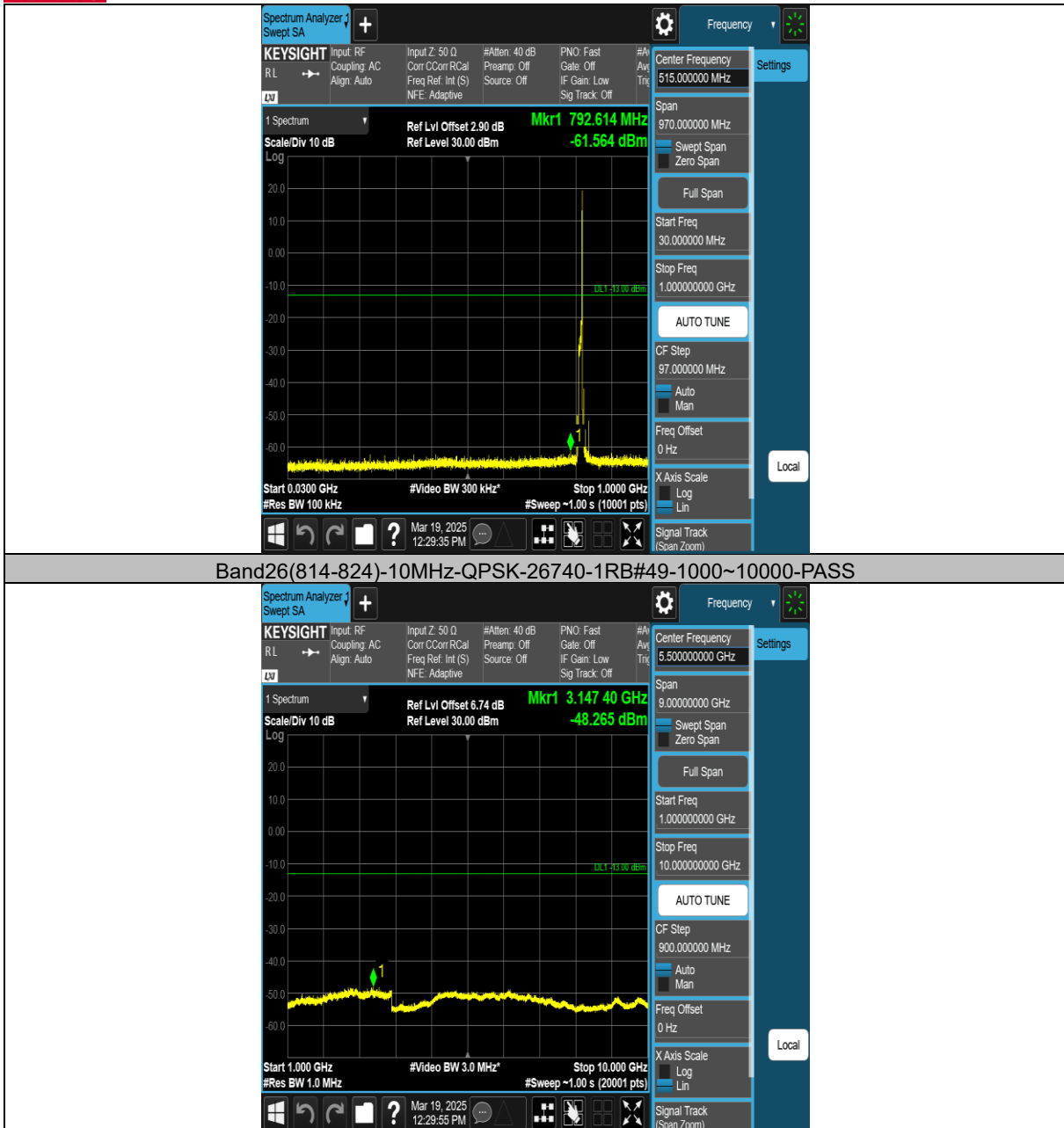






APPENDIX : FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26(8 14-824)	10MHz	QPSK	26740	50RB#0	VN	NT	-8.54	- 0.010427	±2.5	PASS
Band26(8 14-824)	10MHz	QPSK	26740	50RB#0	VL	NT	-8.57	- 0.010464	±2.5	PASS
Band26(8 14-824)	10MHz	QPSK	26740	50RB#0	VH	NT	-7.17	- 0.008755	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26(8 14-824)	10MHz	QPSK	26740	50RB#0	NV	-30	-7.45	- 0.009096	±2.5	PASS
Band26(8 14-824)	10MHz	QPSK	26740	50RB#0	NV	-20	-7.77	- 0.009487	±2.5	PASS
Band26(8 14-824)	10MHz	QPSK	26740	50RB#0	NV	-10	-6.97	- 0.008510	±2.5	PASS
Band26(8 14-824)	10MHz	QPSK	26740	50RB#0	NV	0	-8.65	- 0.010562	±2.5	PASS
Band26(8 14-824)	10MHz	QPSK	26740	50RB#0	NV	10	-9.51	- 0.011612	±2.5	PASS
Band26(8 14-824)	10MHz	QPSK	26740	50RB#0	NV	20	-7.35	- 0.008974	±2.5	PASS
Band26(8 14-824)	10MHz	QPSK	26740	50RB#0	NV	30	-7.88	- 0.009621	±2.5	PASS
Band26(8 14-824)	10MHz	QPSK	26740	50RB#0	NV	40	-7.57	- 0.009243	±2.5	PASS
Band26(8 14-824)	10MHz	QPSK	26740	50RB#0	NV	50	-8.04	- 0.009817	±2.5	PASS



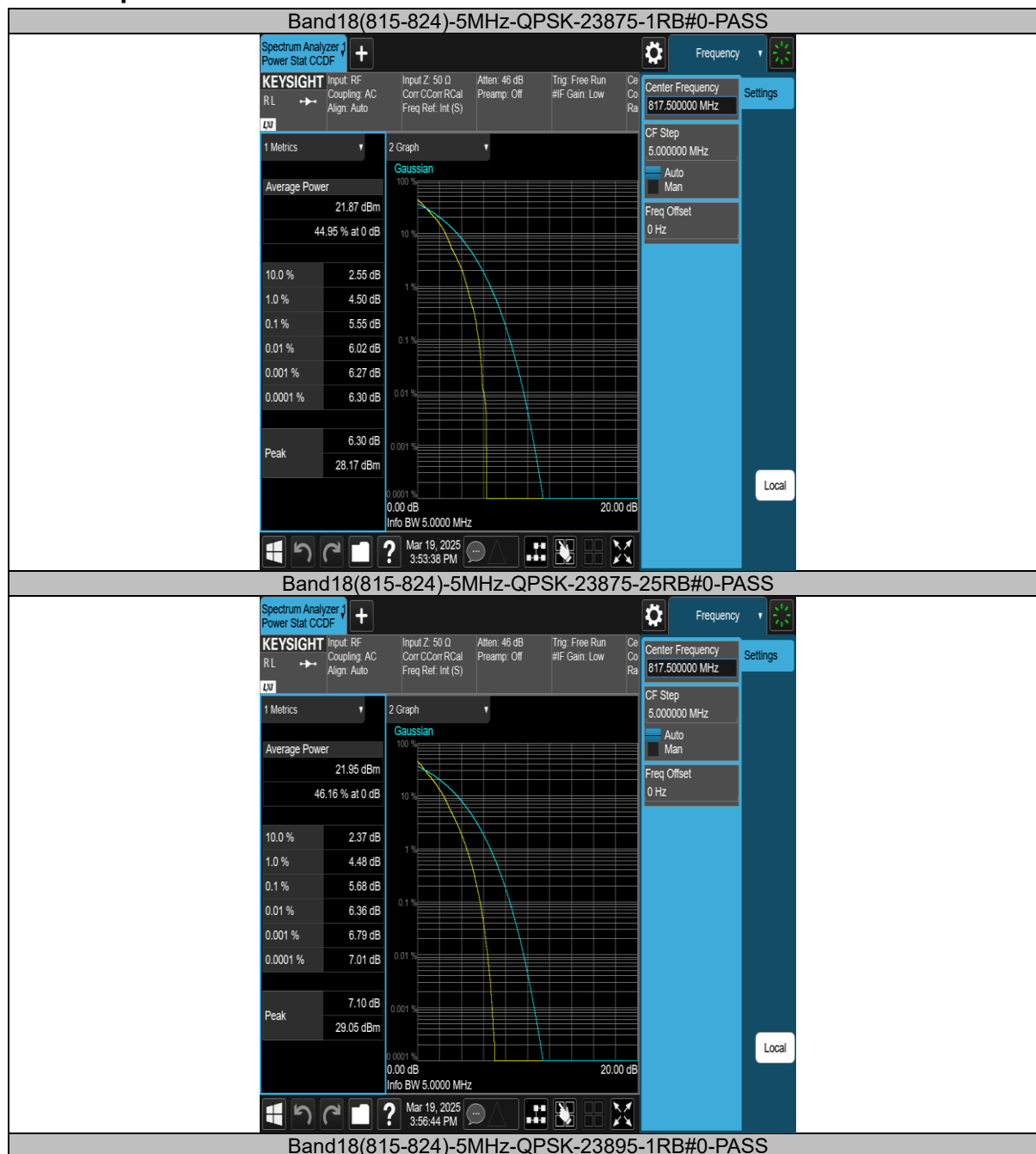
Appendix : Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band18(815-824)	5MHz	QPSK	23875	1RB#0	5.55	13	PASS
Band18(815-824)	5MHz	QPSK	23875	25RB#0	5.68	13	PASS
Band18(815-824)	5MHz	QPSK	23895	1RB#0	5.73	13	PASS
Band18(815-824)	5MHz	QPSK	23895	25RB#0	5.73	13	PASS
Band18(815-824)	5MHz	QPSK	23915	1RB#0	5.86	13	PASS
Band18(815-824)	5MHz	QPSK	23915	25RB#0	5.66	13	PASS
Band18(815-824)	5MHz	16QAM	23875	1RB#0	6.01	13	PASS
Band18(815-824)	5MHz	16QAM	23875	25RB#0	6.42	13	PASS
Band18(815-824)	5MHz	16QAM	23895	1RB#0	6.37	13	PASS
Band18(815-824)	5MHz	16QAM	23895	25RB#0	6.52	13	PASS
Band18(815-824)	5MHz	16QAM	23915	1RB#0	6.37	13	PASS
Band18(815-824)	5MHz	16QAM	23915	25RB#0	6.40	13	PASS



Test Graphs

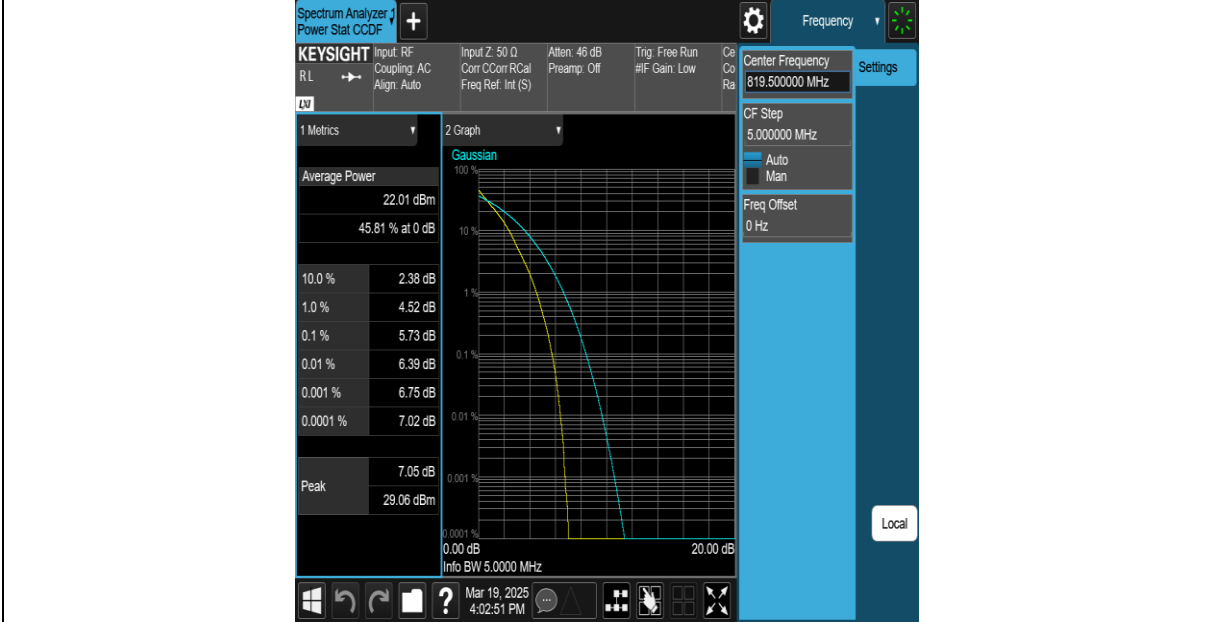




BUREAU VERITAS Test Report No.: PSU-QS22503050113RF05



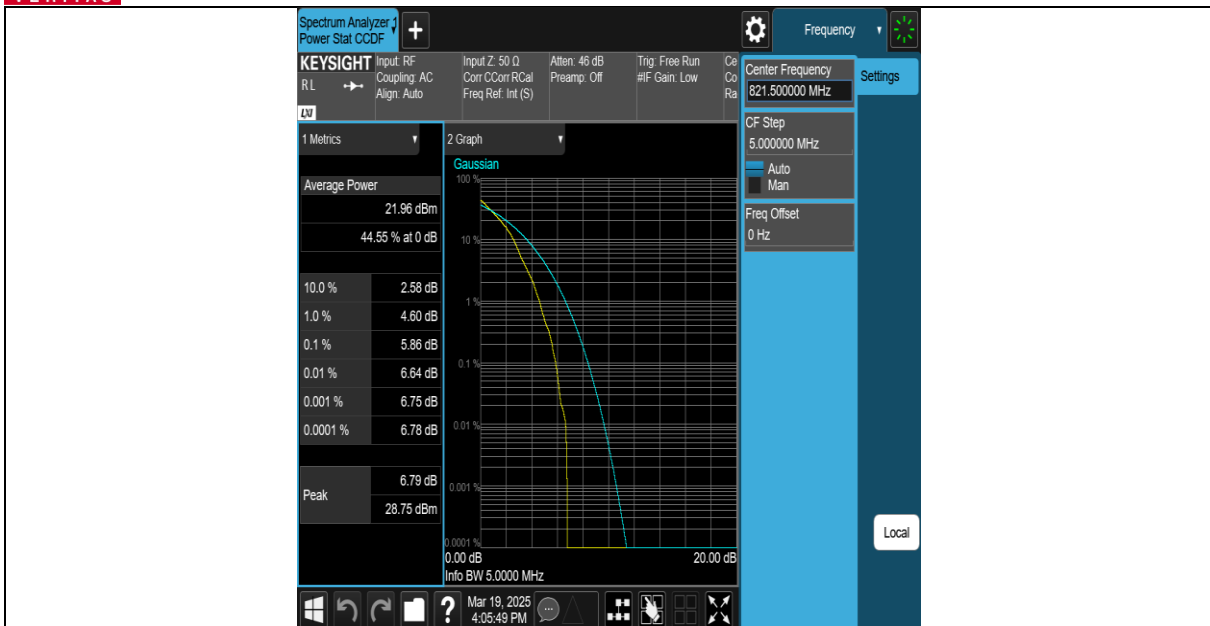
Band18(815-824)-5MHz-QPSK-23895-25RB#0-PASS



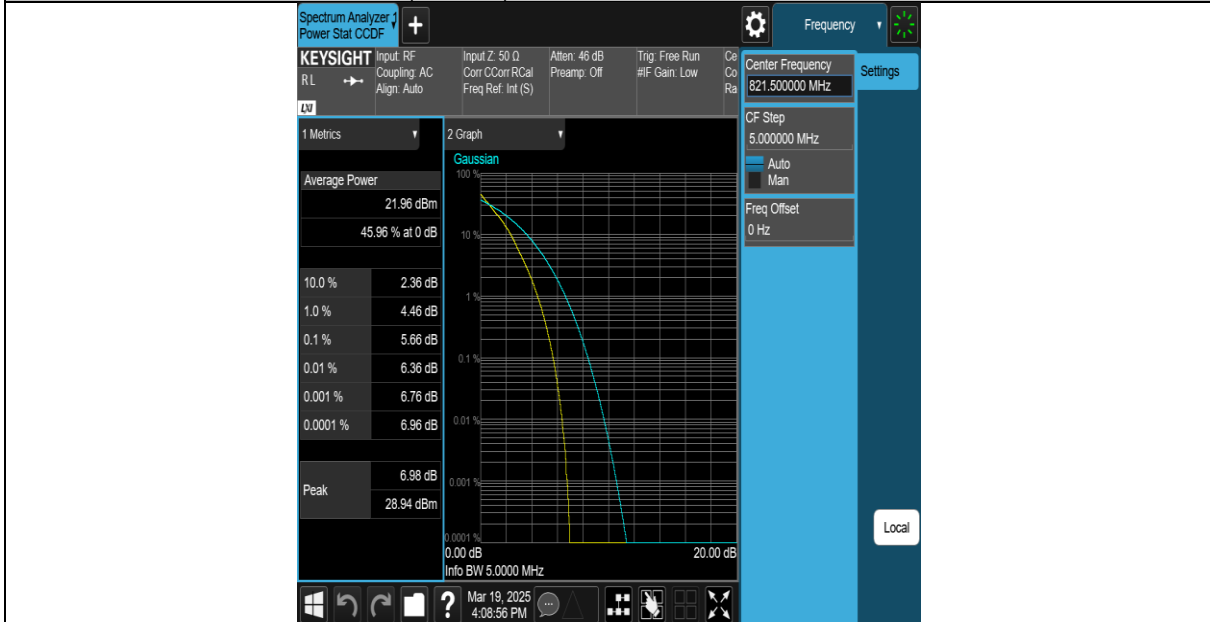
Band18(815-824)-5MHz-QPSK-23915-1RB#0-PASS



BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF05



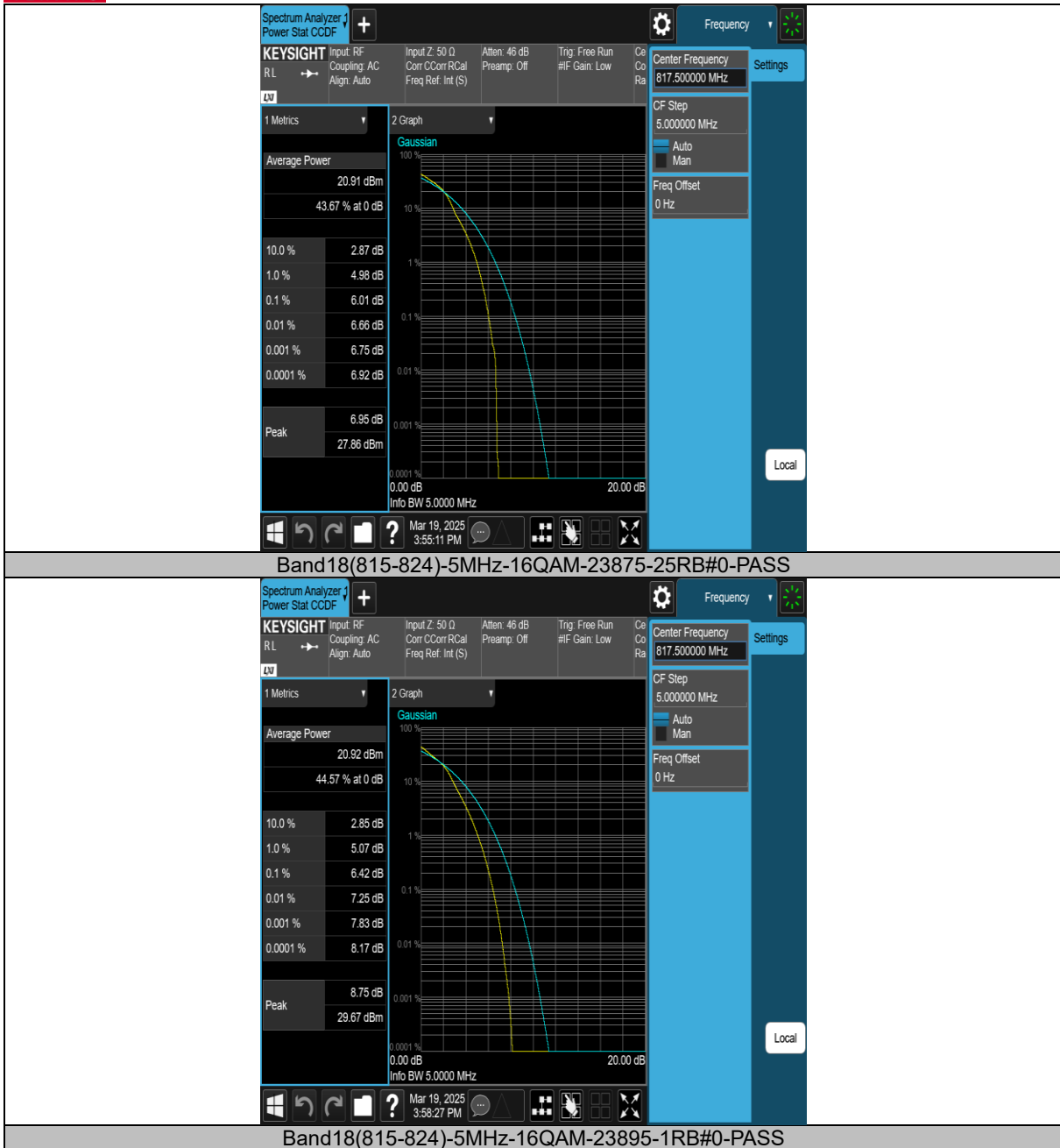
Band18(815-824)-5MHz-QPSK-23915-25RB#0-PASS



Band18(815-824)-5MHz-16QAM-23875-1RB#0-PASS

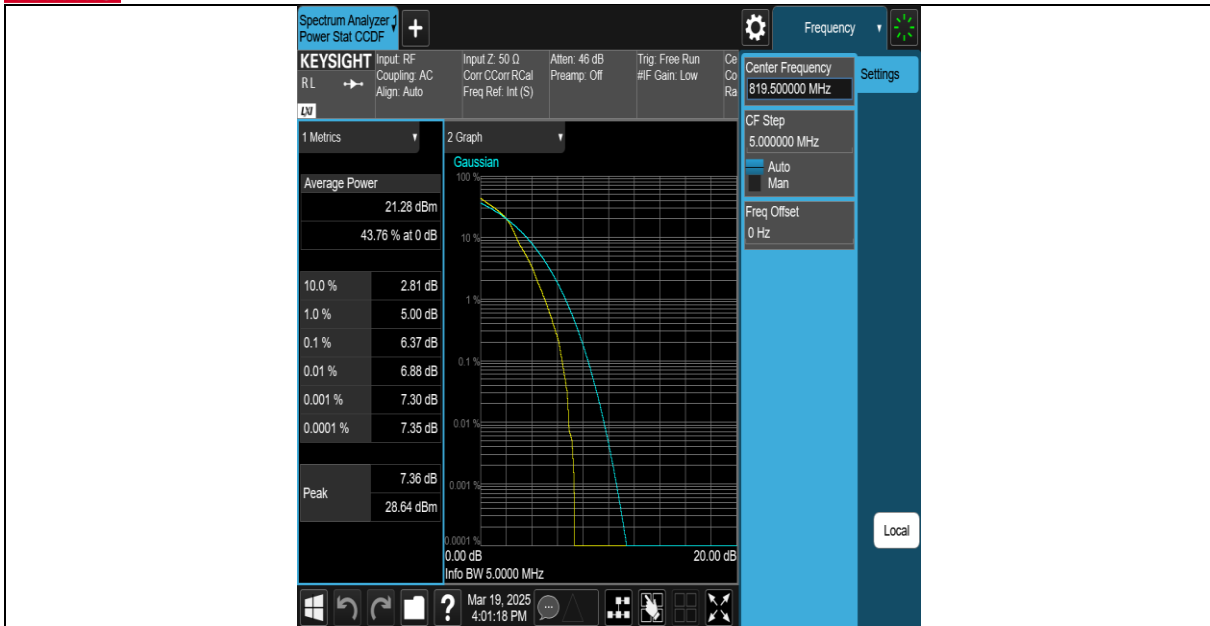


BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF05

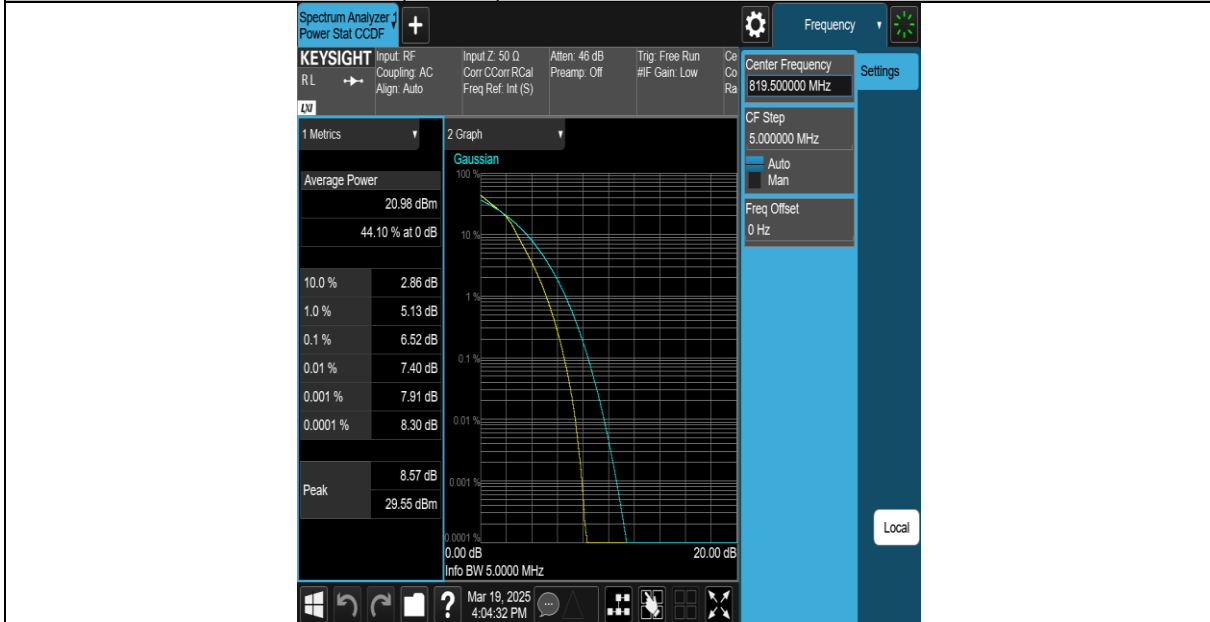




BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF05



Band18(815-824)-5MHz-16QAM-23895-25RB#0-PASS



Band18(815-824)-5MHz-16QAM-23915-1RB#0-PASS



BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF05





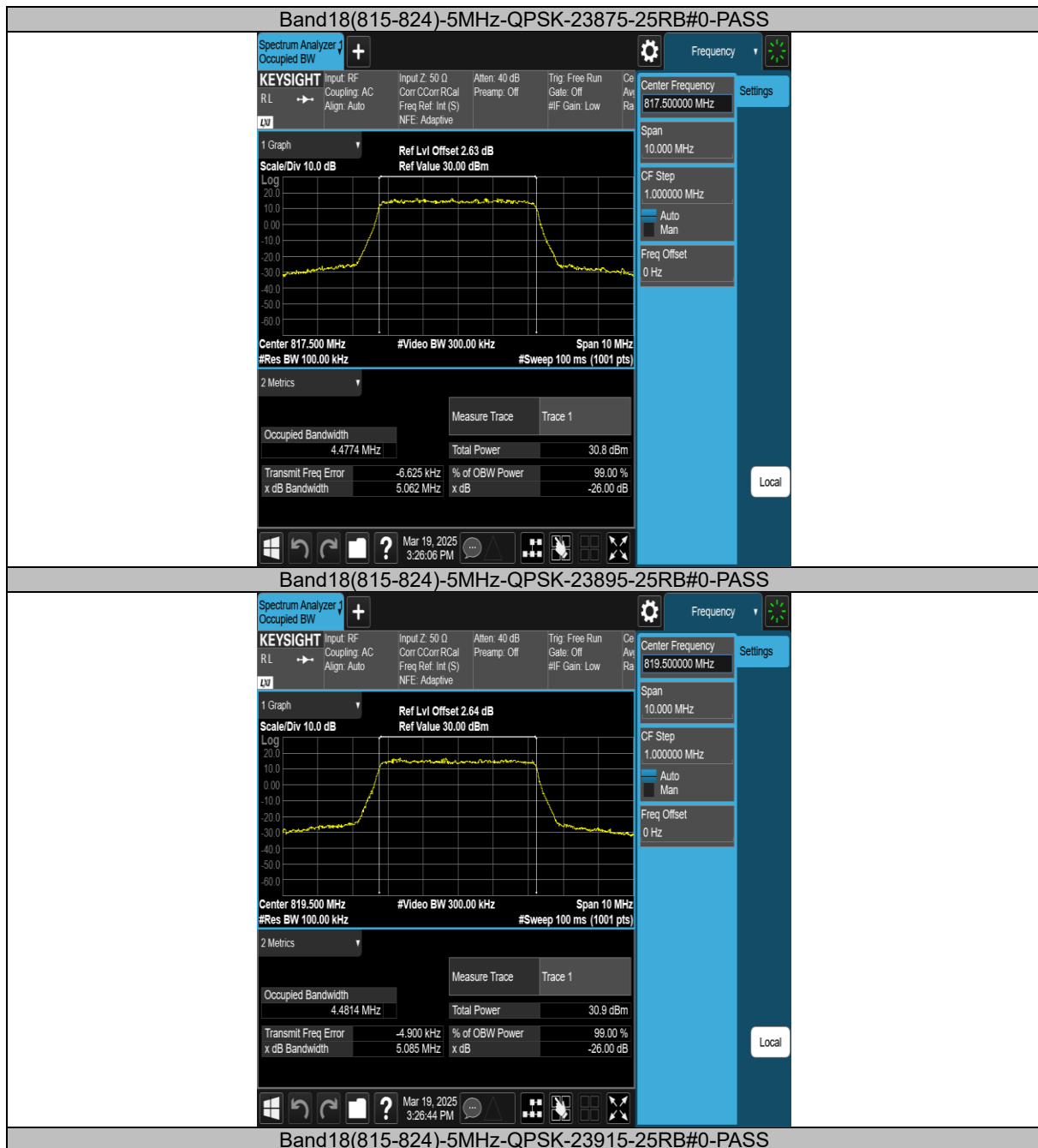
Appendix : 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band18(815-824)	5MHz	QPSK	23875	25RB#0	4.4774	5.062	PASS
Band18(815-824)	5MHz	QPSK	23895	25RB#0	4.4814	5.085	PASS
Band18(815-824)	5MHz	QPSK	23915	25RB#0	4.4822	5.066	PASS
Band18(815-824)	5MHz	16QAM	23875	25RB#0	4.4750	5.078	PASS
Band18(815-824)	5MHz	16QAM	23895	25RB#0	4.4848	5.095	PASS
Band18(815-824)	5MHz	16QAM	23915	25RB#0	4.4848	5.061	PASS

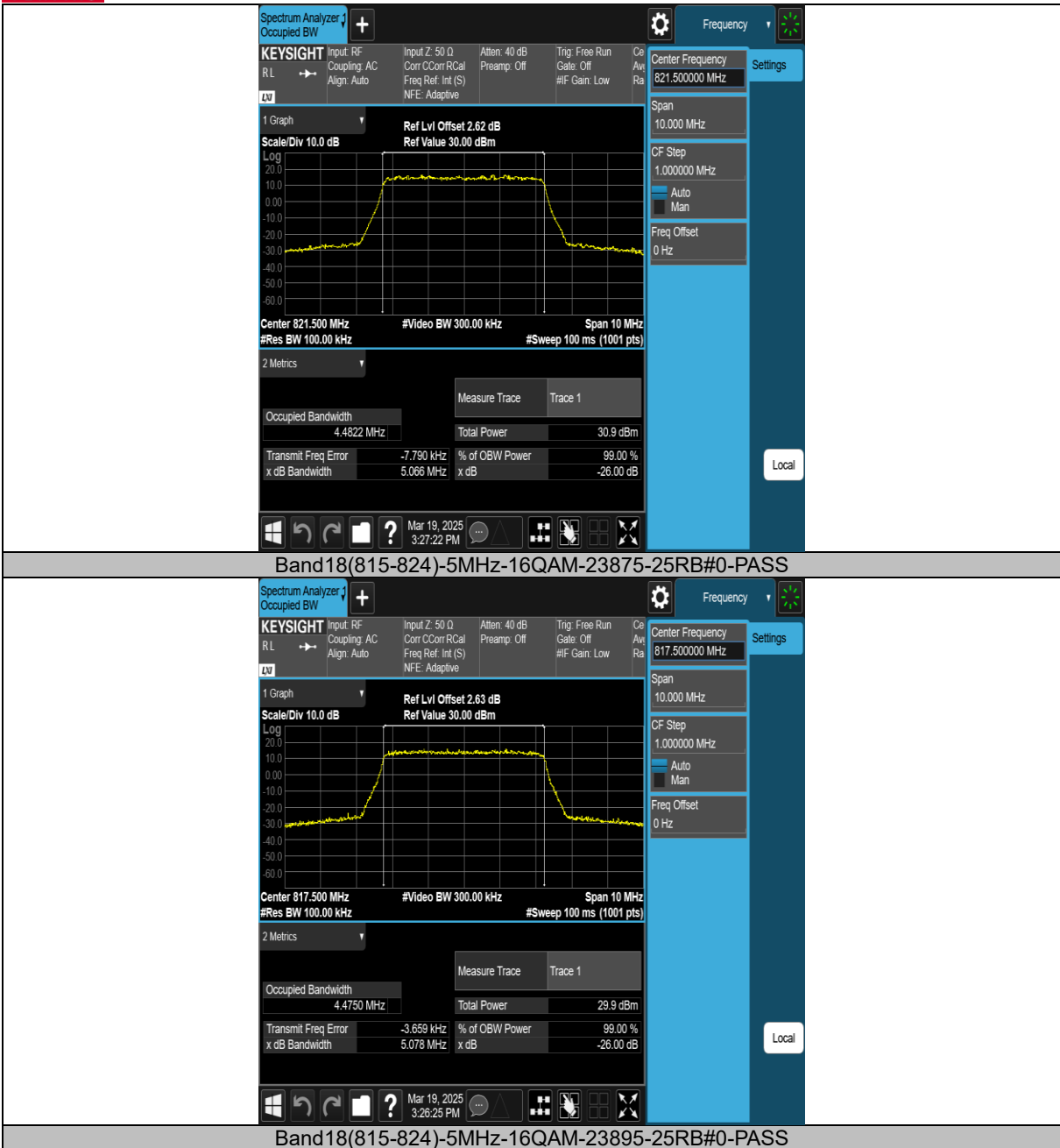


Test Graphs





BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF05





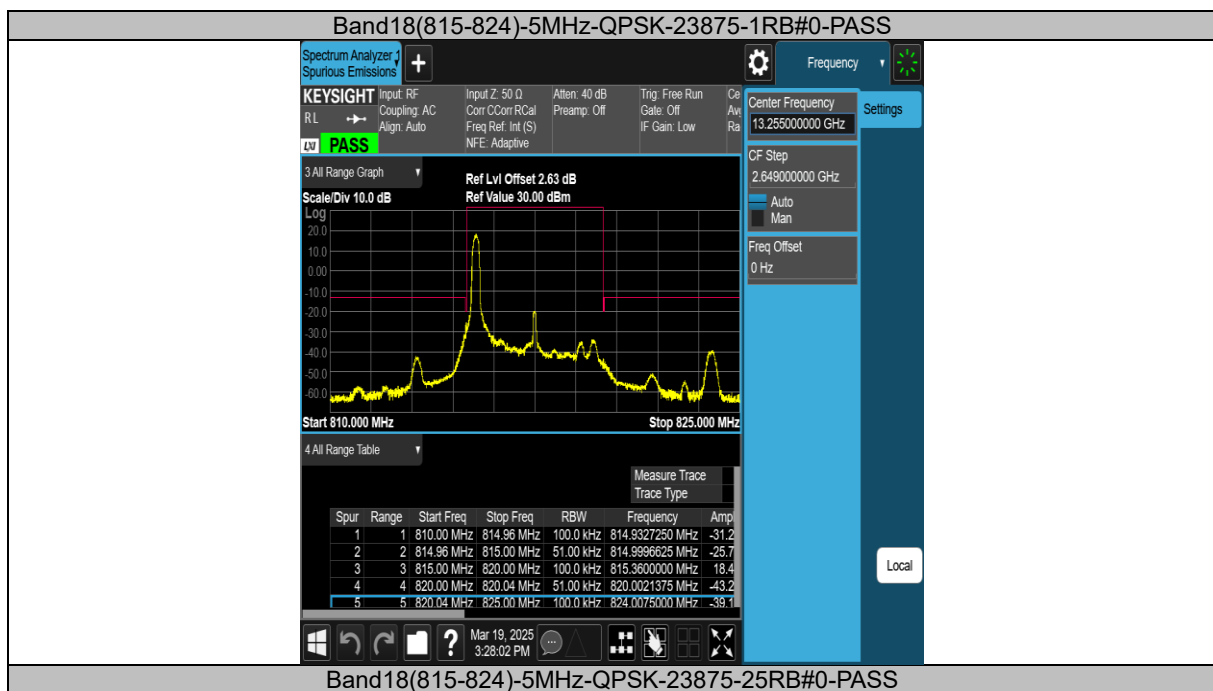


Appendix : Band Edge

Test Result

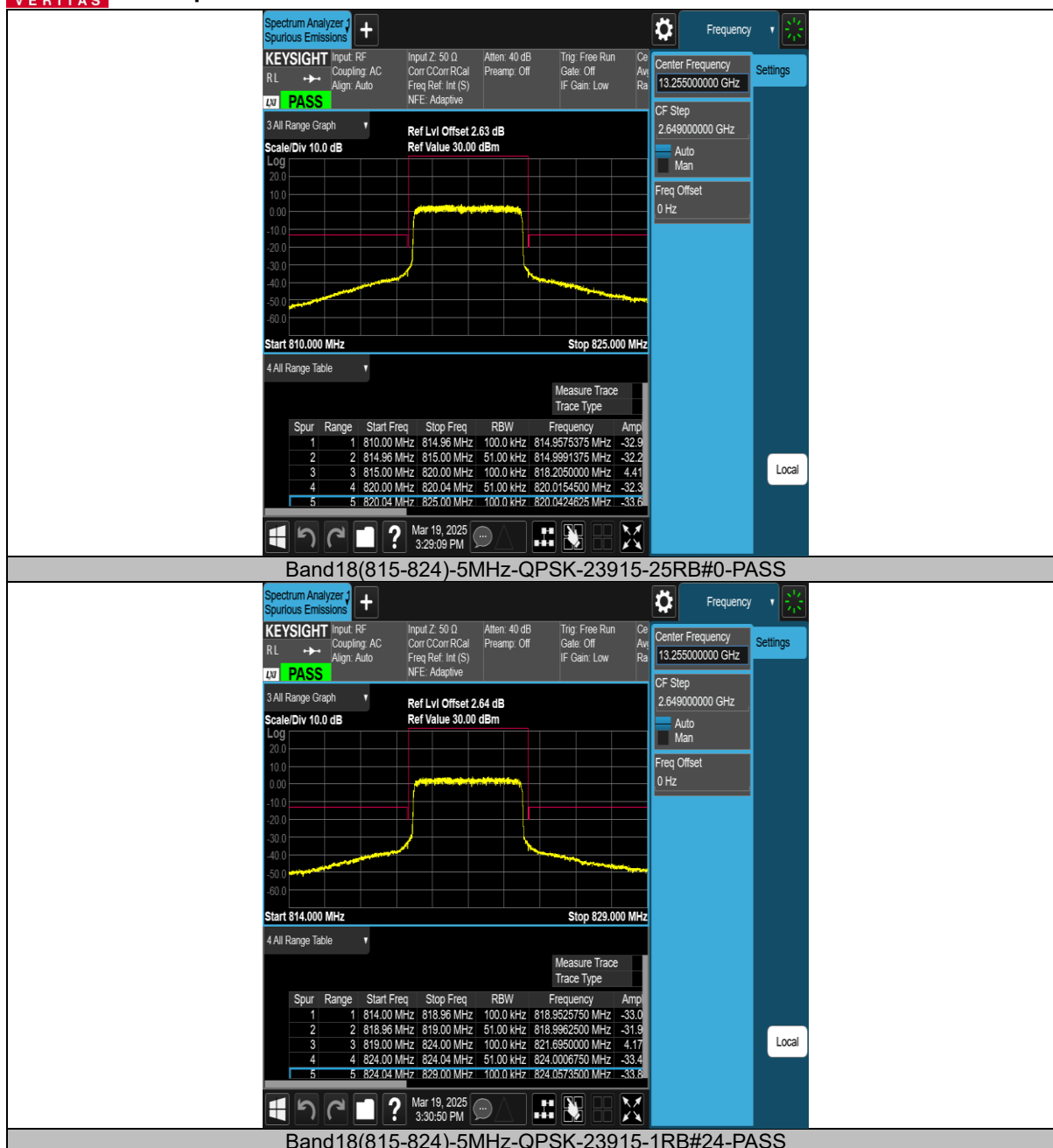
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band18(815-824)	5MHz	QPSK	23875	1RB#0	-25.73	PASS
Band18(815-824)	5MHz	QPSK	23875	25RB#0	-32.27	PASS
Band18(815-824)	5MHz	QPSK	23915	25RB#0	-31.93	PASS
Band18(815-824)	5MHz	QPSK	23915	1RB#24	-24.93	PASS
Band18(815-824)	5MHz	16QAM	23875	1RB#0	-26.69	PASS
Band18(815-824)	5MHz	16QAM	23875	25RB#0	-33.32	PASS
Band18(815-824)	5MHz	16QAM	23915	25RB#0	-33.04	PASS
Band18(815-824)	5MHz	16QAM	23915	1RB#24	-26.96	PASS

Test Graphs



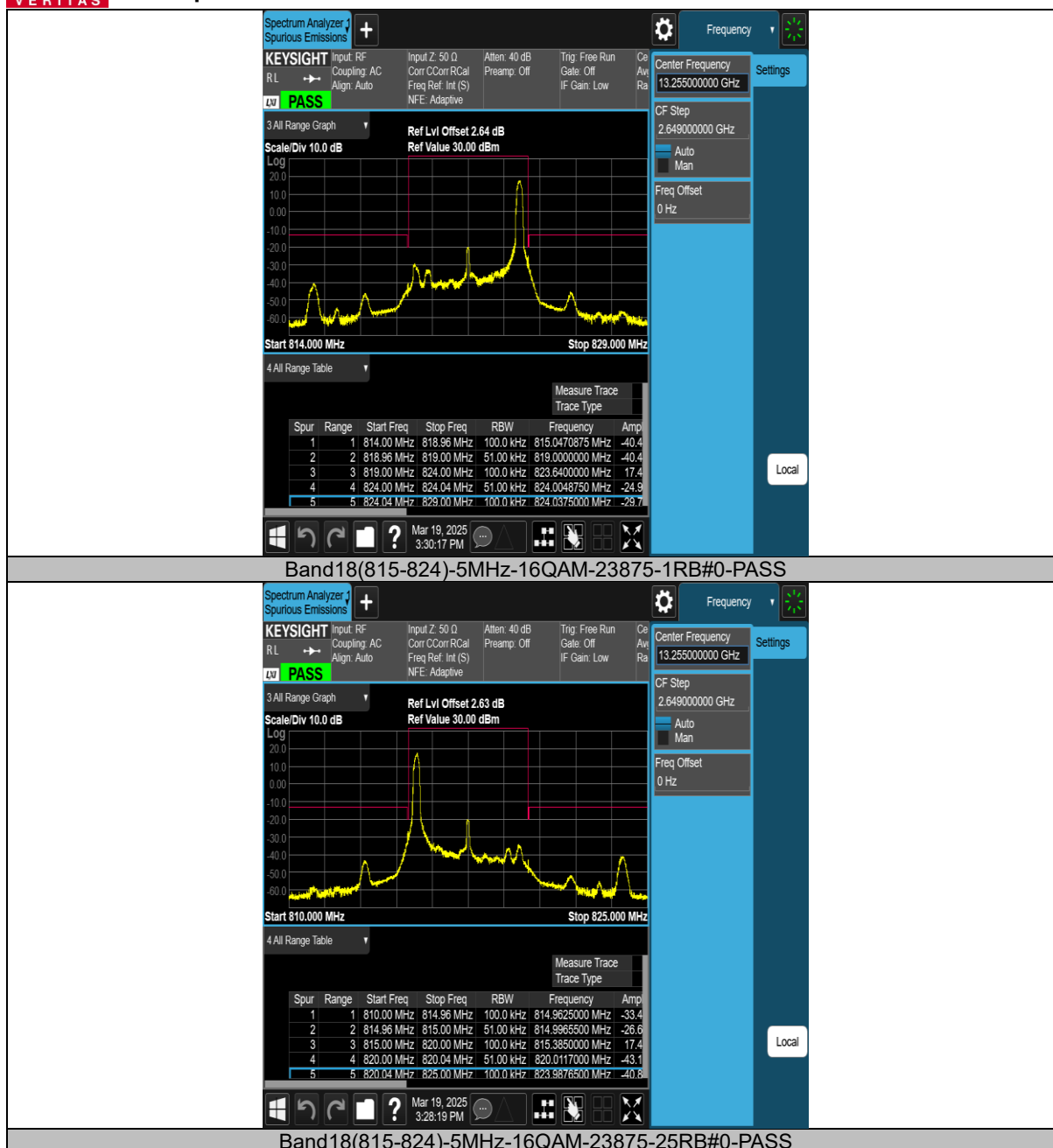


BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF05



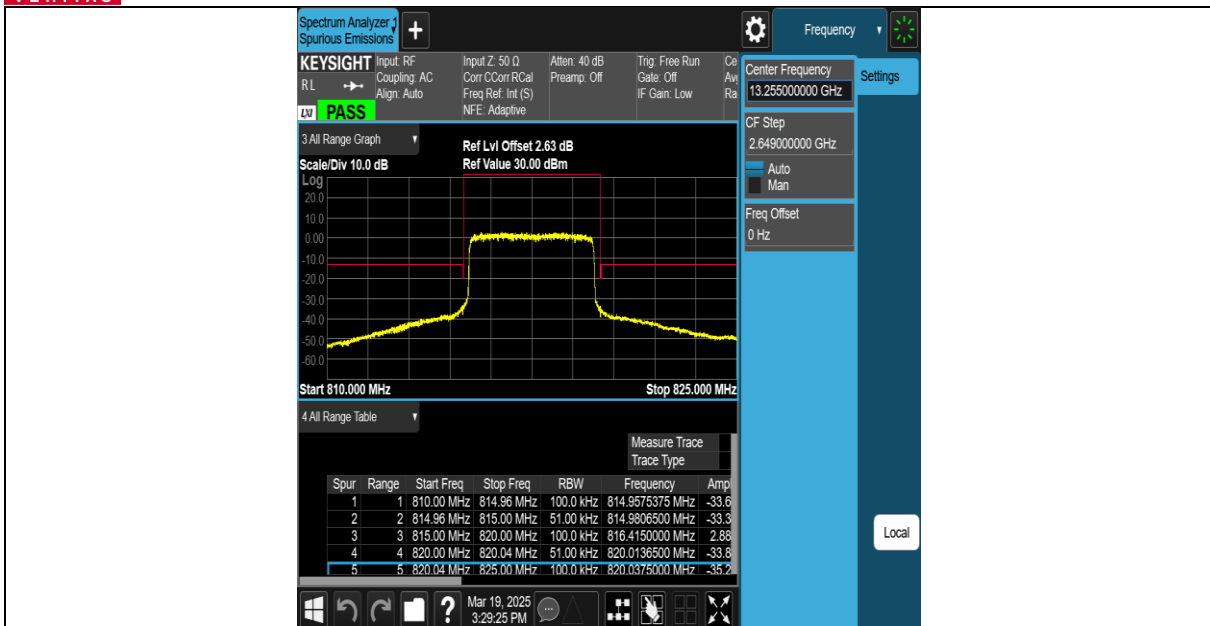


BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF05

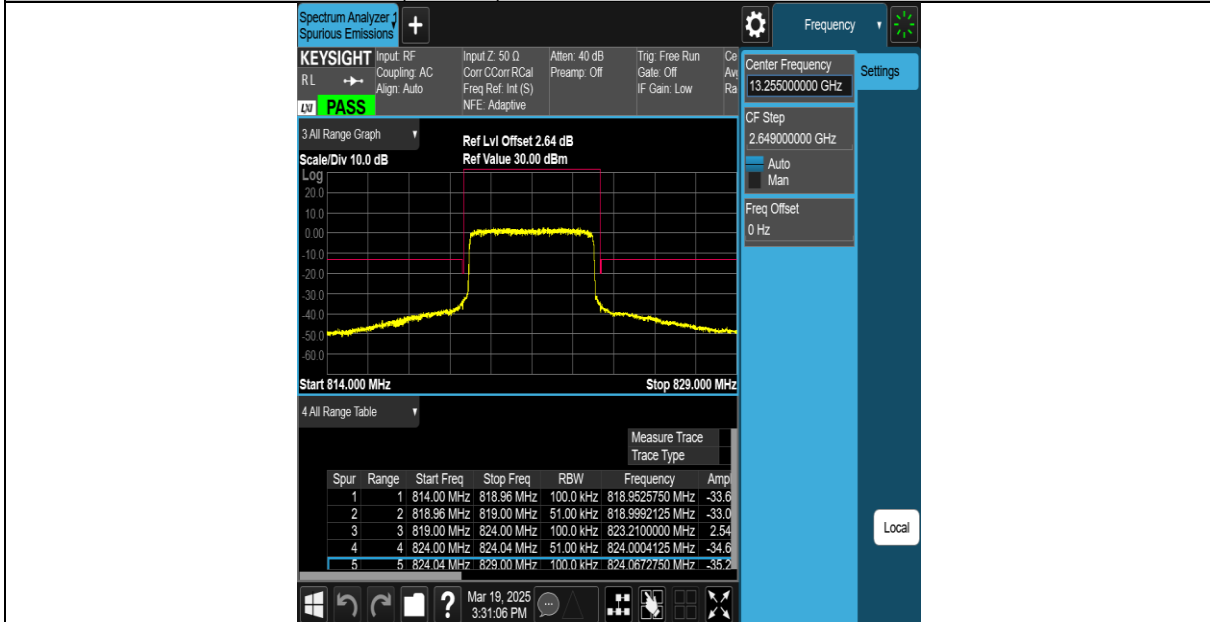




BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF05



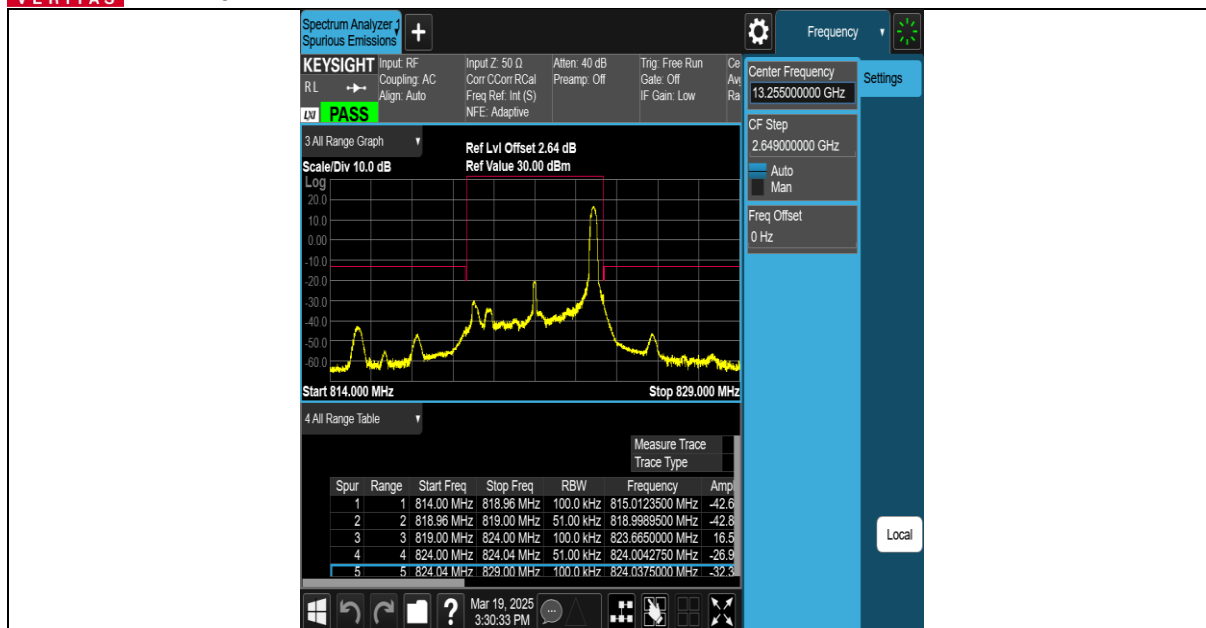
Band18(815-824)-5MHz-16QAM-23915-25RB#0-PASS



Band18(815-824)-5MHz-16QAM-23915-1RB#24-PASS



BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF05



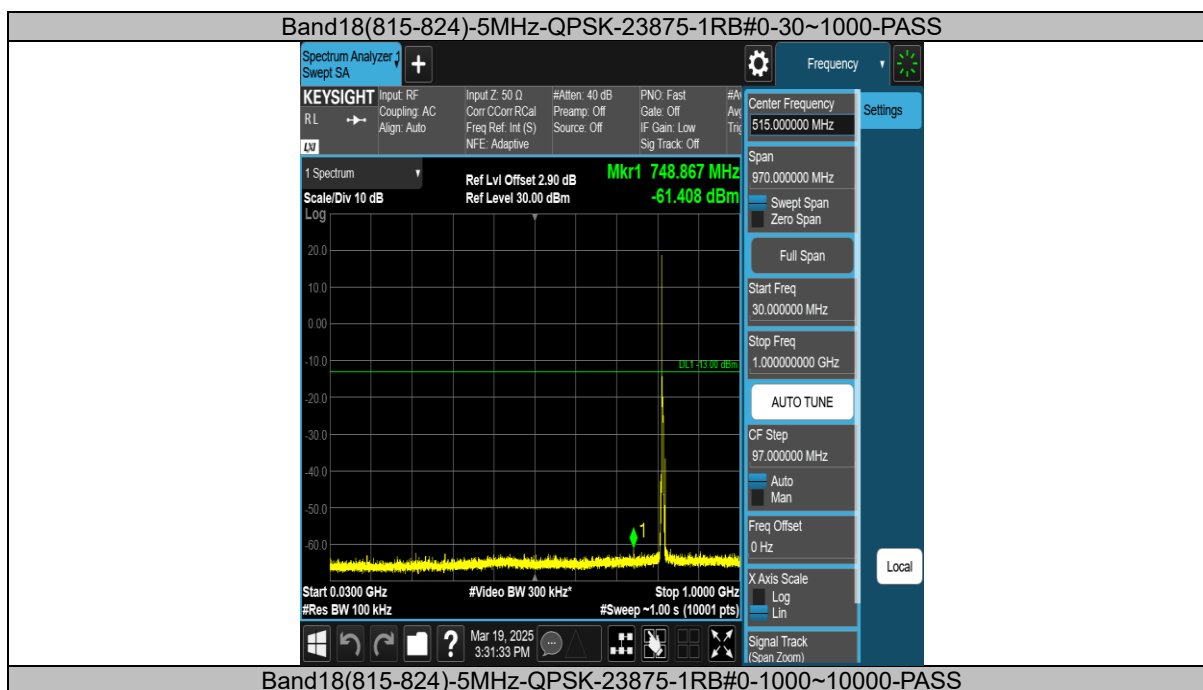


Appendix : Conducted Spurious Emission

Test Result

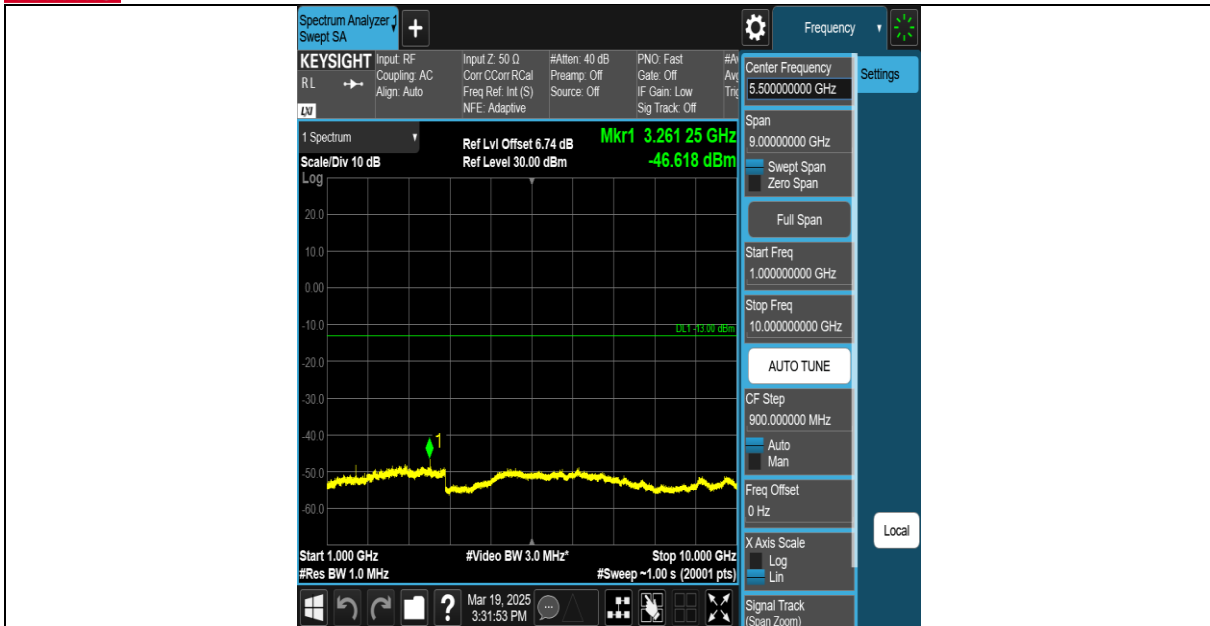
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band18(815-824)	5MHz	QPSK	23875	1RB#0	30~1000	-61.41	PASS
Band18(815-824)	5MHz	QPSK	23875	1RB#0	1000~10000	-46.62	PASS
Band18(815-824)	5MHz	QPSK	23895	1RB#0	30~1000	-61.19	PASS
Band18(815-824)	5MHz	QPSK	23895	1RB#0	1000~10000	-47.24	PASS
Band18(815-824)	5MHz	QPSK	23915	1RB#0	30~1000	-61.7	PASS
Band18(815-824)	5MHz	QPSK	23915	1RB#0	1000~10000	-46.66	PASS

Test Graphs

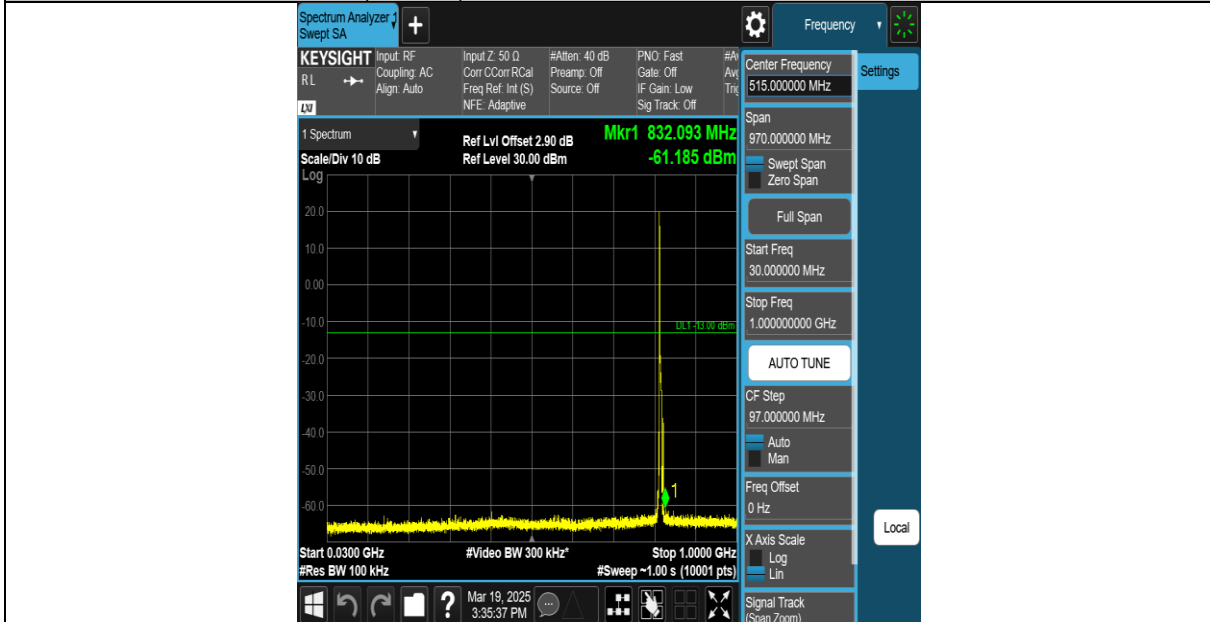




BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF05



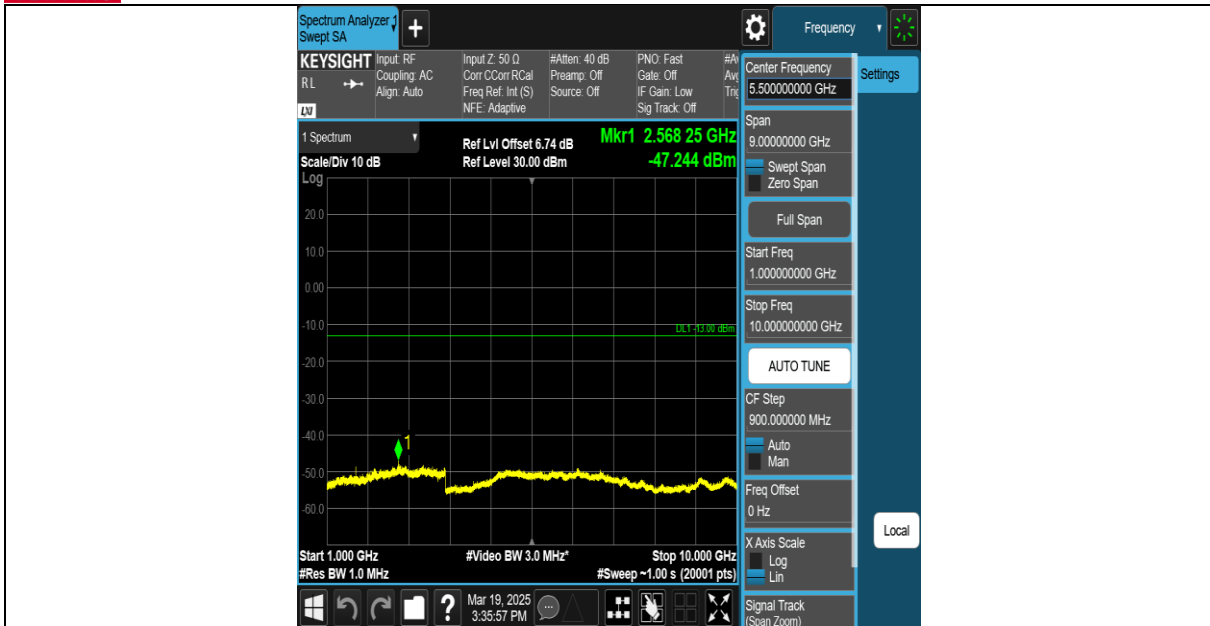
Band18(815-824)-5MHz-QPSK-23895-1RB#0-30~1000-PASS



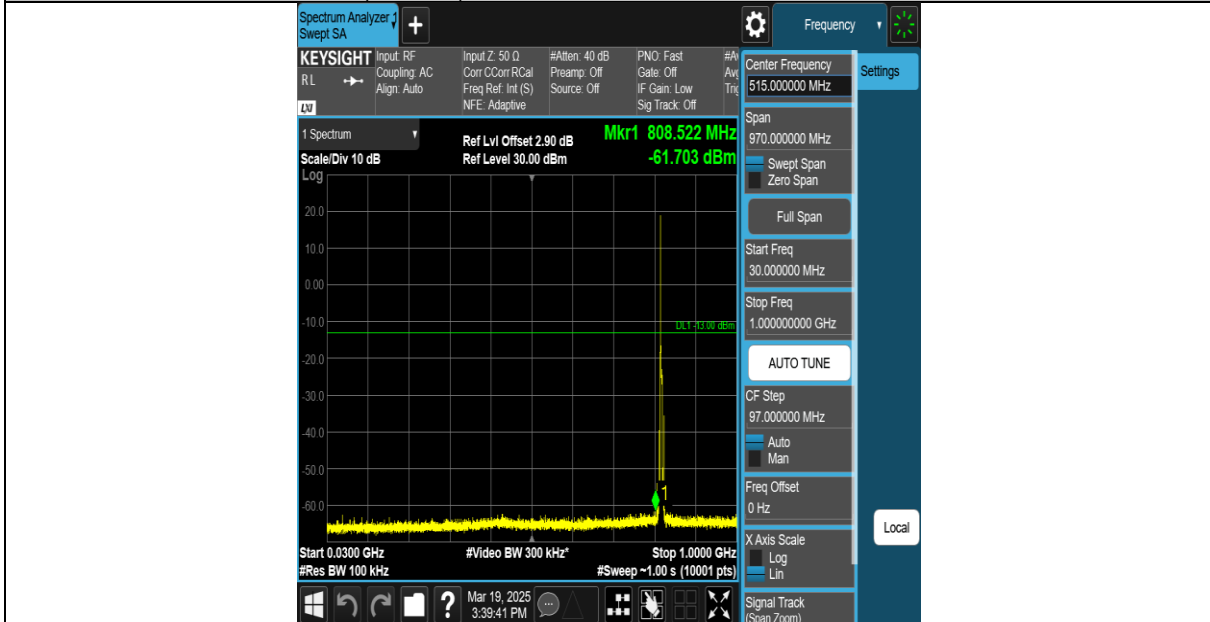
Band18(815-824)-5MHz-QPSK-23895-1RB#0-1000~10000-PASS



BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF05



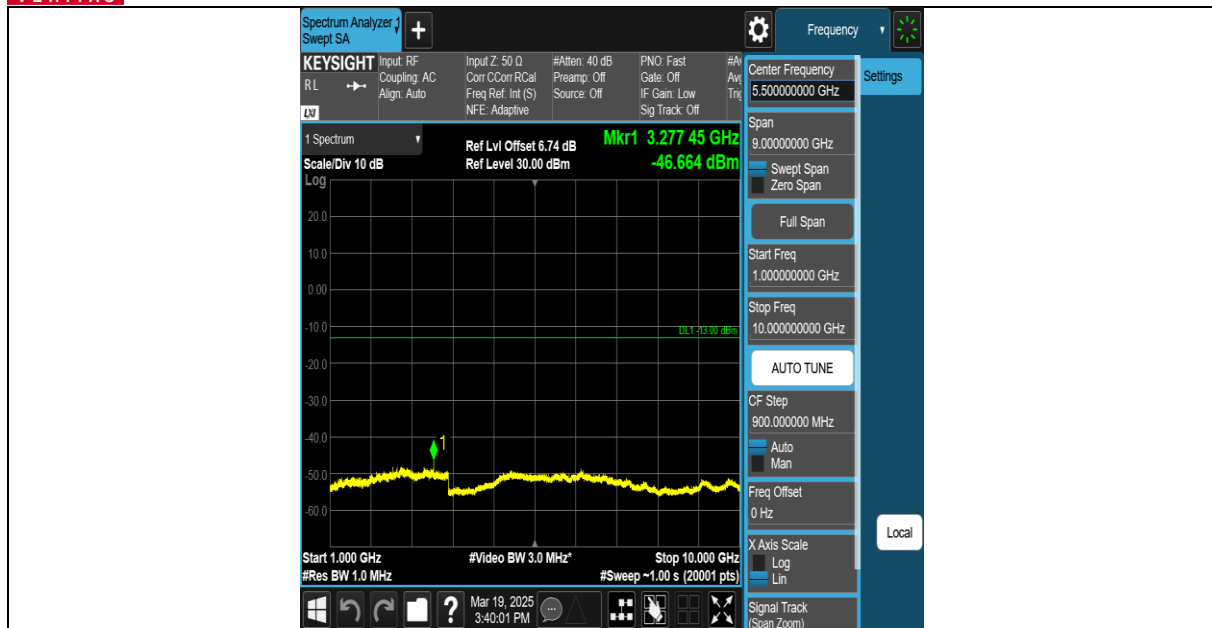
Band18(815-824)-5MHz-QPSK-23915-1RB#0-30~1000-PASS



Band18(815-824)-5MHz-QPSK-23915-1RB#0-1000~10000-PASS



BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF05





Appendix : Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band18 (815-824)	5MHz	QPSK	23875	25RB#0	VN	NT	-2.10	-0.002569	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23875	25RB#0	VL	NT	-2.85	-0.003486	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23875	25RB#0	VH	NT	-3.91	-0.004783	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23895	25RB#0	VN	NT	1.95	0.002379	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23895	25RB#0	VL	NT	-3.16	-0.003856	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23895	25RB#0	VH	NT	-3.06	-0.003734	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23915	25RB#0	VN	NT	-4.01	-0.004881	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23915	25RB#0	VL	NT	-3.28	-0.003993	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23915	25RB#0	VH	NT	-3.09	-0.003761	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23875	25RB#0	VN	NT	-8.31	-0.010165	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23875	25RB#0	VL	NT	-8.35	-0.010214	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23875	25RB#0	VH	NT	-6.95	-0.008502	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23895	25RB#0	VN	NT	-7.50	-0.009152	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23895	25RB#0	VL	NT	-7.74	-0.009445	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23895	25RB#0	VH	NT	-8.84	-0.010787	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23915	25RB#0	VN	NT	-7.57	-0.009215	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23915	25RB#0	VL	NT	-7.45	-0.009069	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23915	25RB#0	VH	NT	-6.28	-0.007645	±2.5	PASS



Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band18 (815-824)	5MHz	QPSK	23875	25RB#0	NV	-30	-3.02	-0.003694	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23875	25RB#0	NV	-20	-4.51	-0.005517	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23875	25RB#0	NV	-10	-7.75	-0.009480	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23875	25RB#0	NV	0	-7.54	-0.009223	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23875	25RB#0	NV	10	-7.55	-0.009235	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23875	25RB#0	NV	20	-7.10	-0.008685	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23875	25RB#0	NV	30	-7.32	-0.008954	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23875	25RB#0	NV	40	-5.97	-0.007303	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23875	25RB#0	NV	50	-4.38	-0.005358	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23895	25RB#0	NV	-30	-4.98	-0.006077	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23895	25RB#0	NV	-20	-7.15	-0.008725	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23895	25RB#0	NV	-10	-6.35	-0.007749	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23895	25RB#0	NV	0	-6.42	-0.007834	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23895	25RB#0	NV	10	-6.82	-0.008322	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23895	25RB#0	NV	20	-8.44	-0.010299	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23895	25RB#0	NV	30	-7.01	-0.008554	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23895	25RB#0	NV	40	-8.28	-0.010104	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23895	25RB#0	NV	50	-7.71	-0.009408	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23915	25RB#0	NV	-30	-4.51	-0.005490	±2.5	PASS


BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF05

Band18 (815-824)	5MHz	QPSK	23915	25RB#0	NV	-20	-5.64	-0.006865	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23915	25RB#0	NV	-10	-5.42	-0.006598	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23915	25RB#0	NV	0	-7.62	-0.009276	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23915	25RB#0	NV	10	-6.45	-0.007851	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23915	25RB#0	NV	20	-6.57	-0.007998	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23915	25RB#0	NV	30	-6.32	-0.007693	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23915	25RB#0	NV	40	-8.30	-0.010103	±2.5	PASS
Band18 (815-824)	5MHz	QPSK	23915	25RB#0	NV	50	-7.22	-0.008789	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23875	25RB#0	NV	-30	-6.48	-0.007927	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23875	25RB#0	NV	-20	-8.11	-0.009920	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23875	25RB#0	NV	-10	-7.54	-0.009223	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23875	25RB#0	NV	0	-7.00	-0.008563	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23875	25RB#0	NV	10	-4.76	-0.005823	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23875	25RB#0	NV	20	-4.02	-0.004917	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23875	25RB#0	NV	30	-5.58	-0.006826	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23875	25RB#0	NV	40	-7.98	-0.009761	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23875	25RB#0	NV	50	-7.42	-0.009076	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23895	25RB#0	NV	-30	-7.58	-0.009250	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23895	25RB#0	NV	-20	-5.72	-0.006980	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23895	25RB#0	NV	-10	-4.33	-0.005284	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23895	25RB#0	NV	0	-6.15	-0.007505	±2.5	PASS
Band18	5MHz	16QAM	23895	25RB#0	NV	10	-5.15	-0.006284	±2.5	PASS

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368 1008



(815-824)										
Band18 (815-824)	5MHz	16QAM	23895	25RB#0	NV	20	-4.73	-0.005772	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23895	25RB#0	NV	30	-2.62	-0.003197	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23895	25RB#0	NV	40	-2.36	-0.002880	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23895	25RB#0	NV	50	-2.45	-0.002990	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23915	25RB#0	NV	-30	-8.70	-0.010590	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23915	25RB#0	NV	-20	-7.41	-0.009020	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23915	25RB#0	NV	-10	-4.31	-0.005247	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23915	25RB#0	NV	0	-3.49	-0.004248	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23915	25RB#0	NV	10	-2.86	-0.003481	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23915	25RB#0	NV	20	-5.64	-0.006865	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23915	25RB#0	NV	30	-2.79	-0.003396	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23915	25RB#0	NV	40	-2.72	-0.003311	±2.5	PASS
Band18 (815-824)	5MHz	16QAM	23915	25RB#0	NV	50	-2.89	-0.003518	±2.5	PASS

---END---