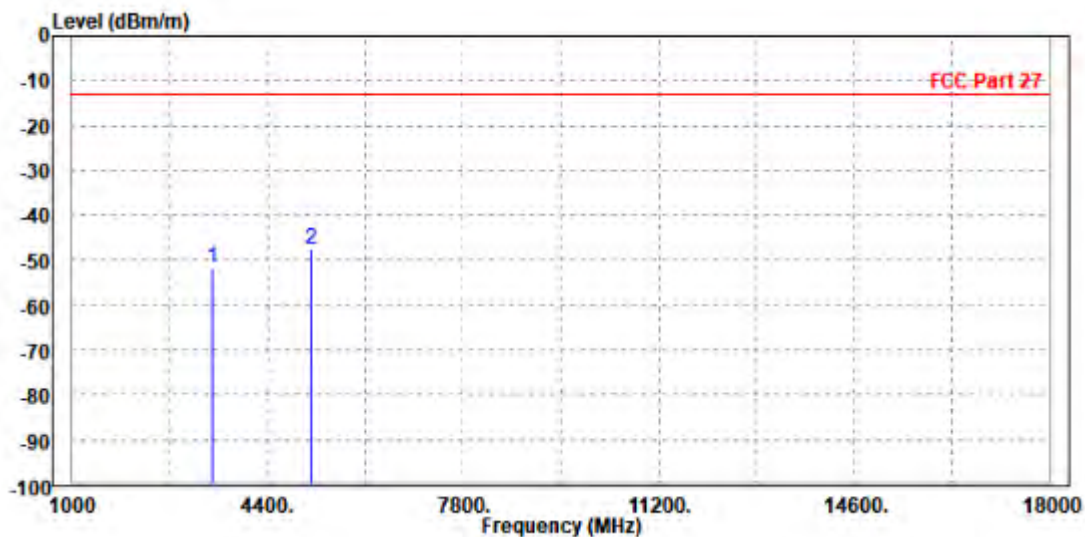


CHANNEL BANDWIDTH: 20MHz / QPSK

CH132072

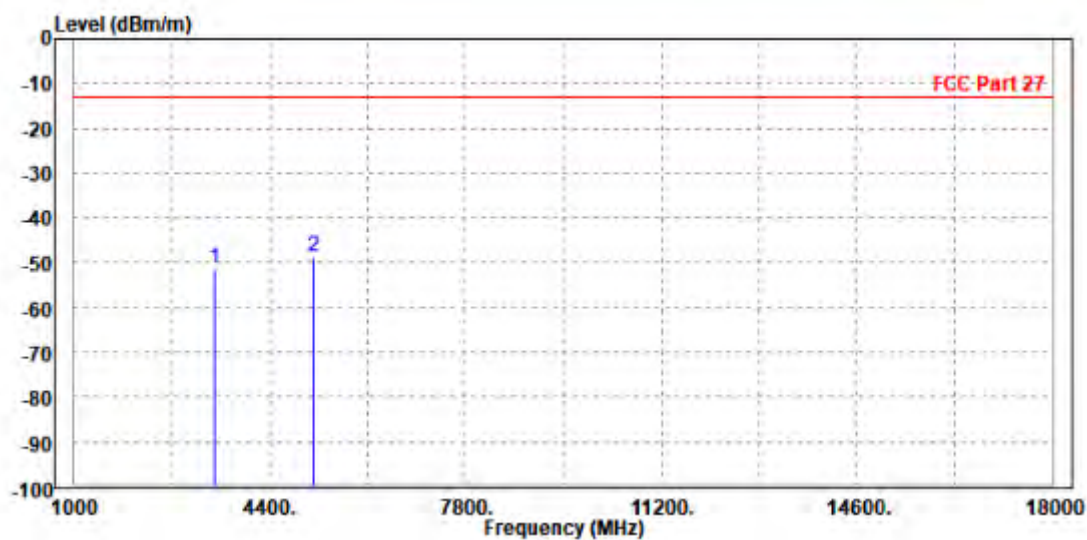
MODE	TX channel 132072	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3440.000	-51.59	-60.11	-13.00	-38.59	8.52	Peak	Horizontal
2 PP	5165.000	-47.61	-58.91	-13.00	-34.61	11.30	Peak	Horizontal



MODE	TX channel 132072	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3448.000	-51.26	-59.92	-13.00	-38.26	8.66	Peak	Vertical
2 PP	5160.000	-48.65	-60.33	-13.00	-35.65	11.68	Peak	Vertical



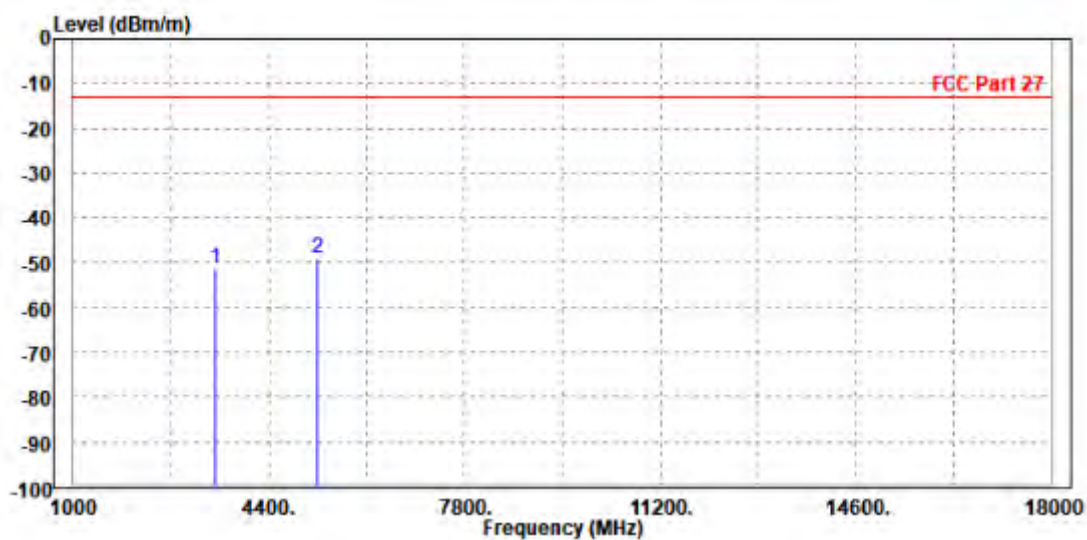


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CH132322

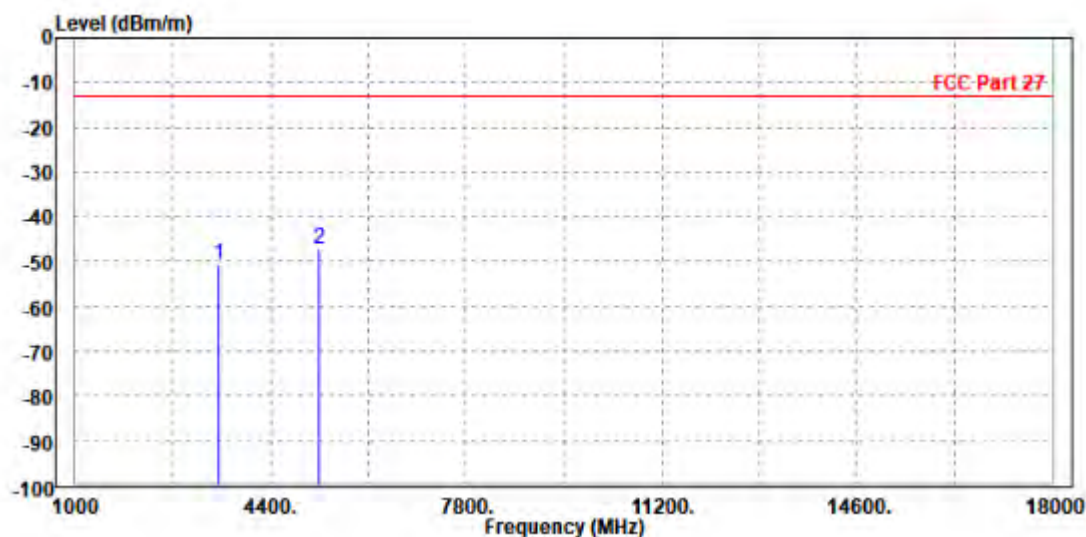
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3482.000	-51.15	-59.70	-13.00	-38.15	8.55	Peak	Horizontal
2 PP	5235.000	-49.06	-60.47	-13.00	-36.06	11.41	Peak	Horizontal



MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

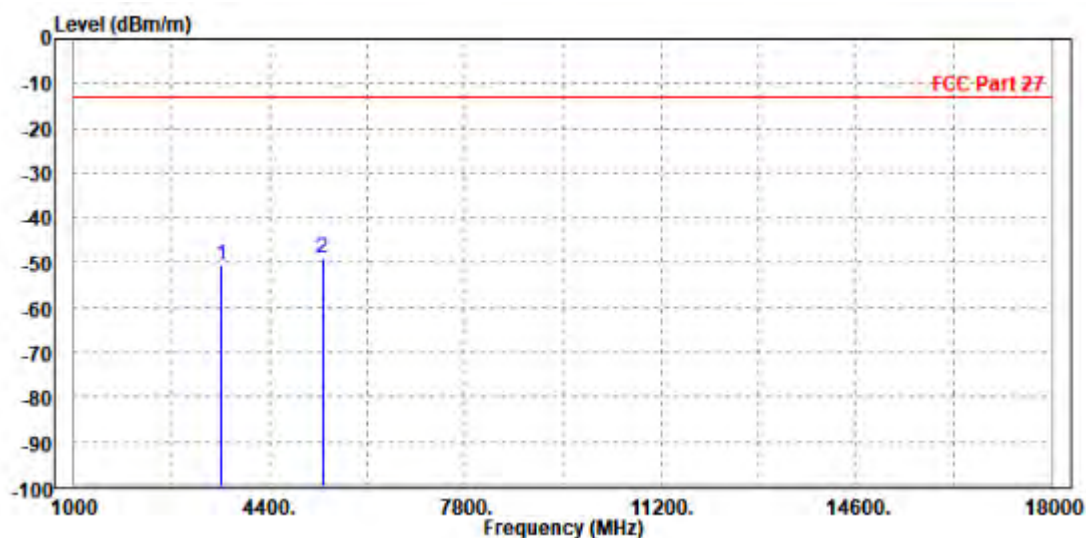
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3490.000	-50.71	-59.35	-13.00	-37.71	8.64	Peak	Vertical
2 PP	5233.000	-47.01	-58.83	-13.00	-34.01	11.82	Peak	Vertical



CH132572

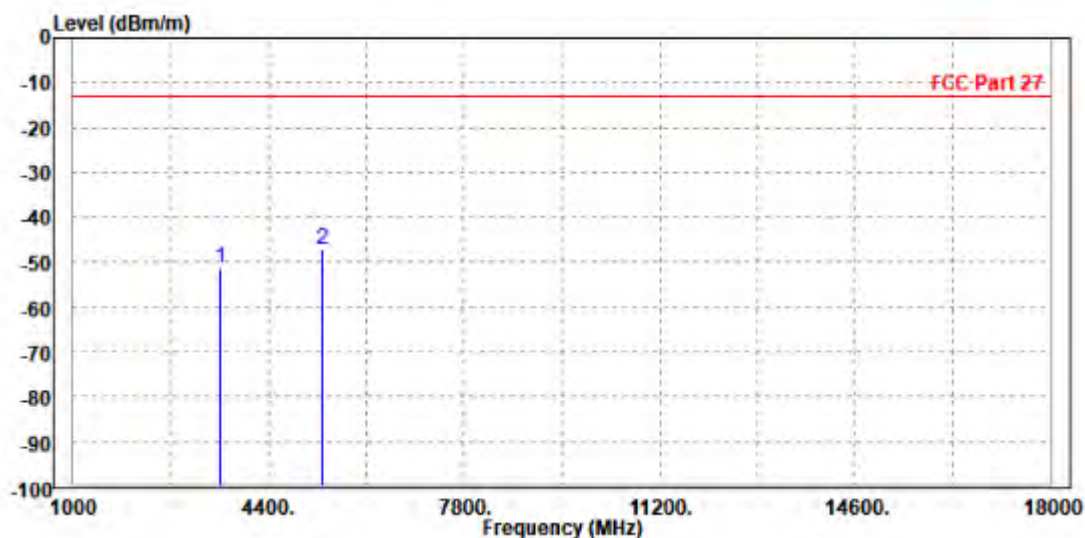
MODE	TX channel 132572	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3550.000	-50.62	-59.14	-13.00	-37.62	8.52	Peak	Horizontal
2 PP	5317.500	-48.96	-60.49	-13.00	-35.96	11.53	Peak	Horizontal



MODE	TX channel 132572	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3545.000	-51.39	-60.03	-13.00	-38.39	8.64	Peak	Vertical
2 PP	5318.000	-46.97	-58.96	-13.00	-33.97	11.99	Peak	Vertical

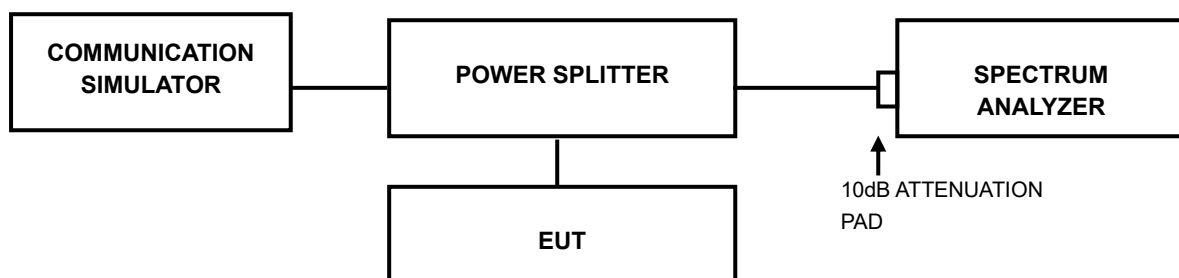


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



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3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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5 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:

Shenzhen EMC/RF Lab:

Tel: +86-755-88696566

Fax: +86-755-88696577

Email: customerservice.sw@cn.bureauveritas.com

Web Site: www.adt.com.tw

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



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6 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.

7 APPENDIX

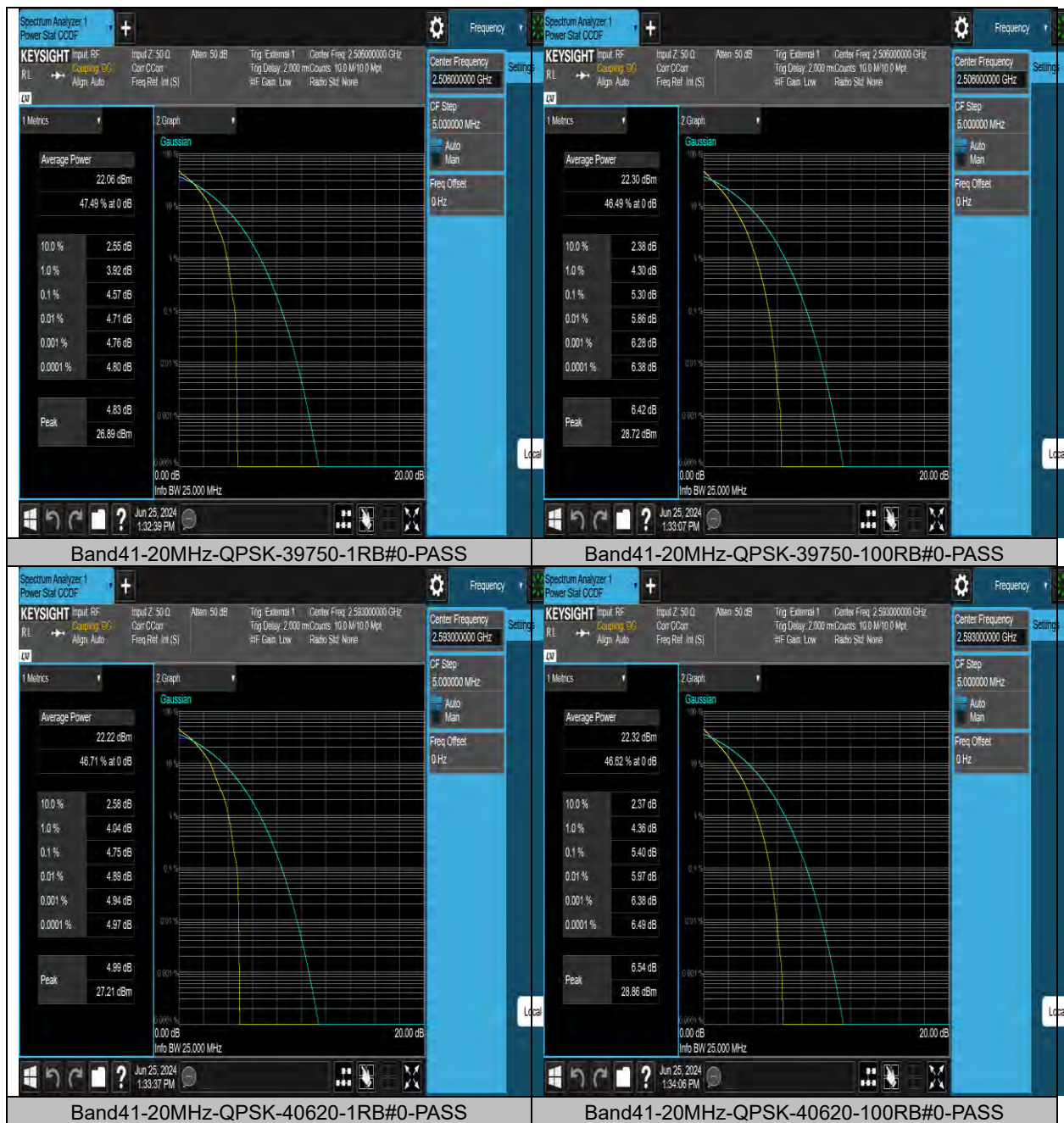
LTE BAND41 (INCLUDING LTE BAND38).

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	1RB#0	4.57	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	5.30	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	4.75	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.40	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	4.86	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	5.50	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	5.37	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	6.10	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	5.57	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	6.21	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	5.72	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	6.30	13	PASS

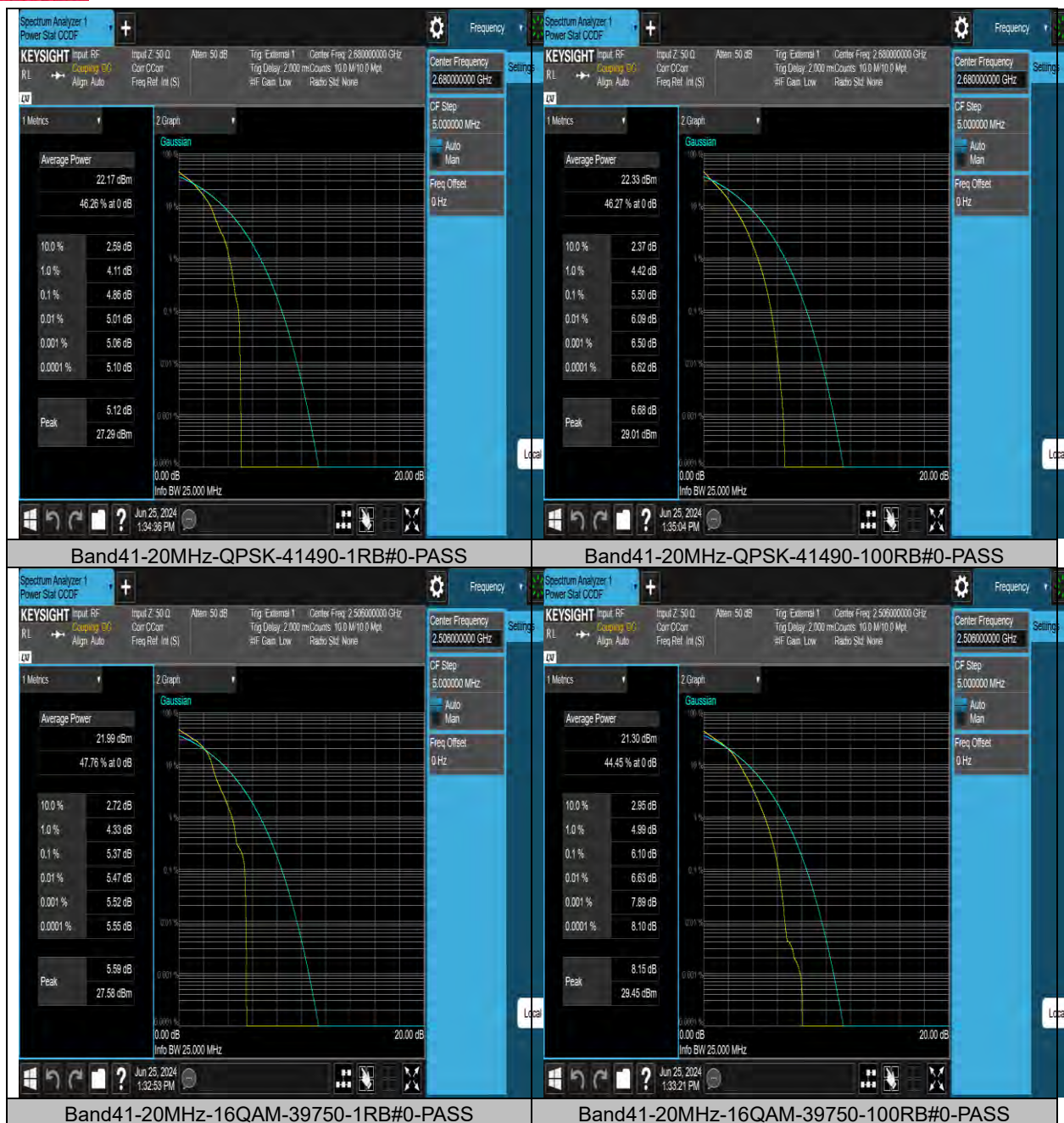
Test Graphs





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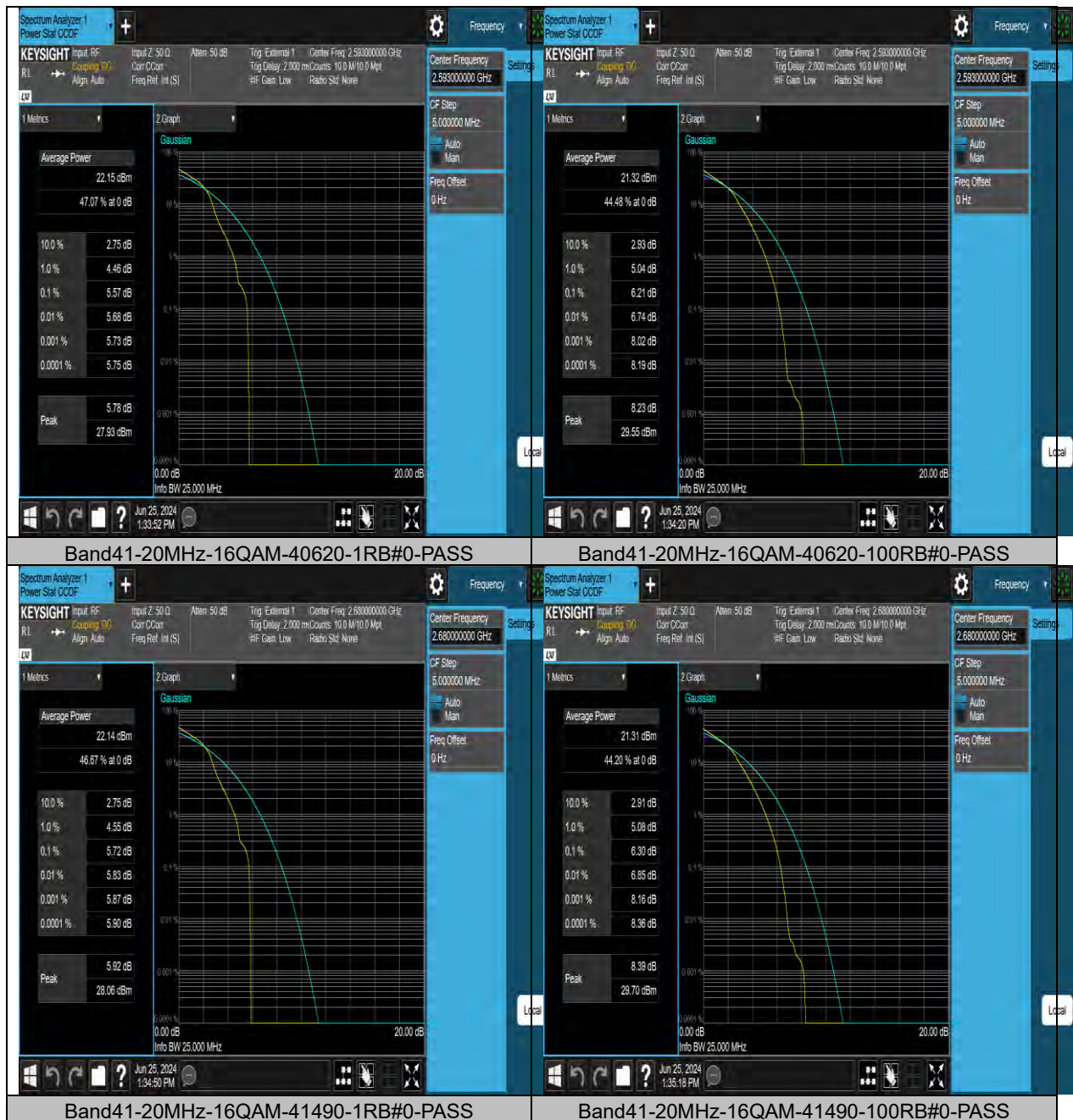
Test Report No.: W7L-P24100002RF08





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Test Report No.: W7L-P24100002RF08

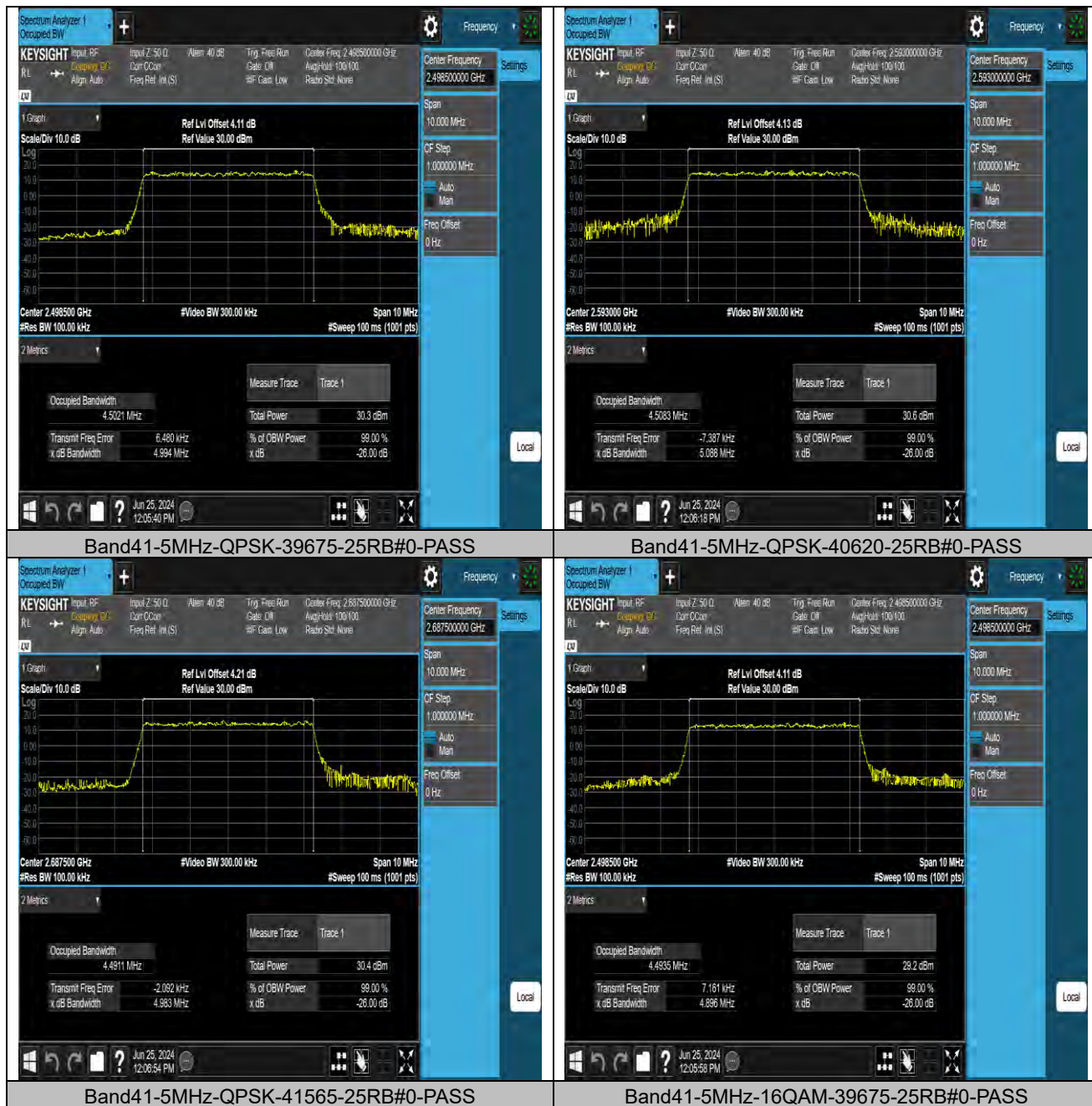


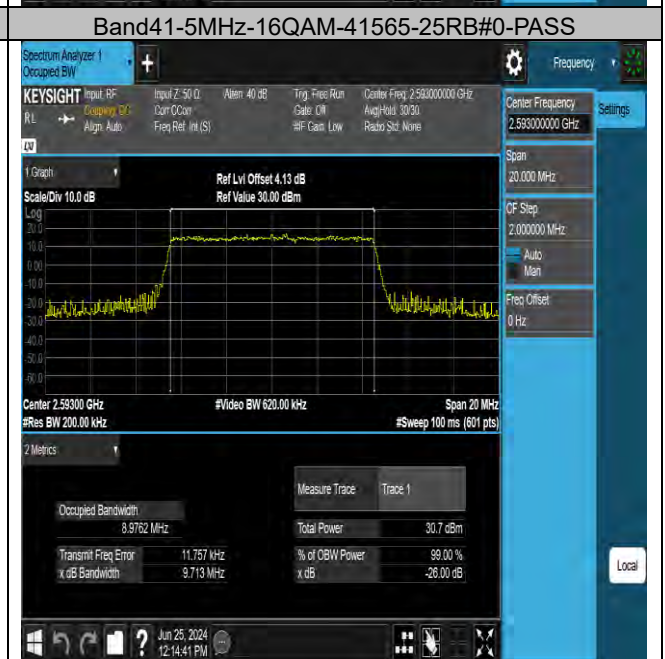
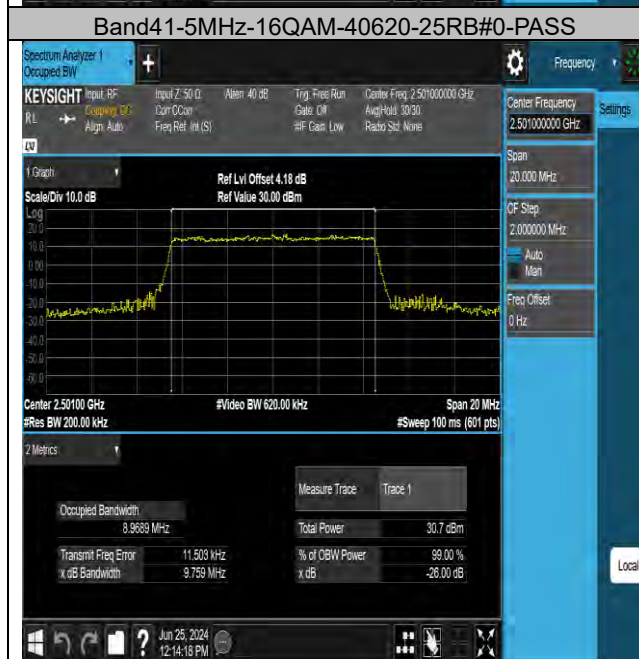
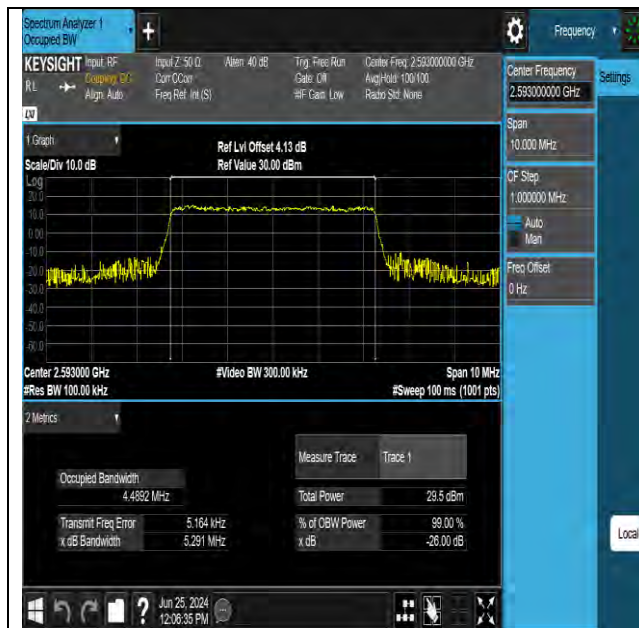
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.5021	4.994	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.5083	5.088	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4911	4.983	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.4935	4.896	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4892	5.291	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4867	4.920	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9689	9.759	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9762	9.713	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.0028	9.751	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9501	9.771	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9589	9.716	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9750	9.815	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.469	14.65	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.465	14.62	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.457	14.56	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.490	14.62	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.479	14.66	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.459	14.59	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.939	19.35	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.978	19.38	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.966	19.37	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.950	19.24	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.935	19.33	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.927	19.33	PASS

Test Graphs

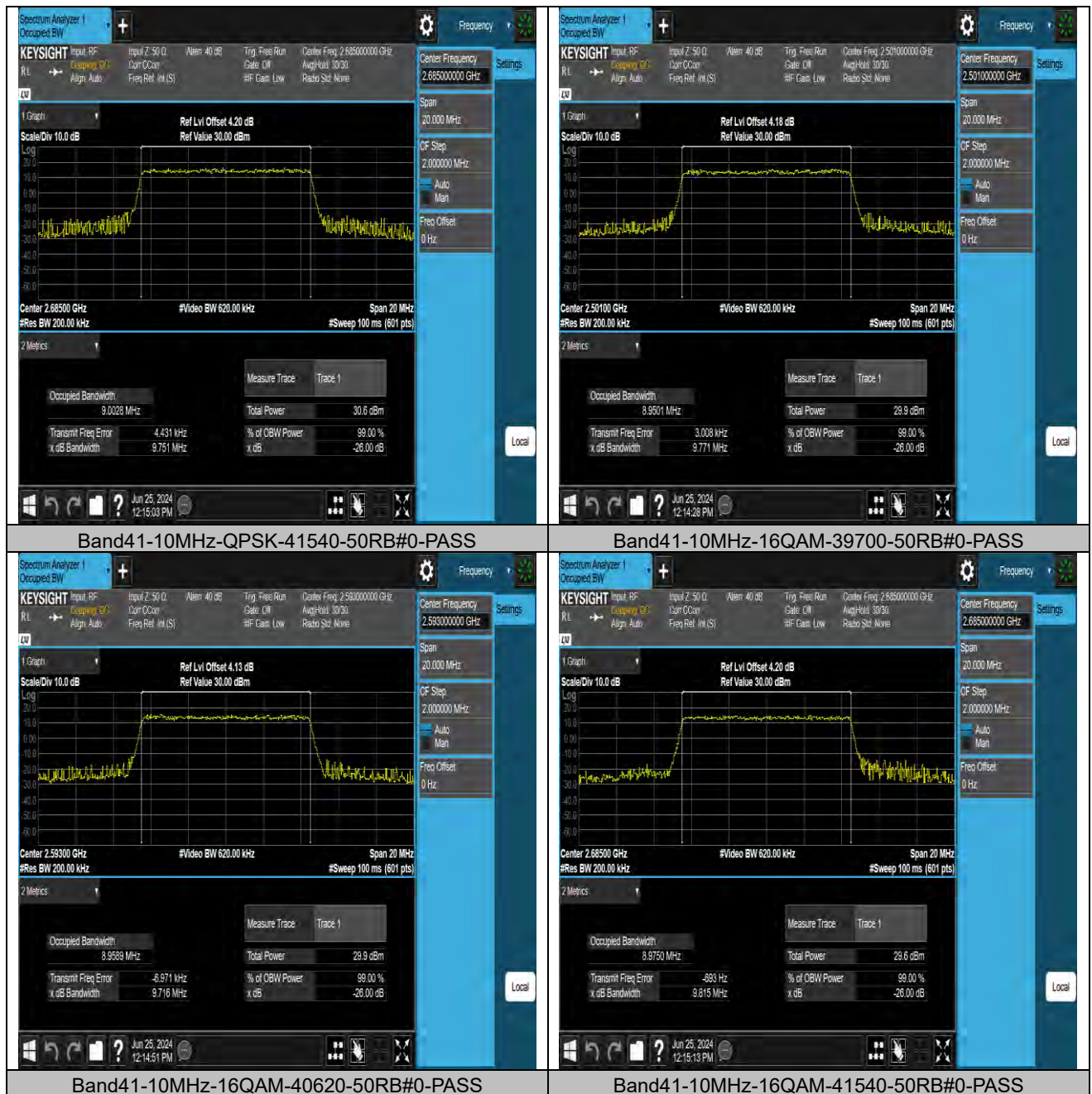


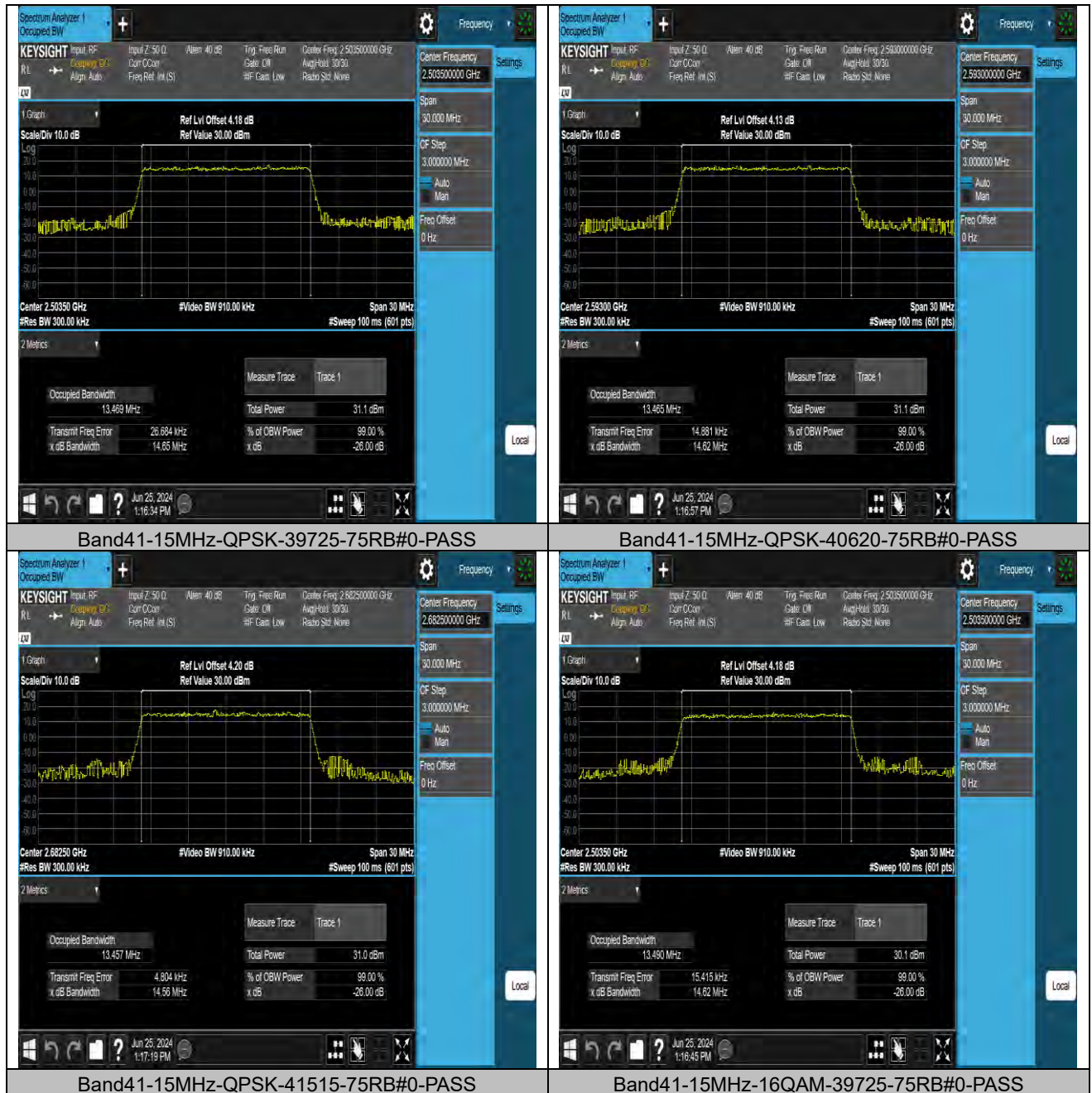




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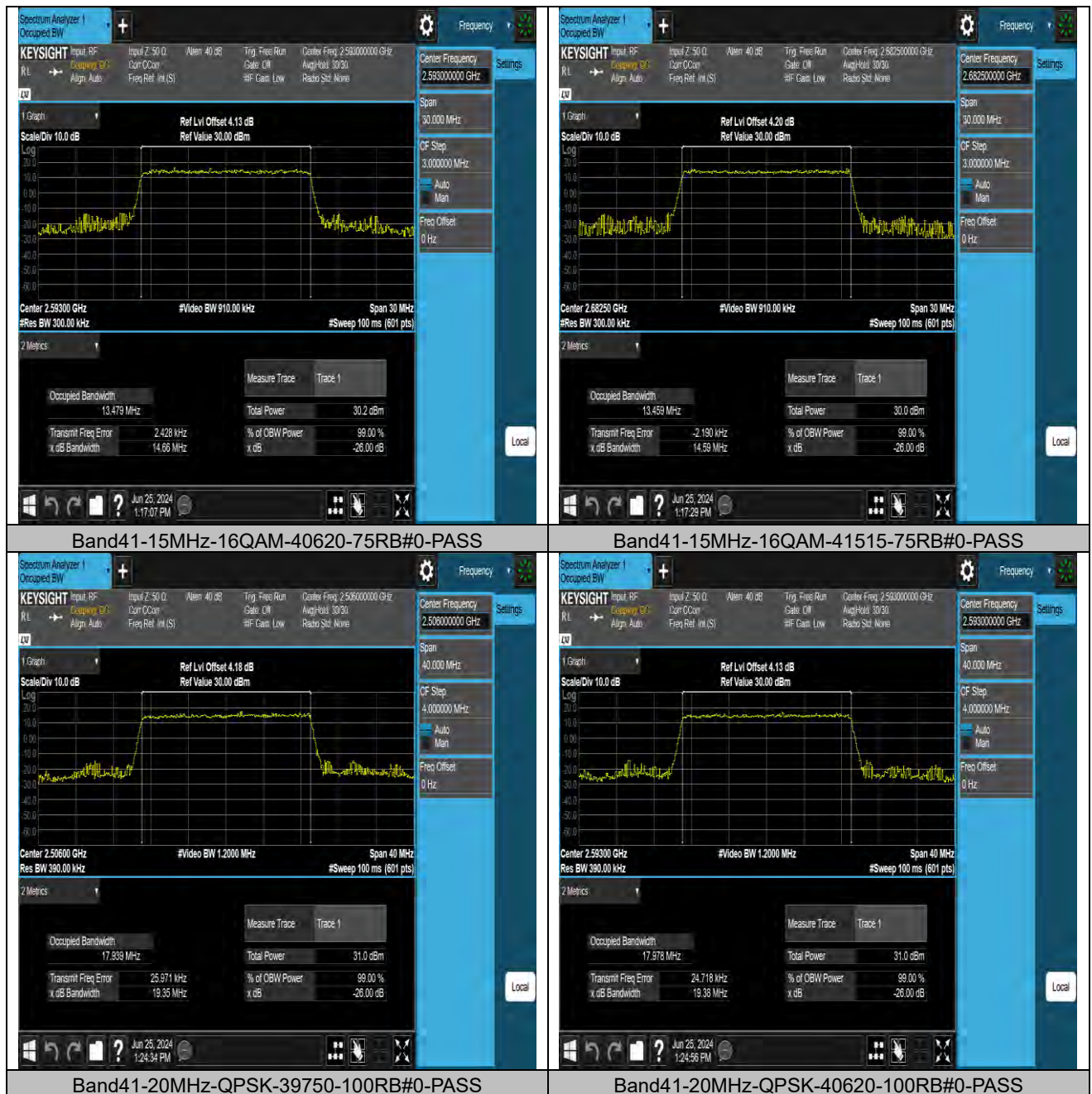


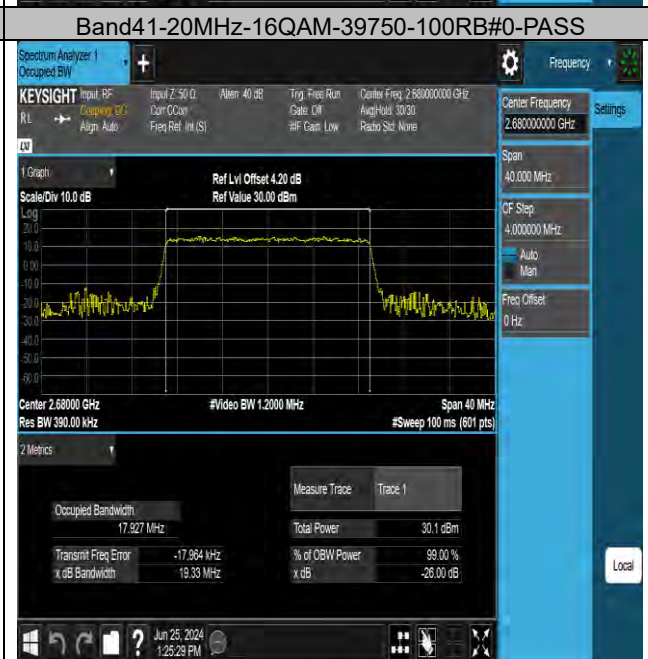
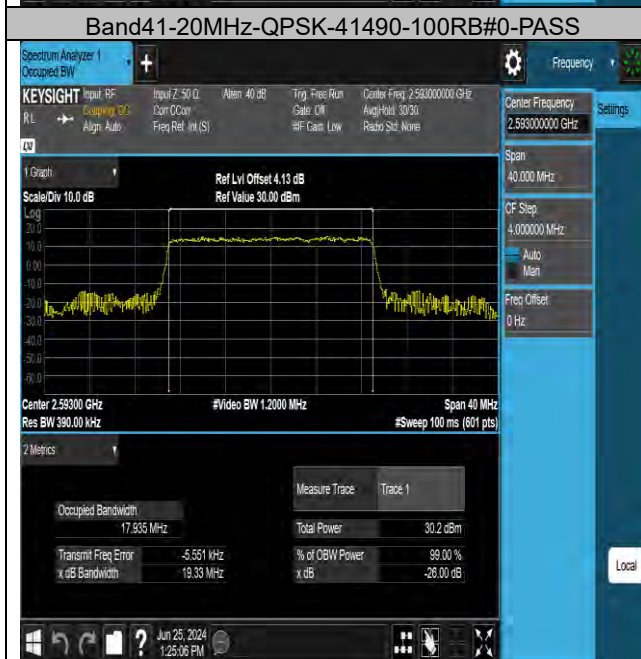
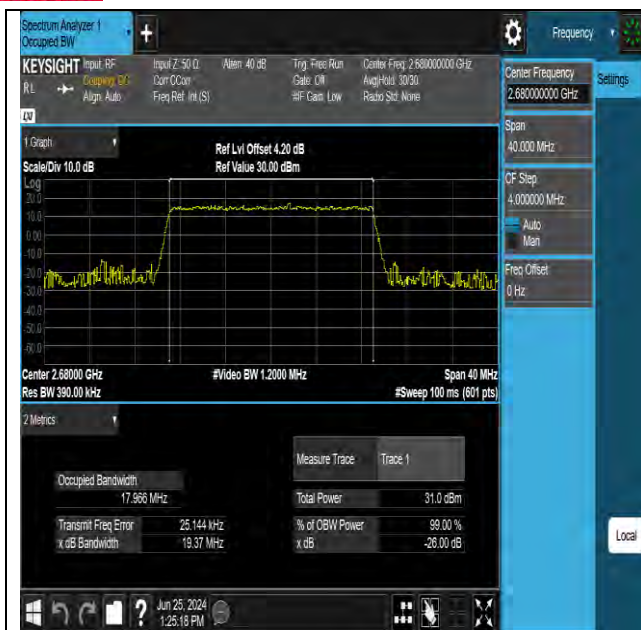




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BAND EDGE

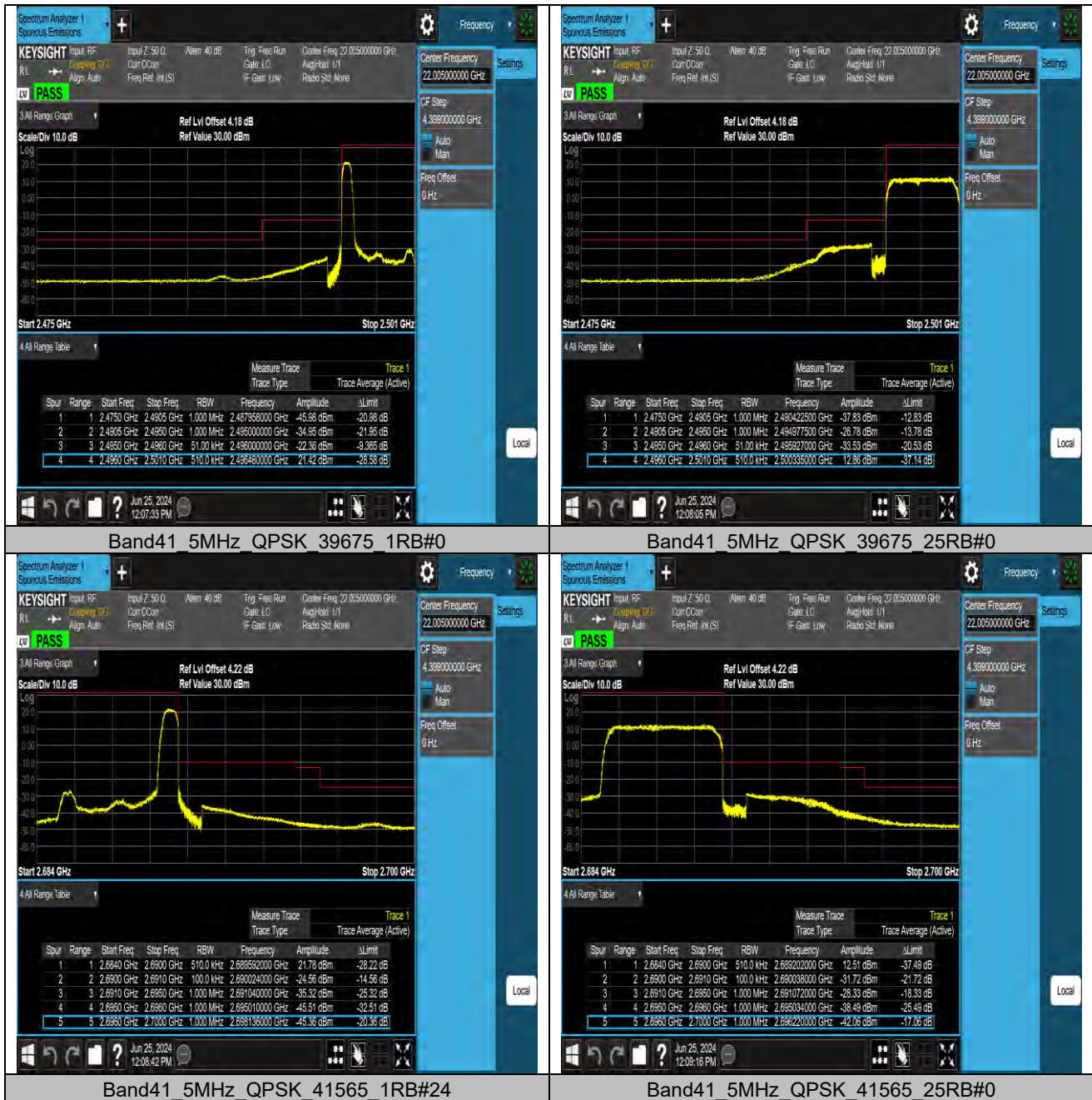
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	-22.36	PASS
Band41	5MHz	QPSK	39675	25RB#0	-37.83	PASS
Band41	5MHz	QPSK	41565	1RB#24	-24.56	PASS
Band41	5MHz	QPSK	41565	25RB#0	-42.06	PASS
Band41	5MHz	16QAM	39675	1RB#0	-21.45	PASS
Band41	5MHz	16QAM	39675	25RB#0	-25.99	PASS
Band41	5MHz	16QAM	41565	1RB#24	-23.96	PASS
Band41	5MHz	16QAM	41565	25RB#0	-27.44	PASS
Band41	10MHz	QPSK	39700	1RB#0	-29.89	PASS
Band41	10MHz	QPSK	39700	50RB#0	-31.60	PASS
Band41	10MHz	QPSK	41540	1RB#49	-31.20	PASS
Band41	10MHz	QPSK	41540	50RB#0	-41.54	PASS
Band41	10MHz	16QAM	39700	1RB#0	-29.79	PASS
Band41	10MHz	16QAM	39700	50RB#0	-31.21	PASS
Band41	10MHz	16QAM	41540	1RB#49	-30.29	PASS
Band41	10MHz	16QAM	41540	50RB#0	-41.97	PASS
Band41	15MHz	QPSK	39725	1RB#0	-44.27	PASS
Band41	15MHz	QPSK	39725	75RB#0	-29.05	PASS
Band41	15MHz	QPSK	41515	1RB#74	-32.15	PASS
Band41	15MHz	QPSK	41515	75RB#0	-39.82	PASS
Band41	15MHz	16QAM	39725	1RB#0	-44.31	PASS
Band41	15MHz	16QAM	39725	75RB#0	-32.53	PASS
Band41	15MHz	16QAM	41515	1RB#74	-32.69	PASS
Band41	15MHz	16QAM	41515	75RB#0	-41.94	PASS
Band41	20MHz	QPSK	39750	1RB#0	-44.96	PASS
Band41	20MHz	QPSK	39750	100RB#0	-33.99	PASS
Band41	20MHz	QPSK	41490	1RB#99	-48.04	PASS
Band41	20MHz	QPSK	41490	100RB#0	-43.60	PASS
Band41	20MHz	16QAM	39750	1RB#0	-45.20	PASS
Band41	20MHz	16QAM	39750	100RB#0	-32.88	PASS
Band41	20MHz	16QAM	41490	1RB#99	-47.77	PASS
Band41	20MHz	16QAM	41490	100RB#0	-44.22	PASS



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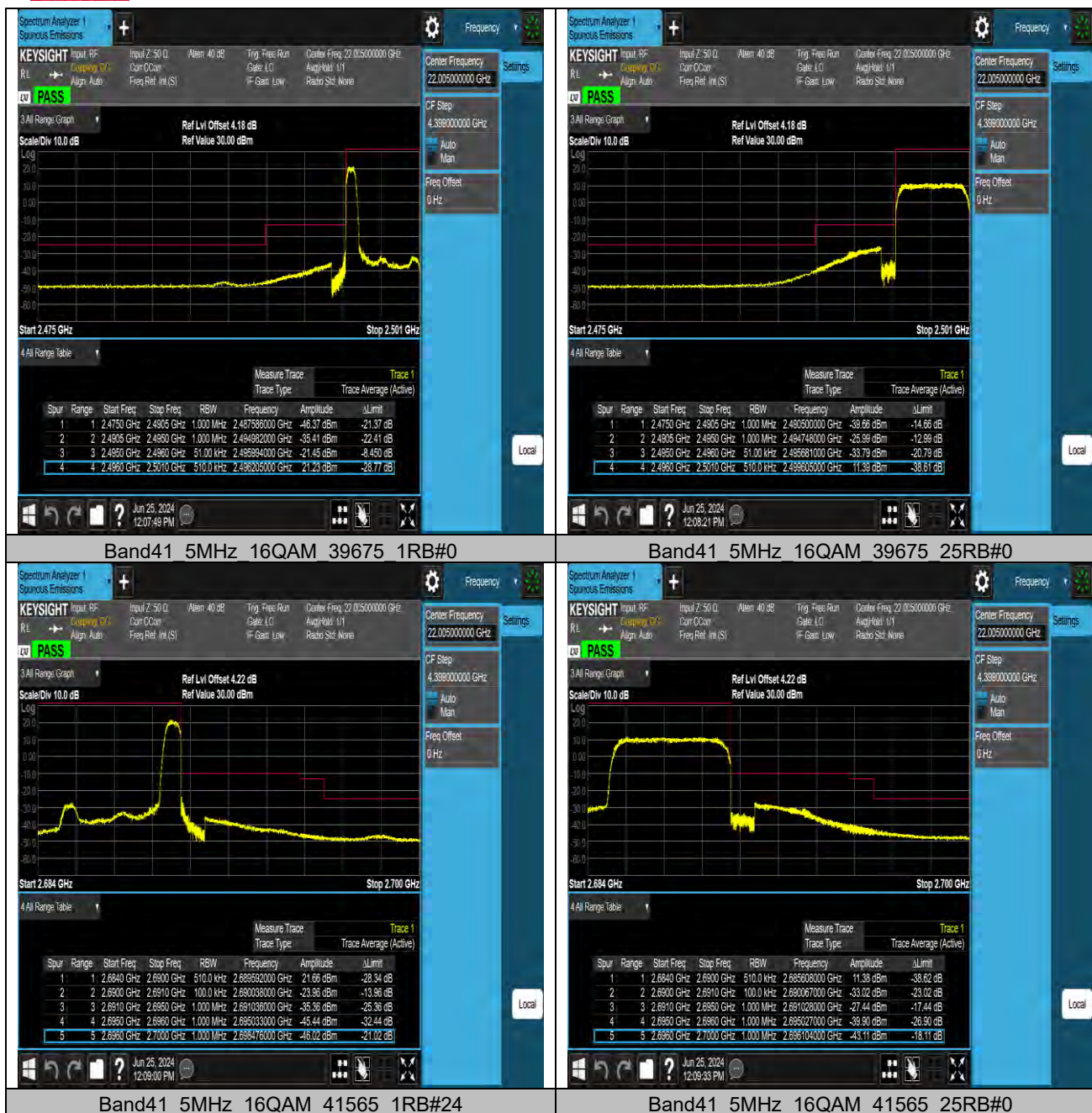
Test Graphs





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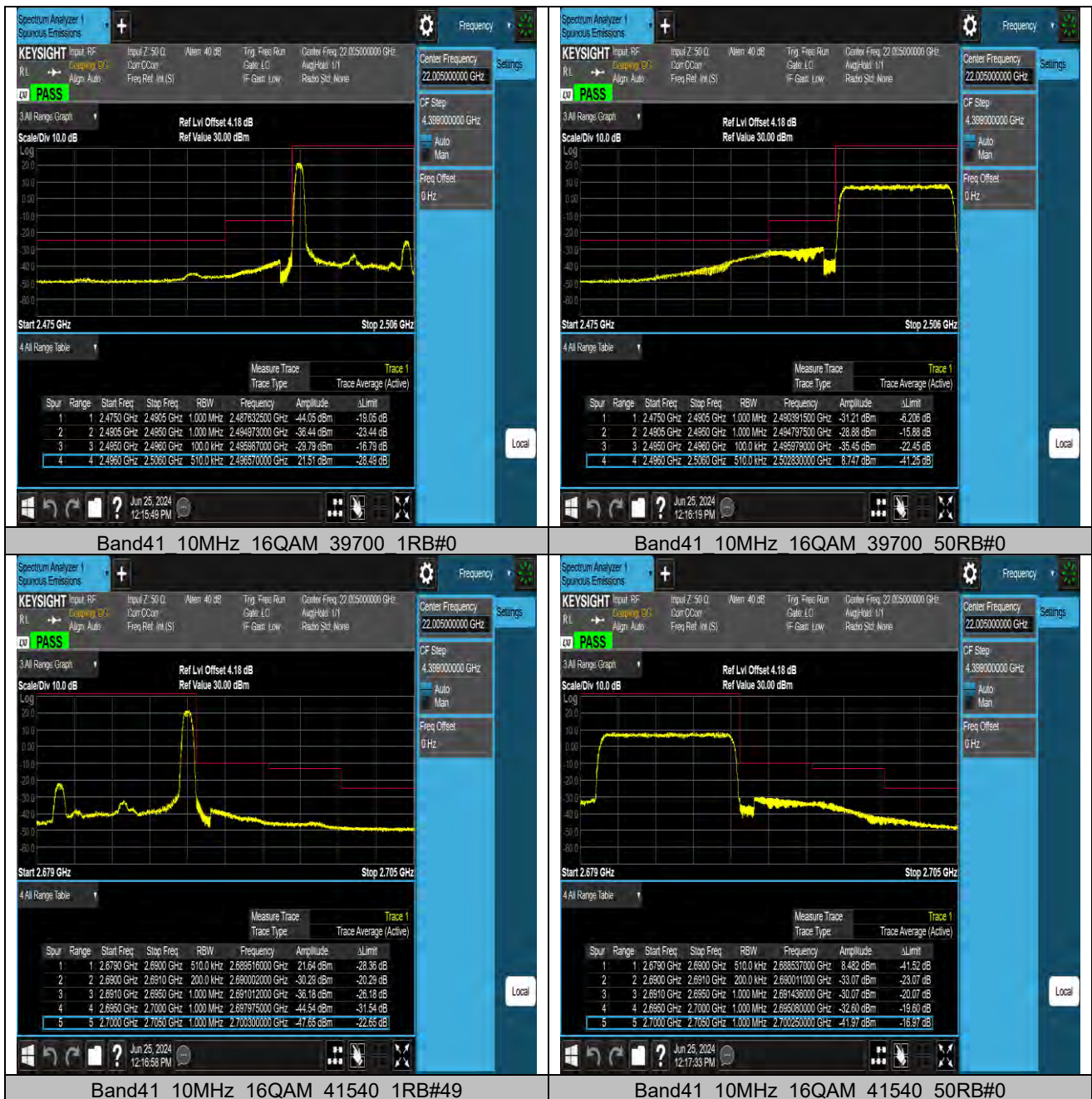






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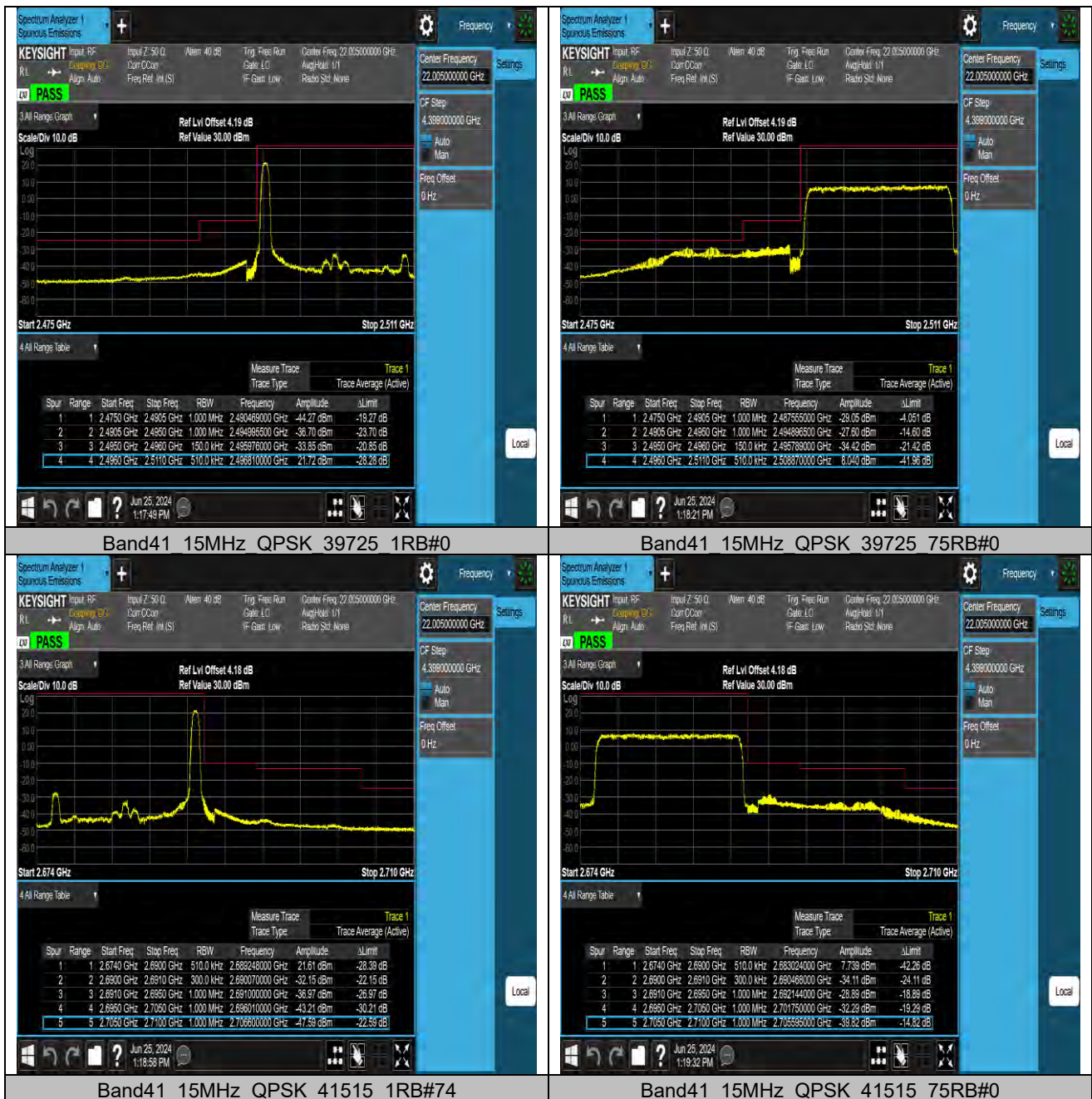
Test Report No.: W7L-P24100002RF08





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Test Report No.: W7L-P24100002RF08



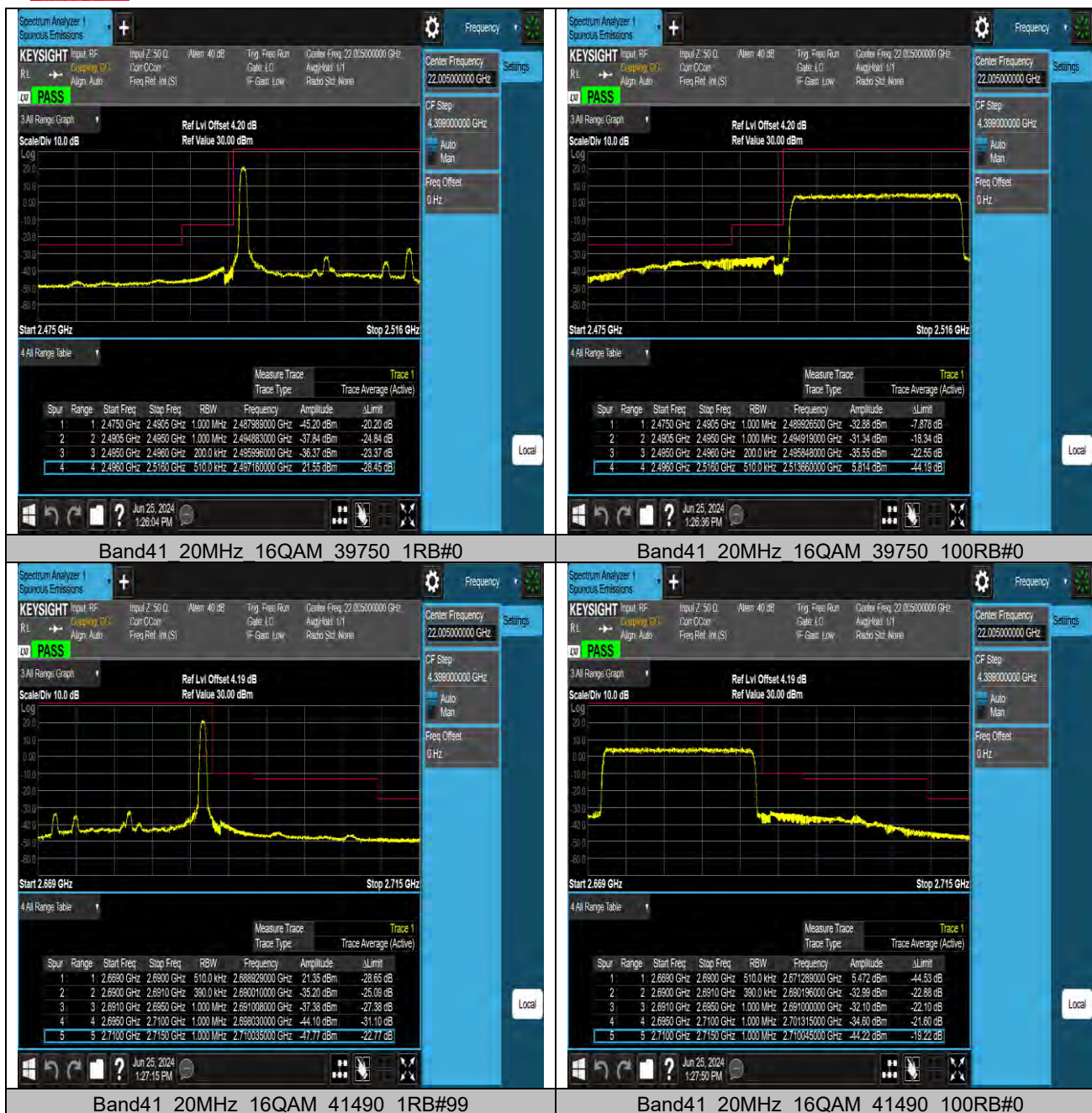






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CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	30~1000	-57.81	PASS
Band41	5MHz	QPSK	39675	1RB#0	1000~10000	-47.54	PASS
Band41	5MHz	QPSK	39675	1RB#0	10000~20000	-55.31	PASS
Band41	5MHz	QPSK	39675	1RB#0	20000~27000	-53.12	PASS
Band41	5MHz	QPSK	40620	1RB#0	30~1000	-55.38	PASS
Band41	5MHz	QPSK	40620	1RB#0	1000~10000	-47.57	PASS
Band41	5MHz	QPSK	40620	1RB#0	10000~20000	-54.90	PASS
Band41	5MHz	QPSK	40620	1RB#0	20000~27000	-53.12	PASS
Band41	5MHz	QPSK	41565	1RB#0	30~1000	-52.80	PASS
Band41	5MHz	QPSK	41565	1RB#0	1000~10000	-42.76	PASS
Band41	5MHz	QPSK	41565	1RB#0	10000~20000	-55.31	PASS
Band41	5MHz	QPSK	41565	1RB#0	20000~27000	-53.36	PASS
Band41	10MHz	QPSK	39700	1RB#0	30~1000	-57.49	PASS
Band41	10MHz	QPSK	39700	1RB#0	1000~10000	-47.63	PASS
Band41	10MHz	QPSK	39700	1RB#0	10000~20000	-55.26	PASS
Band41	10MHz	QPSK	39700	1RB#0	20000~27000	-52.89	PASS
Band41	10MHz	QPSK	40620	1RB#0	30~1000	-57.39	PASS
Band41	10MHz	QPSK	40620	1RB#0	1000~10000	-47.47	PASS
Band41	10MHz	QPSK	40620	1RB#0	10000~20000	-55.24	PASS
Band41	10MHz	QPSK	40620	1RB#0	20000~27000	-53.21	PASS
Band41	10MHz	QPSK	41540	1RB#0	30~1000	-51.83	PASS
Band41	10MHz	QPSK	41540	1RB#0	1000~10000	-44.56	PASS
Band41	10MHz	QPSK	41540	1RB#0	10000~20000	-54.83	PASS
Band41	10MHz	QPSK	41540	1RB#0	20000~27000	-53.11	PASS
Band41	15MHz	QPSK	39725	1RB#0	30~1000	-57.50	PASS
Band41	15MHz	QPSK	39725	1RB#0	1000~10000	-47.63	PASS
Band41	15MHz	QPSK	39725	1RB#0	10000~20000	-55.24	PASS
Band41	15MHz	QPSK	39725	1RB#0	20000~27000	-53.17	PASS
Band41	15MHz	QPSK	40620	1RB#0	30~1000	-57.55	PASS
Band41	15MHz	QPSK	40620	1RB#0	1000~10000	-47.44	PASS
Band41	15MHz	QPSK	40620	1RB#0	10000~20000	-55.06	PASS
Band41	15MHz	QPSK	40620	1RB#0	20000~27000	-53.04	PASS
Band41	15MHz	QPSK	41515	1RB#0	30~1000	-52.36	PASS
Band41	15MHz	QPSK	41515	1RB#0	1000~10000	-45.24	PASS
Band41	15MHz	QPSK	41515	1RB#0	10000~20000	-54.98	PASS
Band41	15MHz	QPSK	41515	1RB#0	20000~27000	-53.04	PASS
Band41	20MHz	QPSK	39750	1RB#0	30~1000	-57.51	PASS
Band41	20MHz	QPSK	39750	1RB#0	1000~10000	-47.67	PASS
Band41	20MHz	QPSK	39750	1RB#0	10000~20000	-55.08	PASS
Band41	20MHz	QPSK	39750	1RB#0	20000~27000	-53.03	PASS
Band41	20MHz	QPSK	40620	1RB#0	30~1000	-57.56	PASS
Band41	20MHz	QPSK	40620	1RB#0	1000~10000	-47.64	PASS
Band41	20MHz	QPSK	40620	1RB#0	10000~20000	-54.73	PASS
Band41	20MHz	QPSK	40620	1RB#0	20000~27000	-52.87	PASS



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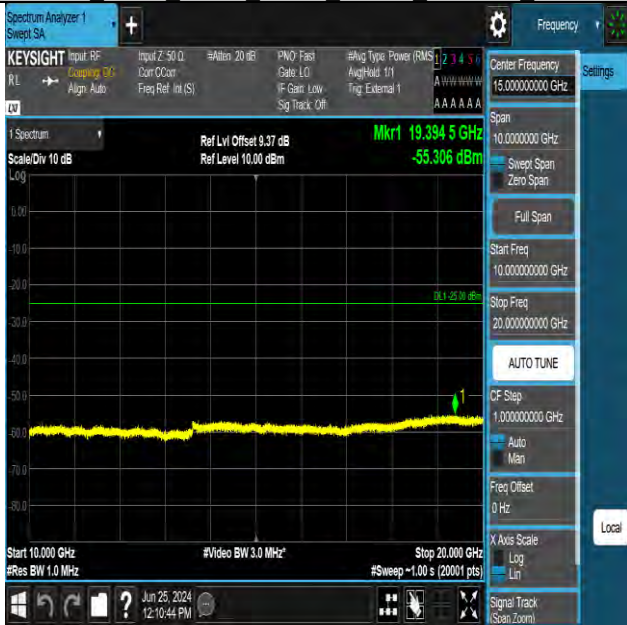
Band41	20MHz	QPSK	41490	1RB#0	30~1000	-52.61	PASS
Band41	20MHz	QPSK	41490	1RB#0	1000~10000	-47.66	PASS
Band41	20MHz	QPSK	41490	1RB#0	10000~20000	-55.17	PASS
Band41	20MHz	QPSK	41490	1RB#0	20000~27000	-52.86	PASS

Test Graphs



Band41 5MHz QPSK 39675 1RB#0 30~1000 30~1000

Band41 5MHz QPSK 39675 1RB#0 1000~10000 1000~10000



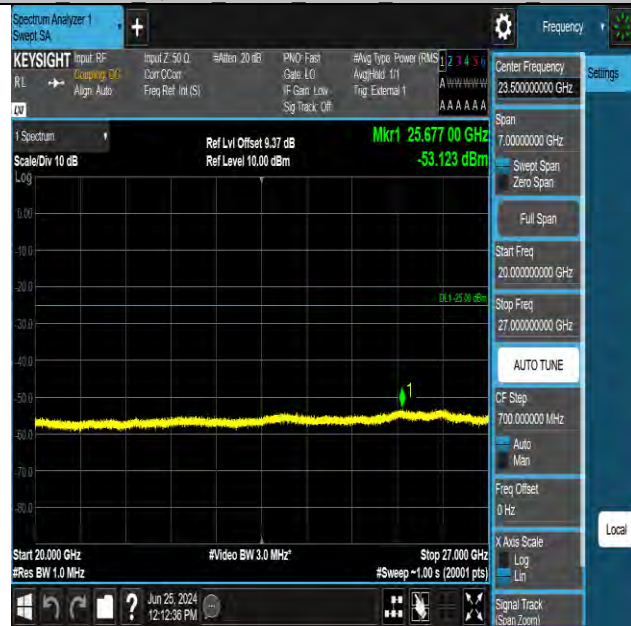
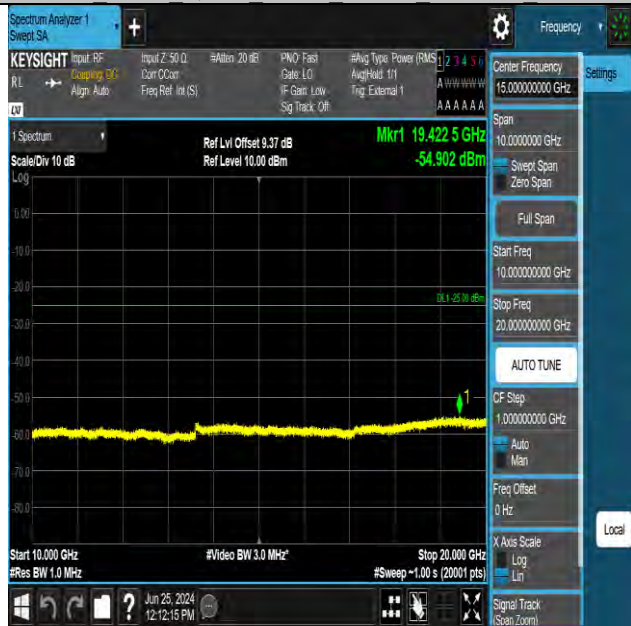
Band41 5MHz QPSK 39675 1RB#0 10000~20000 10000~20000

Band41 5MHz QPSK 39675 1RB#0 20000~27000 20000~27000



Band41 5MHz QPSK 40620 1RB#0 30~1000 30~1000

Band41 5MHz QPSK 40620 1RB#0 1000~10000 1000~10000



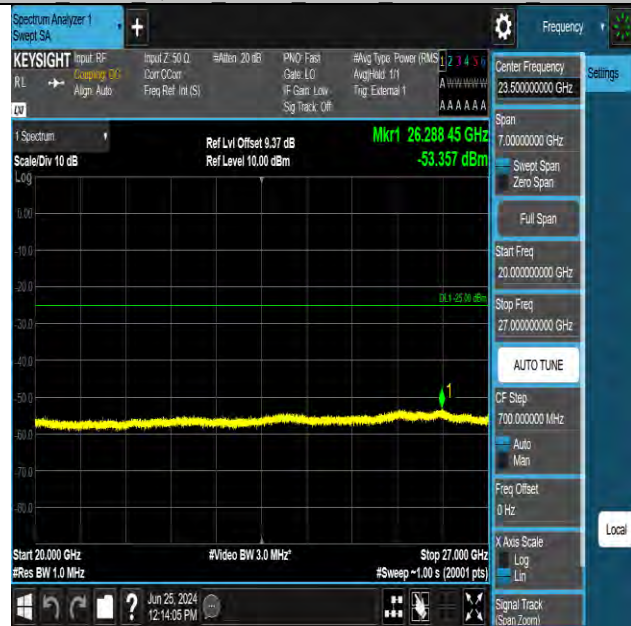
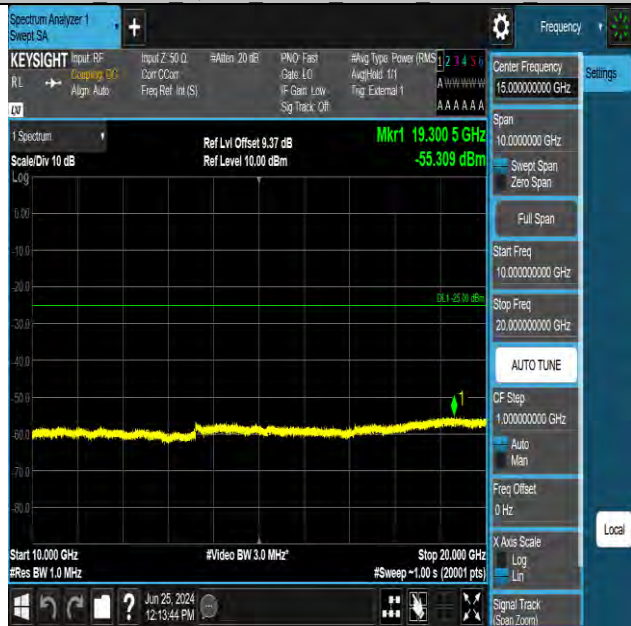
Band41 5MHz QPSK 40620 1RB#0 10000~20000 10000~20000

Band41 5MHz QPSK 40620 1RB#0 20000~27000 20000~27000



Band41 5MHz QPSK 41565 1RB#0 30~1000 30~1000

Band41 5MHz QPSK 41565 1RB#0 1000~10000 1000~10000



Band41 5MHz QPSK 41565 1RB#0 10000~20000 10000~20000

Band41 5MHz QPSK 41565 1RB#0 20000~27000 20000~27000

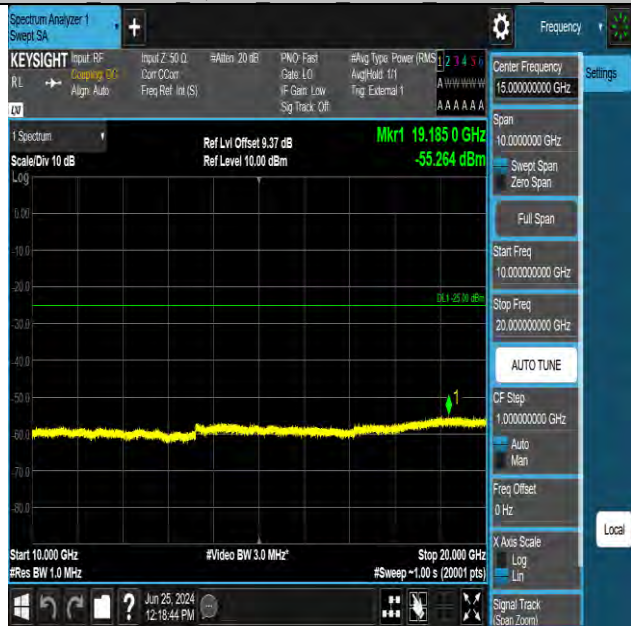


Test Report No.: W7L-P24100002RF08



Band41 10MHz QPSK 39700 1RB#0 30~1000 30~1000

Band41 10MHz QPSK 39700 1RB#0 1000~10000 1000~10000

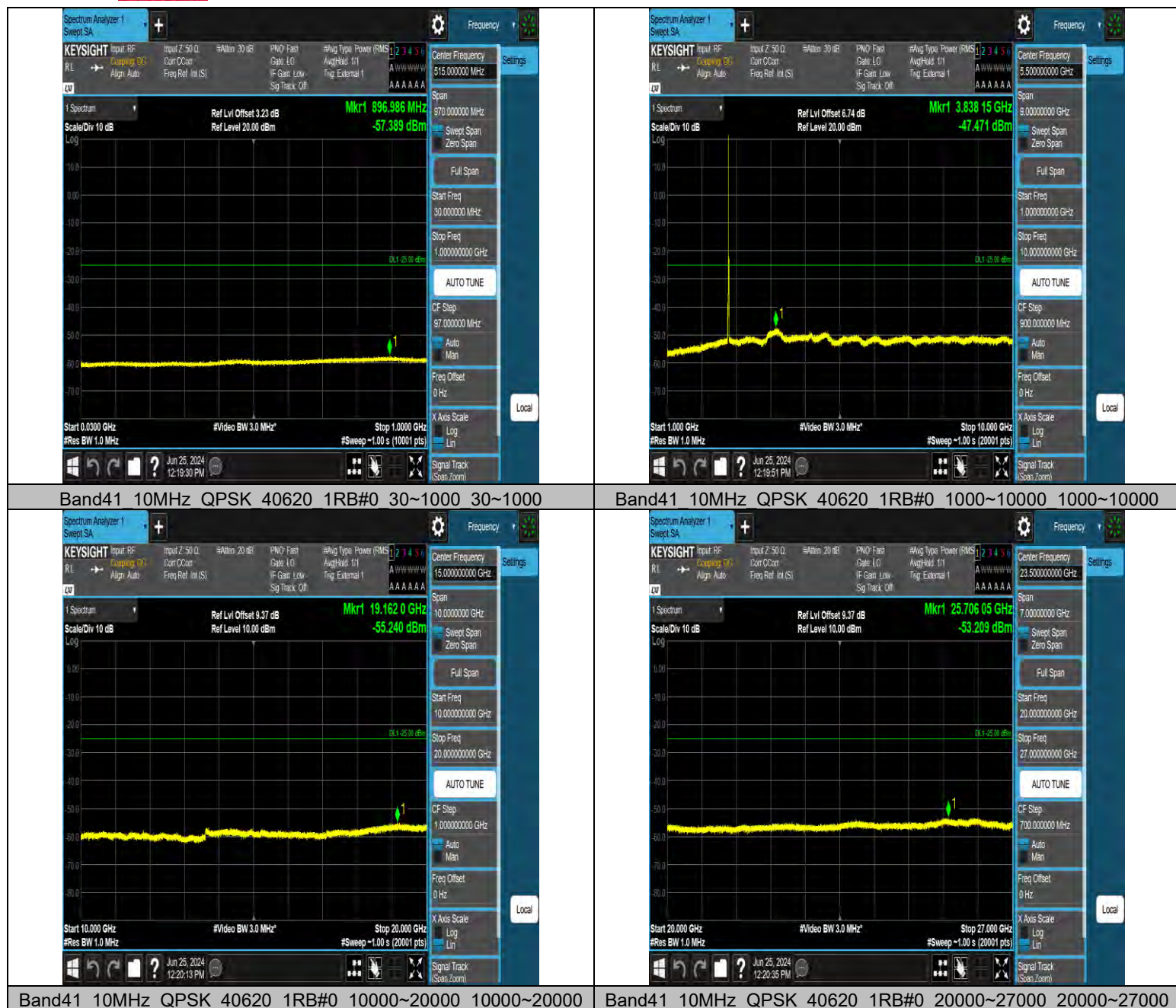


Band41 10MHz QPSK 39700 1RB#0 10000~20000 10000~20000

Band41 10MHz QPSK 39700 1RB#0 20000~27000 20000~27000



Test Report No.: W7L-P24100002RF08



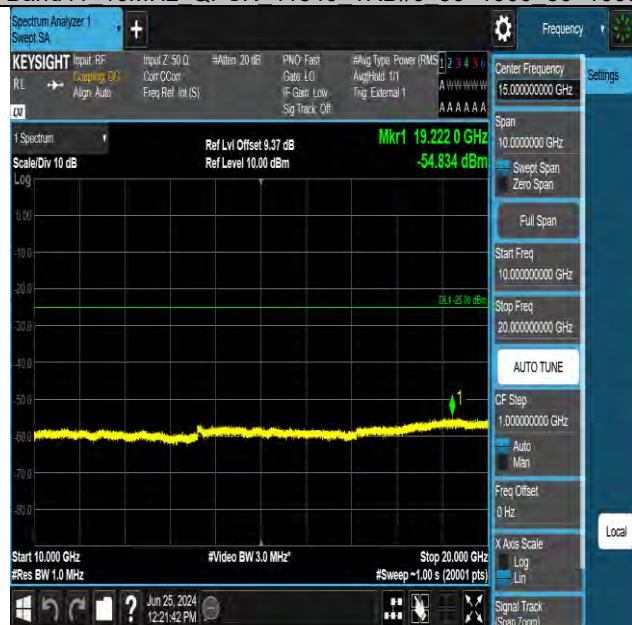


Test Report No.: W7L-P24100002RF08



Band41 10MHz QPSK 41540 1RB#0 30~1000 30~1000

Band41 10MHz QPSK 41540 1RB#0 1000~10000 1000~10000



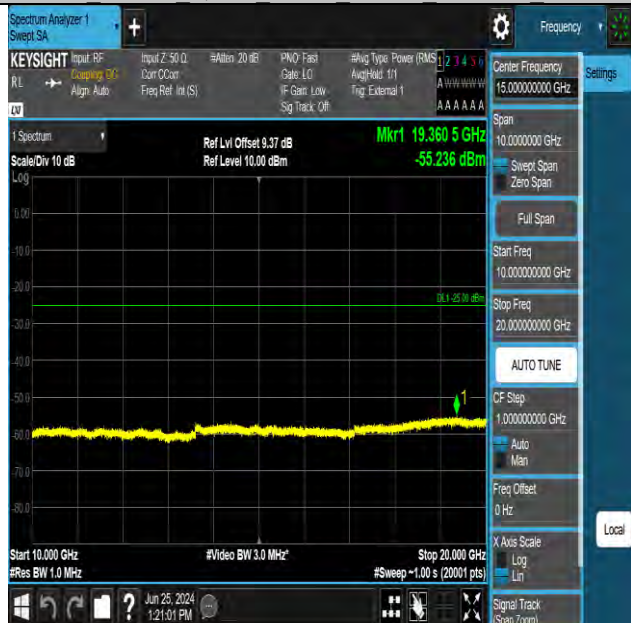
Band41 10MHz QPSK 41540 1RB#0 10000~20000 10000~20000

Band41 10MHz QPSK 41540 1RB#0 20000~27000 20000~27000



Band41 15MHz QPSK 39725 1RB#0 30~1000 30~1000

Band41 15MHz QPSK 39725 1RB#0 1000~10000 1000~10000



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Band41 15MHz QPSK 39725 1RB#0 20000~27000 20000~27000

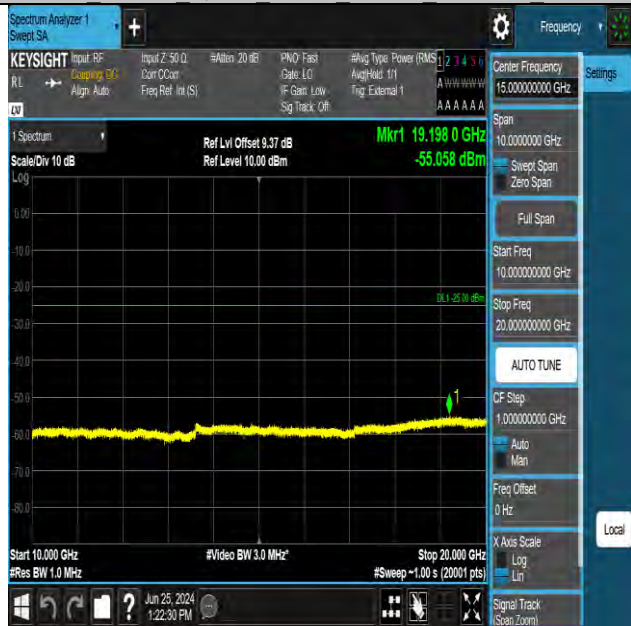


Test Report No.: W7L-P24100002RF08



Band41 15MHz QPSK 40620 1RB#0 30~1000 30~1000

Band41 15MHz QPSK 40620 1RB#0 1000~10000 1000~10000

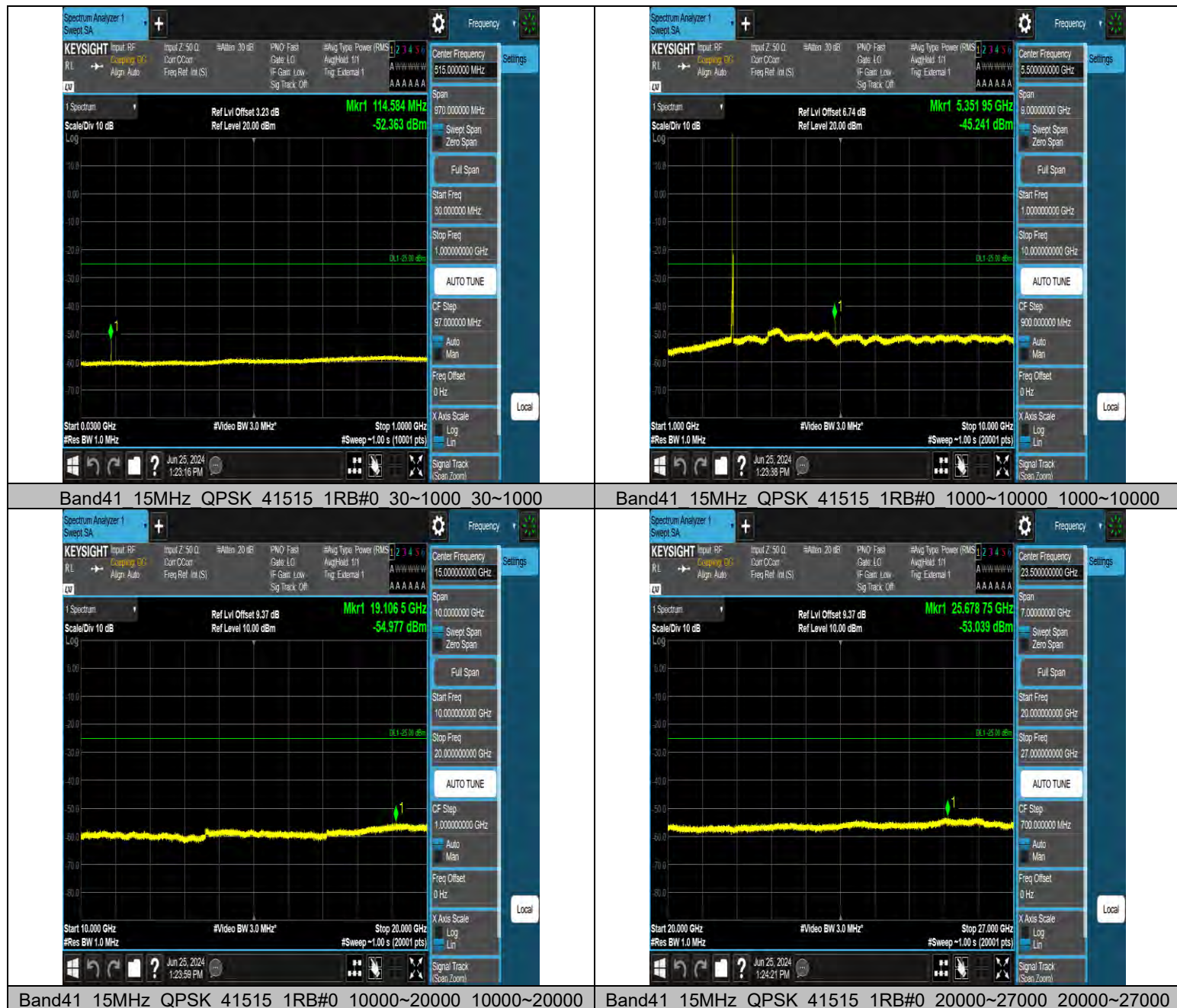


Band41 15MHz QPSK 40620 1RB#0 10000~20000 10000~20000

Band41 15MHz QPSK 40620 1RB#0 20000~27000 20000~27000

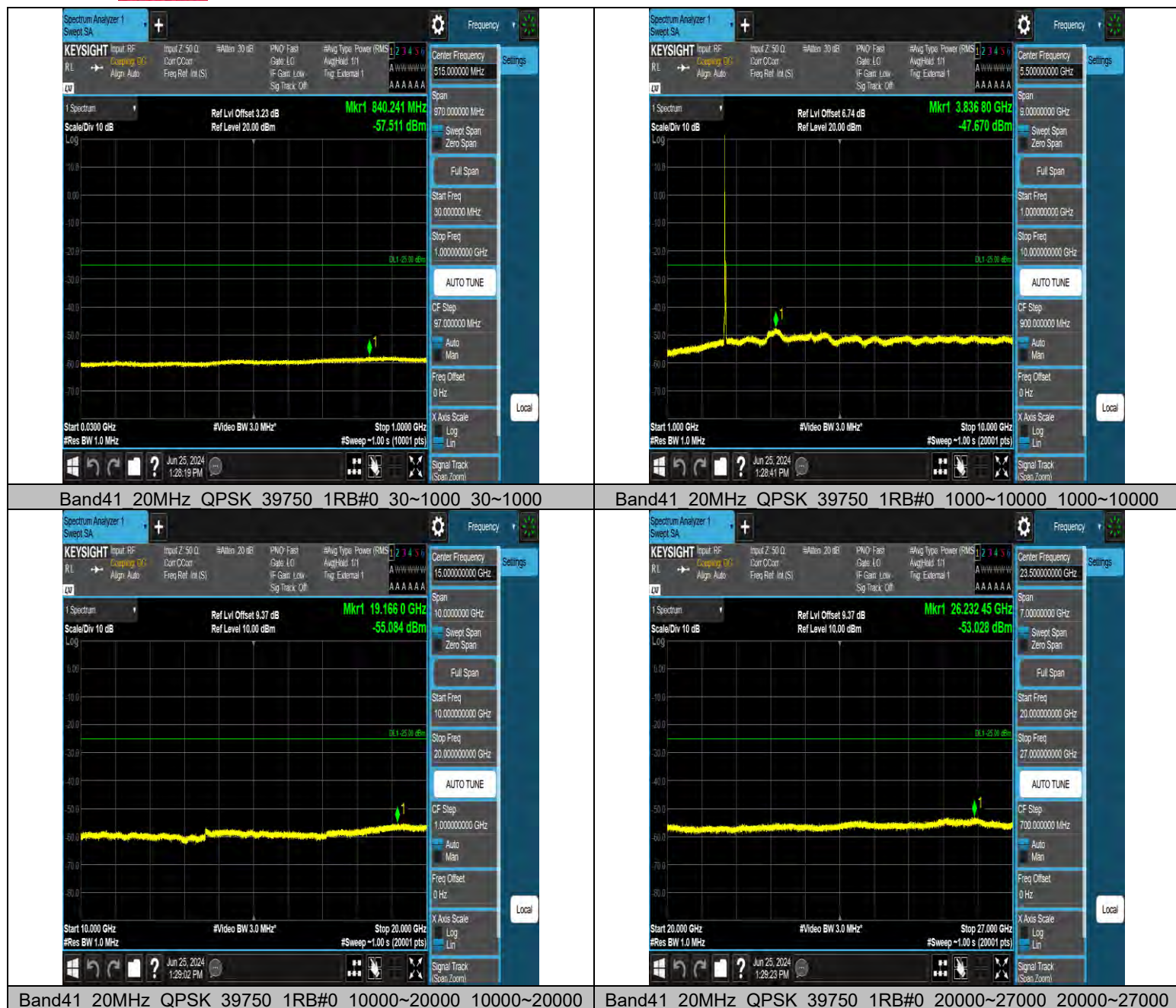


Test Report No.: W7L-P24100002RF08



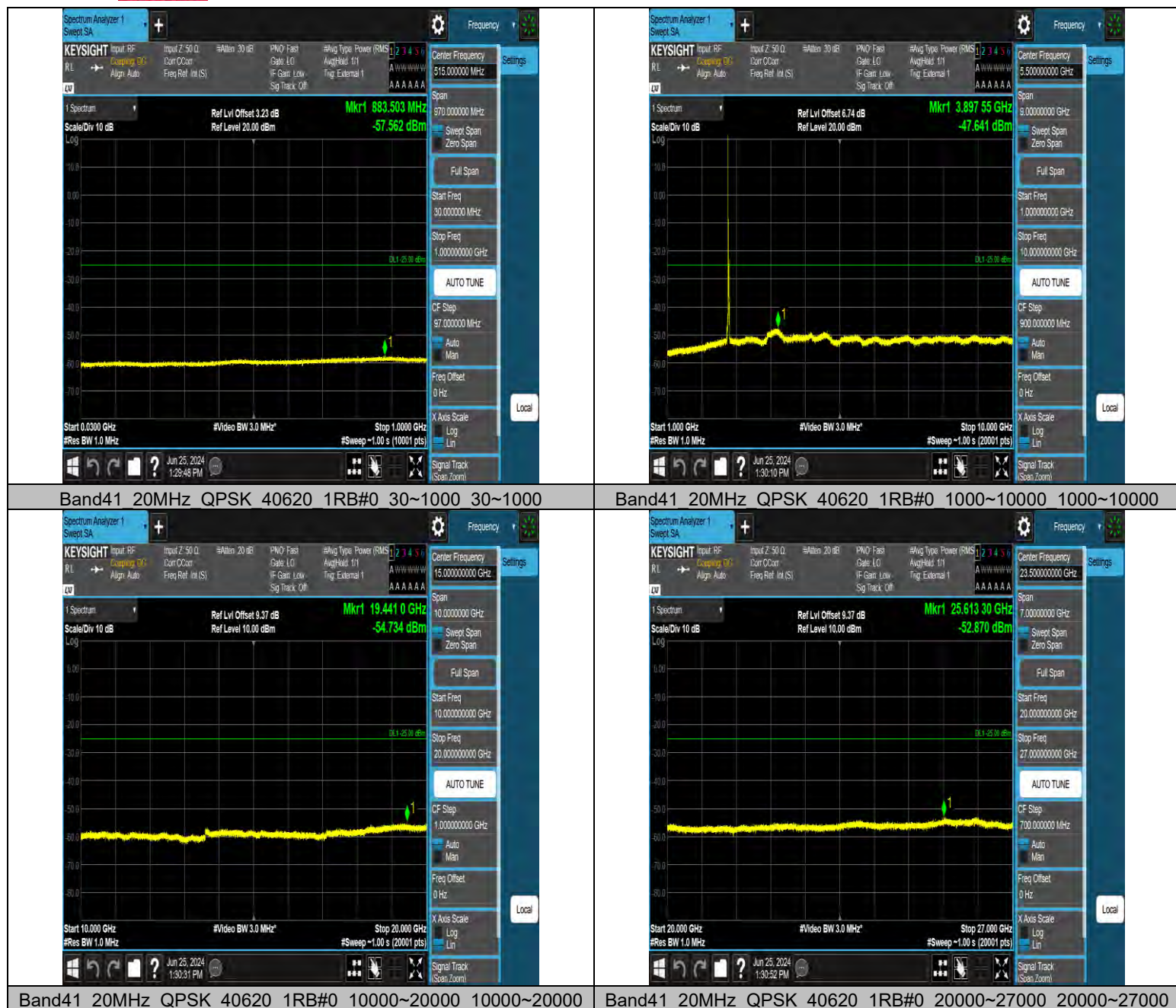


Test Report No.: W7L-P24100002RF08





Test Report No.: W7L-P24100002RF08



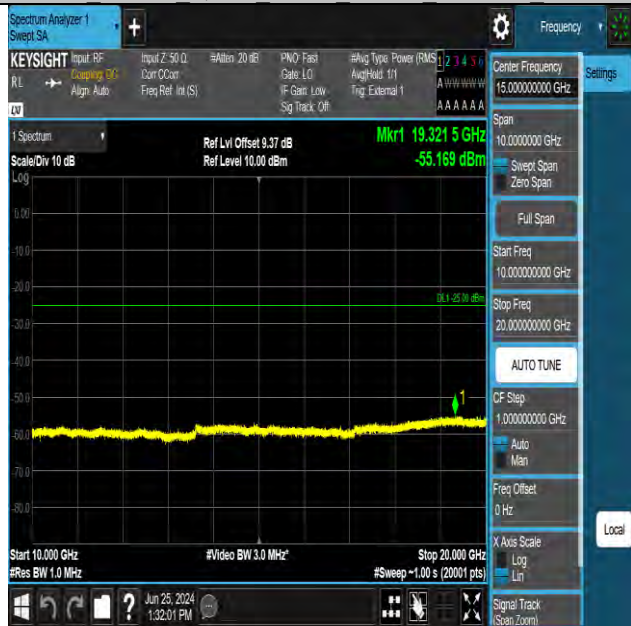


Test Report No.: W7L-P24100002RF08



Band41 20MHz QPSK 41490 1RB#0 30~1000 30~1000

Band41 20MHz QPSK 41490 1RB#0 1000~10000 1000~10000



Band41 20MHz QPSK 41490 1RB#0 10000~20000 10000~20000

Band41 20MHz QPSK 41490 1RB#0 20000~27000 20000~27000