FCC LTE Band Test Data

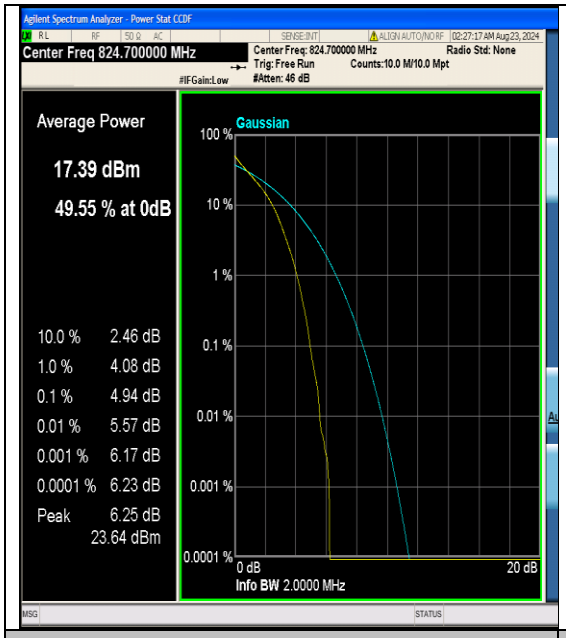
FCC ID	**:**	**2BKLE-ARIES**
Company:	**:**	**Versa World Inc.**
EUT	**:**	**POC/IP Two Way Radio**
Model Number	**:**	**G232**
Reviewed By	**:**	**Eric Wang**

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

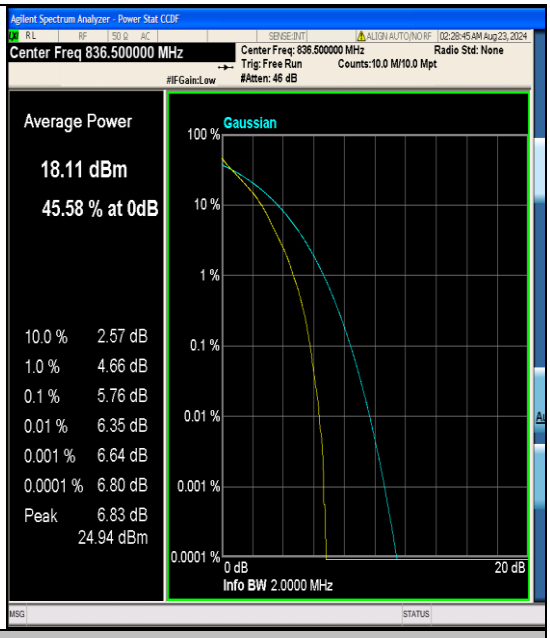
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	4.94	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.76	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.44	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.73	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.51	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.18	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.24	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.78	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.53	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.05	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.54	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.24	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.33	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.84	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.50	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.01	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.52	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.12	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.51	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.80	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.26	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.21	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.50	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.00	13	PASS

Test Graphs



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



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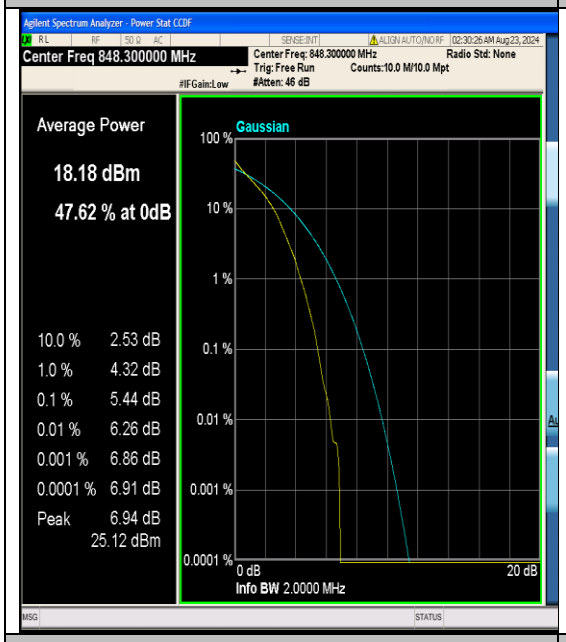

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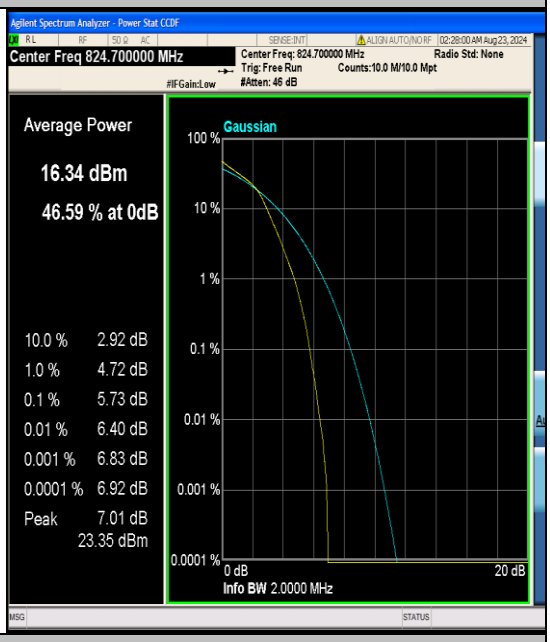

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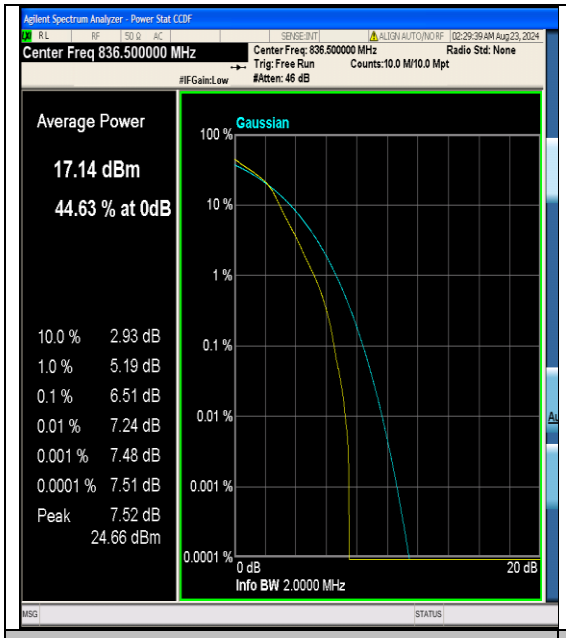

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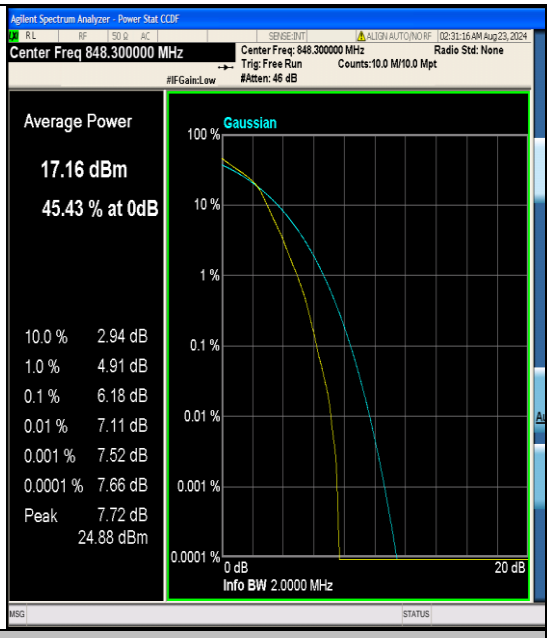

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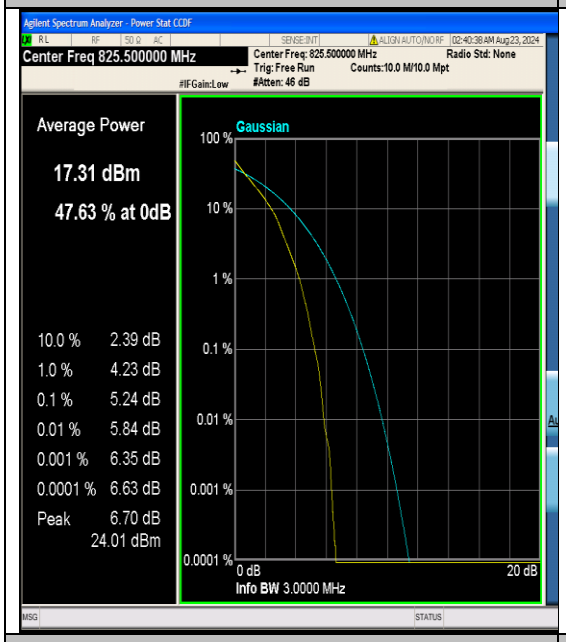
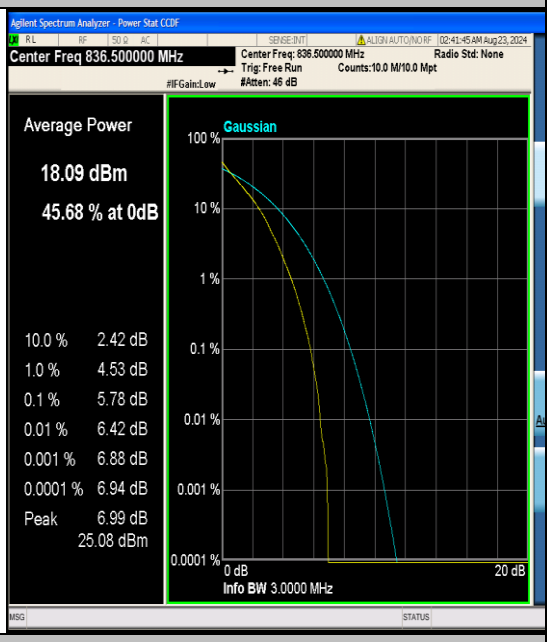


Band5-3MHz-QPSK-20415-15RB#0-PASS



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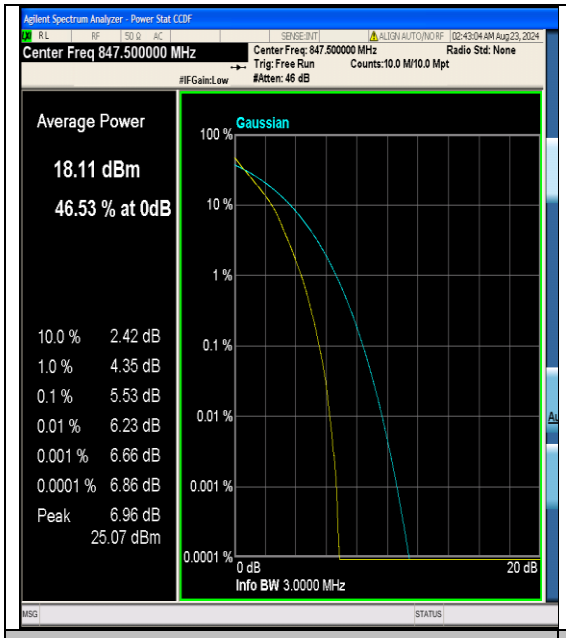

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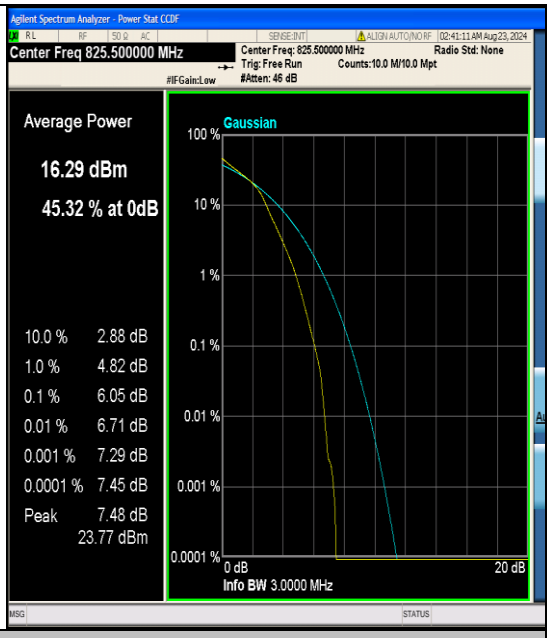

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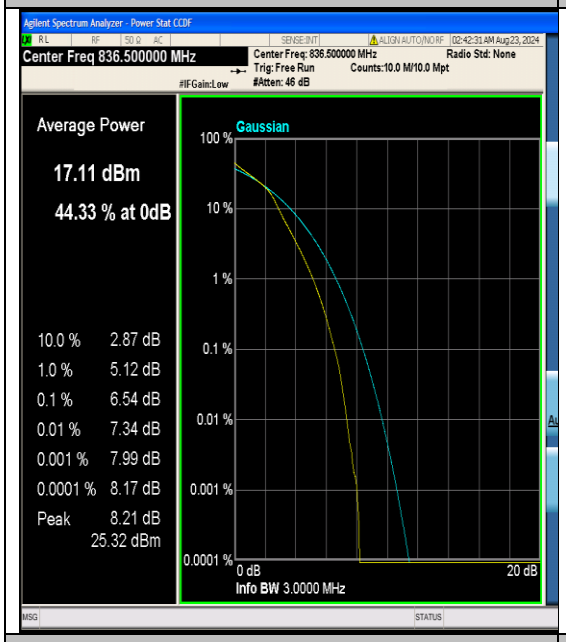

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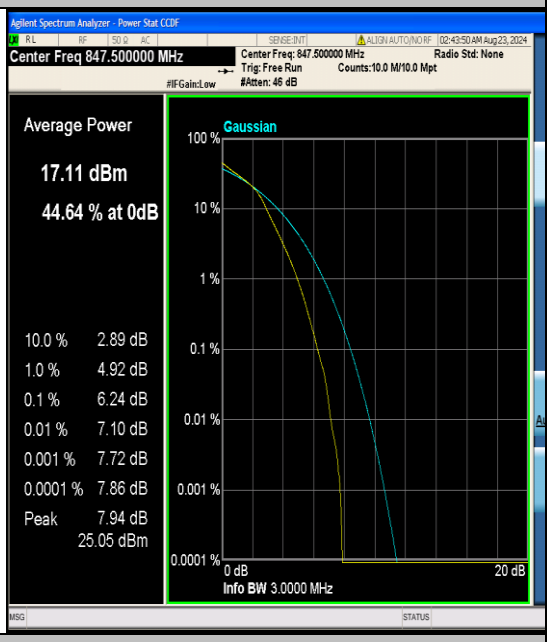

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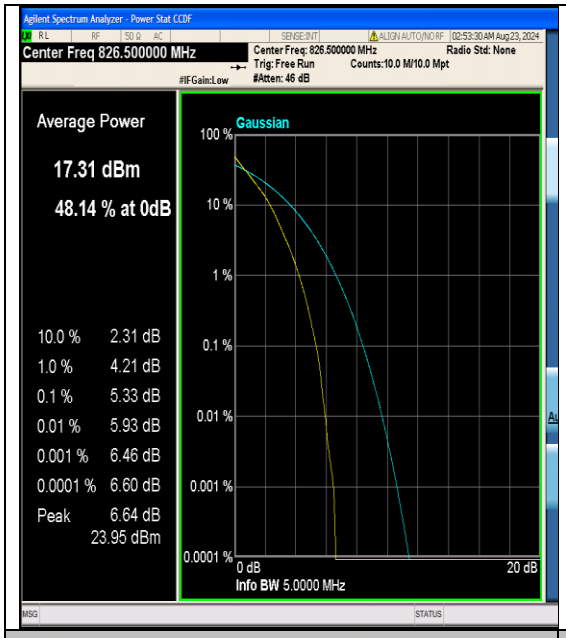
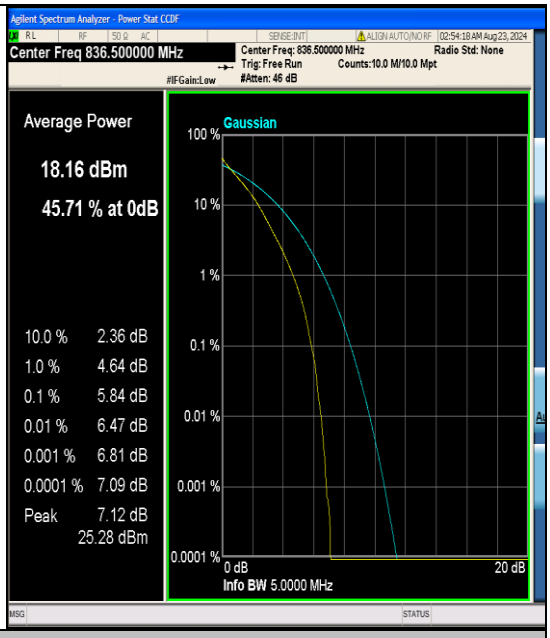


Band5-5MHz-QPSK-20425-25RB#0-PASS



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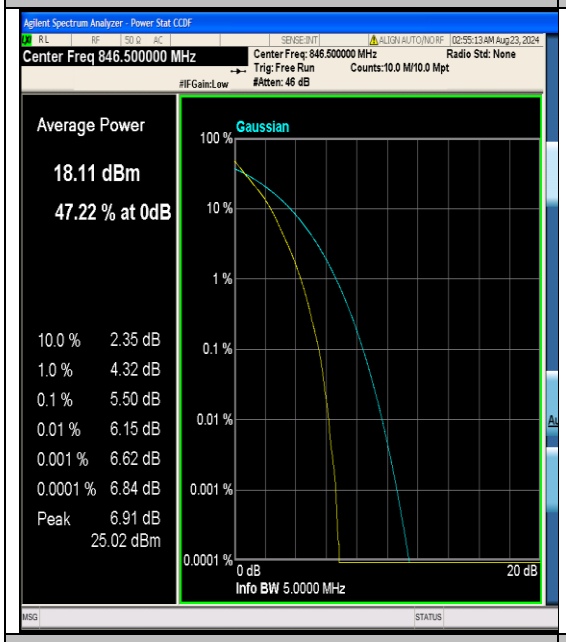

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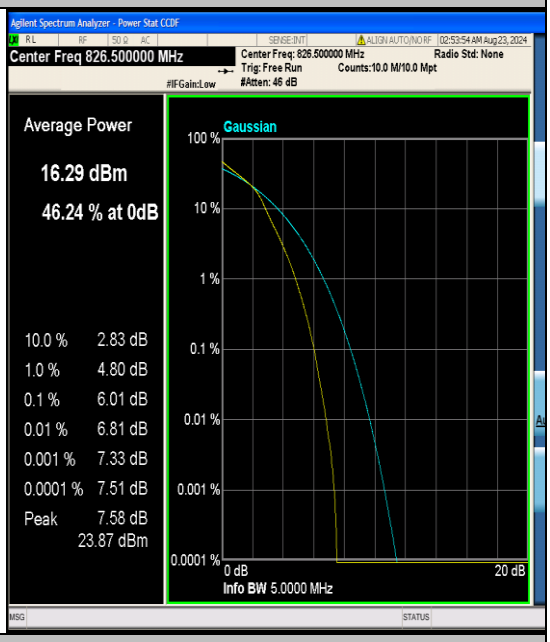

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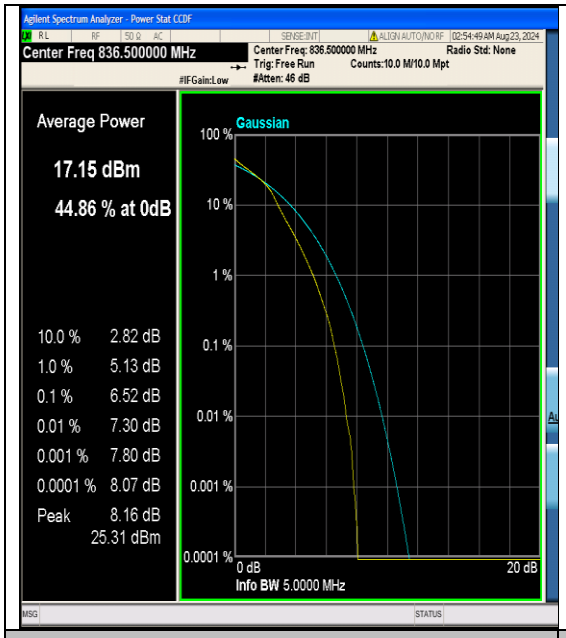

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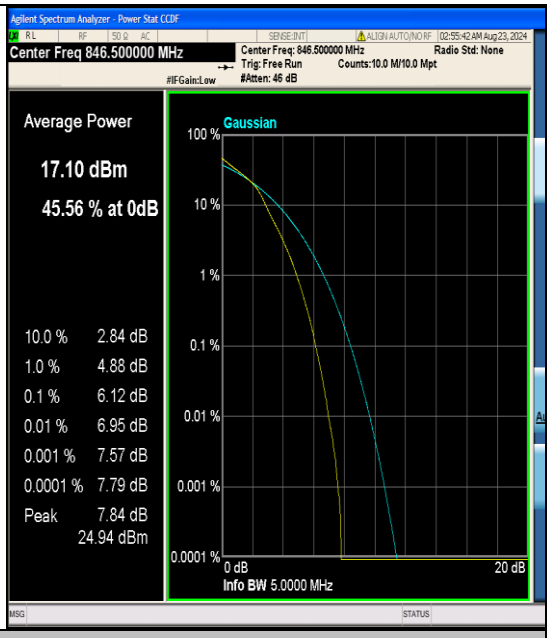

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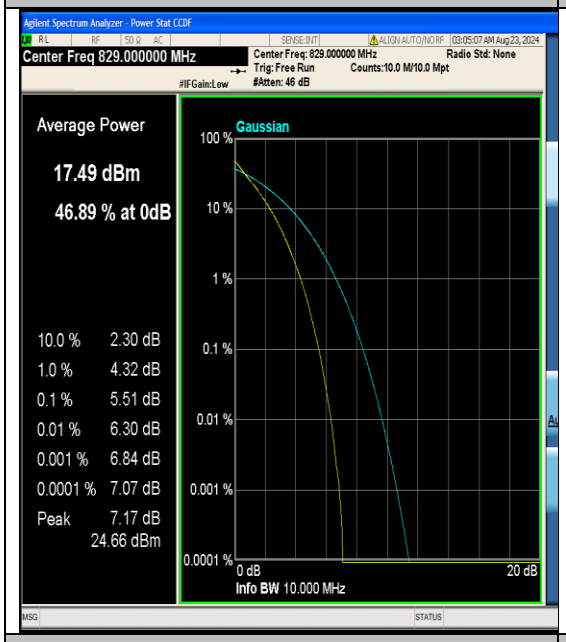
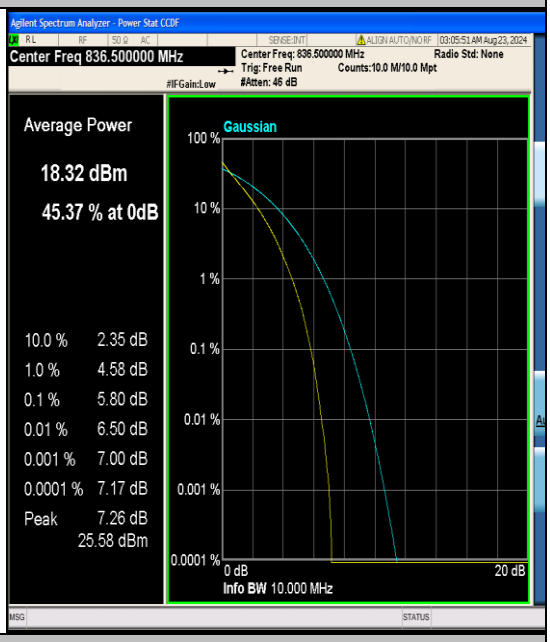
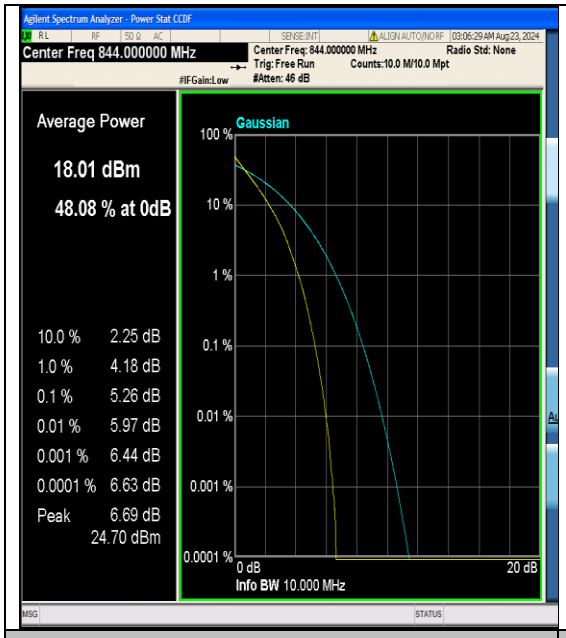


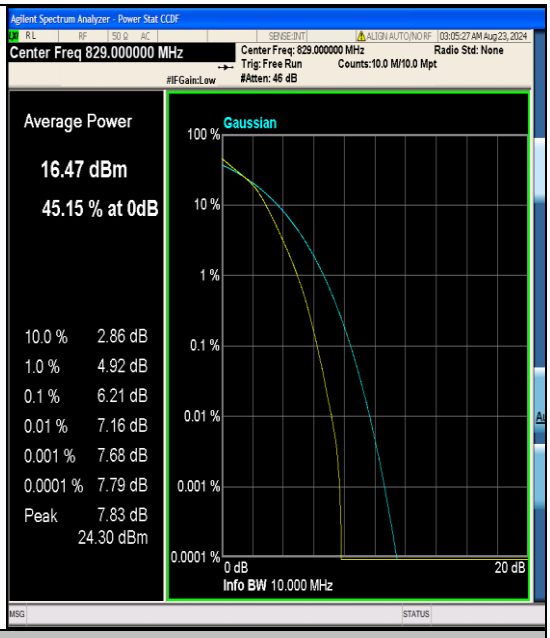
Band5-10MHz-QPSK-20450-50RB#0-PASS



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



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



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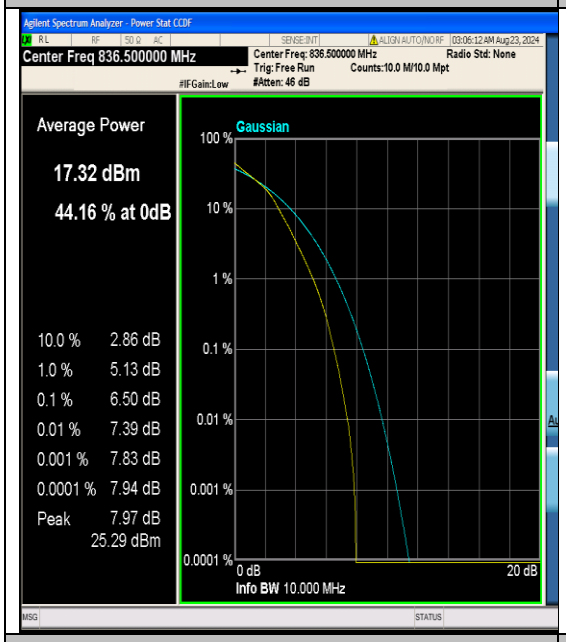
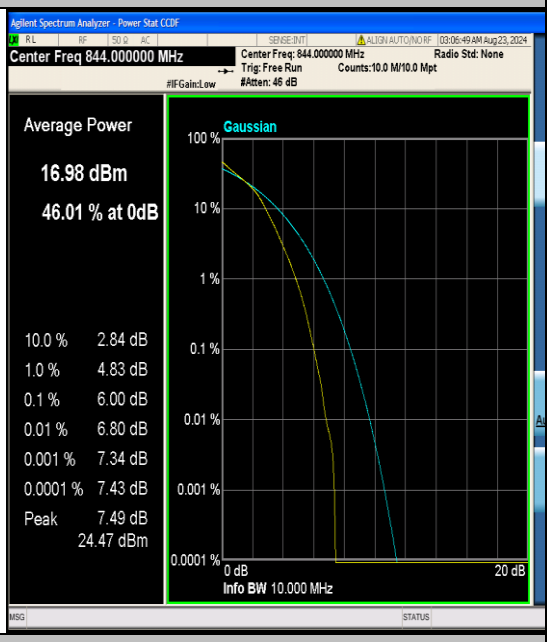


Band5-10MHz-16QAM-20525-50RB#0-PASS



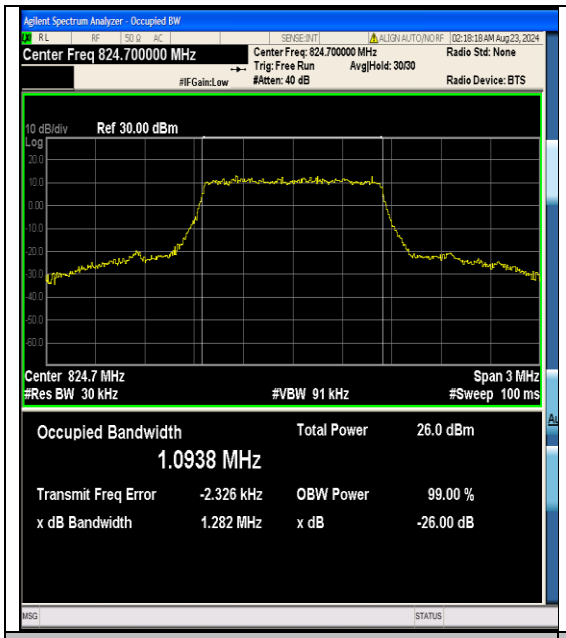
Band5-10MHz-16QAM-20600-50RB#0-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

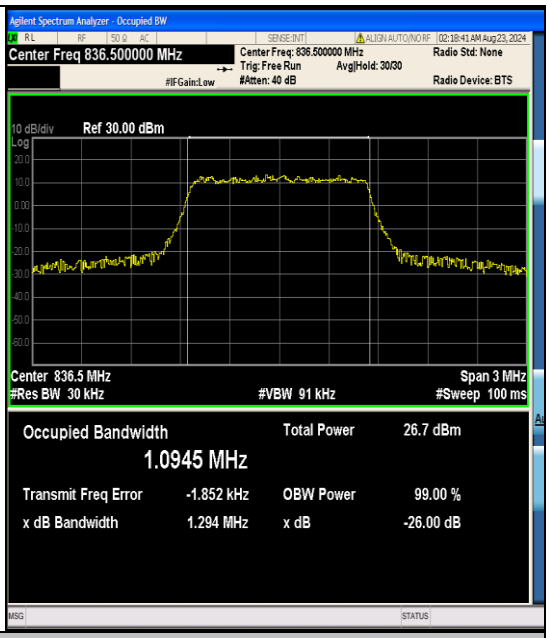
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0938	1.282	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0945	1.294	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0921	1.281	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0952	1.299	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0992	1.316	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0966	1.308	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6849	2.893	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6922	2.902	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6868	2.902	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6783	2.888	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6826	2.902	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6783	2.901	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5164	5.173	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5321	5.233	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5167	5.188	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5101	5.116	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5266	5.147	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5192	5.138	PASS
Band5	10MHz	QPSK	20450	50RB#0	9.0018	10.15	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.0269	10.17	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9888	10.12	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9681	10.06	PASS
Band5	10MHz	16QAM	20525	50RB#0	9.0200	10.13	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9725	10.05	PASS

Test Graphs



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



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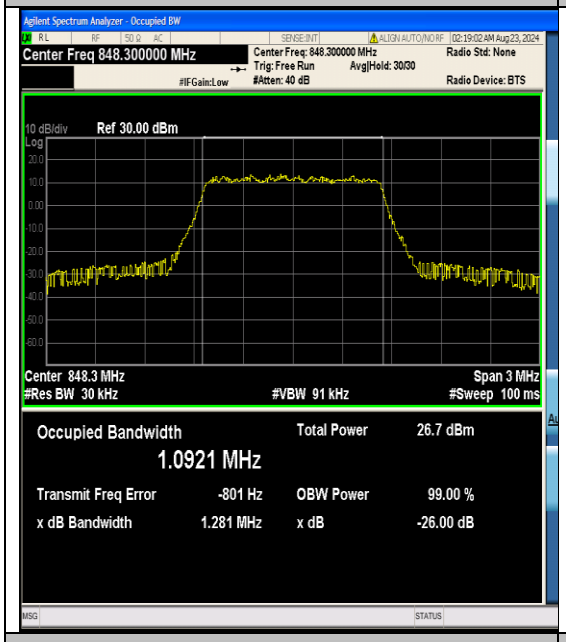

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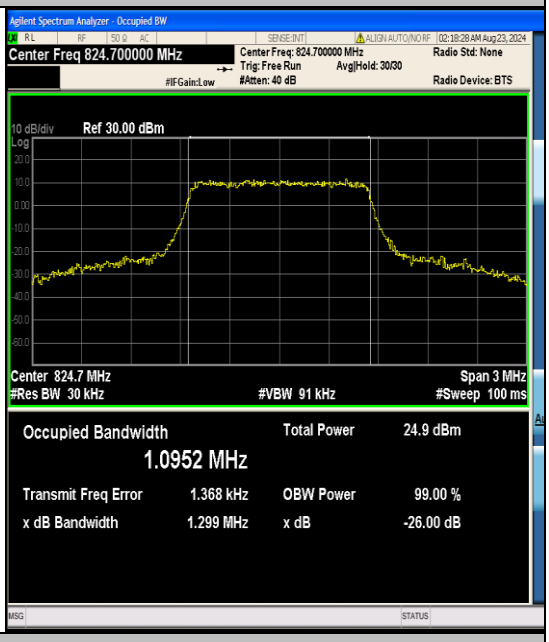
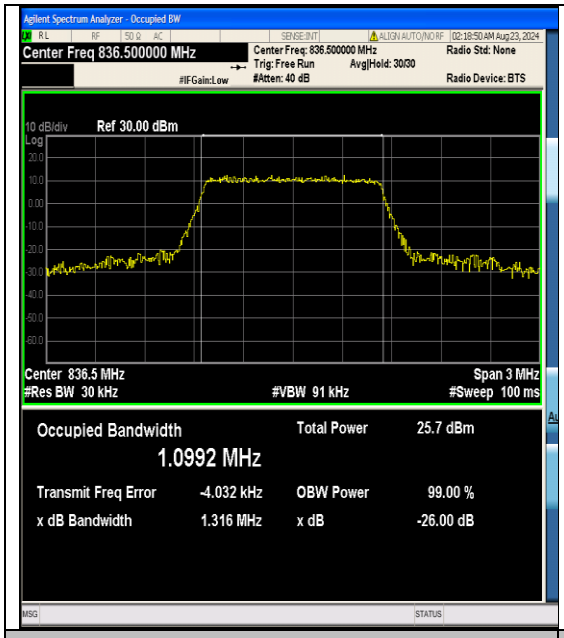
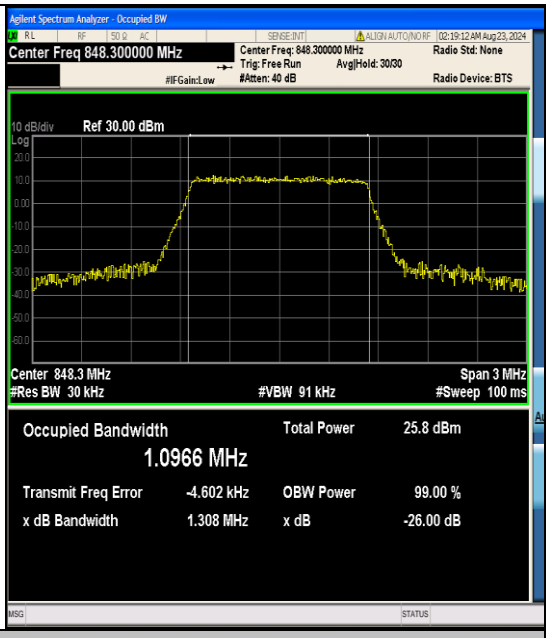


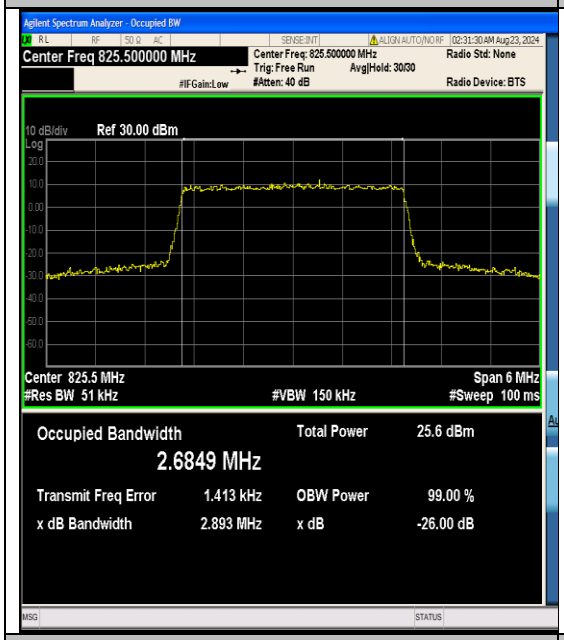
Band5-1.4MHz-16QAM-20407-6RB#0-PASS



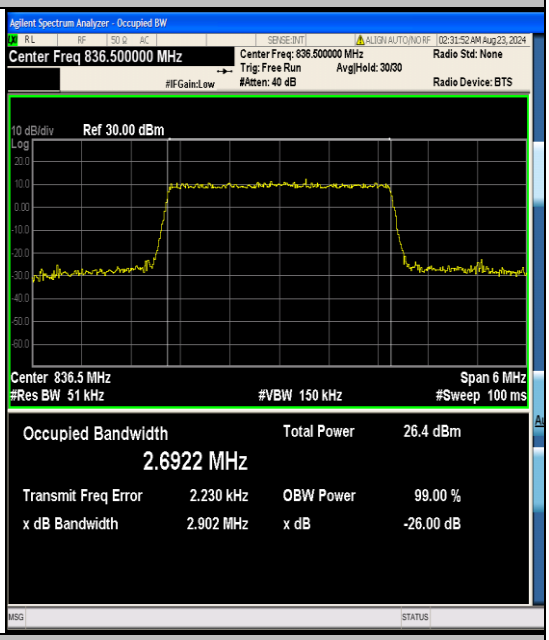
Band5-1.4MHz-16QAM-20525-6RB#0-PASS



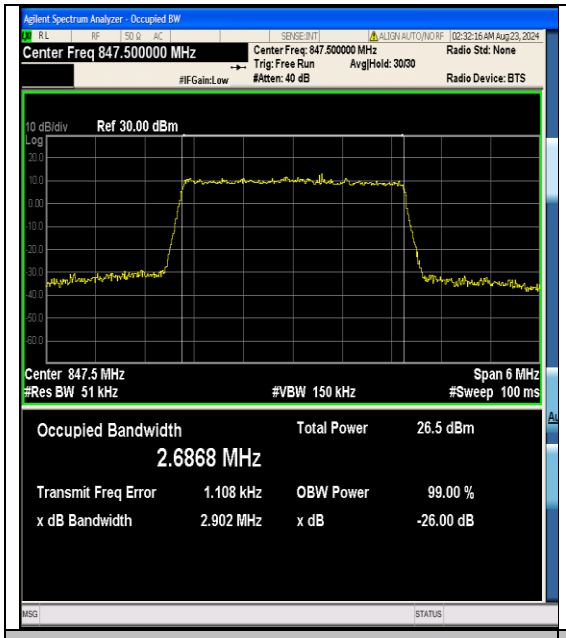
Band5-1.4MHz-16QAM-20643-6RB#0-PASS



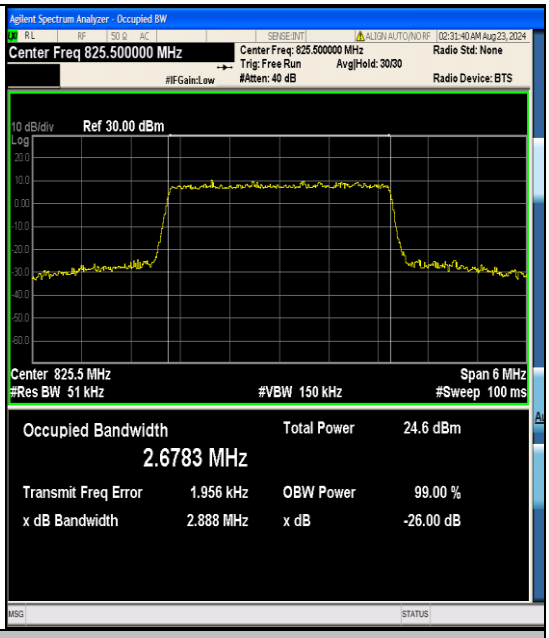
Band5-3MHz-QPSK-20415-15RB#0-PASS



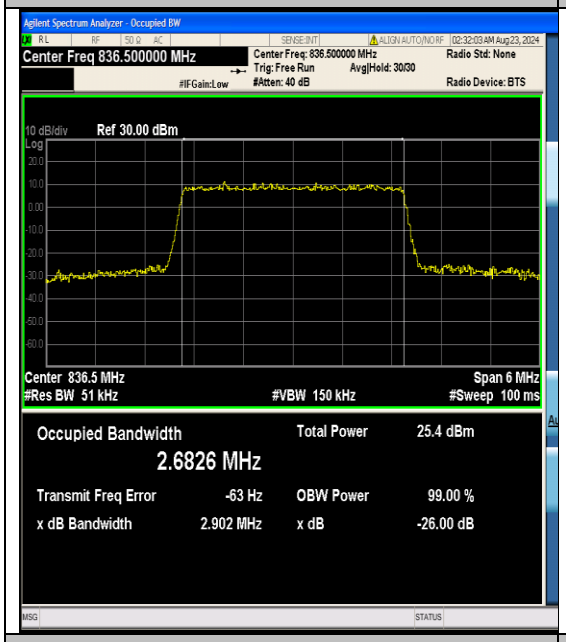
Band5-3MHz-QPSK-20525-15RB#0-PASS



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



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



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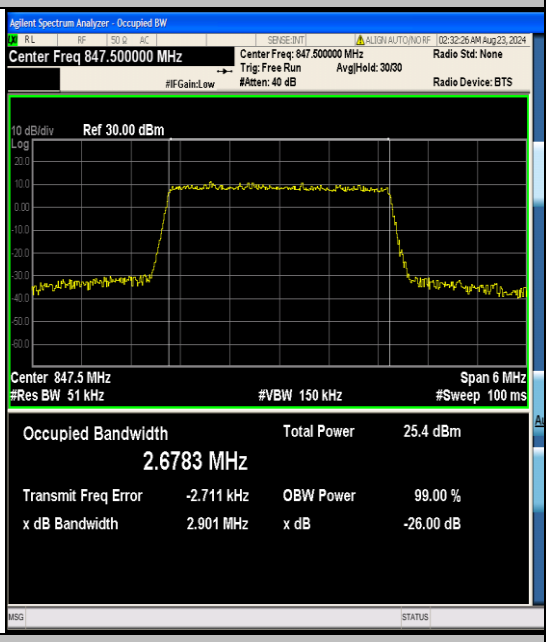
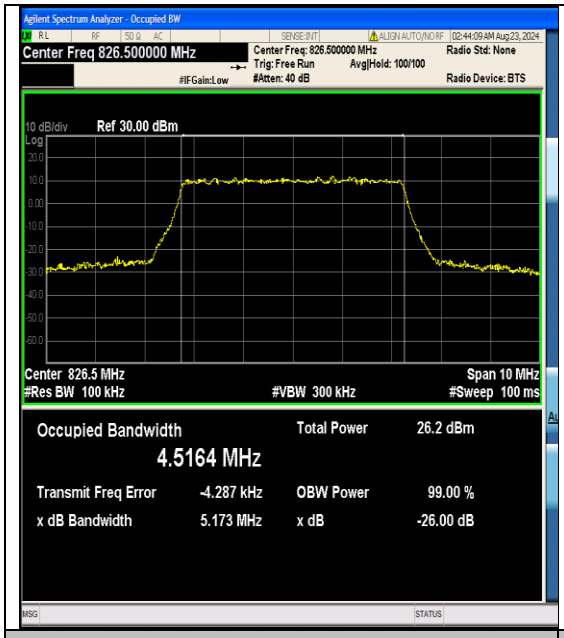
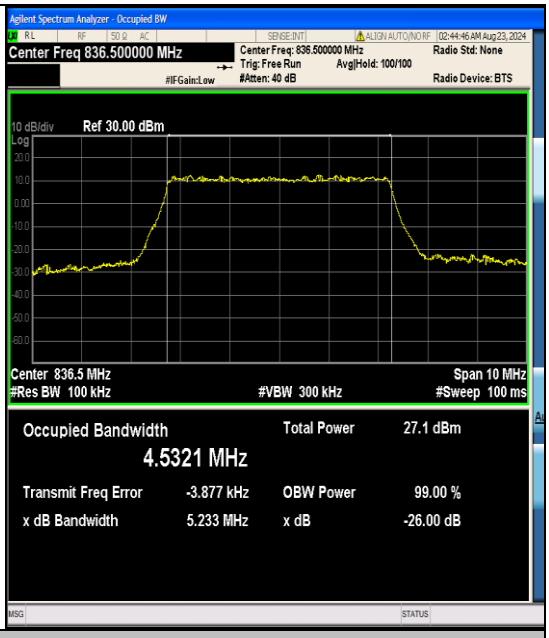


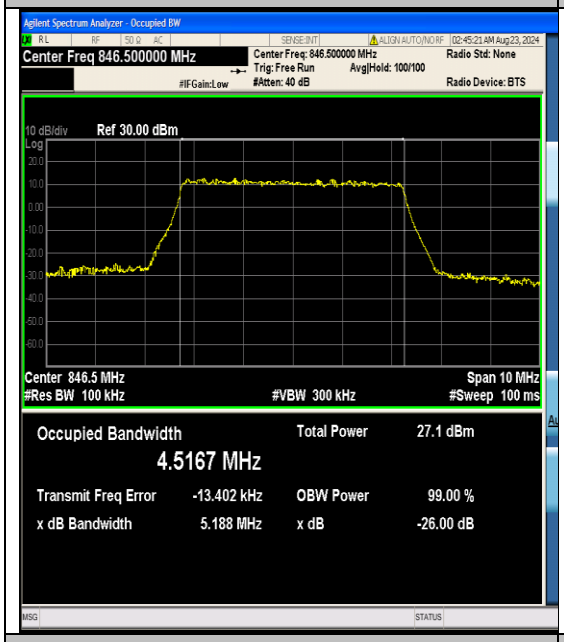
Band5-3MHz-16QAM-20635-15RB#0-PASS



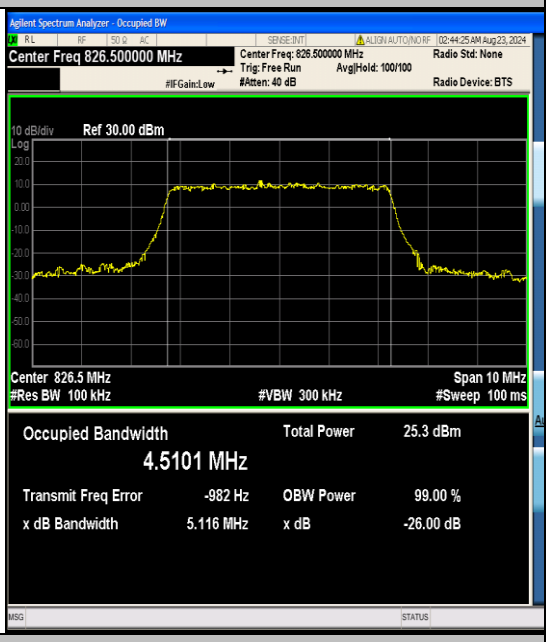
Band5-5MHz-QPSK-20425-25RB#0-PASS



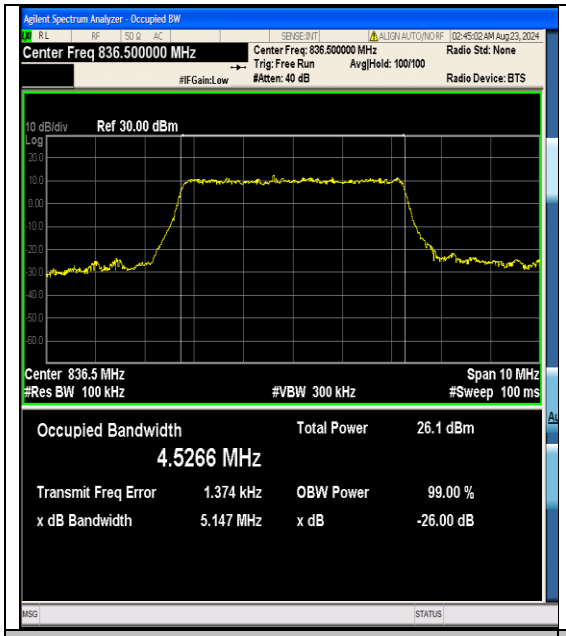
Band5-5MHz-QPSK-20525-25RB#0-PASS



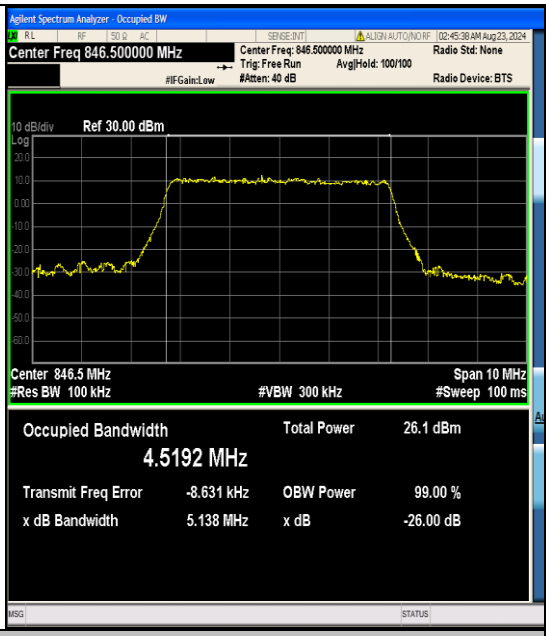
Band5-5MHz-QPSK-20625-25RB#0-PASS



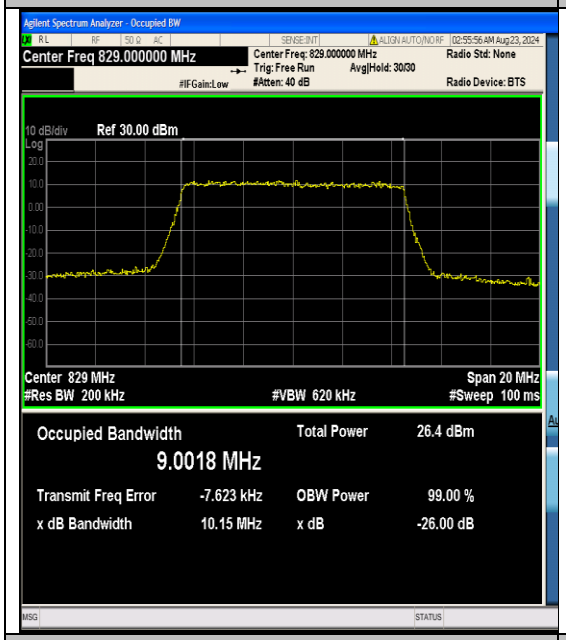
Band5-5MHz-16QAM-20425-25RB#0-PASS



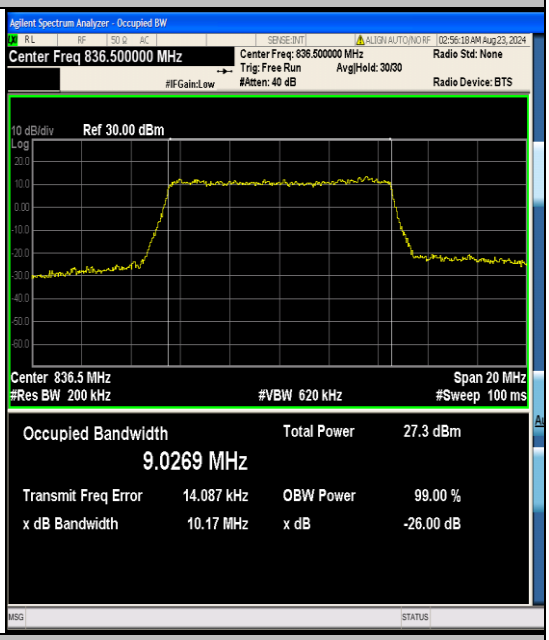
Band5-5MHz-16QAM-20525-25RB#0-PASS



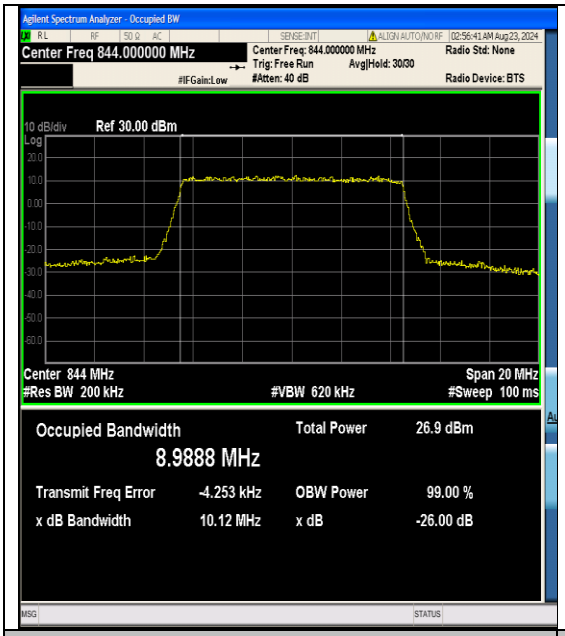
Band5-5MHz-16QAM-20625-25RB#0-PASS



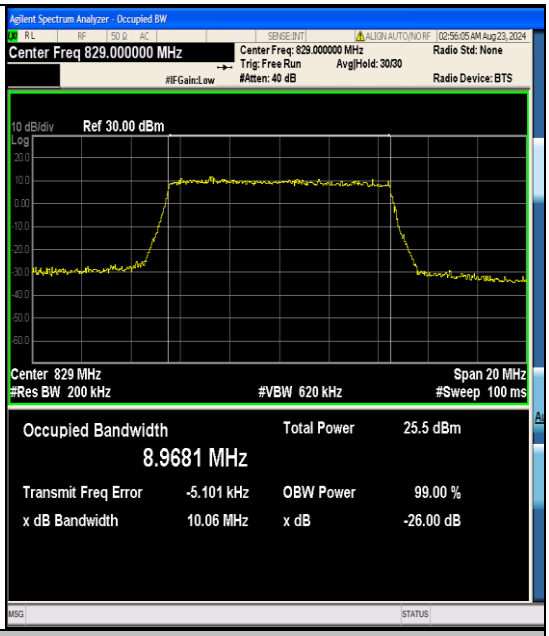
Band5-10MHz-QPSK-20450-50RB#0-PASS



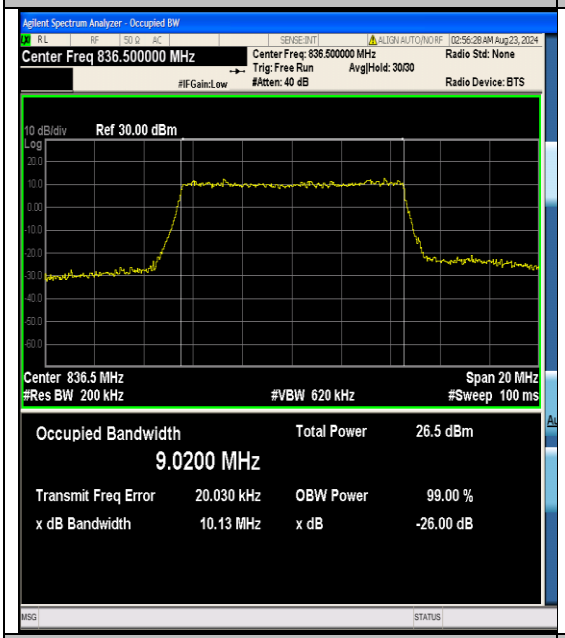
Band5-10MHz-QPSK-20525-50RB#0-PASS



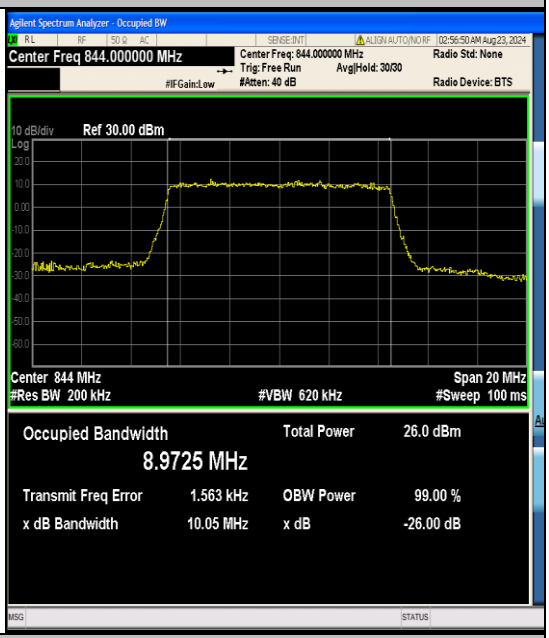
Band5-10MHz-QPSK-20600-50RB#0-PASS



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



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



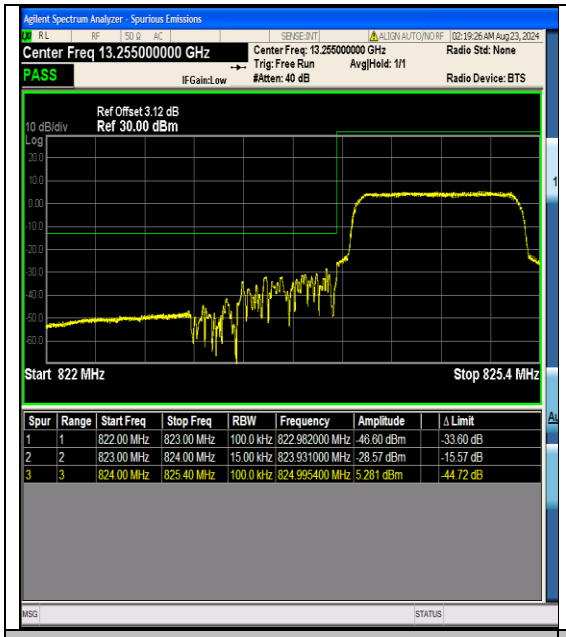
Band5-10MHz-16QAM-20600-50RB#0-PASS

Appendix D: Band Edge

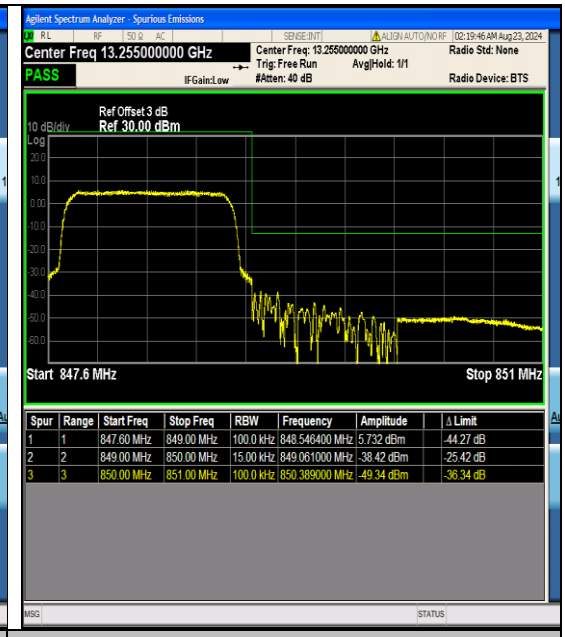
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	-28.57	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-38.42	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-30.08	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-42.00	PASS
Band5	3MHz	QPSK	20415	15RB#0	-36.01	PASS
Band5	3MHz	QPSK	20635	15RB#0	-43.14	PASS
Band5	3MHz	16QAM	20415	15RB#0	-38.71	PASS
Band5	3MHz	16QAM	20635	15RB#0	-44.47	PASS
Band5	5MHz	QPSK	20425	25RB#0	-35.26	PASS
Band5	5MHz	QPSK	20625	25RB#0	-37.89	PASS
Band5	5MHz	16QAM	20425	25RB#0	-37.69	PASS
Band5	5MHz	16QAM	20625	25RB#0	-39.39	PASS
Band5	10MHz	QPSK	20450	50RB#0	-38.99	PASS
Band5	10MHz	QPSK	20600	50RB#0	-39.20	PASS
Band5	10MHz	16QAM	20450	50RB#0	-41.13	PASS
Band5	10MHz	16QAM	20600	50RB#0	-41.47	PASS

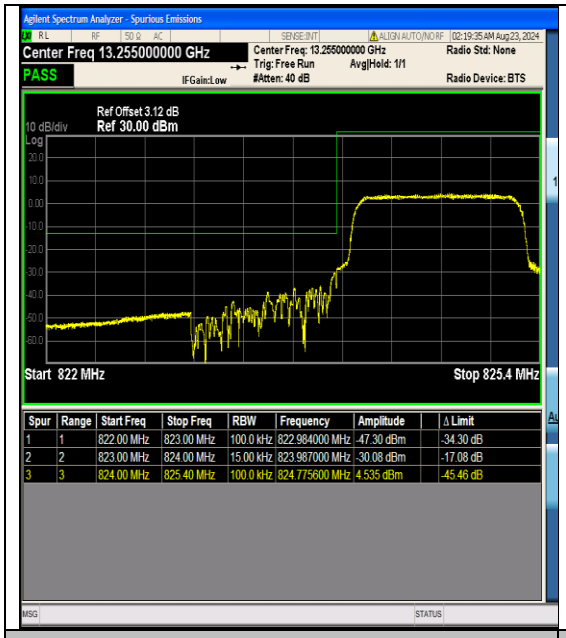
Test Graphs



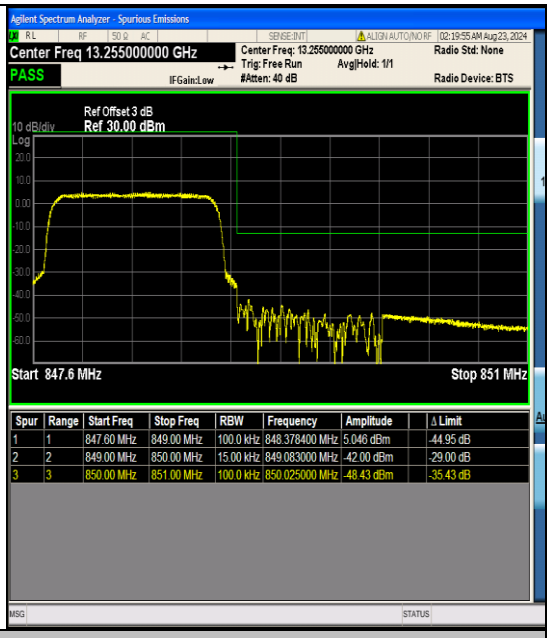
Band5_1.4MHz_QPSK_20407_6RB#0



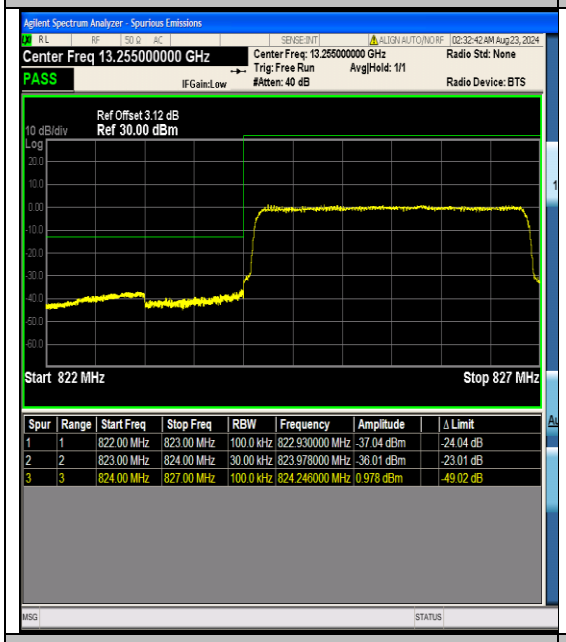
Band5_1.4MHz_QPSK_20643_6RB#0



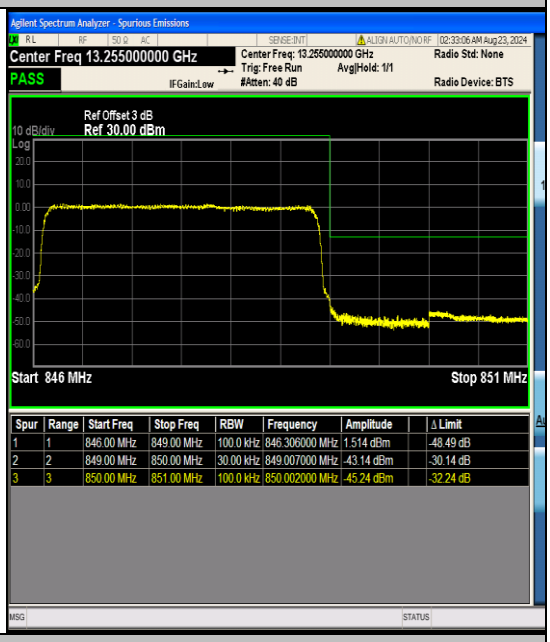
Band5_1.4MHz_16QAM_20407_6RB#0



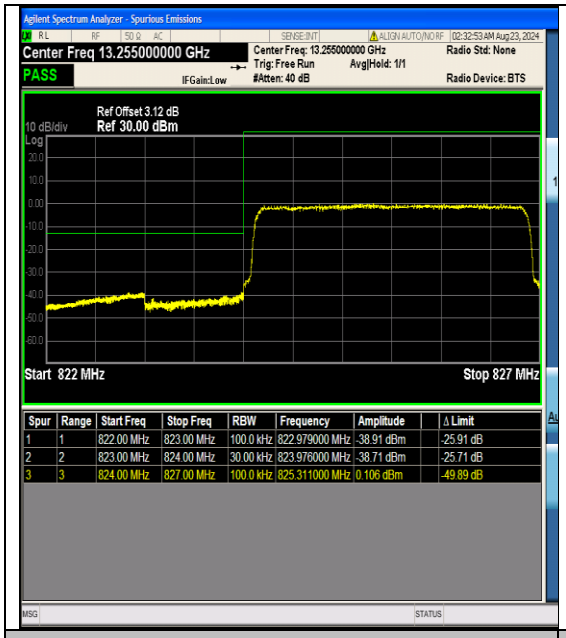
Band5_1.4MHz_16QAM_20643_6RB#0



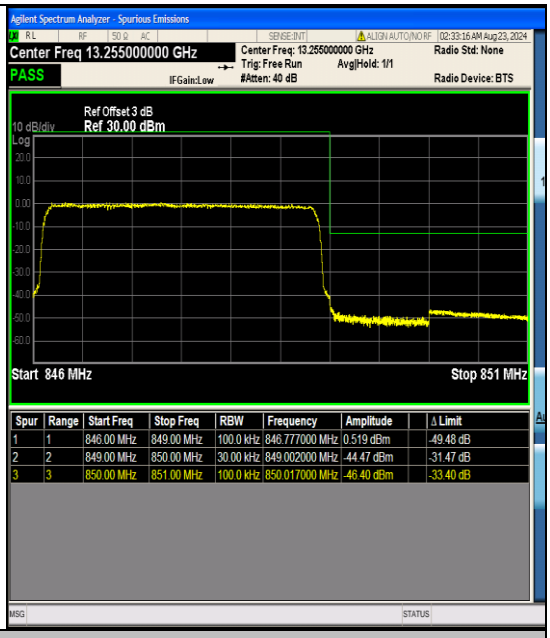
Band5_3MHz_QPSK_20415_15RB#0



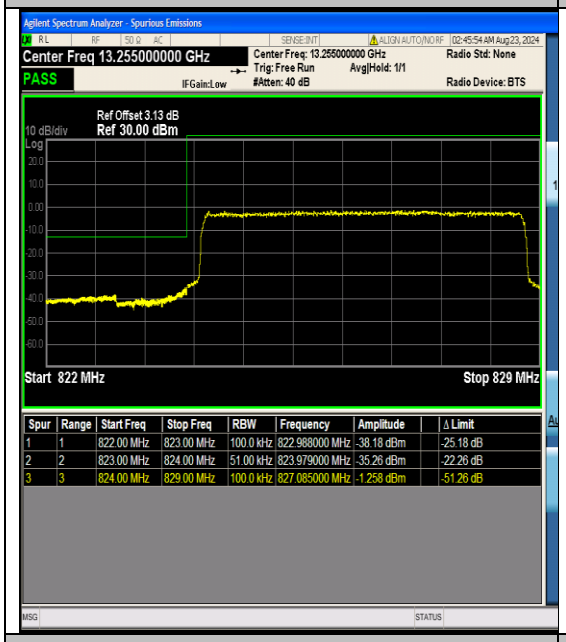
Band5_3MHz_QPSK_20635_15RB#0



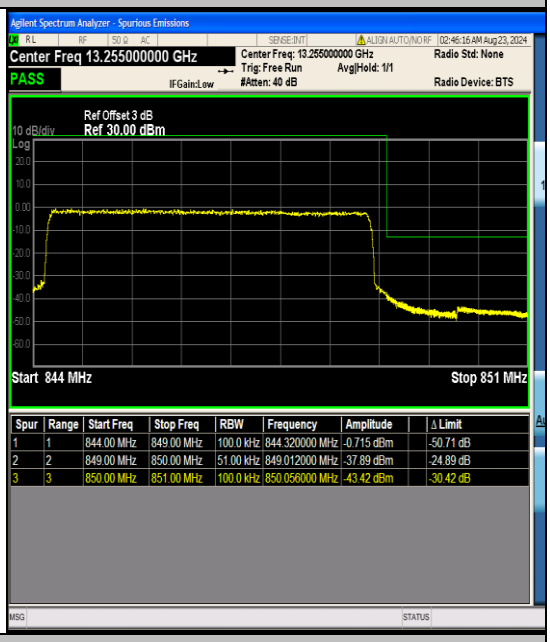
Band5_3MHz_16QAM_20415_15RB#0



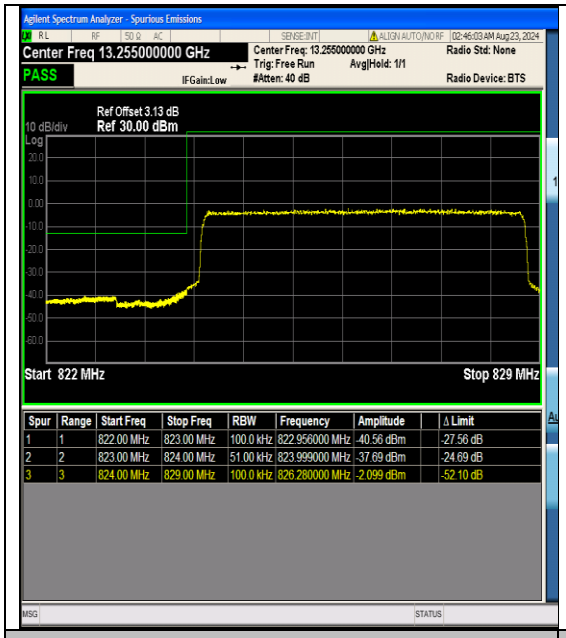
Band5_3MHz_16QAM_20635_15RB#0



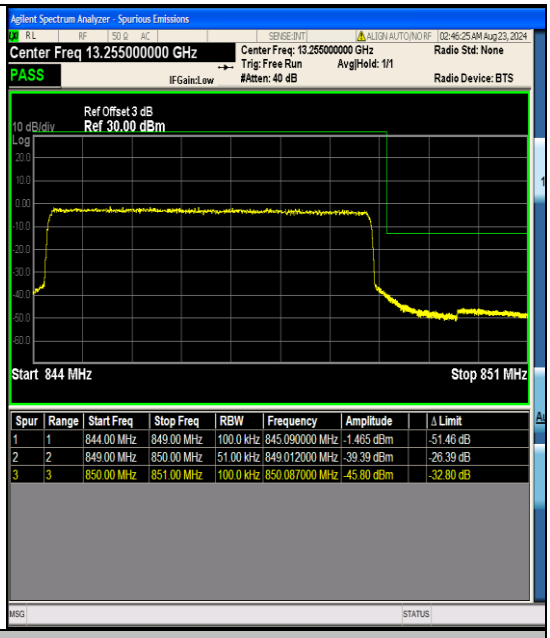
Band5_5MHz_QPSK_20425_25RB#0



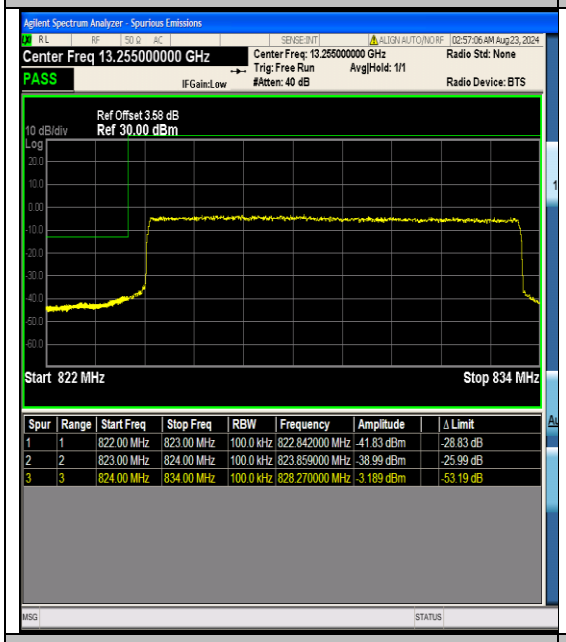
Band5_5MHz_QPSK_20625_25RB#0



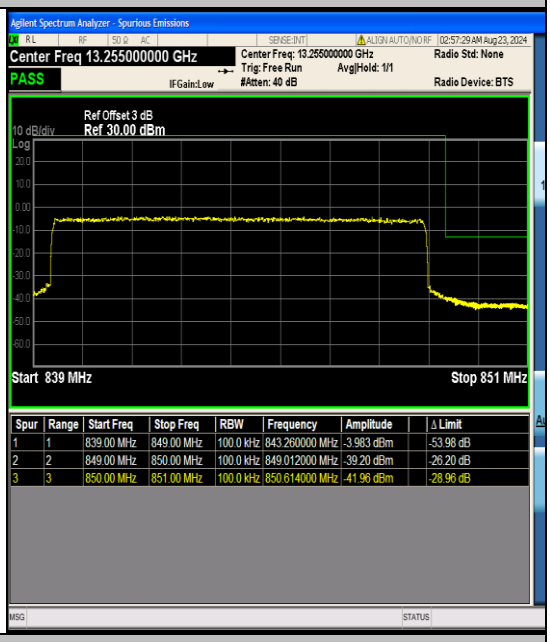
Band5_5MHz_16QAM_20425_25RB#0



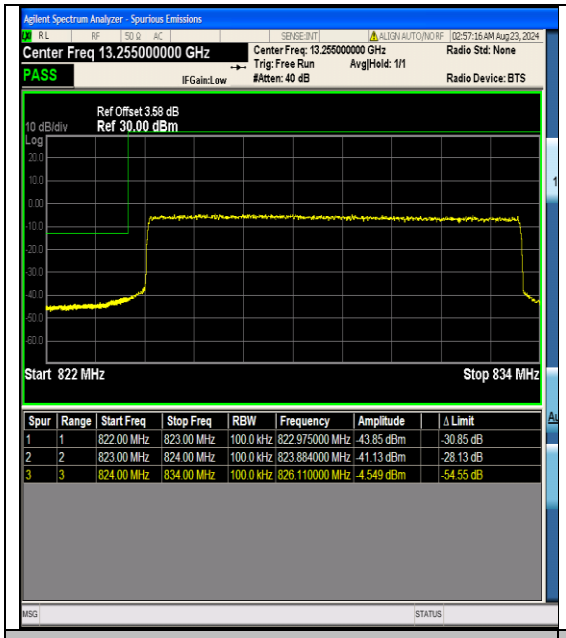
Band5_5MHz_16QAM_20625_25RB#0



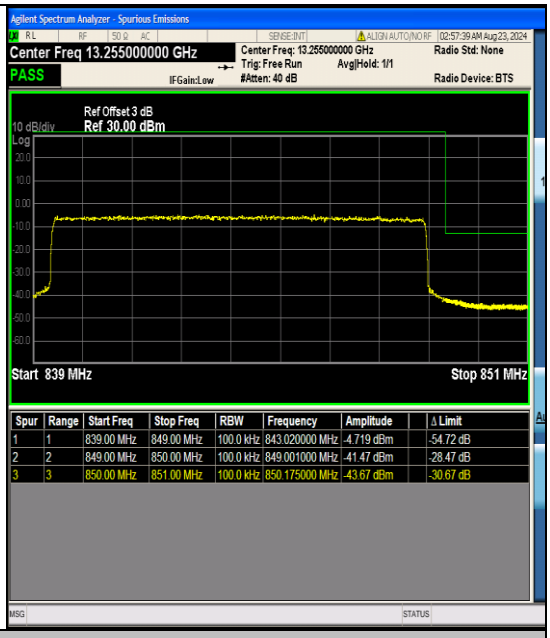
Band5_10MHz_QPSK_20450_50RB#0



Band5_10MHz_QPSK_20600_50RB#0



Band5_10MHz_16QAM_20450_50RB#0



Band5_10MHz_16QAM_20600_50RB#0

Appendix E: Conducted Spurious Emission

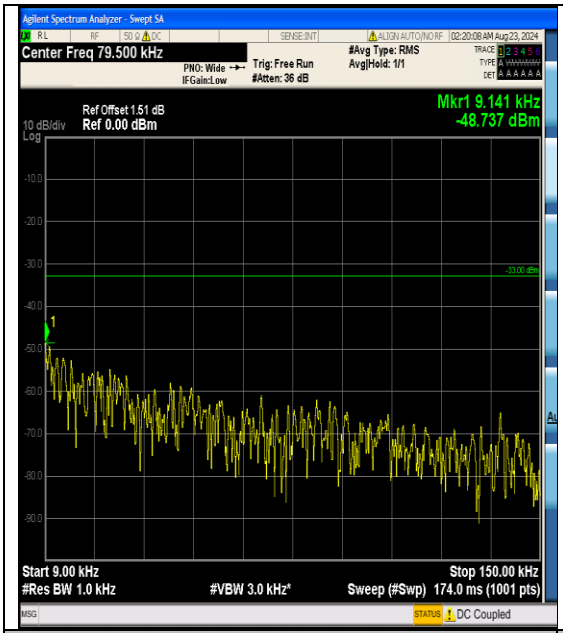
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	0.009~0.15	-48.74	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	0.15~30	-60.63	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	30~1000	-52.85	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	1000~3000	-52.13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	3000~10000	-49.98	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.009~0.15	-49.83	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.15~30	-57.83	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	30~1000	-49.56	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1000~3000	-49.19	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	3000~10000	-49.55	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.009~0.15	-48.73	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.15~30	-60.22	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	30~1000	-50.76	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1000~3000	-47.30	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	3000~10000	-50.00	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.009~0.15	-47.63	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.15~30	-60.15	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	30~1000	-53.57	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1000~3000	-51.94	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	3000~10000	-49.91	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.009~0.15	-49.63	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.15~30	-57.40	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	30~1000	-50.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1000~3000	-49.63	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	3000~10000	-49.57	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.009~0.15	-42.83	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.15~30	-59.34	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	30~1000	-52.32	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1000~3000	-48.86	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	3000~10000	-49.96	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.009~0.15	-47.06	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.15~30	-59.64	PASS
Band5	3MHz	QPSK	20415	15RB#0	30~1000	-57.78	PASS
Band5	3MHz	QPSK	20415	15RB#0	1000~3000	-52.06	PASS
Band5	3MHz	QPSK	20415	15RB#0	3000~10000	-50.13	PASS
Band5	3MHz	QPSK	20525	15RB#0	0.009~0.15	-45.14	PASS

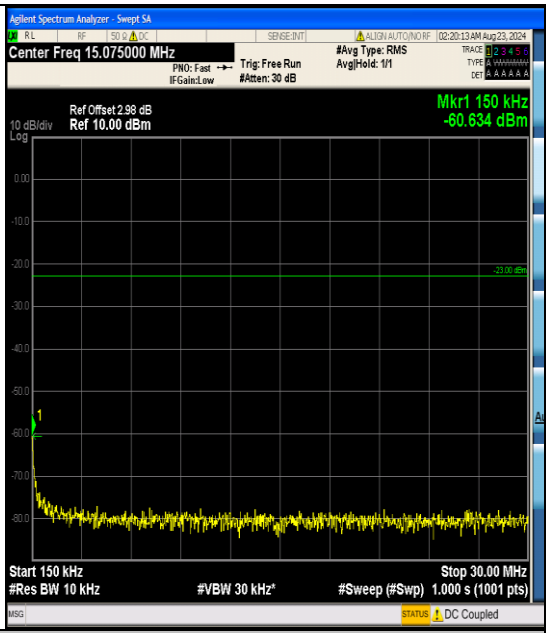
Band5	3MHz	QPSK	20525	15RB#0	0.15~30	-58.22	PASS
Band5	3MHz	QPSK	20525	15RB#0	30~1000	-52.47	PASS
Band5	3MHz	QPSK	20525	15RB#0	1000~3000	-51.78	PASS
Band5	3MHz	QPSK	20525	15RB#0	3000~10000	-49.64	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.009~0.15	-49.71	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.15~30	-59.74	PASS
Band5	3MHz	QPSK	20635	15RB#0	30~1000	-57.67	PASS
Band5	3MHz	QPSK	20635	15RB#0	1000~3000	-50.68	PASS
Band5	3MHz	QPSK	20635	15RB#0	3000~10000	-49.81	PASS
Band5	3MHz	16QAM	20415	15RB#0	0.009~0.15	-46.50	PASS
Band5	3MHz	16QAM	20415	15RB#0	0.15~30	-58.21	PASS
Band5	3MHz	16QAM	20415	15RB#0	30~1000	-59.31	PASS
Band5	3MHz	16QAM	20415	15RB#0	1000~3000	-52.49	PASS
Band5	3MHz	16QAM	20415	15RB#0	3000~10000	-50.33	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.009~0.15	-49.01	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.15~30	-59.31	PASS
Band5	3MHz	16QAM	20525	15RB#0	30~1000	-52.51	PASS
Band5	3MHz	16QAM	20525	15RB#0	1000~3000	-51.81	PASS
Band5	3MHz	16QAM	20525	15RB#0	3000~10000	-50.18	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.009~0.15	-46.19	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.15~30	-58.26	PASS
Band5	3MHz	16QAM	20635	15RB#0	30~1000	-57.55	PASS
Band5	3MHz	16QAM	20635	15RB#0	1000~3000	-50.66	PASS
Band5	3MHz	16QAM	20635	15RB#0	3000~10000	-49.74	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.009~0.15	-50.09	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.15~30	-57.18	PASS
Band5	5MHz	QPSK	20425	25RB#0	30~1000	-59.46	PASS
Band5	5MHz	QPSK	20425	25RB#0	1000~3000	-52.34	PASS
Band5	5MHz	QPSK	20425	25RB#0	3000~10000	-50.16	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.009~0.15	-49.30	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.15~30	-58.13	PASS
Band5	5MHz	QPSK	20525	25RB#0	30~1000	-54.18	PASS
Band5	5MHz	QPSK	20525	25RB#0	1000~3000	-52.39	PASS
Band5	5MHz	QPSK	20525	25RB#0	3000~10000	-49.77	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.009~0.15	-46.09	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.15~30	-58.43	PASS
Band5	5MHz	QPSK	20625	25RB#0	30~1000	-62.06	PASS
Band5	5MHz	QPSK	20625	25RB#0	1000~3000	-51.74	PASS
Band5	5MHz	QPSK	20625	25RB#0	3000~10000	-50.10	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.009~0.15	-48.65	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.15~30	-59.22	PASS
Band5	5MHz	16QAM	20425	25RB#0	30~1000	-62.03	PASS
Band5	5MHz	16QAM	20425	25RB#0	1000~3000	-52.19	PASS

Band5	5MHz	16QAM	20425	25RB#0	3000~10000	-49.87	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.009~0.15	-49.32	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.15~30	-56.36	PASS
Band5	5MHz	16QAM	20525	25RB#0	30~1000	-56.14	PASS
Band5	5MHz	16QAM	20525	25RB#0	1000~3000	-51.87	PASS
Band5	5MHz	16QAM	20525	25RB#0	3000~10000	-50.13	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.009~0.15	-47.57	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.15~30	-60.29	PASS
Band5	5MHz	16QAM	20625	25RB#0	30~1000	-63.05	PASS
Band5	5MHz	16QAM	20625	25RB#0	1000~3000	-52.32	PASS
Band5	5MHz	16QAM	20625	25RB#0	3000~10000	-49.99	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.009~0.15	-46.82	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.15~30	-57.57	PASS
Band5	10MHz	QPSK	20450	50RB#0	30~1000	-60.62	PASS
Band5	10MHz	QPSK	20450	50RB#0	1000~3000	-52.20	PASS
Band5	10MHz	QPSK	20450	50RB#0	3000~10000	-50.05	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.009~0.15	-47.80	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.15~30	-58.86	PASS
Band5	10MHz	QPSK	20525	50RB#0	30~1000	-66.39	PASS
Band5	10MHz	QPSK	20525	50RB#0	1000~3000	-52.24	PASS
Band5	10MHz	QPSK	20525	50RB#0	3000~10000	-50.10	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.009~0.15	-49.02	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.15~30	-56.39	PASS
Band5	10MHz	QPSK	20600	50RB#0	30~1000	-57.99	PASS
Band5	10MHz	QPSK	20600	50RB#0	1000~3000	-52.05	PASS
Band5	10MHz	QPSK	20600	50RB#0	3000~10000	-49.91	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.009~0.15	-47.39	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.15~30	-58.35	PASS
Band5	10MHz	16QAM	20450	50RB#0	30~1000	-61.93	PASS
Band5	10MHz	16QAM	20450	50RB#0	1000~3000	-52.14	PASS
Band5	10MHz	16QAM	20450	50RB#0	3000~10000	-49.85	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.009~0.15	-48.91	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.15~30	-58.53	PASS
Band5	10MHz	16QAM	20525	50RB#0	30~1000	-65.96	PASS
Band5	10MHz	16QAM	20525	50RB#0	1000~3000	-52.31	PASS
Band5	10MHz	16QAM	20525	50RB#0	3000~10000	-49.70	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.009~0.15	-47.94	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.15~30	-58.55	PASS
Band5	10MHz	16QAM	20600	50RB#0	30~1000	-59.13	PASS
Band5	10MHz	16QAM	20600	50RB#0	1000~3000	-52.48	PASS
Band5	10MHz	16QAM	20600	50RB#0	3000~10000	-49.84	PASS

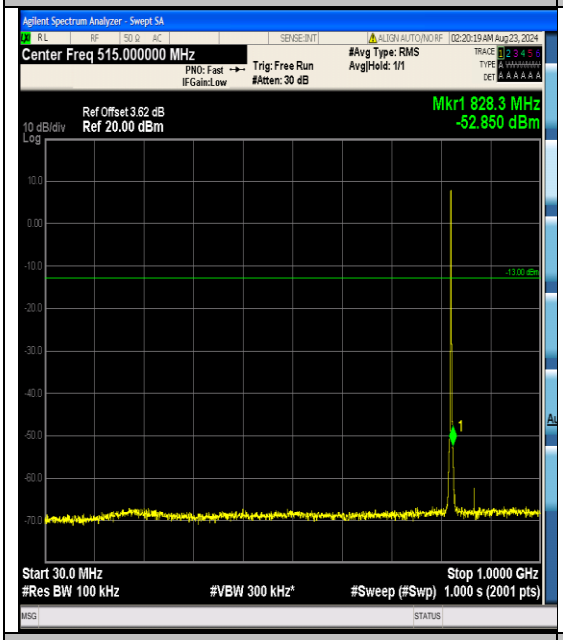
Test Graphs



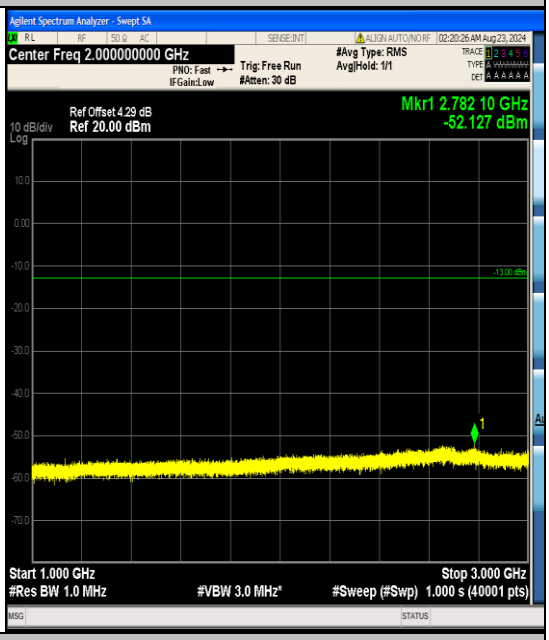
Band5_1.4MHz_QPSK_20407_6RB#0_0.009~0.15_0.009~0.15



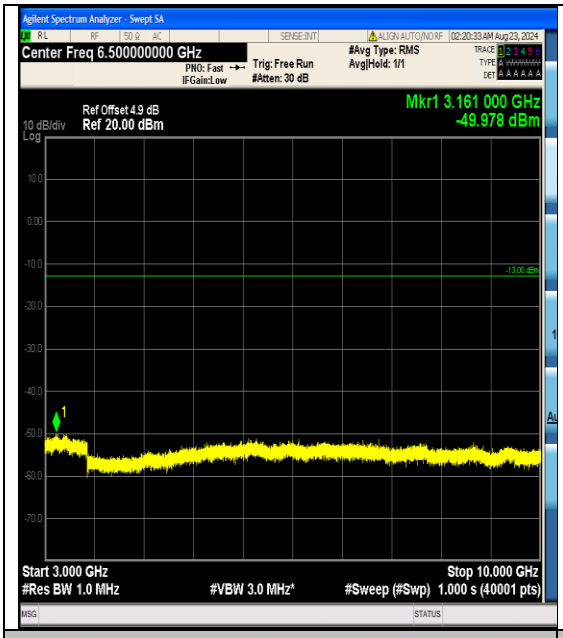
Band5_1.4MHz_QPSK_20407_6RB#0_0.15~30_0.15~30



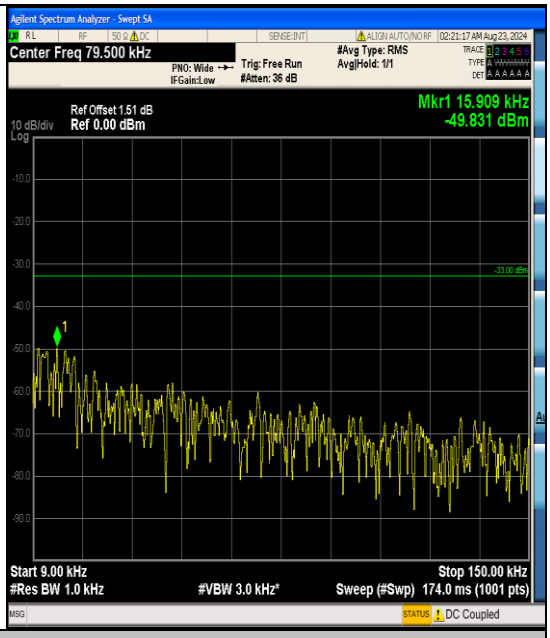
Band5_1.4MHz_QPSK_20407_6RB#0_30~1000_30~1000



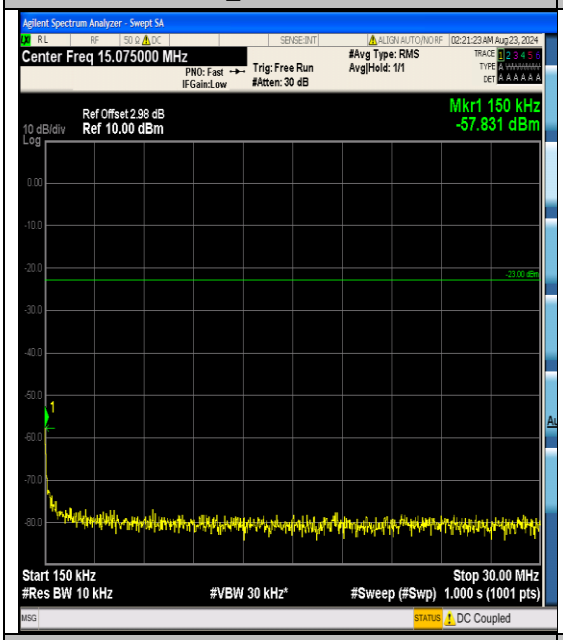
Band5_1.4MHz_QPSK_20407_6RB#0_1000~3000_1000~3000



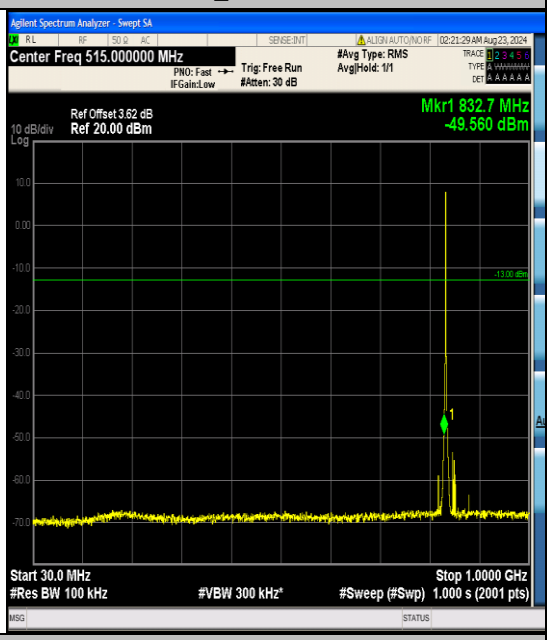
Band5_1.4MHz_QPSK_20407_6RB#0_3000~10000_3000~10000



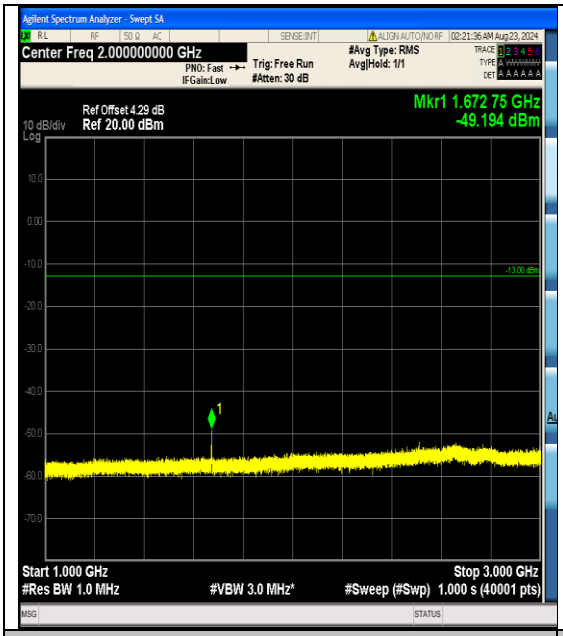
Band5_1.4MHz_QPSK_20525_6RB#0_0.009~0.15_0.009~0.15



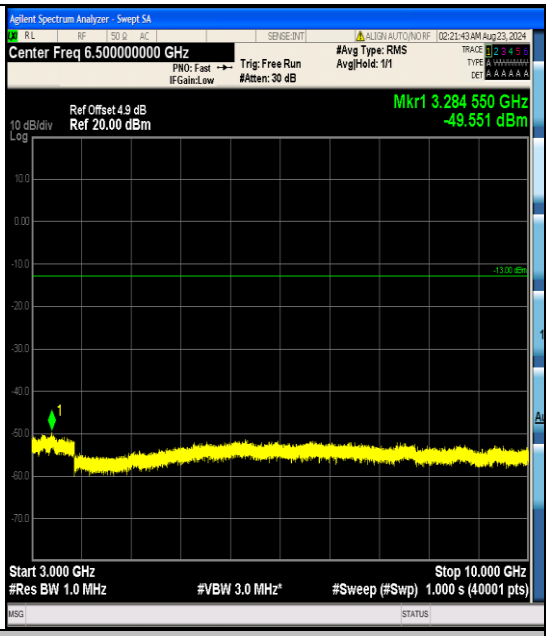
Band5_1.4MHz_QPSK_20525_6RB#0_0.15~30_0.15~30



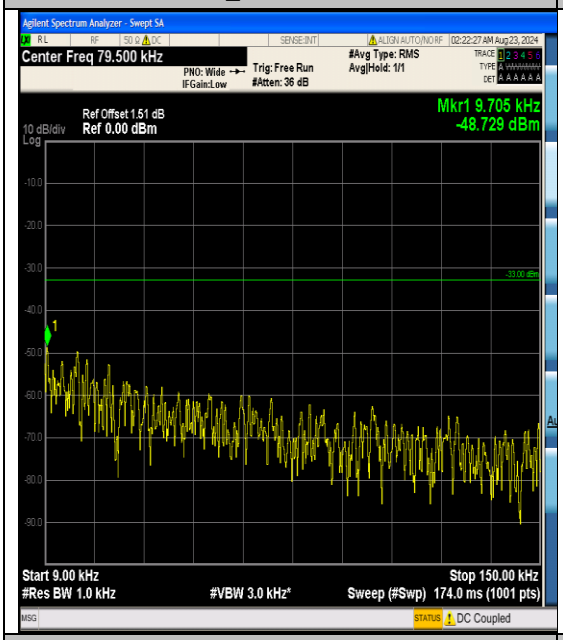
Band5_1.4MHz_QPSK_20525_6RB#0_30~1000_30~1000



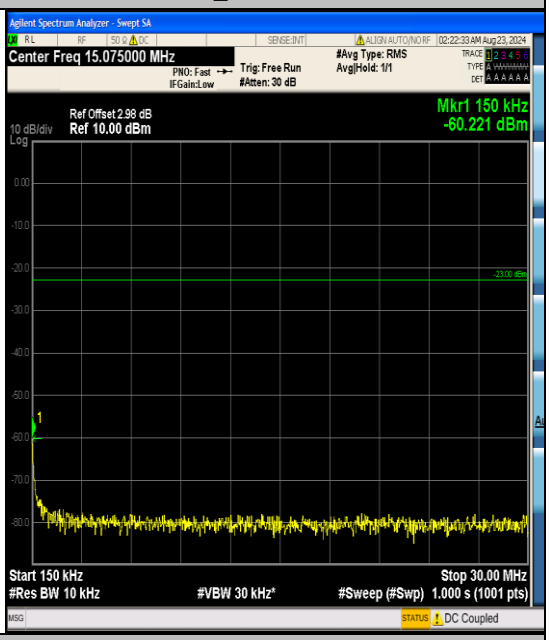
Band5_1.4MHz_QPSK_20525_6RB#0_1000~3000_1000~3000



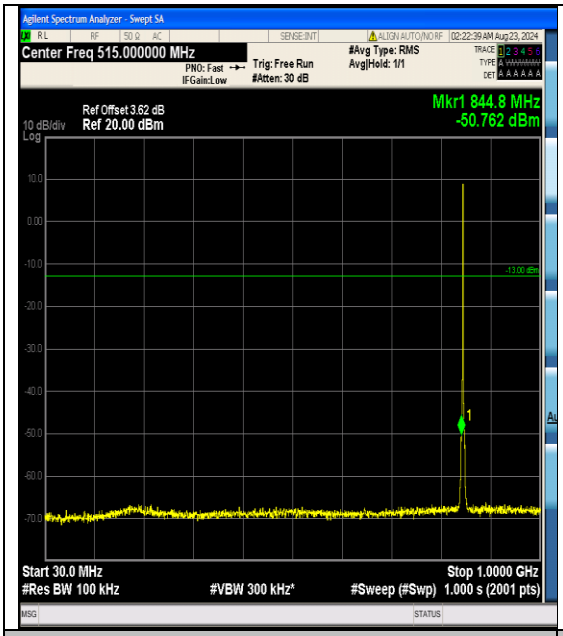
Band5_1.4MHz_QPSK_20525_6RB#0_3000~10000_3000~10000



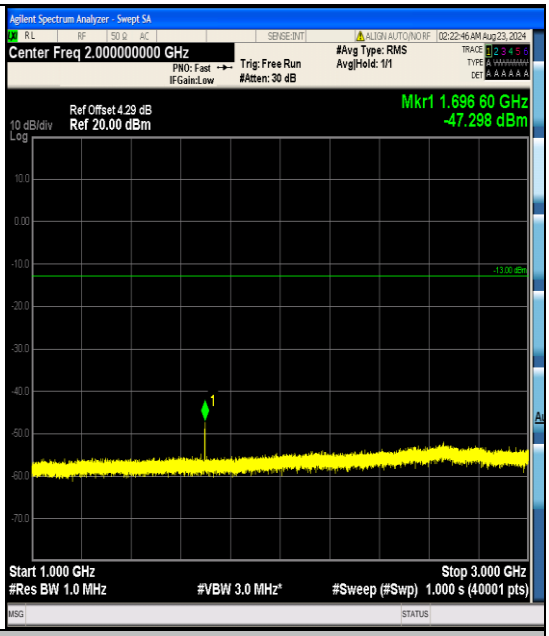
Band5_1.4MHz_QPSK_20643_6RB#0_0.009~0.15_0.009~0.15



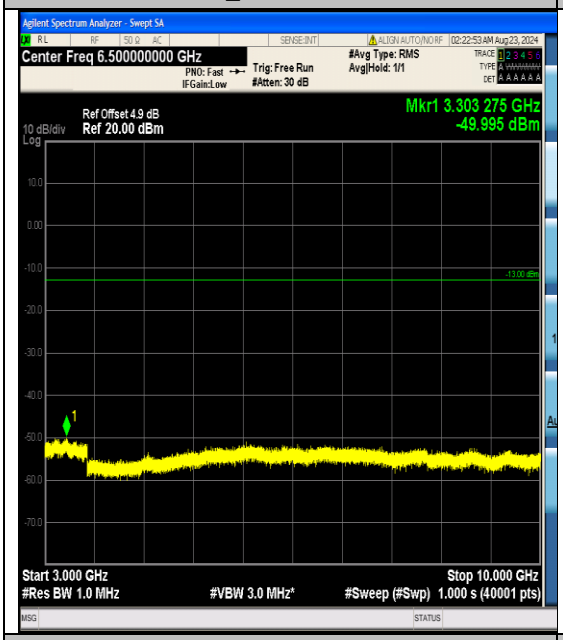
Band5_1.4MHz_QPSK_20643_6RB#0_0.15~30_0.15~30



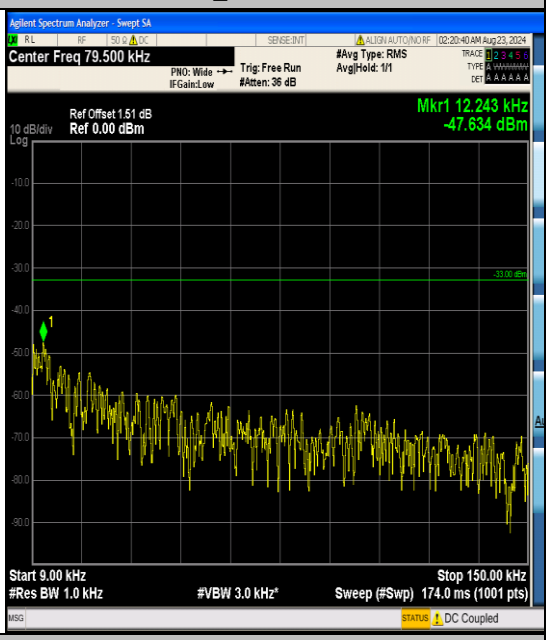
Band5_1.4MHz_QPSK_20643_6RB#0_30~1000_30~1000



Band5_1.4MHz_QPSK_20643_6RB#0_1000~3000_1000~3000



Band5_1.4MHz_QPSK_20643_6RB#0_3000~10000_3000~10000



Band5_1.4MHz_16QAM_20407_6RB#0_0.009~0.15_0.009~0.15