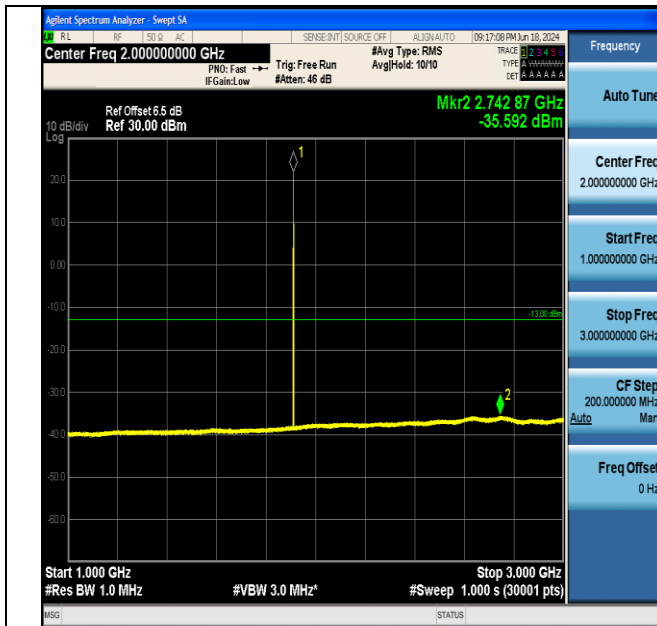
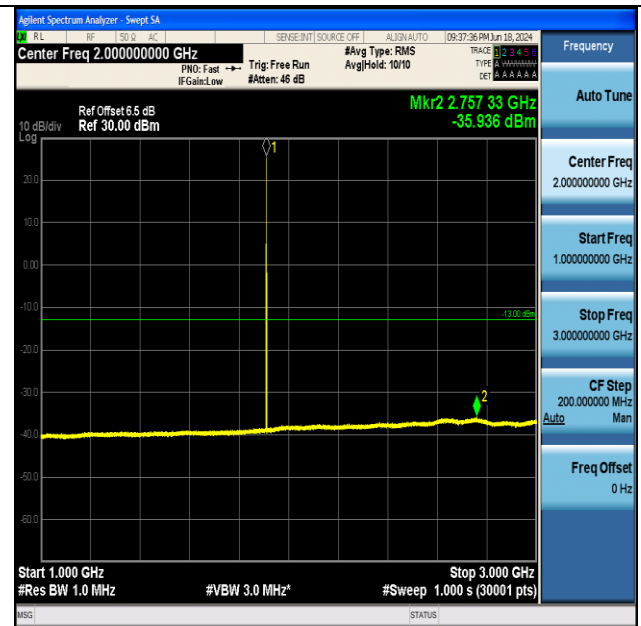




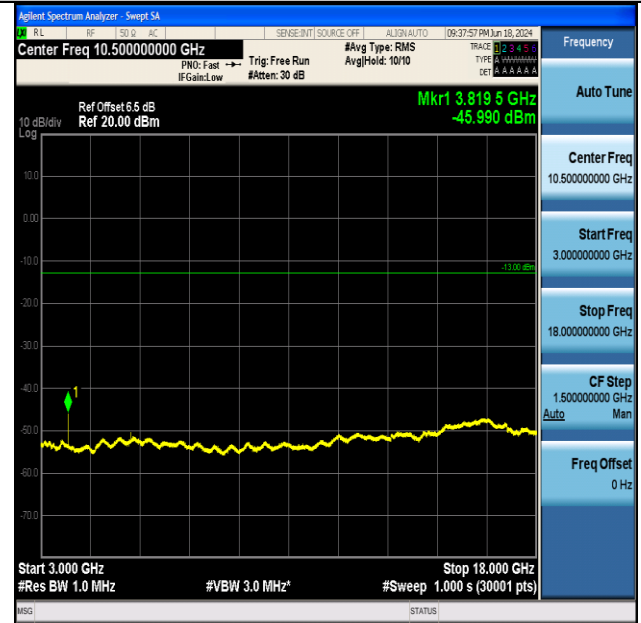
GSM1900-810-0-1000~3000MHz-PASS



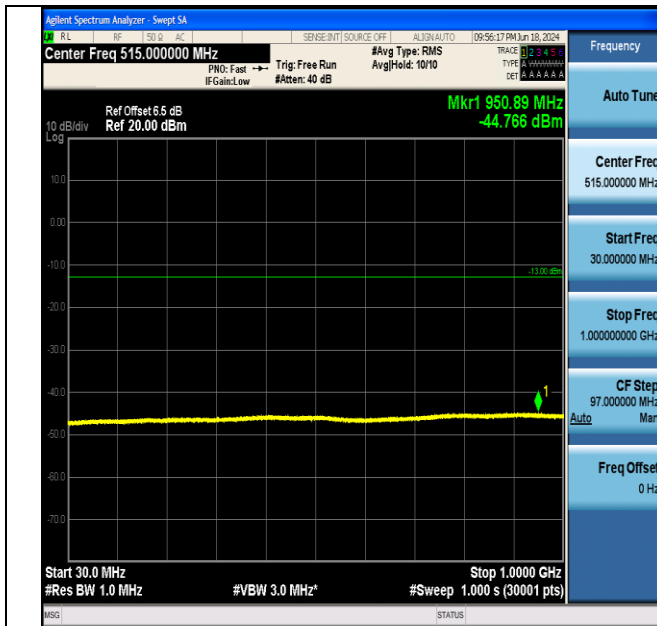
GPRS1900-810-0-1000~3000MHz-PASS



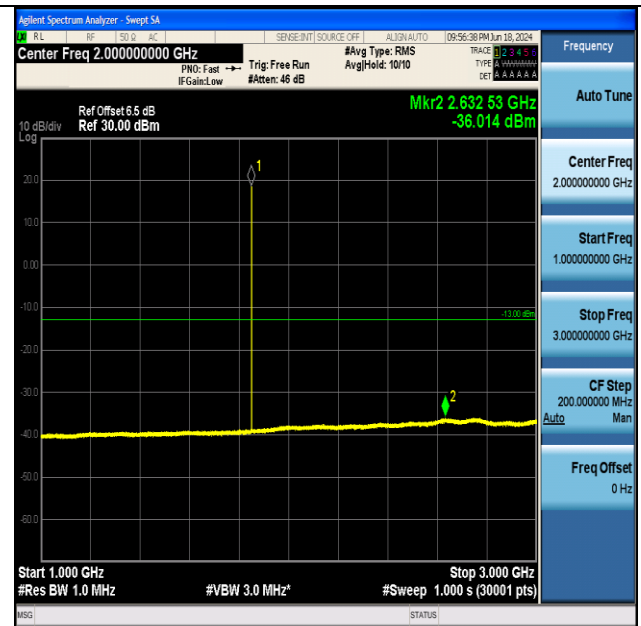
GSM1900-810-0-3000~18000MHz-PASS



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



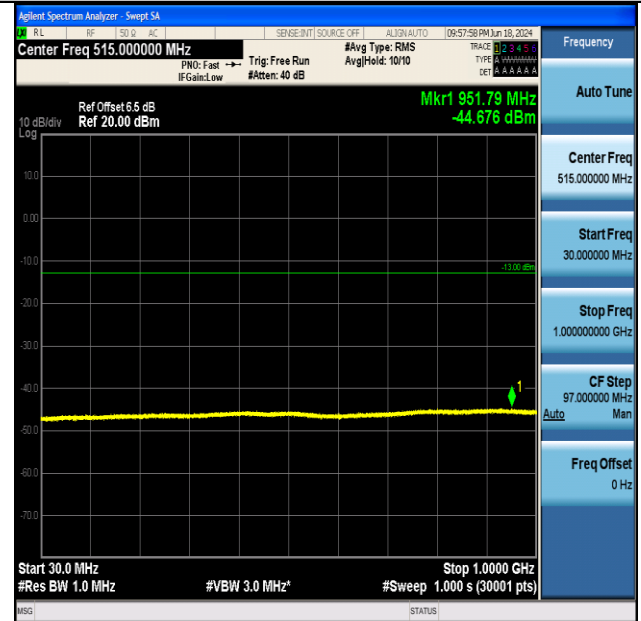
EGPRS1900-512-2-30~1000MHz-PASS



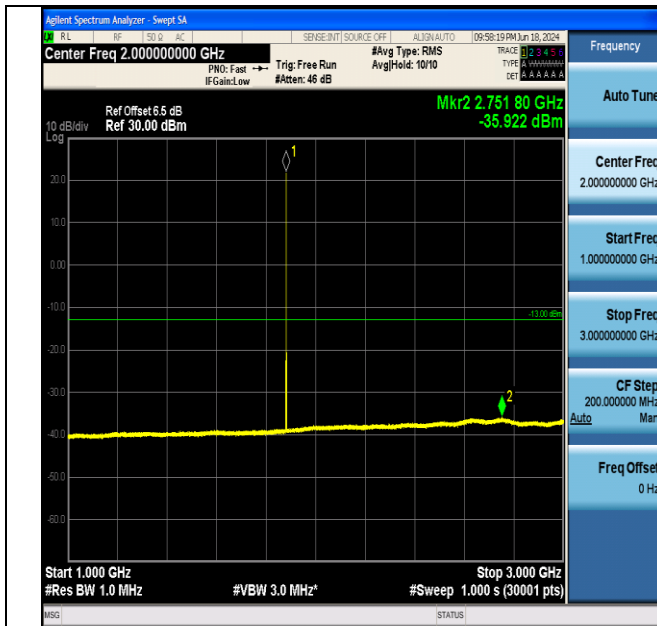
EGPRS1900-512-2-1000~3000MHz-PASS



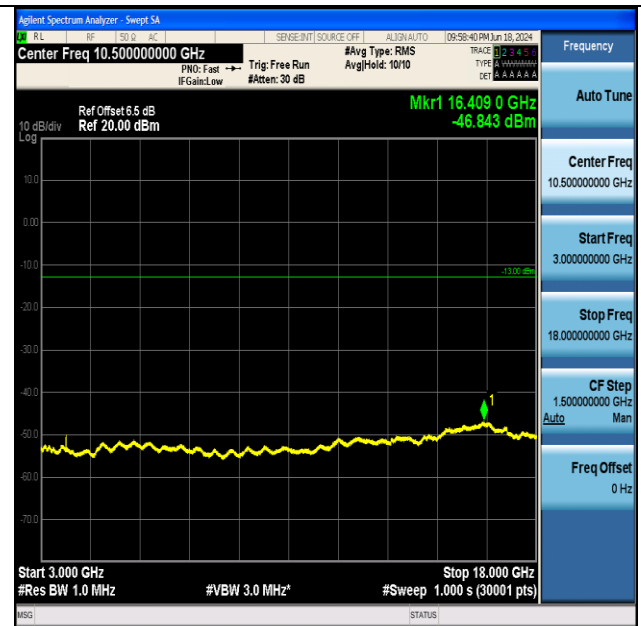
EGPRS1900-512-2-3000~18000MHz-PASS



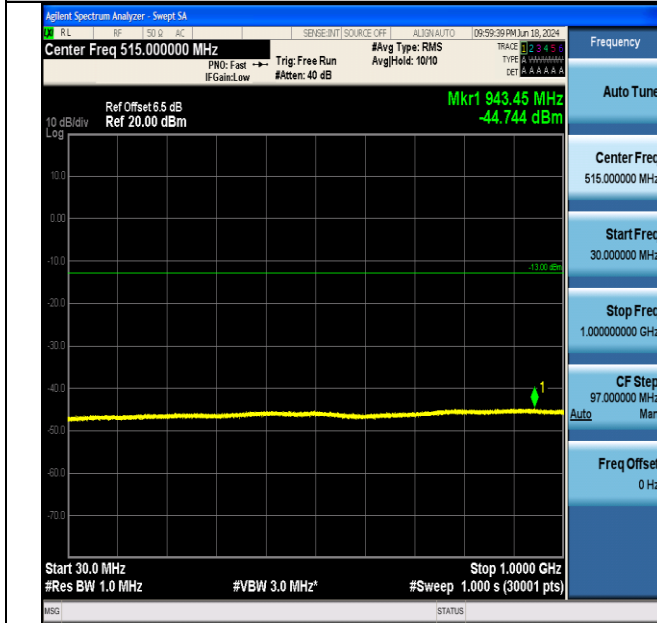
EGPRS1900-661-2-30~1000MHz-PASS



EGPRS1900-661-2-1000~3000MHz-PASS



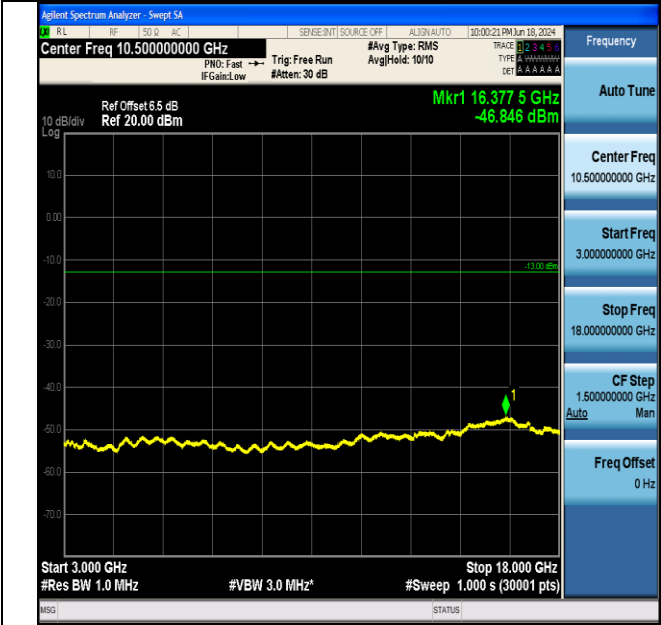
EGPRS1900-661-2-3000~18000MHz-PASS



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



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



EGPRS1900-810-2-3000~18000MHz-PASS

APPENDIX A5: FREQUENCY STABILITY

Test Result

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	1.97	0.002390	±2.5	PASS
GSM850	128	NV	-20	-3.65	-0.004429	±2.5	PASS
GSM850	128	NV	-10	2.16	0.002621	±2.5	PASS
GSM850	128	NV	0	3.75	0.004550	±2.5	PASS
GSM850	128	NV	10	2.23	0.002706	±2.5	PASS
GSM850	128	NV	20	-0.81	-0.000983	±2.5	PASS
GSM850	128	NV	30	-0.52	-0.000631	±2.5	PASS
GSM850	128	NV	40	2.23	0.002706	±2.5	PASS
GSM850	128	NV	50	-0.19	-0.000231	±2.5	PASS
EGPRS850	128	NV	-30	6.65	0.008068	±2.5	PASS
EGPRS850	128	NV	-20	9.36	0.011356	±2.5	PASS
EGPRS850	128	NV	-10	5.42	0.006576	±2.5	PASS
EGPRS850	128	NV	0	9.23	0.011199	±2.5	PASS
EGPRS850	128	NV	10	8.27	0.010034	±2.5	PASS
EGPRS850	128	NV	20	6.81	0.008263	±2.5	PASS
EGPRS850	128	NV	30	8.01	0.009719	±2.5	PASS
EGPRS850	128	NV	40	9.78	0.011866	±2.5	PASS
EGPRS850	128	NV	50	7.10	0.008614	±2.5	PASS
GSM850	190	NV	-30	4.33	0.005176	±2.5	PASS
GSM850	190	NV	-20	3.49	0.004172	±2.5	PASS
GSM850	190	NV	-10	2.20	0.002630	±2.5	PASS
GSM850	190	NV	0	5.10	0.006096	±2.5	PASS
GSM850	190	NV	10	4.36	0.005212	±2.5	PASS
GSM850	190	NV	20	3.55	0.004243	±2.5	PASS
GSM850	190	NV	30	6.68	0.007985	±2.5	PASS
GSM850	190	NV	40	-0.48	-0.000574	±2.5	PASS
GSM850	190	NV	50	1.13	0.001351	±2.5	PASS
EGPRS850	190	NV	-30	7.39	0.008833	±2.5	PASS
EGPRS850	190	NV	-20	5.94	0.007100	±2.5	PASS
EGPRS850	190	NV	-10	7.20	0.008606	±2.5	PASS
EGPRS850	190	NV	0	4.36	0.005212	±2.5	PASS
EGPRS850	190	NV	10	9.20	0.010997	±2.5	PASS
EGPRS850	190	NV	20	10.01	0.011965	±2.5	PASS
EGPRS850	190	NV	30	6.78	0.008104	±2.5	PASS
EGPRS850	190	NV	40	7.46	0.008917	±2.5	PASS
EGPRS850	190	NV	50	-0.90	-0.001076	±2.5	PASS
GSM850	251	NV	-30	8.46	0.009967	±2.5	PASS
GSM850	251	NV	-20	6.49	0.007646	±2.5	PASS
GSM850	251	NV	-10	5.39	0.006350	±2.5	PASS
GSM850	251	NV	0	6.20	0.007304	±2.5	PASS
GSM850	251	NV	10	3.29	0.003876	±2.5	PASS
GSM850	251	NV	20	5.84	0.006880	±2.5	PASS
GSM850	251	NV	30	3.55	0.004182	±2.5	PASS
GSM850	251	NV	40	3.10	0.003652	±2.5	PASS
GSM850	251	NV	50	0.55	0.000648	±2.5	PASS
EGPRS850	251	NV	-30	5.20	0.006126	±2.5	PASS
EGPRS850	251	NV	-20	4.91	0.005785	±2.5	PASS
EGPRS850	251	NV	-10	6.26	0.007375	±2.5	PASS
EGPRS850	251	NV	0	6.01	0.007081	±2.5	PASS
EGPRS850	251	NV	10	7.81	0.009201	±2.5	PASS
EGPRS850	251	NV	20	2.84	0.003346	±2.5	PASS
EGPRS850	251	NV	30	4.42	0.005207	±2.5	PASS
EGPRS850	251	NV	40	6.26	0.007375	±2.5	PASS
EGPRS850	251	NV	50	4.81	0.005667	±2.5	PASS
GSM1900	512	NV	-30	250.00	0.135121	±NA	PASS
GSM1900	512	NV	-20	-350.00	-0.189169	±NA	PASS
GSM1900	512	NV	-10	-360.00	-0.194574	±NA	PASS

GSM1900	512	NV	0	-310.00	-0.167549	±NA	PASS
GSM1900	512	NV	10	-80.00	-0.043239	±NA	PASS
GSM1900	512	NV	20	330.00	0.178359	±NA	PASS
GSM1900	512	NV	30	-100.00	-0.054048	±NA	PASS
GSM1900	512	NV	40	1480.00	0.799914	±NA	PASS
GSM1900	512	NV	50	-290.00	-0.156740	±NA	PASS
EGPRS1900	512	NV	-30	-70.00	-0.037834	±NA	PASS
EGPRS1900	512	NV	-20	450.00	0.243217	±NA	PASS
EGPRS1900	512	NV	-10	1070.00	0.578316	±NA	PASS
EGPRS1900	512	NV	0	160.00	0.086477	±NA	PASS
EGPRS1900	512	NV	10	510.00	0.275646	±NA	PASS
EGPRS1900	512	NV	20	690.00	0.372933	±NA	PASS
EGPRS1900	512	NV	30	600.00	0.324289	±NA	PASS
EGPRS1900	512	NV	40	10.00	0.005405	±NA	PASS
EGPRS1900	512	NV	50	210.00	0.113501	±NA	PASS
GSM1900	661	NV	-30	-80.00	-0.042553	±NA	PASS
GSM1900	661	NV	-20	-1180.00	-0.627660	±NA	PASS
GSM1900	661	NV	-10	220.00	0.117021	±NA	PASS
GSM1900	661	NV	0	-380.00	-0.202128	±NA	PASS
GSM1900	661	NV	10	-600.00	-0.319149	±NA	PASS
GSM1900	661	NV	20	-70.00	-0.037234	±NA	PASS
GSM1900	661	NV	30	-690.00	-0.367021	±NA	PASS
GSM1900	661	NV	40	990.00	0.526596	±NA	PASS
GSM1900	661	NV	50	200.00	0.106383	±NA	PASS
EGPRS1900	661	NV	-30	100.00	0.053191	±NA	PASS
EGPRS1900	661	NV	-20	90.00	0.047872	±NA	PASS
EGPRS1900	661	NV	-10	40.00	0.021277	±NA	PASS
EGPRS1900	661	NV	0	740.00	0.393617	±NA	PASS
EGPRS1900	661	NV	10	470.00	0.250000	±NA	PASS
EGPRS1900	661	NV	20	-300.00	-0.159574	±NA	PASS
EGPRS1900	661	NV	30	-200.00	-0.106383	±NA	PASS
EGPRS1900	661	NV	40	-630.00	-0.335106	±NA	PASS
EGPRS1900	661	NV	50	70.00	0.037234	±NA	PASS
GSM1900	810	NV	-30	-190.00	-0.099487	±NA	PASS
GSM1900	810	NV	-20	980.00	0.513143	±NA	PASS
GSM1900	810	NV	-10	-160.00	-0.083778	±NA	PASS
GSM1900	810	NV	0	10.00	0.005236	±NA	PASS
GSM1900	810	NV	10	1140.00	0.596921	±NA	PASS
GSM1900	810	NV	20	500.00	0.261808	±NA	PASS
GSM1900	810	NV	30	320.00	0.167557	±NA	PASS
GSM1900	810	NV	40	320.00	0.167557	±NA	PASS
GSM1900	810	NV	50	220.00	0.115195	±NA	PASS
EGPRS1900	810	NV	-30	340.00	0.178029	±NA	PASS
EGPRS1900	810	NV	-20	1060.00	0.555032	±NA	PASS

EGPRS190 0	810	NV	-10	700.00	0.366531	±NA	PASS
EGPRS190 0	810	NV	0	630.00	0.329877	±NA	PASS
EGPRS190 0	810	NV	10	40.00	0.020945	±NA	PASS
EGPRS190 0	810	NV	20	60.00	0.031417	±NA	PASS
EGPRS190 0	810	NV	30	-250.00	-0.130904	±NA	PASS
EGPRS190 0	810	NV	40	700.00	0.366531	±NA	PASS
EGPRS190 0	810	NV	50	290.00	0.151848	±NA	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	2.93	13	PASS
Band2	9400	2.91	13	PASS
Band2	9538	2.84	13	PASS
Band4	1312	2.95	13	PASS
Band4	1413	3.07	13	PASS
Band4	1513	2.75	13	PASS
Band5	4132	3.14	13	PASS
Band5	4182	3.2	13	PASS
Band5	4233	2.92	13	PASS

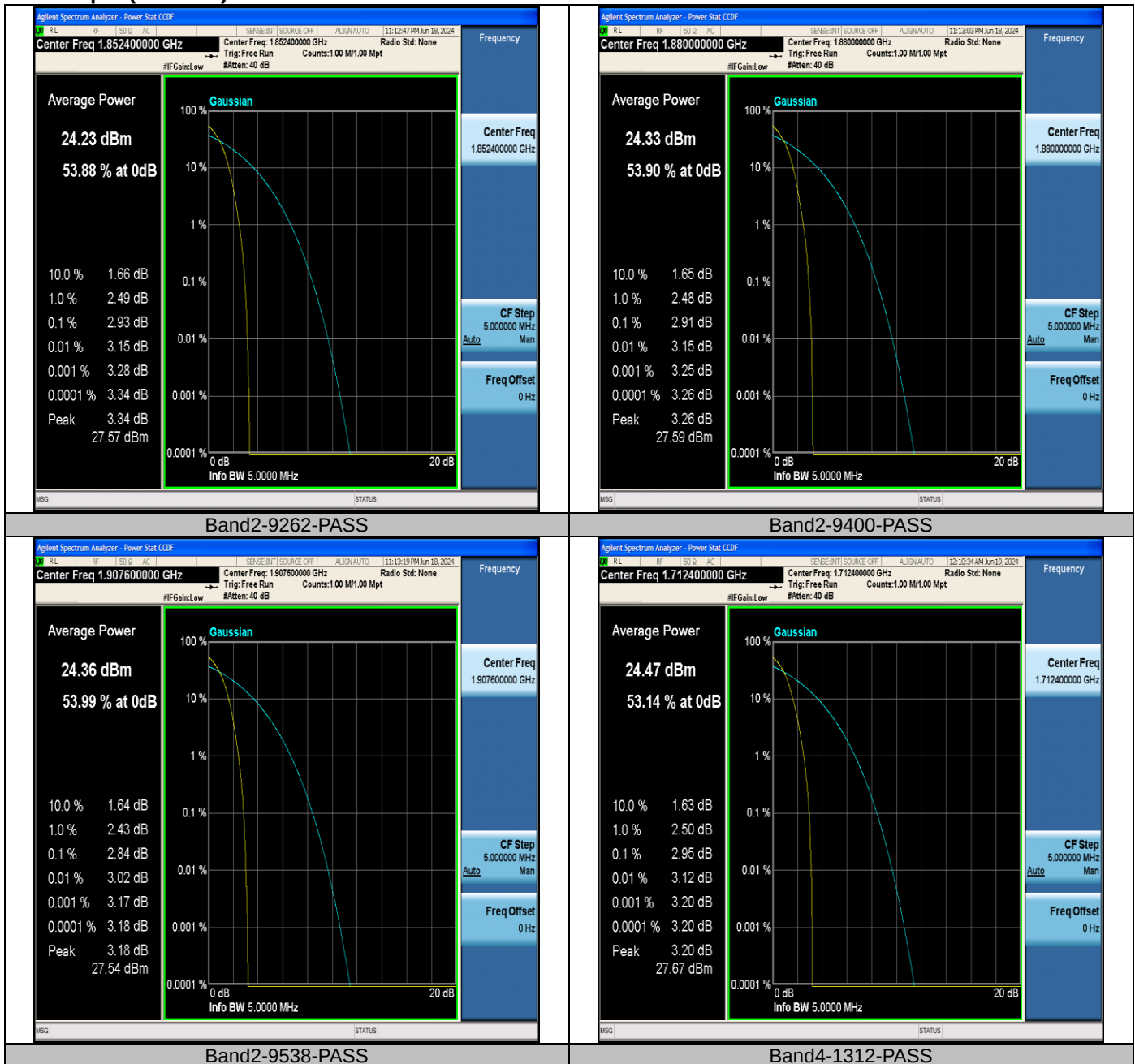
Test Result(HSDPA)

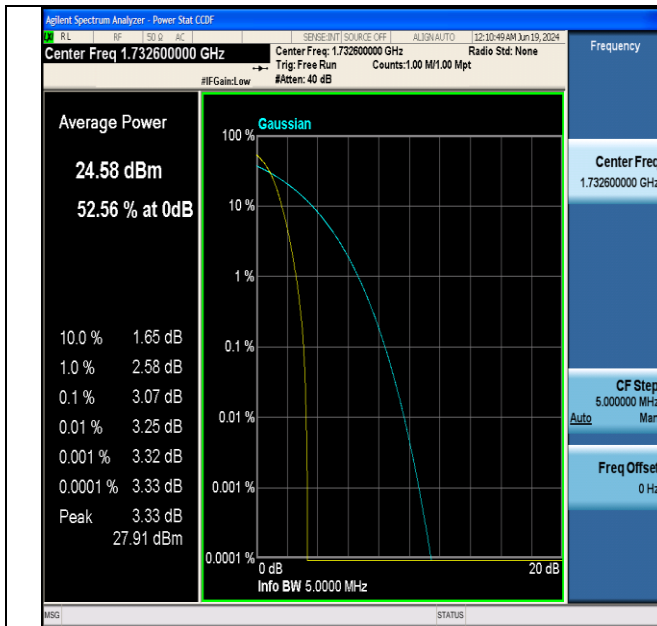
Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	1	3.07	13	PASS
Band2	9400	1	3.04	13	PASS
Band2	9538	1	2.99	13	PASS
Band4	1312	1	3.12	13	PASS
Band4	1413	1	3.12	13	PASS
Band4	1513	1	3.03	13	PASS
Band5	4132	1	3.32	13	PASS
Band5	4182	1	3.36	13	PASS
Band5	4233	1	3.23	13	PASS

Test Result(HSUPA)

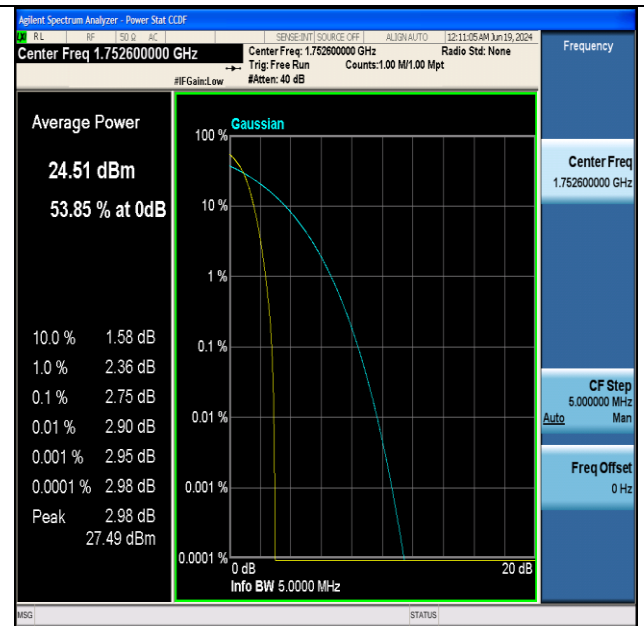
Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	1	4.38	13	PASS
Band2	9400	1	4.36	13	PASS
Band2	9538	1	4.35	13	PASS
Band4	1312	1	4.08	13	PASS
Band4	1413	1	4.41	13	PASS
Band4	1513	1	3.64	13	PASS
Band5	4132	1	4.78	13	PASS
Band5	4182	1	4.77	13	PASS
Band5	4233	1	4.67	13	PASS

Test Graphs(WCDMA)





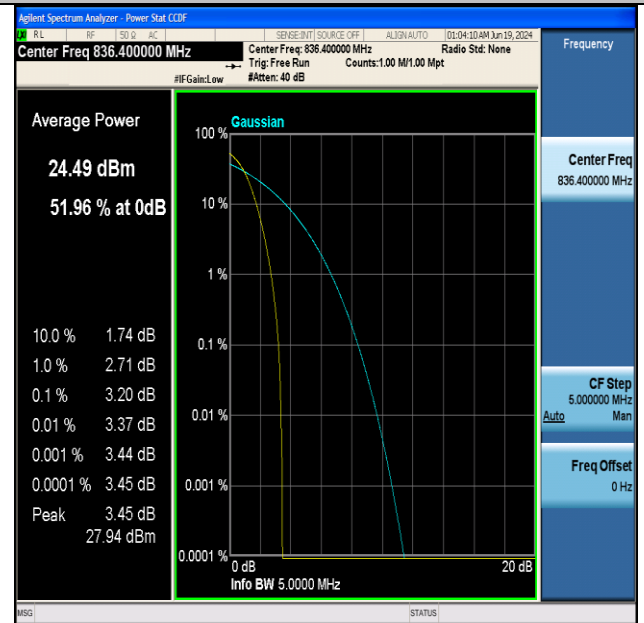
Band4-1413-PASS



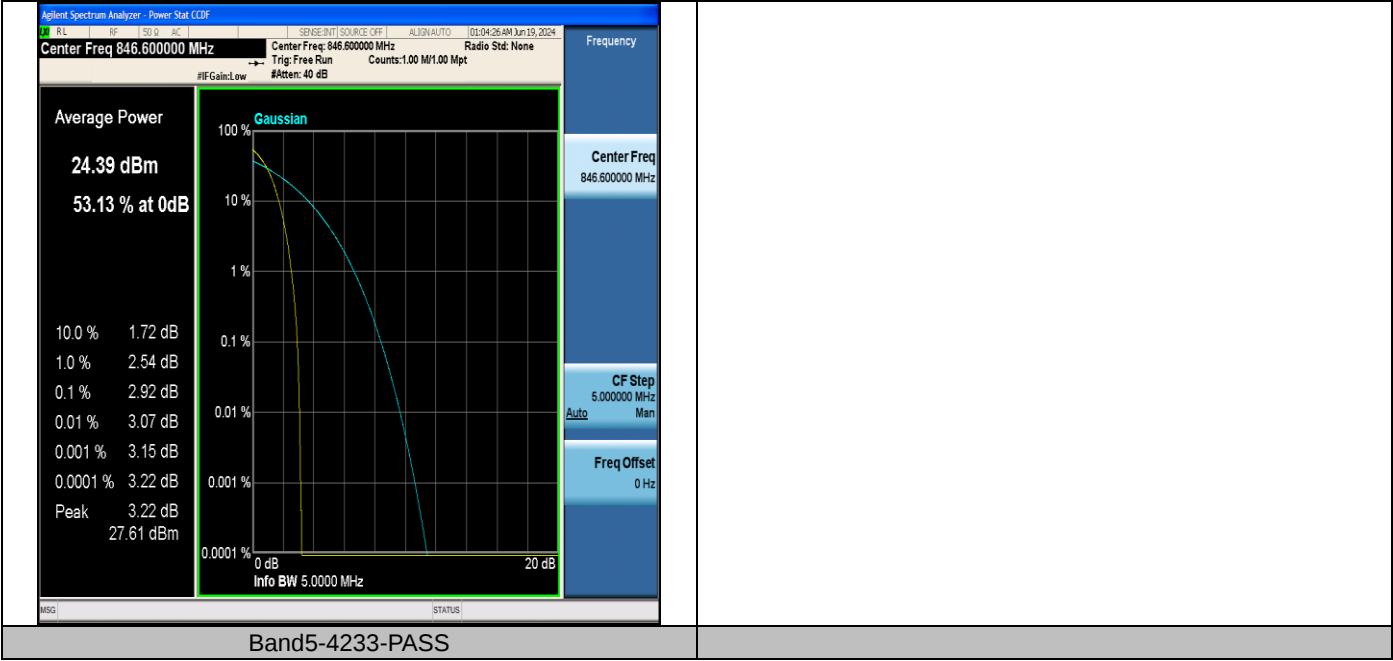
Band4-1513-PASS



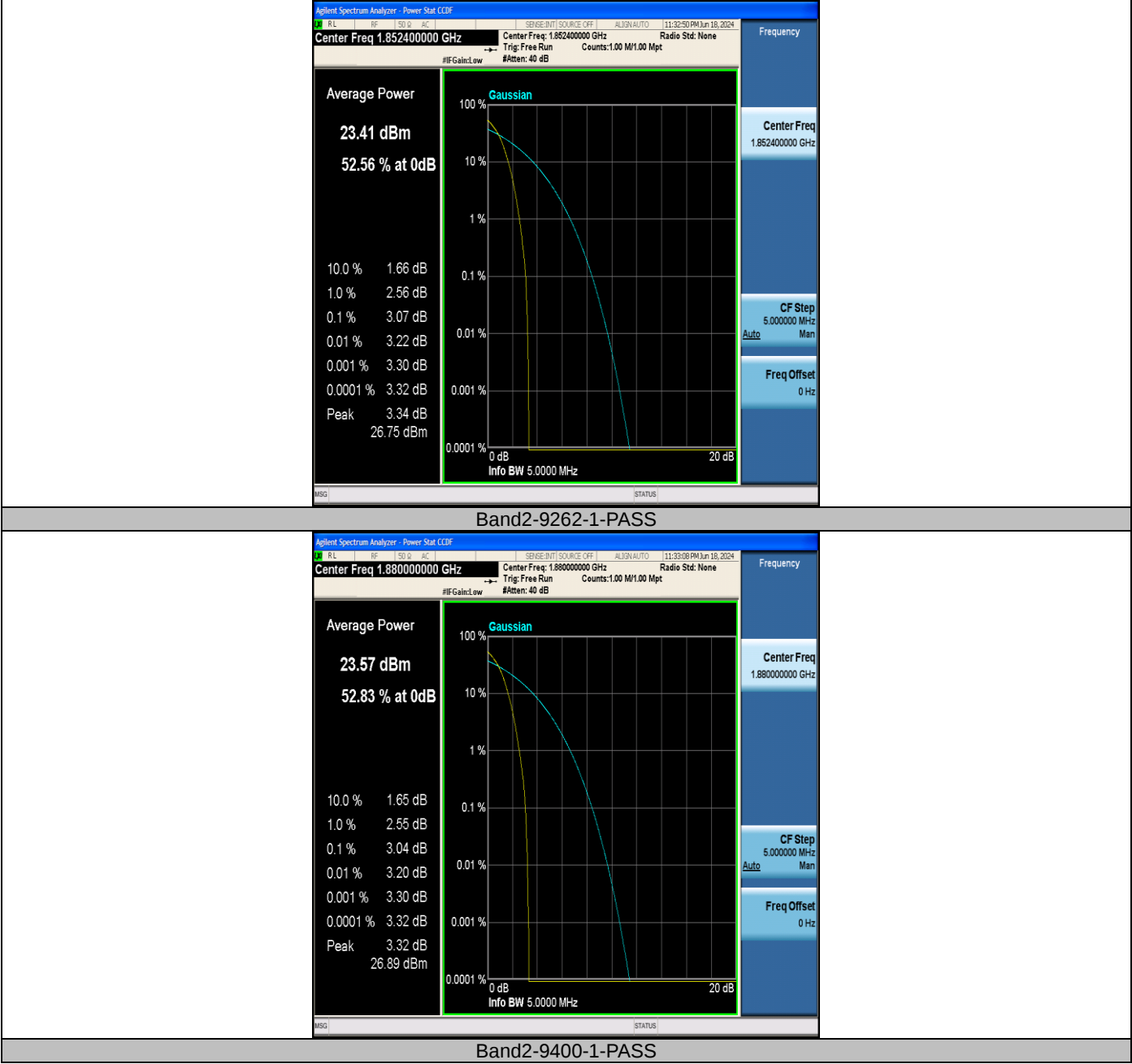
Band5-4132-PASS



Band5-4182-PASS



Test Graphs(HSDPA)

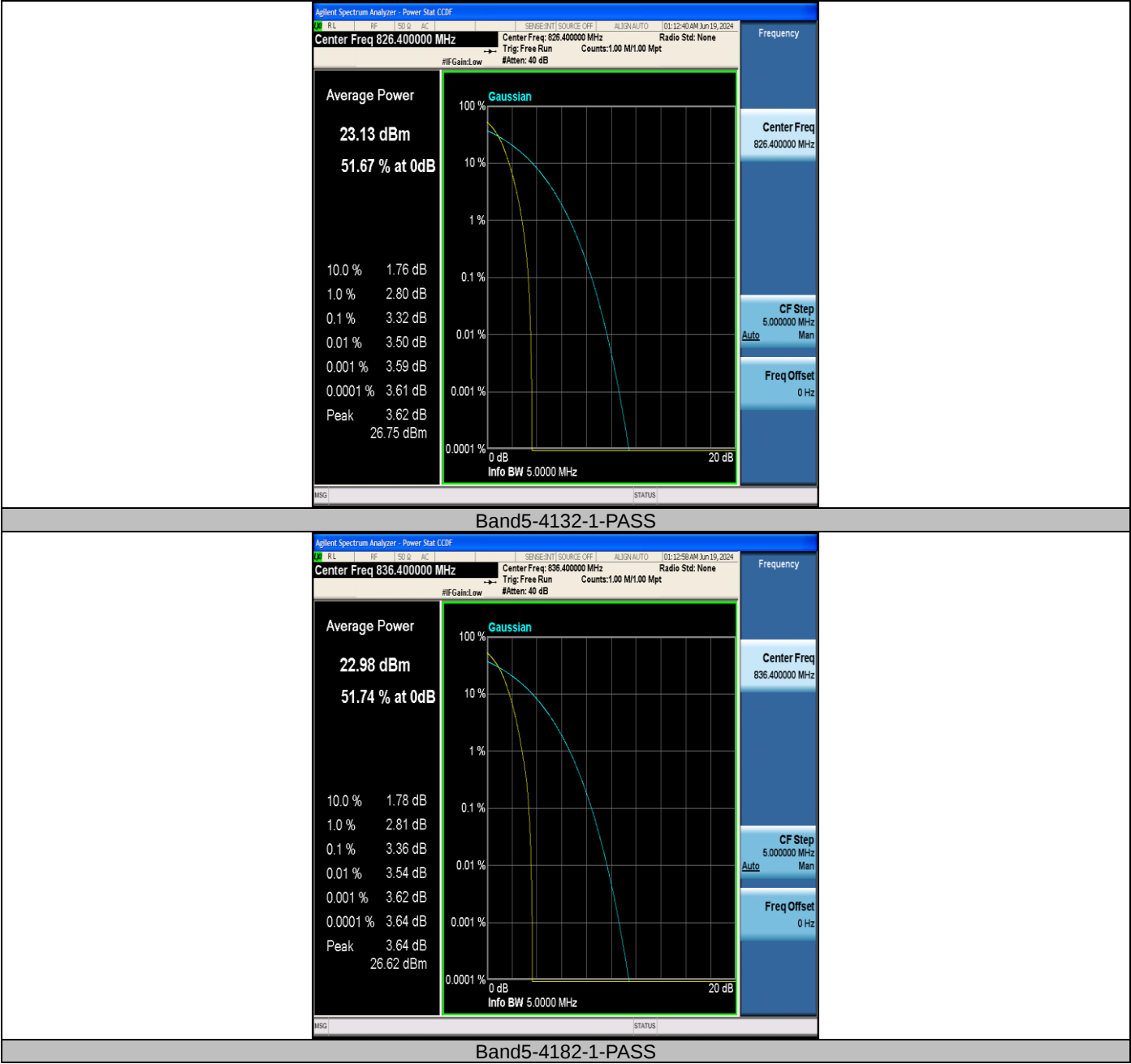




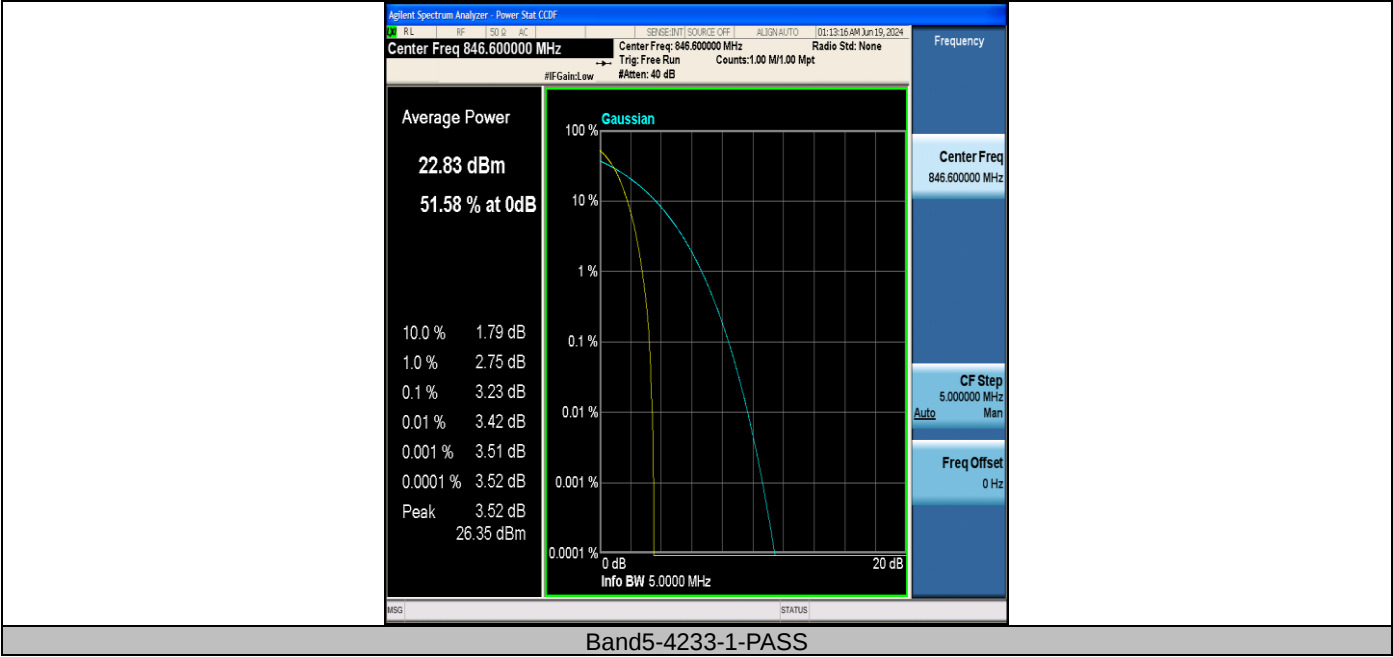
Band4-1312-1-PASS



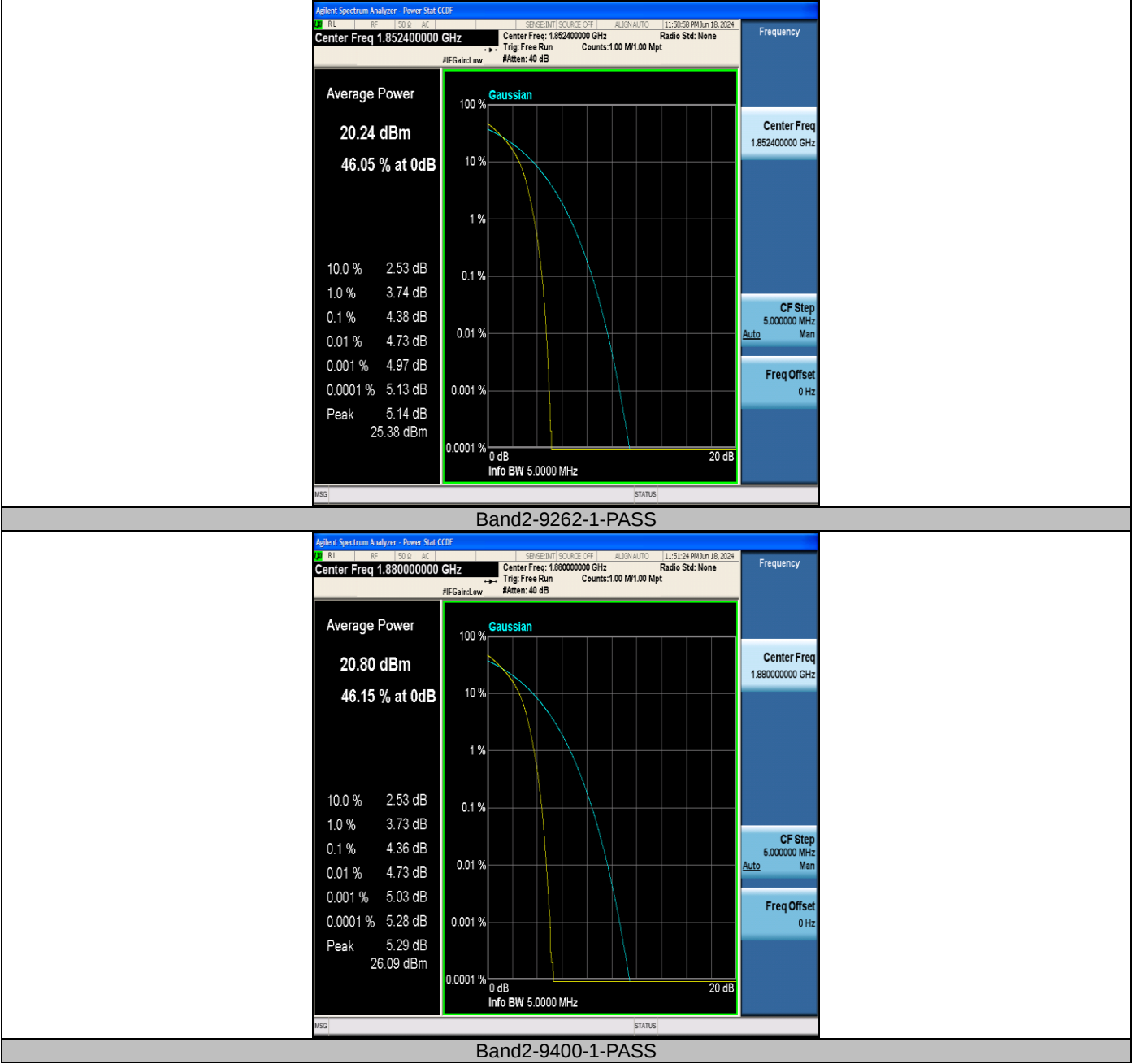
Band4-1513-1-PASS



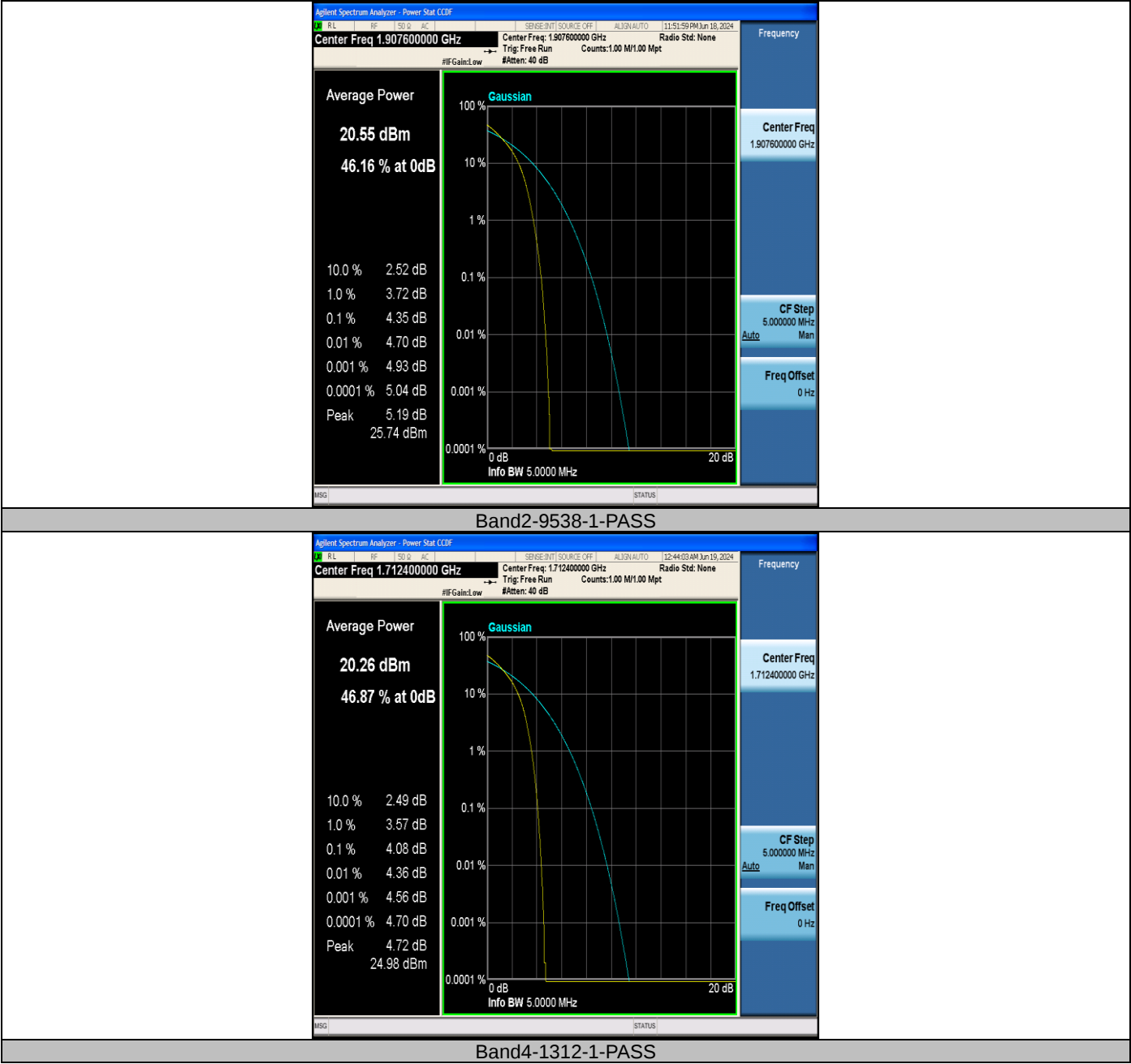
Band5-4182-1-PASS

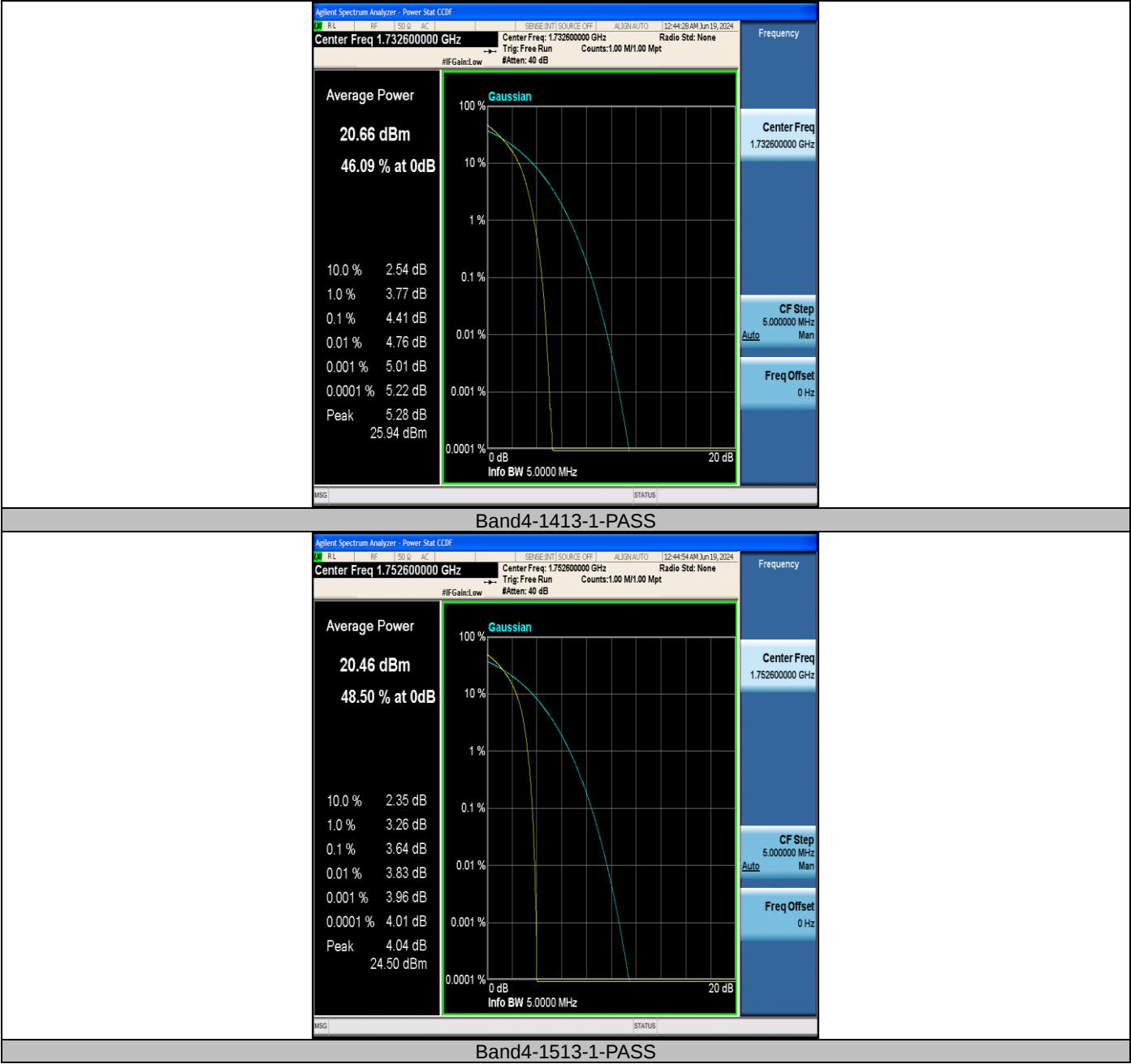


Test Graphs(HSUPA)

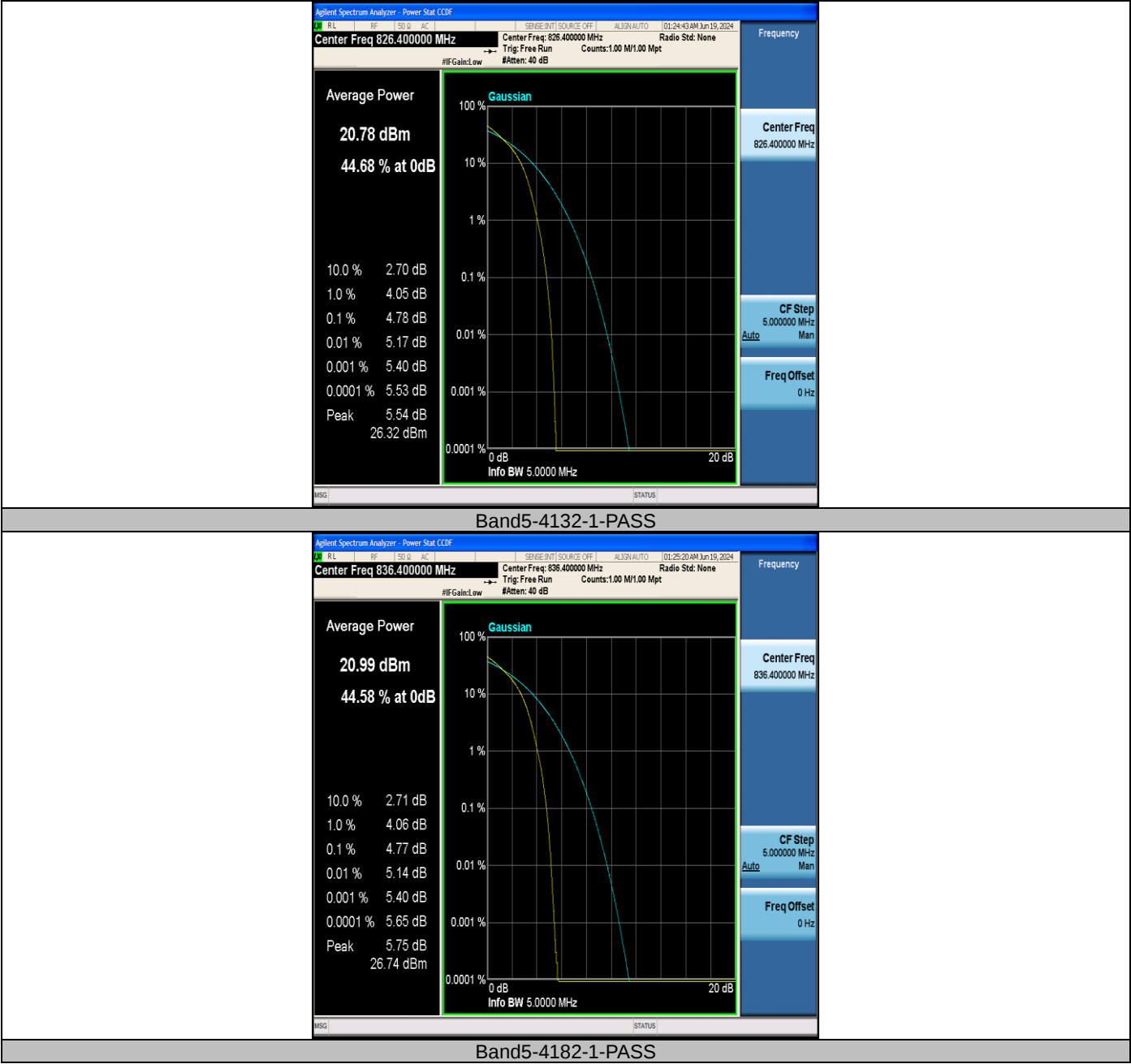


Band2-9400-1-PASS

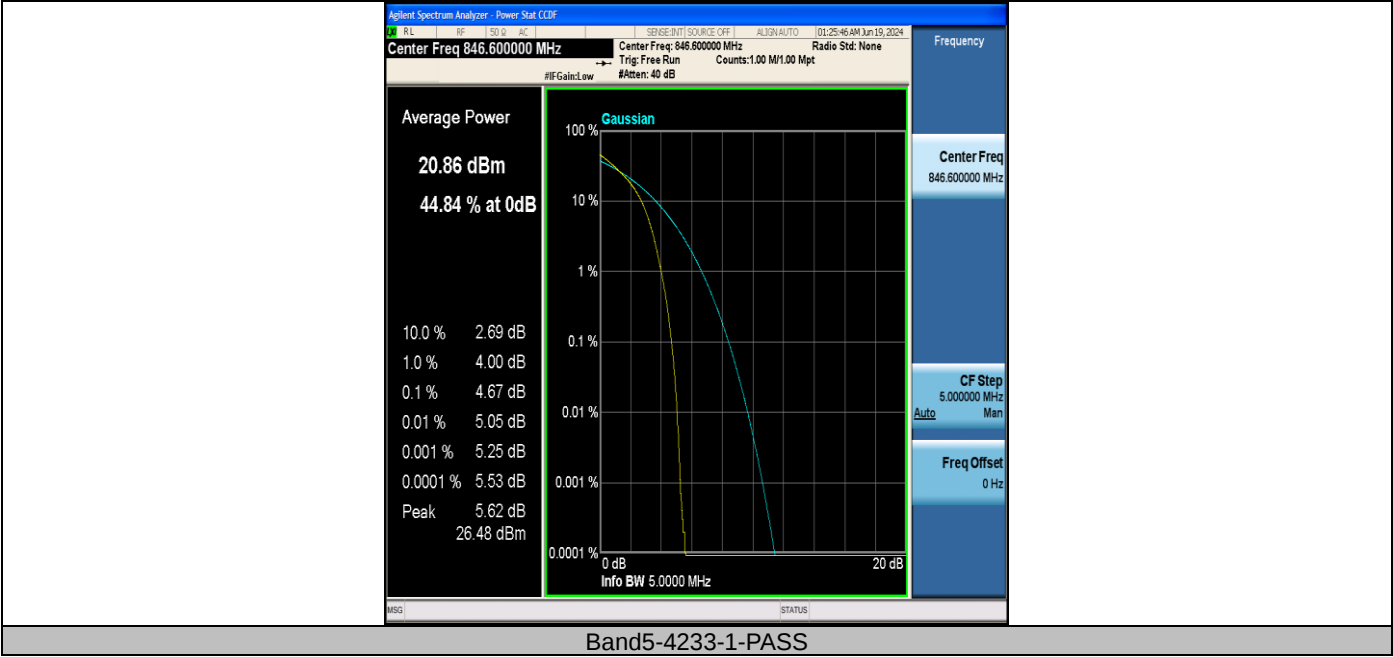




Band4-1513-1-PASS



Band5-4182-1-PASS



APPENDIX B2:26DB BANDWIDTH ANDOCCUPIED BANDWIDTH

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.1477	4.669	---	PASS
Band2	9400	4.1497	4.676	---	PASS
Band2	9538	4.1456	4.676	---	PASS
Band4	1312	4.1385	4.673	---	PASS
Band4	1413	4.1433	4.671	---	PASS
Band4	1513	4.1514	4.690	---	PASS
Band5	4132	4.1364	4.669	---	PASS
Band5	4182	4.1533	4.669	---	PASS
Band5	4233	4.1498	4.661	---	PASS

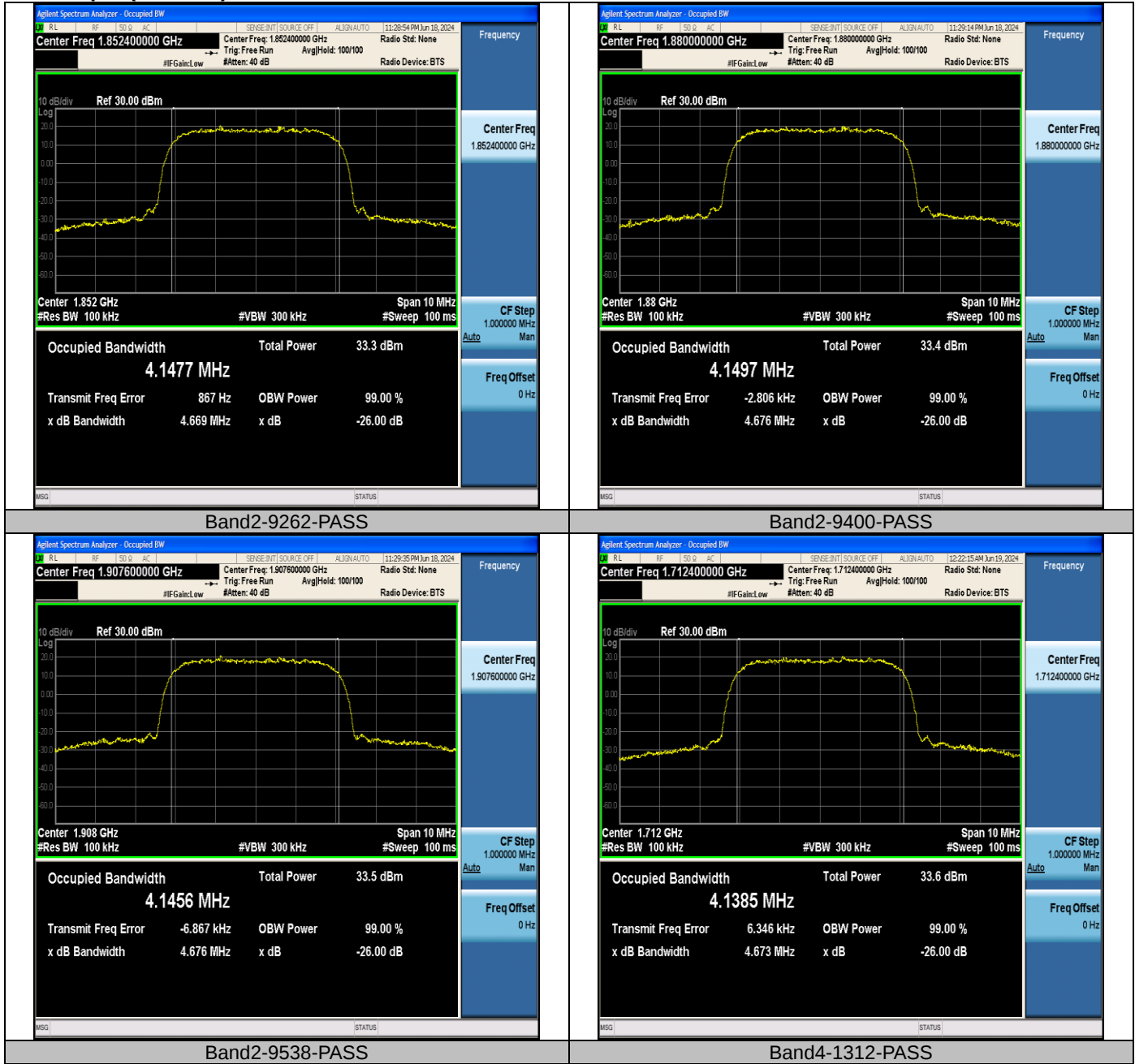
Test Result(HSDPA)

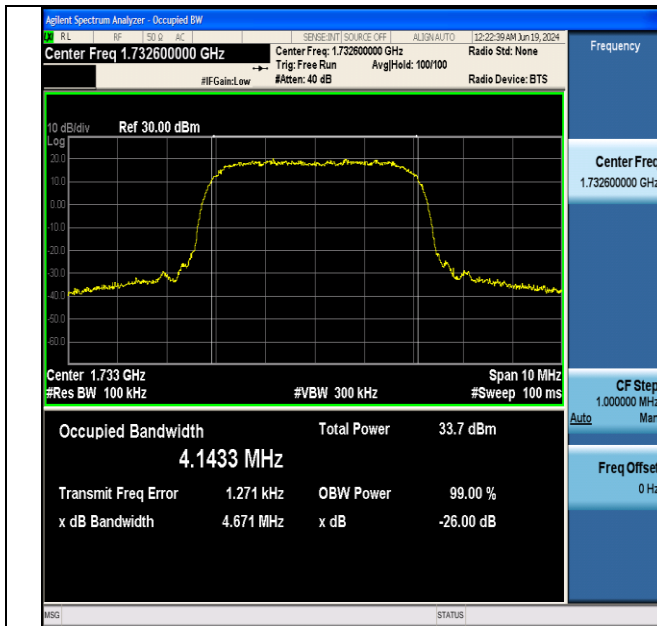
Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	1	4.1445	4.681	---	PASS
Band2	9400	1	4.1441	4.668	---	PASS
Band2	9538	1	4.1439	4.673	---	PASS
Band4	1312	1	4.1449	4.679	---	PASS
Band4	1413	1	4.1482	4.683	---	PASS
Band4	1513	1	4.1465	4.679	---	PASS
Band5	4132	1	4.1399	4.662	---	PASS
Band5	4182	1	4.1555	4.656	---	PASS
Band5	4233	1	4.1463	4.661	---	PASS

Test Result(HSUPA)

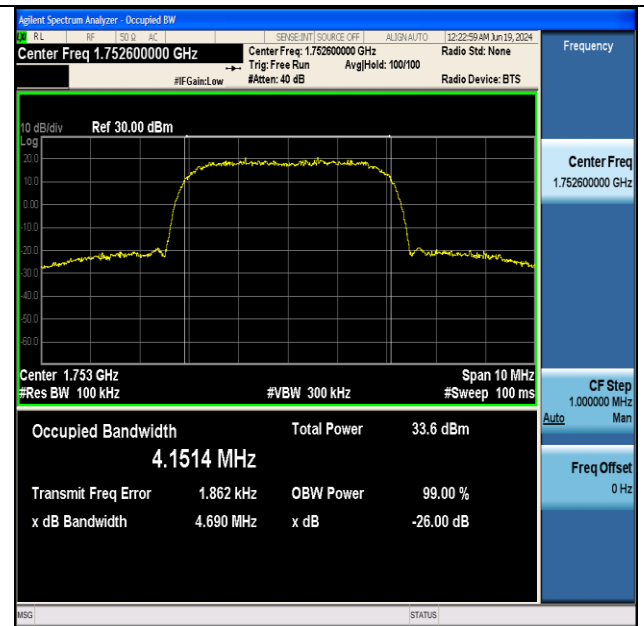
Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	1	4.1681	4.684	---	PASS
Band2	9400	1	4.1673	4.668	---	PASS
Band2	9538	1	4.1687	4.684	---	PASS
Band4	1312	1	4.1700	4.684	---	PASS
Band4	1413	1	4.1674	4.671	---	PASS
Band4	1513	1	4.1877	4.729	---	PASS
Band5	4132	1	4.1556	4.662	---	PASS
Band5	4182	1	4.1844	4.676	---	PASS
Band5	4233	1	4.1569	4.662	---	PASS

Test Graphs(WCDMA)





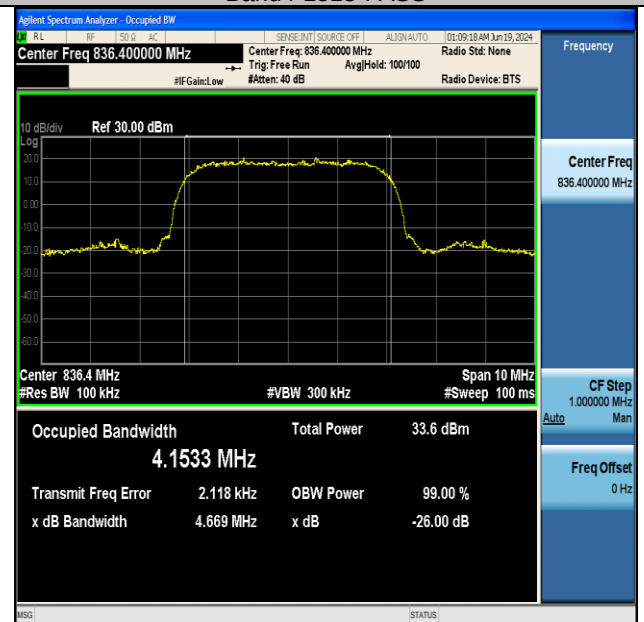
Band4-1413-PASS



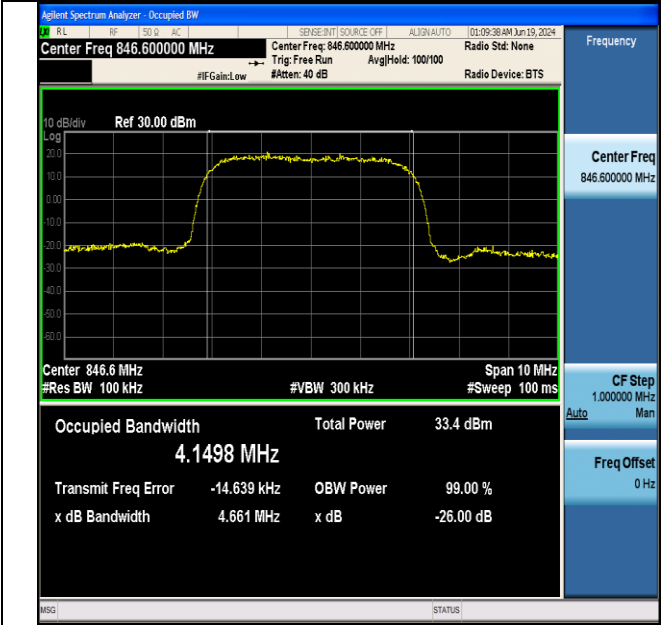
Band4-1513-PASS



Band5-4132-PASS



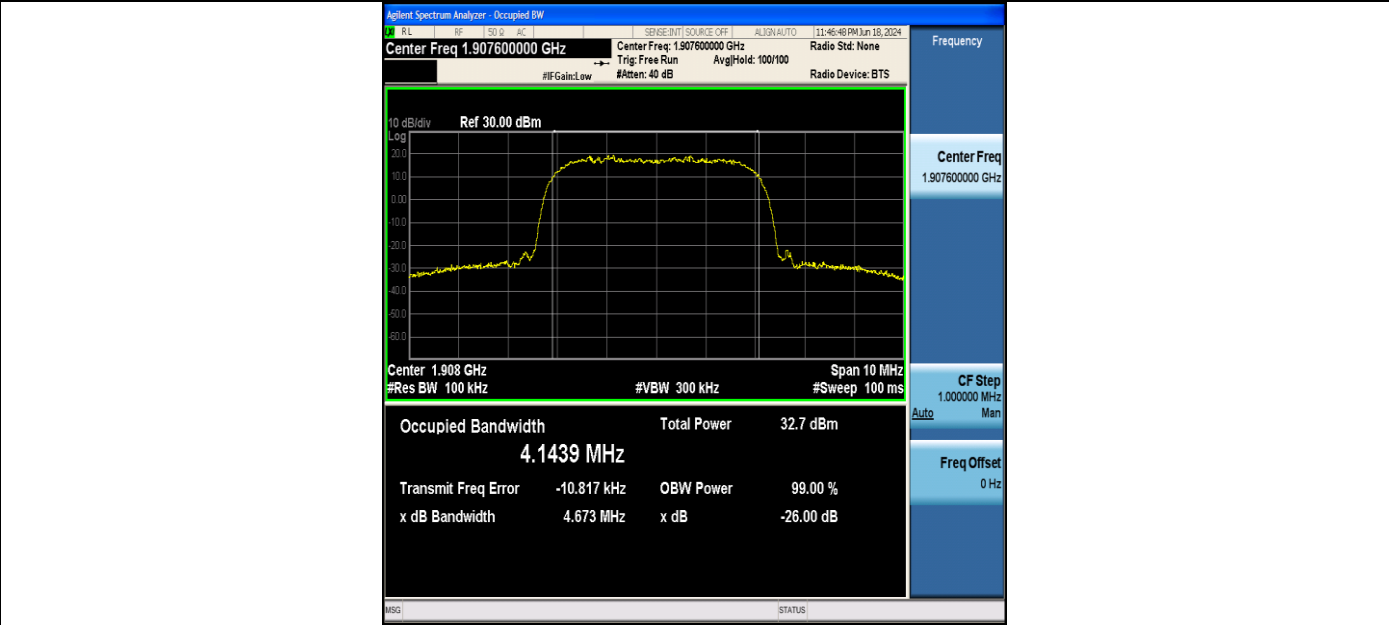
Band5-4182-PASS

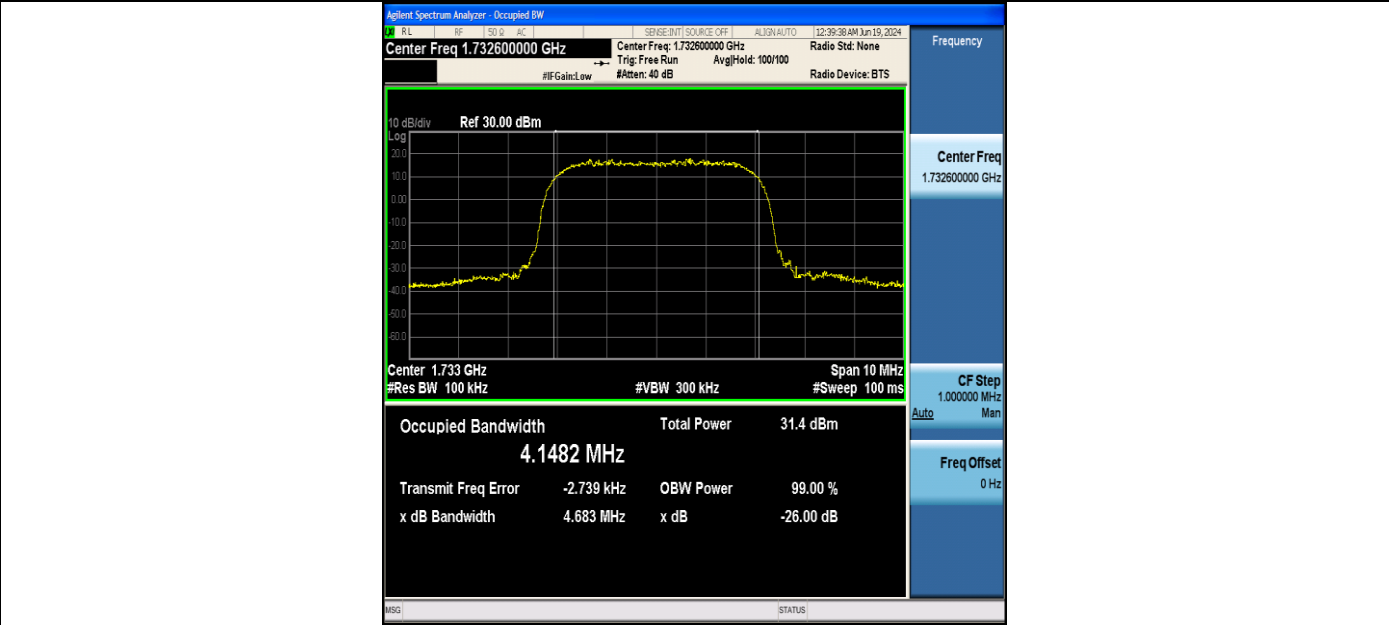


Band5-4233-PASS

Test Graphs(HSDPA)





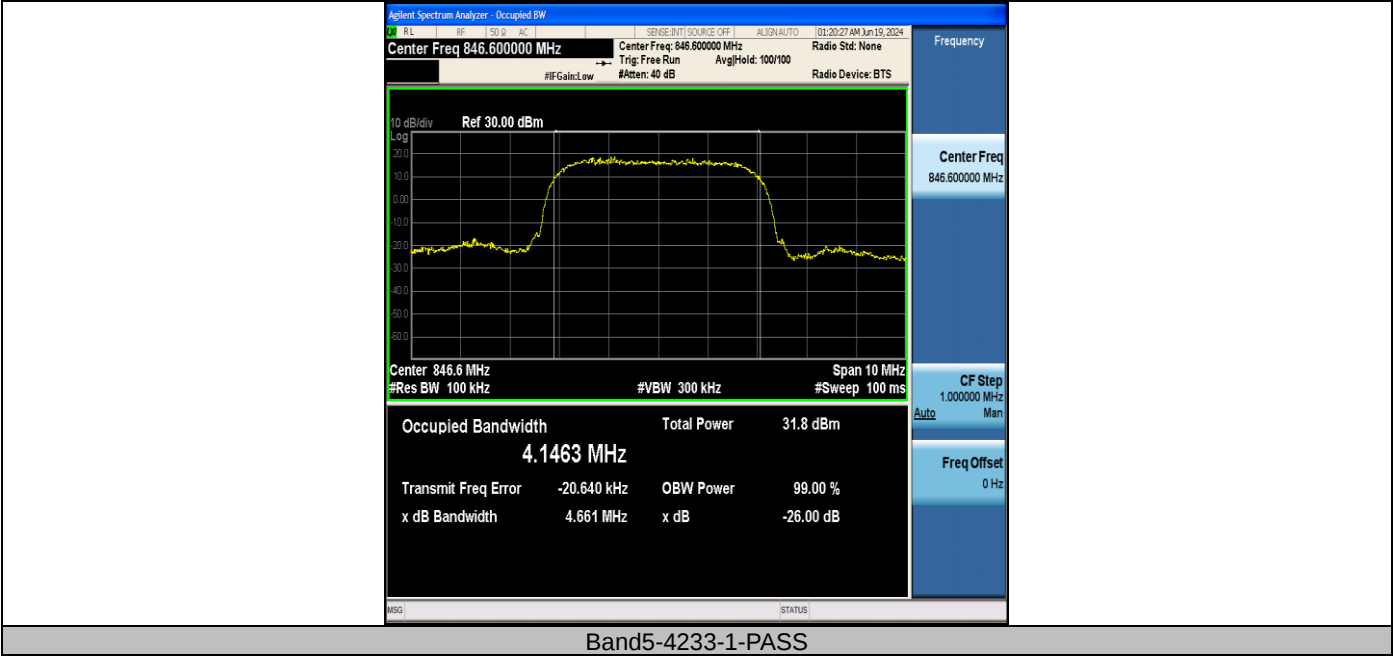




Band5-4132-1-PASS

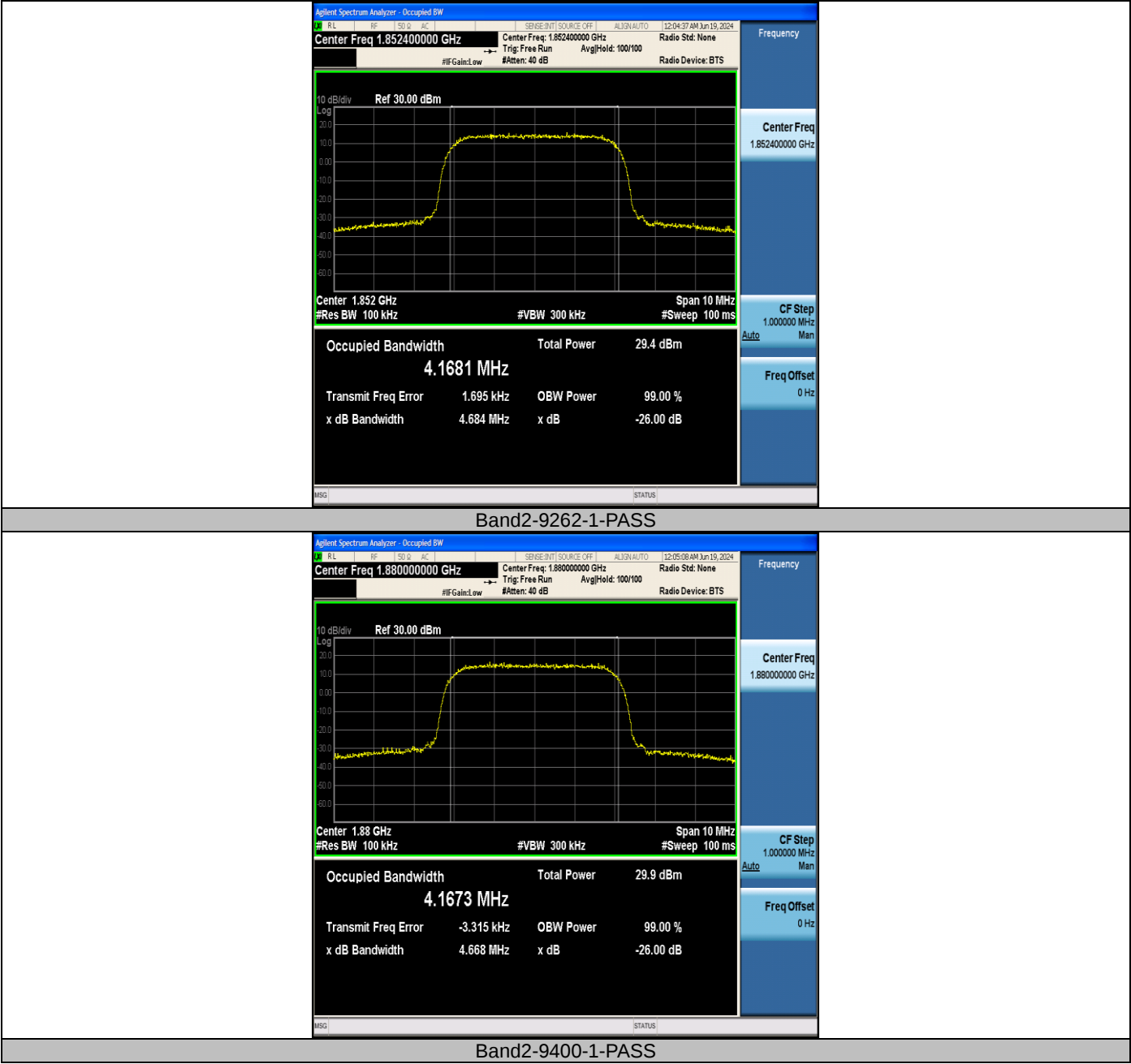


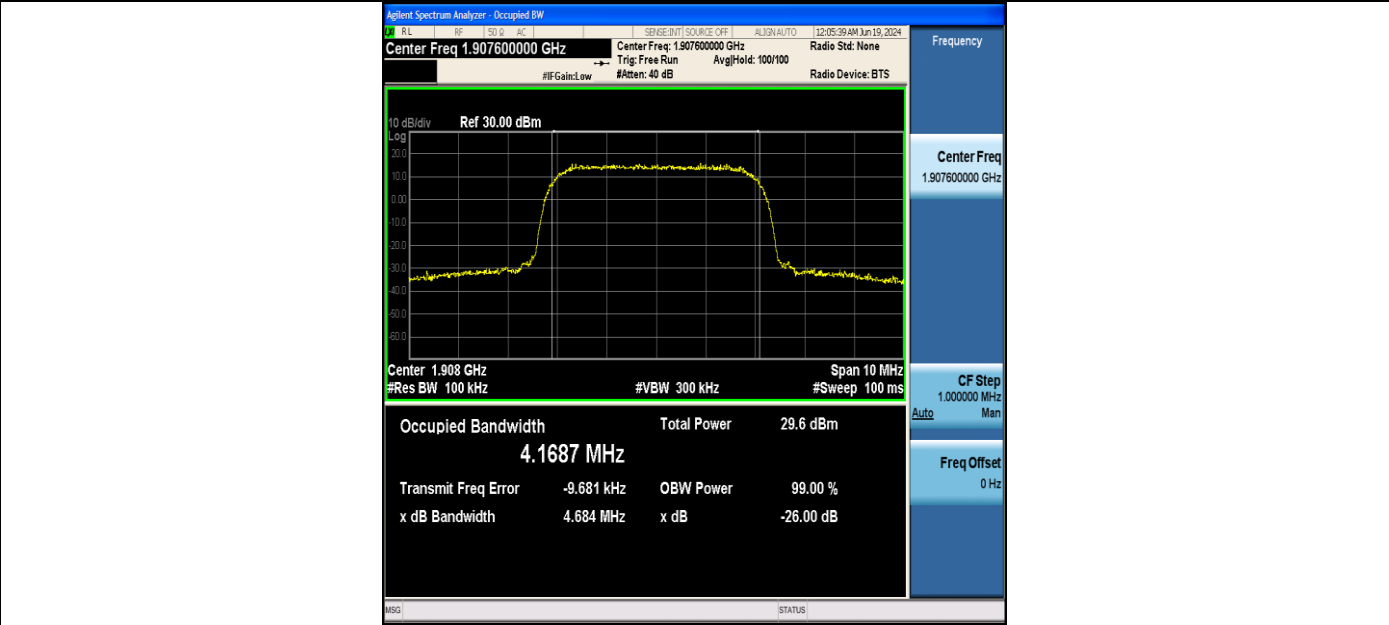
Band5-4182-1-PASS



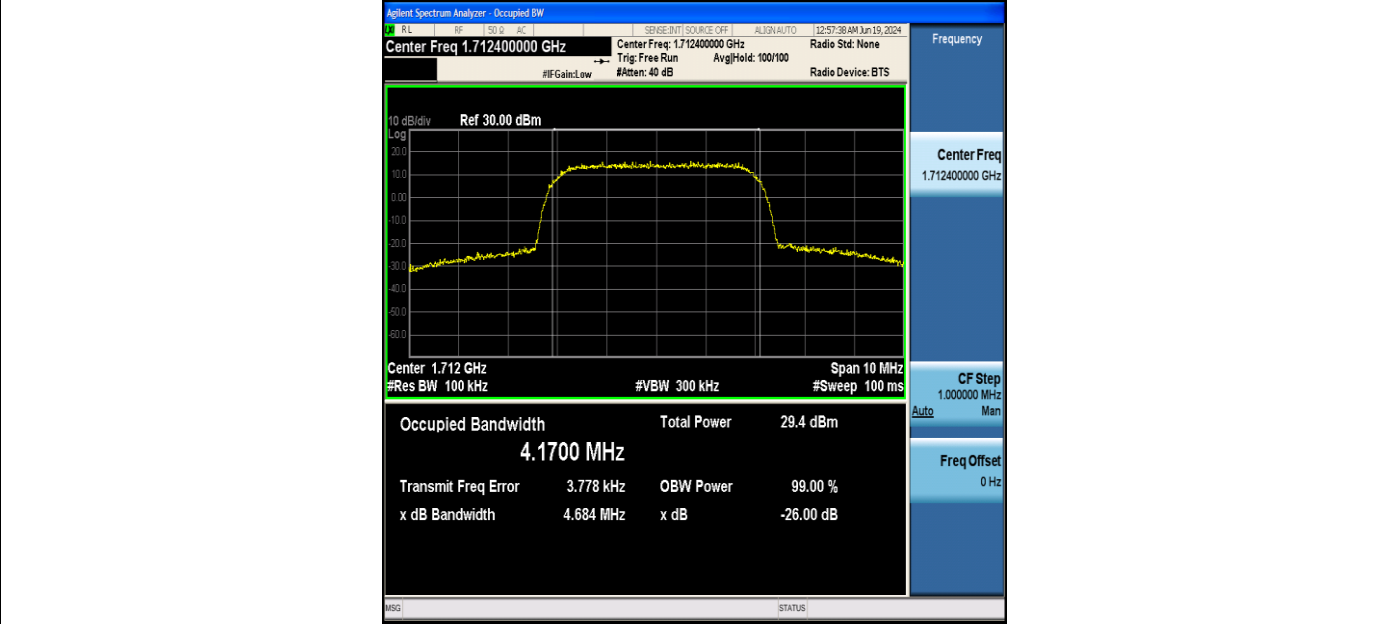
Band5-4233-1-PASS

Test Graphs(HSUPA)

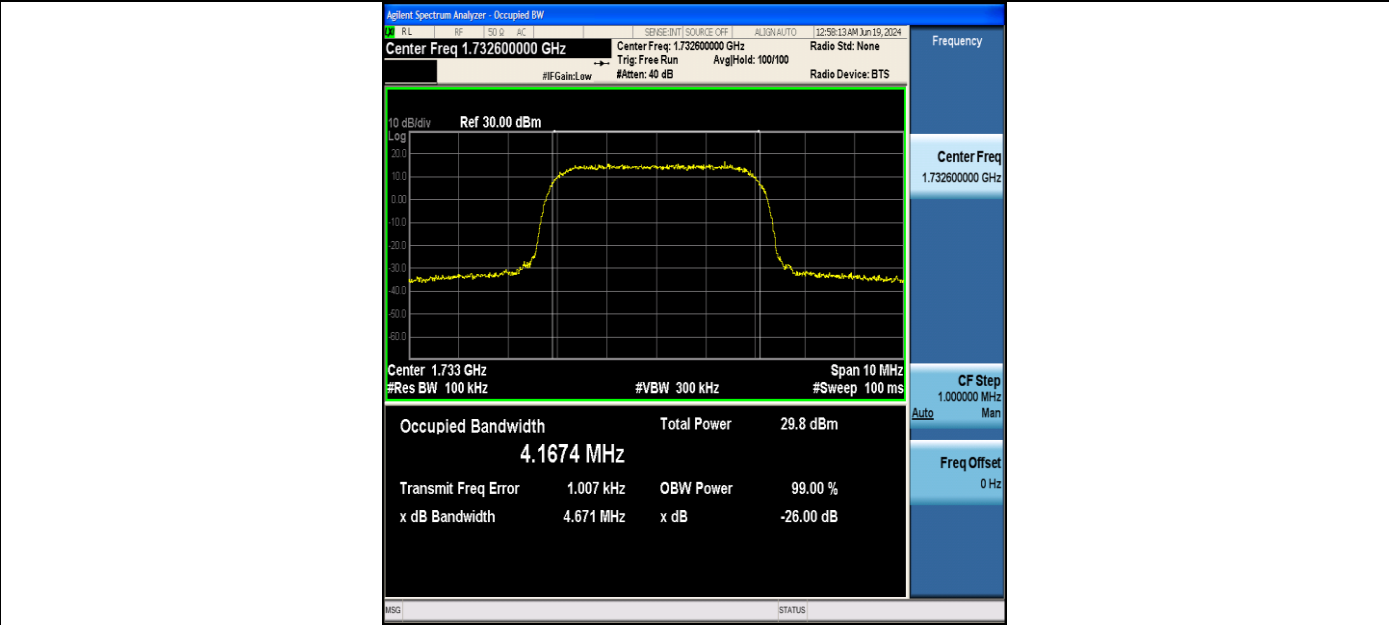




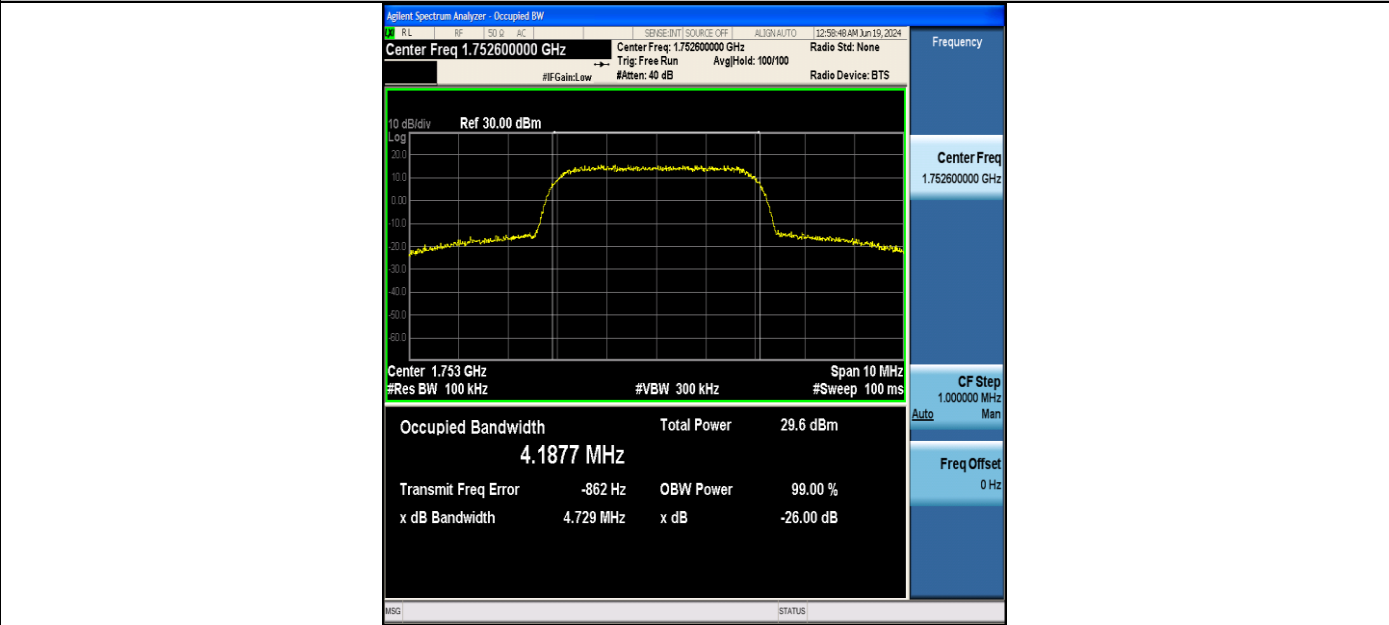
Band2-9538-1-PASS



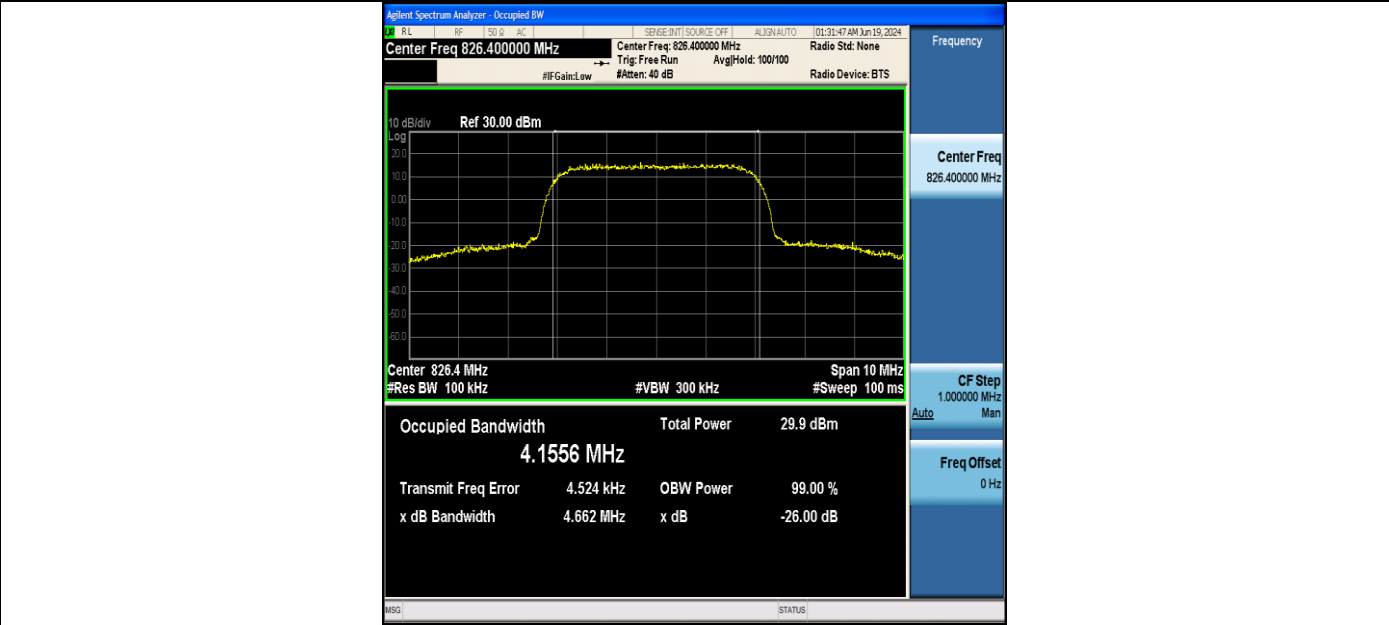
Band4-1312-1-PASS



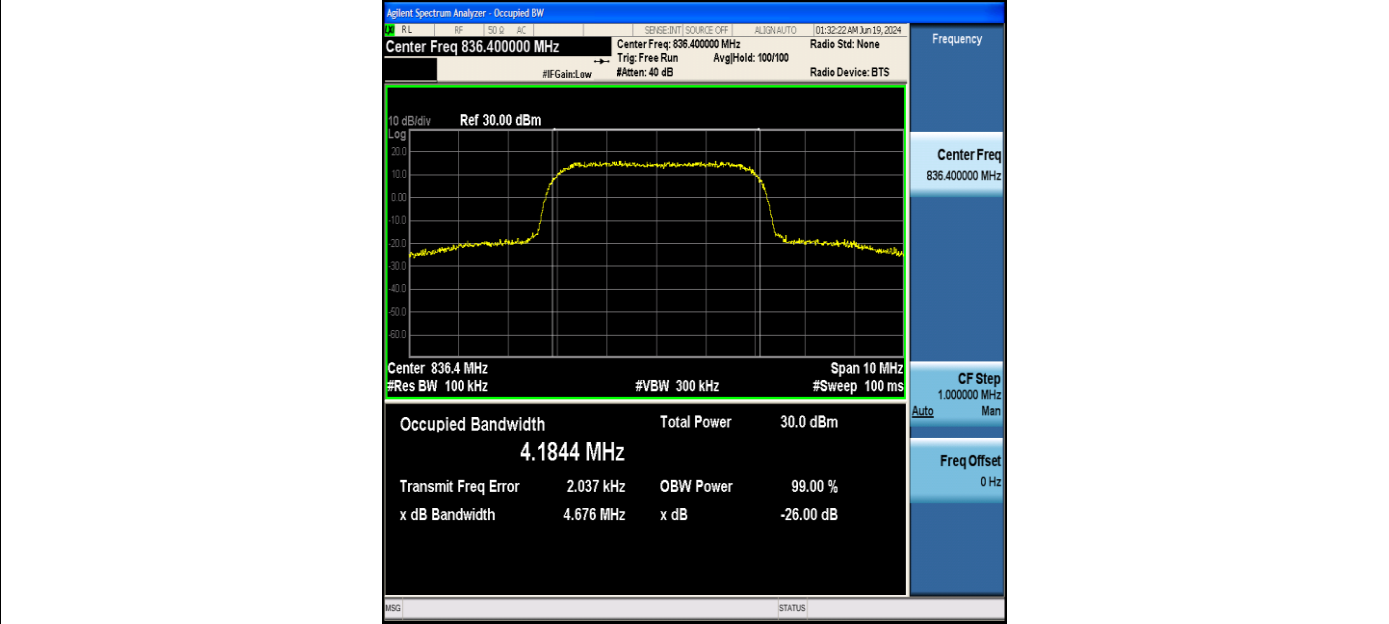
Band4-1413-1-PASS



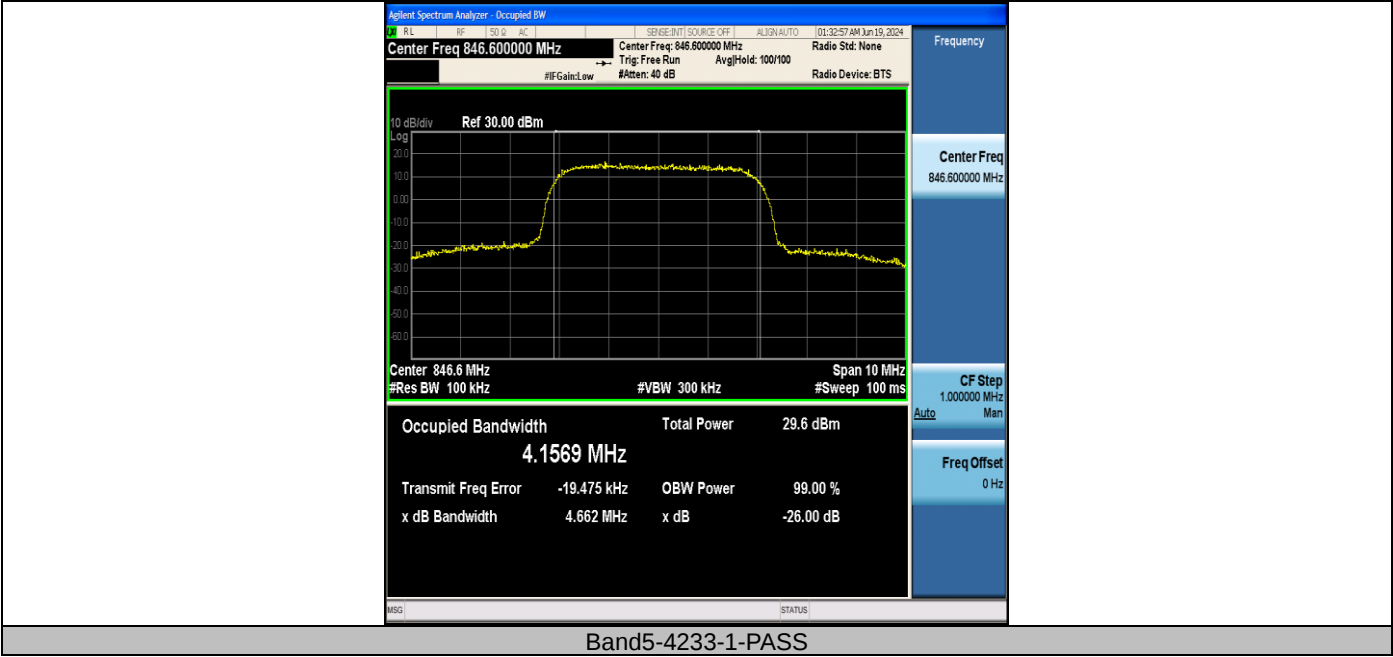
Band4-1513-1-PASS



Band5-4132-1-PASS



Band5-4182-1-PASS



Band5-4233-1-PASS

APPENDIX B3:BAND EDGE

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-32.88	-13	PASS
Band2	9538	1910.00	-30.77	-13	PASS
Band4	1312	1710.00	-32.24	-13	PASS
Band4	1513	1755.00	-28.53	-13	PASS
Band5	4132	823.95	-25.98	-13	PASS
Band5	4233	849.06	-30.17	-13	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1	1849.93	-33.72	-13	PASS
Band2	9538	1	1910.00	-33.09	-13	PASS
Band4	1312	1	1709.93	-33.50	-13	PASS
Band4	1513	1	1755.00	-34.95	-13	PASS
Band5	4132	1	823.92	-25.73	-13	PASS
Band5	4233	1	849.04	-27.83	-13	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1	1849.93	-36.66	-13	PASS
Band2	9538	1	1910.00	-36.85	-13	PASS
Band4	1312	1	1710.00	-33.80	-13	PASS
Band4	1513	1	1755.07	-35.98	-13	PASS
Band5	4132	1	823.93	-28.02	-13	PASS
Band5	4233	1	849.07	-29.97	-13	PASS

Test Graphs(WCDMA)



Band2-9262-PASS



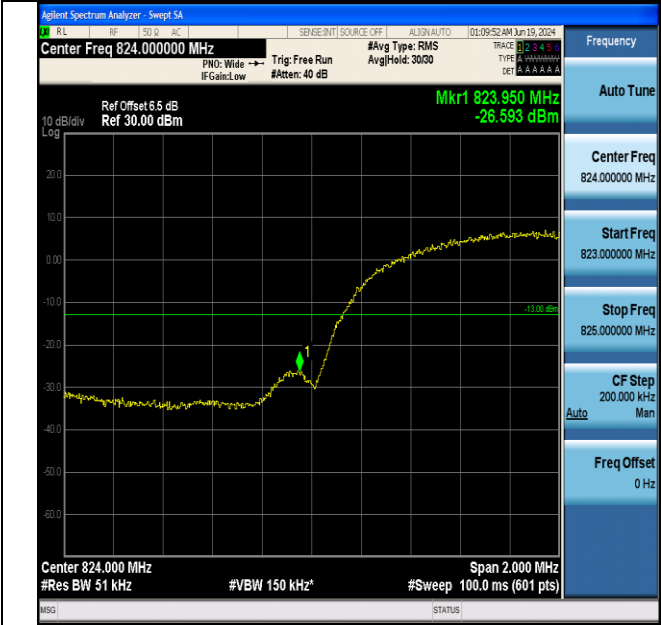
Band2-9538-PASS



Band4-1312-PASS



Band4-1513-PASS



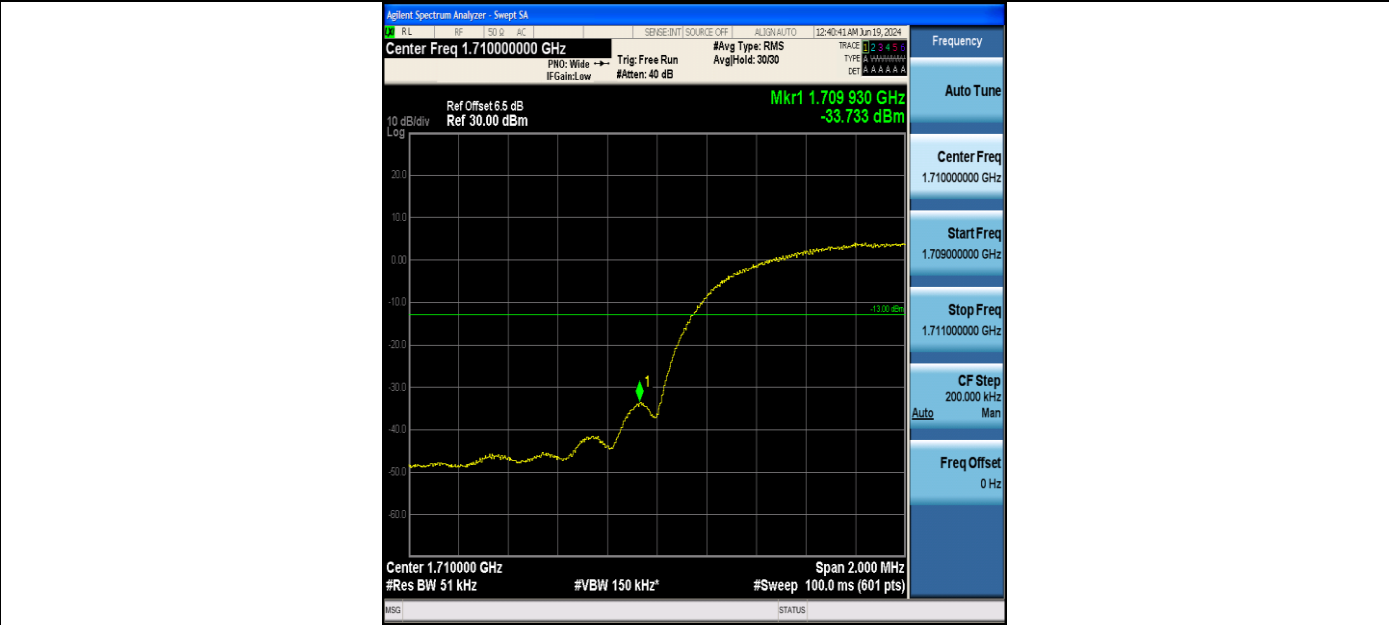
Band5-4132-PASS



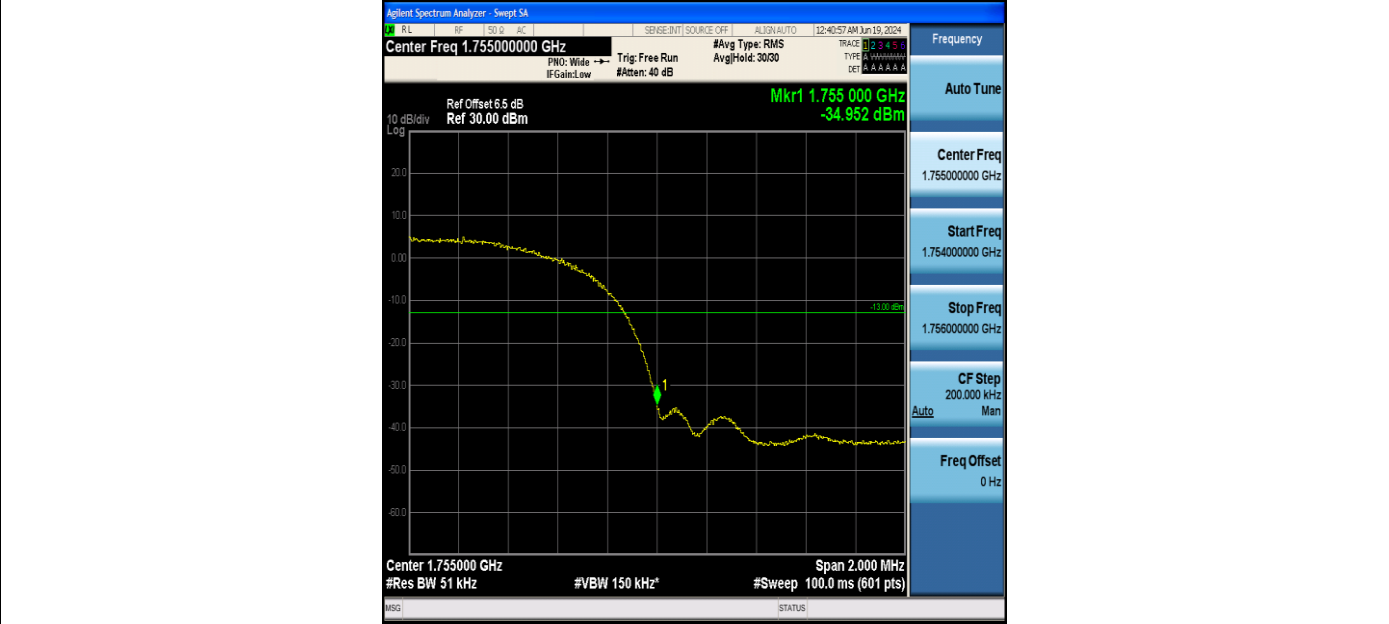
Band5-4233-PASS

Test Graphs(HSDPA)





Band4-1312-1-PASS



Band4-1513-1-PASS