FCC LTE Band Test Data

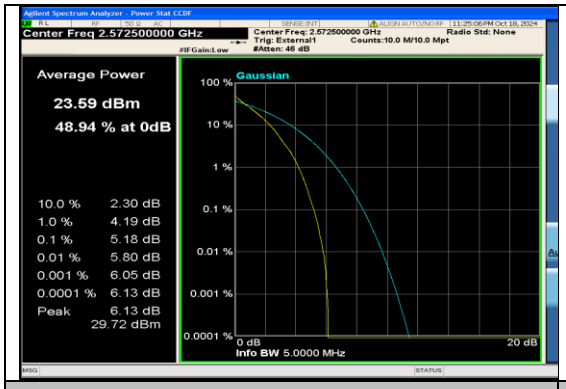
FCC ID	**:**	**2BDCL-M616A**
Company:	**:**	**Signalinks Communication Technology Co.,Ltd**
EUT	**:**	**4G LTE Mobile Wifi**
Model Number	**:**	**M616A**
Reviewed By	**:**	**Eric Wang**

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

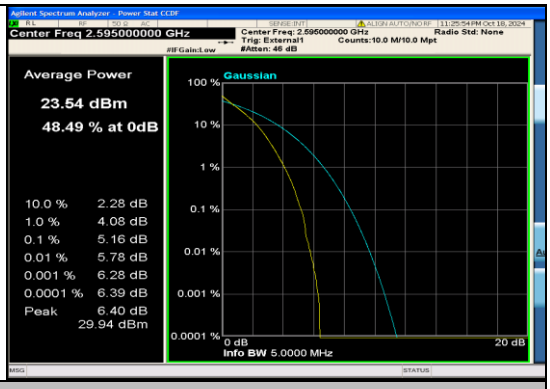
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	5.18	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	5.16	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	5.17	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	5.76	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	5.76	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	5.81	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	5.32	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	5.33	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	5.24	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	5.96	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	5.76	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	5.73	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	5.55	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	5.56	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	5.55	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	5.95	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	5.95	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	5.99	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	5.37	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	5.33	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	5.33	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	5.95	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	5.89	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	5.90	13	PASS

Test Graphs



Band38-5MHz-QPSK-37775-25RB#0-PASS



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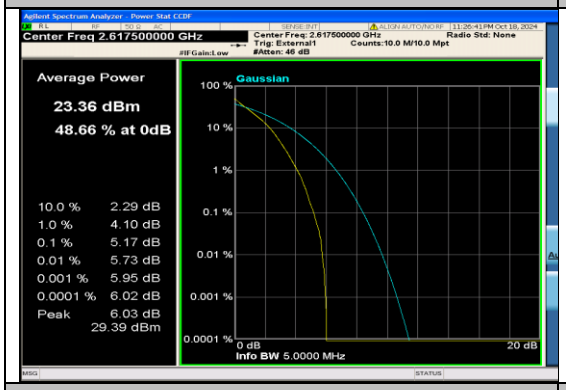
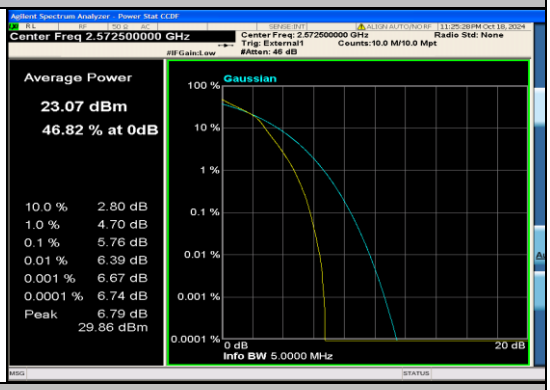


Band38-5MHz-QPSK-38225-25RB#0-PASS



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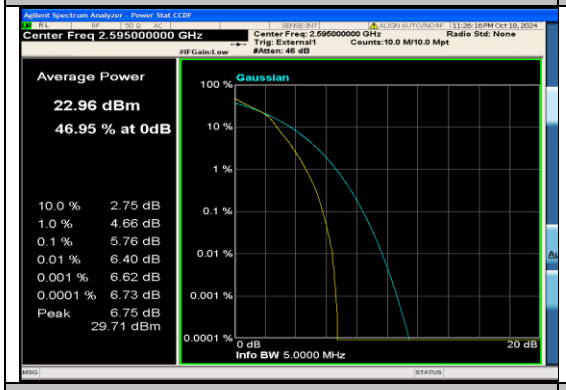

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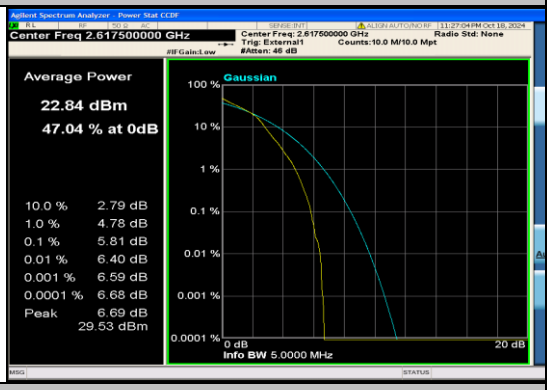

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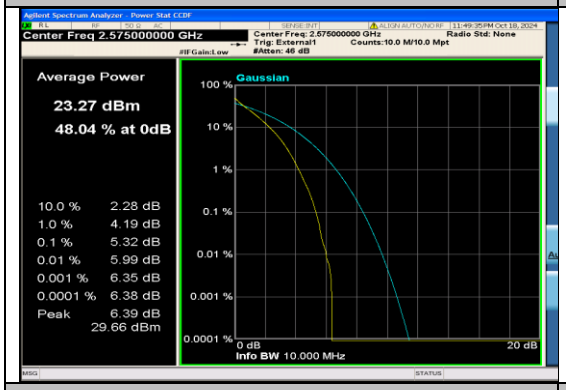
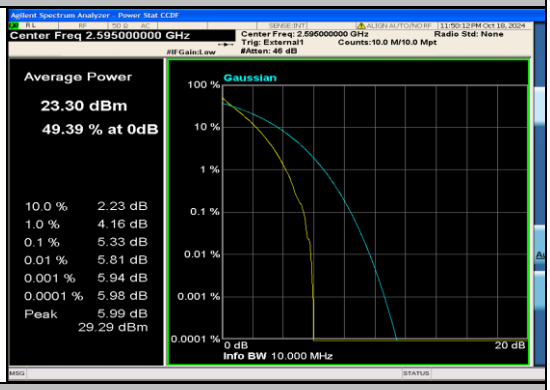


Band38-10MHz-QPSK-37800-50RB#0-PASS



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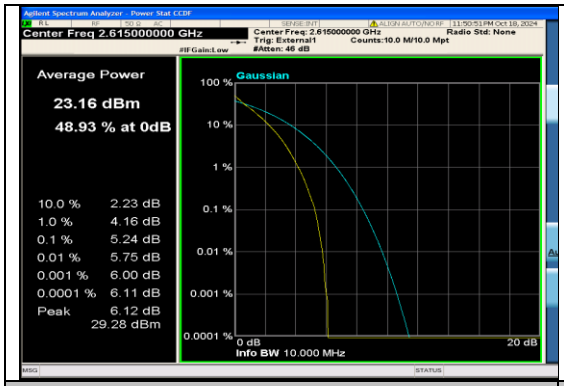

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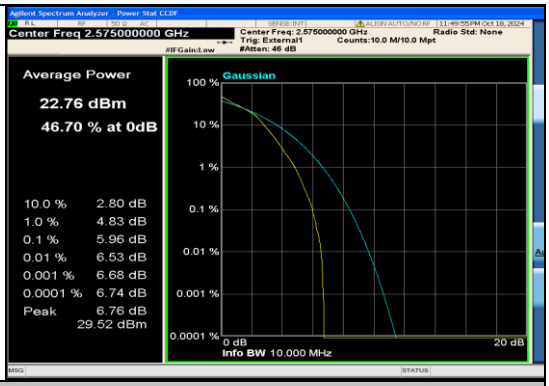

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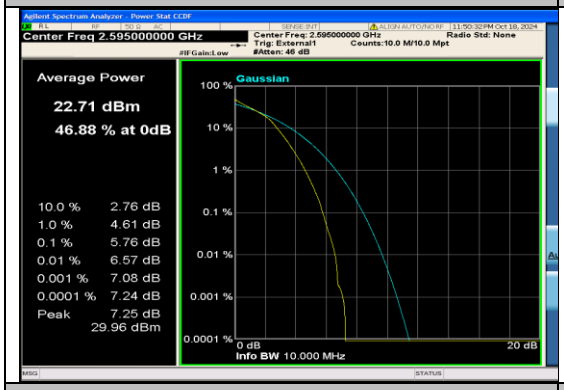

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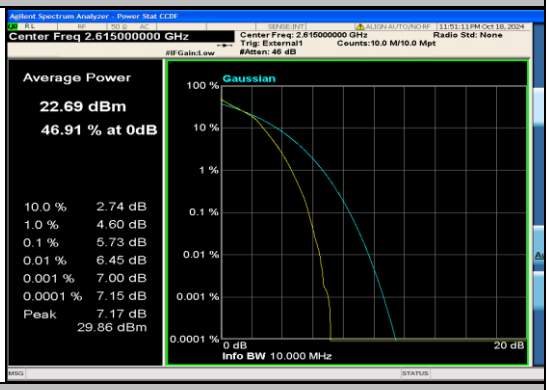

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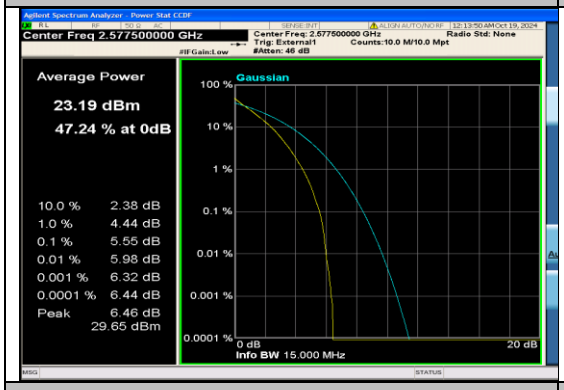
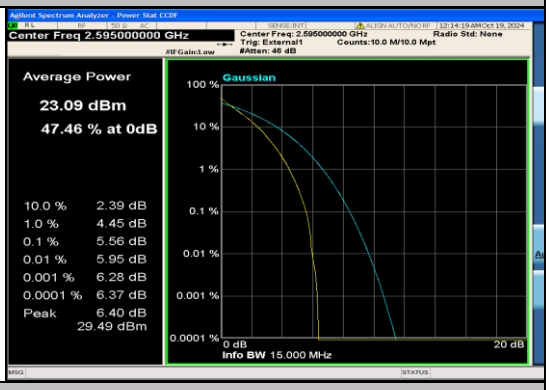
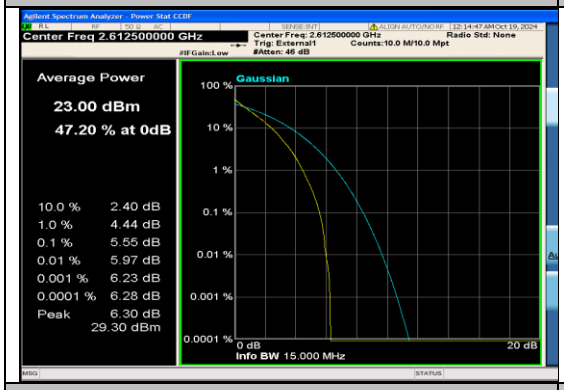


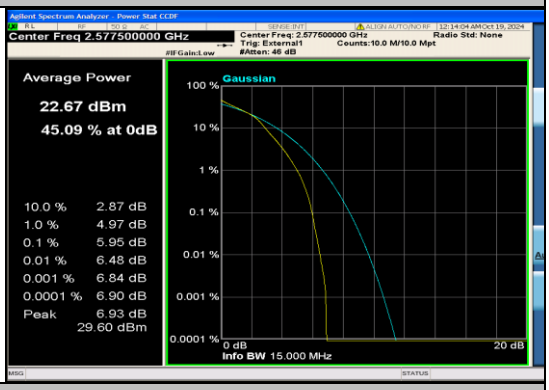
Band38-15MHz-QPSK-37825-75RB#0-PASS



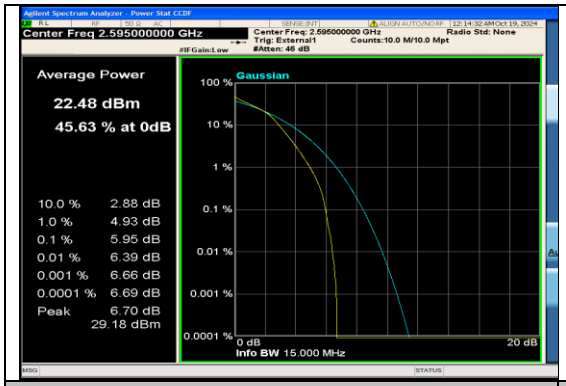
Band38-15MHz-QPSK-38000-75RB#0-PASS



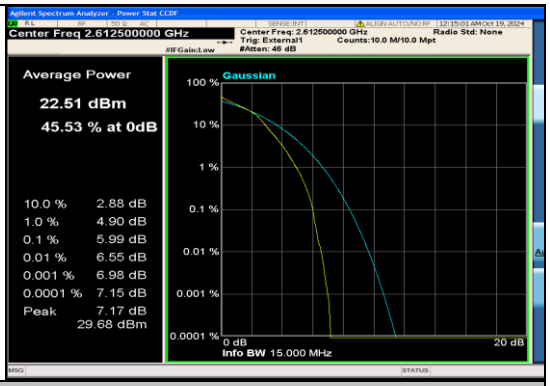
Band38-15MHz-QPSK-38175-75RB#0-PASS



Band38-15MHz-16QAM-37825-75RB#0-PASS



Band38-15MHz-16QAM-38000-75RB#0-PASS



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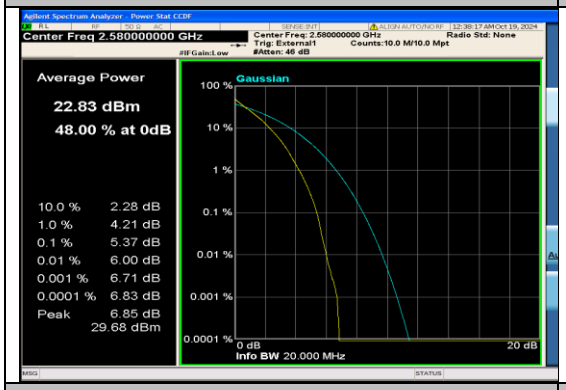
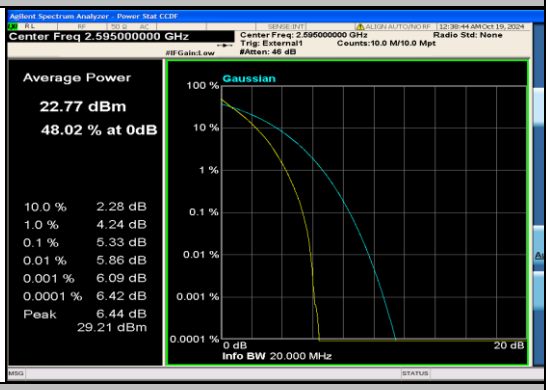
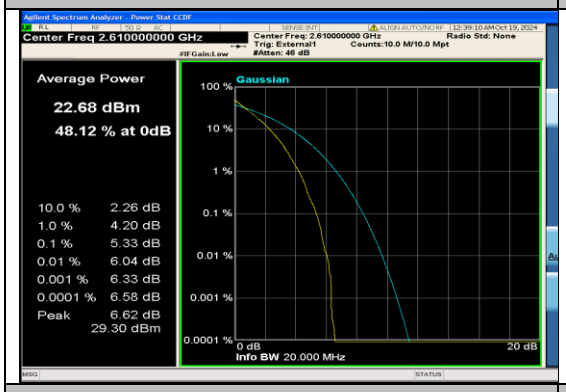


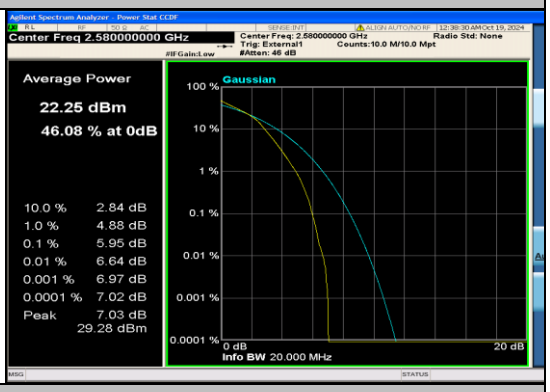
Band38-20MHz-QPSK-37850-100RB#0-PASS



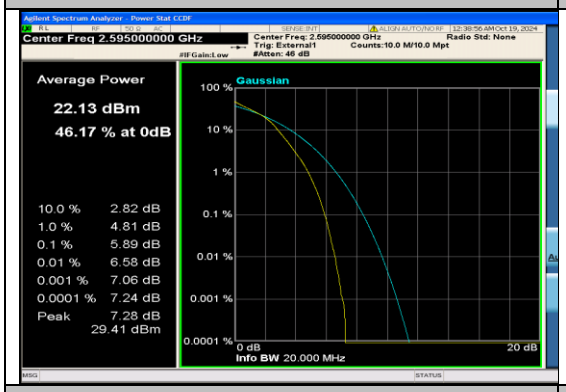
Band38-20MHz-QPSK-38000-100RB#0-PASS



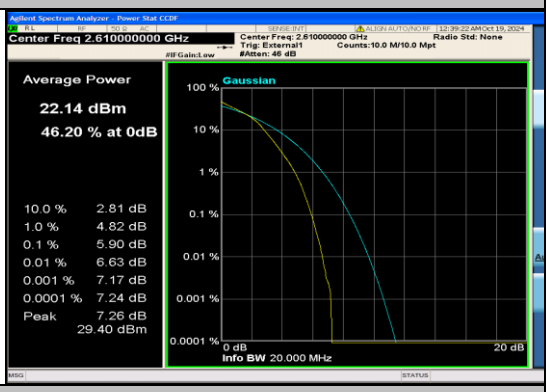
Band38-20MHz-QPSK-38150-100RB#0-PASS



Band38-20MHz-16QAM-37850-100RB#0-PASS



Band38-20MHz-16QAM-38000-100RB#0-PASS



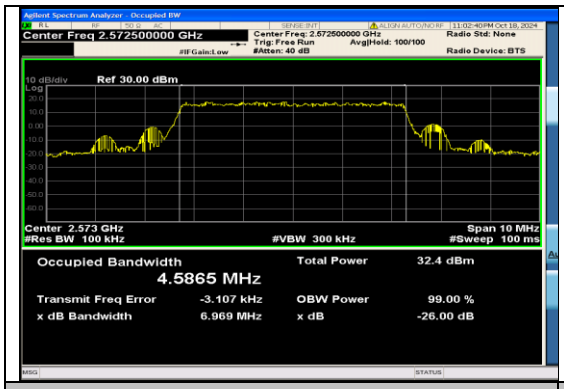
Band38-20MHz-16QAM-38150-100RB#0-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

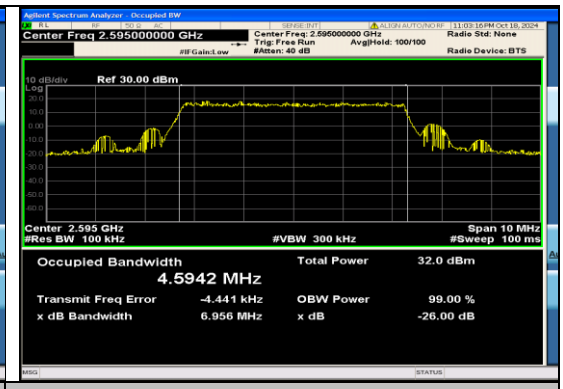
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.5865	6.969	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.5942	6.956	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.6071	7.007	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.5998	7.800	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5768	6.925	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.5942	7.820	PASS
Band38	10MHz	QPSK	37800	50RB#0	9.1312	15.68	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.0559	12.17	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.0760	15.35	PASS
Band38	10MHz	16QAM	37800	50RB#0	9.0543	12.04	PASS
Band38	10MHz	16QAM	38000	50RB#0	9.0892	11.89	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.0888	12.15	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.551	15.63	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.545	15.91	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.549	15.91	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.524	15.89	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.546	15.78	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.541	15.70	PASS
Band38	20MHz	QPSK	37850	100RB#0	18.158	25.40	PASS
Band38	20MHz	QPSK	38000	100RB#0	18.164	25.07	PASS
Band38	20MHz	QPSK	38150	100RB#0	18.172	25.89	PASS
Band38	20MHz	16QAM	37850	100RB#0	18.130	25.50	PASS
Band38	20MHz	16QAM	38000	100RB#0	18.155	25.23	PASS
Band38	20MHz	16QAM	38150	100RB#0	18.153	25.75	PASS

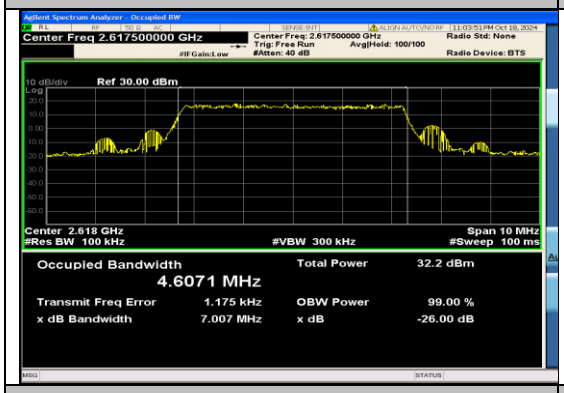
Test Graphs



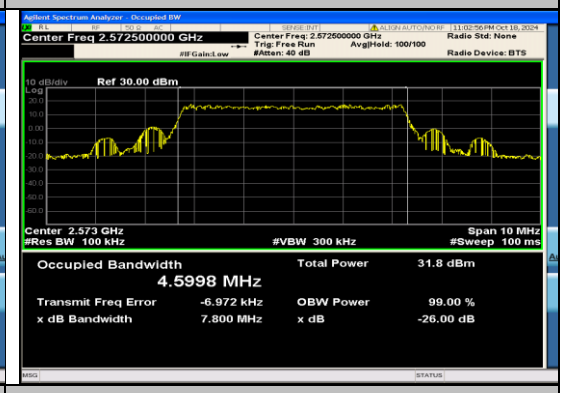
Band38-5MHz-QPSK-37775-25RB#0-PASS



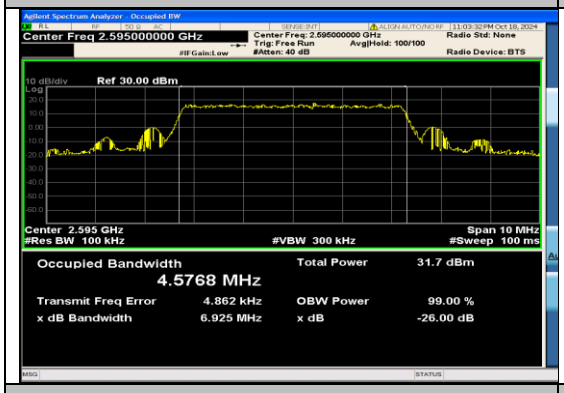
Band38-5MHz-QPSK-38000-25RB#0-PASS



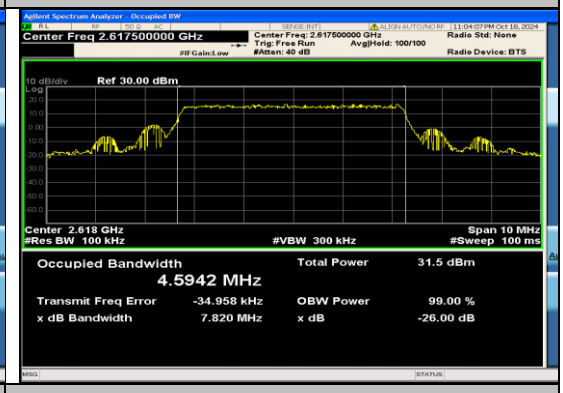
Band38-5MHz-QPSK-38225-25RB#0-PASS



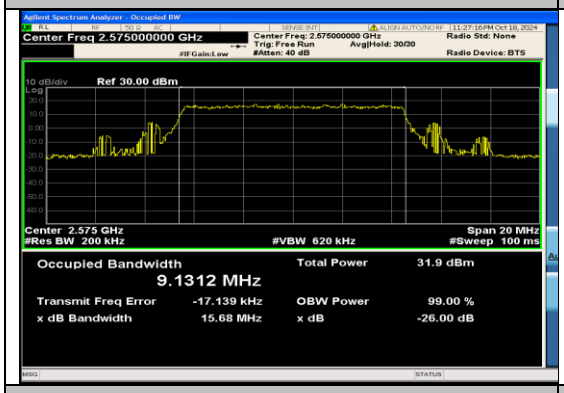
Band38-5MHz-16QAM-37775-25RB#0-PASS



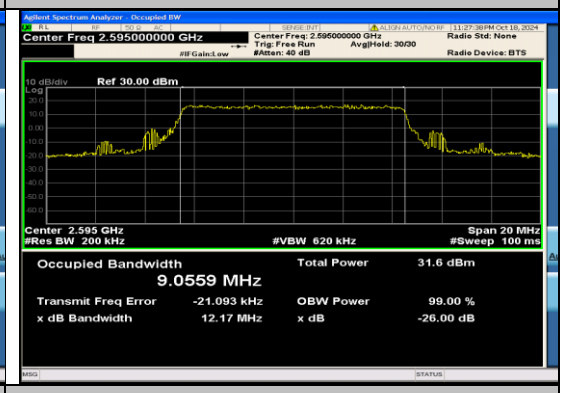
Band38-5MHz-16QAM-38000-25RB#0-PASS



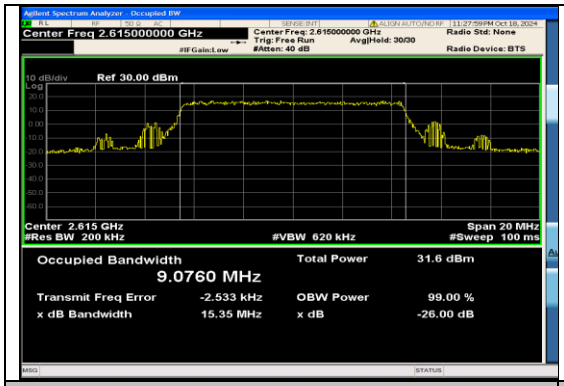
Band38-5MHz-16QAM-38225-25RB#0-PASS



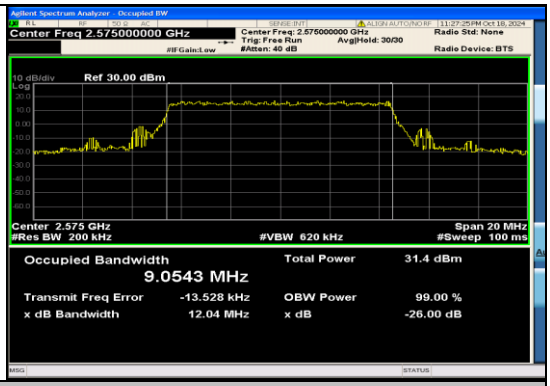
Band38-10MHz-QPSK-37800-50RB#0-PASS



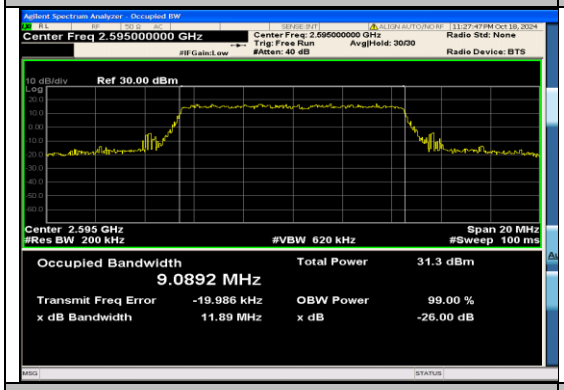
Band38-10MHz-QPSK-38000-50RB#0-PASS



Band38-10MHz-QPSK-38200-50RB#0-PASS



Band38-10MHz-16QAM-37800-50RB#0-PASS



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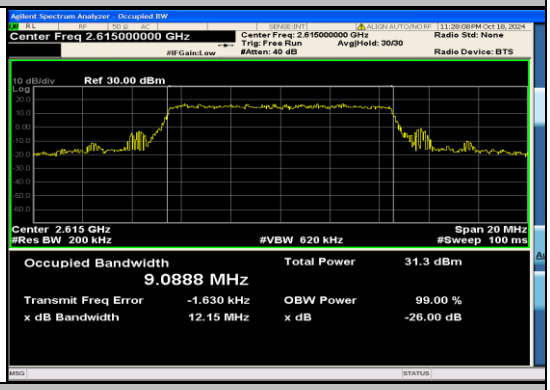
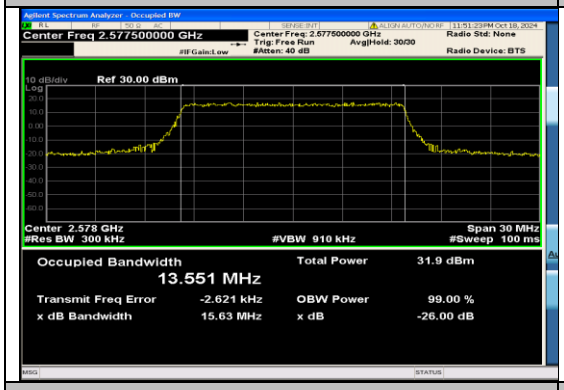
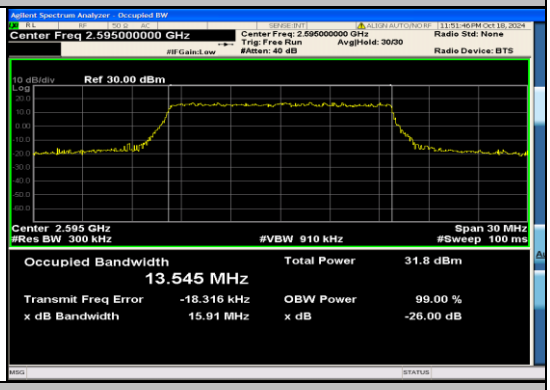


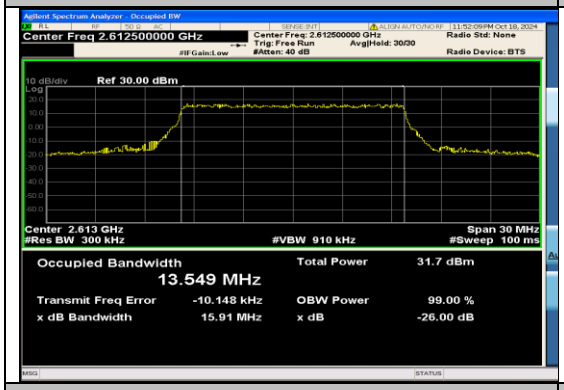
Band38-10MHz-16QAM-38200-50RB#0-PASS



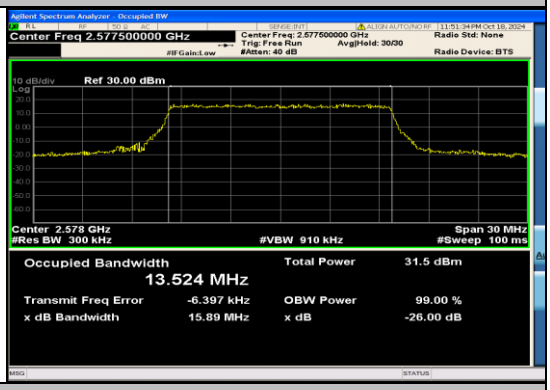
Band38-15MHz-QPSK-37825-75RB#0-PASS



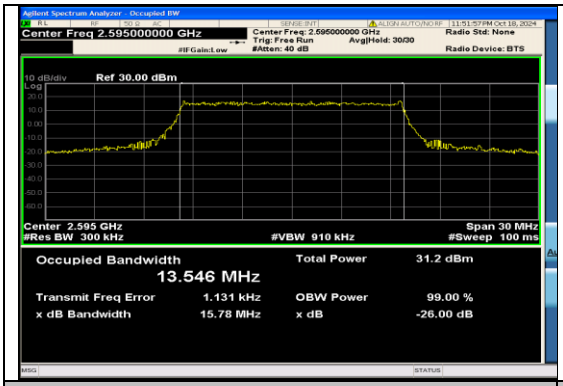
Band38-15MHz-QPSK-38000-75RB#0-PASS



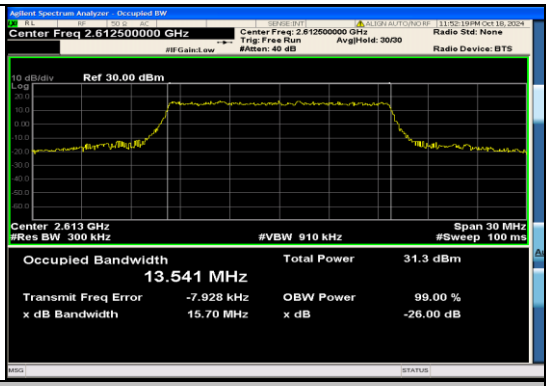
Band38-15MHz-QPSK-38175-75RB#0-PASS



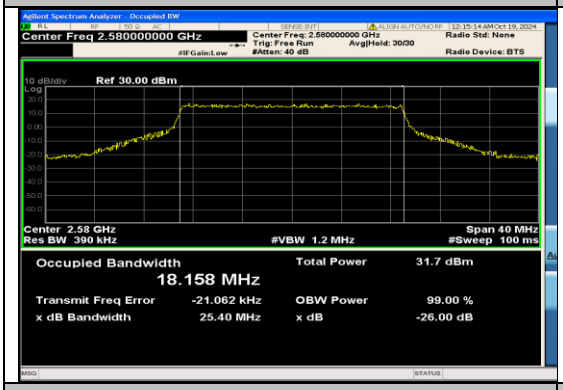
Band38-15MHz-16QAM-37825-75RB#0-PASS



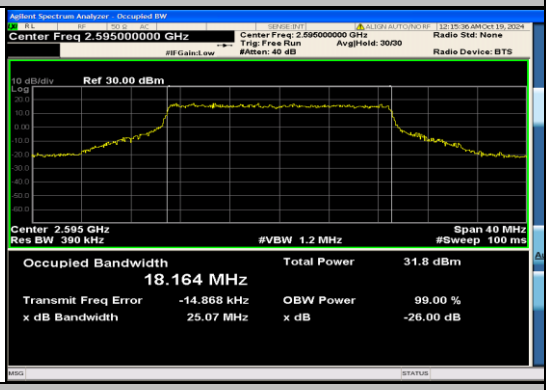
Band38-15MHz-16QAM-38000-75RB#0-PASS



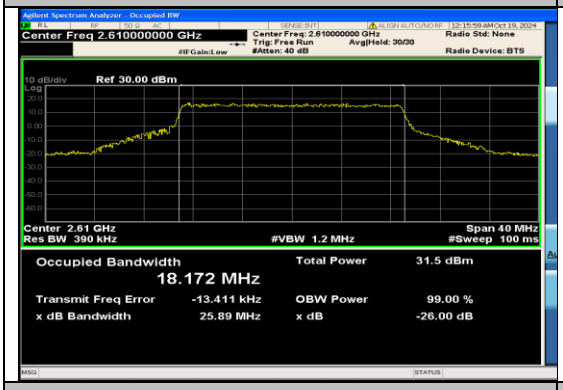
Band38-15MHz-16QAM-38175-75RB#0-PASS



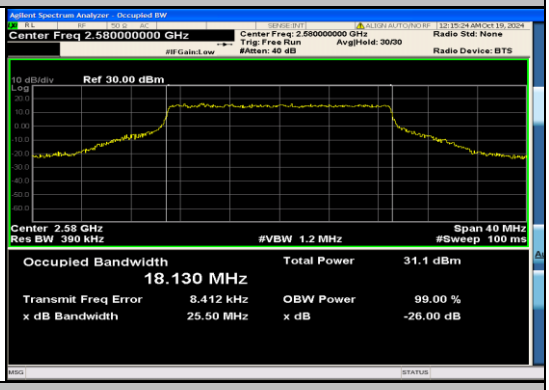
Band38-20MHz-QPSK-37850-100RB#0-PASS



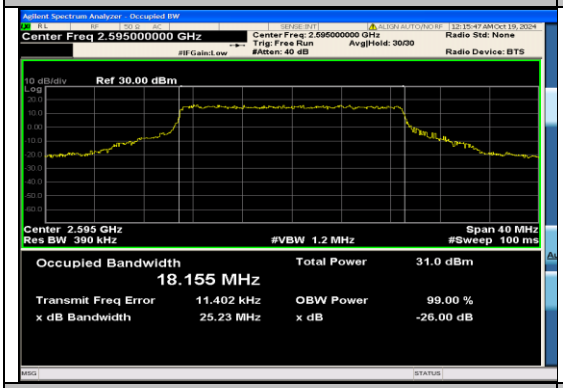
Band38-20MHz-QPSK-38000-100RB#0-PASS



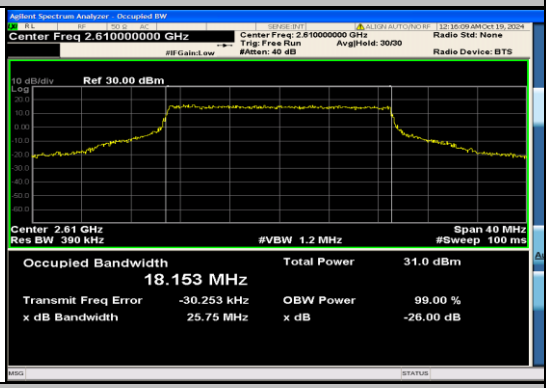
Band38-20MHz-QPSK-38150-100RB#0-PASS



Band38-20MHz-16QAM-37850-100RB#0-PASS



Band38-20MHz-16QAM-38000-100RB#0-PASS



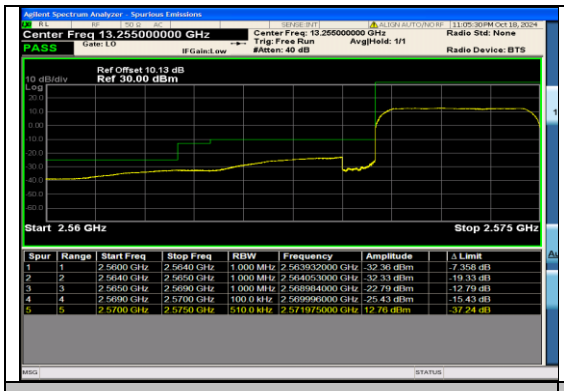
Band38-20MHz-16QAM-38150-100RB#0-PASS

Appendix D: Band Edge

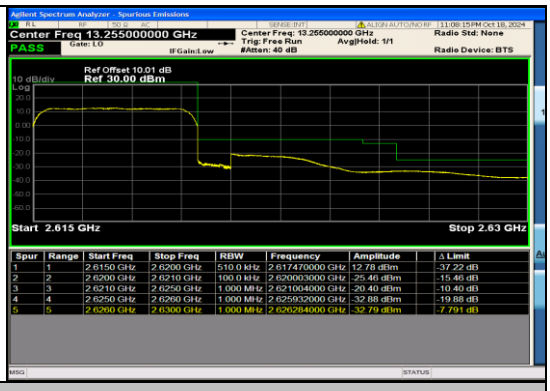
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	-32.36	PASS
Band38	5MHz	QPSK	38225	25RB#0	-32.79	PASS
Band38	5MHz	16QAM	37775	25RB#0	-32.56	PASS
Band38	5MHz	16QAM	38225	25RB#0	-33.07	PASS
Band38	10MHz	QPSK	37800	50RB#0	-35.70	PASS
Band38	10MHz	QPSK	38200	50RB#0	-35.11	PASS
Band38	10MHz	16QAM	37800	50RB#0	-34.63	PASS
Band38	10MHz	16QAM	38200	50RB#0	-34.36	PASS
Band38	15MHz	QPSK	37825	75RB#0	-36.38	PASS
Band38	15MHz	QPSK	38175	75RB#0	-35.03	PASS
Band38	15MHz	16QAM	37825	75RB#0	-35.63	PASS
Band38	15MHz	16QAM	38175	75RB#0	-34.74	PASS
Band38	20MHz	QPSK	37850	100RB#0	-38.31	PASS
Band38	20MHz	QPSK	38150	100RB#0	-36.50	PASS
Band38	20MHz	16QAM	37850	100RB#0	-37.84	PASS
Band38	20MHz	16QAM	38150	100RB#0	-36.48	PASS

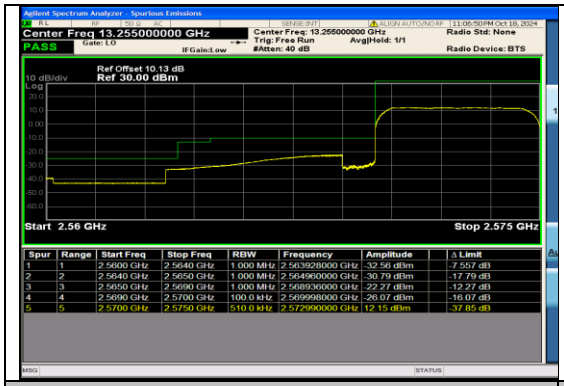
Test Graphs



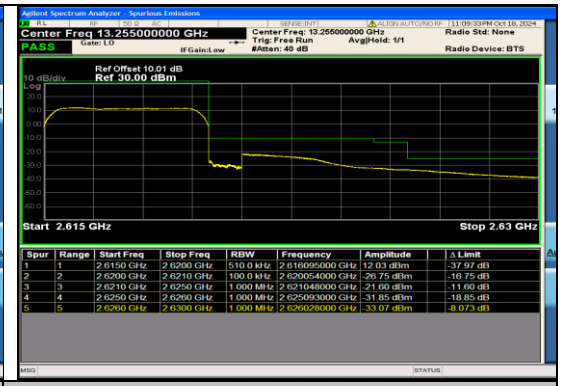
Band38_5MHz_QPSK_37775_25RB#0



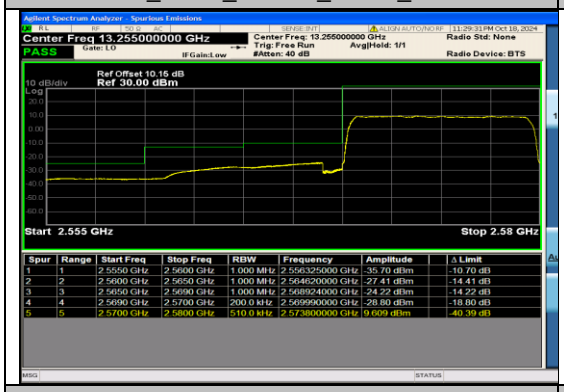
Band38_5MHz_QPSK_38225_25RB#0



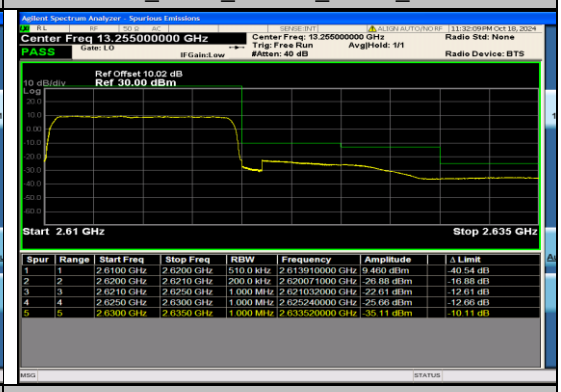
Band38_5MHz_16QAM_37775_25RB#0



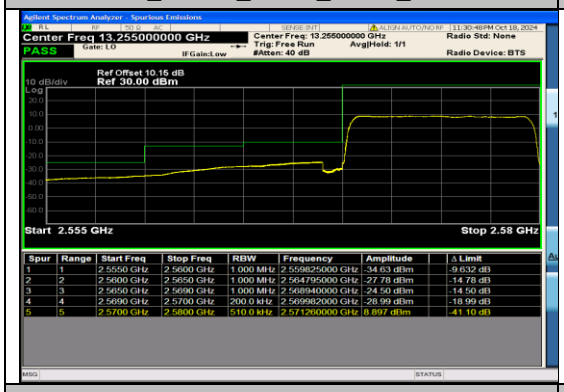
Band38_5MHz_16QAM_38225_25RB#0



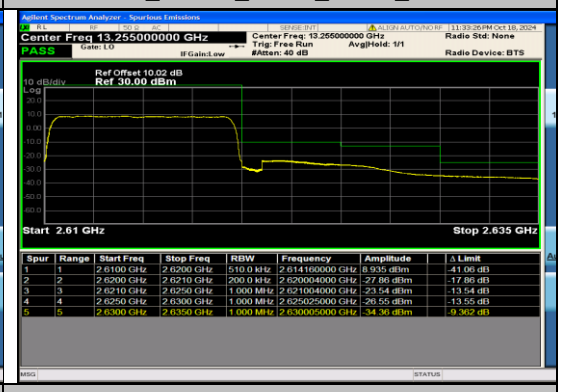
Band38_10MHz_QPSK_37800_50RB#0



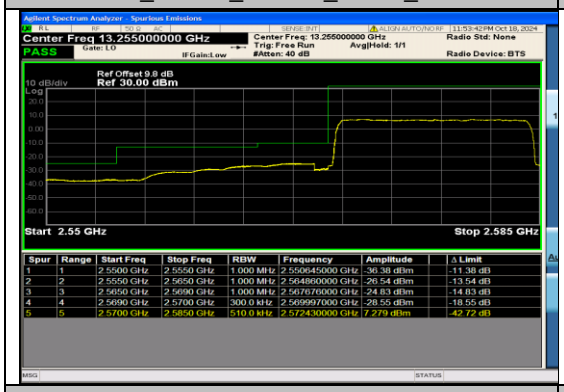
Band38_10MHz_QPSK_38200_50RB#0



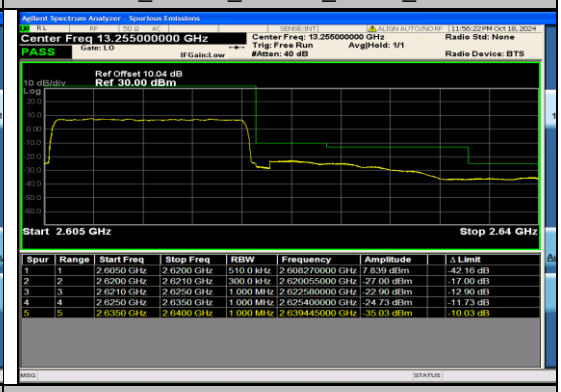
Band38_10MHz_16QAM_37800_50RB#0



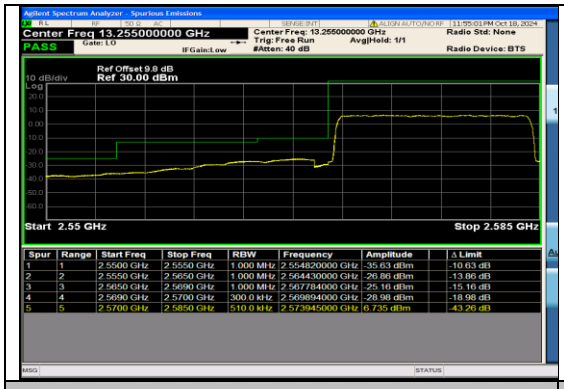
Band38_10MHz_16QAM_38200_50RB#0



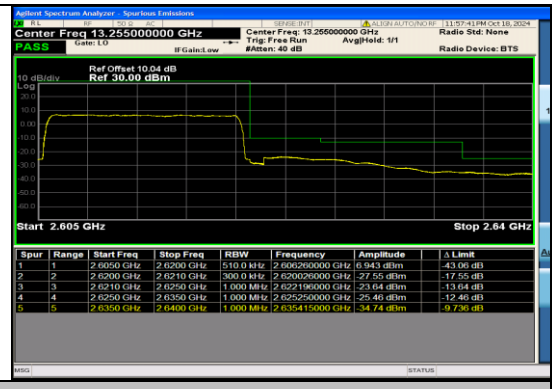
Band38_15MHz_QPSK_37825_75RB#0



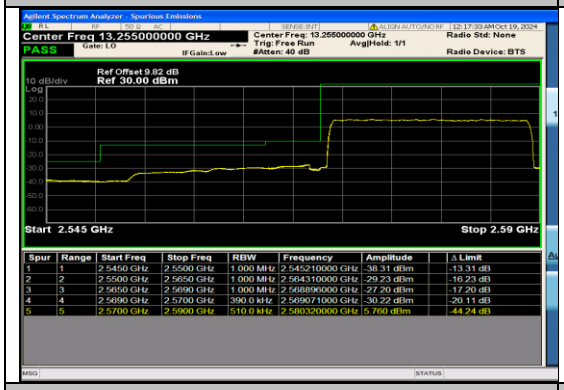
Band38_15MHz_QPSK_38175_75RB#0



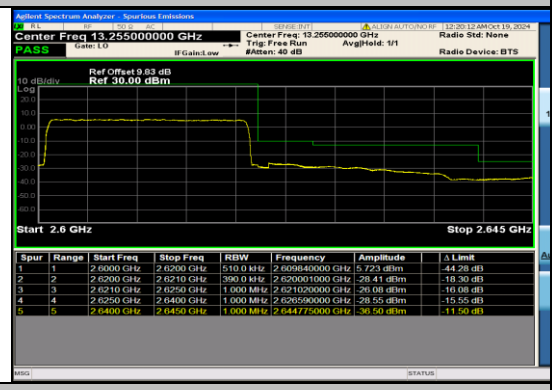
Band38_15MHz_16QAM_37825_75RB#0



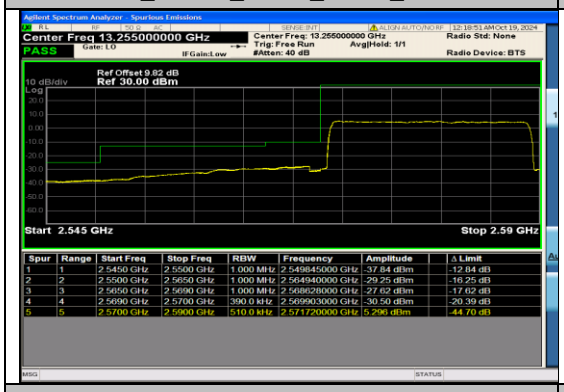
Band38_15MHz_16QAM_38175_75RB#0



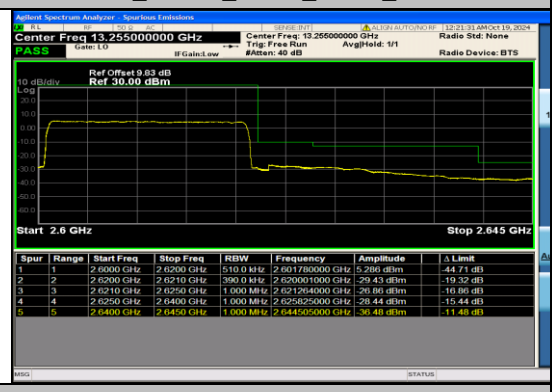
Band38_20MHz_QPSK_37850_100RB#0



Band38_20MHz_QPSK_38150_100RB#0



Band38_20MHz_16QAM_37850_100RB#0



Band38_20MHz_16QAM_38150_100RB#0

Appendix E: Conducted Spurious Emission

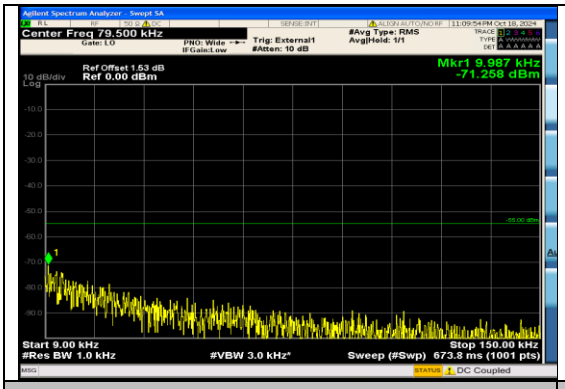
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	0.009~0.15	-71.26	PASS
Band38	5MHz	QPSK	37775	25RB#0	0.15~30	-62.94	PASS
Band38	5MHz	QPSK	37775	25RB#0	30~1000	-61.84	PASS
Band38	5MHz	QPSK	37775	25RB#0	1000~20000	-34.37	PASS
Band38	5MHz	QPSK	37775	25RB#0	20000~27000	-31.10	PASS
Band38	5MHz	QPSK	38000	25RB#0	0.009~0.15	-71.27	PASS
Band38	5MHz	QPSK	38000	25RB#0	0.15~30	-59.08	PASS
Band38	5MHz	QPSK	38000	25RB#0	30~1000	-61.32	PASS
Band38	5MHz	QPSK	38000	25RB#0	1000~20000	-32.99	PASS
Band38	5MHz	QPSK	38000	25RB#0	20000~27000	-31.36	PASS
Band38	5MHz	QPSK	38225	25RB#0	0.009~0.15	-72.70	PASS
Band38	5MHz	QPSK	38225	25RB#0	0.15~30	-59.52	PASS
Band38	5MHz	QPSK	38225	25RB#0	30~1000	-61.87	PASS
Band38	5MHz	QPSK	38225	25RB#0	1000~20000	-30.94	PASS
Band38	5MHz	QPSK	38225	25RB#0	20000~27000	-31.04	PASS
Band38	5MHz	16QAM	37775	25RB#0	0.009~0.15	-69.92	PASS
Band38	5MHz	16QAM	37775	25RB#0	0.15~30	-61.35	PASS
Band38	5MHz	16QAM	37775	25RB#0	30~1000	-62.14	PASS
Band38	5MHz	16QAM	37775	25RB#0	1000~20000	-34.76	PASS
Band38	5MHz	16QAM	37775	25RB#0	20000~27000	-30.89	PASS
Band38	5MHz	16QAM	38000	25RB#0	0.009~0.15	-72.36	PASS
Band38	5MHz	16QAM	38000	25RB#0	0.15~30	-61.80	PASS
Band38	5MHz	16QAM	38000	25RB#0	30~1000	-61.80	PASS
Band38	5MHz	16QAM	38000	25RB#0	1000~20000	-26.69	PASS
Band38	5MHz	16QAM	38000	25RB#0	20000~27000	-31.11	PASS
Band38	5MHz	16QAM	38225	25RB#0	0.009~0.15	-71.92	PASS
Band38	5MHz	16QAM	38225	25RB#0	0.15~30	-61.85	PASS
Band38	5MHz	16QAM	38225	25RB#0	30~1000	-61.91	PASS
Band38	5MHz	16QAM	38225	25RB#0	1000~20000	-32.57	PASS
Band38	5MHz	16QAM	38225	25RB#0	20000~27000	-31.19	PASS
Band38	10MHz	QPSK	37800	50RB#0	0.009~0.15	-64.12	PASS
Band38	10MHz	QPSK	37800	50RB#0	0.15~30	-60.02	PASS
Band38	10MHz	QPSK	37800	50RB#0	30~1000	-61.69	PASS
Band38	10MHz	QPSK	37800	50RB#0	1000~20000	-37.16	PASS
Band38	10MHz	QPSK	37800	50RB#0	20000~27000	-31.27	PASS
Band38	10MHz	QPSK	38000	50RB#0	0.009~0.15	-62.79	PASS

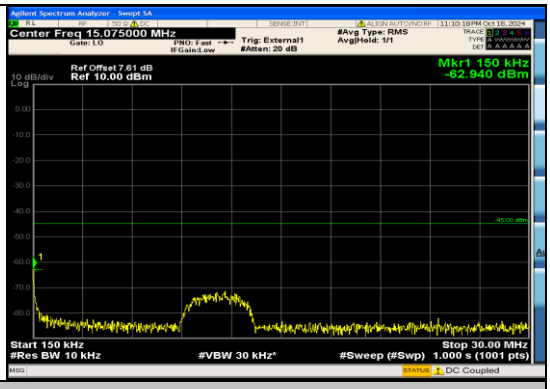
Band38	10MHz	QPSK	38000	50RB#0	0.15~30	-62.76	PASS
Band38	10MHz	QPSK	38000	50RB#0	30~1000	-61.99	PASS
Band38	10MHz	QPSK	38000	50RB#0	1000~20000	-35.10	PASS
Band38	10MHz	QPSK	38000	50RB#0	20000~27000	-30.91	PASS
Band38	10MHz	QPSK	38200	50RB#0	0.009~0.15	-63.21	PASS
Band38	10MHz	QPSK	38200	50RB#0	0.15~30	-59.72	PASS
Band38	10MHz	QPSK	38200	50RB#0	30~1000	-61.91	PASS
Band38	10MHz	QPSK	38200	50RB#0	1000~20000	-34.96	PASS
Band38	10MHz	QPSK	38200	50RB#0	20000~27000	-31.04	PASS
Band38	10MHz	16QAM	37800	50RB#0	0.009~0.15	-61.19	PASS
Band38	10MHz	16QAM	37800	50RB#0	0.15~30	-61.79	PASS
Band38	10MHz	16QAM	37800	50RB#0	30~1000	-61.86	PASS
Band38	10MHz	16QAM	37800	50RB#0	1000~20000	-35.98	PASS
Band38	10MHz	16QAM	37800	50RB#0	20000~27000	-31.36	PASS
Band38	10MHz	16QAM	38000	50RB#0	0.009~0.15	-62.70	PASS
Band38	10MHz	16QAM	38000	50RB#0	0.15~30	-62.72	PASS
Band38	10MHz	16QAM	38000	50RB#0	30~1000	-61.99	PASS
Band38	10MHz	16QAM	38000	50RB#0	1000~20000	-37.63	PASS
Band38	10MHz	16QAM	38000	50RB#0	20000~27000	-31.33	PASS
Band38	10MHz	16QAM	38200	50RB#0	0.009~0.15	-63.69	PASS
Band38	10MHz	16QAM	38200	50RB#0	0.15~30	-62.44	PASS
Band38	10MHz	16QAM	38200	50RB#0	30~1000	-62.01	PASS
Band38	10MHz	16QAM	38200	50RB#0	1000~20000	-36.11	PASS
Band38	10MHz	16QAM	38200	50RB#0	20000~27000	-31.09	PASS
Band38	15MHz	QPSK	37825	75RB#0	0.009~0.15	-64.57	PASS
Band38	15MHz	QPSK	37825	75RB#0	0.15~30	-62.66	PASS
Band38	15MHz	QPSK	37825	75RB#0	30~1000	-61.94	PASS
Band38	15MHz	QPSK	37825	75RB#0	1000~20000	-35.38	PASS
Band38	15MHz	QPSK	37825	75RB#0	20000~27000	-30.77	PASS
Band38	15MHz	QPSK	38000	75RB#0	0.009~0.15	-63.73	PASS
Band38	15MHz	QPSK	38000	75RB#0	0.15~30	-63.32	PASS
Band38	15MHz	QPSK	38000	75RB#0	30~1000	-61.87	PASS
Band38	15MHz	QPSK	38000	75RB#0	1000~20000	-37.16	PASS
Band38	15MHz	QPSK	38000	75RB#0	20000~27000	-31.35	PASS
Band38	15MHz	QPSK	38175	75RB#0	0.009~0.15	-65.87	PASS
Band38	15MHz	QPSK	38175	75RB#0	0.15~30	-61.61	PASS
Band38	15MHz	QPSK	38175	75RB#0	30~1000	-61.92	PASS
Band38	15MHz	QPSK	38175	75RB#0	1000~20000	-32.10	PASS
Band38	15MHz	QPSK	38175	75RB#0	20000~27000	-31.23	PASS
Band38	15MHz	16QAM	37825	75RB#0	0.009~0.15	-63.48	PASS
Band38	15MHz	16QAM	37825	75RB#0	0.15~30	-63.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	30~1000	-61.75	PASS
Band38	15MHz	16QAM	37825	75RB#0	1000~20000	-36.32	PASS

Band38	15MHz	16QAM	37825	75RB#0	20000~27000	-31.33	PASS
Band38	15MHz	16QAM	38000	75RB#0	0.009~0.15	-61.67	PASS
Band38	15MHz	16QAM	38000	75RB#0	0.15~30	-61.67	PASS
Band38	15MHz	16QAM	38000	75RB#0	30~1000	-62.03	PASS
Band38	15MHz	16QAM	38000	75RB#0	1000~20000	-37.58	PASS
Band38	15MHz	16QAM	38000	75RB#0	20000~27000	-31.17	PASS
Band38	15MHz	16QAM	38175	75RB#0	0.009~0.15	-64.38	PASS
Band38	15MHz	16QAM	38175	75RB#0	0.15~30	-62.74	PASS
Band38	15MHz	16QAM	38175	75RB#0	30~1000	-61.97	PASS
Band38	15MHz	16QAM	38175	75RB#0	1000~20000	-33.29	PASS
Band38	15MHz	16QAM	38175	75RB#0	20000~27000	-31.27	PASS
Band38	20MHz	QPSK	37850	100RB#0	0.009~0.15	-63.66	PASS
Band38	20MHz	QPSK	37850	100RB#0	0.15~30	-60.92	PASS
Band38	20MHz	QPSK	37850	100RB#0	30~1000	-61.97	PASS
Band38	20MHz	QPSK	37850	100RB#0	1000~20000	-38.14	PASS
Band38	20MHz	QPSK	37850	100RB#0	20000~27000	-31.10	PASS
Band38	20MHz	QPSK	38000	100RB#0	0.009~0.15	-64.35	PASS
Band38	20MHz	QPSK	38000	100RB#0	0.15~30	-64.05	PASS
Band38	20MHz	QPSK	38000	100RB#0	30~1000	-61.83	PASS
Band38	20MHz	QPSK	38000	100RB#0	1000~20000	-37.55	PASS
Band38	20MHz	QPSK	38000	100RB#0	20000~27000	-31.31	PASS
Band38	20MHz	QPSK	38150	100RB#0	0.009~0.15	-63.24	PASS
Band38	20MHz	QPSK	38150	100RB#0	0.15~30	-63.32	PASS
Band38	20MHz	QPSK	38150	100RB#0	30~1000	-61.90	PASS
Band38	20MHz	QPSK	38150	100RB#0	1000~20000	-36.34	PASS
Band38	20MHz	QPSK	38150	100RB#0	20000~27000	-31.30	PASS
Band38	20MHz	16QAM	37850	100RB#0	0.009~0.15	-63.23	PASS
Band38	20MHz	16QAM	37850	100RB#0	0.15~30	-59.55	PASS
Band38	20MHz	16QAM	37850	100RB#0	30~1000	-61.50	PASS
Band38	20MHz	16QAM	37850	100RB#0	1000~20000	-37.61	PASS
Band38	20MHz	16QAM	37850	100RB#0	20000~27000	-31.09	PASS
Band38	20MHz	16QAM	38000	100RB#0	0.009~0.15	-66.72	PASS
Band38	20MHz	16QAM	38000	100RB#0	0.15~30	-61.97	PASS
Band38	20MHz	16QAM	38000	100RB#0	30~1000	-61.47	PASS
Band38	20MHz	16QAM	38000	100RB#0	1000~20000	-37.79	PASS
Band38	20MHz	16QAM	38000	100RB#0	20000~27000	-31.04	PASS
Band38	20MHz	16QAM	38150	100RB#0	0.009~0.15	-63.59	PASS
Band38	20MHz	16QAM	38150	100RB#0	0.15~30	-63.72	PASS
Band38	20MHz	16QAM	38150	100RB#0	30~1000	-61.82	PASS
Band38	20MHz	16QAM	38150	100RB#0	1000~20000	-37.45	PASS
Band38	20MHz	16QAM	38150	100RB#0	20000~27000	-31.12	PASS

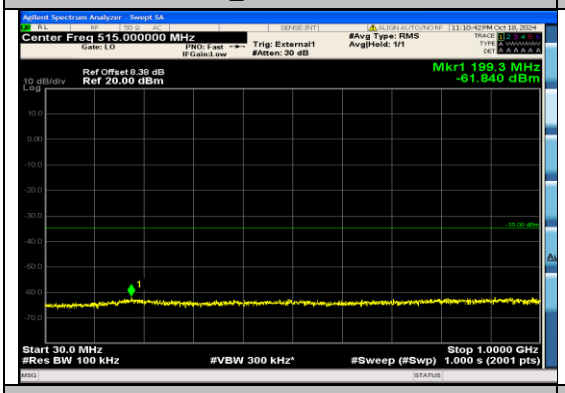
Test Graphs



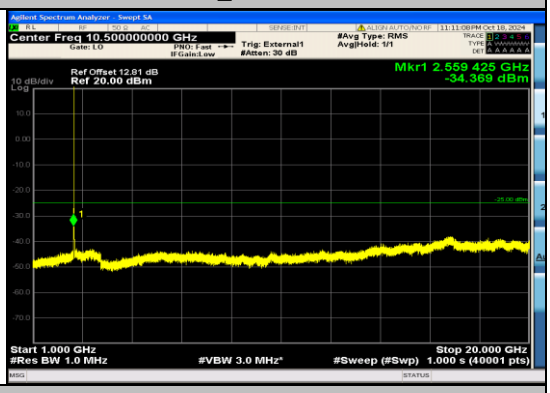
Band38_5MHz_QPSK_37775_25RB#0_0.009~0.15_0.009~0.15



Band38_5MHz_QPSK_37775_25RB#0_0.15~30_0.15~30



Band38_5MHz_QPSK_37775_25RB#0_30~1000_30~1000



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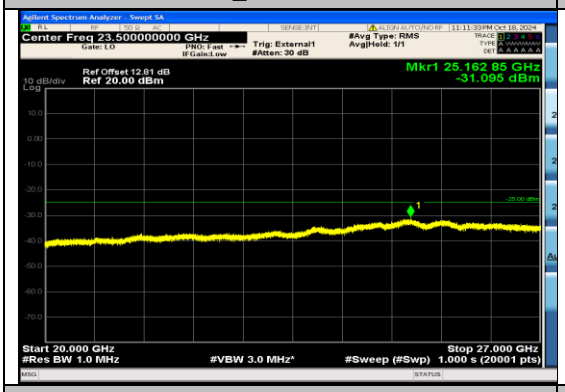

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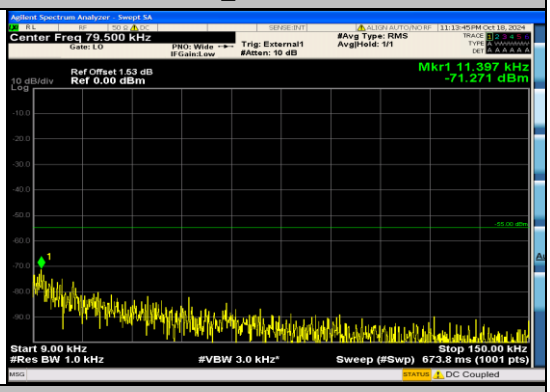
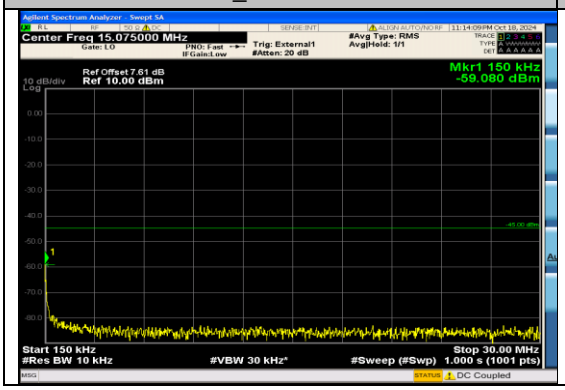
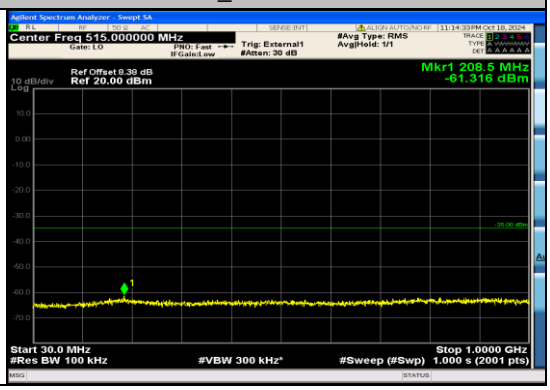


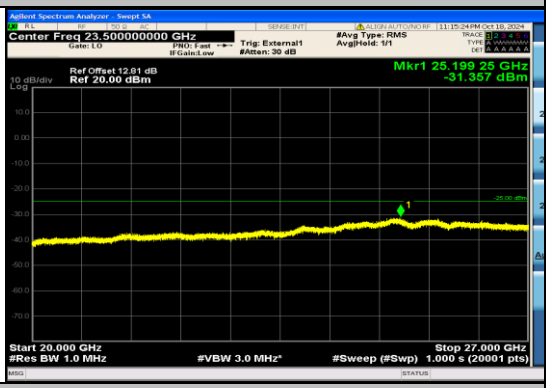
Band38_5MHz_QPSK_38000_25RB#0_0.009~0.15_0.009~0.15





Band38_5MHz_QPSK_38000_25RB#0_0.15~30_0.15~30

Band38_5MHz_QPSK_38000_25RB#0_30~1000_30~1000



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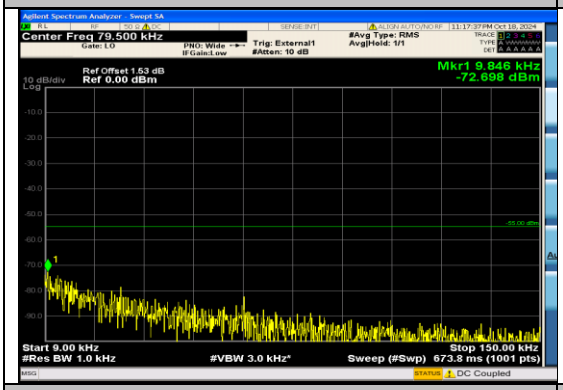

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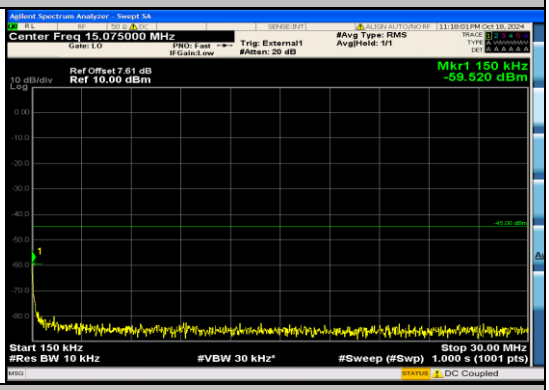

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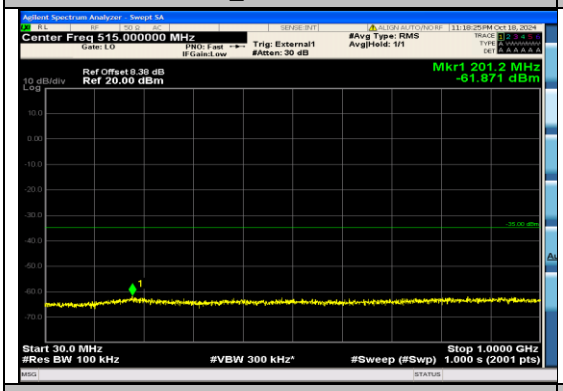

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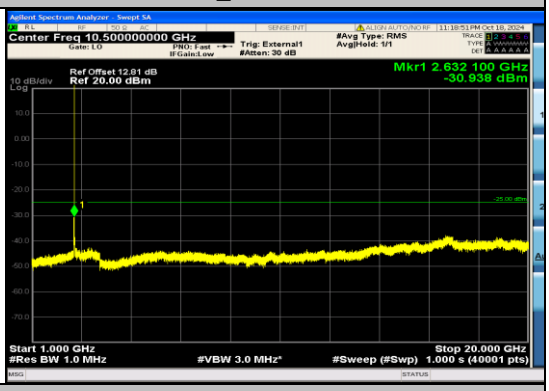
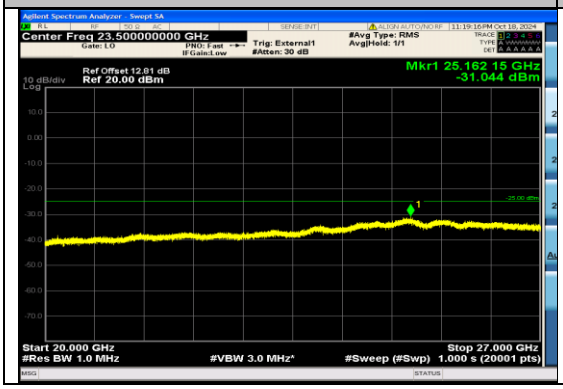
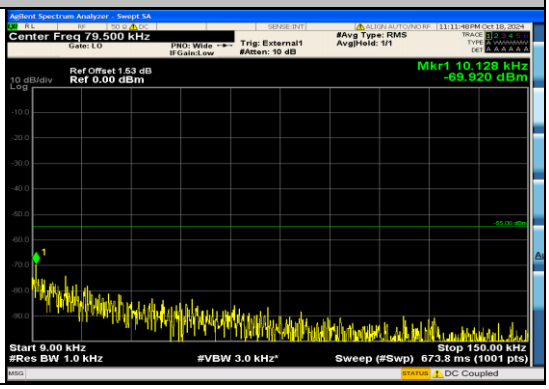


Band38_5MHz_QPSK_38225_25RB#0_30~1000_30~1000



Band38_5MHz_QPSK_38225_25RB#0_1000~20000_1000~20000