

AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result(WCDMA)

Band	Type	Channel	Average Power (dBm)	Antenna Gain (dBi)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)
Band5	Voice	4132	22.77	-3.78	16.84	38.45
Band5	RMC	4132	22.77	-3.78	16.84	38.45
Band5	Voice	4183	22.96	-3.78	17.03	38.45
Band5	RMC	4183	22.96	-3.78	17.03	38.45
Band5	Voice	4233	23.16	-3.78	17.23	38.45
Band5	RMC	4233	23.19	-3.78	17.26	38.45
Band2	Voice	9262	23.56	-3.78	16.84	33.00
Band2	RMC	9262	23.57	-1.02	22.55	33.00
Band2	Voice	9400	23.36	-1.02	22.34	33.00
Band2	RMC	9400	23.39	-1.02	22.37	33.00
Band2	Voice	9538	23.20	-1.02	22.18	33.00
Band2	RMC	9538	23.25	-1.02	22.23	33.00

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). (For Band2)
 ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)

Band	Type	Channel	SubTest	Average Power (dBm)	Antenna Gain (dBi)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)
Band5	HSDPA	4132	1	21.98	-3.78	16.05	38.45
Band5	HSDPA	4132	2	21.74	-3.78	15.81	38.45
Band5	HSDPA	4132	3	21.34	-3.78	15.41	38.45
Band5	HSDPA	4132	4	21.33	-3.78	15.4	38.45
Band5	HSDPA	4183	1	22.24	-3.78	16.31	38.45
Band5	HSDPA	4183	2	21.98	-3.78	16.05	38.45
Band5	HSDPA	4183	3	21.61	-3.78	15.68	38.45
Band5	HSDPA	4183	4	21.66	-3.78	15.73	38.45
Band5	HSDPA	4233	1	22.41	-3.78	16.48	38.45
Band5	HSDPA	4233	2	22.2	-3.78	16.27	38.45
Band5	HSDPA	4233	3	21.71	-3.78	15.78	38.45
Band5	HSDPA	4233	4	21.76	-3.78	15.83	38.45
Band5	HSUPA	4132	1	20.55	-3.78	14.62	38.45

Band5	HSUPA	4132	2	20.69	-3.78	14.76	38.45
Band5	HSUPA	4132	3	20.18	-3.78	14.25	38.45
Band5	HSUPA	4132	4	20.03	-3.78	14.1	38.45
Band5	HSUPA	4132	5	21.88	-3.78	15.95	38.45
Band5	HSUPA	4183	1	20.79	-3.78	14.86	38.45
Band5	HSUPA	4183	2	20.97	-3.78	15.04	38.45
Band5	HSUPA	4183	3	20.39	-3.78	14.46	38.45
Band5	HSUPA	4183	4	20.25	-3.78	14.32	38.45
Band5	HSUPA	4183	5	22.15	-3.78	16.22	38.45
Band5	HSUPA	4233	1	20.92	-3.78	14.99	38.45
Band5	HSUPA	4233	2	21.07	-3.78	15.14	38.45
Band5	HSUPA	4233	3	20.21	-3.78	14.28	38.45
Band5	HSUPA	4233	4	20.44	-3.78	14.51	38.45
Band5	HSUPA	4233	5	22.27	-3.78	16.34	38.45
Band2	HSDPA	9262	1	23.27	-1.02	22.25	33.00
Band2	HSDPA	9262	2	22.94	-1.02	21.92	33.00
Band2	HSDPA	9262	3	22.70	-1.02	21.68	33.00
Band2	HSDPA	9262	4	22.77	-1.02	21.75	33.00
Band2	HSDPA	9400	1	22.42	-1.02	21.40	33.00
Band2	HSDPA	9400	2	22.13	-1.02	21.11	33.00
Band2	HSDPA	9400	3	21.95	-1.02	20.93	33.00
Band2	HSDPA	9400	4	21.97	-1.02	20.95	33.00
Band2	HSDPA	9538	1	22.38	-1.02	21.36	33.00
Band2	HSDPA	9538	2	22.05	-1.02	21.03	33.00
Band2	HSDPA	9538	3	21.87	-1.02	20.85	33.00
Band2	HSDPA	9538	4	21.83	-1.02	20.81	33.00
Band2	HSUPA	9262	1	21.07	-1.02	20.05	33.00
Band2	HSUPA	9262	2	21.47	-1.02	20.45	33.00
Band2	HSUPA	9262	3	20.98	-1.02	19.96	33.00
Band2	HSUPA	9262	4	21.29	-1.02	20.27	33.00
Band2	HSUPA	9262	5	23.38	-1.02	22.36	33.00
Band2	HSUPA	9400	1	20.16	-1.02	19.14	33.00
Band2	HSUPA	9400	2	20.56	-1.02	19.54	33.00
Band2	HSUPA	9400	3	20.06	-1.02	19.04	33.00
Band2	HSUPA	9400	4	20.40	-1.02	19.38	33.00

Band2	HSUPA	9400	5	22.54	-1.02	21.52	33.00
Band2	HSUPA	9538	1	20.18	-1.02	19.16	33.00
Band2	HSUPA	9538	2	20.63	-1.02	19.61	33.00
Band2	HSUPA	9538	3	20.16	-1.02	19.14	33.00
Band2	HSUPA	9538	4	20.42	-1.02	19.40	33.00
Band2	HSUPA	9538	5	22.42	-1.02	21.40	33.00
<p><i>Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). (For Band2)</i> <i>ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)</i></p>							

Appendix B: Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.01	13	PASS
Band5	4183	3.03	13	PASS

Test Graphs(WCDMA)

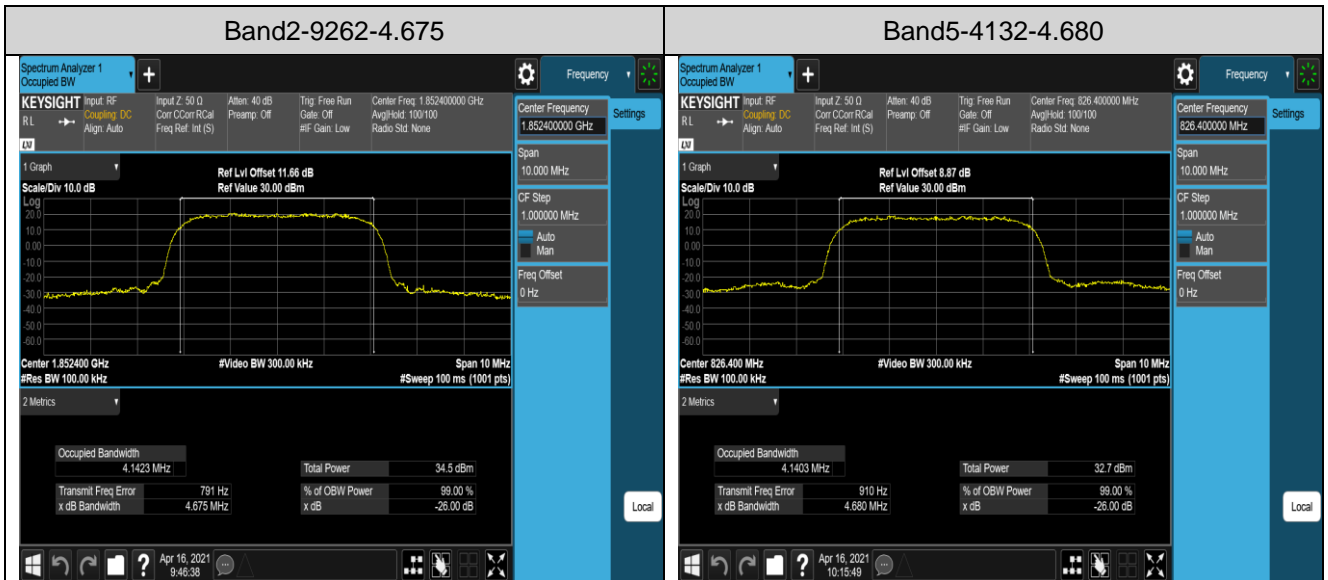


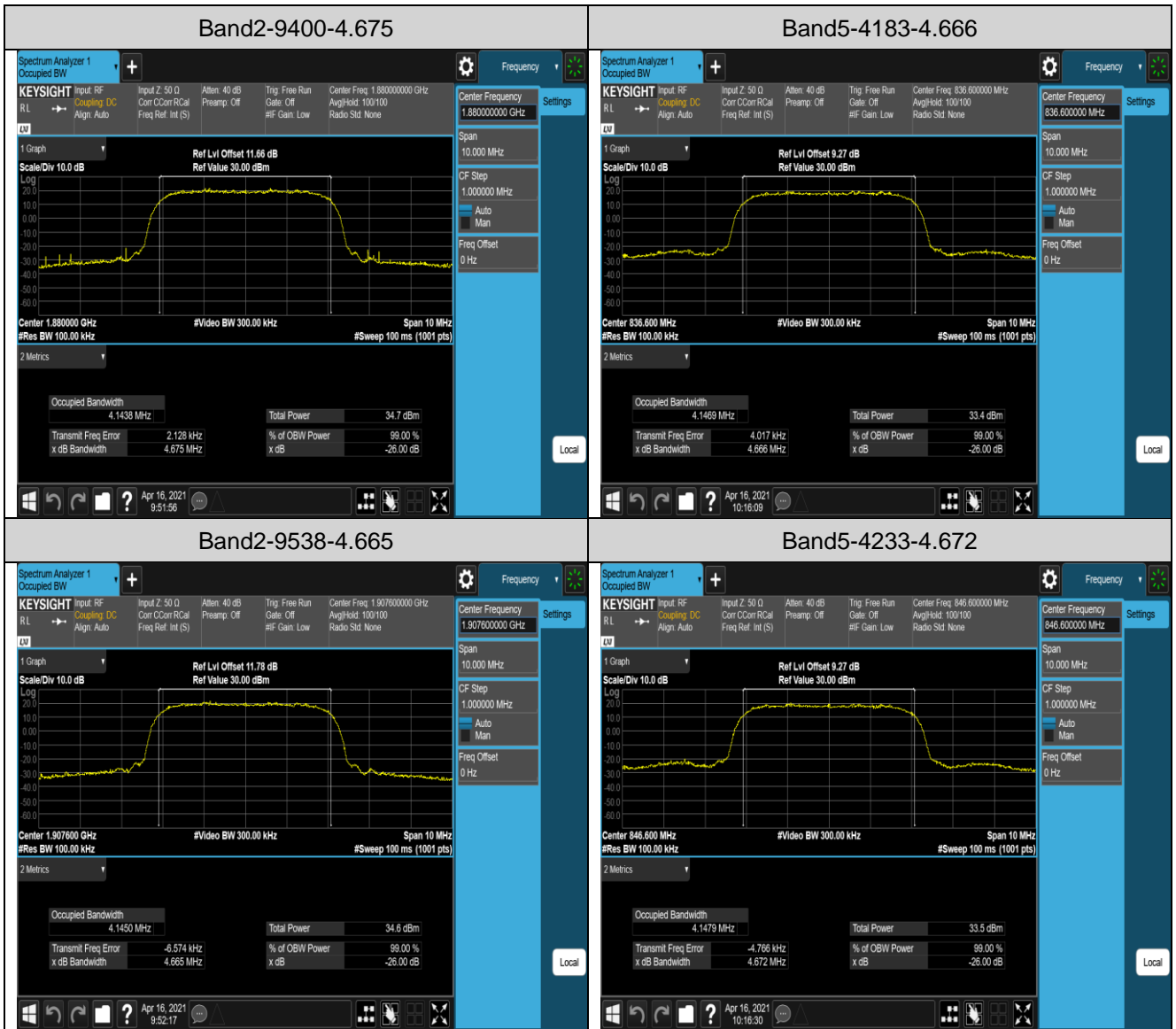
AppendixC:26dB Bandwidth and Occupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1423	4.675	---	PASS
Band2	9400	4.1438	4.675	---	PASS
Band2	9538	4.1450	4.665	---	PASS
Band5	4132	4.1403	4.680	---	PASS
Band5	4183	4.1469	4.666	---	PASS
Band5	4233	4.1479	4.672	---	PASS

Test Graphs(WCDMA)



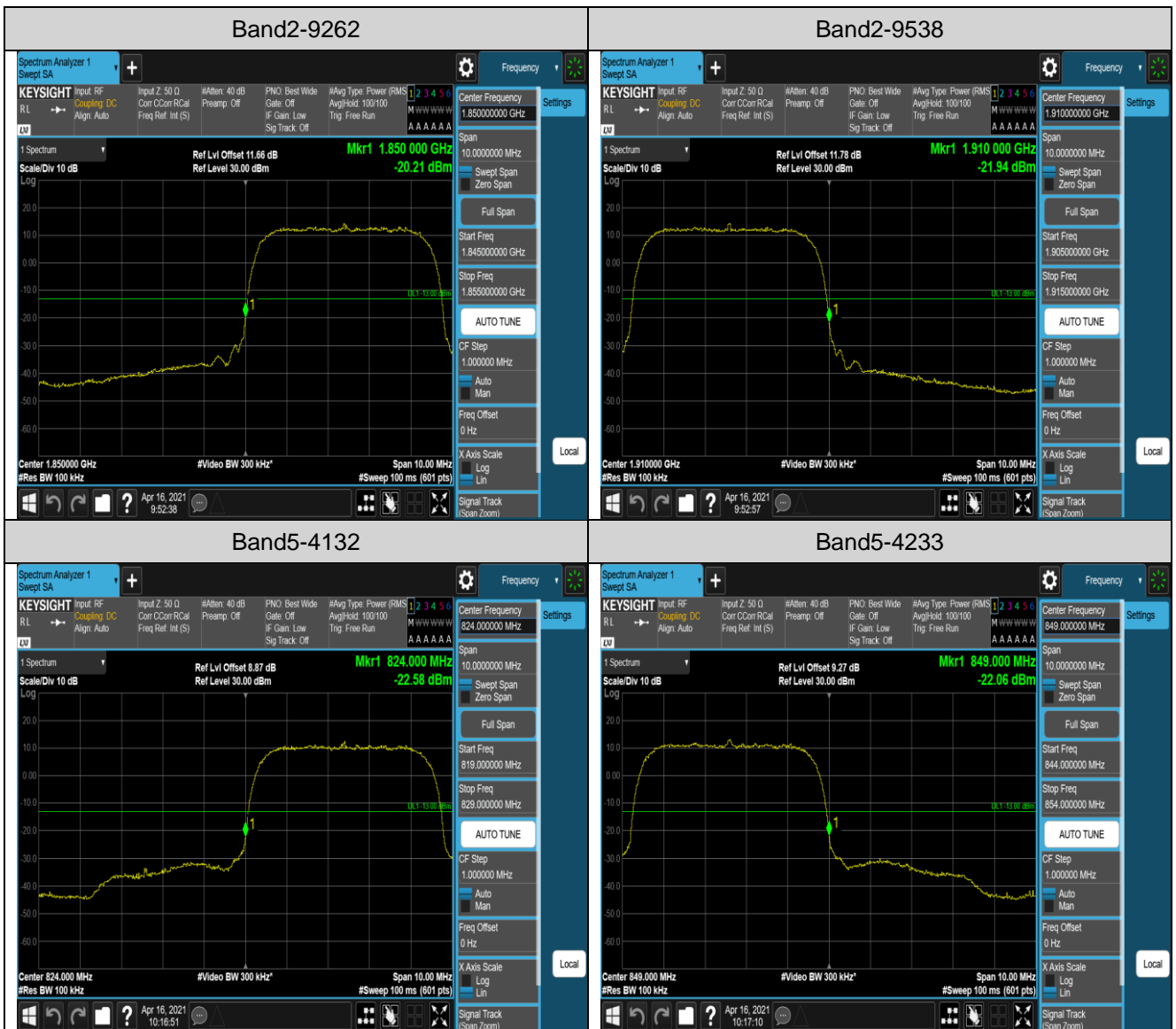


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-20.21	-13	PASS
Band2	9538	1910.00	-21.94	-13	PASS
Band5	4132	824.00	-22.58	-13	PASS
Band5	4233	849.00	-22.06	-13	PASS

Test Graphs(WCDMA)



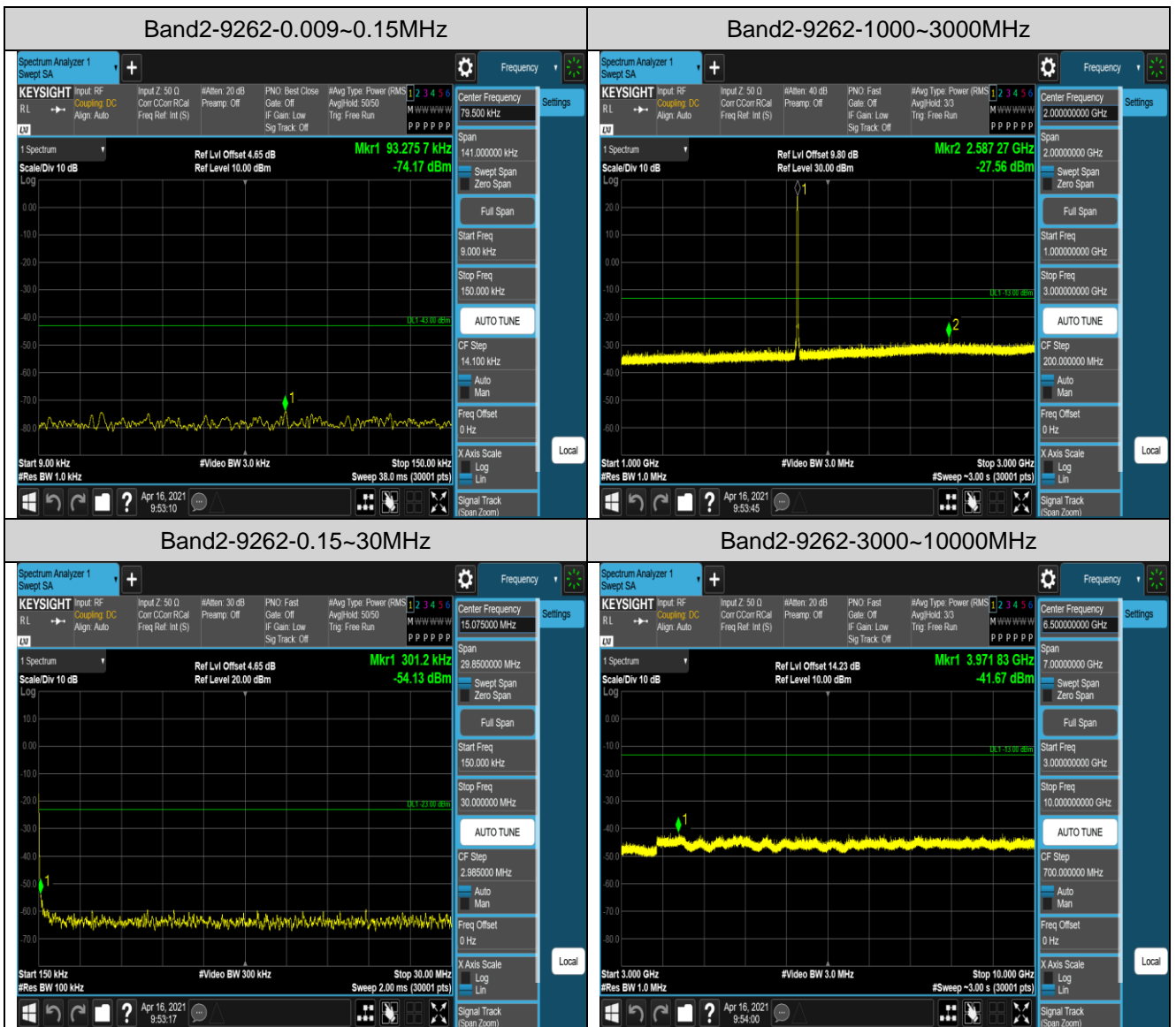
AppendixE:Conducted SpuriousEmission

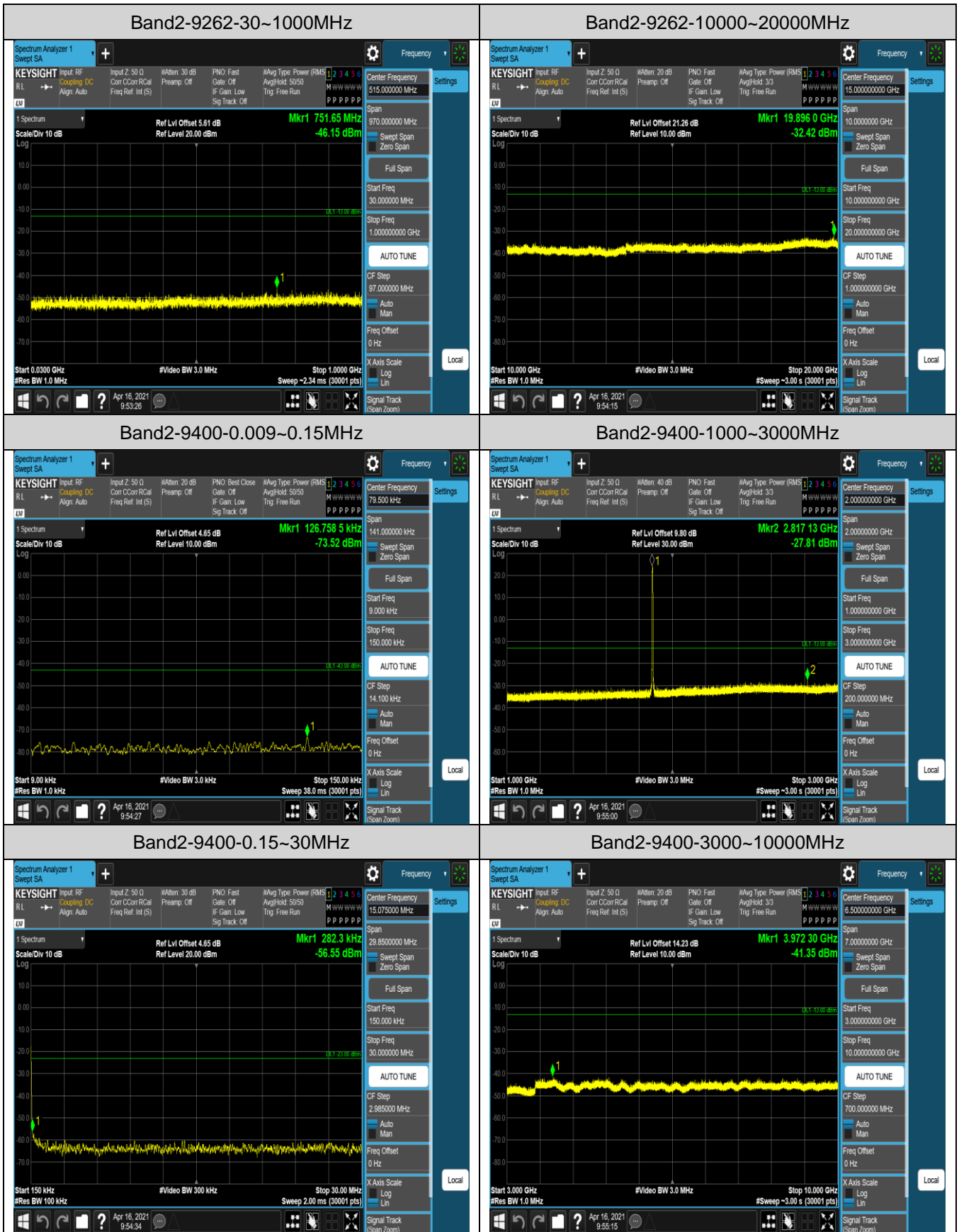
Test Result(WCDMA)

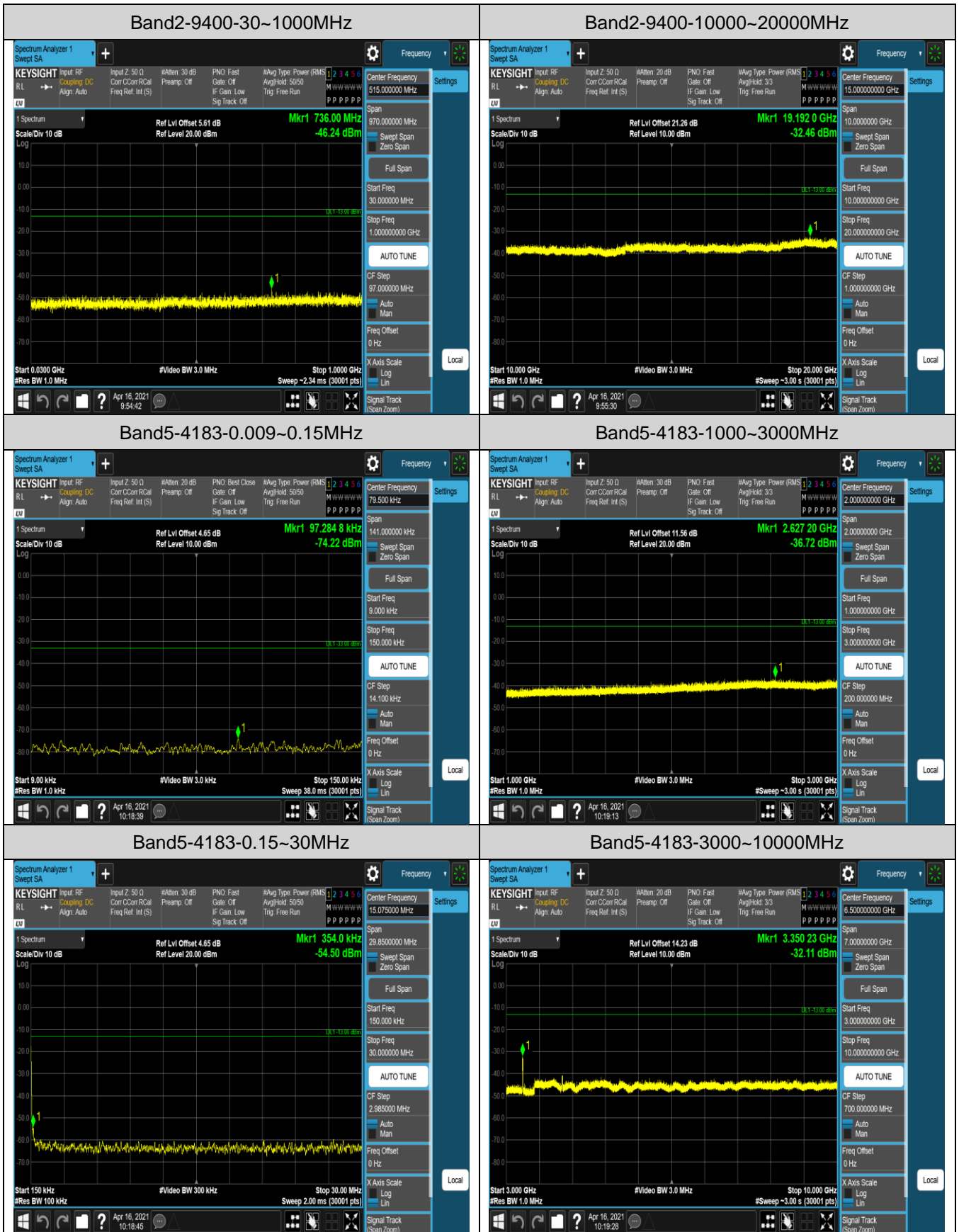
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.09	-74.17	-43	PASS
Band2	9262	0.15~30MHz	0.3	-54.13	-23	PASS
Band2	9262	30~1000MHz	751.65	-46.15	-13	PASS
Band2	9262	1000~3000MHz	2587.27	-27.56	-13	PASS
Band2	9262	3000~10000MHz	3971.83	-41.67	-13	PASS
Band2	9262	10000~20000MHz	19896	-32.42	-13	PASS
Band2	9400	0.009~0.15MHz	0.13	-73.52	-43	PASS
Band2	9400	0.15~30MHz	0.28	-56.55	-23	PASS
Band2	9400	30~1000MHz	736	-46.24	-13	PASS
Band2	9400	1000~3000MHz	2817.13	-27.81	-13	PASS
Band2	9400	3000~10000MHz	3972.3	-41.35	-13	PASS
Band2	9400	10000~20000MHz	19192	-32.46	-13	PASS
Band2	9538	0.009~0.15MHz	0.06	-74.91	-43	PASS
Band2	9538	0.15~30MHz	0.38	-55.38	-23	PASS
Band2	9538	30~1000MHz	813.47	-46.86	-13	PASS
Band2	9538	1000~3000MHz	2547.53	-27.98	-13	PASS
Band2	9538	3000~10000MHz	4916.6	-41.29	-13	PASS
Band2	9538	10000~20000MHz	19930	-32.26	-13	PASS
Band5	4132	0.009~0.15MHz	0.15	-75.02	-33	PASS
Band5	4132	0.15~30MHz	0.32	-56.32	-13	PASS
Band5	4132	30~1000MHz	455.86	-37.45	-13	PASS
Band5	4132	1000~3000MHz	2988.6	-36.35	-13	PASS
Band5	4132	3000~10000MHz	3302.63	-33.76	-13	PASS
Band5	4132	10000~18000MHz	13642.93	-41.38	-13	PASS
Band5	4183	0.009~0.15MHz	0.1	-74.22	-33	PASS
Band5	4183	0.15~30MHz	0.35	-54.5	-13	PASS
Band5	4183	30~1000MHz	997.61	-37.08	-13	PASS
Band5	4183	1000~3000MHz	2627.2	-36.73	-13	PASS
Band5	4183	3000~10000MHz	3350.23	-32.11	-13	PASS
Band5	4183	10000~18000MHz	13636.8	-42.03	-13	PASS
Band5	4233	0.009~0.15MHz	0.13	-75.35	-33	PASS

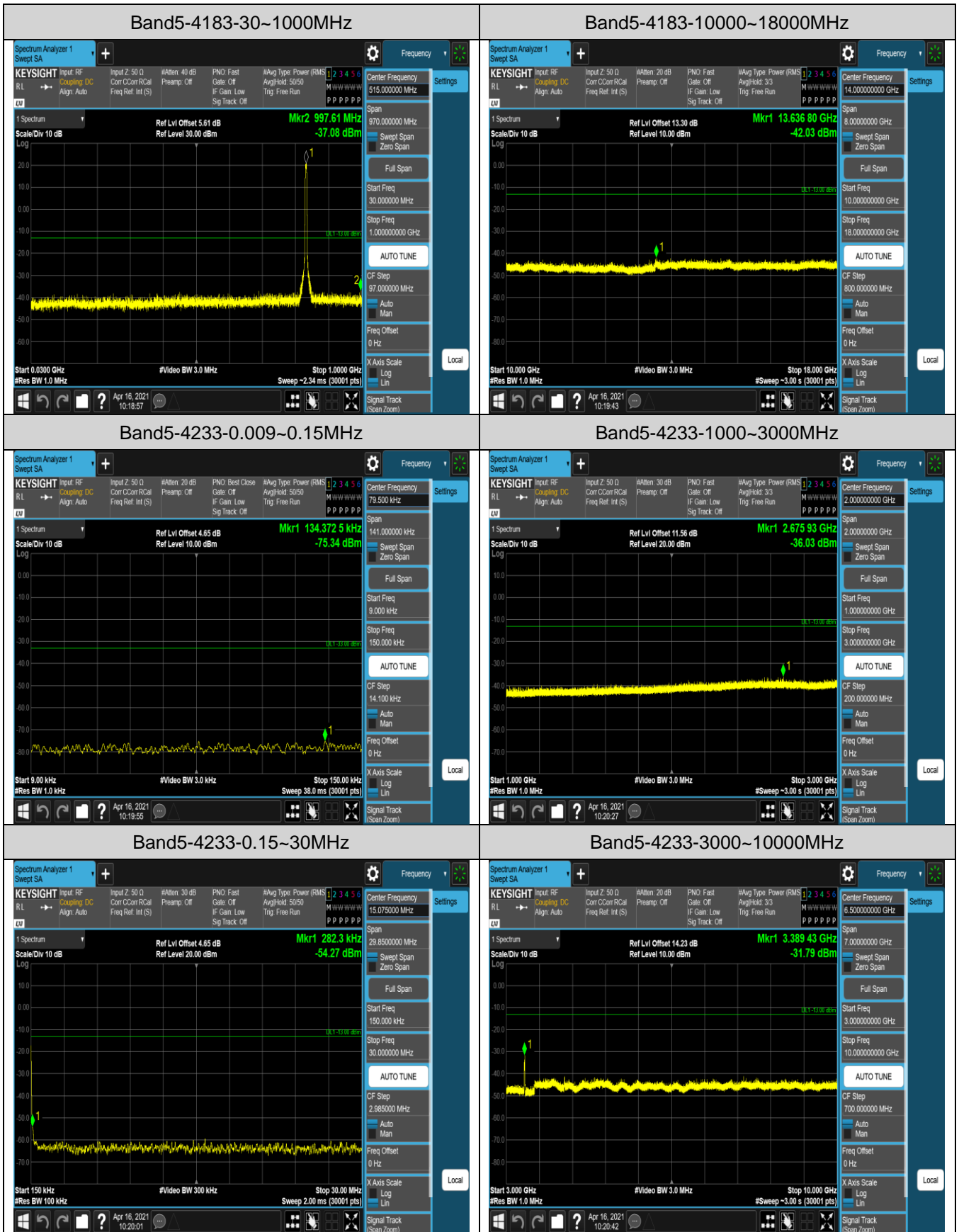
Band5	4233	0.15~30MHz	0.28	-54.28	-13	PASS
Band5	4233	30~1000MHz	684.39	-37.21	-13	PASS
Band5	4233	1000~3000MHz	2675.93	-36.03	-13	PASS
Band5	4233	3000~10000MHz	3389.43	-31.79	-13	PASS
Band5	4233	10000~18000MHz	17704.53	-42.1	-13	PASS

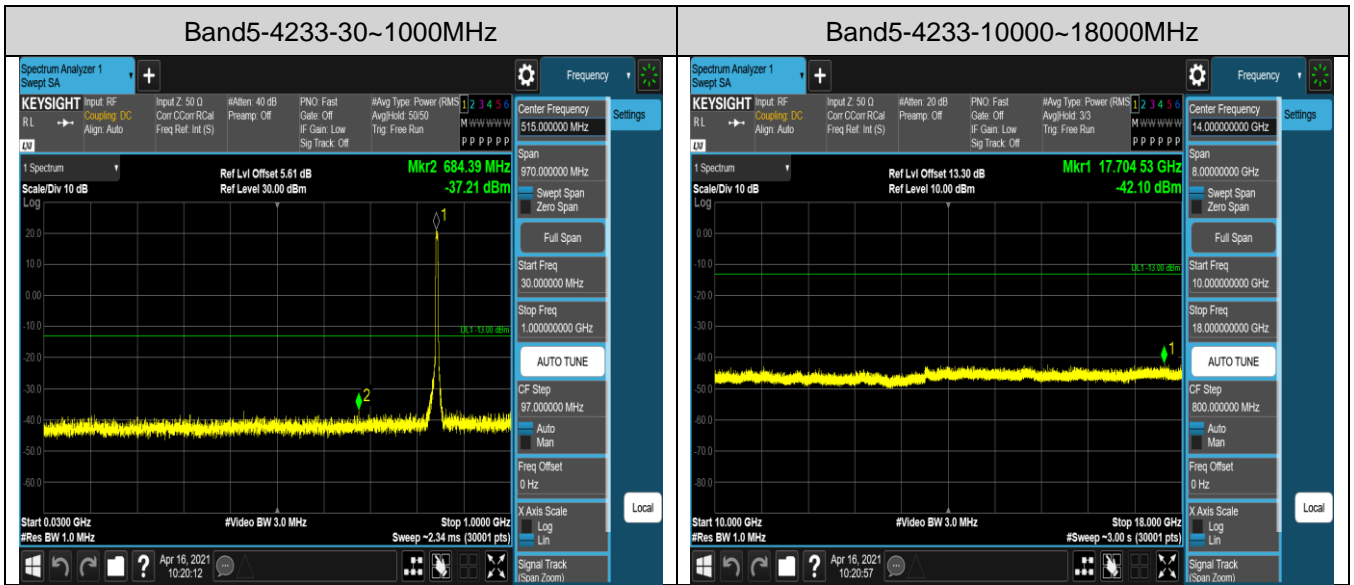
Test Graphs(WCDMA)











Appendix F: Frequency Stability

Test Result (the worst channel)

Temperature					
Reference Frequency: WCDMA BAND V 12.2k RMC Middle channel=4183 Frequenc=836.6MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	0.03	0.000036	±2.5	Pass
	-20	-0.64	-0.000765		
	-10	0.21	0.000251		
	0	0.12	0.000143		
	10	-2.24	-0.002678		
	20	-2.37	-0.002833		
	30	0.33	0.000394		
	40	0.95	0.001136		
	50	-0.18	-0.000215		
Reference Frequency: WCDMA BAND II 12.2k RMC Middle channel=9400 Frequenc=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-0.66	-0.000351	Within authorized band for WCDMA 1900	Pass
	-20	-0.38	-0.000202		
	-10	-0.16	-0.000085		
	0	1.85	0.000984		
	10	4.48	0.002383		
	20	-4.16	-0.002213		
	30	9.73	0.005176		
	40	-0.26	-0.000138		
	50	-1.22	-0.000649		
<i>Note: Only the worst case shown in the report.</i>					

Voltage					
Reference Frequency: UMTS 850 12.2k RMC Middle channel=4183 Frequnc=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	0.34	0.000406	±2.5	Pass
	3.85	-0.09	-0.000108		
	4.40	1.01	0.001207		
Reference Frequency: UMTS 1900 12.2k RMC Middle channel=9400 Frequnc=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-0.48	-0.000255	Within authorized band for WCDMA 1900	Pass
	3.85	-1.24	-0.000660		
	4.40	1.24	0.000660		
<i>Note: Only the worst case shown in the report.</i>					