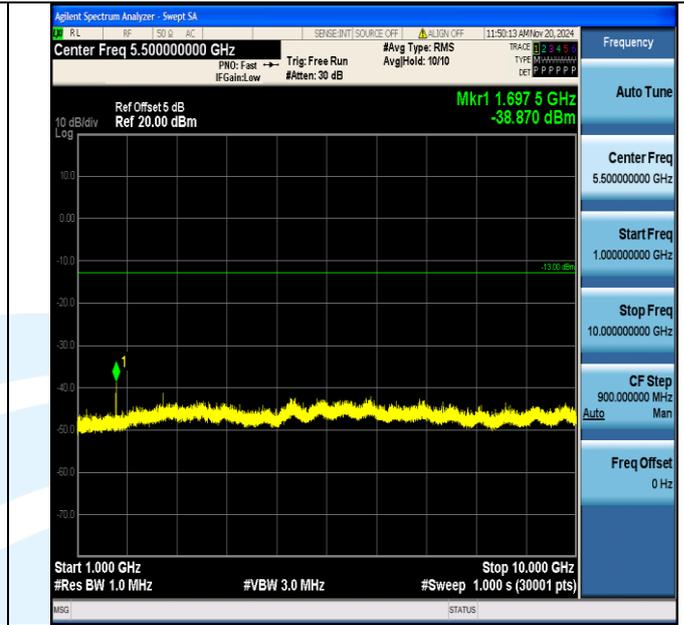
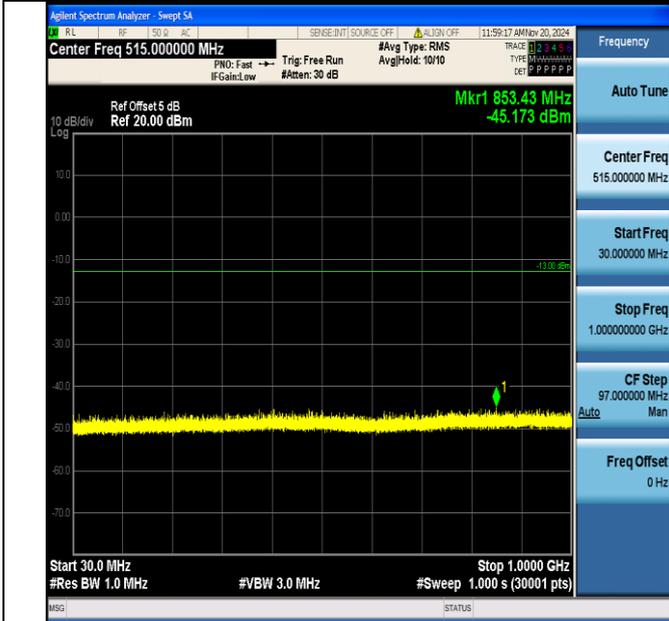


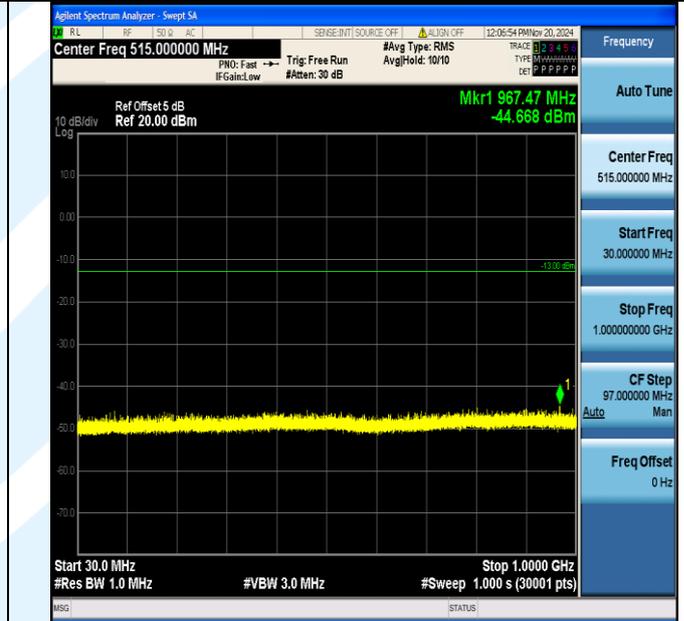
EGPRS850-251-8-30~1000MHz-PASS



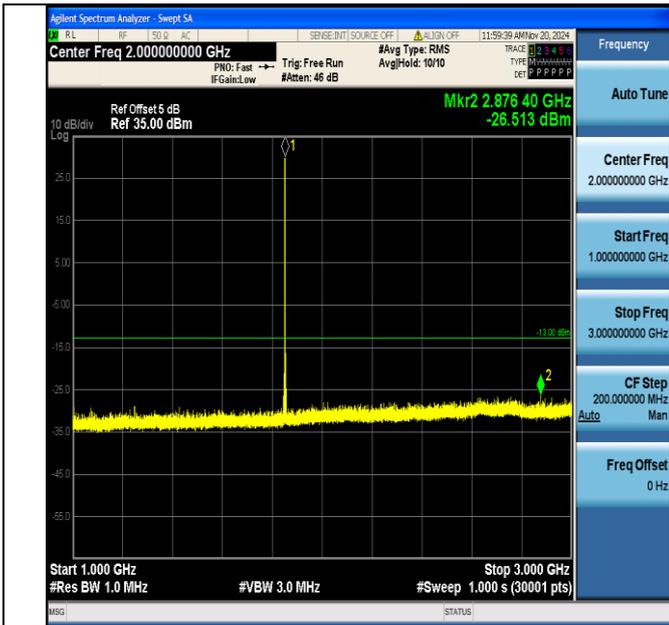
EGPRS850-251-8-1000~10000MHz-PASS



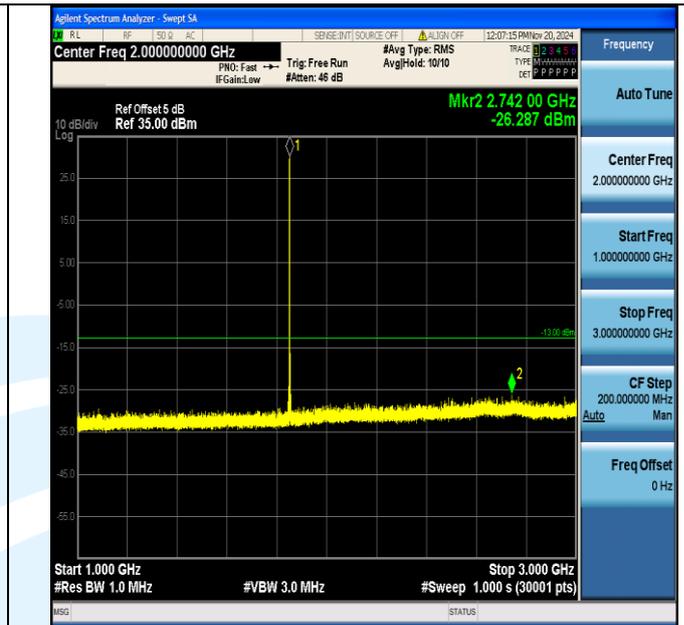
GSM1900-512-0-30~1000MHz-PASS



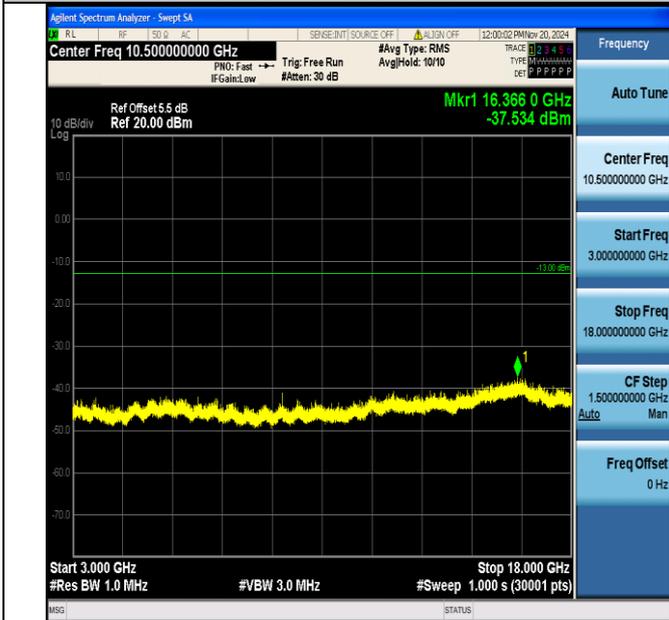
GPRS1900-512-0-30~1000MHz-PASS



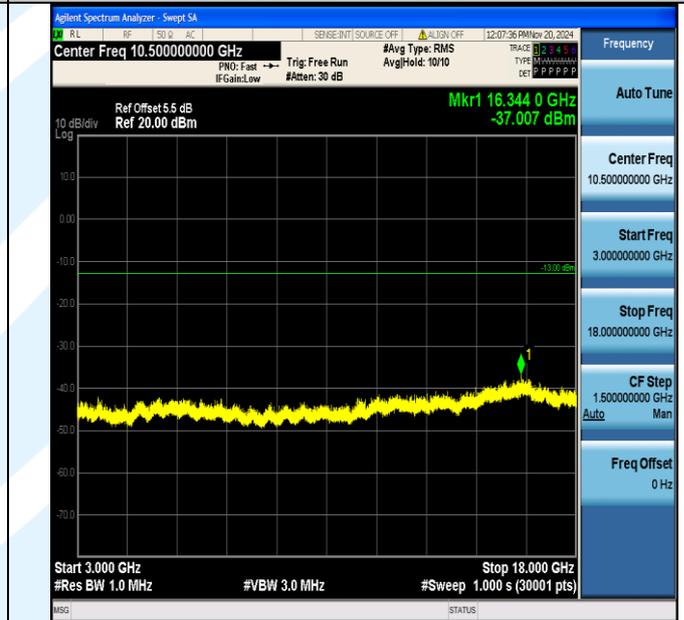
GSM1900-512-0-1000~3000MHz-PASS



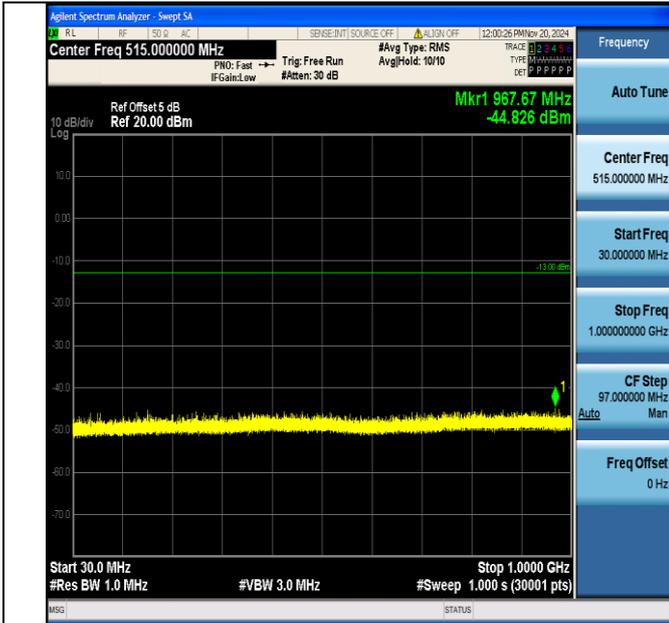
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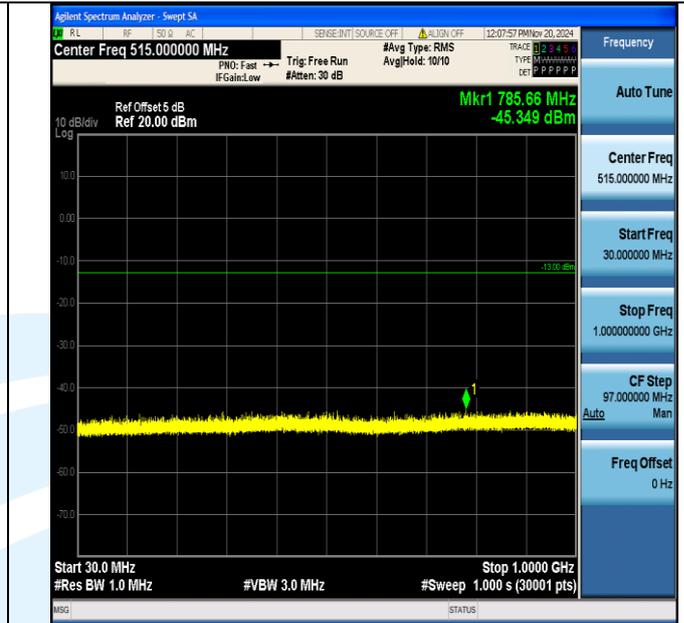
GSM1900-512-0-3000~18000MHz-PASS



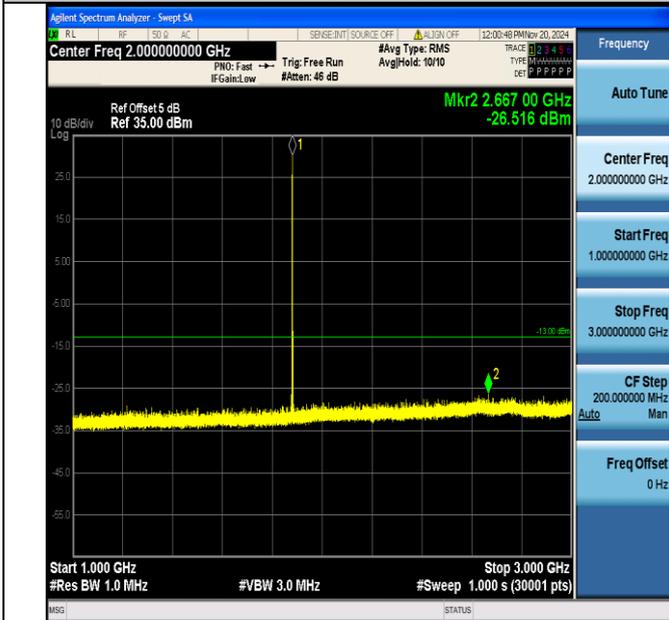
GPRS1900-512-0-3000~18000MHz-PASS



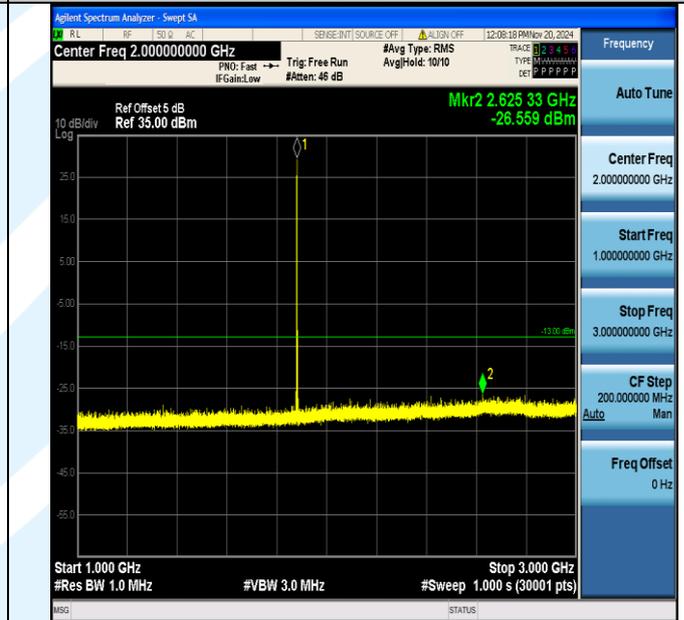
GSM1900-661-0-30~1000MHz-PASS



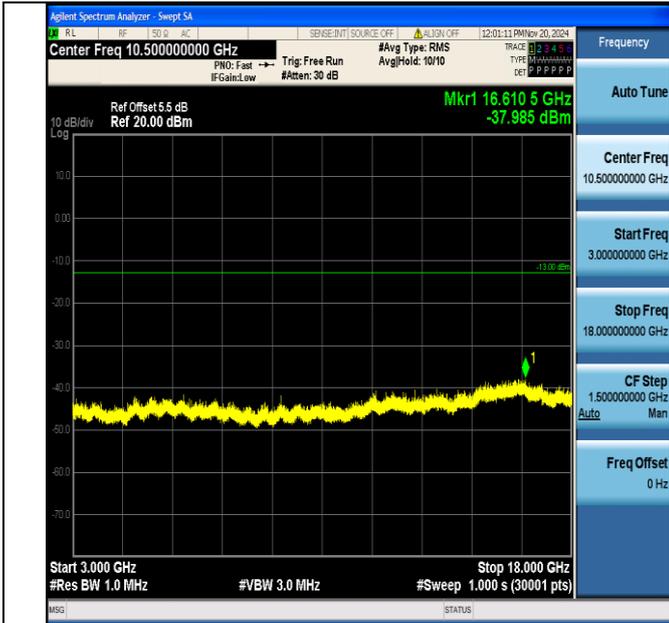
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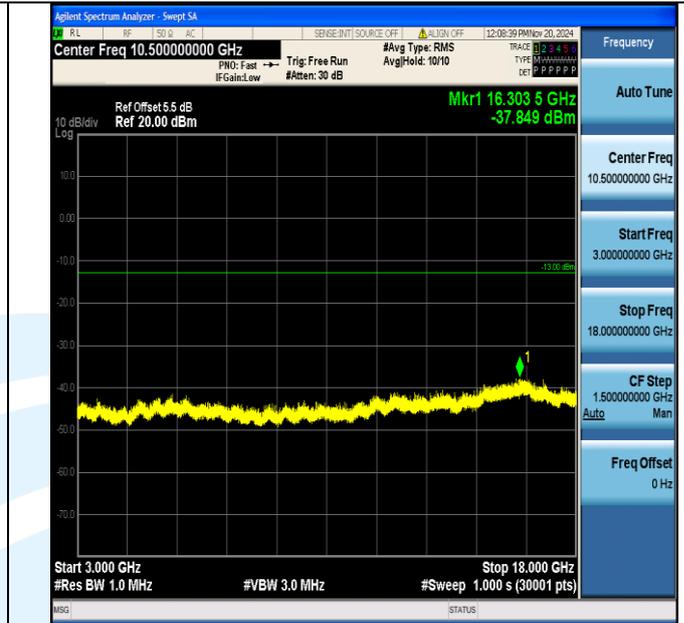
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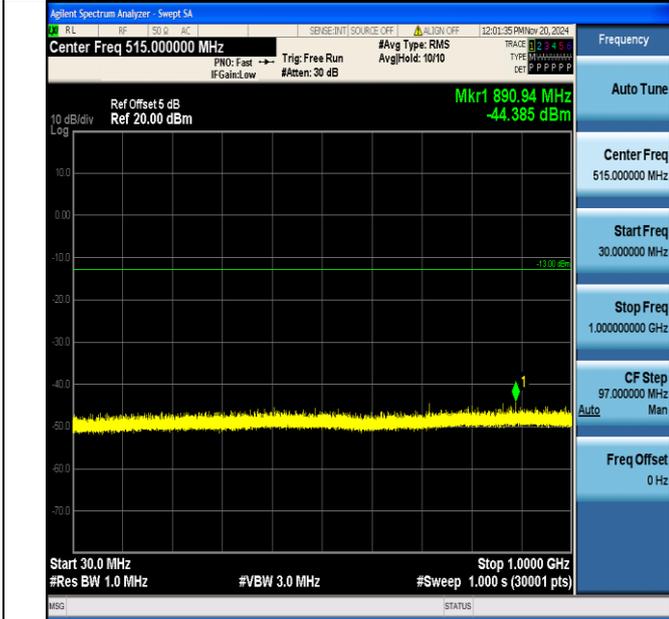
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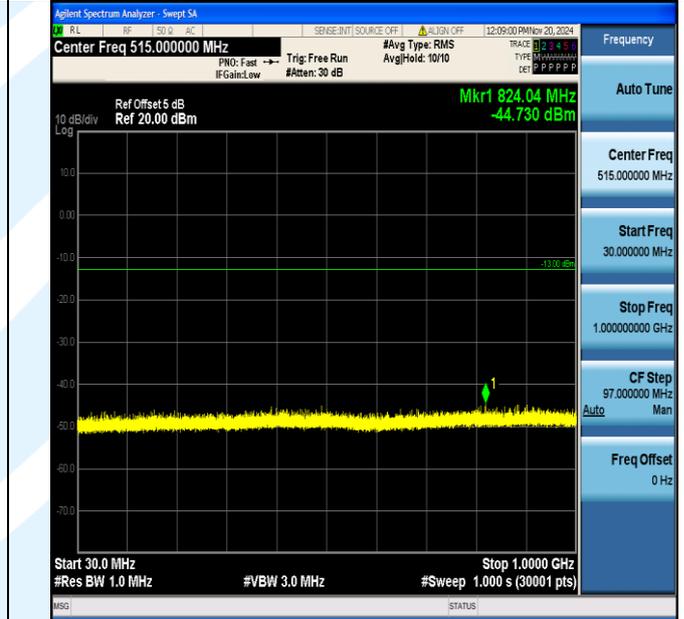
GSM1900-661-0-3000~18000MHz-PASS



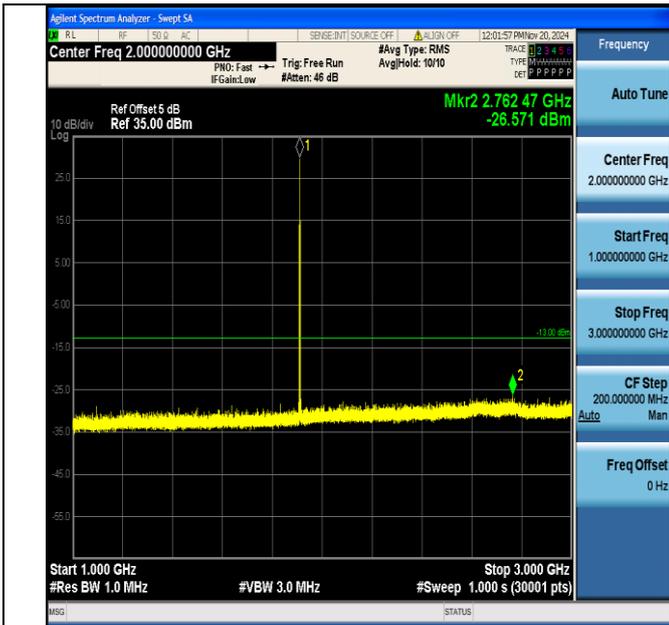
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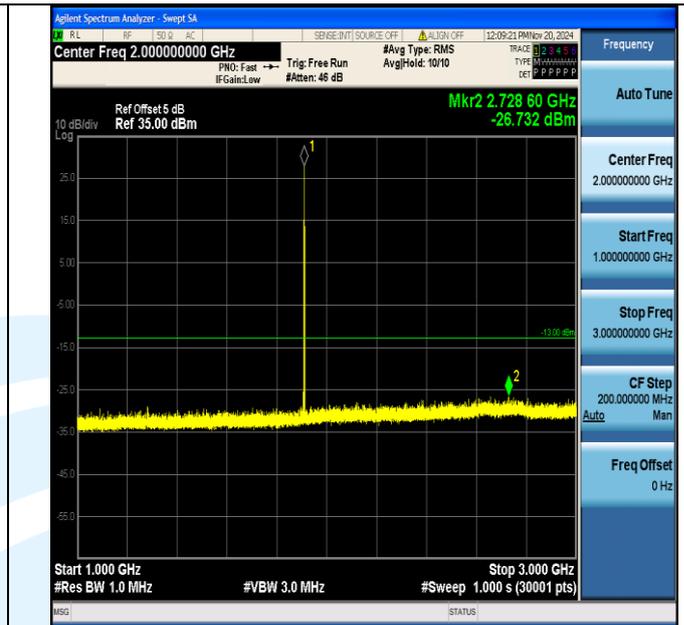
GSM1900-810-0-30~1000MHz-PASS



GPRS1900-810-0-30~1000MHz-PASS



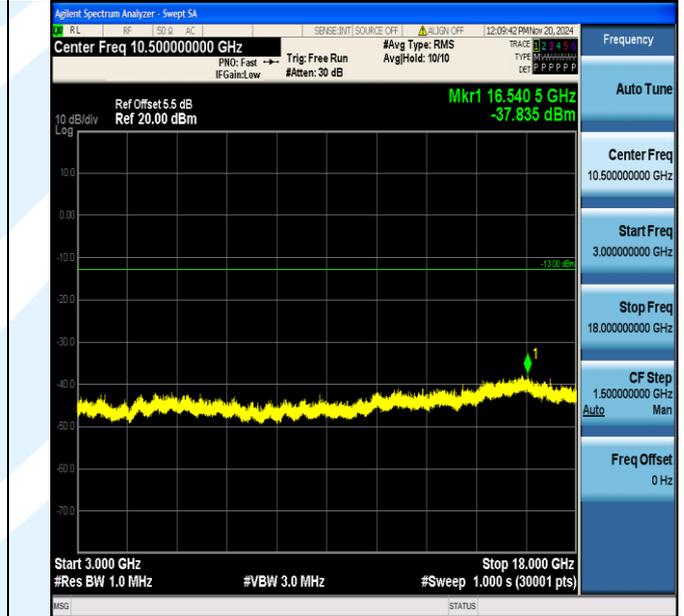
GSM1900-810-0-1000~3000MHz-PASS



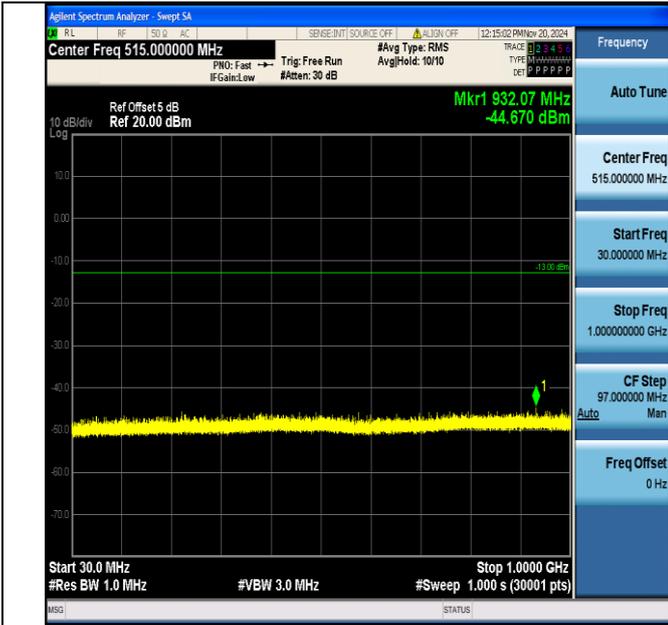
GPRS1900-810-0-1000~3000MHz-PASS



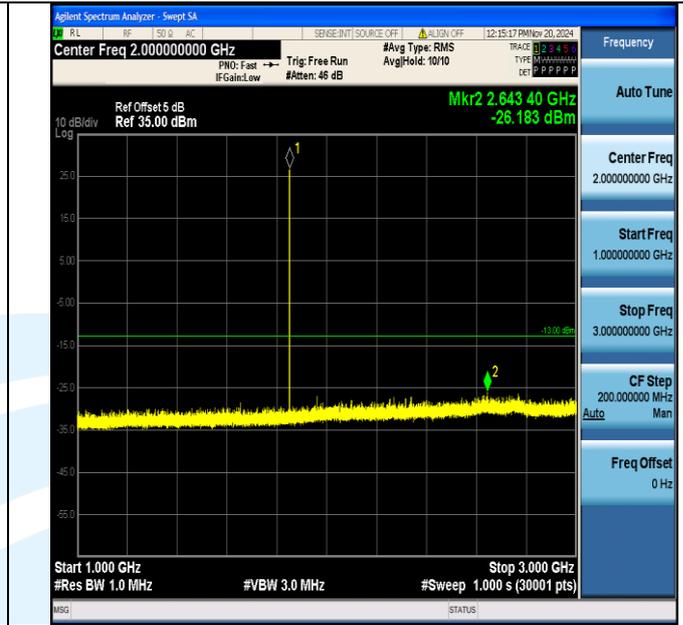
GSM1900-810-0-3000~18000MHz-PASS



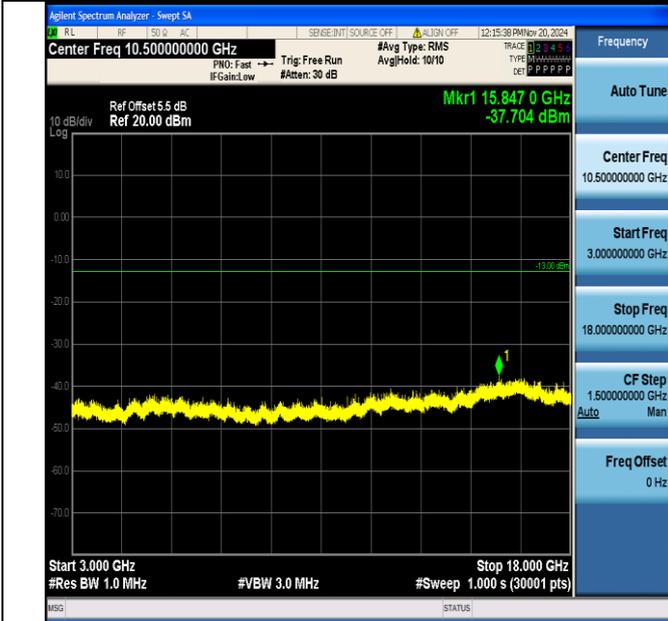
GPRS1900-810-0-3000~18000MHz-PASS



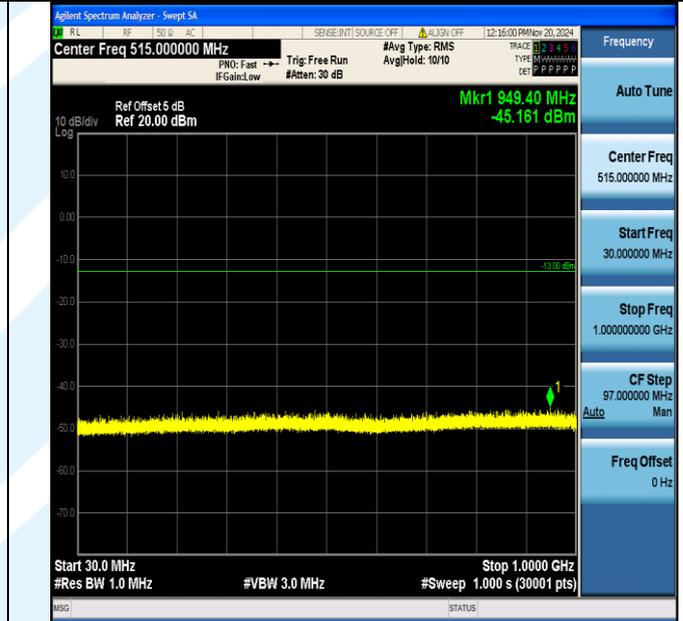
EGPRS1900-512-2-30~1000MHz-PASS



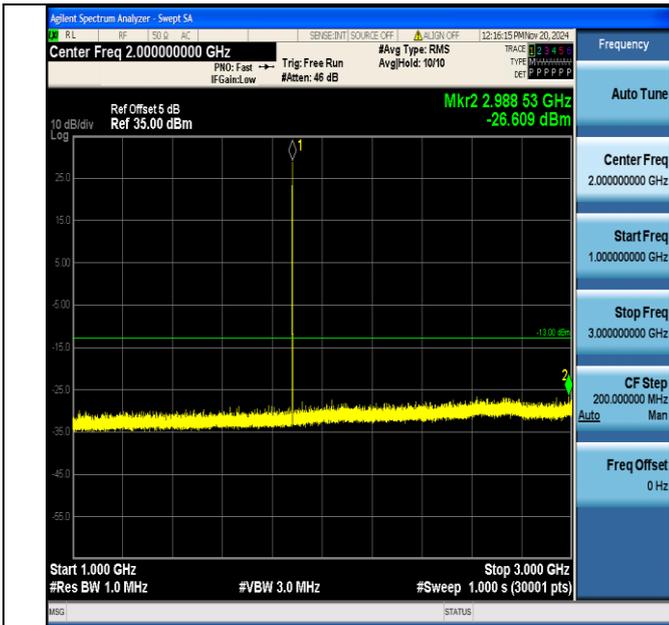
EGPRS1900-512-2-1000~3000MHz-PASS



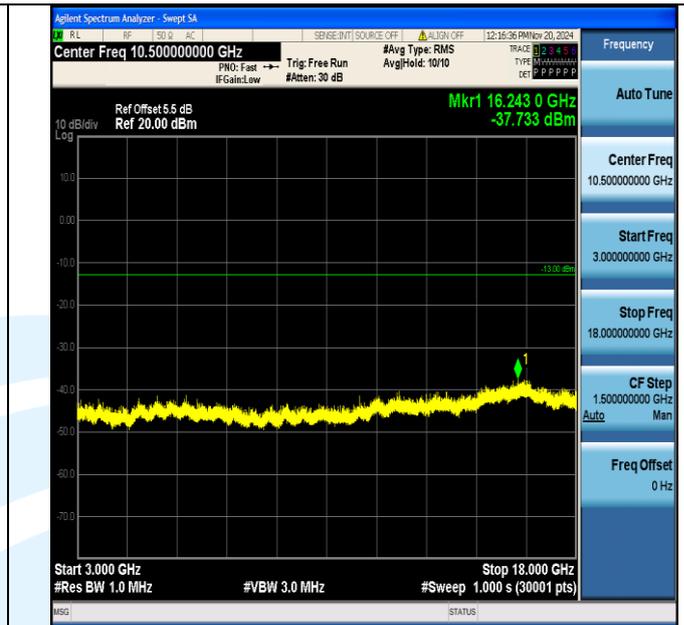
EGPRS1900-512-2-3000~18000MHz-PASS



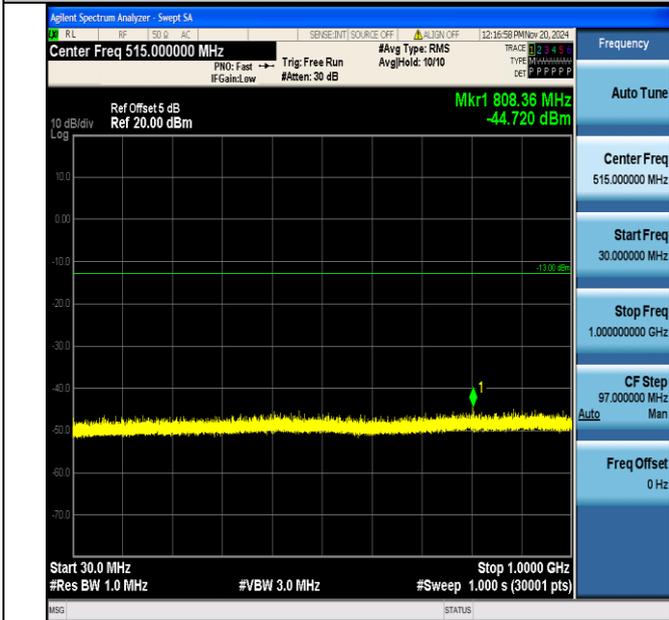
EGPRS1900-661-2-30~1000MHz-PASS



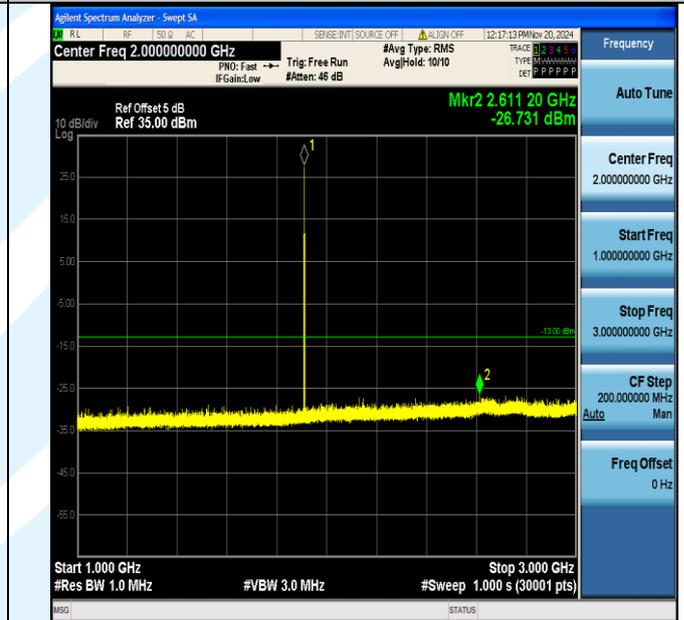
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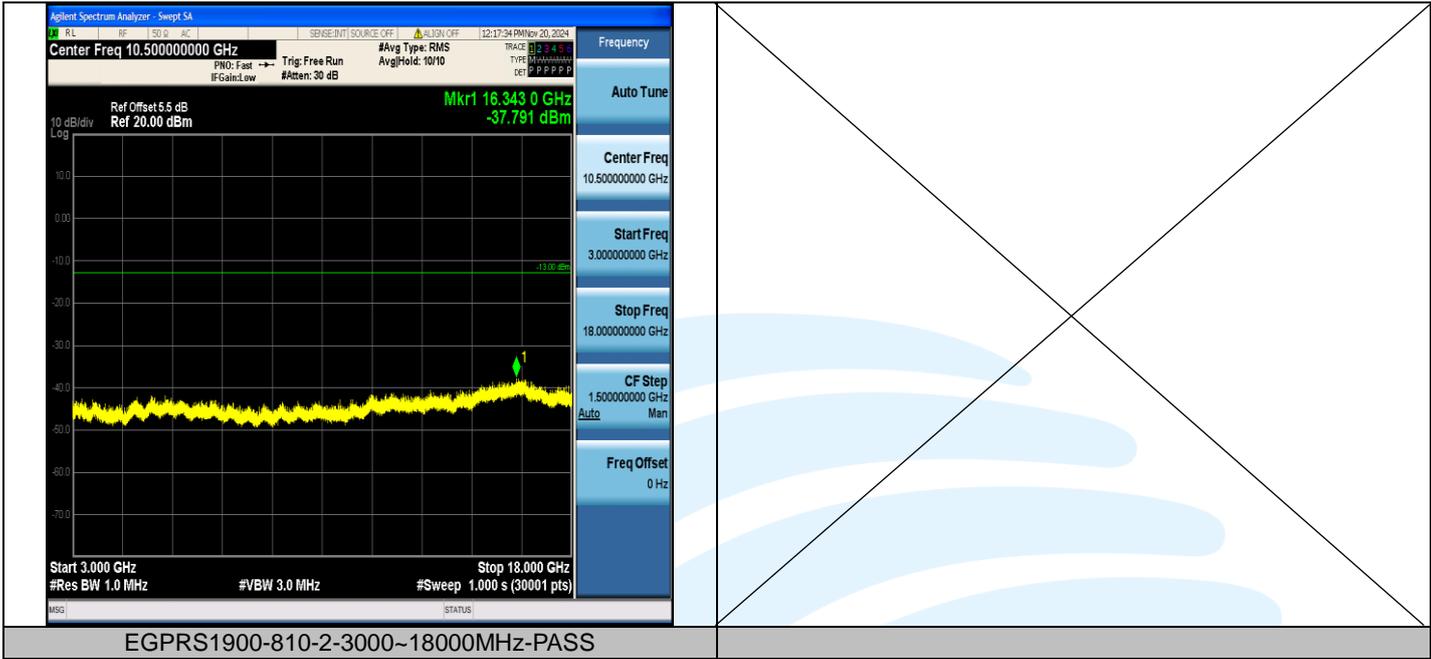
EGPRS1900-661-2-3000~18000MHz-PASS



EGPRS1900-810-2-30~1000MHz-PASS



EGPRS1900-810-2-1000~3000MHz-PASS



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APPENDIX A5: FREQUENCY STABILITY

GSM 850& PCS 1900:

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	VN	NT	-5.65	-0.006754	±2.5	PASS
GSM850	190	VL	NT	-3.23	-0.003861	±2.5	PASS
GSM850	190	VH	NT	-6.49	-0.007758	±2.5	PASS
EGPRS850	190	VN	NT	-0.52	-0.000622	±2.5	PASS
EGPRS850	190	VL	NT	-4.78	-0.005714	±2.5	PASS
EGPRS850	190	VH	NT	2.52	0.003012	±2.5	PASS
GSM1900	661	VN	NT	-1.36	-0.000723	±2.5	PASS
GSM1900	661	VL	NT	9.75	0.005186	±2.5	PASS
GSM1900	661	VH	NT	-4.65	-0.002473	±2.5	PASS
EGPRS1900	661	VN	NT	-2.97	-0.001580	±2.5	PASS
EGPRS1900	661	VL	NT	1.03	0.000548	±2.5	PASS
EGPRS1900	661	VH	NT	-1.87	-0.000995	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	-6.42	-0.007674	±2.5	PASS
GSM850	190	NV	-20	-2.45	-0.002929	±2.5	PASS
GSM850	190	NV	-10	-5.52	-0.006598	±2.5	PASS
GSM850	190	NV	0	-4.58	-0.005475	±2.5	PASS
GSM850	190	NV	10	-2.71	-0.003239	±2.5	PASS
GSM850	190	NV	20	-1.81	-0.002164	±2.5	PASS
GSM850	190	NV	30	-4.49	-0.005367	±2.5	PASS
GSM850	190	NV	40	-2.23	-0.002666	±2.5	PASS
GSM850	190	NV	50	-3.23	-0.003861	±2.5	PASS
EGPRS850	190	NV	-30	-0.19	-0.000227	±2.5	PASS
EGPRS850	190	NV	-20	0.61	0.000729	±2.5	PASS
EGPRS850	190	NV	-10	-5.04	-0.006024	±2.5	PASS
EGPRS850	190	NV	0	-4.75	-0.005678	±2.5	PASS
EGPRS850	190	NV	10	-4.36	-0.005212	±2.5	PASS
EGPRS850	190	NV	20	-0.16	-0.000191	±2.5	PASS
EGPRS850	190	NV	30	-1.61	-0.001924	±2.5	PASS
EGPRS850	190	NV	40	-3.39	-0.004052	±2.5	PASS
EGPRS850	190	NV	50	-4.13	-0.004937	±2.5	PASS
GSM1900	661	NV	-30	11.04	0.005872	±2.5	PASS
GSM1900	661	NV	-20	6.75	0.003590	±2.5	PASS
GSM1900	661	NV	-10	-2.13	-0.001133	±2.5	PASS
GSM1900	661	NV	0	2.52	0.001340	±2.5	PASS
GSM1900	661	NV	10	5.94	0.003160	±2.5	PASS
GSM1900	661	NV	20	7.33	0.003899	±2.5	PASS
GSM1900	661	NV	30	10.91	0.005803	±2.5	PASS
GSM1900	661	NV	40	-3.33	-0.001771	±2.5	PASS
GSM1900	661	NV	50	1.55	0.000824	±2.5	PASS
EGPRS1900	661	NV	-30	-9.36	-0.004979	±2.5	PASS
EGPRS1900	661	NV	-20	-2.49	-0.001324	±2.5	PASS
EGPRS1900	661	NV	-10	-6.62	-0.003521	±2.5	PASS
EGPRS1900	661	NV	0	-4.07	-0.002165	±2.5	PASS
EGPRS1900	661	NV	10	2.91	0.001548	±2.5	PASS
EGPRS1900	661	NV	20	-9.88	-0.005255	±2.5	PASS
EGPRS1900	661	NV	30	-11.69	-0.006218	±2.5	PASS
EGPRS1900	661	NV	40	-7.78	-0.004138	±2.5	PASS
EGPRS1900	661	NV	50	-6.13	-0.003261	±2.5	PASS

APPENDIX B: WCDMA
APPENDIX B1: PEAK-TO-AVERAGE RATIO

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
Band2	9262	3.18	13	PASS
Band2	9400	3.22	13	PASS
Band2	9538	3.15	13	PASS
Band4	1312	3.29	13	PASS
Band4	1413	3.31	13	PASS
Band4	1513	3.29	13	PASS
Band5	4132	3.15	13	PASS
Band5	4182	2.89	13	PASS
Band5	4233	2.99	13	PASS

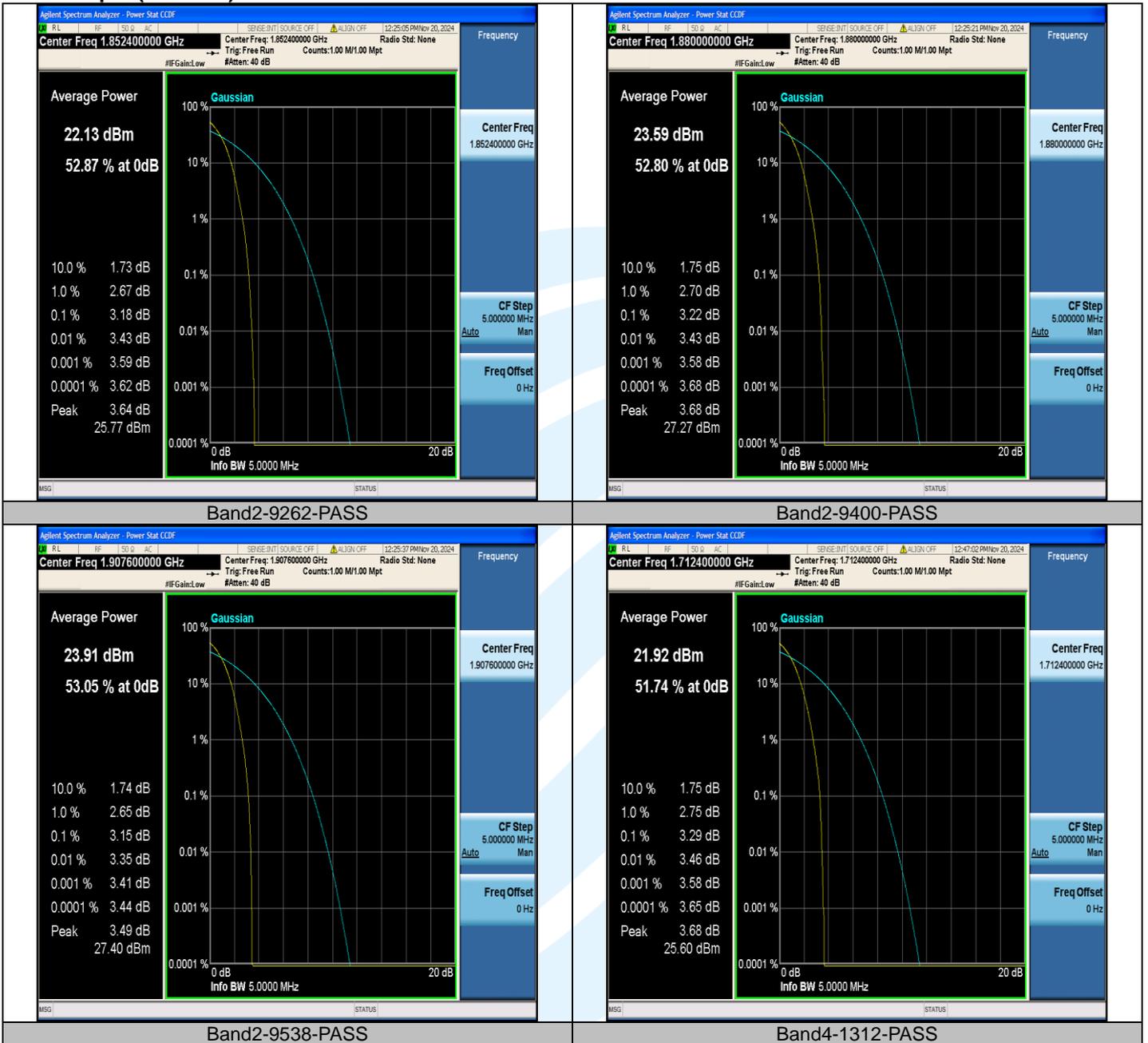
Test Result(HSDPA)

Band	Channel	Sub Test	Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
Band2	9262	1	3.11	13	PASS
Band2	9400	1	3.19	13	PASS
Band2	9538	1	3.02	13	PASS
Band4	1312	1	3.33	13	PASS
Band4	1413	1	3.2	13	PASS
Band4	1513	1	3.34	13	PASS
Band5	4132	1	3.13	13	PASS
Band5	4182	1	2.78	13	PASS
Band5	4233	1	3.11	13	PASS

Test Result(HSUPA)

Band	Channel	Sub Test	Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
Band2	9262	1	4.61	13	PASS
Band2	9400	1	4.66	13	PASS
Band2	9538	1	4.56	13	PASS
Band4	1312	1	4.73	13	PASS
Band4	1413	1	4.52	13	PASS
Band4	1513	1	4.73	13	PASS
Band5	4132	1	4.51	13	PASS
Band5	4182	1	4.15	13	PASS
Band5	4233	1	4.48	13	PASS

Test Graphs(WCDMA)





Band4-1413-PASS



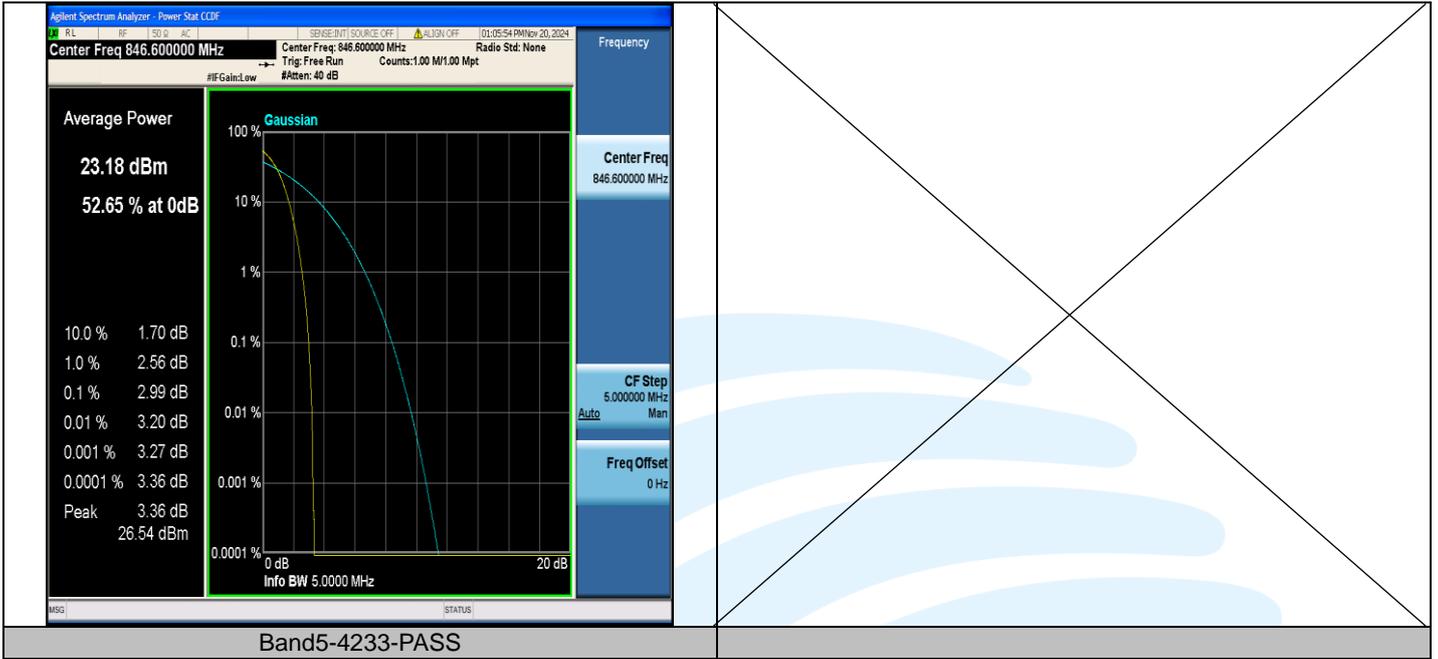
Band4-1513-PASS



Band5-4132-PASS



Band5-4182-PASS



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Test Graphs(HSDPA)



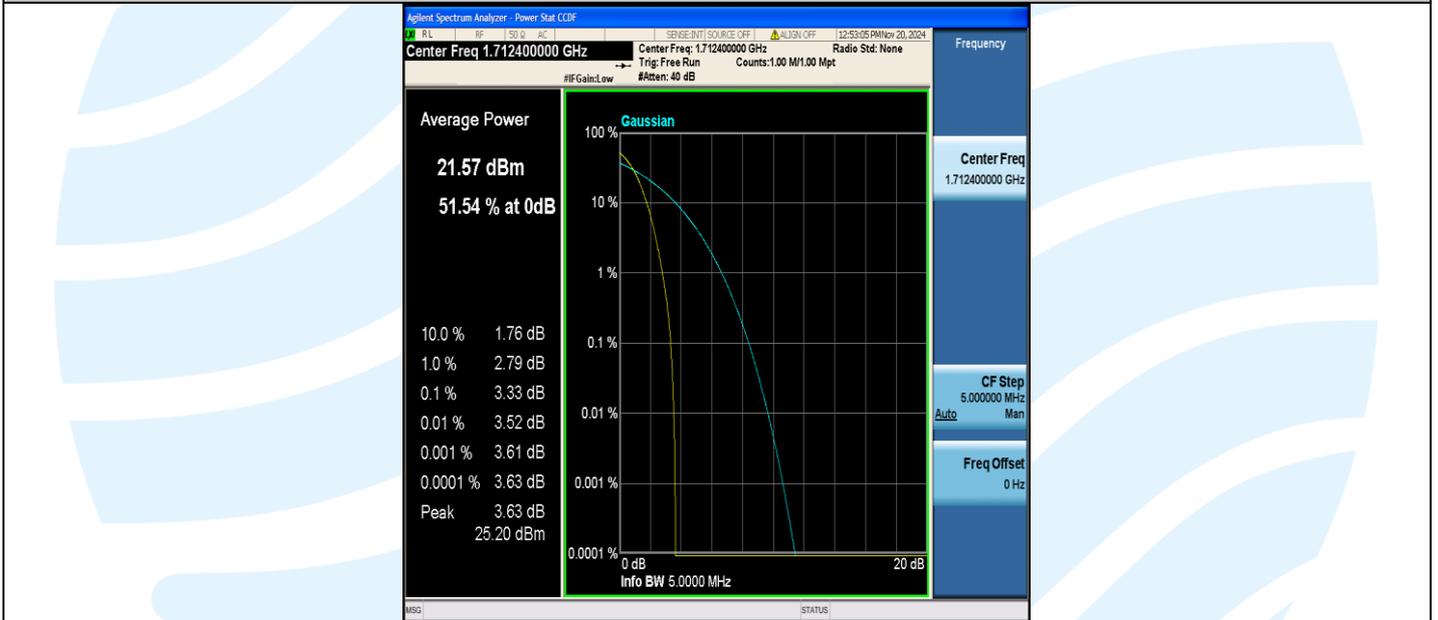
Band2-9262-1-PASS



Band2-9400-1-PASS



Band2-9538-1-PASS



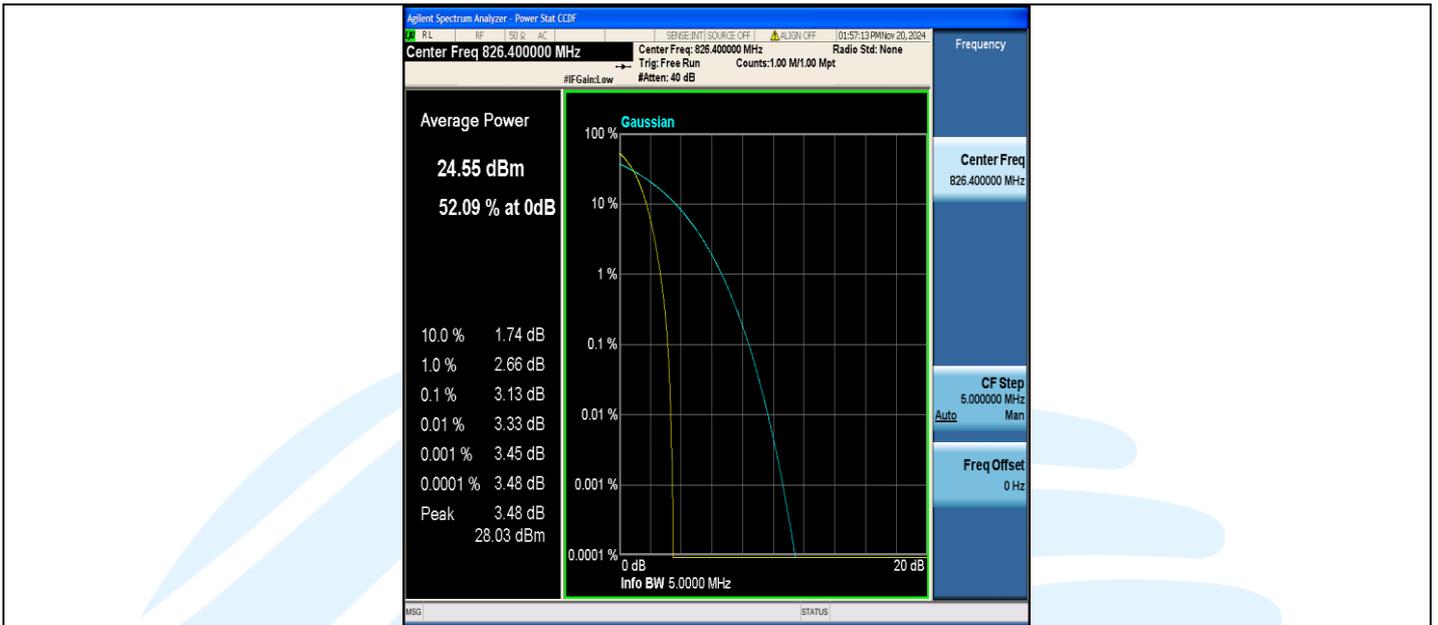
Band4-1312-1-PASS



Band4-1413-1-PASS



Band4-1513-1-PASS



Band5-4132-1-PASS



Band5-4182-1-PASS

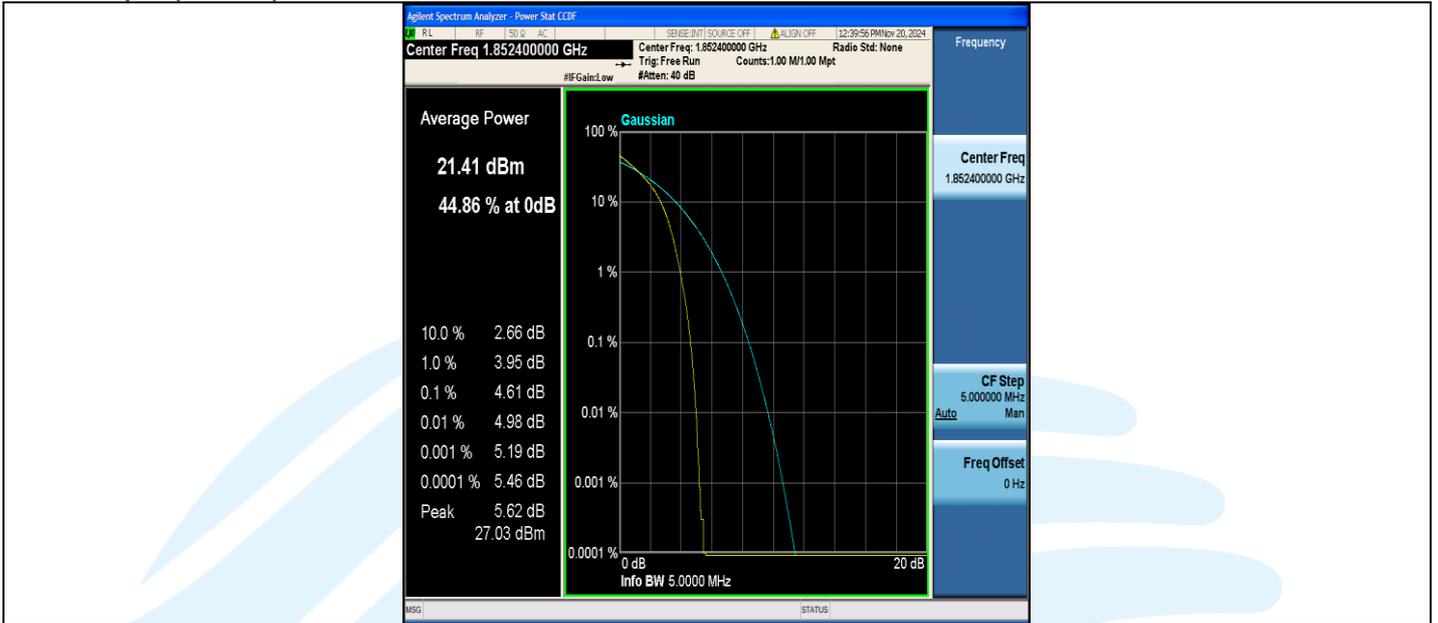


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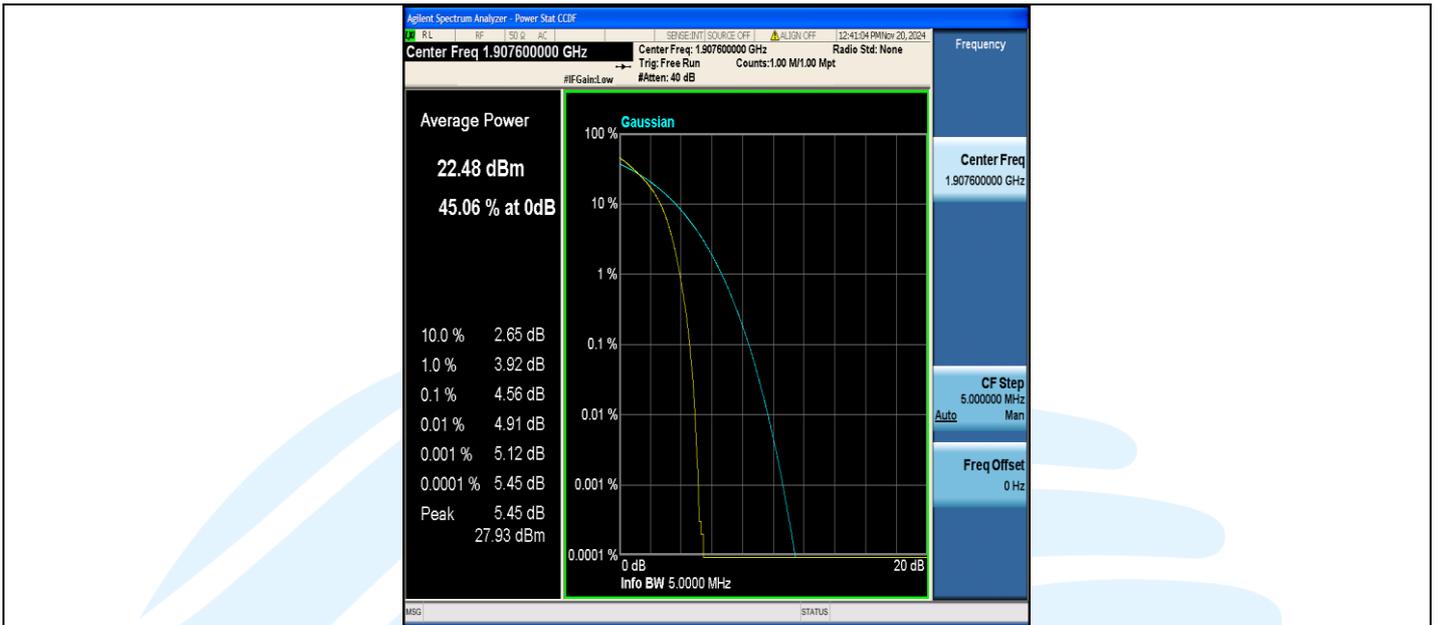
Test Graphs(HSUPA)



Band2-9262-1-PASS

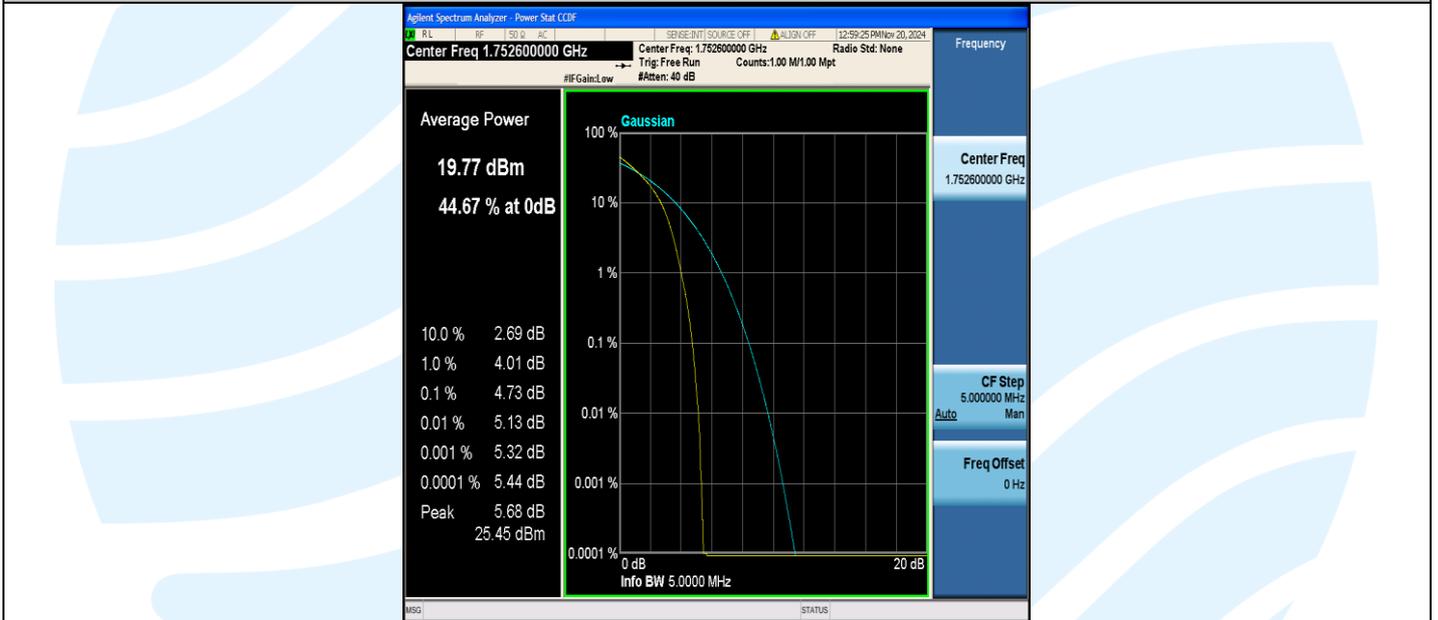


Band2-9400-1-PASS

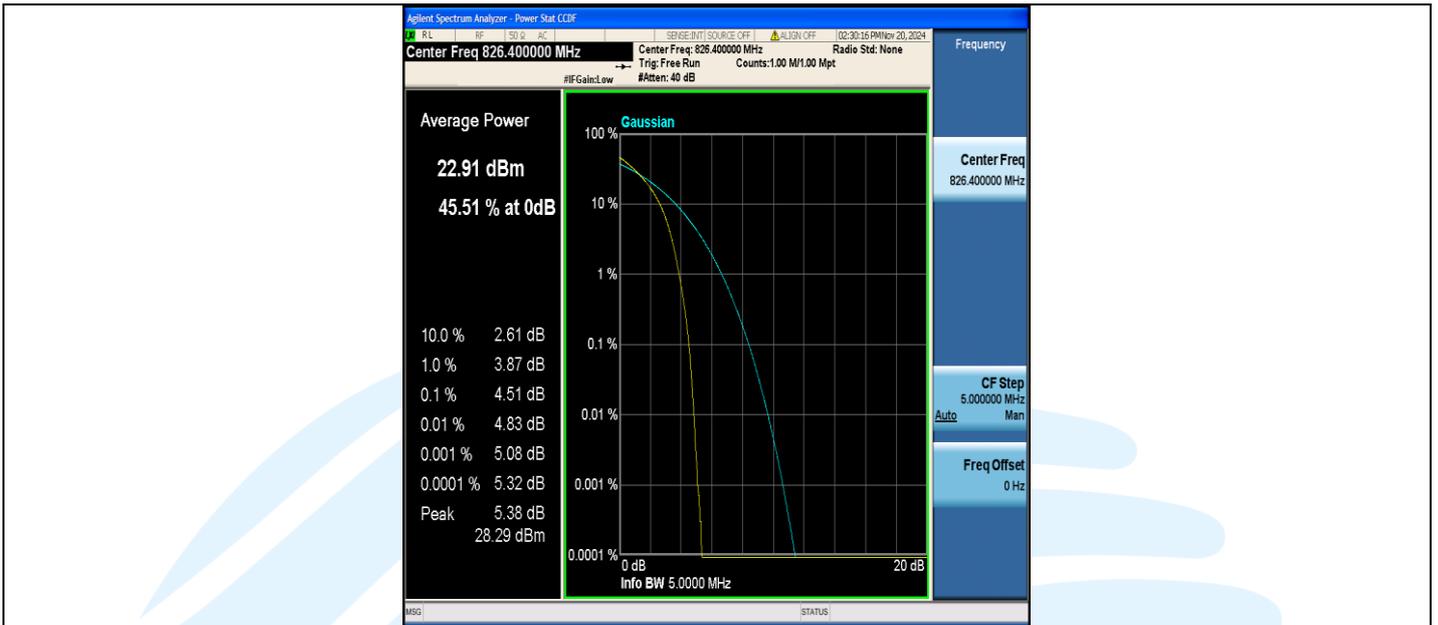




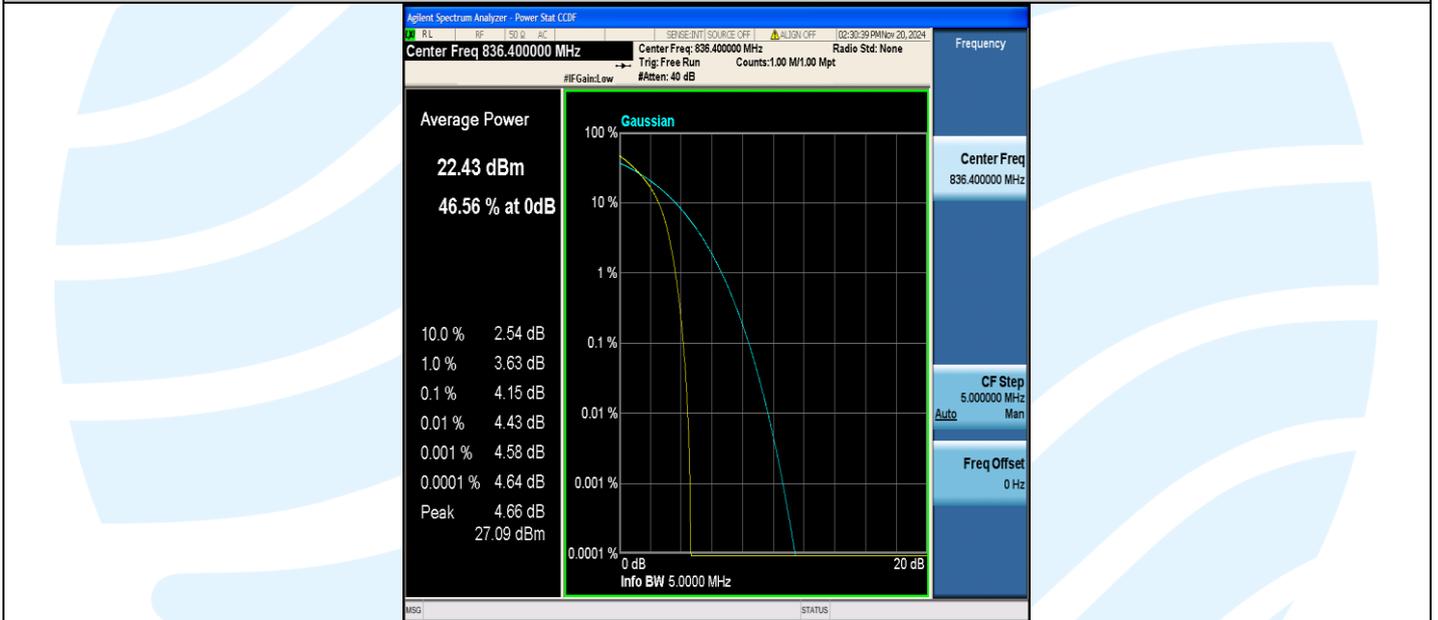
Band4-1413-1-PASS



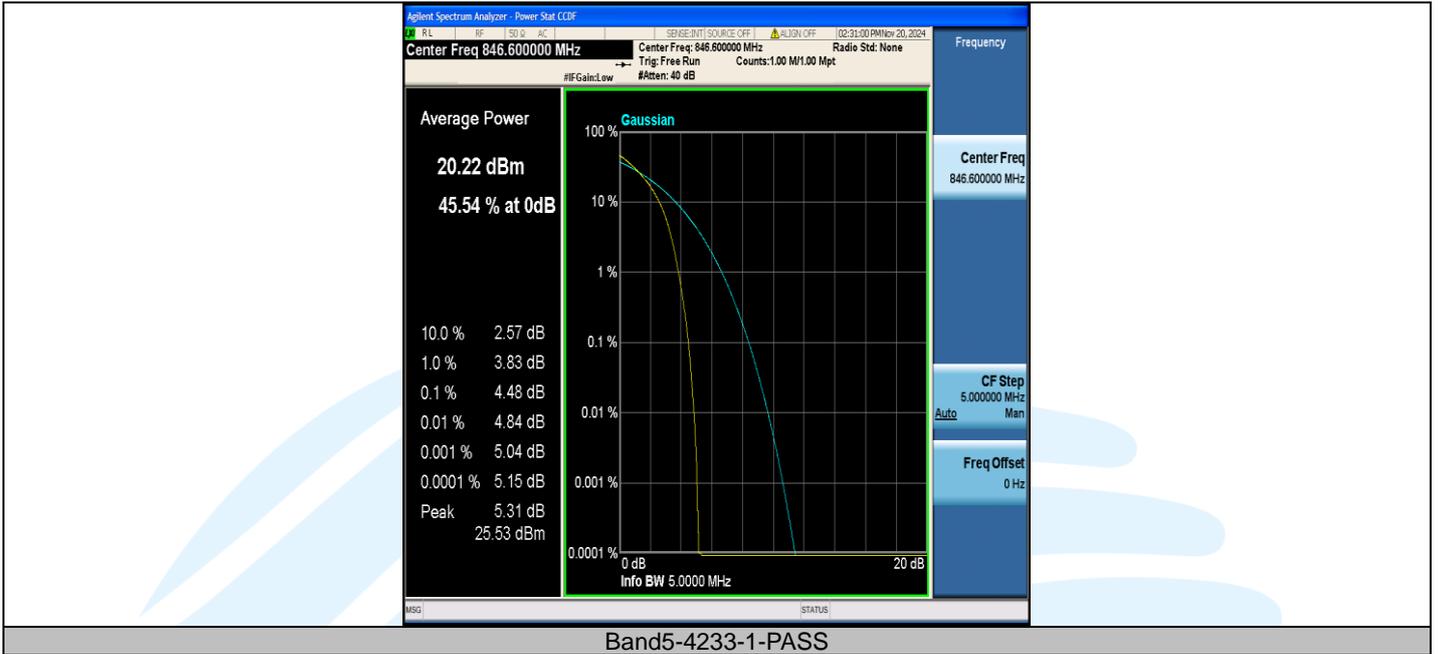
Band4-1513-1-PASS



Band5-4132-1-PASS



Band5-4182-1-PASS



Band5-4233-1-PASS

APPENDIX B2: 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.1459	4.658	---	PASS
Band2	9400	4.1474	4.649	---	PASS
Band2	9538	4.1491	4.667	---	PASS
Band4	1312	4.1466	4.651	---	PASS
Band4	1413	4.1361	4.653	---	PASS
Band4	1513	4.1494	4.656	---	PASS
Band5	4132	4.1471	4.660	---	PASS
Band5	4182	4.1491	4.676	---	PASS
Band5	4233	4.1590	4.672	---	PASS

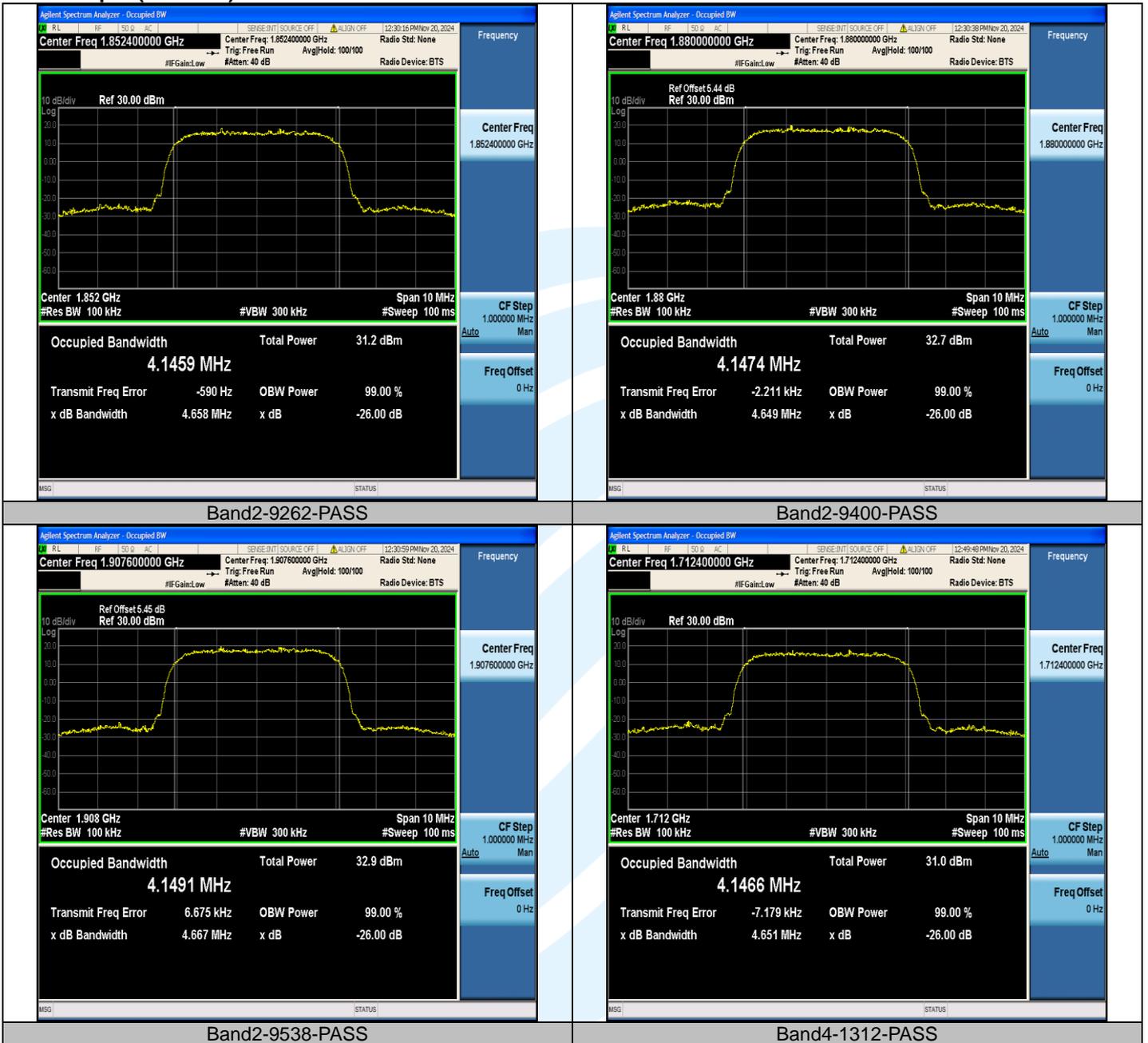
Test Result(HSDPA)

Band	Channel	Sub Test	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	1	4.1481	4.666	---	PASS
Band2	9400	1	4.1459	4.666	---	PASS
Band2	9538	1	4.1461	4.683	---	PASS
Band4	1312	1	4.1455	4.661	---	PASS
Band4	1413	1	4.1375	4.668	---	PASS
Band4	1513	1	4.1443	4.664	---	PASS
Band5	4132	1	4.1534	4.672	---	PASS
Band5	4182	1	4.1457	4.683	---	PASS
Band5	4233	1	4.1527	4.675	---	PASS

Test Result(HSUPA)

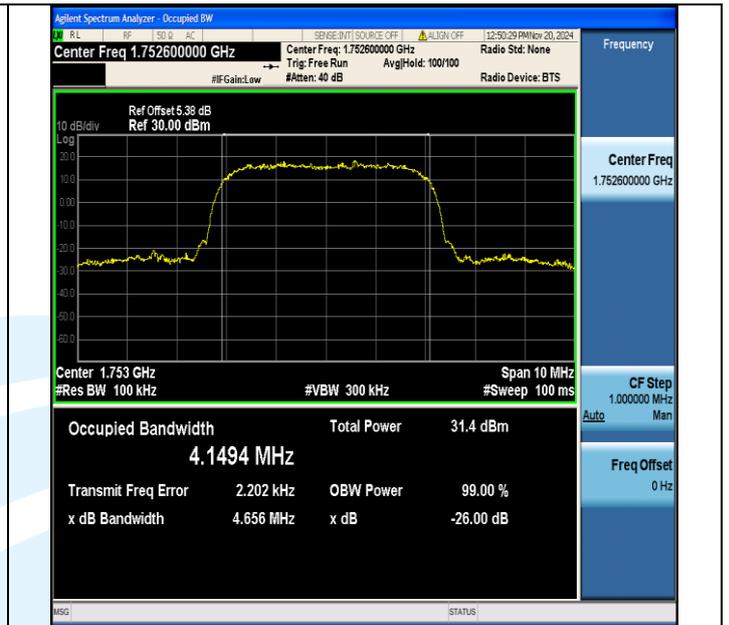
Band	Channel	Sub Test	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	1	4.1693	4.682	---	PASS
Band2	9400	1	4.1700	4.671	---	PASS
Band2	9538	1	4.1702	4.686	---	PASS
Band4	1312	1	4.1726	4.690	---	PASS
Band4	1413	1	4.1572	4.672	---	PASS
Band4	1513	1	4.1669	4.673	---	PASS
Band5	4132	1	4.1716	4.682	---	PASS
Band5	4182	1	4.1559	4.695	---	PASS
Band5	4233	1	4.1809	4.675	---	PASS

Test Graphs(WCDMA)

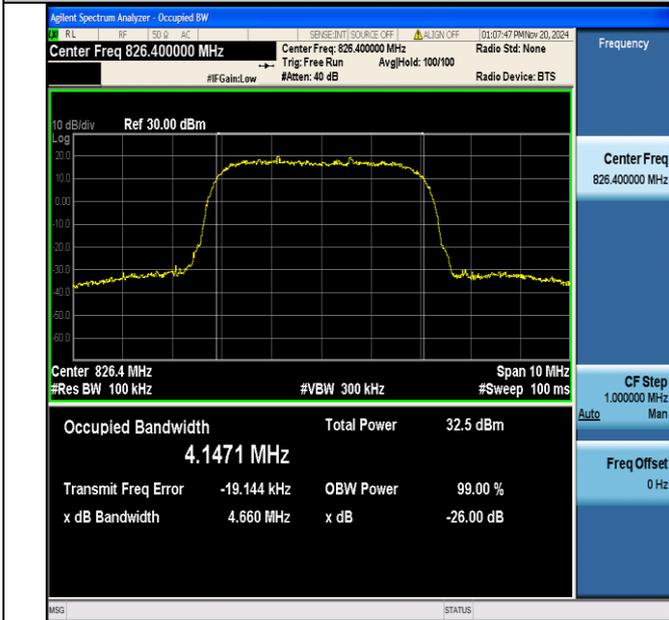




Band4-1413-PASS



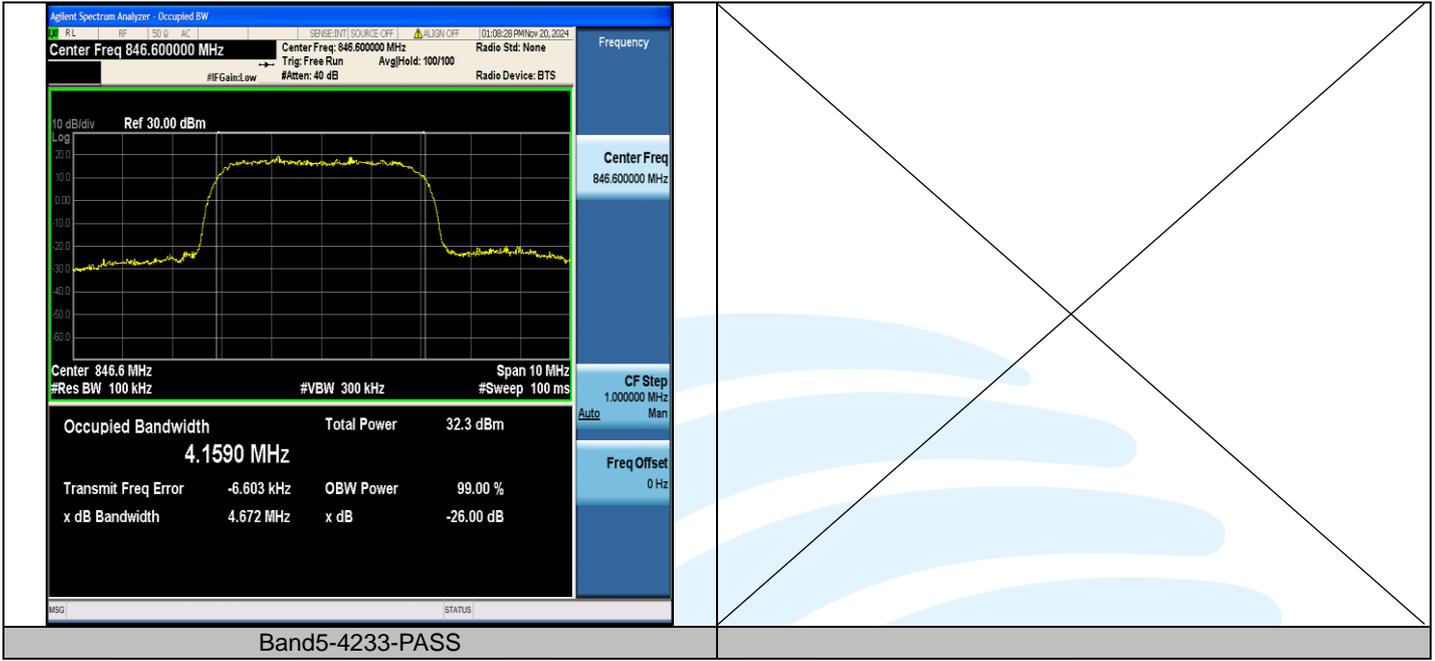
Band4-1513-PASS



Band5-4132-PASS



Band5-4182-PASS



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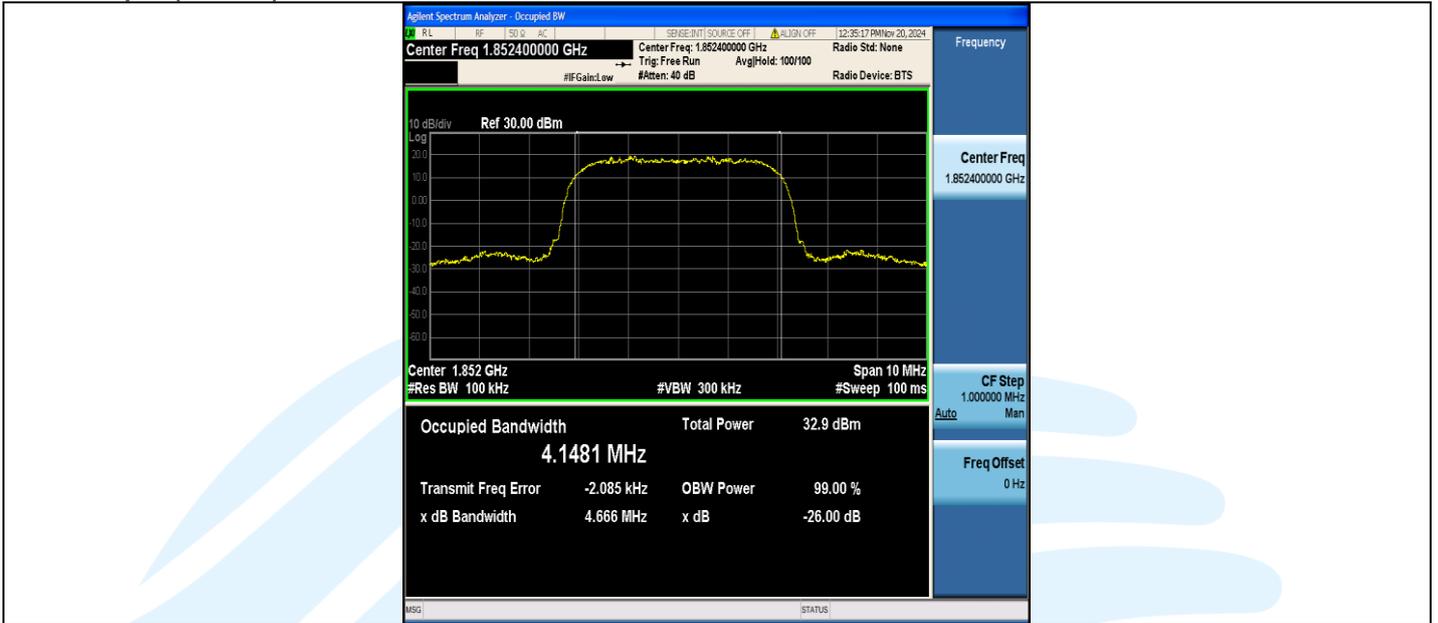
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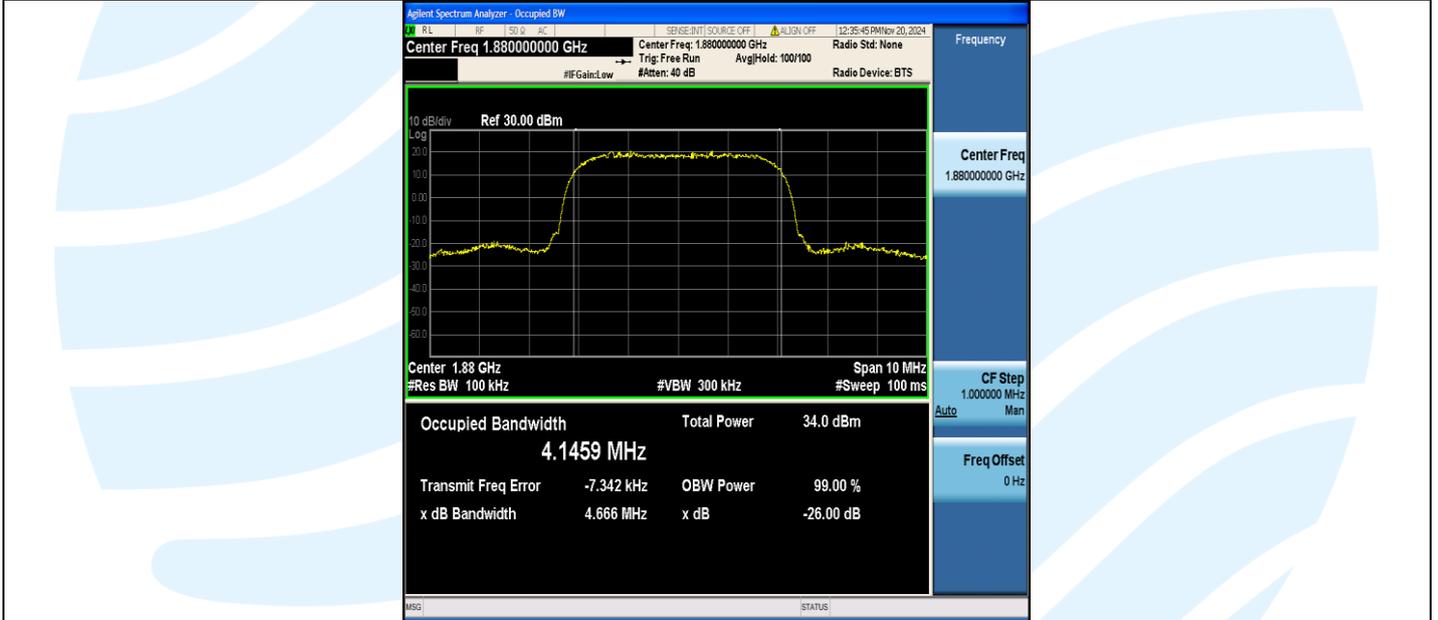
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Test Graphs(HSDPA)



Band2-9262-1-PASS



Band2-9400-1-PASS