Appendix I: Test Data for E-UTRA Band 5

Product Name: Volla Phone Quintus

Test Model: Quintus

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng

I.1Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	24.61	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	24.58	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.80	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	25.10	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.67	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	25.01	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	24.86	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	24.84	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	24.60	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	24.58	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	24.74	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	24.67	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.80	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	23.55	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.98	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	24.09	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.11	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	24.11	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.99	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	24.06	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	24.33	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	24.32	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	24.31	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	24.31	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	24.25	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	24.26	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.40	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	23.12	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.75	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.92	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.87	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.70	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.68	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	24.06	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	24.17	PASS

Band5	1.4MHz	QPSK	20643	3RB#1	24.18	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	24.20	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	24.06	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	24.02	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.95	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.81	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.98	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.58	PASS
Band5	3MHz	16QAM	20415	1RB#8	24.04	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.40	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.68	PASS
Band5	3MHz	QPSK	20415	8RB#0	23.71	PASS
Band5	3MHz	16QAM	20415	8RB#0	23.70	PASS
Band5	3MHz	QPSK	20415	8RB#4	23.70	PASS
Band5	3MHz	16QAM	20415	8RB#4	23.70	PASS
Band5	3MHz	QPSK	20415	8RB#7	23.70	PASS
Band5	3MHz	16QAM	20415	8RB#7	23.58	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.58	PASS
Band5	3MHz	16QAM	20415	15RB#0	23.04	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.24	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.91	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.14	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.86	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.04	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.67	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.17	PASS
Band5	3MHz	16QAM	20525	8RB#0	23.18	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.18	PASS
Band5	3MHz	16QAM	20525	8RB#4	23.18	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.18	PASS
Band5	3MHz	16QAM	20525	8RB#7	23.19	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.19	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.49	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.16	PASS
Band5	3MHz	16QAM	20635	1RB#0	24.25	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.06	PASS
Band5	3MHz	16QAM	20635	1RB#8	24.18	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.65	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.52	PASS
Band5	3MHz	QPSK	20635	8RB#0	23.33	PASS
Band5	3MHz	16QAM	20635	8RB#0	23.34	PASS

Band5	3MHz	QPSK	20635	8RB#4	23.34	PASS
Band5	3MHz	16QAM	20635	8RB#4	23.34	PASS
Band5	3MHz	QPSK	20635	8RB#7	23.34	PASS
Band5	3MHz	16QAM	20635	8RB#7	23.34	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.34	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.69	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.62	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.31	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.63	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.37	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.47	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.23	PASS
Band5	5MHz	QPSK	20425	12RB#0	23.68	PASS
Band5	5MHz	16QAM	20425	12RB#0	23.64	PASS
Band5	5MHz	QPSK	20425	12RB#6	23.65	PASS
Band5	5MHz	16QAM	20425	12RB#6	23.64	PASS
Band5	5MHz	QPSK	20425	12RB#13	23.62	PASS
Band5	5MHz	16QAM	20425	12RB#13	23.61	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.65	PASS
Band5	5MHz	16QAM	20425	25RB#0	23.20	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.07	PASS
Band5	5MHz	16QAM	20525	1RB#0	24.12	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.85	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.97	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.98	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.91	PASS
Band5	5MHz	QPSK	20525	12RB#0	23.29	PASS
Band5	5MHz	16QAM	20525	12RB#0	23.29	PASS
Band5	5MHz	QPSK	20525	12RB#6	23.29	PASS
Band5	5MHz	16QAM	20525	12RB#6	23.30	PASS
Band5	5MHz	QPSK	20525	12RB#13	23.20	PASS
Band5	5MHz	16QAM	20525	12RB#13	23.20	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.25	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.49	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.07	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.47	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.21	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.52	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.81	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.23	PASS
Band5	5MHz	QPSK	20625	12RB#0	23.30	PASS
Band5	5MHz	16QAM	20625	12RB#0	23.32	PASS

Band5	5MHz	QPSK	20625	12RB#6	23.33	PASS
Band5	5MHz	16QAM	20625	12RB#6	23.32	PASS
Band5	5MHz	QPSK	20625	12RB#13	23.33	PASS
Band5	5MHz	16QAM	20625	12RB#13	23.31	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.34	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.87	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.55	PASS
Band5	10MHz	16QAM	20450	1RB#0	24.08	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.37	PASS
Band5	10MHz	16QAM	20450	1RB#24	24.01	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.16	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.77	PASS
Band5	10MHz	QPSK	20450	25RB#0	23.60	PASS
Band5	10MHz	16QAM	20450	25RB#0	23.71	PASS
Band5	10MHz	QPSK	20450	25RB#12	23.70	PASS
Band5	10MHz	16QAM	20450	25RB#12	23.71	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.40	PASS
Band5	10MHz	16QAM	20450	25RB#25	23.43	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.53	PASS
Band5	10MHz	16QAM	20450	50RB#0	23.03	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.23	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.78	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.13	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.78	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.00	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.58	PASS
Band5	10MHz	QPSK	20525	25RB#0	23.25	PASS
Band5	10MHz	16QAM	20525	25RB#0	23.21	PASS
Band5	10MHz	QPSK	20525	25RB#12	23.33	PASS
Band5	10MHz	16QAM	20525	25RB#12	23.32	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.09	PASS
Band5	10MHz	16QAM	20525	25RB#25	23.15	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.29	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.66	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.05	PASS
Band5	10MHz	16QAM	20600	1RB#0	24.10	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.08	PASS
Band5	10MHz	16QAM	20600	1RB#24	24.06	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.00	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.90	PASS
Band5	10MHz	QPSK	20600	25RB#0	23.17	PASS
Band5	10MHz	16QAM	20600	25RB#0	23.20	PASS

Band5	10MHz	QPSK	20600	25RB#12	23.20	PASS
Band5	10MHz	16QAM	20600	25RB#12	23.21	PASS
Band5	10MHz	QPSK	20600	25RB#25	23.36	PASS
Band5	10MHz	16QAM	20600	25RB#25	23.41	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.30	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.79	PASS

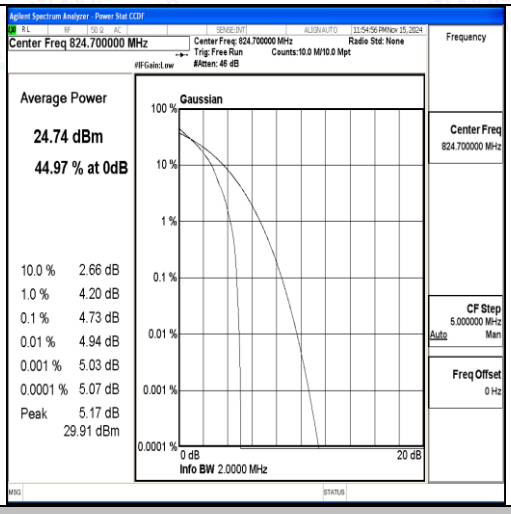
I.2 Peak-to-Average Ratio(CCDF)

Test Result

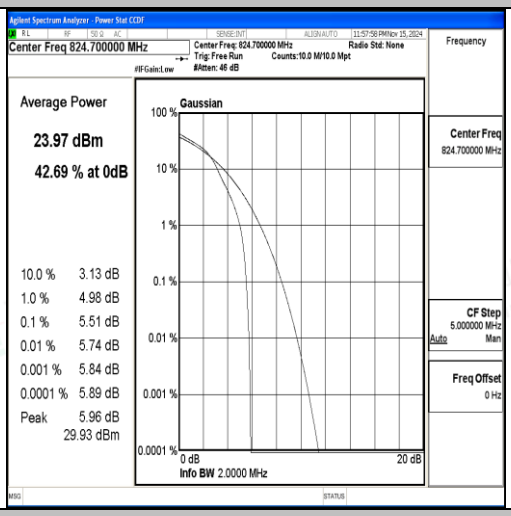
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.73	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.51	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.66	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.15	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.87	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.15	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.55	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.19	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3.77	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	3.95	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.29	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	4.91	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	5.01	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	4.96	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.82	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.50	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.97	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.49	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.68	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.34	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.31	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	4.24	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.81	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.46	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.96	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.46	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.86	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.48	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.92	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.60	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.72	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.30	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.55	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	4.83	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.26	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.80	13	PASS

Band5	10MHz	QPSK	20450	1RB#0	5.04	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.19	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.59	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.30	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.82	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.34	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.71	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.31	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.79	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.79	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.44	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.10	13	PASS

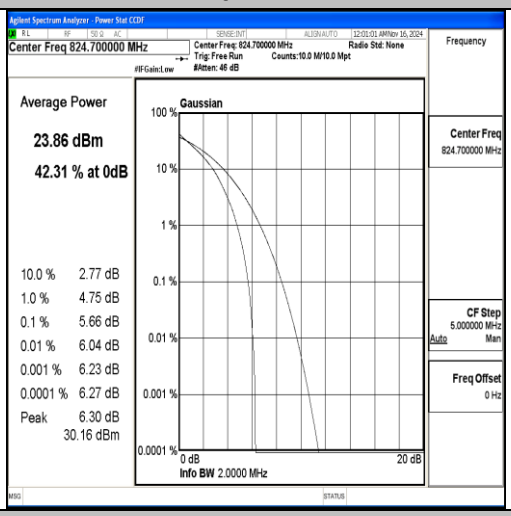
Test Graphs



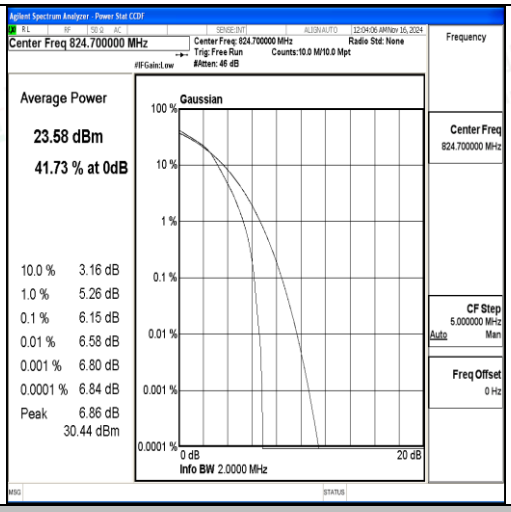
Band5-1.4MHz-QPSK-20407-1RB#0-PASS



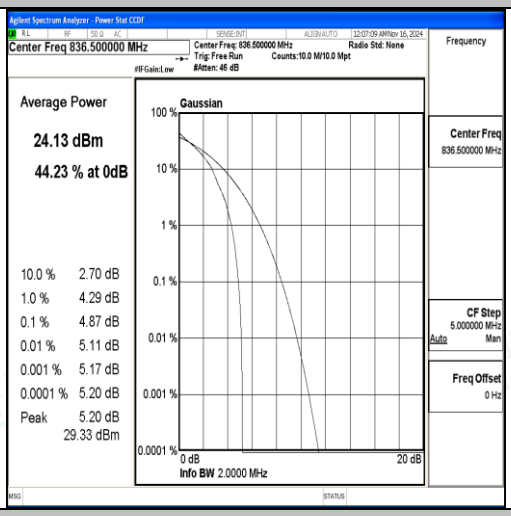
Band5-1.4MHz-16QAM-20407-1RB#0-PASS



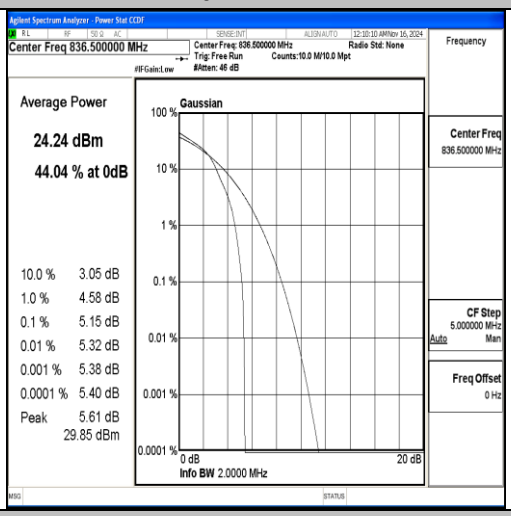
Band5-1.4MHz-QPSK-20407-6RB#0-PASS



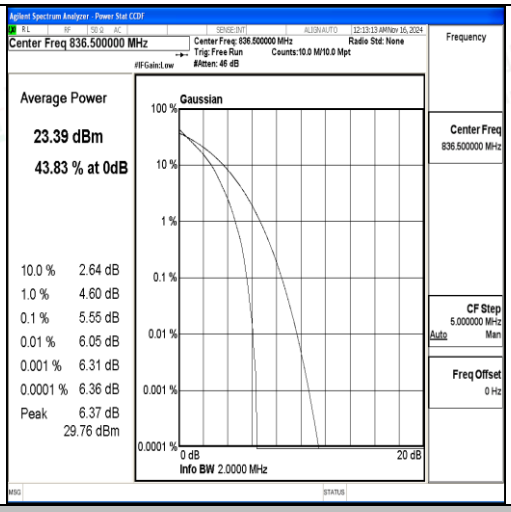
Band5-1.4MHz-16QAM-20407-6RB#0-PASS



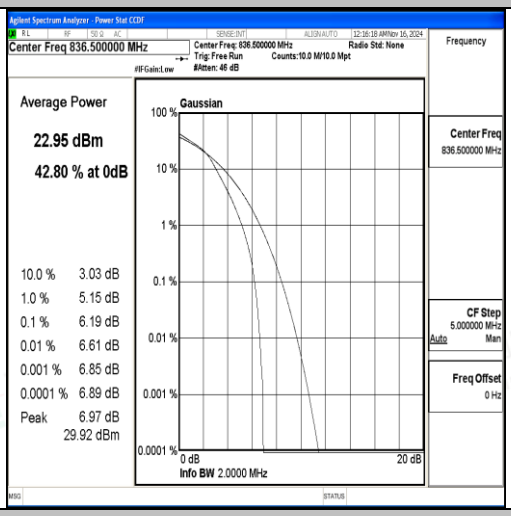
Band5-1.4MHz-QPSK-20525-1RB#0-PASS



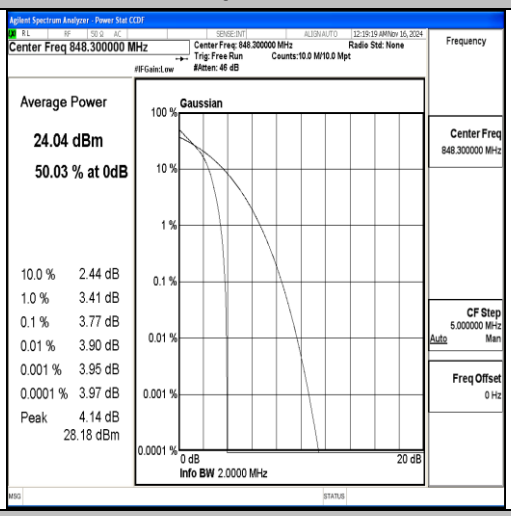
Band5-1.4MHz-16QAM-20525-1RB#0-PASS



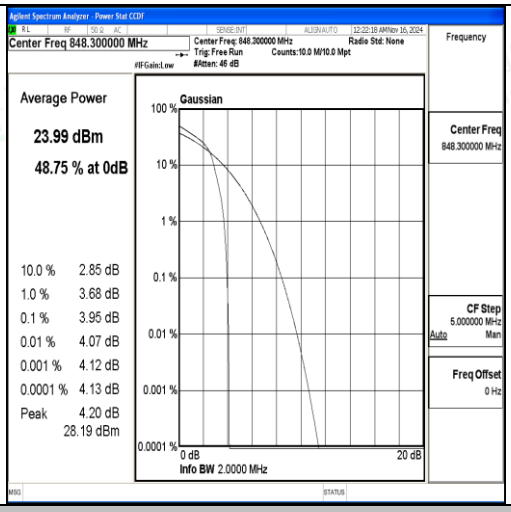
Band5-1.4MHz-QPSK-20525-6RB#0-PASS



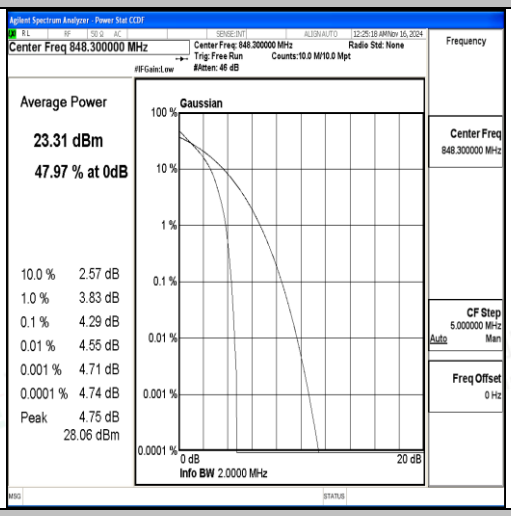
Band5-1.4MHz-16QAM-20525-6RB#0-PASS



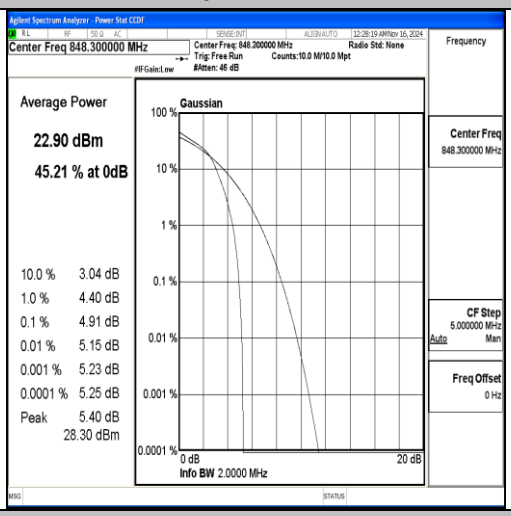
Band5-1.4MHz-QPSK-20643-1RB#0-PASS



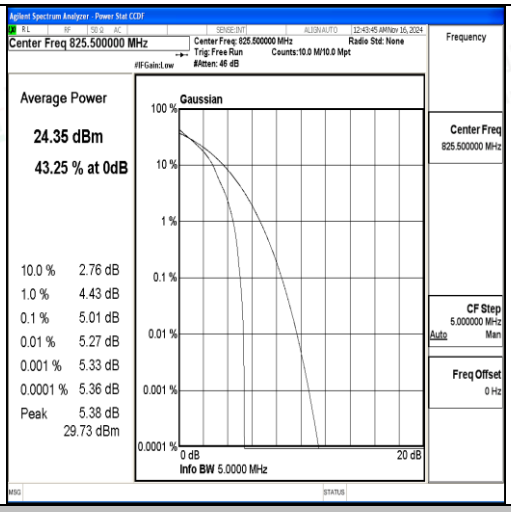
Band5-1.4MHz-16QAM-20643-1RB#0-PASS



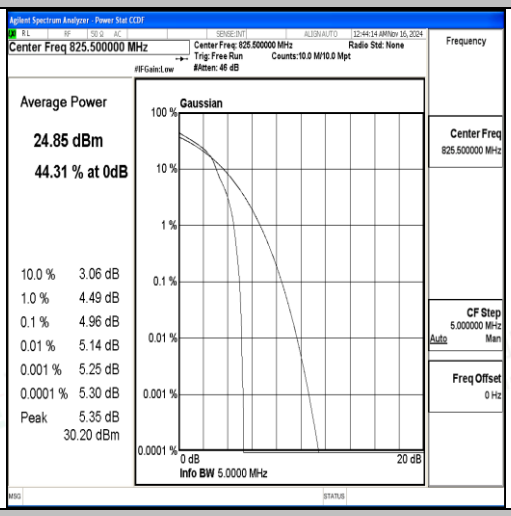
Band5-1.4MHz-QPSK-20643-6RB#0-PASS



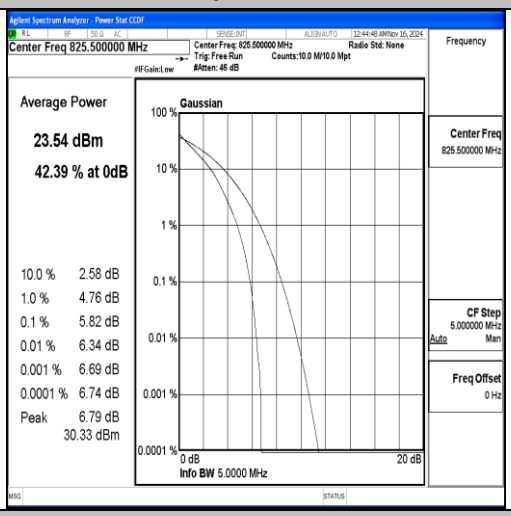
Band5-1.4MHz-16QAM-20643-6RB#0-PASS



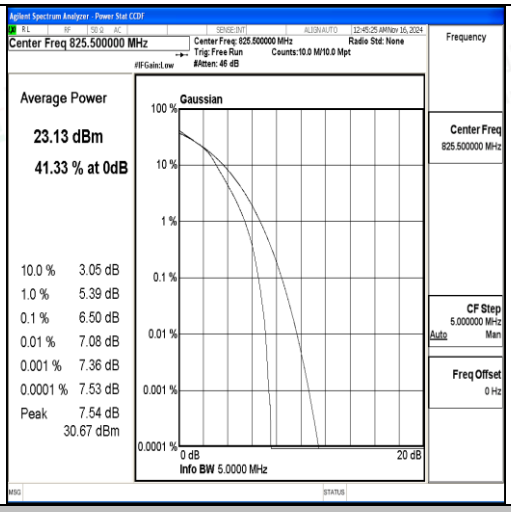
Band5-3MHz-QPSK-20415-1RB#0-PASS



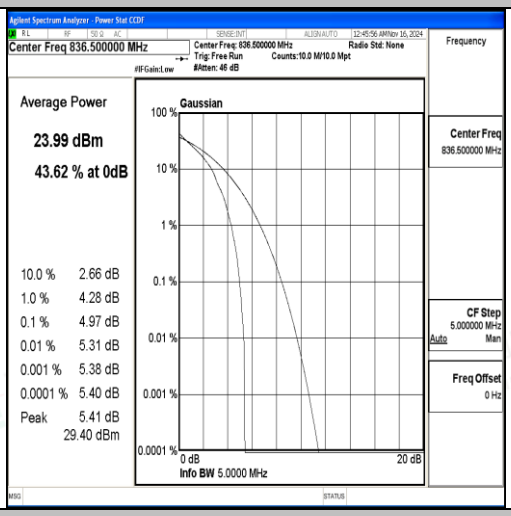
Band5-3MHz-16QAM-20415-1RB#0-PASS



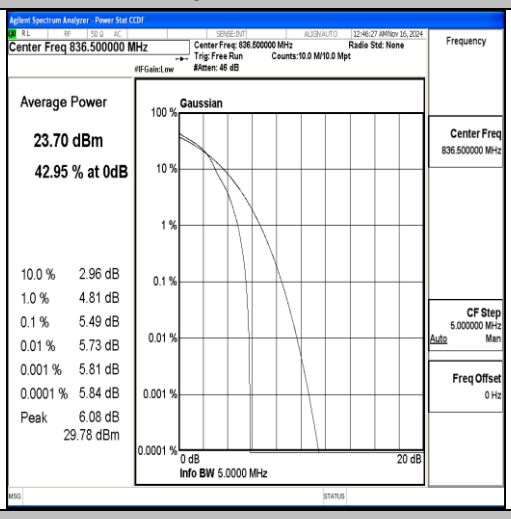
Band5-3MHz-QPSK-20415-15RB#0-PASS



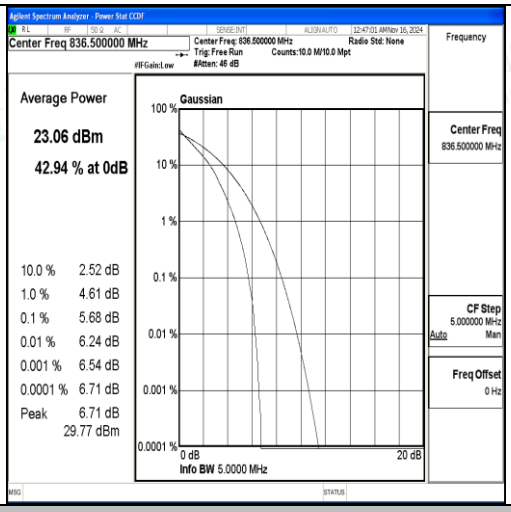
Band5-3MHz-16QAM-20415-15RB#0-PASS



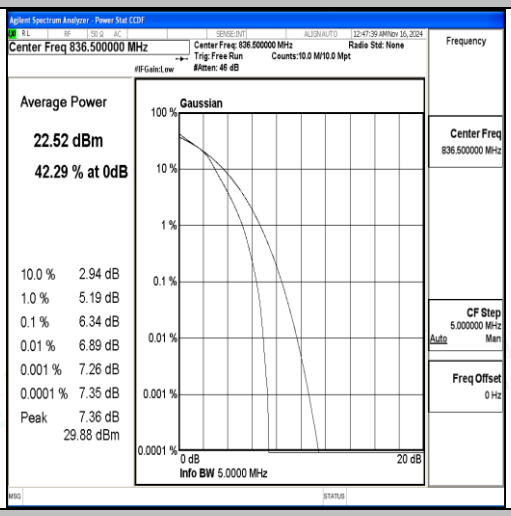
Band5-3MHz-QPSK-20525-1RB#0-PASS



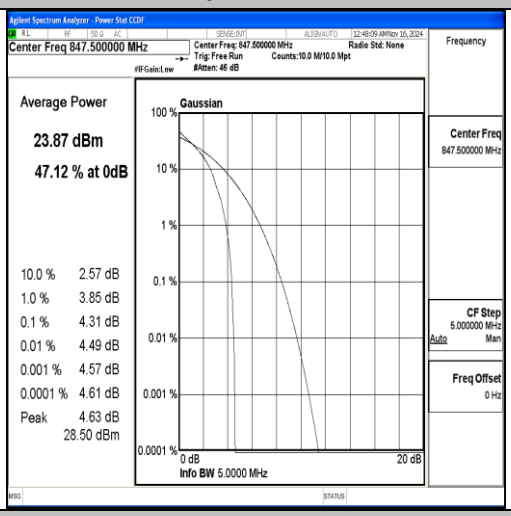
Band5-3MHz-16QAM-20525-1RB#0-PASS



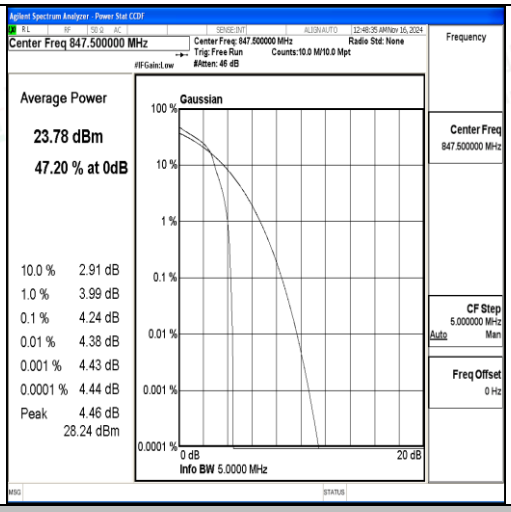
Band5-3MHz-QPSK-20525-15RB#0-PASS



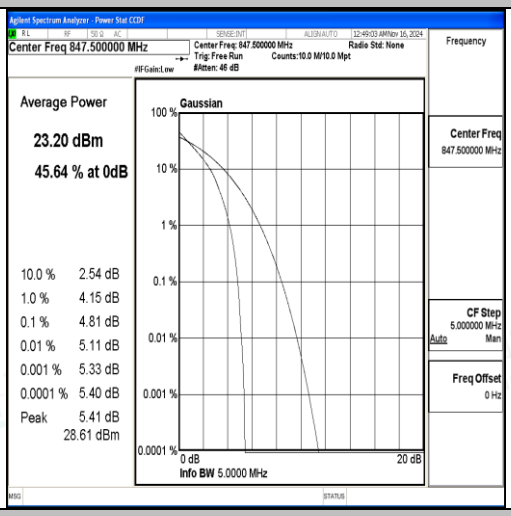
Band5-3MHz-16QAM-20525-15RB#0-PASS



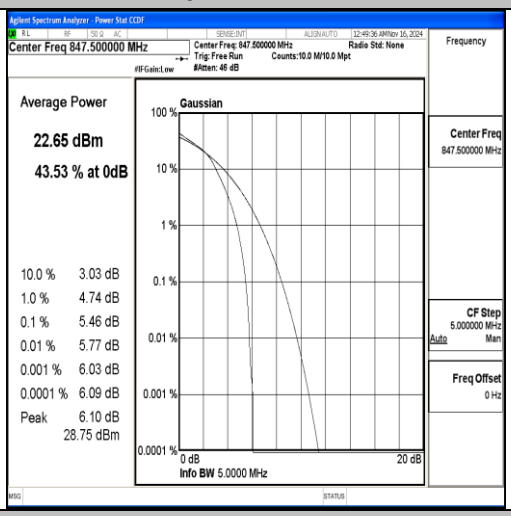
Band5-3MHz-QPSK-20635-1RB#0-PASS



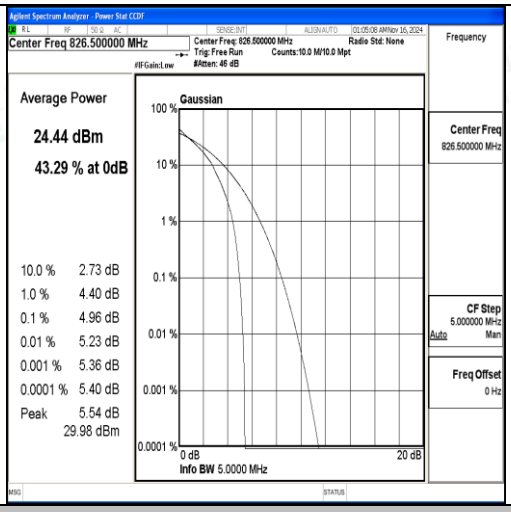
Band5-3MHz-16QAM-20635-1RB#0-PASS



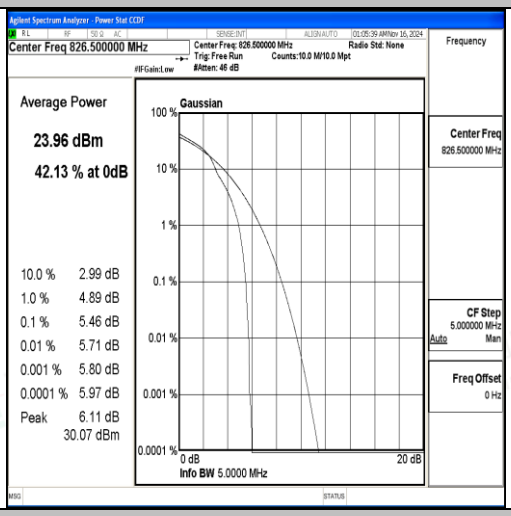
Band5-3MHz-QPSK-20635-15RB#0-PASS



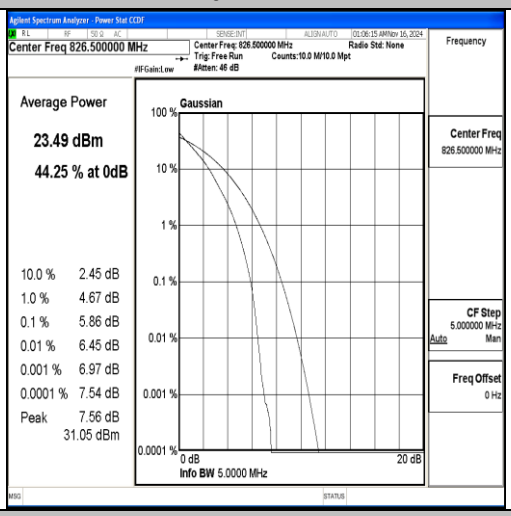
Band5-3MHz-16QAM-20635-15RB#0-PASS



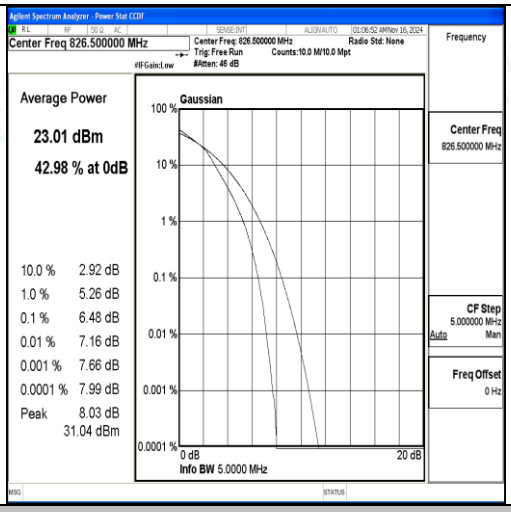
Band5-5MHz-QPSK-20425-1RB#0-PASS



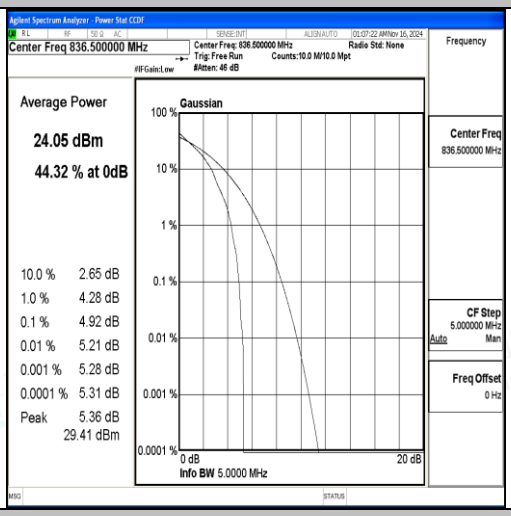
Band5-5MHz-16QAM-20425-1RB#0-PASS



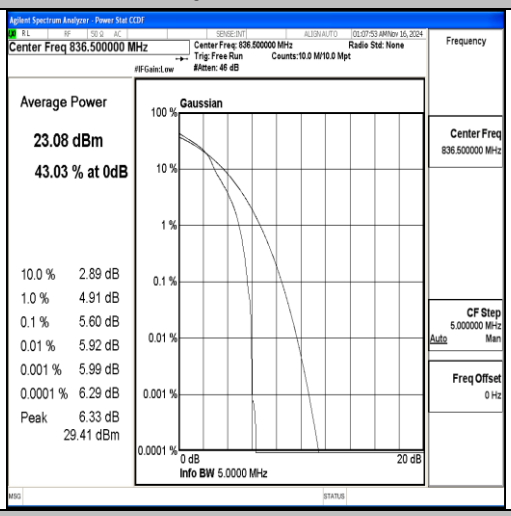
Band5-5MHz-QPSK-20425-25RB#0-PASS



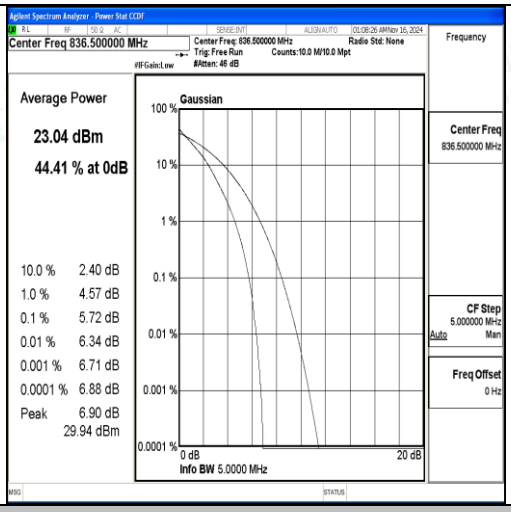
Band5-5MHz-16QAM-20425-25RB#0-PASS



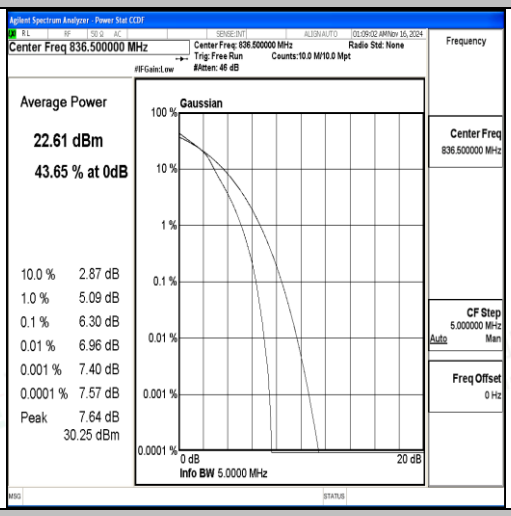
Band5-5MHz-QPSK-20525-1RB#0-PASS



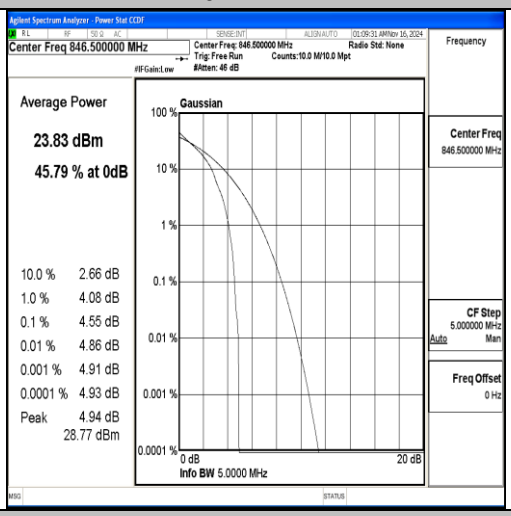
Band5-5MHz-16QAM-20525-1RB#0-PASS



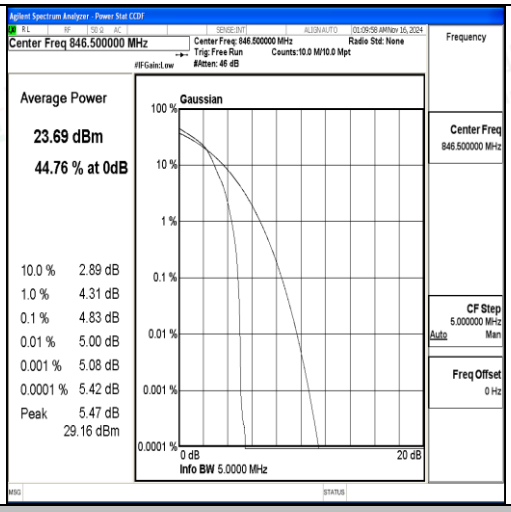
Band5-5MHz-QPSK-20525-25RB#0-PASS



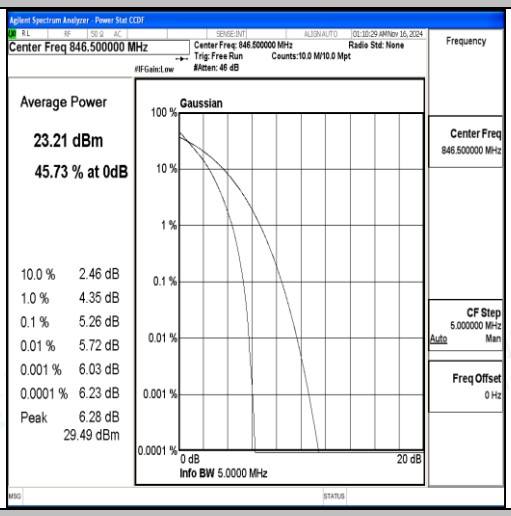
Band5-5MHz-16QAM-20525-25RB#0-PASS



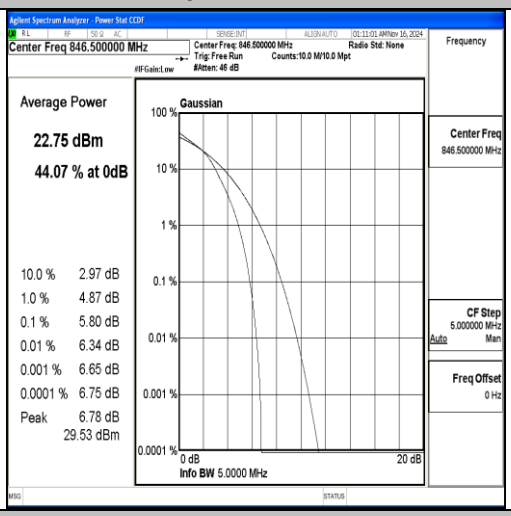
Band5-5MHz-QPSK-20625-1RB#0-PASS



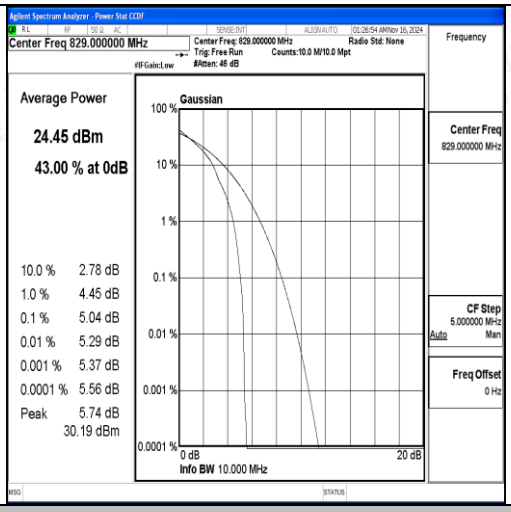
Band5-5MHz-16QAM-20625-1RB#0-PASS



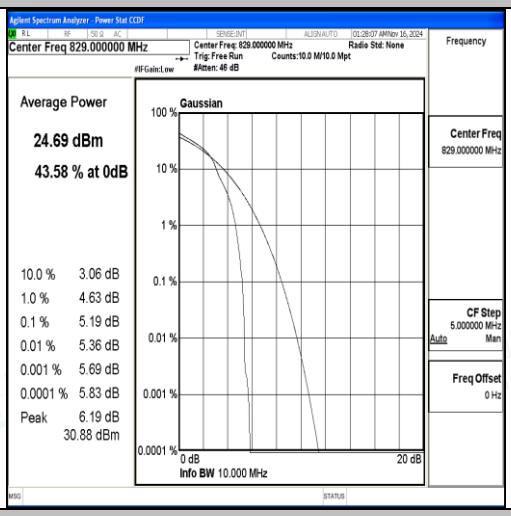
Band5-5MHz-QPSK-20625-25RB#0-PASS



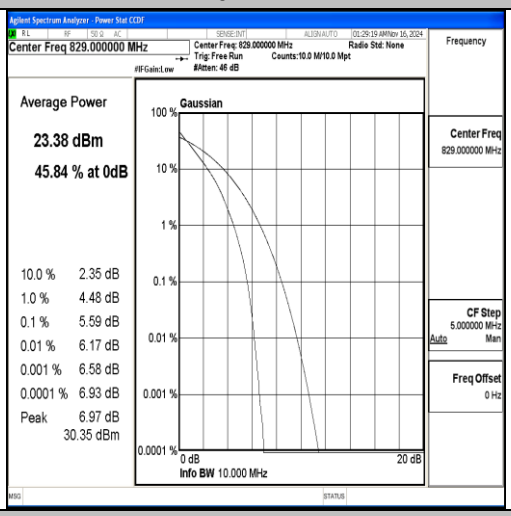
Band5-5MHz-16QAM-20625-25RB#0-PASS



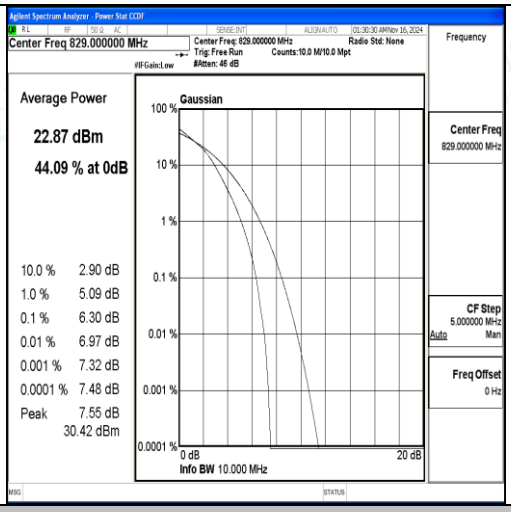
Band5-10MHz-QPSK-20450-1RB#0-PASS



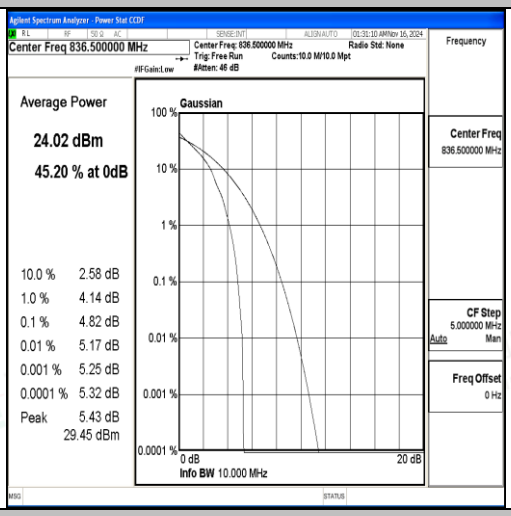
Band5-10MHz-16QAM-20450-1RB#0-PASS



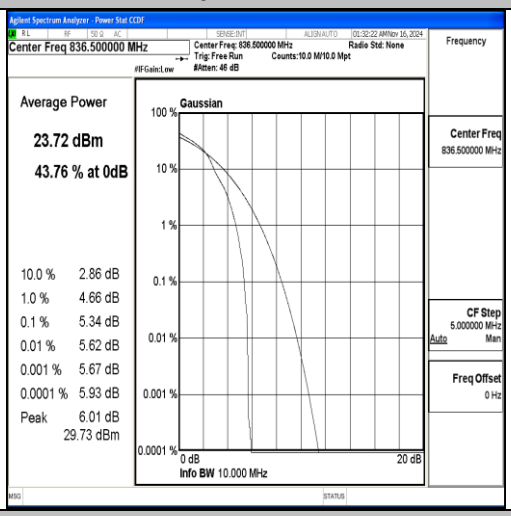
Band5-10MHz-QPSK-20450-50RB#0-PASS



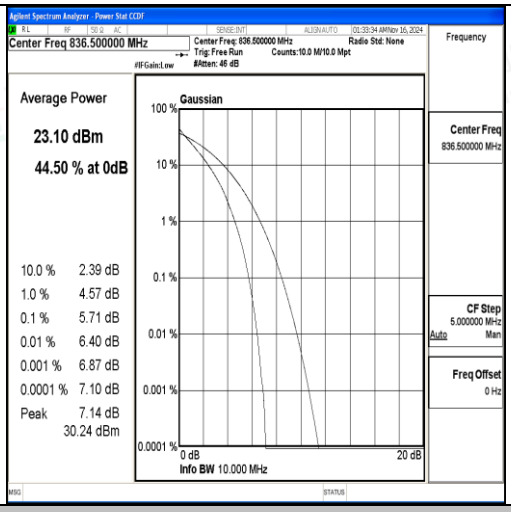
Band5-10MHz-16QAM-20450-50RB#0-PASS



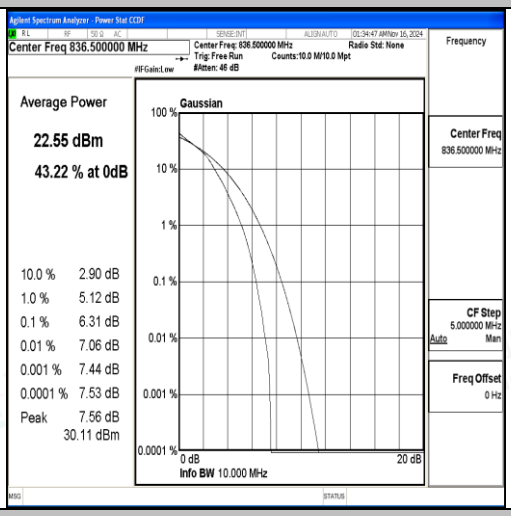
Band5-10MHz-QPSK-20525-1RB#0-PASS



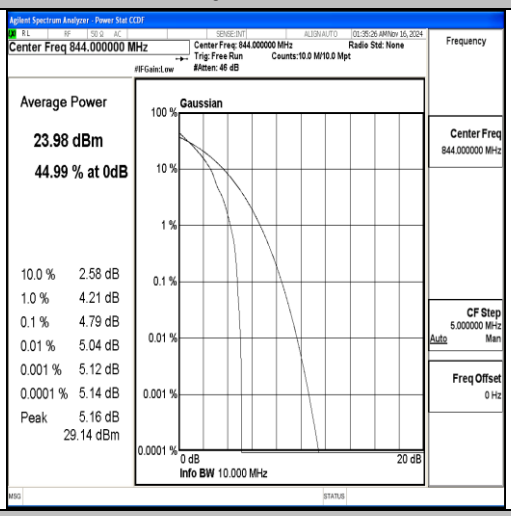
Band5-10MHz-16QAM-20525-1RB#0-PASS



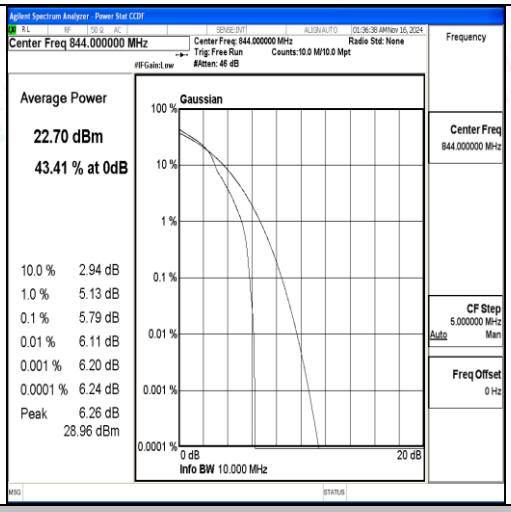
Band5-10MHz-QPSK-20525-50RB#0-PASS



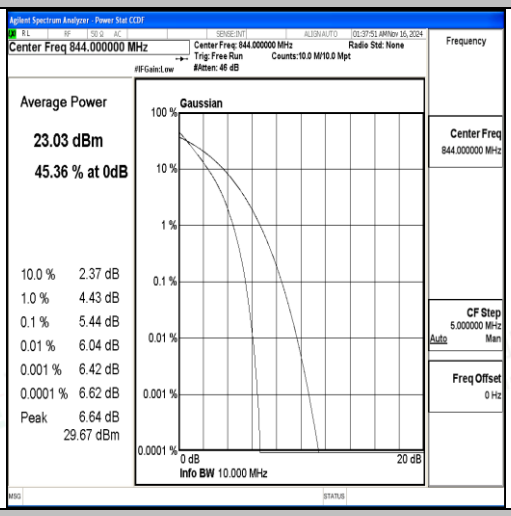
Band5-10MHz-16QAM-20525-50RB#0-PASS



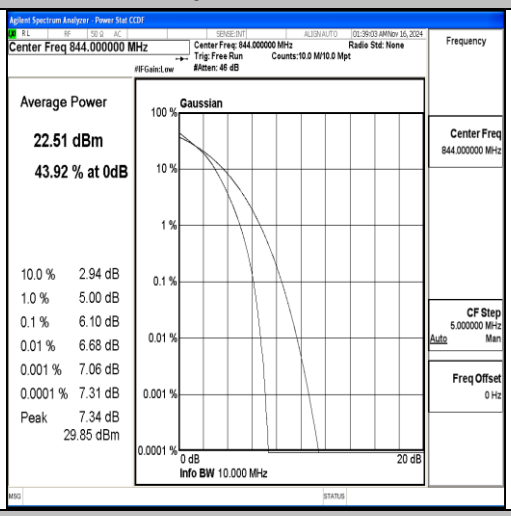
Band5-10MHz-QPSK-20600-1RB#0-PASS



Band5-10MHz-16QAM-20600-1RB#0-PASS



Band5-10MHz-QPSK-20600-50RB#0-PASS



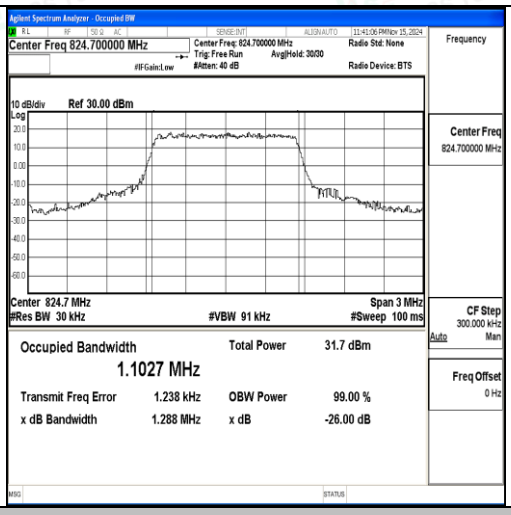
Band5-10MHz-16QAM-20600-50RB#0-PASS

I.3 26dB Bandwidth and Occupied Bandwidth

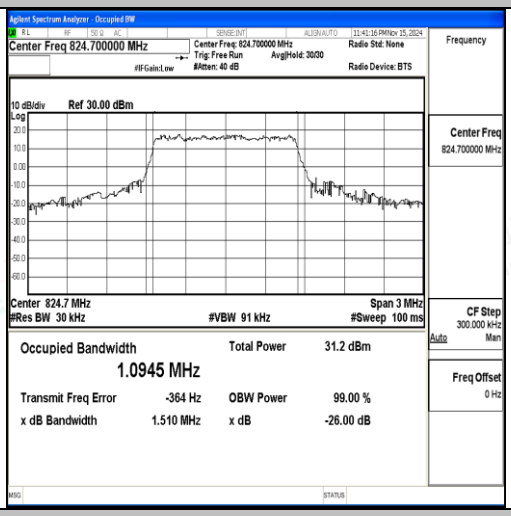
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.1027	1.288	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0945	1.510	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0962	1.308	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1039	1.301	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0971	1.299	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.1025	1.334	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7154	3.089	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.7029	3.073	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7131	3.181	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7130	3.210	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7237	3.133	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7189	3.230	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5252	5.231	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5250	5.293	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5271	5.421	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5394	5.432	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5223	5.302	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5553	5.421	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9659	10.13	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9653	10.06	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.0239	10.15	PASS
Band5	10MHz	16QAM	20525	50RB#0	9.0355	10.53	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9724	9.929	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9946	10.08	PASS

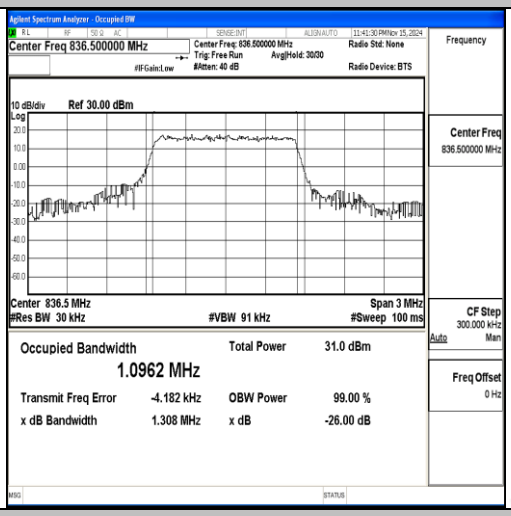
Test Graphs



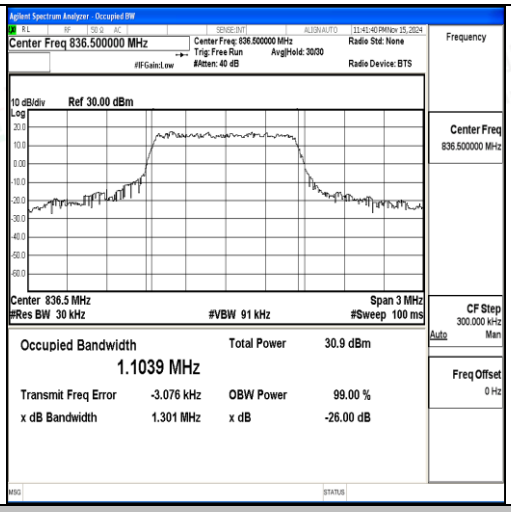
Band5-1.4MHz-QPSK-20407-6RB#0-PASS



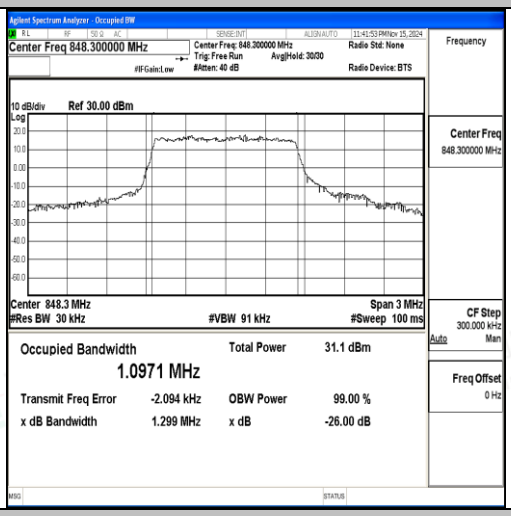
Band5-1.4MHz-16QAM-20407-6RB#0-PASS



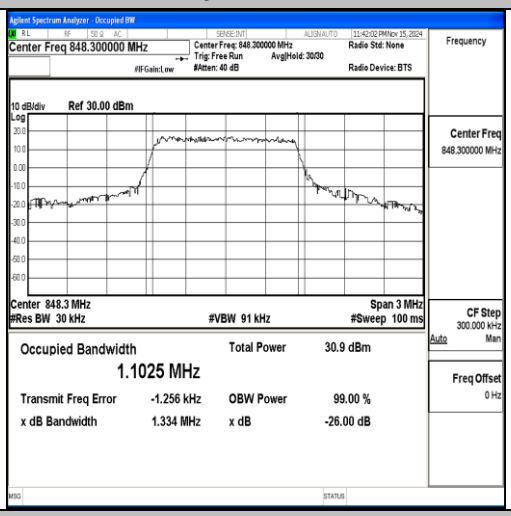
Band5-1.4MHz-QPSK-20525-6RB#0-PASS



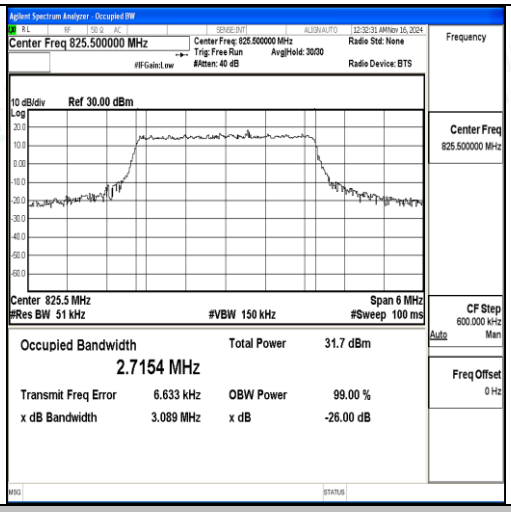
Band5-1.4MHz-16QAM-20525-6RB#0-PASS



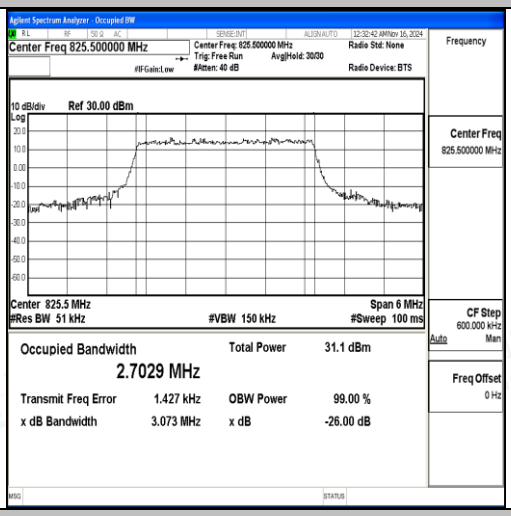
Band5-1.4MHz-QPSK-20643-6RB#0-PASS



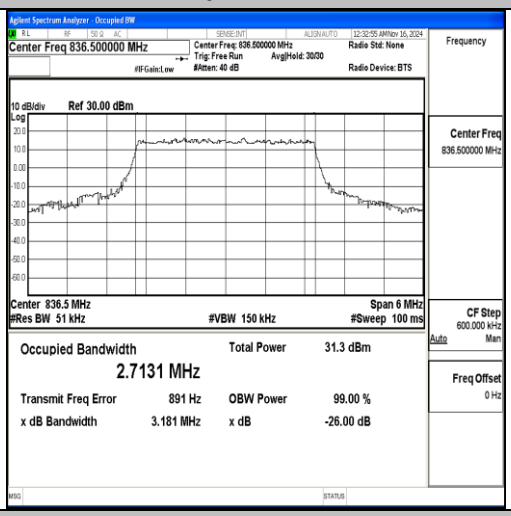
Band5-1.4MHz-16QAM-20643-6RB#0-PASS



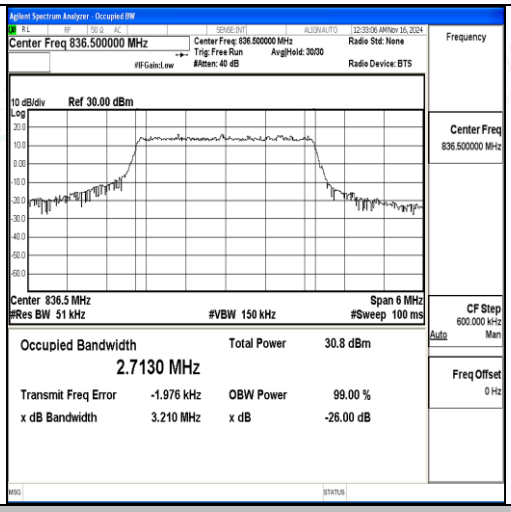
Band5-3MHz-QPSK-20415-15RB#0-PASS



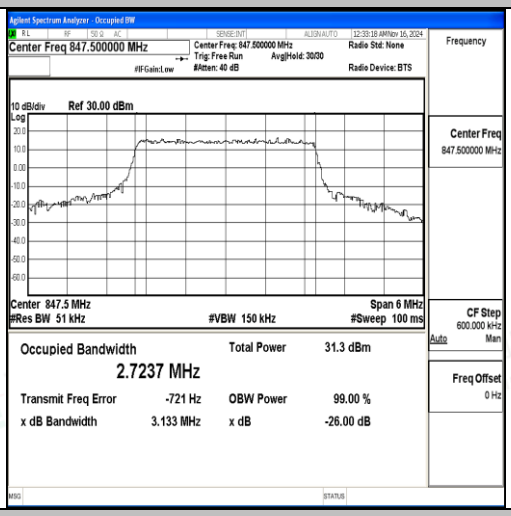
Band5-3MHz-16QAM-20415-15RB#0-PASS



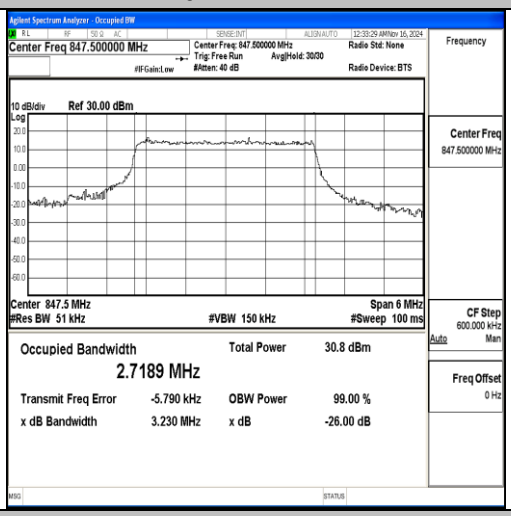
Band5-3MHz-QPSK-20525-15RB#0-PASS



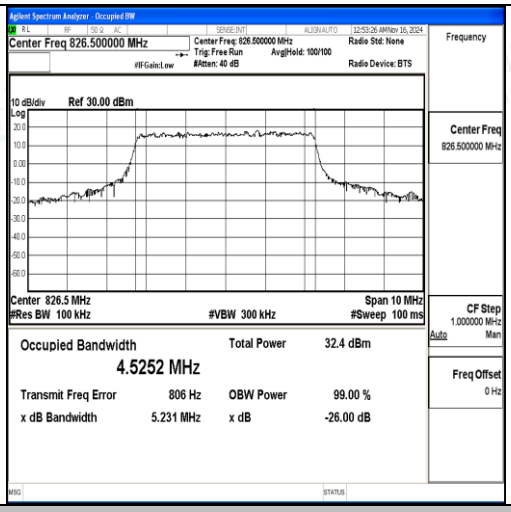
Band5-3MHz-16QAM-20525-15RB#0-PASS



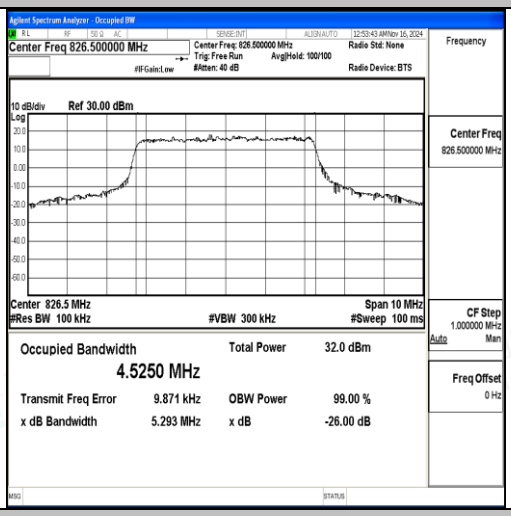
Band5-3MHz-QPSK-20635-15RB#0-PASS



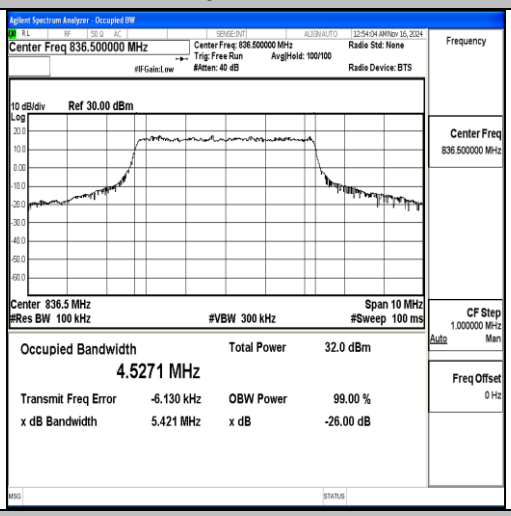
Band5-3MHz-16QAM-20635-15RB#0-PASS



Band5-5MHz-QPSK-20425-25RB#0-PASS



Band5-5MHz-16QAM-20425-25RB#0-PASS



Band5-5MHz-QPSK-20525-25RB#0-PASS