

APPENDIX A WCDMA RF TEST DATA
A.1 PEAK-TO-AVERAGE RATIO

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	2.81	13	PASS
Band2	9400	2.88	13	PASS
Band2	9538	2.83	13	PASS
Band5	4132	2.97	13	PASS
Band5	4182	2.96	13	PASS
Band5	4233	2.91	13	PASS

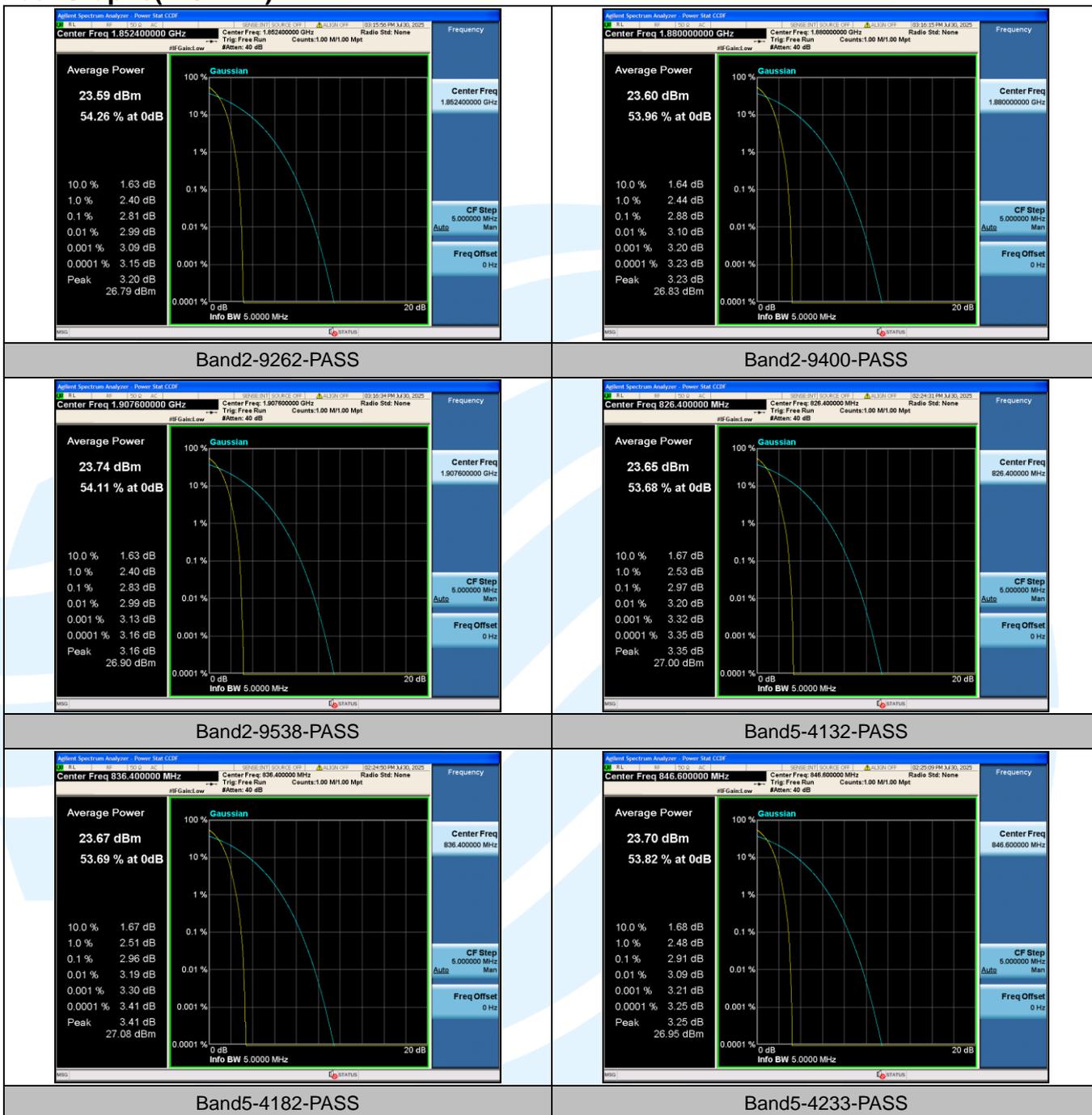
Test Result(HSDPA)

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	1	2.84	13	PASS
Band2	9400	1	2.98	13	PASS
Band2	9538	1	2.87	13	PASS
Band5	4132	1	3.11	13	PASS
Band5	4182	1	3.08	13	PASS
Band5	4233	1	3.04	13	PASS

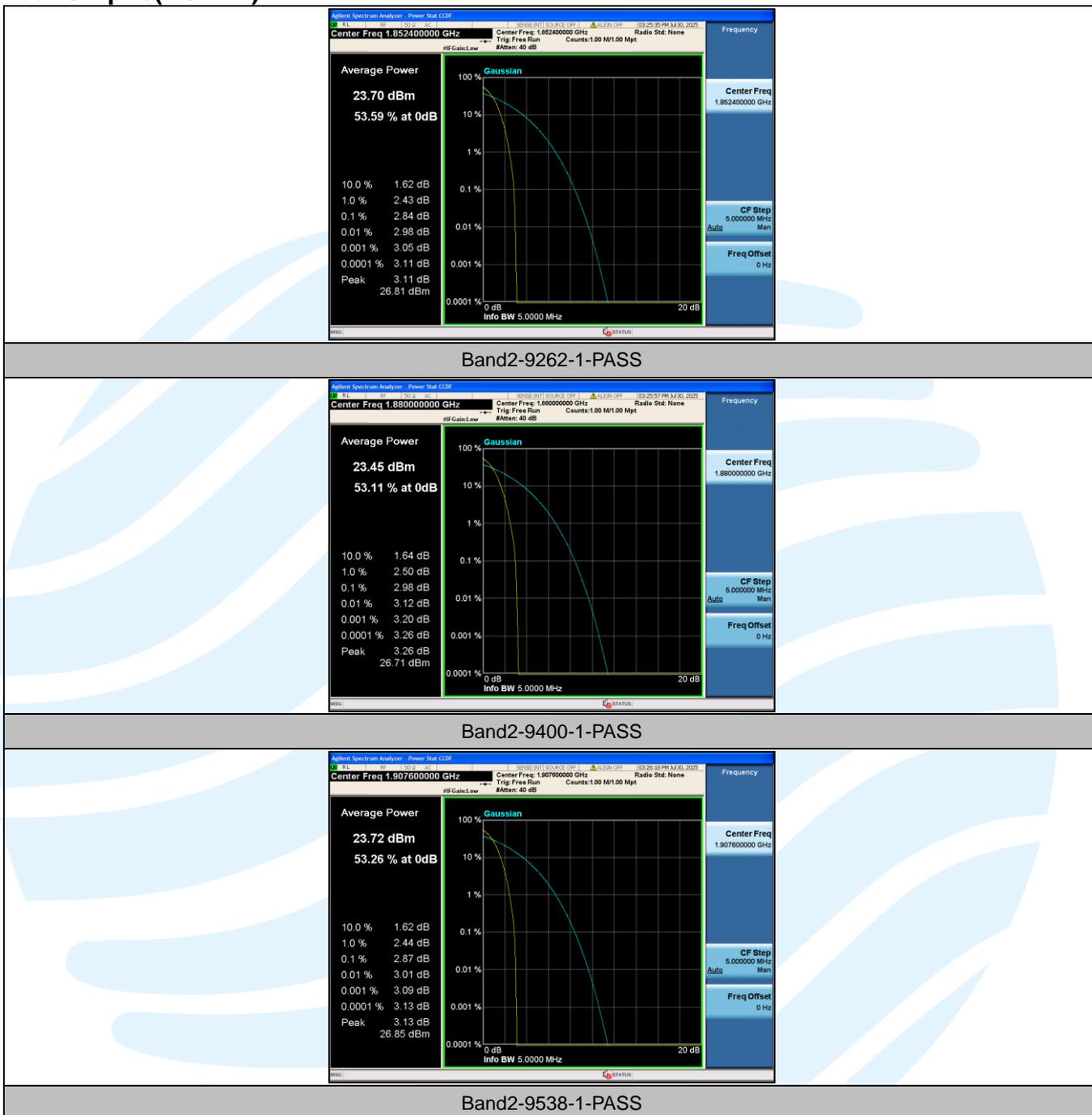
Test Result(HSUPA)

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	1	4.28	13	PASS
Band2	9400	1	4.38	13	PASS
Band2	9538	1	4.36	13	PASS
Band5	4132	1	4.4	13	PASS
Band5	4182	1	4.39	13	PASS
Band5	4233	1	4.43	13	PASS

Test Graphs(WCDMA)



Test Graphs(HSDPA)





Band5-4132-1-PASS



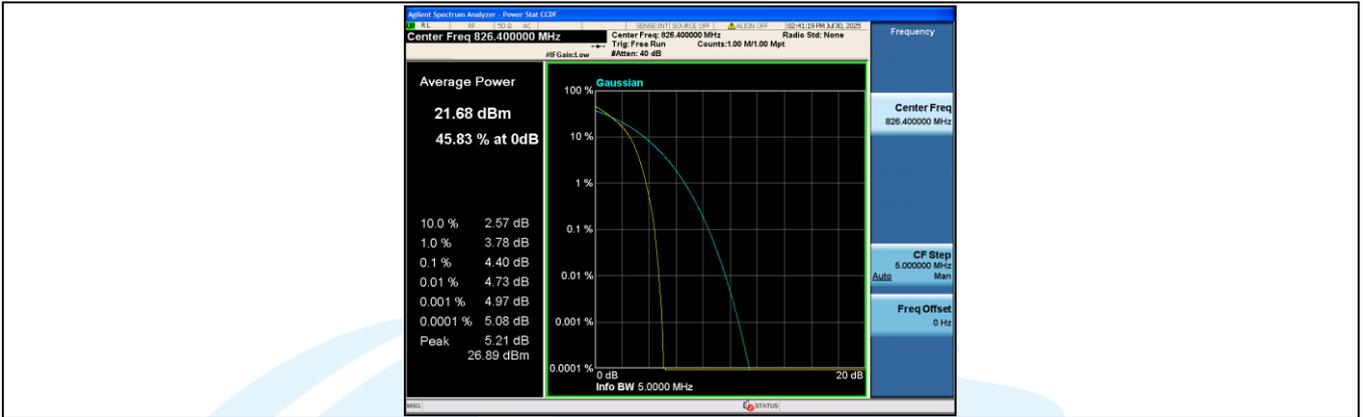
Band5-4182-1-PASS



Band5-4233-1-PASS

Test Graphs(HSUPPA)





Band5-4132-1-PASS



Band5-4182-1-PASS



Band5-4233-1-PASS

A.2 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.1422	4.673	---	PASS
Band2	9400	4.1522	4.676	---	PASS
Band2	9538	4.1398	4.668	---	PASS
Band5	4132	4.1419	4.672	---	PASS
Band5	4182	4.1481	4.669	---	PASS
Band5	4233	4.1486	4.670	---	PASS

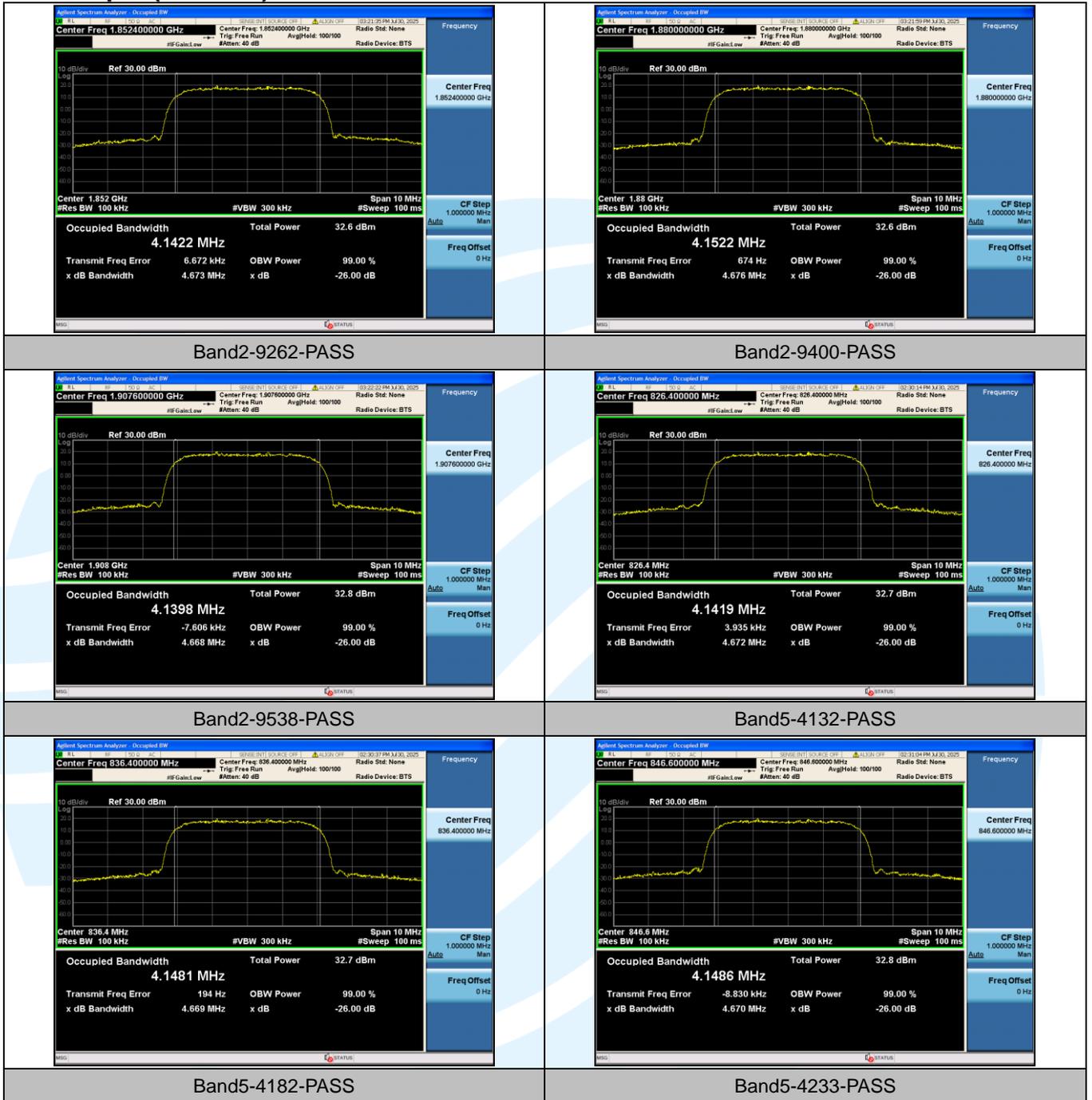
Test Result(HSDPA)

Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	1	4.1477	4.682	---	PASS
Band2	9400	1	4.1415	4.674	---	PASS
Band2	9538	1	4.1451	4.681	---	PASS
Band5	4132	1	4.1401	4.656	---	PASS
Band5	4182	1	4.1442	4.673	---	PASS
Band5	4233	1	4.1443	4.669	---	PASS

Test Result(HSUPA)

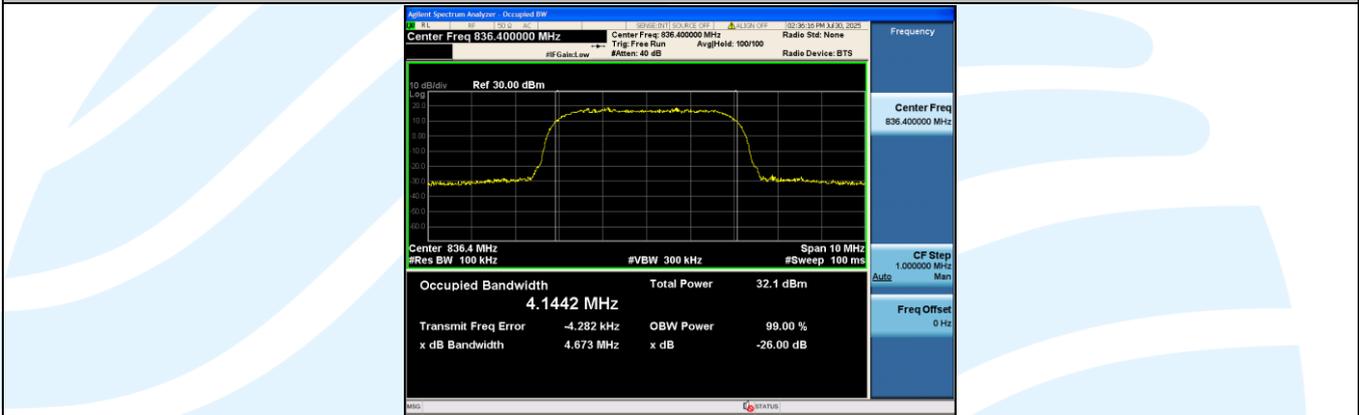
Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	1	4.1663	4.674	---	PASS
Band2	9400	1	4.1612	4.682	---	PASS
Band2	9538	1	4.1588	4.676	---	PASS
Band5	4132	1	4.1590	4.676	---	PASS
Band5	4182	1	4.1638	4.683	---	PASS
Band5	4233	1	4.1672	4.674	---	PASS

Test Graphs(WCDMA)





Band5-4132-1-PASS

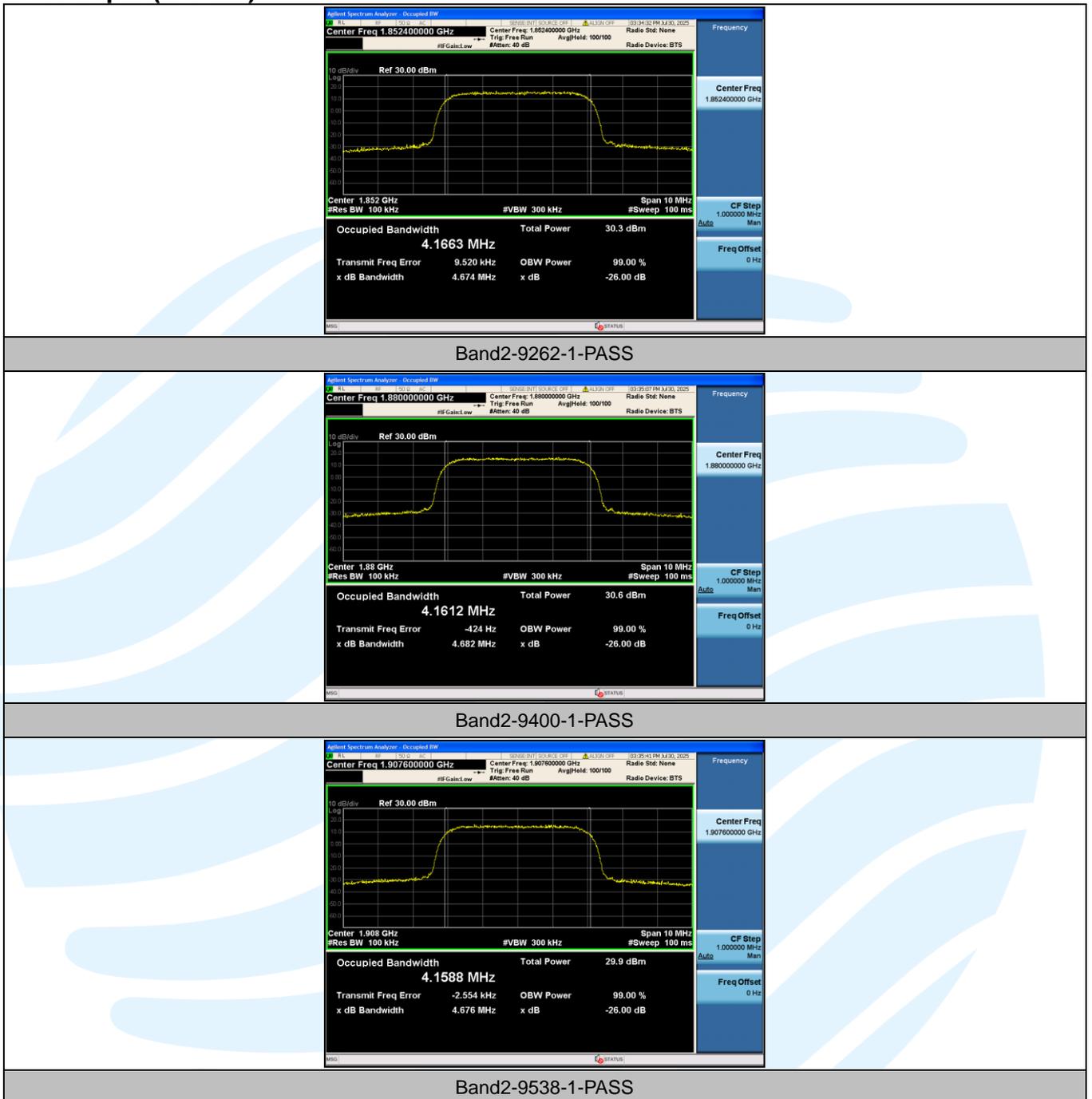


Band5-4182-1-PASS



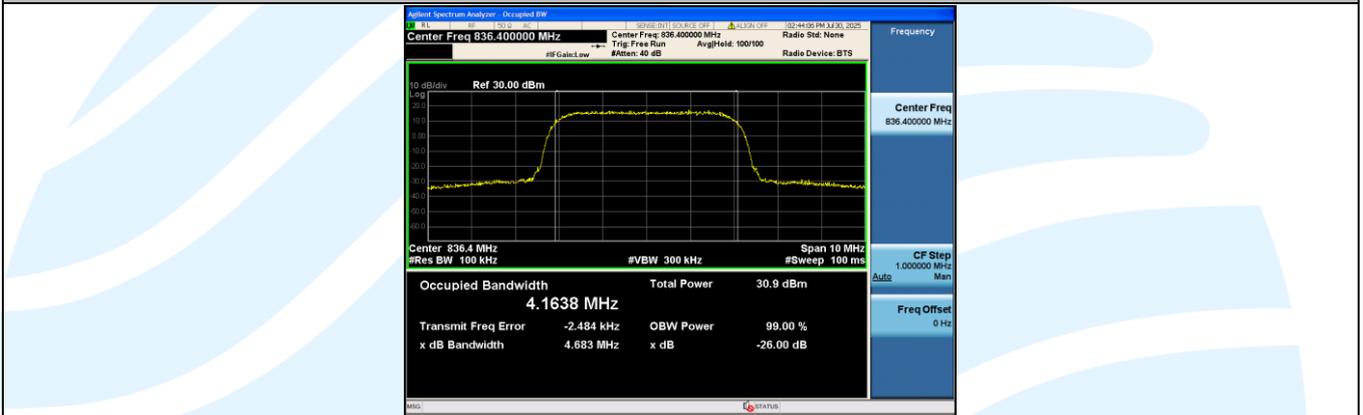
Band5-4233-1-PASS

Test Graphs(HSUPPA)





Band5-4132-1-PASS



Band5-4182-1-PASS



Band5-4233-1-PASS

A.3 BAND EDGE

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	1850.00	-31.66	-13	PASS
Band2	9538	1910.00	-32.28	-13	PASS
Band5	4132	823.95	-33.21	-13	PASS
Band5	4233	849.00	-32.31	-13	PASS

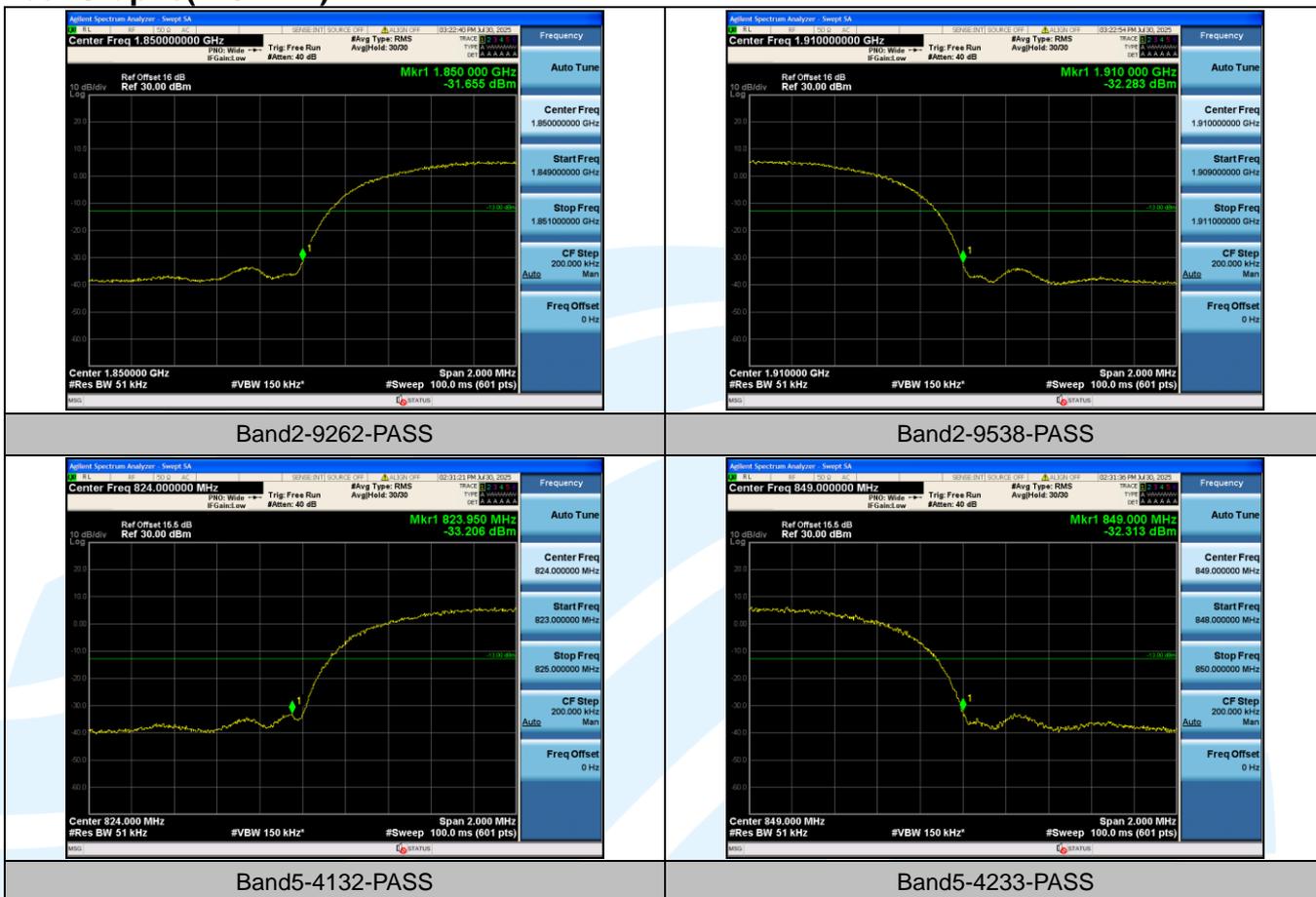
Test Result(HSDPA)

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	1	1850.00	-31.55	-13	PASS
Band2	9538	1	1910.00	-31.63	-13	PASS
Band5	4132	1	823.92	-31.20	-13	PASS
Band5	4233	1	849.07	-31.49	-13	PASS

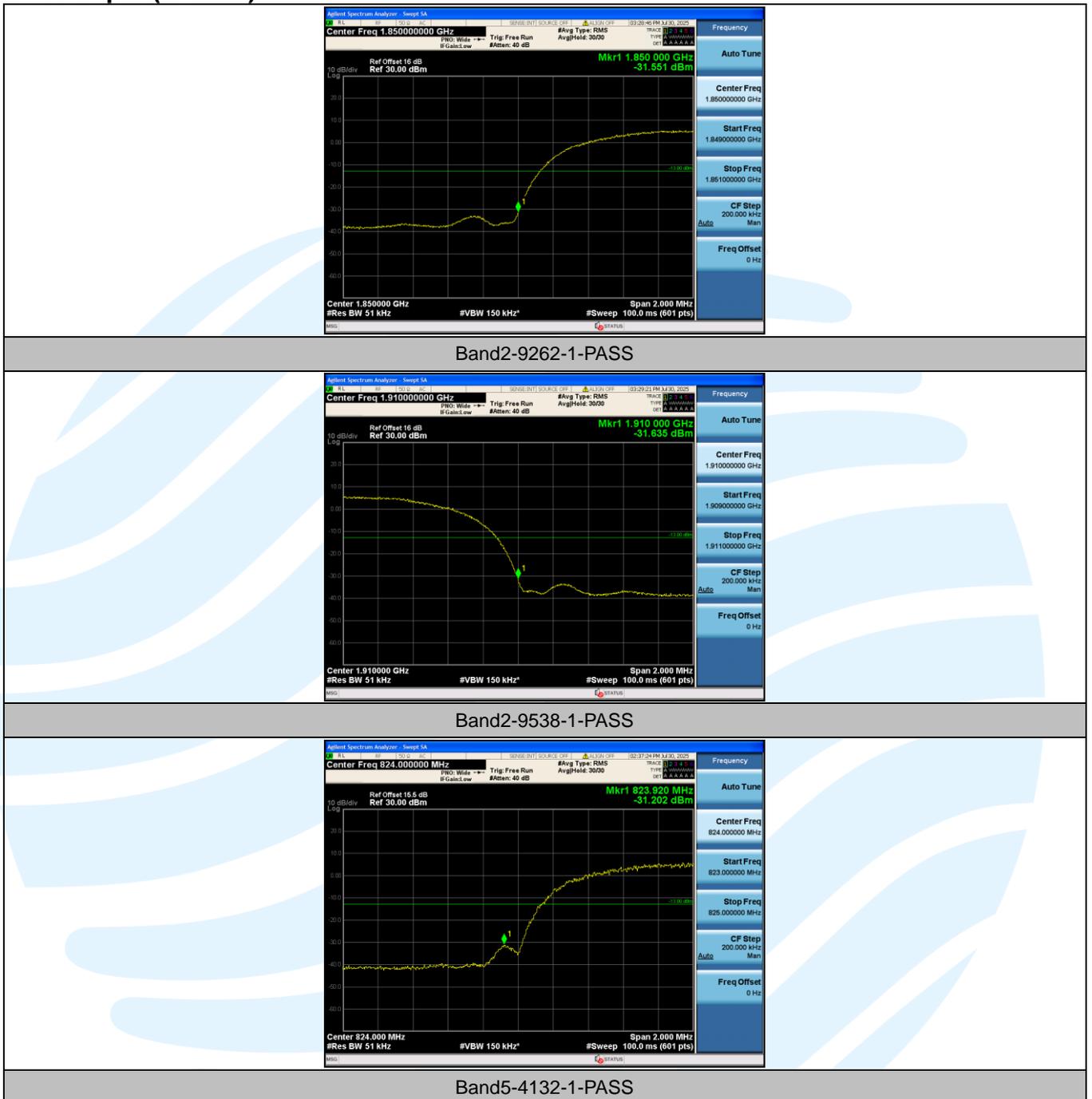
Test Result(HSUPA)

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	1	1849.92	-35.93	-13	PASS
Band2	9538	1	1910.08	-35.81	-13	PASS
Band5	4132	1	823.92	-33.45	-13	PASS
Band5	4233	1	849.06	-33.17	-13	PASS

Test Graphs(WCDMA)



Test Graphs(HSDPA)





Test Graphs(HSUPA)





A.4 CONDUCTED SPURIOUSEMISSION

Test Result(WCDMA)

Band	Channel	Frequency Range (MHz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	30~1000MHz	836.56	-34.44	-13	PASS
Band2	9262	1000~20000MHz	19500.3	-26.72	-13	PASS
Band2	9400	30~1000MHz	904.46	-34.93	-13	PASS
Band2	9400	1000~20000MHz	19035.28	-27.04	-13	PASS
Band2	9538	30~1000MHz	891.85	-34.74	-13	PASS
Band2	9538	1000~20000MHz	16488.8	-27.6	-13	PASS
Band5	4132	30~1000MHz	938.41	-44.13	-13	PASS
Band5	4132	1000~10000MHz	5925.25	-31.91	-13	PASS
Band5	4182	30~1000MHz	968.96	-45.86	-13	PASS
Band5	4182	1000~10000MHz	6016.6	-32.41	-13	PASS
Band5	4233	30~1000MHz	454.38	-46.09	-13	PASS
Band5	4233	1000~10000MHz	6321.25	-32.31	-13	PASS

Test Result(HSDPA)

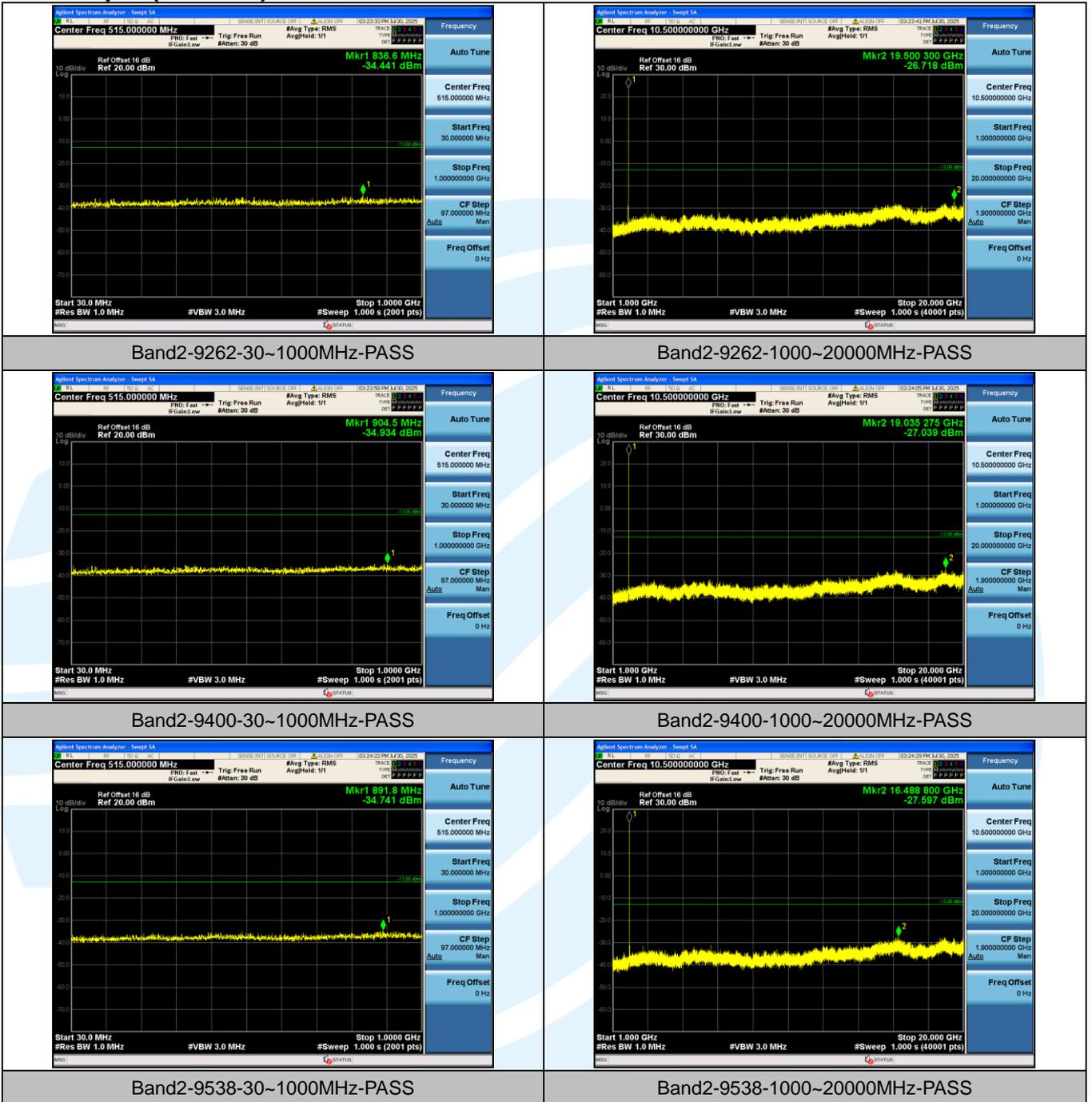
Band	Channel	SubTest	Frequency Range (MHz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	1	30~1000MHz	932.1	-34.23	-13	PASS
Band2	9262	1	1000~20000 MHz	19014.38	-27.5	-13	PASS
Band2	9400	1	30~1000MHz	937.92	-34.51	-13	PASS
Band2	9400	1	1000~20000 MHz	16344.88	-26.63	-13	PASS
Band2	9538	1	30~1000MHz	880.21	-34.72	-13	PASS
Band2	9538	1	1000~20000 MHz	19020.08	-27.33	-13	PASS
Band5	4132	1	30~1000MHz	940.83	-46.22	-13	PASS
Band5	4132	1	1000~10000 MHz	2615.5	-32.33	-13	PASS
Band5	4182	1	30~1000MHz	406.36	-46.58	-13	PASS
Band5	4182	1	1000~10000 MHz	5927.95	-32.03	-13	PASS
Band5	4233	1	30~1000MHz	485.42	-45.95	-13	PASS
Band5	4233	1	1000~10000 MHz	5421.7	-31.9	-13	PASS

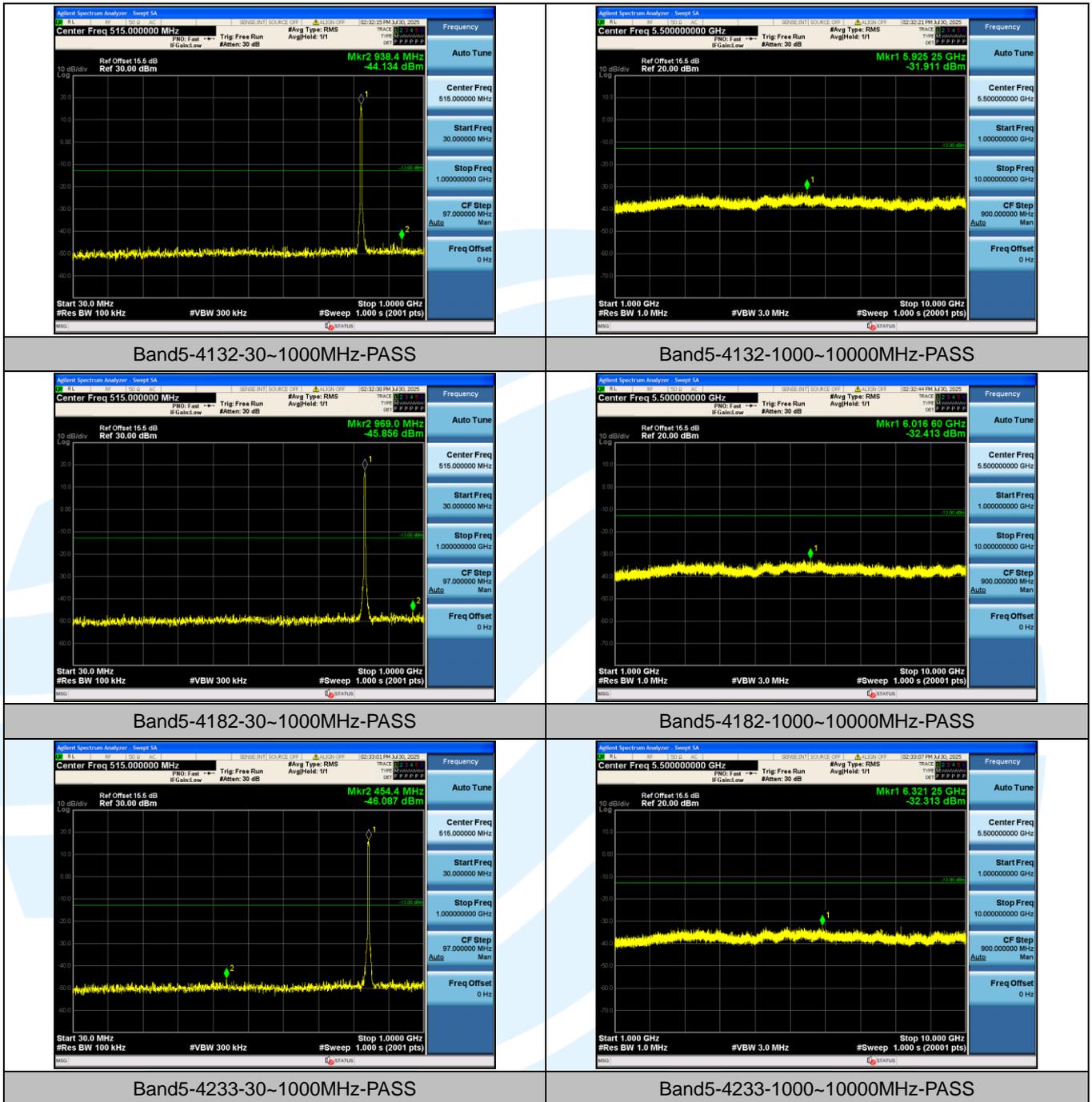
Test Result(HSUPA)

Band	Channel	SubTest	Frequency Range (MHz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	1	30~1000MHz	843.35	-34.56	-13	PASS
Band2	9262	1	1000~20000	16366.73	-27.29	-13	PASS

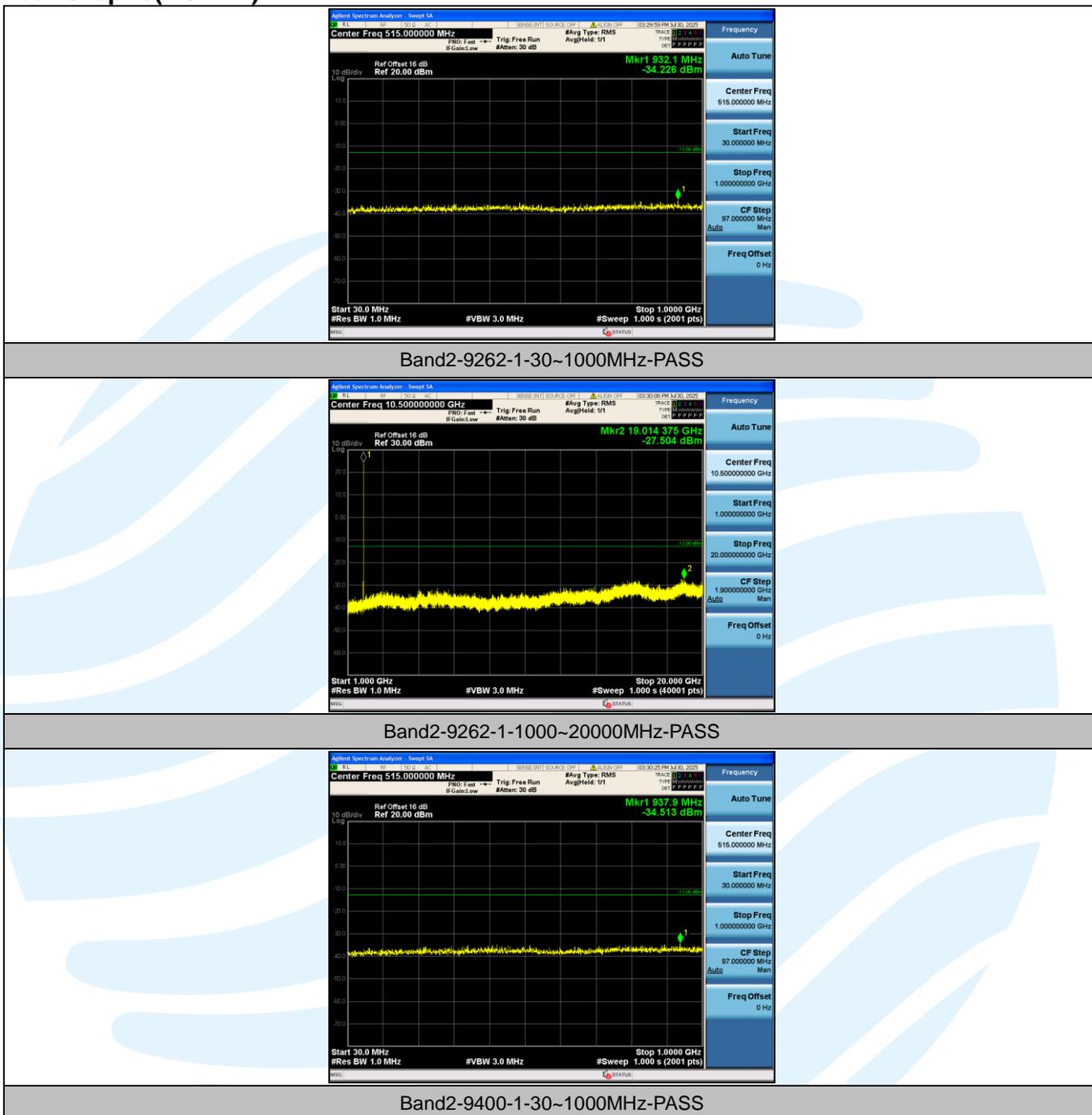
			MHz				
Band2	9400	1	30~1000MHz	903.97	-34.62	-13	PASS
Band2	9400	1	1000~20000 MHz	16607.08	-27.58	-13	PASS
Band2	9538	1	30~1000MHz	867.11	-34.57	-13	PASS
Band2	9538	1	1000~20000 MHz	18960.7	-27.24	-13	PASS
Band5	4132	1	30~1000MHz	932.59	-45.9	-13	PASS
Band5	4132	1	1000~10000 MHz	5432.5	-31.63	-13	PASS
Band5	4182	1	30~1000MHz	559.14	-46.42	-13	PASS
Band5	4182	1	1000~10000 MHz	6218.2	-31.78	-13	PASS
Band5	4233	1	30~1000MHz	961.2	-45.27	-13	PASS
Band5	4233	1	1000~10000 MHz	6278.5	-32.51	-13	PASS

Test Graphs(WCDMA)



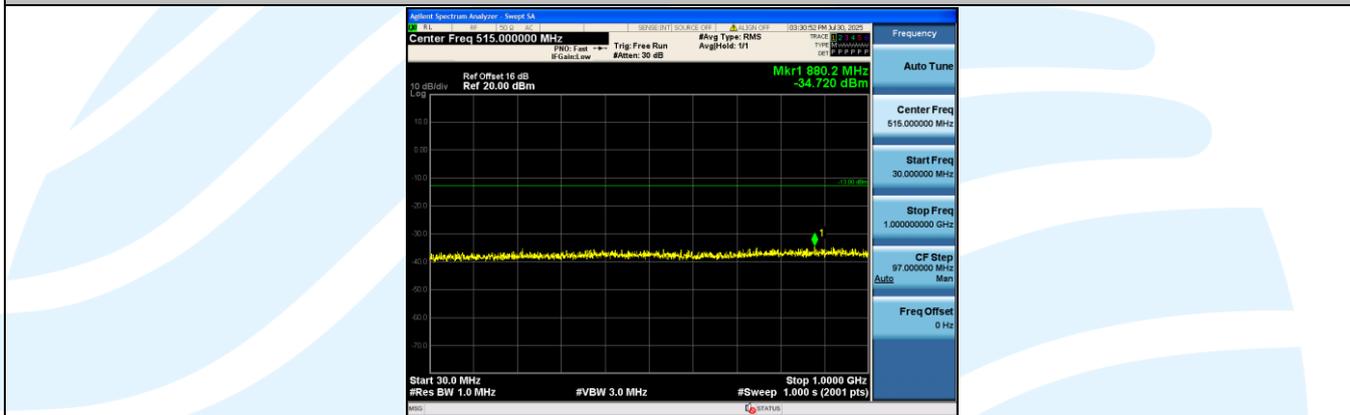


Test Graphs(HSDPA)





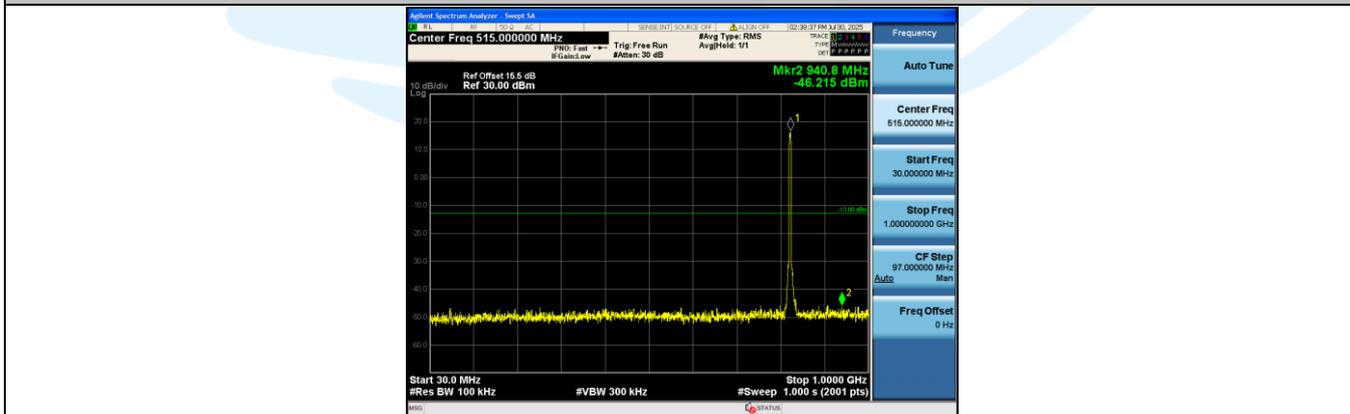
Band2-9400-1-1000~20000MHz-PASS



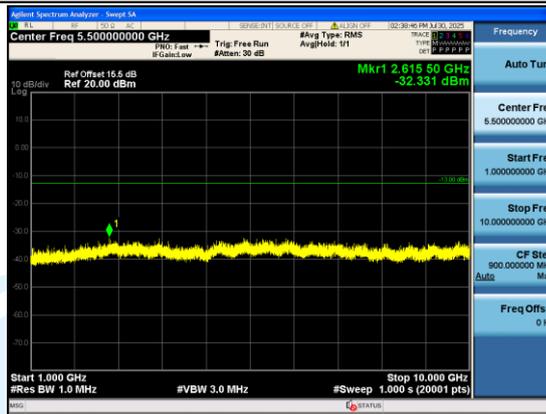
Band2-9538-1-30~1000MHz-PASS



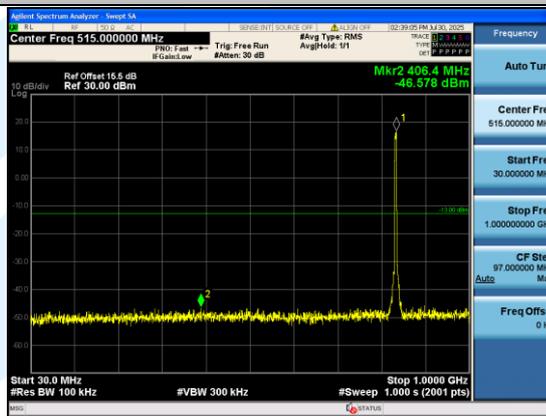
Band2-9538-1-1000~20000MHz-PASS



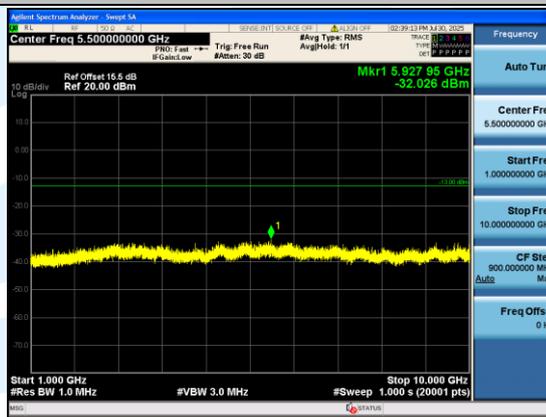
Band5-4132-1-30~1000MHz-PASS



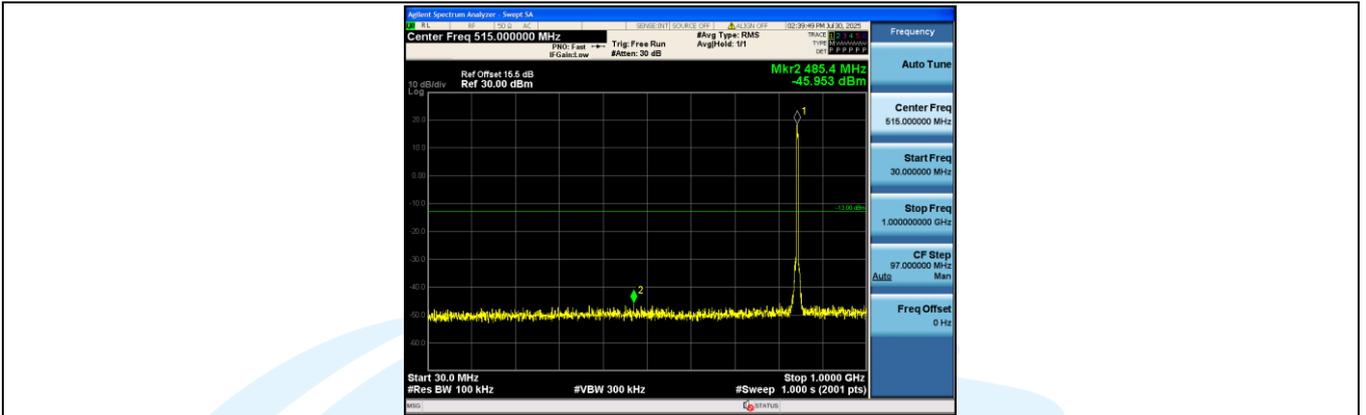
Band5-4132-1-1000~10000MHz-PASS



Band5-4182-1-30~1000MHz-PASS



Band5-4182-1-1000~10000MHz-PASS

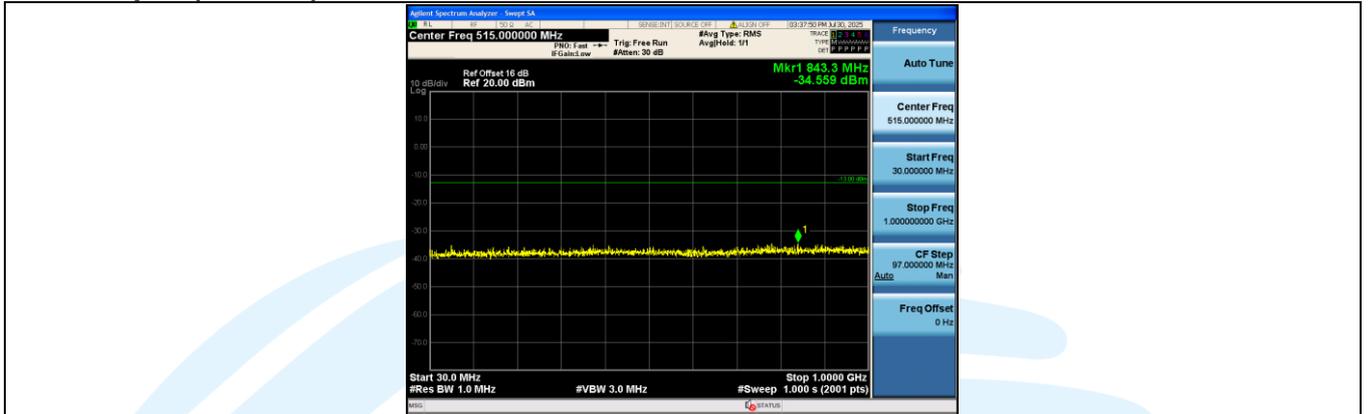


Band5-4233-1-30~1000MHz-PASS

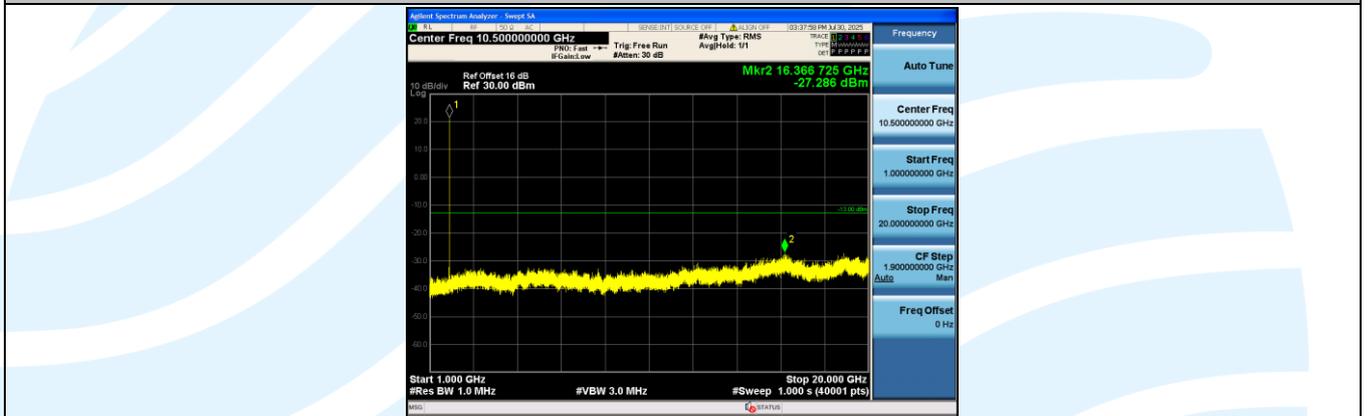


Band5-4233-1-1000~10000MHz-PASS

Test Graphs(HSUPA)



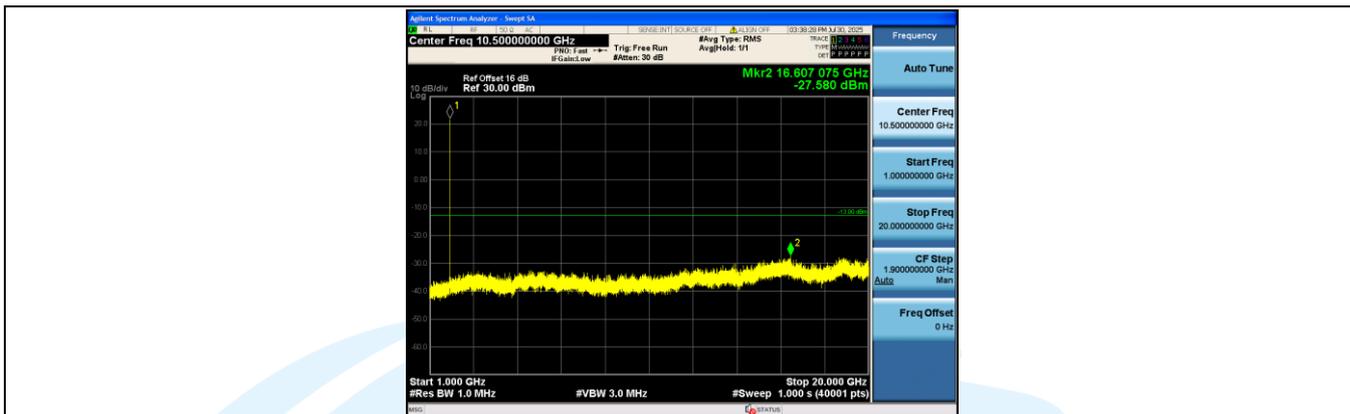
Band2-9262-1-30~1000MHz-PASS



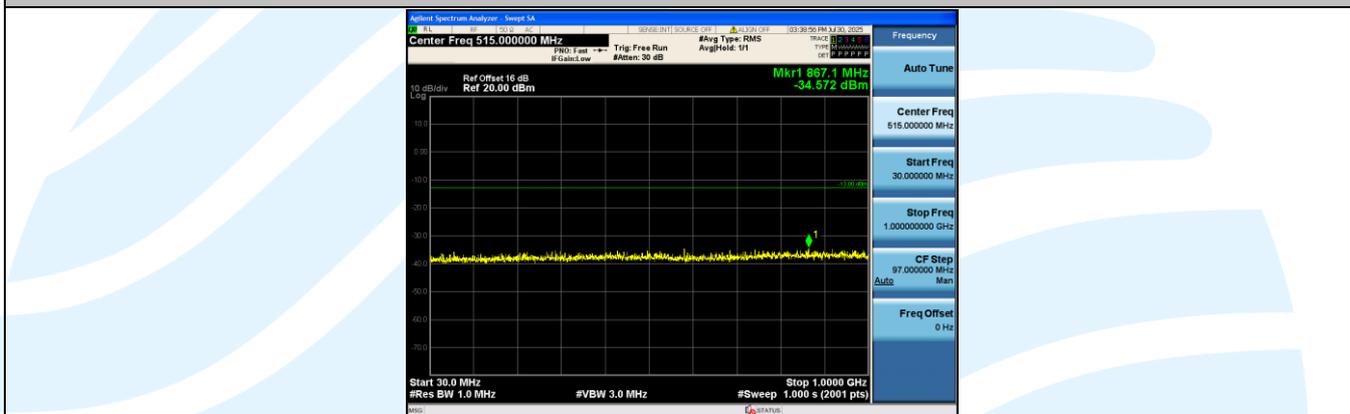
Band2-9262-1-1000~20000MHz-PASS



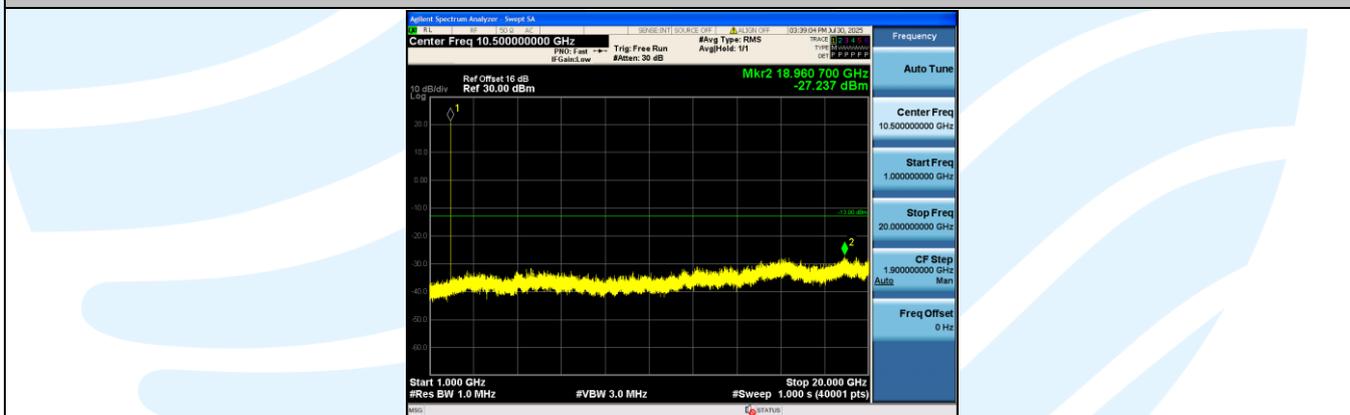
Band2-9400-1-30~1000MHz-PASS



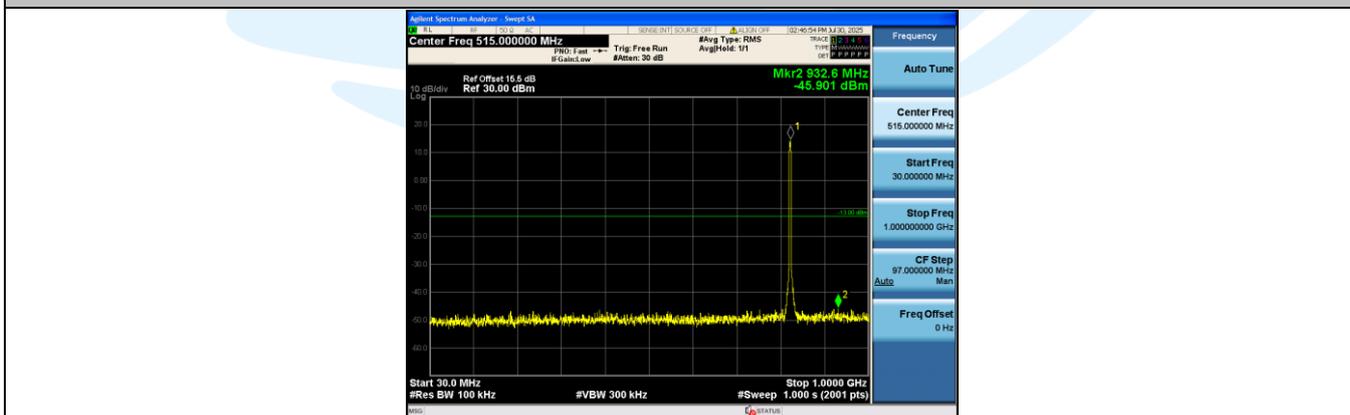
Band2-9400-1-1000~20000MHz-PASS



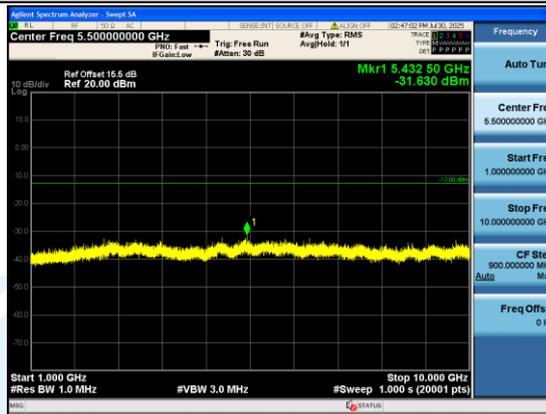
Band2-9538-1-30~1000MHz-PASS



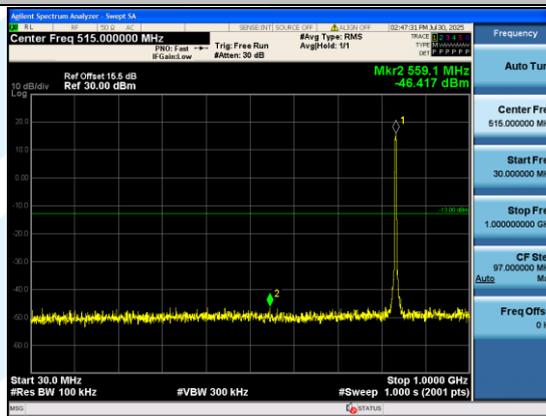
Band2-9538-1-1000~20000MHz-PASS



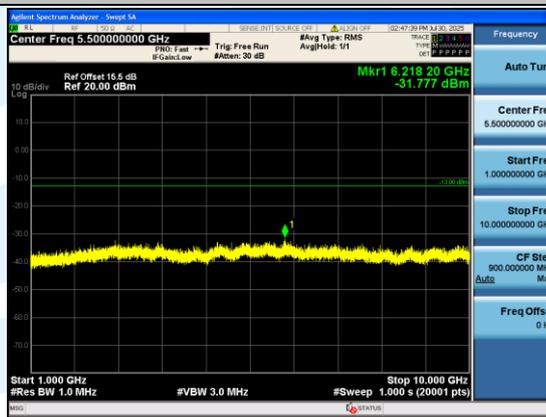
Band5-4132-1-30~1000MHz-PASS



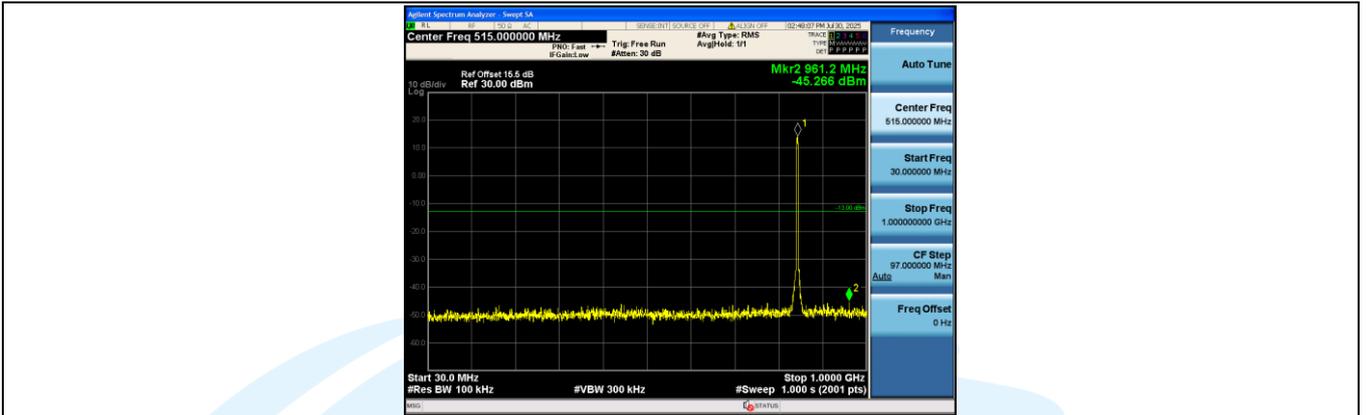
Band5-4132-1-1000~10000MHz-PASS



Band5-4182-1-30~1000MHz-PASS



Band5-4182-1-1000~10000MHz-PASS



Band5-4233-1-30~1000MHz-PASS



Band5-4233-1-1000~10000MHz-PASS

A.5 FREQUENCY STABILITY

Test Result(WCDMA)

Voltage							
Band	Channel	Voltage (Vdc)	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9400	VN	NT	0.12	0.000064	±2.5	PASS
Band2	9400	VL	NT	-1.23	-0.000654	±2.5	PASS
Band2	9400	VH	NT	-0.09	-0.000048	±2.5	PASS
Band5	4182	VN	NT	-0.69	-0.000825	±2.5	PASS
Band5	4182	VL	NT	-1.80	-0.002152	±2.5	PASS
Band5	4182	VH	NT	-1.32	-0.001578	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Tempe. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9400	NV	-30	0.46	0.000245	±2.5	PASS
Band2	9400	NV	-20	0.57	0.000303	±2.5	PASS
Band2	9400	NV	-10	-1.21	-0.000644	±2.5	PASS
Band2	9400	NV	0	4.85	0.002580	±2.5	PASS
Band2	9400	NV	10	-4.39	-0.002335	±2.5	PASS
Band2	9400	NV	20	1.17	0.000622	±2.5	PASS
Band2	9400	NV	30	-0.47	-0.000250	±2.5	PASS
Band2	9400	NV	40	-6.62	-0.003521	±2.5	PASS
Band2	9400	NV	50	-1.31	-0.000697	±2.5	PASS
Band5	4182	NV	-30	0.87	0.001040	±2.5	PASS
Band5	4182	NV	-20	-0.54	-0.000646	±2.5	PASS
Band5	4182	NV	-10	0.39	0.000466	±2.5	PASS
Band5	4182	NV	0	-0.58	-0.000693	±2.5	PASS
Band5	4182	NV	10	-1.77	-0.002116	±2.5	PASS
Band5	4182	NV	20	-0.38	-0.000454	±2.5	PASS
Band5	4182	NV	30	-0.73	-0.000873	±2.5	PASS
Band5	4182	NV	40	-0.34	-0.000407	±2.5	PASS
Band5	4182	NV	50	-1.45	-0.001734	±2.5	PASS