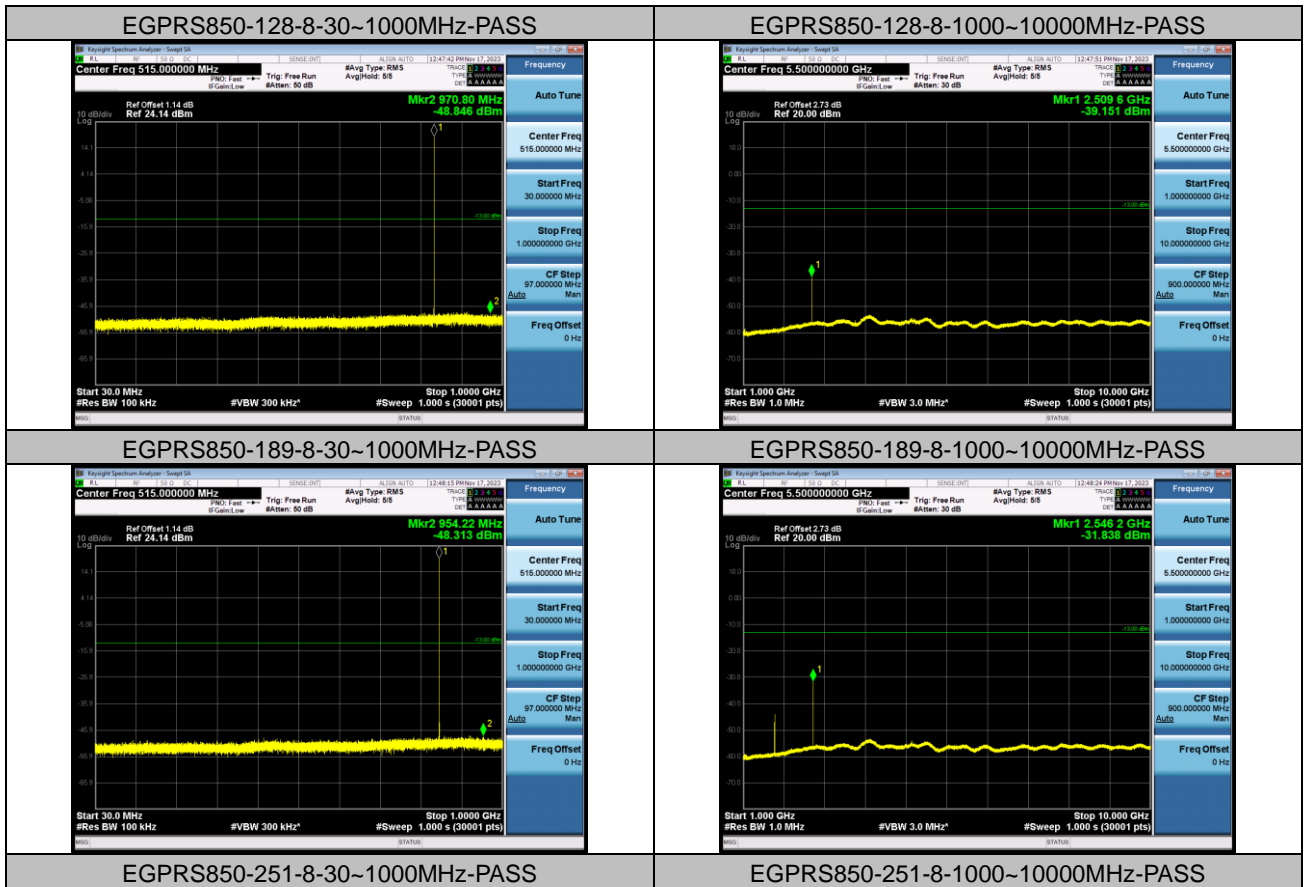




BUREAU VERITAS

Test Report No.: W7L-P23100008RF04



Huarui 7Layers High Technology (Suzhou) Co., Ltd

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FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	NT	7.85	0.009524	±2.5	PASS
GSM850	128	VL	NT	7.07	0.008578	±2.5	PASS
GSM850	128	VH	NT	2.74	0.003324	±2.5	PASS
GSM850	189	VN	NT	9.30	0.011119	±2.5	PASS
GSM850	189	VL	NT	11.11	0.013283	±2.5	PASS
GSM850	189	VH	NT	6.72	0.008034	±2.5	PASS
GSM850	251	VN	NT	9.27	0.010921	±2.5	PASS
GSM850	251	VL	NT	10.94	0.012889	±2.5	PASS
GSM850	251	VH	NT	8.36	0.009849	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	1.16	0.001407	±2.5	PASS
GSM850	128	NV	-20	5.81	0.007049	±2.5	PASS
GSM850	128	NV	-10	6.88	0.008347	±2.5	PASS
GSM850	128	NV	0	8.17	0.009913	±2.5	PASS
GSM850	128	NV	10	0.58	0.000704	±2.5	PASS
GSM850	128	NV	20	1.00	0.001213	±2.5	PASS
GSM850	128	NV	30	6.97	0.008457	±2.5	PASS
GSM850	128	NV	40	9.85	0.011951	±2.5	PASS
GSM850	128	NV	50	2.84	0.003446	±2.5	PASS
GSM850	189	NV	-30	7.75	0.009266	±2.5	PASS
GSM850	189	NV	-20	7.91	0.009457	±2.5	PASS
GSM850	189	NV	-10	9.81	0.011729	±2.5	PASS
GSM850	189	NV	0	0.65	0.000777	±2.5	PASS
GSM850	189	NV	10	7.01	0.008381	±2.5	PASS
GSM850	189	NV	20	14.79	0.017683	±2.5	PASS
GSM850	189	NV	30	6.07	0.007257	±2.5	PASS
GSM850	189	NV	40	7.49	0.008955	±2.5	PASS
GSM850	189	NV	50	0.68	0.000813	±2.5	PASS
GSM850	251	NV	-30	9.91	0.011675	±2.5	PASS
GSM850	251	NV	-20	7.52	0.008860	±2.5	PASS
GSM850	251	NV	-10	8.94	0.010533	±2.5	PASS
GSM850	251	NV	0	-0.32	-0.000377	±2.5	PASS
GSM850	251	NV	10	10.69	0.012594	±2.5	PASS
GSM850	251	NV	20	16.01	0.018862	±2.5	PASS
GSM850	251	NV	30	8.01	0.009437	±2.5	PASS
GSM850	251	NV	40	2.20	0.002592	±2.5	PASS
GSM850	251	NV	50	10.17	0.011982	±2.5	PASS



WCDMA-B5

PEAK-TO-AVERAGE RATIO

Test Result

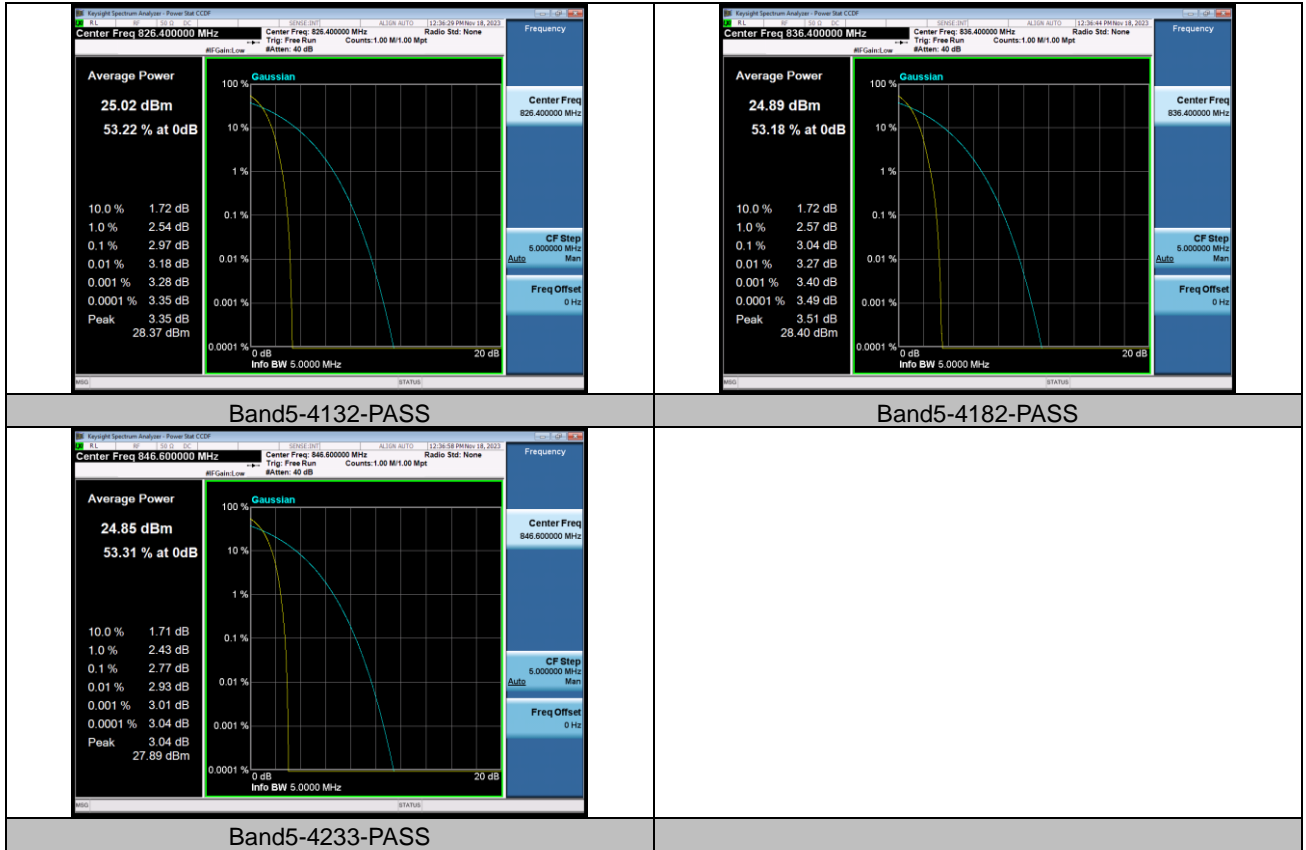
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	2.97	13	PASS
Band5	4182	3.04	13	PASS
Band5	4233	2.77	13	PASS



BUREAU VERITAS

Test Report No.: W7L-P23100008RF04

Test Graphs



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26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

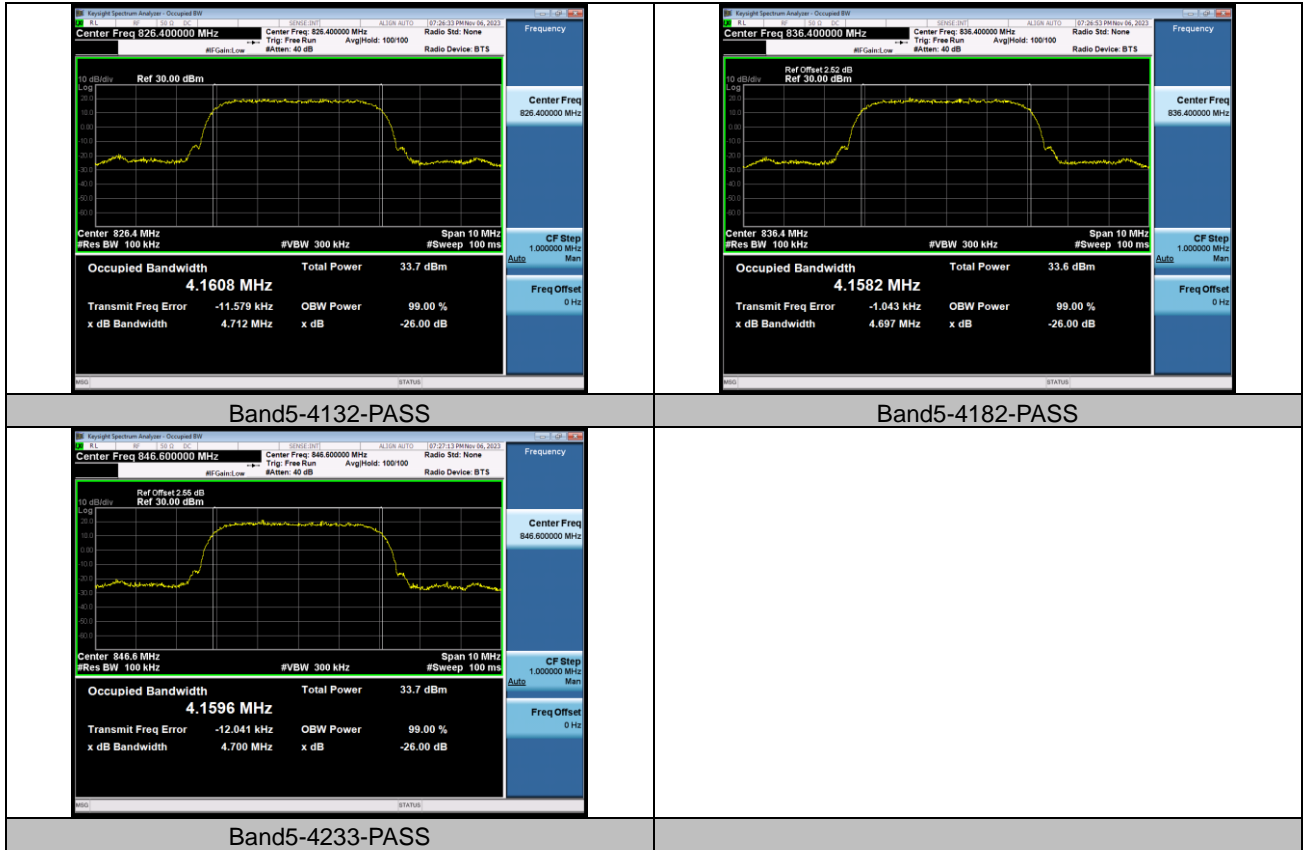
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band5	4132	4.1608	4.712	---	PASS
Band5	4182	4.1582	4.697	---	PASS
Band5	4233	4.1596	4.700	---	PASS



BUREAU VERITAS

Test Report No.: W7L-P23100008RF04

Test Graphs





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VERITAS

Test Report No.: W7L-P23100008RF04

BAND EDGE

Test Result

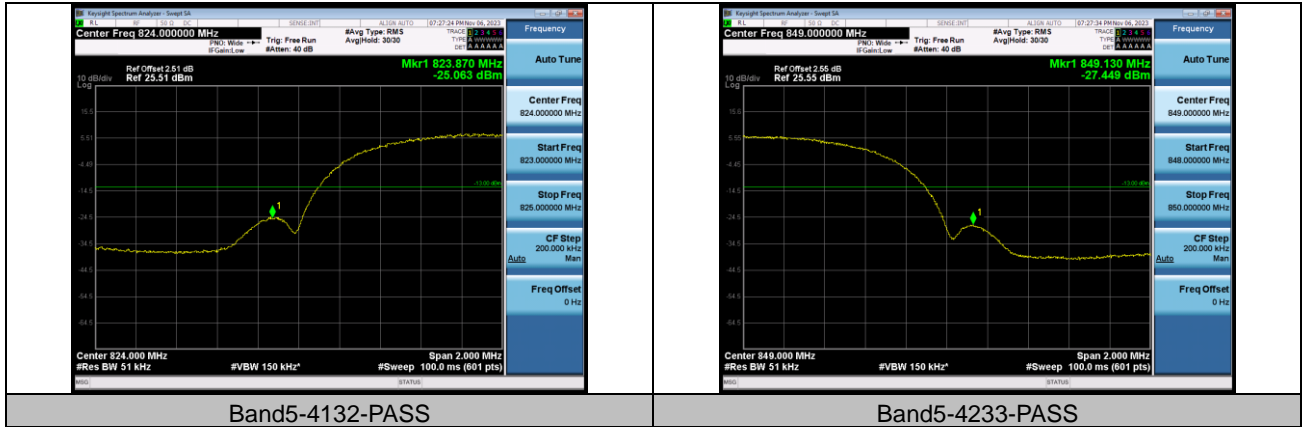
Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	823.87	-24.24	-13	PASS
Band5	4233	849.13	-27.31	-13	PASS



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VERITAS

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Test Graphs



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CONDUCTED SPURIOUS EMISSION

Test Result

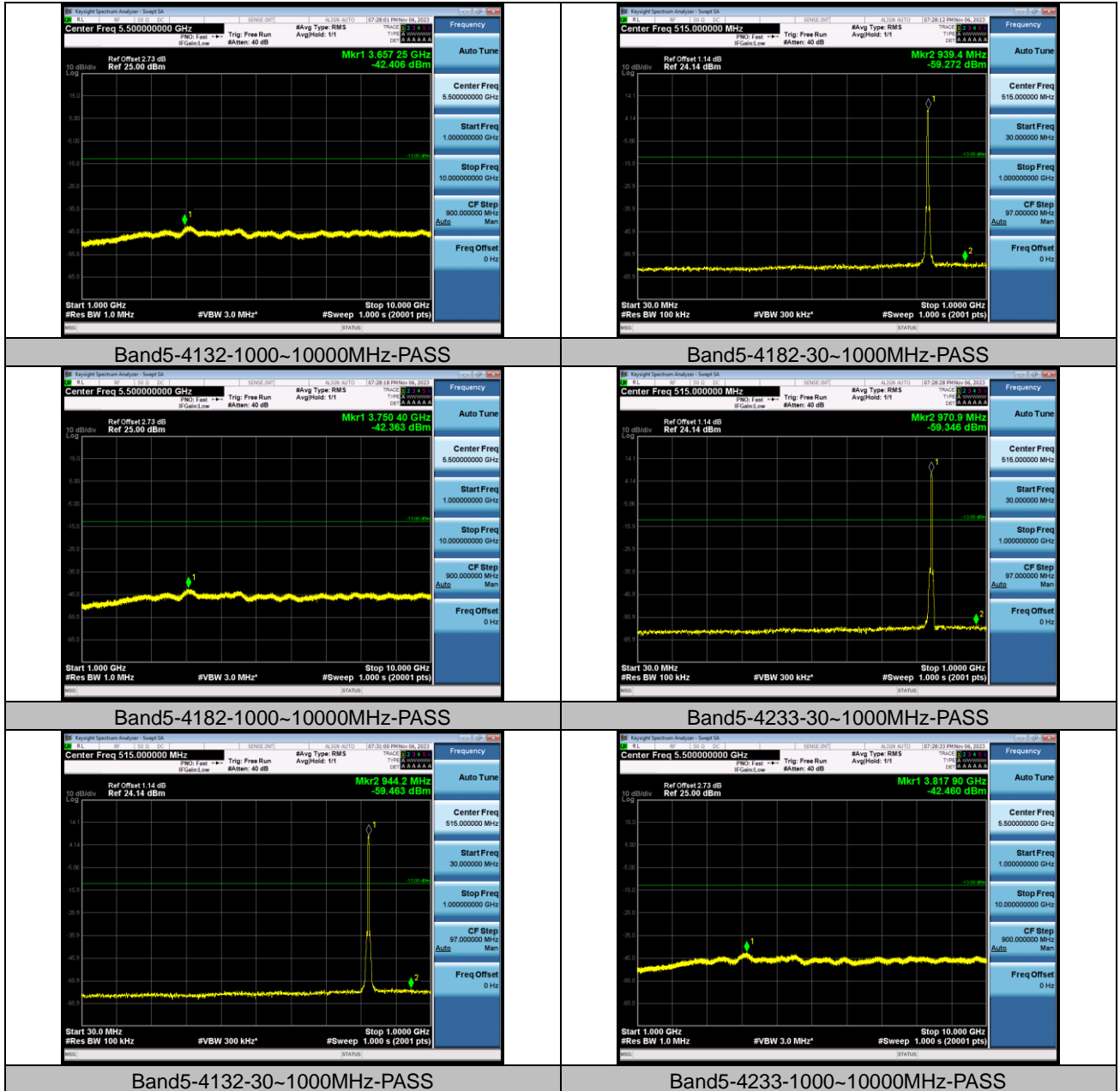
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	1000~10000MHz	3657.25	-42.41	-13	PASS
Band5	4182	30~1000MHz	939.38	-59.27	-13	PASS
Band5	4182	1000~10000MHz	3750.4	-42.36	-13	PASS
Band5	4233	30~1000MHz	970.9	-59.35	-13	PASS
Band5	4132	30~1000MHz	944.23	-59.46	-13	PASS
Band5	4233	1000~10000MHz	3817.9	-42.46	-13	PASS



BUREAU VERITAS

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Test Graphs



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FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	VN	NT	-13.58	-0.016433	±2.5	PASS
Band5	4132	VL	NT	-13.67	-0.016542	±2.5	PASS
Band5	4132	VH	NT	-13.05	-0.015791	±2.5	PASS
Band5	4182	VN	NT	-9.48	-0.011334	±2.5	PASS
Band5	4182	VL	NT	-11.77	-0.014072	±2.5	PASS
Band5	4182	VH	NT	-11.51	-0.013761	±2.5	PASS
Band5	4233	VN	NT	-6.76	-0.007985	±2.5	PASS
Band5	4233	VL	NT	-9.87	-0.011658	±2.5	PASS
Band5	4233	VH	NT	-7.58	-0.008953	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	NV	-30	-12.59	-0.015235	±2.5	PASS
Band5	4132	NV	-20	-11.54	-0.013964	±2.5	PASS
Band5	4132	NV	-10	-11.77	-0.014242	±2.5	PASS
Band5	4132	NV	0	-11.28	-0.013650	±2.5	PASS
Band5	4132	NV	10	-12.39	-0.014993	±2.5	PASS
Band5	4132	NV	20	-11.04	-0.013359	±2.5	PASS
Band5	4132	NV	30	-11.26	-0.013625	±2.5	PASS
Band5	4132	NV	40	-11.22	-0.013577	±2.5	PASS
Band5	4132	NV	50	-10.56	-0.012778	±2.5	PASS
Band5	4182	NV	-30	-8.89	-0.010629	±2.5	PASS
Band5	4182	NV	-20	-8.65	-0.010342	±2.5	PASS
Band5	4182	NV	-10	-5.11	-0.006110	±2.5	PASS
Band5	4182	NV	0	-10.17	-0.012159	±2.5	PASS
Band5	4182	NV	10	-11.27	-0.013474	±2.5	PASS
Band5	4182	NV	20	-9.61	-0.011490	±2.5	PASS
Band5	4182	NV	30	-10.95	-0.013092	±2.5	PASS
Band5	4182	NV	40	-8.88	-0.010617	±2.5	PASS
Band5	4182	NV	50	-8.28	-0.009900	±2.5	PASS
Band5	4233	NV	-30	-9.03	-0.010666	±2.5	PASS
Band5	4233	NV	-20	-6.30	-0.007442	±2.5	PASS
Band5	4233	NV	-10	-7.46	-0.008812	±2.5	PASS
Band5	4233	NV	0	-9.00	-0.010631	±2.5	PASS
Band5	4233	NV	10	-7.80	-0.009213	±2.5	PASS
Band5	4233	NV	20	-10.41	-0.012296	±2.5	PASS
Band5	4233	NV	30	-6.27	-0.007406	±2.5	PASS
Band5	4233	NV	40	-9.01	-0.010643	±2.5	PASS
Band5	4233	NV	50	-5.84	-0.006898	±2.5	PASS



LTE-B26

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

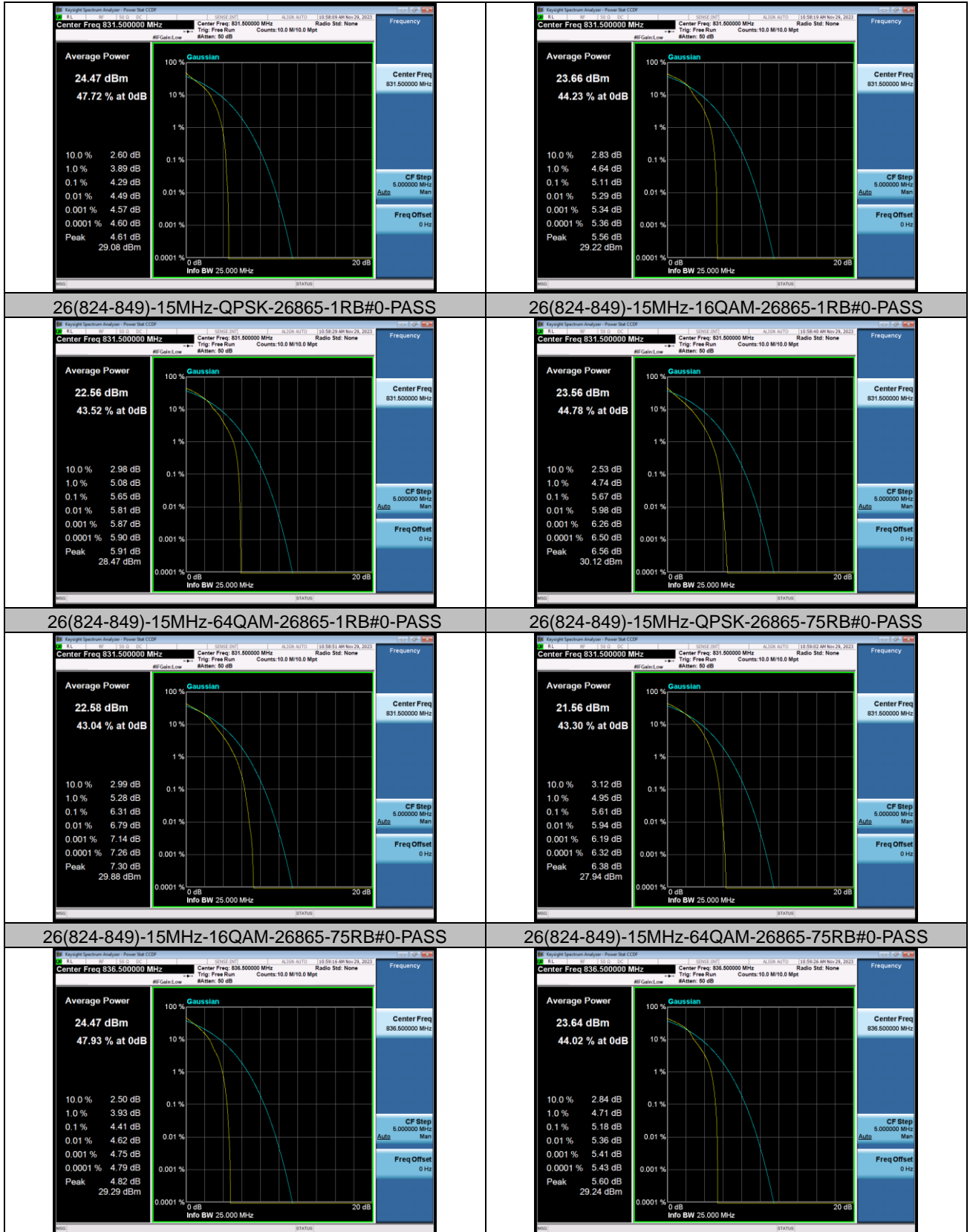
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
26(824-849)	15MHz	QPSK	26865	1RB#0	4.29	13	PASS
26(824-849)	15MHz	16QAM	26865	1RB#0	5.11	13	PASS
26(824-849)	15MHz	64QAM	26865	1RB#0	5.65	13	PASS
26(824-849)	15MHz	QPSK	26865	75RB#0	5.67	13	PASS
26(824-849)	15MHz	16QAM	26865	75RB#0	6.31	13	PASS
26(824-849)	15MHz	64QAM	26865	75RB#0	5.61	13	PASS
26(824-849)	15MHz	QPSK	26915	1RB#0	4.41	13	PASS
26(824-849)	15MHz	16QAM	26915	1RB#0	5.18	13	PASS
26(824-849)	15MHz	64QAM	26915	1RB#0	5.97	13	PASS
26(824-849)	15MHz	QPSK	26915	75RB#0	5.60	13	PASS
26(824-849)	15MHz	16QAM	26915	75RB#0	6.25	13	PASS
26(824-849)	15MHz	64QAM	26915	75RB#0	5.64	13	PASS
26(824-849)	15MHz	QPSK	26965	1RB#0	4.65	13	PASS
26(824-849)	15MHz	16QAM	26965	1RB#0	5.50	13	PASS
26(824-849)	15MHz	64QAM	26965	1RB#0	5.88	13	PASS
26(824-849)	15MHz	QPSK	26965	75RB#0	5.54	13	PASS
26(824-849)	15MHz	16QAM	26965	75RB#0	6.18	13	PASS
26(824-849)	15MHz	64QAM	26965	75RB#0	5.61	13	PASS



BUREAU VERITAS

Test Report No.: W7L-P23100008RF04

Test Graphs



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