



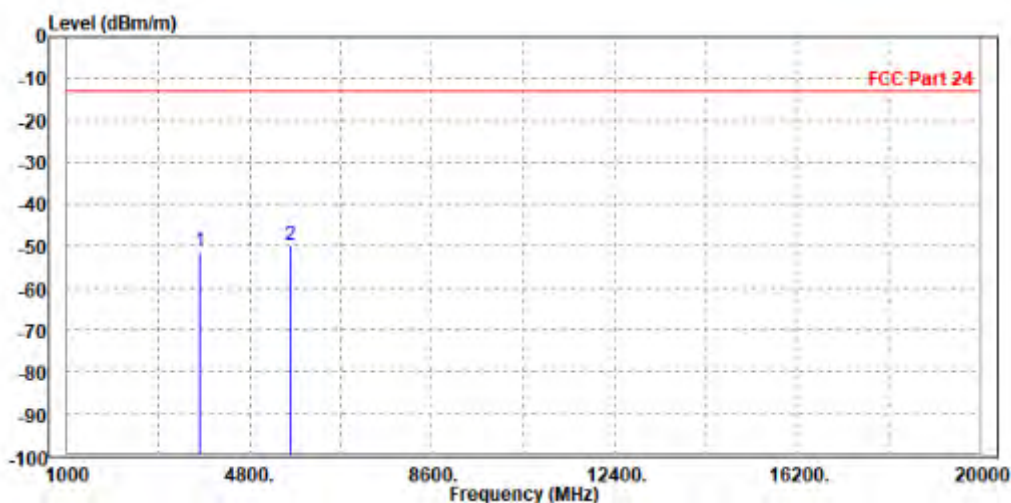
Test Report No.: W7L-P22110001RF05

LTE Band 2

CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 18900	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	3755.000	-51.51	-59.49	-13.00	-38.51	7.98	Peak	Horizontal
2 PP	5636.000	-49.85	-60.58	-13.00	-36.85	10.73	Peak	Horizontal



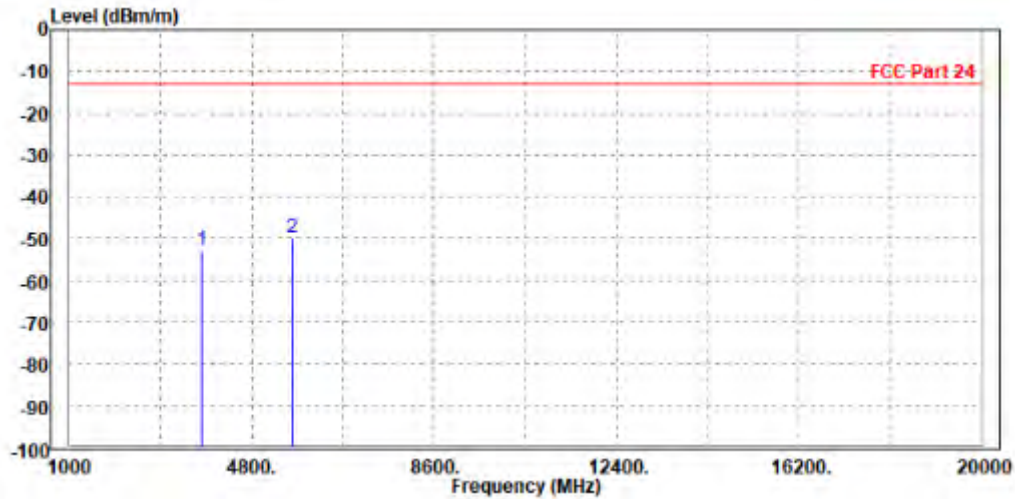


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Test Report No.: W7L-P22110001RF05

MODE	TX channel 18900	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	3755.000	-52.69	-60.38	-13.00	-39.69	7.69	Peak	Vertical
2 PP	5640.000	-49.86	-60.99	-13.00	-36.86	11.13	Peak	Vertical





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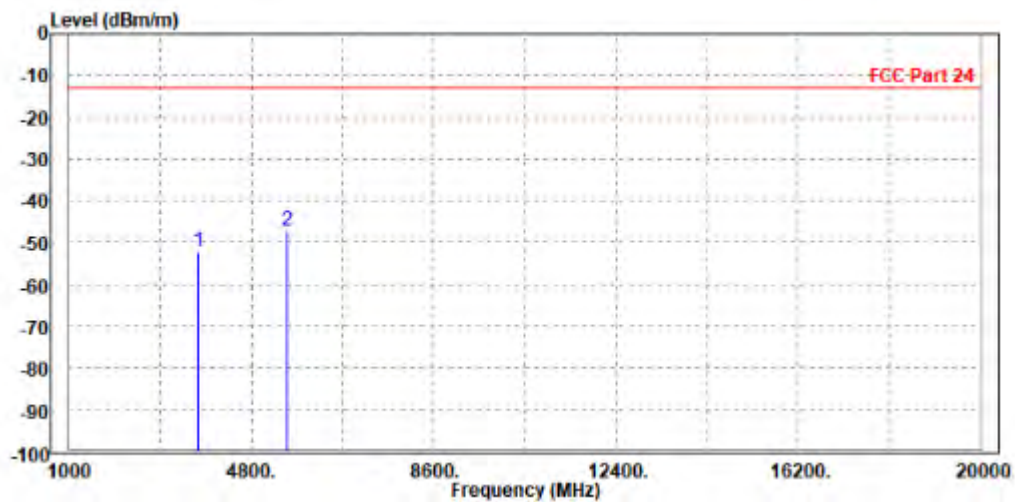
Test Report No.: W7L-P22110001RF05

CHANNEL BANDWIDTH: 3MHz / QPSK

CH18615

MODE	TX channel 18615	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	3703.000	-52.11	-59.95	-13.00	-39.11	7.84	Peak	Horizontal
2 PP	5560.000	-47.14	-57.73	-13.00	-34.14	10.59	Peak	Horizontal



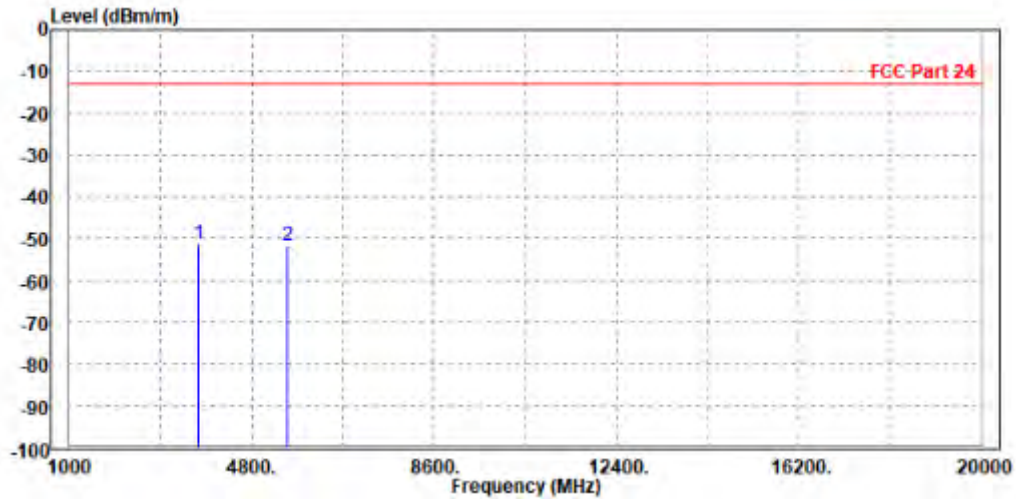


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Test Report No.: W7L-P22110001RF05

MODE	TX channel 18615	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	PP 3698.000	-51.49	-59.10	-13.00	-38.49	7.61	Peak	Vertical
2	5554.500	-51.78	-62.66	-13.00	-38.78	10.88	Peak	Vertical





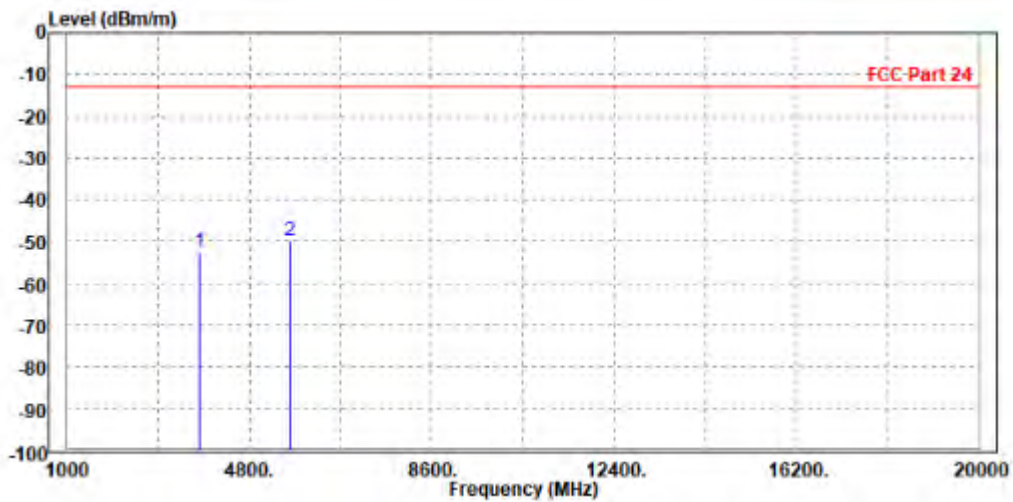
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Test Report No.: W7L-P22110001RF05

CH18900

MODE	TX channel 18900	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	3755.000	-52.30	-60.28	-13.00	-39.30	7.98	Peak	Horizontal
2 PP	5640.000	-49.85	-60.59	-13.00	-36.85	10.74	Peak	Horizontal



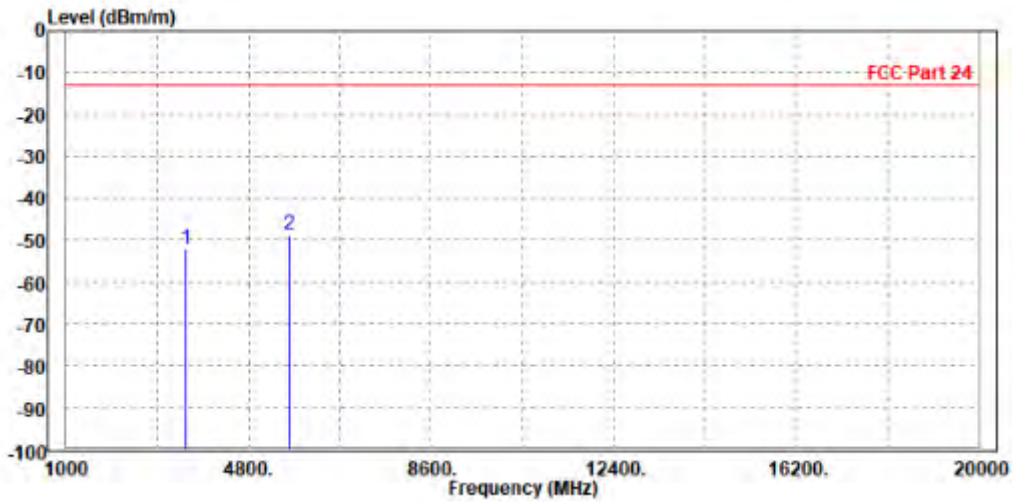


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Test Report No.: W7L-P22110001RF05

MODE	TX channel 18900	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	-52.18	-59.48	-13.00	-39.18	7.30	Peak	Vertical
2 PP	5636.000	-48.79	-59.91	-13.00	-35.79	11.12	Peak	Vertical





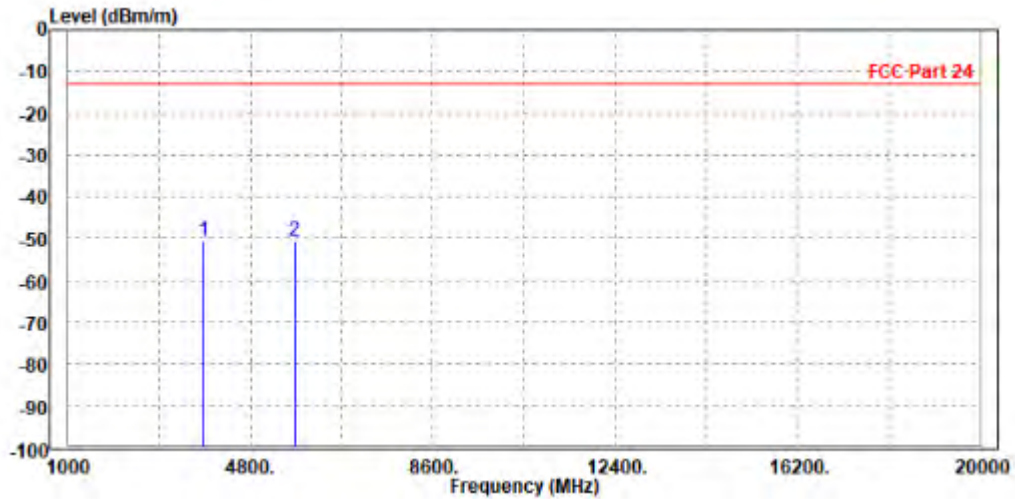
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Test Report No.: W7L-P22110001RF05

CH19185

MODE	TX channel 19185	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 PP	3817.000	-50.46	-58.59	-13.00	-37.46	8.13	Peak	Horizontal
2	5725.500	-50.66	-61.56	-13.00	-37.66	10.90	Peak	Horizontal



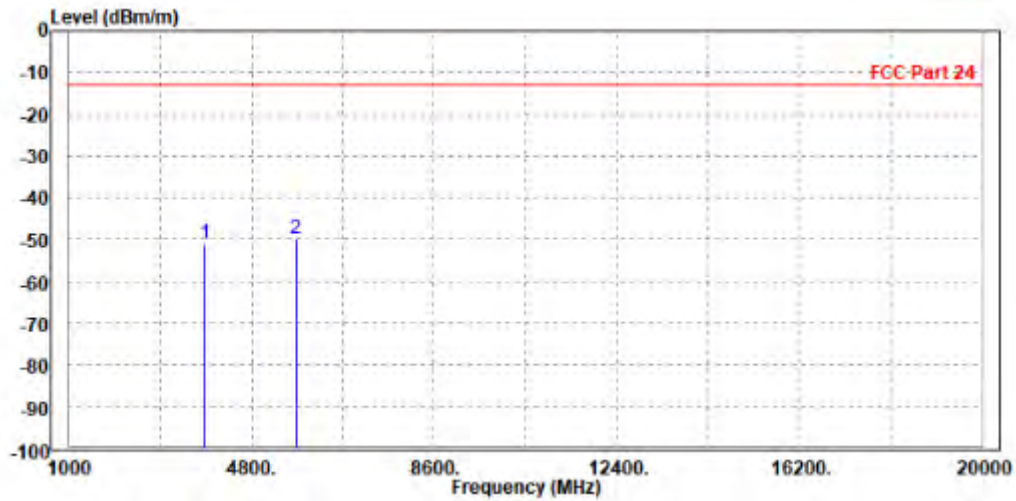


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Test Report No.: W7L-P22110001RF05

MODE	TX channel 19185	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	3812.000	-51.08	-58.85	-13.00	-38.08	7.77	Peak	Vertical
2 PP	5725.500	-49.91	-61.28	-13.00	-36.91	11.37	Peak	Vertical





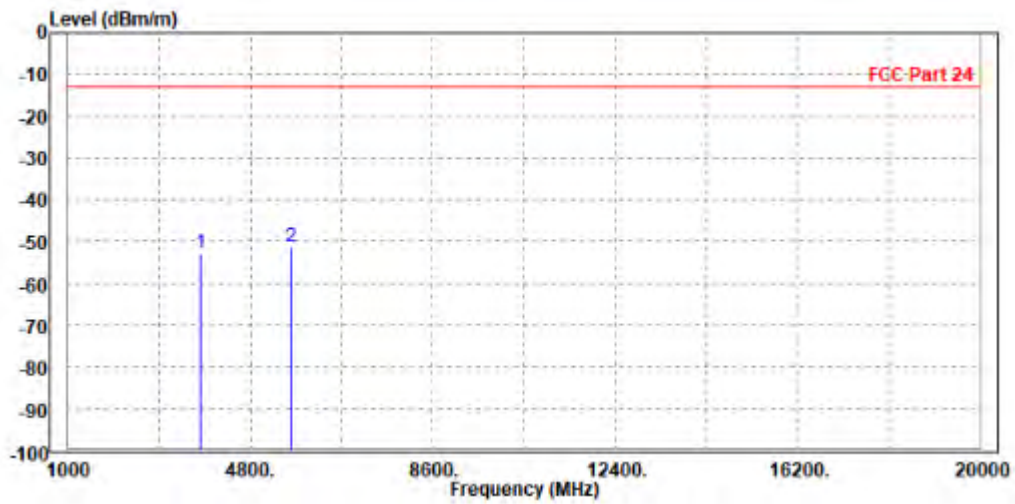
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VERITAS**

Test Report No.: W7L-P22110001RF05

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 18900	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	3755.000	-52.76	-60.74	-13.00	-39.76	7.98	Peak	Horizontal
2 PP	5636.000	-51.26	-61.99	-13.00	-38.26	10.73	Peak	Horizontal



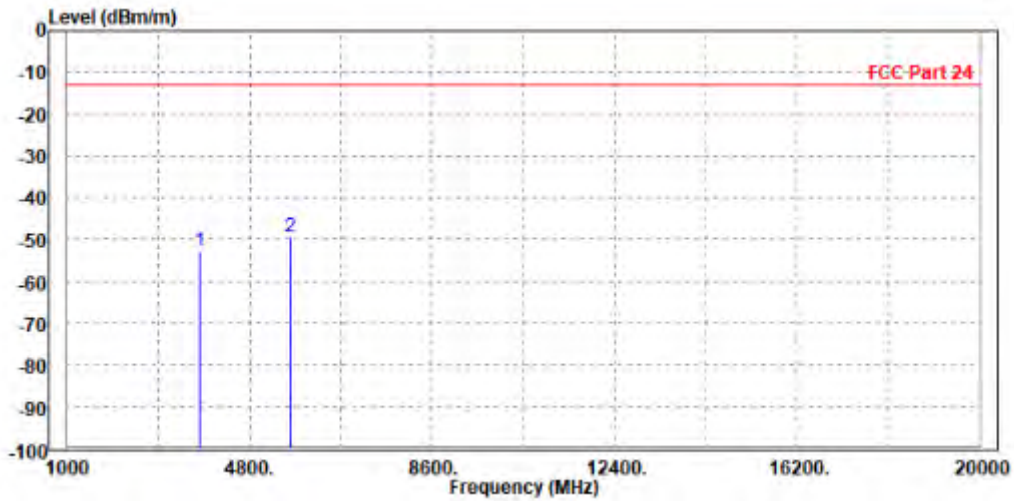


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Test Report No.: W7L-P22110001RF05

MODE	TX channel 18900	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	3755.000	-52.91	-60.60	-13.00	-39.91	7.69	Peak	Vertical
2 PP	5640.000	-49.51	-60.64	-13.00	-36.51	11.13	Peak	Vertical





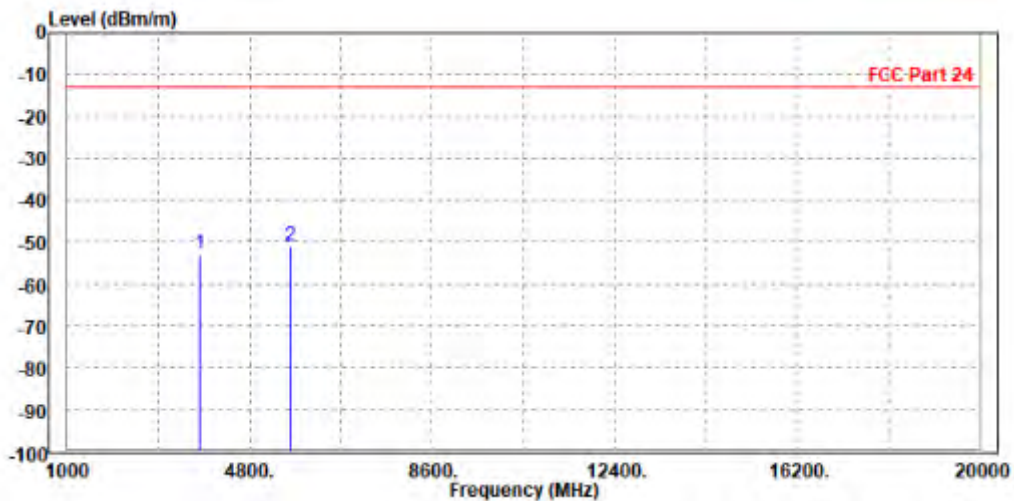
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Test Report No.: W7L-P22110001RF05

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 18900	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	3755.000	-52.71	-60.69	-13.00	-39.71	7.98	Peak	Horizontal
2 PP	5640.000	-50.85	-61.59	-13.00	-37.85	10.74	Peak	Horizontal



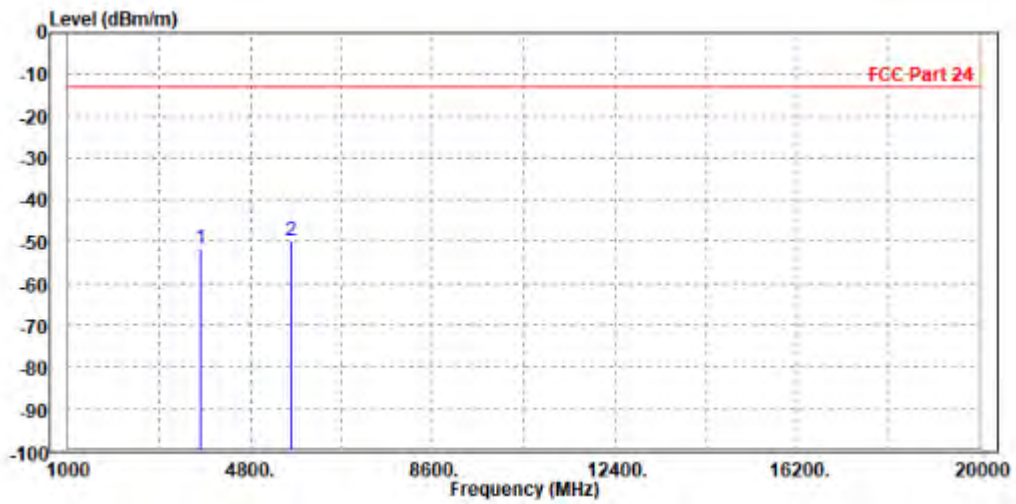


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Test Report No.: W7L-P22110001RF05

MODE	TX channel 18900	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	3760.000	-51.73	-59.43	-13.00	-38.73	7.70	Peak	Vertical
2 PP	5636.000	-49.99	-61.11	-13.00	-36.99	11.12	Peak	Vertical





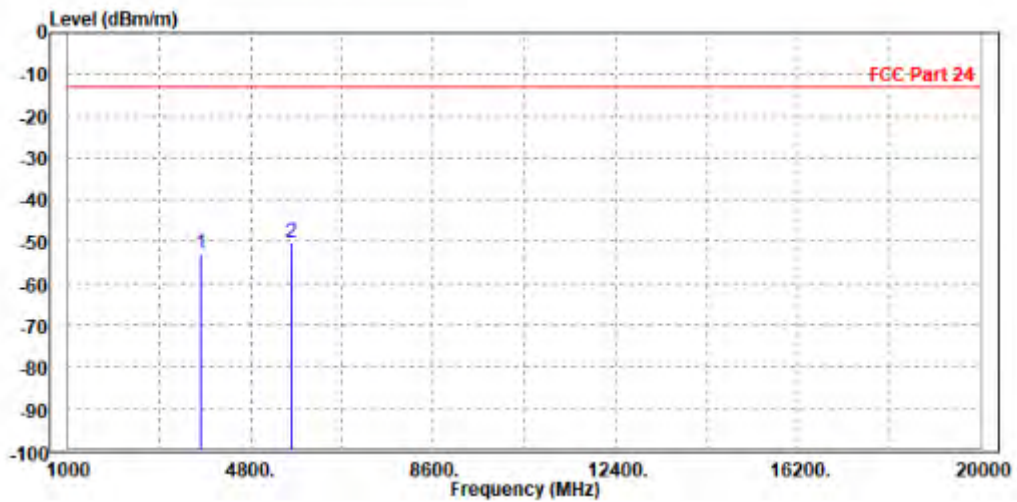
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Test Report No.: W7L-P22110001RF05

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 18900	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	3755.000	-52.92	-60.90	-13.00	-39.92	7.98	Peak	Horizontal
2 PP	5640.000	-50.38	-61.12	-13.00	-37.38	10.74	Peak	Horizontal



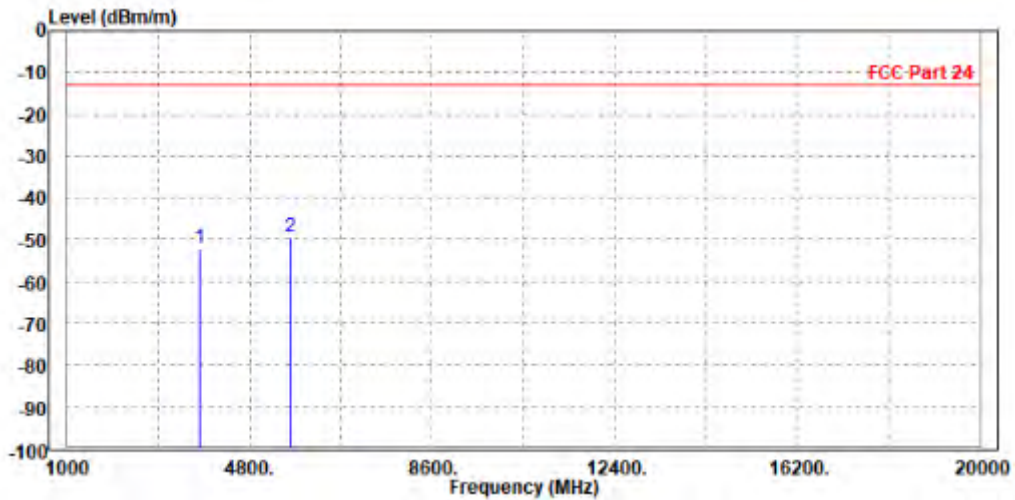


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Test Report No.: W7L-P22110001RF05

MODE	TX channel 18900	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	3760.000	-52.06	-59.76	-13.00	-39.06	7.70	Peak	Vertical
2 PP	5636.000	-49.60	-60.72	-13.00	-36.60	11.12	Peak	Vertical





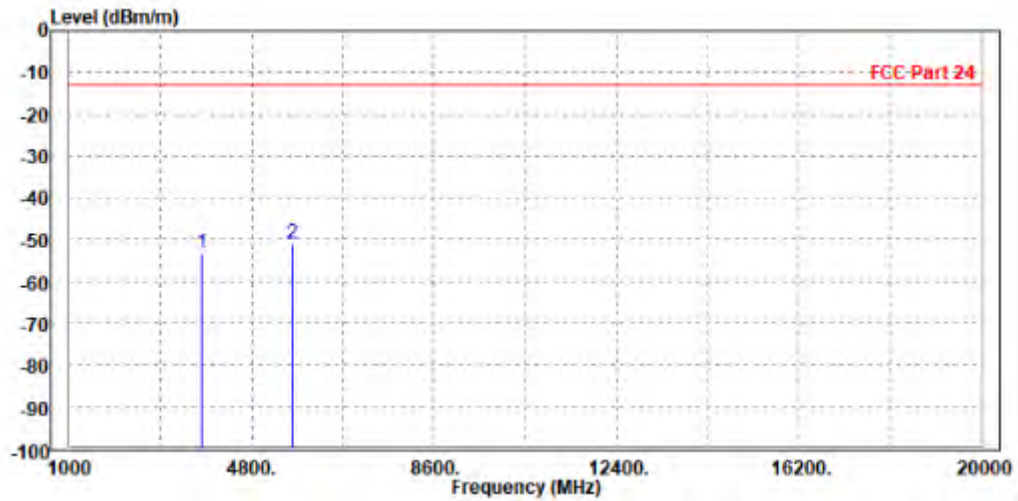
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Test Report No.: W7L-P22110001RF05

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 18900	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	3760.000	-53.30	-61.29	-13.00	-40.30	7.99	Peak	Horizontal
2 PP	5636.000	-51.14	-61.87	-13.00	-38.14	10.73	Peak	Horizontal



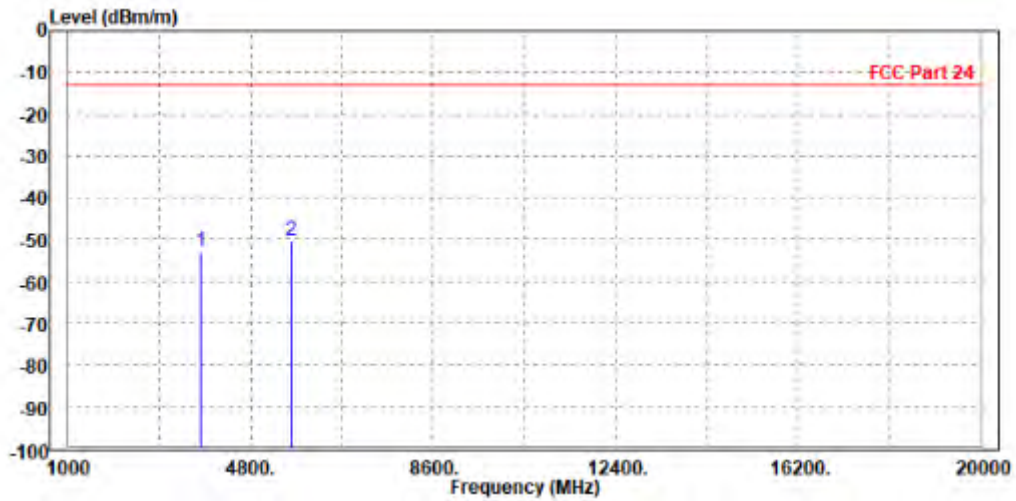


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Test Report No.: W7L-P22110001RF05

MODE	TX channel 18900	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	3755.000	-53.01	-60.70	-13.00	-40.01	7.69	Peak	Vertical
2 PP	5640.000	-50.29	-61.42	-13.00	-37.29	11.13	Peak	Vertical



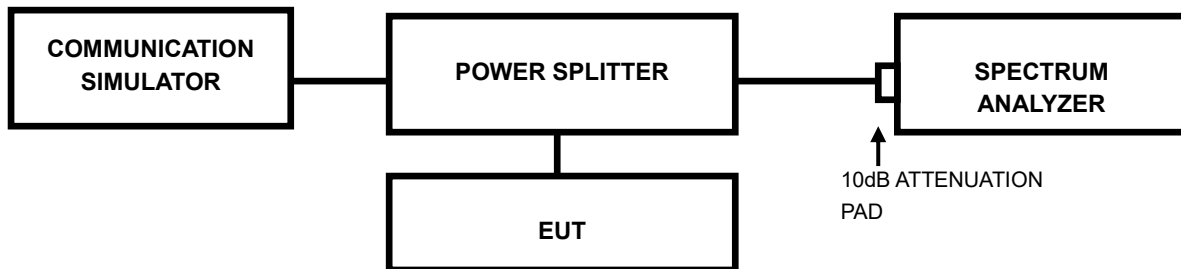


3.7 PEAK TO AVERAGE RATIO

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-P22110001RF05

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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Test Report No.: W7L-P22110001RF05

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:

Shenzhen EMC/RF Lab:

Tel: +86-755-88696566

Fax: +86-755-88696577

Email: customerservice.sw@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.



Test Report No.: W7L-P22110001RF05

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

GSM1900

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

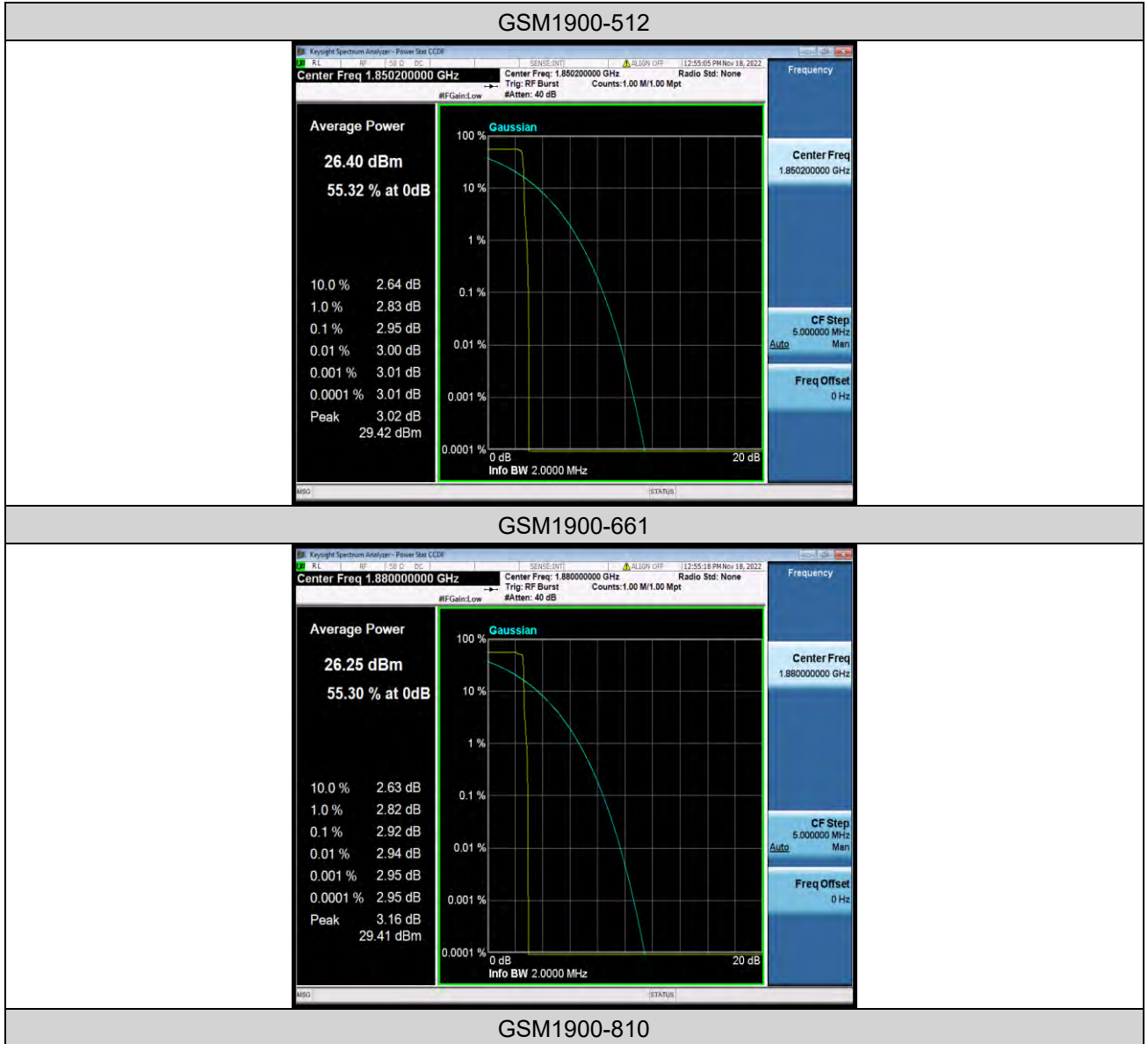
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM1900	512	2.95	13	PASS
GSM1900	661	2.92	13	PASS
GSM1900	810	2.96	13	PASS
EGPRS1900	512	5.15	13	PASS
EGPRS1900	661	5.19	13	PASS
EGPRS1900	810	5.16	13	PASS



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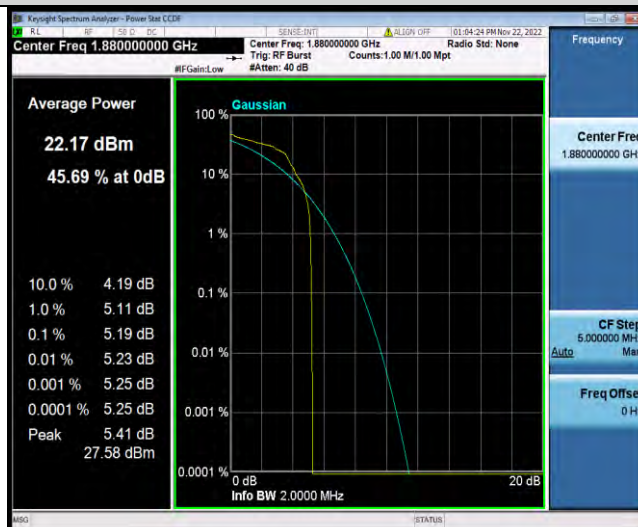
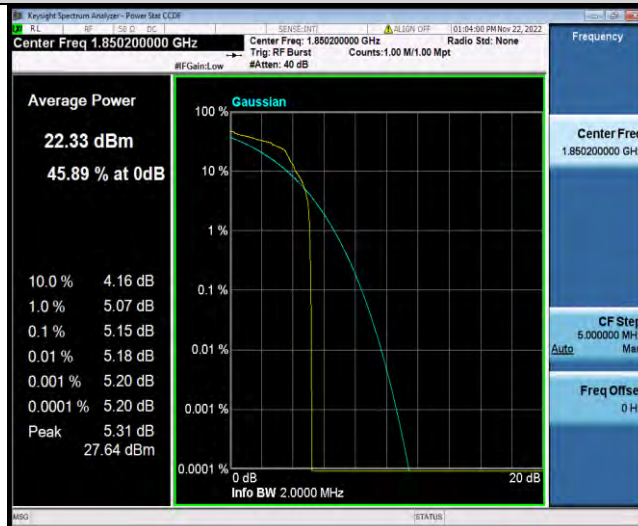
Test Graphs





BUREAU VERITAS

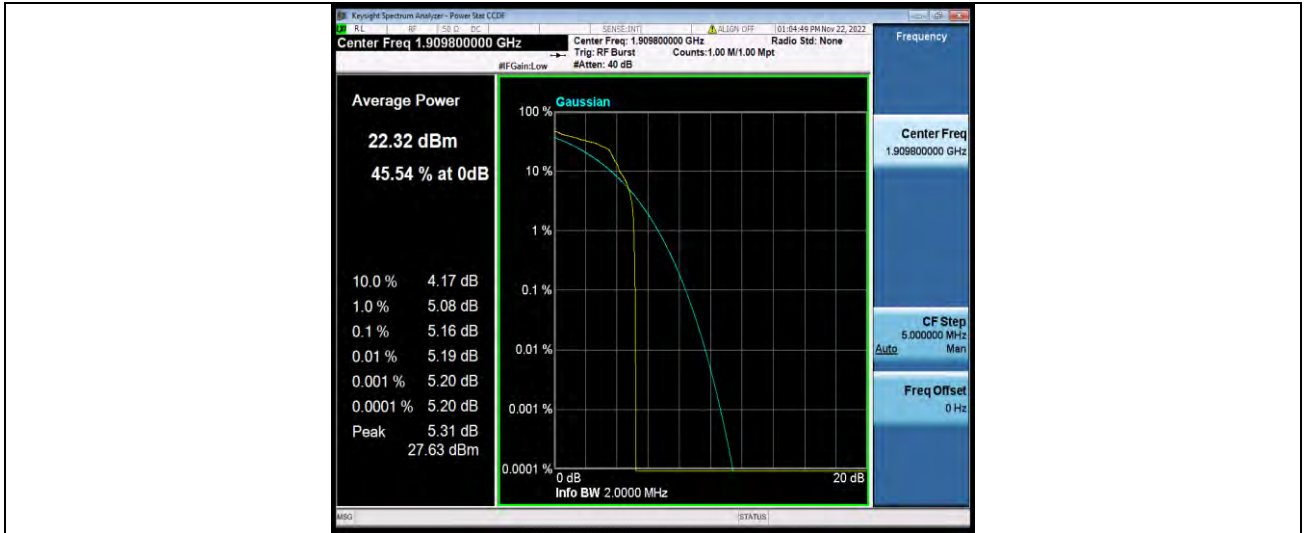
Test Report No.: W7L-P22110001RF05





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Test Report No.: W7L-P22110001RF05





Test Report No.: W7L-P22110001RF05

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

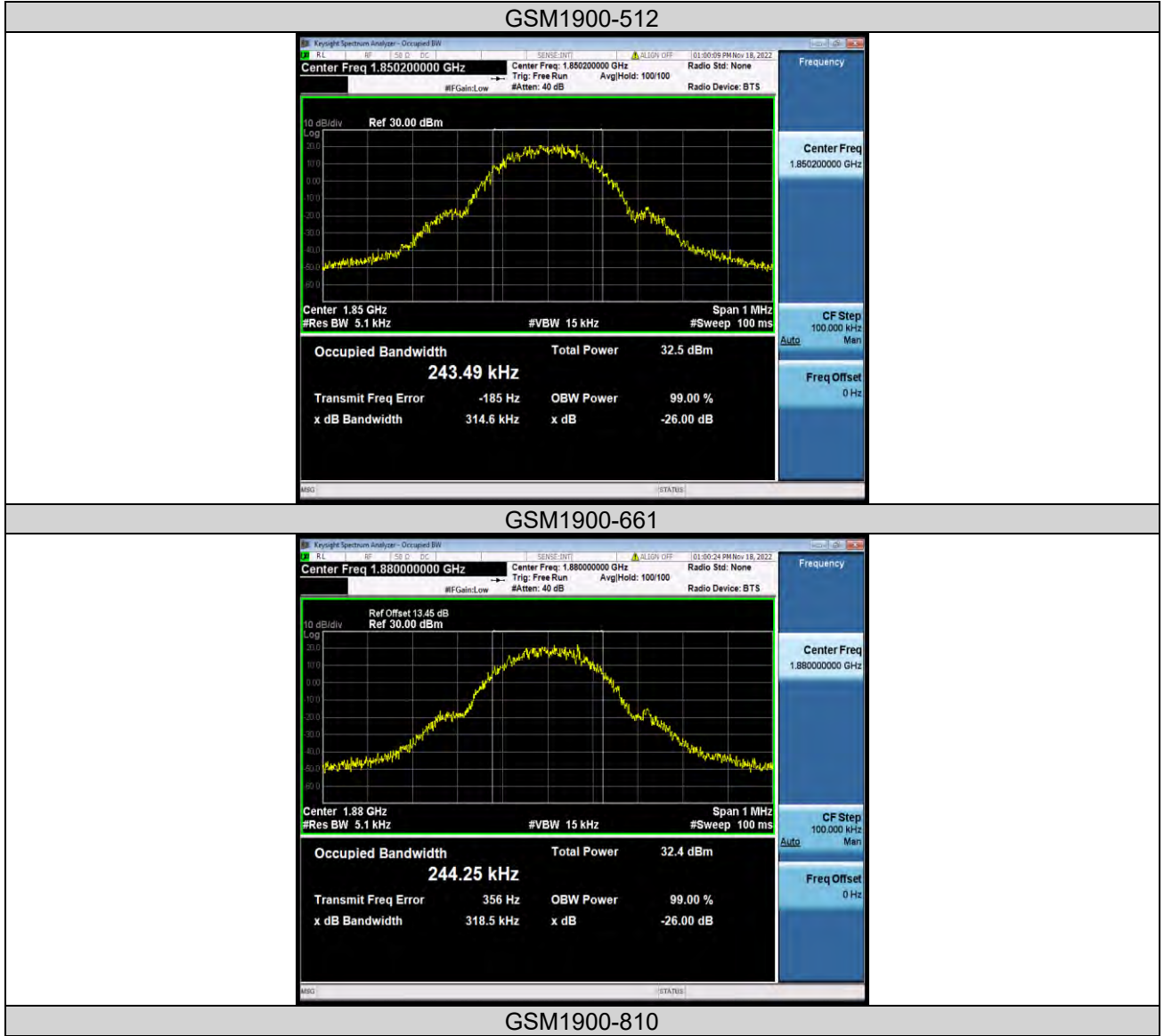
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM1900	512	0.24349	0.3146	---	PASS
GSM1900	661	0.24425	0.3185	---	PASS
GSM1900	810	0.24610	0.3195	---	PASS
EGPRS1900	512	0.24946	0.3131	---	PASS
EGPRS1900	661	0.25378	0.3096	---	PASS
EGPRS1900	810	0.25120	0.3164	---	PASS



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Test Report No.: W7L-P22110001RF05

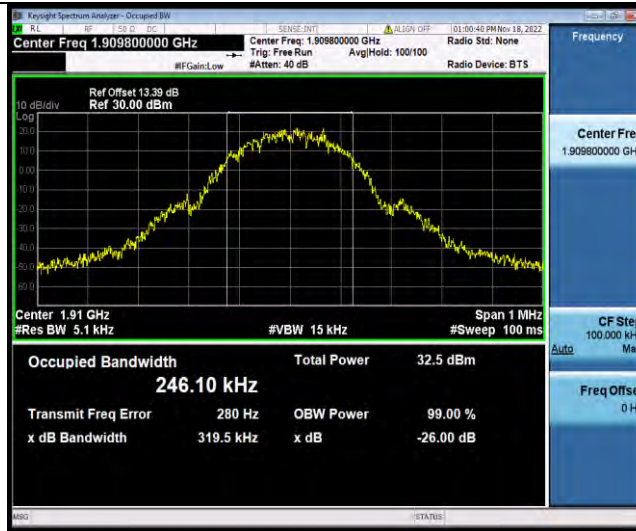
Test Graphs





BUREAU VERITAS

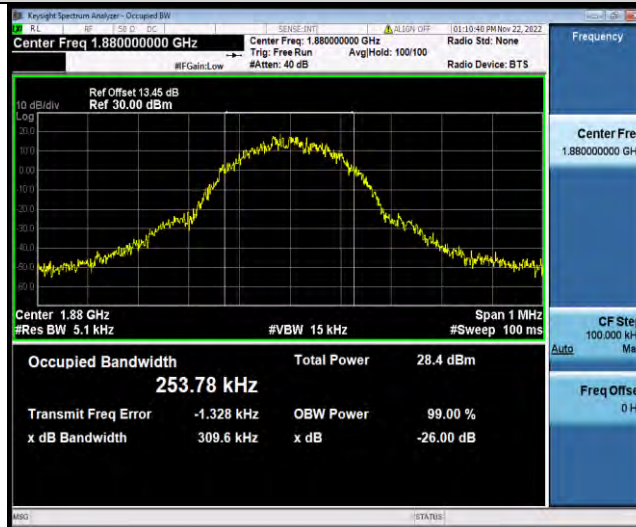
Test Report No.: W7L-P22110001RF05



EGPRS1900-512



EGPRS1900-661

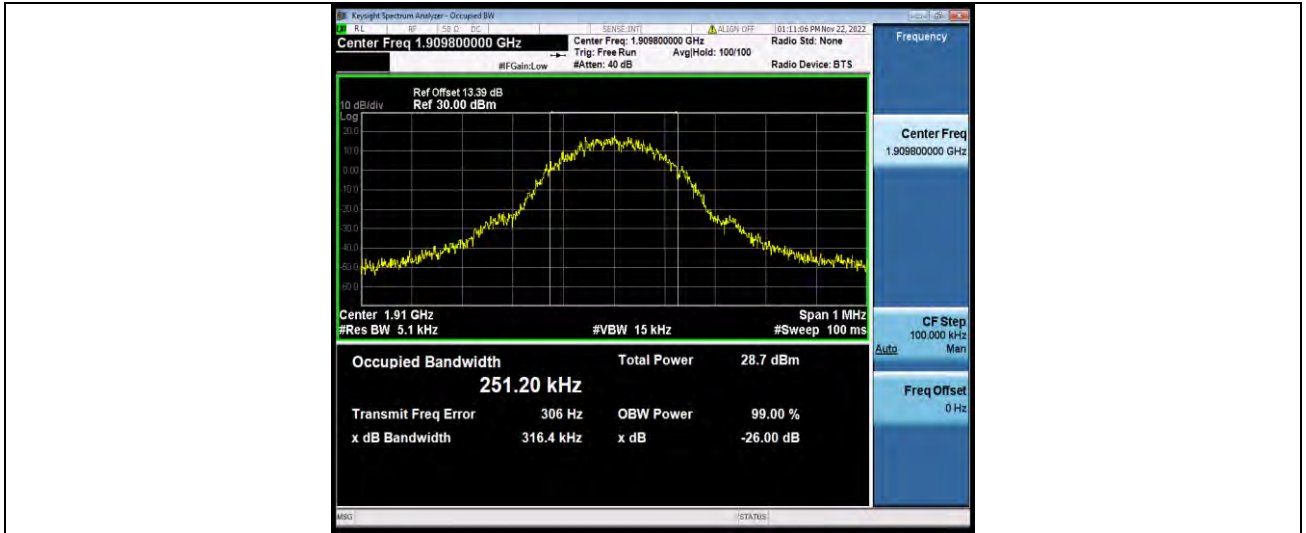


EGPRS1900-810



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Test Report No.: W7L-P22110001RF05





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Test Report No.: W7L-P22110001RF05

BAND EDGE

Test Result

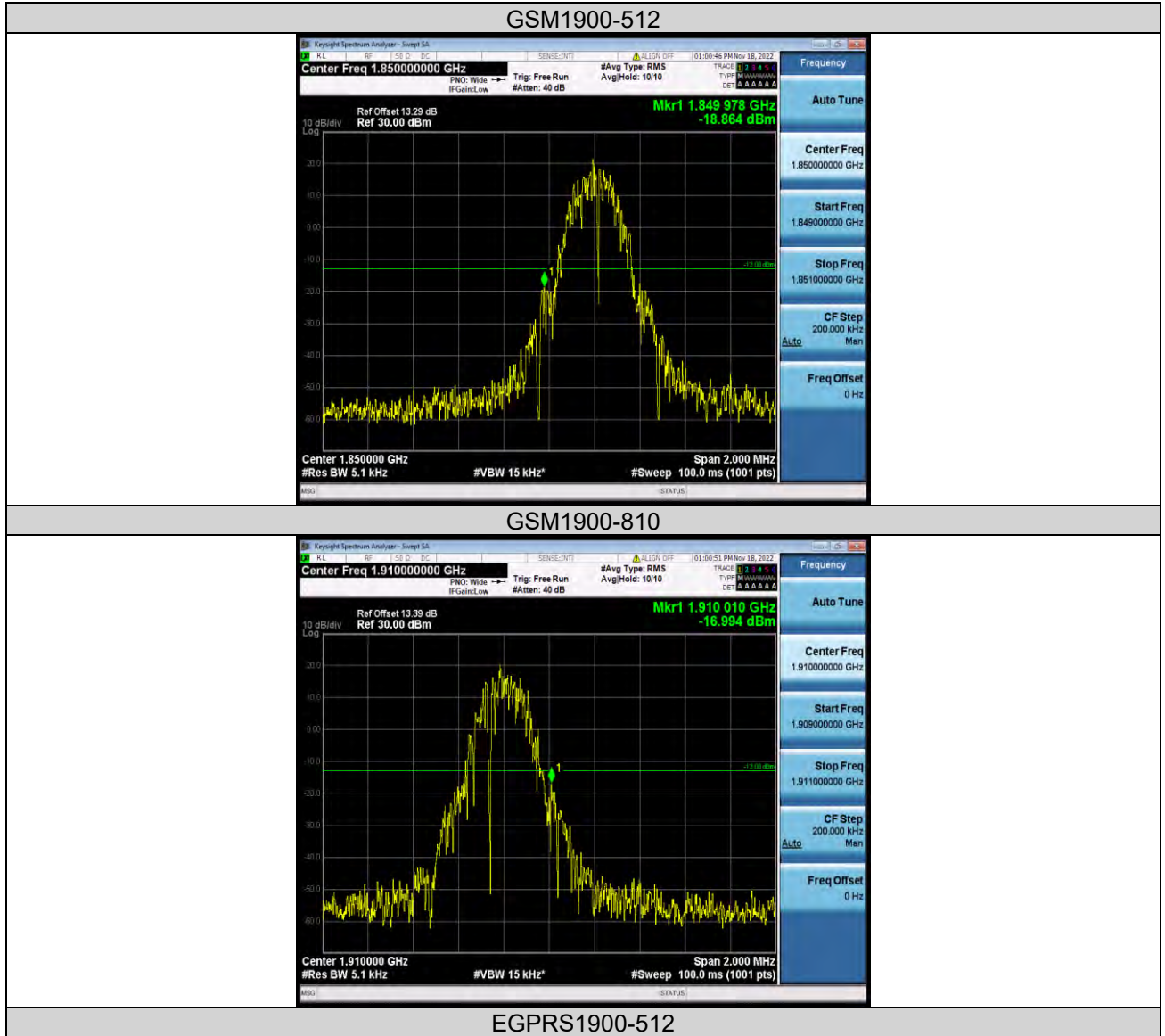
Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM1900	512	1849.98	-18.86	-13	PASS
GSM1900	810	1910.01	-16.99	-13	PASS
EGPRS1900	512	1849.98	-27.29	-13	PASS
EGPRS1900	810	1910.00	-26.64	-13	PASS



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Test Report No.: W7L-P22110001RF05

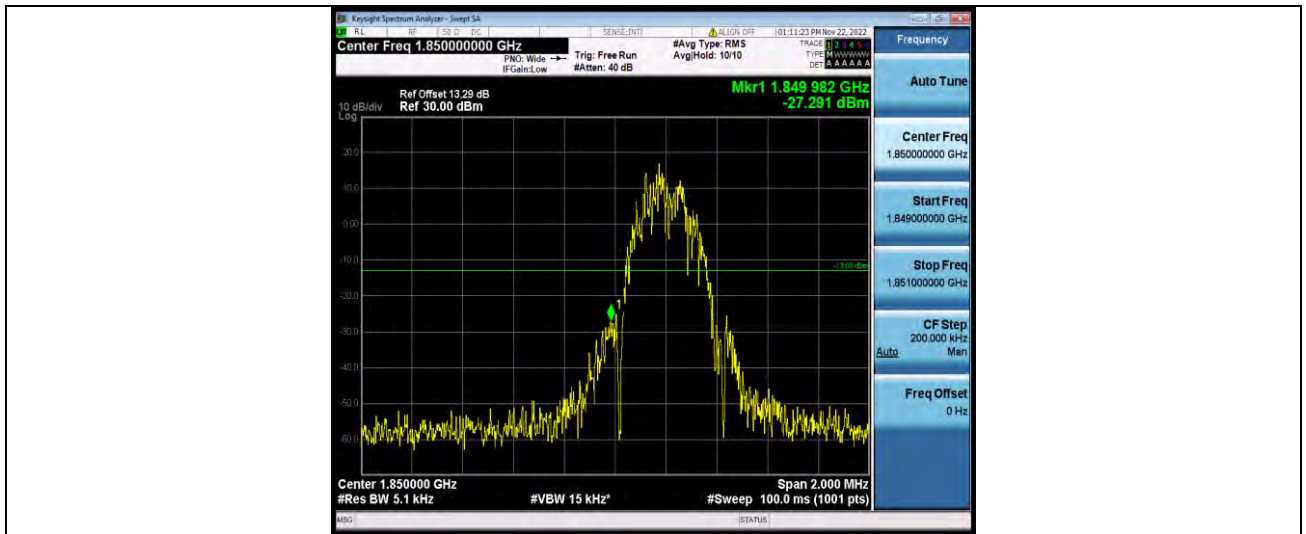
Test Graphs



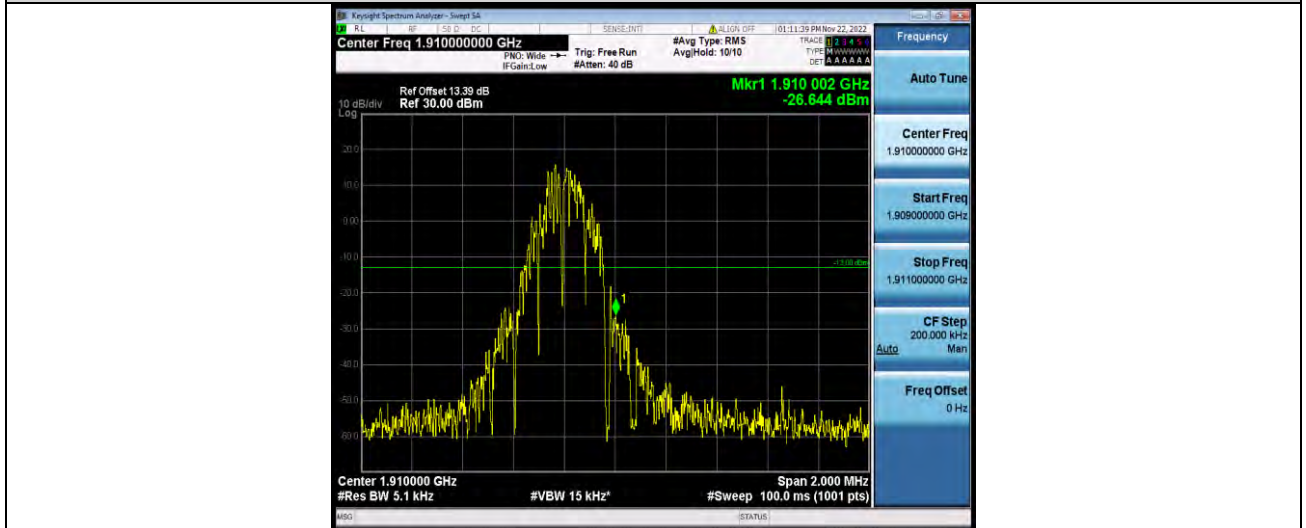


BUREAU VERITAS

Test Report No.: W7L-P22110001RF05



EGPRS1900-810





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VERITAS**

Test Report No.: W7L-P22110001RF05

CONDUCTED SPURIOUS EMISSION

Test Result

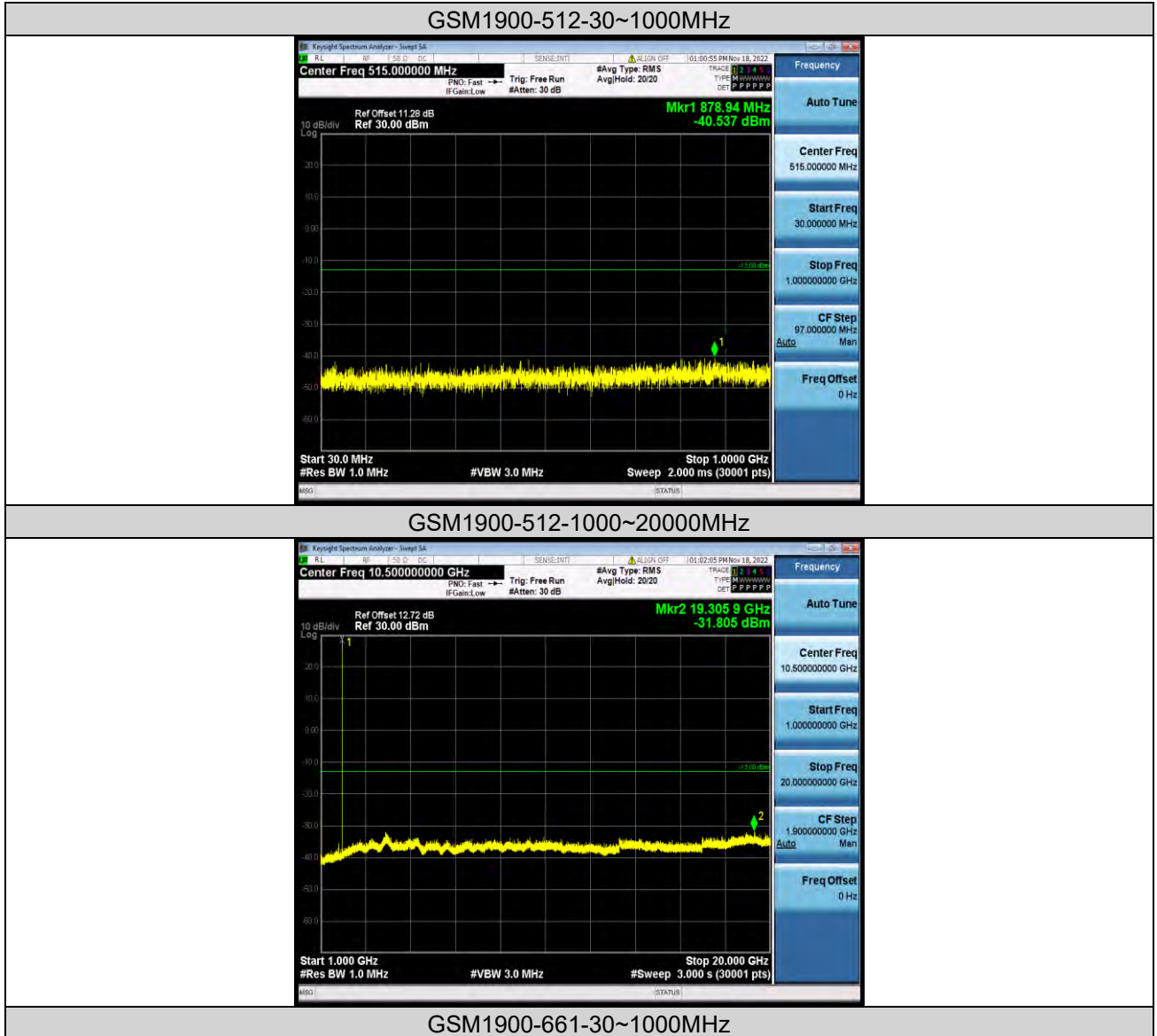
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM1900	512	30~1000MHz	878.94	-40.54	-13	PASS
GSM1900	512	1000~20000MHz	19305.87	-31.81	-13	PASS
GSM1900	661	30~1000MHz	843.05	-40.3	-13	PASS
GSM1900	661	1000~20000MHz	18949.93	-32.15	-13	PASS
GSM1900	810	30~1000MHz	899.35	-40.17	-13	PASS
GSM1900	810	1000~20000MHz	19778.97	-32.22	-13	PASS
EGPRS1900	512	30~1000MHz	876.39	-40.67	-13	PASS
EGPRS1900	512	1000~20000MHz	19378.7	-32.19	-13	PASS
EGPRS1900	661	30~1000MHz	755.66	-40.79	-13	PASS
EGPRS1900	661	1000~20000MHz	19321.7	-32.01	-13	PASS
EGPRS1900	810	30~1000MHz	858.06	-40.64	-13	PASS
EGPRS1900	810	1000~20000MHz	19151.33	-32.19	-13	PASS



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Test Report No.: W7L-P22110001RF05

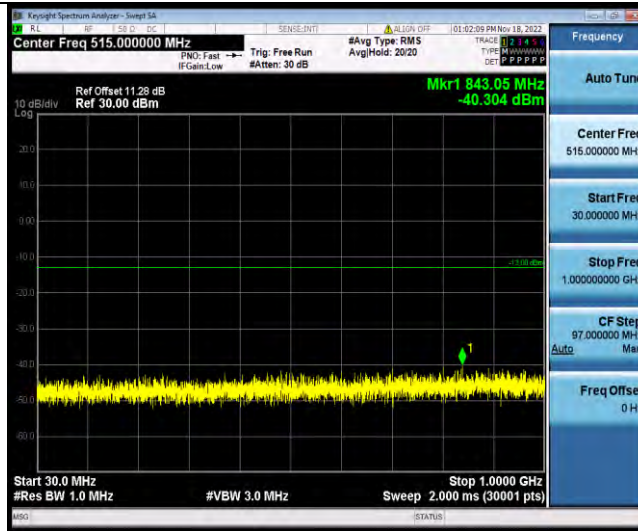
Test Graphs



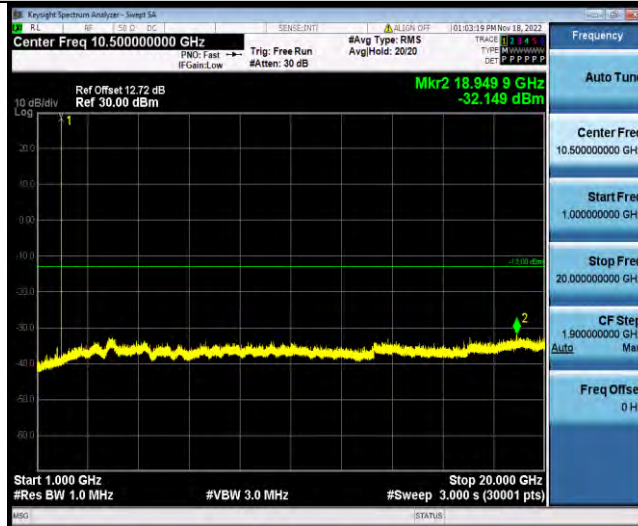


BUREAU VERITAS

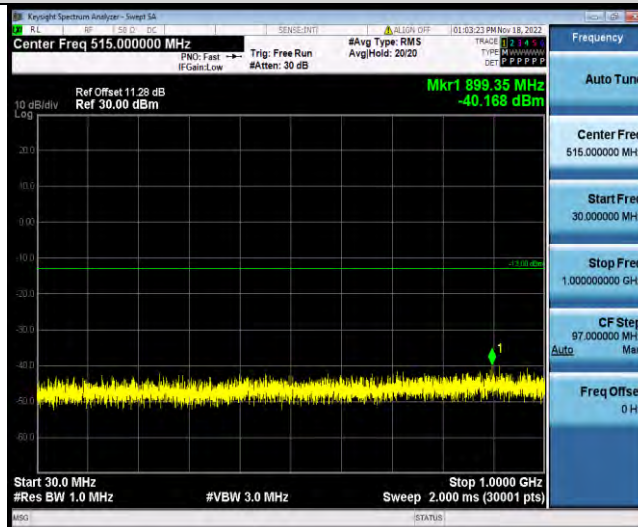
Test Report No.: W7L-P22110001RF05



GSM1900-661-1000~2000MHz



GSM1900-810-30~1000MHz



GSM1900-810-1000~2000MHz

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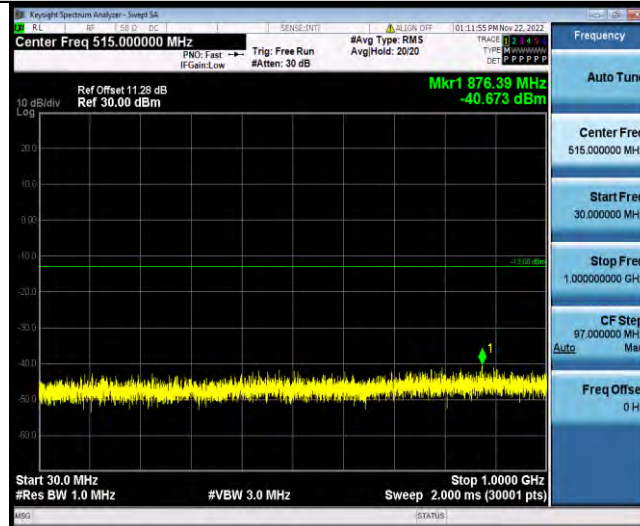


BUREAU VERITAS

Test Report No.: W7L-P22110001RF05



EGPRS1900-512-30~1000MHz



EGPRS1900-512-1000~2000MHz

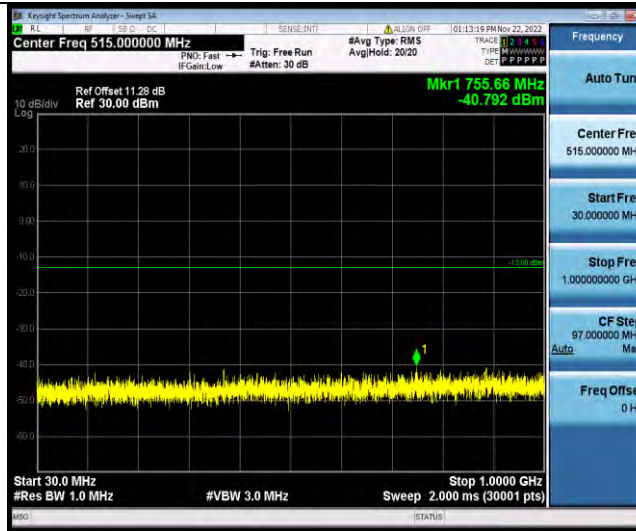


EGPRS1900-661-30~1000MHz



BUREAU VERITAS

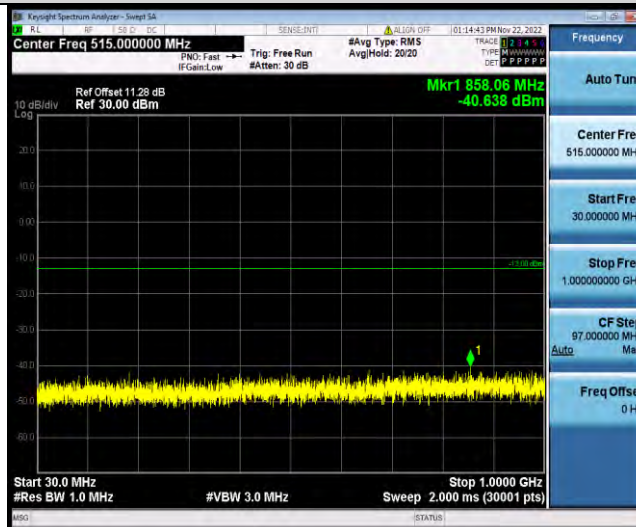
Test Report No.: W7L-P22110001RF05



EGPRS1900-661-1000~20000MHz



EGPRS1900-810-30~1000MHz

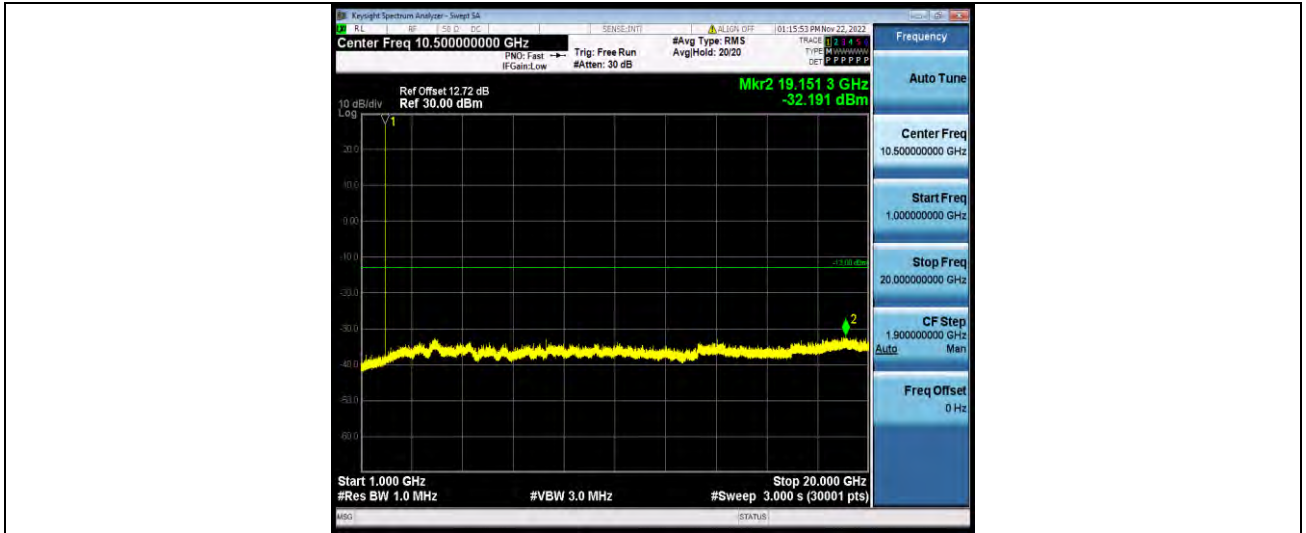


EGPRS1900-810-1000~20000MHz



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VERITAS

Test Report No.: W7L-P22110001RF05





FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	VL	NT	53.92	0.029143	±2.5	PASS
GSM1900	512	VN	NT	47.07	0.025440	±2.5	PASS
GSM1900	512	VH	NT	48.07	0.025981	±2.5	PASS
GSM1900	661	VL	NT	58.11	0.030910	±2.5	PASS
GSM1900	661	VN	NT	57.34	0.030500	±2.5	PASS
GSM1900	661	VH	NT	50.20	0.026702	±2.5	PASS
GSM1900	810	VL	NT	46.98	0.024599	±2.5	PASS
GSM1900	810	VN	NT	51.21	0.026814	±2.5	PASS
GSM1900	810	VH	NT	44.78	0.023447	±2.5	PASS
EGPRS1900	512	VL	NT	75.19	0.040639	±2.5	PASS
EGPRS1900	512	VN	NT	75.87	0.041006	±2.5	PASS
EGPRS1900	512	VH	NT	77.45	0.041860	±2.5	PASS
EGPRS1900	661	VL	NT	56.44	0.030021	±2.5	PASS
EGPRS1900	661	VN	NT	59.99	0.031910	±2.5	PASS
EGPRS1900	661	VH	NT	60.08	0.031957	±2.5	PASS
EGPRS1900	810	VL	NT	60.92	0.031899	±2.5	PASS
EGPRS1900	810	VN	NT	57.21	0.029956	±2.5	PASS
EGPRS1900	810	VH	NT	65.64	0.034370	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	NV	-30	51.79	0.027992	±2.5	PASS
GSM1900	512	NV	-20	56.02	0.030278	±2.5	PASS
GSM1900	512	NV	-10	59.28	0.032040	±2.5	PASS
GSM1900	512	NV	0	58.05	0.031375	±2.5	PASS
GSM1900	512	NV	10	59.37	0.032088	±2.5	PASS
GSM1900	512	NV	20	55.85	0.030186	±2.5	PASS
GSM1900	512	NV	30	53.47	0.028900	±2.5	PASS
GSM1900	512	NV	40	53.24	0.028775	±2.5	PASS
GSM1900	512	NV	50	57.11	0.030867	±2.5	PASS



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VERITAS

Test Report No.: W7L-P22110001RF05

GSM1900	661	NV	-30	49.14	0.026138	±2.5	PASS
GSM1900	661	NV	-20	50.08	0.026638	±2.5	PASS
GSM1900	661	NV	-10	51.40	0.027340	±2.5	PASS
GSM1900	661	NV	0	52.17	0.027750	±2.5	PASS
GSM1900	661	NV	10	54.08	0.028766	±2.5	PASS
GSM1900	661	NV	20	48.49	0.025793	±2.5	PASS
GSM1900	661	NV	30	55.98	0.029777	±2.5	PASS
GSM1900	661	NV	40	56.44	0.030021	±2.5	PASS
GSM1900	661	NV	50	55.27	0.029399	±2.5	PASS
GSM1900	810	NV	-30	46.65	0.024427	±2.5	PASS
GSM1900	810	NV	-20	47.07	0.024647	±2.5	PASS
GSM1900	810	NV	-10	46.75	0.024479	±2.5	PASS
GSM1900	810	NV	0	44.52	0.023311	±2.5	PASS
GSM1900	810	NV	10	49.40	0.025867	±2.5	PASS
GSM1900	810	NV	20	55.08	0.028841	±2.5	PASS
GSM1900	810	NV	30	48.14	0.025207	±2.5	PASS
GSM1900	810	NV	40	47.17	0.024699	±2.5	PASS
GSM1900	810	NV	50	42.17	0.022081	±2.5	PASS
EGPRS1900	512	NV	-30	78.16	0.042244	±2.5	PASS
EGPRS1900	512	NV	-20	78.39	0.042368	±2.5	PASS
EGPRS1900	512	NV	-10	71.67	0.038736	±2.5	PASS
EGPRS1900	512	NV	0	74.90	0.040482	±2.5	PASS
EGPRS1900	512	NV	10	58.41	0.031570	±2.5	PASS
EGPRS1900	512	NV	20	64.47	0.034845	±2.5	PASS
EGPRS1900	512	NV	30	59.15	0.031970	±2.5	PASS
EGPRS1900	512	NV	40	61.05	0.032996	±2.5	PASS
EGPRS1900	512	NV	50	72.90	0.039401	±2.5	PASS
EGPRS1900	661	NV	-30	57.82	0.030755	±2.5	PASS
EGPRS1900	661	NV	-20	52.46	0.027904	±2.5	PASS
EGPRS1900	661	NV	-10	61.54	0.032734	±2.5	PASS
EGPRS1900	661	NV	0	60.21	0.032027	±2.5	PASS
EGPRS1900	661	NV	10	56.05	0.029814	±2.5	PASS
EGPRS1900	661	NV	20	55.79	0.029676	±2.5	PASS
EGPRS1900	661	NV	30	60.73	0.032303	±2.5	PASS
EGPRS1900	661	NV	40	65.93	0.035069	±2.5	PASS



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Test Report No.: W7L-P22110001RF05

00							
EGPRS19 00	661	NV	50	60.67	0.032271	±2.5	PASS
EGPRS19 00	810	NV	-30	63.93	0.033475	±2.5	PASS
EGPRS19 00	810	NV	-20	64.73	0.033894	±2.5	PASS
EGPRS19 00	810	NV	-10	64.70	0.033878	±2.5	PASS
EGPRS19 00	810	NV	0	65.80	0.034454	±2.5	PASS
EGPRS19 00	810	NV	10	60.50	0.031679	±2.5	PASS
EGPRS19 00	810	NV	20	67.32	0.035250	±2.5	PASS
EGPRS19 00	810	NV	30	60.83	0.031852	±2.5	PASS
EGPRS19 00	810	NV	40	60.70	0.031783	±2.5	PASS
EGPRS19 00	810	NV	50	64.02	0.033522	±2.5	PASS



Test Report No.: W7L-P22110001RF05

WDCMA BAND2

PEAK-TO-AVERAGE RATIO

Test Result

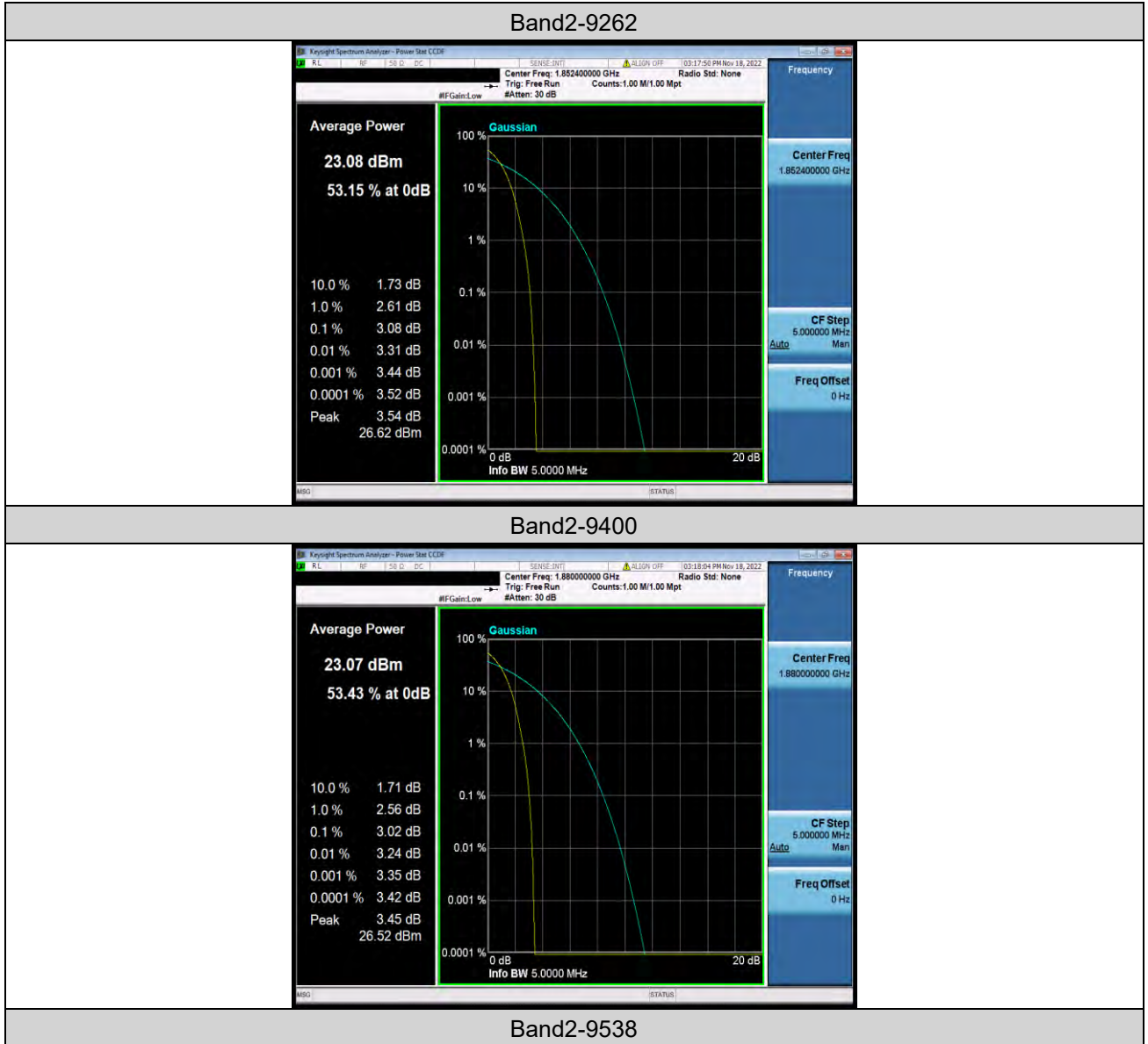
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band2	9262	3.08	13	PASS
Band2	9400	3.02	13	PASS
Band2	9538	2.91	13	PASS



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Test Report No.: W7L-P22110001RF05

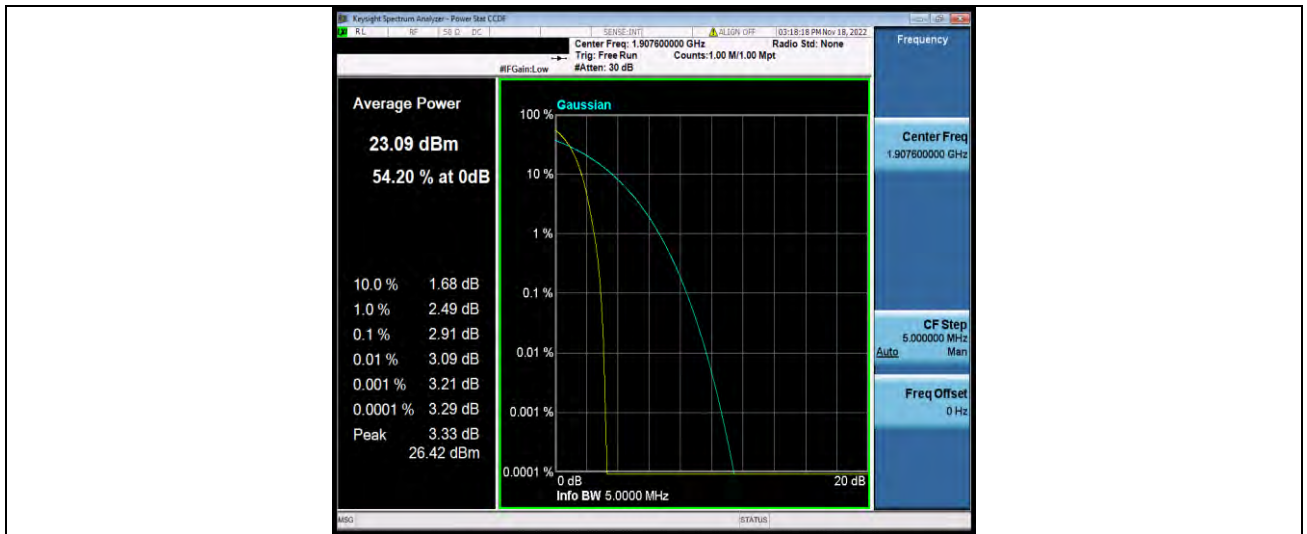
Test Graphs





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Test Report No.: W7L-P22110001RF05





Test Report No.: W7L-P22110001RF05

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.1581	4.722	---	PASS
Band2	9400	4.1603	4.730	---	PASS
Band2	9538	4.1505	4.724	---	PASS



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Test Report No.: W7L-P22110001RF05

Test Graphs





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Test Report No.: W7L-P22110001RF05





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Test Report No.: W7L-P22110001RF05

BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1849.86	-25.79	-13	PASS
Band2	9538	1910.00	-25.90	-13	PASS



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Test Report No.: W7L-P22110001RF05

Test Graphs





CONDUCTED SPURIOUS EMISSION

Test Result

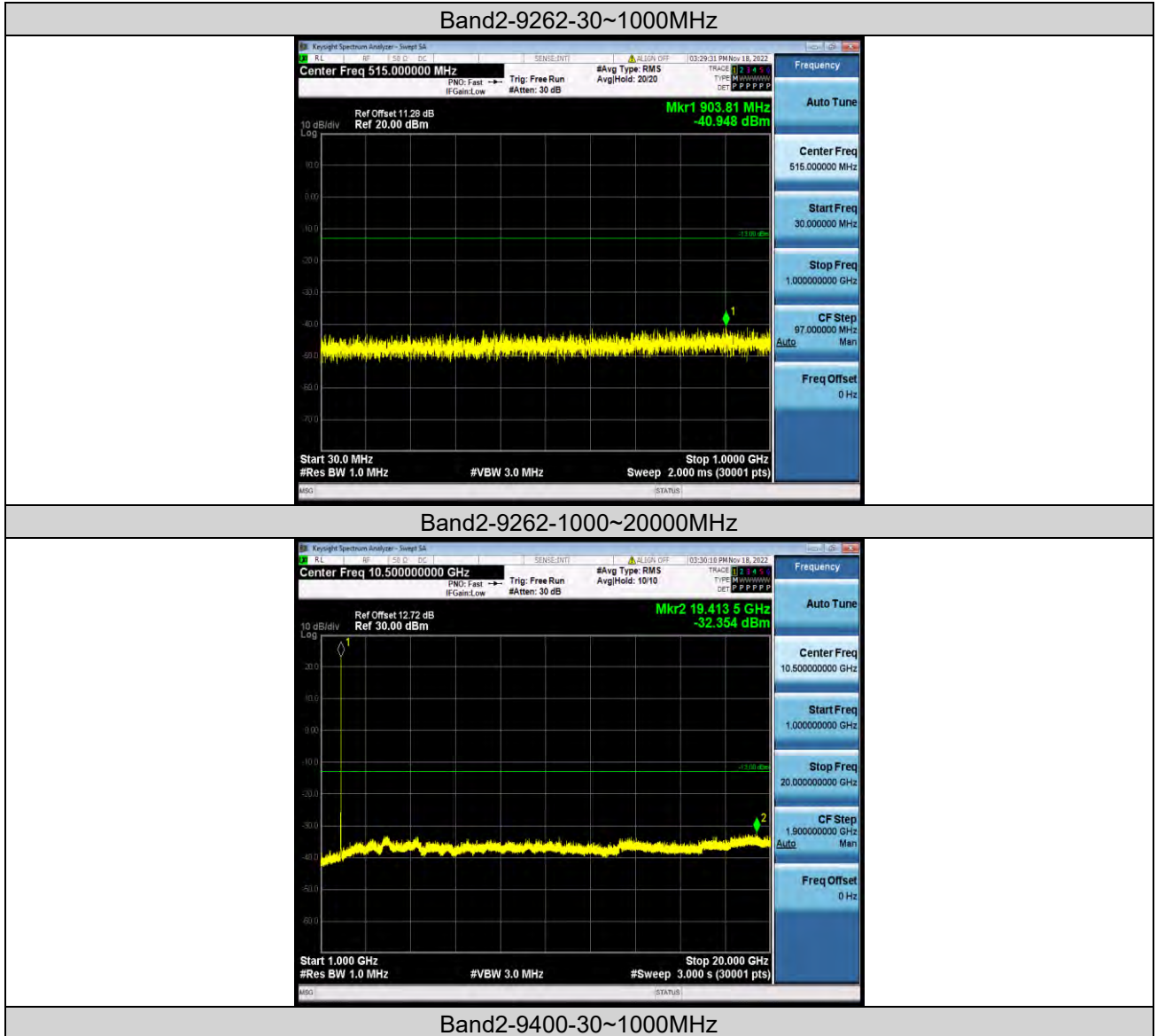
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	30~1000MHz	903.81	-40.95	-13	PASS
Band2	9262	1000~20000MHz	19413.53	-32.35	-13	PASS
Band2	9400	30~1000MHz	931.13	-40.6	-13	PASS
Band2	9400	1000~20000MHz	19181.73	-32.64	-13	PASS
Band2	9538	30~1000MHz	907.4	-40.11	-13	PASS
Band2	9538	1000~20000MHz	19117.13	-31.89	-13	PASS



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Test Report No.: W7L-P22110001RF05

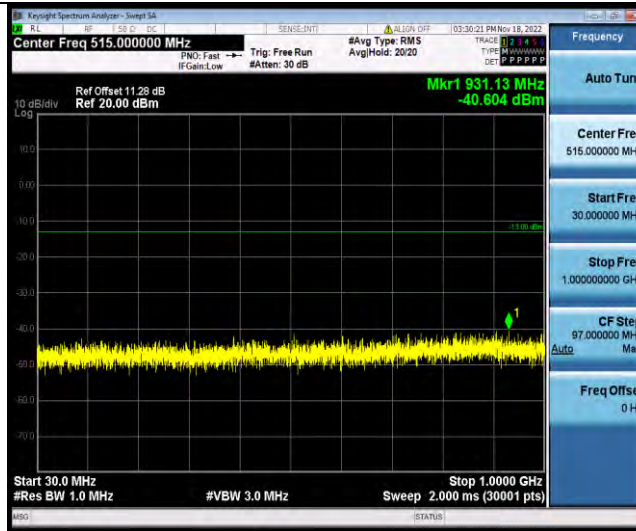
Test Graphs



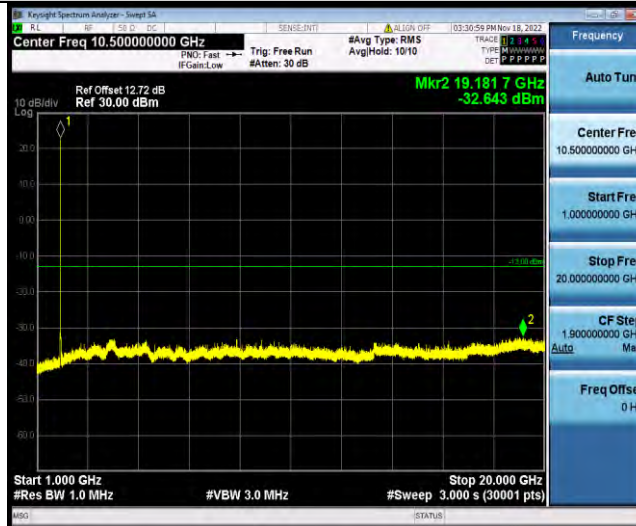


BUREAU VERITAS

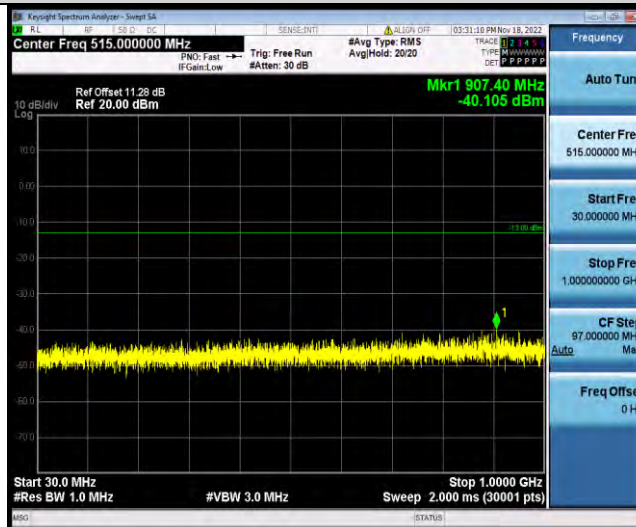
Test Report No.: W7L-P22110001RF05



Band2-9400-1000~20000MHz



Band2-9538-30~1000MHz



Band2-9538-1000~20000MHz

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Test Report No.: W7L-P22110001RF05



FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VL	NT	-0.29	-0.000157	±2.5	PASS
Band2	9262	VN	NT	-0.34	-0.000184	±2.5	PASS
Band2	9262	VH	NT	1.09	0.000588	±2.5	PASS
Band2	9400	VL	NT	-2.30	-0.001223	±2.5	PASS
Band2	9400	VN	NT	-3.08	-0.001638	±2.5	PASS
Band2	9400	VH	NT	-2.14	-0.001138	±2.5	PASS
Band2	9538	VL	NT	-5.34	-0.002799	±2.5	PASS
Band2	9538	VN	NT	-6.54	-0.003428	±2.5	PASS
Band2	9538	VH	NT	-3.31	-0.001735	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	0.42	0.000227	±2.5	PASS
Band2	9262	NV	-20	0.18	0.000097	±2.5	PASS
Band2	9262	NV	0	0.40	0.000216	±2.5	PASS
Band2	9262	NV	10	0.04	0.000022	±2.5	PASS
Band2	9262	NV	20	0.39	0.000211	±2.5	PASS
Band2	9262	NV	30	0.49	0.000265	±2.5	PASS
Band2	9262	NV	40	0.24	0.000130	±2.5	PASS
Band2	9262	NV	50	0.49	0.000265	±2.5	PASS
Band2	9400	NV	-30	-3.43	-0.001824	±2.5	PASS

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VERITAS

Test Report No.: W7L-P22110001RF05

Band2	9400	NV	-20	-2.07	-0.001101	±2.5	PASS
Band2	9400	NV	0	-2.33	-0.001239	±2.5	PASS
Band2	9400	NV	10	-2.79	-0.001484	±2.5	PASS
Band2	9400	NV	20	-0.84	-0.000447	±2.5	PASS
Band2	9400	NV	30	-2.24	-0.001191	±2.5	PASS
Band2	9400	NV	40	-2.35	-0.001250	±2.5	PASS
Band2	9400	NV	50	-3.02	-0.001606	±2.5	PASS
Band2	9538	NV	-30	-6.48	-0.003397	±2.5	PASS
Band2	9538	NV	-20	-5.76	-0.003020	±2.5	PASS
Band2	9538	NV	0	-5.62	-0.002946	±2.5	PASS
Band2	9538	NV	10	-5.36	-0.002810	±2.5	PASS
Band2	9538	NV	20	-5.78	-0.003030	±2.5	PASS
Band2	9538	NV	30	-5.59	-0.002930	±2.5	PASS
Band2	9538	NV	40	-5.69	-0.002983	±2.5	PASS
Band2	9538	NV	50	-4.34	-0.002275	±2.5	PASS



LTE BAND2

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	3.83	13	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	5.05	13	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	3.73	13	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	5.19	13	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	3.55	13	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	4.77	13	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	4.80	13	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	5.90	13	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	4.64	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	6.06	13	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	4.47	13	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	5.63	13	PASS
Band2	1.4MHz	64QAM	18607	1RB#0	5.50	13	PASS
Band2	1.4MHz	64QAM	18607	6RB#0	6.54	13	PASS
Band2	1.4MHz	64QAM	18900	1RB#0	5.65	13	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	6.84	13	PASS
Band2	1.4MHz	64QAM	19193	1RB#0	5.34	13	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	6.38	13	PASS
Band2	3MHz	QPSK	18615	1RB#0	3.79	13	PASS
Band2	3MHz	QPSK	18615	15RB#0	5.12	13	PASS
Band2	3MHz	QPSK	18900	1RB#0	3.83	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	5.22	13	PASS
Band2	3MHz	QPSK	19185	1RB#0	3.62	13	PASS
Band2	3MHz	QPSK	19185	15RB#0	4.87	13	PASS
Band2	3MHz	16QAM	18615	1RB#0	4.71	13	PASS
Band2	3MHz	16QAM	18615	15RB#0	5.92	13	PASS
Band2	3MHz	16QAM	18900	1RB#0	4.73	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	6.12	13	PASS
Band2	3MHz	16QAM	19185	1RB#0	4.55	13	PASS
Band2	3MHz	16QAM	19185	15RB#0	5.81	13	PASS
Band2	3MHz	64QAM	18615	1RB#0	5.71	13	PASS
Band2	3MHz	64QAM	18615	15RB#0	6.60	13	PASS
Band2	3MHz	64QAM	18900	1RB#0	5.78	13	PASS
Band2	3MHz	64QAM	18900	15RB#0	6.73	13	PASS
Band2	3MHz	64QAM	19185	1RB#0	5.65	13	PASS
Band2	3MHz	64QAM	19185	15RB#0	6.58	13	PASS
Band2	5MHz	QPSK	18625	1RB#0	3.75	13	PASS
Band2	5MHz	QPSK	18625	25RB#0	5.08	13	PASS
Band2	5MHz	QPSK	18900	1RB#0	3.79	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	5.08	13	PASS
Band2	5MHz	QPSK	19175	1RB#0	3.80	13	PASS



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VERITAS**

Test Report No.: W7L-P22110001RF05

Band2	5MHz	QPSK	19175	25RB#0	4.91	13	PASS
Band2	5MHz	16QAM	18625	1RB#0	4.63	13	PASS
Band2	5MHz	16QAM	18625	25RB#0	5.95	13	PASS
Band2	5MHz	16QAM	18900	1RB#0	4.64	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	5.92	13	PASS
Band2	5MHz	16QAM	19175	1RB#0	4.44	13	PASS
Band2	5MHz	16QAM	19175	25RB#0	5.83	13	PASS
Band2	5MHz	64QAM	18625	1RB#0	5.50	13	PASS
Band2	5MHz	64QAM	18625	25RB#0	6.58	13	PASS
Band2	5MHz	64QAM	18900	1RB#0	5.62	13	PASS
Band2	5MHz	64QAM	18900	25RB#0	6.62	13	PASS
Band2	5MHz	64QAM	19175	1RB#0	5.71	13	PASS
Band2	5MHz	64QAM	19175	25RB#0	6.58	13	PASS
Band2	10MHz	QPSK	18650	1RB#0	3.70	13	PASS
Band2	10MHz	QPSK	18650	50RB#0	5.18	13	PASS
Band2	10MHz	QPSK	18900	1RB#0	3.76	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.00	13	PASS
Band2	10MHz	QPSK	19150	1RB#0	3.95	13	PASS
Band2	10MHz	QPSK	19150	50RB#0	5.11	13	PASS
Band2	10MHz	16QAM	18650	1RB#0	4.43	13	PASS
Band2	10MHz	16QAM	18650	50RB#0	6.09	13	PASS
Band2	10MHz	16QAM	18900	1RB#0	4.65	13	PASS
Band2	10MHz	16QAM	18900	50RB#0	5.89	13	PASS
Band2	10MHz	16QAM	19150	1RB#0	4.85	13	PASS
Band2	10MHz	16QAM	19150	50RB#0	5.97	13	PASS
Band2	10MHz	64QAM	18650	1RB#0	5.58	13	PASS
Band2	10MHz	64QAM	18650	50RB#0	6.61	13	PASS
Band2	10MHz	64QAM	18900	1RB#0	5.73	13	PASS
Band2	10MHz	64QAM	18900	50RB#0	6.51	13	PASS
Band2	10MHz	64QAM	19150	1RB#0	5.88	13	PASS
Band2	10MHz	64QAM	19150	50RB#0	6.67	13	PASS
Band2	15MHz	QPSK	18675	1RB#0	3.64	13	PASS
Band2	15MHz	QPSK	18675	75RB#0	5.43	13	PASS
Band2	15MHz	QPSK	18900	1RB#0	3.79	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	5.21	13	PASS
Band2	15MHz	QPSK	19125	1RB#0	3.80	13	PASS
Band2	15MHz	QPSK	19125	75RB#0	5.47	13	PASS
Band2	15MHz	16QAM	18675	1RB#0	4.48	13	PASS
Band2	15MHz	16QAM	18675	75RB#0	6.19	13	PASS
Band2	15MHz	16QAM	18900	1RB#0	4.68	13	PASS
Band2	15MHz	16QAM	18900	75RB#0	5.99	13	PASS
Band2	15MHz	16QAM	19125	1RB#0	4.66	13	PASS
Band2	15MHz	16QAM	19125	75RB#0	6.21	13	PASS
Band2	15MHz	64QAM	18675	1RB#0	5.60	13	PASS
Band2	15MHz	64QAM	18675	75RB#0	6.69	13	PASS
Band2	15MHz	64QAM	18900	1RB#0	5.79	13	PASS
Band2	15MHz	64QAM	18900	75RB#0	6.52	13	PASS
Band2	15MHz	64QAM	19125	1RB#0	5.56	13	PASS
Band2	15MHz	64QAM	19125	75RB#0	6.80	13	PASS
Band2	20MHz	QPSK	18700	1RB#0	3.70	13	PASS
Band2	20MHz	QPSK	18700	100RB#0	5.30	13	PASS
Band2	20MHz	QPSK	18900	1RB#0	3.84	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.03	13	PASS

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VERITAS

Test Report No.: W7L-P22110001RF05

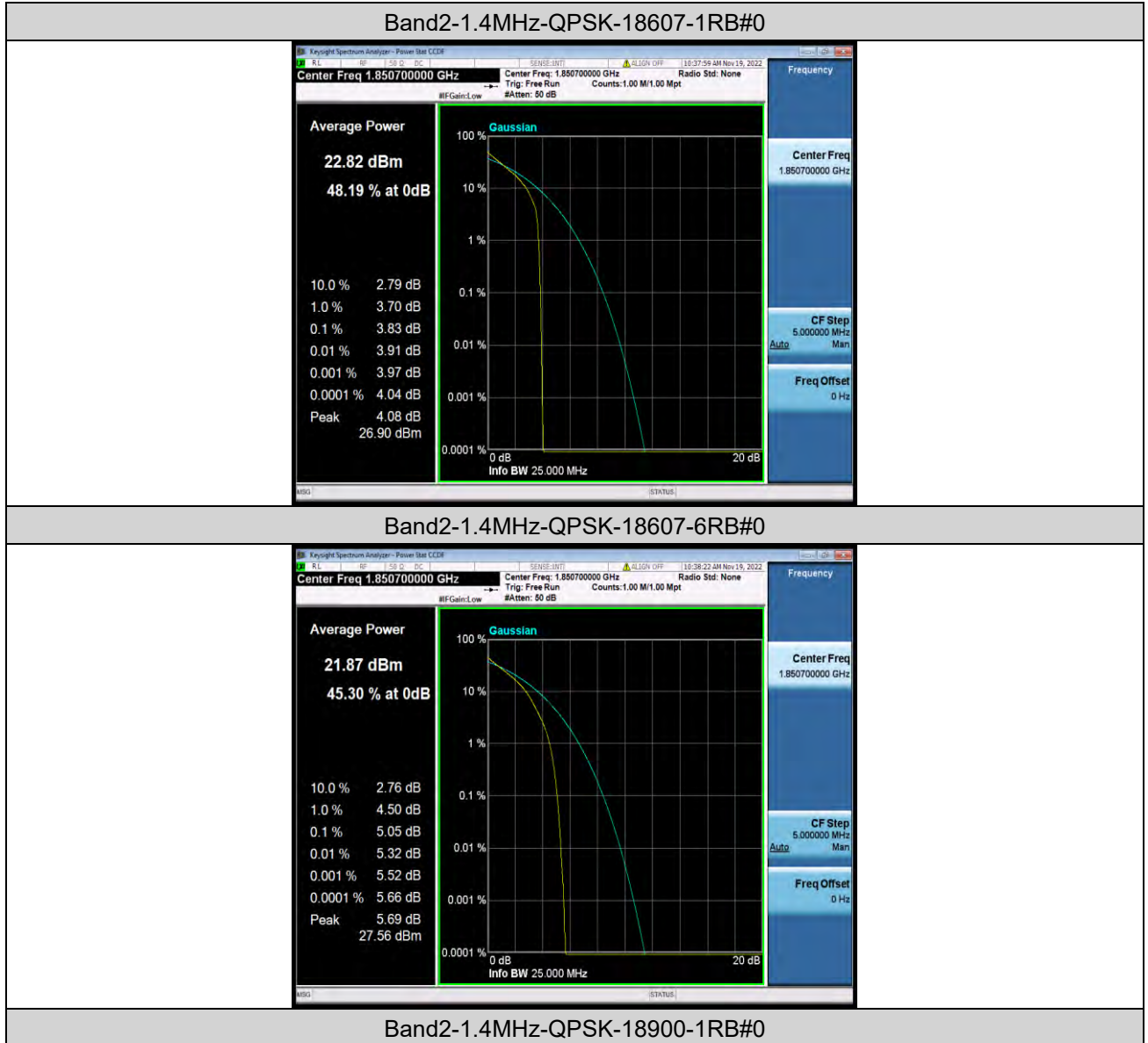
Band2	20MHz	QPSK	19100	1RB#0	3.78	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.39	13	PASS
Band2	20MHz	16QAM	18700	1RB#0	4.70	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.14	13	PASS
Band2	20MHz	16QAM	18900	1RB#0	4.70	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	5.88	13	PASS
Band2	20MHz	16QAM	19100	1RB#0	4.57	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.23	13	PASS
Band2	20MHz	64QAM	18700	1RB#0	5.51	13	PASS
Band2	20MHz	64QAM	18700	100RB#0	6.71	13	PASS
Band2	20MHz	64QAM	18900	1RB#0	5.87	13	PASS
Band2	20MHz	64QAM	18900	100RB#0	6.52	13	PASS
Band2	20MHz	64QAM	19100	1RB#0	5.71	13	PASS
Band2	20MHz	64QAM	19100	100RB#0	6.74	13	PASS



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VERITAS

Test Report No.: W7L-P22110001RF05

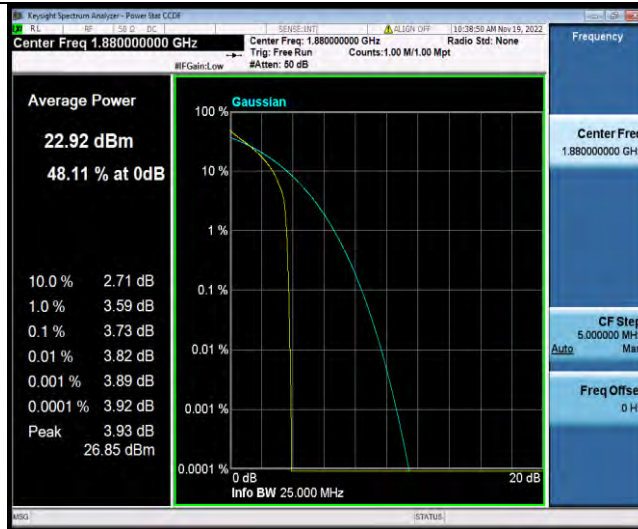
Test Graphs



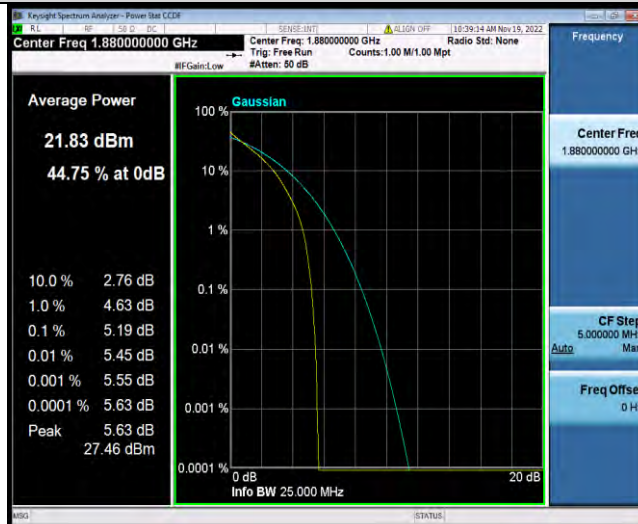


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Test Report No.: W7L-P22110001RF05



Band2-1.4MHz-QPSK-18900-6RB#0



Band2-1.4MHz-QPSK-19193-1RB#0



Band2-1.4MHz-QPSK-19193-6RB#0

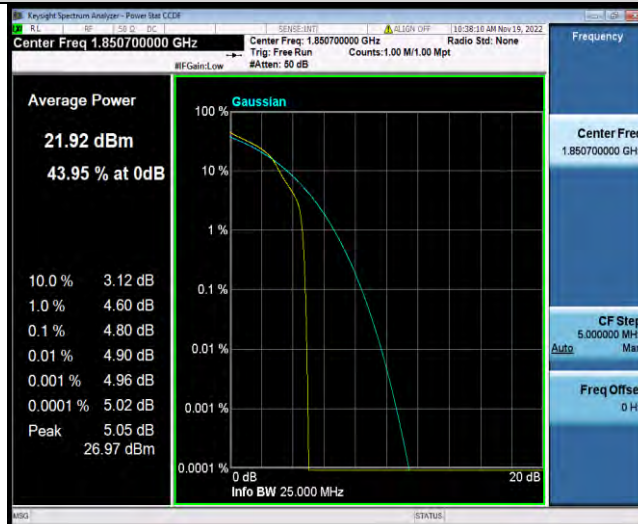


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Test Report No.: W7L-P22110001RF05



Band2-1.4MHz-16QAM-18607-1RB#0



Band2-1.4MHz-16QAM-18607-6RB#0



Band2-1.4MHz-16QAM-18900-1RB#0



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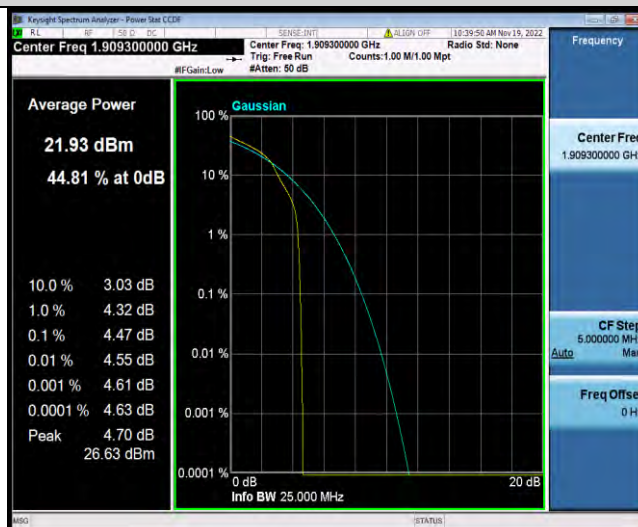
Test Report No.: W7L-P22110001RF05



Band2-1.4MHz-16QAM-18900-6RB#0



Band2-1.4MHz-16QAM-19193-1RB#0

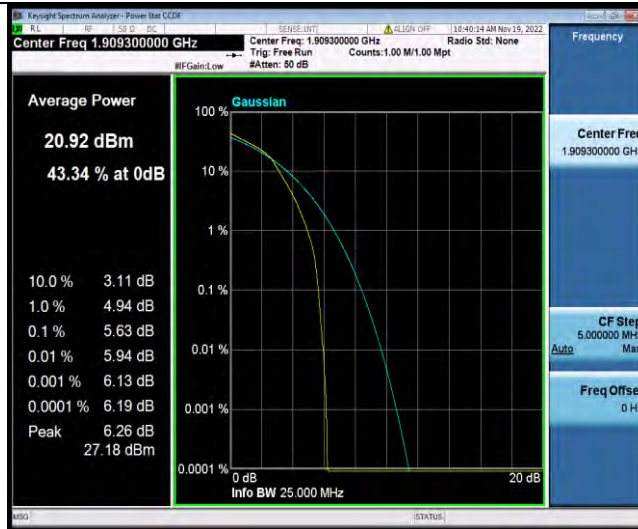


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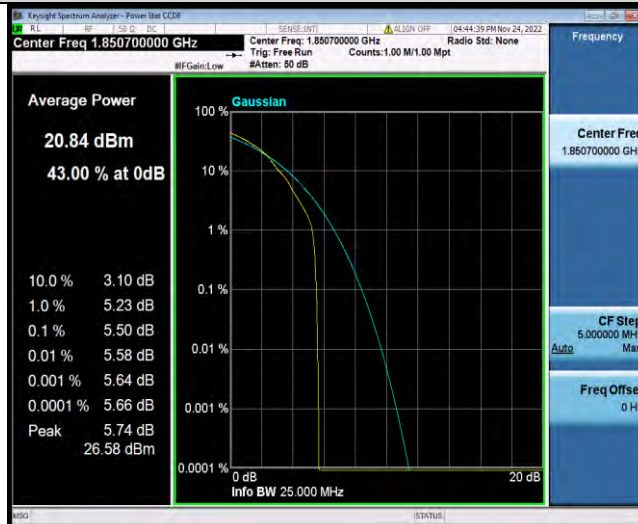


BUREAU VERITAS

Test Report No.: W7L-P22110001RF05



Band2-1.4MHz-64QAM-18607-1RB#0



Band2-1.4MHz-64QAM-18607-6RB#0



Band2-1.4MHz-64QAM-18900-1RB#0

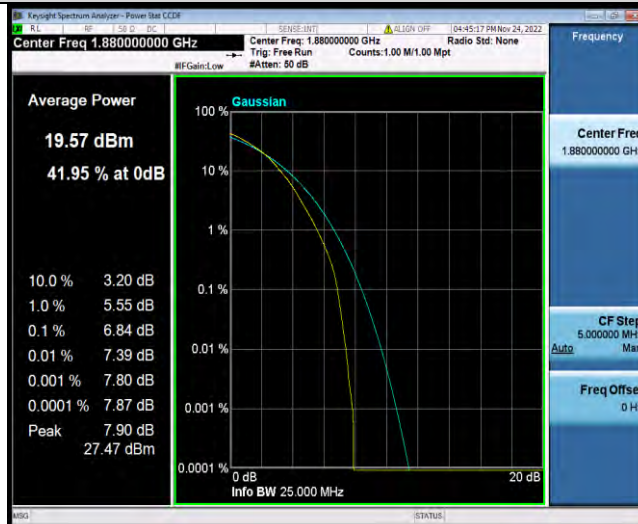


BUREAU VERITAS

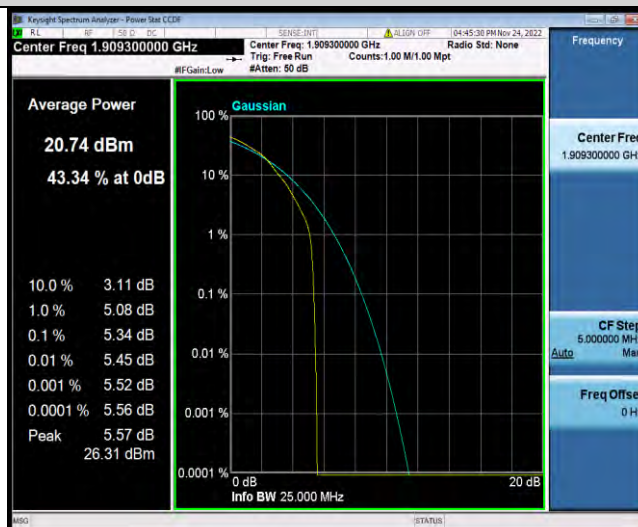
Test Report No.: W7L-P22110001RF05



Band2-1.4MHz-64QAM-18900-6RB#0



Band2-1.4MHz-64QAM-19193-1RB#0



Band2-1.4MHz-64QAM-19193-6RB#0