



### 6 Appendix

### LTE BAND48 (INCLUDING LTE BAND42/43)

### PEAK-TO-AVERAGE RATIO (CCDF)

### TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	4.05	13	PASS
Band48	5MHz	QPSK	55265	25RB#0	6.50	13	PASS
Band48	5MHz	QPSK	55990	1RB#0	3.97	13	PASS
Band48	5MHz	QPSK	55990	25RB#0	5.24	13	PASS
Band48	5MHz	QPSK	56715	1RB#0	3.82	13	PASS
Band48	5MHz	QPSK	56715	25RB#0	5.72	13	PASS
Band48	5MHz	16QAM	55265	1RB#0	6.12	13	PASS
Band48	5MHz	16QAM	55265	25RB#0	6.75	13	PASS
Band48	5MHz	16QAM	55990	1RB#0	5.88	13	PASS
Band48	5MHz	16QAM	55990	25RB#0	6.40	13	PASS
Band48	5MHz	16QAM	56715	1RB#0	5.38	13	PASS
Band48	5MHz	16QAM	56715	25RB#0	6.46	13	PASS
Band48	5MHz	64QAM	55265	1RB#0	6.40	13	PASS
Band48	5MHz	64QAM	55265	25RB#0	7.07	13	PASS
Band48	5MHz	64QAM	55990	1RB#0	7.74	13	PASS
Band48	5MHz	64QAM	55990	25RB#0	6.88	13	PASS
Band48	5MHz	64QAM	56715	1RB#0	6.79	13	PASS
Band48	5MHz	64QAM	56715	25RB#0	6.74	13	PASS
Band48	10MHz	QPSK	55290	1RB#0	3.82	13	PASS
Band48	10MHz	QPSK	55290	50RB#0	5.29	13	PASS
Band48	10MHz	QPSK	55990	1RB#0	3.76	13	PASS
Band48	10MHz	QPSK	55990	50RB#0	5.15	13	PASS
Band48	10MHz	QPSK	56690	1RB#0	3.55	13	PASS
Band48	10MHz	QPSK	56690	50RB#0	5.11	13	PASS
Band48	10MHz	16QAM	55290	1RB#0	6.39	13	PASS
Band48	10MHz	16QAM	55290	50RB#0	6.65	13	PASS
Band48	10MHz	16QAM	55990	1RB#0	5.78	13	PASS
Band48	10MHz	16QAM	55990	50RB#0	6.04	13	PASS
Band48	10MHz	16QAM	56690	1RB#0	5.04	13	PASS
Band48	10MHz	16QAM	56690	50RB#0	6.26	13	PASS
Band48	10MHz	64QAM	55290	1RB#0	6.81	13	PASS
Band48	10MHz	64QAM	55290	50RB#0	6.85	13	PASS
Band48	10MHz	64QAM	55990	1RB#0	6.94	13	PASS
Band48	10MHz	64QAM	55990	50RB#0	6.93	13	PASS
Band48	10MHz	64QAM	56690	1RB#0	7.41	13	PASS
Band48	10MHz	64QAM	56690	50RB#0	6.90	13	PASS
Band48	15MHz	QPSK	55315	1RB#0	4.30	13	PASS
Band48	15MHz	QPSK	55315	75RB#0	5.53	13	PASS
Band48	15MHz	QPSK	55990	1RB#0	3.99	13	PASS
Band48	15MHz	QPSK	55990	75RB#0	5.42	13	PASS
Band48	15MHz	QPSK	56665	1RB#0	4.05	13	PASS
Band48	15MHz	QPSK	56665	75RB#0	5.29	13	PASS



**BUREAU  
VERITAS**

**Test Report No.: W7L-P23030016RF10**

Band48	15MHz	16QAM	55315	1RB#0	5.82	13	PASS
Band48	15MHz	16QAM	55315	75RB#0	6.26	13	PASS
Band48	15MHz	16QAM	55990	1RB#0	5.60	13	PASS
Band48	15MHz	16QAM	55990	75RB#0	7.64	13	PASS
Band48	15MHz	16QAM	56665	1RB#0	5.58	13	PASS
Band48	15MHz	16QAM	56665	75RB#0	6.20	13	PASS
Band48	15MHz	64QAM	55315	1RB#0	7.16	13	PASS
Band48	15MHz	64QAM	55315	75RB#0	7.13	13	PASS
Band48	15MHz	64QAM	55990	1RB#0	6.79	13	PASS
Band48	15MHz	64QAM	55990	75RB#0	6.91	13	PASS
Band48	15MHz	64QAM	56665	1RB#0	6.80	13	PASS
Band48	15MHz	64QAM	56665	75RB#0	6.86	13	PASS
Band48	20MHz	QPSK	55340	1RB#0	3.66	13	PASS
Band48	20MHz	QPSK	55340	100RB#0	5.29	13	PASS
Band48	20MHz	QPSK	55990	1RB#0	3.79	13	PASS
Band48	20MHz	QPSK	55990	100RB#0	5.13	13	PASS
Band48	20MHz	QPSK	56640	1RB#0	4.01	13	PASS
Band48	20MHz	QPSK	56640	100RB#0	5.08	13	PASS
Band48	20MHz	16QAM	55340	1RB#0	5.50	13	PASS
Band48	20MHz	16QAM	55340	100RB#0	6.10	13	PASS
Band48	20MHz	16QAM	55990	1RB#0	5.62	13	PASS
Band48	20MHz	16QAM	55990	100RB#0	6.02	13	PASS
Band48	20MHz	16QAM	56640	1RB#0	5.69	13	PASS
Band48	20MHz	16QAM	56640	100RB#0	6.00	13	PASS
Band48	20MHz	64QAM	55340	1RB#0	7.42	13	PASS
Band48	20MHz	64QAM	55340	100RB#0	6.78	13	PASS
Band48	20MHz	64QAM	55990	1RB#0	6.73	13	PASS
Band48	20MHz	64QAM	55990	100RB#0	6.75	13	PASS
Band48	20MHz	64QAM	56640	1RB#0	6.81	13	PASS
Band48	20MHz	64QAM	56640	100RB#0	6.83	13	PASS

BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

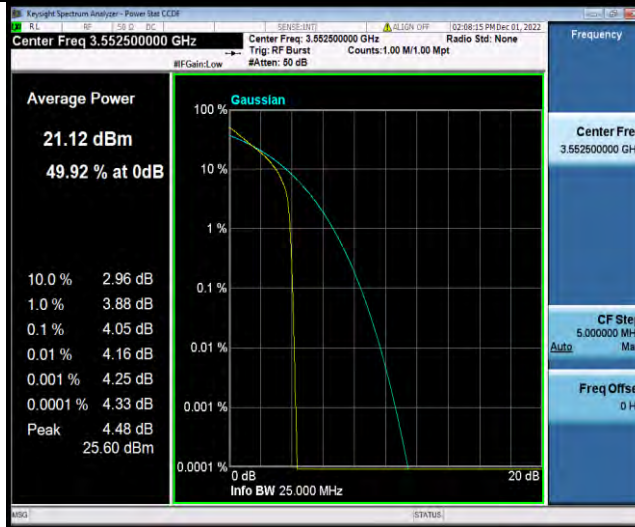
No.B102, Dazu Chuangxin Mansion, North of Beihuan  
Avenue, North Area, Hi-Tech Industrial Park, Nanshan  
District, Shenzhen, Guangdong, China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)

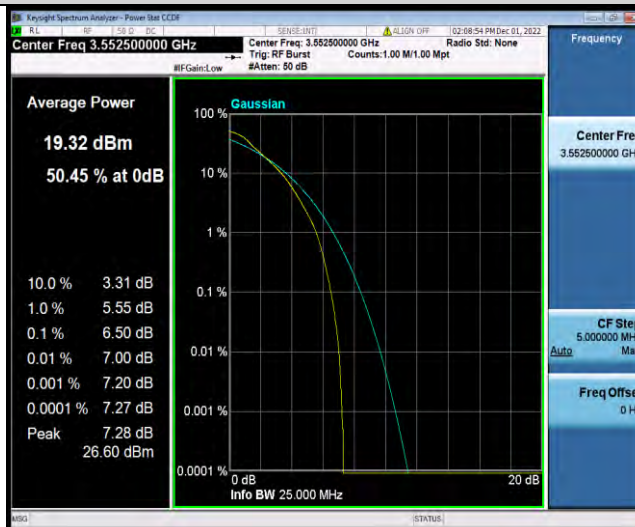


### TEST GRAPHS

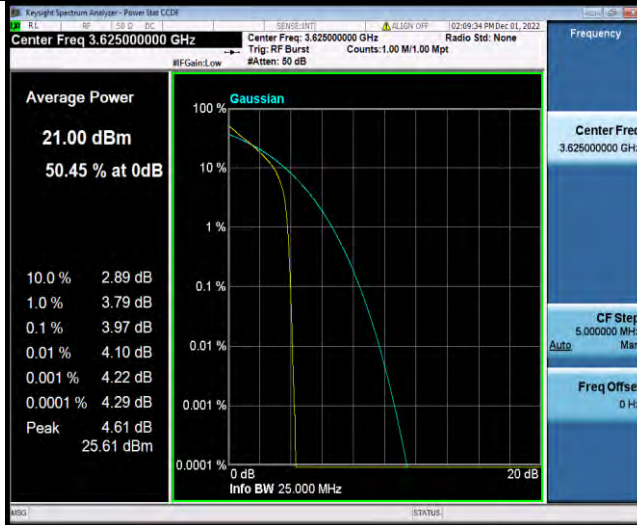
Band48-5MHz-QPSK-55265-1RB#0



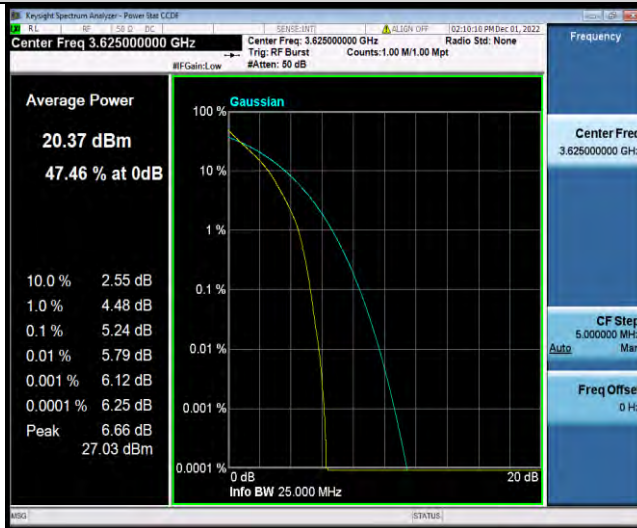
Band48-5MHz-QPSK-55265-25RB#0



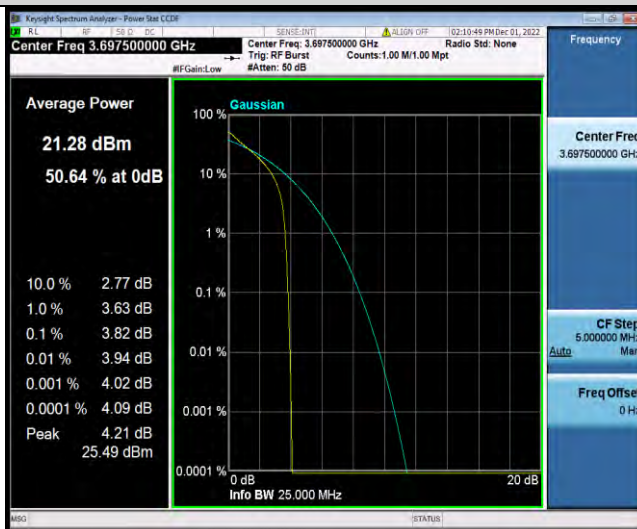
Band48-5MHz-QPSK-55990-1RB#0



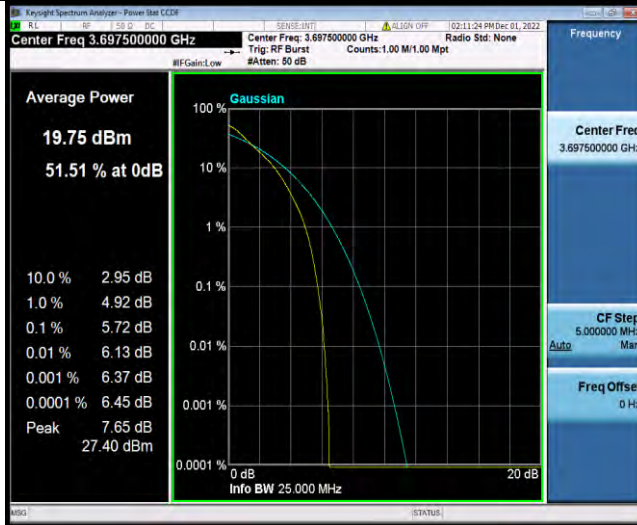
Band48-5MHz-QPSK-55990-25RB#0



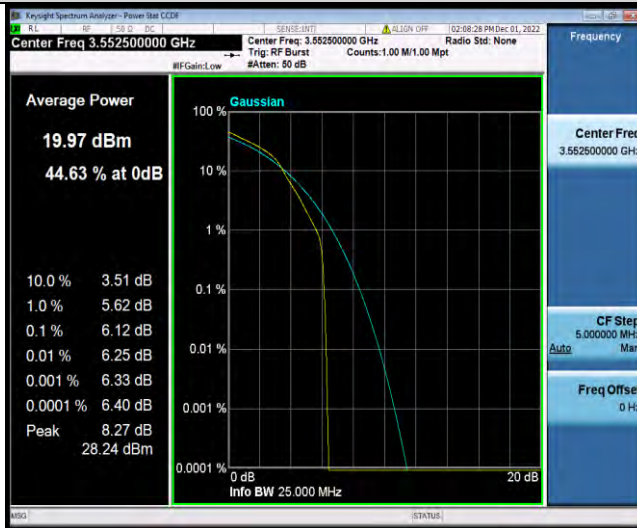
Band48-5MHz-QPSK-56715-1RB#0



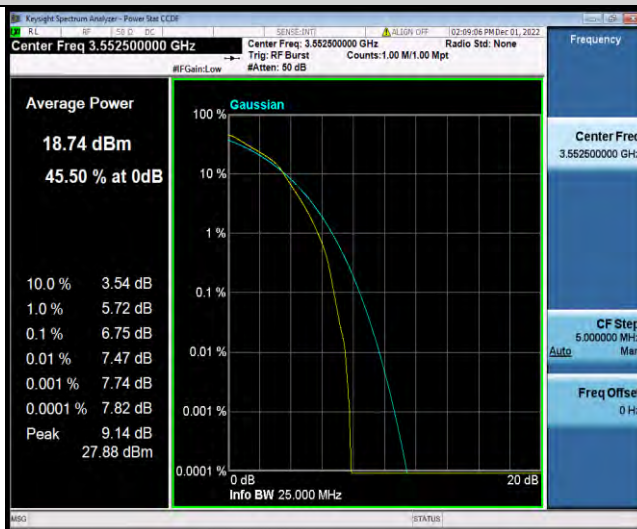
Band48-5MHz-QPSK-56715-25RB#0



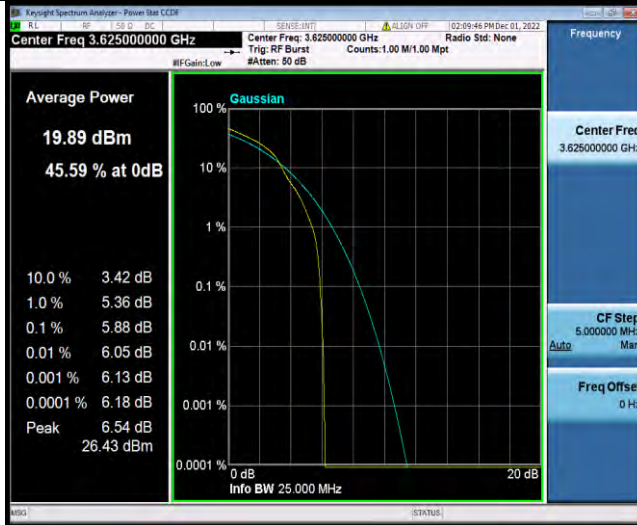
Band48-5MHz-16QAM-55265-1RB#0



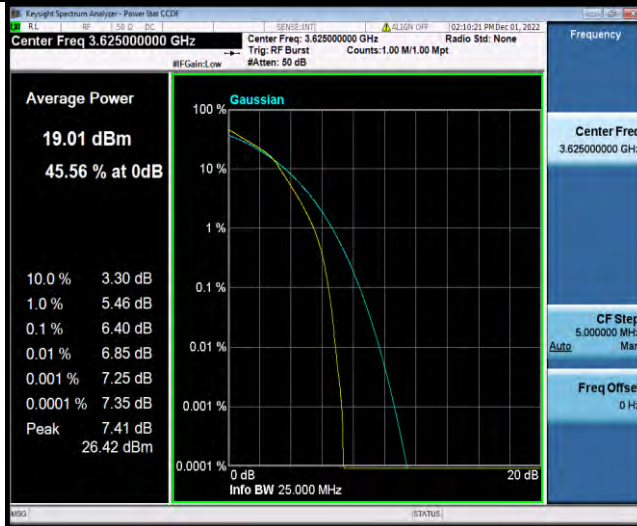
Band48-5MHz-16QAM-55265-25RB#0



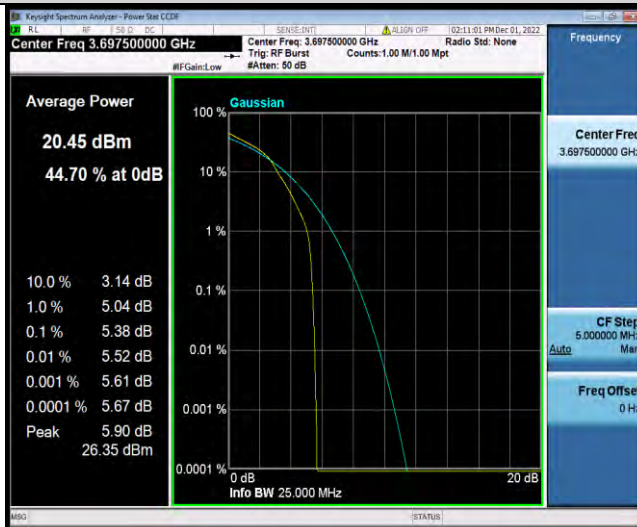
Band48-5MHz-16QAM-55990-1RB#0



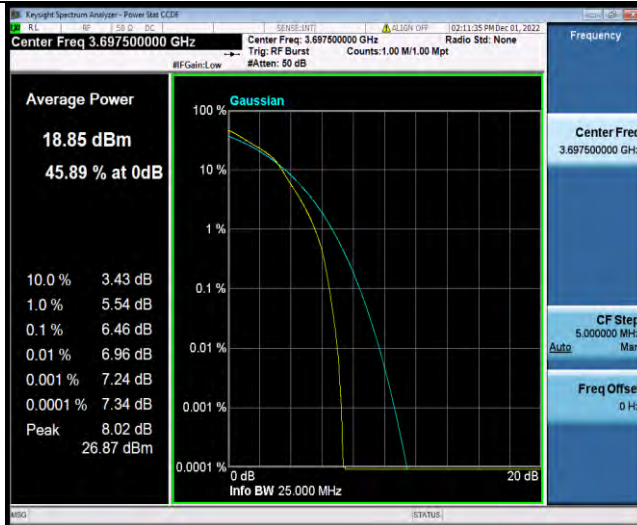
Band48-5MHz-16QAM-55990-25RB#0



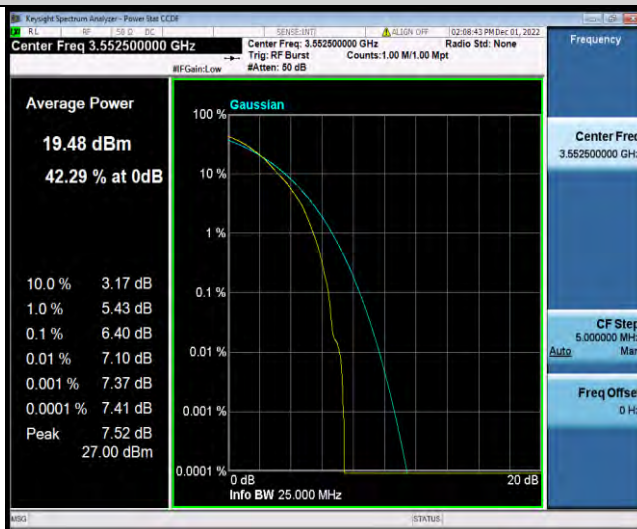
Band48-5MHz-16QAM-56175-1RB#0



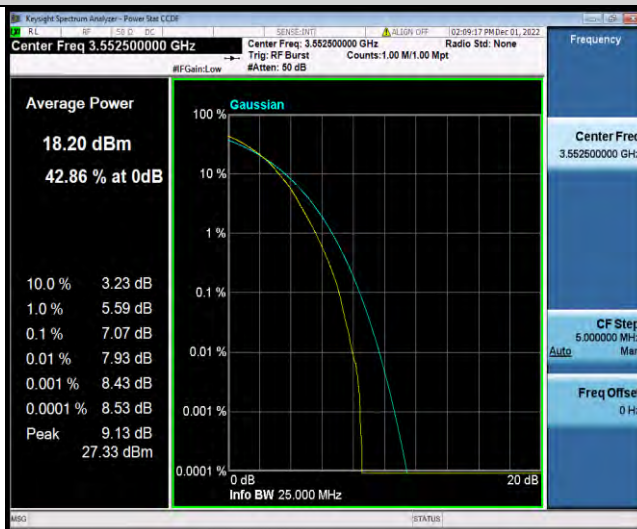
Band48-5MHz-16QAM-56715-25RB#0



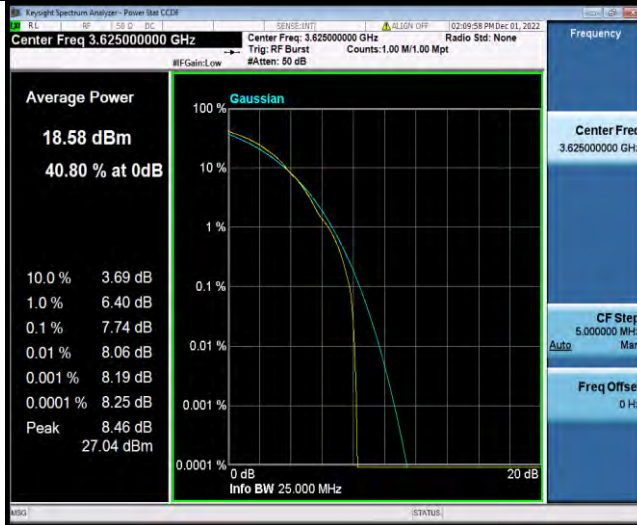
Band48-5MHz-64QAM-55265-1RB#0



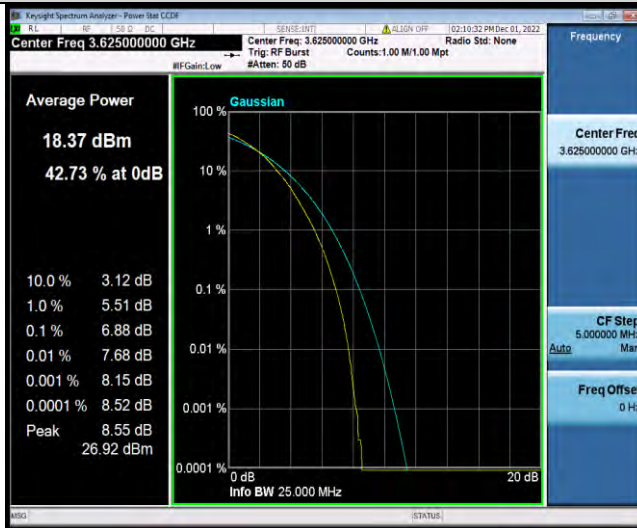
Band48-5MHz-64QAM-55265-25RB#0



Band48-5MHz-64QAM-55990-1RB#0



Band48-5MHz-64QAM-55990-25RB#0

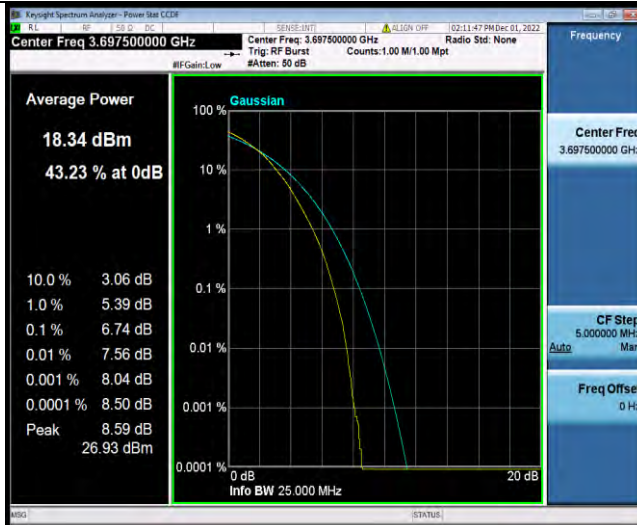


Band48-5MHz-64QAM-56715-1RB#0

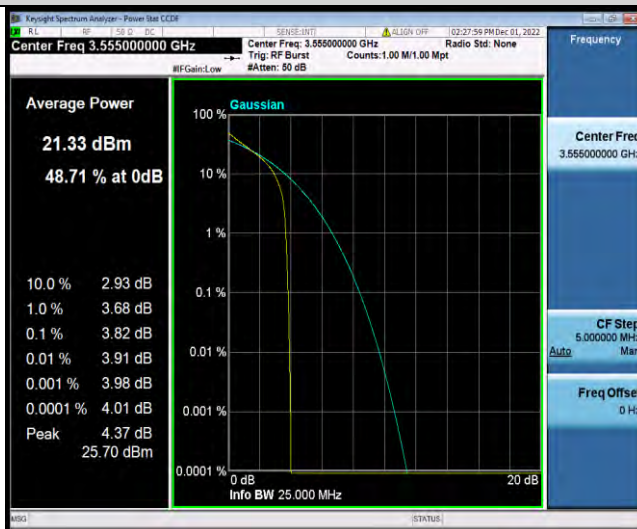


Band48-5MHz-64QAM-56715-25RB#0

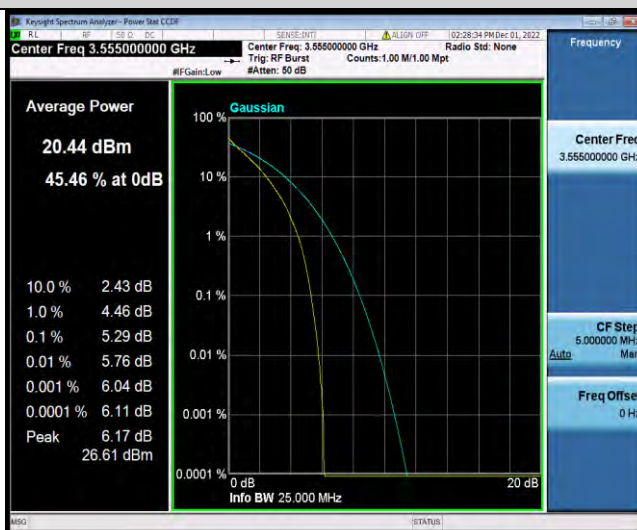




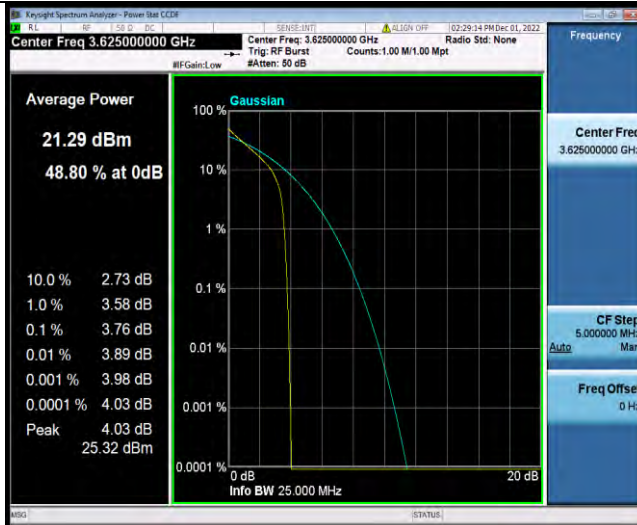
Band48-10MHz-QPSK-55290-1RB#0



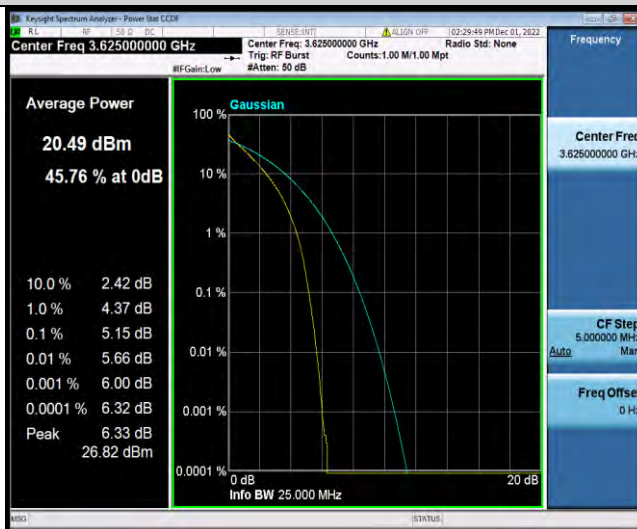
Band48-10MHz-QPSK-55290-50RB#0



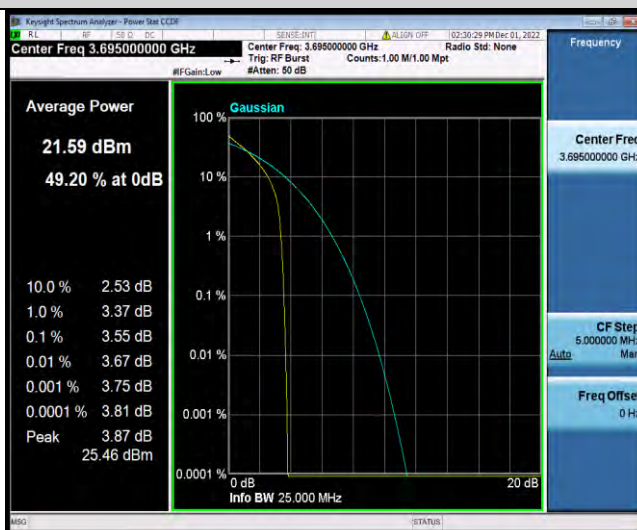
Band48-10MHz-QPSK-55990-1RB#0



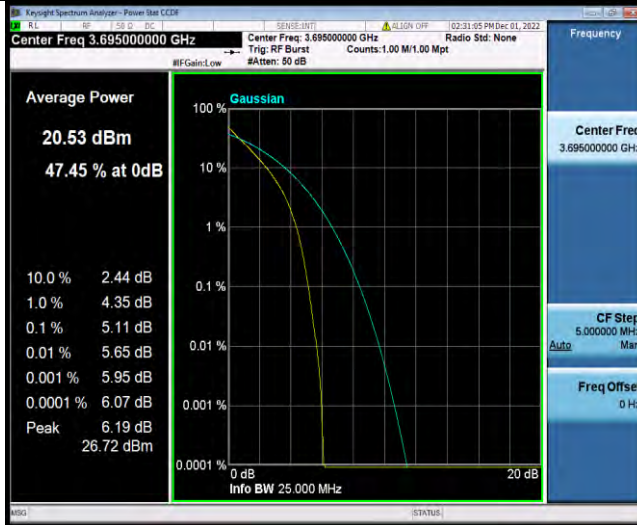
Band48-10MHz-QPSK-55990-50RB#0



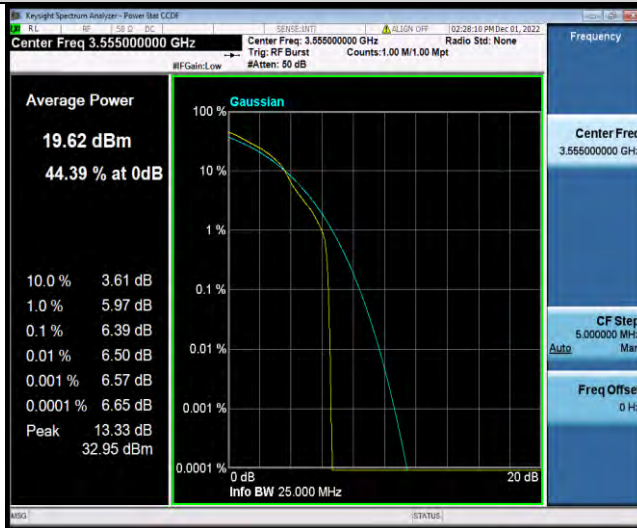
Band48-10MHz-QPSK-56690-1RB#0



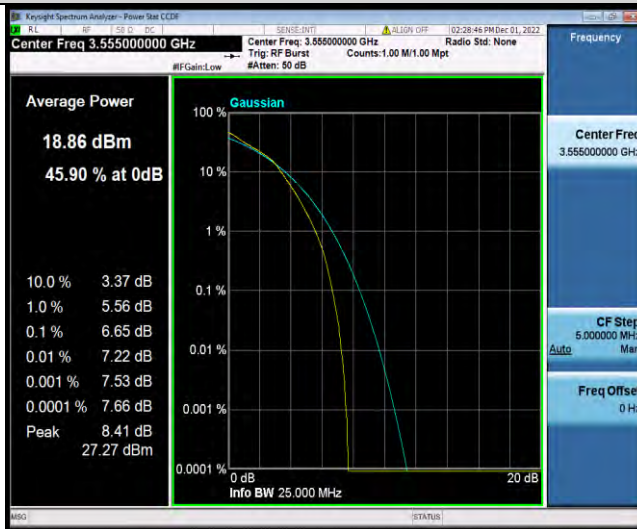
Band48-10MHz-QPSK-56690-50RB#0



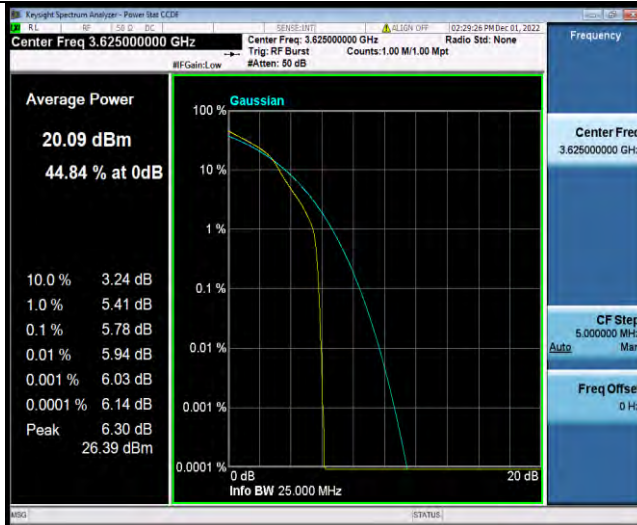
Band48-10MHz-16QAM-55290-1RB#0



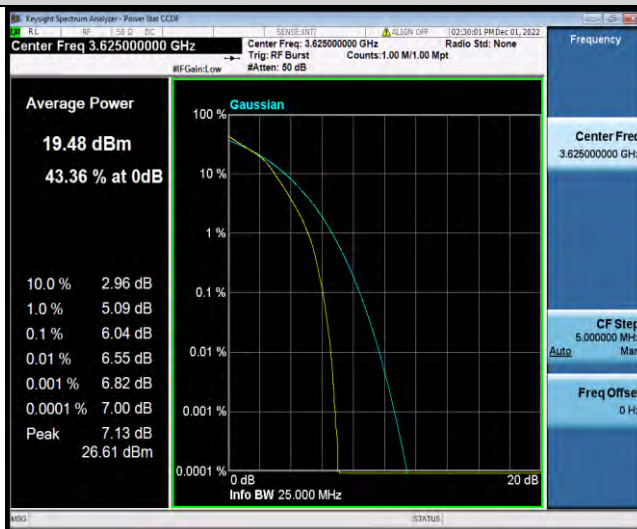
Band48-10MHz-16QAM-55290-50RB#0



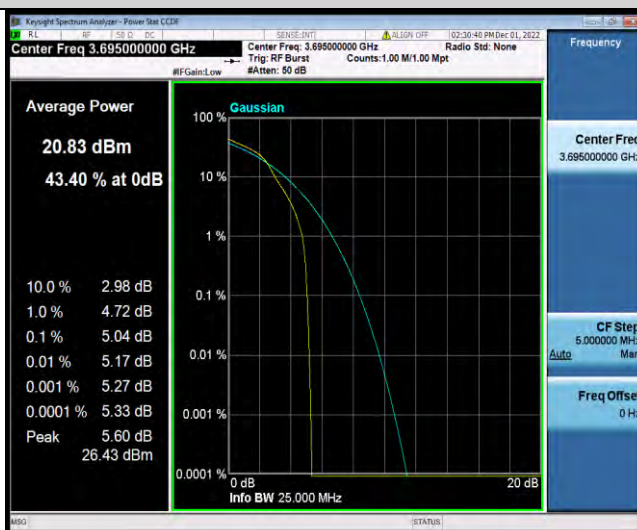
Band48-10MHz-16QAM-55990-1RB#0



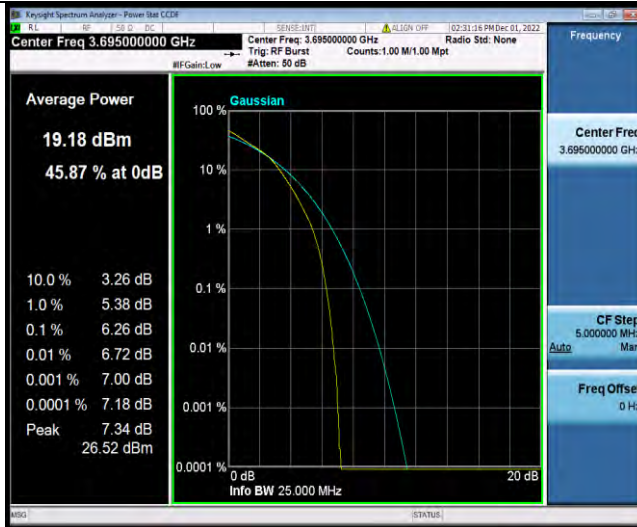
Band48-10MHz-16QAM-55990-50RB#0



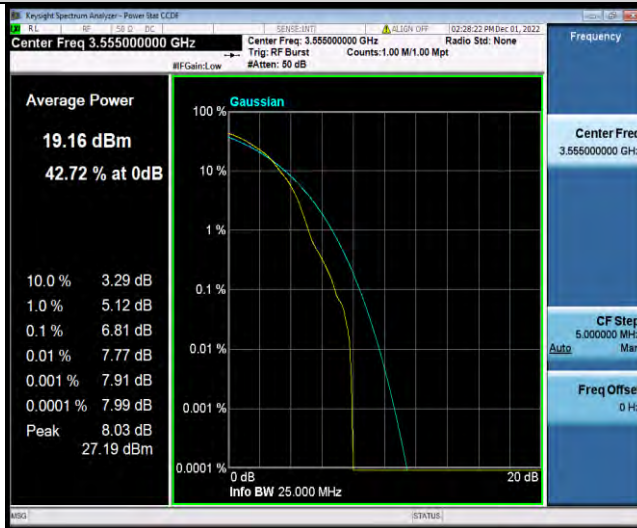
Band48-10MHz-16QAM-56690-1RB#0



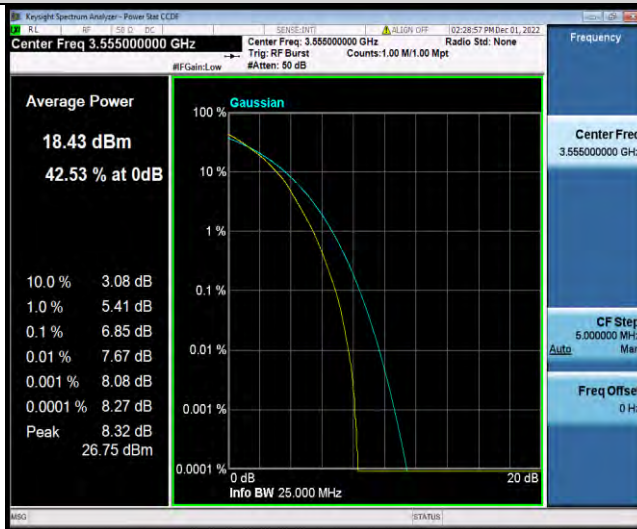
Band48-10MHz-16QAM-56690-50RB#0



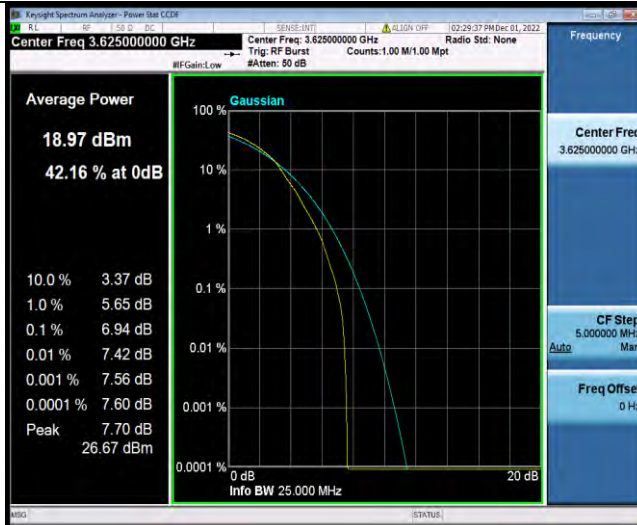
Band48-10MHz-64QAM-55290-1RB#0



Band48-10MHz-64QAM-55290-50RB#0



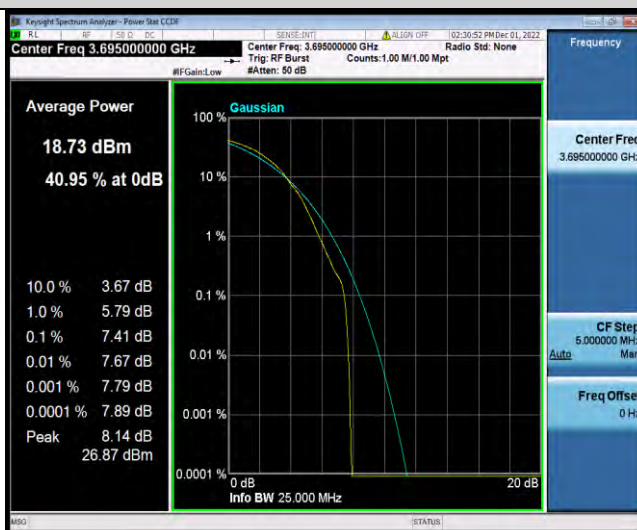
Band48-10MHz-64QAM-55990-1RB#0



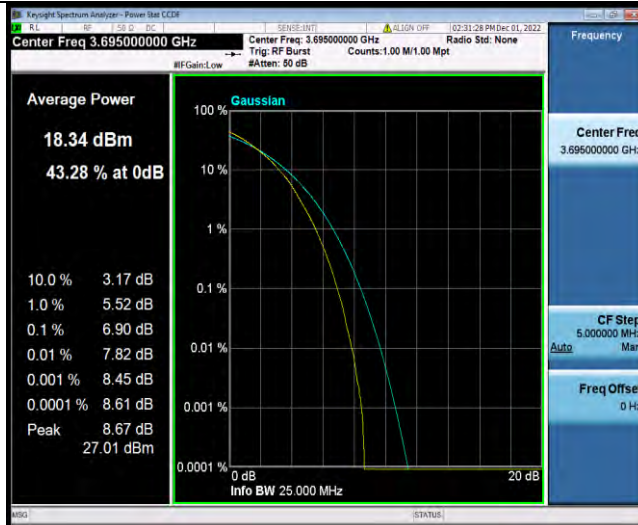
Band48-10MHz-64QAM-55990-50RB#0



Band48-10MHz-64QAM-56690-1RB#0



Band48-10MHz-64QAM-56690-50RB#0



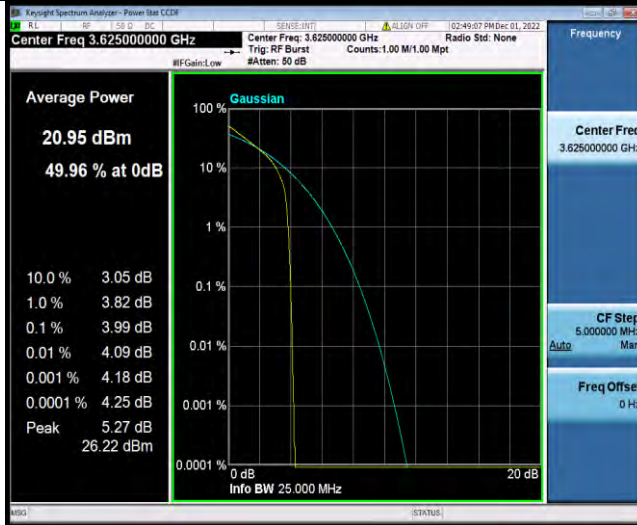
Band48-15MHz-QPSK-55315-1RB#0



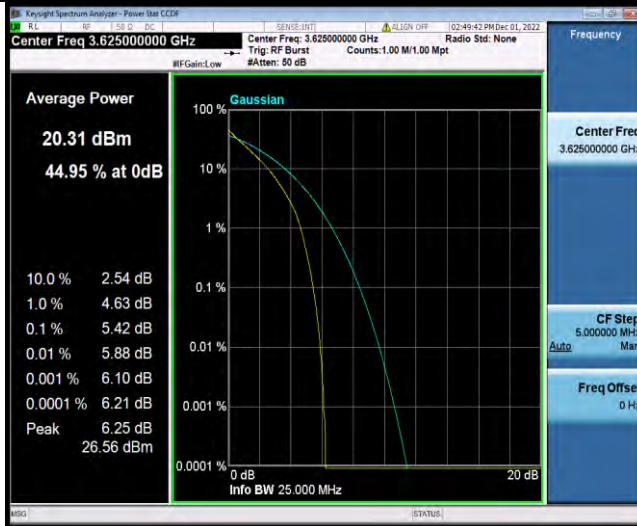
Band48-15MHz-QPSK-55315-75RB#0



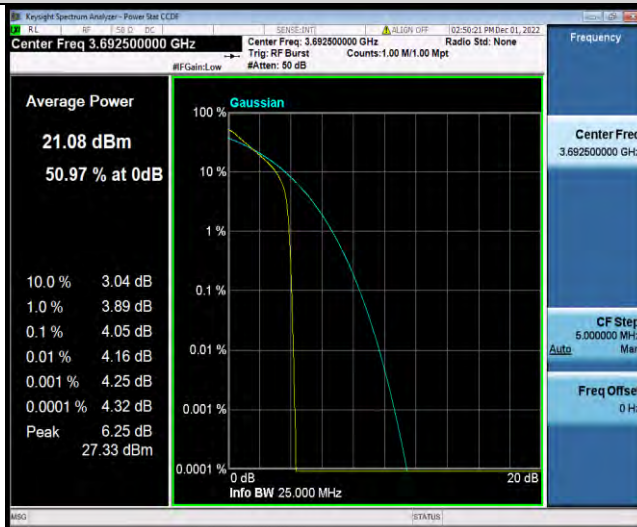
Band48-15MHz-QPSK-55990-1RB#0



Band48-15MHz-QPSK-55990-75RB#0

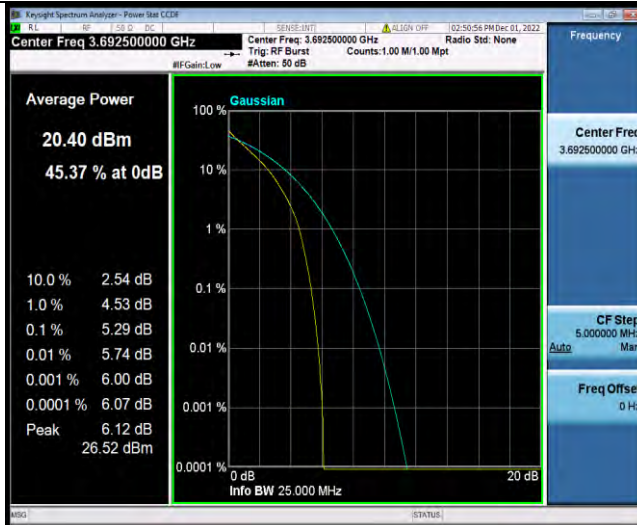


Band48-15MHz-QPSK-56665-1RB#0

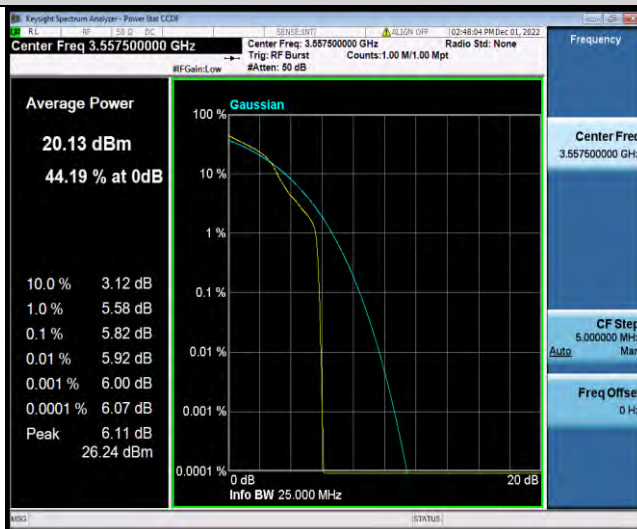


Band48-15MHz-QPSK-56665-75RB#0

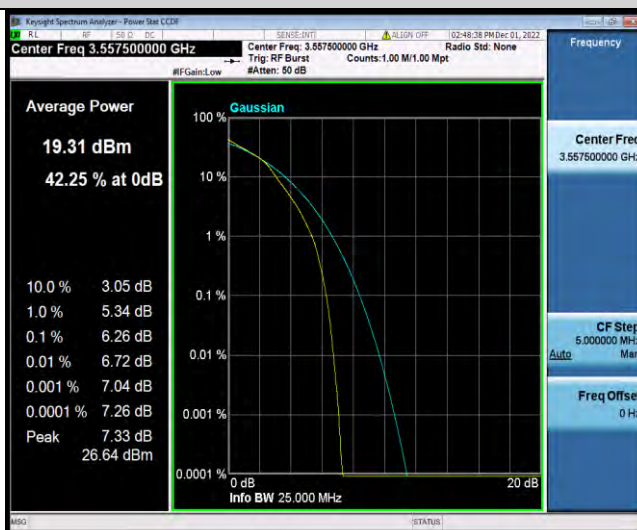




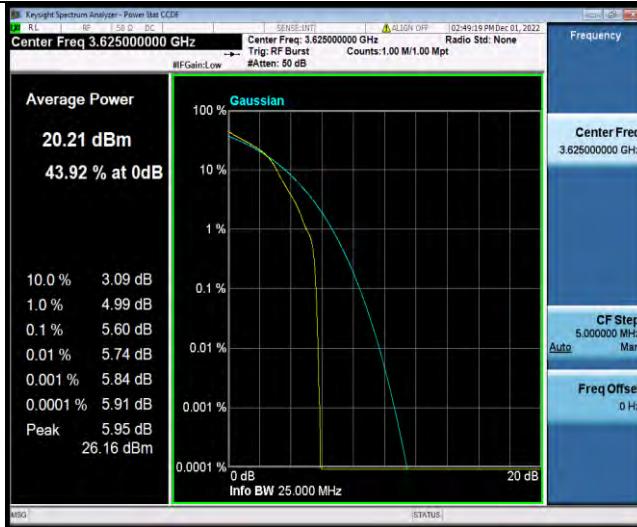
Band48-15MHz-16QAM-55315-1RB#0



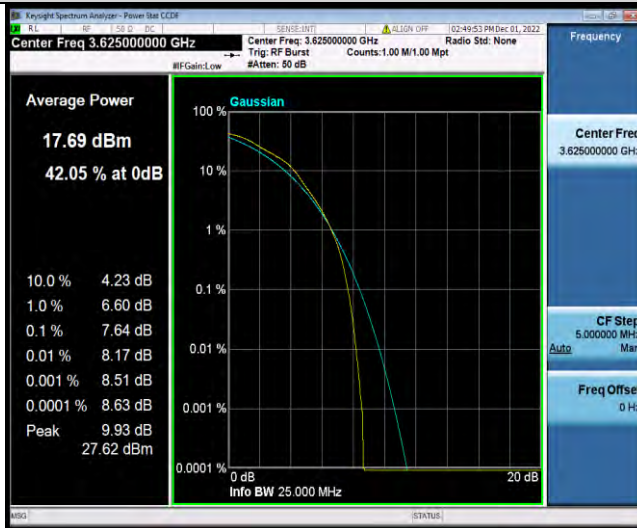
Band48-15MHz-16QAM-55315-75RB#0



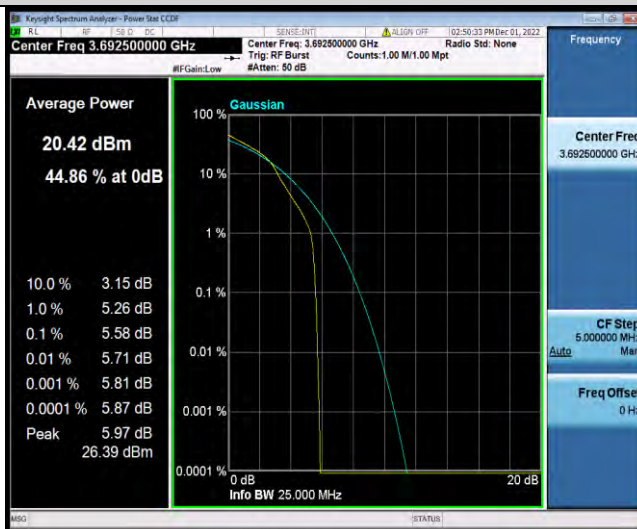
Band48-15MHz-16QAM-55990-1RB#0



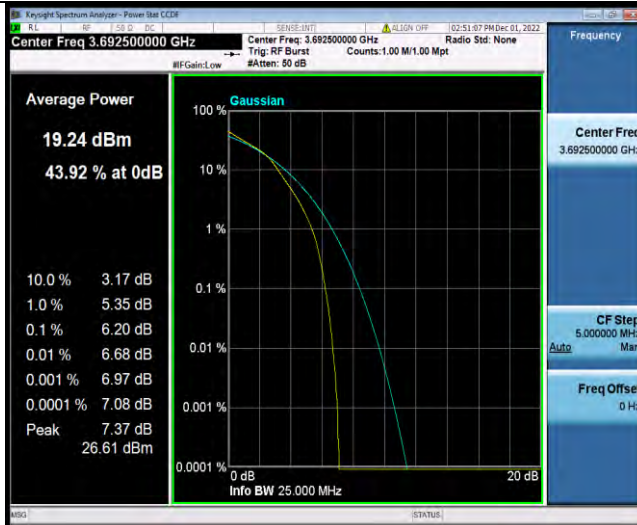
Band48-15MHz-16QAM-55990-75RB#0



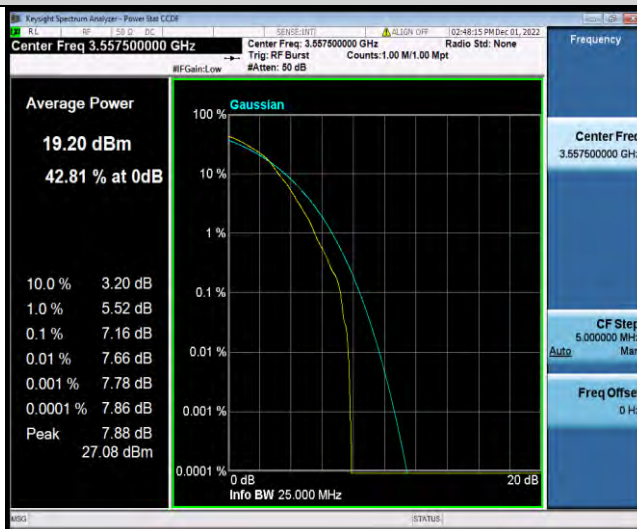
Band48-15MHz-16QAM-56665-1RB#0



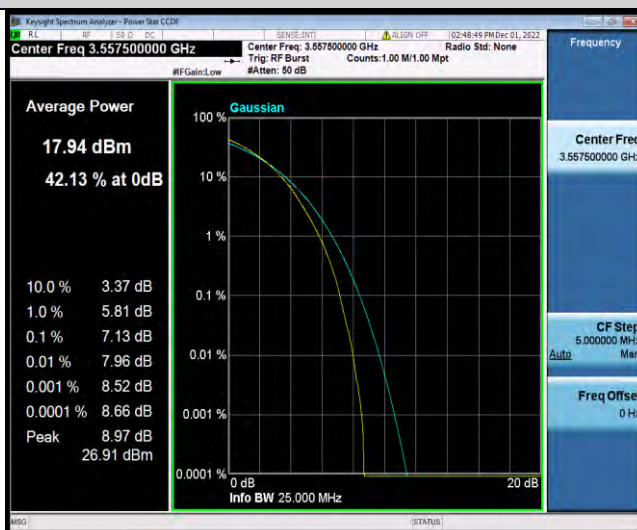
Band48-15MHz-16QAM-56665-75RB#0



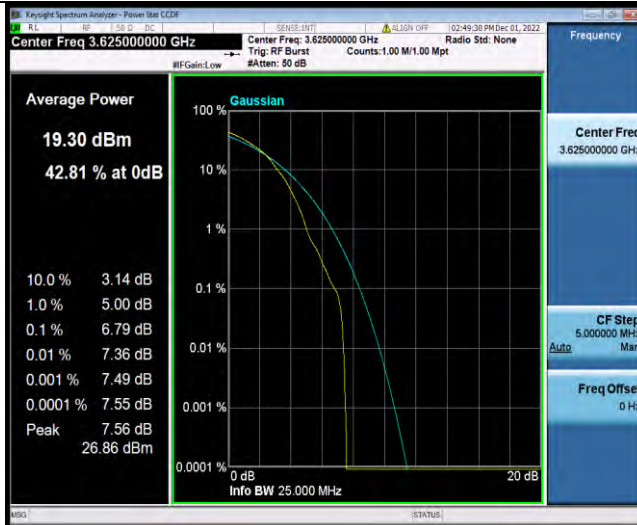
Band48-15MHz-64QAM-55315-1RB#0



Band48-15MHz-64QAM-55315-75RB#0



Band48-15MHz-64QAM-55990-1RB#0



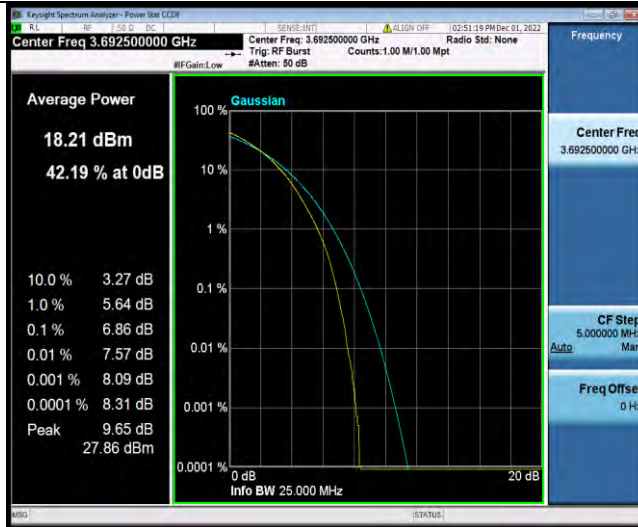
Band48-15MHz-64QAM-55990-75RB#0



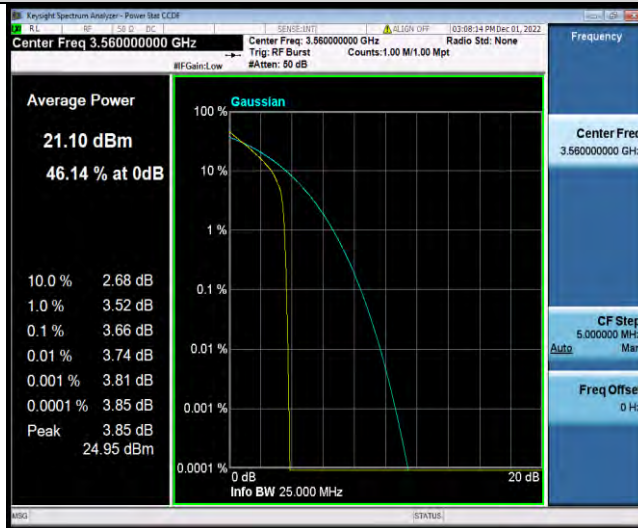
Band48-15MHz-64QAM-56665-1RB#0



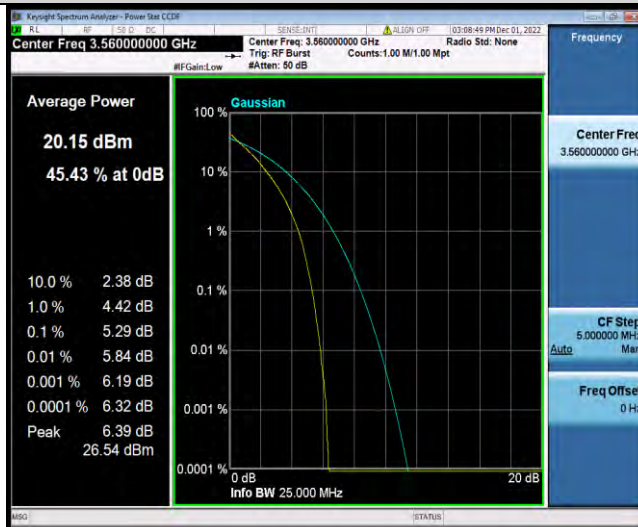
Band48-15MHz-64QAM-56665-75RB#0



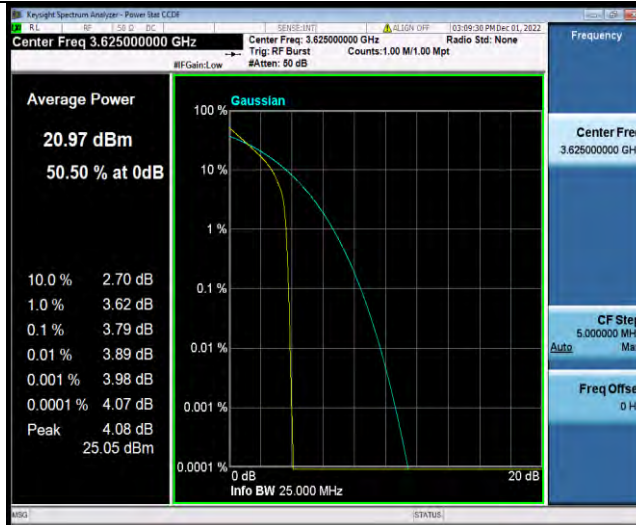
Band48-20MHz-QPSK-55340-1RB#0



Band48-20MHz-QPSK-55340-100RB#0



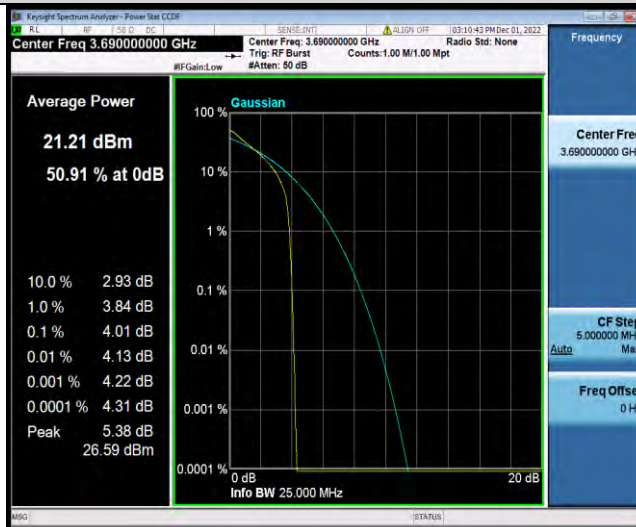
Band48-20MHz-QPSK-55990-1RB#0



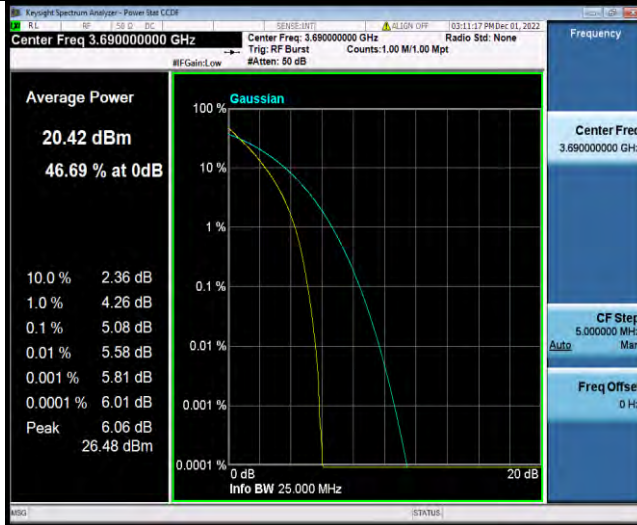
Band48-20MHz-QPSK-55990-100RB#0



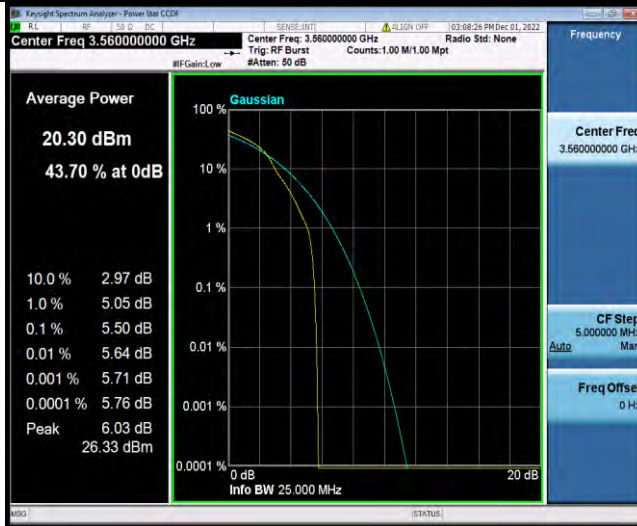
Band48-20MHz-QPSK-56640-1RB#0



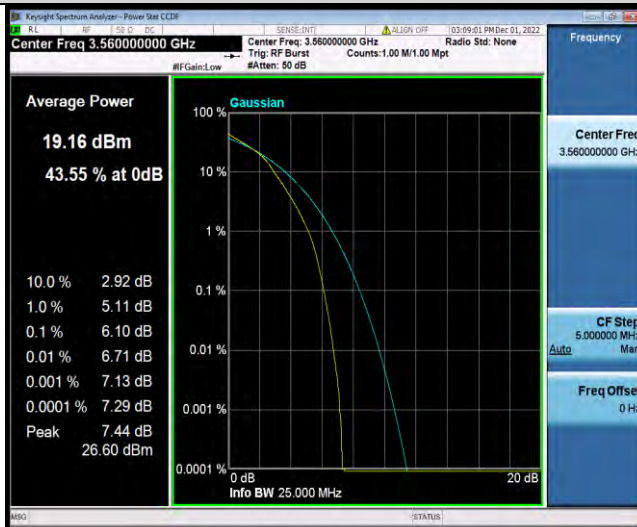
Band48-20MHz-QPSK-56640-100RB#0



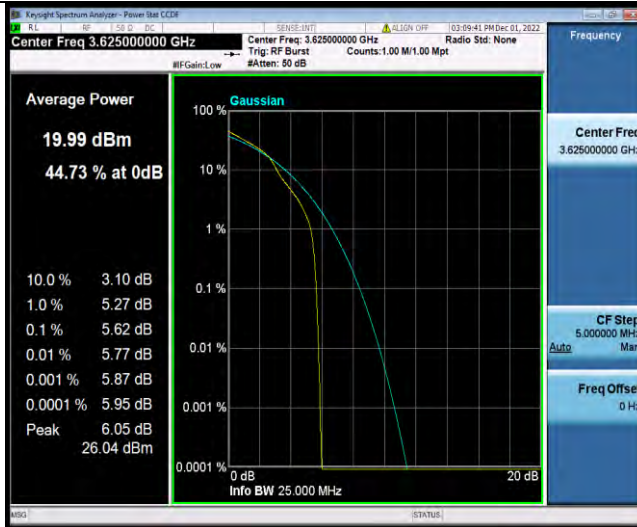
Band48-20MHz-16QAM-55340-1RB#0



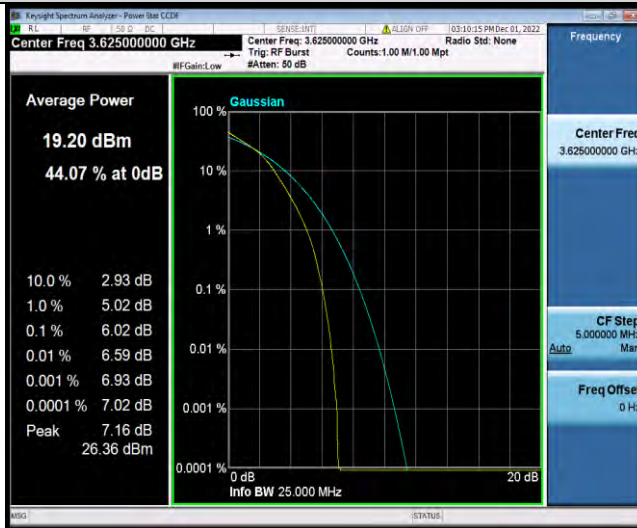
Band48-20MHz-16QAM-55340-100RB#0



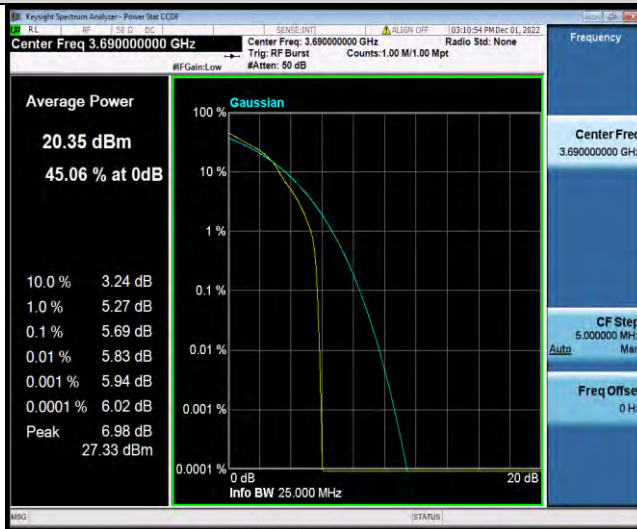
Band48-20MHz-16QAM-55990-1RB#0



Band48-20MHz-16QAM-55990-100RB#0

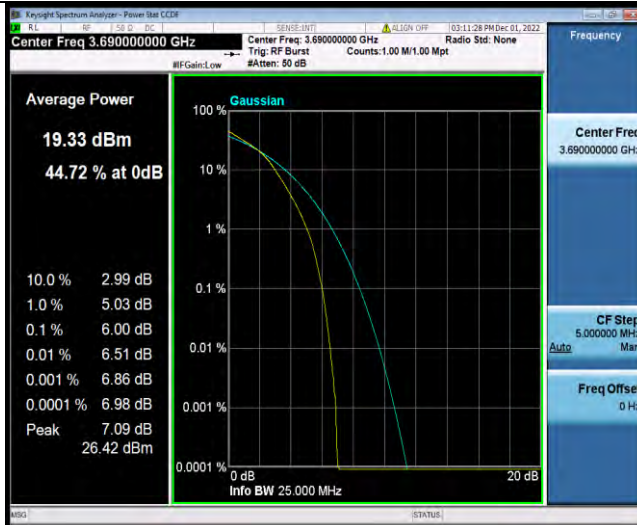


Band48-20MHz-16QAM-56640-1RB#0

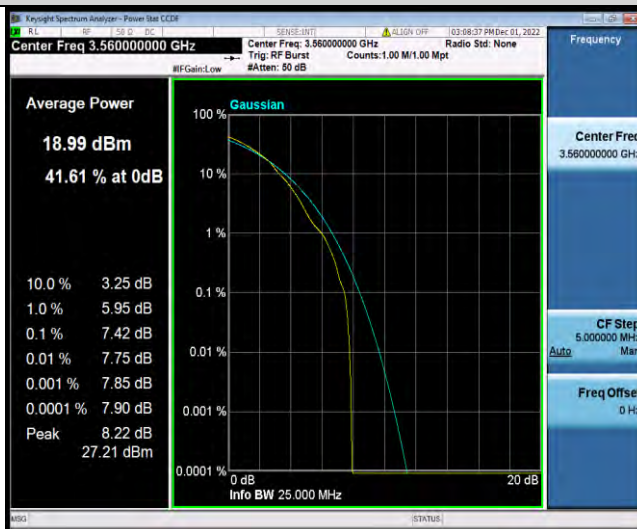


Band48-20MHz-16QAM-56640-100RB#0

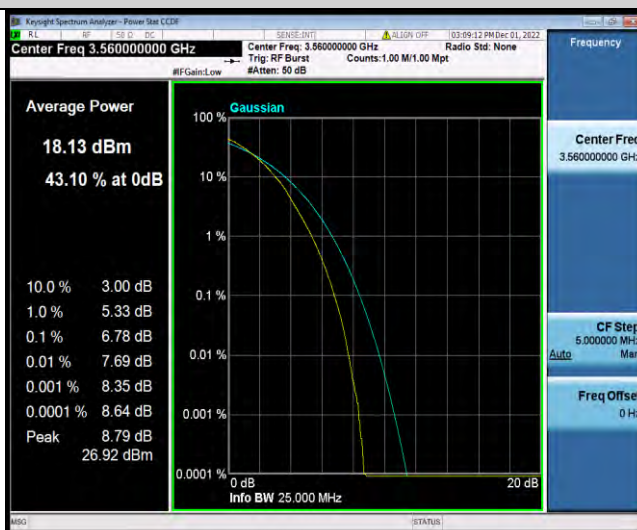




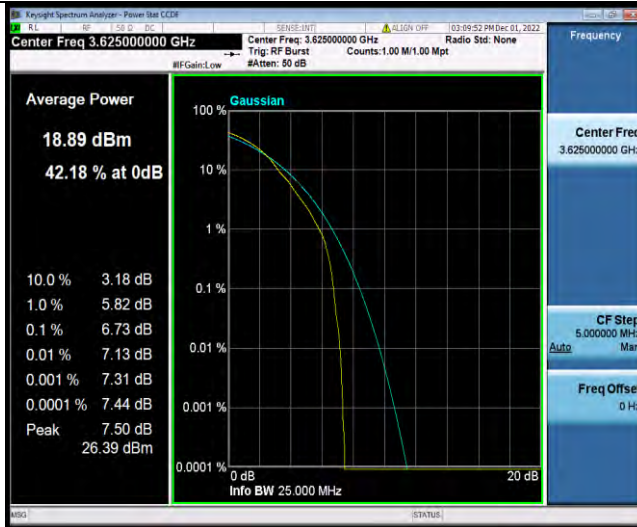
Band48-20MHz-64QAM-55340-1RB#0



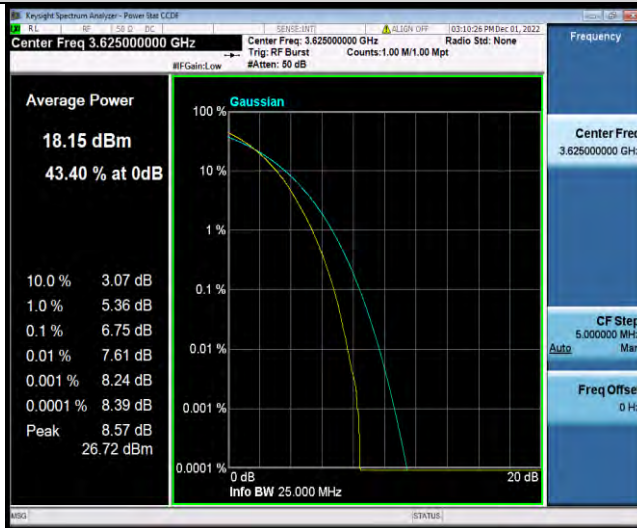
Band48-20MHz-64QAM-55340-100RB#0



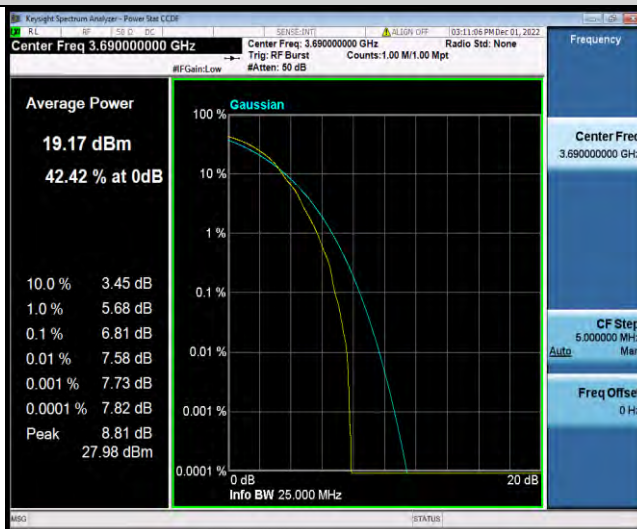
Band48-20MHz-64QAM-55990-1RB#0



Band48-20MHz-64QAM-55990-100RB#0



Band48-20MHz-64QAM-56640-1RB#0

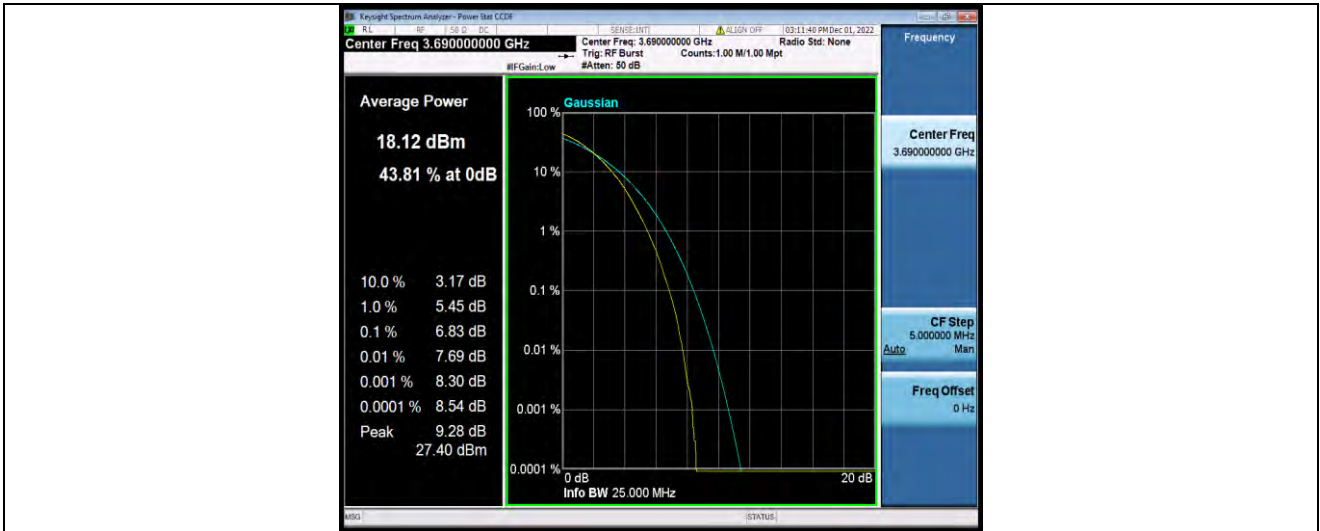


Band48-20MHz-64QAM-56640-100RB#0



**BUREAU  
VERITAS**

**Test Report No.: W7L-P23030016RF10**



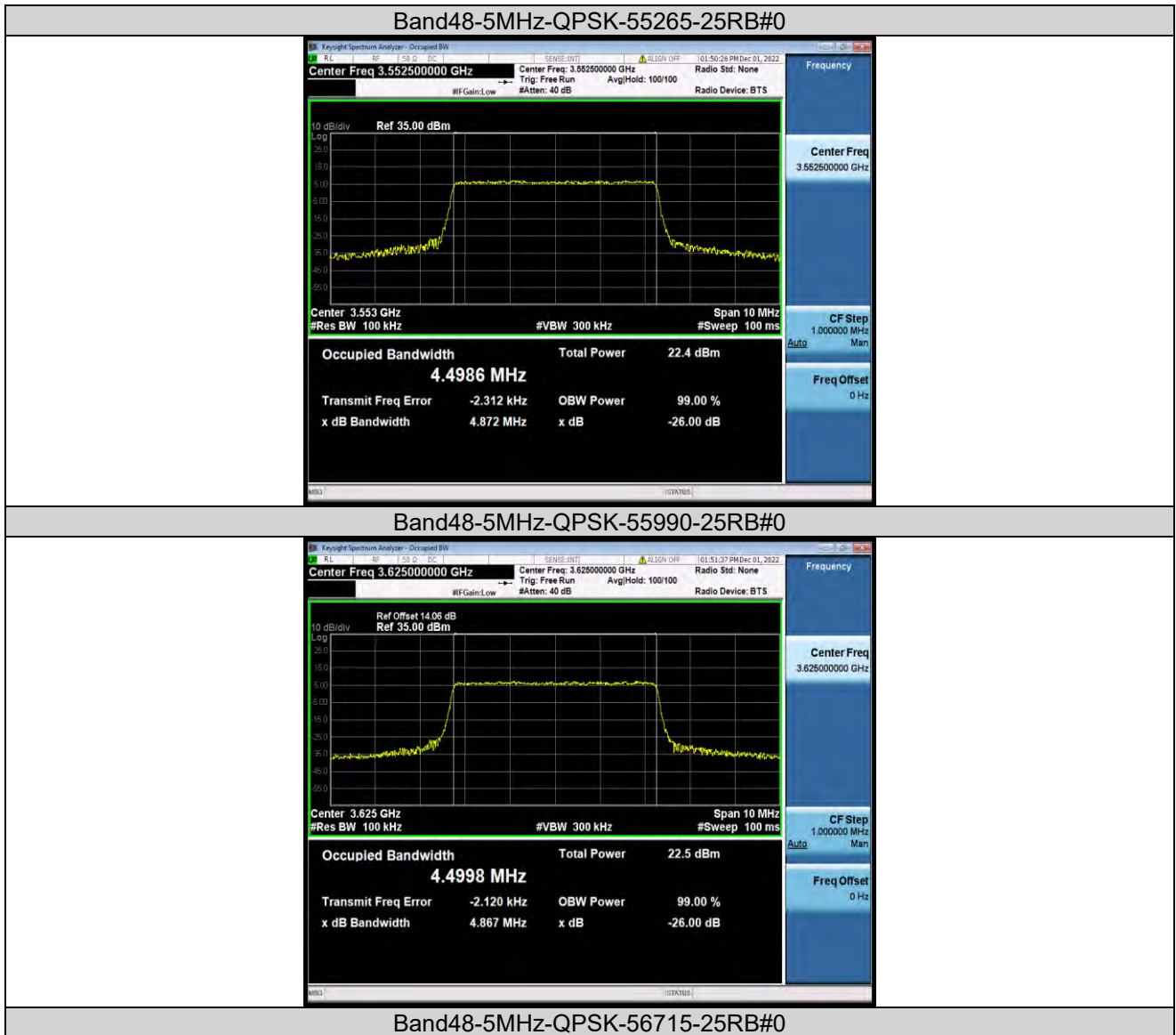


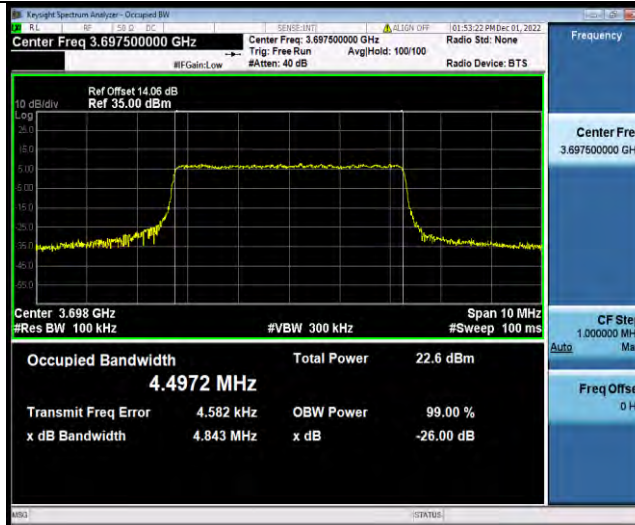
### 26DB BANDWIDTH AND OCCUPIED BANDWIDTH TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band48	5MHz	QPSK	55265	25RB#0	4.4986	4.872	PASS
Band48	5MHz	QPSK	55990	25RB#0	4.4998	4.867	PASS
Band48	5MHz	QPSK	56715	25RB#0	4.4972	4.843	PASS
Band48	5MHz	16QAM	55265	25RB#0	4.4969	4.836	PASS
Band48	5MHz	16QAM	55990	25RB#0	4.4958	4.840	PASS
Band48	5MHz	16QAM	56715	25RB#0	4.4993	4.815	PASS
Band48	5MHz	64QAM	55265	25RB#0	4.5011	4.838	PASS
Band48	5MHz	64QAM	55990	25RB#0	4.5034	4.856	PASS
Band48	5MHz	64QAM	56715	25RB#0	4.4890	4.839	PASS
Band48	10MHz	QPSK	55290	50RB#0	8.9805	9.529	PASS
Band48	10MHz	QPSK	55990	50RB#0	8.9835	9.512	PASS
Band48	10MHz	QPSK	56690	50RB#0	8.9824	9.579	PASS
Band48	10MHz	16QAM	55290	50RB#0	8.9783	9.523	PASS
Band48	10MHz	16QAM	55990	50RB#0	8.9823	9.518	PASS
Band48	10MHz	16QAM	56690	50RB#0	8.9605	9.525	PASS
Band48	10MHz	64QAM	55290	50RB#0	8.9581	9.516	PASS
Band48	10MHz	64QAM	55990	50RB#0	8.9825	9.518	PASS
Band48	10MHz	64QAM	56690	50RB#0	8.9730	9.499	PASS
Band48	15MHz	QPSK	55315	75RB#0	13.454	14.25	PASS
Band48	15MHz	QPSK	55990	75RB#0	13.444	14.28	PASS
Band48	15MHz	QPSK	56665	75RB#0	13.469	14.23	PASS
Band48	15MHz	16QAM	55315	75RB#0	13.458	14.27	PASS
Band48	15MHz	16QAM	55990	75RB#0	13.447	14.24	PASS
Band48	15MHz	16QAM	56665	75RB#0	13.468	14.26	PASS
Band48	15MHz	64QAM	55315	75RB#0	13.451	14.25	PASS
Band48	15MHz	64QAM	55990	75RB#0	13.444	14.27	PASS
Band48	15MHz	64QAM	56665	75RB#0	13.448	14.26	PASS
Band48	20MHz	QPSK	55340	100RB#0	17.931	18.96	PASS
Band48	20MHz	QPSK	55990	100RB#0	17.932	18.96	PASS
Band48	20MHz	QPSK	56640	100RB#0	17.933	18.99	PASS
Band48	20MHz	16QAM	55340	100RB#0	17.921	18.96	PASS
Band48	20MHz	16QAM	55990	100RB#0	17.936	18.95	PASS
Band48	20MHz	16QAM	56640	100RB#0	17.917	19.00	PASS
Band48	20MHz	64QAM	55340	100RB#0	17.942	18.93	PASS
Band48	20MHz	64QAM	55990	100RB#0	17.939	18.95	PASS
Band48	20MHz	64QAM	56640	100RB#0	17.932	18.96	PASS



### TEST GRAPHS

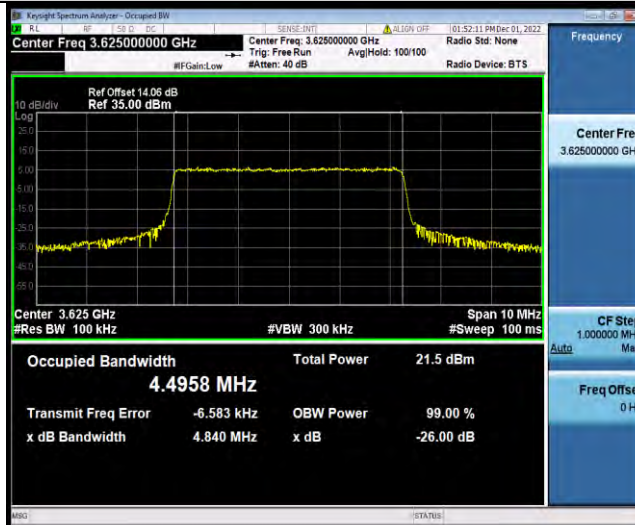




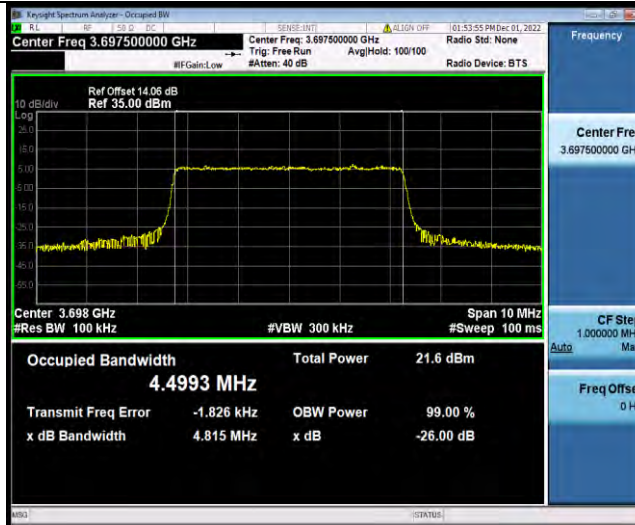
Band48-5MHz-16QAM-55265-25RB#0



Band48-5MHz-16QAM-55990-25RB#0



Band48-5MHz-16QAM-56715-25RB#0



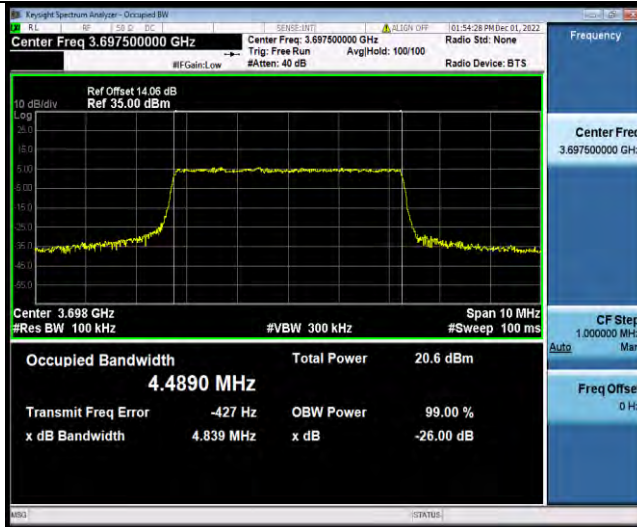
Band48-5MHz-64QAM-55265-25RB#0



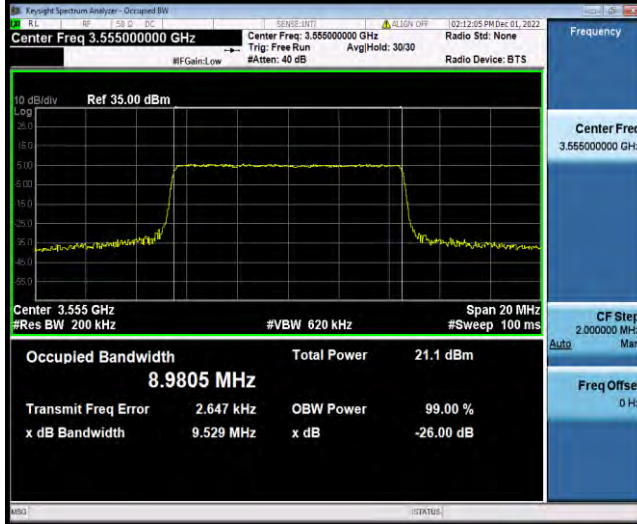
Band48-5MHz-64QAM-55990-25RB#0



Band48-5MHz-64QAM-56715-25RB#0



Band48-10MHz-QPSK-55290-50RB#0



Band48-10MHz-QPSK-55990-50RB#0



Band48-10MHz-QPSK-56690-50RB#0

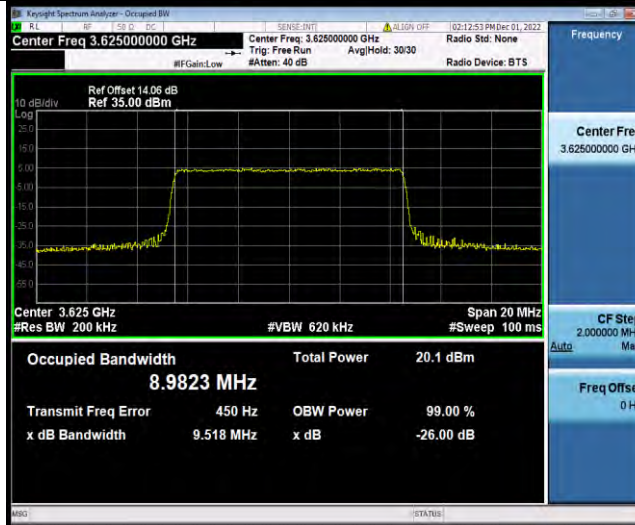




Band48-10MHz-16QAM-55290-50RB#0



Band48-10MHz-16QAM-55990-50RB#0



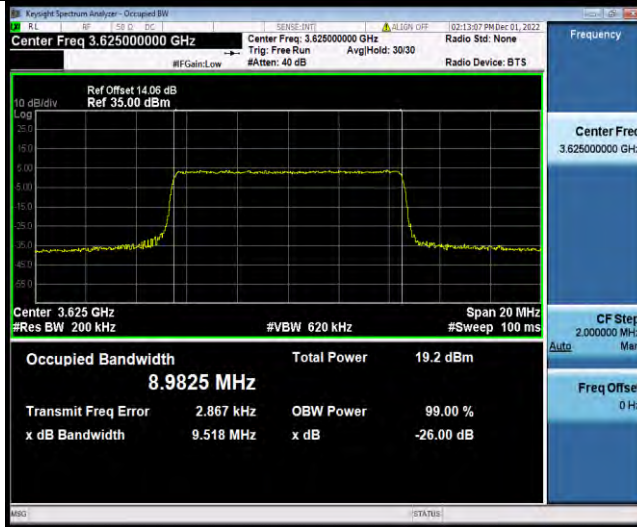
Band48-10MHz-16QAM-56690-50RB#0



Band48-10MHz-64QAM-55290-50RB#0



Band48-10MHz-64QAM-55990-50RB#0



Band48-10MHz-64QAM-56690-50RB#0