



Test Report No.: W7L-P23030004RF06

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



Test Report No.: W7L-P23030004RF06

4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.



Test Report No.: W7L-P23030004RF06

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

6 APPENDIX

LTE BAND7

LTE Band 7

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	1RB#0	4.63	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.28	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	4.61	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.20	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	4.84	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.48	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	5.42	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.97	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	5.23	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.83	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	5.51	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.20	13	PASS
Band7	20MHz	64QAM	20850	1RB#0	6.10	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	5.93	13	PASS
Band7	20MHz	64QAM	21100	1RB#0	5.95	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	5.82	13	PASS
Band7	20MHz	64QAM	21350	1RB#0	6.11	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	5.92	13	PASS

Test Graphs

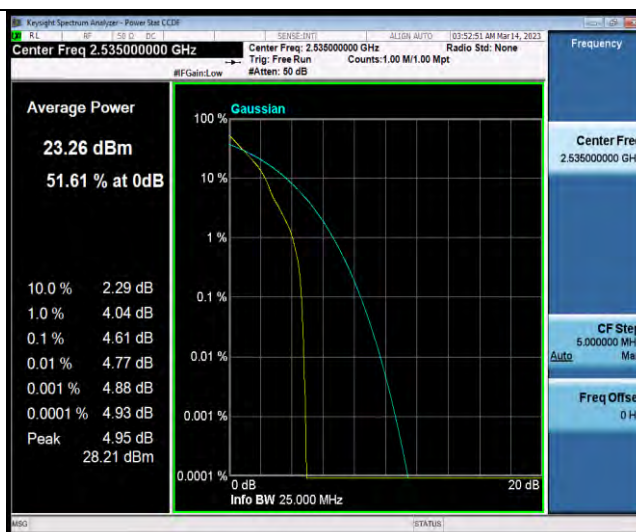
Band7-20MHz-QPSK-20850-1RB#0



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



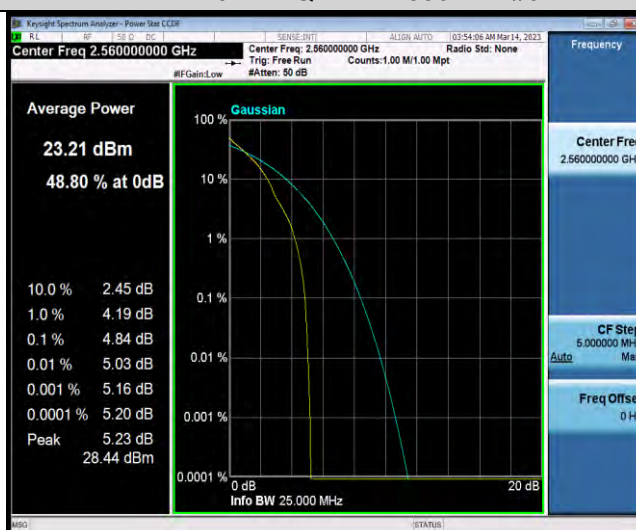
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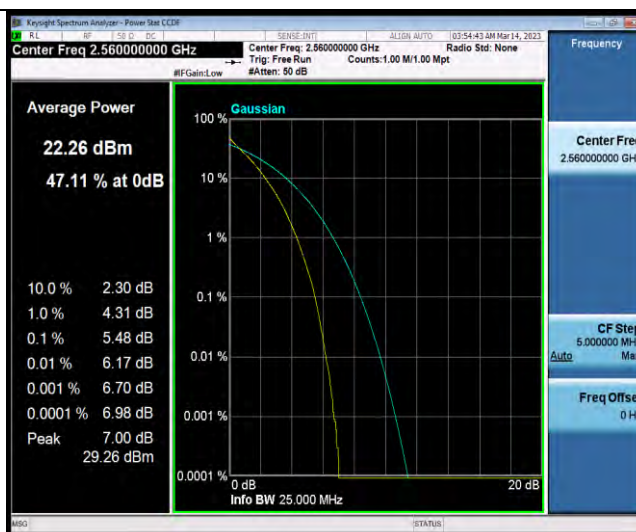
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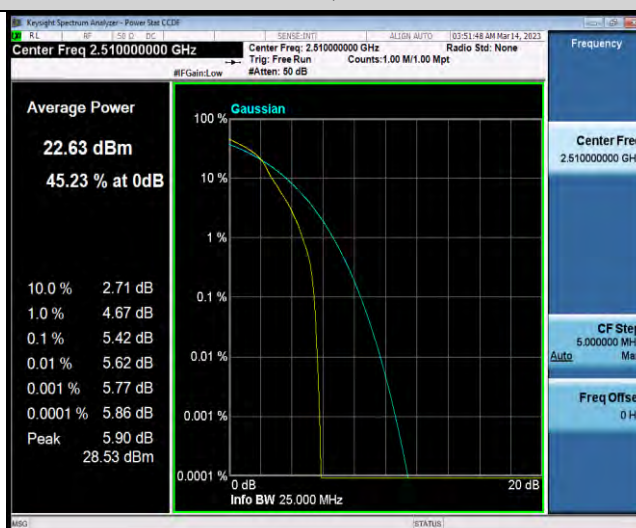
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Band7-20MHz-QPSK-21350-100RB#0



Band7-20MHz-16QAM-20850-1RB#0



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

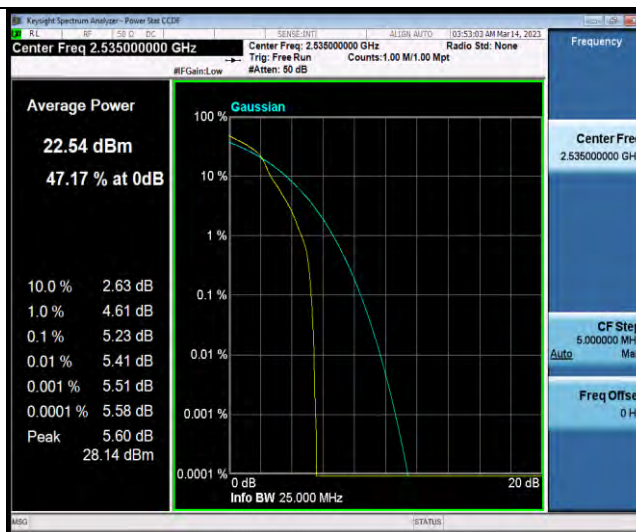


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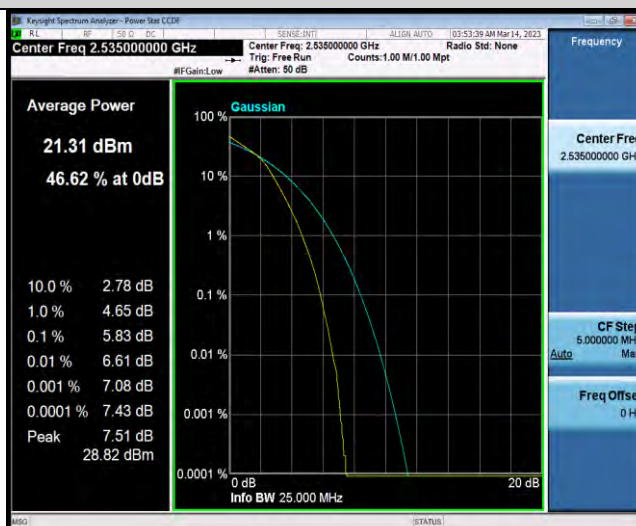


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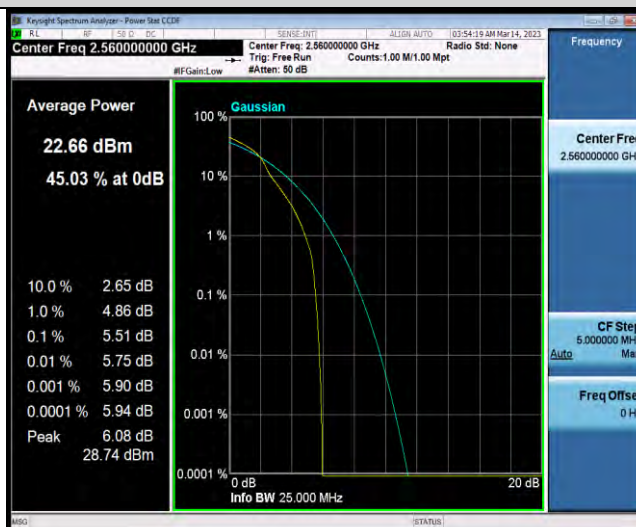
Test Report No.: W7L-P23030004RF06



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



Band7-20MHz-16QAM-21350-1RB#0

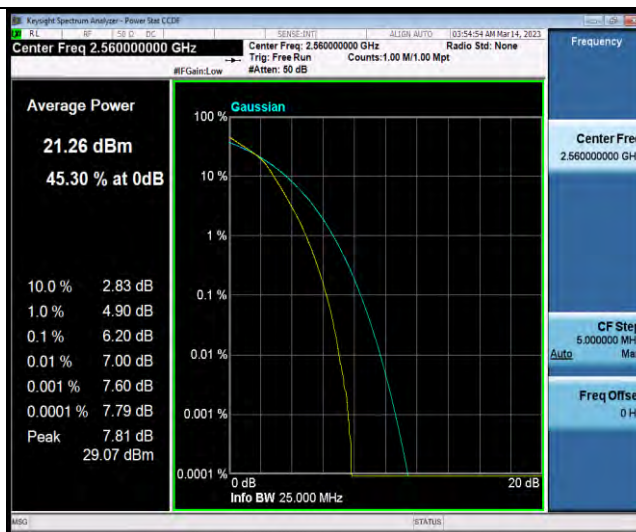


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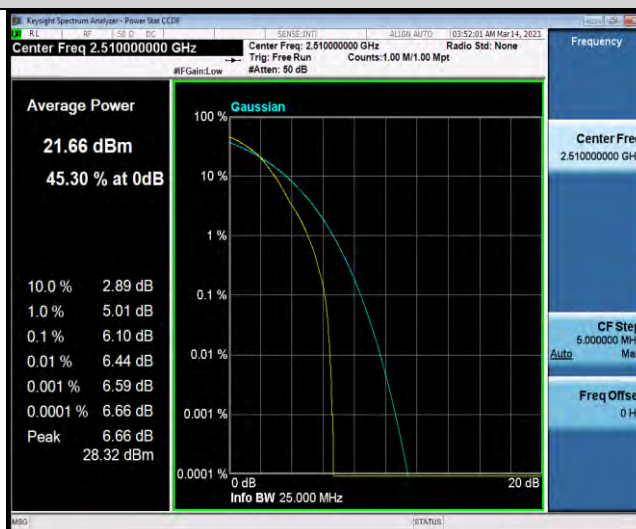


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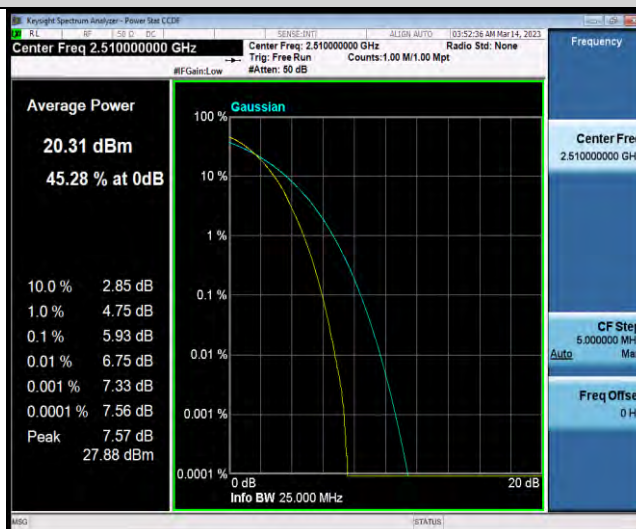
Test Report No.: W7L-P23030004RF06



Band7-20MHz-64QAM-20850-1RB#0



Band7-20MHz-64QAM-20850-100RB#0

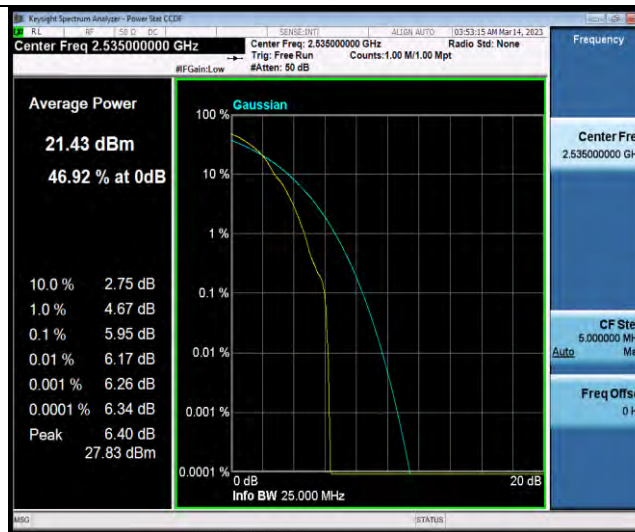


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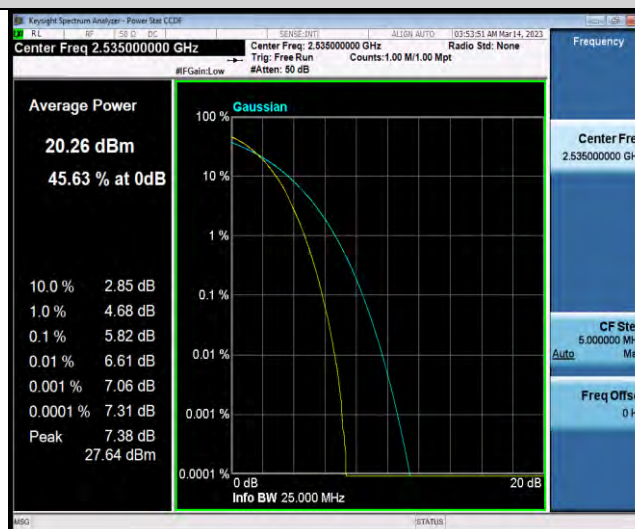


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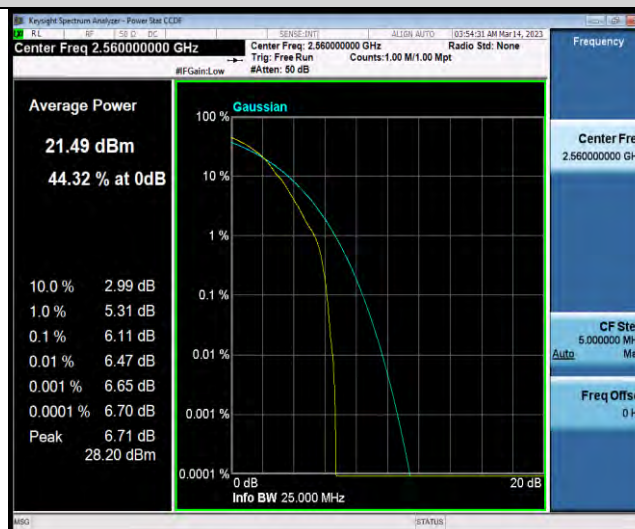
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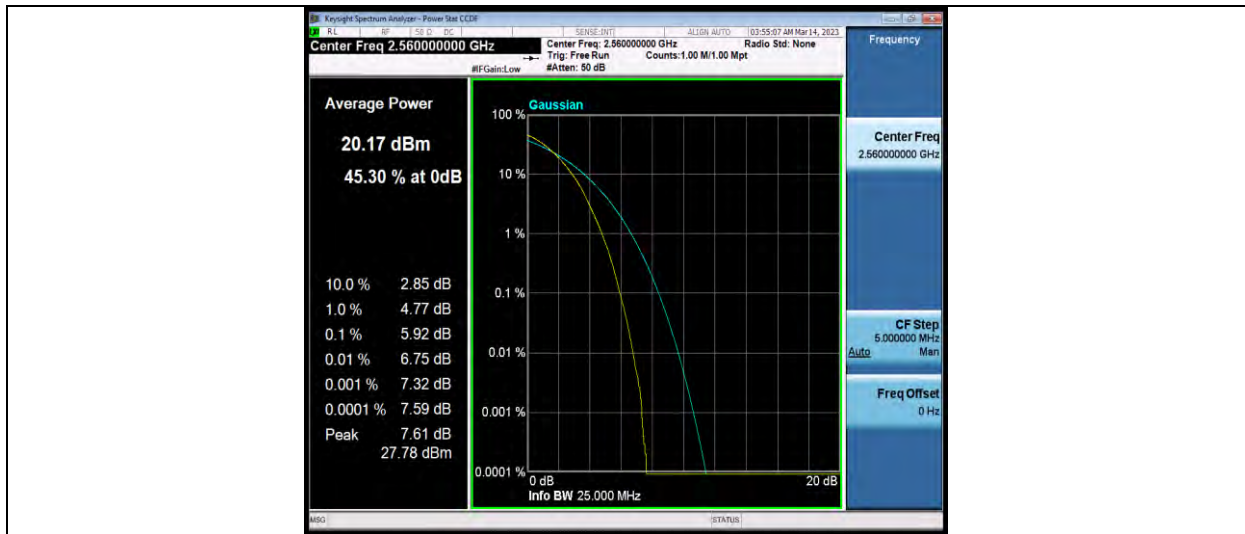


Band7-20MHz-64QAM-21350-100RB#0



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Test Report No.: W7L-P23030004RF06



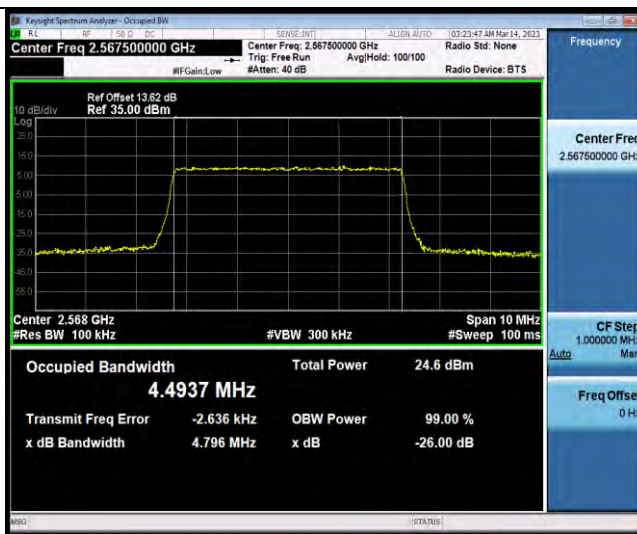
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

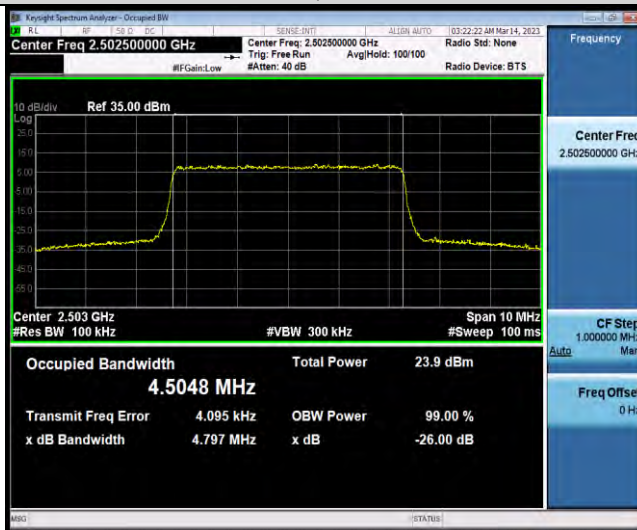
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.4970	4.804	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4967	4.800	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.4937	4.796	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5048	4.797	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5059	4.805	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5012	4.790	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.5010	4.824	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.4992	4.806	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.5012	4.815	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9893	9.521	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9864	9.537	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9847	9.527	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9832	9.518	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9867	9.519	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9718	9.520	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.9762	9.523	PASS
Band7	10MHz	64QAM	21100	50RB#0	9.0065	9.526	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.9850	9.519	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.479	14.27	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.479	14.27	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.477	14.25	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.471	14.25	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.463	14.26	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.469	14.25	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.472	14.25	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.477	14.27	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.458	14.25	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.948	18.98	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.946	18.97	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.936	18.96	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.939	18.98	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.937	18.97	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.949	18.97	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.952	18.96	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.950	18.99	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.946	18.97	PASS

Test Graphs





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



Band7-5MHz-16QAM-21100-25RB#0

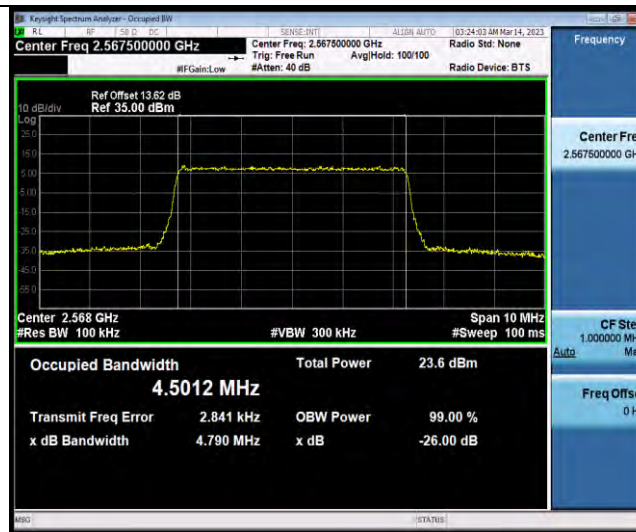


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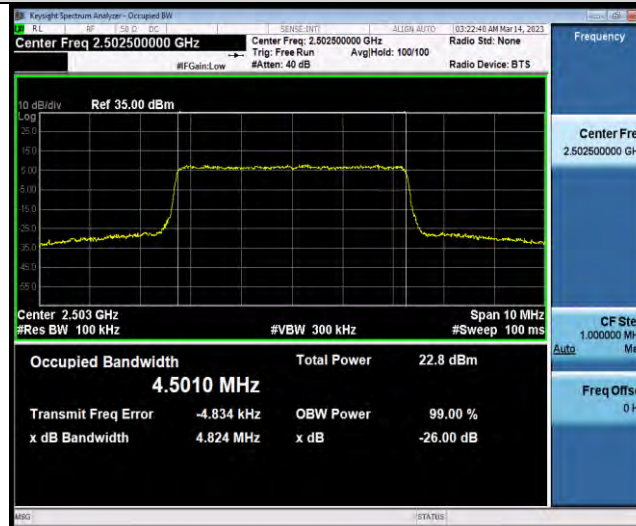


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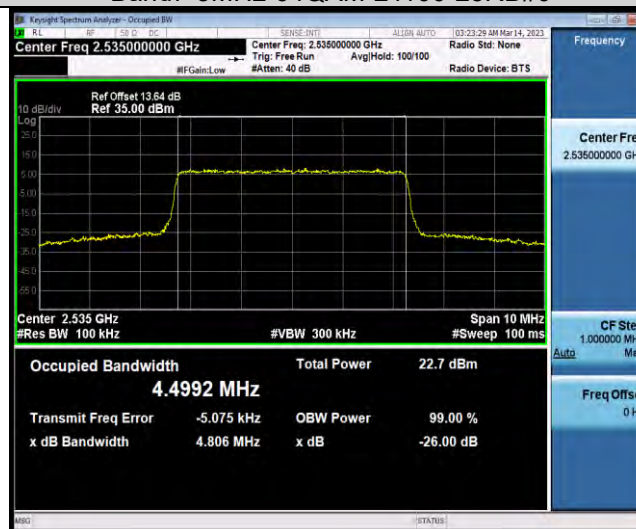
Test Report No.: W7L-P23030004RF06



Band7-5MHz-64QAM-20775-25RB#0



Band7-5MHz-64QAM-21100-25RB#0



Band7-5MHz-64QAM-21425-25RB#0



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Test Report No.: W7L-P23030004RF06



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



Band7-10MHz-QPSK-21100-50RB#0



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



Band7-10MHz-16QAM-20800-50RB#0



Band7-10MHz-16QAM-21100-50RB#0



Band7-10MHz-16QAM-21400-50RB#0



Band7-10MHz-64QAM-20800-50RB#0



Band7-10MHz-64QAM-21100-50RB#0

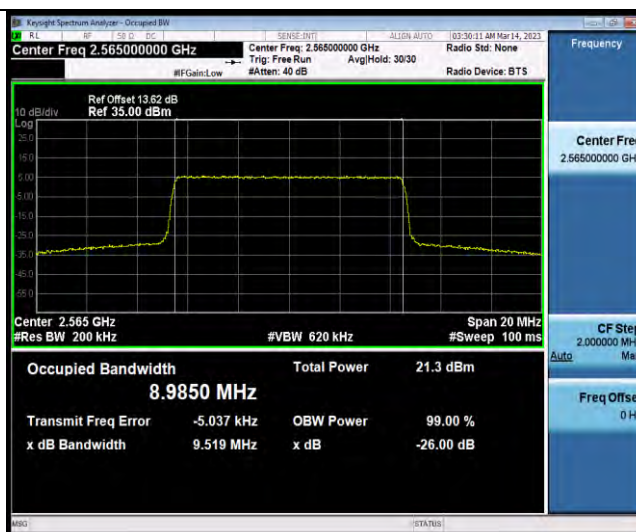


Band7-10MHz-64QAM-21400-50RB#0



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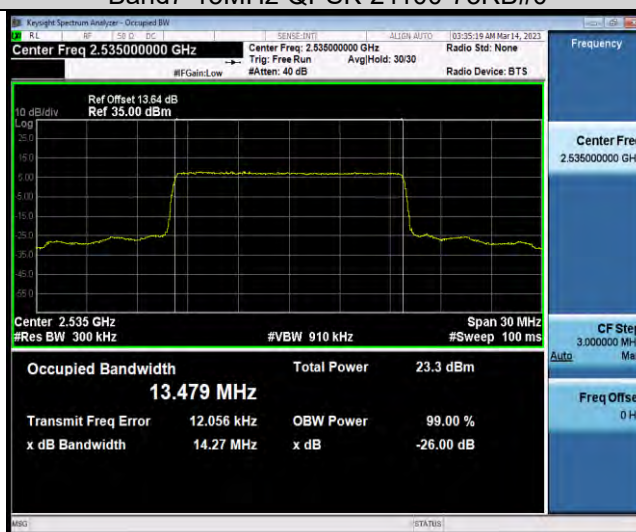
Test Report No.: W7L-P23030004RF06



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



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



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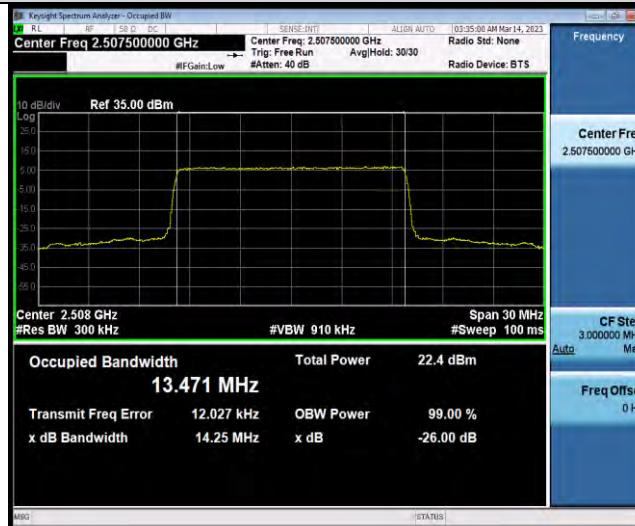


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Test Report No.: W7L-P23030004RF06



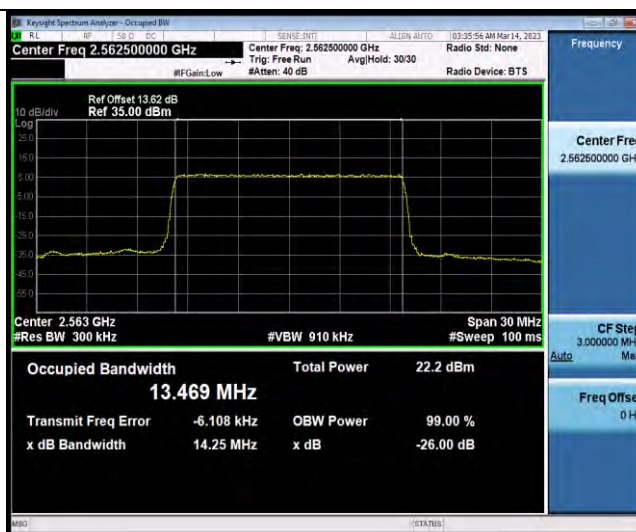
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Band7-15MHz-16QAM-21100-75RB#0



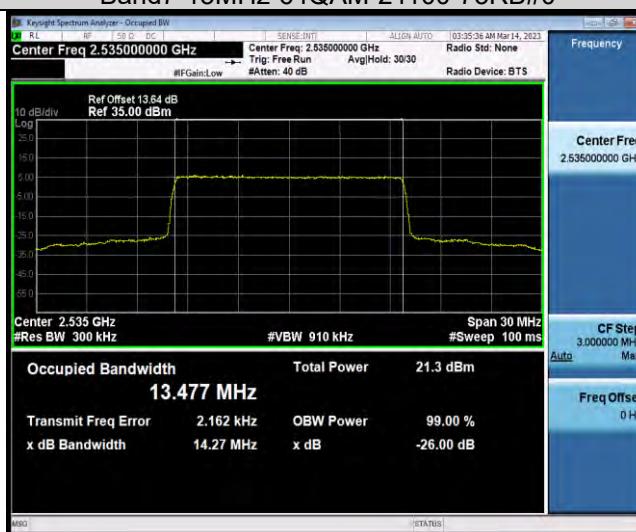
Band7-15MHz-16QAM-21375-75RB#0



Band7-15MHz-64QAM-20825-75RB#0



Band7-15MHz-64QAM-21100-75RB#0



Band7-15MHz-64QAM-21375-75RB#0



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



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



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

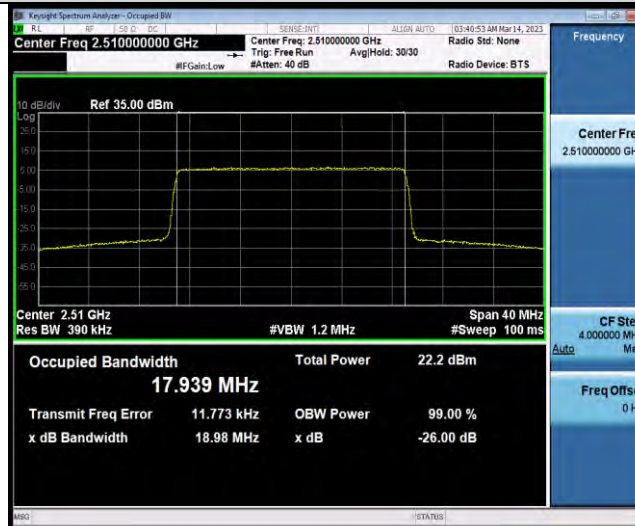


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Test Report No.: W7L-P23030004RF06



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



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



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



Band7-20MHz-64QAM-20850-100RB#0



Band7-20MHz-64QAM-21100-100RB#0



Band7-20MHz-64QAM-21350-100RB#0



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Test Report No.: W7L-P23030004RF06



BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	-46.52,-43.49,-38.59,-26.70	PASS
Band7	5MHz	QPSK	20775	25RB#0	-43.88,-36.44,-27.02,-31.40	PASS
Band7	5MHz	QPSK	21425	1RB#24	-27.31,-38.80,-46.74,-45.46	PASS
Band7	5MHz	QPSK	21425	25RB#0	-35.49,-31.55,-41.22,-42.81	PASS
Band7	5MHz	16QAM	20775	1RB#0	-46.73,-43.67,-38.96,-26.97	PASS
Band7	5MHz	16QAM	20775	25RB#0	-44.79,-38.90,-28.77,-33.30	PASS
Band7	5MHz	16QAM	21425	1RB#24	-28.50,-39.41,-46.79,-45.93	PASS
Band7	5MHz	16QAM	21425	25RB#0	-36.30,-31.80,-41.66,-44.07	PASS
Band7	5MHz	64QAM	20775	1RB#0	-47.94,-44.38,-39.84,-27.86	PASS
Band7	5MHz	64QAM	20775	25RB#0	-45.43,-39.39,-26.03,-31.22	PASS
Band7	5MHz	64QAM	21425	1RB#24	-26.95,-40.48,-47.23,-46.91	PASS
Band7	5MHz	64QAM	21425	25RB#0	-31.45,-26.70,-42.94,-45.10	PASS
Band7	10MHz	QPSK	20800	1RB#0	-48.30,-43.21,-40.44,-31.73	PASS
Band7	10MHz	QPSK	20800	50RB#0	-46.15,-31.20,-28.05,-30.58	PASS
Band7	10MHz	QPSK	21400	1RB#49	-32.60,-40.95,-46.07,-48.80	PASS
Band7	10MHz	QPSK	21400	50RB#0	-35.56,-32.84,-36.46,-44.36	PASS
Band7	10MHz	16QAM	20800	1RB#0	-48.30,-43.93,-40.76,-33.30	PASS
Band7	10MHz	16QAM	20800	50RB#0	-45.38,-32.53,-29.29,-32.34	PASS
Band7	10MHz	16QAM	21400	1RB#49	-34.03,-40.88,-46.27,-48.48	PASS
Band7	10MHz	16QAM	21400	50RB#0	-36.37,-33.81,-37.50,-43.78	PASS
Band7	10MHz	64QAM	20800	1RB#0	-48.59,-44.63,-41.65,-35.90	PASS
Band7	10MHz	64QAM	20800	50RB#0	-46.03,-31.27,-27.49,-30.23	PASS
Band7	10MHz	64QAM	21400	1RB#49	-33.33,-41.64,-46.51,-48.71	PASS
Band7	10MHz	64QAM	21400	50RB#0	-31.00,-28.04,-33.53,-45.19	PASS
Band7	15MHz	QPSK	20825	1RB#0	-44.32,-44.70,-40.62,-35.74	PASS
Band7	15MHz	QPSK	20825	75RB#0	-36.03,-29.24,-26.35,-30.12	PASS
Band7	15MHz	QPSK	21375	1RB#74	-35.22,-41.00,-43.36,-49.37	PASS
Band7	15MHz	QPSK	21375	75RB#0	-36.19,-32.84,-35.35,-44.55	PASS
Band7	15MHz	16QAM	20825	1RB#0	-45.06,-44.76,-41.16,-36.23	PASS
Band7	15MHz	16QAM	20825	75RB#0	-38.57,-31.39,-28.90,-32.93	PASS
Band7	15MHz	16QAM	21375	1RB#74	-37.62,-41.48,-43.79,-49.30	PASS
Band7	15MHz	16QAM	21375	75RB#0	-38.27,-34.25,-37.47,-44.65	PASS
Band7	15MHz	64QAM	20825	1RB#0	-46.10,-45.42,-41.77,-40.53	PASS
Band7	15MHz	64QAM	20825	75RB#0	-38.22,-30.31,-27.80,-31.36	PASS
Band7	15MHz	64QAM	21375	1RB#74	-37.11,-42.13,-45.18,-49.32	PASS
Band7	15MHz	64QAM	21375	75RB#0	-31.98,-28.35,-31.42,-45.94	PASS
Band7	20MHz	QPSK	20850	1RB#0	-46.57,-45.01,-42.78,-39.13	PASS
Band7	20MHz	QPSK	20850	100RB#0	-34.73,-31.73,-29.80,-33.26	PASS
Band7	20MHz	QPSK	21350	1RB#99	-41.19,-43.31,-45.34,-49.26	PASS
Band7	20MHz	QPSK	21350	100RB#0	-38.37,-34.99,-36.72,-47.27	PASS
Band7	20MHz	16QAM	20850	1RB#0	-46.78,-45.25,-43.09,-40.01	PASS
Band7	20MHz	16QAM	20850	100RB#0	-36.55,-33.33,-31.71,-35.41	PASS
Band7	20MHz	16QAM	21350	1RB#99	-40.36,-43.56,-45.80,-49.40	PASS
Band7	20MHz	16QAM	21350	100RB#0	-39.67,-36.50,-38.28,-47.11	PASS

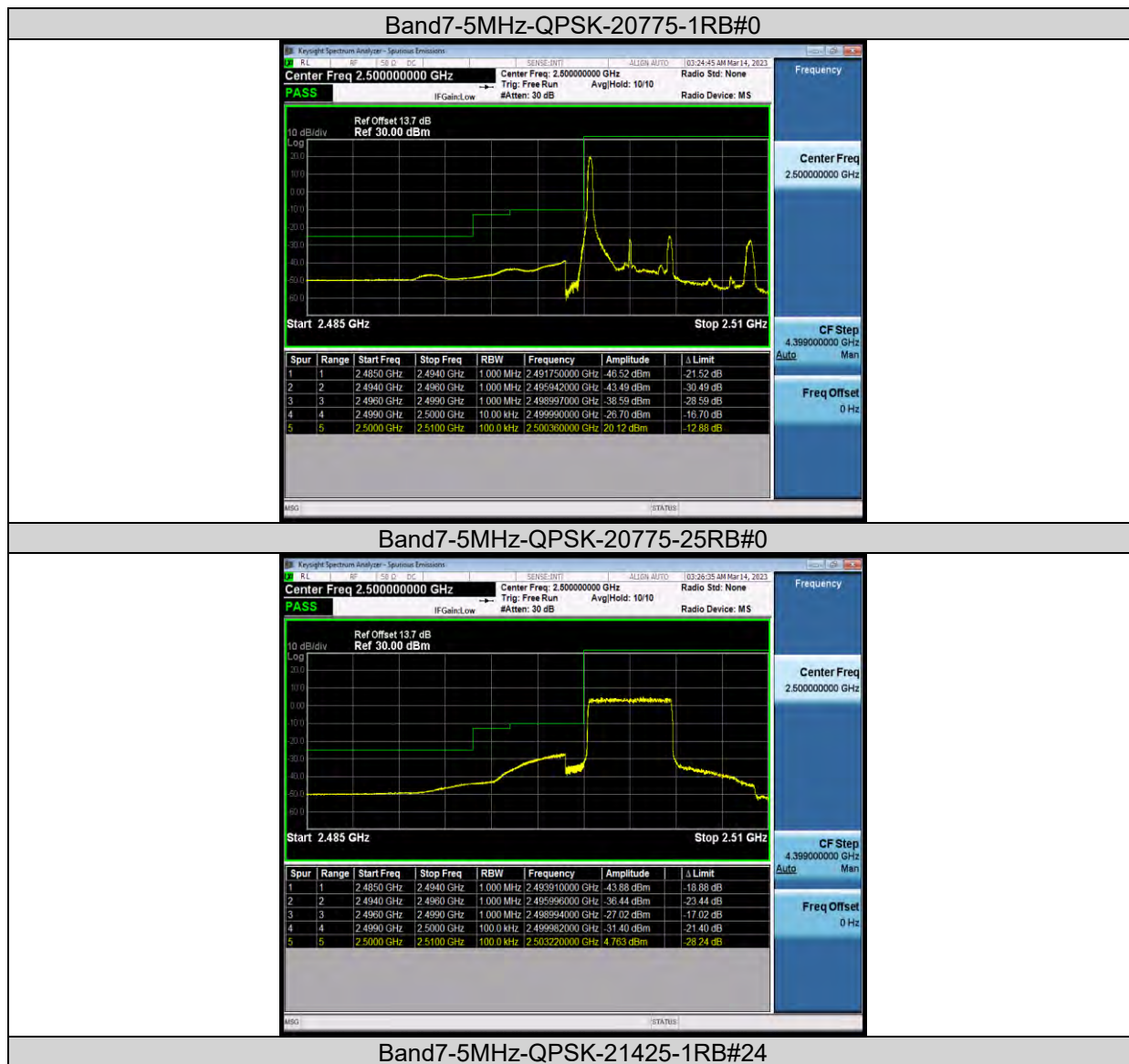


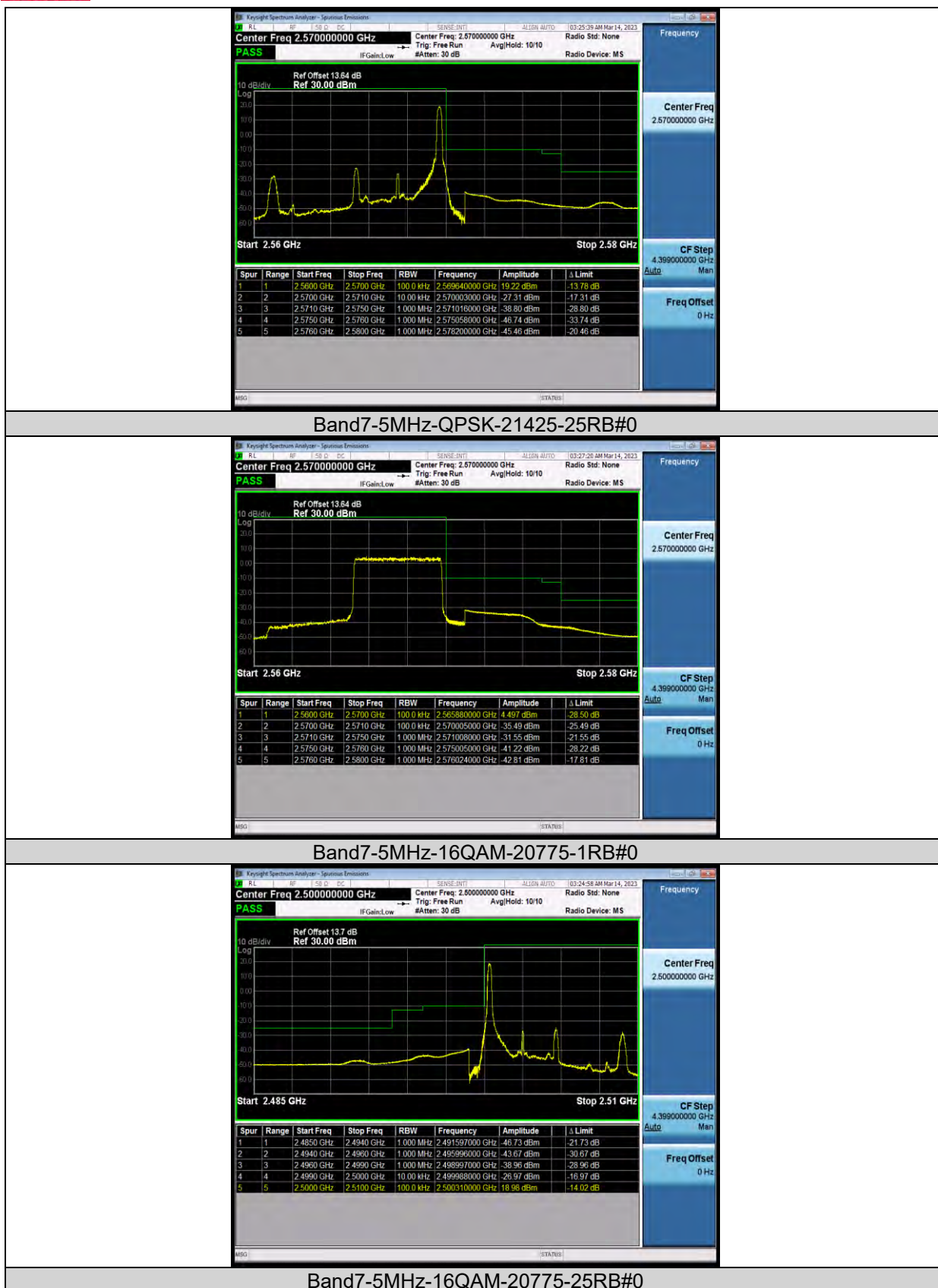
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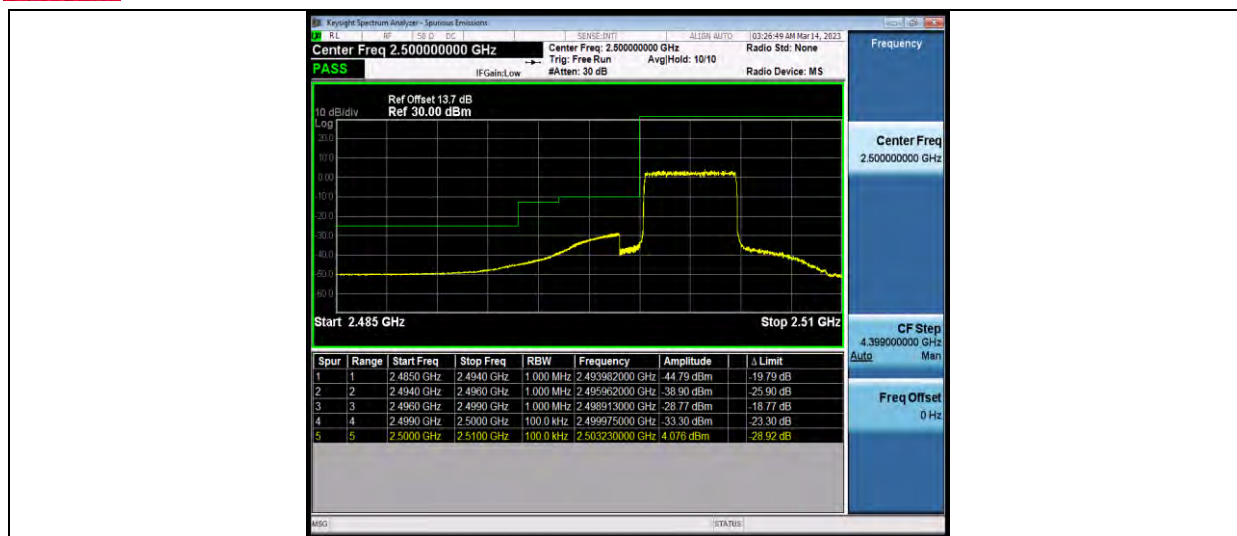
Test Report No.: W7L-P23030004RF06

Band7	20MHz	64QAM	20850	1RB#0	-47.38,-46.31,-43.90,-39.47	PASS
Band7	20MHz	64QAM	20850	100RB#0	-35.57,-31.50,-29.63,-33.56	PASS
Band7	20MHz	64QAM	21350	1RB#99	-42.43,-44.32,-45.54,-49.42	PASS
Band7	20MHz	64QAM	21350	100RB#0	-34.16,-30.65,-33.07,-47.78	PASS

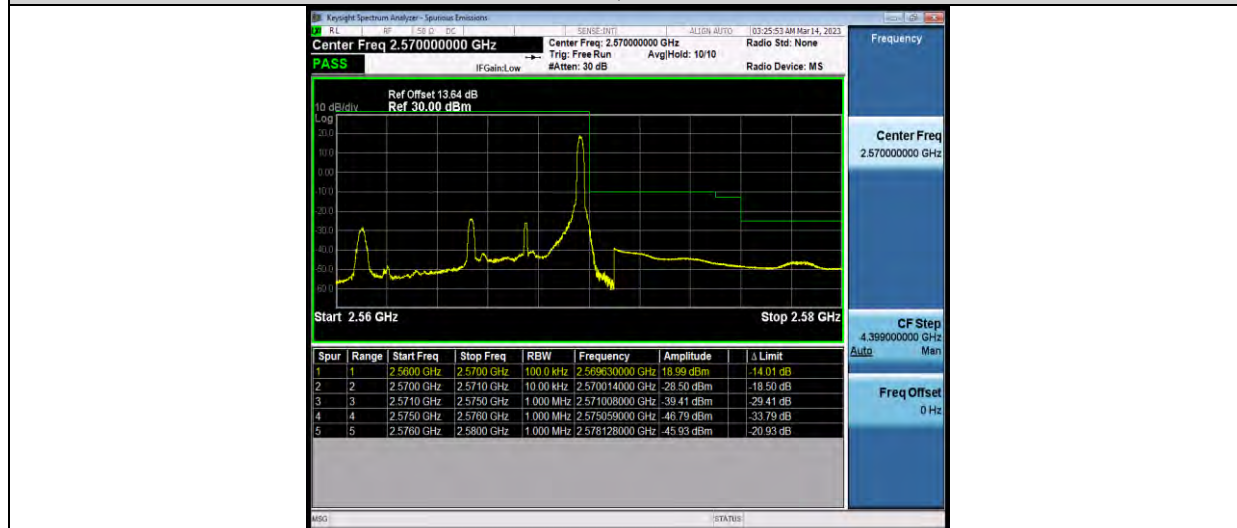
Test Graphs







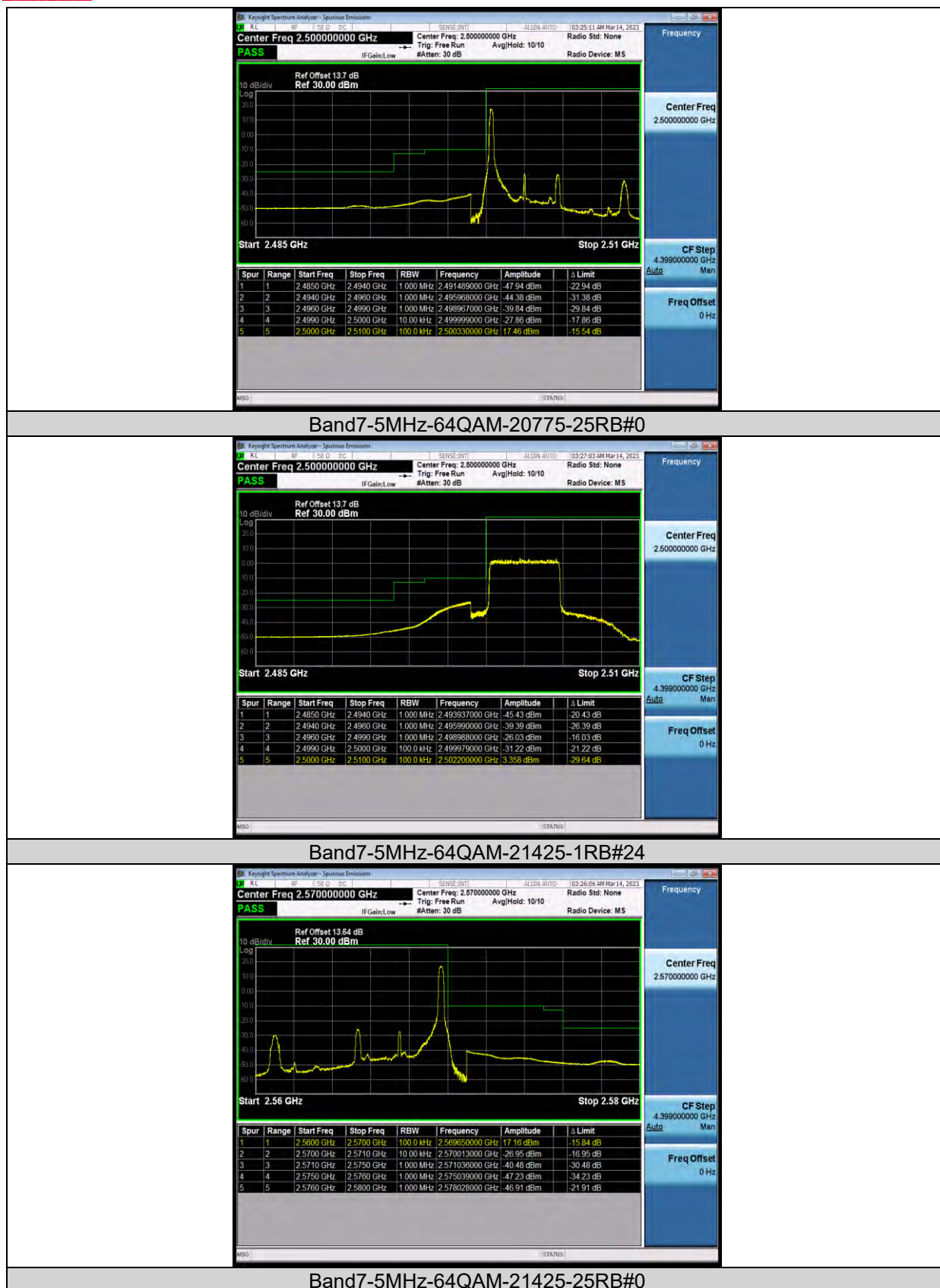
Band7-5MHz-16QAM-21425-1RB#24



Band7-5MHz-16QAM-21425-25RB#0

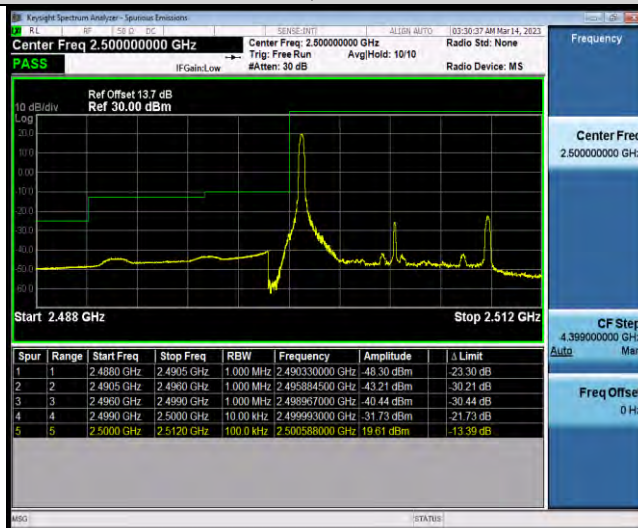


Band7-5MHz-64QAM-20775-1RB#0





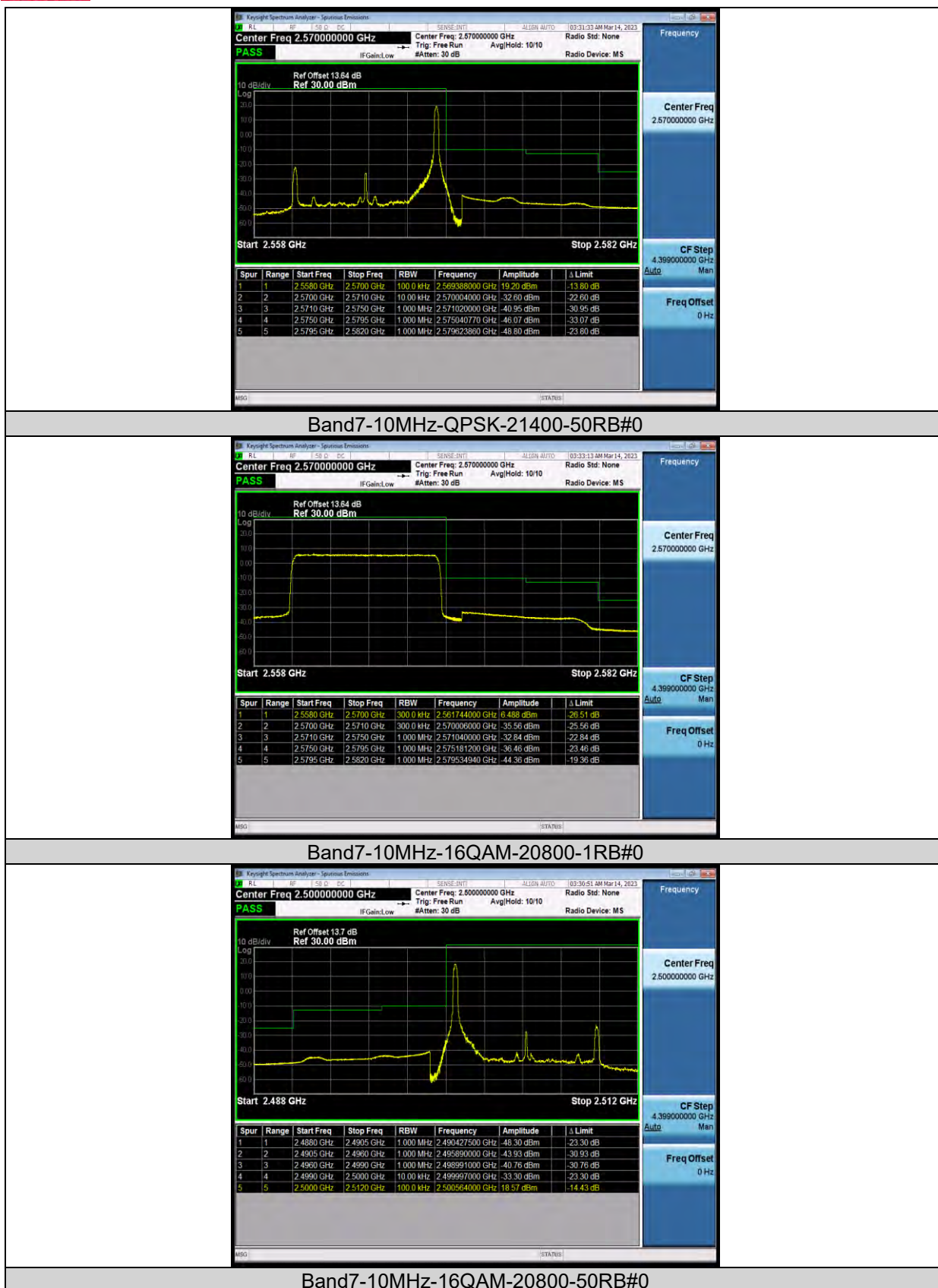
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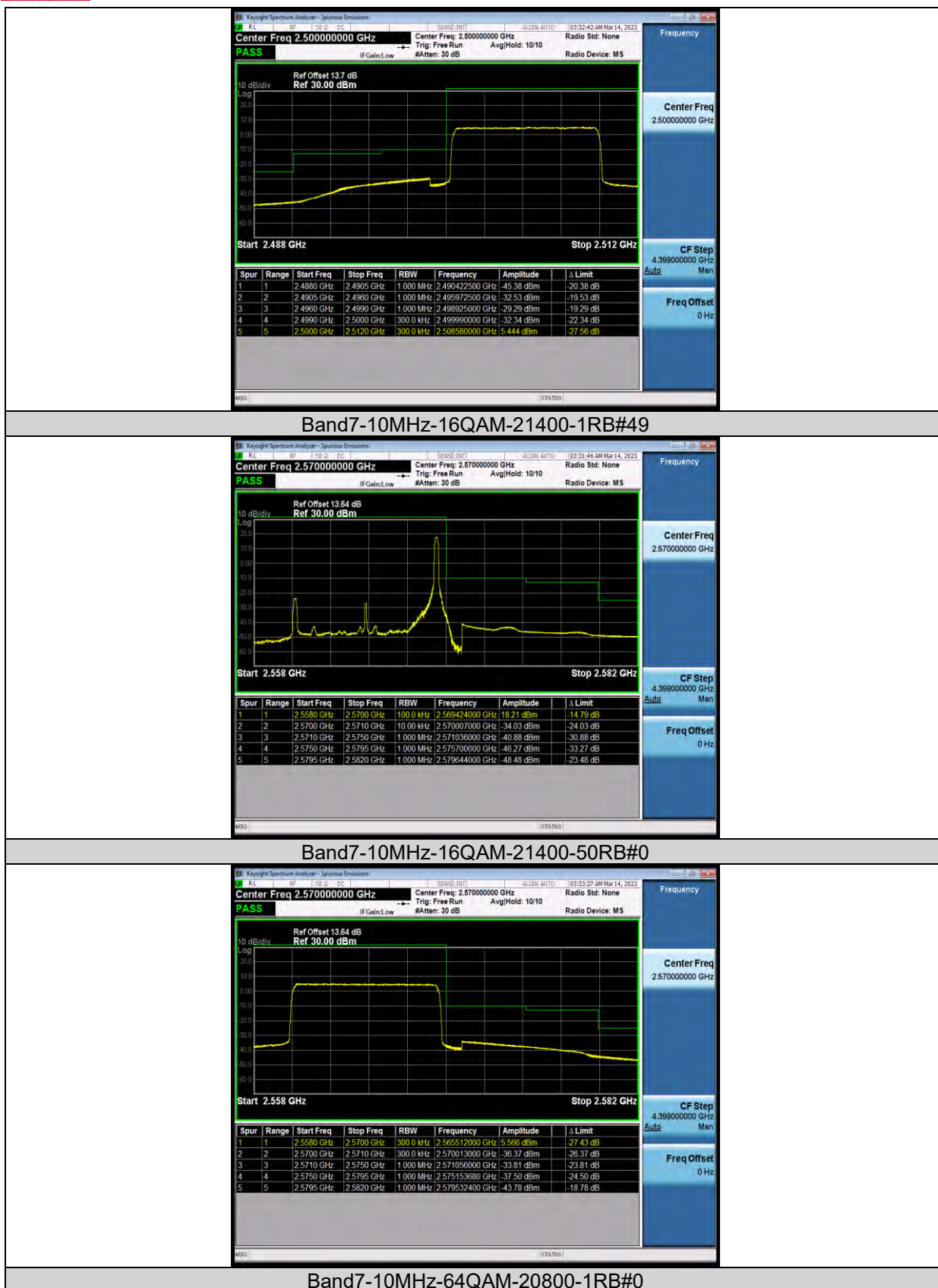


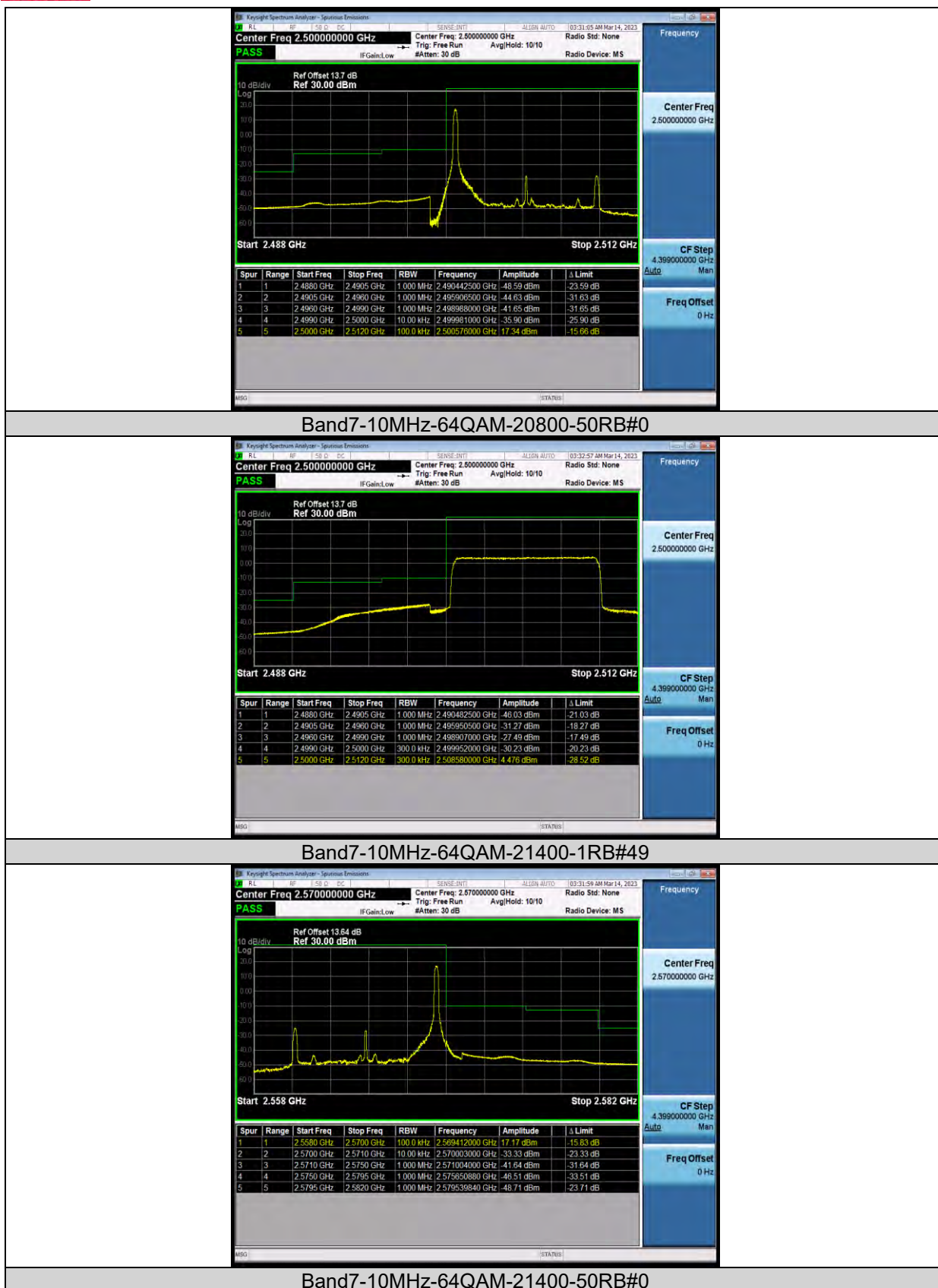
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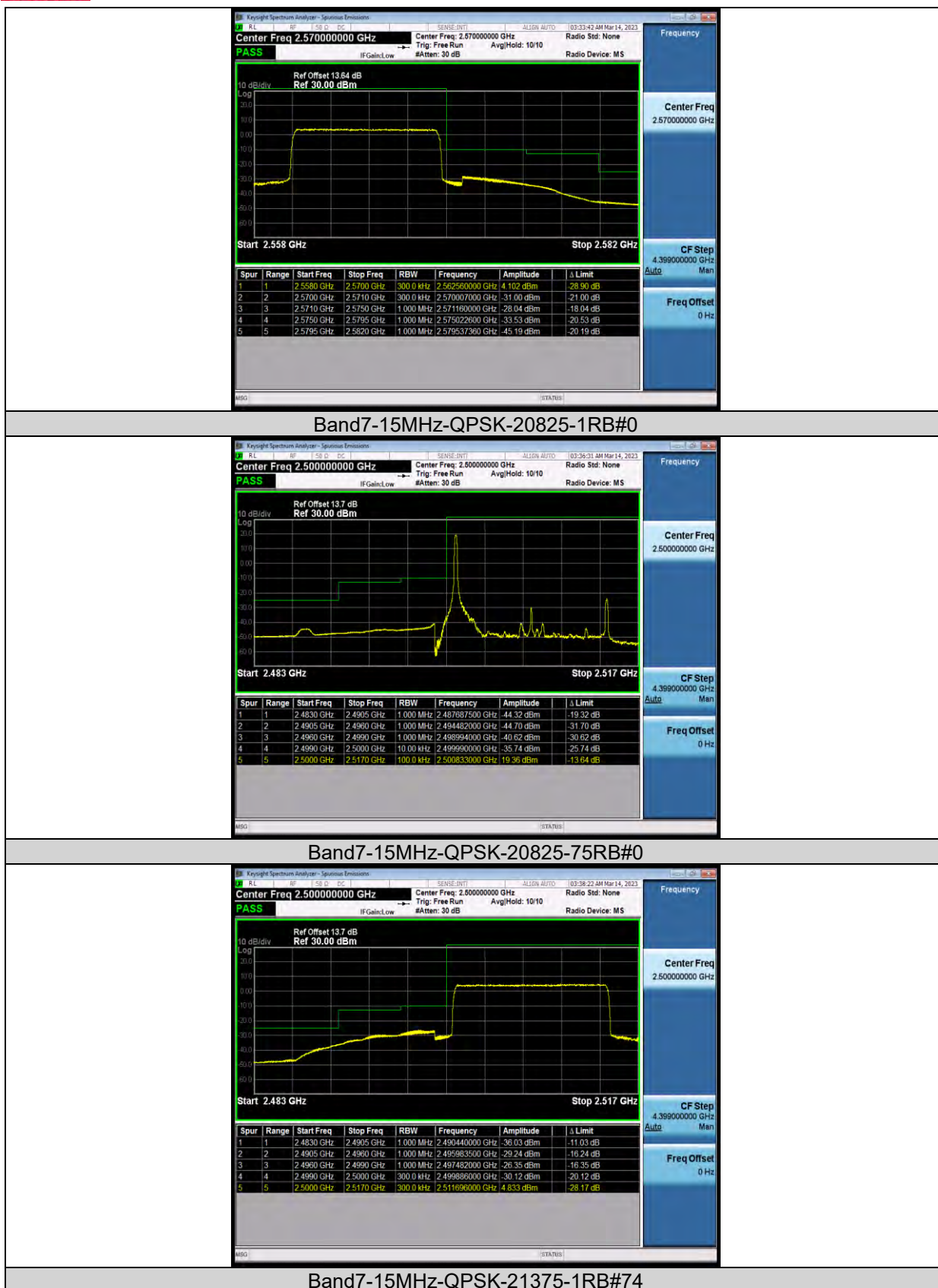


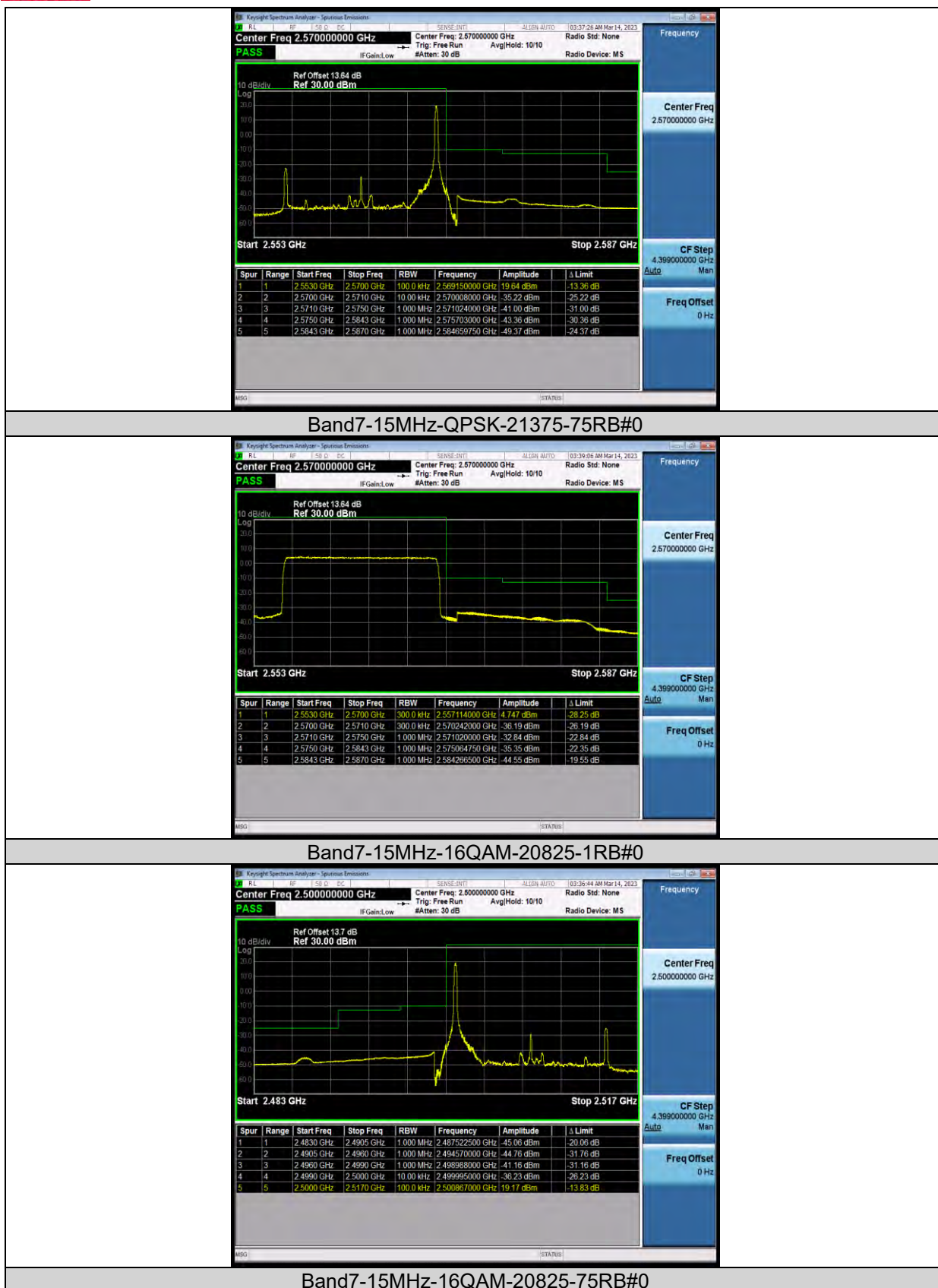
Band7-10MHz-QPSK-21400-1RB#49

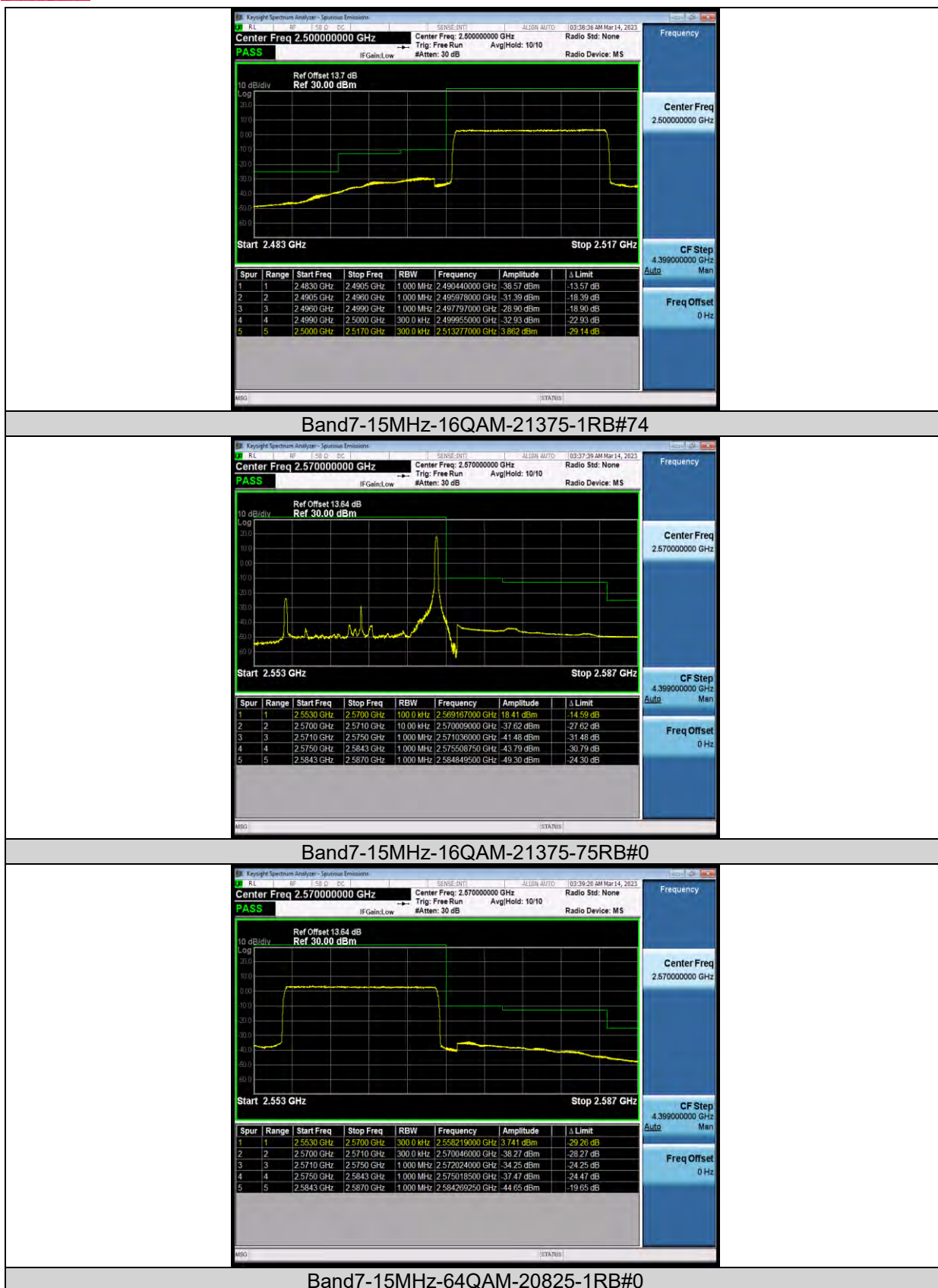


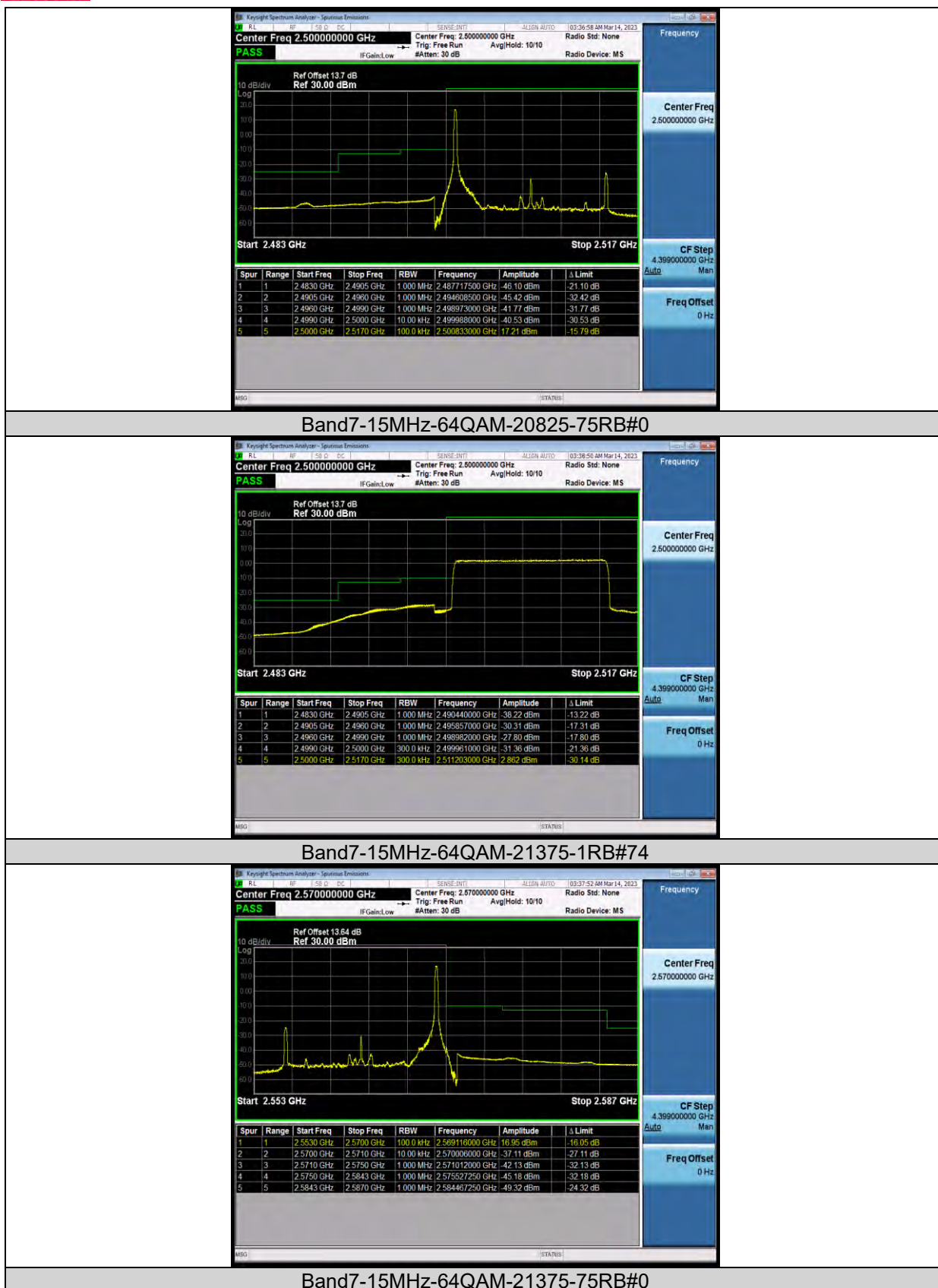


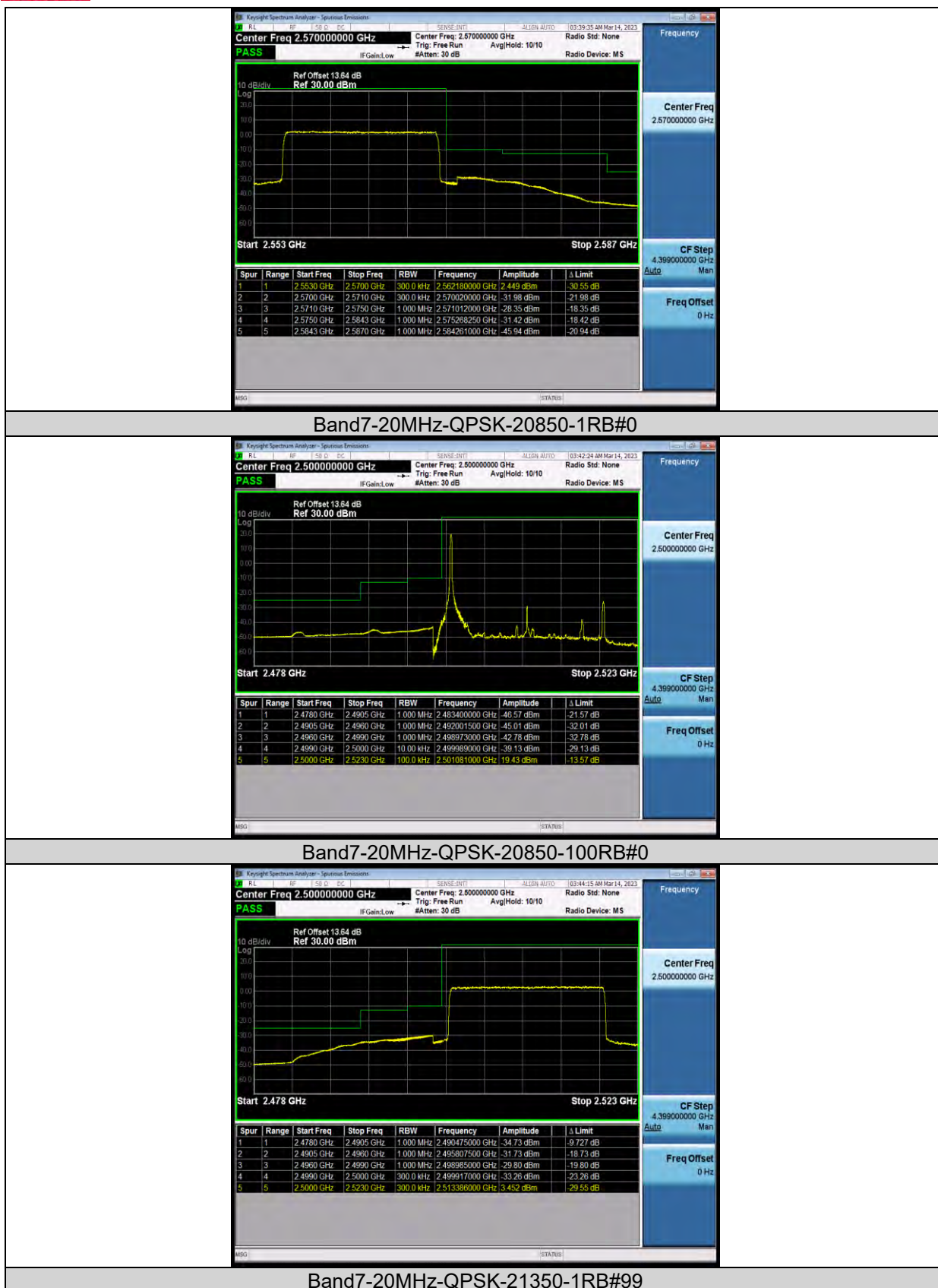


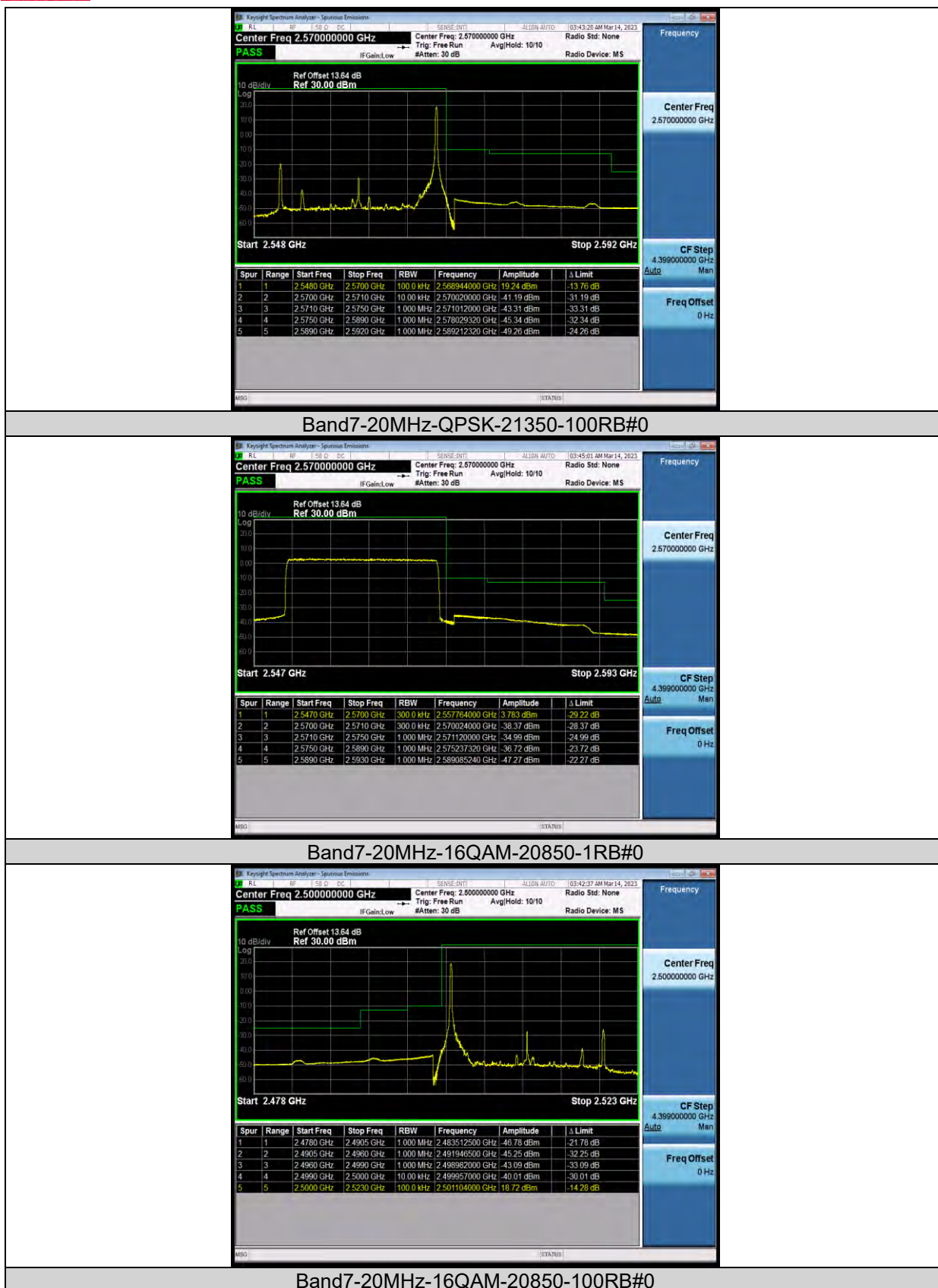


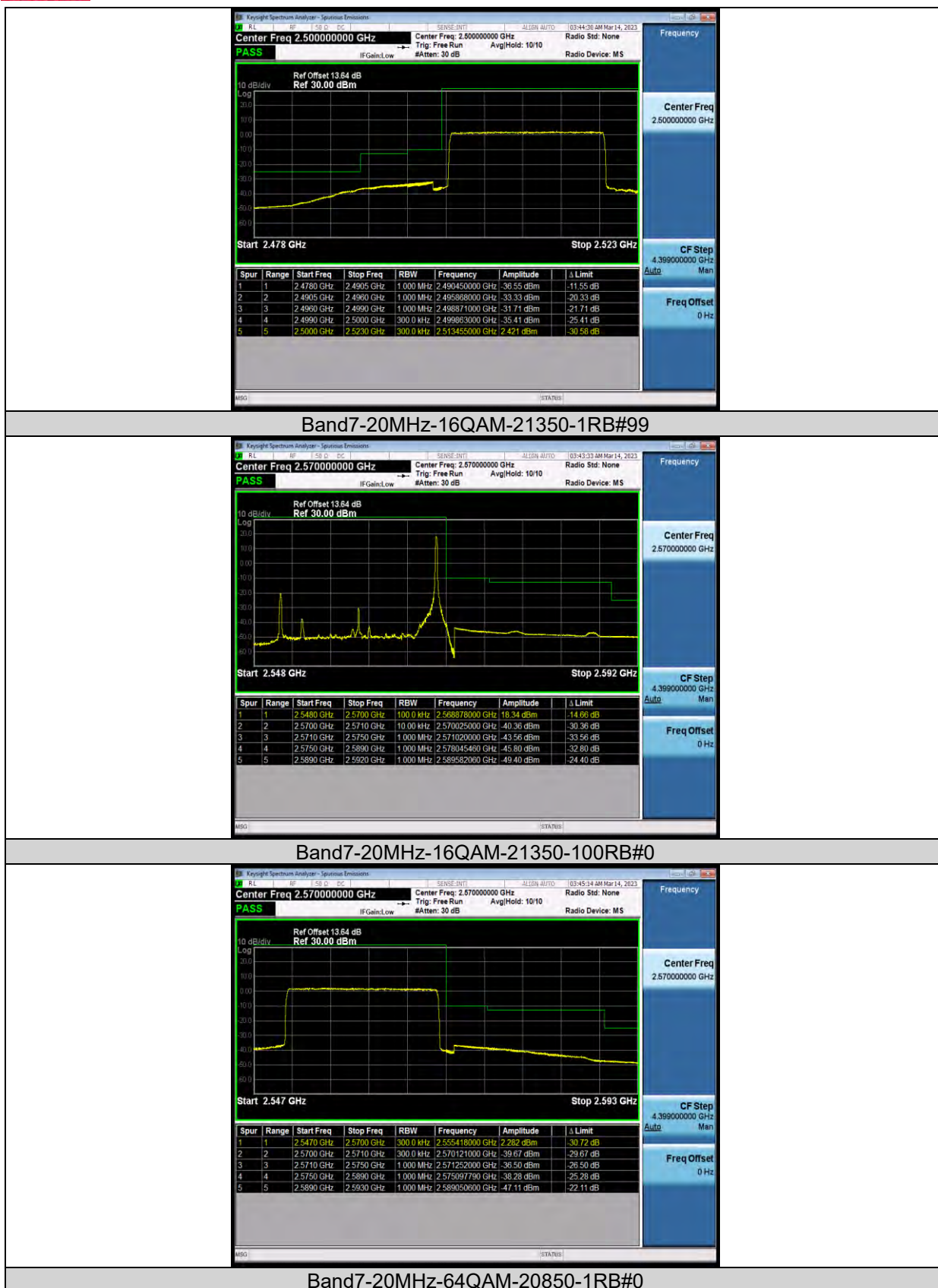










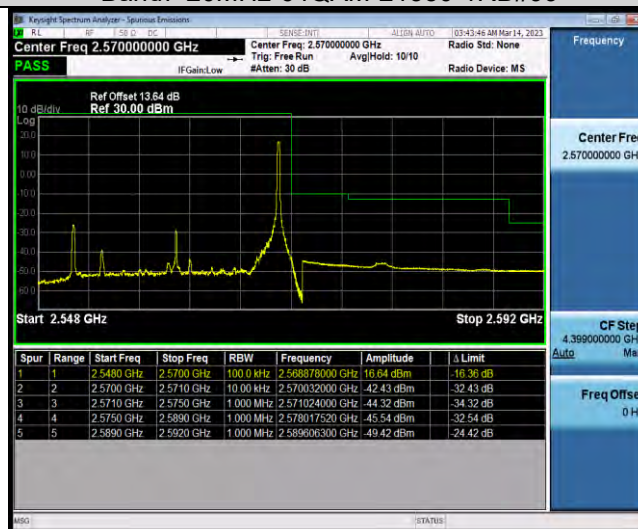




Band7-20MHz-64QAM-20850-100RB#0



Band7-20MHz-64QAM-21350-1RB#99



Band7-20MHz-64QAM-21350-100RB#0



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Test Report No.: W7L-P23030004RF06

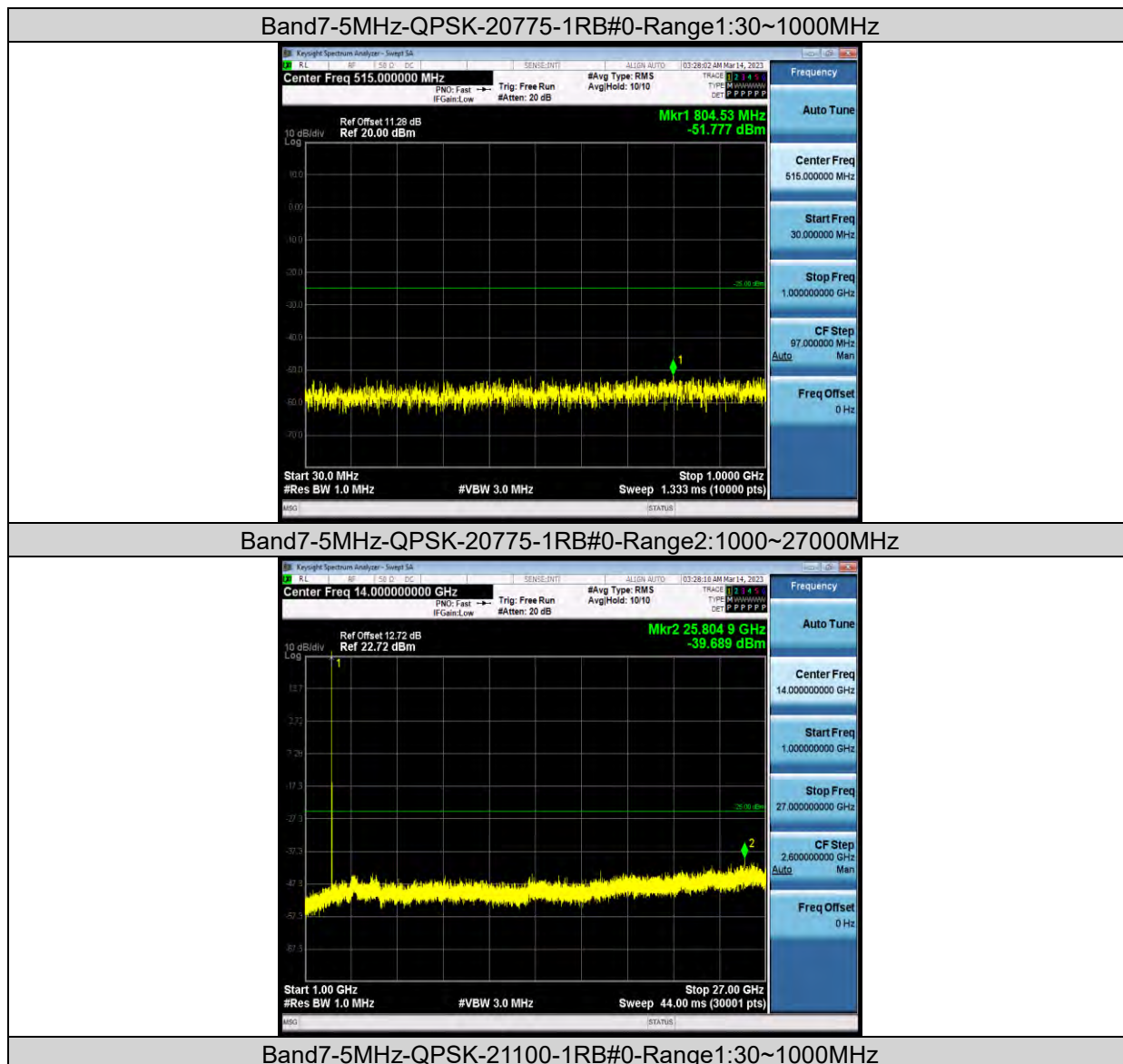


CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	Range1:30~1000MHz	-51.78	PASS
Band7	5MHz	QPSK	20775	1RB#0	Range2:1000~27000MHz	-39.69	PASS
Band7	5MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-50.3	PASS
Band7	5MHz	QPSK	21100	1RB#0	Range2:1000~27000MHz	-40.64	PASS
Band7	5MHz	QPSK	21425	1RB#0	Range1:30~1000MHz	-51.25	PASS
Band7	5MHz	QPSK	21425	1RB#0	Range2:1000~27000MHz	-40.51	PASS
Band7	10MHz	QPSK	20800	1RB#0	Range1:30~1000MHz	-51.08	PASS
Band7	10MHz	QPSK	20800	1RB#0	Range2:1000~27000MHz	-41.06	PASS
Band7	10MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-50.41	PASS
Band7	10MHz	QPSK	21100	1RB#0	Range2:1000~27000MHz	-40.94	PASS
Band7	10MHz	QPSK	21400	1RB#0	Range1:30~1000MHz	-50.99	PASS
Band7	10MHz	QPSK	21400	1RB#0	Range2:1000~27000MHz	-39.46	PASS
Band7	15MHz	QPSK	20825	1RB#0	Range1:30~1000MHz	-50.83	PASS
Band7	15MHz	QPSK	20825	1RB#0	Range2:1000~27000MHz	-40.36	PASS
Band7	15MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-50.61	PASS
Band7	15MHz	QPSK	21100	1RB#0	Range2:1000~27000MHz	-40.55	PASS
Band7	15MHz	QPSK	21375	1RB#0	Range1:30~1000MHz	-51.32	PASS
Band7	15MHz	QPSK	21375	1RB#0	Range2:1000~27000MHz	-40.67	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range1:30~1000MHz	-50.36	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range2:1000~27000MHz	-39.05	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-51.43	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range2:1000~27000MHz	-41.42	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range1:30~1000MHz	-50.14	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range2:1000~27000MHz	-39.85	PASS

Test Graphs

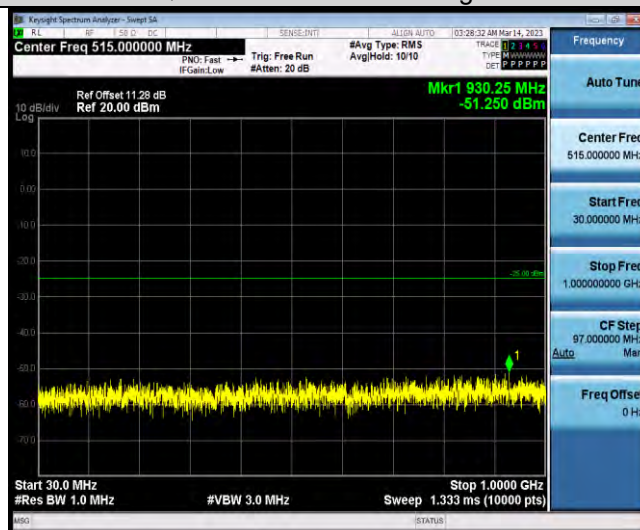




Band7-5MHz-QPSK-21100-1RB#0-Range2:1000~27000MHz



Band7-5MHz-QPSK-21425-1RB#0-Range1:30~1000MHz



Band7-5MHz-QPSK-21425-1RB#0-Range2:1000~27000MHz

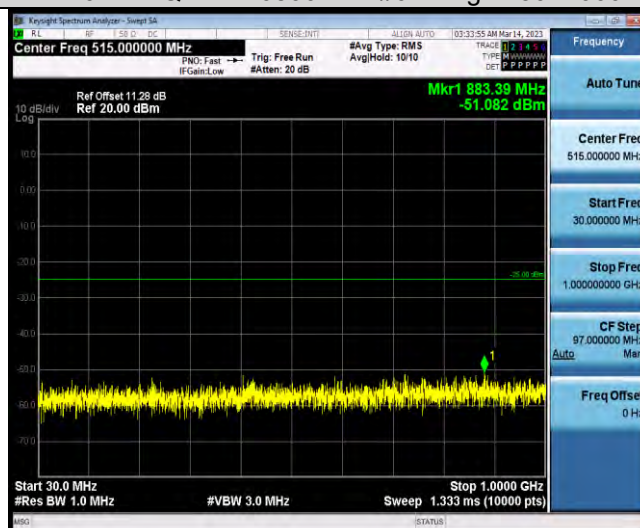


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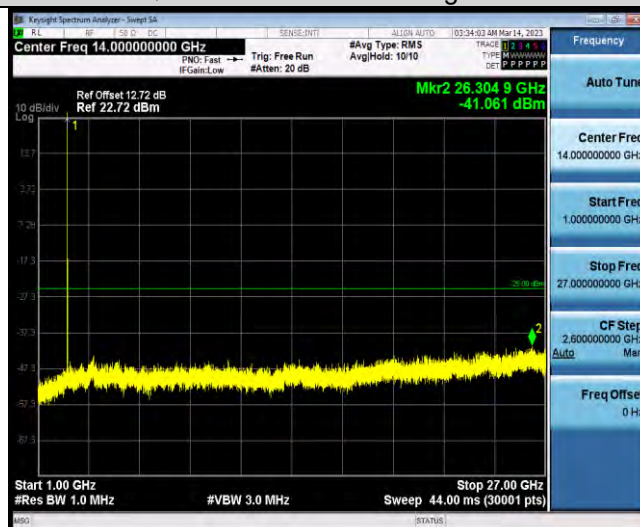
Test Report No.: W7L-P23030004RF06



Band7-10MHz-QPSK-20800-1RB#0-Range1:30~1000MHz



Band7-10MHz-QPSK-20800-1RB#0-Range2:1000~27000MHz



Band7-10MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



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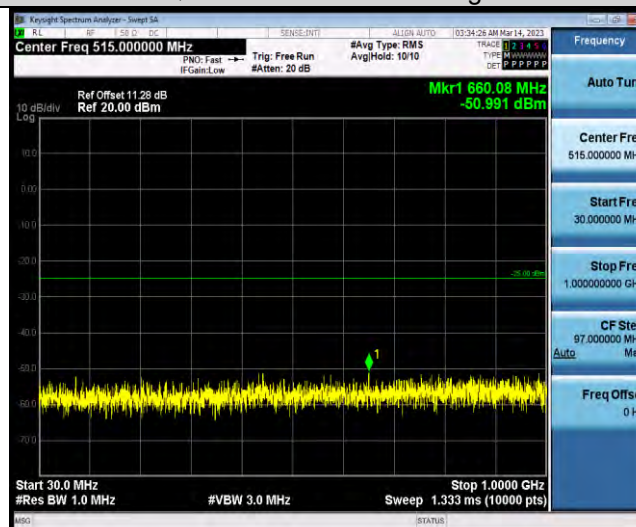
Test Report No.: W7L-P23030004RF06



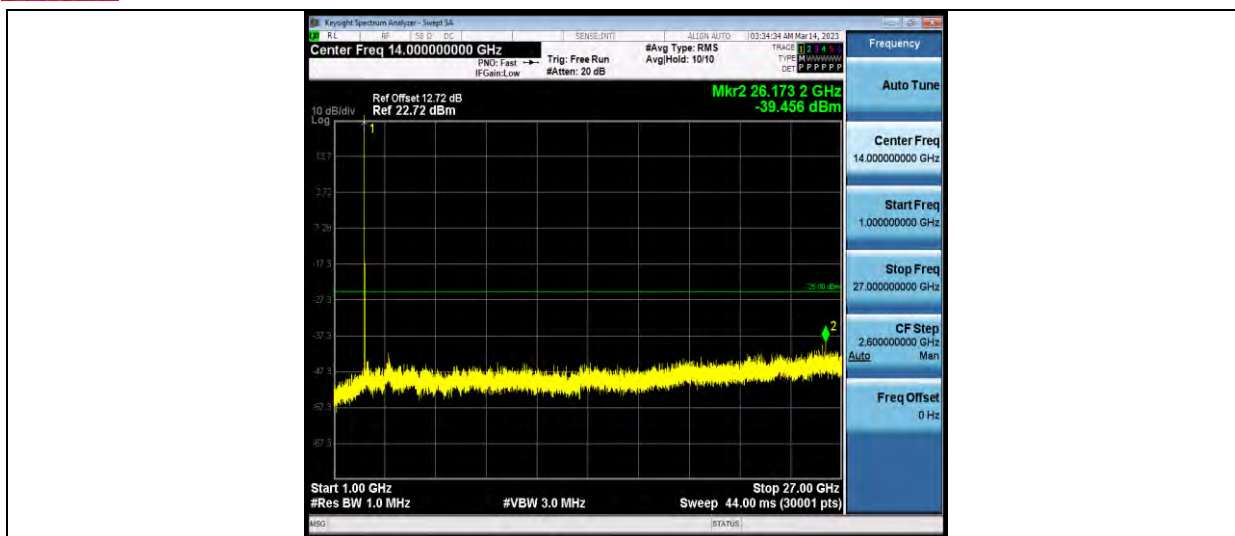
Band7-10MHz-QPSK-21100-1RB#0-Range2:1000~27000MHz



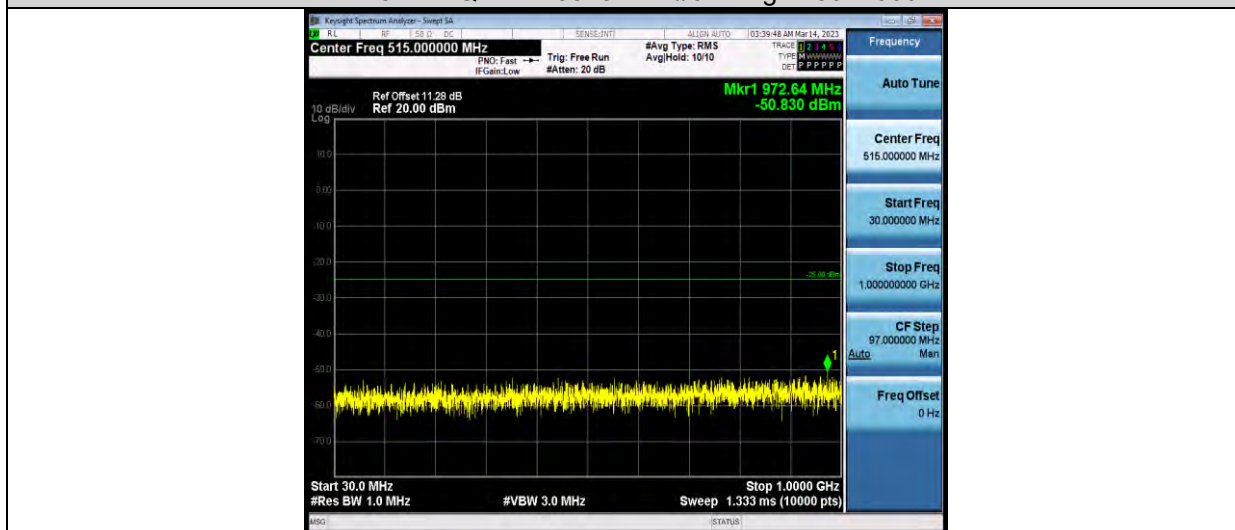
Band7-10MHz-QPSK-21400-1RB#0-Range1:30~1000MHz



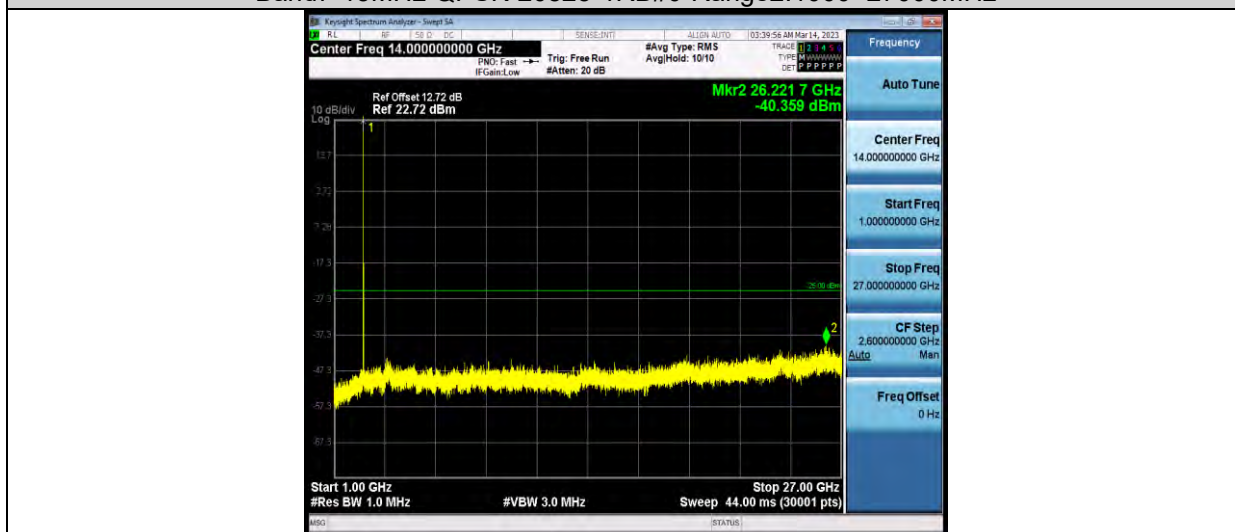
Band7-10MHz-QPSK-21400-1RB#0-Range2:1000~27000MHz



Band7-15MHz-QPSK-20825-1RB#0-Range1:30~1000MHz



Band7-15MHz-QPSK-20825-1RB#0-Range2:1000~27000MHz

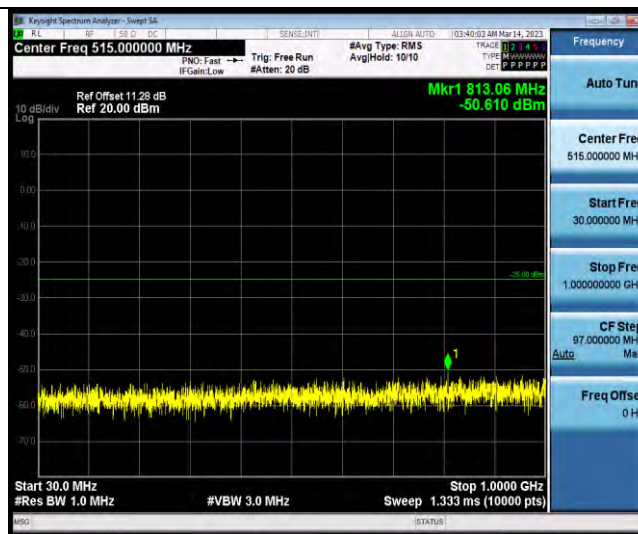


Band7-15MHz-QPSK-21100-1RB#0-Range1:30~1000MHz

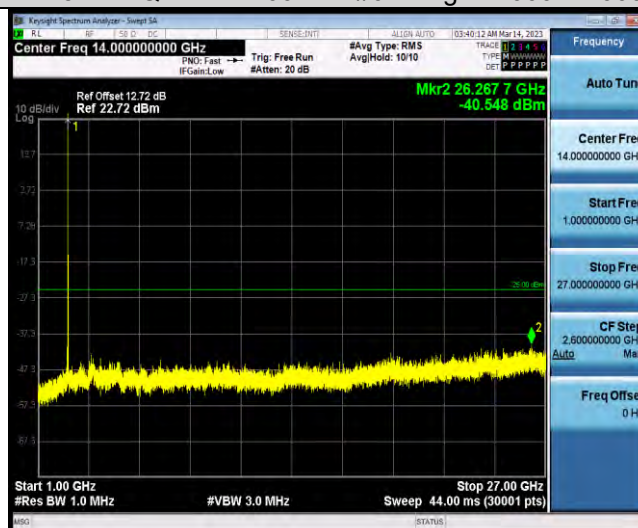


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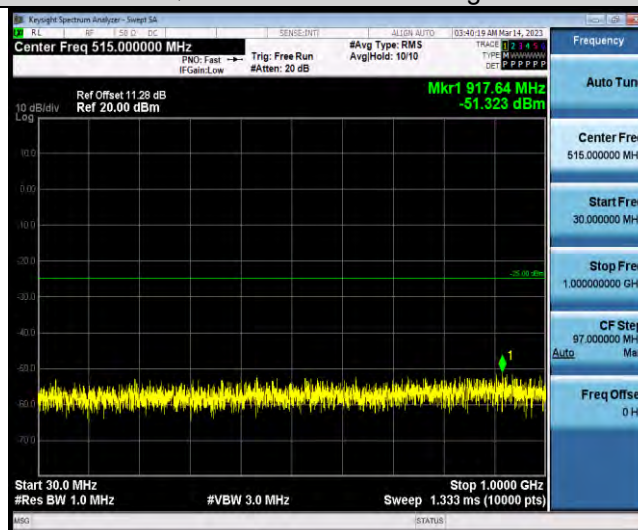
Test Report No.: W7L-P23030004RF06



Band7-15MHz-QPSK-21100-1RB#0-Range2:1000~27000MHz



Band7-15MHz-QPSK-21375-1RB#0-Range1:30~1000MHz



Band7-15MHz-QPSK-21375-1RB#0-Range2:1000~27000MHz

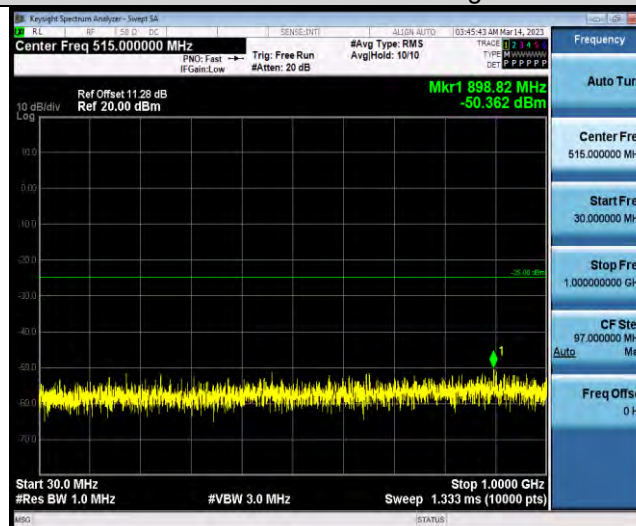


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Test Report No.: W7L-P23030004RF06



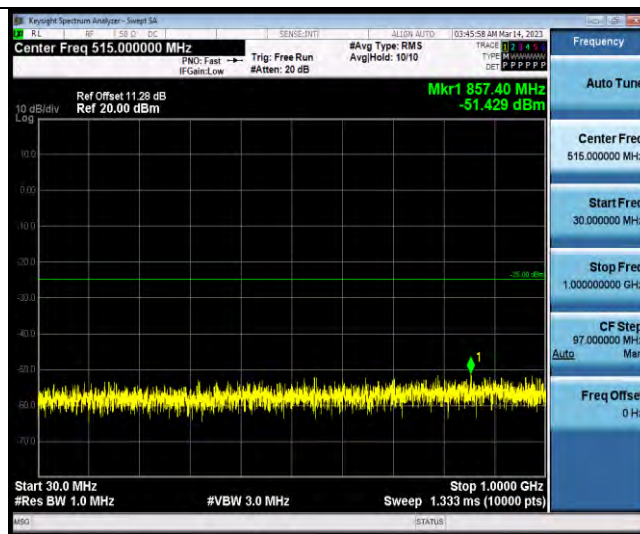
Band7-20MHz-QPSK-20850-1RB#0-Range1:30~1000MHz



Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~27000MHz



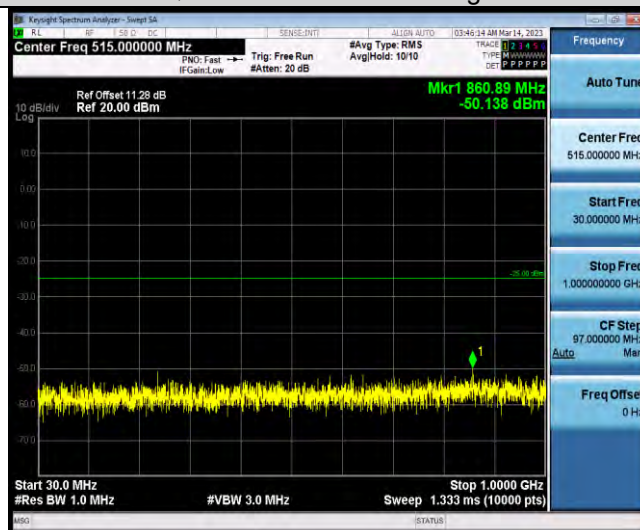
Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~27000MHz



Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz



Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~27000MHz



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