FCC LTE Band Test Data

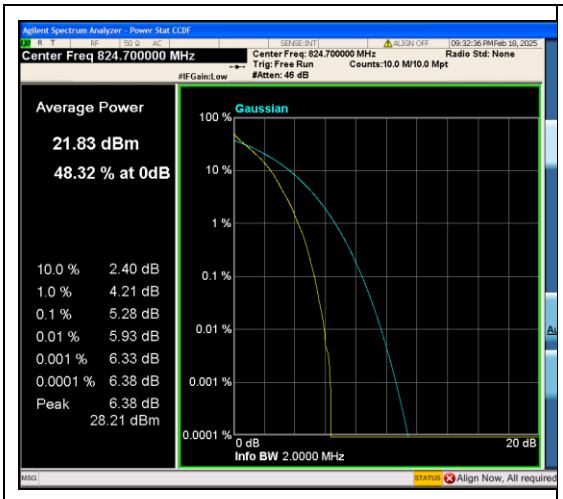
FCC ID	**:**	**2BN2I-QF9007**
Company:	**:**	**Shenzhen Qian feng INFORMATION Technology Co., LTD.**
EUT	**:**	**Vehicle navigation**
Model Number	**:**	**QF9007**
Reviewed By	**:**	**Eric Wang**

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

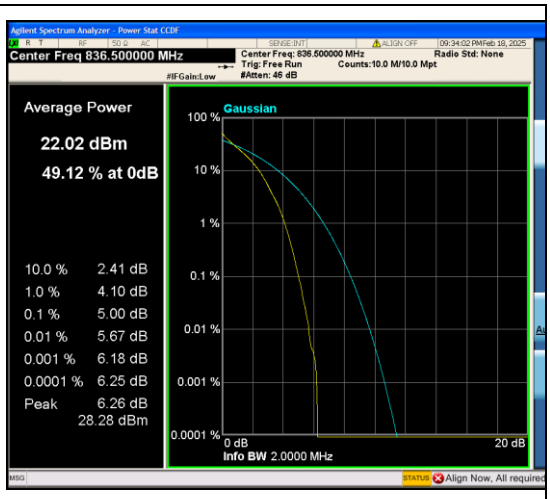
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	5.28	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.00	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.01	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.01	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.66	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.53	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.39	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.28	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.32	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.18	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.90	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.04	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.51	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.26	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.31	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.15	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.83	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.00	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.46	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.37	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.45	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.13	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.94	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.22	13	PASS

Test Graphs



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



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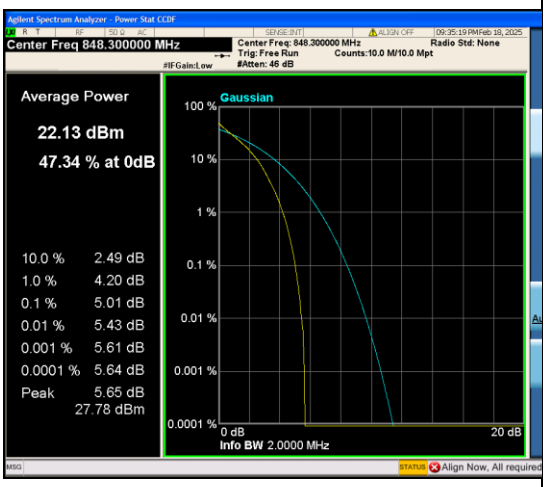
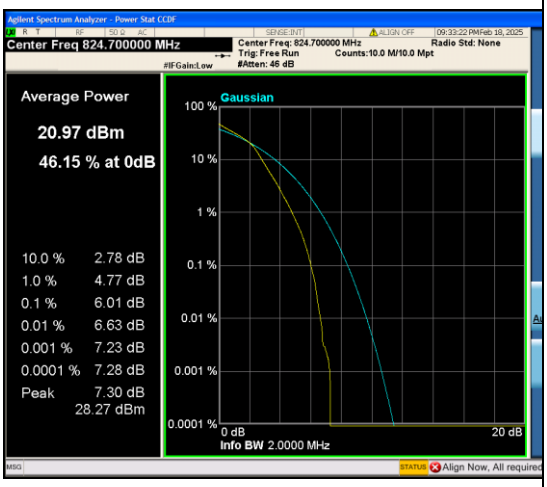
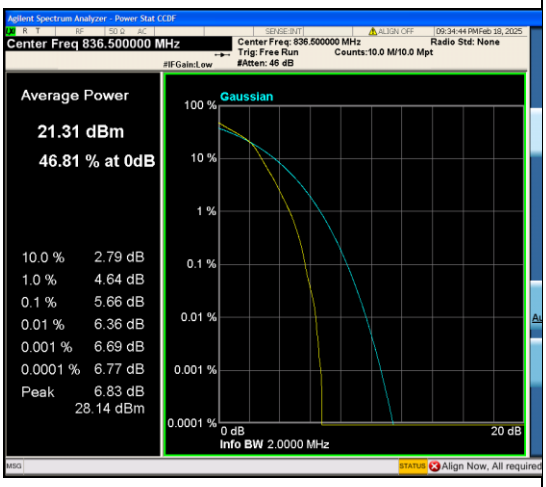


Band5-1.4MHz-QPSK-20643-6RB#0-PASS



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



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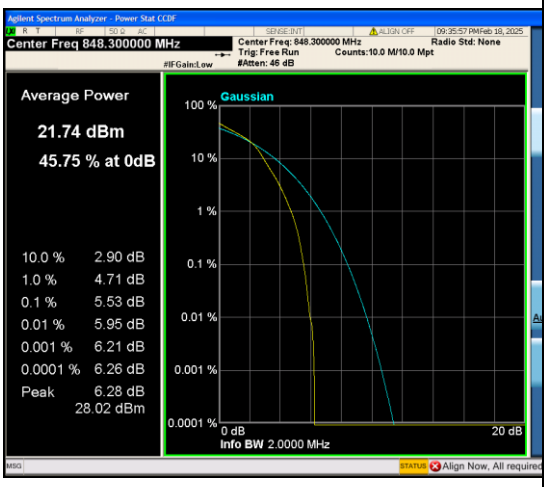

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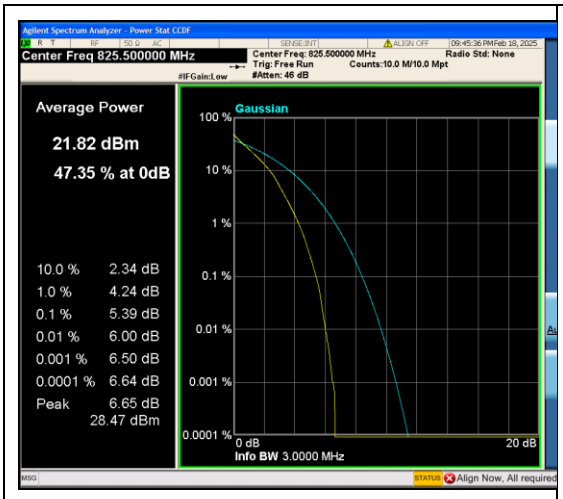
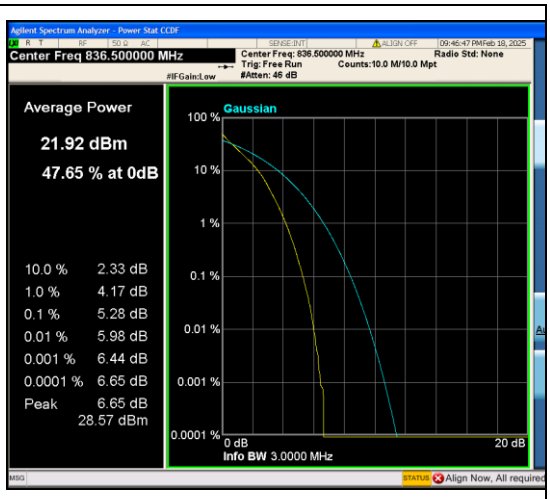


Band5-3MHz-QPSK-20415-15RB#0-PASS



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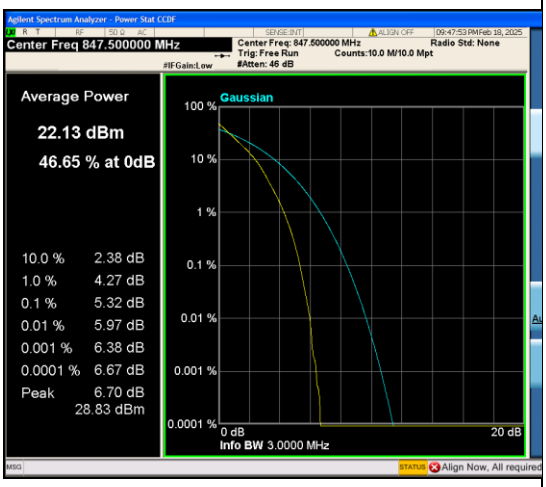
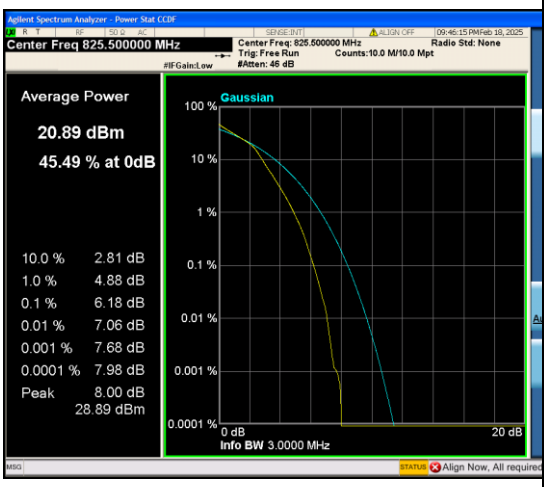


Band5-3MHz-QPSK-20635-15RB#0-PASS



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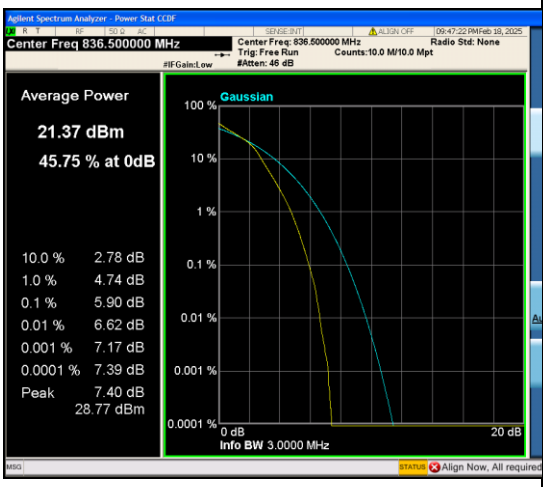

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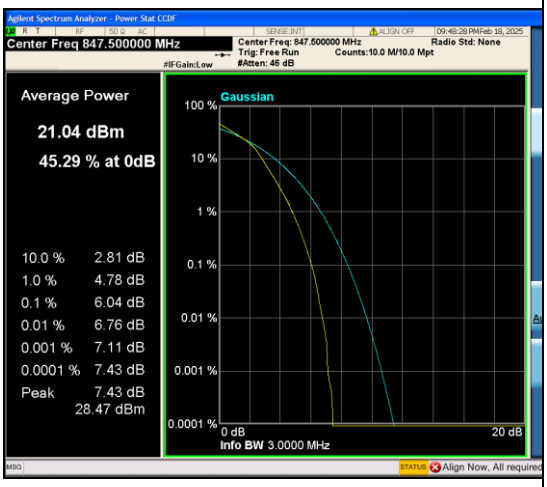

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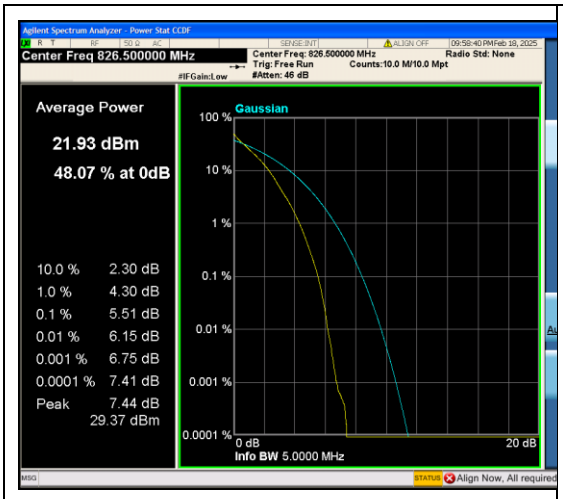
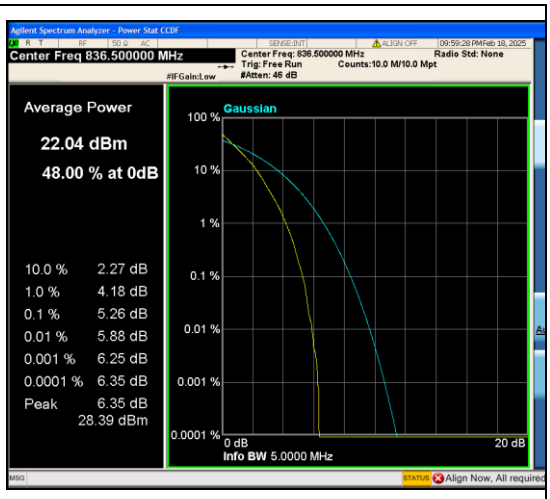


Band5-5MHz-QPSK-20425-25RB#0-PASS



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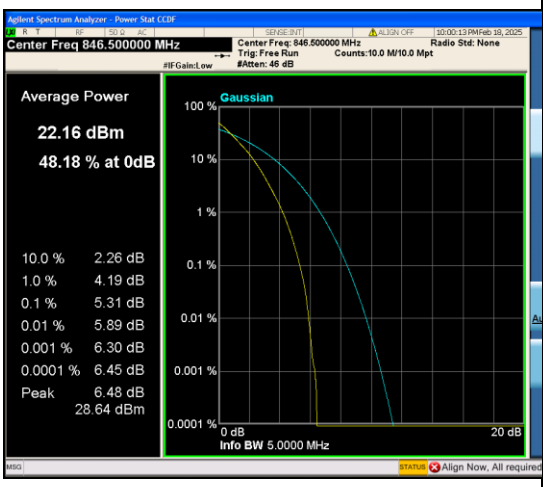

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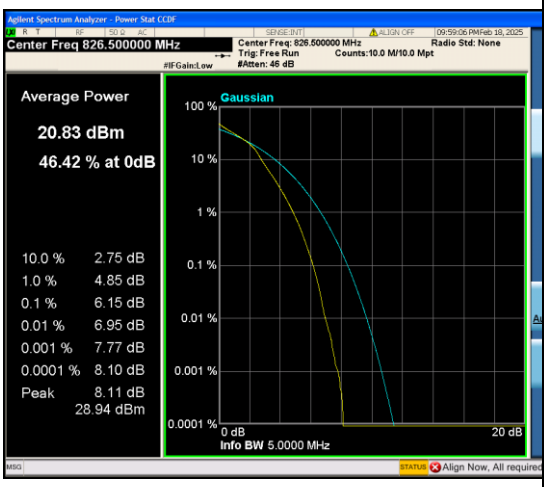

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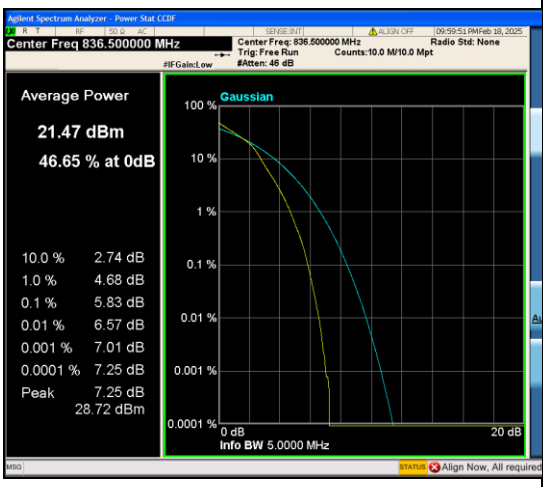

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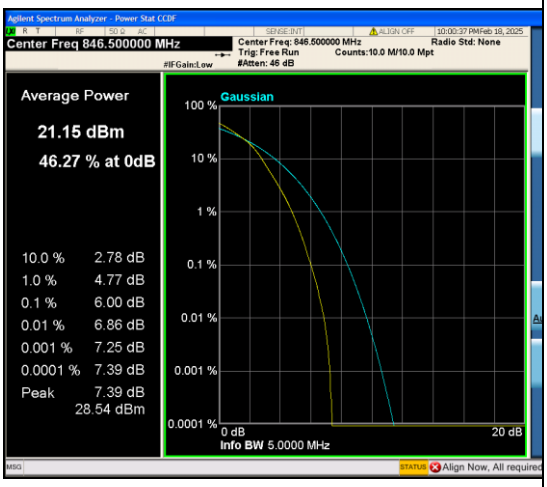

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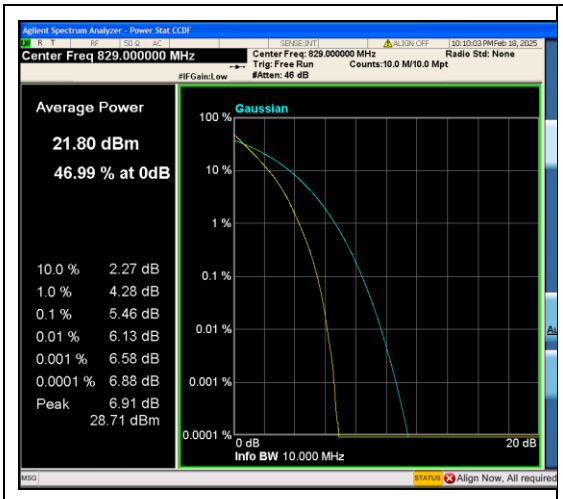
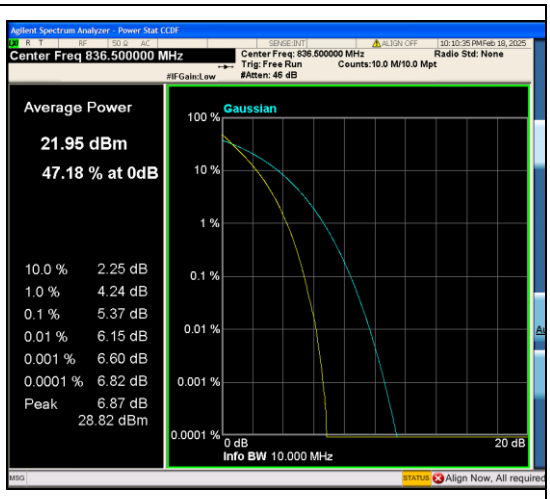
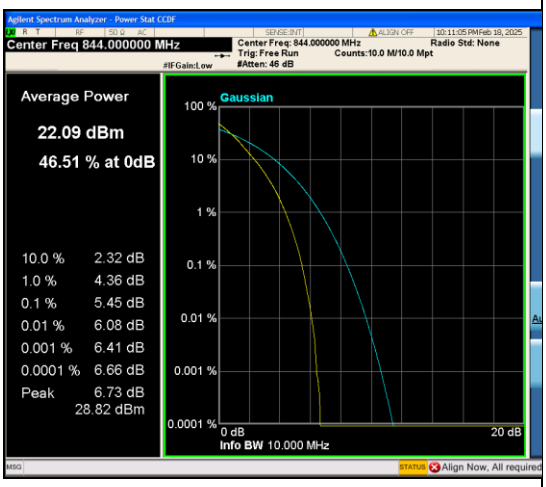


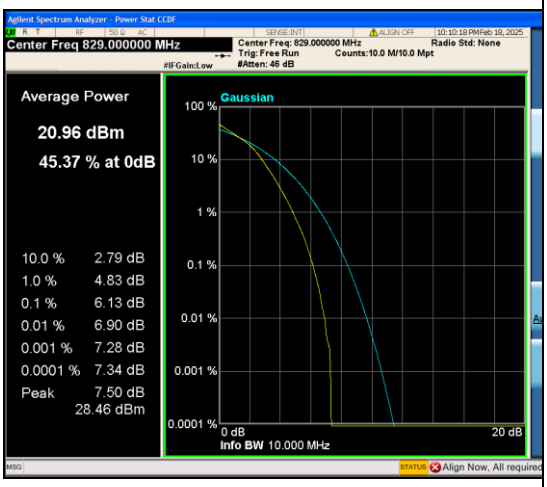
Band5-10MHz-QPSK-20450-50RB#0-PASS



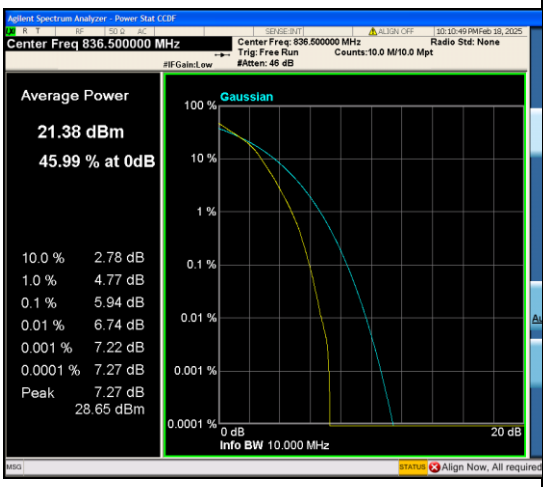
Band5-10MHz-QPSK-20525-50RB#0-PASS



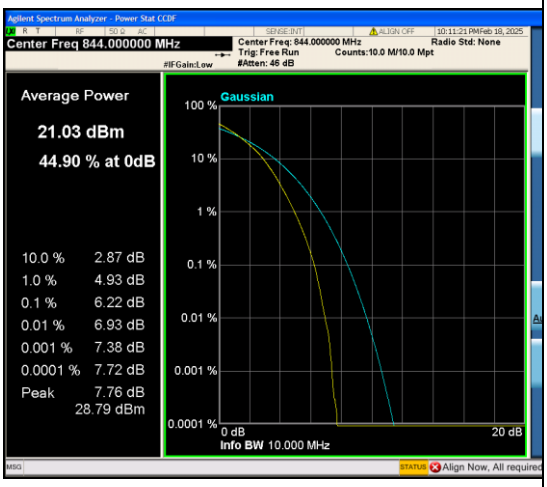
Band5-10MHz-QPSK-20600-50RB#0-PASS



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



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



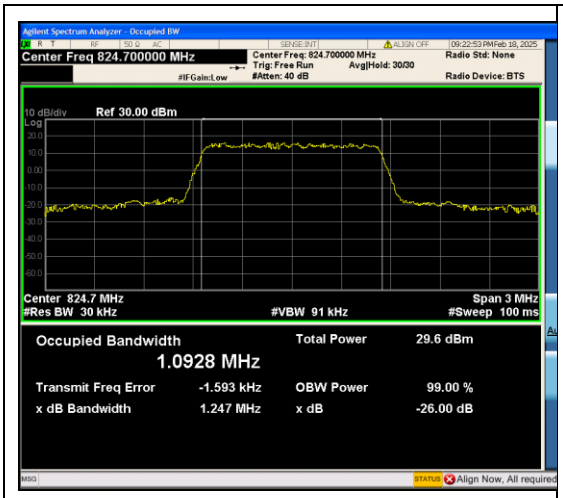
Band5-10MHz-16QAM-20600-50RB#0-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

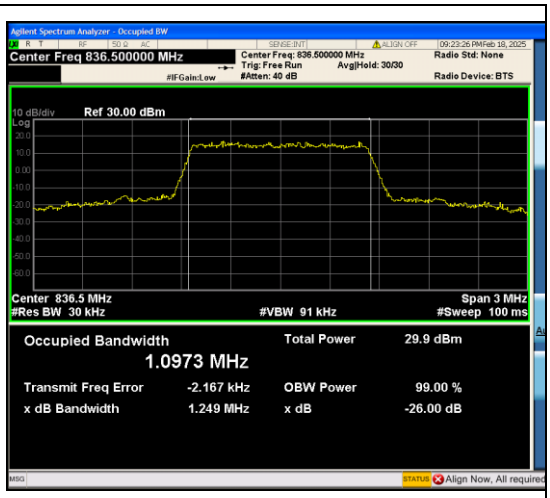
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0928	1.247	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0973	1.249	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.1021	1.254	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.1058	1.254	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1031	1.253	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0946	1.268	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7158	3.023	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7070	3.033	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7021	3.044	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.7092	3.035	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7093	3.055	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6992	3.027	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5138	4.998	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5040	4.969	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4964	4.991	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5083	4.993	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5153	5.024	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5134	4.992	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9897	9.913	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9932	9.965	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9701	9.873	PASS
Band5	10MHz	16QAM	20450	50RB#0	9.0030	9.917	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9983	9.949	PASS
Band5	10MHz	16QAM	20600	50RB#0	9.0031	9.890	PASS

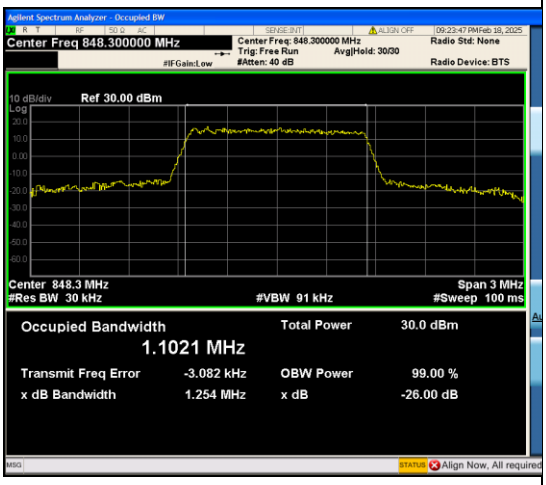
Test Graphs



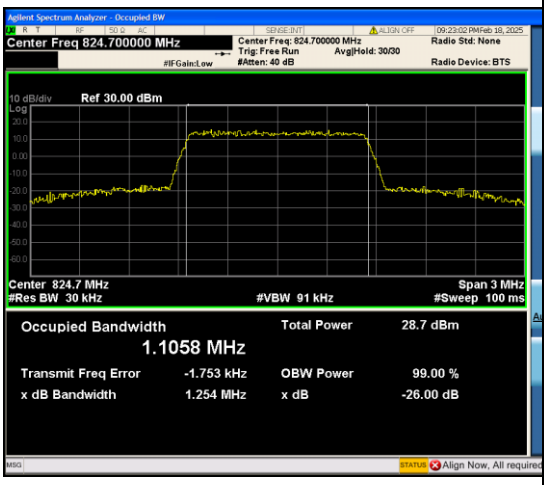
Band5-1.4MHz-QPSK-20407-6RB#0-PASS



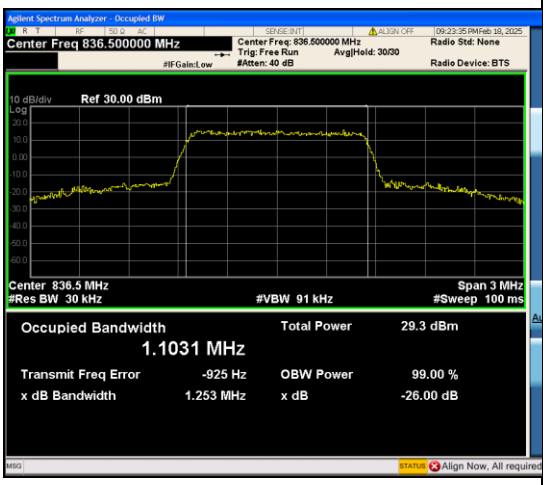
Band5-1.4MHz-QPSK-20525-6RB#0-PASS



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



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



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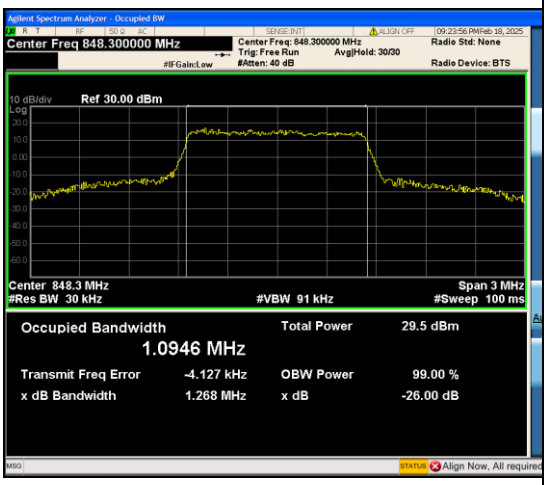
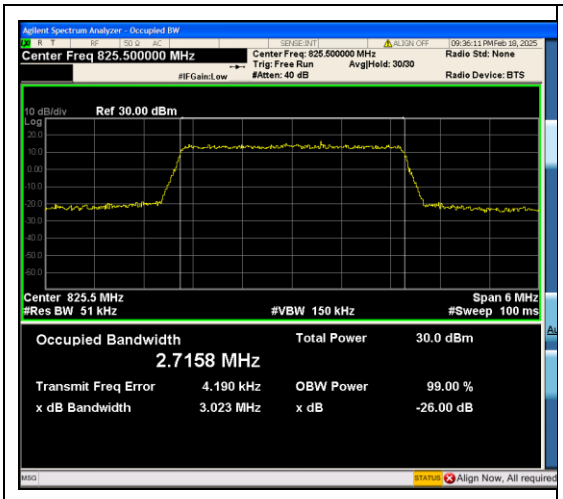
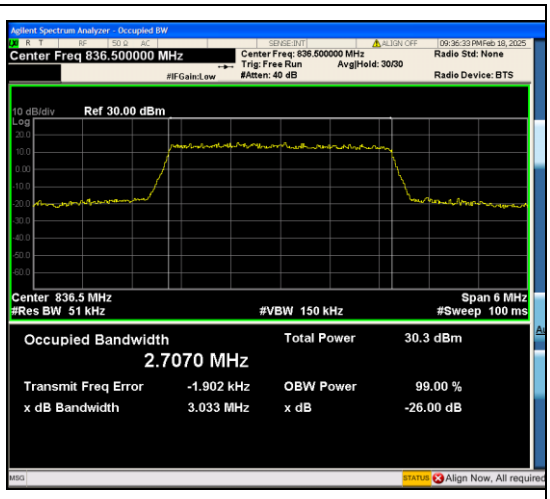


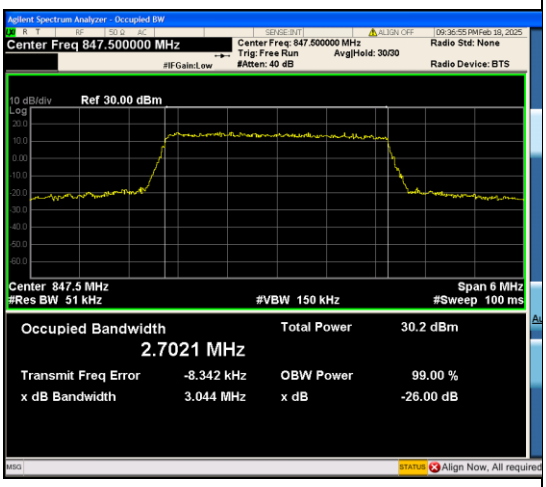
Band5-1.4MHz-16QAM-20643-6RB#0-PASS



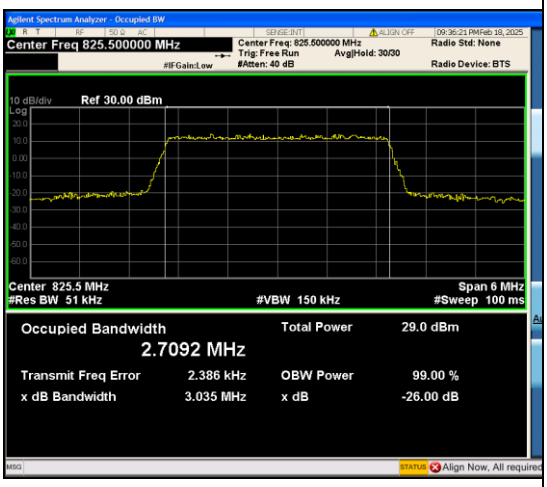
Band5-3MHz-QPSK-20415-15RB#0-PASS



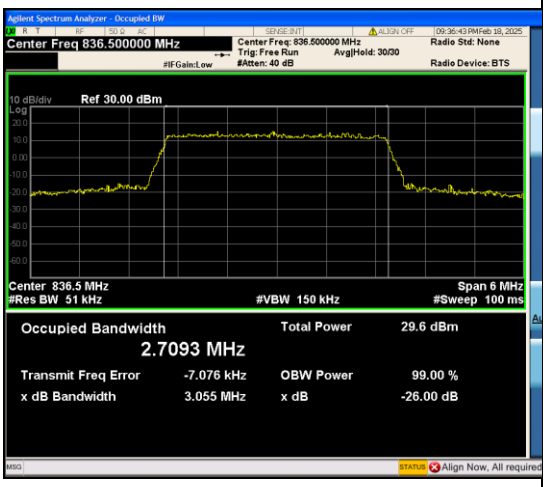
Band5-3MHz-QPSK-20525-15RB#0-PASS



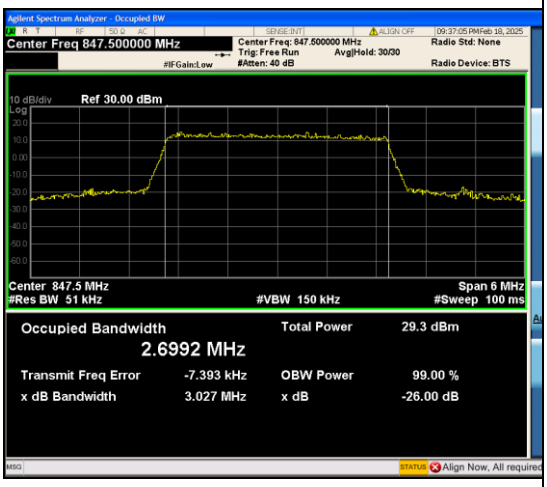
Band5-3MHz-QPSK-20635-15RB#0-PASS



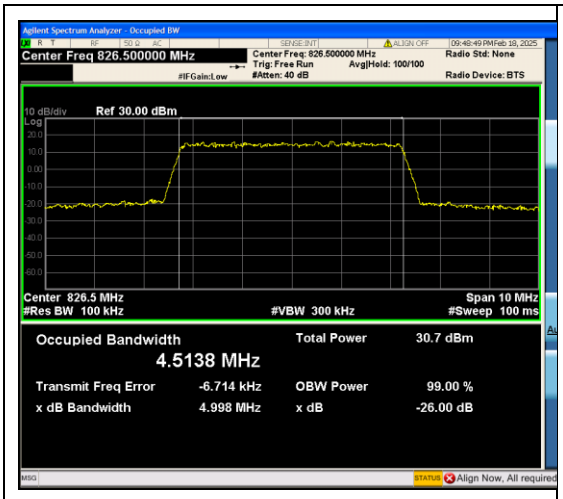
Band5-3MHz-16QAM-20415-15RB#0-PASS



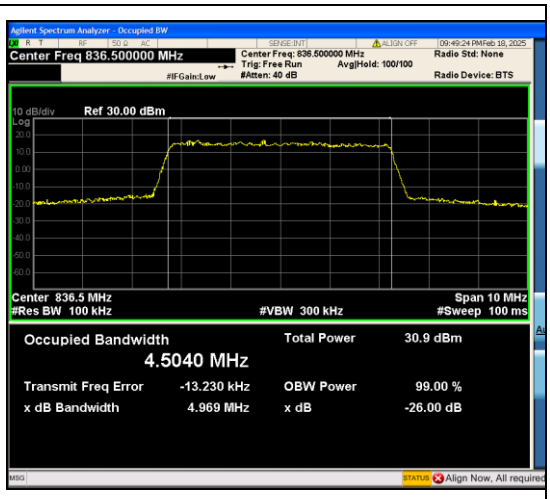
Band5-3MHz-16QAM-20525-15RB#0-PASS



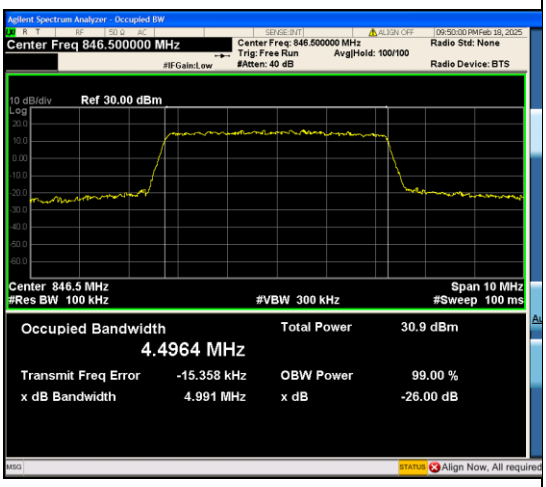
Band5-3MHz-16QAM-20635-15RB#0-PASS



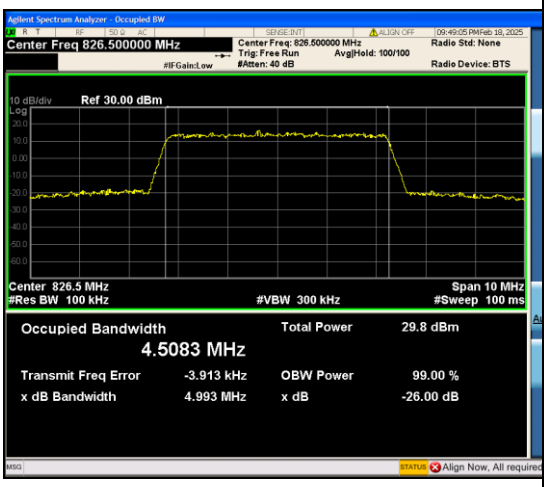
Band5-5MHz-QPSK-20425-25RB#0-PASS



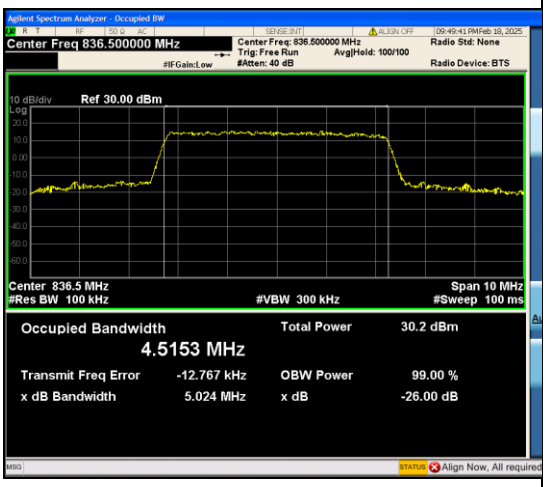
Band5-5MHz-QPSK-20525-25RB#0-PASS



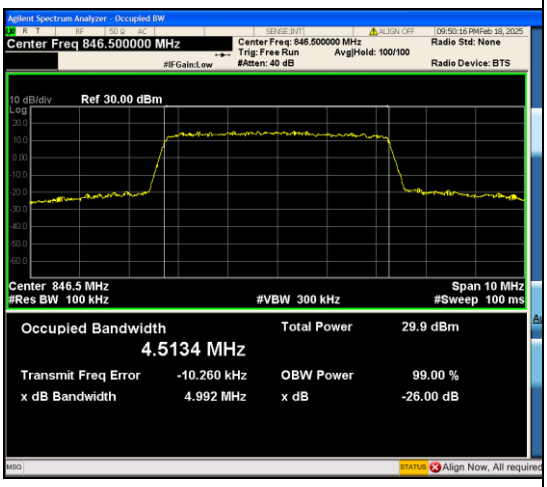
Band5-5MHz-QPSK-20625-25RB#0-PASS



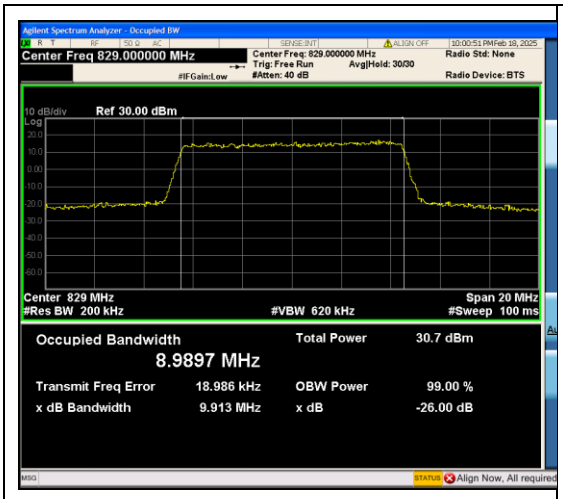
Band5-5MHz-16QAM-20425-25RB#0-PASS



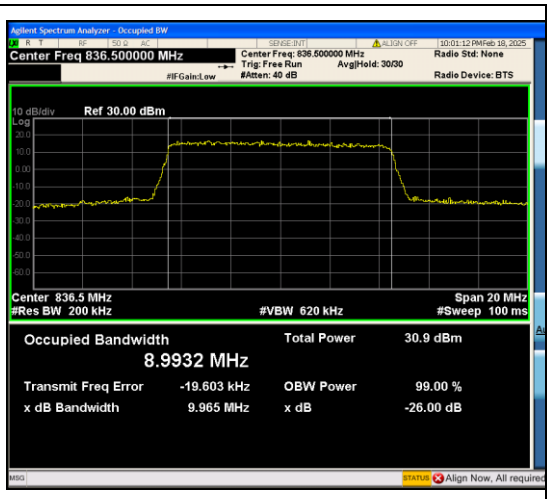
Band5-5MHz-16QAM-20525-25RB#0-PASS



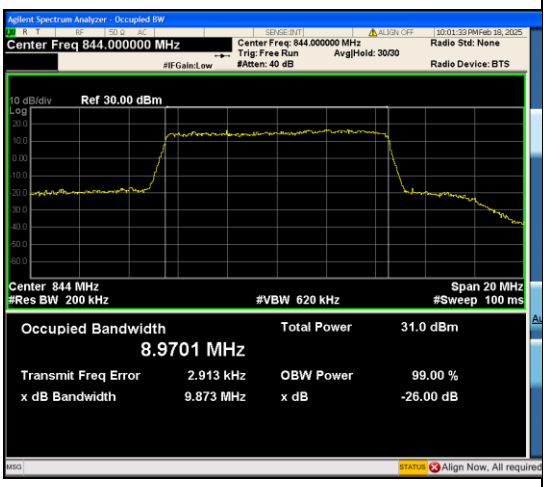
Band5-5MHz-16QAM-20625-25RB#0-PASS



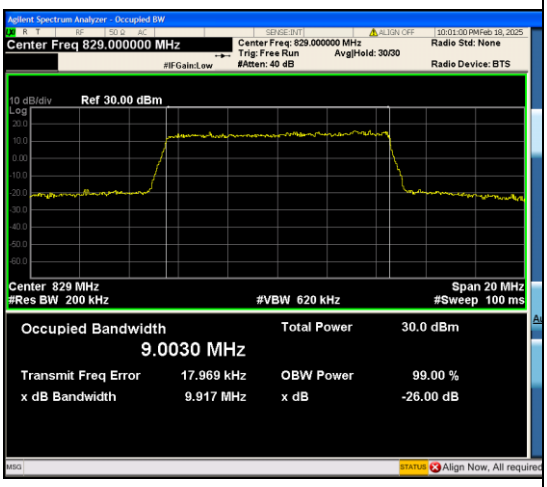
Band5-10MHz-QPSK-20450-50RB#0-PASS



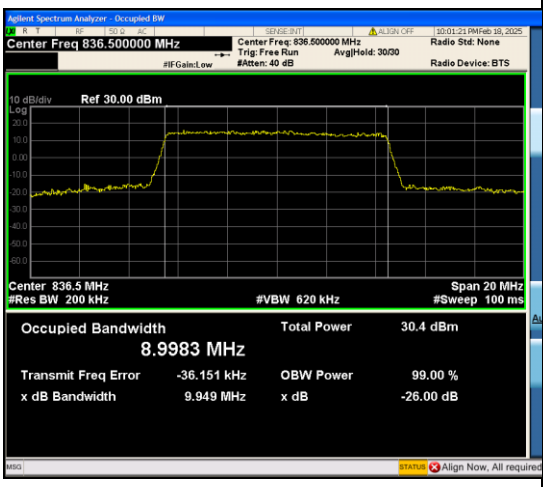
Band5-10MHz-QPSK-20525-50RB#0-PASS



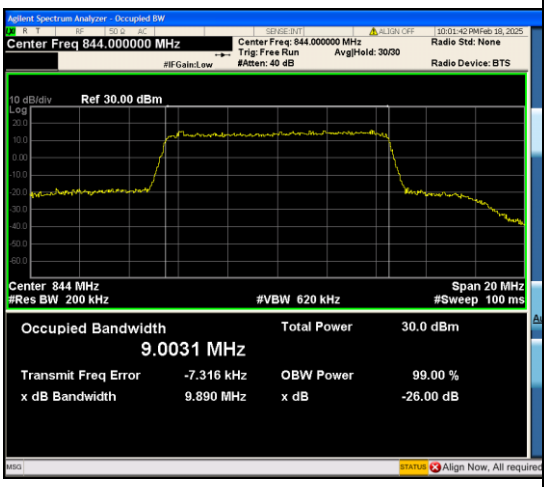
Band5-10MHz-QPSK-20600-50RB#0-PASS



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



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



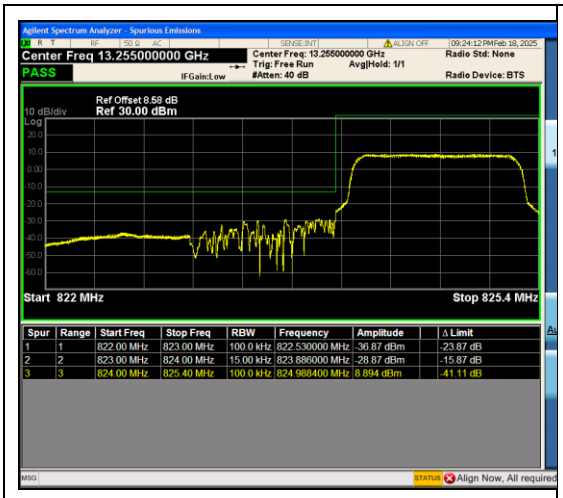
Band5-10MHz-16QAM-20600-50RB#0-PASS

Appendix D: Band Edge

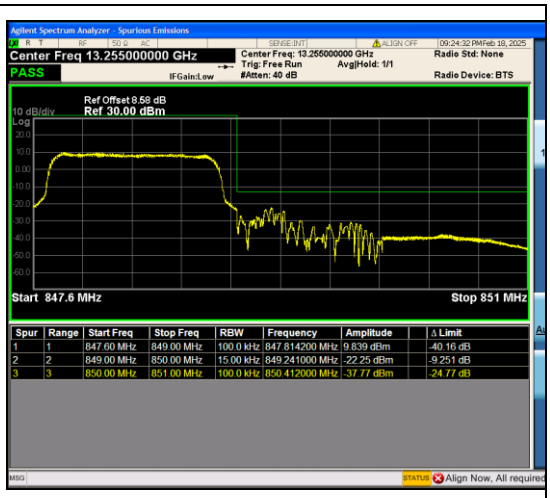
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	-28.87	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-22.25	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-25.78	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-24.92	PASS
Band5	3MHz	QPSK	20415	15RB#0	-26.61	PASS
Band5	3MHz	QPSK	20635	15RB#0	-27.82	PASS
Band5	3MHz	16QAM	20415	15RB#0	-29.16	PASS
Band5	3MHz	16QAM	20635	15RB#0	-29.85	PASS
Band5	5MHz	QPSK	20425	25RB#0	-31.42	PASS
Band5	5MHz	QPSK	20625	25RB#0	-32.09	PASS
Band5	5MHz	16QAM	20425	25RB#0	-31.94	PASS
Band5	5MHz	16QAM	20625	25RB#0	-32.32	PASS
Band5	10MHz	QPSK	20450	50RB#0	-33.00	PASS
Band5	10MHz	QPSK	20600	50RB#0	-33.72	PASS
Band5	10MHz	16QAM	20450	50RB#0	-34.08	PASS
Band5	10MHz	16QAM	20600	50RB#0	-34.44	PASS

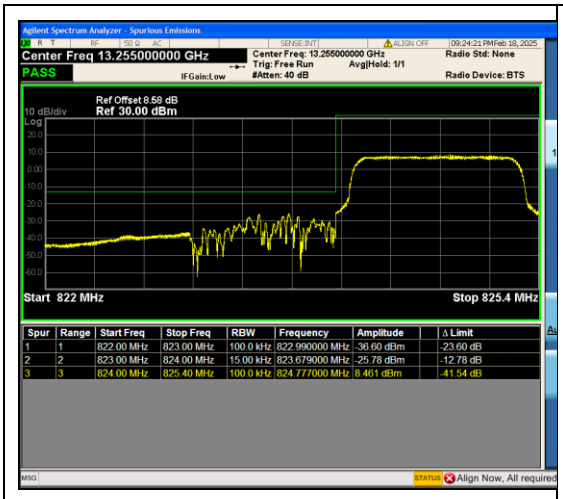
Test Graphs



Band5_1.4MHz_QPSK_20407_6RB#0

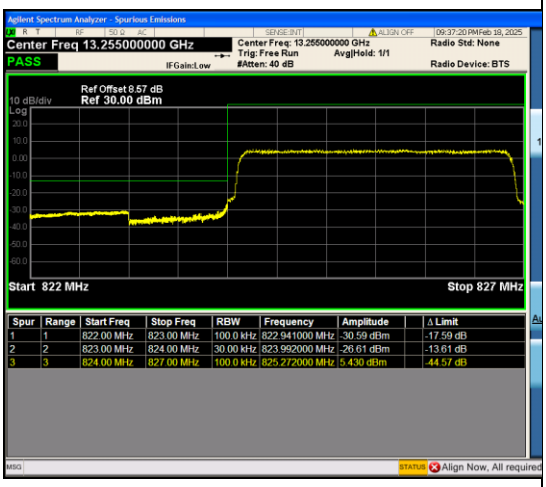


Band5_1.4MHz_QPSK_20643_6RB#0

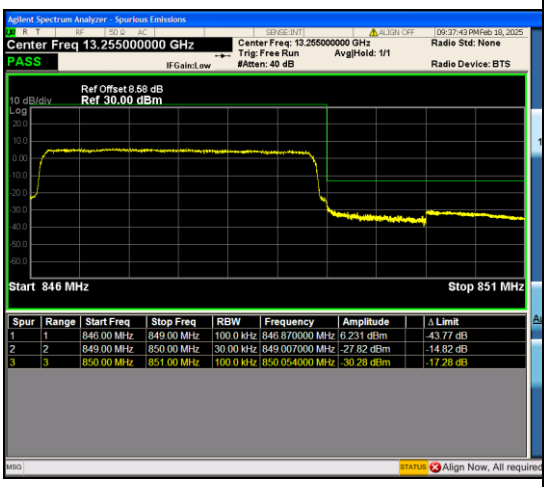


Band5_1.4MHz_16QAM_20407_6RB#0

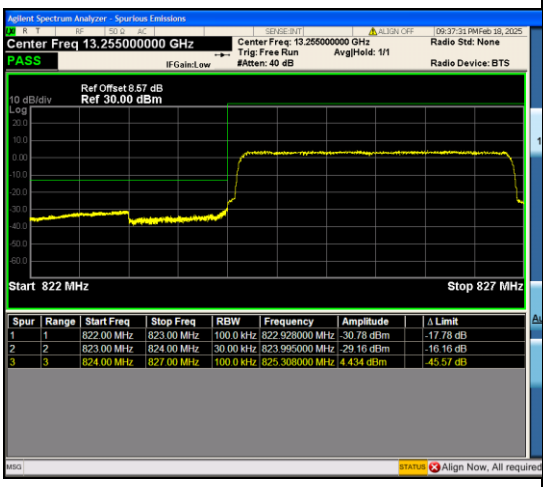
Band5_1.4MHz_16QAM_20643_6RB#0



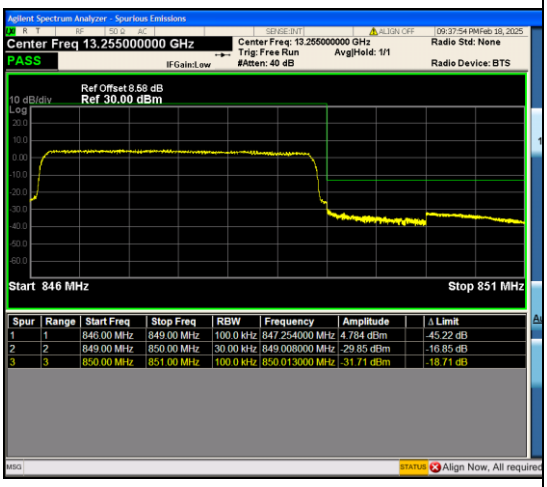
Band5_3MHz_QPSK_20415_15RB#0



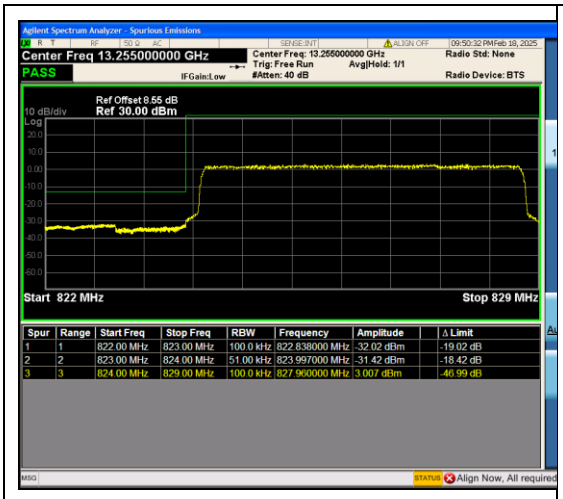
Band5_3MHz_QPSK_20635_15RB#0



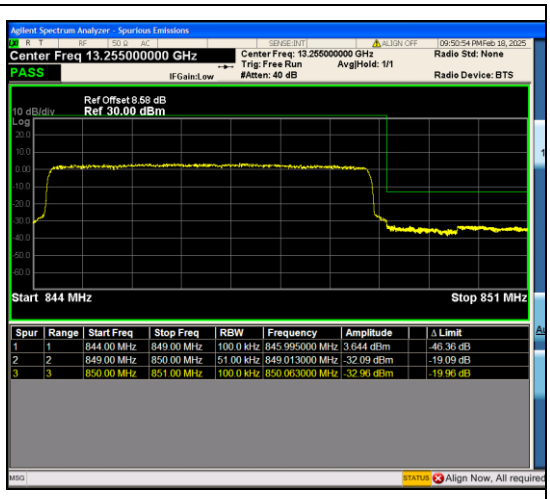
Band5_3MHz_16QAM_20415_15RB#0



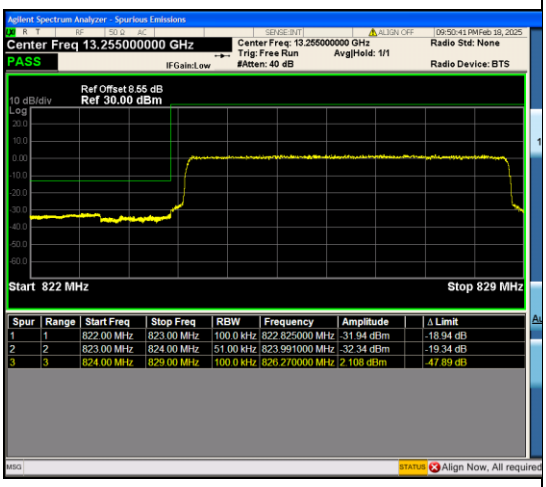
Band5_3MHz_16QAM_20635_15RB#0



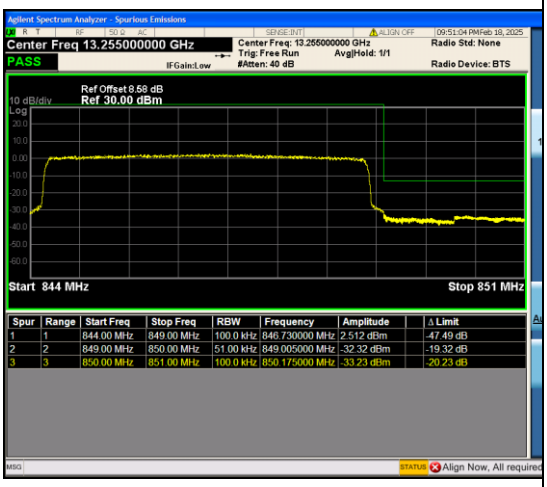
Band5_5MHz_QPSK_20425_25RB#0



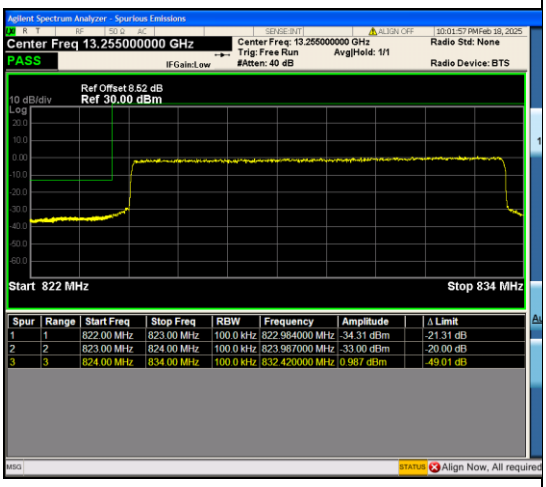
Band5_5MHz_QPSK_20625_25RB#0



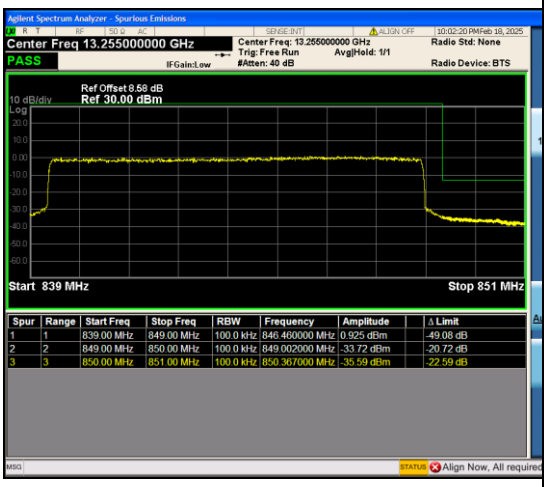
Band5_5MHz_16QAM_20425_25RB#0



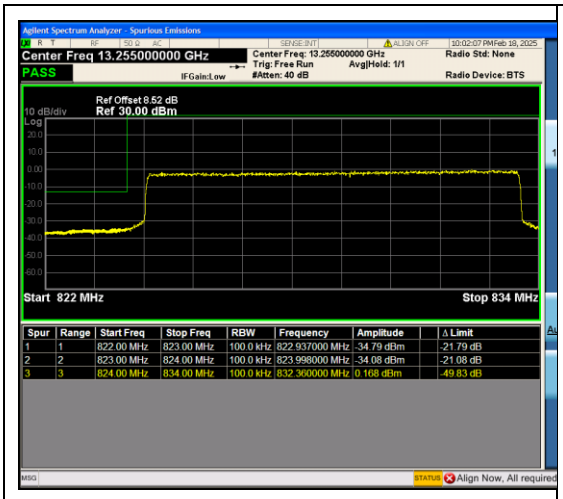
Band5_5MHz_16QAM_20625_25RB#0



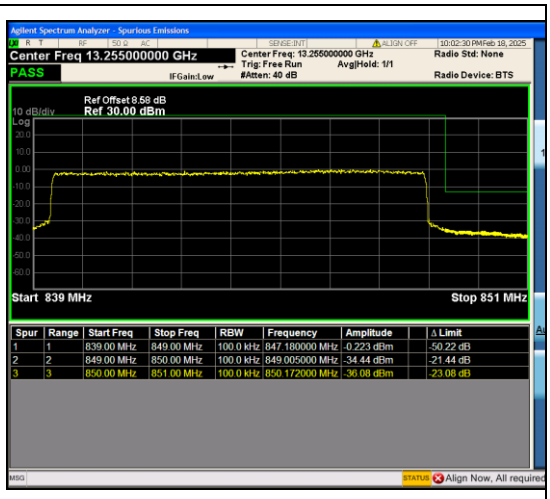
Band5_10MHz_QPSK_20450_50RB#0



Band5_10MHz_QPSK_20600_50RB#0



Band5_10MHz_16QAM_20450_50RB#0



Band5_10MHz_16QAM_20600_50RB#0

Appendix E: Conducted Spurious Emission

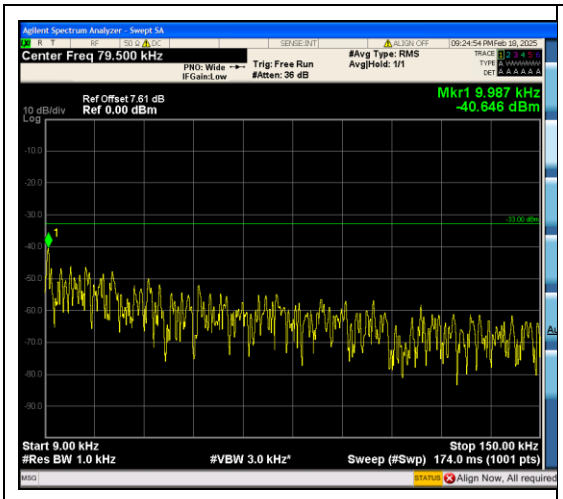
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	0.009~0.15	-40.65	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	0.15~30	-55.44	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	30~1000	-46.12	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	1000~3000	-45.72	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	3000~10000	-43.59	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.009~0.15	-40.99	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.15~30	-53.78	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	30~1000	-47.02	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1000~3000	-46.71	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	3000~10000	-43.39	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.009~0.15	-41.49	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.15~30	-53.16	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	30~1000	-43.61	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1000~3000	-46.85	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	3000~10000	-42.97	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.009~0.15	-43.63	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.15~30	-53.76	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	30~1000	-48.57	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1000~3000	-46.96	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	3000~10000	-43.34	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.009~0.15	-40.46	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.15~30	-54.09	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	30~1000	-48.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1000~3000	-47.06	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	3000~10000	-43.55	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.009~0.15	-40.61	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.15~30	-54.58	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	30~1000	-44.28	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1000~3000	-46.91	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	3000~10000	-43.85	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.009~0.15	-43.14	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.15~30	-54.72	PASS
Band5	3MHz	QPSK	20415	15RB#0	30~1000	-46.20	PASS
Band5	3MHz	QPSK	20415	15RB#0	1000~3000	-46.61	PASS
Band5	3MHz	QPSK	20415	15RB#0	3000~10000	-43.63	PASS
Band5	3MHz	QPSK	20525	15RB#0	0.009~0.15	-44.07	PASS

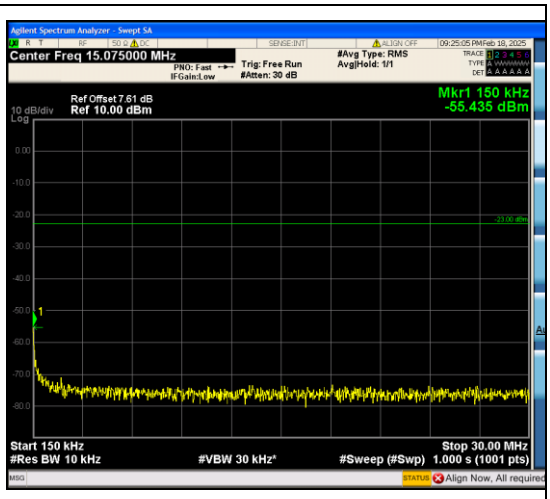
Band5	3MHz	QPSK	20525	15RB#0	0.15~30	-55.67	PASS
Band5	3MHz	QPSK	20525	15RB#0	30~1000	-47.17	PASS
Band5	3MHz	QPSK	20525	15RB#0	1000~3000	-47.19	PASS
Band5	3MHz	QPSK	20525	15RB#0	3000~10000	-43.22	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.009~0.15	-40.48	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.15~30	-51.73	PASS
Band5	3MHz	QPSK	20635	15RB#0	30~1000	-47.44	PASS
Band5	3MHz	QPSK	20635	15RB#0	1000~3000	-46.85	PASS
Band5	3MHz	QPSK	20635	15RB#0	3000~10000	-43.54	PASS
Band5	3MHz	16QAM	20415	15RB#0	0.009~0.15	-39.37	PASS
Band5	3MHz	16QAM	20415	15RB#0	0.15~30	-53.75	PASS
Band5	3MHz	16QAM	20415	15RB#0	30~1000	-48.18	PASS
Band5	3MHz	16QAM	20415	15RB#0	1000~3000	-47.20	PASS
Band5	3MHz	16QAM	20415	15RB#0	3000~10000	-43.21	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.009~0.15	-40.52	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.15~30	-51.15	PASS
Band5	3MHz	16QAM	20525	15RB#0	30~1000	-48.51	PASS
Band5	3MHz	16QAM	20525	15RB#0	1000~3000	-46.97	PASS
Band5	3MHz	16QAM	20525	15RB#0	3000~10000	-43.65	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.009~0.15	-42.41	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.15~30	-53.34	PASS
Band5	3MHz	16QAM	20635	15RB#0	30~1000	-48.84	PASS
Band5	3MHz	16QAM	20635	15RB#0	1000~3000	-47.18	PASS
Band5	3MHz	16QAM	20635	15RB#0	3000~10000	-43.50	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.009~0.15	-43.94	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.15~30	-52.44	PASS
Band5	5MHz	QPSK	20425	25RB#0	30~1000	-49.79	PASS
Band5	5MHz	QPSK	20425	25RB#0	1000~3000	-47.07	PASS
Band5	5MHz	QPSK	20425	25RB#0	3000~10000	-43.62	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.009~0.15	-41.06	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.15~30	-51.91	PASS
Band5	5MHz	QPSK	20525	25RB#0	30~1000	-49.04	PASS
Band5	5MHz	QPSK	20525	25RB#0	1000~3000	-46.94	PASS
Band5	5MHz	QPSK	20525	25RB#0	3000~10000	-43.78	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.009~0.15	-41.98	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.15~30	-54.16	PASS
Band5	5MHz	QPSK	20625	25RB#0	30~1000	-48.36	PASS
Band5	5MHz	QPSK	20625	25RB#0	1000~3000	-47.08	PASS
Band5	5MHz	QPSK	20625	25RB#0	3000~10000	-43.49	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.009~0.15	-42.54	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.15~30	-52.44	PASS
Band5	5MHz	16QAM	20425	25RB#0	30~1000	-51.17	PASS
Band5	5MHz	16QAM	20425	25RB#0	1000~3000	-47.06	PASS

Band5	5MHz	16QAM	20425	25RB#0	3000~10000	-43.57	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.009~0.15	-40.00	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.15~30	-53.31	PASS
Band5	5MHz	16QAM	20525	25RB#0	30~1000	-49.98	PASS
Band5	5MHz	16QAM	20525	25RB#0	1000~3000	-46.76	PASS
Band5	5MHz	16QAM	20525	25RB#0	3000~10000	-43.61	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.009~0.15	-43.50	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.15~30	-54.06	PASS
Band5	5MHz	16QAM	20625	25RB#0	30~1000	-50.66	PASS
Band5	5MHz	16QAM	20625	25RB#0	1000~3000	-46.92	PASS
Band5	5MHz	16QAM	20625	25RB#0	3000~10000	-43.88	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.009~0.15	-41.27	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.15~30	-54.42	PASS
Band5	10MHz	QPSK	20450	50RB#0	30~1000	-61.92	PASS
Band5	10MHz	QPSK	20450	50RB#0	1000~3000	-47.07	PASS
Band5	10MHz	QPSK	20450	50RB#0	3000~10000	-43.70	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.009~0.15	-40.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.15~30	-52.01	PASS
Band5	10MHz	QPSK	20525	50RB#0	30~1000	-55.32	PASS
Band5	10MHz	QPSK	20525	50RB#0	1000~3000	-36.16	PASS
Band5	10MHz	QPSK	20525	50RB#0	3000~10000	-43.40	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.009~0.15	-41.96	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.15~30	-52.75	PASS
Band5	10MHz	QPSK	20600	50RB#0	30~1000	-50.59	PASS
Band5	10MHz	QPSK	20600	50RB#0	1000~3000	-43.20	PASS
Band5	10MHz	QPSK	20600	50RB#0	3000~10000	-43.54	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.009~0.15	-39.87	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.15~30	-52.66	PASS
Band5	10MHz	16QAM	20450	50RB#0	30~1000	-61.82	PASS
Band5	10MHz	16QAM	20450	50RB#0	1000~3000	-46.68	PASS
Band5	10MHz	16QAM	20450	50RB#0	3000~10000	-43.41	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.009~0.15	-43.71	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.15~30	-52.07	PASS
Band5	10MHz	16QAM	20525	50RB#0	30~1000	-54.96	PASS
Band5	10MHz	16QAM	20525	50RB#0	1000~3000	-47.07	PASS
Band5	10MHz	16QAM	20525	50RB#0	3000~10000	-43.38	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.009~0.15	-43.09	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.15~30	-53.79	PASS
Band5	10MHz	16QAM	20600	50RB#0	30~1000	-52.58	PASS
Band5	10MHz	16QAM	20600	50RB#0	1000~3000	-46.82	PASS
Band5	10MHz	16QAM	20600	50RB#0	3000~10000	-43.62	PASS

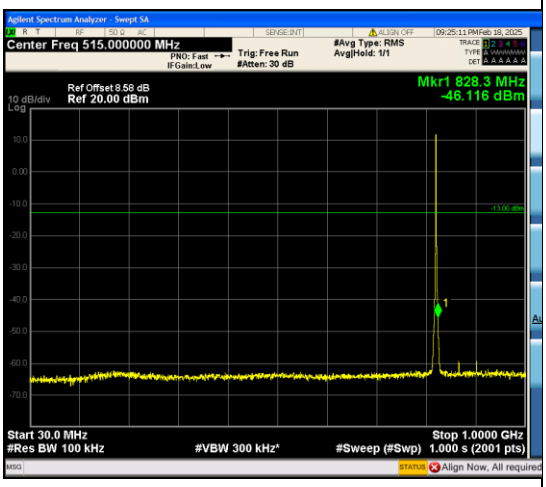
Test Graphs



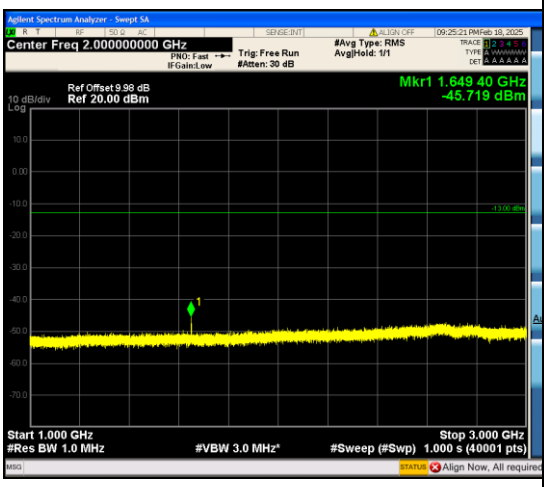
Band5_1.4MHz_QPSK_20407_6RB#0_0.009~0.15_0.009~0.15



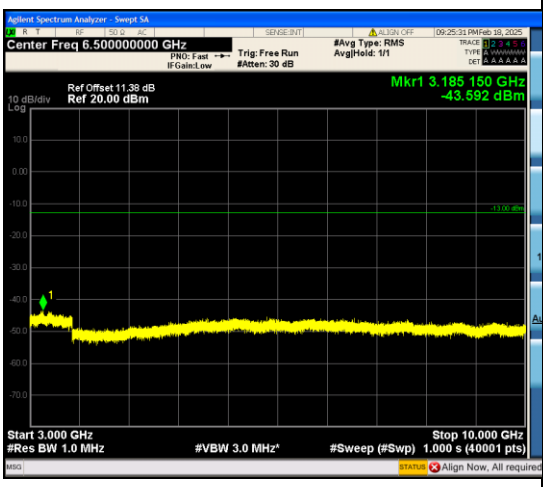
Band5_1.4MHz_QPSK_20407_6RB#0_0.15~30_0.15~30



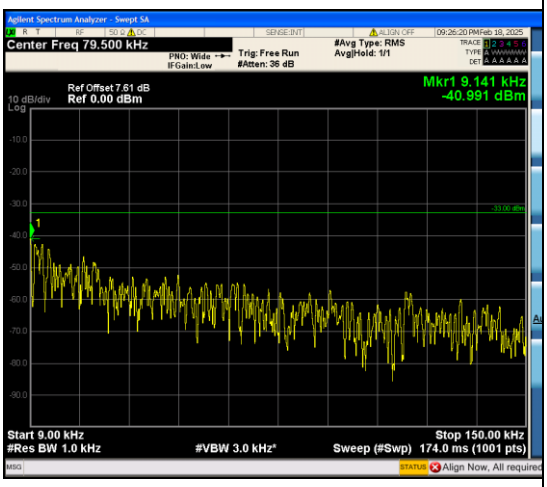
Band5_1.4MHz_QPSK_20407_6RB#0_30~1000_30~1000



Band5_1.4MHz_QPSK_20407_6RB#0_1000~3000_1000~3000



Band5_1.4MHz_QPSK_20407_6RB#0_3000~10000_3000~10000



Band5_1.4MHz_QPSK_20525_6RB#0_0.009~0.15_0.009~0.15