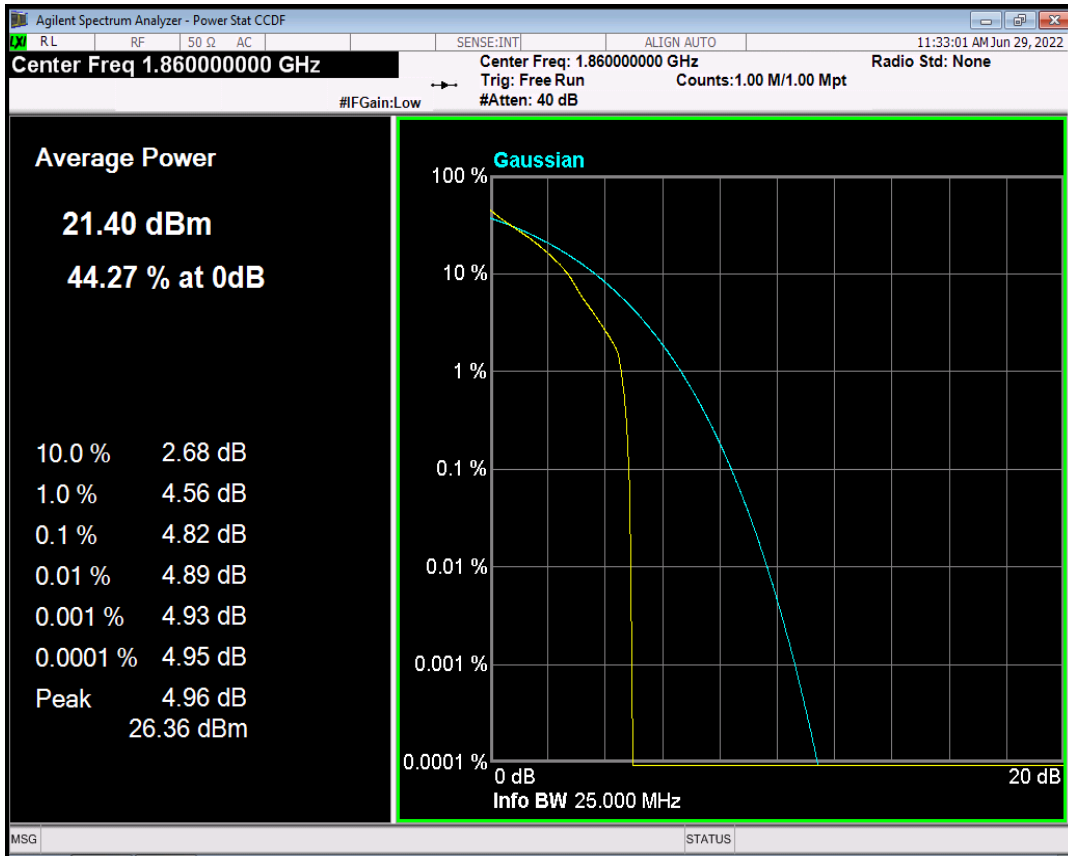


Band2 QAM16 BW=15MHz Channel=19125 RB Size=1 Position=#0

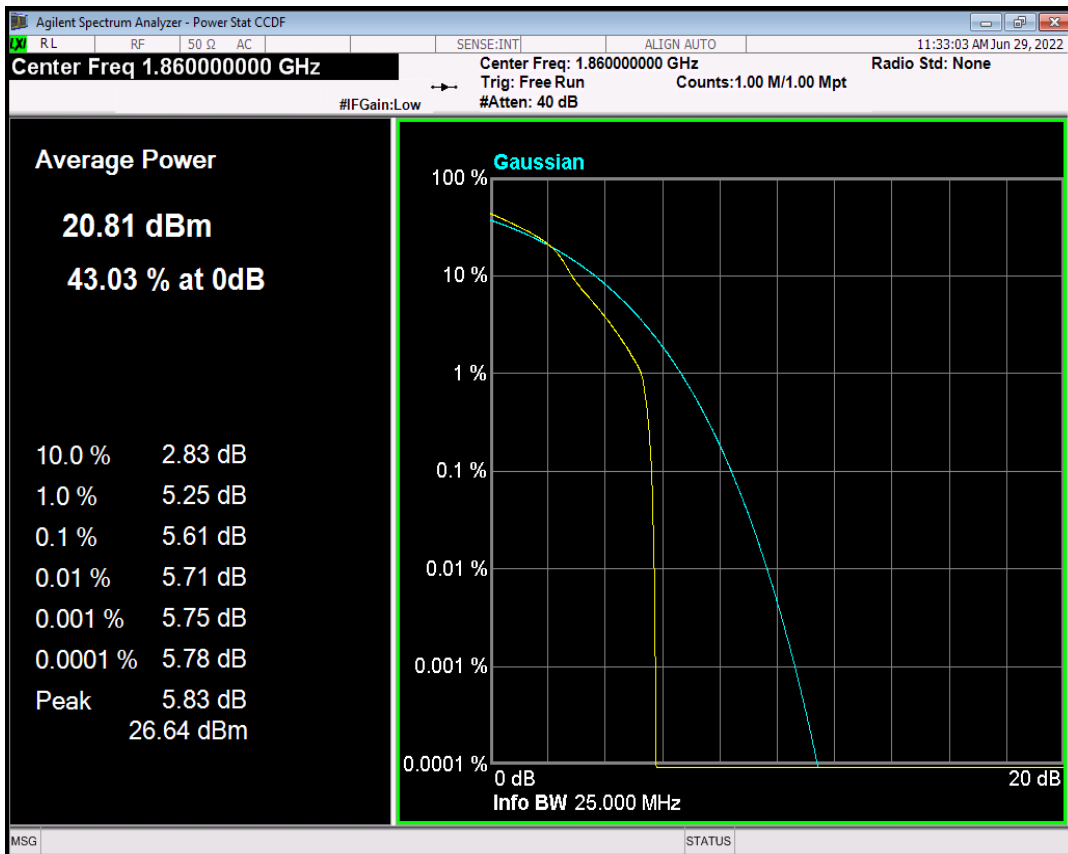




Band2 QPSK BW=20MHz Channel=18700 RB Size=1 Position=#0

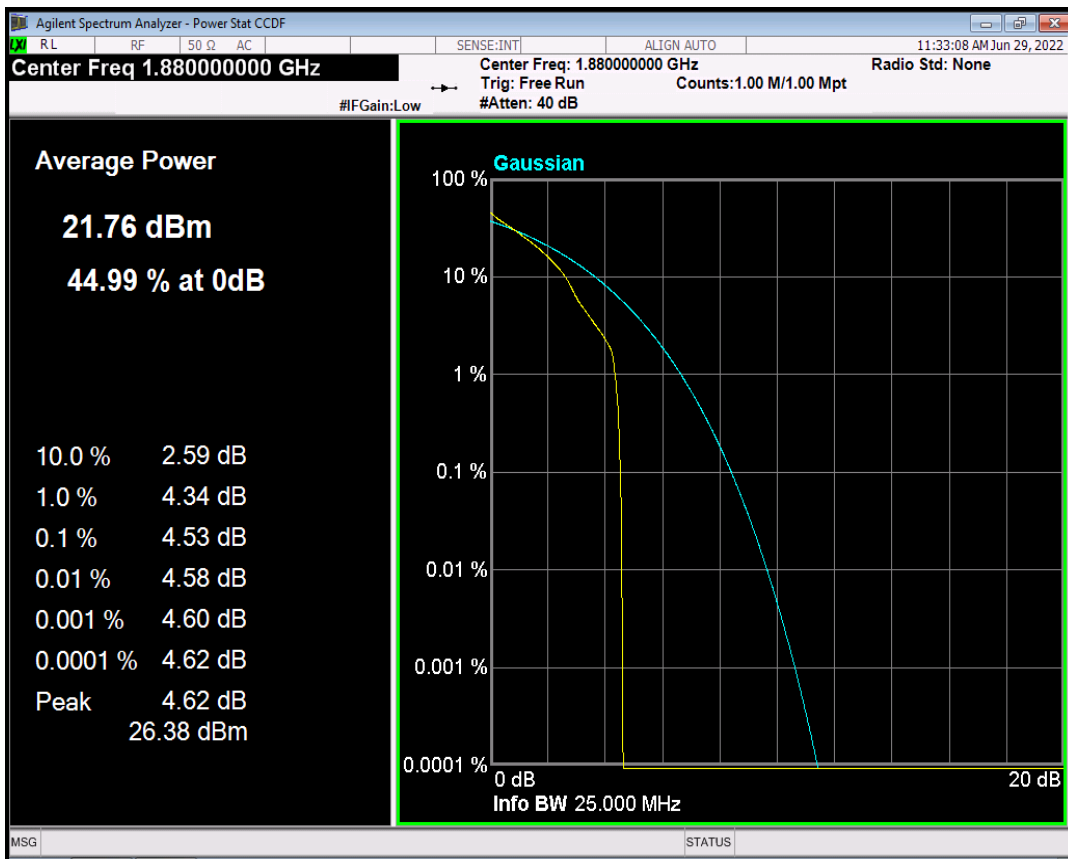


Band2 QAM16 BW=20MHz Channel=18700 RB Size=1 Position=#0

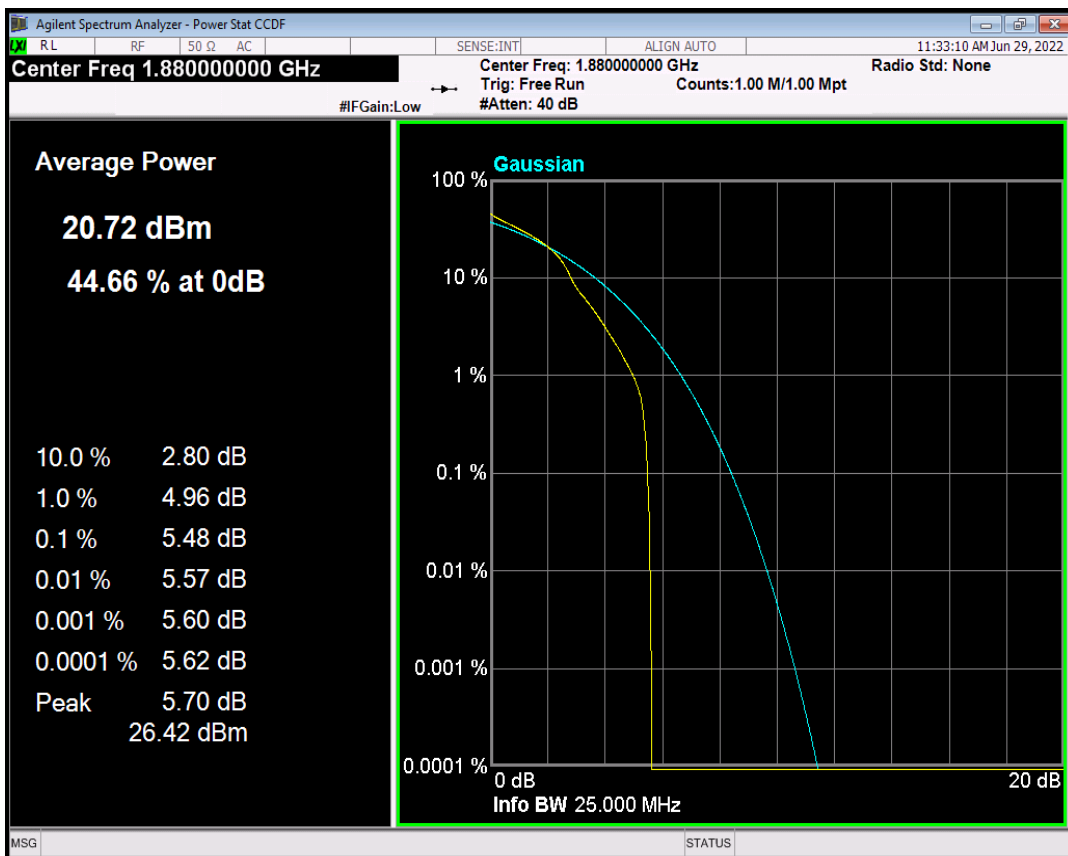




Band2 QPSK BW=20MHz Channel=18900 RB Size=1 Position=#0

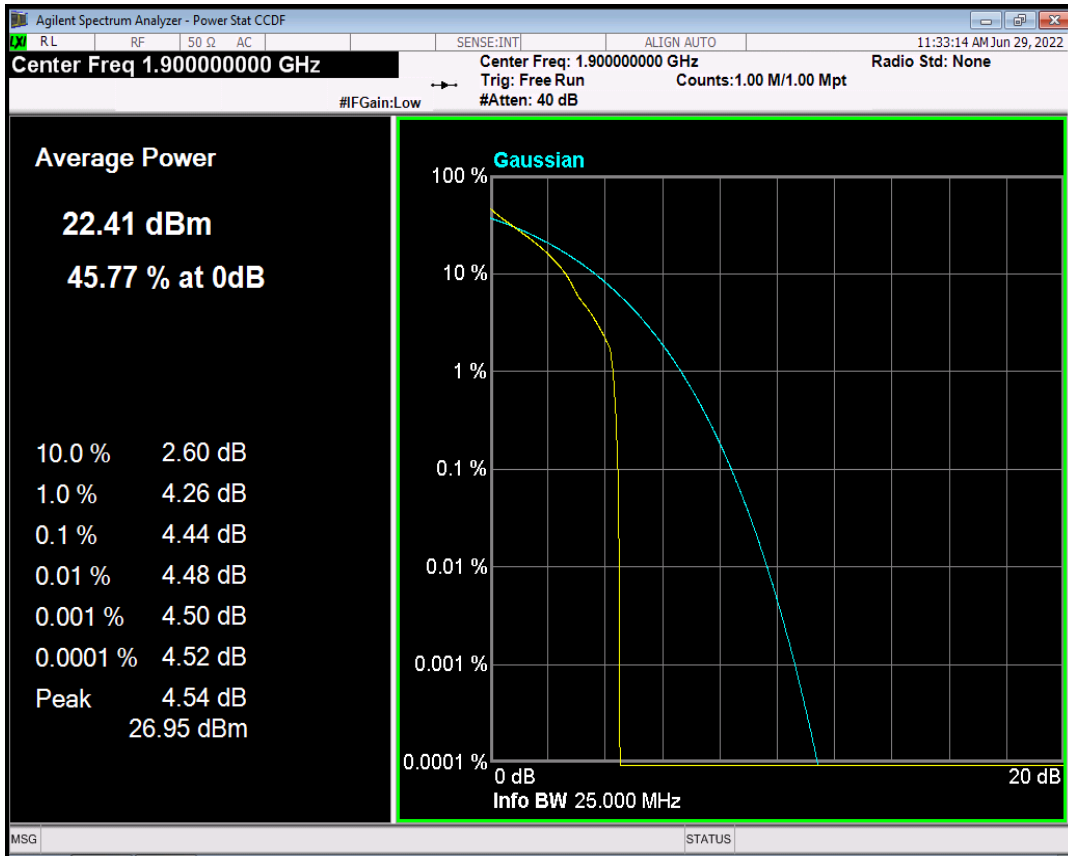


Band2 QAM16 BW=20MHz Channel=18900 RB Size=1 Position=#0

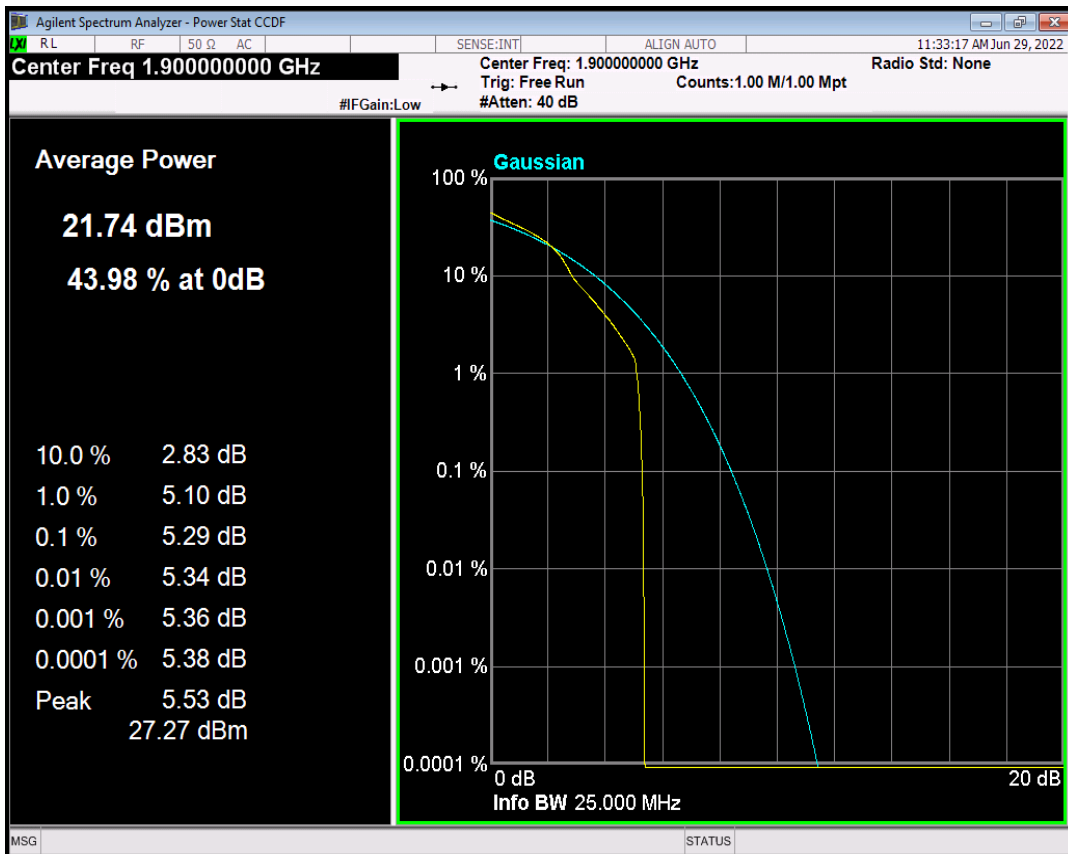




Band2 QPSK BW=20MHz Channel=19100 RB Size=1 Position=#0



Band2 QAM16 BW=20MHz Channel=19100 RB Size=1 Position=#0

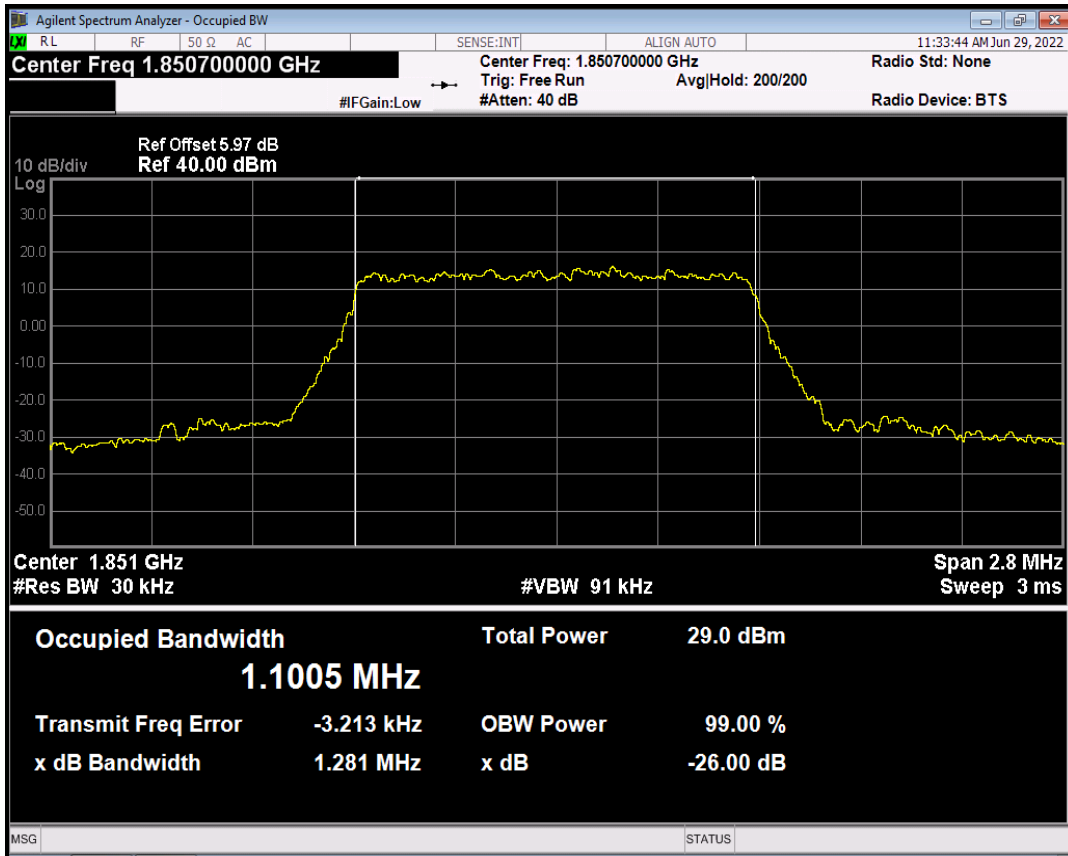


Appendix 4. Occupied bandwidth

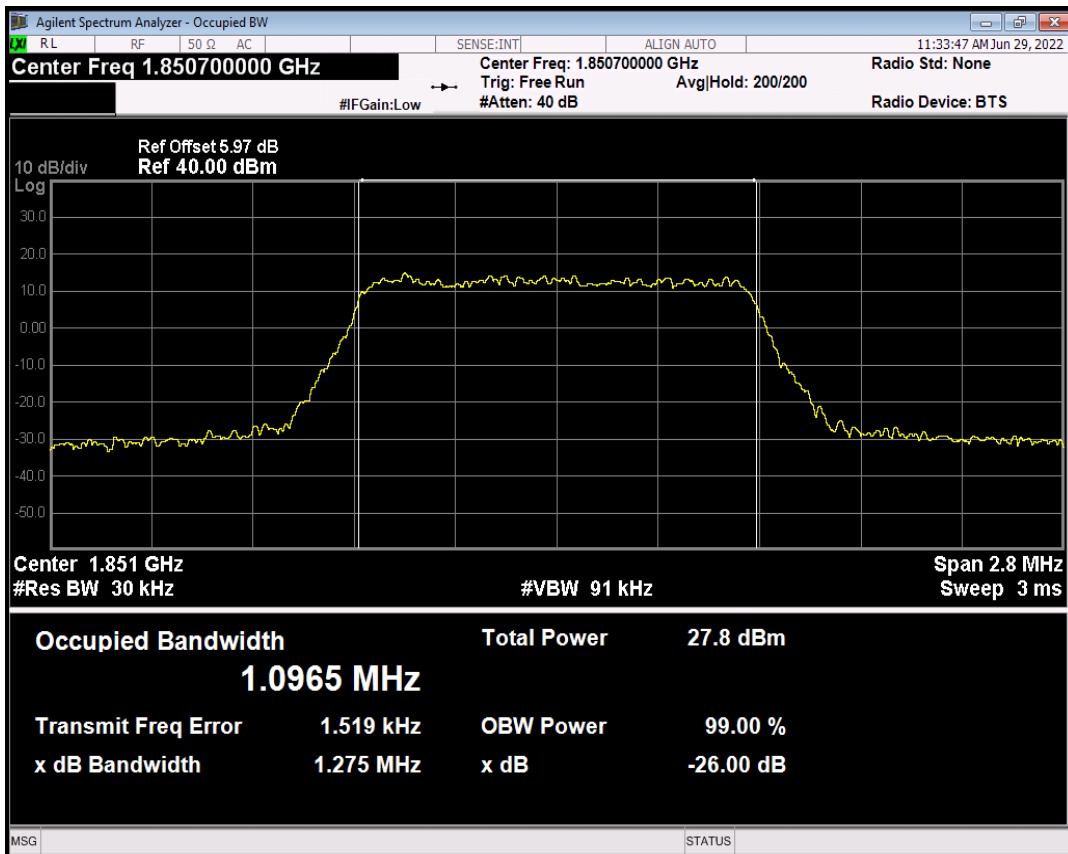
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band2	1.4	18607	6	#0	QPSK	1.100	1.281	PASS
Band2	1.4	18607	6	#0	QAM16	1.097	1.275	PASS
Band2	1.4	18900	6	#0	QPSK	1.098	1.293	PASS
Band2	1.4	18900	6	#0	QAM16	1.100	1.277	PASS
Band2	1.4	19193	6	#0	QPSK	1.095	1.279	PASS
Band2	1.4	19193	6	#0	QAM16	1.089	1.283	PASS
Band2	3	18615	15	#0	QPSK	2.705	3.005	PASS
Band2	3	18615	15	#0	QAM16	2.712	2.945	PASS
Band2	3	18900	15	#0	QPSK	2.710	2.988	PASS
Band2	3	18900	15	#0	QAM16	2.708	2.998	PASS
Band2	3	19185	15	#0	QPSK	2.710	3.005	PASS
Band2	3	19185	15	#0	QAM16	2.688	2.997	PASS
Band2	5	18625	25	#0	QPSK	4.523	4.973	PASS
Band2	5	18625	25	#0	QAM16	4.503	5.007	PASS
Band2	5	18900	25	#0	QPSK	4.515	4.952	PASS
Band2	5	18900	25	#0	QAM16	4.519	4.993	PASS
Band2	5	19175	25	#0	QPSK	4.508	4.949	PASS
Band2	5	19175	25	#0	QAM16	4.519	4.988	PASS
Band2	10	18650	50	#0	QPSK	8.969	9.736	PASS
Band2	10	18650	50	#0	QAM16	8.958	9.739	PASS
Band2	10	18900	50	#0	QPSK	8.967	9.907	PASS
Band2	10	18900	50	#0	QAM16	8.961	9.786	PASS
Band2	10	19150	50	#0	QPSK	8.921	9.702	PASS
Band2	10	19150	50	#0	QAM16	8.927	9.753	PASS
Band2	15	18675	75	#0	QPSK	13.384	14.476	PASS
Band2	15	18675	75	#0	QAM16	13.410	14.475	PASS
Band2	15	18900	75	#0	QPSK	13.413	14.490	PASS
Band2	15	18900	75	#0	QAM16	13.434	14.661	PASS
Band2	15	19125	75	#0	QPSK	13.385	14.504	PASS
Band2	15	19125	75	#0	QAM16	13.448	14.574	PASS
Band2	20	18700	100	#0	QPSK	17.916	19.174	PASS
Band2	20	18700	100	#0	QAM16	17.839	19.297	PASS
Band2	20	18900	100	#0	QPSK	17.859	19.290	PASS
Band2	20	18900	100	#0	QAM16	17.882	19.238	PASS
Band2	20	19100	100	#0	QPSK	17.878	19.339	PASS
Band2	20	19100	100	#0	QAM16	17.913	19.293	PASS



Band2 QPSK BW=1.4MHz Channel=18607 RB Size=6 Position=#0

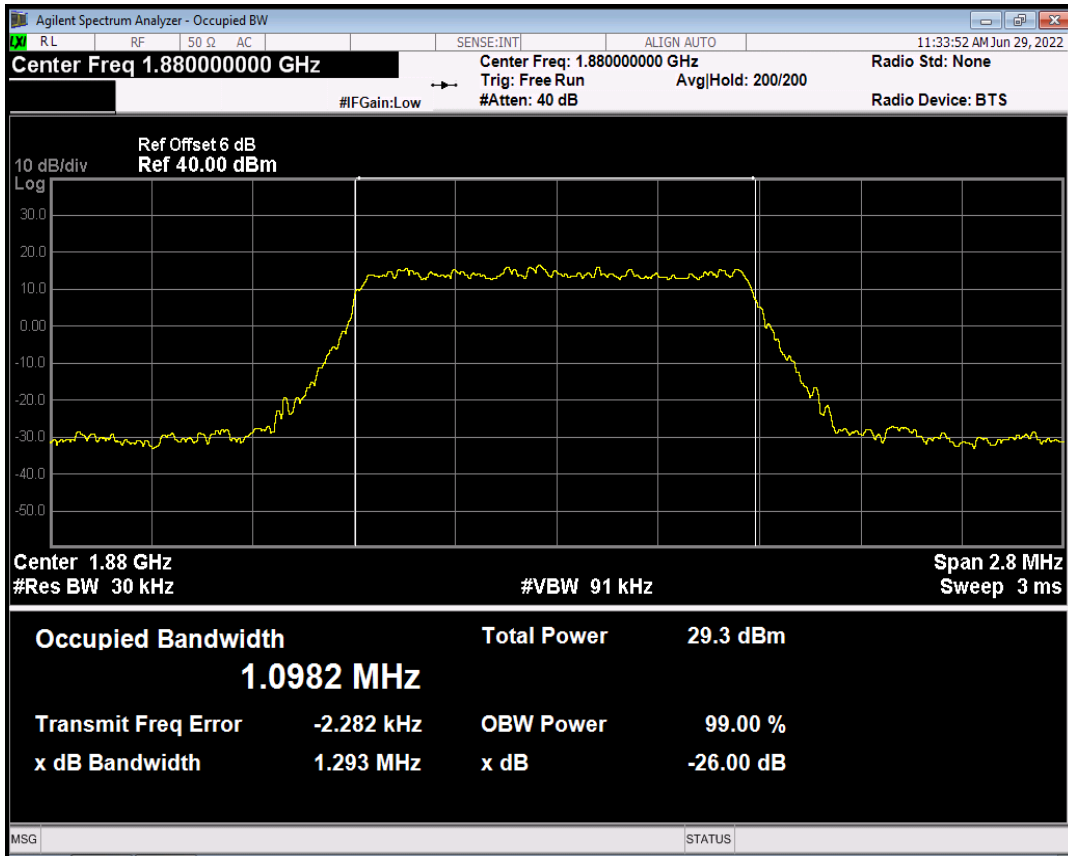


Band2 QAM16 BW=1.4MHz Channel=18607 RB Size=6 Position=#0

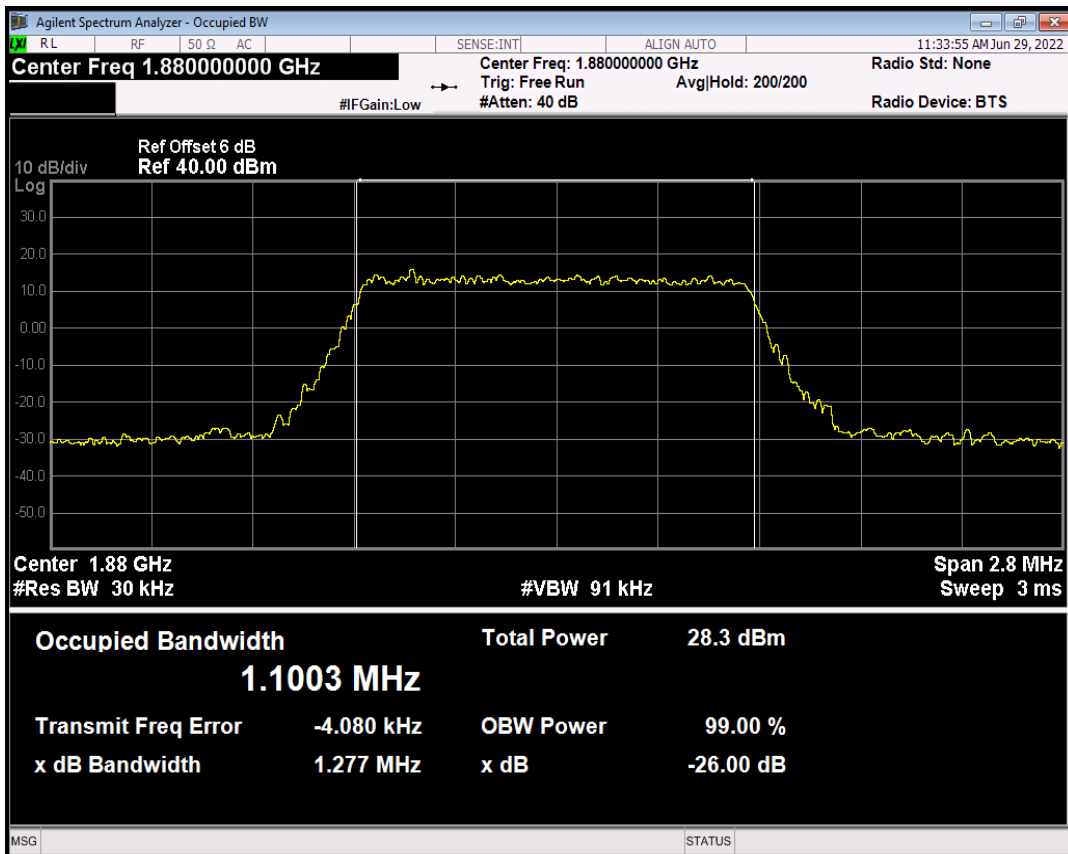




Band2 QPSK BW=1.4MHz Channel=18900 RB Size=6 Position=#0

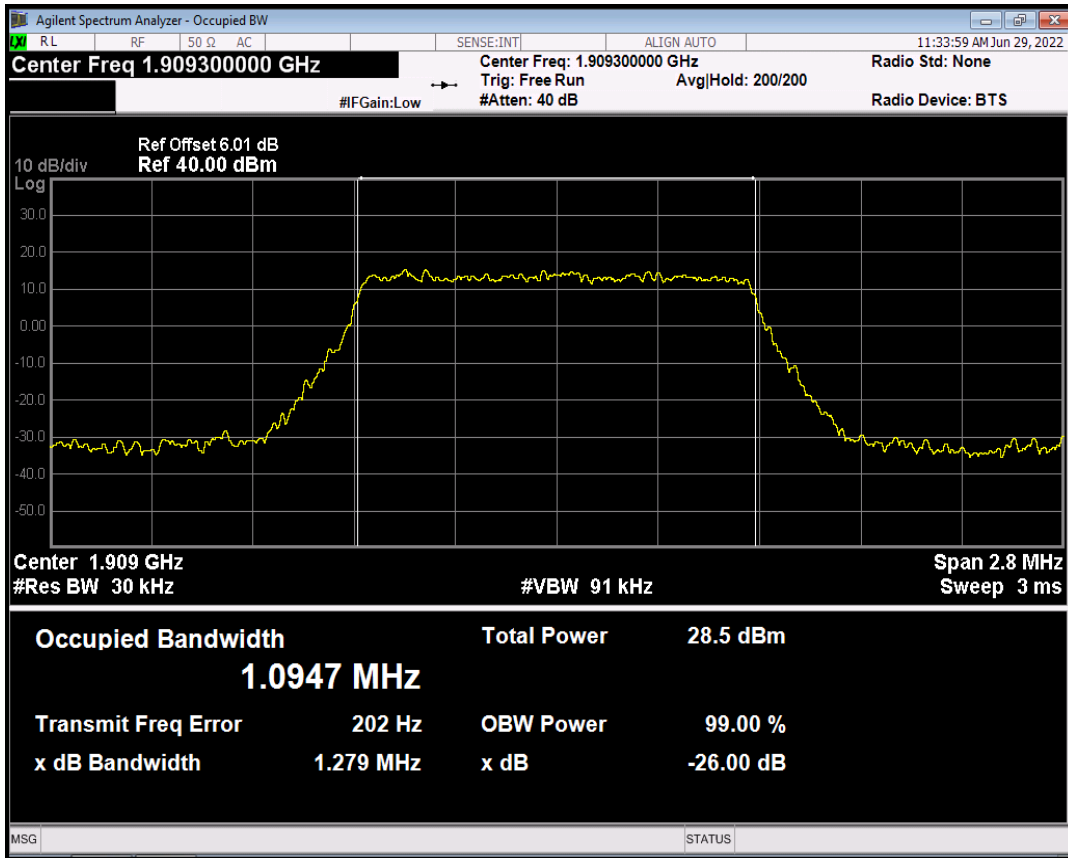


Band2 QAM16 BW=1.4MHz Channel=18900 RB Size=6 Position=#0

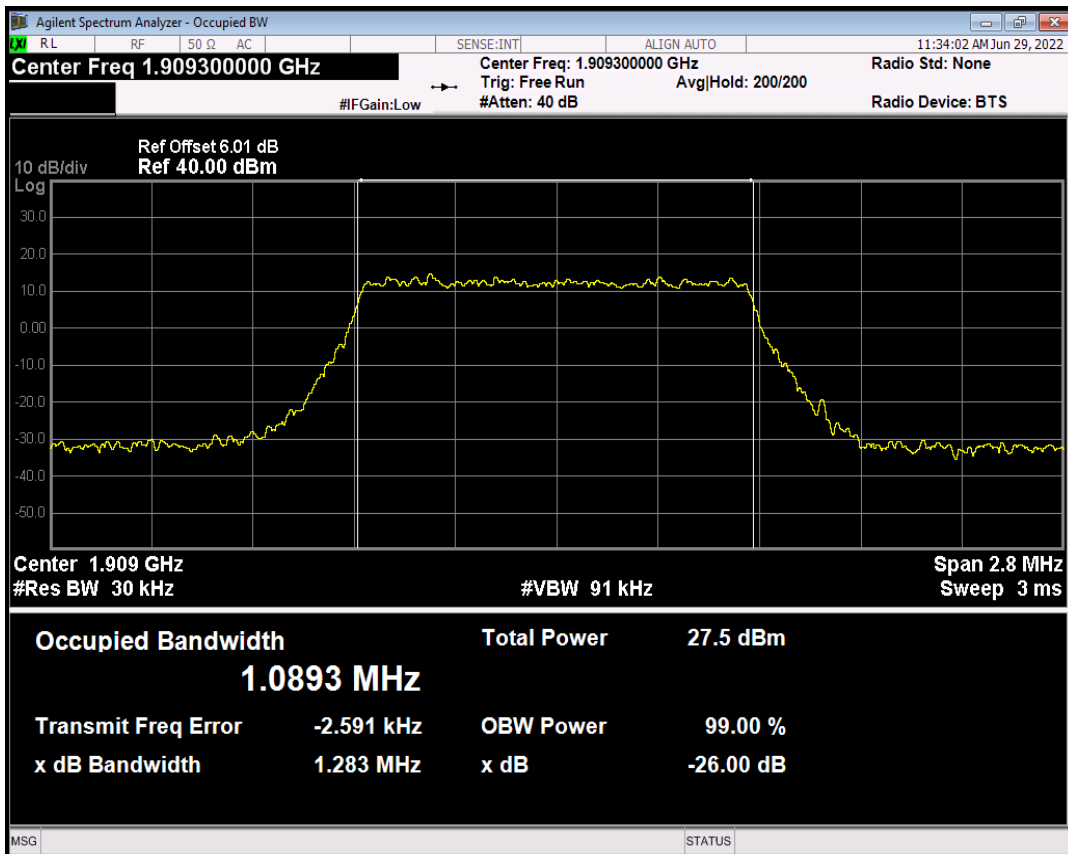




Band2 QPSK BW=1.4MHz Channel=19193 RB Size=6 Position=#0

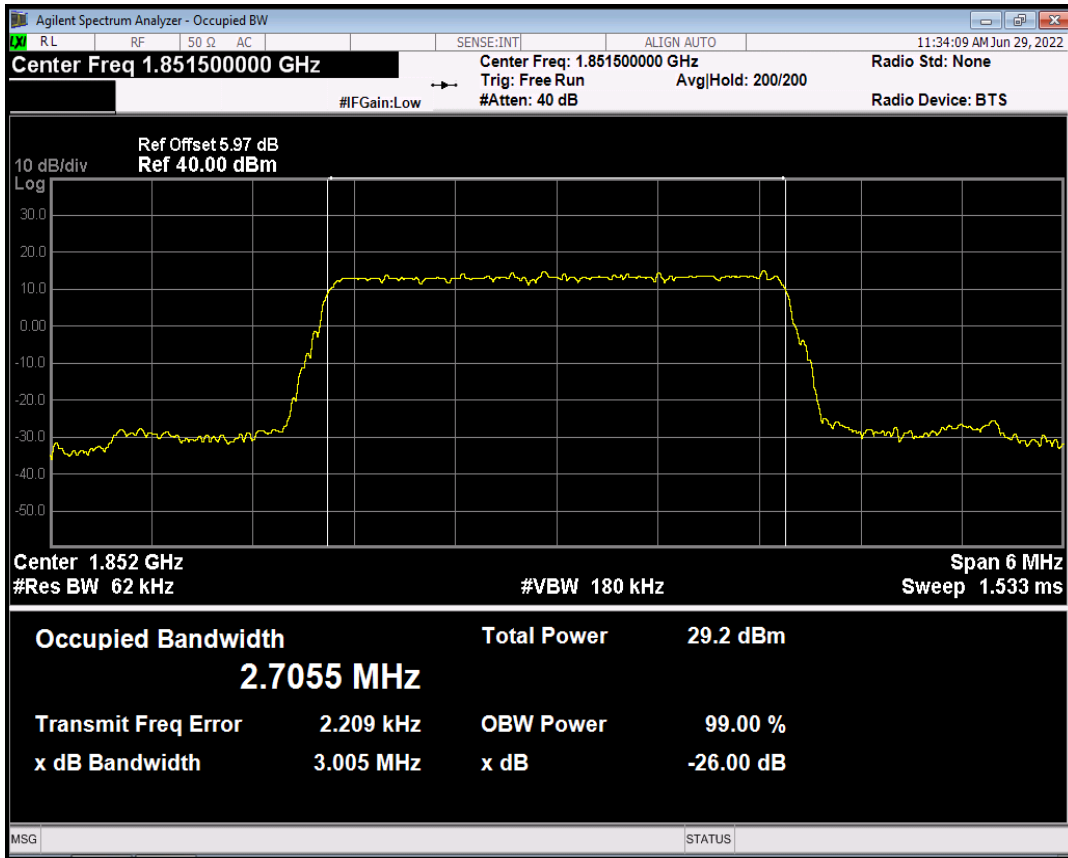


Band2 QAM16 BW=1.4MHz Channel=19193 RB Size=6 Position=#0

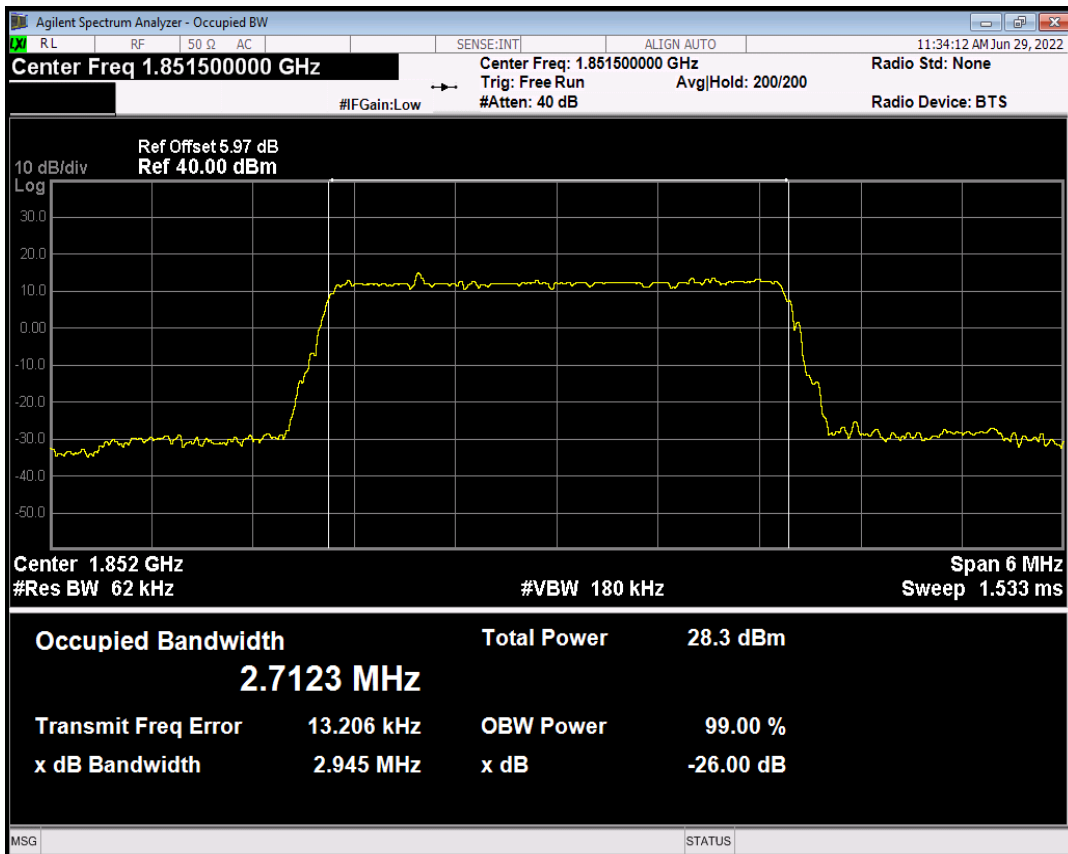




Band2 QPSK BW=3MHz Channel=18615 RB Size=15 Position=#0

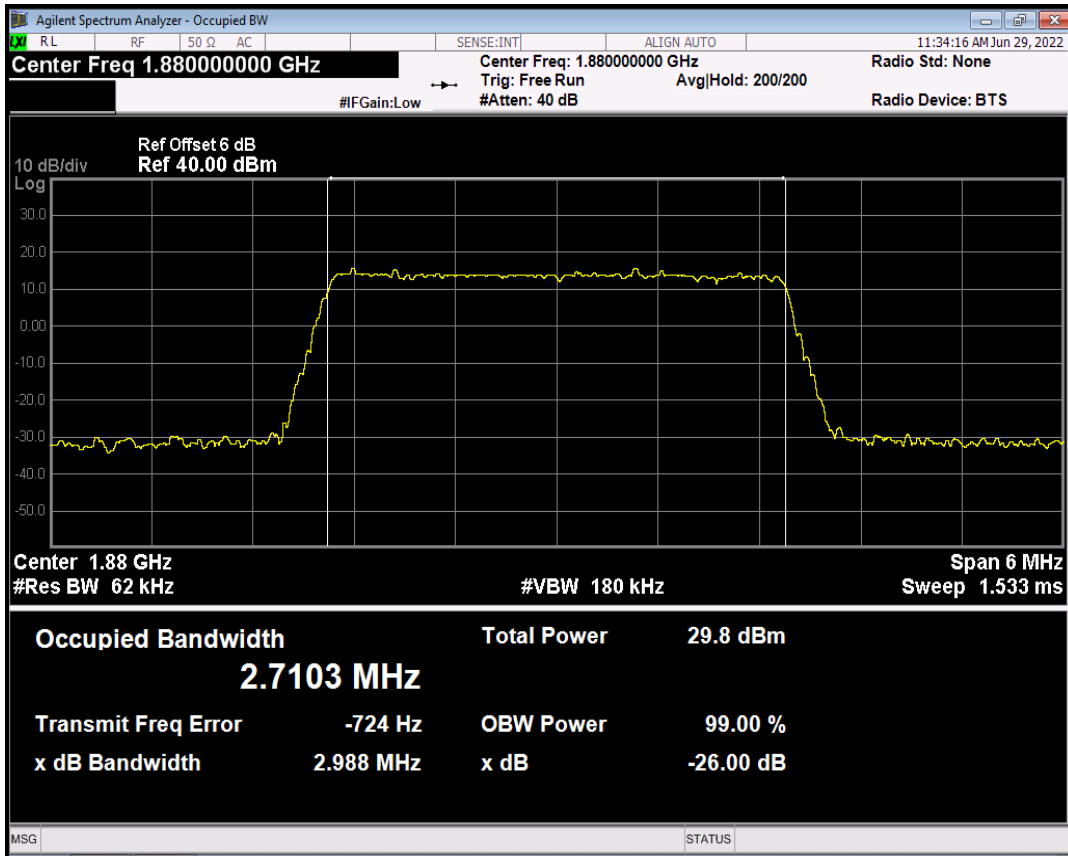


Band2 QAM16 BW=3MHz Channel=18615 RB Size=15 Position=#0

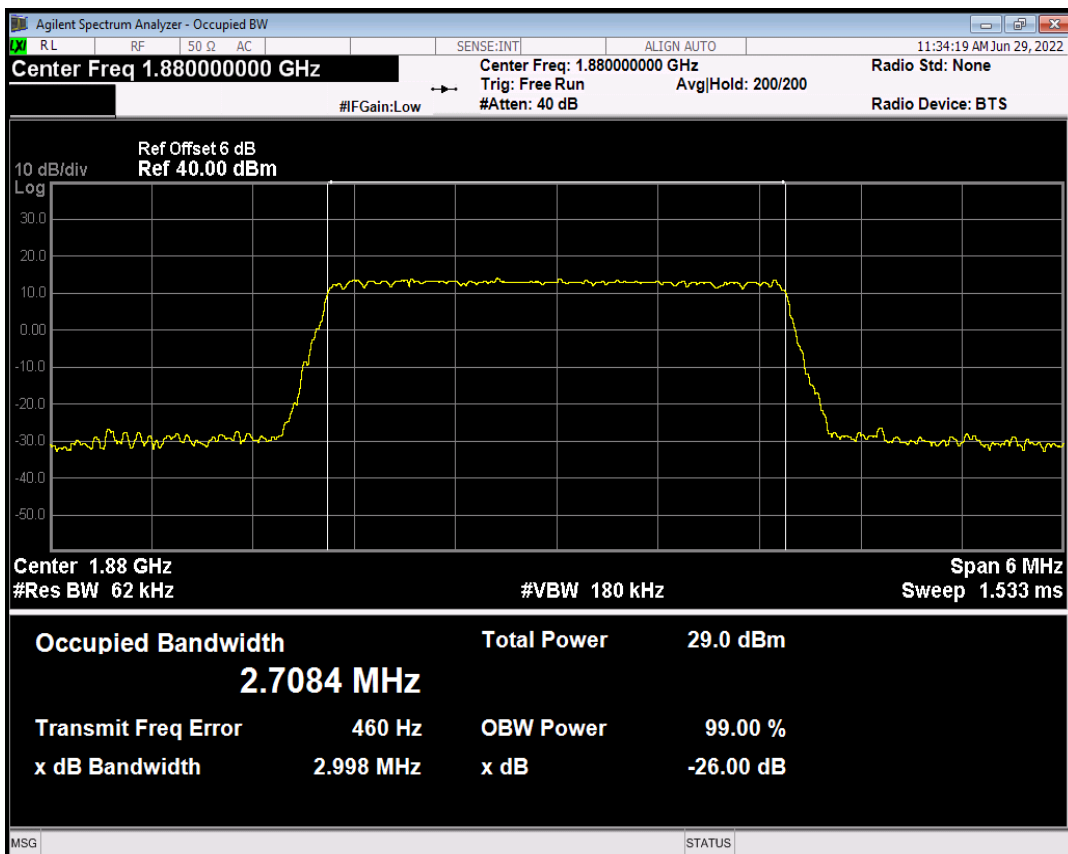




Band2 QPSK BW=3MHz Channel=18900 RB Size=15 Position=#0

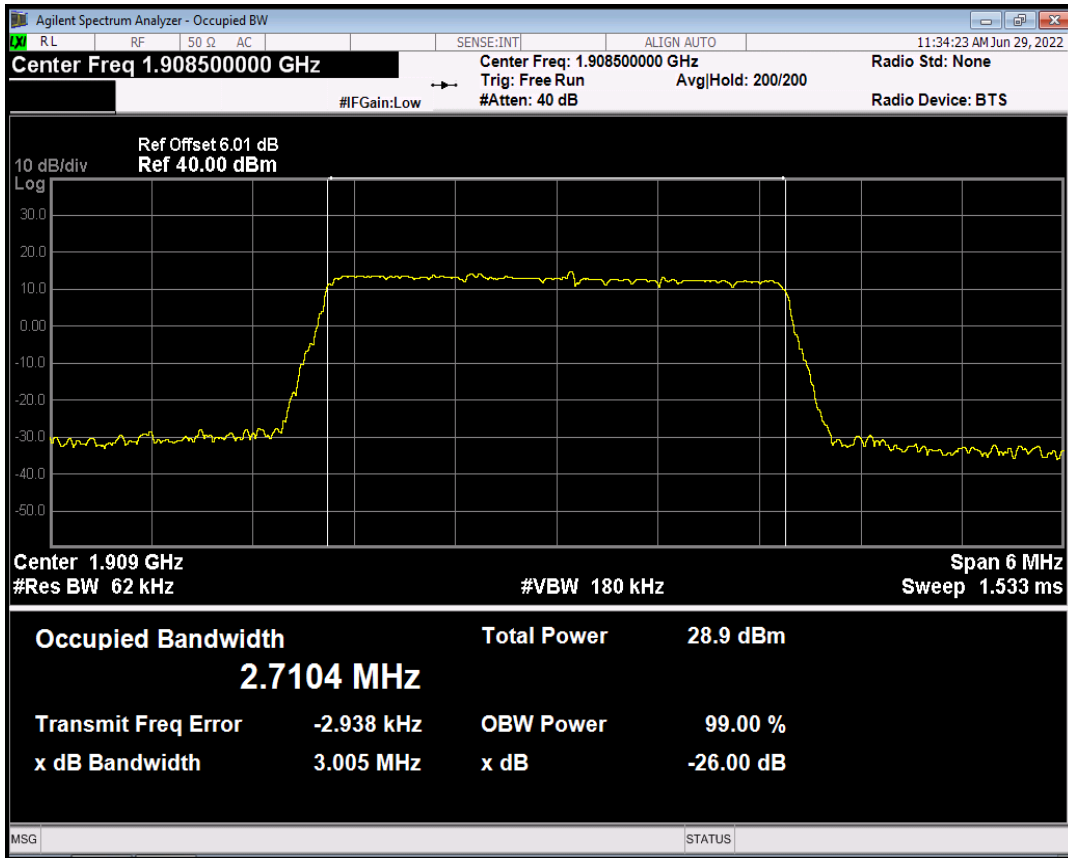


Band2 QAM16 BW=3MHz Channel=18900 RB Size=15 Position=#0

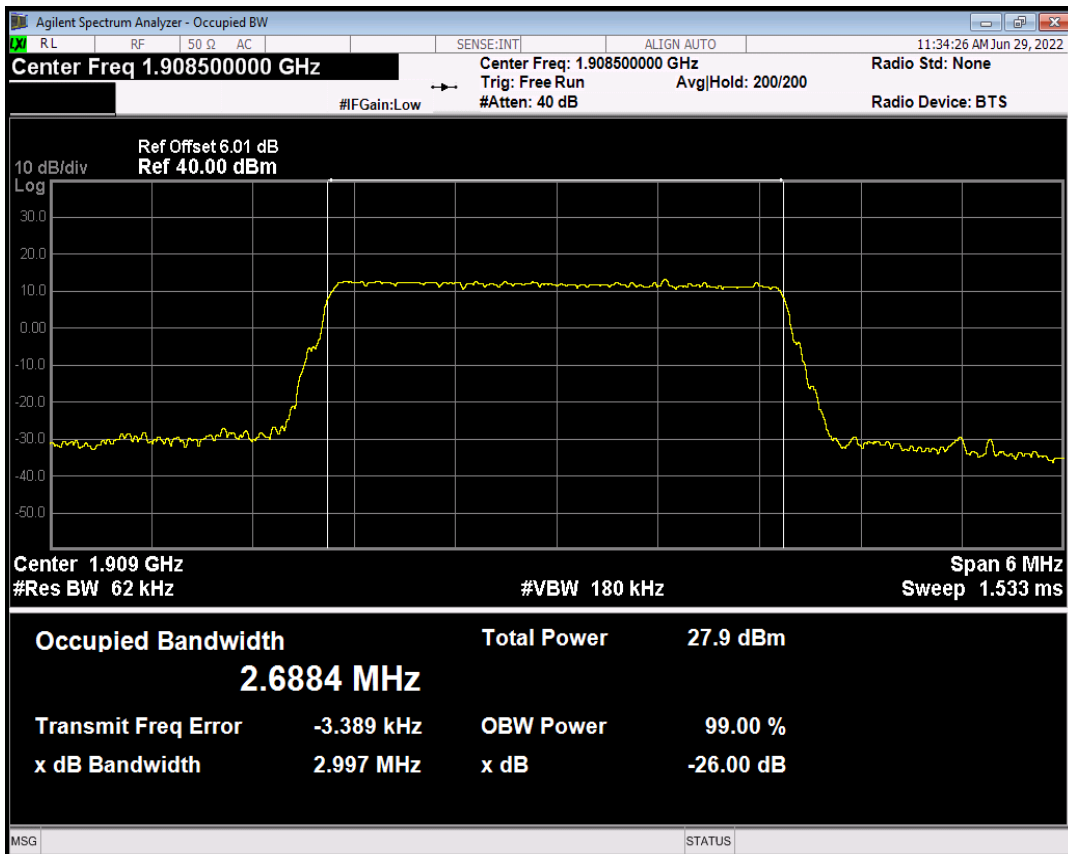




Band2 QPSK BW=3MHz Channel=19185 RB Size=15 Position=#0

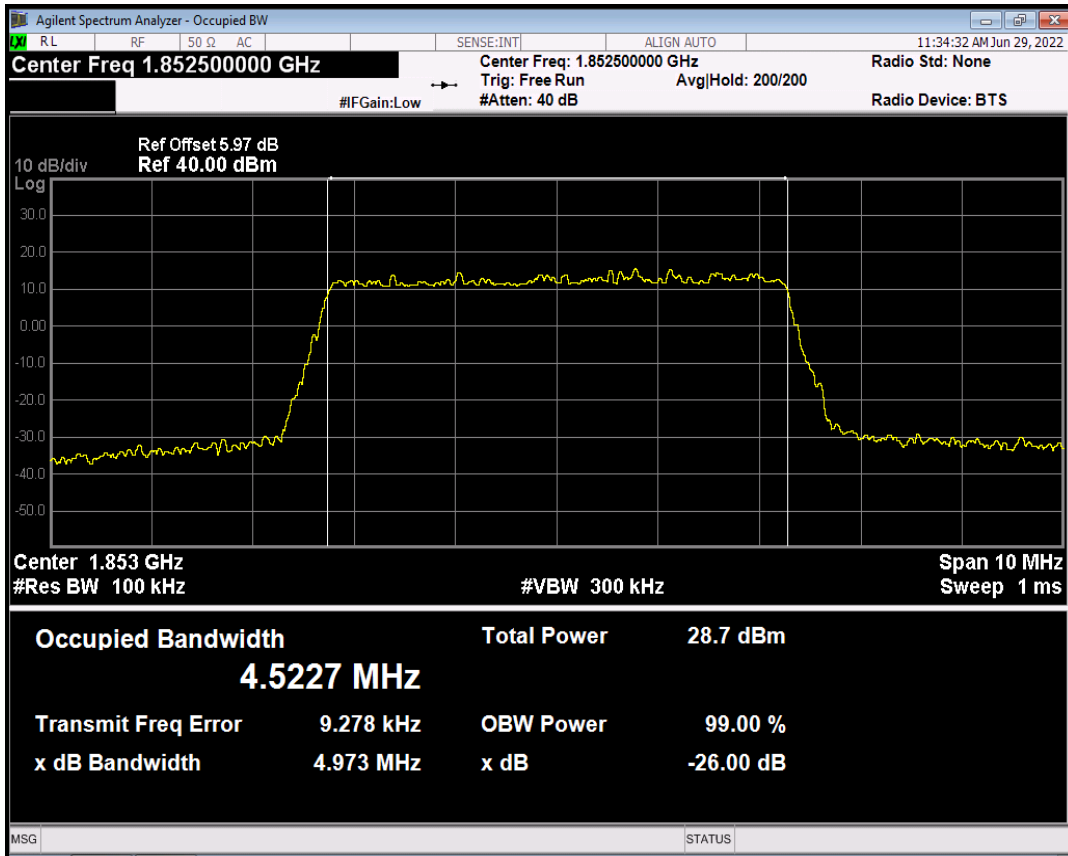


Band2 QAM16 BW=3MHz Channel=19185 RB Size=15 Position=#0

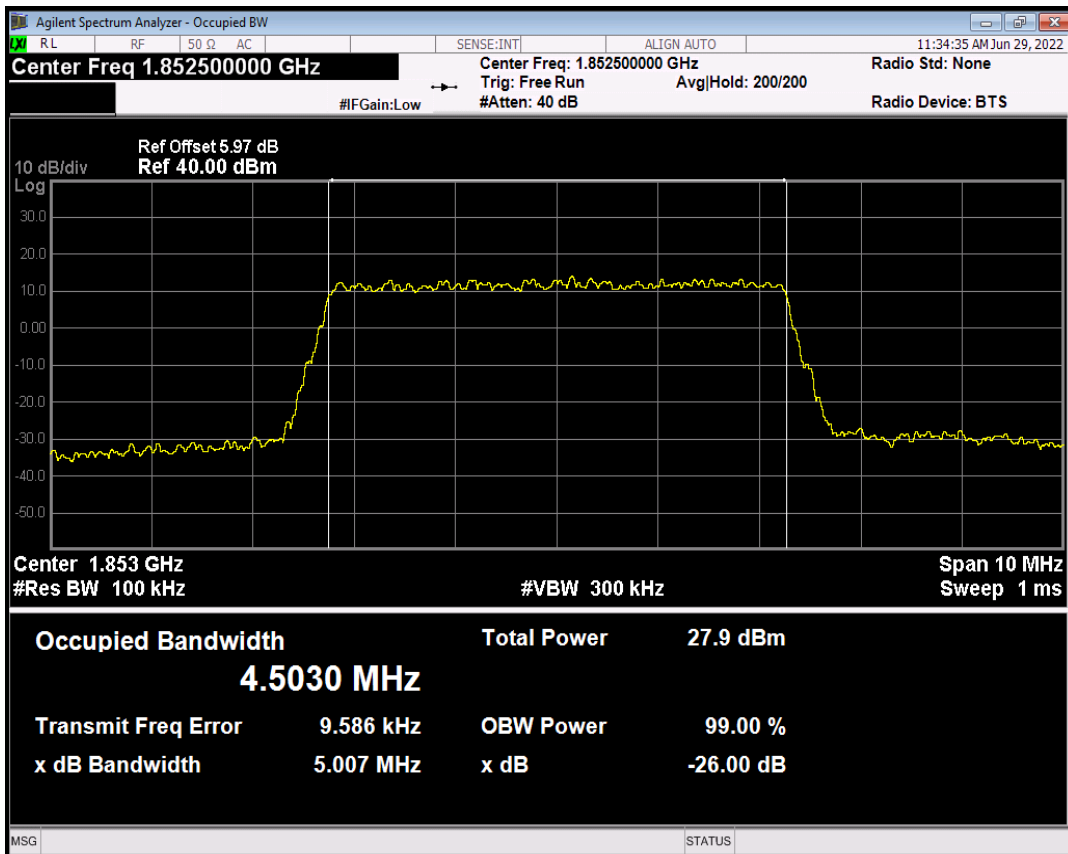




Band2 QPSK BW=5MHz Channel=18625 RB Size=25 Position=#0

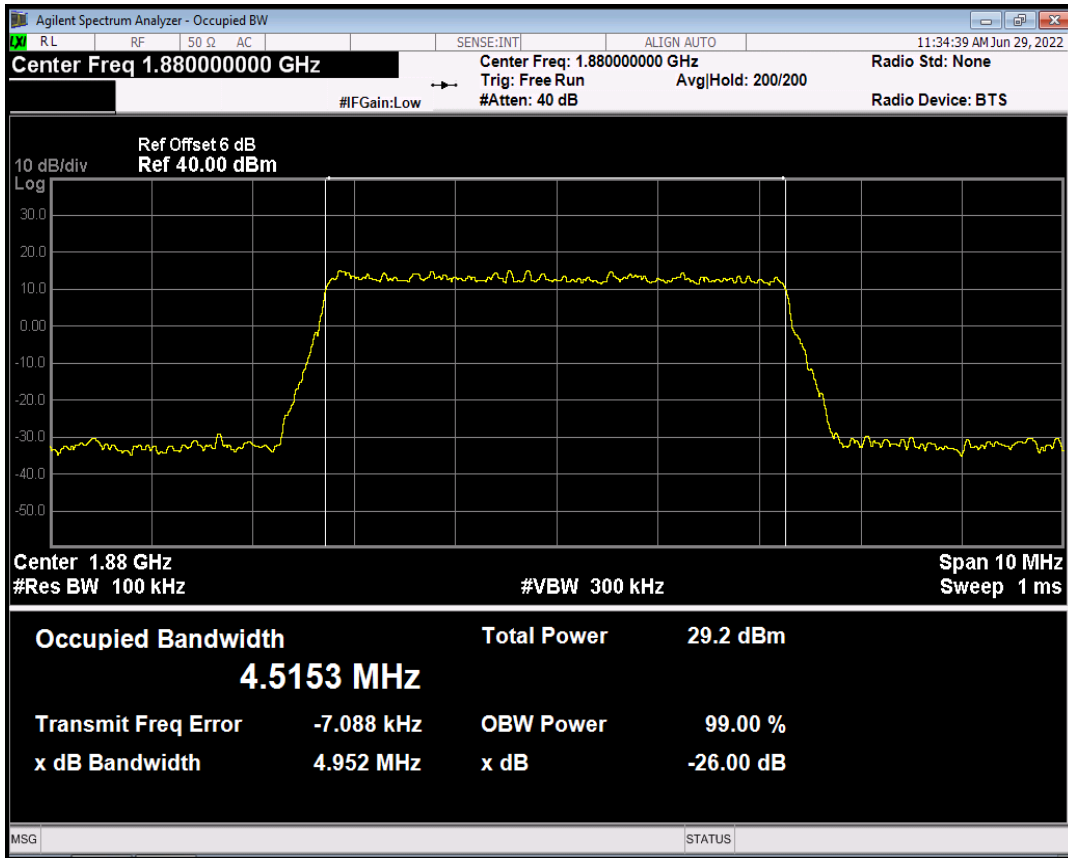


Band2 QAM16 BW=5MHz Channel=18625 RB Size=25 Position=#0





Band2 QPSK BW=5MHz Channel=18900 RB Size=25 Position=#0



Band2 QAM16 BW=5MHz Channel=18900 RB Size=25 Position=#0

