

FCC LTE Band Test Data

FCC ID : 2BFI8-TIQMINIM5

Company: : Jinan Ant Zhonglian Information Technology Co., Ltd.

EUT : TIQ mini M5

Model Number : TIQ mini M5

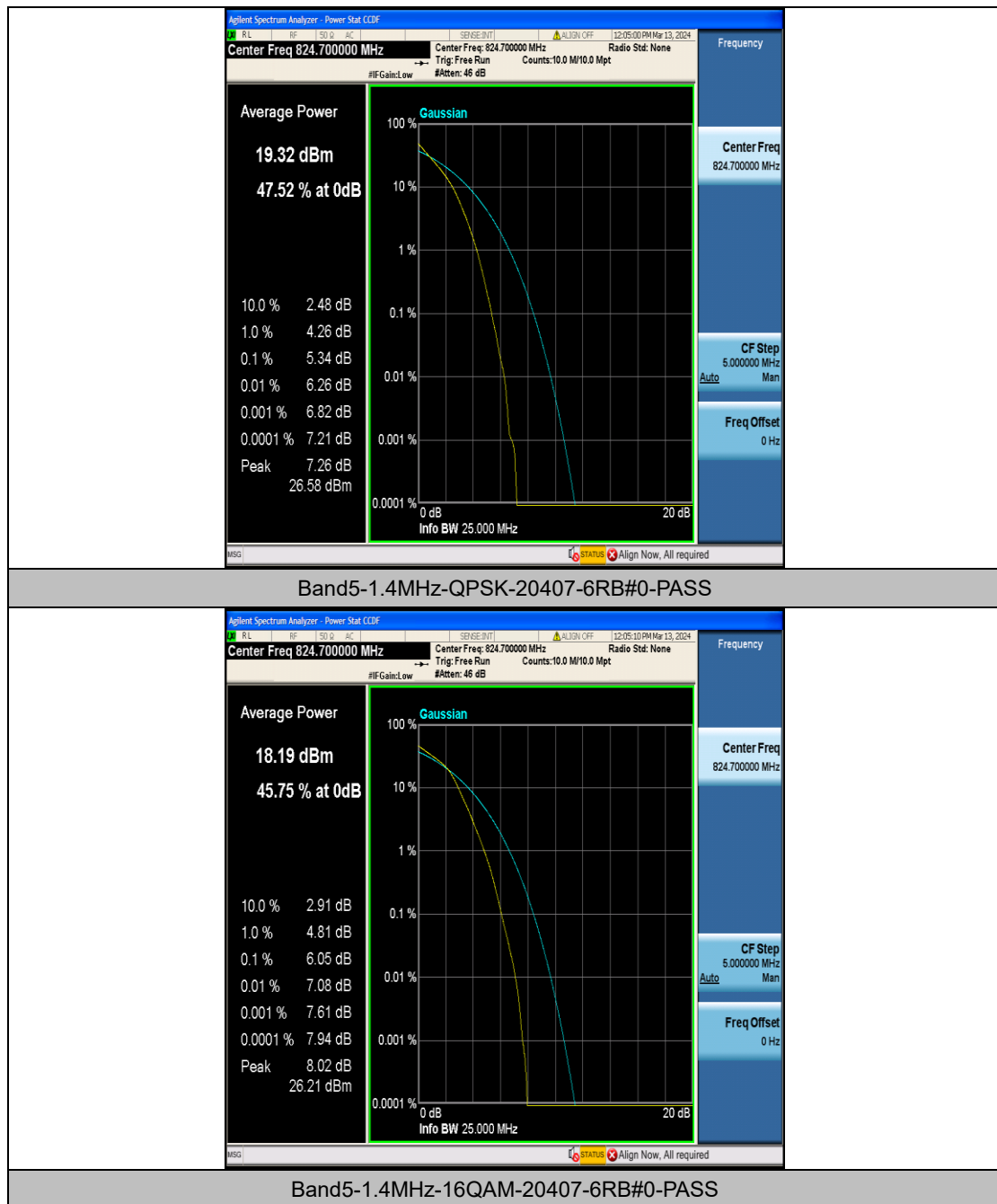
Reviewed By : Eric Wang

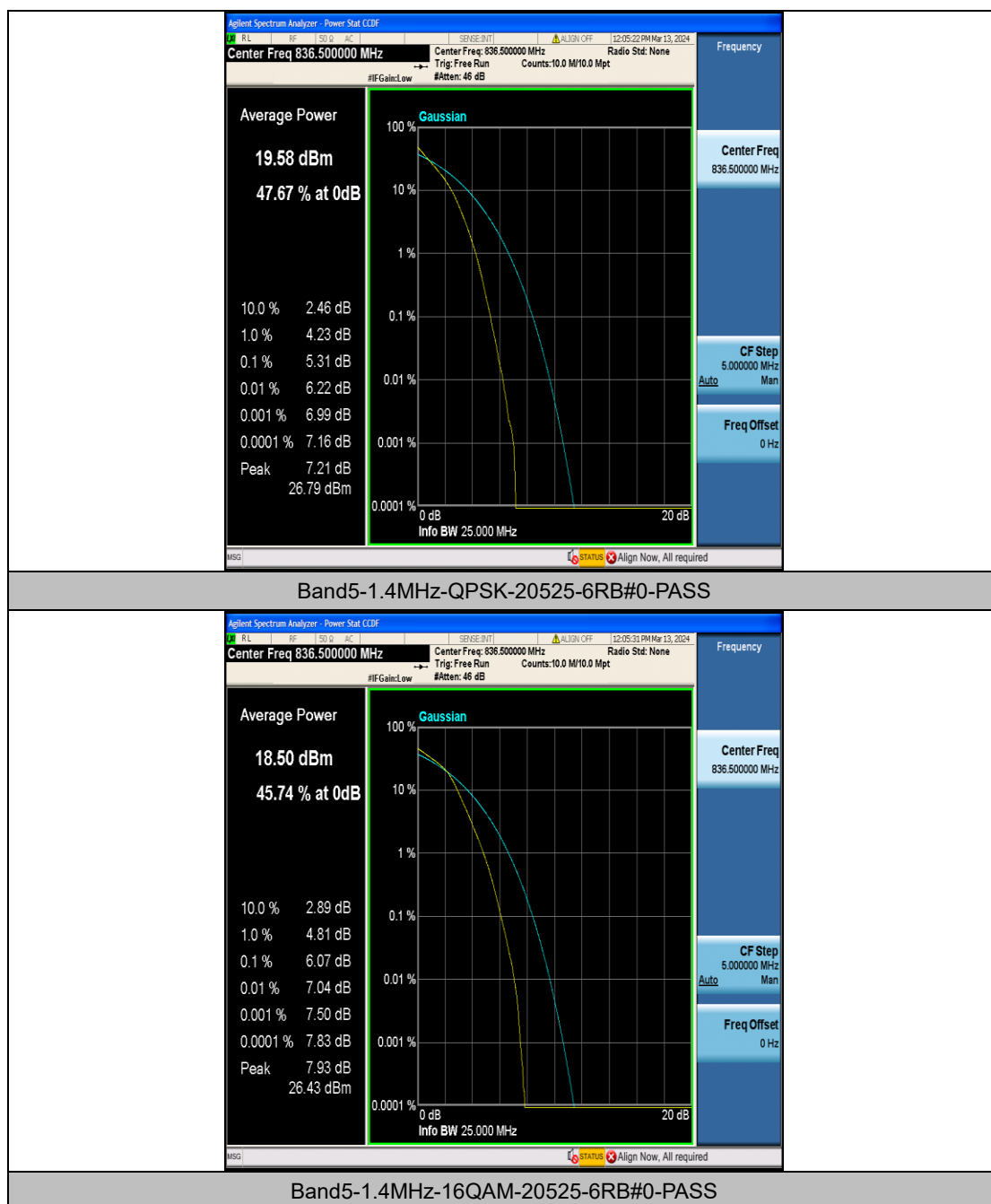
Appendix B: Peak-to-Average Ratio(CCDF)

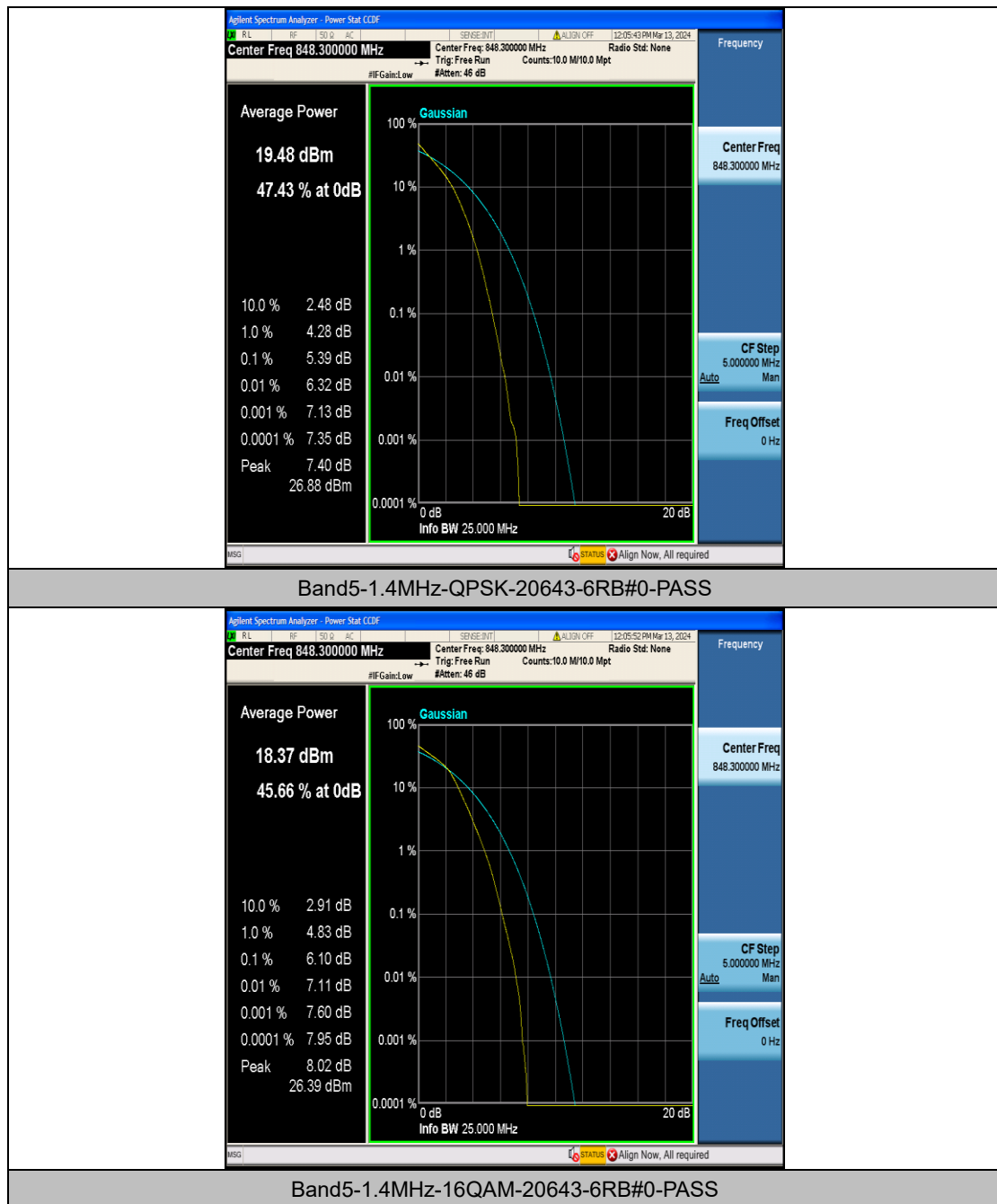
Test Result

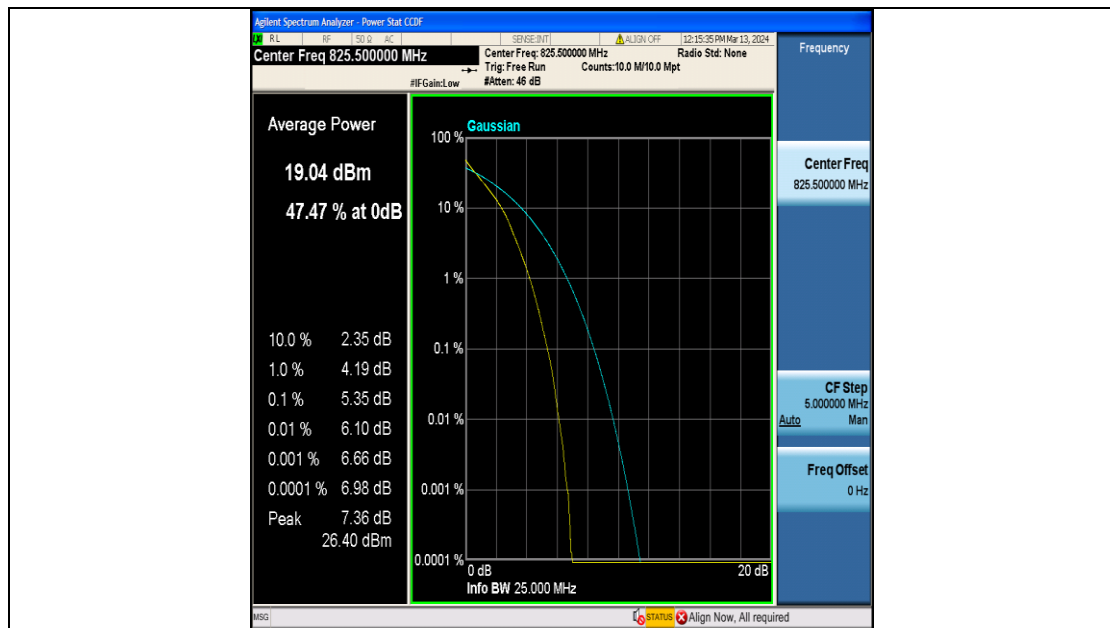
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	5.34	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.05	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.31	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.07	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.39	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.10	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.35	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.11	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.31	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.06	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.35	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.08	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.44	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.09	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.44	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.08	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.39	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.04	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.51	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.13	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.48	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.16	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.35	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.06	13	PASS

Test Graphs

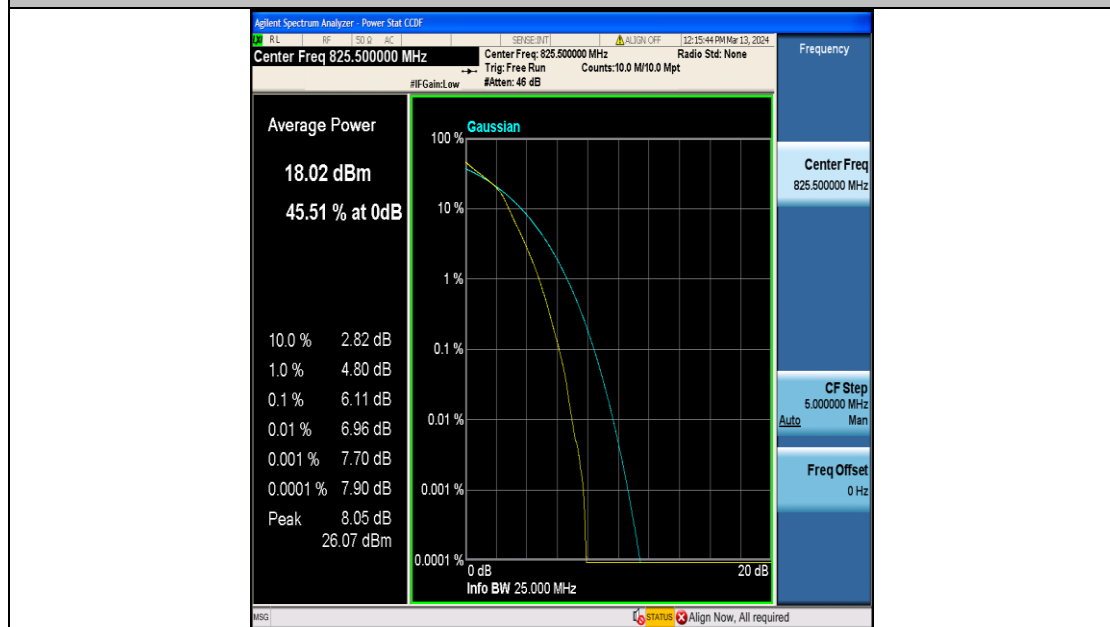




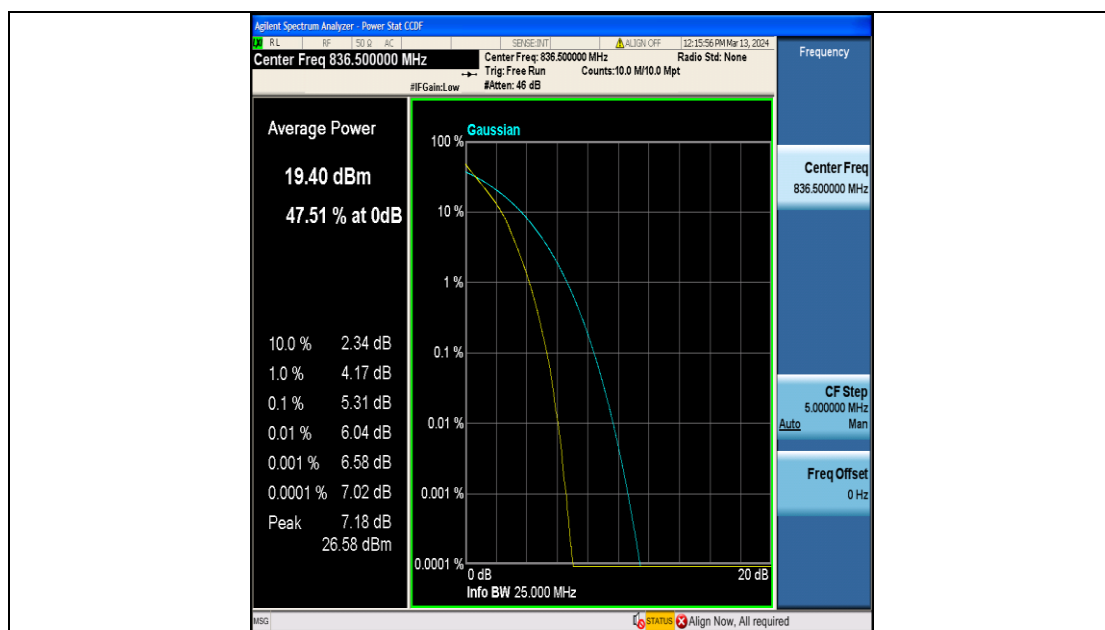




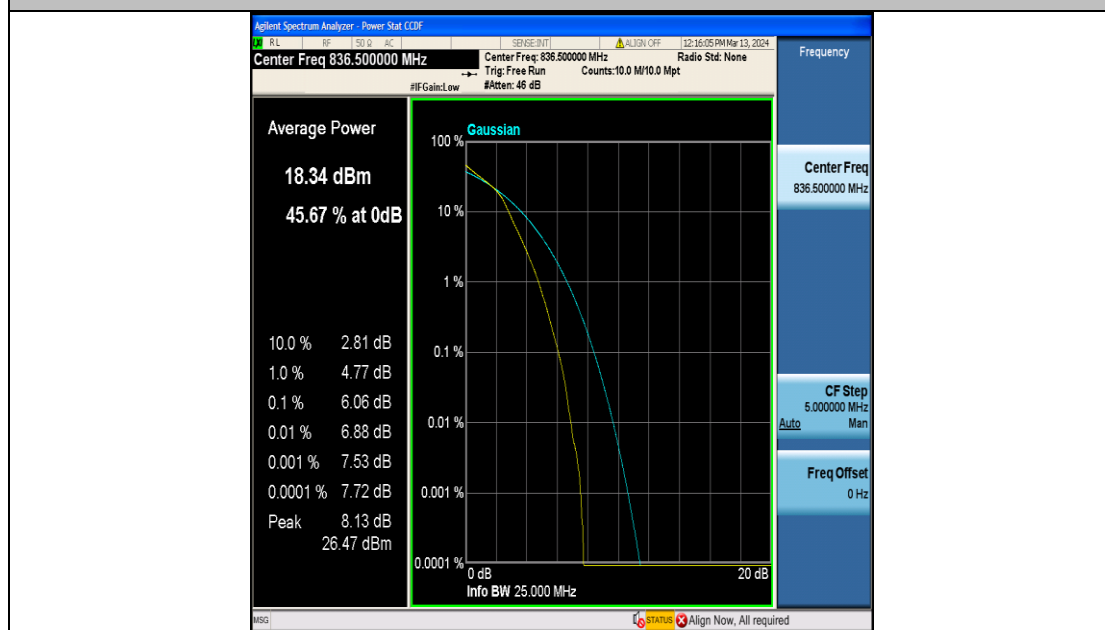
Band5-3MHz-QPSK-20415-15RB#0-PASS



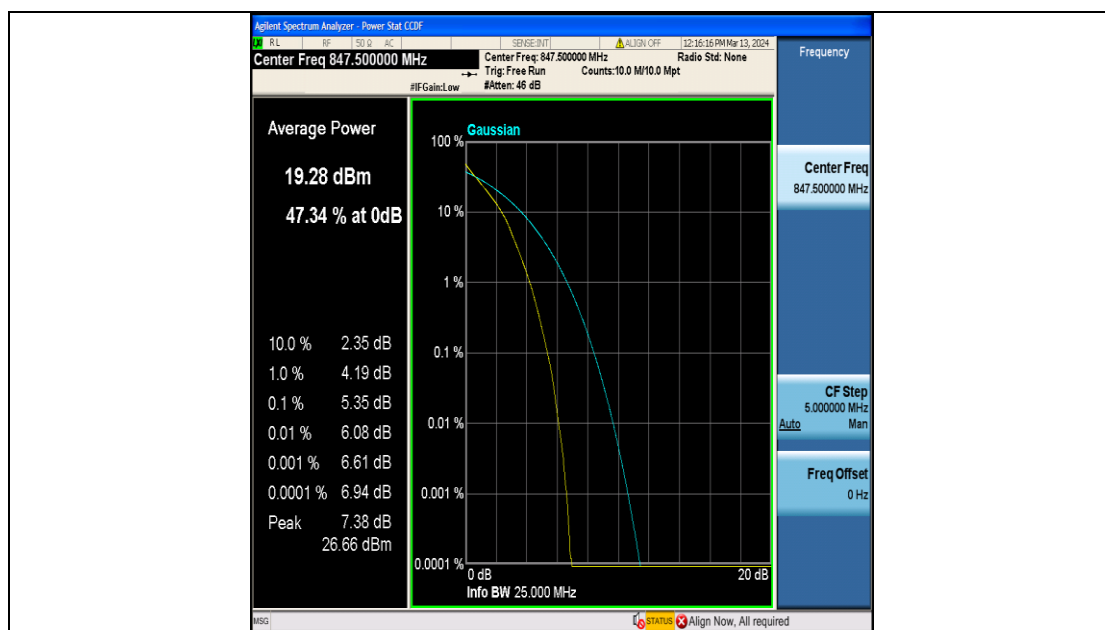
Band5-3MHz-16QAM-20415-15RB#0-PASS



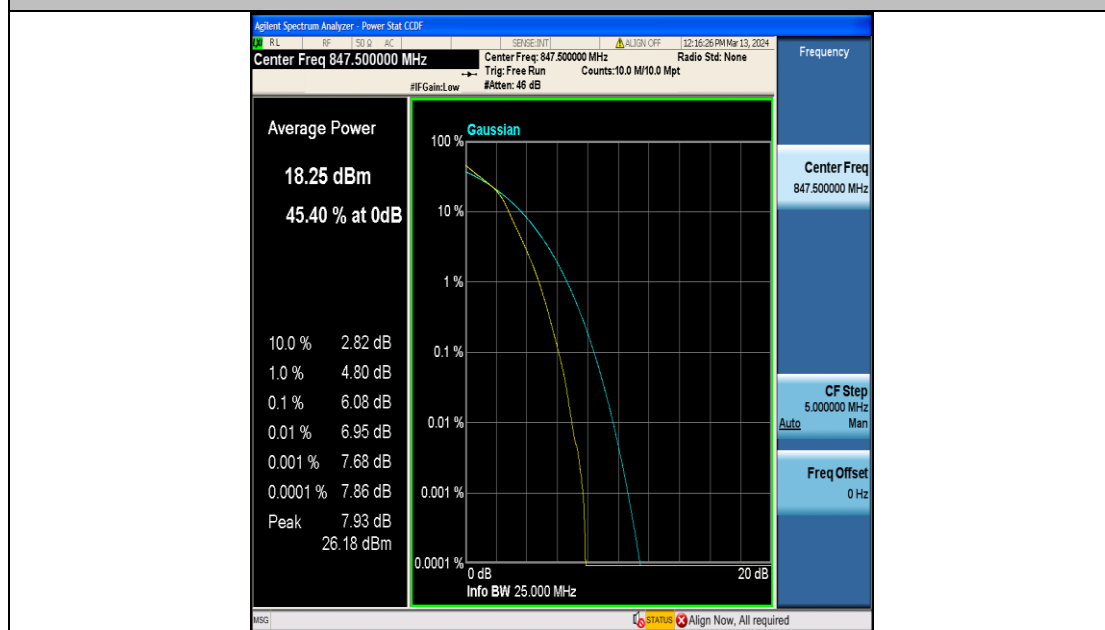
Band5-3MHz-QPSK-20525-15RB#0-PASS



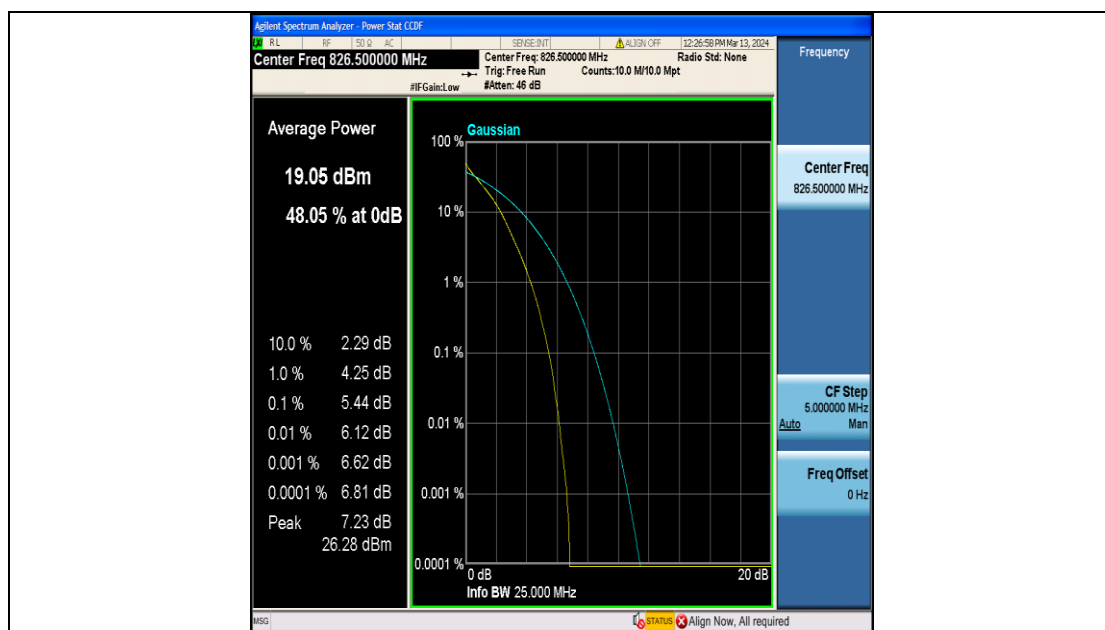
Band5-3MHz-16QAM-20525-15RB#0-PASS



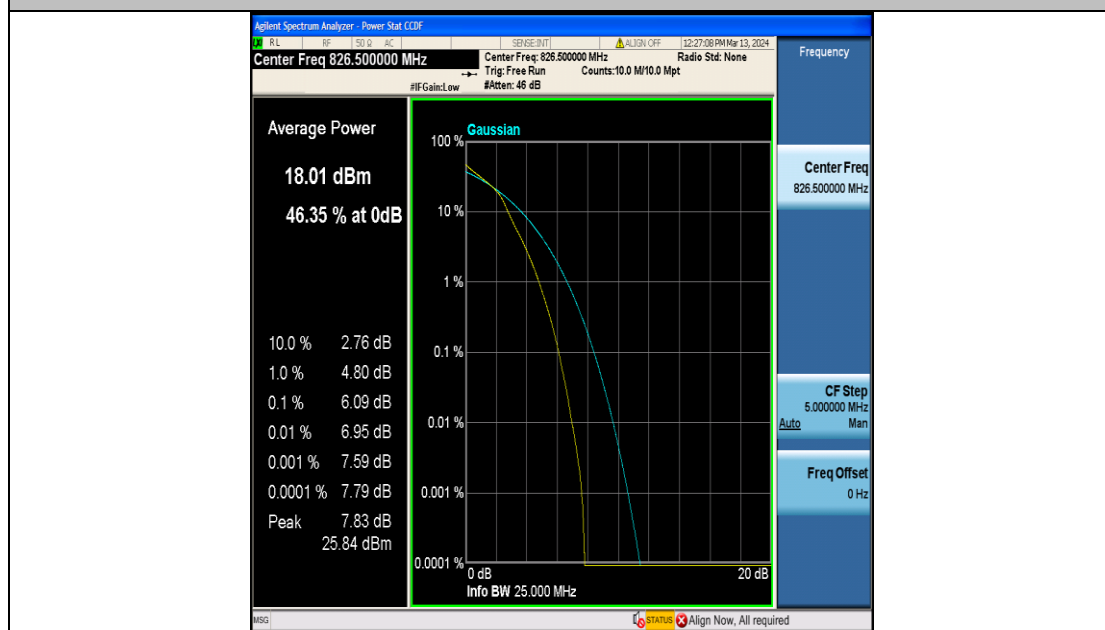
Band5-3MHz-QPSK-20635-15RB#0-PASS



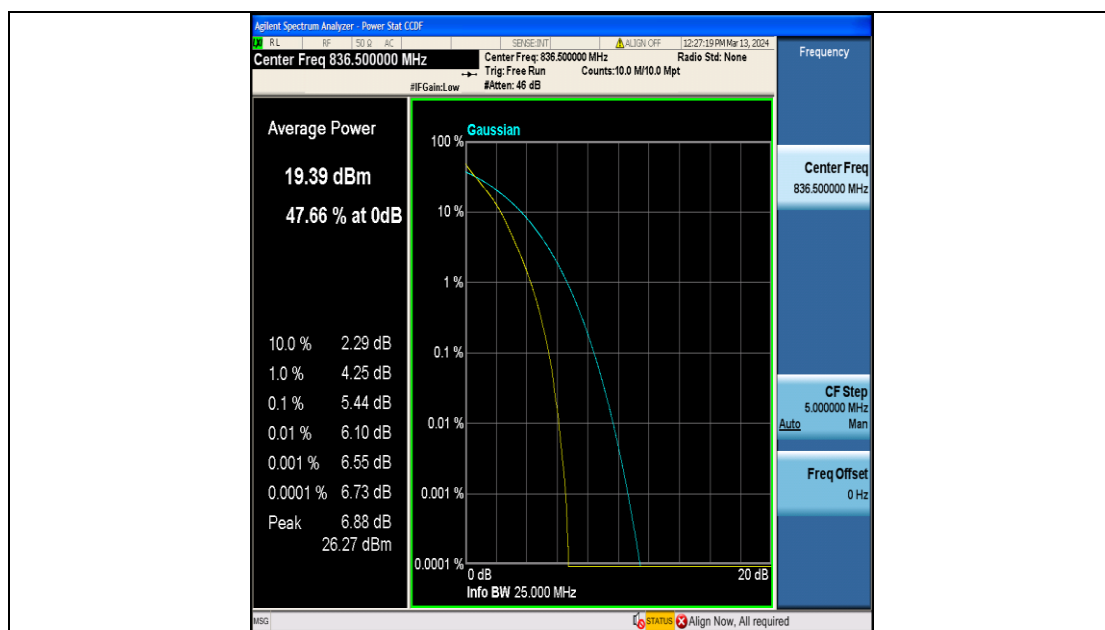
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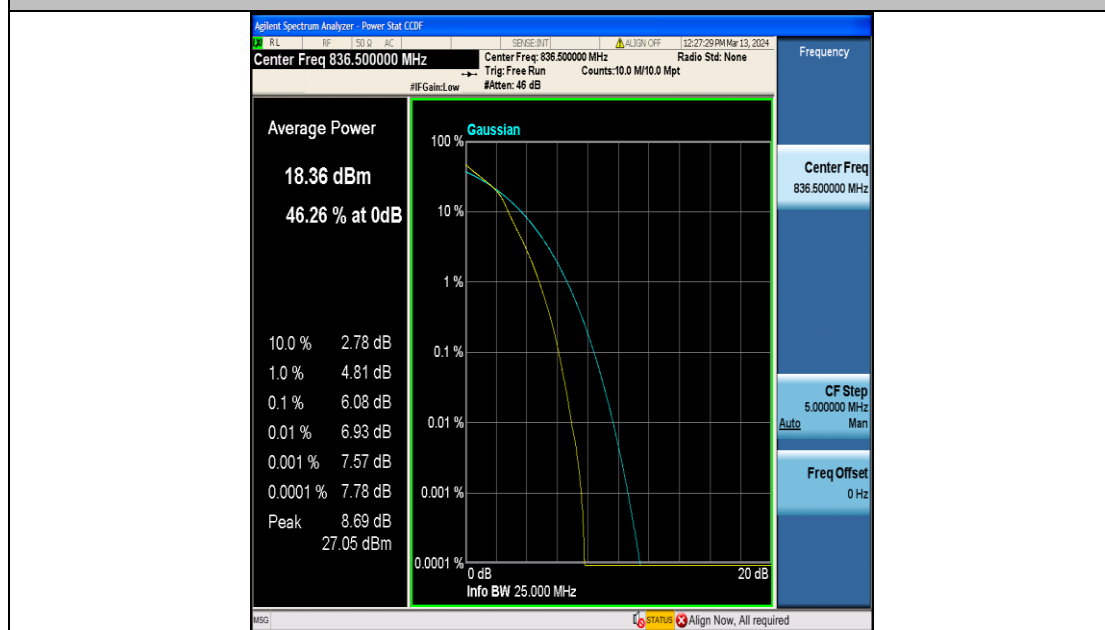
Band5-5MHz-QPSK-20425-25RB#0-PASS



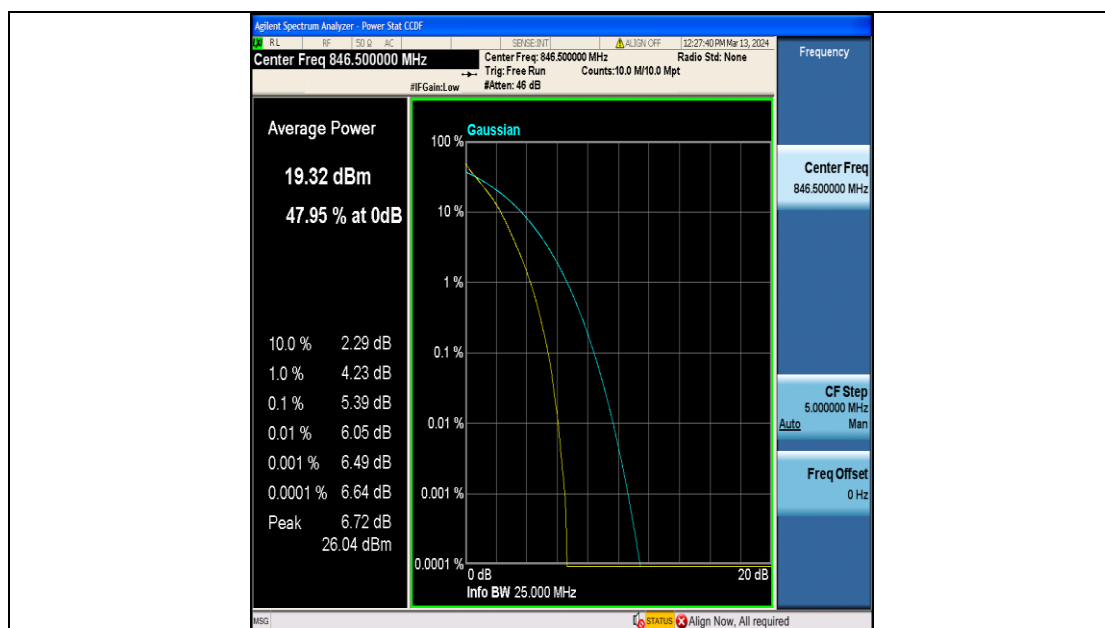
Band5-5MHz-16QAM-20425-25RB#0-PASS



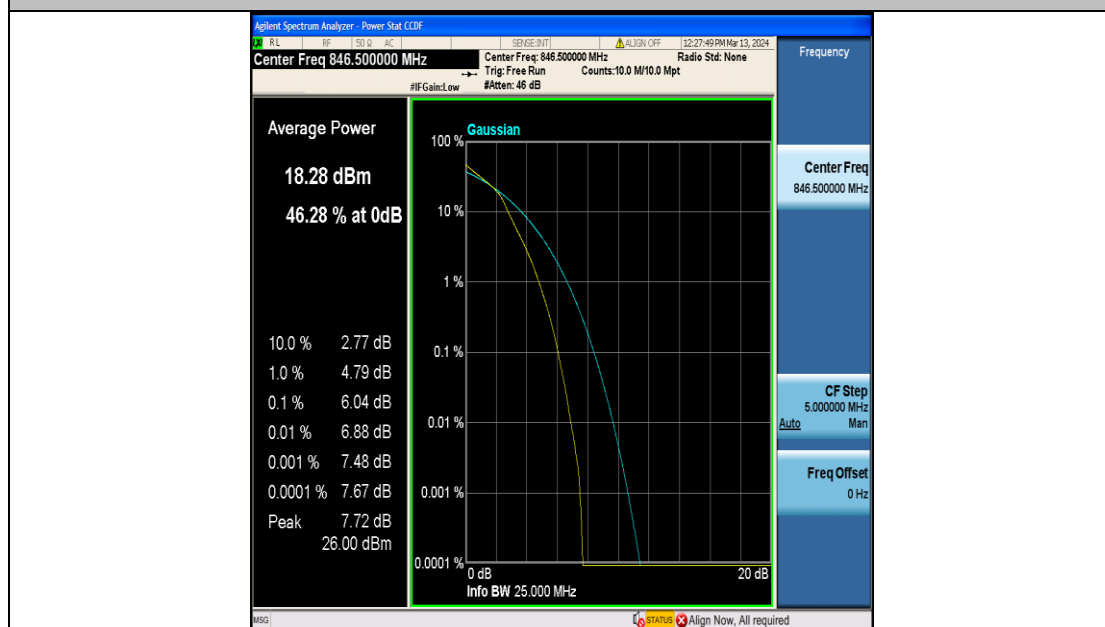
Band5-5MHz-QPSK-20525-25RB#0-PASS



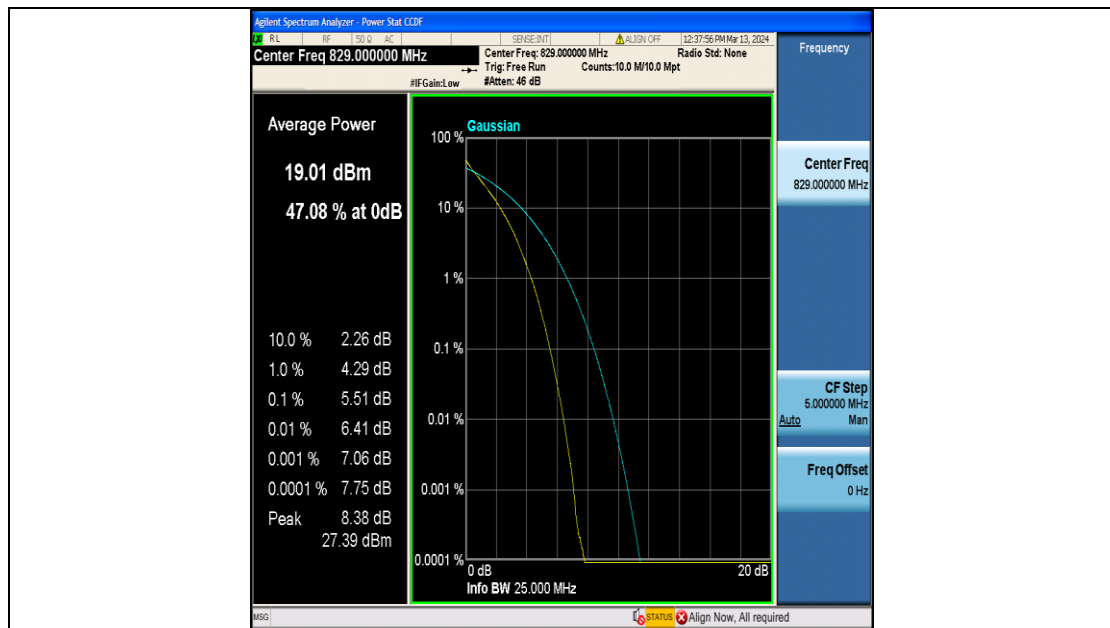
Band5-5MHz-16QAM-20525-25RB#0-PASS



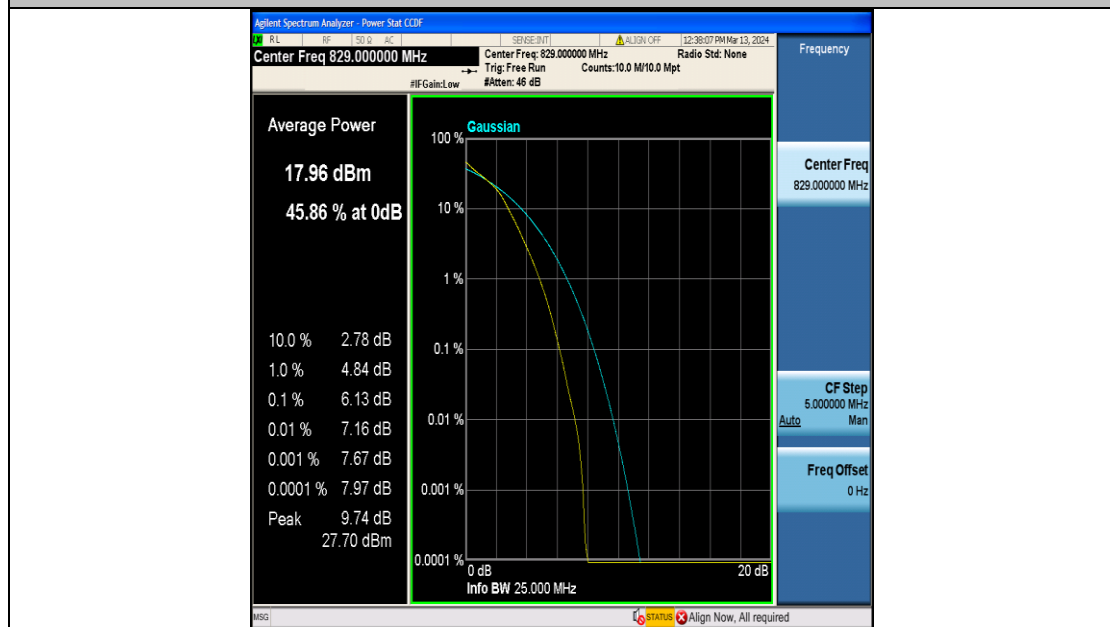
Band5-5MHz-QPSK-20625-25RB#0-PASS



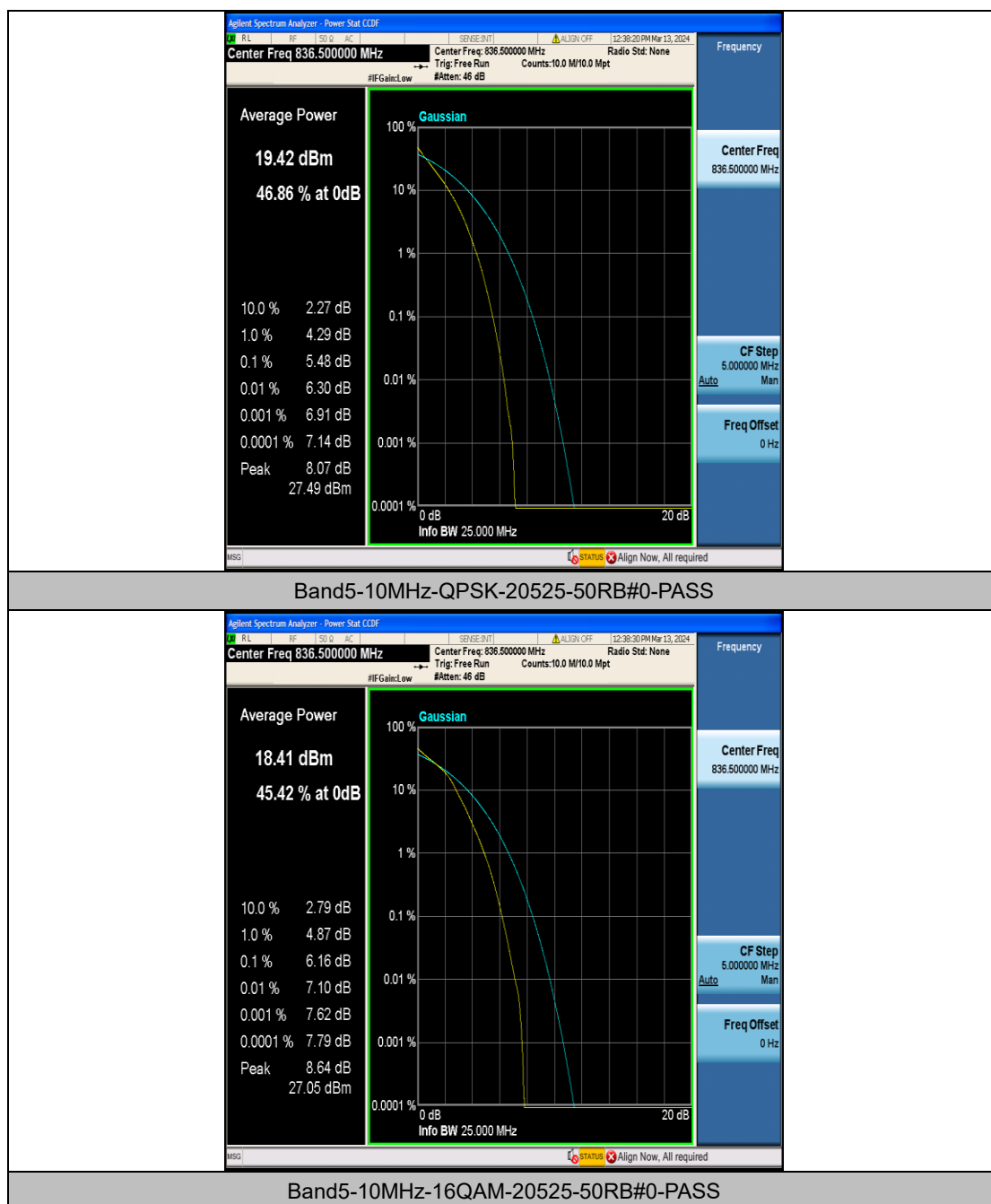
Band5-5MHz-16QAM-20625-25RB#0-PASS

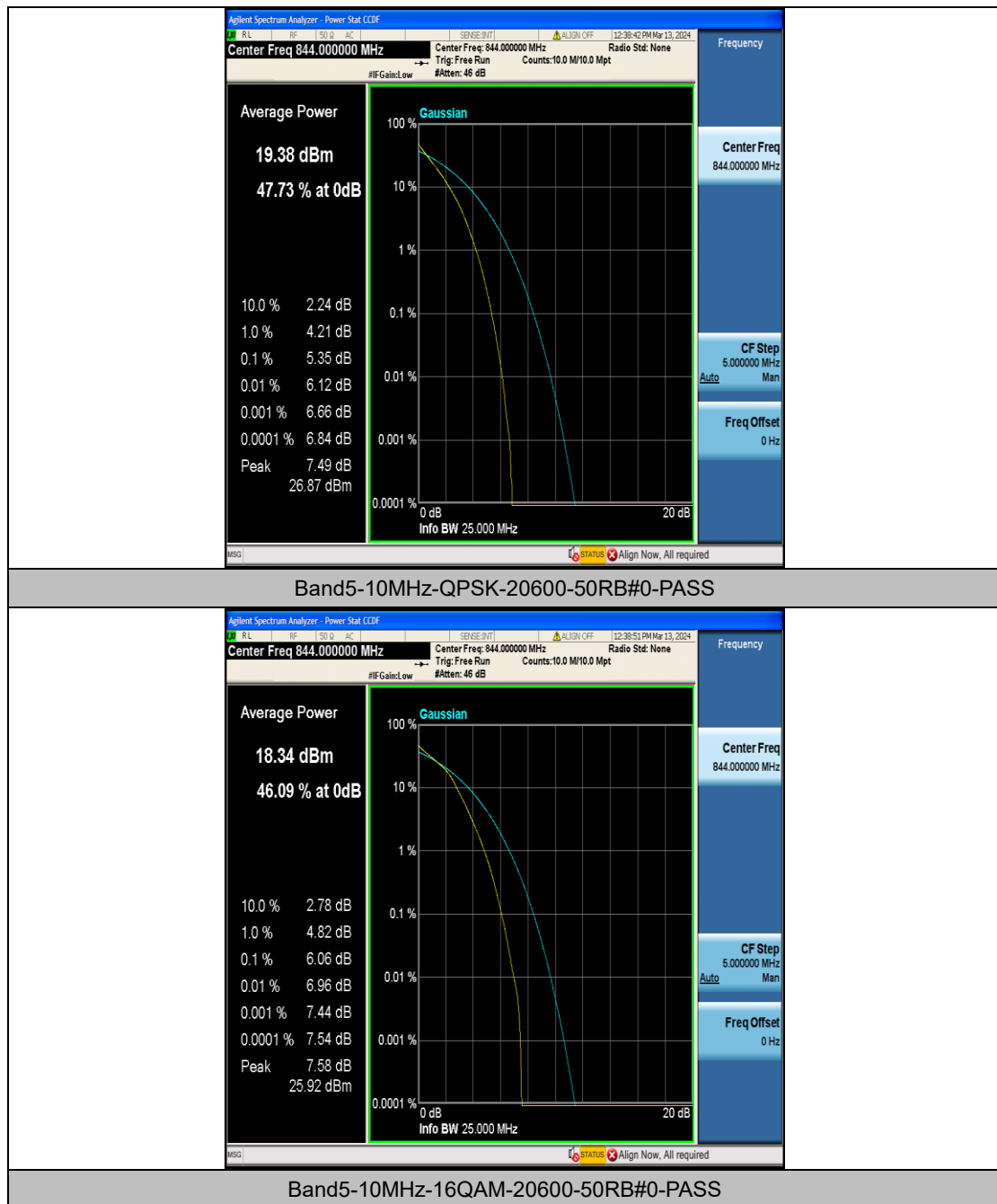


Band5-10MHz-QPSK-20450-50RB#0-PASS



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



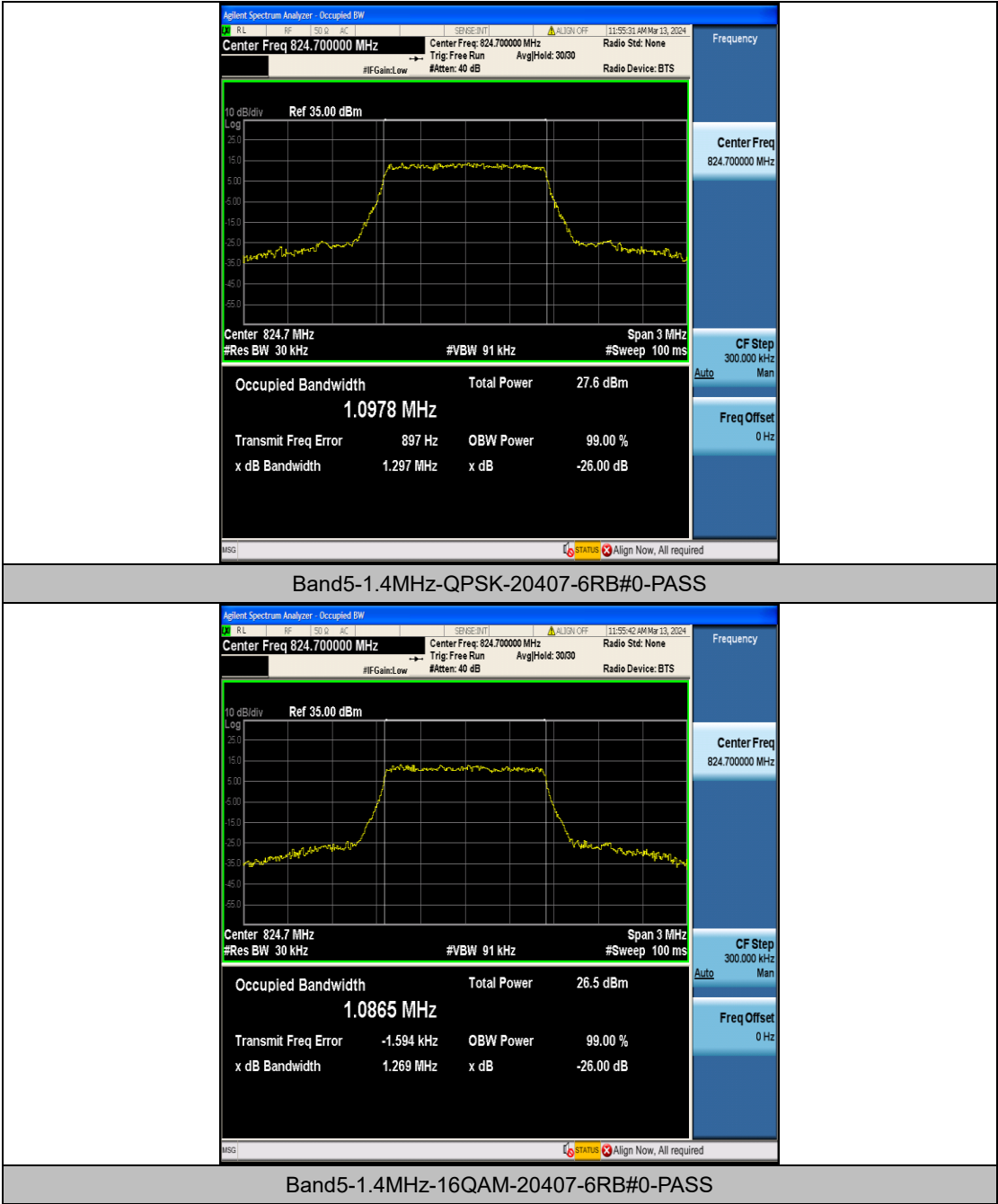


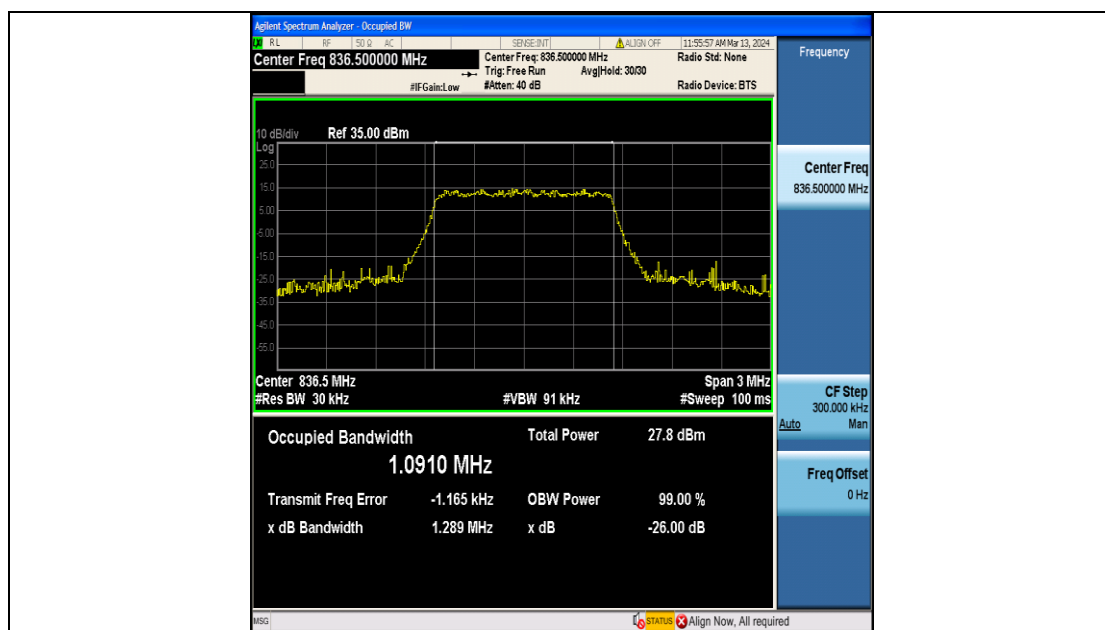
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

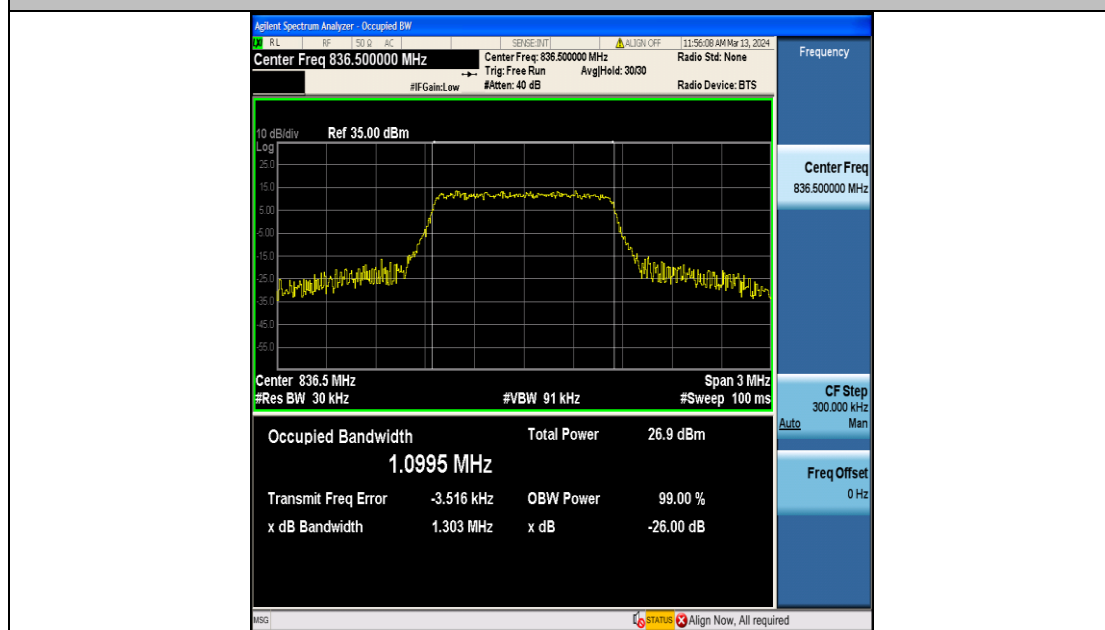
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0978	1.297	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0865	1.269	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0910	1.289	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0995	1.303	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0906	1.287	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0989	1.314	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6881	2.885	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6783	2.897	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6880	2.893	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6795	2.912	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6893	2.923	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6810	2.905	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4954	5.464	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4850	5.183	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4959	4.948	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4960	5.482	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4925	5.077	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4852	4.901	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9951	10.97	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9794	10.19	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9829	9.799	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9868	10.62	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9866	9.797	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9845	9.734	PASS

Test Graphs

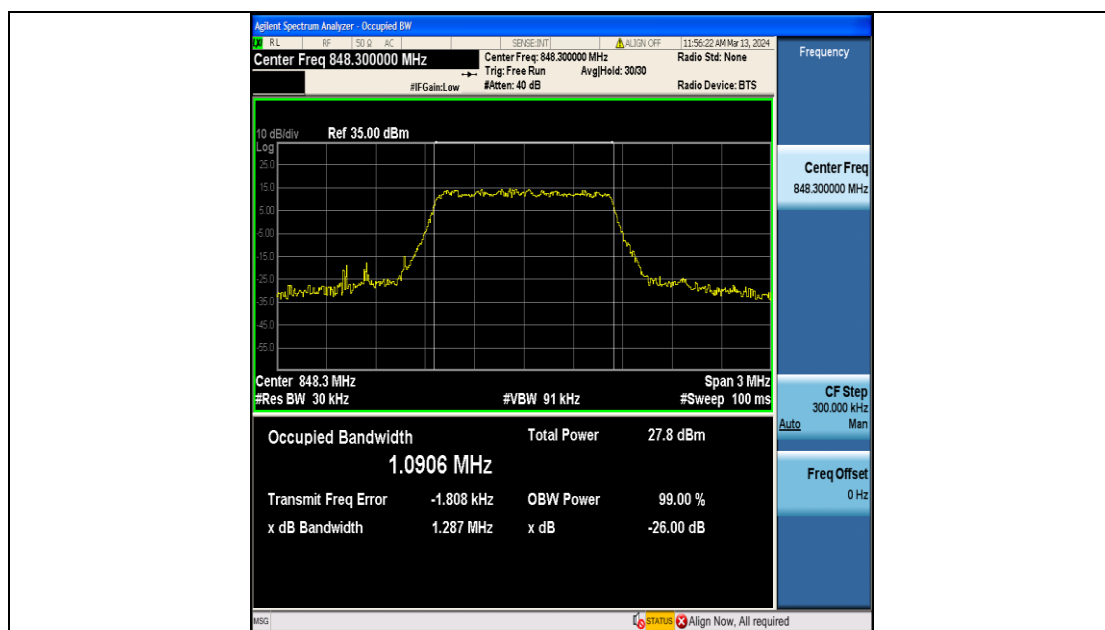




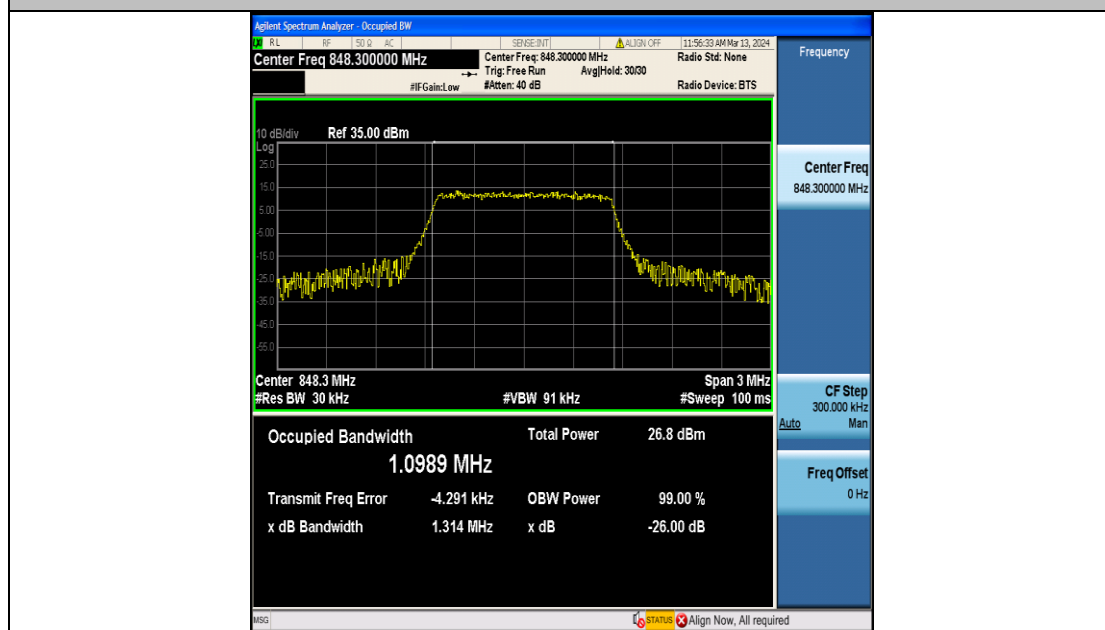
Band5-1.4MHz-QPSK-20525-6RB#0-PASS



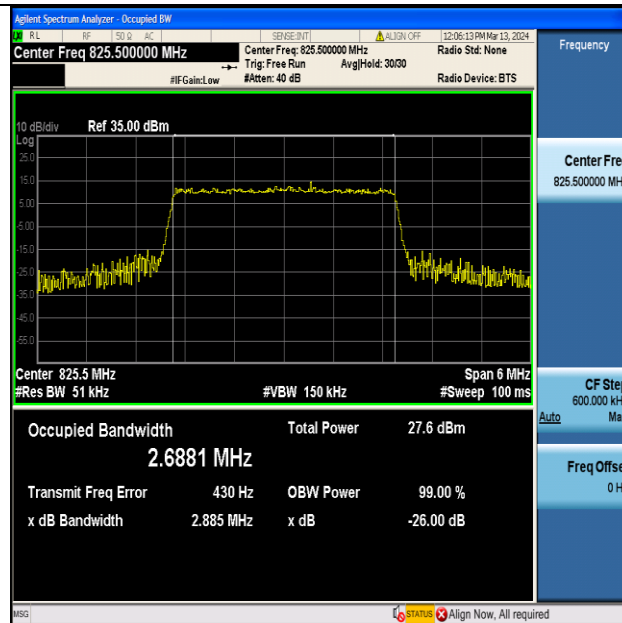
Band5-1.4MHz-16QAM-20525-6RB#0-PASS



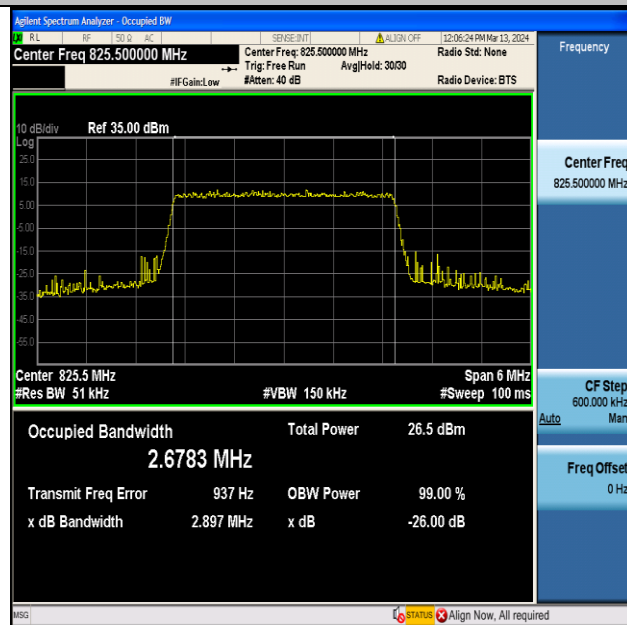
Band5-1.4MHz-QPSK-20643-6RB#0-PASS



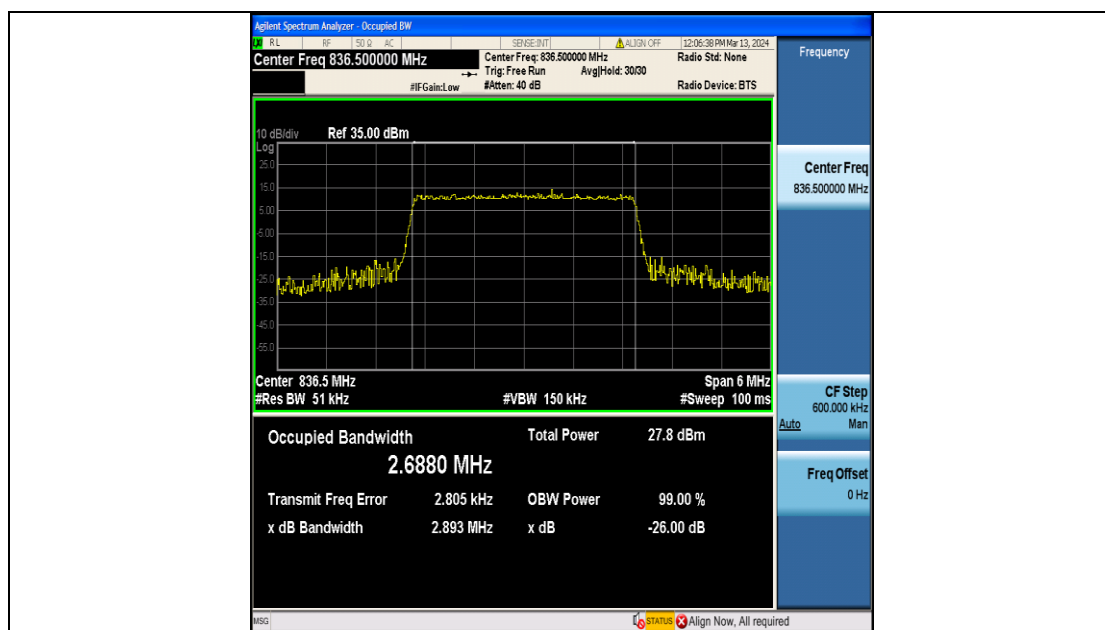
Band5-1.4MHz-16QAM-20643-6RB#0-PASS



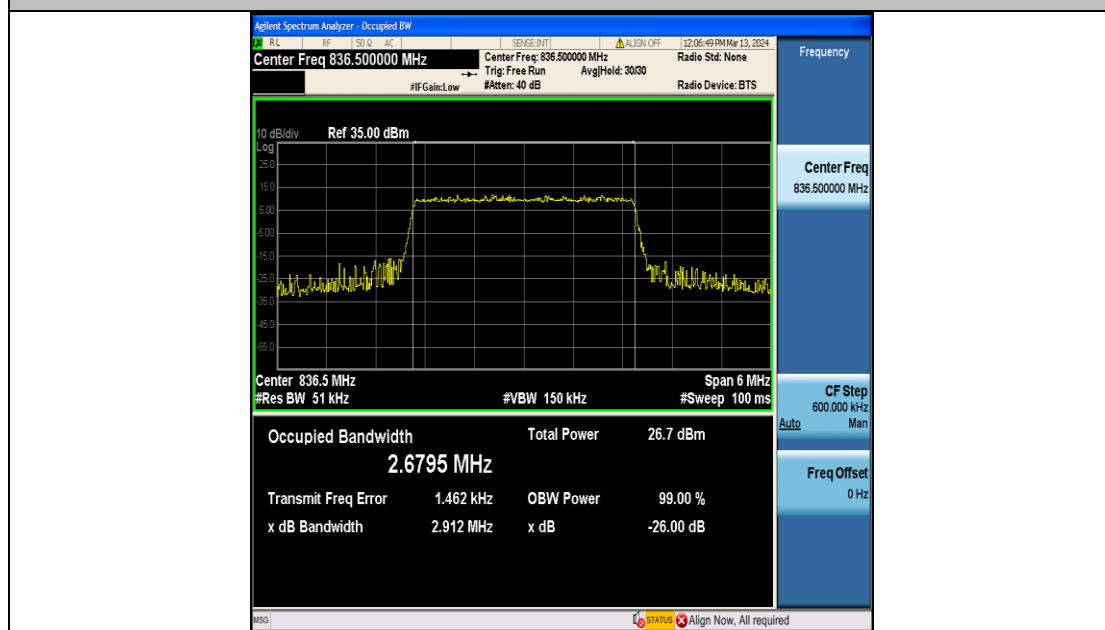
Band5-3MHz-QPSK-20415-15RB#0-PASS



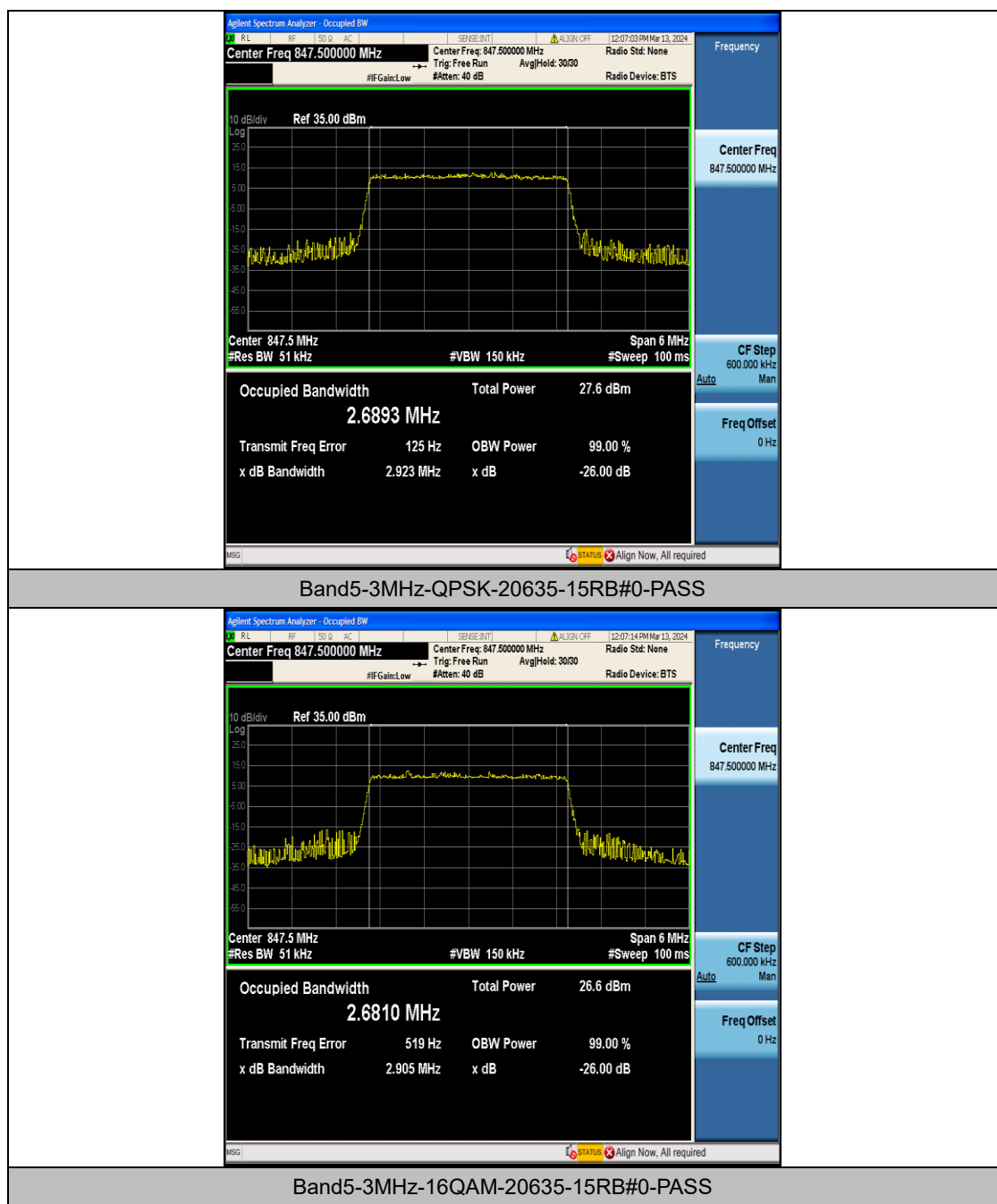
Band5-3MHz-16QAM-20415-15RB#0-PASS



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

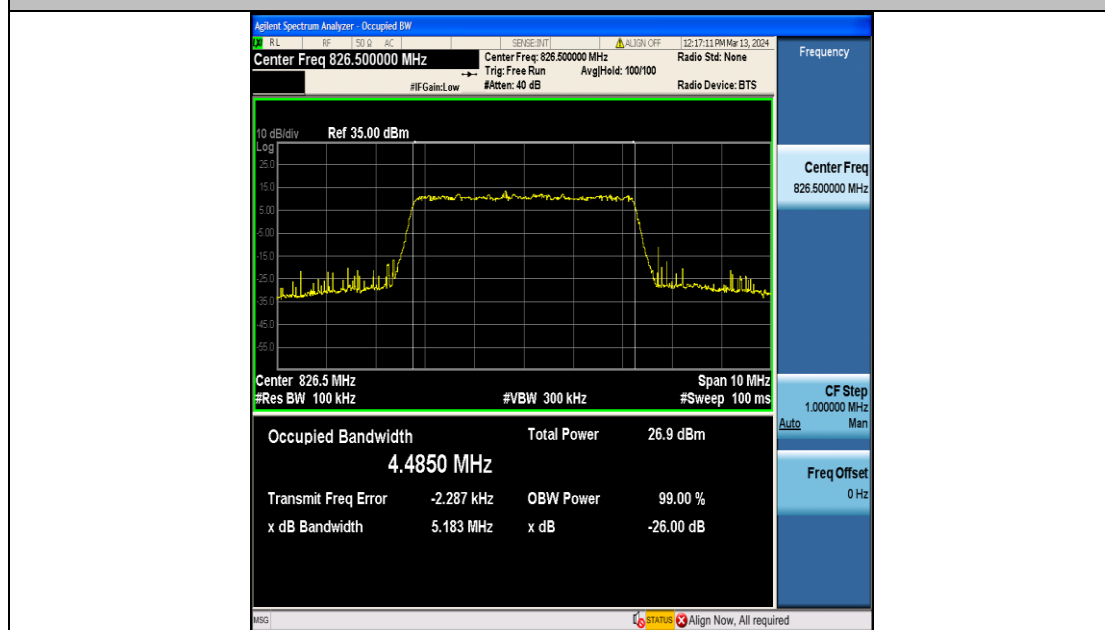


Band5-3MHz-16QAM-20525-15RB#0-PASS

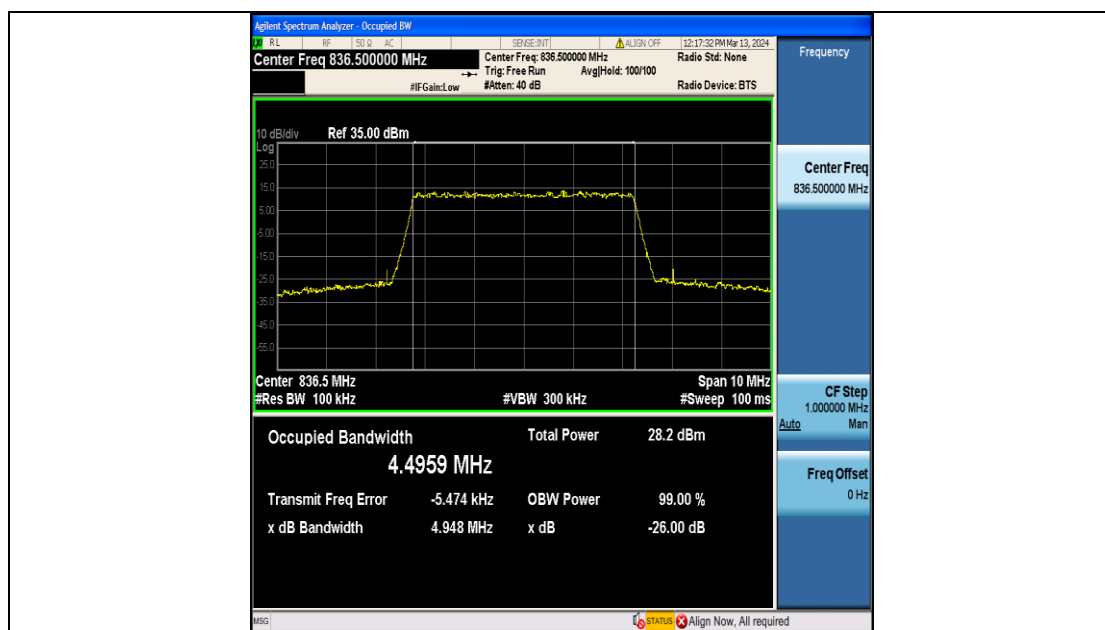




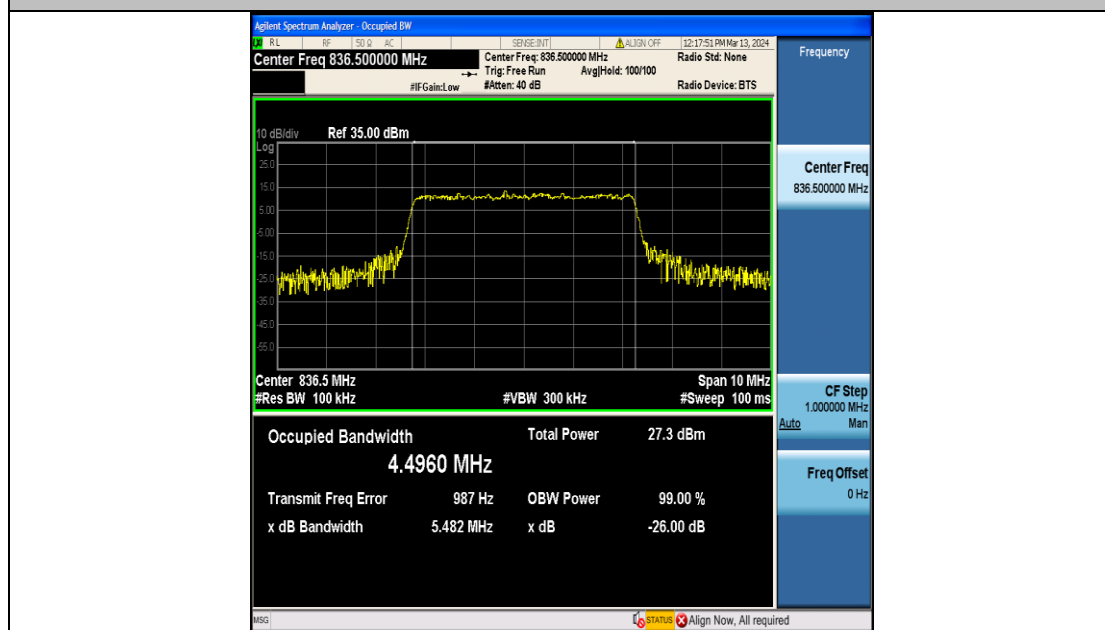
Band5-5MHz-QPSK-20425-25RB#0-PASS



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



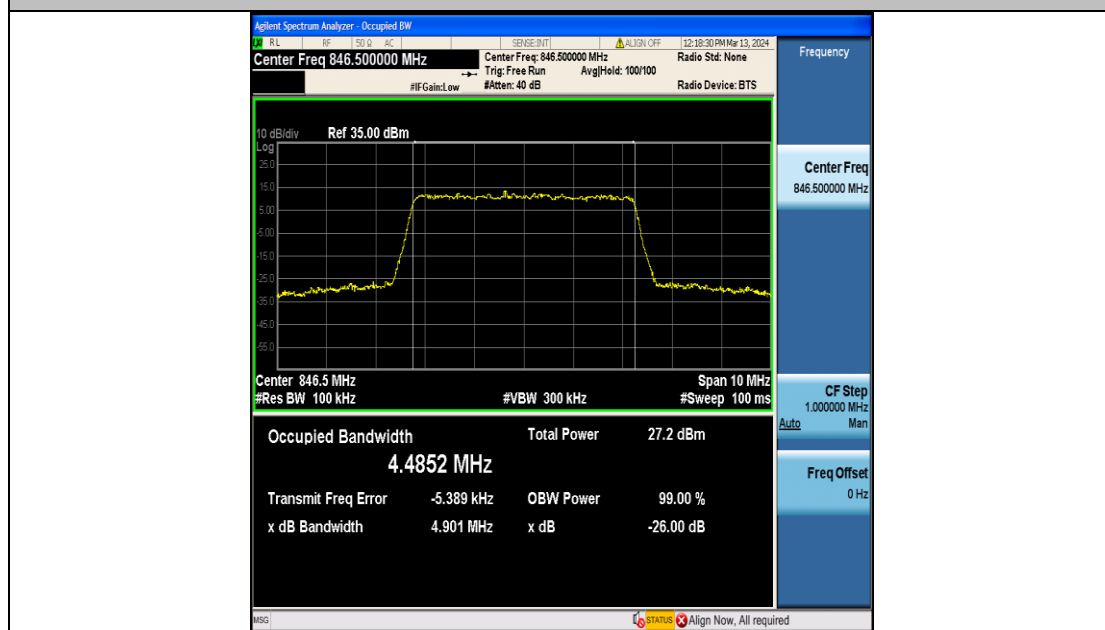
Band5-5MHz-QPSK-20525-25RB#0-PASS



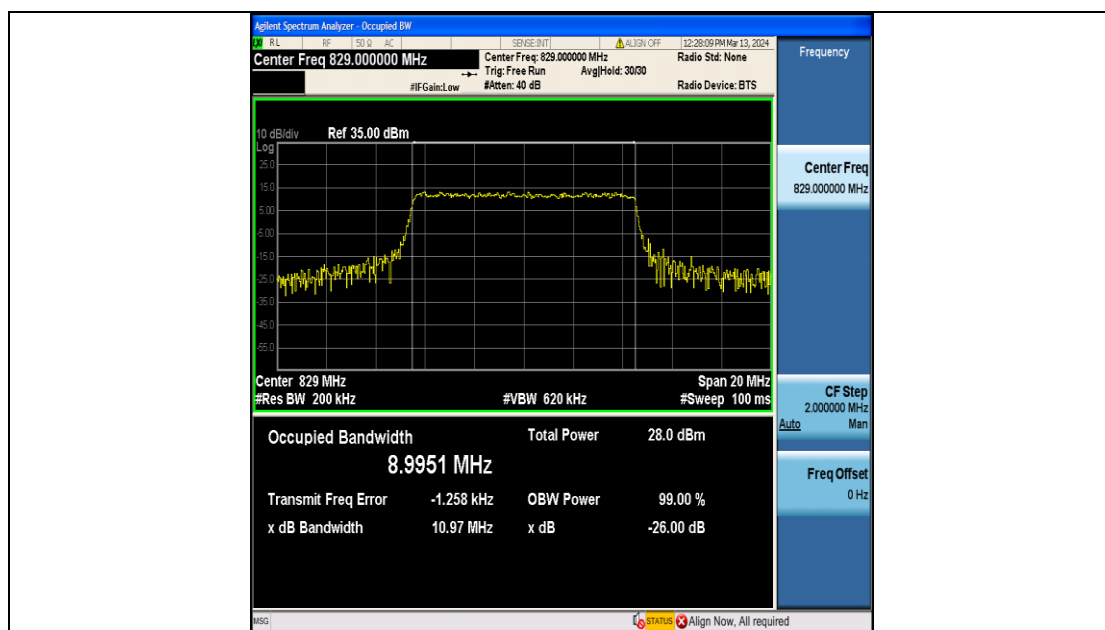
Band5-5MHz-16QAM-20525-25RB#0-PASS



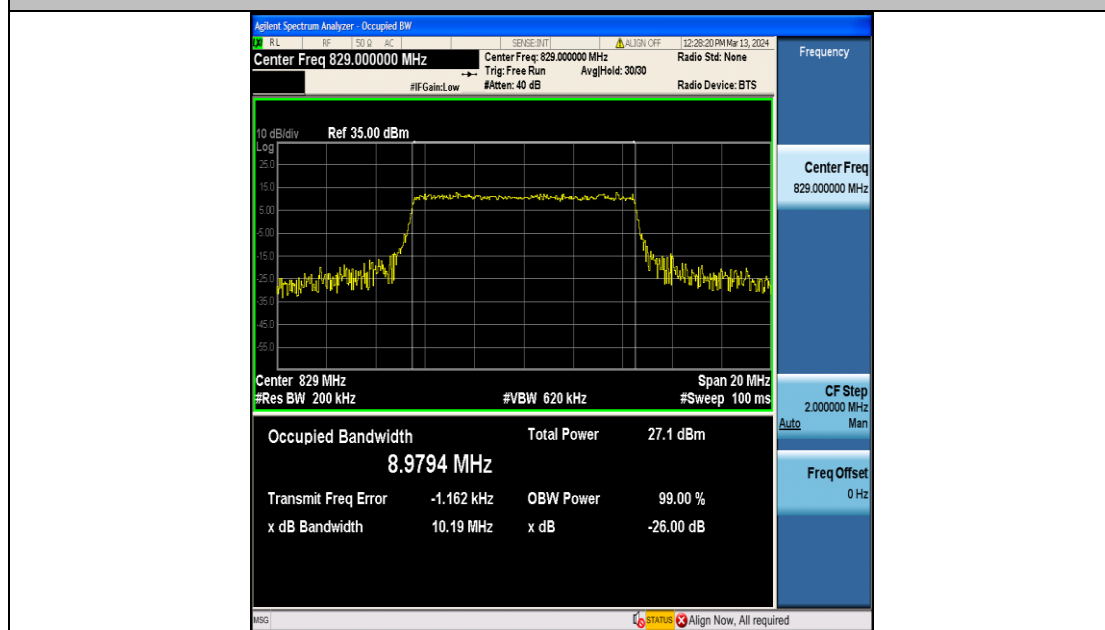
Band5-5MHz-QPSK-20625-25RB#0-PASS



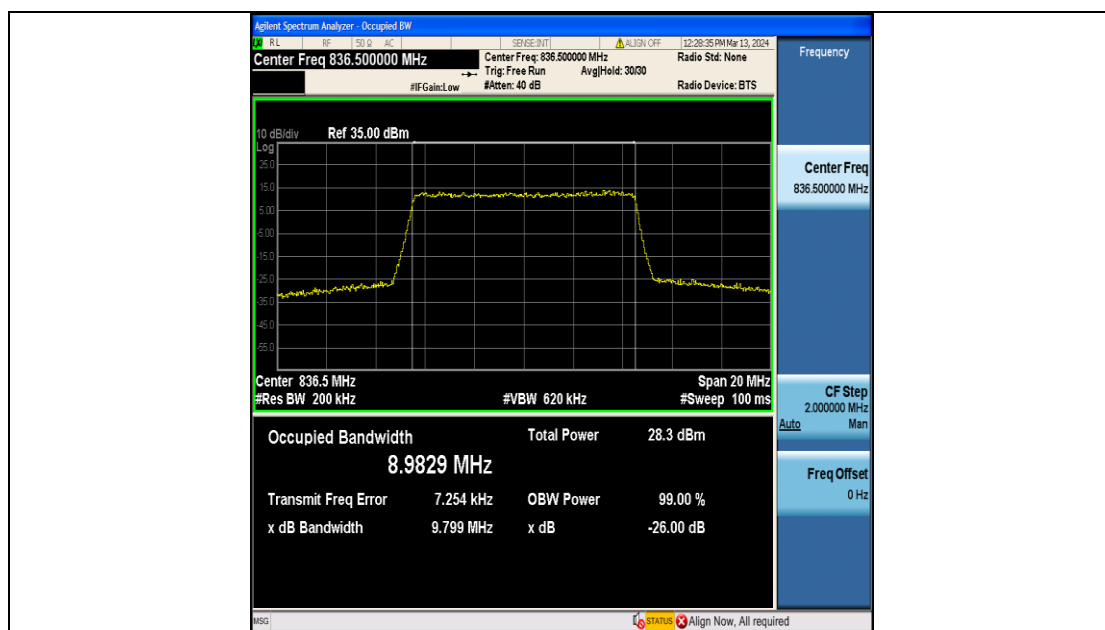
Band5-5MHz-16QAM-20625-25RB#0-PASS



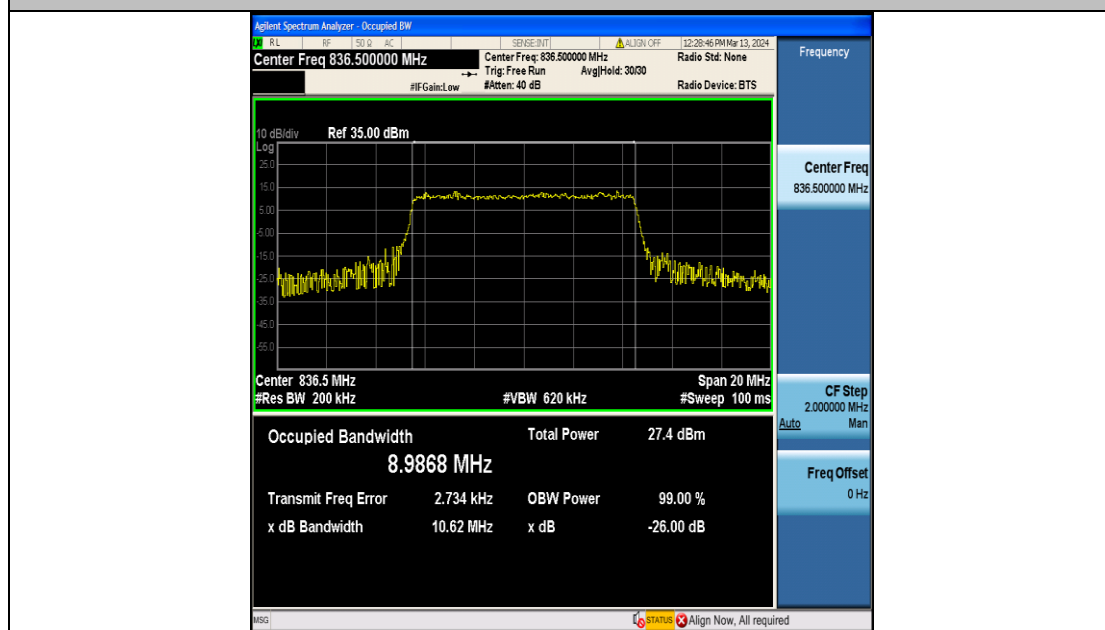
Band5-10MHz-QPSK-20450-50RB#0-PASS



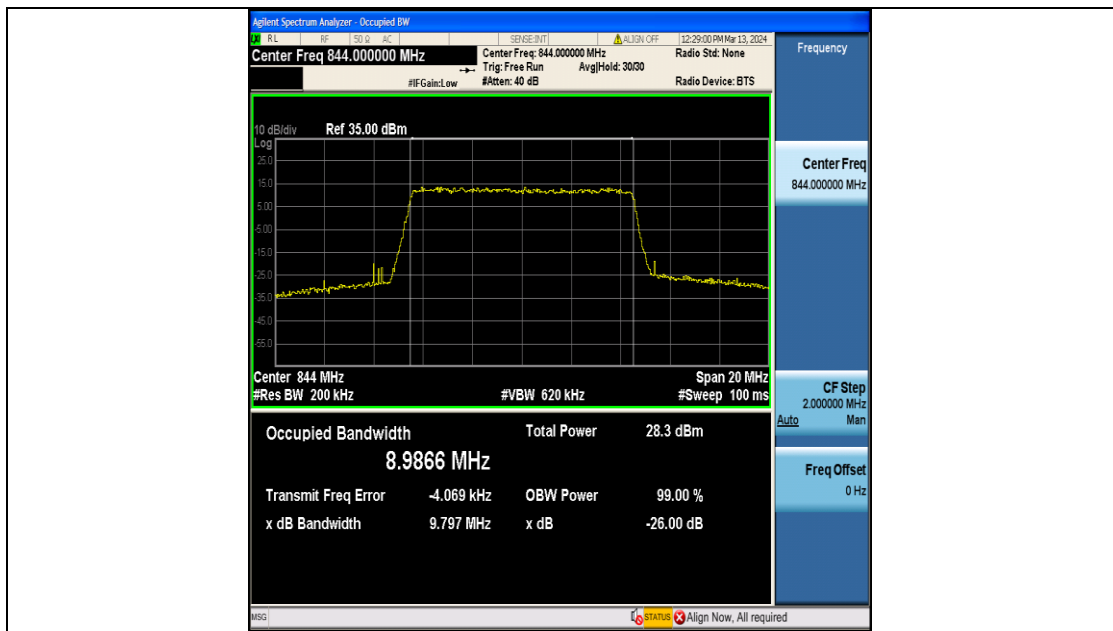
Band5-10MHz-16QAM-20450-50RB#0-PASS



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



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



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



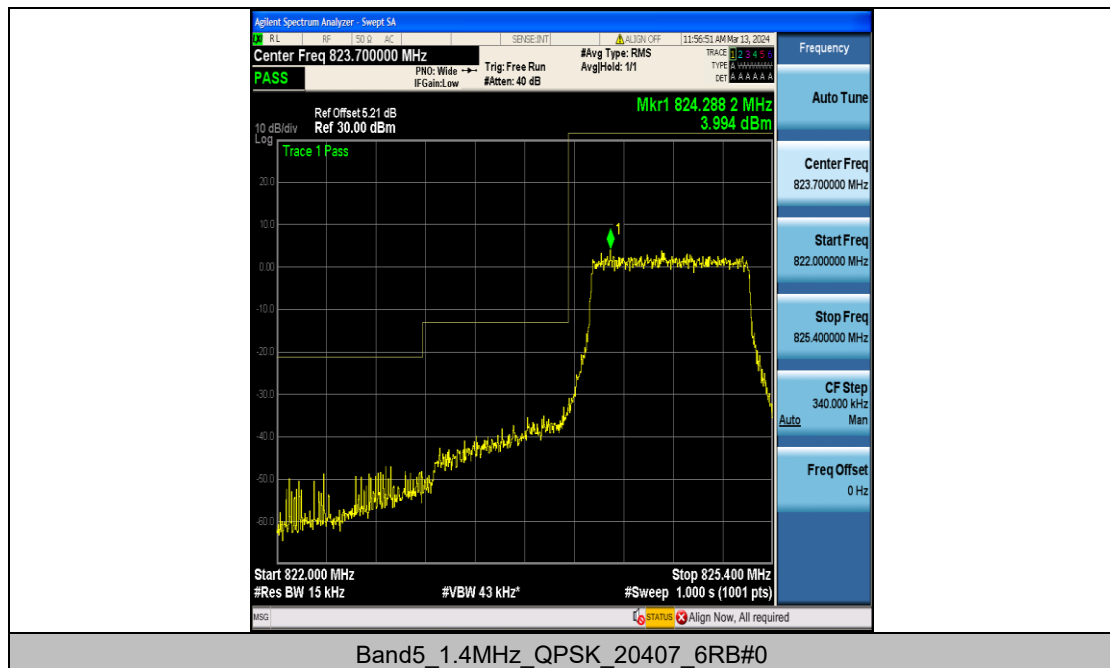
Band5-10MHz-16QAM-20600-50RB#0-PASS

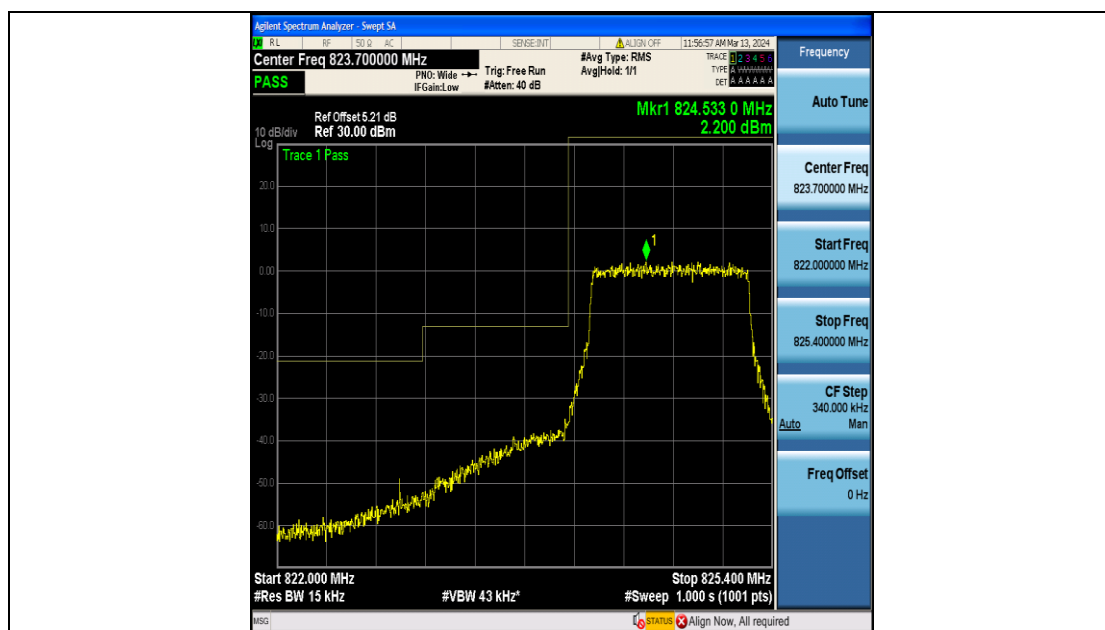
Appendix D: Band Edge

Test Result

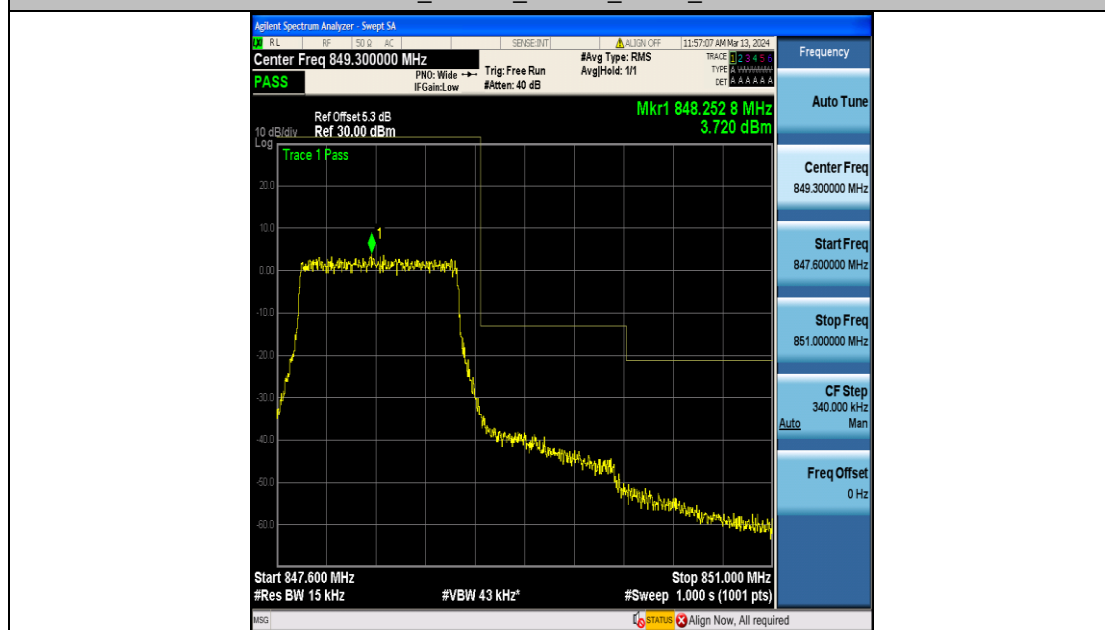
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	-32.98	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-34.86	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-33.93	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-34.50	PASS
Band5	3MHz	QPSK	20415	15RB#0	-34.58	PASS
Band5	3MHz	16QAM	20415	15RB#0	-36.79	PASS
Band5	3MHz	QPSK	20635	15RB#0	-39.99	PASS
Band5	3MHz	16QAM	20635	15RB#0	-35.92	PASS
Band5	5MHz	QPSK	20425	25RB#0	-34.77	PASS
Band5	5MHz	16QAM	20425	25RB#0	-35.81	PASS
Band5	5MHz	QPSK	20625	25RB#0	-33.92	PASS
Band5	5MHz	16QAM	20625	25RB#0	-35.25	PASS
Band5	10MHz	QPSK	20450	50RB#0	-35.27	PASS
Band5	10MHz	16QAM	20450	50RB#0	-37.15	PASS
Band5	10MHz	QPSK	20600	50RB#0	-36.12	PASS
Band5	10MHz	16QAM	20600	50RB#0	-37.40	PASS

Test Graphs

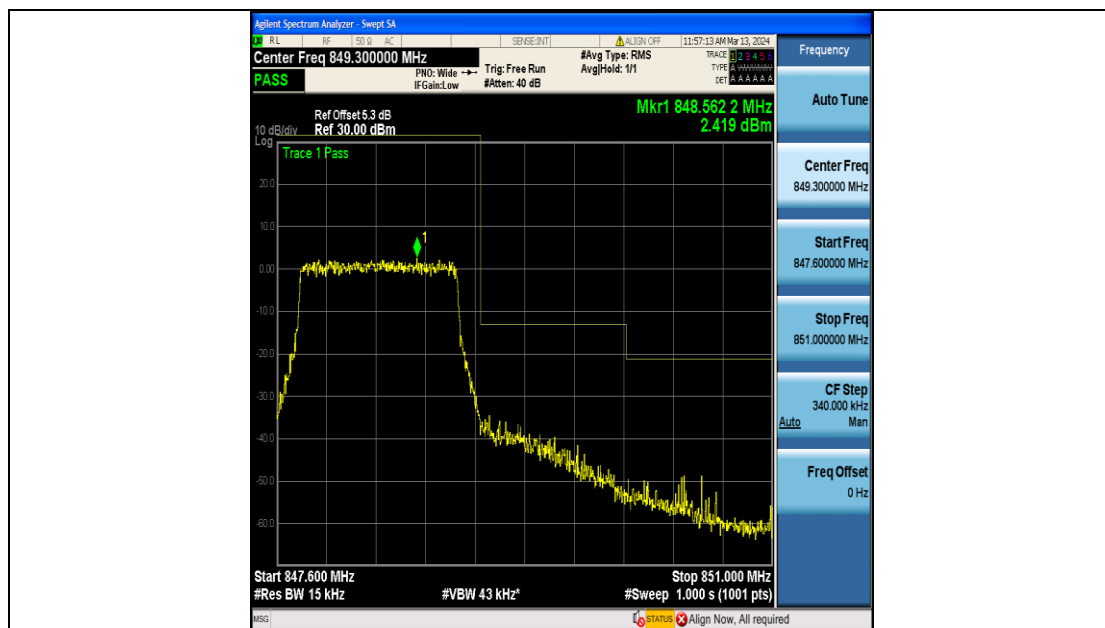




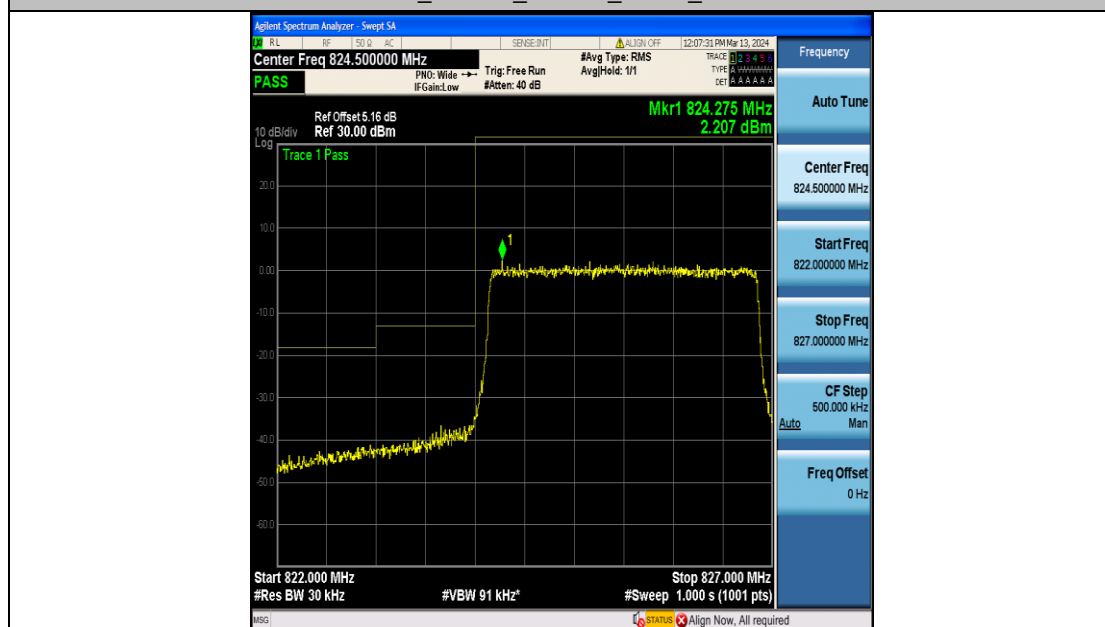
Band5_1.4MHz_16QAM_20407_6RB#0



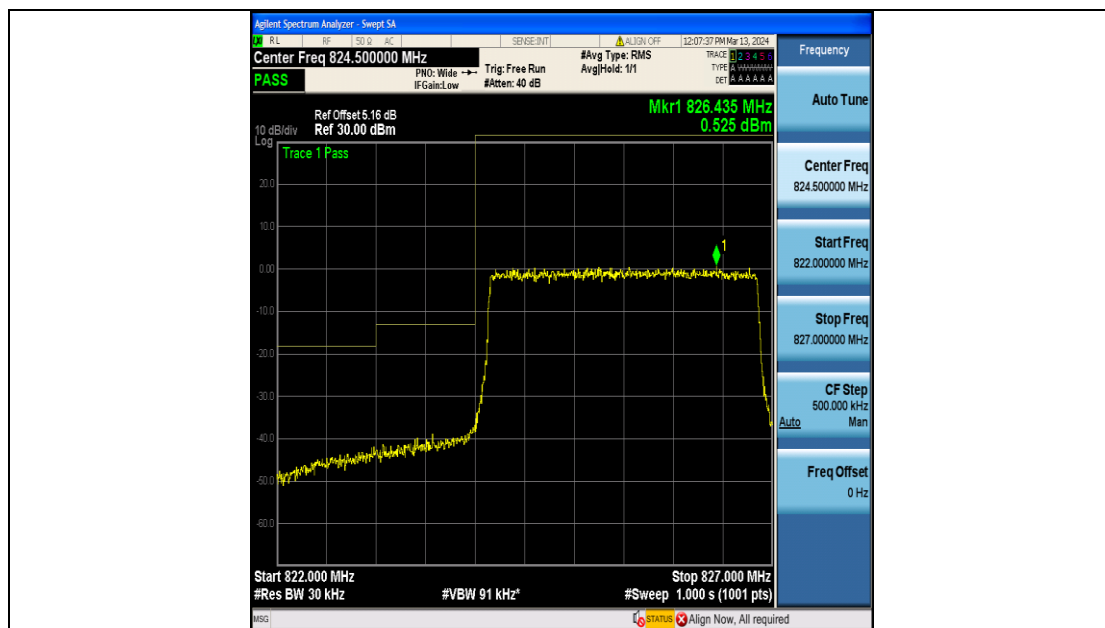
Band5_1.4MHz_QPSK_20643_6RB#0



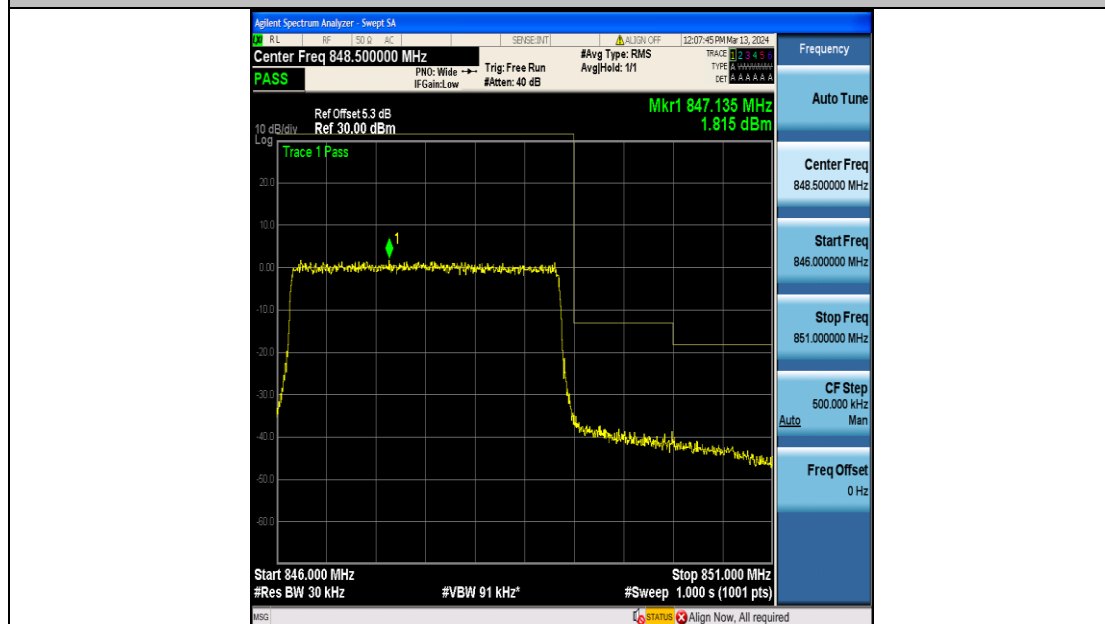
Band5_1.4MHz_16QAM_20643_6RB#0



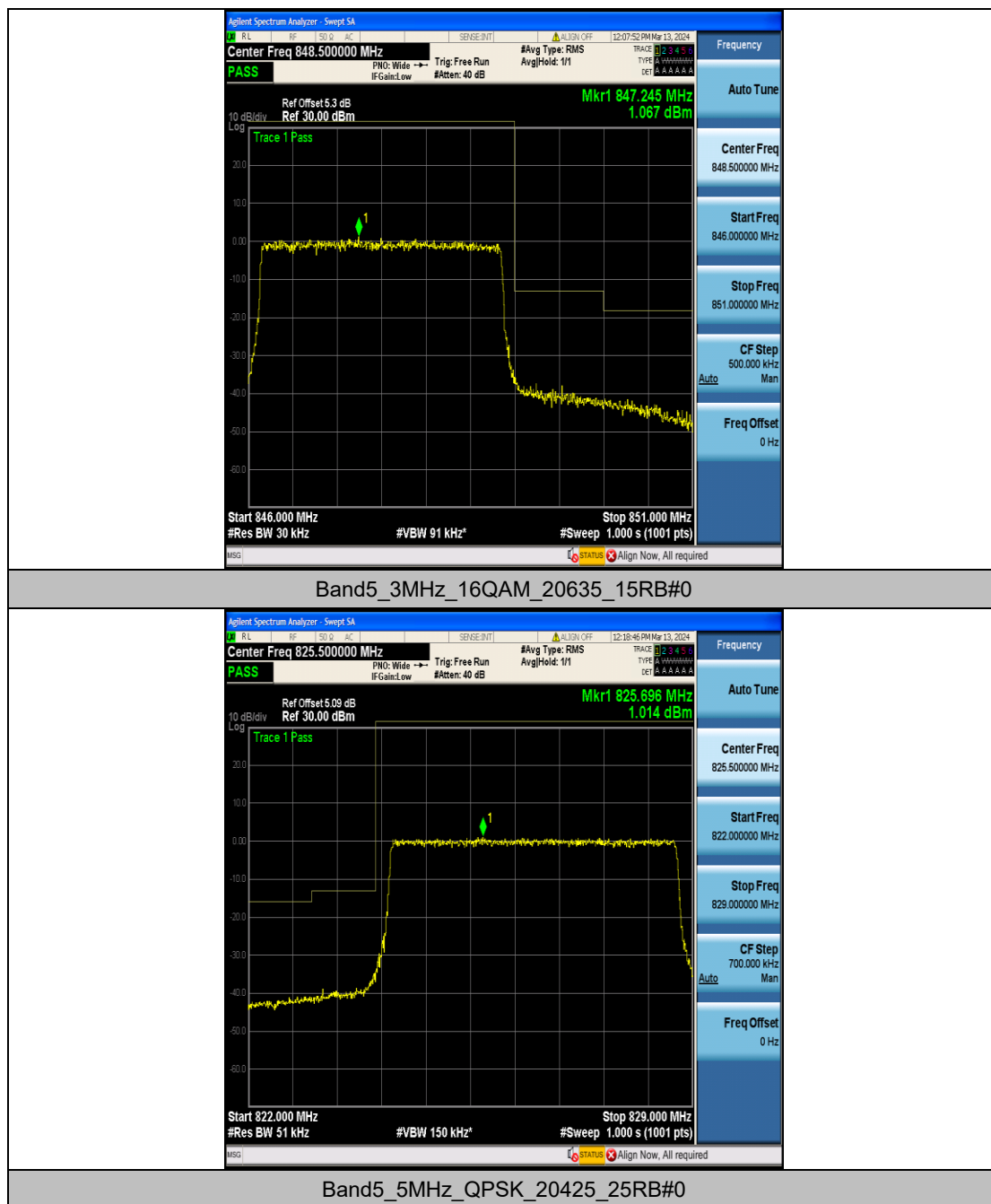
Band5_3MHz_QPSK_20415_15RB#0

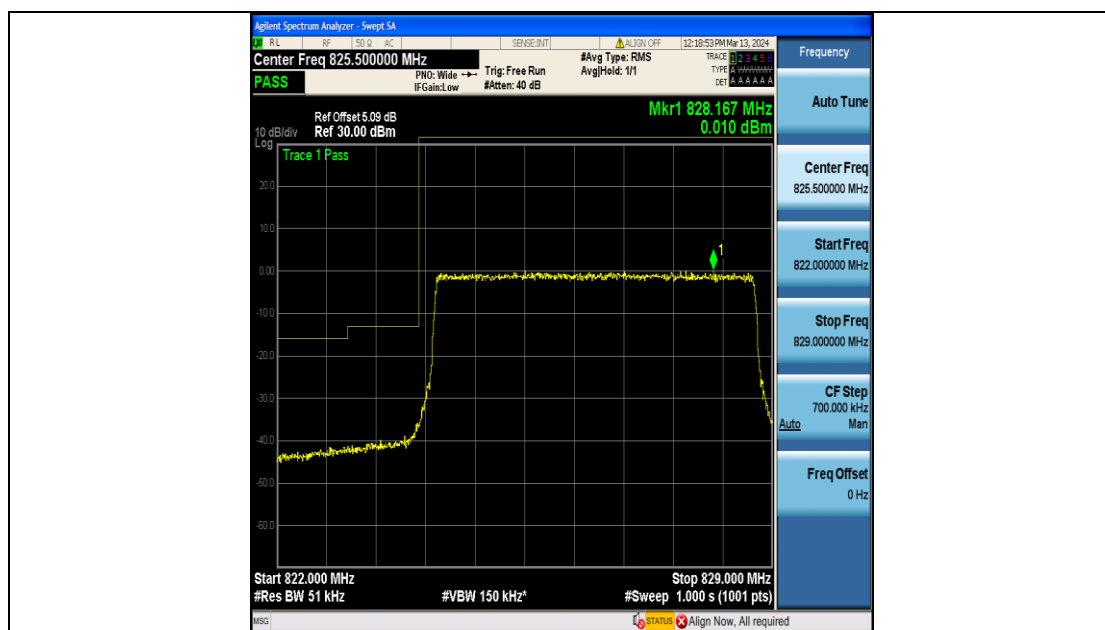


Band5_3MHz_16QAM_20415_15RB#0

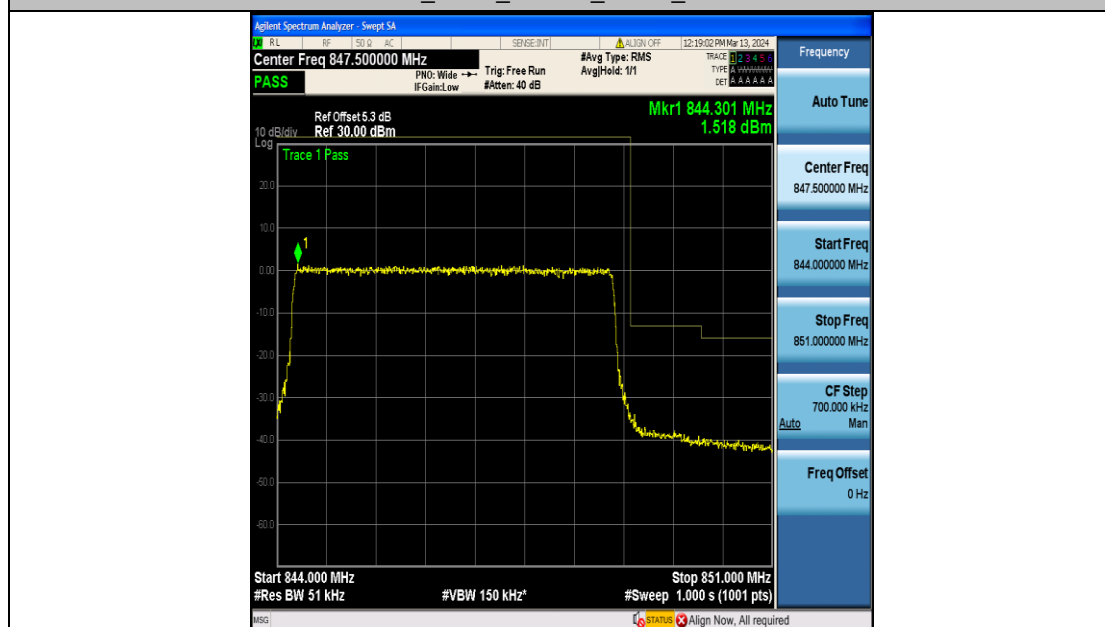


Band5_3MHz_QPSK_20635_15RB#0

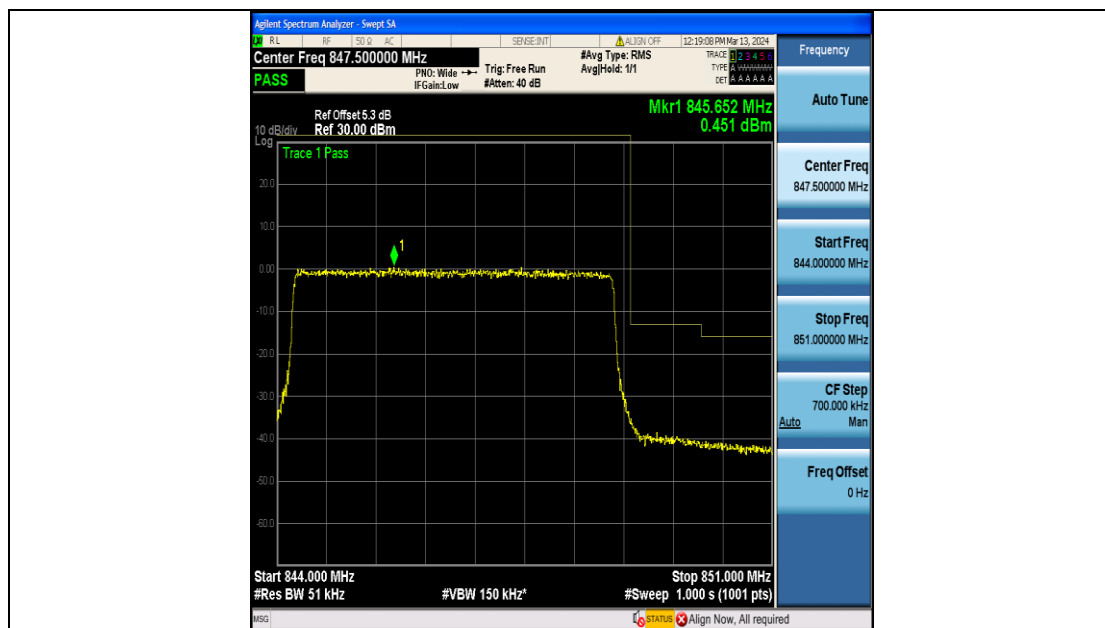




Band5_5MHz_16QAM_20425_25RB#0



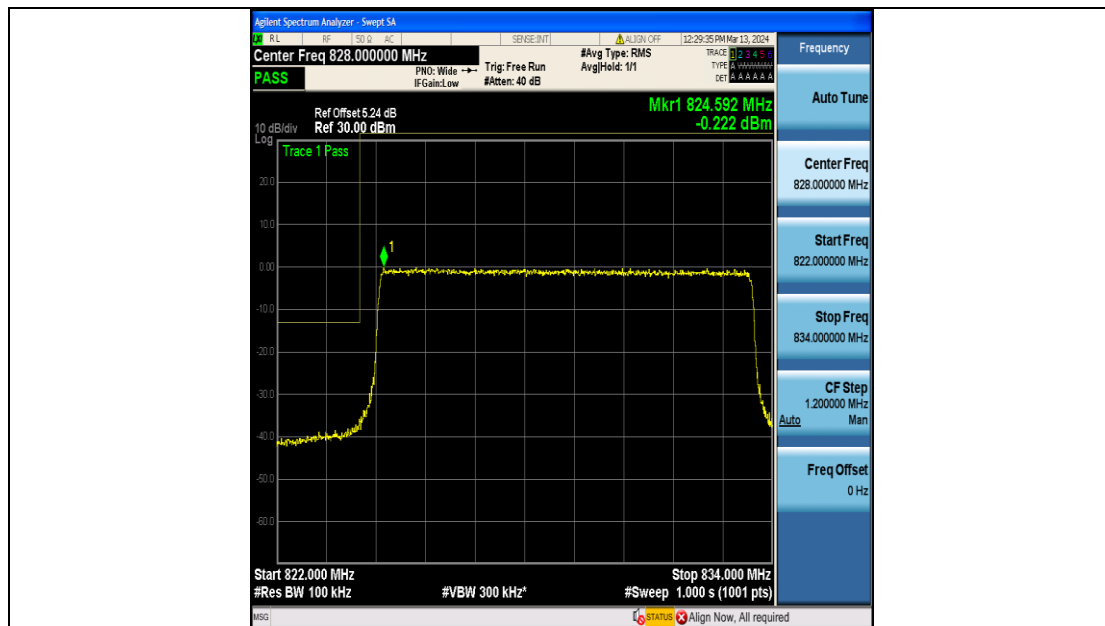
Band5_5MHz_QPSK_20625_25RB#0



Band5_5MHz_16QAM_20625_25RB#0



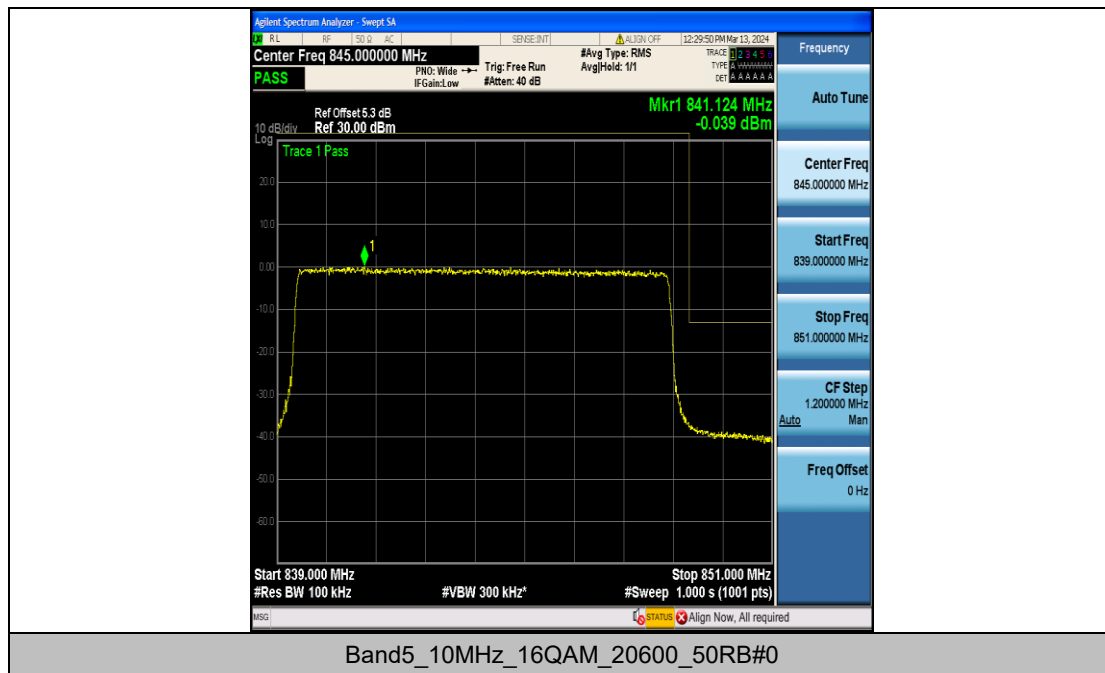
Band5_10MHz_QPSK_20450_50RB#0



Band5_10MHz_16QAM_20450_50RB#0



Band5_10MHz_QPSK_20600_50RB#0



Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	0.009~0.15	-48.36	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	0.15~30	-58.31	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	30~1000	-45.48	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	1000~3000	-51.31	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	3000~10000	-50.40	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.009~0.15	-47.69	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.15~30	-59.34	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	30~1000	-49.65	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1000~3000	-51.83	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	3000~10000	-50.82	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.009~0.15	-45.31	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.15~30	-58.03	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	30~1000	-55.29	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1000~3000	-50.35	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	3000~10000	-50.27	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.009~0.15	-48.59	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.15~30	-59.03	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	30~1000	-47.37	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1000~3000	-51.44	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	3000~10000	-50.52	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.009~0.15	-44.57	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.15~30	-58.32	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	30~1000	-41.79	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1000~3000	-52.51	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	3000~10000	-50.43	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.009~0.15	-49.94	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.15~30	-59.11	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	30~1000	-47.30	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1000~3000	-51.79	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	3000~10000	-50.58	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.009~0.15	-45.11	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.15~30	-58.26	PASS
Band5	3MHz	QPSK	20415	15RB#0	30~1000	-57.23	PASS
Band5	3MHz	QPSK	20415	15RB#0	1000~3000	-52.64	PASS
Band5	3MHz	QPSK	20415	15RB#0	3000~10000	-49.94	PASS
Band5	3MHz	16QAM	20415	15RB#0	0.009~0.15	-46.03	PASS

Band5	3MHz	16QAM	20415	15RB#0	0.15~30	-60.73	PASS
Band5	3MHz	16QAM	20415	15RB#0	30~1000	-62.35	PASS
Band5	3MHz	16QAM	20415	15RB#0	1000~3000	-52.36	PASS
Band5	3MHz	16QAM	20415	15RB#0	3000~10000	-50.51	PASS
Band5	3MHz	QPSK	20525	15RB#0	0.009~0.15	-48.08	PASS
Band5	3MHz	QPSK	20525	15RB#0	0.15~30	-58.08	PASS
Band5	3MHz	QPSK	20525	15RB#0	30~1000	-53.89	PASS
Band5	3MHz	QPSK	20525	15RB#0	1000~3000	-52.58	PASS
Band5	3MHz	QPSK	20525	15RB#0	3000~10000	-50.52	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.009~0.15	-47.18	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.15~30	-58.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	30~1000	-51.19	PASS
Band5	3MHz	16QAM	20525	15RB#0	1000~3000	-52.32	PASS
Band5	3MHz	16QAM	20525	15RB#0	3000~10000	-50.61	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.009~0.15	-45.74	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.15~30	-58.05	PASS
Band5	3MHz	QPSK	20635	15RB#0	30~1000	-60.89	PASS
Band5	3MHz	QPSK	20635	15RB#0	1000~3000	-52.31	PASS
Band5	3MHz	QPSK	20635	15RB#0	3000~10000	-50.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.009~0.15	-48.91	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.15~30	-58.95	PASS
Band5	3MHz	16QAM	20635	15RB#0	30~1000	-60.77	PASS
Band5	3MHz	16QAM	20635	15RB#0	1000~3000	-52.52	PASS
Band5	3MHz	16QAM	20635	15RB#0	3000~10000	-50.23	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.009~0.15	-46.94	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.15~30	-58.78	PASS
Band5	5MHz	QPSK	20425	25RB#0	30~1000	-64.43	PASS
Band5	5MHz	QPSK	20425	25RB#0	1000~3000	-52.26	PASS
Band5	5MHz	QPSK	20425	25RB#0	3000~10000	-50.69	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.009~0.15	-48.58	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.15~30	-60.94	PASS
Band5	5MHz	16QAM	20425	25RB#0	30~1000	-64.47	PASS
Band5	5MHz	16QAM	20425	25RB#0	1000~3000	-52.36	PASS
Band5	5MHz	16QAM	20425	25RB#0	3000~10000	-50.47	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.009~0.15	-48.75	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.15~30	-59.61	PASS
Band5	5MHz	QPSK	20525	25RB#0	30~1000	-63.63	PASS
Band5	5MHz	QPSK	20525	25RB#0	1000~3000	-52.57	PASS
Band5	5MHz	QPSK	20525	25RB#0	3000~10000	-50.59	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.009~0.15	-48.42	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.15~30	-58.62	PASS
Band5	5MHz	16QAM	20525	25RB#0	30~1000	-54.95	PASS
Band5	5MHz	16QAM	20525	25RB#0	1000~3000	-52.53	PASS

Band5	5MHz	16QAM	20525	25RB#0	3000~10000	-50.51	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.009~0.15	-45.20	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.15~30	-60.25	PASS
Band5	5MHz	QPSK	20625	25RB#0	30~1000	-64.03	PASS
Band5	5MHz	QPSK	20625	25RB#0	1000~3000	-52.30	PASS
Band5	5MHz	QPSK	20625	25RB#0	3000~10000	-50.81	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.009~0.15	-47.51	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.15~30	-59.71	PASS
Band5	5MHz	16QAM	20625	25RB#0	30~1000	-64.28	PASS
Band5	5MHz	16QAM	20625	25RB#0	1000~3000	-52.14	PASS
Band5	5MHz	16QAM	20625	25RB#0	3000~10000	-50.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.009~0.15	-48.07	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.15~30	-58.88	PASS
Band5	10MHz	QPSK	20450	50RB#0	30~1000	-64.40	PASS
Band5	10MHz	QPSK	20450	50RB#0	1000~3000	-52.47	PASS
Band5	10MHz	QPSK	20450	50RB#0	3000~10000	-50.26	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.009~0.15	-46.28	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.15~30	-58.38	PASS
Band5	10MHz	16QAM	20450	50RB#0	30~1000	-64.42	PASS
Band5	10MHz	16QAM	20450	50RB#0	1000~3000	-52.41	PASS
Band5	10MHz	16QAM	20450	50RB#0	3000~10000	-50.30	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.009~0.15	-46.67	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.15~30	-57.84	PASS
Band5	10MHz	QPSK	20525	50RB#0	30~1000	-64.51	PASS
Band5	10MHz	QPSK	20525	50RB#0	1000~3000	-52.46	PASS
Band5	10MHz	QPSK	20525	50RB#0	3000~10000	-50.37	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.009~0.15	-45.30	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.15~30	-58.48	PASS
Band5	10MHz	16QAM	20525	50RB#0	30~1000	-64.65	PASS
Band5	10MHz	16QAM	20525	50RB#0	1000~3000	-52.11	PASS
Band5	10MHz	16QAM	20525	50RB#0	3000~10000	-50.67	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.009~0.15	-45.36	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.15~30	-59.80	PASS
Band5	10MHz	QPSK	20600	50RB#0	30~1000	-64.00	PASS
Band5	10MHz	QPSK	20600	50RB#0	1000~3000	-52.55	PASS
Band5	10MHz	QPSK	20600	50RB#0	3000~10000	-50.49	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.009~0.15	-48.15	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.15~30	-60.29	PASS
Band5	10MHz	16QAM	20600	50RB#0	30~1000	-64.34	PASS
Band5	10MHz	16QAM	20600	50RB#0	1000~3000	-52.09	PASS
Band5	10MHz	16QAM	20600	50RB#0	3000~10000	-50.19	PASS

Test Graphs

