FCC LTE Band Test Data

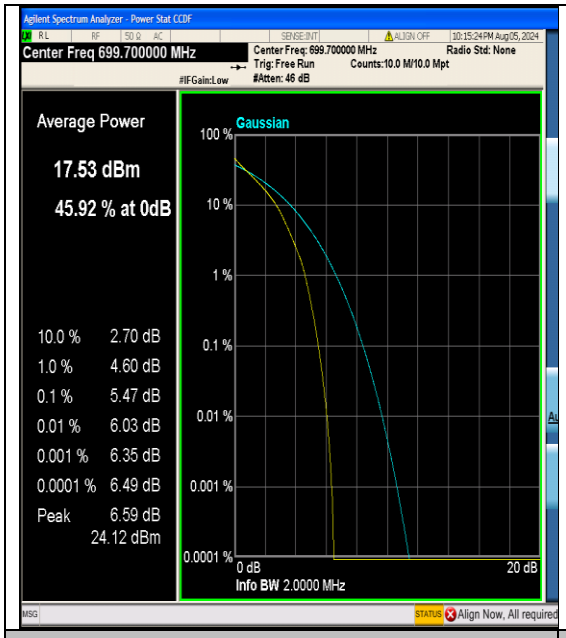
FCC ID	**:**	**2BF4O-CC4PRO**
Company:	**:**	**Shenzhen TEYES High tech Co., Ltd.**
EUT	**:**	**Car Headunit**
Model Number	**:**	**CC4PRO**
Reviewed By	**:**	**Eric Wang**

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

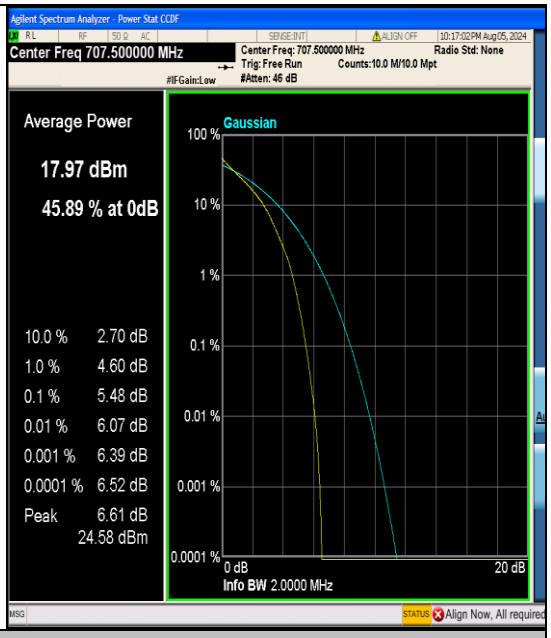
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	5.47	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.48	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.20	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.31	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.33	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	6.07	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.33	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.30	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.20	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.20	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.18	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.05	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.33	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.33	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.24	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.16	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.16	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.06	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.30	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.26	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.22	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.13	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.08	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.06	13	PASS

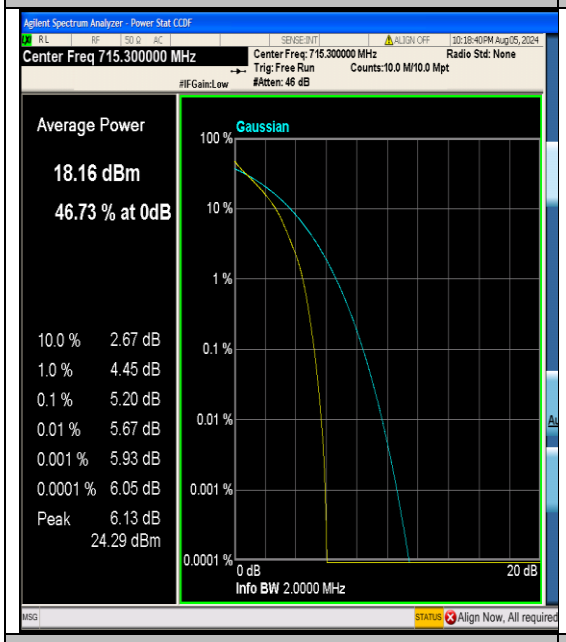
Test Graphs



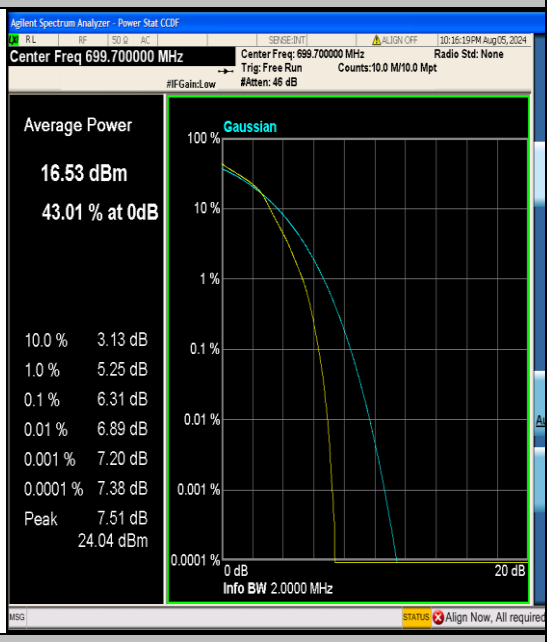
Band12-1.4MHz-QPSK-23017-6RB#0-PASS



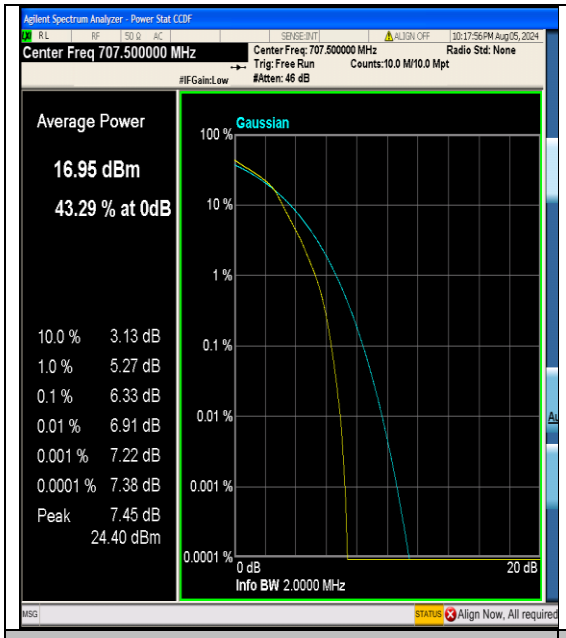
Band12-1.4MHz-QPSK-23095-6RB#0-PASS



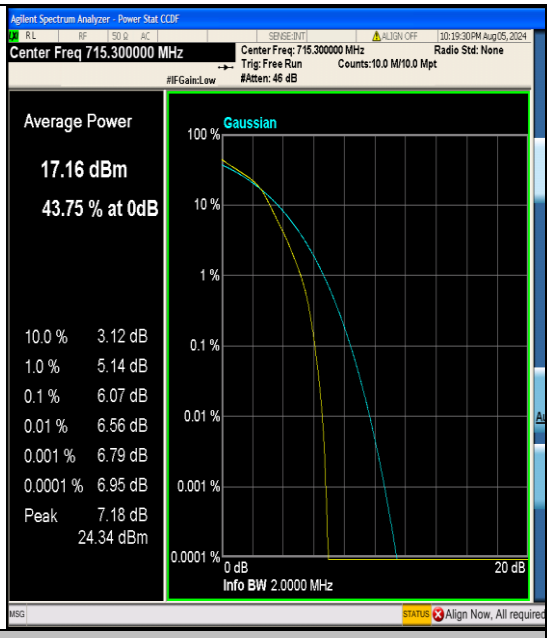
Band12-1.4MHz-QPSK-23173-6RB#0-PASS



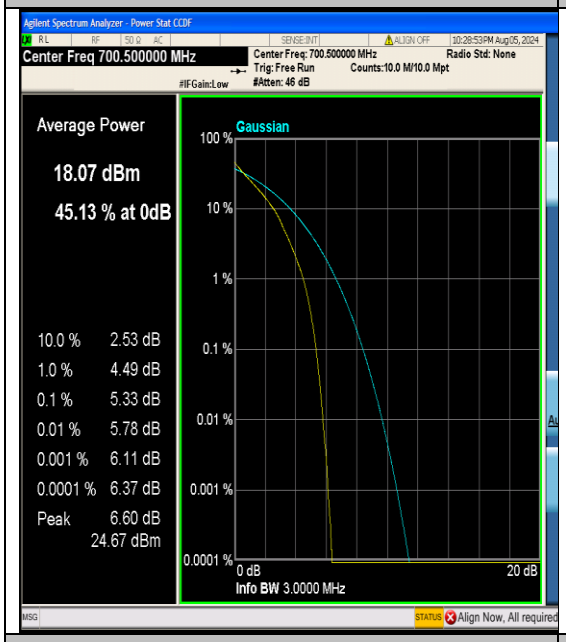
Band12-1.4MHz-16QAM-23017-6RB#0-PASS



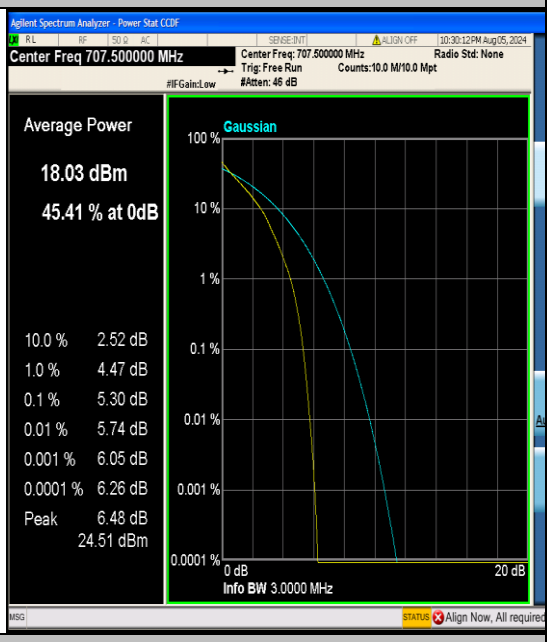
Band12-1.4MHz-16QAM-23095-6RB#0-PASS



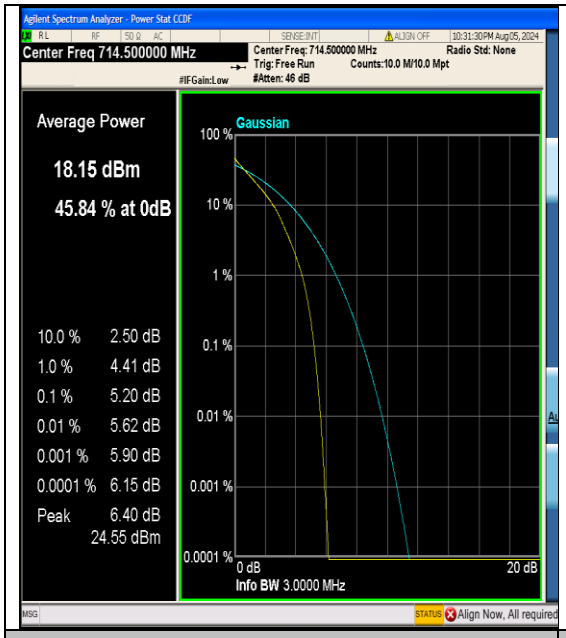
Band12-1.4MHz-16QAM-23173-6RB#0-PASS



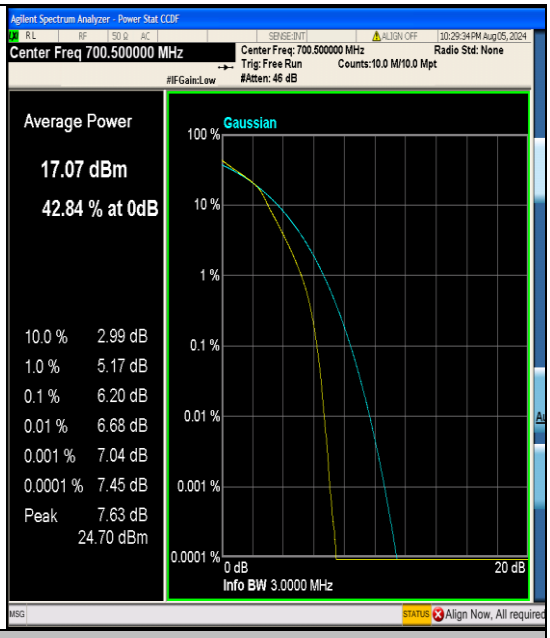
Band12-3MHz-QPSK-23025-15RB#0-PASS



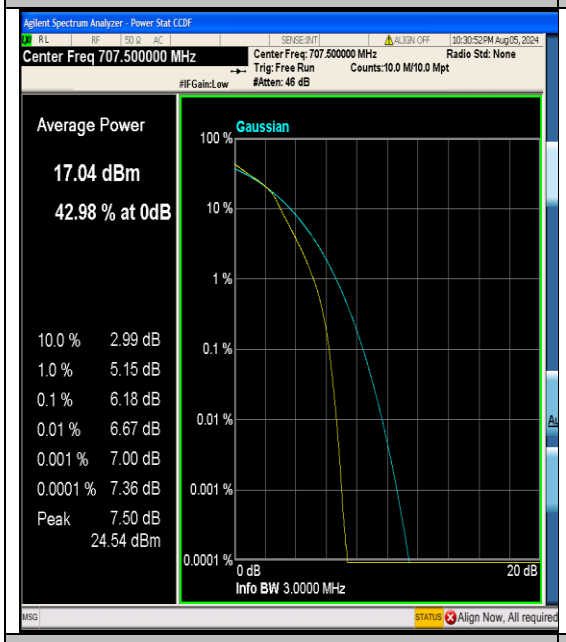
Band12-3MHz-QPSK-23095-15RB#0-PASS



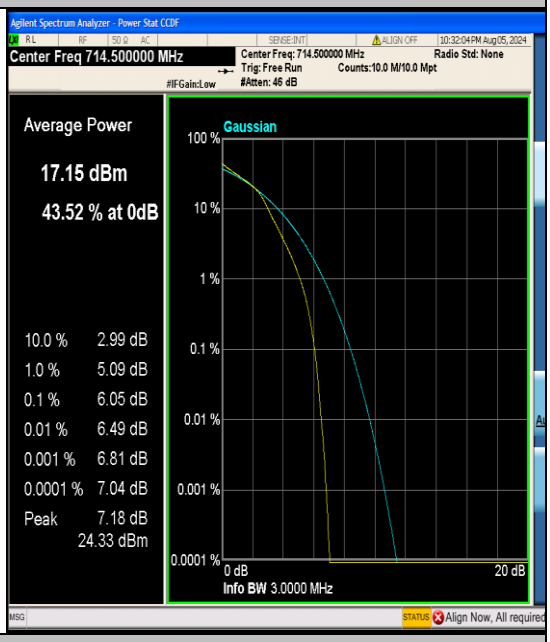
Band12-3MHz-QPSK-23165-15RB#0-PASS



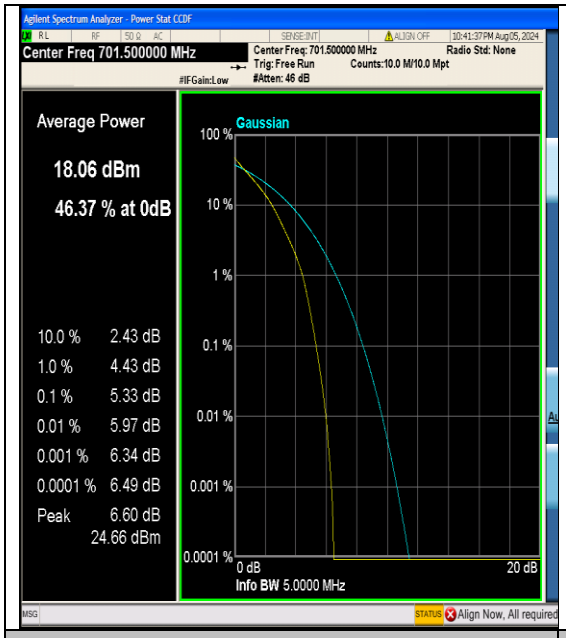
Band12-3MHz-16QAM-23025-15RB#0-PASS



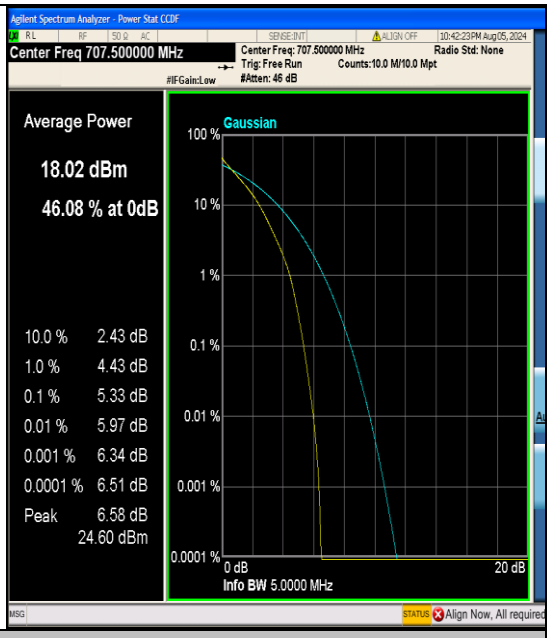
Band12-3MHz-16QAM-23095-15RB#0-PASS



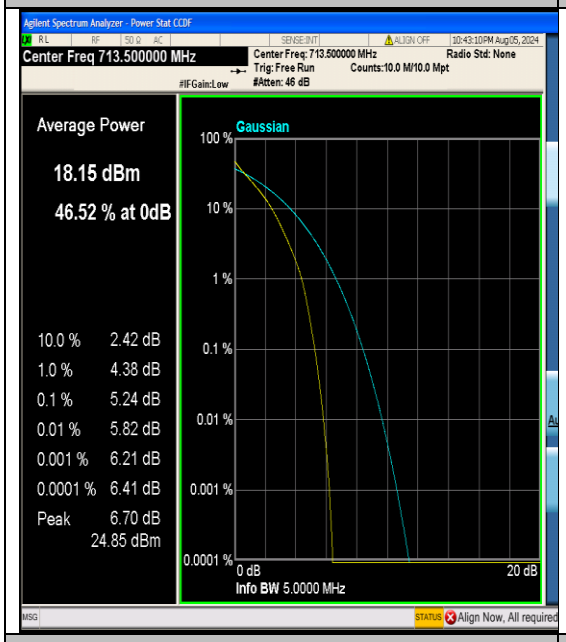
Band12-3MHz-16QAM-23165-15RB#0-PASS



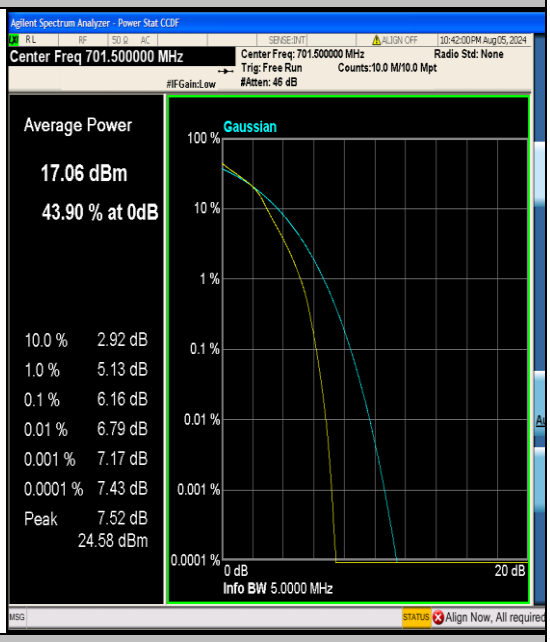
Band12-5MHz-QPSK-23035-25RB#0-PASS



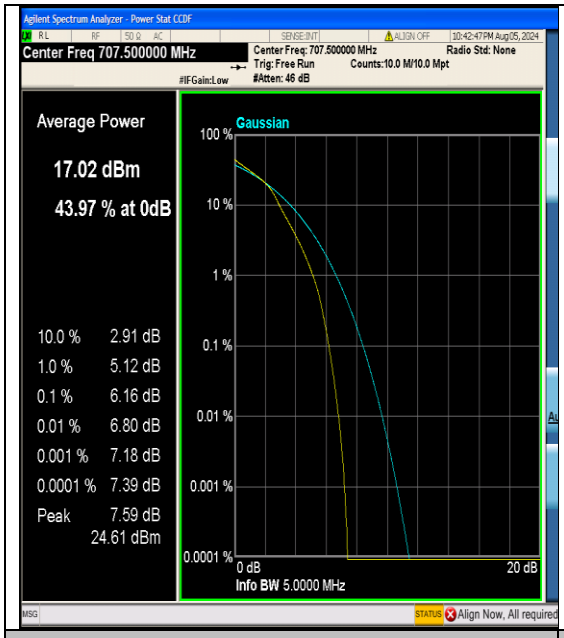
Band12-5MHz-QPSK-23095-25RB#0-PASS



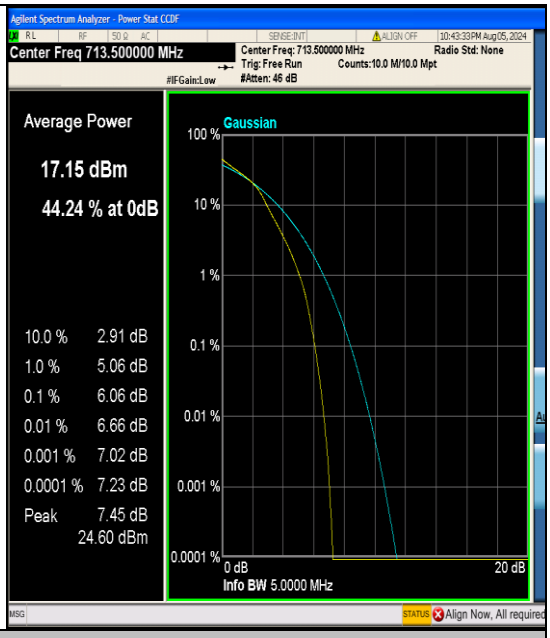
Band12-5MHz-QPSK-23155-25RB#0-PASS



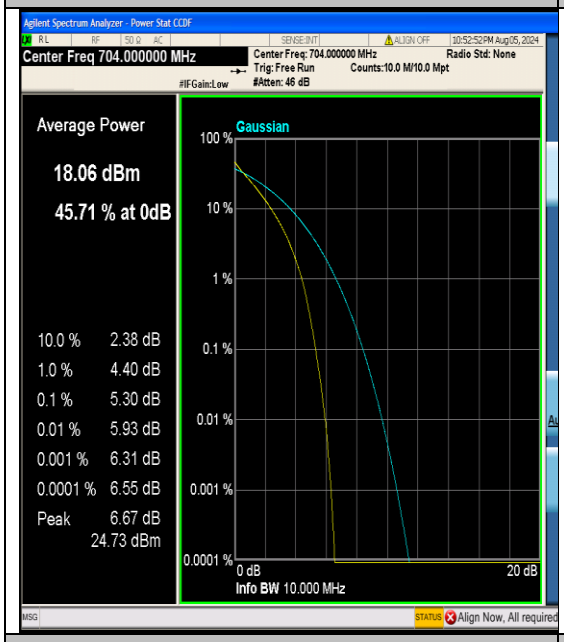
Band12-5MHz-16QAM-23035-25RB#0-PASS



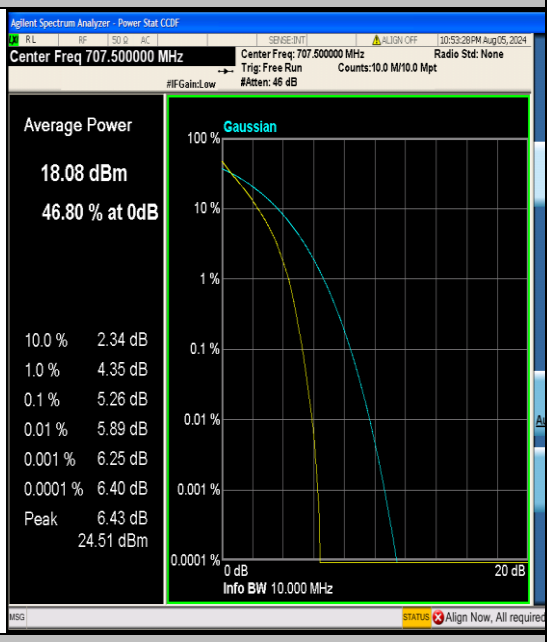
Band12-5MHz-16QAM-23095-25RB#0-PASS



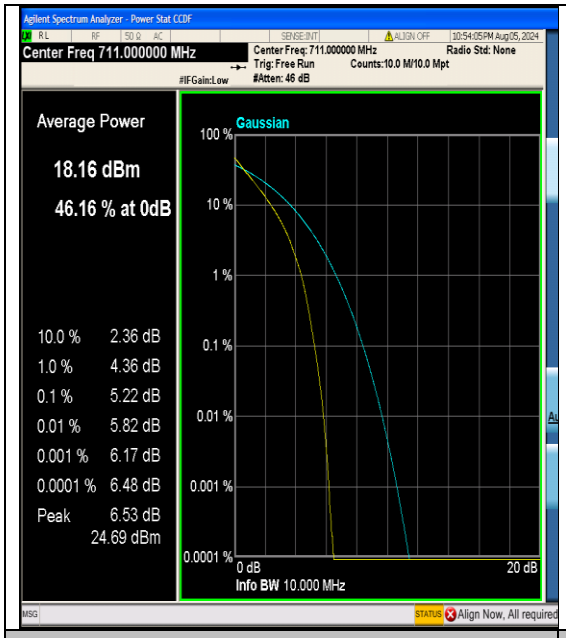
Band12-5MHz-16QAM-23155-25RB#0-PASS



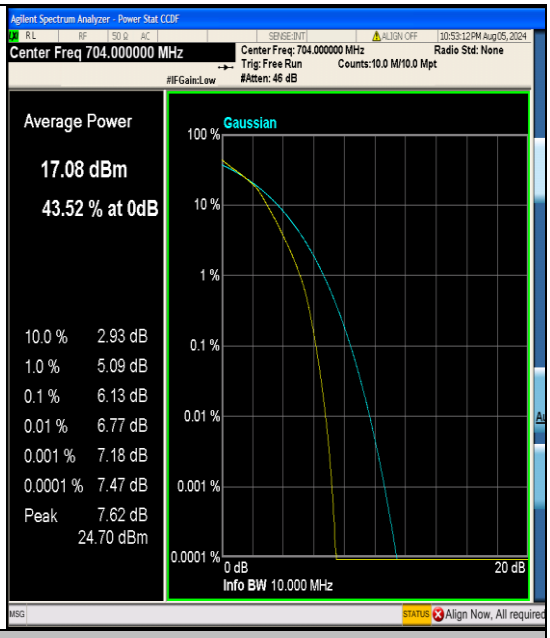
Band12-10MHz-QPSK-23060-50RB#0-PASS



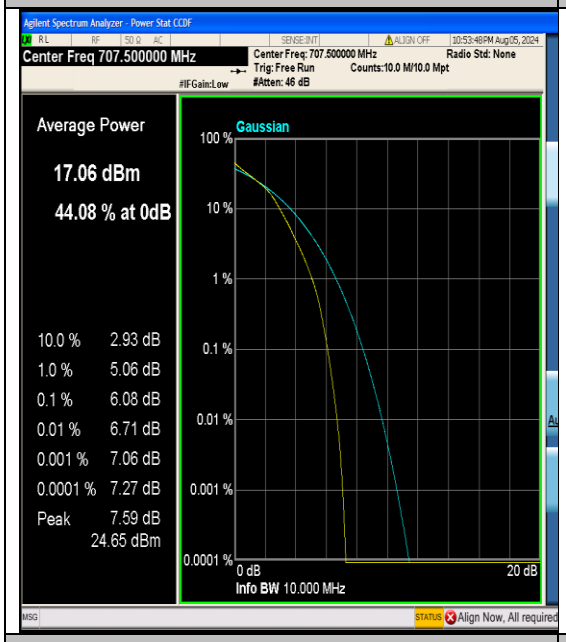
Band12-10MHz-QPSK-23095-50RB#0-PASS



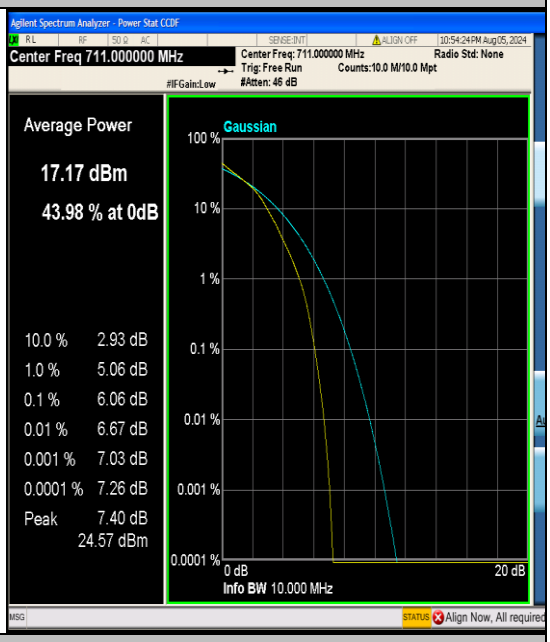
Band12-10MHz-QPSK-23130-50RB#0-PASS



Band12-10MHz-16QAM-23060-50RB#0-PASS



Band12-10MHz-16QAM-23095-50RB#0-PASS



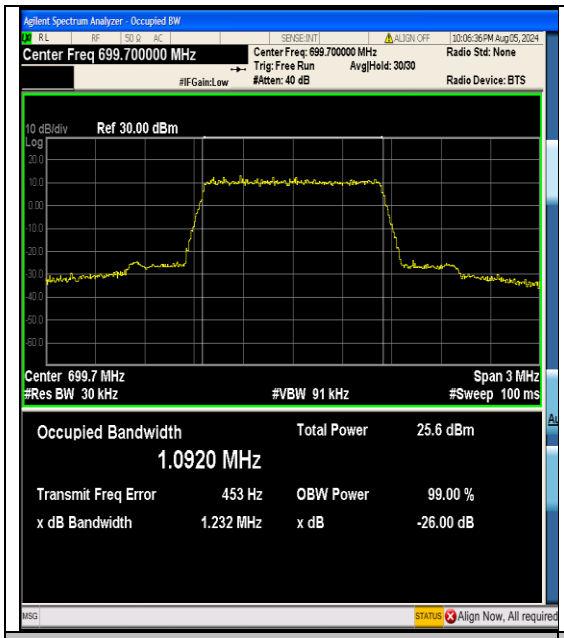
Band12-10MHz-16QAM-23130-50RB#0-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

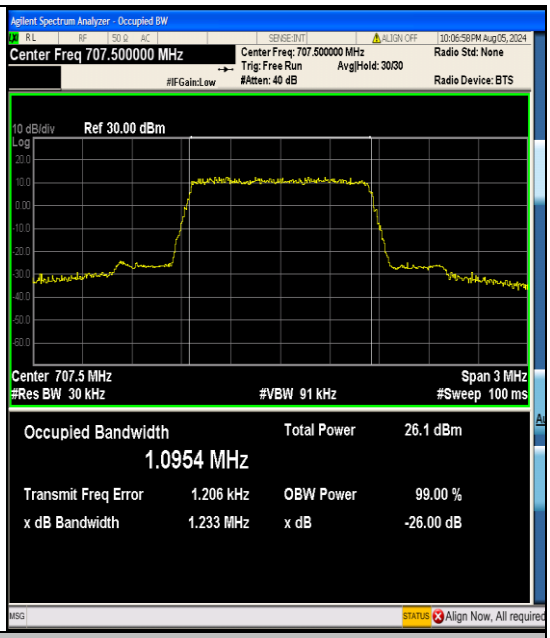
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0920	1.232	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0954	1.233	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0932	1.242	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0967	1.237	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0923	1.238	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0915	1.239	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6990	2.980	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6999	2.970	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6930	2.992	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6940	2.978	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6965	2.985	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6973	3.002	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5045	4.978	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5103	4.971	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5095	4.964	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5071	4.958	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5051	4.933	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5082	4.966	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9846	9.848	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9856	9.846	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9825	9.915	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9793	9.854	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9770	9.829	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9777	9.856	PASS

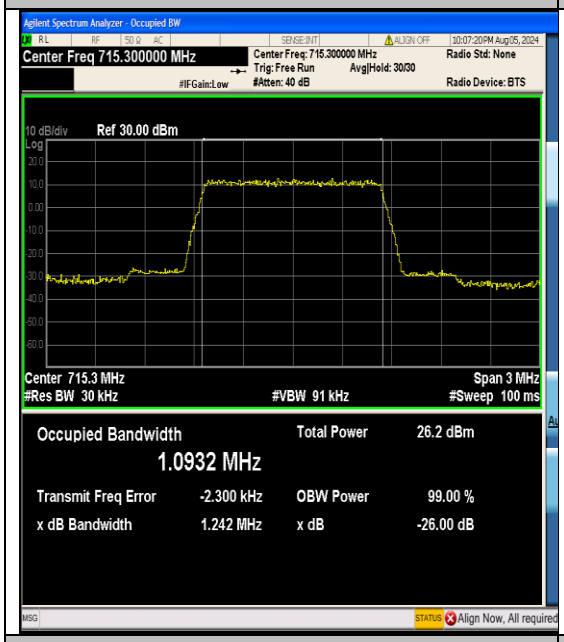
Test Graphs



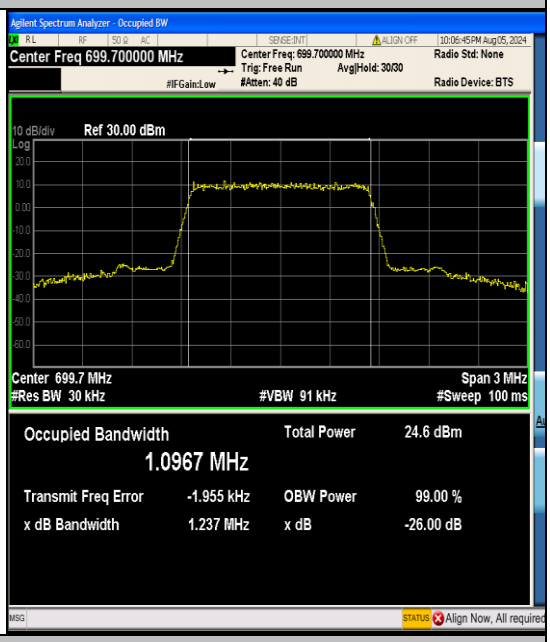
Band12-1.4MHz-QPSK-23017-6RB#0-PASS



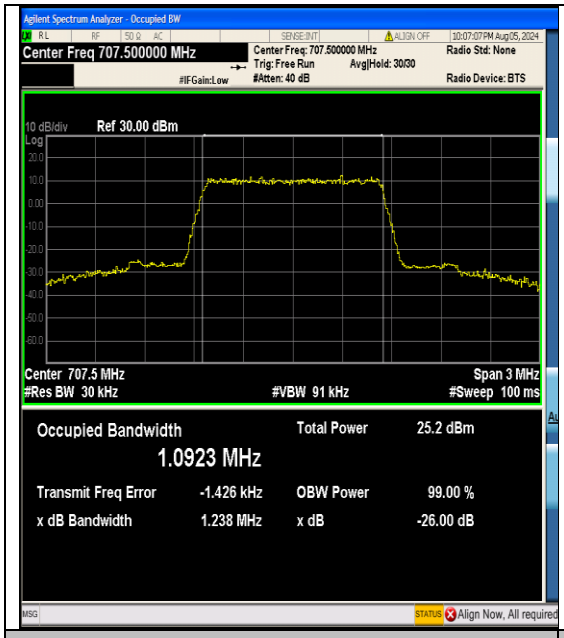
Band12-1.4MHz-QPSK-23095-6RB#0-PASS



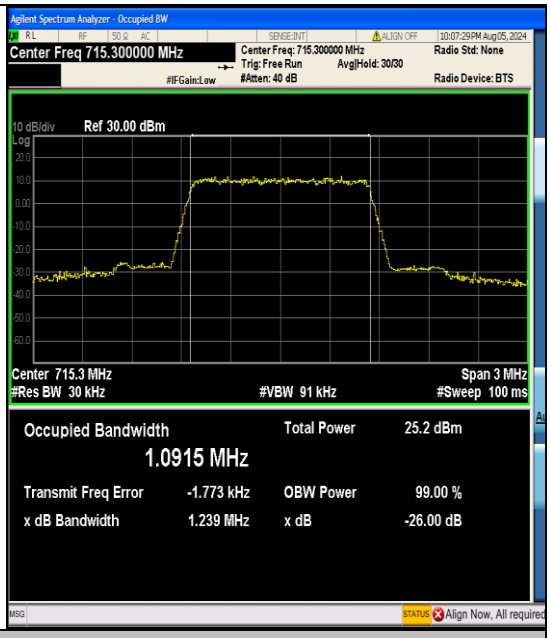
Band12-1.4MHz-QPSK-23173-6RB#0-PASS



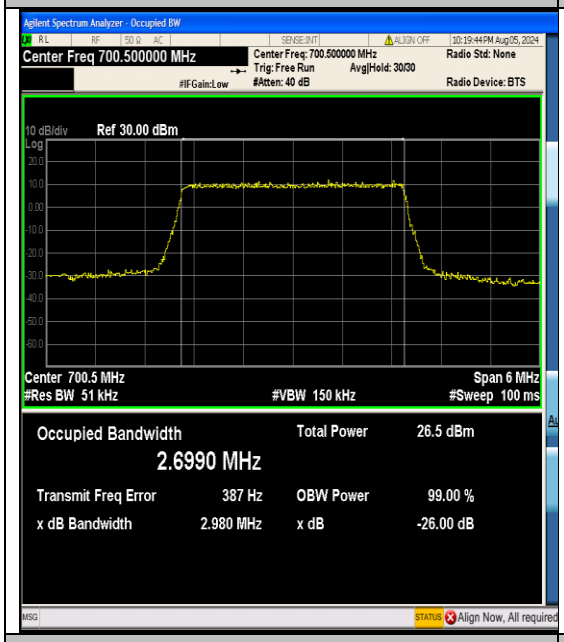
Band12-1.4MHz-16QAM-23017-6RB#0-PASS



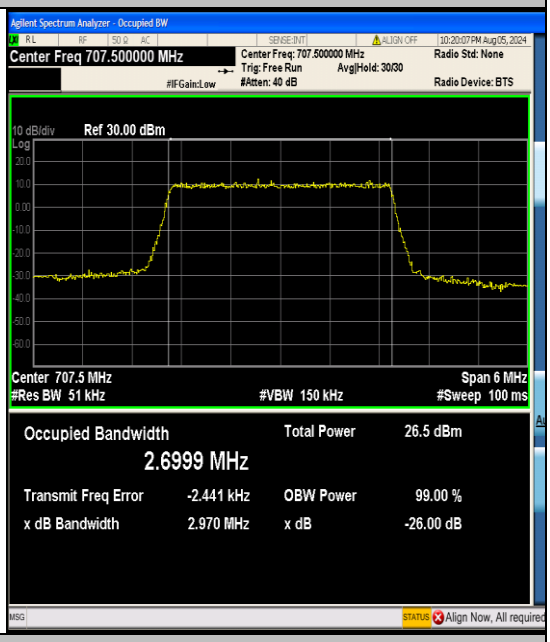
Band12-1.4MHz-16QAM-23095-6RB#0-PASS



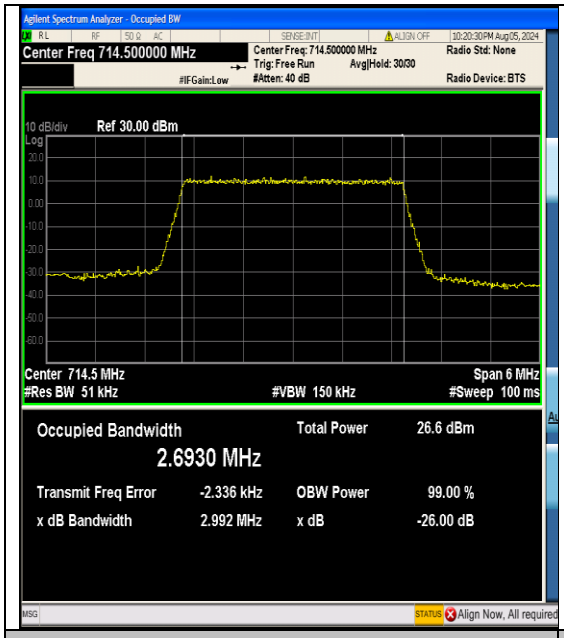
Band12-1.4MHz-16QAM-23173-6RB#0-PASS



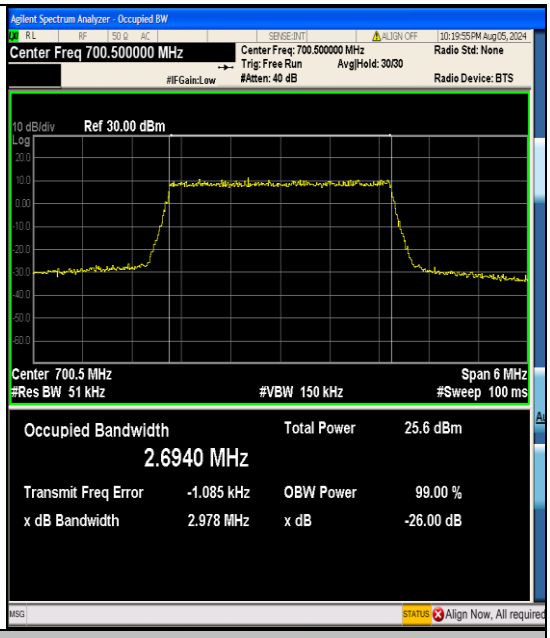
Band12-3MHz-QPSK-23025-15RB#0-PASS



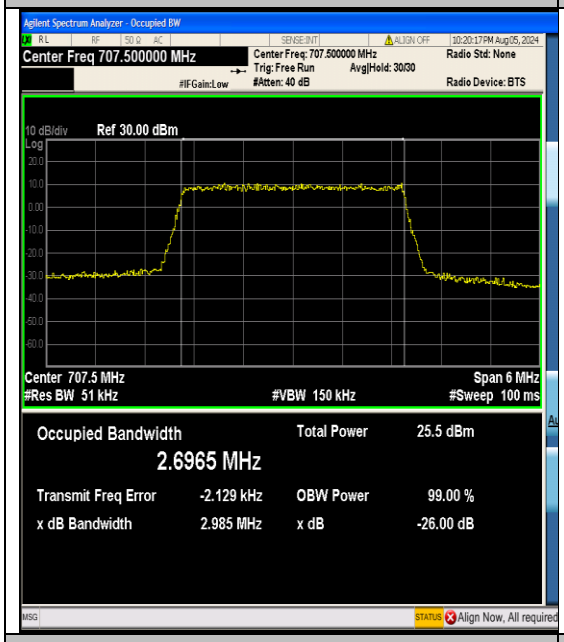
Band12-3MHz-QPSK-23095-15RB#0-PASS



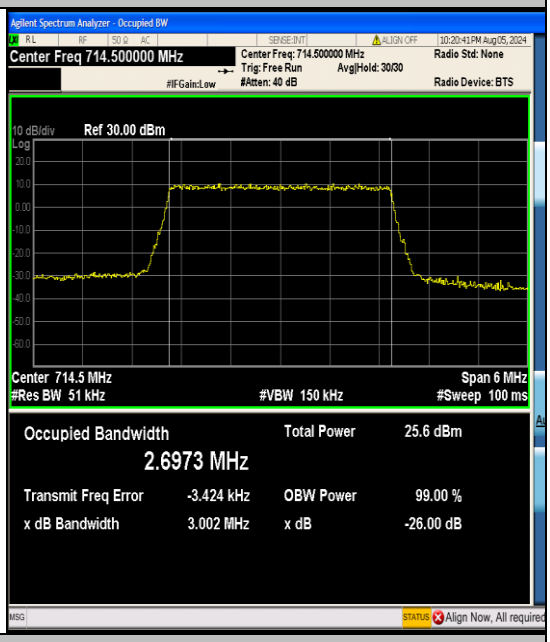
Band12-3MHz-QPSK-23165-15RB#0-PASS



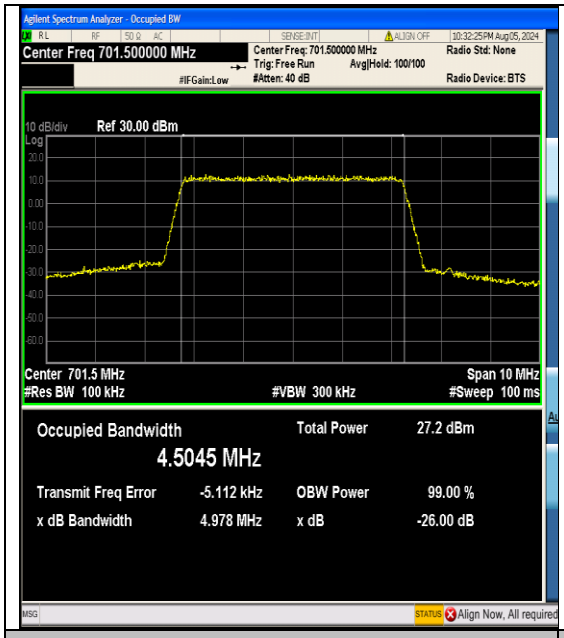
Band12-3MHz-16QAM-23025-15RB#0-PASS



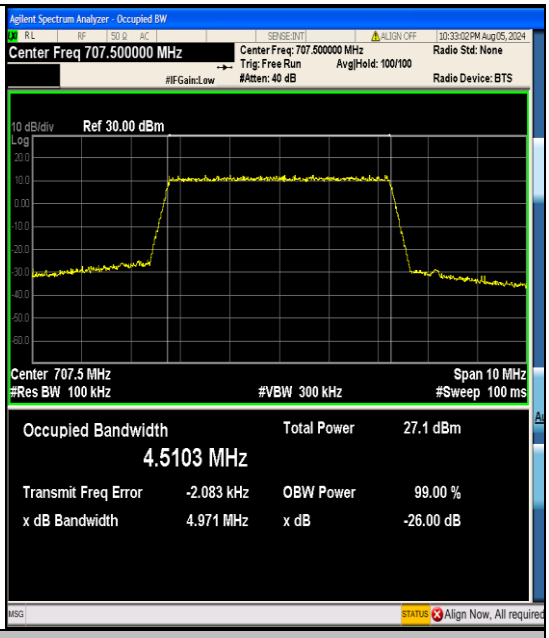
Band12-3MHz-16QAM-23095-15RB#0-PASS



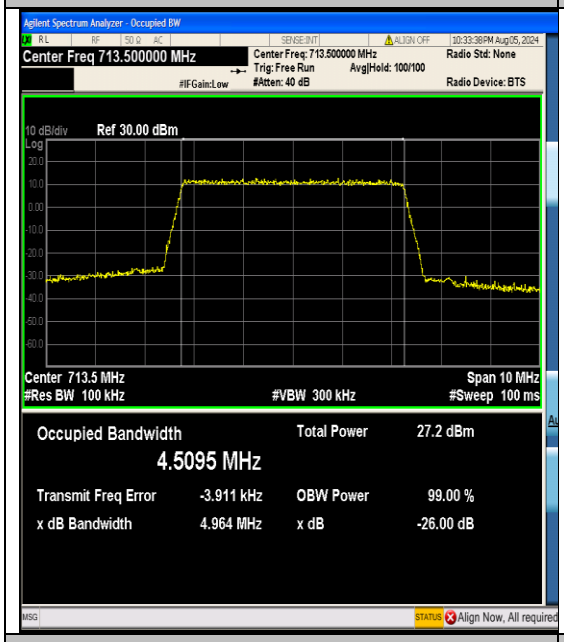
Band12-3MHz-16QAM-23165-15RB#0-PASS



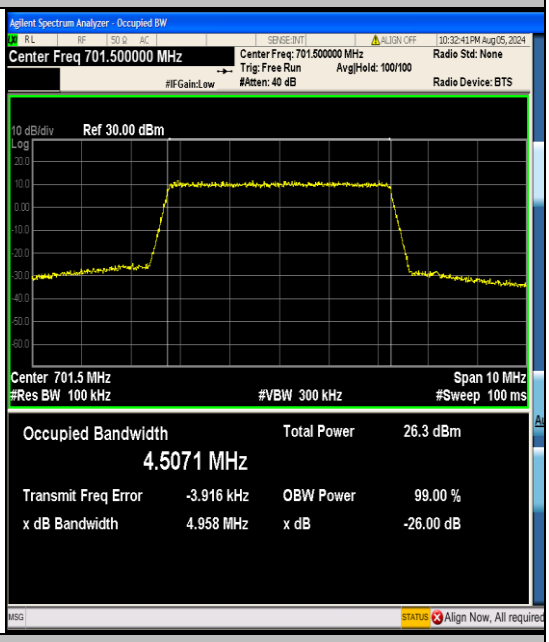
Band12-5MHz-QPSK-23035-25RB#0-PASS



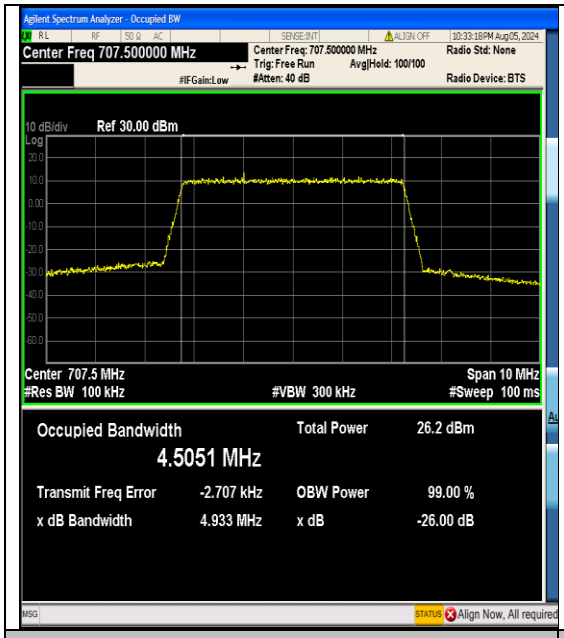
Band12-5MHz-QPSK-23095-25RB#0-PASS



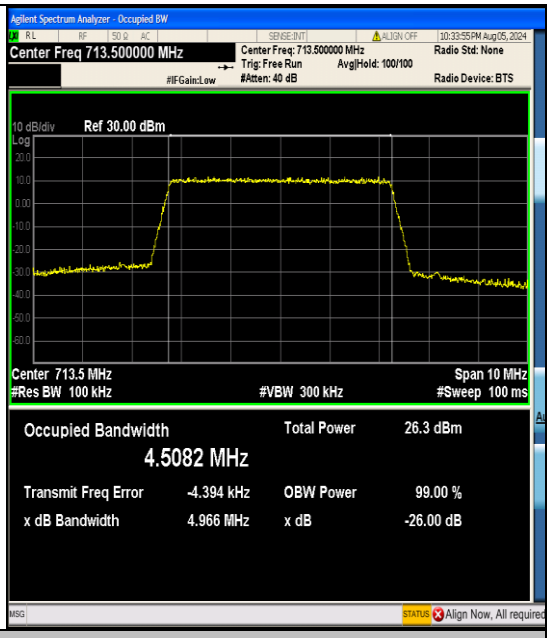
Band12-5MHz-QPSK-23155-25RB#0-PASS



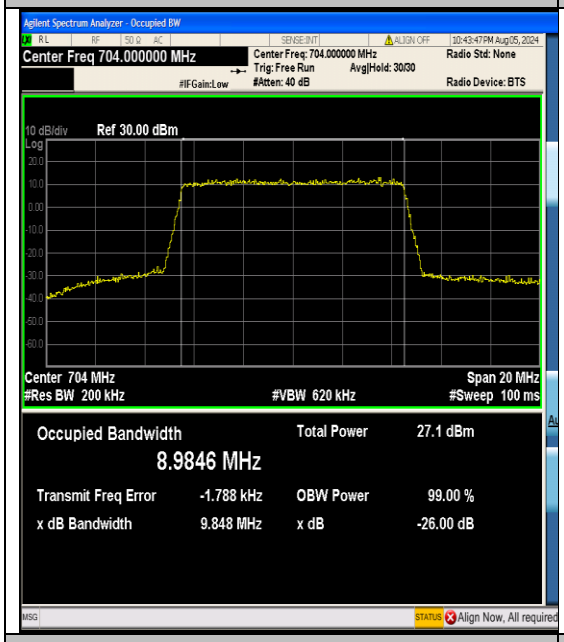
Band12-5MHz-16QAM-23035-25RB#0-PASS



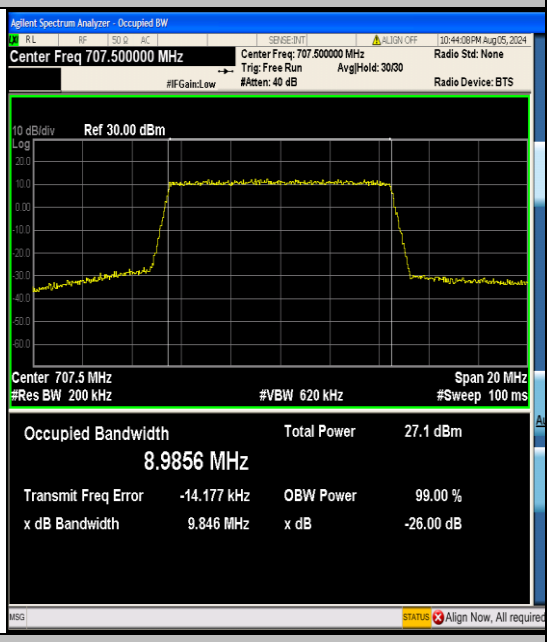
Band12-5MHz-16QAM-23095-25RB#0-PASS



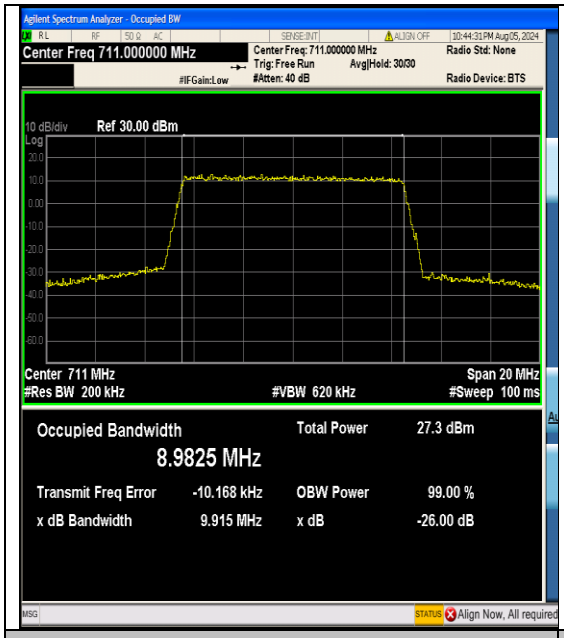
Band12-5MHz-16QAM-23155-25RB#0-PASS



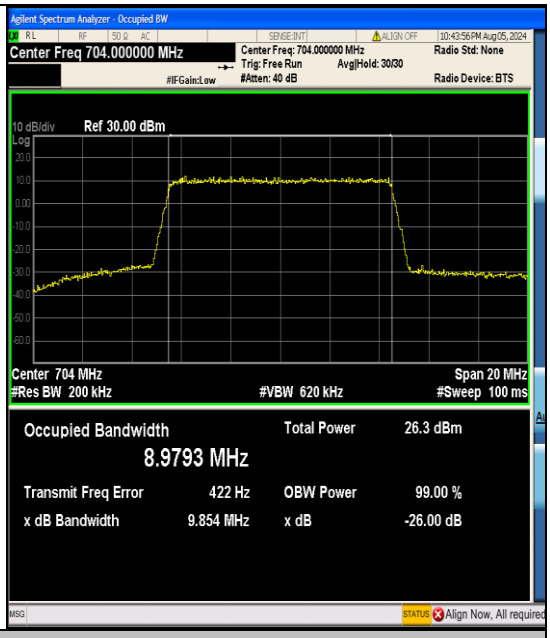
Band12-10MHz-QPSK-23060-50RB#0-PASS



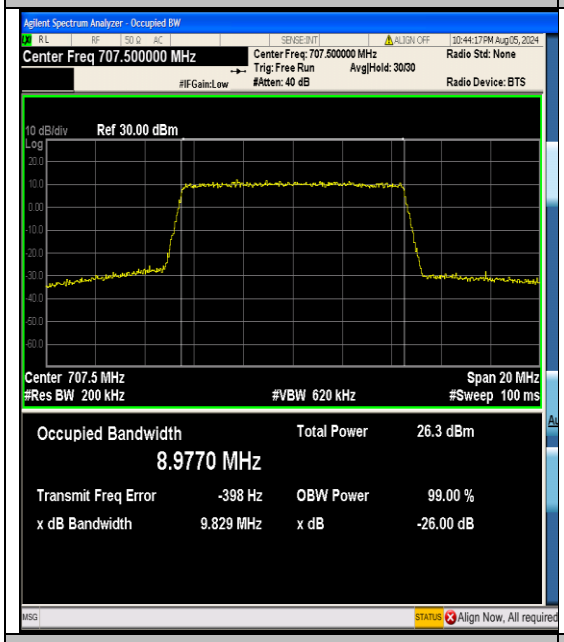
Band12-10MHz-QPSK-23095-50RB#0-PASS



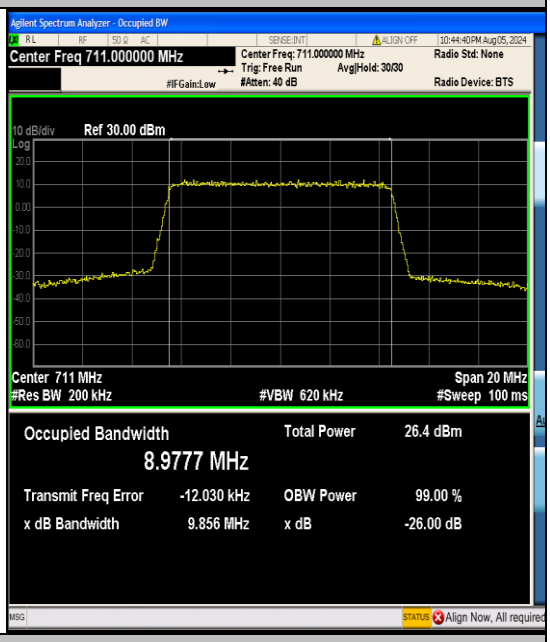
Band12-10MHz-QPSK-23130-50RB#0-PASS



Band12-10MHz-16QAM-23060-50RB#0-PASS



Band12-10MHz-16QAM-23095-50RB#0-PASS



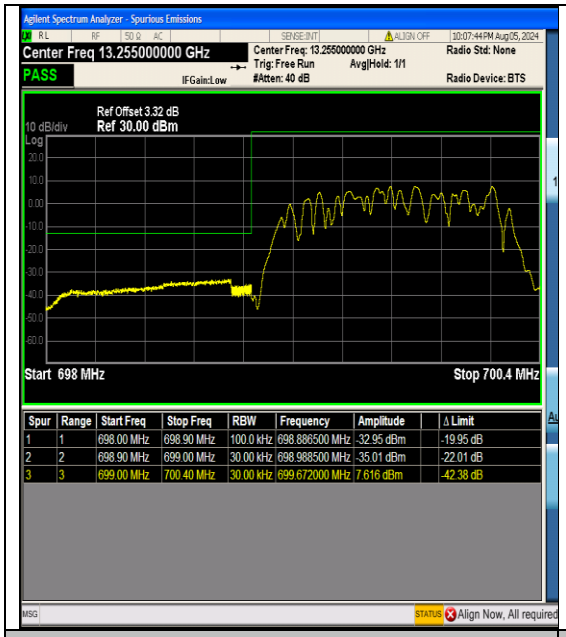
Band12-10MHz-16QAM-23130-50RB#0-PASS

Appendix D: Band Edge

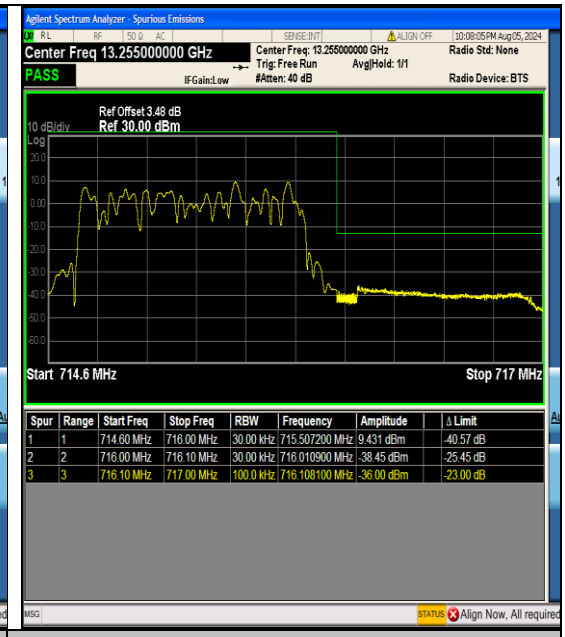
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	-32.95	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-36.00	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-32.47	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-35.25	PASS
Band12	3MHz	QPSK	23025	15RB#0	-33.61	PASS
Band12	3MHz	QPSK	23165	15RB#0	-35.04	PASS
Band12	3MHz	16QAM	23025	15RB#0	-34.06	PASS
Band12	3MHz	16QAM	23165	15RB#0	-36.42	PASS
Band12	5MHz	QPSK	23035	25RB#0	-37.21	PASS
Band12	5MHz	QPSK	23155	25RB#0	-40.44	PASS
Band12	5MHz	16QAM	23035	25RB#0	-37.35	PASS
Band12	5MHz	16QAM	23155	25RB#0	-41.17	PASS
Band12	10MHz	QPSK	23060	50RB#0	-41.89	PASS
Band12	10MHz	QPSK	23130	50RB#0	-45.01	PASS
Band12	10MHz	16QAM	23060	50RB#0	-40.86	PASS
Band12	10MHz	16QAM	23130	50RB#0	-44.51	PASS

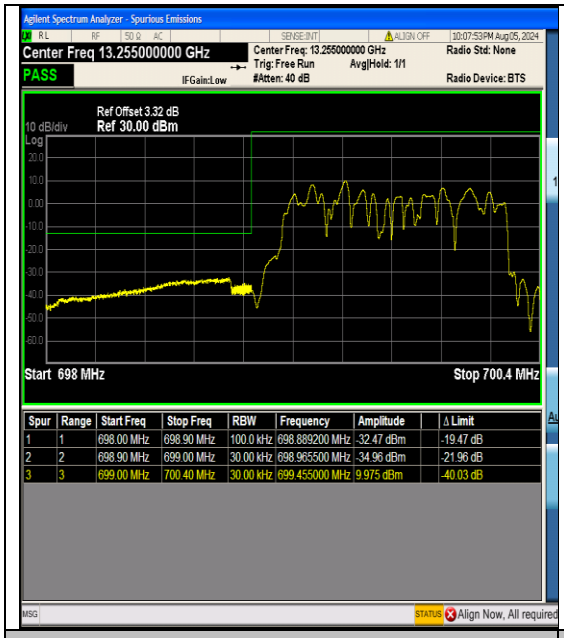
Test Graphs



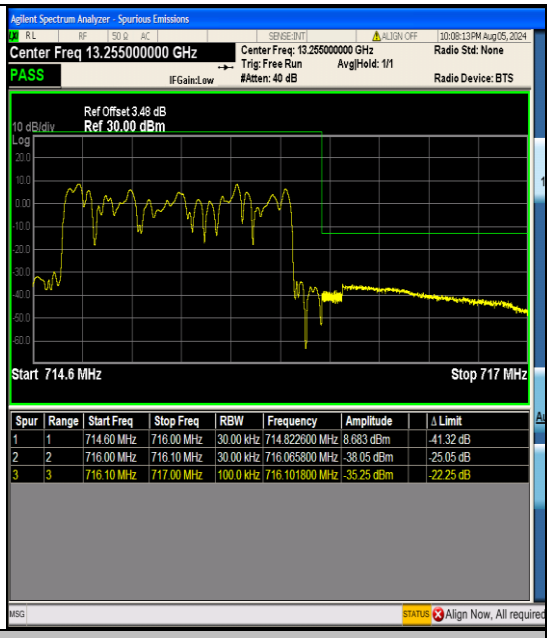
Band12_1.4MHz_QPSK_23017_6RB#0



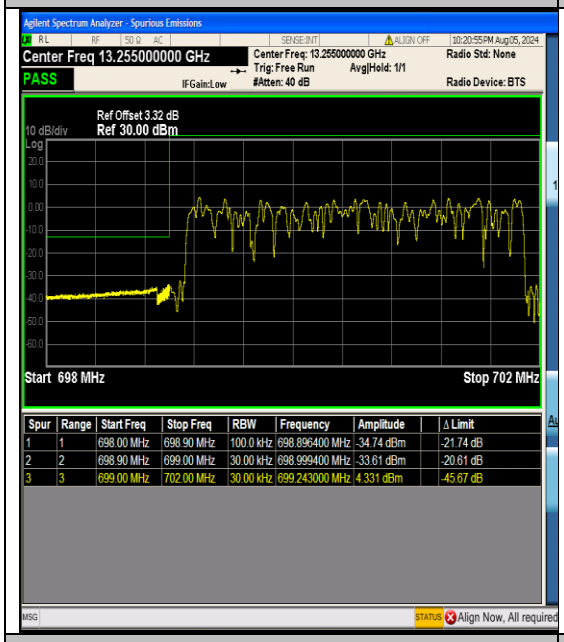
Band12_1.4MHz_QPSK_23173_6RB#0



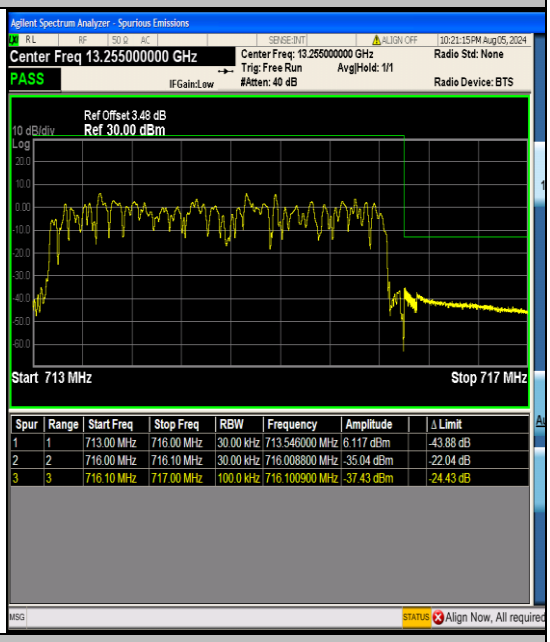
Band12_1.4MHz_16QAM_23017_6RB#0



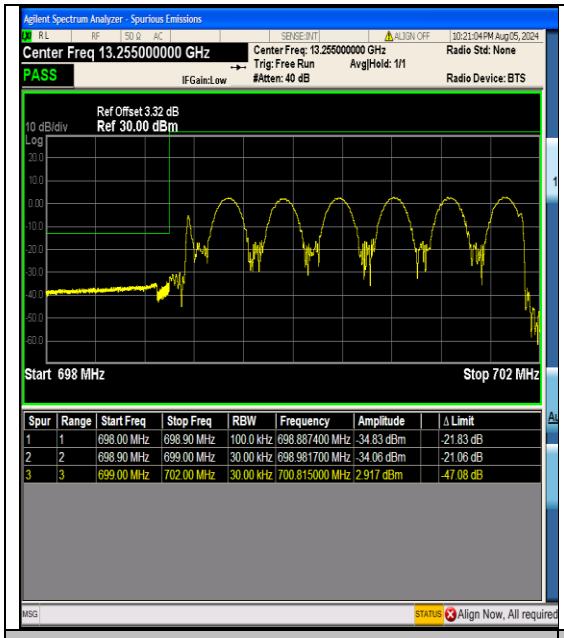
Band12_1.4MHz_16QAM_23173_6RB#0



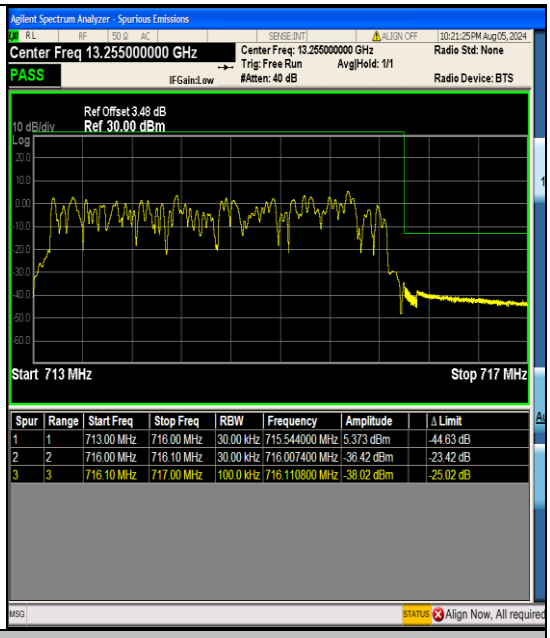
Band12_3MHz_QPSK_23025_15RB#0



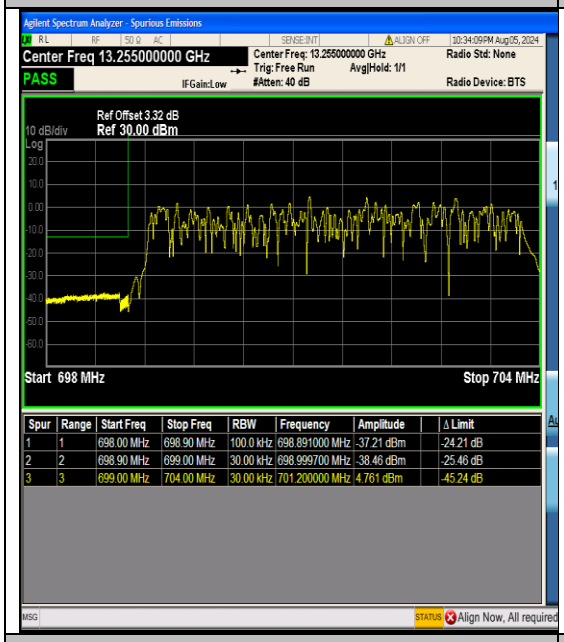
Band12_3MHz_QPSK_23165_15RB#0



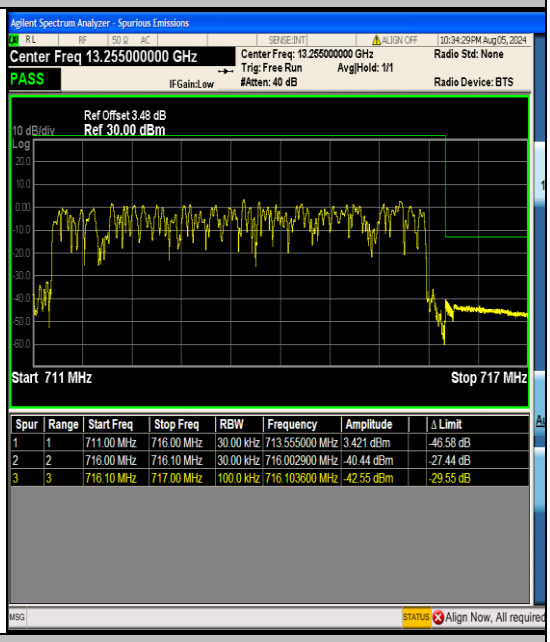
Band12_3MHz_16QAM_23025_15RB#0



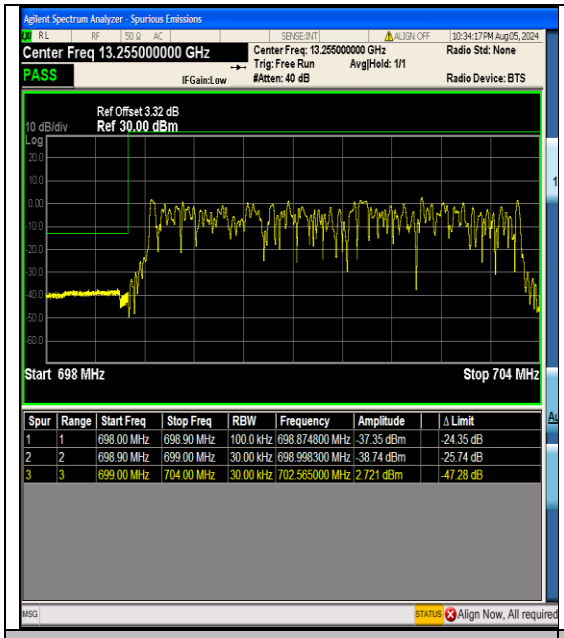
Band12_3MHz_16QAM_23165_15RB#0



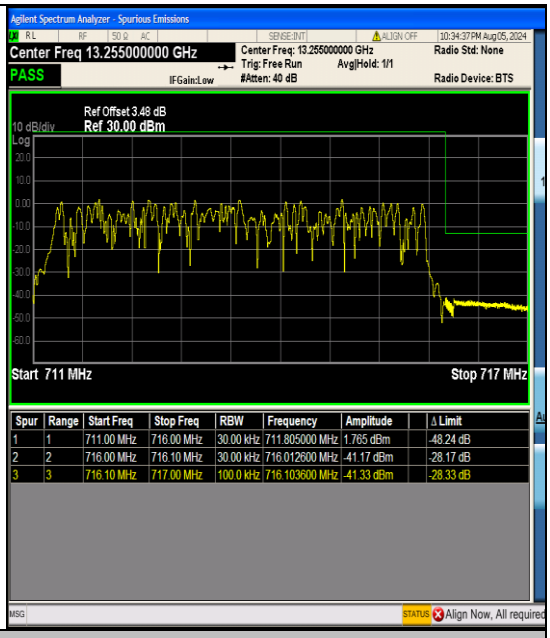
Band12_5MHz_QPSK_23035_25RB#0



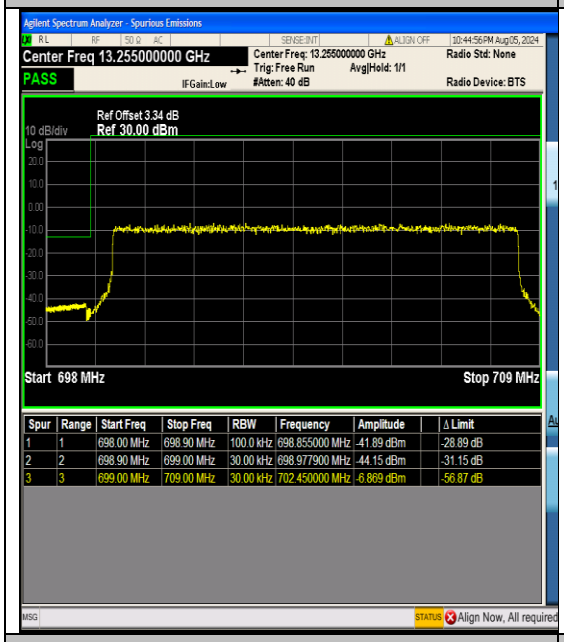
Band12_5MHz_QPSK_23155_25RB#0



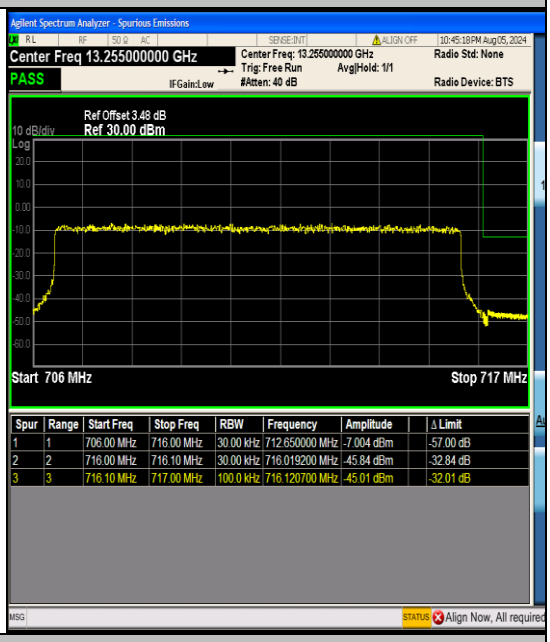
Band12_5MHz_16QAM_23035_25RB#0



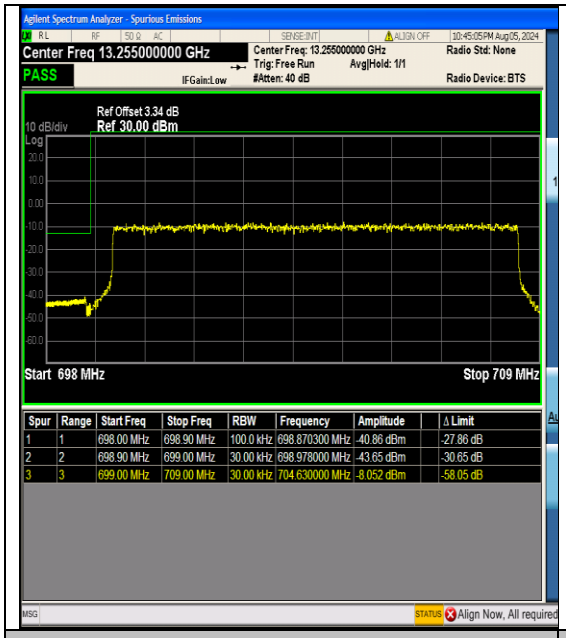
Band12_5MHz_16QAM_23155_25RB#0



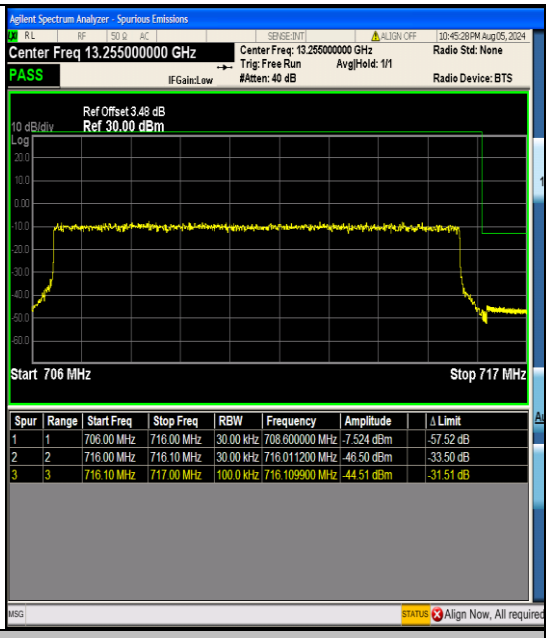
Band12_10MHz_QPSK_23060_50RB#0



Band12_10MHz_QPSK_23130_50RB#0



Band12_10MHz_16QAM_23060_50RB#0



Band12_10MHz_16QAM_23130_50RB#0

Appendix E: Conducted Spurious Emission

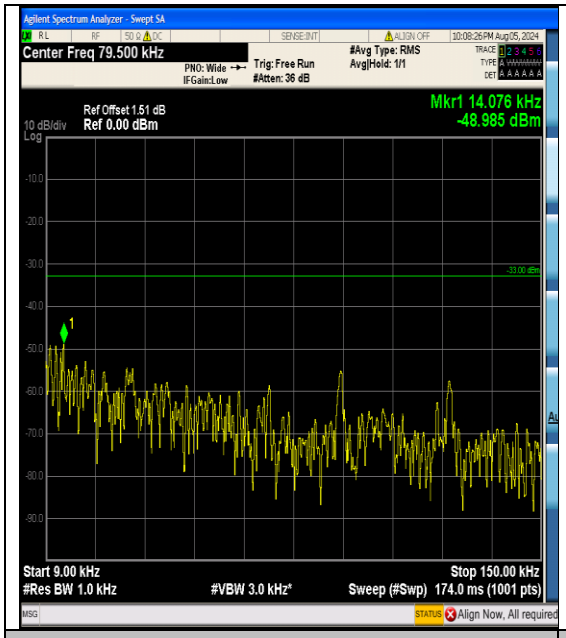
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	0.009~0.15	-48.99	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	0.15~30	-55.58	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	30~1000	-55.43	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	1000~3000	-50.50	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	3000~10000	-48.93	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	0.009~0.15	-47.98	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	0.15~30	-56.44	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	30~1000	-56.74	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1000~3000	-52.31	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	3000~10000	-49.82	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	0.009~0.15	-47.09	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	0.15~30	-53.81	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	30~1000	-55.82	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1000~3000	-51.65	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	3000~10000	-49.70	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	0.009~0.15	-48.94	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	0.15~30	-55.97	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	30~1000	-56.42	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1000~3000	-51.62	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	3000~10000	-49.81	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	0.009~0.15	-47.04	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	0.15~30	-53.94	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	30~1000	-58.37	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1000~3000	-52.79	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	3000~10000	-49.81	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	0.009~0.15	-48.06	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	0.15~30	-56.99	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	30~1000	-58.19	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1000~3000	-52.44	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	3000~10000	-50.00	PASS
Band12	3MHz	QPSK	23025	15RB#0	0.009~0.15	-48.83	PASS
Band12	3MHz	QPSK	23025	15RB#0	0.15~30	-55.10	PASS
Band12	3MHz	QPSK	23025	15RB#0	30~1000	-53.26	PASS
Band12	3MHz	QPSK	23025	15RB#0	1000~3000	-52.37	PASS
Band12	3MHz	QPSK	23025	15RB#0	3000~10000	-49.66	PASS
Band12	3MHz	QPSK	23095	15RB#0	0.009~0.15	-47.88	PASS

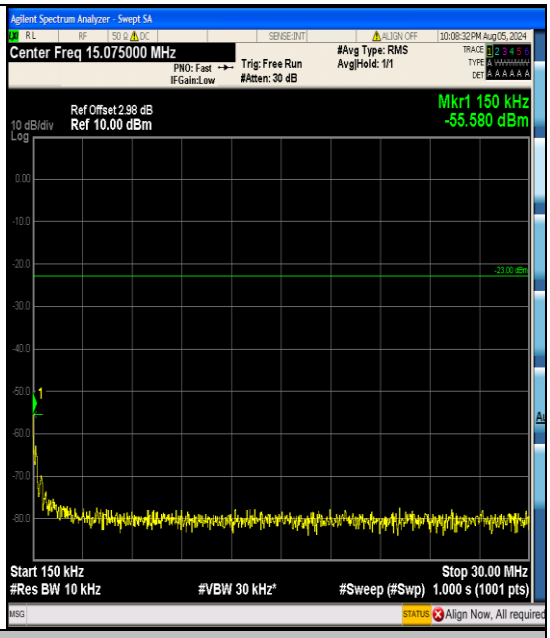
Band12	3MHz	QPSK	23095	15RB#0	0.15~30	-54.99	PASS
Band12	3MHz	QPSK	23095	15RB#0	30~1000	-54.69	PASS
Band12	3MHz	QPSK	23095	15RB#0	1000~3000	-52.43	PASS
Band12	3MHz	QPSK	23095	15RB#0	3000~10000	-49.83	PASS
Band12	3MHz	QPSK	23165	15RB#0	0.009~0.15	-50.64	PASS
Band12	3MHz	QPSK	23165	15RB#0	0.15~30	-53.12	PASS
Band12	3MHz	QPSK	23165	15RB#0	30~1000	-54.16	PASS
Band12	3MHz	QPSK	23165	15RB#0	1000~3000	-52.67	PASS
Band12	3MHz	QPSK	23165	15RB#0	3000~10000	-49.29	PASS
Band12	3MHz	16QAM	23025	15RB#0	0.009~0.15	-48.06	PASS
Band12	3MHz	16QAM	23025	15RB#0	0.15~30	-55.38	PASS
Band12	3MHz	16QAM	23025	15RB#0	30~1000	-54.86	PASS
Band12	3MHz	16QAM	23025	15RB#0	1000~3000	-51.91	PASS
Band12	3MHz	16QAM	23025	15RB#0	3000~10000	-49.98	PASS
Band12	3MHz	16QAM	23095	15RB#0	0.009~0.15	-48.33	PASS
Band12	3MHz	16QAM	23095	15RB#0	0.15~30	-54.39	PASS
Band12	3MHz	16QAM	23095	15RB#0	30~1000	-56.95	PASS
Band12	3MHz	16QAM	23095	15RB#0	1000~3000	-52.71	PASS
Band12	3MHz	16QAM	23095	15RB#0	3000~10000	-49.91	PASS
Band12	3MHz	16QAM	23165	15RB#0	0.009~0.15	-47.79	PASS
Band12	3MHz	16QAM	23165	15RB#0	0.15~30	-54.58	PASS
Band12	3MHz	16QAM	23165	15RB#0	30~1000	-56.28	PASS
Band12	3MHz	16QAM	23165	15RB#0	1000~3000	-52.39	PASS
Band12	3MHz	16QAM	23165	15RB#0	3000~10000	-49.85	PASS
Band12	5MHz	QPSK	23035	25RB#0	0.009~0.15	-45.05	PASS
Band12	5MHz	QPSK	23035	25RB#0	0.15~30	-55.85	PASS
Band12	5MHz	QPSK	23035	25RB#0	30~1000	-55.89	PASS
Band12	5MHz	QPSK	23035	25RB#0	1000~3000	-52.41	PASS
Band12	5MHz	QPSK	23035	25RB#0	3000~10000	-49.48	PASS
Band12	5MHz	QPSK	23095	25RB#0	0.009~0.15	-47.00	PASS
Band12	5MHz	QPSK	23095	25RB#0	0.15~30	-55.34	PASS
Band12	5MHz	QPSK	23095	25RB#0	30~1000	-58.92	PASS
Band12	5MHz	QPSK	23095	25RB#0	1000~3000	-52.47	PASS
Band12	5MHz	QPSK	23095	25RB#0	3000~10000	-50.16	PASS
Band12	5MHz	QPSK	23155	25RB#0	0.009~0.15	-48.80	PASS
Band12	5MHz	QPSK	23155	25RB#0	0.15~30	-53.95	PASS
Band12	5MHz	QPSK	23155	25RB#0	30~1000	-55.67	PASS
Band12	5MHz	QPSK	23155	25RB#0	1000~3000	-52.21	PASS
Band12	5MHz	QPSK	23155	25RB#0	3000~10000	-49.46	PASS
Band12	5MHz	16QAM	23035	25RB#0	0.009~0.15	-48.46	PASS
Band12	5MHz	16QAM	23035	25RB#0	0.15~30	-55.54	PASS
Band12	5MHz	16QAM	23035	25RB#0	30~1000	-57.56	PASS
Band12	5MHz	16QAM	23035	25RB#0	1000~3000	-52.69	PASS

Band12	5MHz	16QAM	23035	25RB#0	3000~10000	-50.07	PASS
Band12	5MHz	16QAM	23095	25RB#0	0.009~0.15	-47.55	PASS
Band12	5MHz	16QAM	23095	25RB#0	0.15~30	-57.71	PASS
Band12	5MHz	16QAM	23095	25RB#0	30~1000	-60.01	PASS
Band12	5MHz	16QAM	23095	25RB#0	1000~3000	-52.51	PASS
Band12	5MHz	16QAM	23095	25RB#0	3000~10000	-50.02	PASS
Band12	5MHz	16QAM	23155	25RB#0	0.009~0.15	-45.97	PASS
Band12	5MHz	16QAM	23155	25RB#0	0.15~30	-55.55	PASS
Band12	5MHz	16QAM	23155	25RB#0	30~1000	-58.59	PASS
Band12	5MHz	16QAM	23155	25RB#0	1000~3000	-52.50	PASS
Band12	5MHz	16QAM	23155	25RB#0	3000~10000	-49.71	PASS
Band12	10MHz	QPSK	23060	50RB#0	0.009~0.15	-49.25	PASS
Band12	10MHz	QPSK	23060	50RB#0	0.15~30	-54.40	PASS
Band12	10MHz	QPSK	23060	50RB#0	30~1000	-66.47	PASS
Band12	10MHz	QPSK	23060	50RB#0	1000~3000	-52.58	PASS
Band12	10MHz	QPSK	23060	50RB#0	3000~10000	-50.00	PASS
Band12	10MHz	QPSK	23095	50RB#0	0.009~0.15	-46.86	PASS
Band12	10MHz	QPSK	23095	50RB#0	0.15~30	-54.59	PASS
Band12	10MHz	QPSK	23095	50RB#0	30~1000	-66.36	PASS
Band12	10MHz	QPSK	23095	50RB#0	1000~3000	-52.65	PASS
Band12	10MHz	QPSK	23095	50RB#0	3000~10000	-49.90	PASS
Band12	10MHz	QPSK	23130	50RB#0	0.009~0.15	-45.39	PASS
Band12	10MHz	QPSK	23130	50RB#0	0.15~30	-54.12	PASS
Band12	10MHz	QPSK	23130	50RB#0	30~1000	-65.83	PASS
Band12	10MHz	QPSK	23130	50RB#0	1000~3000	-52.56	PASS
Band12	10MHz	QPSK	23130	50RB#0	3000~10000	-49.75	PASS
Band12	10MHz	16QAM	23060	50RB#0	0.009~0.15	-46.03	PASS
Band12	10MHz	16QAM	23060	50RB#0	0.15~30	-53.75	PASS
Band12	10MHz	16QAM	23060	50RB#0	30~1000	-66.49	PASS
Band12	10MHz	16QAM	23060	50RB#0	1000~3000	-52.53	PASS
Band12	10MHz	16QAM	23060	50RB#0	3000~10000	-49.26	PASS
Band12	10MHz	16QAM	23095	50RB#0	0.009~0.15	-48.03	PASS
Band12	10MHz	16QAM	23095	50RB#0	0.15~30	-55.60	PASS
Band12	10MHz	16QAM	23095	50RB#0	30~1000	-66.55	PASS
Band12	10MHz	16QAM	23095	50RB#0	1000~3000	-52.69	PASS
Band12	10MHz	16QAM	23095	50RB#0	3000~10000	-49.95	PASS
Band12	10MHz	16QAM	23130	50RB#0	0.009~0.15	-46.48	PASS
Band12	10MHz	16QAM	23130	50RB#0	0.15~30	-54.89	PASS
Band12	10MHz	16QAM	23130	50RB#0	30~1000	-66.46	PASS
Band12	10MHz	16QAM	23130	50RB#0	1000~3000	-52.73	PASS
Band12	10MHz	16QAM	23130	50RB#0	3000~10000	-49.34	PASS

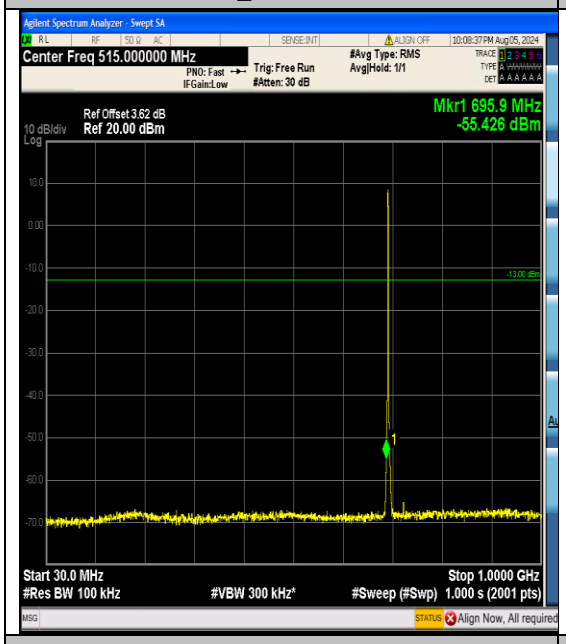
Test Graphs



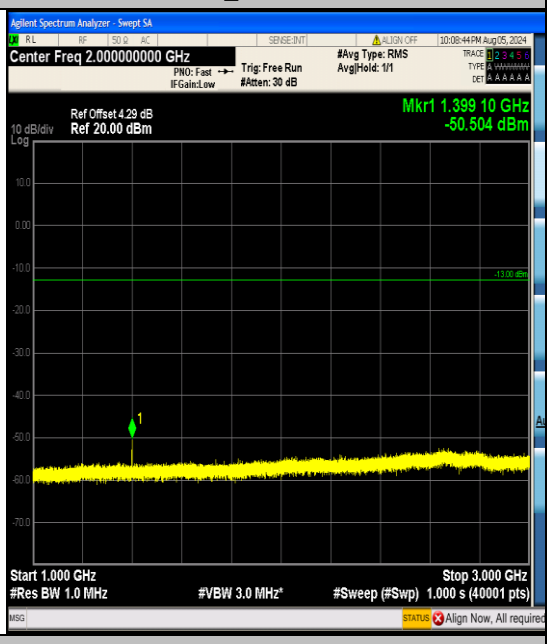
Band12_1.4MHz_QPSK_23017_6RB#0_0.009~0.15_0.009~0.15



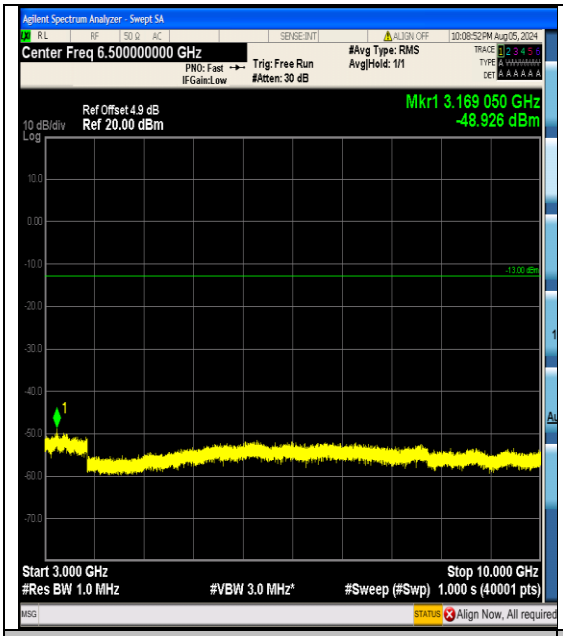
Band12_1.4MHz_QPSK_23017_6RB#0_0.15~30_0.15~30



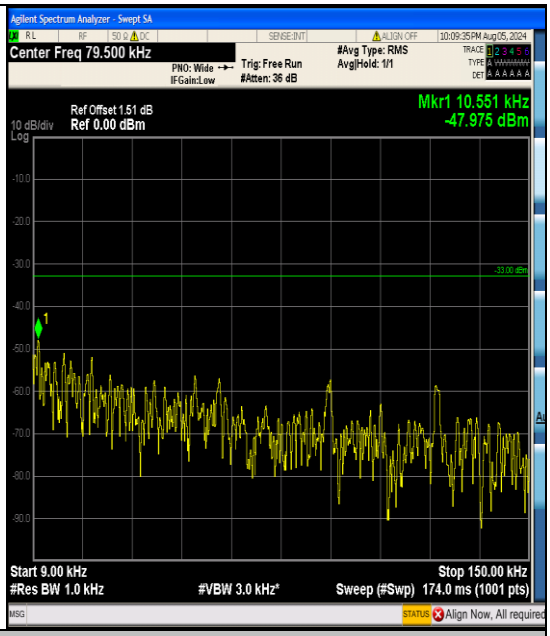
Band12_1.4MHz_QPSK_23017_6RB#0_30~1000_30~1000



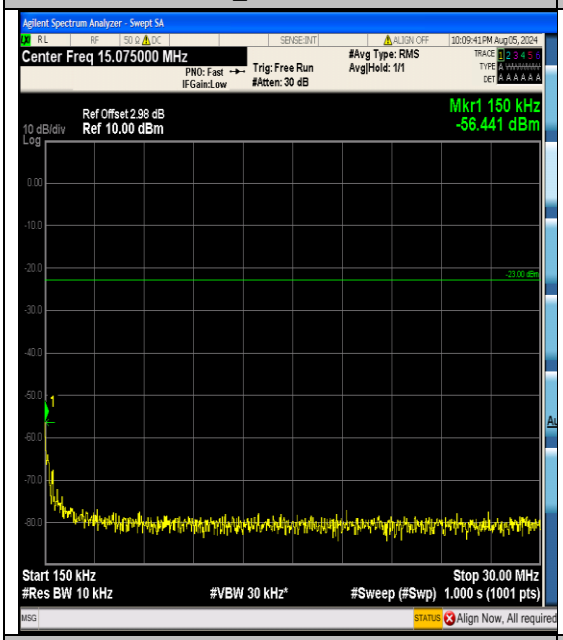
Band12_1.4MHz_QPSK_23017_6RB#0_1000~3000_1000~3000



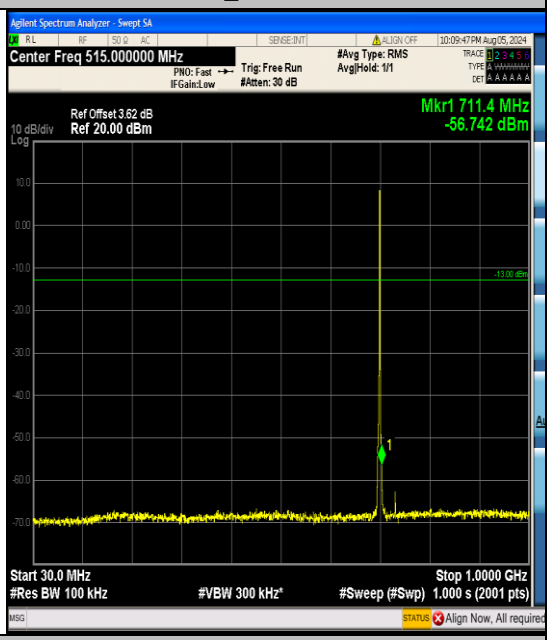
Band12_1.4MHz_QPSK_23017_6RB#0_3000~10000_3000~10000



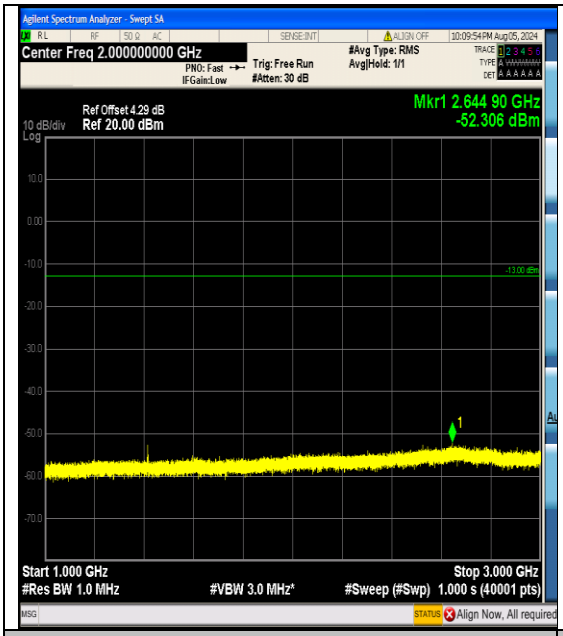
Band12_1.4MHz_QPSK_23095_6RB#0_0.009~0.15_0.009~0.15



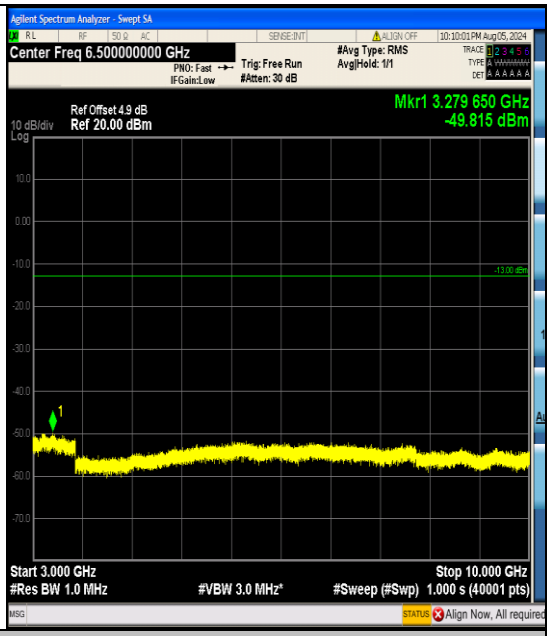
Band12_1.4MHz_QPSK_23095_6RB#0_0.15~30_0.15~30



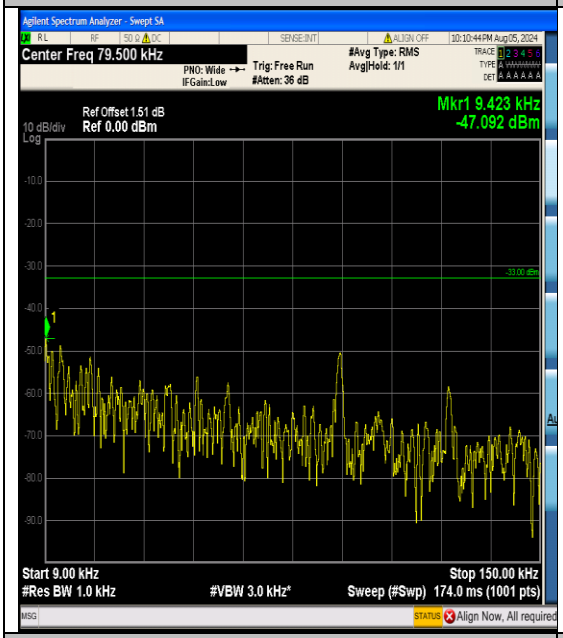
Band12_1.4MHz_QPSK_23095_6RB#0_30~1000_30~1000



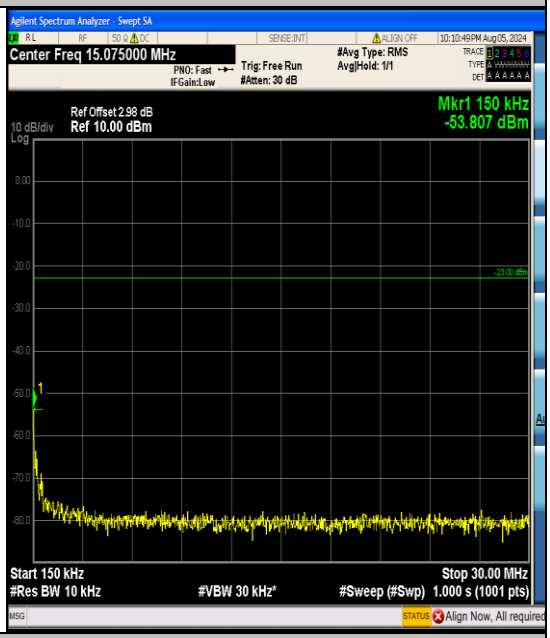
Band12_1.4MHz_QPSK_23095_6RB#0_1000~3000_1000~3000



Band12_1.4MHz_QPSK_23095_6RB#0_3000~10000_3000~10000



Band12_1.4MHz_QPSK_23173_6RB#0_0.009~0.15_0.009~0.15



Band12_1.4MHz_QPSK_23173_6RB#0_0.15~30_0.15~30