FCC LTE Band Test Data

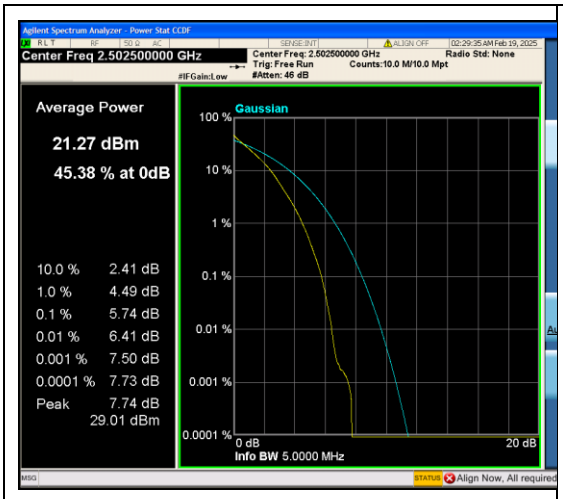
FCC ID	**:**	**2BN2I-QF9007**
Company:	**:**	**Shenzhen Qian feng INFORMATION Technology Co., LTD.**
EUT	**:**	**Vehicle navigation**
Model Number	**:**	**QF9007**
Reviewed By	**:**	**Eric Wang**

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

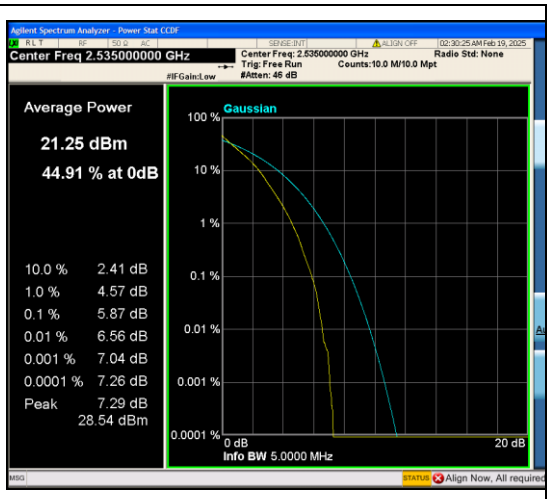
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	5.74	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.87	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.68	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	6.34	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.58	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	6.45	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.73	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.88	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.71	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	6.42	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.58	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	6.51	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	6.01	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	6.17	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.98	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.48	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.66	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	6.54	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.74	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.97	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.78	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.55	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.59	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.50	13	PASS

Test Graphs



Band7-5MHz-QPSK-20775-25RB#0-PASS



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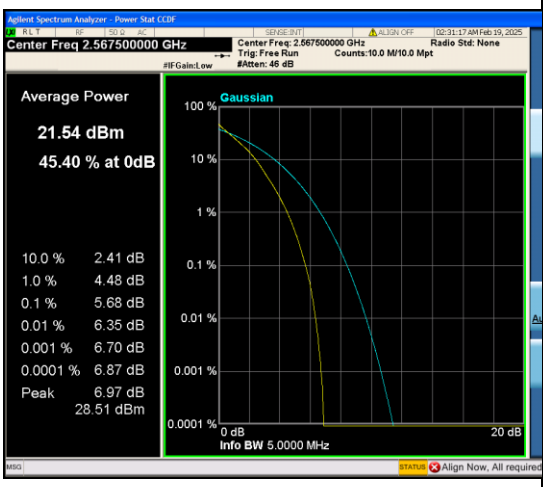

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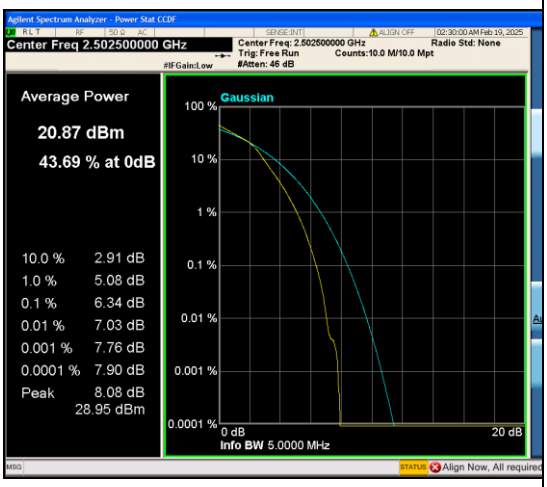

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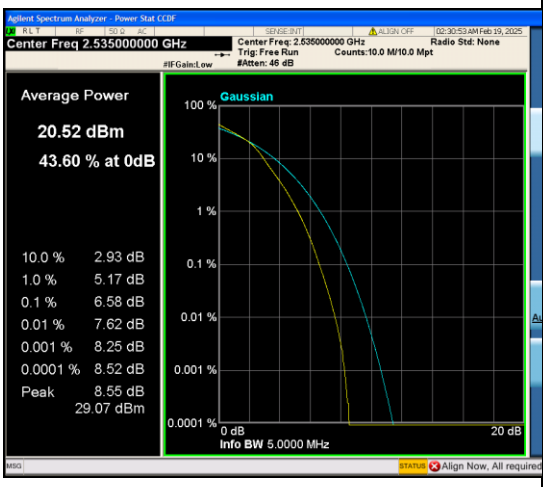

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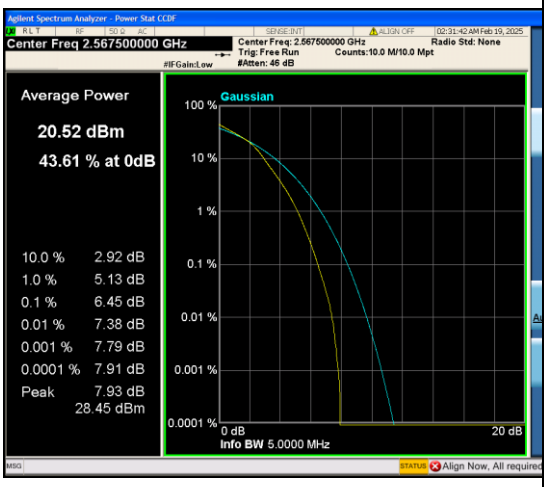

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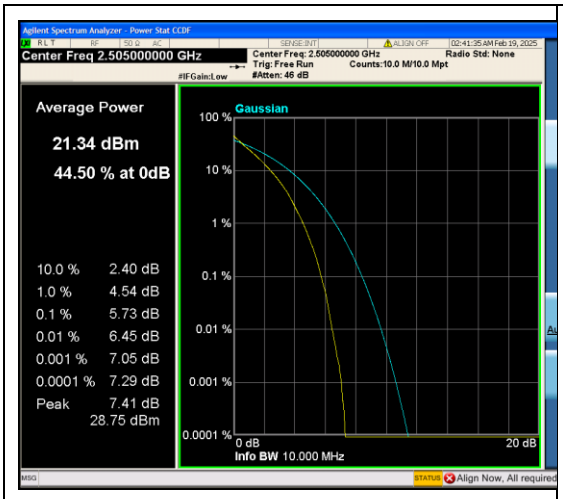

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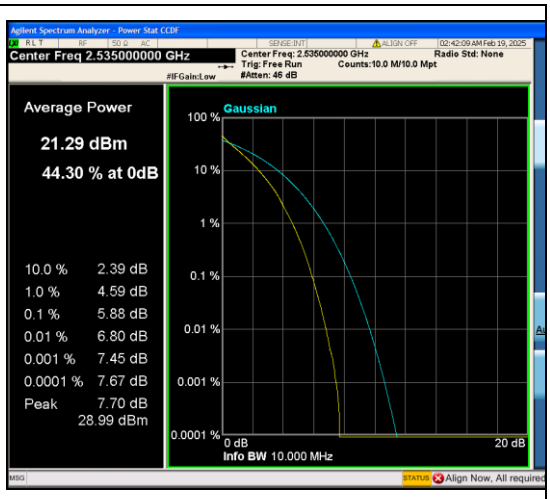

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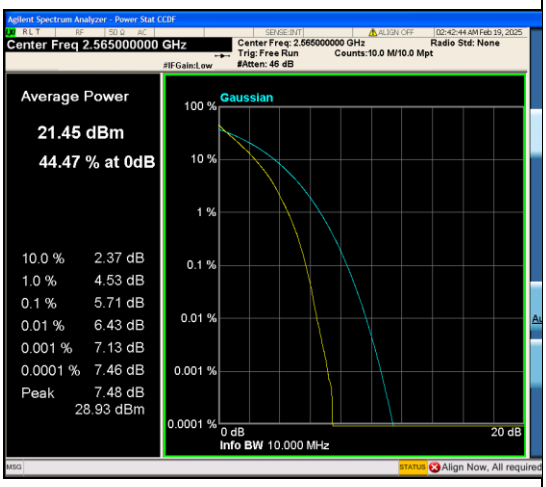

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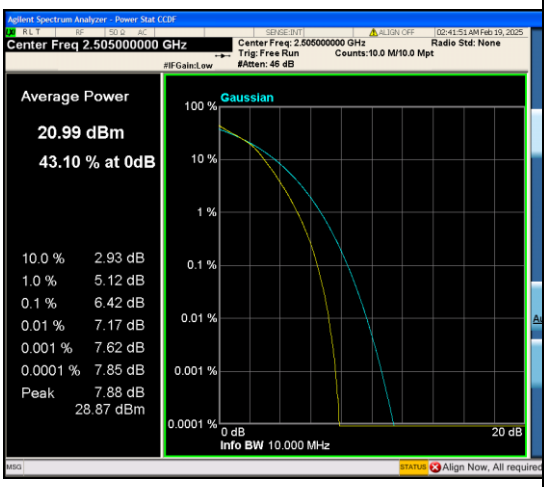

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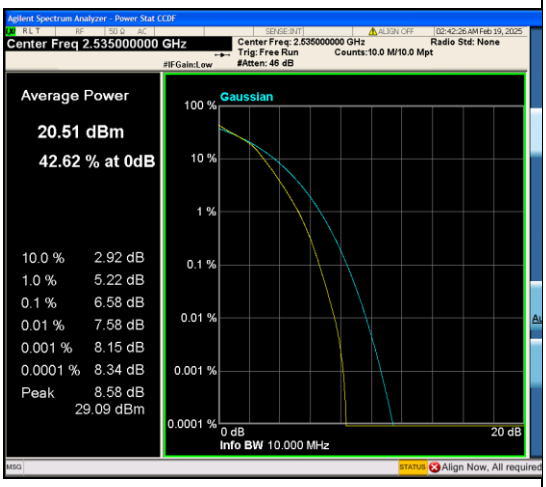

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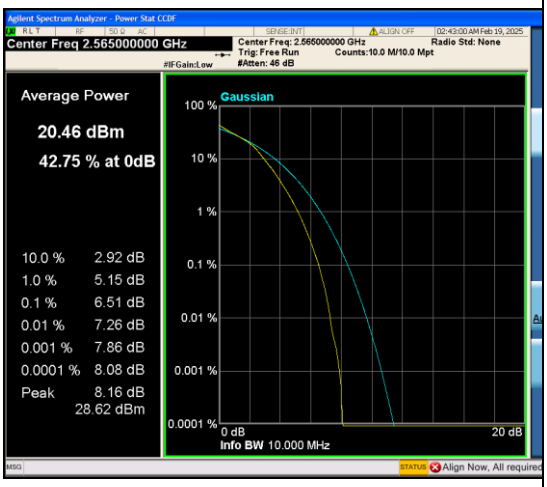

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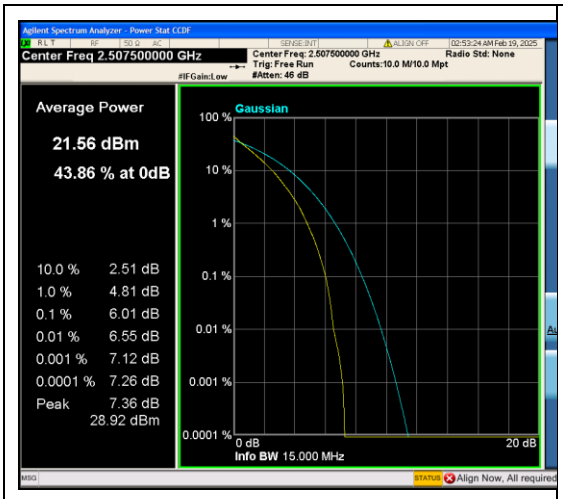
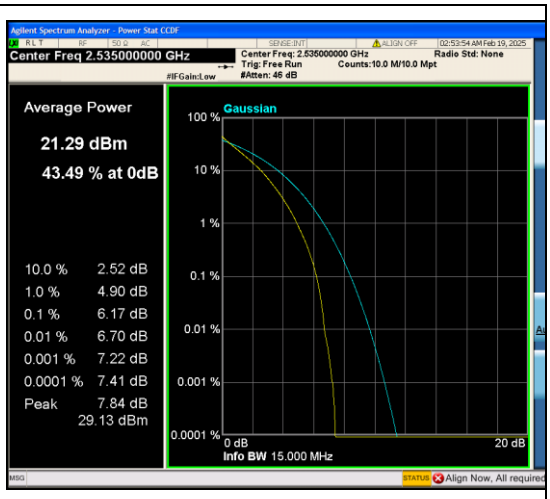


Band7-15MHz-QPSK-20825-75RB#0-PASS



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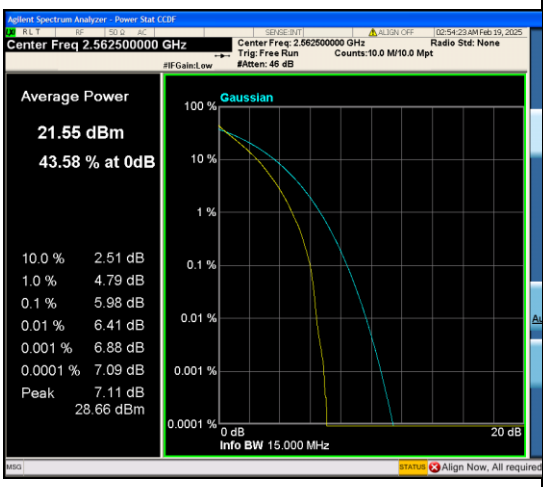

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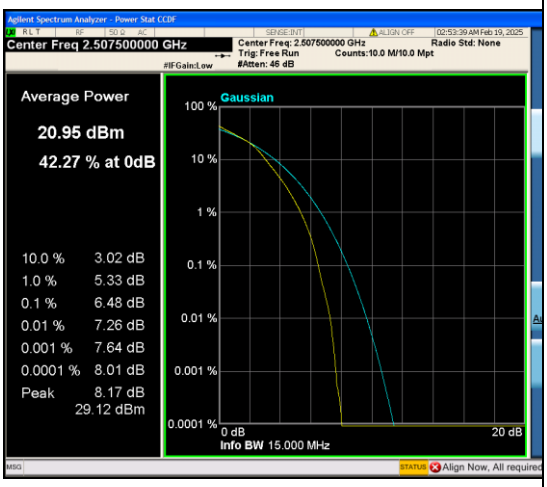

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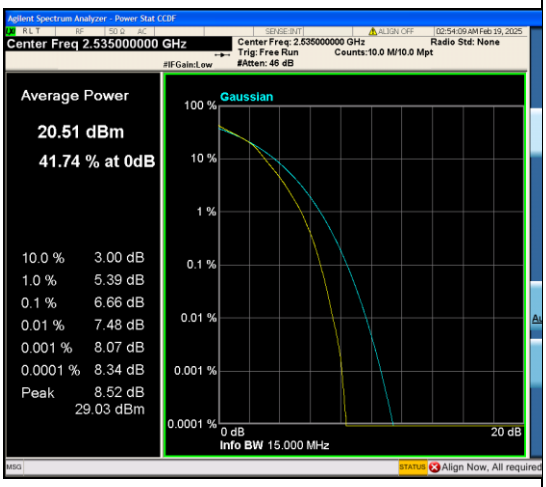

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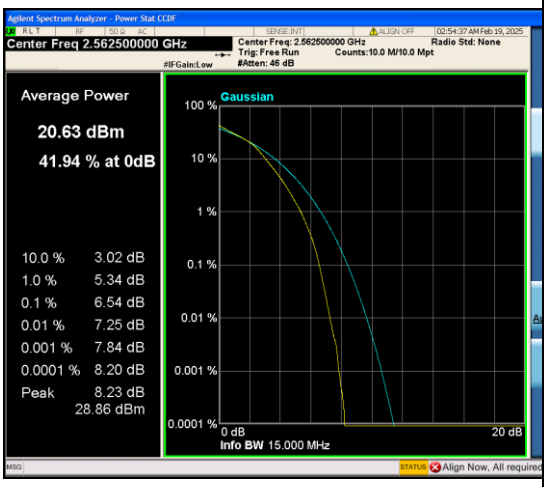

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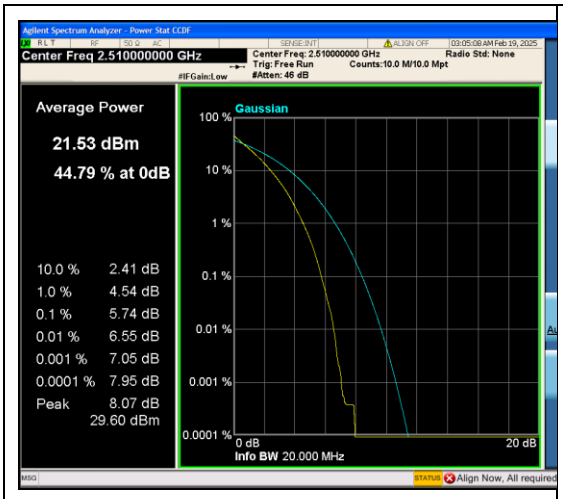
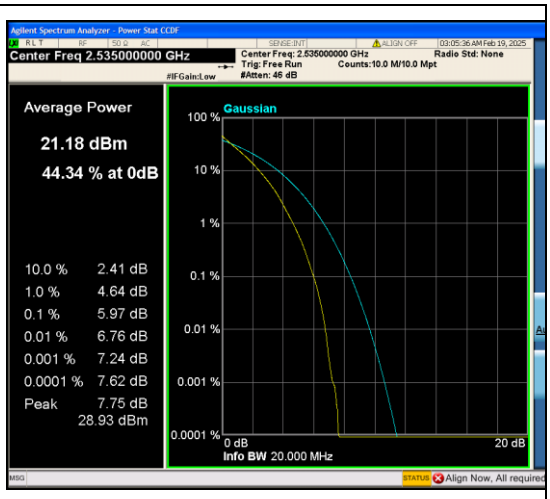


Band7-20MHz-QPSK-20850-100RB#0-PASS



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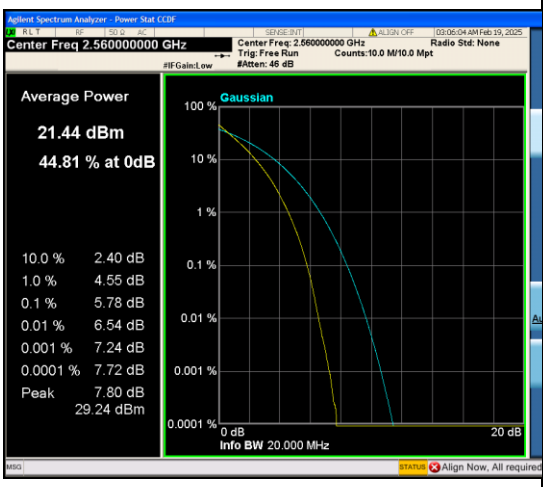

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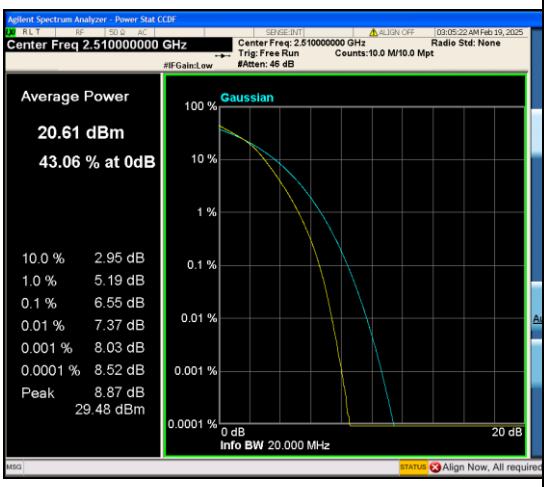

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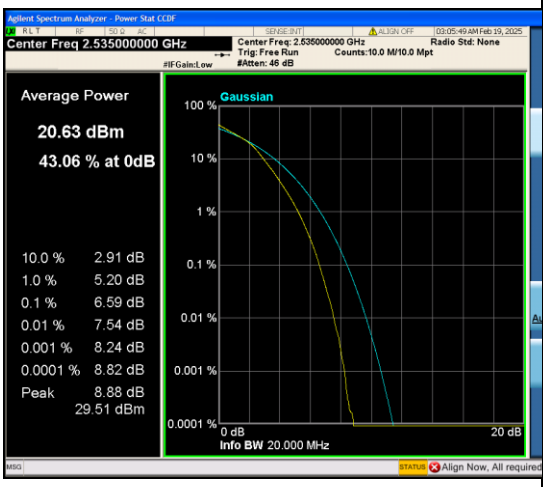

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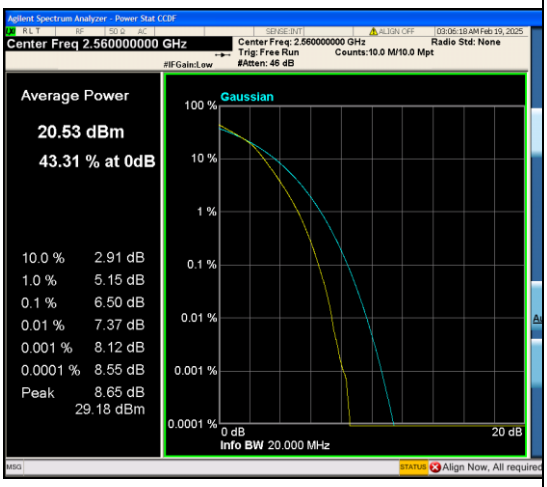


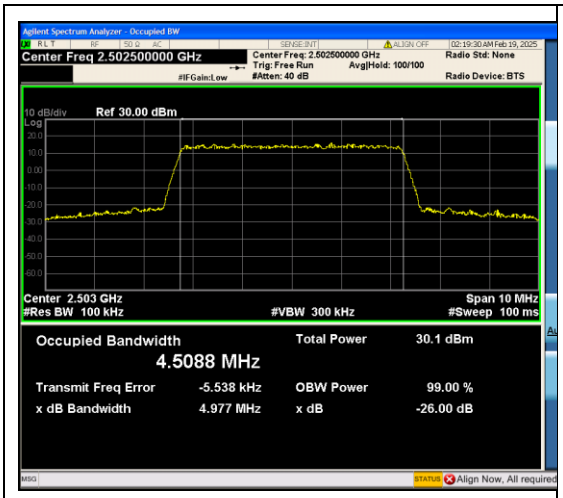
Band7-20MHz-16QAM-21350-100RB#0-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

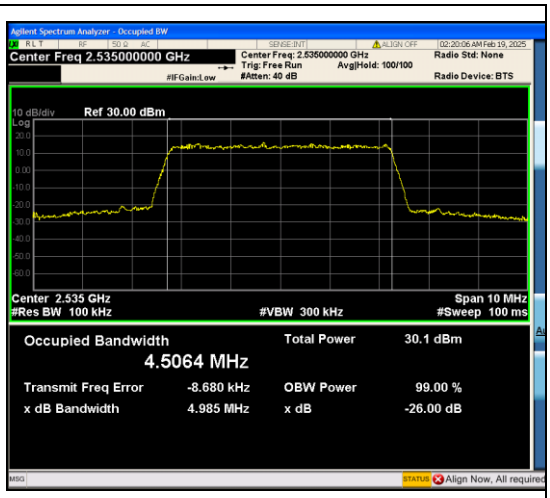
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5088	4.977	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5064	4.985	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5142	5.017	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5022	4.972	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5115	5.000	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5311	5.007	PASS
Band7	10MHz	QPSK	20800	50RB#0	9.0028	9.877	PASS
Band7	10MHz	QPSK	21100	50RB#0	9.0037	9.939	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9787	9.884	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9931	9.926	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9939	9.970	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9963	9.945	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.501	14.94	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.527	15.04	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.444	14.95	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.494	15.01	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.518	15.02	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.515	14.99	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.013	19.81	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.059	19.91	PASS
Band7	20MHz	QPSK	21350	100RB#0	18.003	19.71	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.008	19.65	PASS
Band7	20MHz	16QAM	21100	100RB#0	18.009	19.83	PASS
Band7	20MHz	16QAM	21350	100RB#0	18.036	19.71	PASS

Test Graphs



Band7-5MHz-QPSK-20775-25RB#0-PASS



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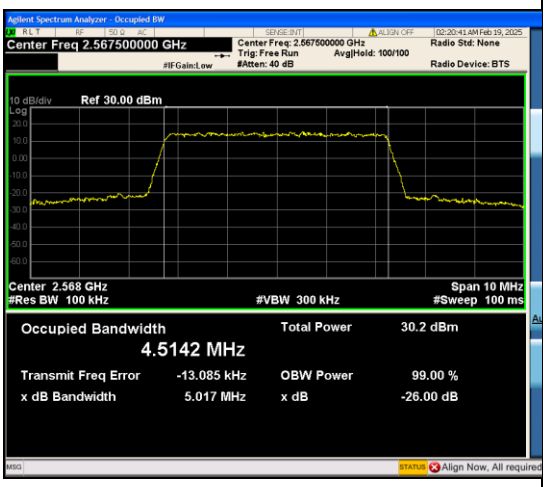

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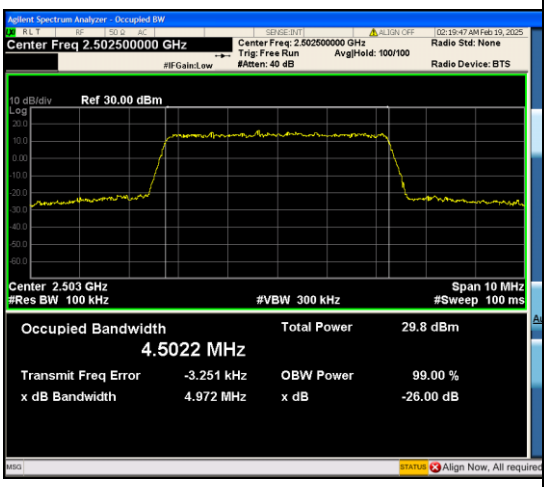
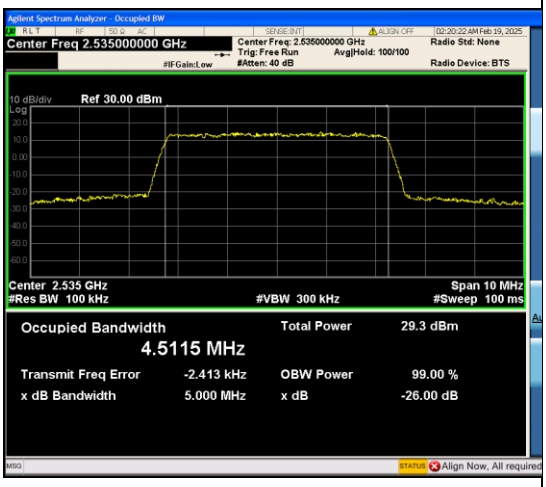


Band7-5MHz-16QAM-20775-25RB#0-PASS



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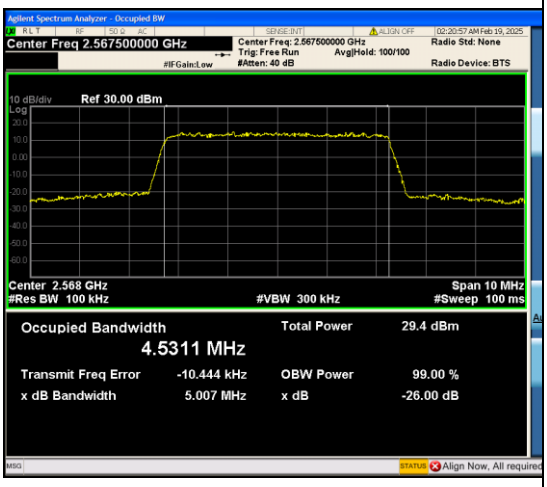

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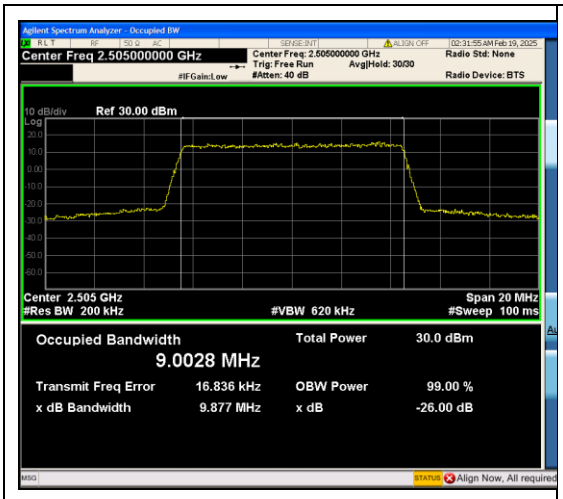
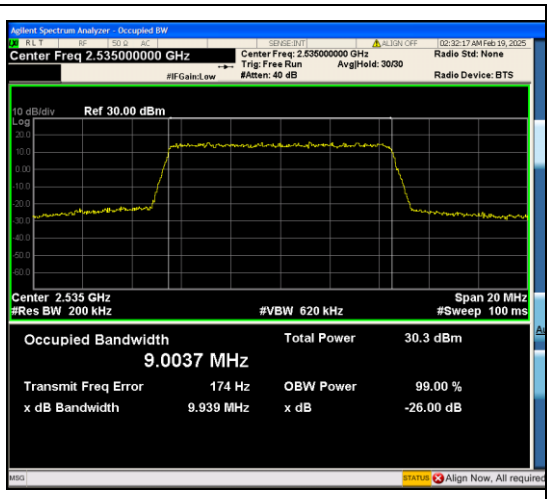


Band7-10MHz-QPSK-20800-50RB#0-PASS



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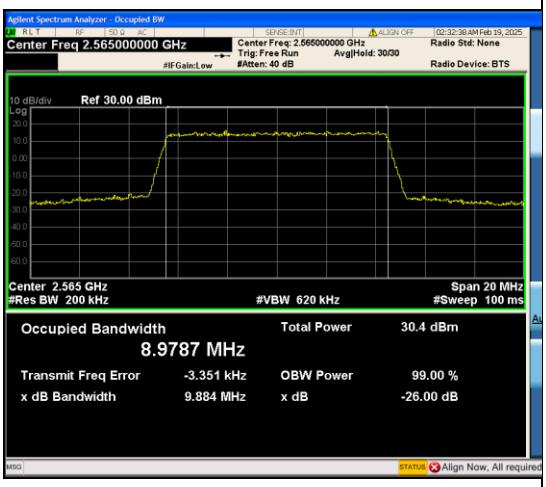
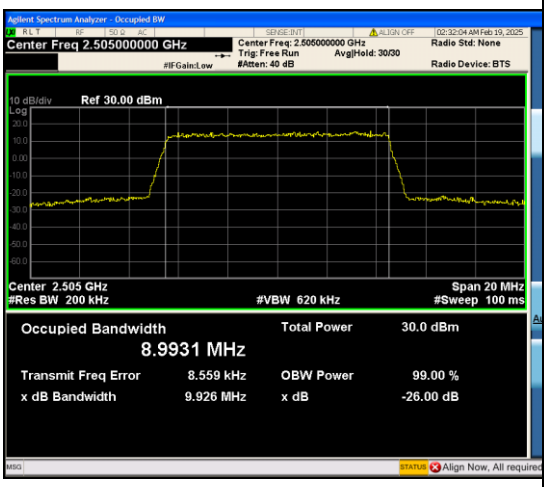


Band7-10MHz-QPSK-21400-50RB#0-PASS



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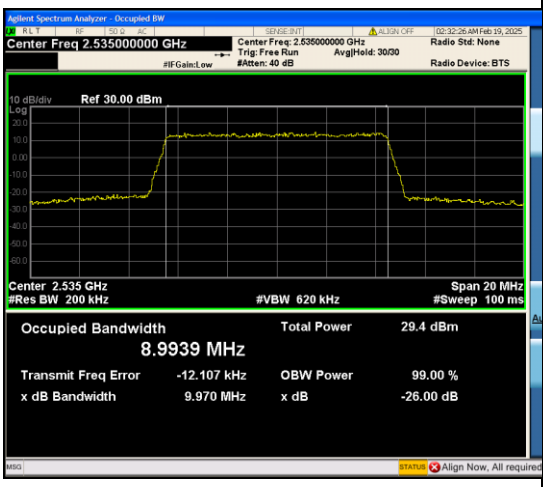

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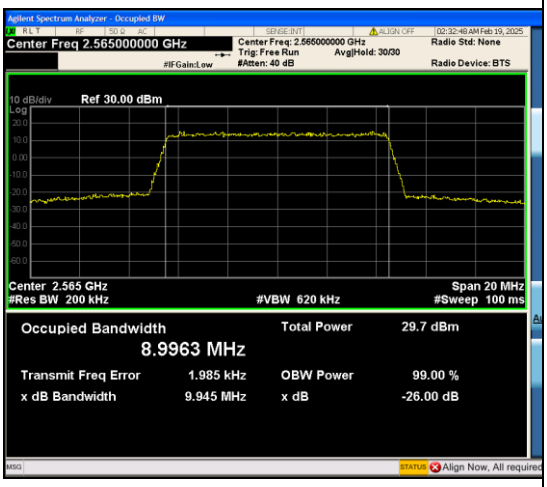

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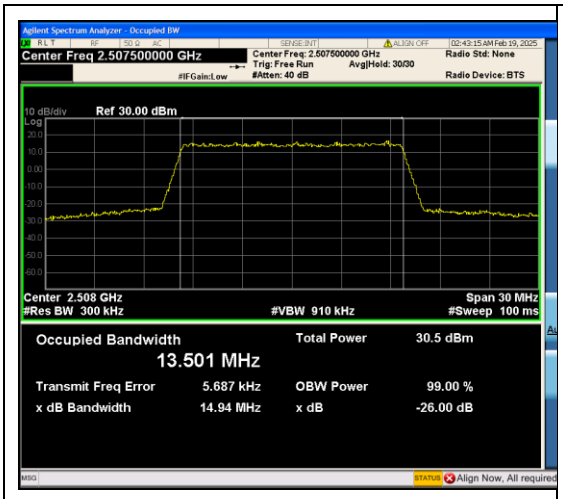
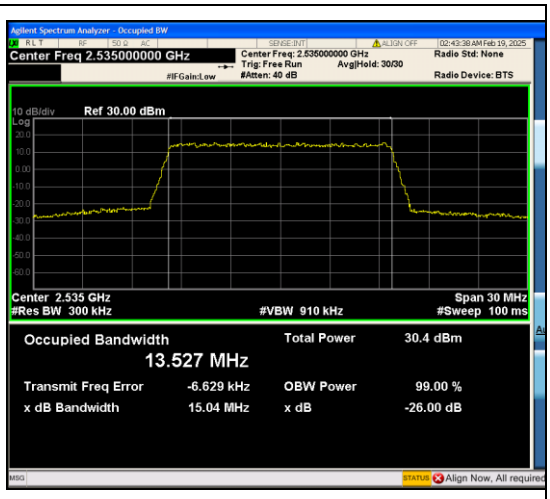
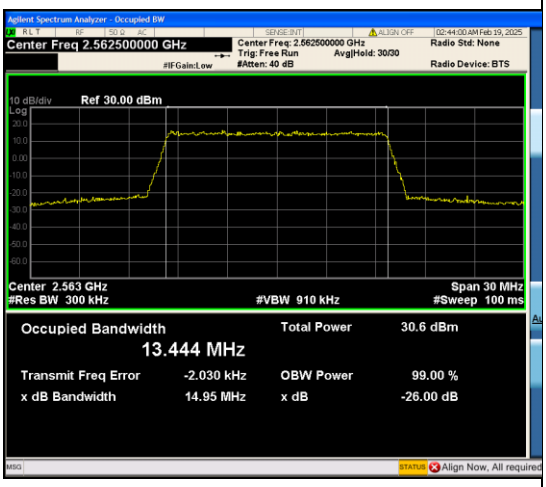


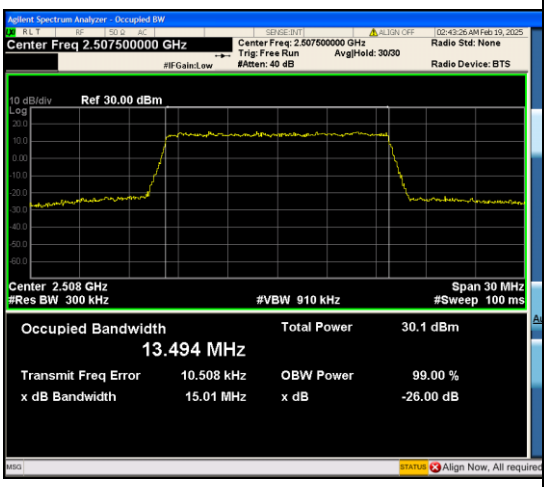
Band7-15MHz-QPSK-20825-75RB#0-PASS



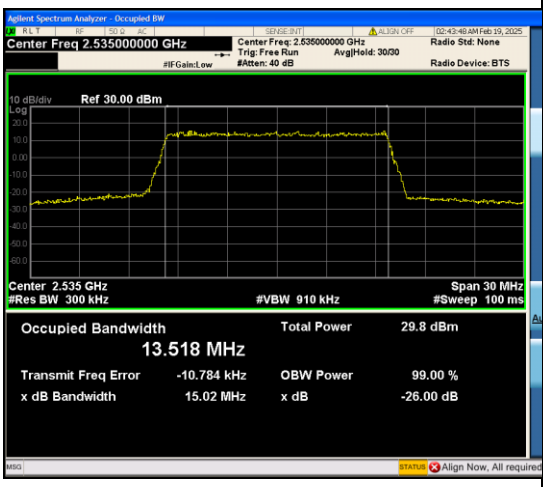
Band7-15MHz-QPSK-21100-75RB#0-PASS



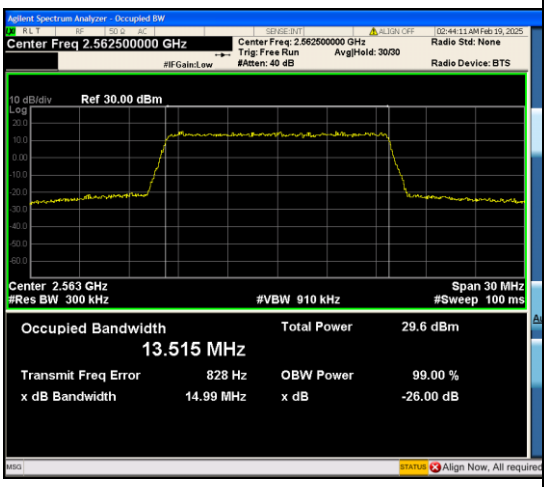
Band7-15MHz-QPSK-21375-75RB#0-PASS



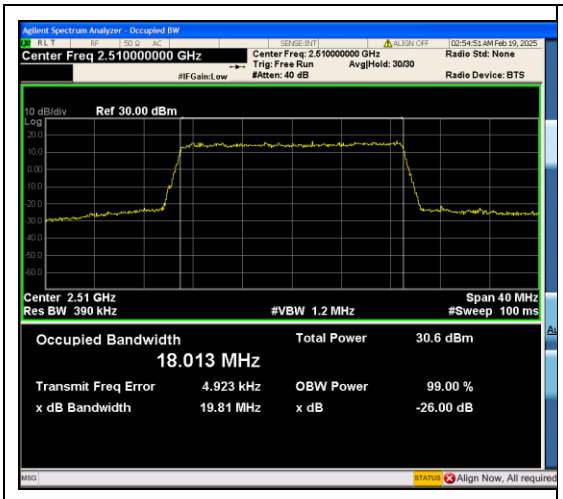
Band7-15MHz-16QAM-20825-75RB#0-PASS



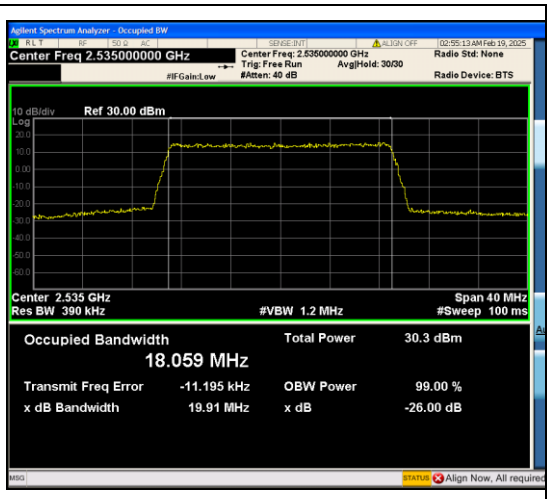
Band7-15MHz-16QAM-21100-75RB#0-PASS



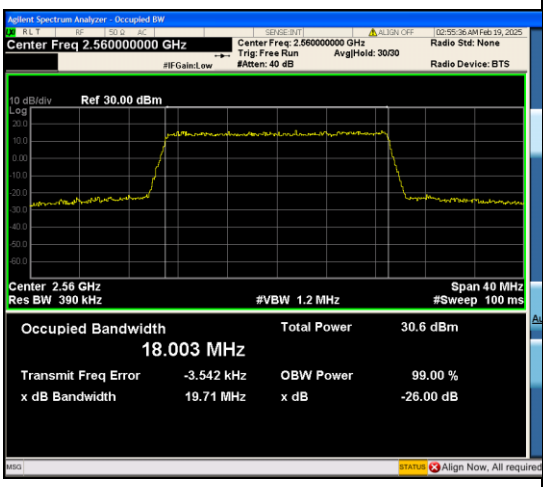
Band7-15MHz-16QAM-21375-75RB#0-PASS



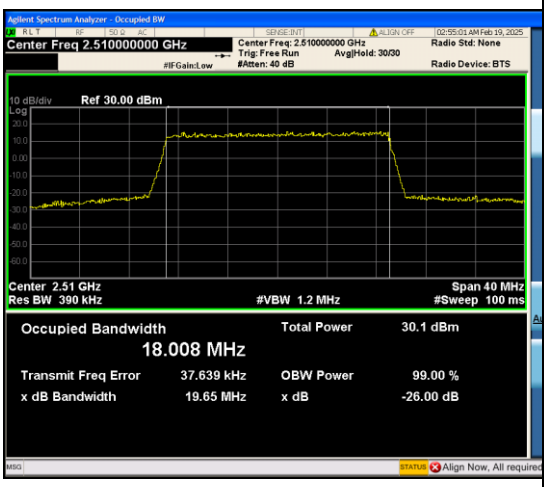
Band7-20MHz-QPSK-20850-100RB#0-PASS



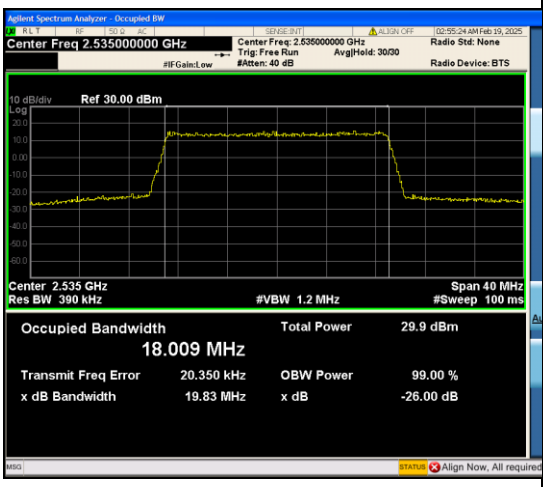
Band7-20MHz-QPSK-21100-100RB#0-PASS



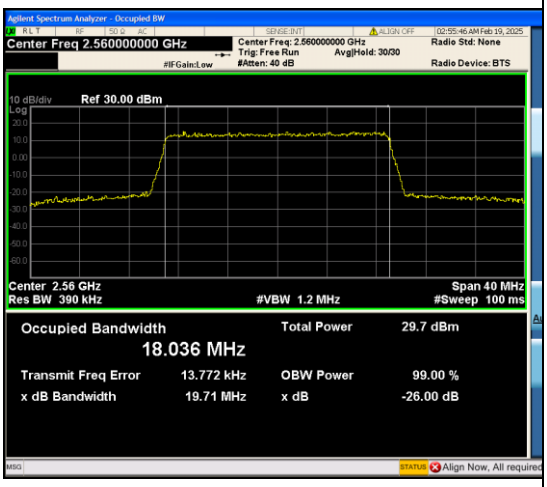
Band7-20MHz-QPSK-21350-100RB#0-PASS



Band7-20MHz-16QAM-20850-100RB#0-PASS



Band7-20MHz-16QAM-21100-100RB#0-PASS



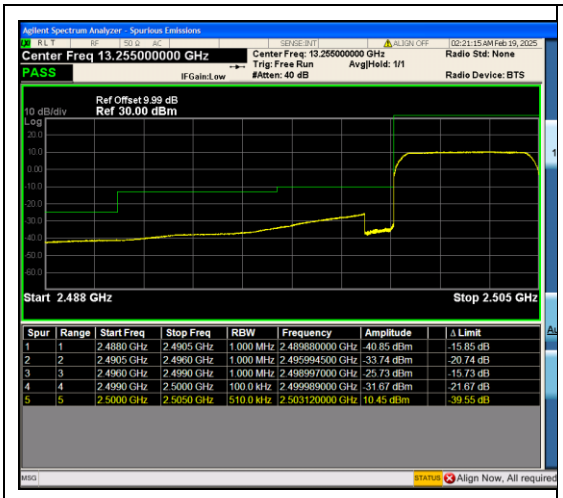
Band7-20MHz-16QAM-21350-100RB#0-PASS

Appendix D: Band Edge

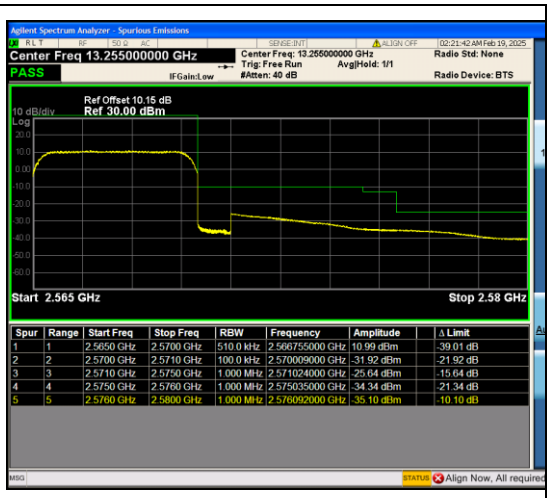
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	-25.73	PASS
Band7	5MHz	QPSK	21425	25RB#0	-35.10	PASS
Band7	5MHz	16QAM	20775	25RB#0	-25.08	PASS
Band7	5MHz	16QAM	21425	25RB#0	-35.46	PASS
Band7	10MHz	QPSK	20800	50RB#0	-39.09	PASS
Band7	10MHz	QPSK	21400	50RB#0	-37.61	PASS
Band7	10MHz	16QAM	20800	50RB#0	-38.44	PASS
Band7	10MHz	16QAM	21400	50RB#0	-37.08	PASS
Band7	15MHz	QPSK	20825	75RB#0	-40.77	PASS
Band7	15MHz	QPSK	21375	75RB#0	-39.08	PASS
Band7	15MHz	16QAM	20825	75RB#0	-40.52	PASS
Band7	15MHz	16QAM	21375	75RB#0	-38.71	PASS
Band7	20MHz	QPSK	20850	100RB#0	-42.73	PASS
Band7	20MHz	QPSK	21350	100RB#0	-41.69	PASS
Band7	20MHz	16QAM	20850	100RB#0	-42.68	PASS
Band7	20MHz	16QAM	21350	100RB#0	-41.45	PASS

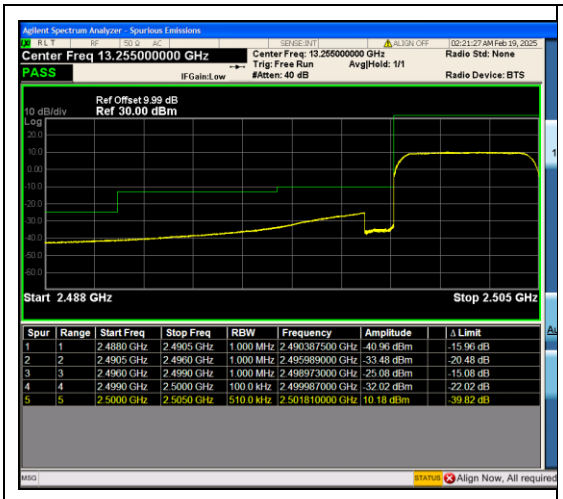
Test Graphs



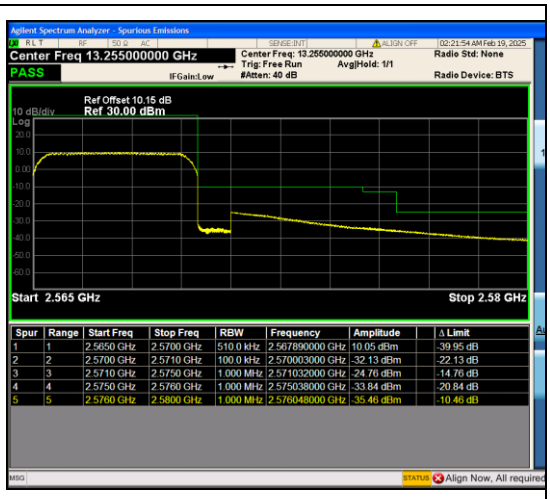
Band7_5MHz_QPSK_20775_25RB#0



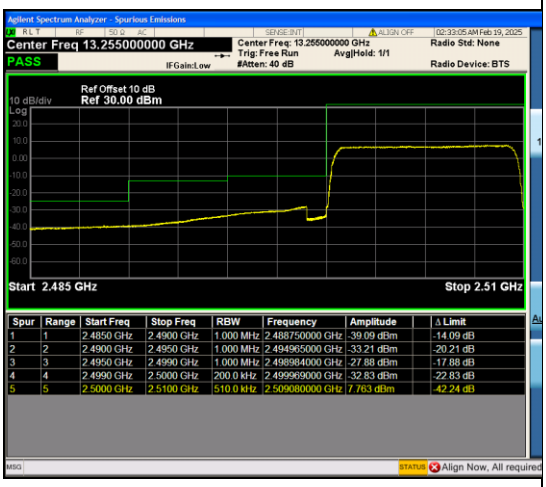
Band7_5MHz_QPSK_21425_25RB#0



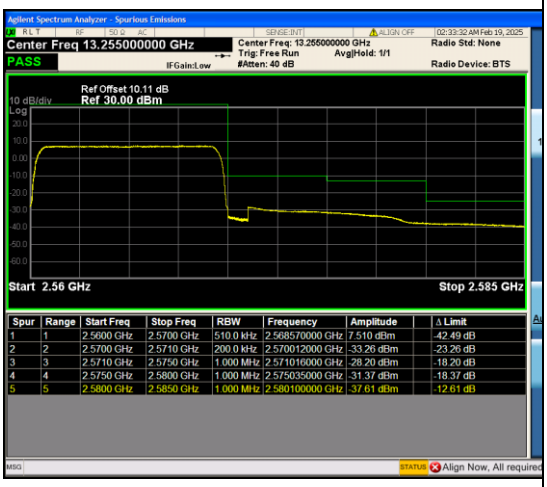
Band7_5MHz_16QAM_20775_25RB#0



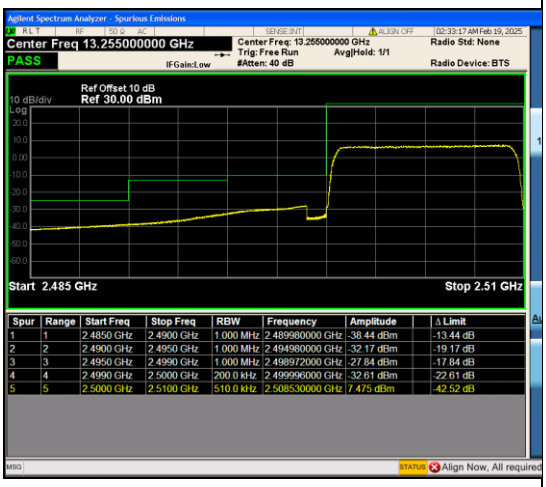
Band7_5MHz_16QAM_21425_25RB#0



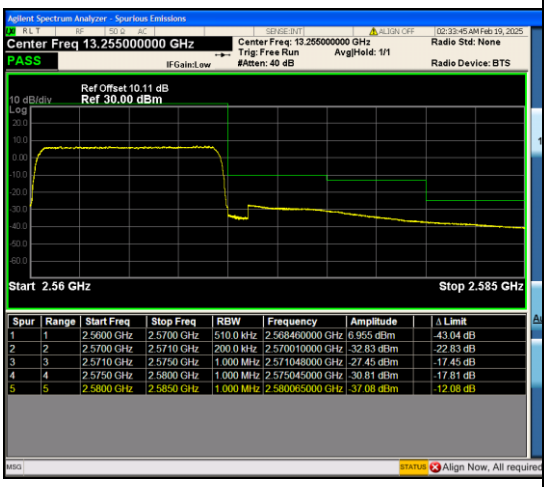
Band7_10MHz_QPSK_20800_50RB#0



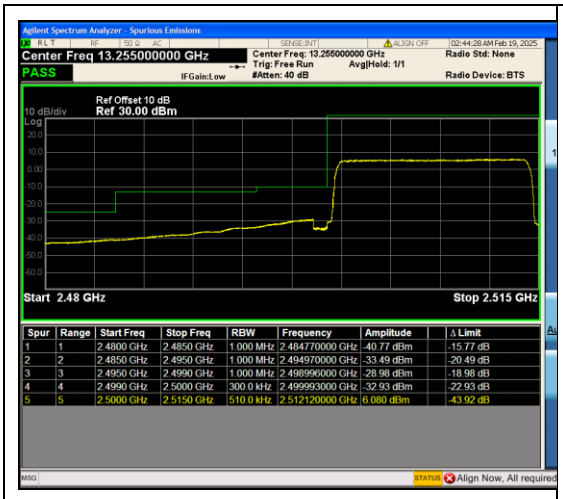
Band7_10MHz_QPSK_21400_50RB#0



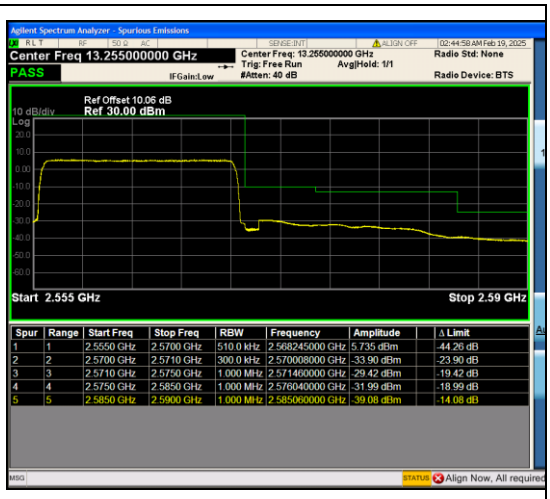
Band7_10MHz_16QAM_20800_50RB#0



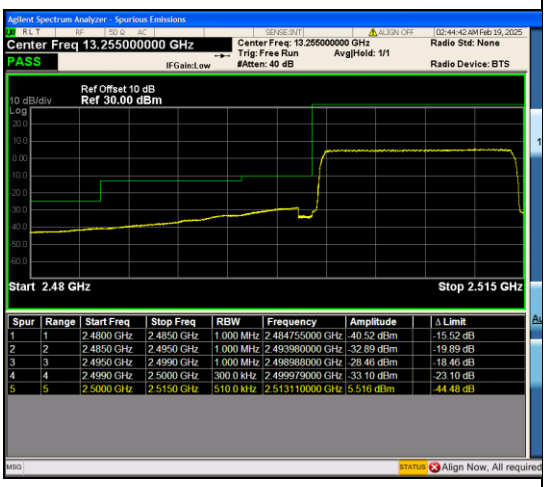
Band7_10MHz_16QAM_21400_50RB#0



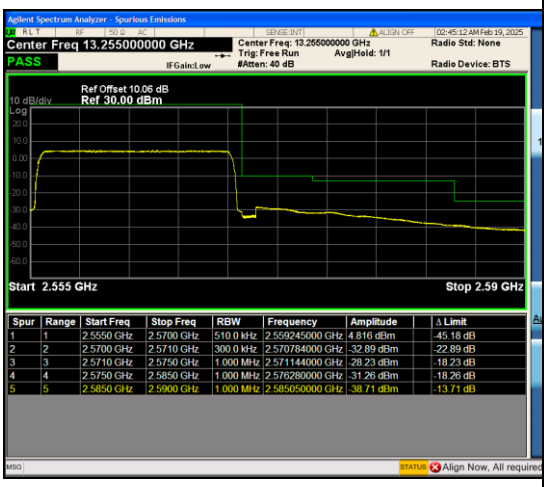
Band7_15MHz_QPSK_20825_75RB#0



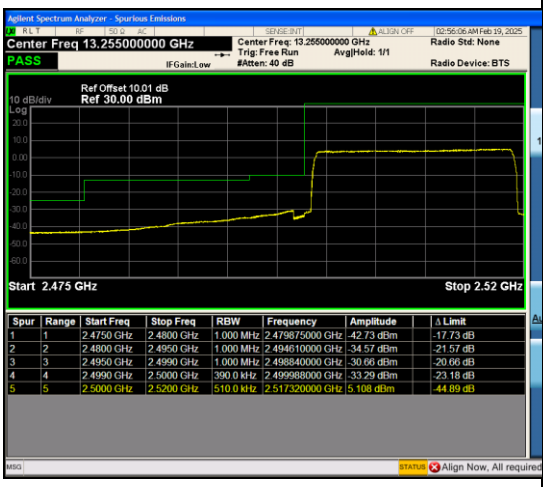
Band7_15MHz_QPSK_21375_75RB#0



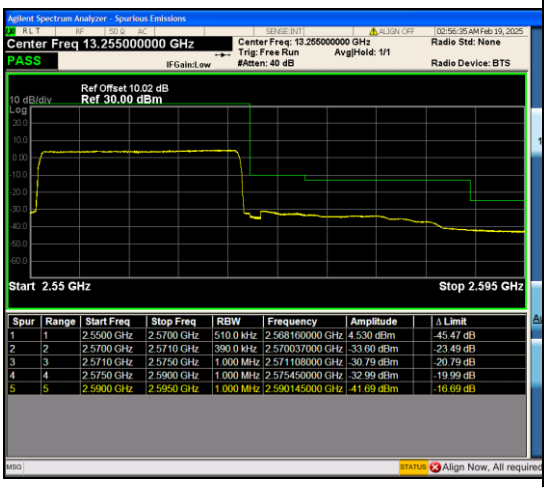
Band7_15MHz_16QAM_20825_75RB#0



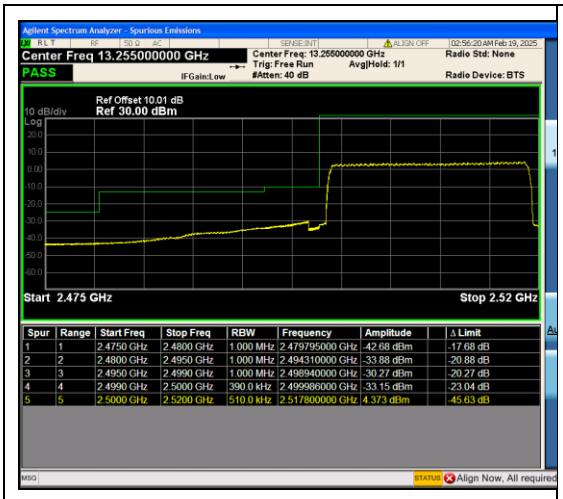
Band7_15MHz_16QAM_21375_75RB#0



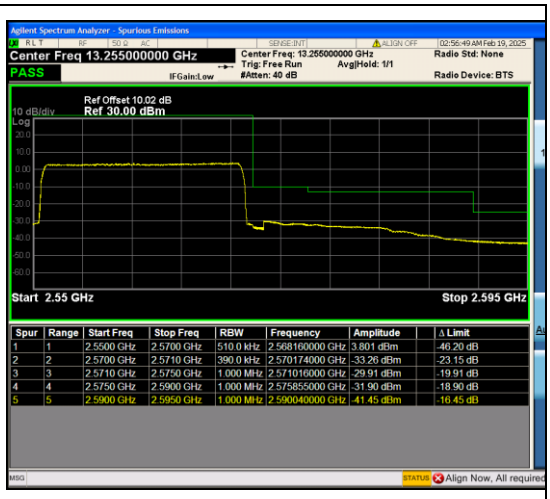
Band7_20MHz_QPSK_20850_100RB#0



Band7_20MHz_QPSK_21350_100RB#0



Band7_20MHz_16QAM_20850_100RB#0



Band7_20MHz_16QAM_21350_100RB#0

Appendix E: Conducted Spurious Emission

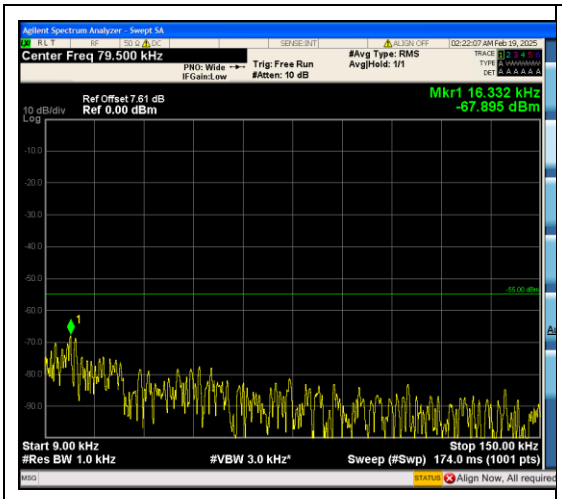
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	0.009~0.15	-67.90	PASS
Band7	5MHz	QPSK	20775	25RB#0	0.15~30	-65.52	PASS
Band7	5MHz	QPSK	20775	25RB#0	30~1000	-61.74	PASS
Band7	5MHz	QPSK	20775	25RB#0	1000~20000	-35.21	PASS
Band7	5MHz	QPSK	20775	25RB#0	20000~27000	-32.03	PASS
Band7	5MHz	QPSK	21100	25RB#0	0.009~0.15	-66.44	PASS
Band7	5MHz	QPSK	21100	25RB#0	0.15~30	-63.60	PASS
Band7	5MHz	QPSK	21100	25RB#0	30~1000	-61.89	PASS
Band7	5MHz	QPSK	21100	25RB#0	1000~20000	-34.48	PASS
Band7	5MHz	QPSK	21100	25RB#0	20000~27000	-32.18	PASS
Band7	5MHz	QPSK	21425	25RB#0	0.009~0.15	-67.68	PASS
Band7	5MHz	QPSK	21425	25RB#0	0.15~30	-64.91	PASS
Band7	5MHz	QPSK	21425	25RB#0	30~1000	-61.81	PASS
Band7	5MHz	QPSK	21425	25RB#0	1000~20000	-36.24	PASS
Band7	5MHz	QPSK	21425	25RB#0	20000~27000	-32.08	PASS
Band7	5MHz	16QAM	20775	25RB#0	0.009~0.15	-67.12	PASS
Band7	5MHz	16QAM	20775	25RB#0	0.15~30	-64.69	PASS
Band7	5MHz	16QAM	20775	25RB#0	30~1000	-61.71	PASS
Band7	5MHz	16QAM	20775	25RB#0	1000~20000	-37.76	PASS
Band7	5MHz	16QAM	20775	25RB#0	20000~27000	-31.97	PASS
Band7	5MHz	16QAM	21100	25RB#0	0.009~0.15	-67.57	PASS
Band7	5MHz	16QAM	21100	25RB#0	0.15~30	-65.57	PASS
Band7	5MHz	16QAM	21100	25RB#0	30~1000	-61.93	PASS
Band7	5MHz	16QAM	21100	25RB#0	1000~20000	-37.87	PASS
Band7	5MHz	16QAM	21100	25RB#0	20000~27000	-32.33	PASS
Band7	5MHz	16QAM	21425	25RB#0	0.009~0.15	-66.45	PASS
Band7	5MHz	16QAM	21425	25RB#0	0.15~30	-64.32	PASS
Band7	5MHz	16QAM	21425	25RB#0	30~1000	-62.01	PASS
Band7	5MHz	16QAM	21425	25RB#0	1000~20000	-37.12	PASS
Band7	5MHz	16QAM	21425	25RB#0	20000~27000	-32.04	PASS
Band7	10MHz	QPSK	20800	50RB#0	0.009~0.15	-70.77	PASS
Band7	10MHz	QPSK	20800	50RB#0	0.15~30	-62.42	PASS
Band7	10MHz	QPSK	20800	50RB#0	30~1000	-61.66	PASS
Band7	10MHz	QPSK	20800	50RB#0	1000~20000	-37.05	PASS
Band7	10MHz	QPSK	20800	50RB#0	20000~27000	-32.21	PASS
Band7	10MHz	QPSK	21100	50RB#0	0.009~0.15	-66.93	PASS

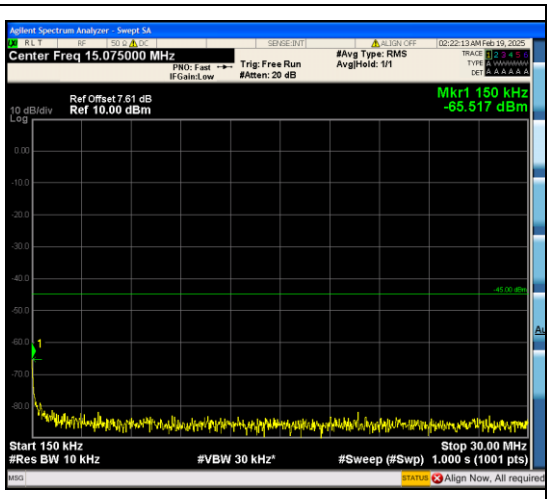
Band7	10MHz	QPSK	21100	50RB#0	0.15~30	-64.09	PASS
Band7	10MHz	QPSK	21100	50RB#0	30~1000	-61.75	PASS
Band7	10MHz	QPSK	21100	50RB#0	1000~20000	-37.86	PASS
Band7	10MHz	QPSK	21100	50RB#0	20000~27000	-31.87	PASS
Band7	10MHz	QPSK	21400	50RB#0	0.009~0.15	-68.17	PASS
Band7	10MHz	QPSK	21400	50RB#0	0.15~30	-63.84	PASS
Band7	10MHz	QPSK	21400	50RB#0	30~1000	-61.73	PASS
Band7	10MHz	QPSK	21400	50RB#0	1000~20000	-38.67	PASS
Band7	10MHz	QPSK	21400	50RB#0	20000~27000	-31.67	PASS
Band7	10MHz	16QAM	20800	50RB#0	0.009~0.15	-70.11	PASS
Band7	10MHz	16QAM	20800	50RB#0	0.15~30	-64.07	PASS
Band7	10MHz	16QAM	20800	50RB#0	30~1000	-61.72	PASS
Band7	10MHz	16QAM	20800	50RB#0	1000~20000	-38.70	PASS
Band7	10MHz	16QAM	20800	50RB#0	20000~27000	-32.14	PASS
Band7	10MHz	16QAM	21100	50RB#0	0.009~0.15	-65.37	PASS
Band7	10MHz	16QAM	21100	50RB#0	0.15~30	-64.15	PASS
Band7	10MHz	16QAM	21100	50RB#0	30~1000	-61.40	PASS
Band7	10MHz	16QAM	21100	50RB#0	1000~20000	-38.82	PASS
Band7	10MHz	16QAM	21100	50RB#0	20000~27000	-32.26	PASS
Band7	10MHz	16QAM	21400	50RB#0	0.009~0.15	-66.67	PASS
Band7	10MHz	16QAM	21400	50RB#0	0.15~30	-63.91	PASS
Band7	10MHz	16QAM	21400	50RB#0	30~1000	-61.85	PASS
Band7	10MHz	16QAM	21400	50RB#0	1000~20000	-38.49	PASS
Band7	10MHz	16QAM	21400	50RB#0	20000~27000	-32.19	PASS
Band7	15MHz	QPSK	20825	75RB#0	0.009~0.15	-67.54	PASS
Band7	15MHz	QPSK	20825	75RB#0	0.15~30	-62.36	PASS
Band7	15MHz	QPSK	20825	75RB#0	30~1000	-61.78	PASS
Band7	15MHz	QPSK	20825	75RB#0	1000~20000	-37.97	PASS
Band7	15MHz	QPSK	20825	75RB#0	20000~27000	-32.11	PASS
Band7	15MHz	QPSK	21100	75RB#0	0.009~0.15	-65.41	PASS
Band7	15MHz	QPSK	21100	75RB#0	0.15~30	-64.99	PASS
Band7	15MHz	QPSK	21100	75RB#0	30~1000	-61.74	PASS
Band7	15MHz	QPSK	21100	75RB#0	1000~20000	-37.08	PASS
Band7	15MHz	QPSK	21100	75RB#0	20000~27000	-32.02	PASS
Band7	15MHz	QPSK	21375	75RB#0	0.009~0.15	-68.28	PASS
Band7	15MHz	QPSK	21375	75RB#0	0.15~30	-63.29	PASS
Band7	15MHz	QPSK	21375	75RB#0	30~1000	-61.86	PASS
Band7	15MHz	QPSK	21375	75RB#0	1000~20000	-38.63	PASS
Band7	15MHz	QPSK	21375	75RB#0	20000~27000	-32.56	PASS
Band7	15MHz	16QAM	20825	75RB#0	0.009~0.15	-67.74	PASS
Band7	15MHz	16QAM	20825	75RB#0	0.15~30	-65.95	PASS
Band7	15MHz	16QAM	20825	75RB#0	30~1000	-61.61	PASS
Band7	15MHz	16QAM	20825	75RB#0	1000~20000	-38.93	PASS

Band7	15MHz	16QAM	20825	75RB#0	20000~27000	-32.27	PASS
Band7	15MHz	16QAM	21100	75RB#0	0.009~0.15	-66.27	PASS
Band7	15MHz	16QAM	21100	75RB#0	0.15~30	-63.32	PASS
Band7	15MHz	16QAM	21100	75RB#0	30~1000	-62.04	PASS
Band7	15MHz	16QAM	21100	75RB#0	1000~20000	-38.20	PASS
Band7	15MHz	16QAM	21100	75RB#0	20000~27000	-32.30	PASS
Band7	15MHz	16QAM	21375	75RB#0	0.009~0.15	-67.42	PASS
Band7	15MHz	16QAM	21375	75RB#0	0.15~30	-63.71	PASS
Band7	15MHz	16QAM	21375	75RB#0	30~1000	-61.92	PASS
Band7	15MHz	16QAM	21375	75RB#0	1000~20000	-38.57	PASS
Band7	15MHz	16QAM	21375	75RB#0	20000~27000	-32.11	PASS
Band7	20MHz	QPSK	20850	100RB#0	0.009~0.15	-69.53	PASS
Band7	20MHz	QPSK	20850	100RB#0	0.15~30	-64.45	PASS
Band7	20MHz	QPSK	20850	100RB#0	30~1000	-61.96	PASS
Band7	20MHz	QPSK	20850	100RB#0	1000~20000	-38.42	PASS
Band7	20MHz	QPSK	20850	100RB#0	20000~27000	-32.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	0.009~0.15	-68.29	PASS
Band7	20MHz	QPSK	21100	100RB#0	0.15~30	-63.21	PASS
Band7	20MHz	QPSK	21100	100RB#0	30~1000	-61.83	PASS
Band7	20MHz	QPSK	21100	100RB#0	1000~20000	-38.27	PASS
Band7	20MHz	QPSK	21100	100RB#0	20000~27000	-32.01	PASS
Band7	20MHz	QPSK	21350	100RB#0	0.009~0.15	-69.63	PASS
Band7	20MHz	QPSK	21350	100RB#0	0.15~30	-64.01	PASS
Band7	20MHz	QPSK	21350	100RB#0	30~1000	-61.85	PASS
Band7	20MHz	QPSK	21350	100RB#0	1000~20000	-38.80	PASS
Band7	20MHz	QPSK	21350	100RB#0	20000~27000	-32.04	PASS
Band7	20MHz	16QAM	20850	100RB#0	0.009~0.15	-70.40	PASS
Band7	20MHz	16QAM	20850	100RB#0	0.15~30	-63.37	PASS
Band7	20MHz	16QAM	20850	100RB#0	30~1000	-61.81	PASS
Band7	20MHz	16QAM	20850	100RB#0	1000~20000	-38.12	PASS
Band7	20MHz	16QAM	20850	100RB#0	20000~27000	-31.96	PASS
Band7	20MHz	16QAM	21100	100RB#0	0.009~0.15	-67.97	PASS
Band7	20MHz	16QAM	21100	100RB#0	0.15~30	-64.25	PASS
Band7	20MHz	16QAM	21100	100RB#0	30~1000	-61.82	PASS
Band7	20MHz	16QAM	21100	100RB#0	1000~20000	-38.59	PASS
Band7	20MHz	16QAM	21100	100RB#0	20000~27000	-31.62	PASS
Band7	20MHz	16QAM	21350	100RB#0	0.009~0.15	-68.22	PASS
Band7	20MHz	16QAM	21350	100RB#0	0.15~30	-65.50	PASS
Band7	20MHz	16QAM	21350	100RB#0	30~1000	-61.95	PASS
Band7	20MHz	16QAM	21350	100RB#0	1000~20000	-38.28	PASS
Band7	20MHz	16QAM	21350	100RB#0	20000~27000	-32.10	PASS

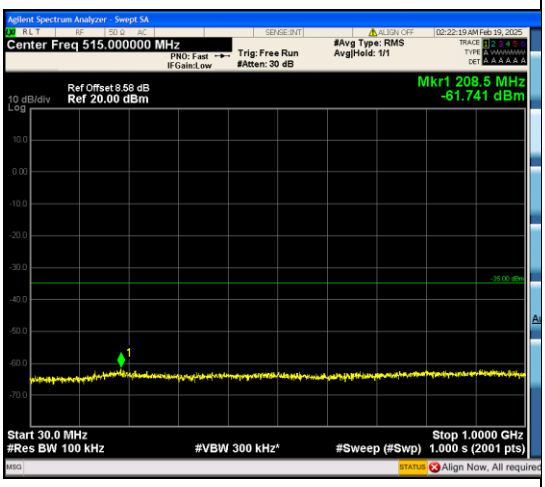
Test Graphs



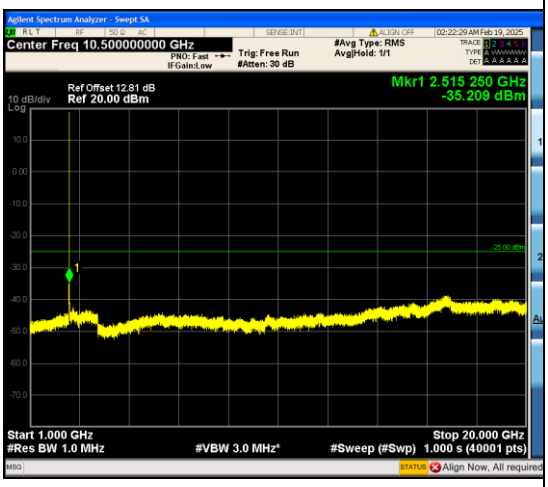
Band7_5MHz_QPSK_20775_25RB#0_0.009~0.15_0.009~0.15



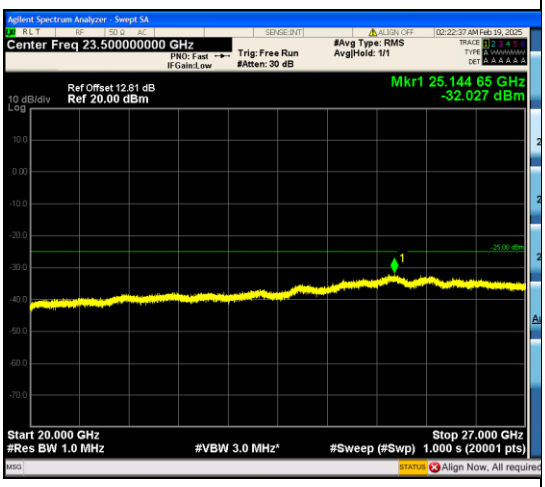
Band7_5MHz_QPSK_20775_25RB#0_0.15~30_0.15~30



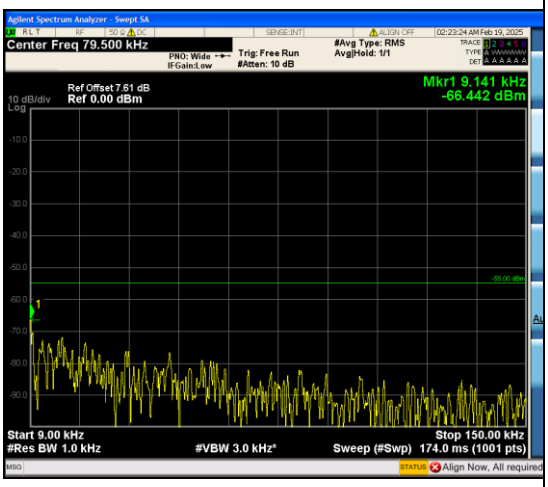
Band7_5MHz_QPSK_20775_25RB#0_30~1000_30~1000



Band7_5MHz_QPSK_20775_25RB#0_1000~20000_1000~20000



Band7_5MHz_QPSK_20775_25RB#0_20000~27000_20000~27000



Band7_5MHz_QPSK_21100_25RB#0_0.009~0.15_0.009~0.15