

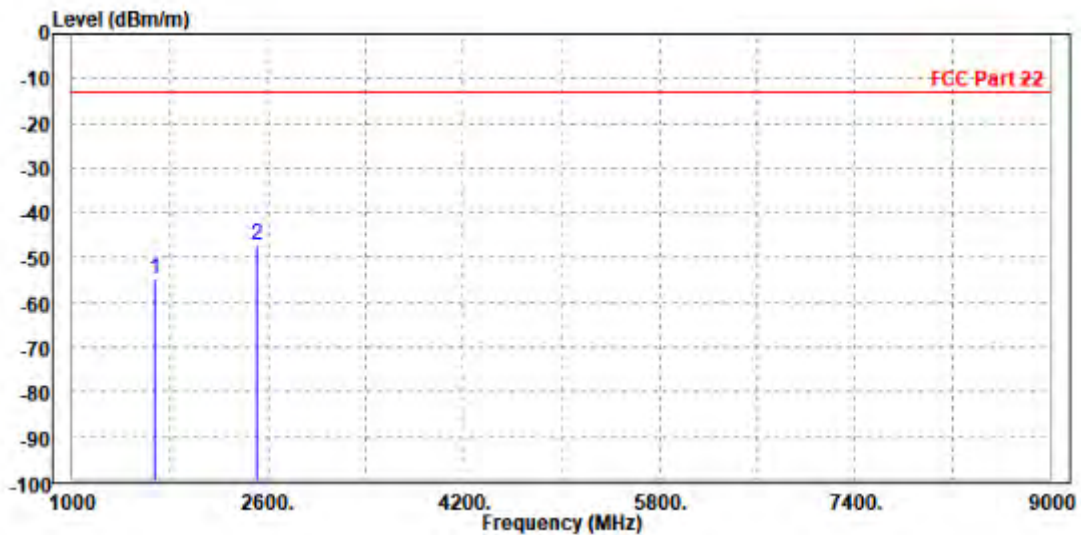


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VERITAS**

Test Report No.: W7L-P24050016RF05

<b>MODE</b>	TX channel 20643	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-54.84	-58.27	-13.00	-41.84	3.43	Peak	Vertical
2 PP	2512.000	-46.96	-52.81	-13.00	-33.96	5.85	Peak	Vertical

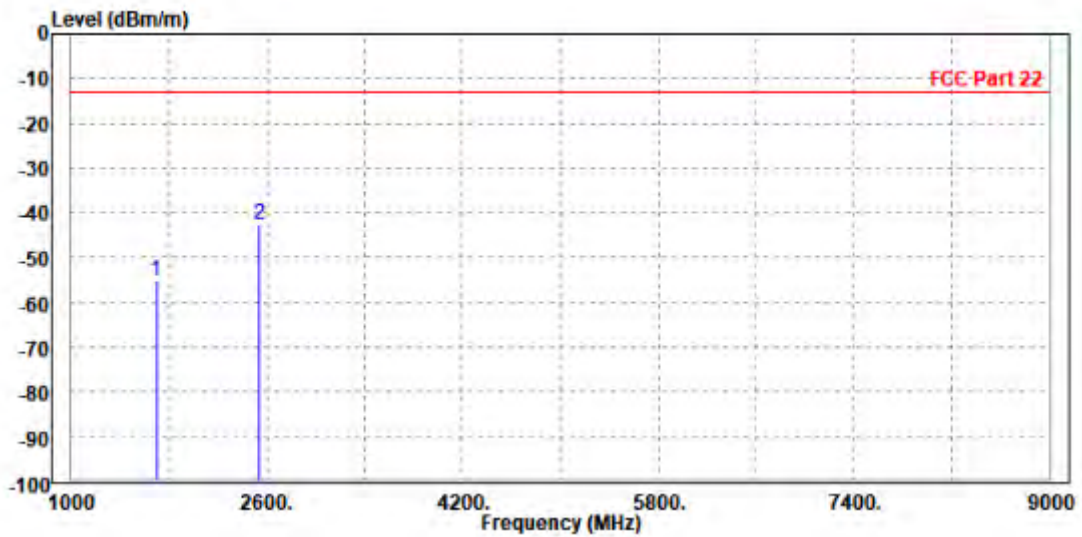




CH20525

MODE	TX channel 20643	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

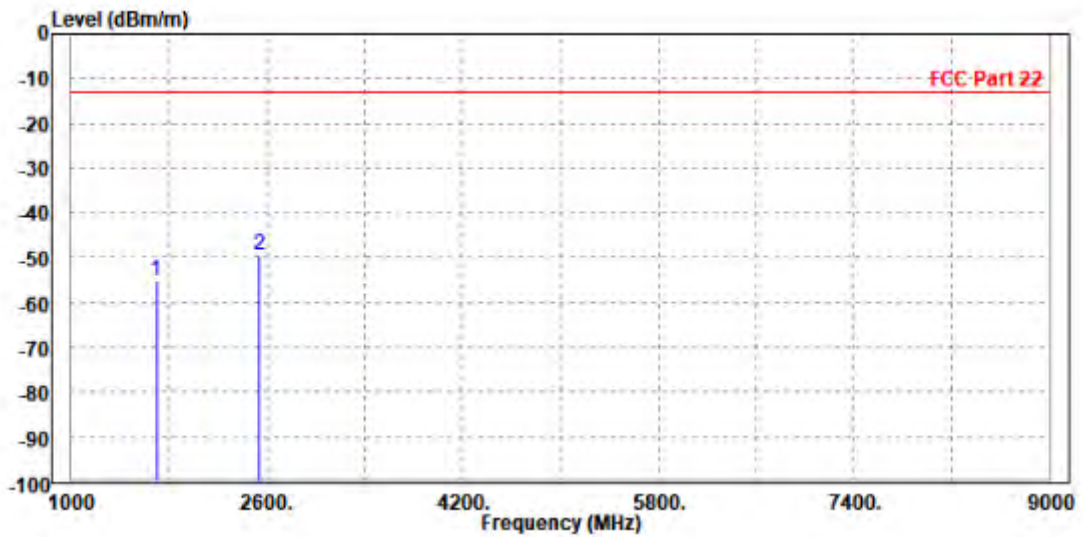
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1696.000	-55.13	-58.94	-13.00	-42.13	3.81	Peak	Horizontal
2 PP	2544.000	-42.49	-48.78	-13.00	-29.49	6.29	Peak	Horizontal





<b>MODE</b>	TX channel 20525	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1696.000	-55.14	-58.61	-13.00	-42.14	3.47	Peak	Vertical
2 PP	2544.000	-49.52	-55.57	-13.00	-36.52	6.05	Peak	Vertical

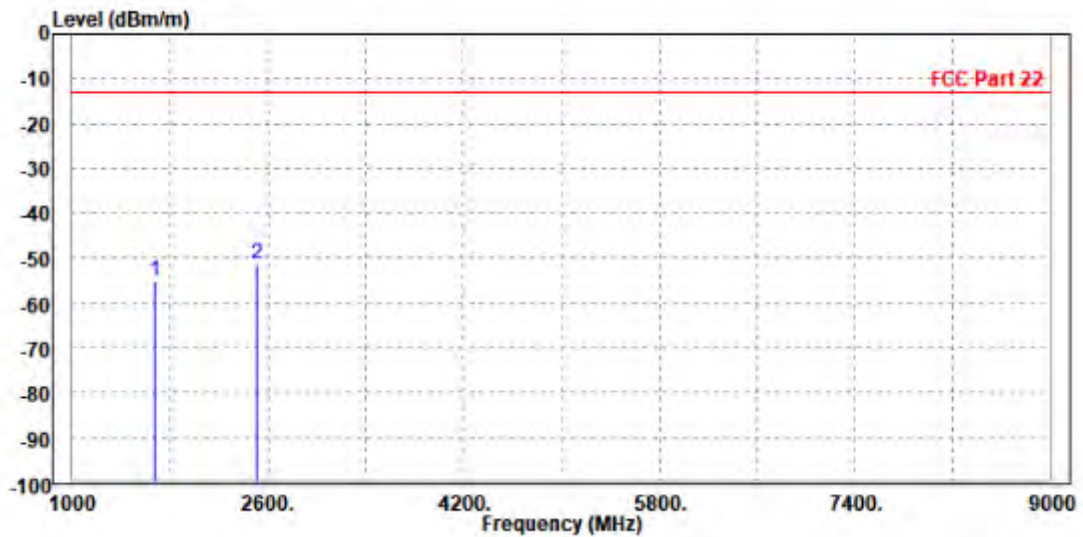




**CHANNEL BANDWIDTH: 3MHz / QPSK**

<b>MODE</b>	TX channel 20525	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-55.17	-58.90	-13.00	-42.17	3.73	Peak	Horizontal
2 PP	2508.000	-51.42	-57.55	-13.00	-38.42	6.13	Peak	Horizontal



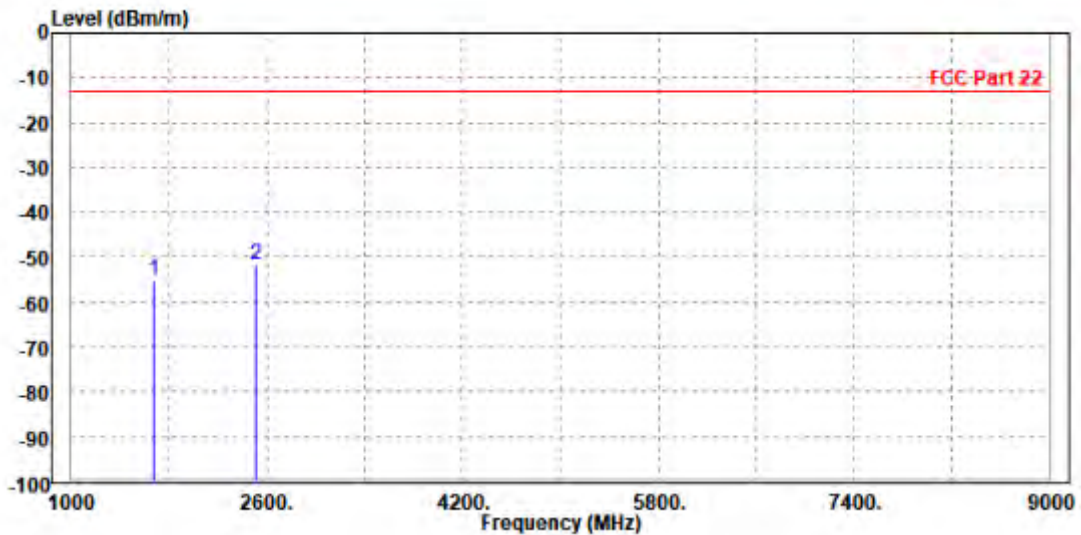


**BUREAU  
VERITAS**

**Test Report No.: W7L-P24050016RF05**

<b>MODE</b>	TX channel 20525	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-54.98	-58.41	-13.00	-41.98	3.43	Peak	Vertical
2 PP	2504.000	-51.56	-57.36	-13.00	-38.56	5.80	Peak	Vertical



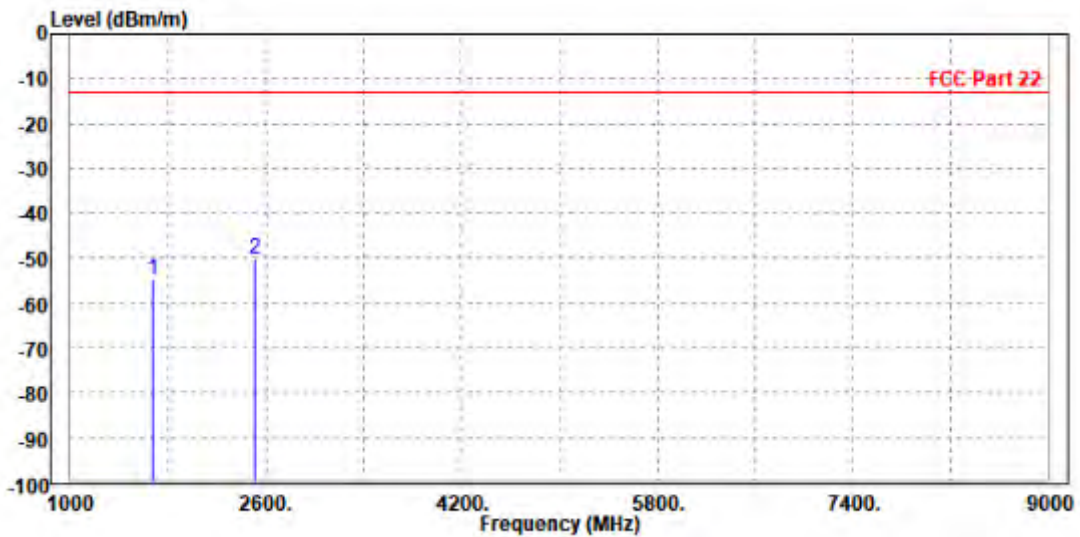




CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-54.91	-58.64	-13.00	-41.91	3.73	Peak	Horizontal
2	PP 2508.000	-50.30	-56.43	-13.00	-37.30	6.13	Peak	Horizontal



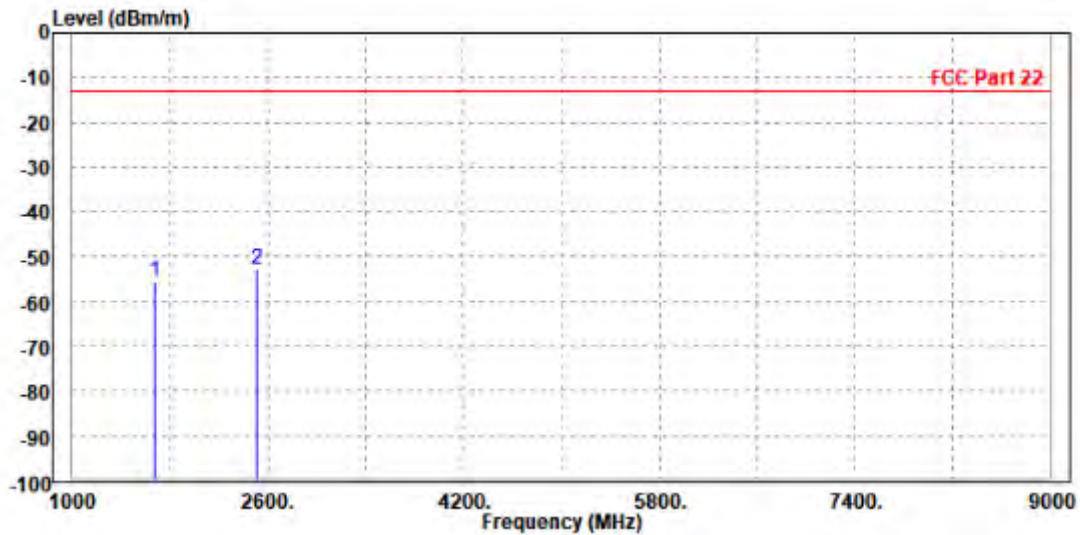


BUREAU VERITAS

Test Report No.: W7L-P24050016RF05

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-55.55	-58.98	-13.00	-42.55	3.43	Peak	Vertical
2 PP	2508.000	-53.00	-58.83	-13.00	-40.00	5.83	Peak	Vertical

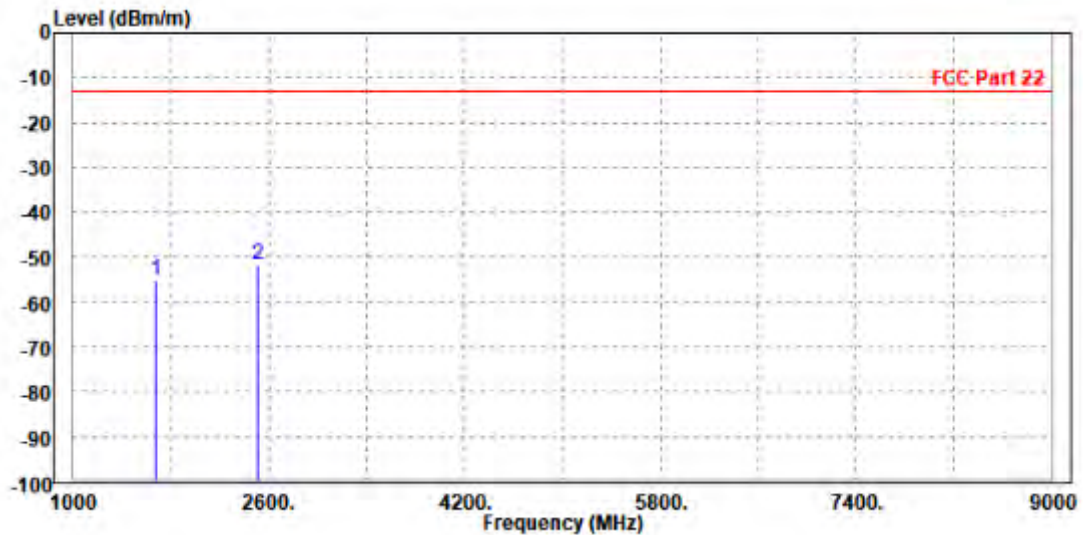




CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-55.19	-58.92	-13.00	-42.19	3.73	Peak	Horizontal
2	PP 2504.000	-51.71	-57.83	-13.00	-38.71	6.12	Peak	Horizontal





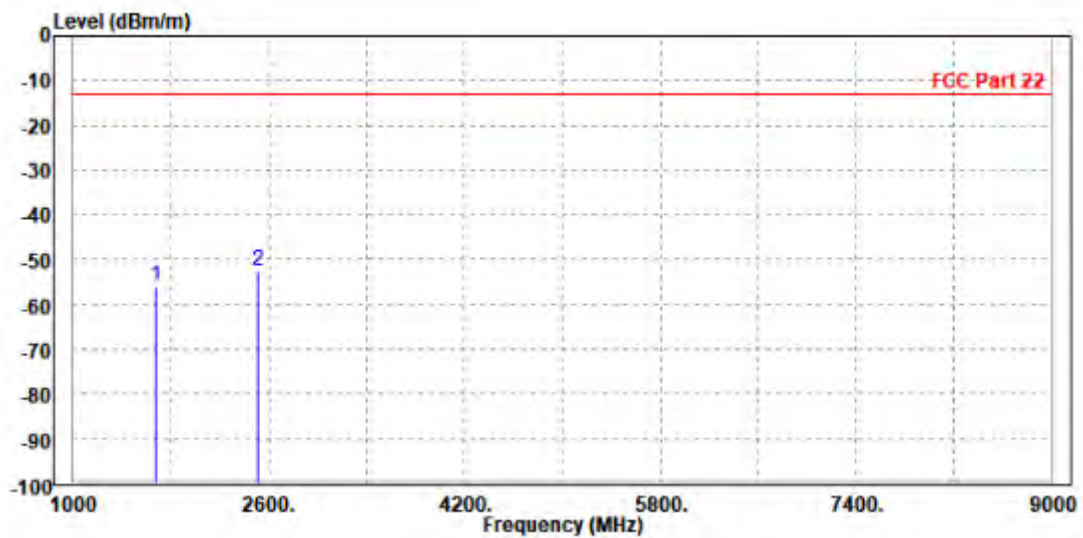


**BUREAU  
VERITAS**

**Test Report No.: W7L-P24050016RF05**

<b>MODE</b>	TX channel 20525	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-55.74	-59.17	-13.00	-42.74	3.43	Peak	Vertical
2	PP 2508.000	-52.65	-58.48	-13.00	-39.65	5.83	Peak	Vertical

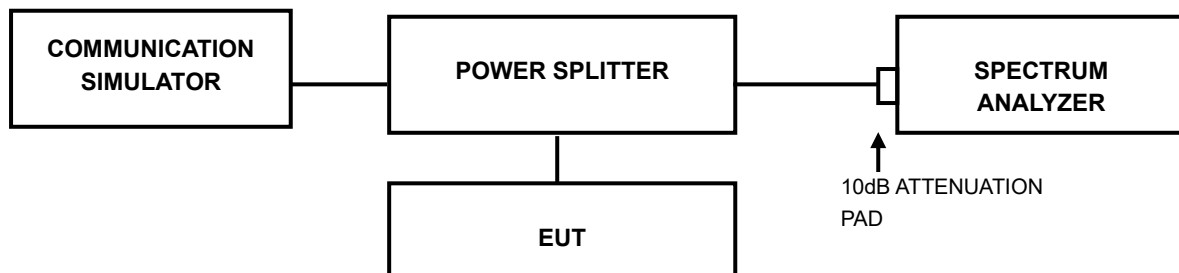


### 3.7 PEAK TO AVERAGE RATIO

#### 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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**Test Report No.: W7L-P24050016RF05**

### 3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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Test Report No.: W7L-P24050016RF05

## 4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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Test Report No.: W7L-P24050016RF05

## 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:**

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Fax: +86-755-88696577

**Email:** [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)

**Web Site:** [www.adt.com.tw](http://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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Test Report No.: W7L-P24050016RF05

## **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

### GSM 850

#### PEAK-TO-AVERAGE RATIO(CCDF)

##### Test Result

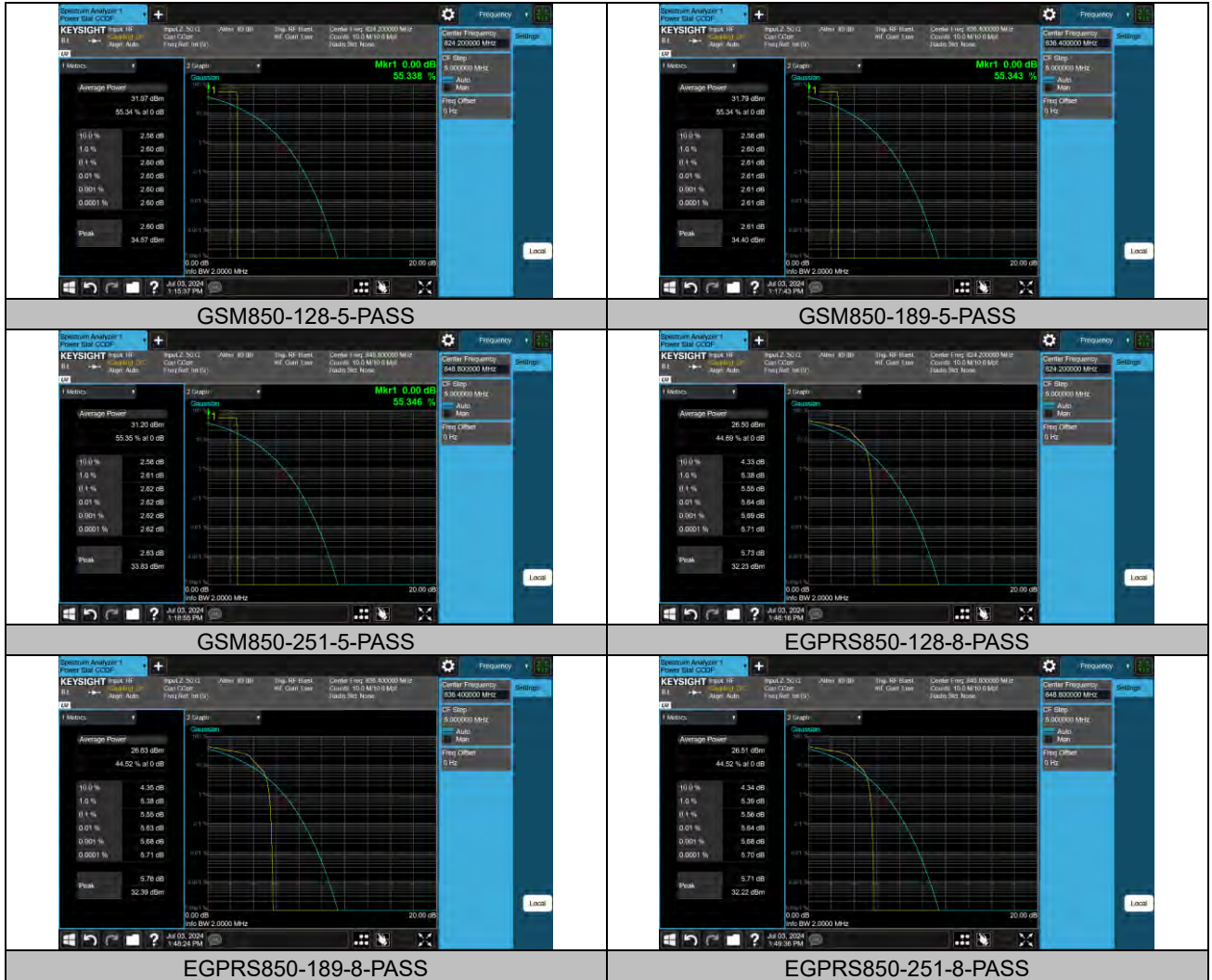
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	2.60	13	PASS
GSM850	189	2.61	13	PASS
GSM850	251	2.62	13	PASS
EGPRS850	128	5.55	13	PASS
EGPRS850	189	5.55	13	PASS
EGPRS850	251	5.56	13	PASS



BUREAU VERITAS

Test Report No.: W7L-P24050016RF05

### Test Graphs





## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

### Test Result

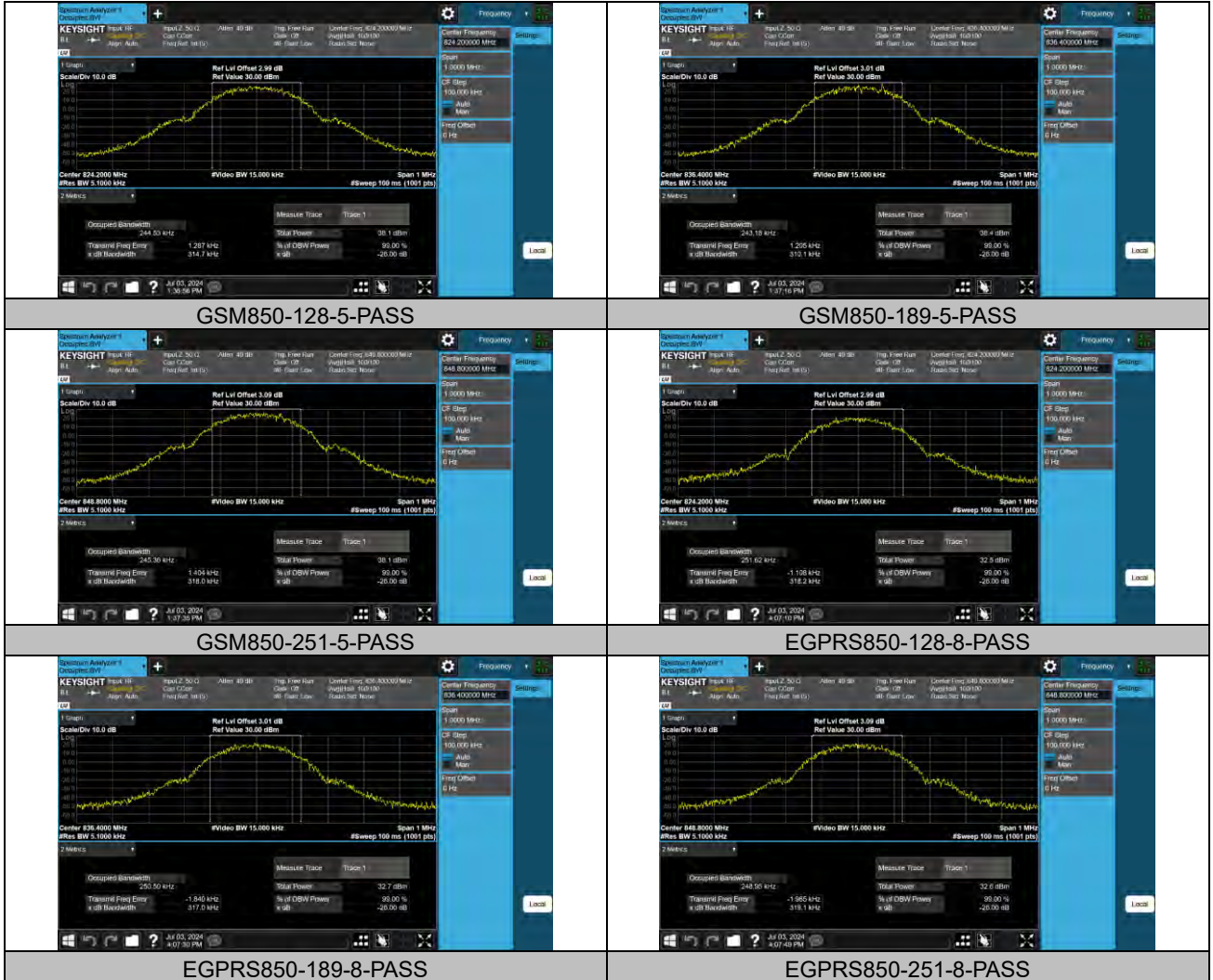
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24453	0.3147	---	PASS
GSM850	189	0.24318	0.3101	---	PASS
GSM850	251	0.24536	0.3180	---	PASS
EGPRS850	128	0.25162	0.3182	---	PASS
EGPRS850	189	0.25050	0.3170	---	PASS
EGPRS850	251	0.24895	0.3191	---	PASS



BUREAU VERITAS

Test Report No.: W7L-P24050016RF05

### Test Graphs







**BUREAU**  
**VERITAS**

Test Report No.: W7L-P24050016RF05

## BAND EDGE

### Test Result

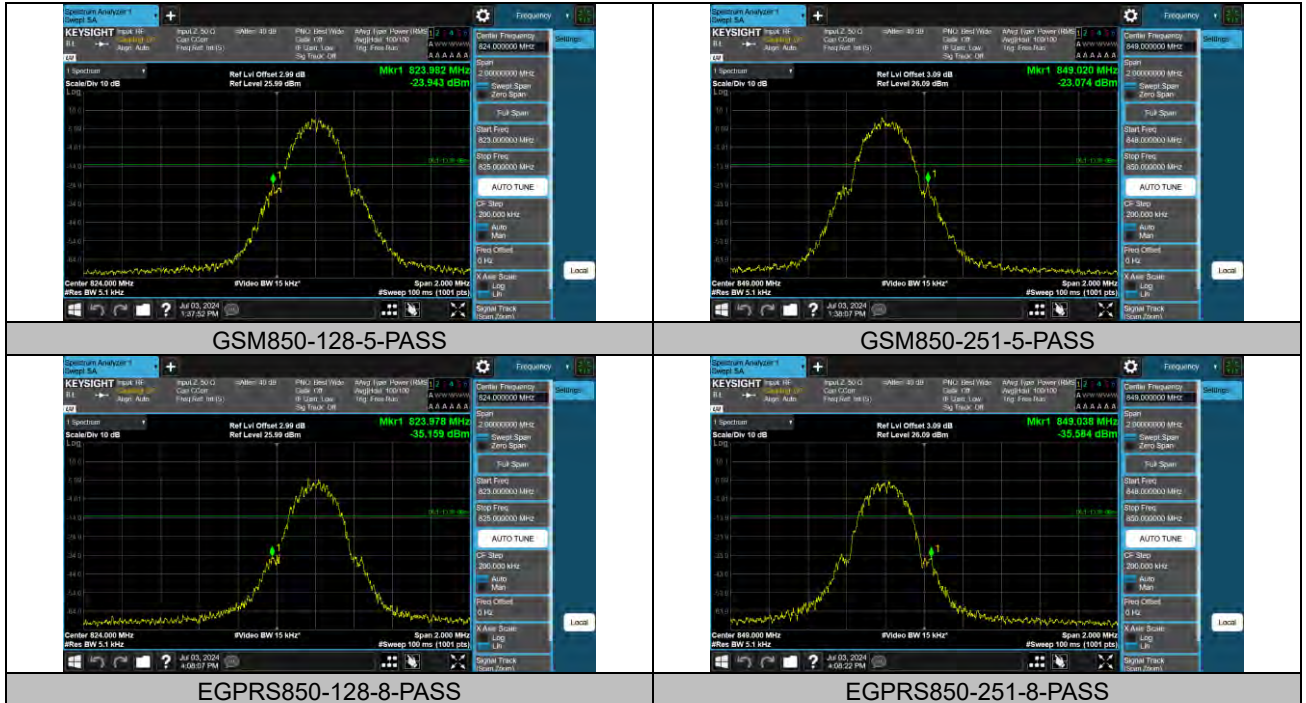
Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.98	-23.94	-13	PASS
GSM850	251	849.02	-23.07	-13	PASS
EGPRS850	128	823.98	-35.16	-13	PASS
EGPRS850	251	849.04	-35.58	-13	PASS



BUREAU VERITAS

Test Report No.: W7L-P24050016RF05

### Test Graphs



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## CONDUCTED SPURIOUS EMISSION

### Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	30~1000MHz	929.38	-49.18	-13	PASS
GSM850	128	1000~10000MHz	3842.2	-41.6	-13	PASS
GSM850	189	30~1000MHz	937.34	-49.19	-13	PASS
GSM850	189	1000~10000MHz	3833.65	-41.53	-13	PASS
GSM850	251	30~1000MHz	963.82	-49.23	-13	PASS
GSM850	251	1000~10000MHz	3825.1	-41.47	-13	PASS
EGPRS850	128	30~1000MHz	934.62	-49.24	-13	PASS
EGPRS850	128	1000~10000MHz	3827.8	-41.5	-13	PASS
EGPRS850	189	30~1000MHz	967.12	-49.44	-13	PASS
EGPRS850	189	1000~10000MHz	3873.7	-41.57	-13	PASS
EGPRS850	251	30~1000MHz	958	-49.32	-13	PASS
EGPRS850	251	1000~10000MHz	3868.75	-41.67	-13	PASS



BUREAU VERITAS

Test Report No.: W7L-P24050016RF05

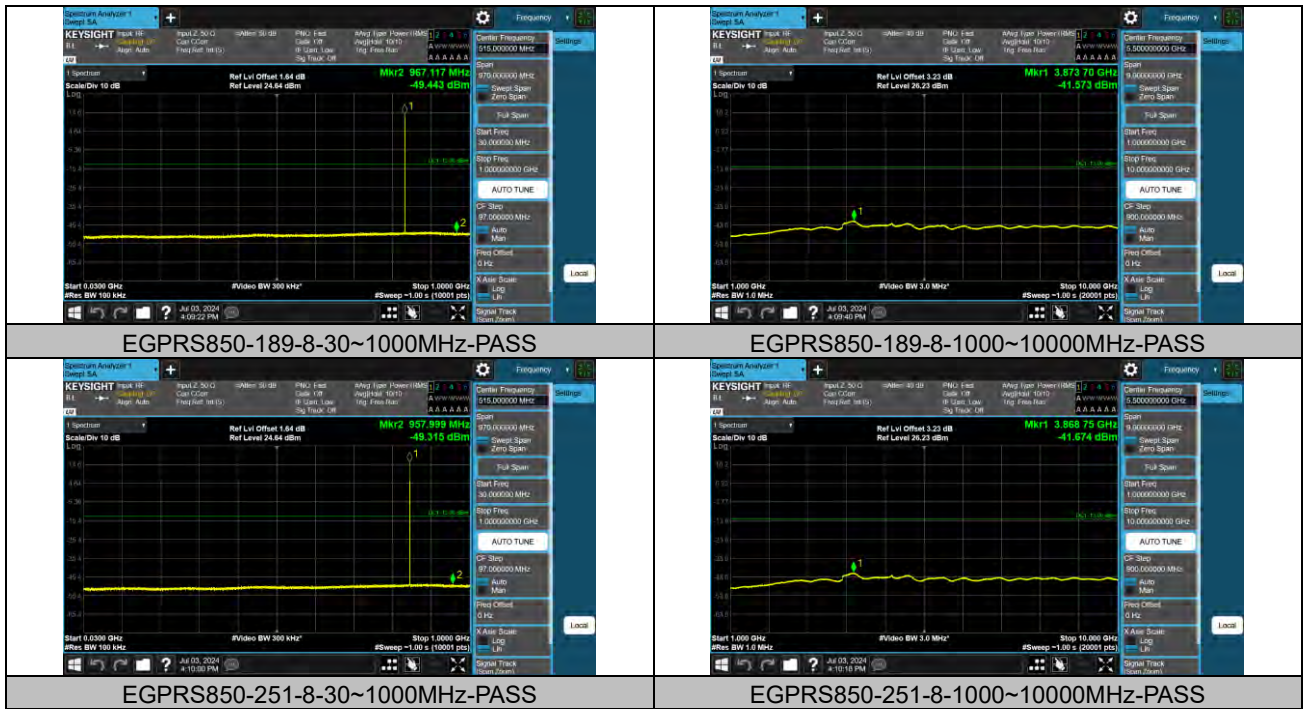
### Test Graphs





BUREAU VERITAS

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### FREQUENCY STABILITY

#### Test Result

Voltage									
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
GSM850	128	VN	NT	-290.00	-0.351856	824.07807	---	824-849	PASS
GSM850	128	VL	NT	-540.00	-0.655181	824.076345	---	824-849	PASS
GSM850	128	VH	NT	-70.00	-0.084931	824.076235	---	824-849	PASS
GSM850	251	VN	NT	790.00	0.930726	---	848.924095	824-849	PASS
GSM850	251	VL	NT	400.00	0.471254	---	848.92243	824-849	PASS
GSM850	251	VH	NT	500.00	0.589067	---	848.92293	824-849	PASS



Temperature									
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
GSM850	128	NV	-30	-340.00	-0.412521	824.076775	---	824-849	PASS
GSM850	128	NV	-20	-640.00	-0.776511	824.076795	---	824-849	PASS
GSM850	128	NV	-10	370.00	0.448920	824.07826	---	824-849	PASS
GSM850	128	NV	0	1190.00	1.443824	824.0793	---	824-849	PASS
GSM850	128	NV	10	-430.00	-0.521718	824.077725	---	824-849	PASS
GSM850	128	NV	20	30.00	0.036399	824.0776	---	824-849	PASS
GSM850	128	NV	30	-400.00	-0.485319	824.07724	---	824-849	PASS
GSM850	128	NV	40	-1030.00	-1.249697	824.076915	---	824-849	PASS
GSM850	128	NV	50	1260.00	1.528755	824.07926	---	824-849	PASS
GSM850	251	NV	-30	1230.00	1.449105	---	848.9244	824-849	PASS
GSM850	251	NV	-20	180.00	0.212064	---	848.922315	824-849	PASS
GSM850	251	NV	-10	140.00	0.164939	---	848.921335	824-849	PASS
GSM850	251	NV	0	-860.00	-1.013195	---	848.920845	824-849	PASS
GSM850	251	NV	10	260.00	0.306315	---	848.922235	824-849	PASS
GSM850	251	NV	20	480.00	0.565504	---	848.92224	824-849	PASS
GSM850	251	NV	30	1210.00	1.425542	---	848.924185	824-849	PASS
GSM850	251	NV	40	730.00	0.860038	---	848.92263	824-849	PASS
GSM850	251	NV	50	1320.00	1.555137	---	848.924535	824-849	PASS



Test Report No.: W7L-P24050016RF05

## WCDMA BAND 5

### PEAK-TO-AVERAGE RATIO

#### Test Result

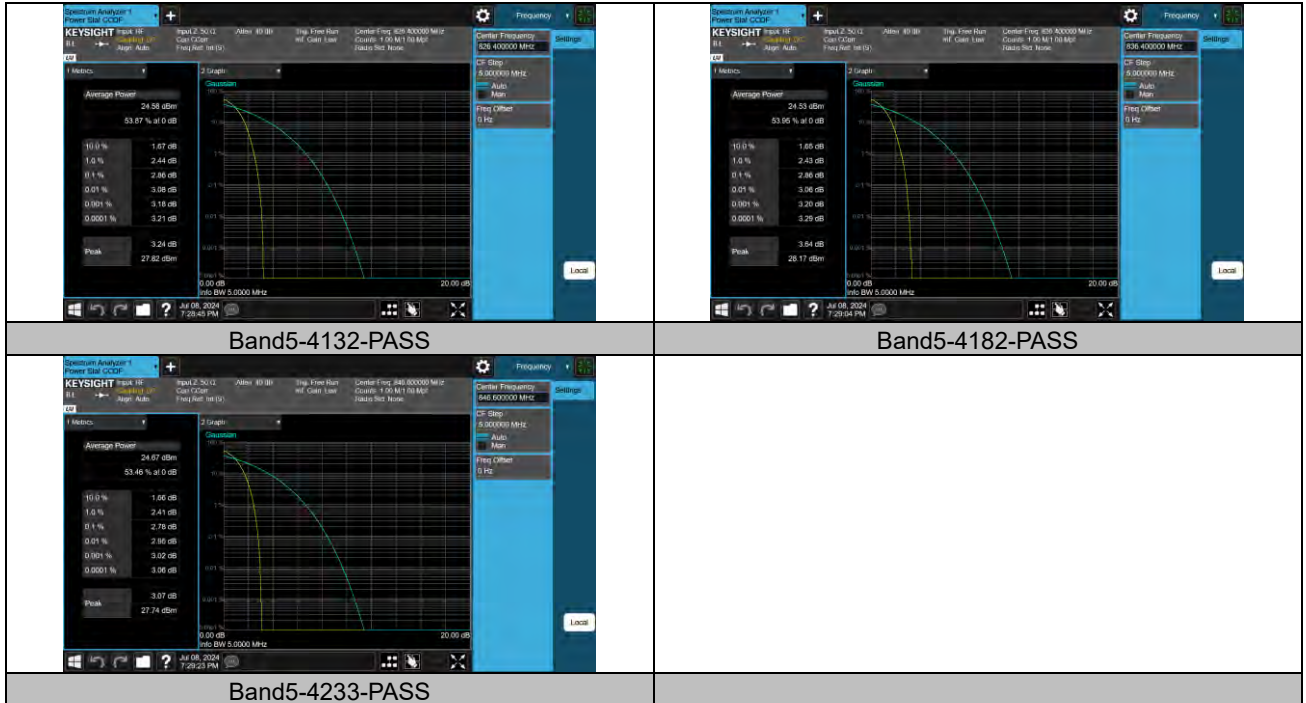
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	2.86	13	PASS
Band5	4182	2.86	13	PASS
Band5	4233	2.78	13	PASS



BUREAU VERITAS

Test Report No.: W7L-P24050016RF05

### Test Graphs





## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

### Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band5	4132	4.1620	4.704	---	PASS
Band5	4182	4.1634	4.710	---	PASS
Band5	4233	4.1639	4.700	---	PASS

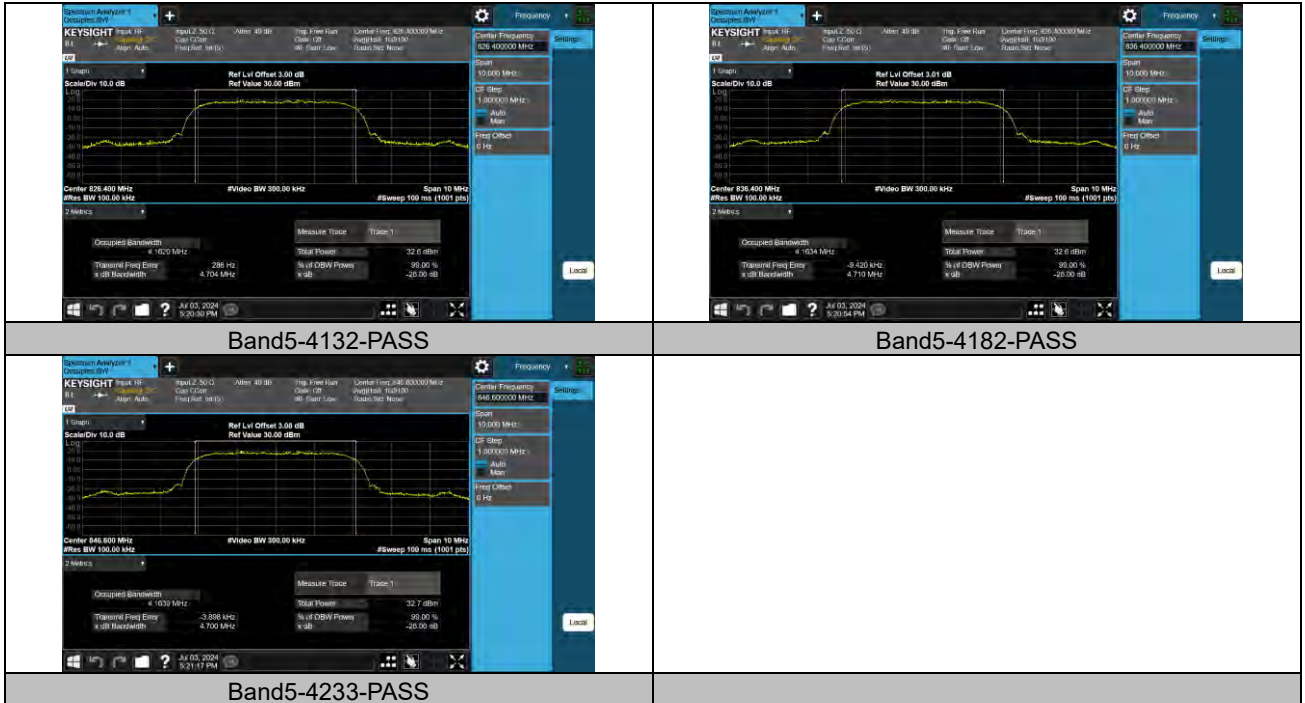




BUREAU VERITAS

Test Report No.: W7L-P24050016RF05

### Test Graphs





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**VERITAS**

**Test Report No.: W7L-P24050016RF05**

## **BAND EDGE**

### **Test Result**

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	823.90	-27.72	-13	PASS
Band5	4233	849.00	-28.09	-13	PASS



BUREAU VERITAS

Test Report No.: W7L-P24050016RF05

### Test Graphs





## CONDUCTED SPURIOUS EMISSION

### Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	30~1000MHz	946.07	-56.39	-13	PASS
Band5	4132	1000~10000MHz	3817	-40.78	-13	PASS
Band5	4182	30~1000MHz	589.88	-57.41	-13	PASS
Band5	4182	1000~10000MHz	3866.5	-40.7	-13	PASS
Band5	4233	30~1000MHz	744.6	-56.61	-13	PASS
Band5	4233	1000~10000MHz	3876.4	-40.53	-13	PASS



BUREAU VERITAS

Test Report No.: W7L-P24050016RF05

### Test Graphs



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### FREQUENCY STABILITY

#### Test Result

Voltage									
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band5	4132	VN	NT	60.00	0.072604	824.32081	---	824-849	PASS
Band5	4132	VL	NT	-1290.00	-1.560987	824.32081	---	824-849	PASS
Band5	4132	VH	NT	-3070.00	-3.714908	824.31848	---	824-849	PASS
Band5	4233	VN	NT	-7610.00	-8.988897	---	848.66959	824-849	PASS
Band5	4233	VL	NT	-4090.00	-4.831089	---	848.67661	824-849	PASS
Band5	4233	VH	NT	-6920.00	-8.173872	---	848.67238	824-849	PASS



Temperature									
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band5	4132	NV	-30	-760.00	-0.919652	824.31939	---	824-849	PASS
Band5	4132	NV	-20	130.00	0.157309	824.32143	---	824-849	PASS
Band5	4132	NV	-10	-4310.00	-5.215392	824.31524	---	824-849	PASS
Band5	4132	NV	0	2640.00	3.194579	824.32099	---	824-849	PASS
Band5	4132	NV	10	2500.00	3.025169	824.31875	---	824-849	PASS
Band5	4132	NV	20	-810.00	-0.980155	824.31994	---	824-849	PASS
Band5	4132	NV	30	-2000.00	-2.420136	824.31915	---	824-849	PASS
Band5	4132	NV	40	-2670.00	-3.230881	824.31808	---	824-849	PASS
Band5	4132	NV	50	-860.00	-1.040658	824.31949	---	824-849	PASS
Band5	4233	NV	-30	-4080.00	-4.819277	---	848.67552	824-849	PASS
Band5	4233	NV	-20	-2650.00	-3.130168	---	848.67925	824-849	PASS
Band5	4233	NV	-10	1930.00	2.279707	---	848.68483	824-849	PASS
Band5	4233	NV	0	-4730.00	-5.587054	---	848.67427	824-849	PASS
Band5	4233	NV	10	-2660.00	-3.141980	---	848.67824	824-849	PASS
Band5	4233	NV	20	-7260.00	-8.575478	---	848.67009	824-849	PASS
Band5	4233	NV	30	-4530.00	-5.350815	---	848.67397	824-849	PASS
Band5	4233	NV	40	-2920.00	-3.449090	---	848.67788	824-849	PASS
Band5	4233	NV	50	-5260.00	-6.213088	---	848.67684	824-849	PASS





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Test Report No.: W7L-P24050016RF05

## LTE BAND 5

### PEAK-TO-AVERAGE RATIO(CCDF)

#### Test Result

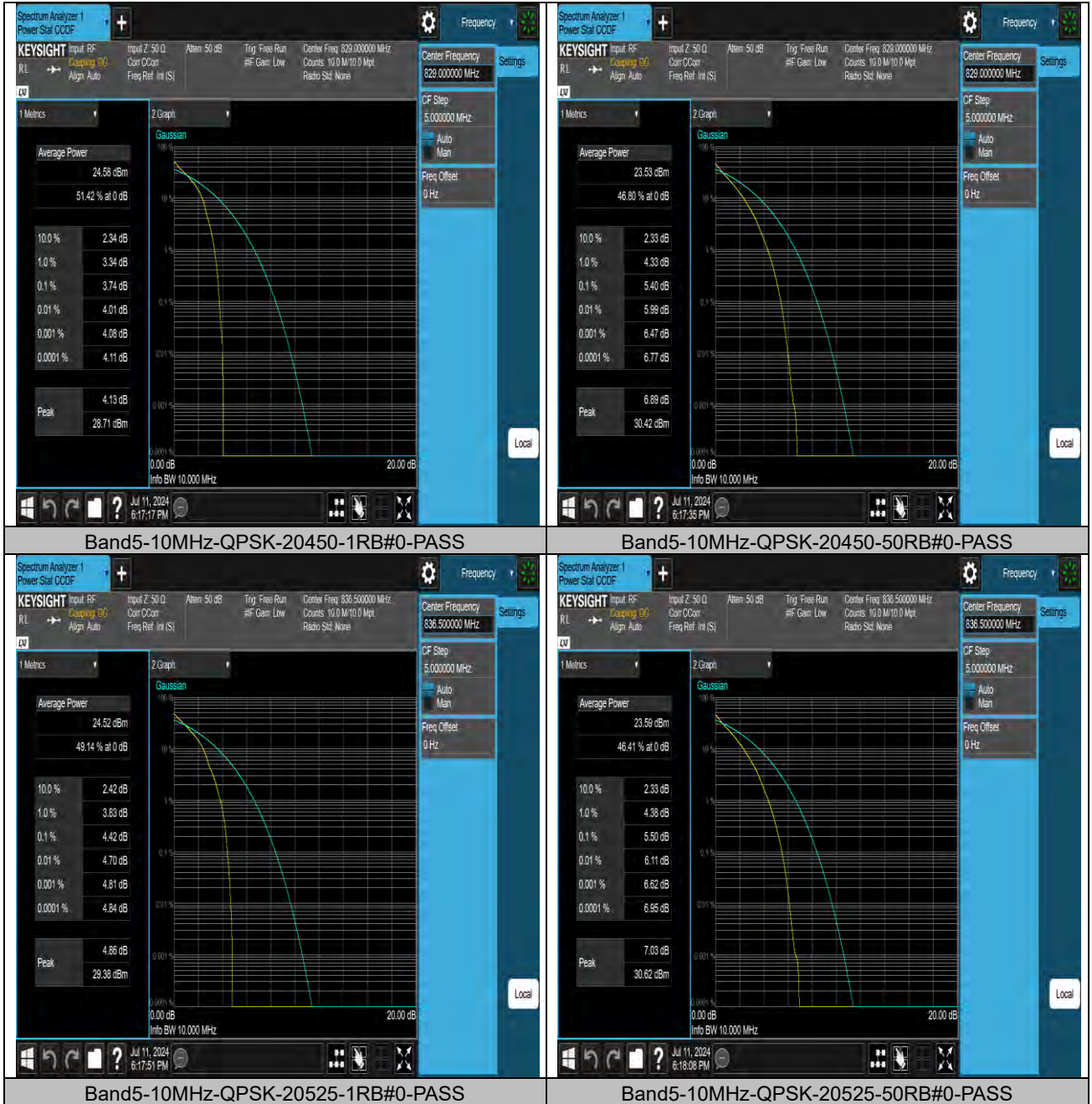
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	1RB#0	3.74	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.40	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.42	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.50	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	3.92	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.19	13	PASS



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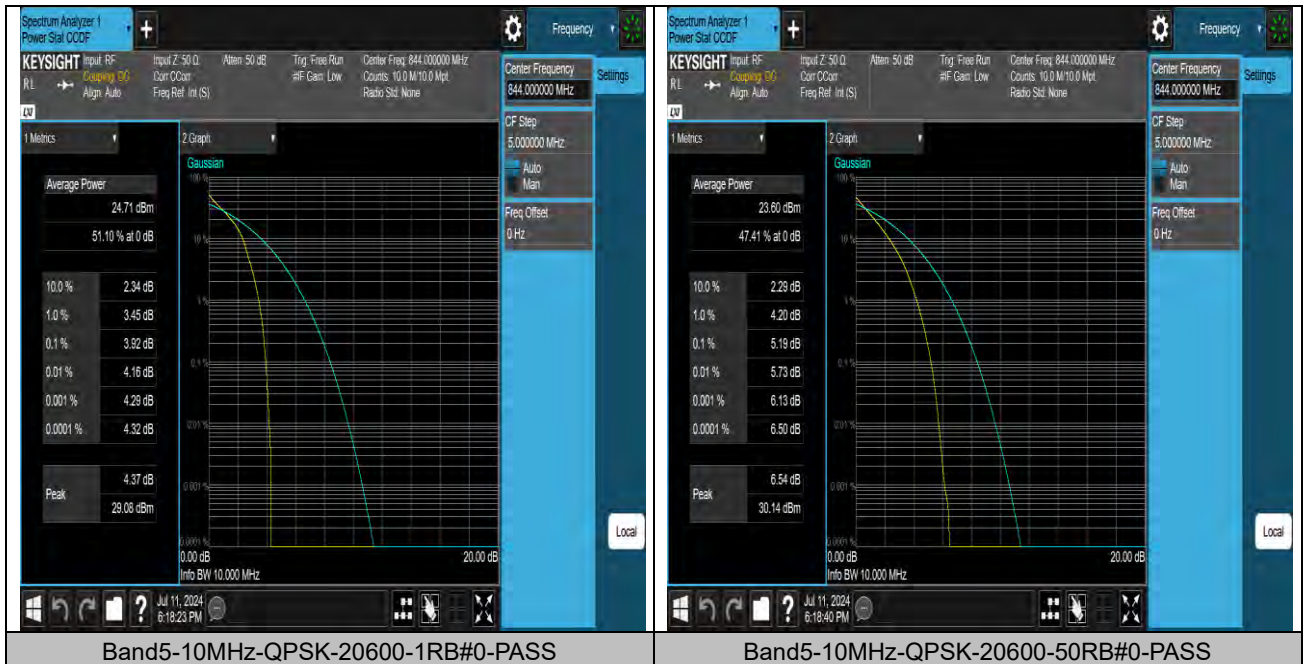
### Test Graphs





**BUREAU  
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**Test Report No.: W7L-P24050016RF05**





## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0948	1.269	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0933	1.296	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0875	1.298	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0970	1.300	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0871	1.290	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0961	1.299	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6831	2.911	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6887	2.891	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6846	2.887	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6857	2.900	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6824	2.914	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6837	2.904	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4993	4.955	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4933	4.917	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4916	4.948	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5014	4.963	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4887	4.937	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4881	5.134	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9709	9.829	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9986	9.793	PASS
Band5	10MHz	QPSK	20600	50RB#0	9.0013	9.817	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9801	9.749	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9959	9.790	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9725	9.748	PASS





### Test Graphs



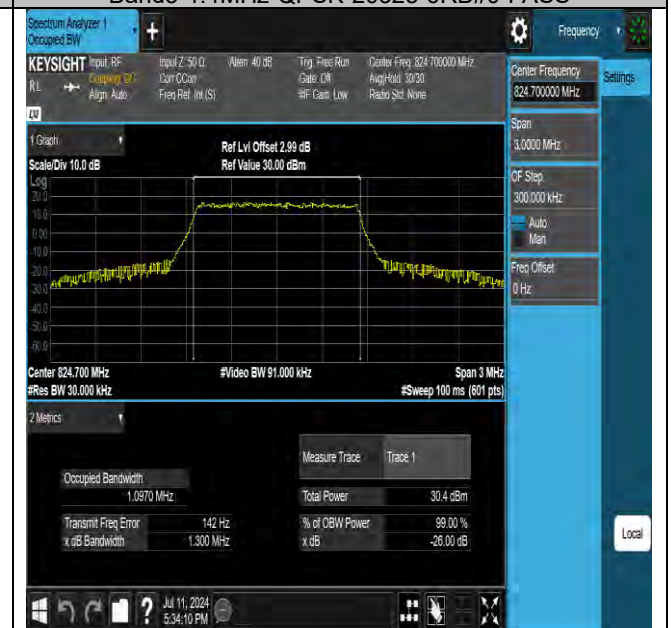
Band5-1.4MHz-QPSK-20407-6RB#0-PASS



Band5-1.4MHz-QPSK-20525-6RB#0-PASS



Band5-1.4MHz-QPSK-20643-6RB#0-PASS

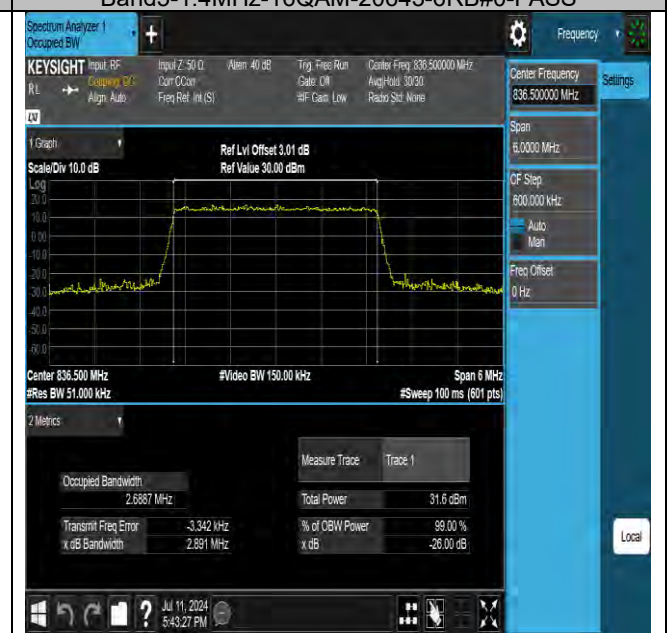
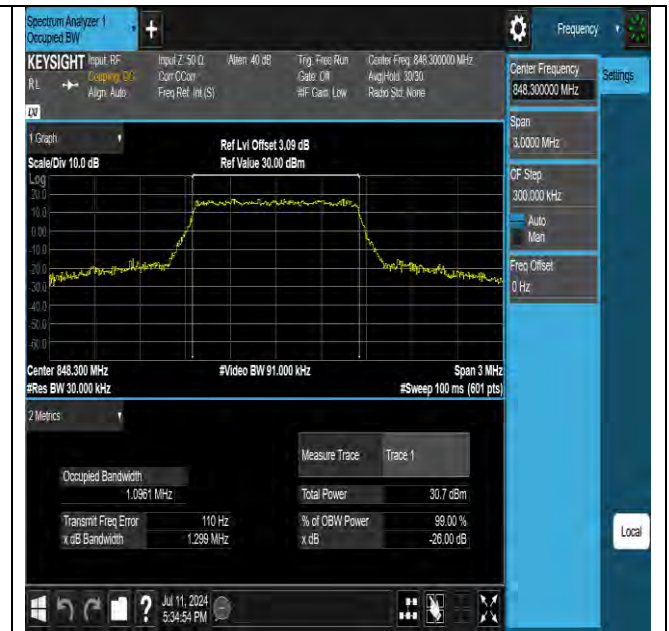
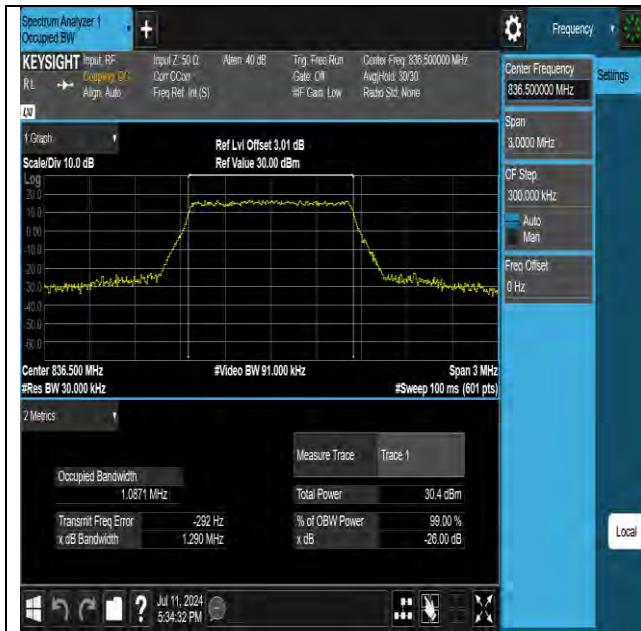


Band5-1.4MHz-16QAM-20407-6RB#0-PASS



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Band5-3MHz-QPSK-20635-15RB#0-PASS



Band5-3MHz-16QAM-20415-15RB#0-PASS



Band5-3MHz-16QAM-20525-15RB#0-PASS



Band5-3MHz-16QAM-20635-15RB#0-PASS

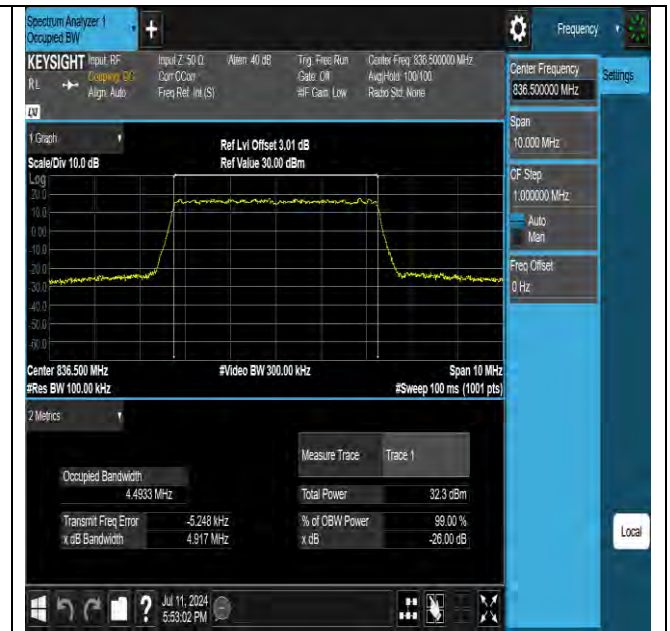


BUREAU VERITAS

Test Report No.: W7L-P24050016RF05



Band5-5MHz-QPSK-20425-25RB#0-PASS



Band5-5MHz-QPSK-20525-25RB#0-PASS



Band5-5MHz-QPSK-20625-25RB#0-PASS



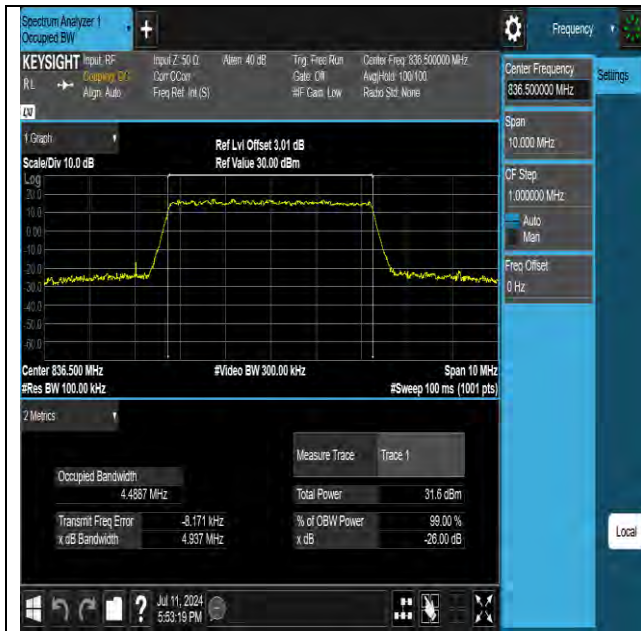
Band5-5MHz-16QAM-20425-25RB#0-PASS



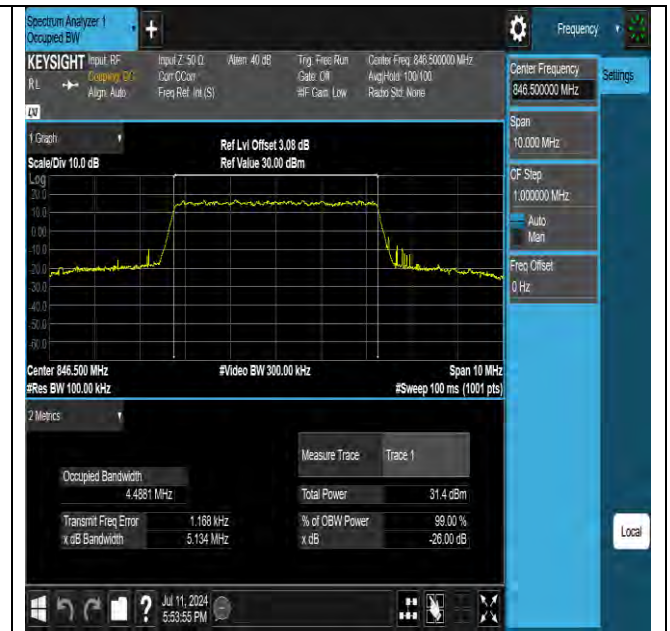


BUREAU VERITAS

Test Report No.: W7L-P24050016RF05



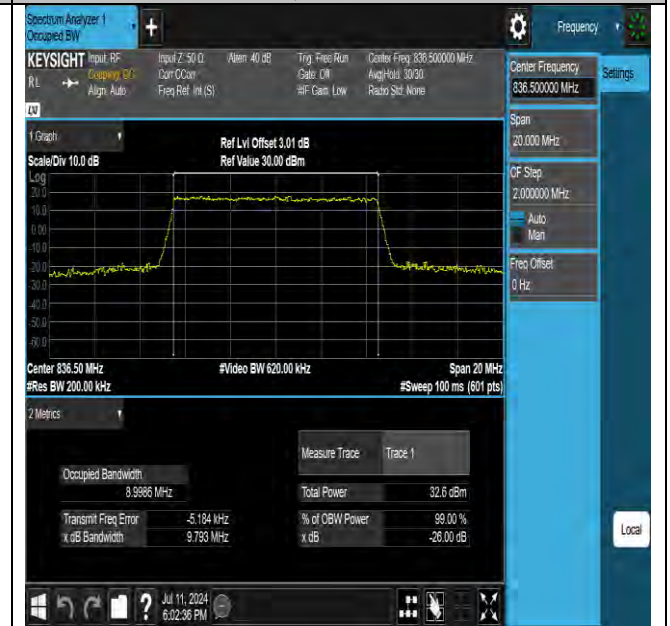
Band5-5MHz-16QAM-20525-25RB#0-PASS



Band5-5MHz-16QAM-20625-25RB#0-PASS



Band5-10MHz-QPSK-20450-50RB#0-PASS



Band5-10MHz-QPSK-20525-50RB#0-PASS

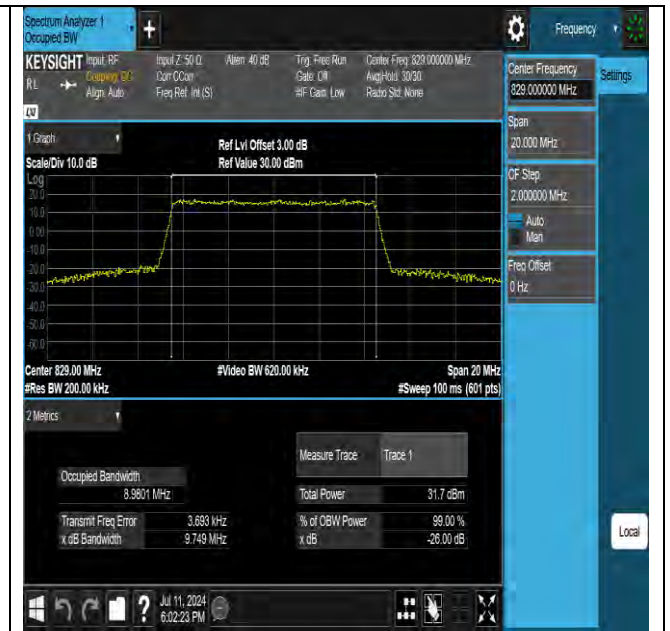


BUREAU VERITAS

Test Report No.: W7L-P24050016RF05



Band5-10MHz-QPSK-20600-50RB#0-PASS



Band5-10MHz-16QAM-20450-50RB#0-PASS



Band5-10MHz-16QAM-20525-50RB#0-PASS



Band5-10MHz-16QAM-20600-50RB#0-PASS



## BAND EDGE

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-22.81	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-28.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-23.04	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-27.17	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-24.50	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-27.52	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-26.31	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-30.08	PASS
Band5	3MHz	QPSK	20415	1RB#0	-22.90	PASS
Band5	3MHz	QPSK	20415	15RB#0	-32.86	PASS
Band5	3MHz	QPSK	20635	1RB#14	-22.09	PASS
Band5	3MHz	QPSK	20635	15RB#0	-32.39	PASS
Band5	3MHz	16QAM	20415	1RB#0	-25.27	PASS
Band5	3MHz	16QAM	20415	15RB#0	-34.74	PASS
Band5	3MHz	16QAM	20635	1RB#14	-22.64	PASS
Band5	3MHz	16QAM	20635	15RB#0	-34.08	PASS
Band5	5MHz	QPSK	20425	1RB#0	-27.34	PASS
Band5	5MHz	QPSK	20425	25RB#0	-33.22	PASS
Band5	5MHz	QPSK	20625	1RB#24	-25.13	PASS
Band5	5MHz	QPSK	20625	25RB#0	-31.80	PASS
Band5	5MHz	16QAM	20425	1RB#0	-27.19	PASS
Band5	5MHz	16QAM	20425	25RB#0	-35.43	PASS
Band5	5MHz	16QAM	20625	1RB#24	-26.03	PASS
Band5	5MHz	16QAM	20625	25RB#0	-34.49	PASS
Band5	10MHz	QPSK	20450	1RB#0	-35.66	PASS
Band5	10MHz	QPSK	20450	50RB#0	-37.18	PASS
Band5	10MHz	QPSK	20600	1RB#49	-34.72	PASS
Band5	10MHz	QPSK	20600	50RB#0	-31.79	PASS
Band5	10MHz	16QAM	20450	1RB#0	-35.37	PASS
Band5	10MHz	16QAM	20450	50RB#0	-38.59	PASS
Band5	10MHz	16QAM	20600	1RB#49	-36.32	PASS
Band5	10MHz	16QAM	20600	50RB#0	-34.65	PASS

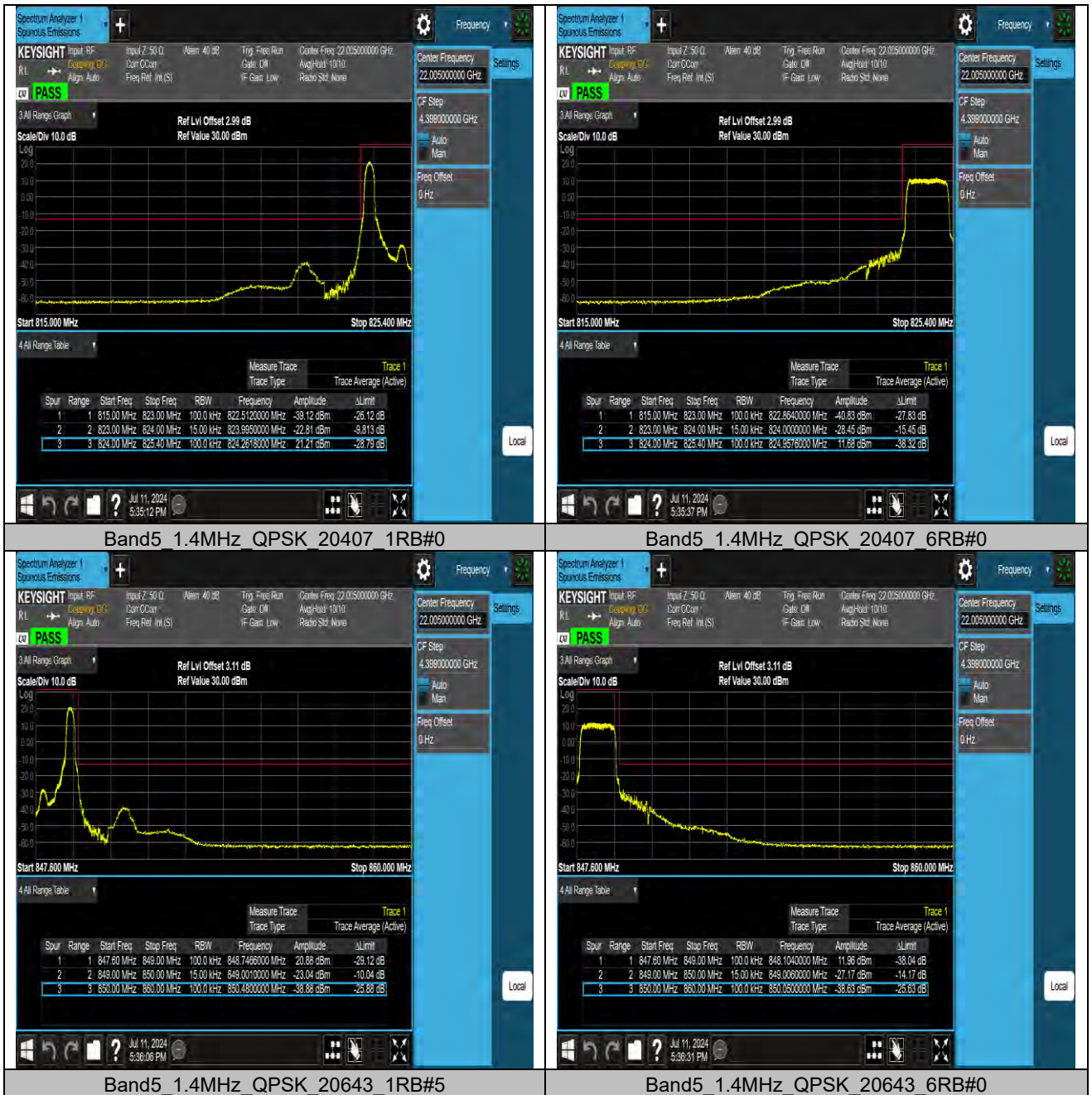




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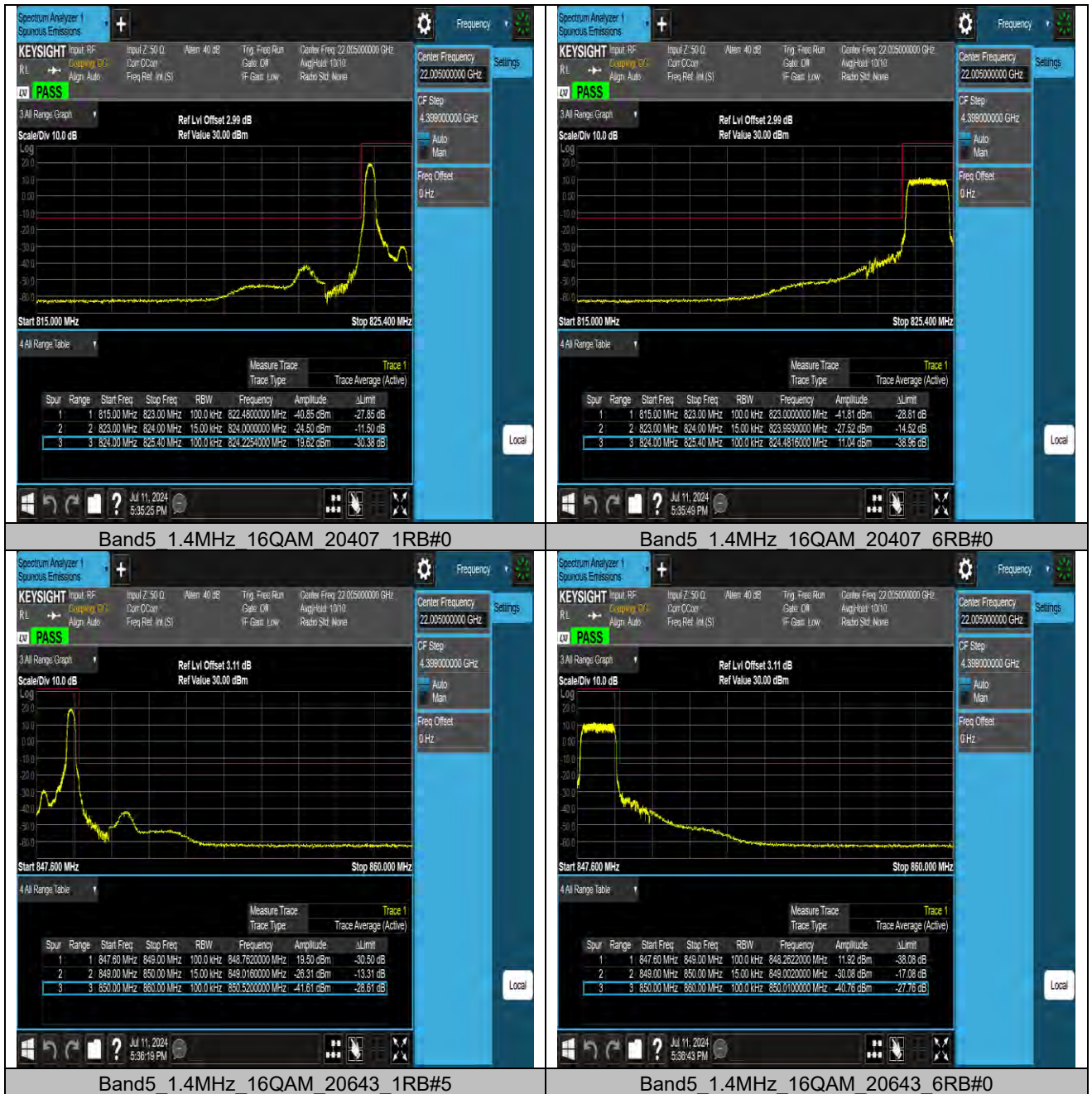
### Test Graphs





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Band5 3MHz QPSK 20415 1RB#0

Band5 3MHz QPSK 20415 15RB#0



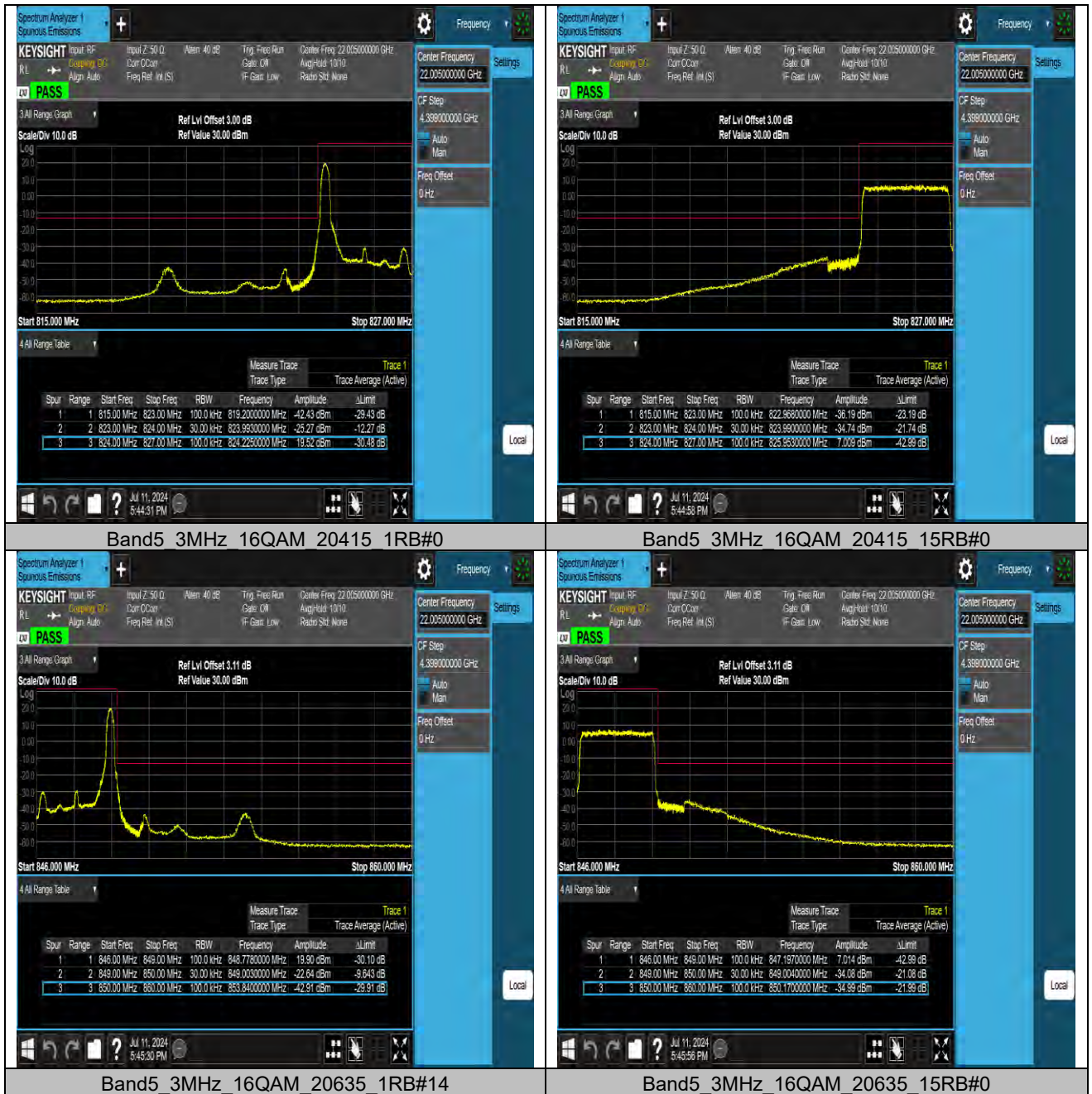
Band5 3MHz QPSK 20635 1RB#14

Band5 3MHz QPSK 20635 15RB#0



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**Test Report No.: W7L-P24050016RF05**

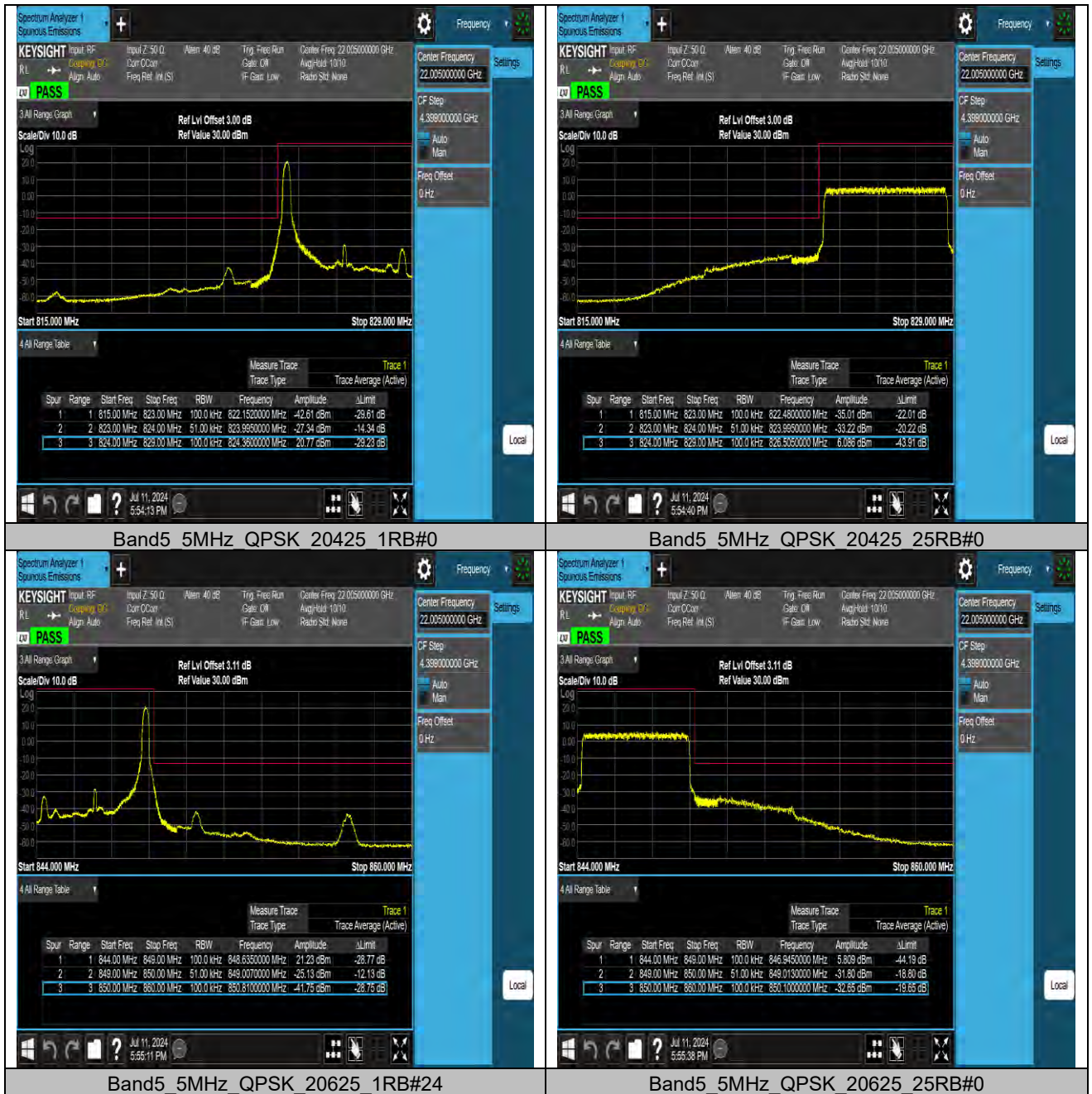






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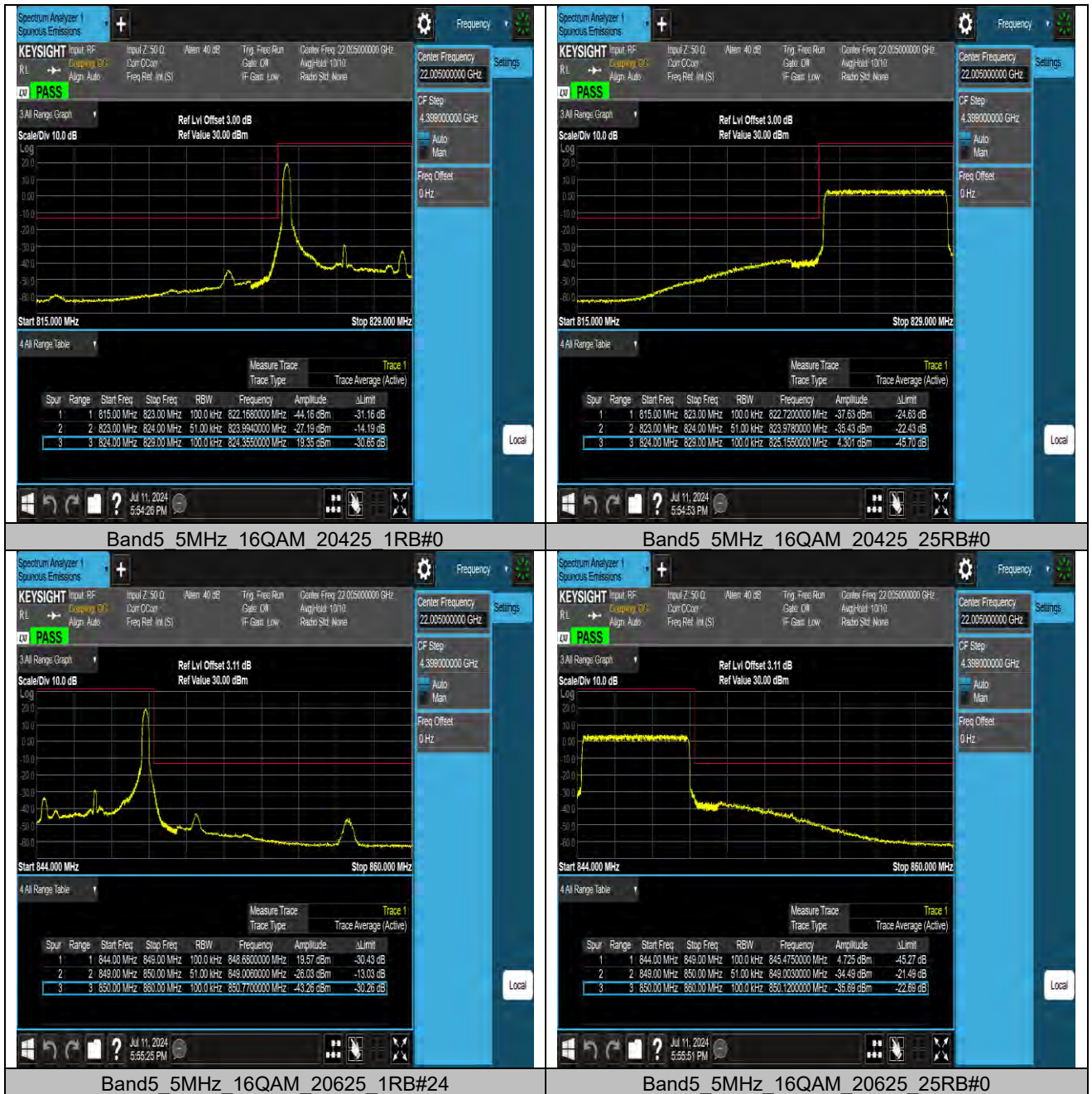
**Test Report No.: W7L-P24050016RF05**





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**Test Report No.: W7L-P24050016RF05**

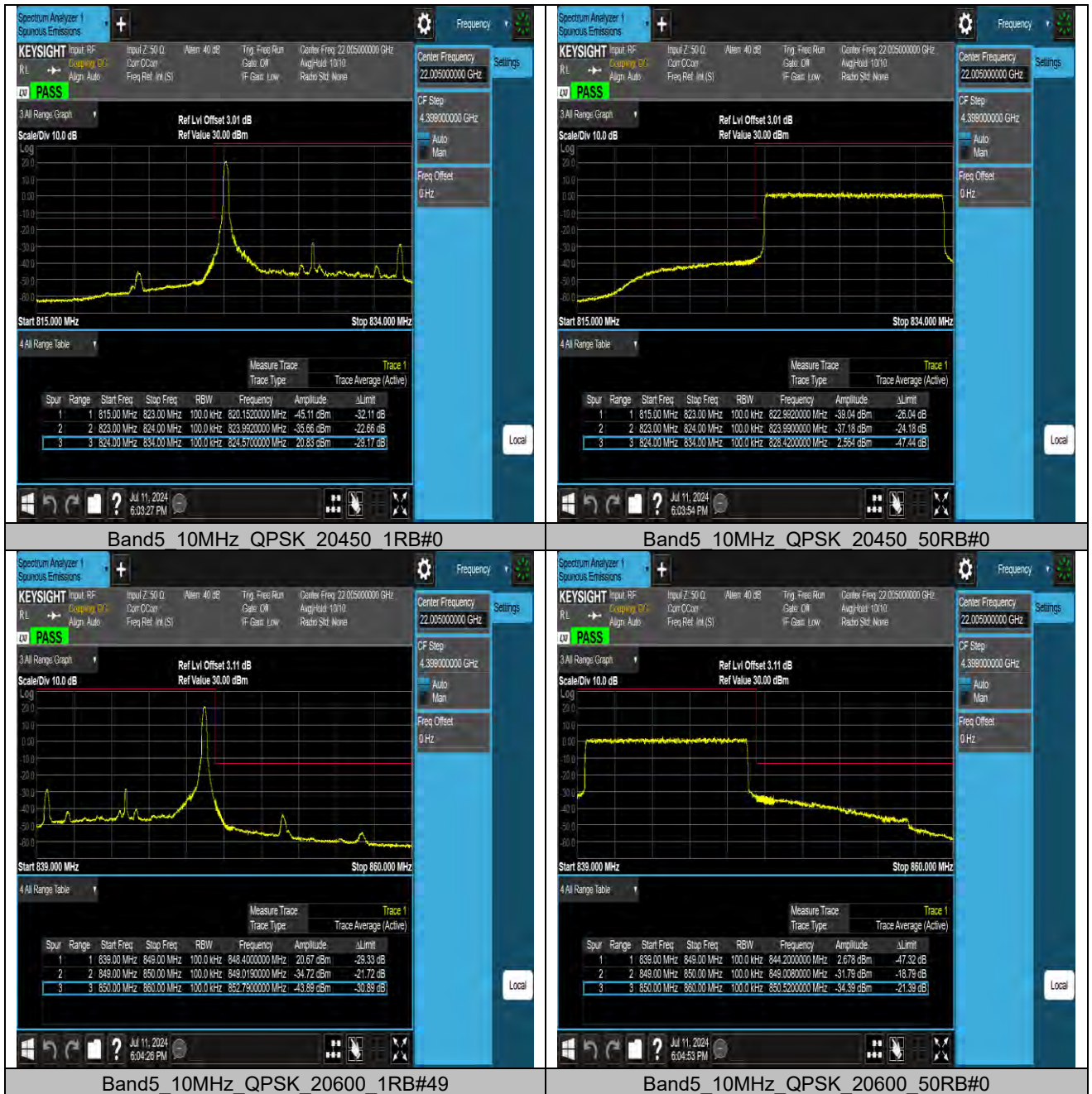






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Band5 10MHz 16QAM 20450 1RB#0



Band5 10MHz 16QAM 20450 50RB#0



Band5 10MHz 16QAM 20600 1RB#49



Band5 10MHz 16QAM 20600 50RB#0



### CONDUCTED SPURIOUS EMISSION

#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	30~1000	-49.40	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	1000~10000	-38.19	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	30~1000	-49.83	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	1000~10000	-38.20	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	30~1000	-47.40	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	1000~10000	-38.23	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	30~1000	-48.46	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	1000~10000	-38.13	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	30~1000	-49.28	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	1000~10000	-38.18	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	30~1000	-46.28	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1000~10000	-38.22	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	30~1000	-49.18	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	1000~10000	-38.18	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	30~1000	-49.31	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	1000~10000	-38.12	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	30~1000	-47.67	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1000~10000	-38.15	PASS
Band5	3MHz	QPSK	20415	1RB#0	30~1000	-55.88	PASS
Band5	3MHz	QPSK	20415	1RB#0	1000~10000	-38.06	PASS
Band5	3MHz	QPSK	20415	1RB#14	30~1000	-55.46	PASS
Band5	3MHz	QPSK	20415	1RB#14	1000~10000	-37.76	PASS
Band5	3MHz	QPSK	20415	15RB#0	30~1000	-52.41	PASS
Band5	3MHz	QPSK	20415	15RB#0	1000~10000	-37.94	PASS
Band5	3MHz	QPSK	20525	1RB#0	30~1000	-55.14	PASS
Band5	3MHz	QPSK	20525	1RB#0	1000~10000	-38.18	PASS
Band5	3MHz	QPSK	20525	1RB#14	30~1000	-54.80	PASS
Band5	3MHz	QPSK	20525	1RB#14	1000~10000	-38.16	PASS
Band5	3MHz	QPSK	20525	15RB#0	30~1000	-50.17	PASS
Band5	3MHz	QPSK	20525	15RB#0	1000~10000	-38.20	PASS
Band5	3MHz	QPSK	20635	1RB#0	30~1000	-55.11	PASS
Band5	3MHz	QPSK	20635	1RB#0	1000~10000	-38.12	PASS
Band5	3MHz	QPSK	20635	1RB#14	30~1000	-55.42	PASS
Band5	3MHz	QPSK	20635	1RB#14	1000~10000	-38.11	PASS
Band5	3MHz	QPSK	20635	15RB#0	30~1000	-52.08	PASS
Band5	3MHz	QPSK	20635	15RB#0	1000~10000	-38.16	PASS
Band5	5MHz	QPSK	20425	1RB#0	30~1000	-57.33	PASS
Band5	5MHz	QPSK	20425	1RB#0	1000~10000	-38.20	PASS
Band5	5MHz	QPSK	20425	1RB#24	30~1000	-57.27	PASS
Band5	5MHz	QPSK	20425	1RB#24	1000~10000	-38.23	PASS
Band5	5MHz	QPSK	20425	25RB#0	30~1000	-54.10	PASS
Band5	5MHz	QPSK	20425	25RB#0	1000~10000	-37.98	PASS
Band5	5MHz	QPSK	20525	1RB#0	30~1000	-57.27	PASS
Band5	5MHz	QPSK	20525	1RB#0	1000~10000	-38.05	PASS





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Band5	5MHz	QPSK	20525	1RB#24	30~1000	-57.21	PASS
Band5	5MHz	QPSK	20525	1RB#24	1000~10000	-38.10	PASS
Band5	5MHz	QPSK	20525	25RB#0	30~1000	-52.87	PASS
Band5	5MHz	QPSK	20525	25RB#0	1000~10000	-38.13	PASS
Band5	5MHz	QPSK	20625	1RB#0	30~1000	-57.05	PASS
Band5	5MHz	QPSK	20625	1RB#0	1000~10000	-38.08	PASS
Band5	5MHz	QPSK	20625	1RB#24	30~1000	-57.04	PASS
Band5	5MHz	QPSK	20625	1RB#24	1000~10000	-38.09	PASS
Band5	5MHz	QPSK	20625	25RB#0	30~1000	-53.75	PASS
Band5	5MHz	QPSK	20625	25RB#0	1000~10000	-38.07	PASS
Band5	10MHz	QPSK	20450	1RB#0	30~1000	-57.24	PASS
Band5	10MHz	QPSK	20450	1RB#0	1000~10000	-38.13	PASS
Band5	10MHz	QPSK	20450	1RB#49	30~1000	-57.38	PASS
Band5	10MHz	QPSK	20450	1RB#49	1000~10000	-38.15	PASS
Band5	10MHz	QPSK	20450	50RB#0	30~1000	-56.59	PASS
Band5	10MHz	QPSK	20450	50RB#0	1000~10000	-38.16	PASS
Band5	10MHz	QPSK	20525	1RB#0	30~1000	-57.05	PASS
Band5	10MHz	QPSK	20525	1RB#0	1000~10000	-38.10	PASS
Band5	10MHz	QPSK	20525	1RB#49	30~1000	-57.38	PASS
Band5	10MHz	QPSK	20525	1RB#49	1000~10000	-38.18	PASS
Band5	10MHz	QPSK	20525	50RB#0	30~1000	-57.37	PASS
Band5	10MHz	QPSK	20525	50RB#0	1000~10000	-38.12	PASS
Band5	10MHz	QPSK	20600	1RB#0	30~1000	-57.35	PASS
Band5	10MHz	QPSK	20600	1RB#0	1000~10000	-38.07	PASS
Band5	10MHz	QPSK	20600	1RB#49	30~1000	-57.33	PASS
Band5	10MHz	QPSK	20600	1RB#49	1000~10000	-38.09	PASS
Band5	10MHz	QPSK	20600	50RB#0	30~1000	-56.35	PASS
Band5	10MHz	QPSK	20600	50RB#0	1000~10000	-38.23	PASS

### Test Graphs



Band5 1.4MHz QPSK 20407 1RB#0 30~1000 30~1000 Band5 1.4MHz QPSK 20407 1RB#0 1000~10000 1000~10000

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Band5 1.4MHz QPSK 20407 1RB#5 30~1000 30~1000

Band5 1.4MHz QPSK 20407 1RB#5 1000~10000 1000~10000



Band5 1.4MHz QPSK 20407 6RB#0 30~1000 30~1000

Band5 1.4MHz QPSK 20407 6RB#0 1000~10000 1000~10000





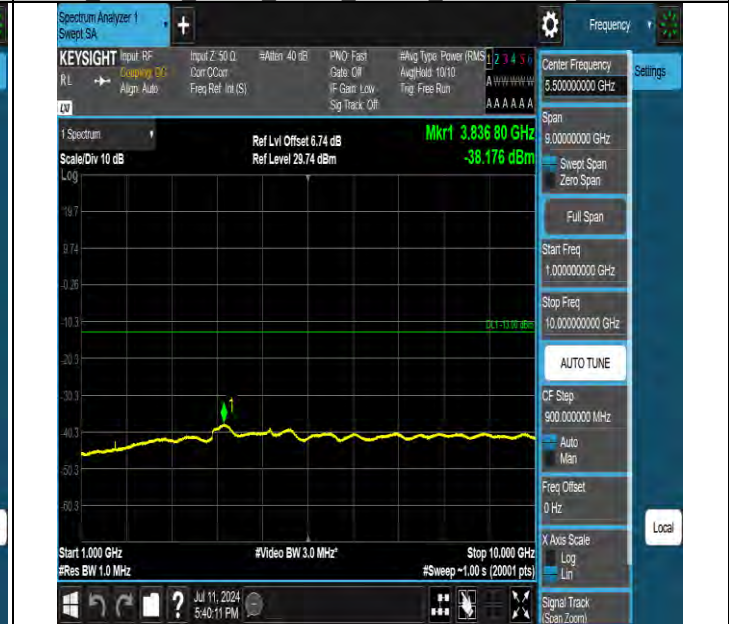
BUREAU VERITAS

Test Report No.: W7L-P24050016RF05



Band5 1.4MHz QPSK 20525 1RB#0 30~1000 30~1000

Band5 1.4MHz QPSK 20525 1RB#0 1000~10000 1000~10000



Band5 1.4MHz QPSK 20525 1RB#5 30~1000 30~1000

Band5 1.4MHz QPSK 20525 1RB#5 1000~10000 1000~10000



BUREAU VERITAS

Test Report No.: W7L-P24050016RF05







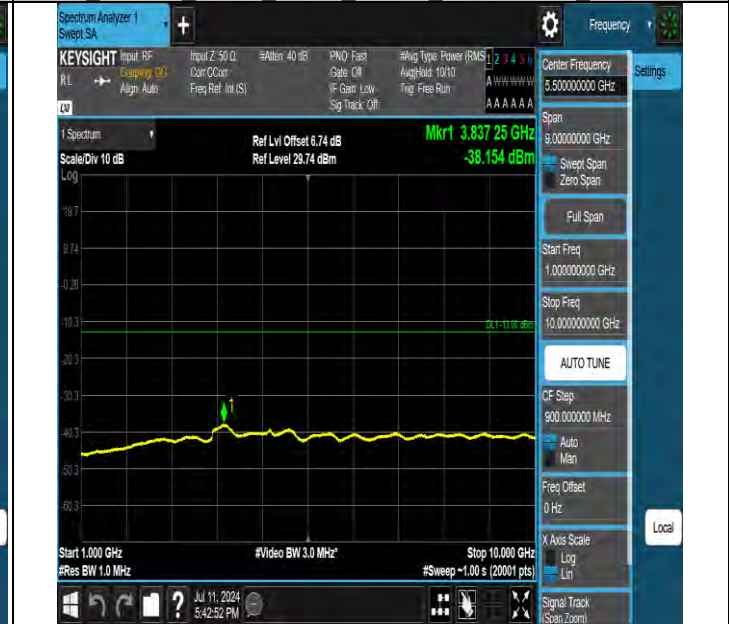
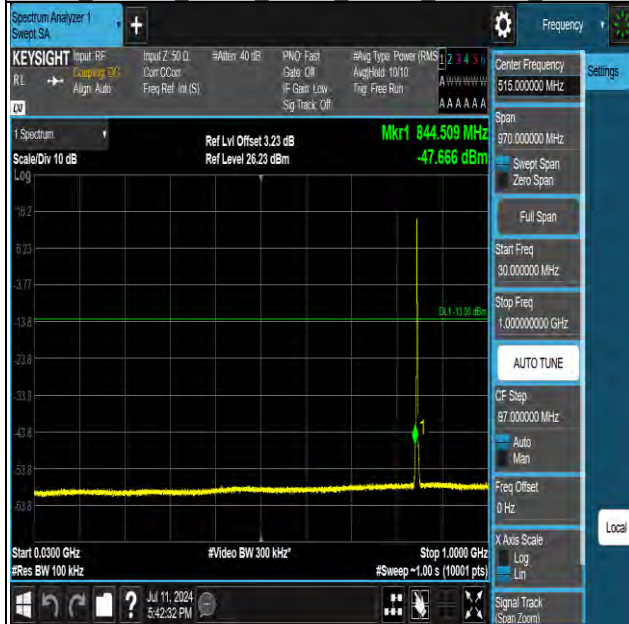
BUREAU VERITAS

Test Report No.: W7L-P24050016RF05



Band5 1.4MHz QPSK 20643 1RB#5 30~1000 30~1000

Band5 1.4MHz QPSK 20643 1RB#5 1000~10000 1000~10000



Band5 1.4MHz QPSK 20643 6RB#0 30~1000 30~1000

Band5 1.4MHz QPSK 20643 6RB#0 1000~10000 1000~10000



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Test Report No.: W7L-P24050016RF05



Band5 3MHz QPSK 20415 1RB#0 30~1000 30~1000

Band5 3MHz QPSK 20415 1RB#0 1000~10000 1000~10000



Band5 3MHz QPSK 20415 1RB#14 30~1000 30~1000

Band5 3MHz QPSK 20415 1RB#14 1000~10000 1000~10000





BUREAU VERITAS

Test Report No.: W7L-P24050016RF05



Band5 3MHz QPSK 20415 15RB#0 30~1000 30~1000

Band5 3MHz QPSK 20415 15RB#0 1000~10000 1000~10000



Band5 3MHz QPSK 20525 1RB#0 30~1000 30~1000

Band5 3MHz QPSK 20525 1RB#0 1000~10000 1000~10000



BUREAU VERITAS

Test Report No.: W7L-P24050016RF05



Band5 3MHz QPSK 20525 1RB#14 30~1000 30~1000

Band5 3MHz QPSK 20525 1RB#14 1000~10000 1000~10000

Band5 3MHz QPSK 20525 15RB#0 30~1000 30~1000

Band5 3MHz QPSK 20525 15RB#0 1000~10000 1000~10000





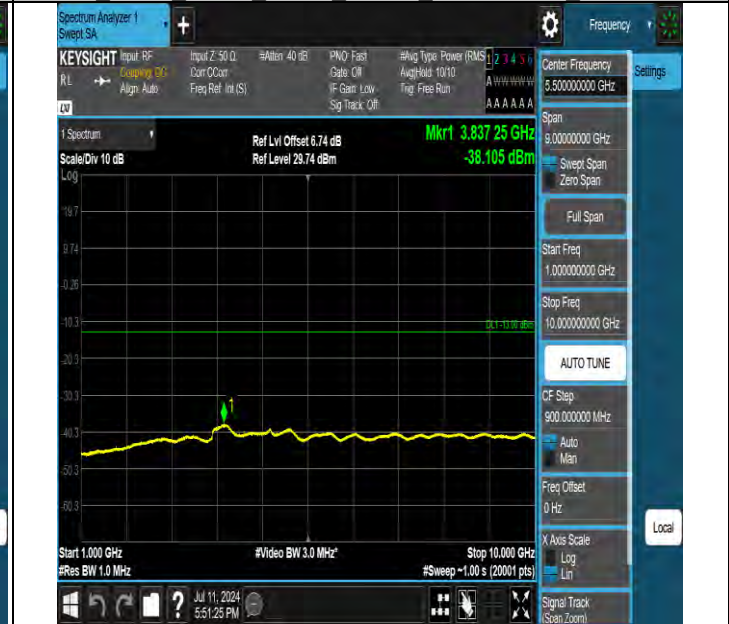
BUREAU VERITAS

Test Report No.: W7L-P24050016RF05



Band5 3MHz QPSK 20635 1RB#0 30~1000 30~1000

Band5 3MHz QPSK 20635 1RB#0 1000~10000 1000~10000



Band5 3MHz QPSK 20635 1RB#14 30~1000 30~1000

Band5 3MHz QPSK 20635 1RB#14 1000~10000 1000~10000





BUREAU VERITAS

Test Report No.: W7L-P24050016RF05



Band5 3MHz QPSK 20635 15RB#0 30~1000 30~1000

Band5 3MHz QPSK 20635 15RB#0 1000~10000 1000~10000



Band5 5MHz QPSK 20425 1RB#0 30~1000 30~1000

Band5 5MHz QPSK 20425 1RB#0 1000~10000 1000~10000



BUREAU VERITAS

Test Report No.: W7L-P24050016RF05



Band5 5MHz QPSK 20425 1RB#24 30~1000 30~1000

Band5 5MHz QPSK 20425 1RB#24 1000~10000 1000~10000



Band5 5MHz QPSK 20425 25RB#0 30~1000 30~1000

Band5 5MHz QPSK 20425 25RB#0 1000~10000 1000~10000





BUREAU VERITAS

Test Report No.: W7L-P24050016RF05



Band5 5MHz QPSK 20525 1RB#0 30~1000 30~1000

Band5 5MHz QPSK 20525 1RB#0 1000~10000 1000~10000



Band5 5MHz QPSK 20525 1RB#24 30~1000 30~1000

Band5 5MHz QPSK 20525 1RB#24 1000~10000 1000~10000



BUREAU VERITAS

Test Report No.: W7L-P24050016RF05



Band5 5MHz QPSK 20525 25RB#0 30~1000 30~1000

Band5 5MHz QPSK 20525 25RB#0 1000~10000 1000~10000



Band5 5MHz QPSK 20625 1RB#0 30~1000 30~1000

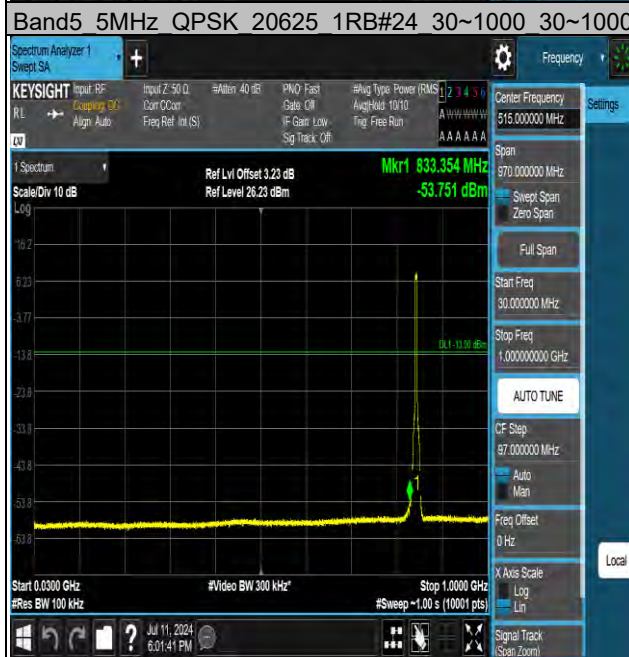
Band5 5MHz QPSK 20625 1RB#0 1000~10000 1000~10000





BUREAU VERITAS

Test Report No.: W7L-P24050016RF05



Band5 5MHz QPSK 20625 1RB#24 30~1000 30~1000

Band5 5MHz QPSK 20625 1RB#24 1000~10000 1000~10000

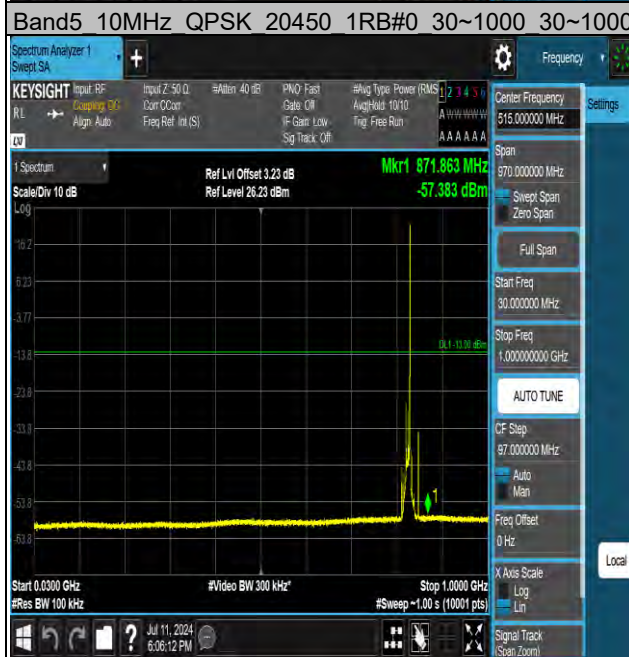
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Band5 5MHz QPSK 20625 25RB#0 1000~10000 1000~10000



BUREAU VERITAS

Test Report No.: W7L-P24050016RF05



Band5 10MHz QPSK 20450 1RB#49 30~1000 30~1000

Band5 10MHz QPSK 20450 1RB#49 1000~10000 1000~10000