FCC LTE Band Test Data

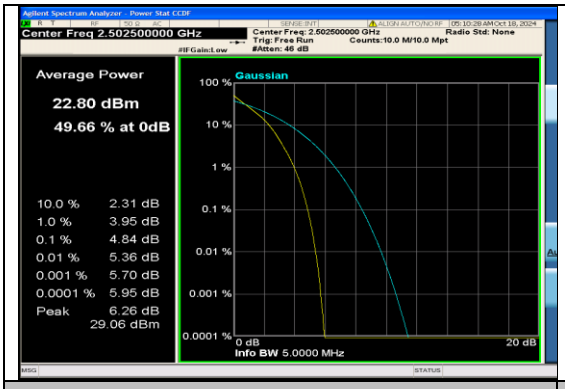
FCC ID	**:**	**2BDCL-M616A**
Company:	**:**	**Signalinks Communication Technology Co.,Ltd**
EUT	**:**	**4G LTE Mobile Wifi**
Model Number	**:**	**M616A**
Reviewed By	**:**	**Eric Wang**

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

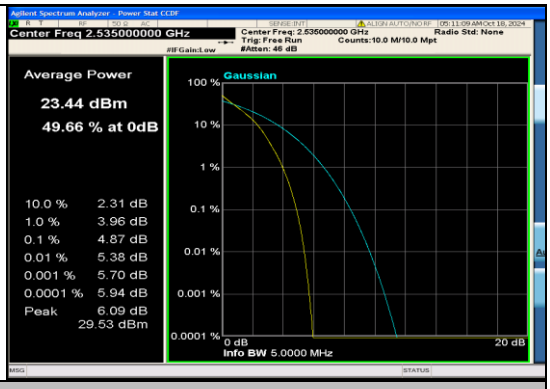
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.84	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.87	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.54	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.40	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.41	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.07	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	4.90	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	4.97	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	4.72	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	5.48	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	5.53	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	5.25	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.17	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.26	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.02	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	5.61	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	5.70	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	5.47	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.05	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.16	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.96	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.65	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.76	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.57	13	PASS

Test Graphs



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



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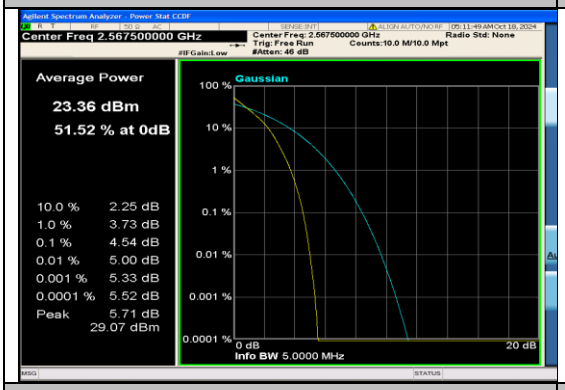

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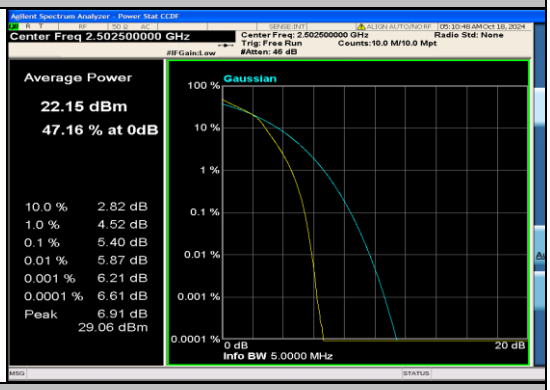

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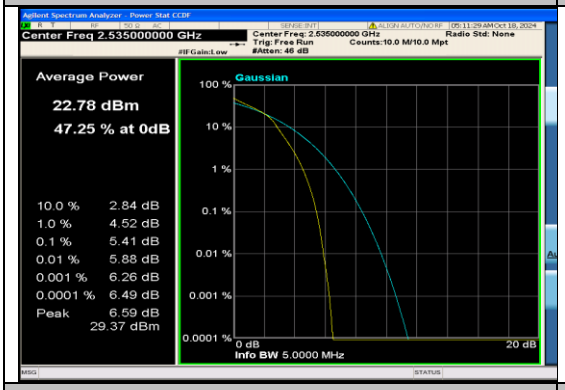

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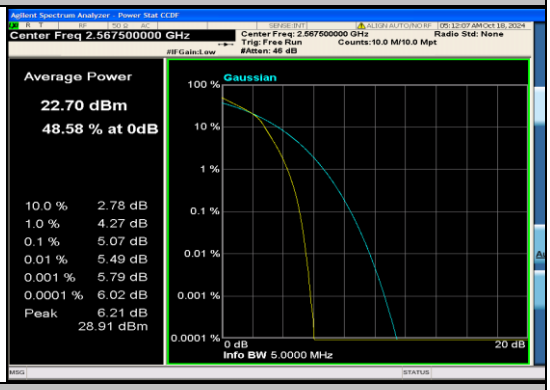

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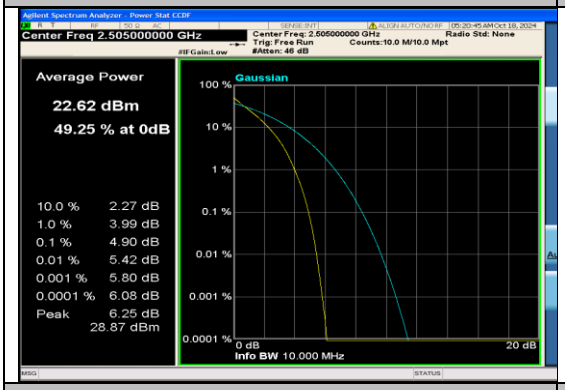

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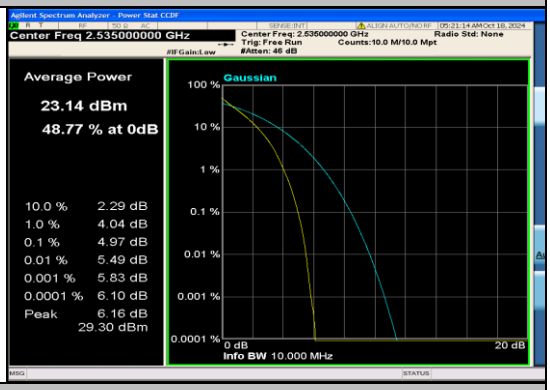

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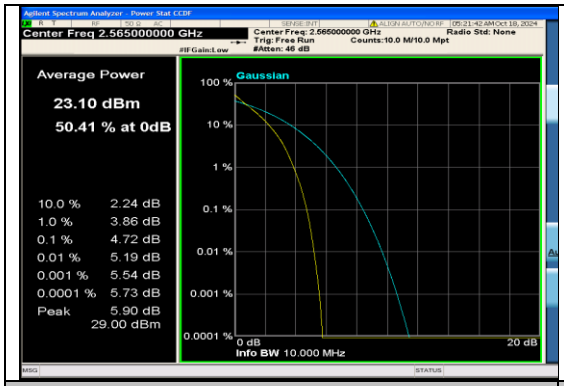

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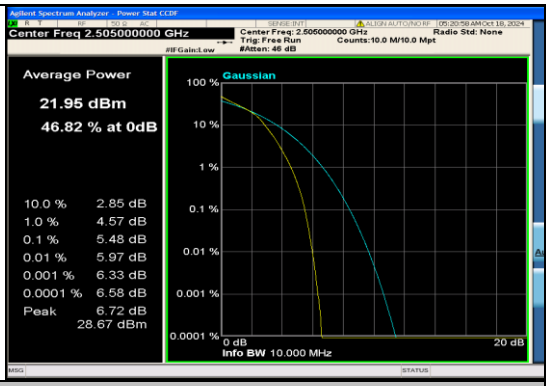

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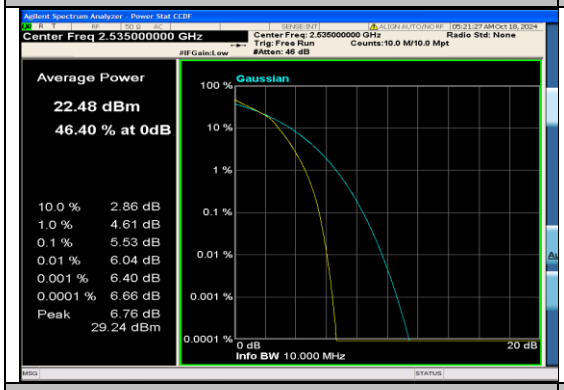

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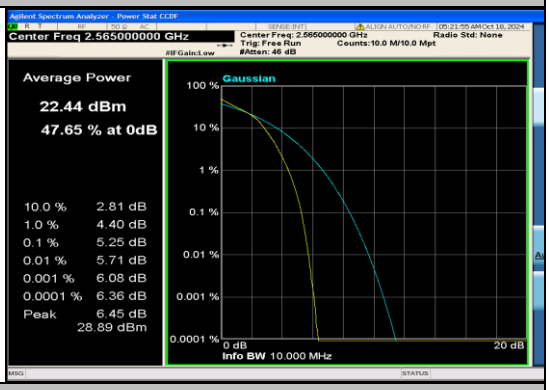

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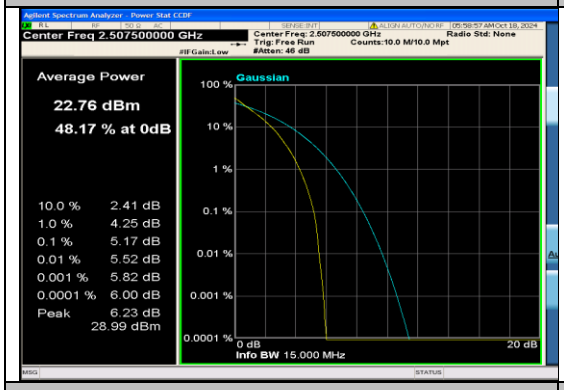
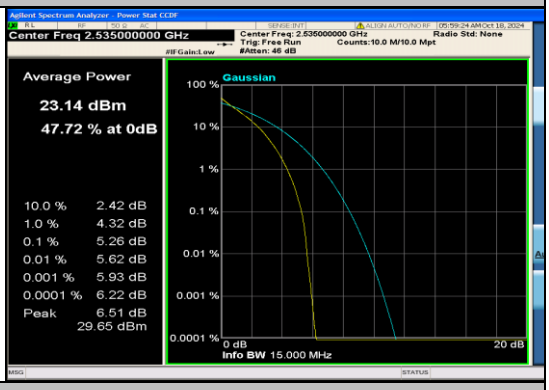
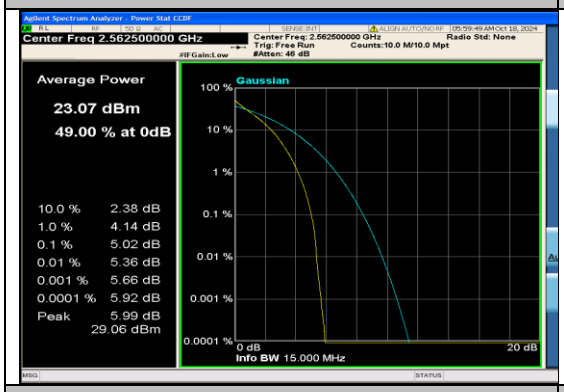


Band7-15MHz-QPSK-20825-75RB#0-PASS



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



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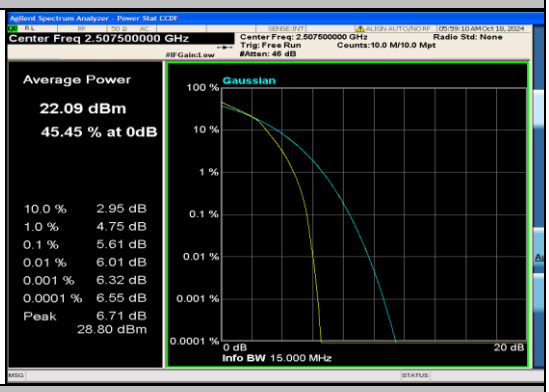

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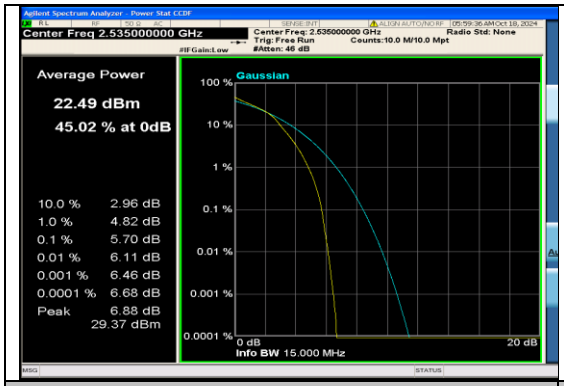

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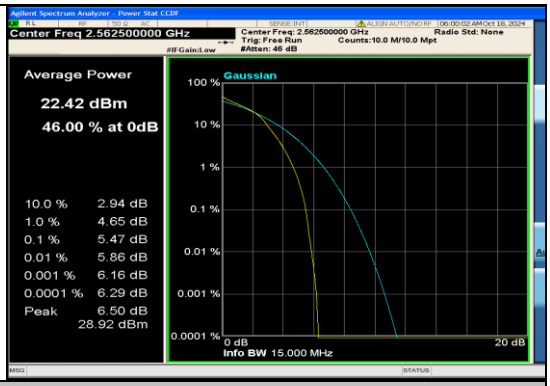

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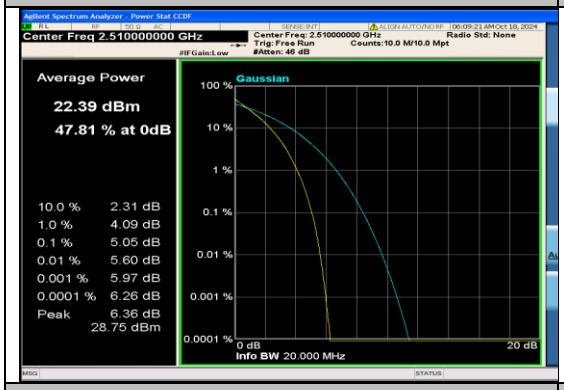
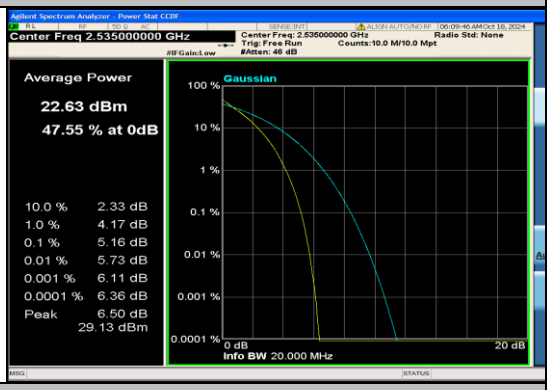


Band7-20MHz-QPSK-20850-100RB#0-PASS



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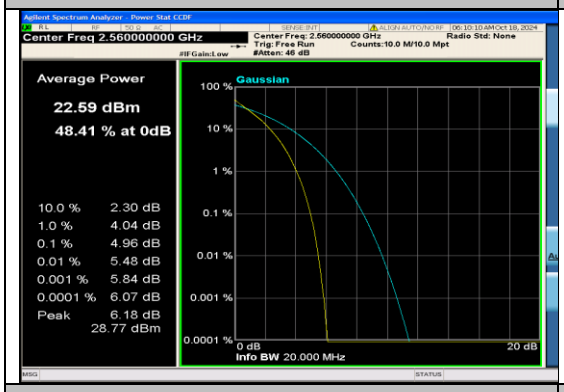

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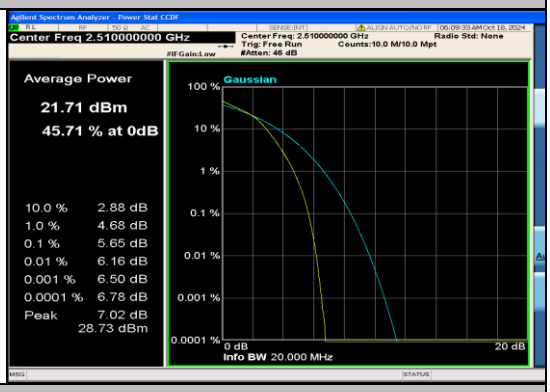

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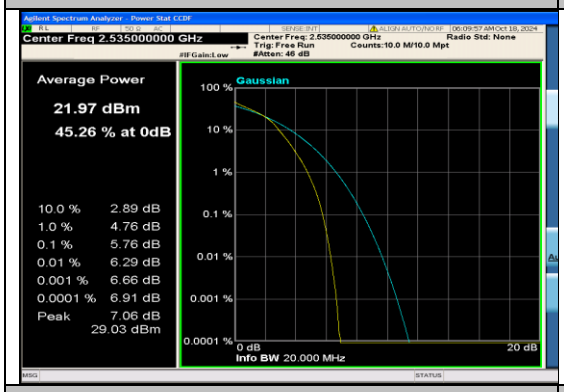

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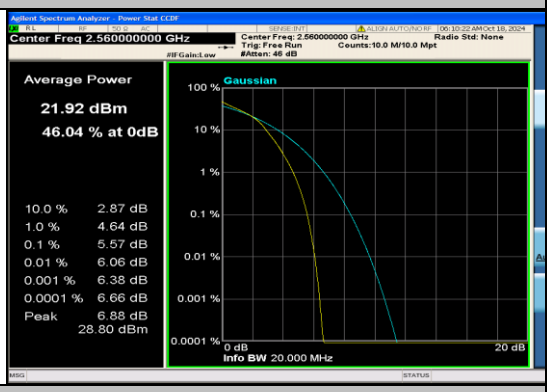


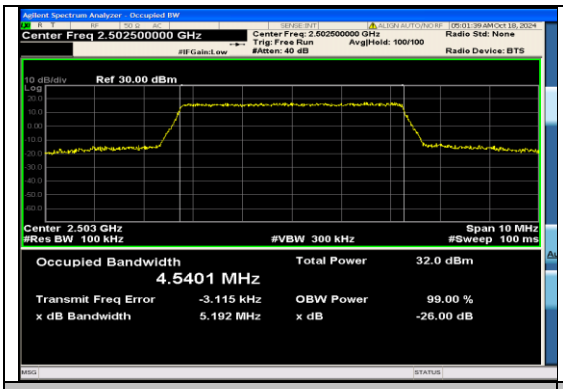
Band7-20MHz-16QAM-21350-100RB#0-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

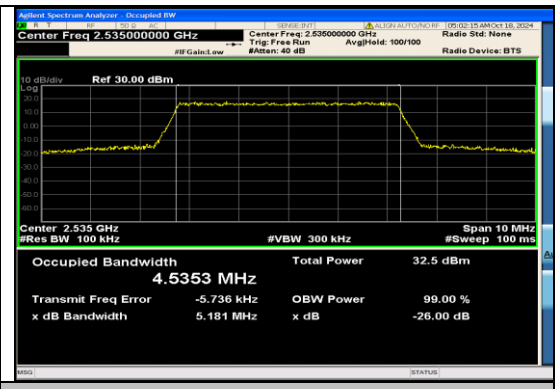
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5401	5.192	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5353	5.181	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5458	5.190	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5420	5.171	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5492	5.147	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5498	5.202	PASS
Band7	10MHz	QPSK	20800	50RB#0	9.0675	10.41	PASS
Band7	10MHz	QPSK	21100	50RB#0	9.0578	10.53	PASS
Band7	10MHz	QPSK	21400	50RB#0	9.0323	10.43	PASS
Band7	10MHz	16QAM	20800	50RB#0	9.0534	10.41	PASS
Band7	10MHz	16QAM	21100	50RB#0	9.0647	10.43	PASS
Band7	10MHz	16QAM	21400	50RB#0	9.0879	10.48	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.540	15.90	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.593	15.96	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.558	15.79	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.577	15.90	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.542	15.71	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.575	15.95	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.181	24.84	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.180	25.27	PASS
Band7	20MHz	QPSK	21350	100RB#0	18.202	25.09	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.150	25.24	PASS
Band7	20MHz	16QAM	21100	100RB#0	18.264	26.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	18.303	26.35	PASS

Test Graphs



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



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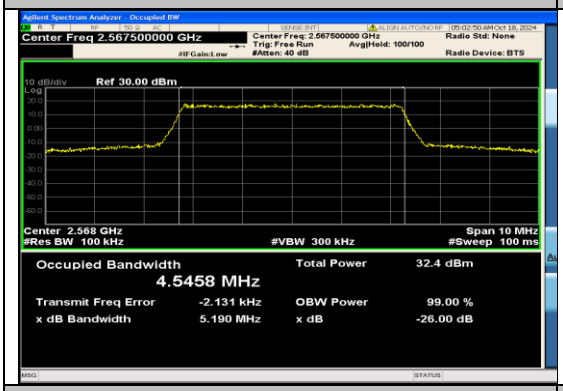

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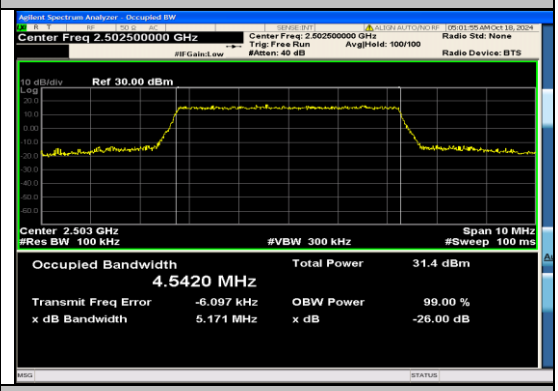

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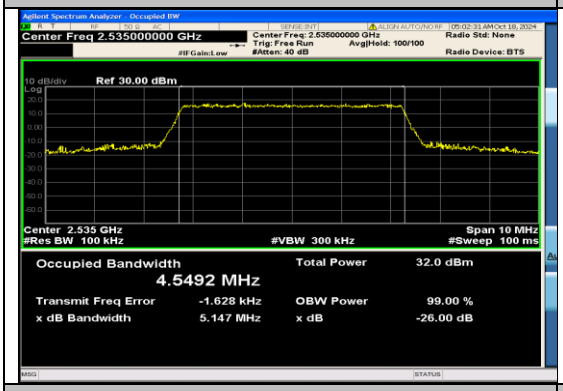

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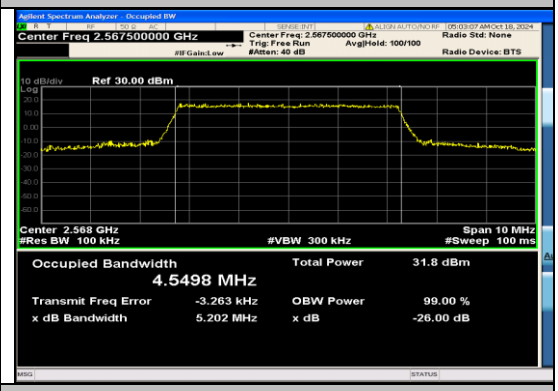

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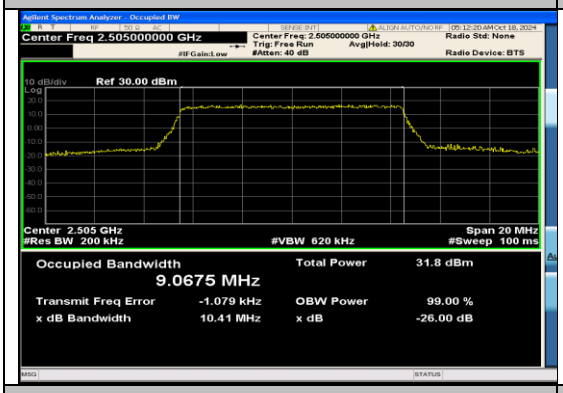
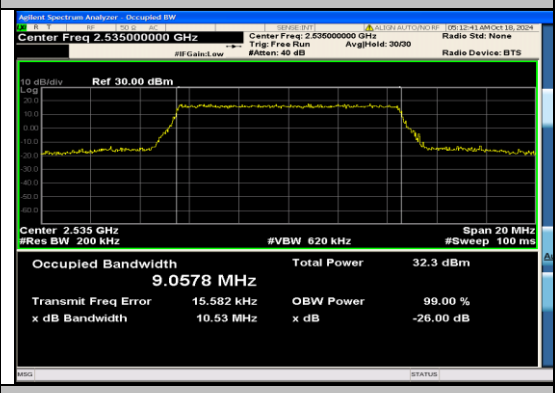


Band7-10MHz-QPSK-20800-50RB#0-PASS



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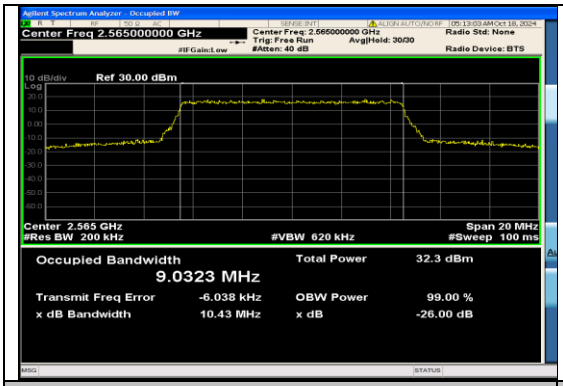
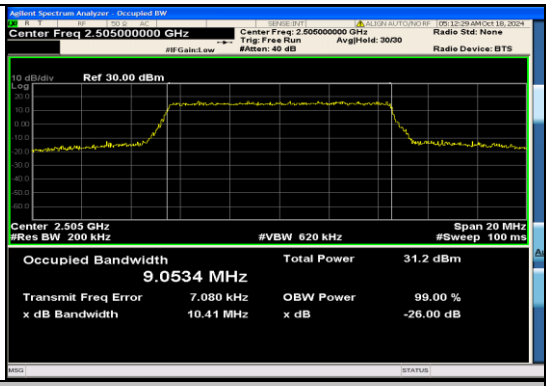


Band7-10MHz-QPSK-21400-50RB#0-PASS



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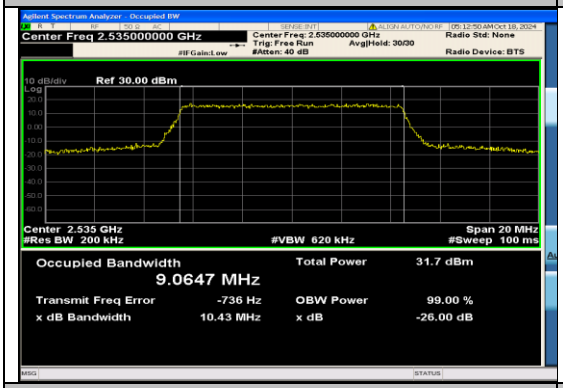

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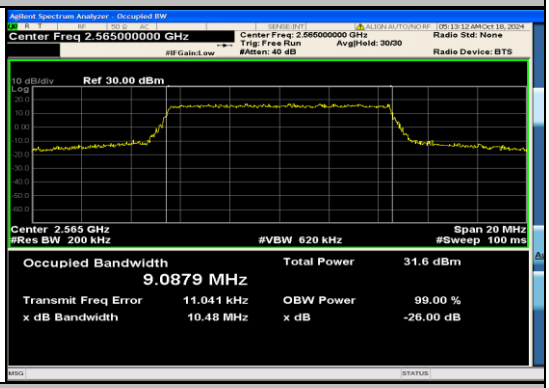

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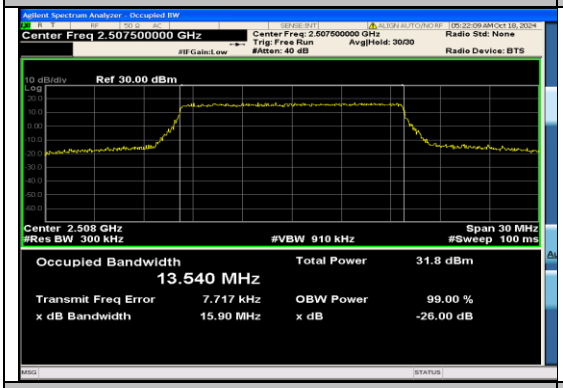
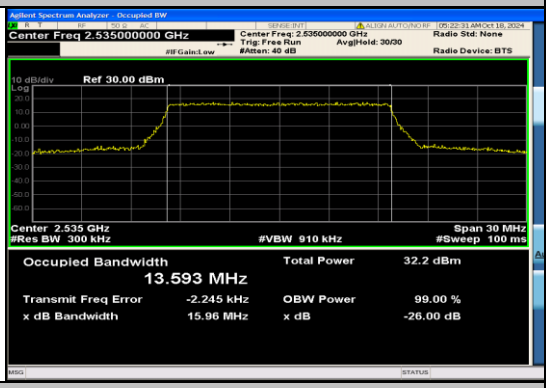
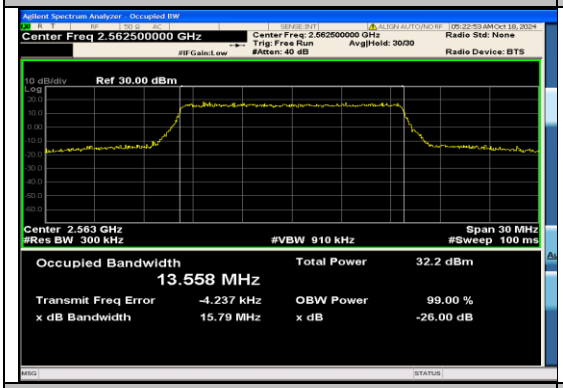


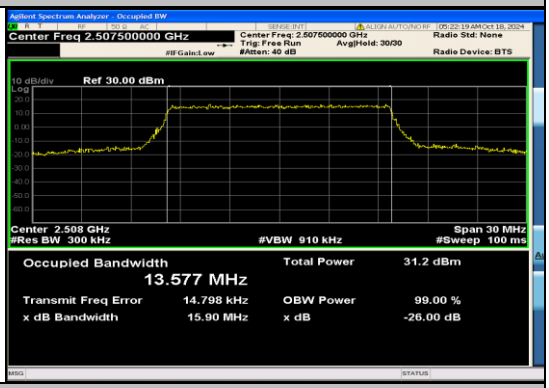
Band7-15MHz-QPSK-20825-75RB#0-PASS



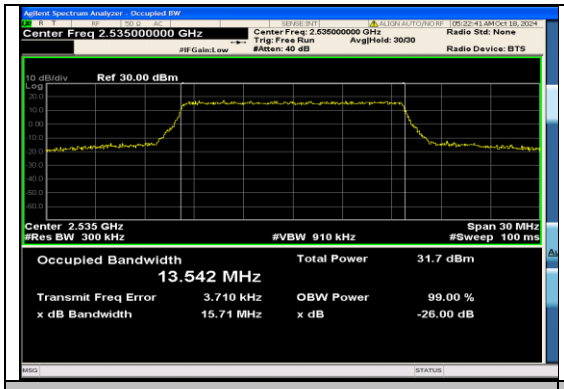
Band7-15MHz-QPSK-21100-75RB#0-PASS



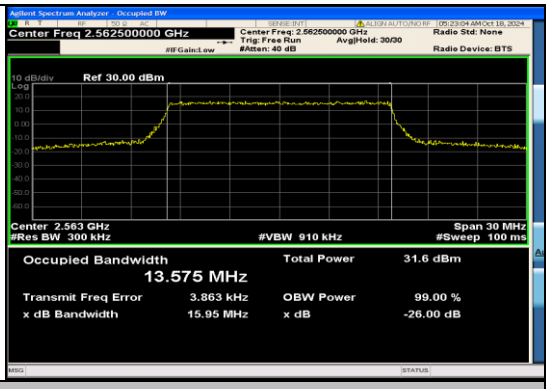
Band7-15MHz-QPSK-21375-75RB#0-PASS



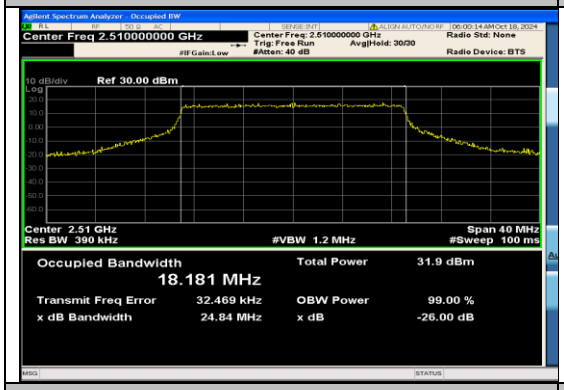
Band7-15MHz-16QAM-20825-75RB#0-PASS



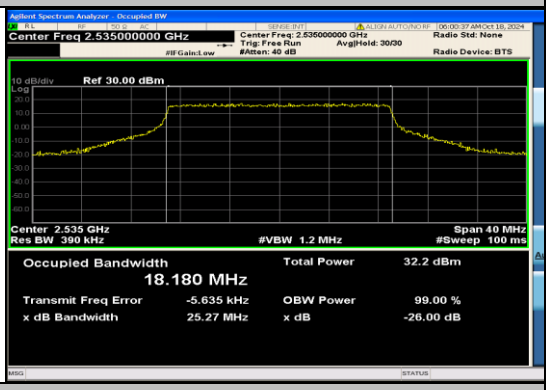
Band7-15MHz-16QAM-21100-75RB#0-PASS



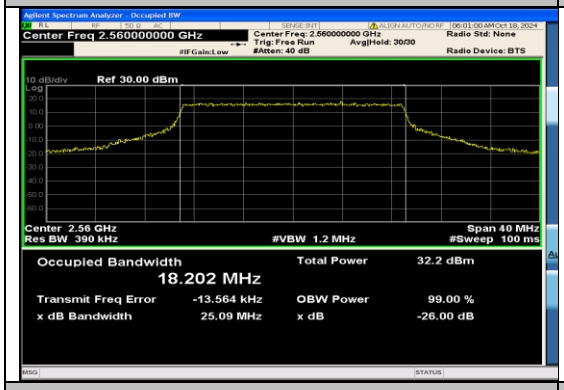
Band7-15MHz-16QAM-21375-75RB#0-PASS



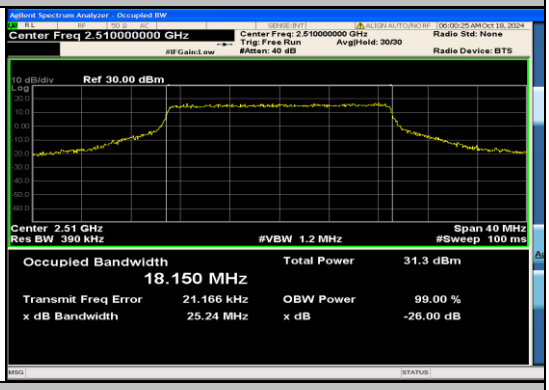
Band7-20MHz-QPSK-20850-100RB#0-PASS



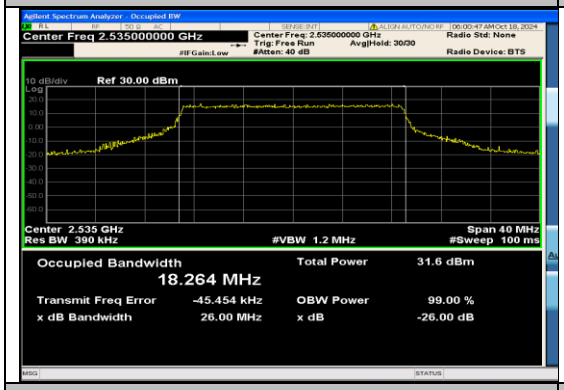
Band7-20MHz-QPSK-21100-100RB#0-PASS



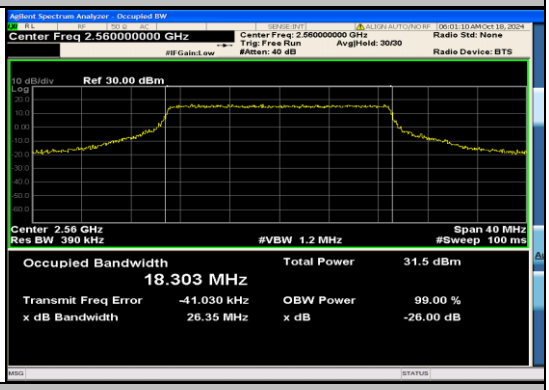
Band7-20MHz-QPSK-21350-100RB#0-PASS



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



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



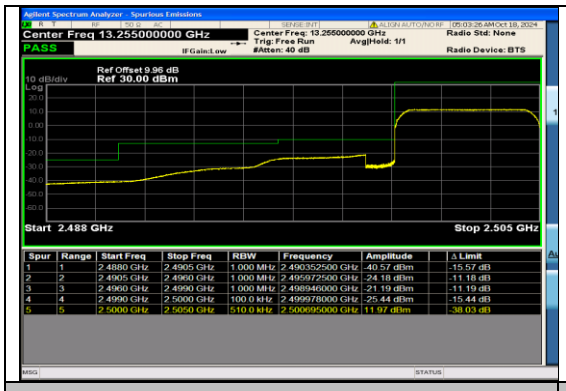
Band7-20MHz-16QAM-21350-100RB#0-PASS

Appendix D: Band Edge

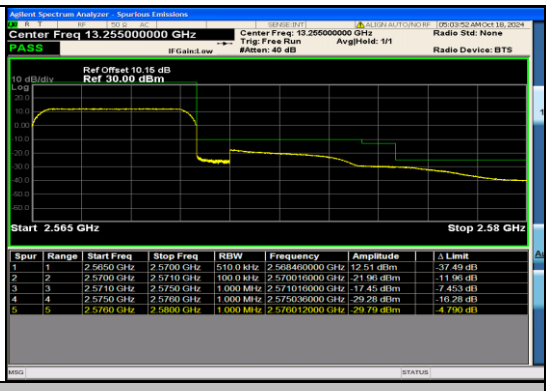
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	-24.18	PASS
Band7	5MHz	QPSK	21425	25RB#0	-29.79	PASS
Band7	5MHz	16QAM	20775	25RB#0	-21.15	PASS
Band7	5MHz	16QAM	21425	25RB#0	-30.04	PASS
Band7	10MHz	QPSK	20800	50RB#0	-34.61	PASS
Band7	10MHz	QPSK	21400	50RB#0	-33.61	PASS
Band7	10MHz	16QAM	20800	50RB#0	-33.47	PASS
Band7	10MHz	16QAM	21400	50RB#0	-31.95	PASS
Band7	15MHz	QPSK	20825	75RB#0	-36.94	PASS
Band7	15MHz	QPSK	21375	75RB#0	-23.32	PASS
Band7	15MHz	16QAM	20825	75RB#0	-35.85	PASS
Band7	15MHz	16QAM	21375	75RB#0	-34.51	PASS
Band7	20MHz	QPSK	20850	100RB#0	-28.39	PASS
Band7	20MHz	QPSK	21350	100RB#0	-26.39	PASS
Band7	20MHz	16QAM	20850	100RB#0	-40.33	PASS
Band7	20MHz	16QAM	21350	100RB#0	-26.74	PASS

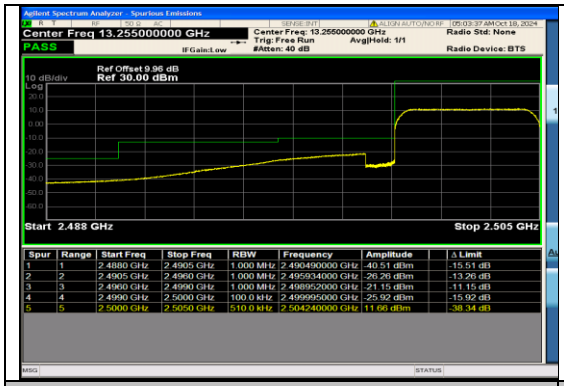
Test Graphs



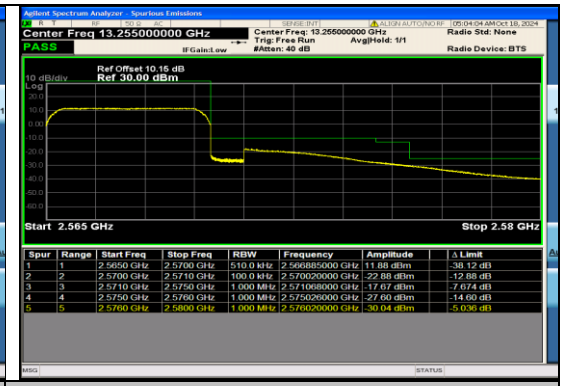
Band7_5MHz_QPSK_20775_25RB#0



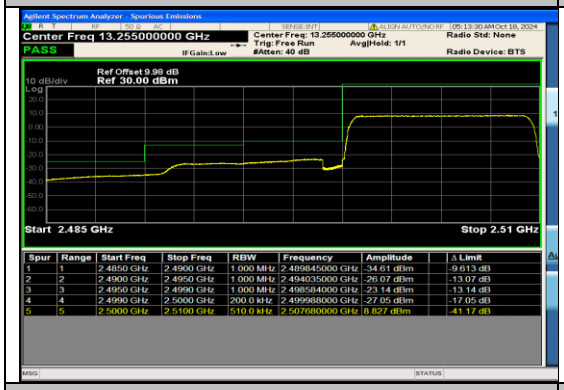
Band7_5MHz_QPSK_21425_25RB#0



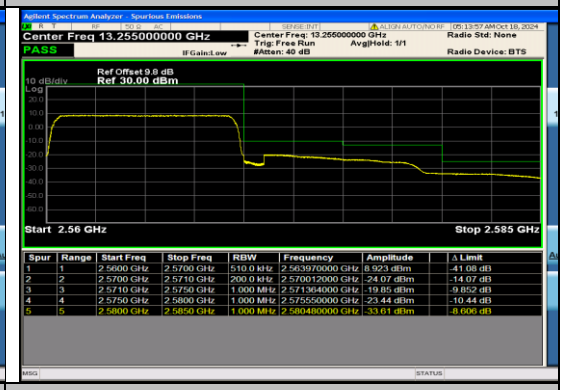
Band7_5MHz_16QAM_20775_25RB#0



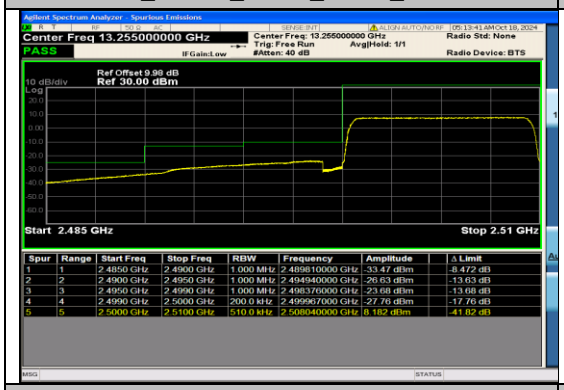
Band7_5MHz_16QAM_21425_25RB#0



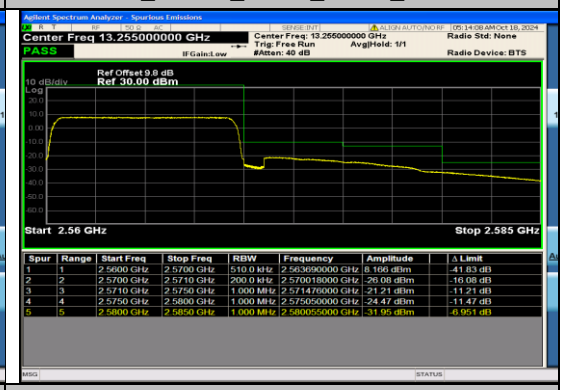
Band7_10MHz_QPSK_20800_50RB#0



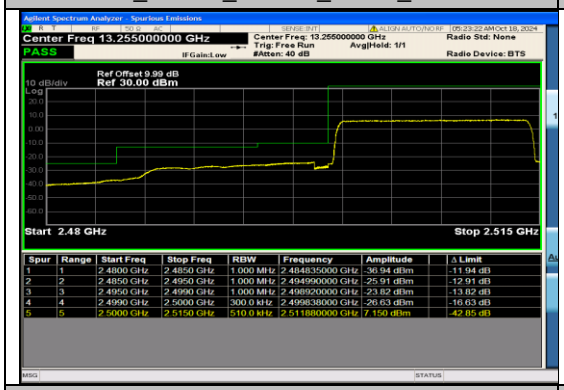
Band7_10MHz_QPSK_21400_50RB#0



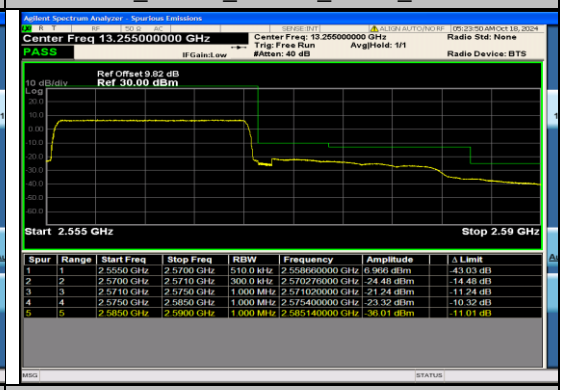
Band7_10MHz_16QAM_20800_50RB#0



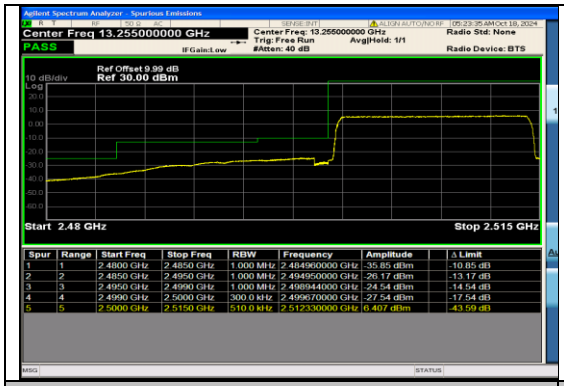
Band7_10MHz_16QAM_21400_50RB#0



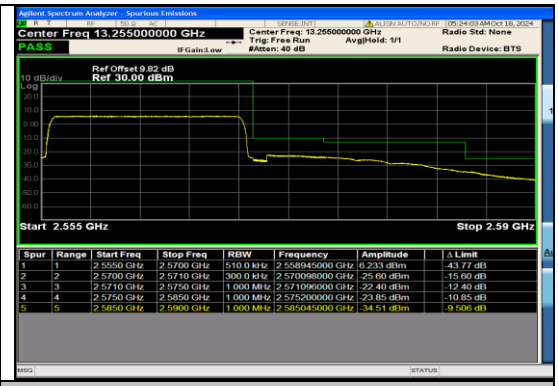
Band7_15MHz_QPSK_20825_75RB#0



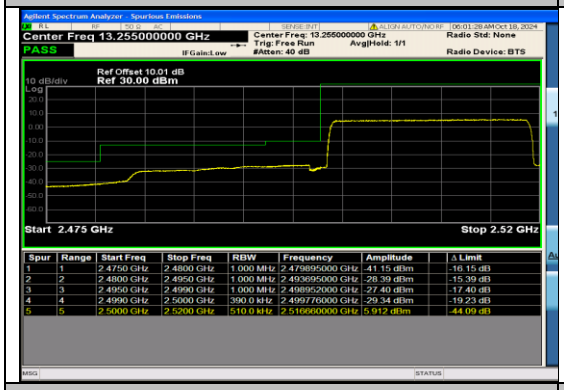
Band7_15MHz_QPSK_21375_75RB#0



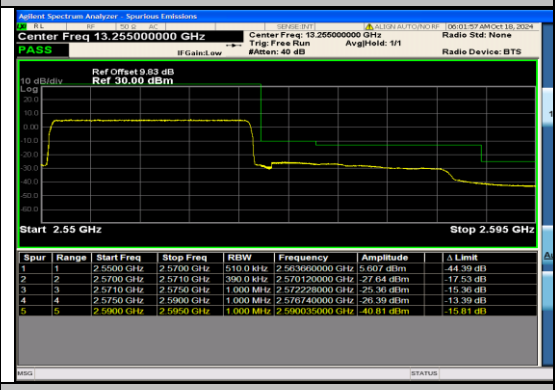
Band7_15MHz_16QAM_20825_75RB#0



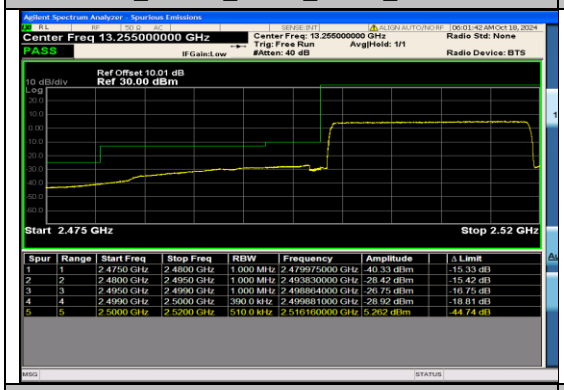
Band7_15MHz_16QAM_21375_75RB#0



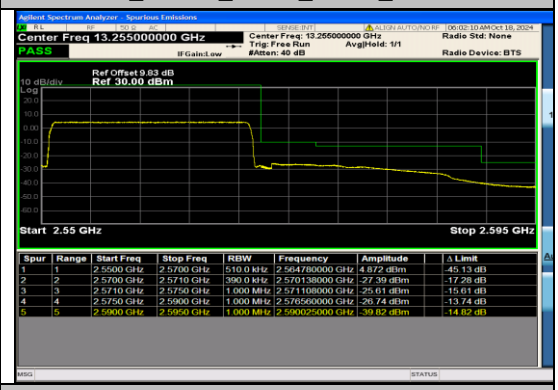
Band7_20MHz_QPSK_20850_100RB#0



Band7_20MHz_QPSK_21350_100RB#0



Band7_20MHz_16QAM_20850_100RB#0



Band7_20MHz_16QAM_21350_100RB#0

Appendix E: Conducted Spurious Emission

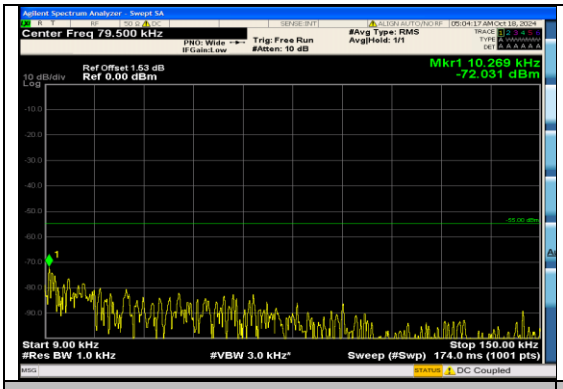
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	0.009~0.15	-72.03	PASS
Band7	5MHz	QPSK	20775	25RB#0	0.15~30	-63.37	PASS
Band7	5MHz	QPSK	20775	25RB#0	30~1000	-62.12	PASS
Band7	5MHz	QPSK	20775	25RB#0	1000~20000	-36.52	PASS
Band7	5MHz	QPSK	20775	25RB#0	20000~27000	-31.44	PASS
Band7	5MHz	QPSK	21100	25RB#0	0.009~0.15	-72.62	PASS
Band7	5MHz	QPSK	21100	25RB#0	0.15~30	-63.75	PASS
Band7	5MHz	QPSK	21100	25RB#0	30~1000	-62.02	PASS
Band7	5MHz	QPSK	21100	25RB#0	1000~20000	-34.92	PASS
Band7	5MHz	QPSK	21100	25RB#0	20000~27000	-31.27	PASS
Band7	5MHz	QPSK	21425	25RB#0	0.009~0.15	-72.59	PASS
Band7	5MHz	QPSK	21425	25RB#0	0.15~30	-64.89	PASS
Band7	5MHz	QPSK	21425	25RB#0	30~1000	-61.88	PASS
Band7	5MHz	QPSK	21425	25RB#0	1000~20000	-34.19	PASS
Band7	5MHz	QPSK	21425	25RB#0	20000~27000	-31.45	PASS
Band7	5MHz	16QAM	20775	25RB#0	0.009~0.15	-66.51	PASS
Band7	5MHz	16QAM	20775	25RB#0	0.15~30	-64.40	PASS
Band7	5MHz	16QAM	20775	25RB#0	30~1000	-62.19	PASS
Band7	5MHz	16QAM	20775	25RB#0	1000~20000	-35.93	PASS
Band7	5MHz	16QAM	20775	25RB#0	20000~27000	-31.64	PASS
Band7	5MHz	16QAM	21100	25RB#0	0.009~0.15	-70.13	PASS
Band7	5MHz	16QAM	21100	25RB#0	0.15~30	-65.20	PASS
Band7	5MHz	16QAM	21100	25RB#0	30~1000	-61.96	PASS
Band7	5MHz	16QAM	21100	25RB#0	1000~20000	-37.92	PASS
Band7	5MHz	16QAM	21100	25RB#0	20000~27000	-31.12	PASS
Band7	5MHz	16QAM	21425	25RB#0	0.009~0.15	-68.09	PASS
Band7	5MHz	16QAM	21425	25RB#0	0.15~30	-63.80	PASS
Band7	5MHz	16QAM	21425	25RB#0	30~1000	-62.14	PASS
Band7	5MHz	16QAM	21425	25RB#0	1000~20000	-35.48	PASS
Band7	5MHz	16QAM	21425	25RB#0	20000~27000	-31.39	PASS
Band7	10MHz	QPSK	20800	50RB#0	0.009~0.15	-73.06	PASS
Band7	10MHz	QPSK	20800	50RB#0	0.15~30	-64.79	PASS
Band7	10MHz	QPSK	20800	50RB#0	30~1000	-62.30	PASS
Band7	10MHz	QPSK	20800	50RB#0	1000~20000	-37.56	PASS
Band7	10MHz	QPSK	20800	50RB#0	20000~27000	-31.17	PASS
Band7	10MHz	QPSK	21100	50RB#0	0.009~0.15	-70.74	PASS

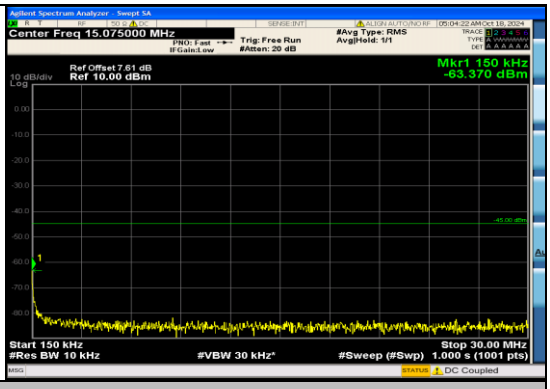
Band7	10MHz	QPSK	21100	50RB#0	0.15~30	-62.91	PASS
Band7	10MHz	QPSK	21100	50RB#0	30~1000	-61.91	PASS
Band7	10MHz	QPSK	21100	50RB#0	1000~20000	-36.99	PASS
Band7	10MHz	QPSK	21100	50RB#0	20000~27000	-31.14	PASS
Band7	10MHz	QPSK	21400	50RB#0	0.009~0.15	-69.83	PASS
Band7	10MHz	QPSK	21400	50RB#0	0.15~30	-64.05	PASS
Band7	10MHz	QPSK	21400	50RB#0	30~1000	-61.85	PASS
Band7	10MHz	QPSK	21400	50RB#0	1000~20000	-37.31	PASS
Band7	10MHz	QPSK	21400	50RB#0	20000~27000	-31.23	PASS
Band7	10MHz	16QAM	20800	50RB#0	0.009~0.15	-70.66	PASS
Band7	10MHz	16QAM	20800	50RB#0	0.15~30	-64.89	PASS
Band7	10MHz	16QAM	20800	50RB#0	30~1000	-61.94	PASS
Band7	10MHz	16QAM	20800	50RB#0	1000~20000	-37.42	PASS
Band7	10MHz	16QAM	20800	50RB#0	20000~27000	-30.81	PASS
Band7	10MHz	16QAM	21100	50RB#0	0.009~0.15	-71.09	PASS
Band7	10MHz	16QAM	21100	50RB#0	0.15~30	-62.44	PASS
Band7	10MHz	16QAM	21100	50RB#0	30~1000	-62.01	PASS
Band7	10MHz	16QAM	21100	50RB#0	1000~20000	-37.83	PASS
Band7	10MHz	16QAM	21100	50RB#0	20000~27000	-31.70	PASS
Band7	10MHz	16QAM	21400	50RB#0	0.009~0.15	-68.34	PASS
Band7	10MHz	16QAM	21400	50RB#0	0.15~30	-66.52	PASS
Band7	10MHz	16QAM	21400	50RB#0	30~1000	-61.78	PASS
Band7	10MHz	16QAM	21400	50RB#0	1000~20000	-37.13	PASS
Band7	10MHz	16QAM	21400	50RB#0	20000~27000	-31.56	PASS
Band7	15MHz	QPSK	20825	75RB#0	0.009~0.15	-72.09	PASS
Band7	15MHz	QPSK	20825	75RB#0	0.15~30	-63.35	PASS
Band7	15MHz	QPSK	20825	75RB#0	30~1000	-61.88	PASS
Band7	15MHz	QPSK	20825	75RB#0	1000~20000	-27.96	PASS
Band7	15MHz	QPSK	20825	75RB#0	20000~27000	-31.33	PASS
Band7	15MHz	QPSK	21100	75RB#0	0.009~0.15	-72.96	PASS
Band7	15MHz	QPSK	21100	75RB#0	0.15~30	-64.60	PASS
Band7	15MHz	QPSK	21100	75RB#0	30~1000	-61.97	PASS
Band7	15MHz	QPSK	21100	75RB#0	1000~20000	-37.88	PASS
Band7	15MHz	QPSK	21100	75RB#0	20000~27000	-31.51	PASS
Band7	15MHz	QPSK	21375	75RB#0	0.009~0.15	-67.88	PASS
Band7	15MHz	QPSK	21375	75RB#0	0.15~30	-63.30	PASS
Band7	15MHz	QPSK	21375	75RB#0	30~1000	-62.06	PASS
Band7	15MHz	QPSK	21375	75RB#0	1000~20000	-38.05	PASS
Band7	15MHz	QPSK	21375	75RB#0	20000~27000	-31.19	PASS
Band7	15MHz	16QAM	20825	75RB#0	0.009~0.15	-71.49	PASS
Band7	15MHz	16QAM	20825	75RB#0	0.15~30	-63.61	PASS
Band7	15MHz	16QAM	20825	75RB#0	30~1000	-61.93	PASS
Band7	15MHz	16QAM	20825	75RB#0	1000~20000	-37.92	PASS

Band7	15MHz	16QAM	20825	75RB#0	20000~27000	-31.37	PASS
Band7	15MHz	16QAM	21100	75RB#0	0.009~0.15	-69.87	PASS
Band7	15MHz	16QAM	21100	75RB#0	0.15~30	-63.98	PASS
Band7	15MHz	16QAM	21100	75RB#0	30~1000	-61.84	PASS
Band7	15MHz	16QAM	21100	75RB#0	1000~20000	-37.43	PASS
Band7	15MHz	16QAM	21100	75RB#0	20000~27000	-31.41	PASS
Band7	15MHz	16QAM	21375	75RB#0	0.009~0.15	-72.19	PASS
Band7	15MHz	16QAM	21375	75RB#0	0.15~30	-64.57	PASS
Band7	15MHz	16QAM	21375	75RB#0	30~1000	-61.98	PASS
Band7	15MHz	16QAM	21375	75RB#0	1000~20000	-38.13	PASS
Band7	15MHz	16QAM	21375	75RB#0	20000~27000	-31.51	PASS
Band7	20MHz	QPSK	20850	100RB#0	0.009~0.15	-73.50	PASS
Band7	20MHz	QPSK	20850	100RB#0	0.15~30	-62.65	PASS
Band7	20MHz	QPSK	20850	100RB#0	30~1000	-61.85	PASS
Band7	20MHz	QPSK	20850	100RB#0	1000~20000	-38.25	PASS
Band7	20MHz	QPSK	20850	100RB#0	20000~27000	-31.35	PASS
Band7	20MHz	QPSK	21100	100RB#0	0.009~0.15	-72.47	PASS
Band7	20MHz	QPSK	21100	100RB#0	0.15~30	-63.72	PASS
Band7	20MHz	QPSK	21100	100RB#0	30~1000	-61.68	PASS
Band7	20MHz	QPSK	21100	100RB#0	1000~20000	-28.51	PASS
Band7	20MHz	QPSK	21100	100RB#0	20000~27000	-31.34	PASS
Band7	20MHz	QPSK	21350	100RB#0	0.009~0.15	-70.89	PASS
Band7	20MHz	QPSK	21350	100RB#0	0.15~30	-63.60	PASS
Band7	20MHz	QPSK	21350	100RB#0	30~1000	-61.81	PASS
Band7	20MHz	QPSK	21350	100RB#0	1000~20000	-38.21	PASS
Band7	20MHz	QPSK	21350	100RB#0	20000~27000	-31.44	PASS
Band7	20MHz	16QAM	20850	100RB#0	0.009~0.15	-70.13	PASS
Band7	20MHz	16QAM	20850	100RB#0	0.15~30	-61.98	PASS
Band7	20MHz	16QAM	20850	100RB#0	30~1000	-61.37	PASS
Band7	20MHz	16QAM	20850	100RB#0	1000~20000	-38.28	PASS
Band7	20MHz	16QAM	20850	100RB#0	20000~27000	-31.51	PASS
Band7	20MHz	16QAM	21100	100RB#0	0.009~0.15	-71.36	PASS
Band7	20MHz	16QAM	21100	100RB#0	0.15~30	-63.81	PASS
Band7	20MHz	16QAM	21100	100RB#0	30~1000	-61.98	PASS
Band7	20MHz	16QAM	21100	100RB#0	1000~20000	-37.93	PASS
Band7	20MHz	16QAM	21100	100RB#0	20000~27000	-31.36	PASS
Band7	20MHz	16QAM	21350	100RB#0	0.009~0.15	-67.61	PASS
Band7	20MHz	16QAM	21350	100RB#0	0.15~30	-62.44	PASS
Band7	20MHz	16QAM	21350	100RB#0	30~1000	-62.04	PASS
Band7	20MHz	16QAM	21350	100RB#0	1000~20000	-37.86	PASS
Band7	20MHz	16QAM	21350	100RB#0	20000~27000	-31.43	PASS

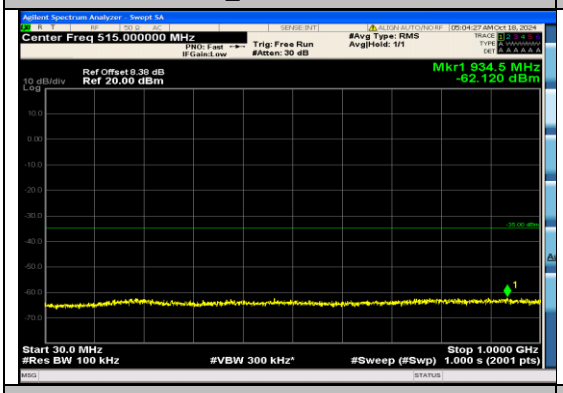
Test Graphs



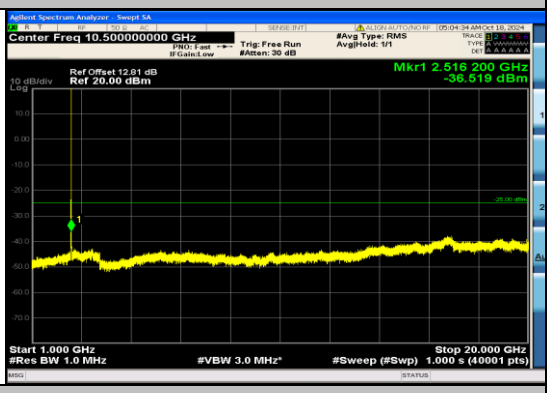
Band7_5MHz_QPSK_20775_25RB#0_0.009~0.15_0.009~0.15



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



Band7_5MHz_QPSK_20775_25RB#0_30~1000_30~1000



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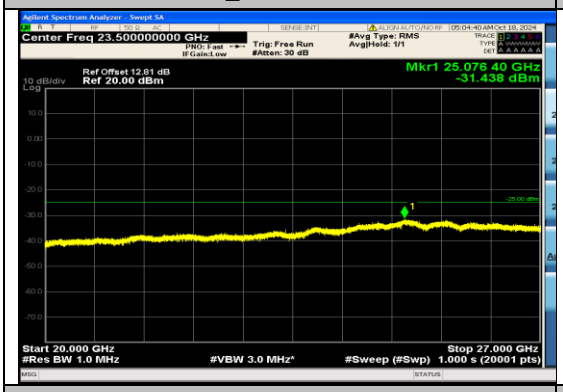

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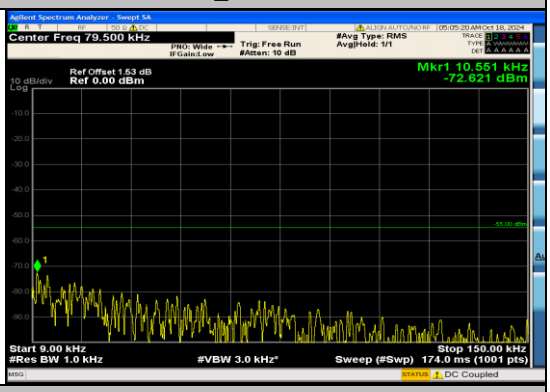
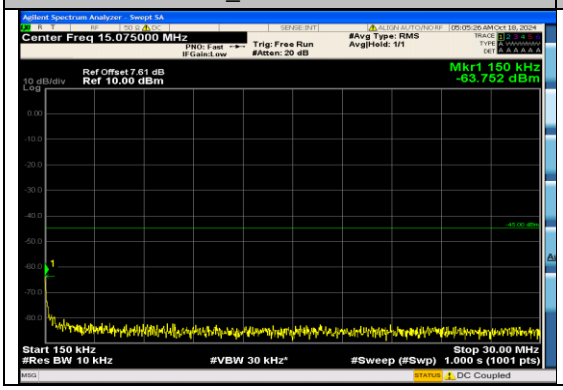
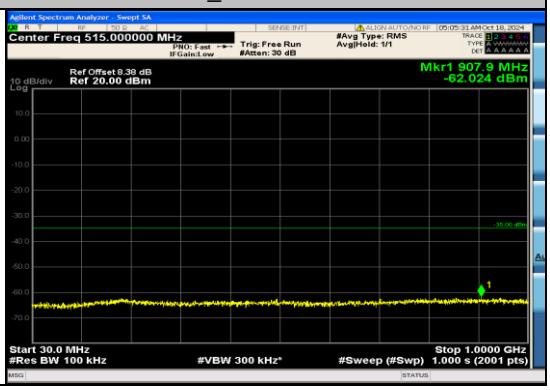


Band7_5MHz_QPSK_21100_25RB#0_0.009~0.15_0.009~0.15





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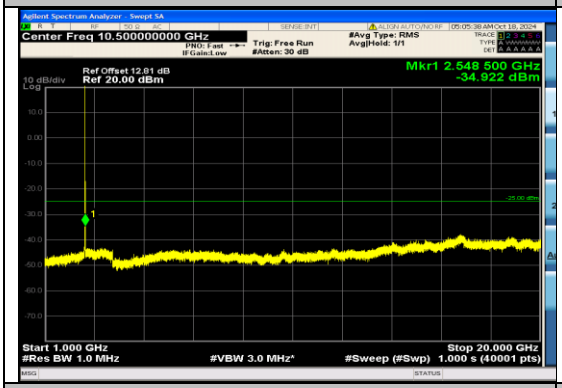

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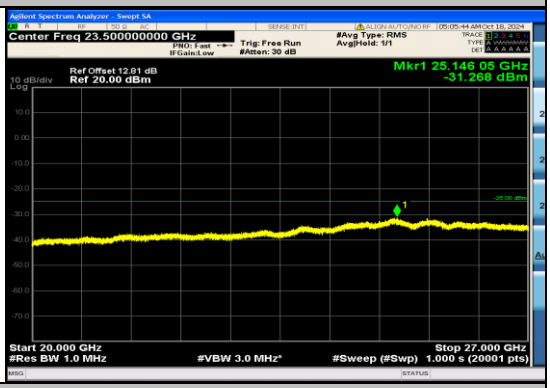

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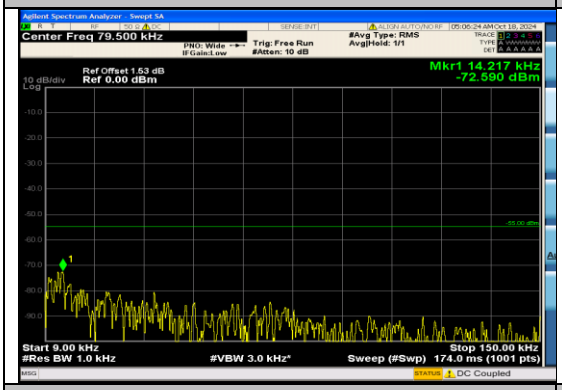

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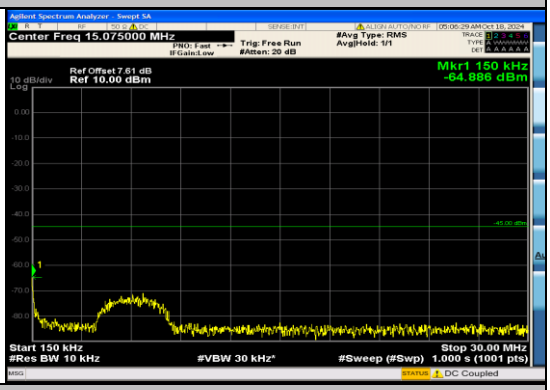
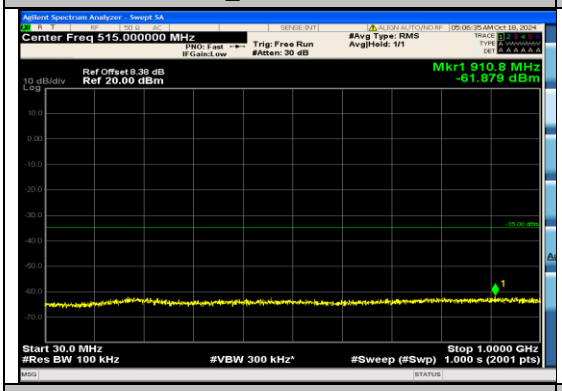
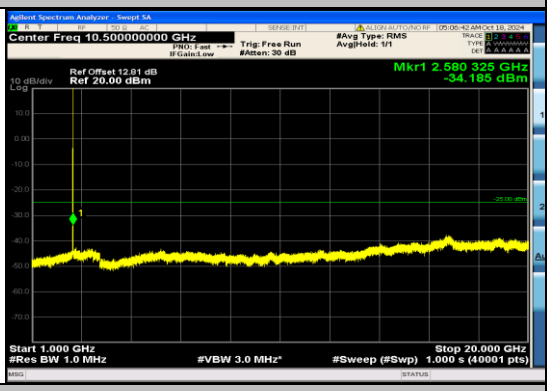


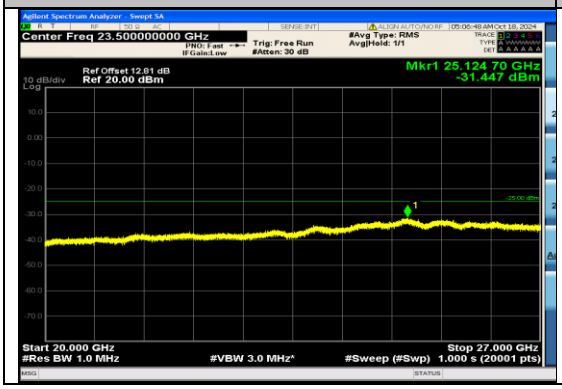
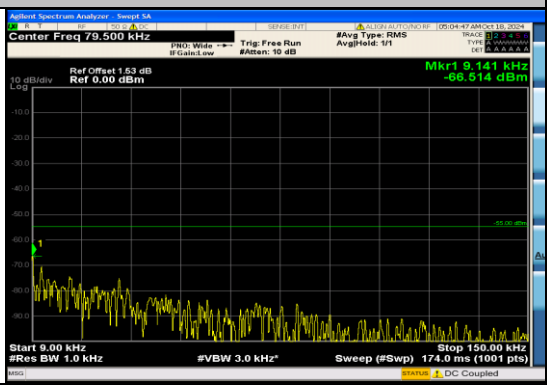
Band7_5MHz_QPSK_21425_25RB#0_0.009~0.15_0.009~0.15



Band7_5MHz_QPSK_21425_25RB#0_0.15~30_0.15~30



Band7_5MHz_QPSK_21425_25RB#0_30~1000_30~1000



Band7_5MHz_QPSK_21425_25RB#0_1000~20000_1000~20000