

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)
Band2	Voice	9262	22.44	-1.08	21.36	33.00
Band2	RMC	9262	22.52	-1.08	21.44	33.00
Band2	Voice	9400	22.62	-1.08	21.54	33.00
Band2	RMC	9400	22.71	-1.08	21.63	33.00
Band2	Voice	9538	22.61	-1.08	21.53	33.00
Band2	RMC	9538	22.69	-1.08	21.61	33.00
Band5	Voice	4132	22.63	-1.07	19.55	38.45
Band5	RMC	4132	22.77	-1.07	19.41	38.45
Band5	Voice	4183	22.95	-1.07	19.86	38.45
Band5	RMC	4183	22.98	-1.07	19.76	38.45
Band5	Voice	4233	22.76	-1.07	19.65	38.45
Band5	RMC	4233	22.87	-1.07	19.54	38.45

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

Test Result(HSDPA)

Band	Type	Channel	SubTest	Average Power (dBm)	Antenna Gain (dBi)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)
Band2	HSDPA	9262	1	21.98	-1.08	20.90	33.00
Band2	HSDPA	9262	2	21.86	-1.08	20.78	33.00
Band2	HSDPA	9262	3	21.30	-1.08	20.22	33.00
Band2	HSDPA	9262	4	21.30	-1.08	20.22	33.00
Band2	HSDPA	9400	1	21.30	-1.08	20.22	33.00
Band2	HSDPA	9400	2	21.26	-1.08	20.18	33.00
Band2	HSDPA	9400	3	20.70	-1.08	19.62	33.00
Band2	HSDPA	9400	4	20.72	-1.08	19.64	33.00
Band2	HSDPA	9538	1	21.66	-1.08	20.58	33.00
Band2	HSDPA	9538	2	21.52	-1.08	20.44	33.00
Band2	HSDPA	9538	3	20.95	-1.08	19.87	33.00

Band2	HSDPA	9538	4	21.00	-1.08	19.92	33.00
Band5	HSDPA	4132	1	21.93	-1.07	18.71	38.45
Band5	HSDPA	4132	2	22.23	-1.07	19.01	38.45
Band5	HSDPA	4132	3	21.45	-1.07	18.23	38.45
Band5	HSDPA	4132	4	21.33	-1.07	18.11	38.45
Band5	HSDPA	4183	1	22.10	-1.07	18.88	38.45
Band5	HSDPA	4183	2	22.59	-1.07	19.37	38.45
Band5	HSDPA	4183	3	21.69	-1.07	18.47	38.45
Band5	HSDPA	4183	4	21.69	-1.07	18.47	38.45
Band5	HSDPA	4233	1	22.20	-1.07	18.98	38.45
Band5	HSDPA	4233	2	22.47	-1.07	19.25	38.45
Band5	HSDPA	4233	3	21.54	-1.07	18.32	38.45
Band5	HSDPA	4233	4	21.57	-1.07	18.35	38.45

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). (For Band2)

ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)

Test Result(HSUPA)

Band	Type	Channel	SubTest	Average Power (dBm)	Antenna Gain (dBi)	ERP/EIRP (dBm)	ERP/EIR P Limit (dBm)
Band2	HSUPA	9262	1	18.99	-1.08	17.91	33.00
Band2	HSUPA	9262	2	18.06	-1.08	16.98	33.00
Band2	HSUPA	9262	3	17.48	-1.08	16.40	33.00
Band2	HSUPA	9262	4	17.90	-1.08	16.82	33.00
Band2	HSUPA	9262	5	22.27	-1.08	21.19	33.00
Band2	HSUPA	9400	1	18.42	-1.08	17.34	33.00
Band2	HSUPA	9400	2	17.51	-1.08	16.43	33.00
Band2	HSUPA	9400	3	16.95	-1.08	15.87	33.00
Band2	HSUPA	9400	4	17.36	-1.08	16.28	33.00
Band2	HSUPA	9400	5	21.78	-1.08	20.70	33.00
Band2	HSUPA	9538	1	18.79	-1.08	17.71	33.00
Band2	HSUPA	9538	2	17.88	-1.08	16.80	33.00
Band2	HSUPA	9538	3	17.32	-1.08	16.24	33.00
Band2	HSUPA	9538	4	17.77	-1.08	16.69	33.00
Band5	HSUPA	4132	1	18.52	-1.07	15.30	38.45
Band5	HSUPA	4132	2	18.68	-1.07	15.46	38.45
Band5	HSUPA	4132	3	18.62	-1.07	15.40	38.45
Band5	HSUPA	4132	4	18.49	-1.07	15.27	38.45
Band5	HSUPA	4132	5	22.32	-1.07	19.10	38.45
Band5	HSUPA	4183	1	18.80	-1.07	15.58	38.45
Band5	HSUPA	4183	2	18.93	-1.07	15.71	38.45
Band5	HSUPA	4183	3	18.89	-1.07	15.67	38.45
Band5	HSUPA	4183	4	18.76	-1.07	15.54	38.45
Band5	HSUPA	4183	5	22.72	-1.07	19.5	38.45
Band5	HSUPA	4233	1	18.85	-1.07	15.63	38.45
Band5	HSUPA	4233	2	18.98	-1.07	15.76	38.45
Band5	HSUPA	4233	3	18.93	-1.07	15.71	38.45
Band5	HSUPA	4233	4	18.77	-1.07	15.55	38.45
Band5	HSUPA	4233	5	22.59	-1.07	19.37	38.45

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

Appendix B: Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.17	13	PASS
Band5	4183	3.21	13	PASS

Test Graphs(WCDMA)

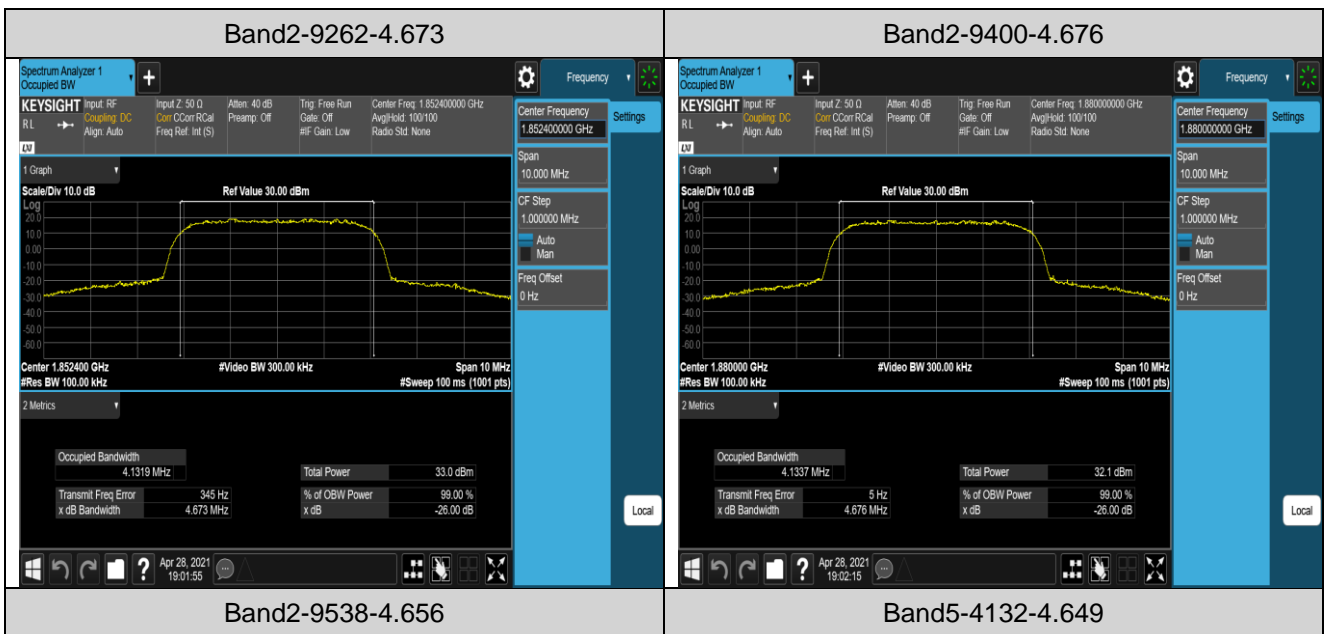


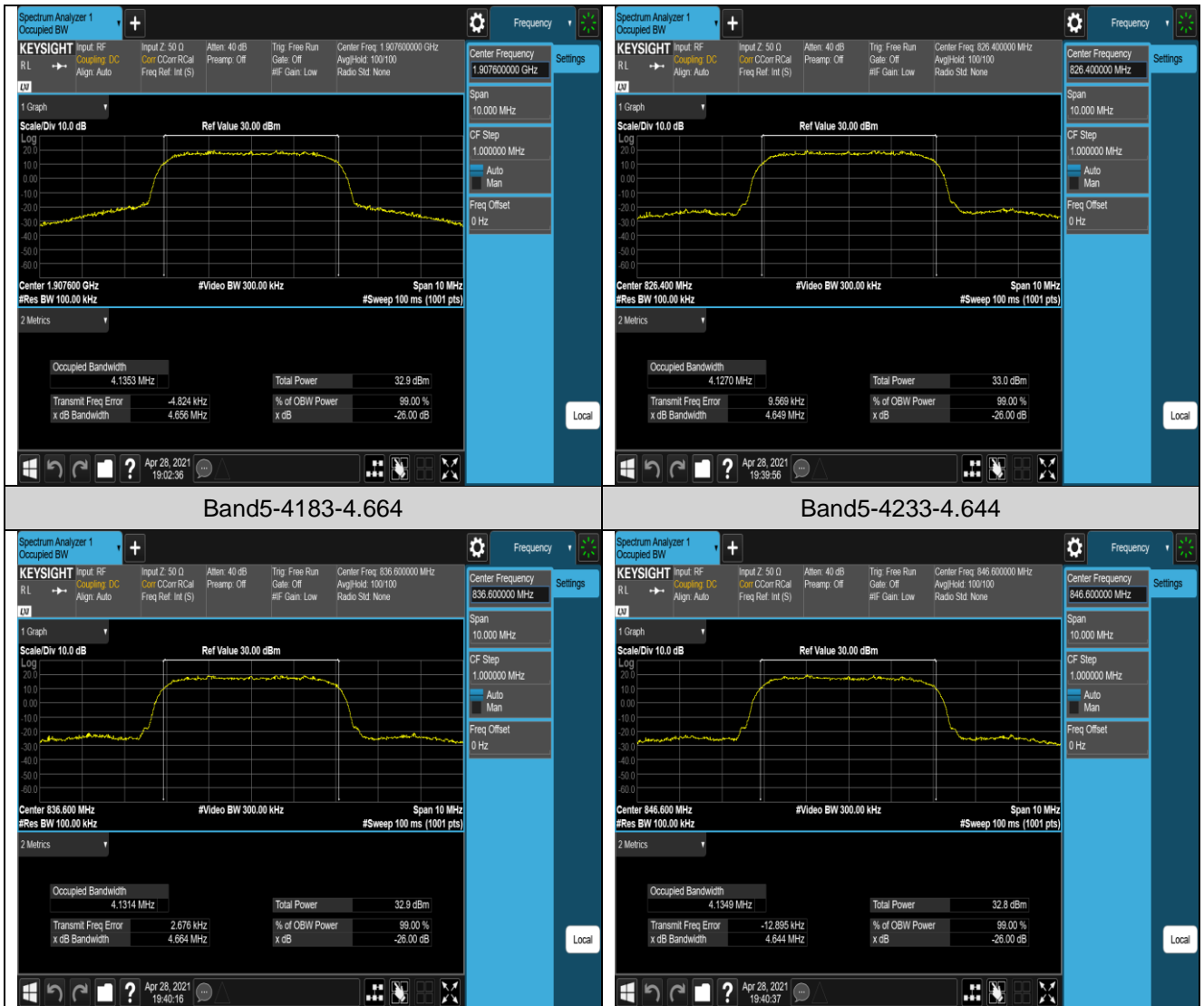
AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1319	4.673	---	PASS
Band2	9400	4.1337	4.676	---	PASS
Band2	9538	4.1353	4.656	---	PASS
Band5	4132	4.1270	4.649	---	PASS
Band5	4183	4.1314	4.664	---	PASS
Band5	4233	4.1349	4.644	---	PASS

Test Graphs(WCDMA)



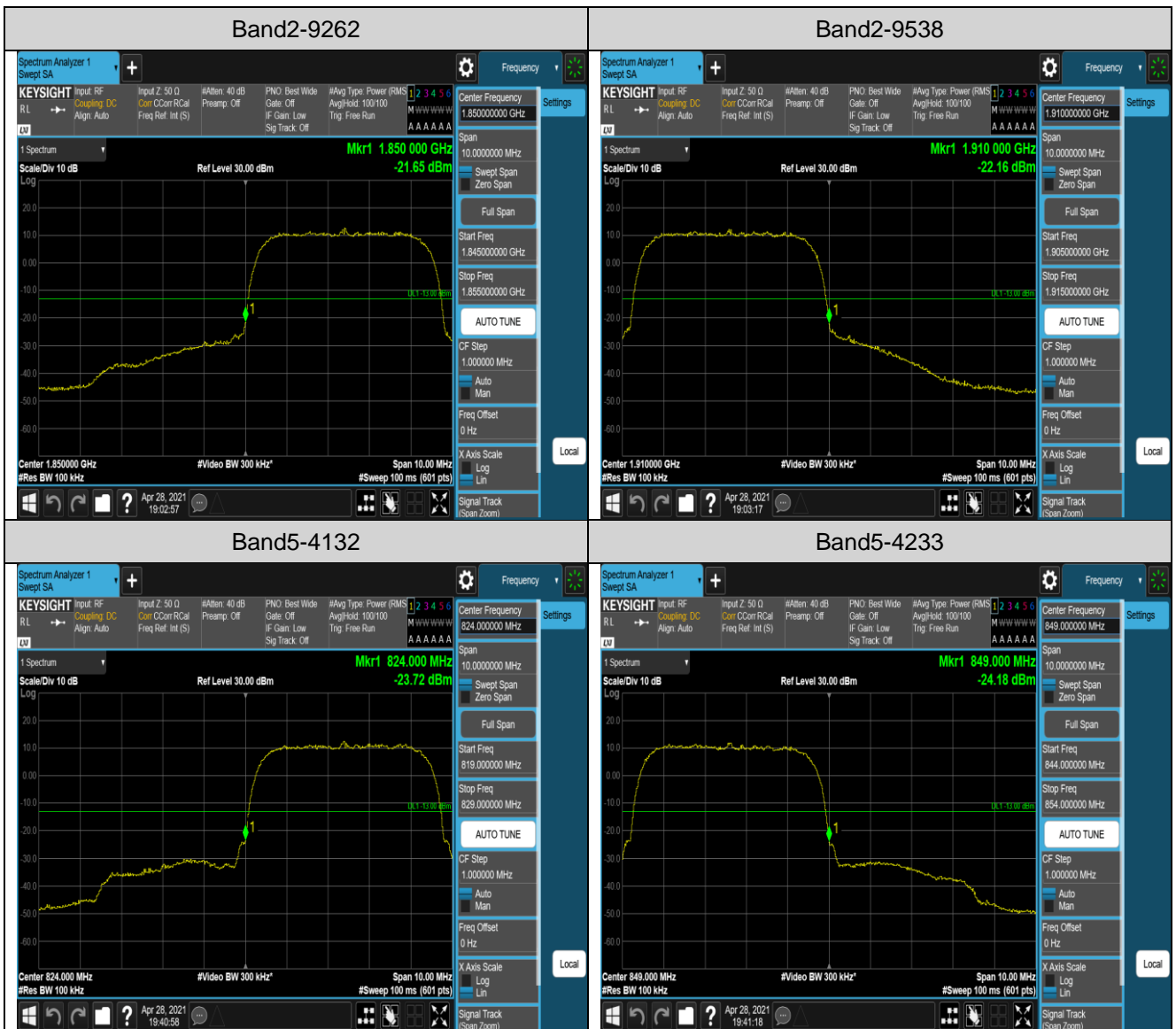


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-21.65	-13	PASS
Band2	9538	1910.00	-22.16	-13	PASS
Band5	4132	824.00	-23.72	-13	PASS
Band5	4233	849.00	-24.18	-13	PASS

Test Graphs(WCDMA)



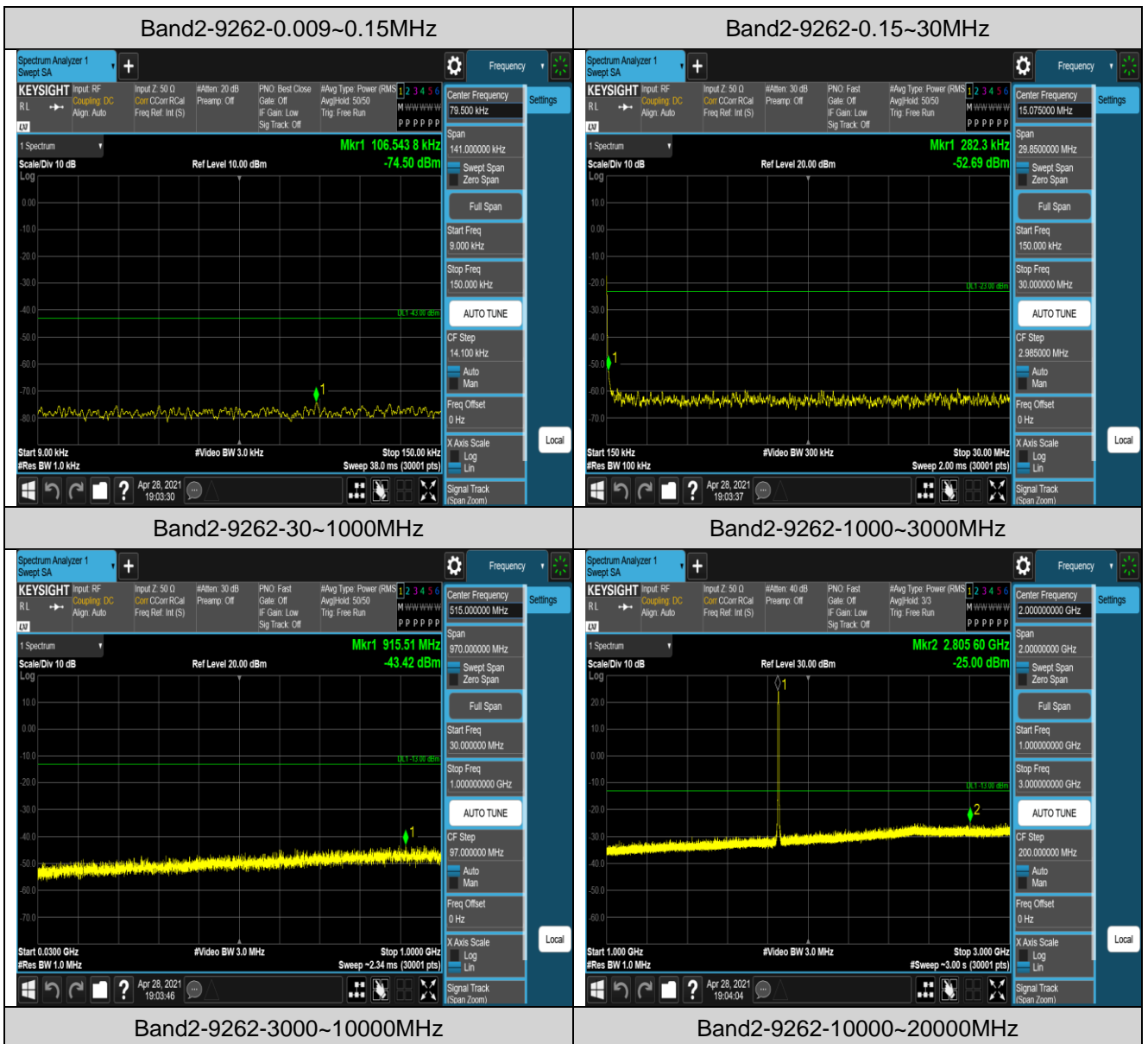
AppendixE:Conducted SpuriousEmission

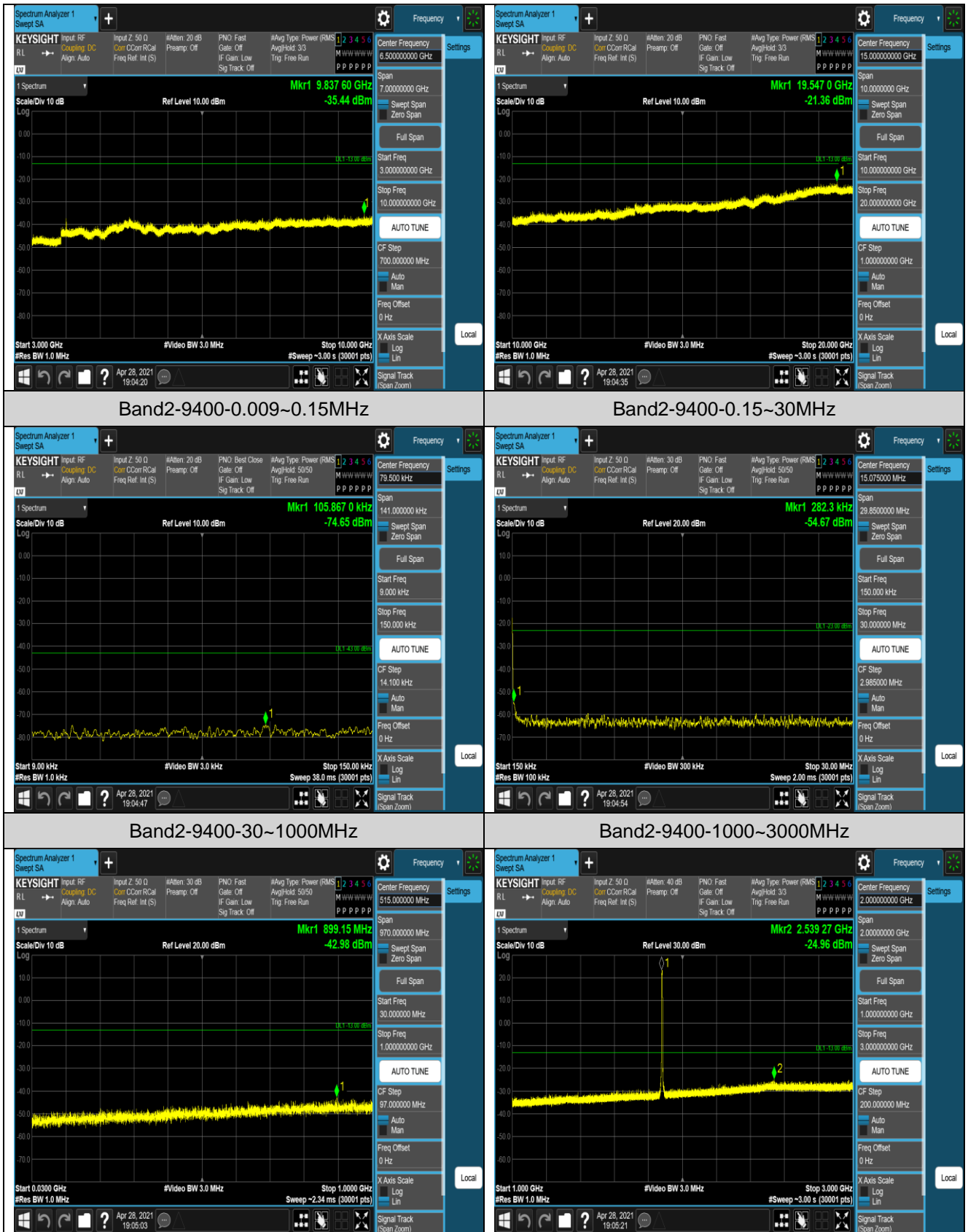
Test Result(WCDMA)

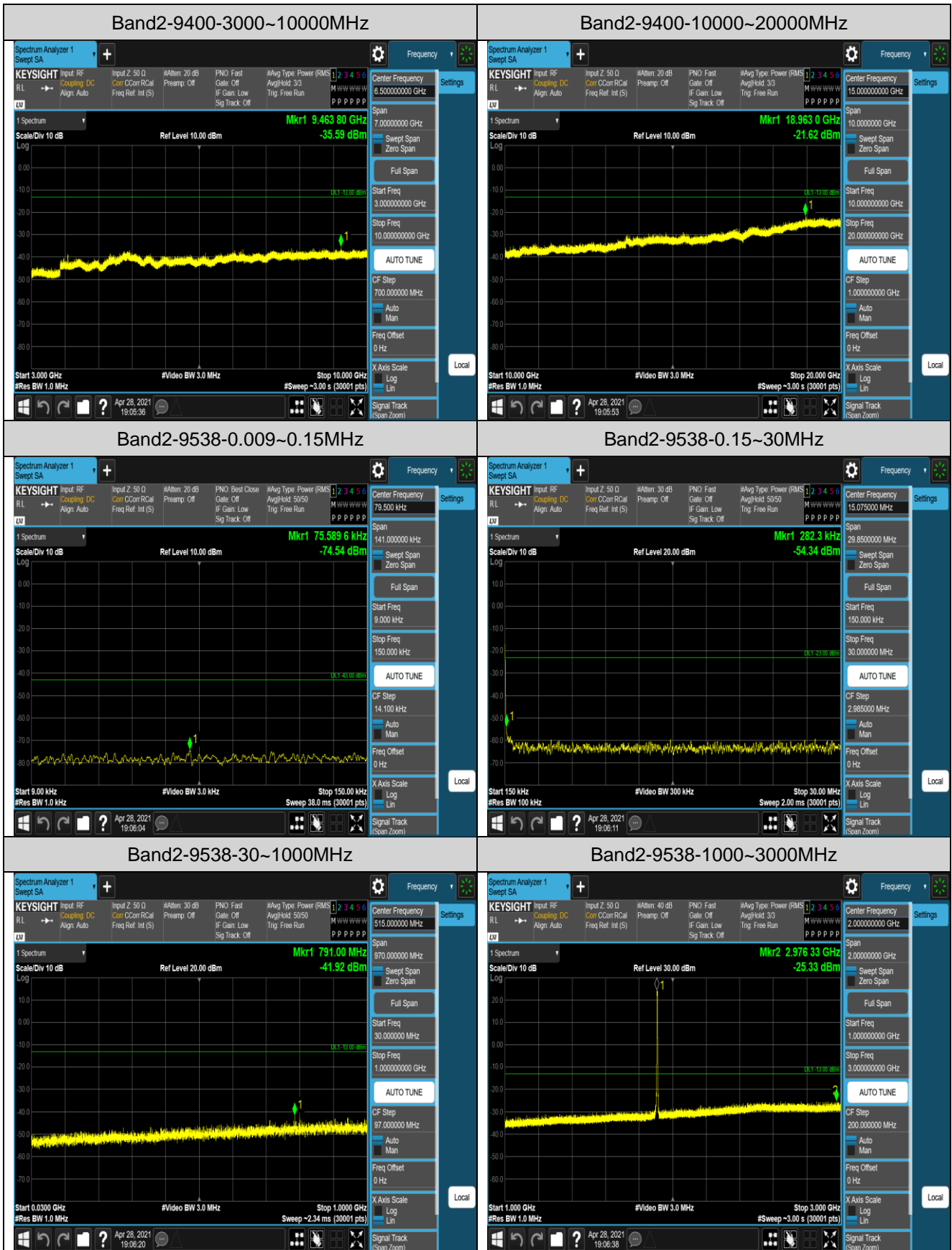
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.11	-74.5	-43	PASS
Band2	9262	0.15~30MHz	0.28	-52.69	-23	PASS
Band2	9262	30~1000MHz	915.51	-43.42	-13	PASS
Band2	9262	1000~3000MHz	2805.6	-25.01	-13	PASS
Band2	9262	3000~10000MHz	9837.6	-35.44	-13	PASS
Band2	9262	10000~20000MHz	19547	-21.36	-13	PASS
Band2	9400	0.009~0.15MHz	0.11	-74.65	-43	PASS
Band2	9400	0.15~30MHz	0.28	-54.67	-23	PASS
Band2	9400	30~1000MHz	899.15	-42.98	-13	PASS
Band2	9400	1000~3000MHz	2539.27	-24.96	-13	PASS
Band2	9400	3000~10000MHz	9463.8	-35.59	-13	PASS
Band2	9400	10000~20000MHz	18963	-21.62	-13	PASS
Band2	9538	0.009~0.15MHz	0.08	-74.54	-43	PASS
Band2	9538	0.15~30MHz	0.28	-54.34	-23	PASS
Band2	9538	30~1000MHz	791	-41.92	-13	PASS
Band2	9538	1000~3000MHz	2976.33	-25.34	-13	PASS
Band2	9538	3000~10000MHz	9933.5	-35.8	-13	PASS
Band2	9538	10000~20000MHz	19376	-21.77	-13	PASS
Band5	4132	0.009~0.15MHz	0.11	-74.98	-33	PASS
Band5	4132	0.15~30MHz	0.28	-54.28	-13	PASS
Band5	4132	30~1000MHz	998.32	-33.75	-13	PASS
Band5	4132	1000~3000MHz	2540.67	-33.49	-13	PASS
Band5	4132	3000~10000MHz	9172.83	-35.88	-13	PASS
Band5	4132	10000~18000MHz	17712.27	-38.9	-13	PASS
Band5	4183	0.009~0.15MHz	0.14	-74.89	-33	PASS
Band5	4183	0.15~30MHz	0.34	-56.2	-13	PASS
Band5	4183	30~1000MHz	983.96	-32.23	-13	PASS
Band5	4183	1000~3000MHz	2668.6	-33.81	-13	PASS
Band5	4183	3000~10000MHz	8773.37	-35.73	-13	PASS
Band5	4183	10000~18000MHz	17624.8	-38.86	-13	PASS
Band5	4233	0.009~0.15MHz	0.11	-74.93	-33	PASS

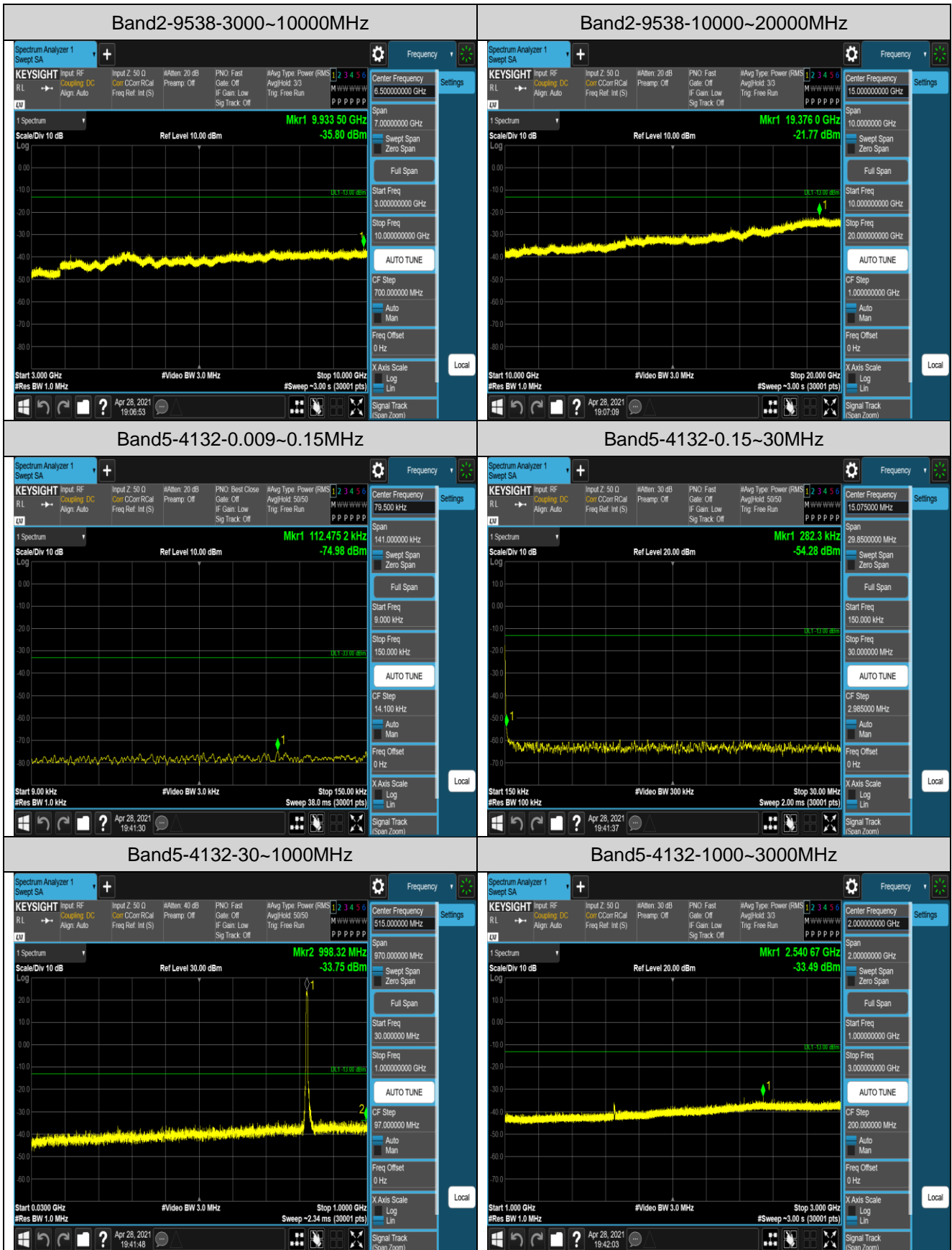
Band5	4233	0.15~30MHz	0.3	-53.64	-13	PASS
Band5	4233	30~1000MHz	966.31	-32.12	-13	PASS
Band5	4233	1000~3000MHz	2999.2	-34.43	-13	PASS
Band5	4233	3000~10000MHz	9938.4	-36	-13	PASS
Band5	4233	10000~18000MHz	17333.6	-38.72	PASS	

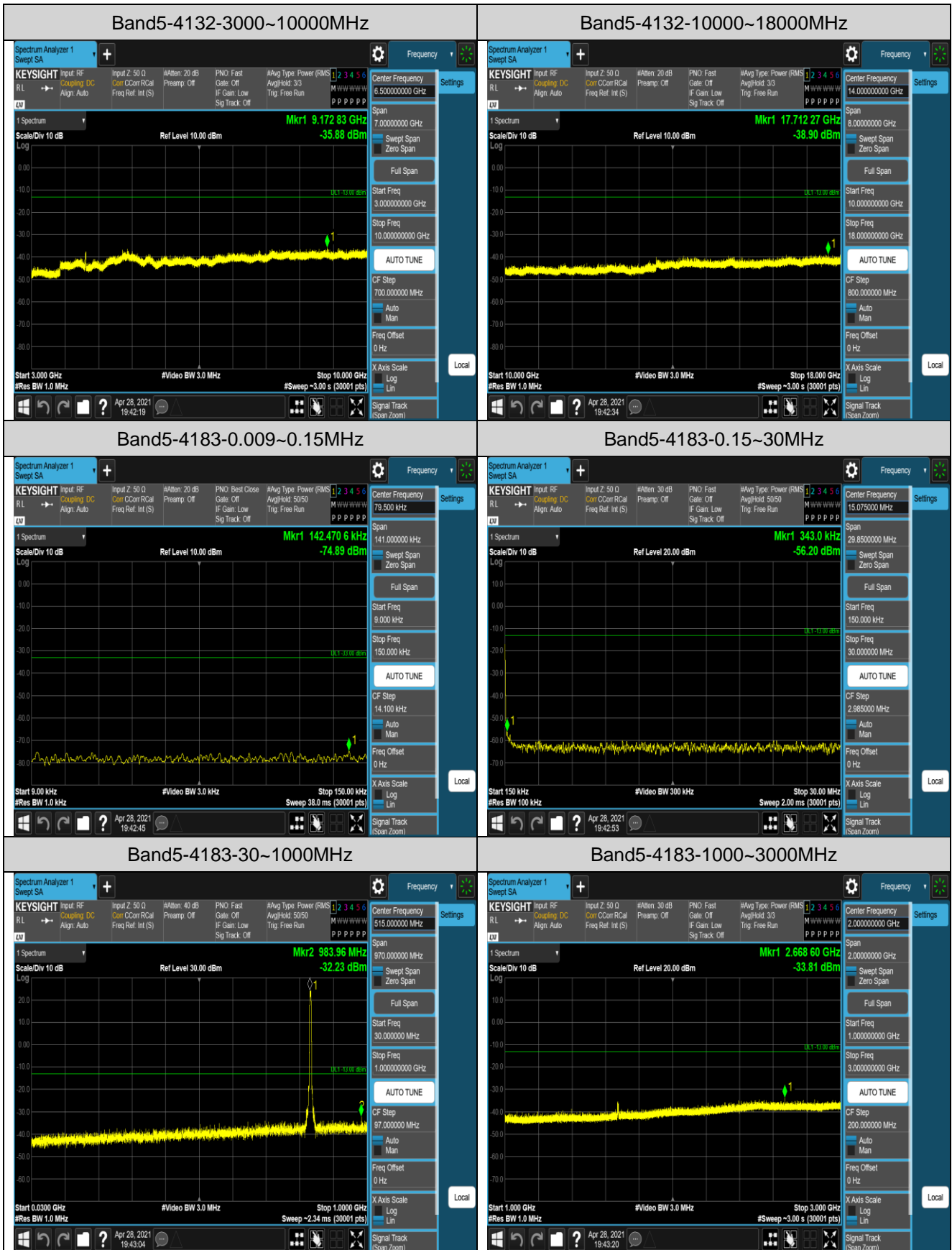
Test Graphs(WCDMA)

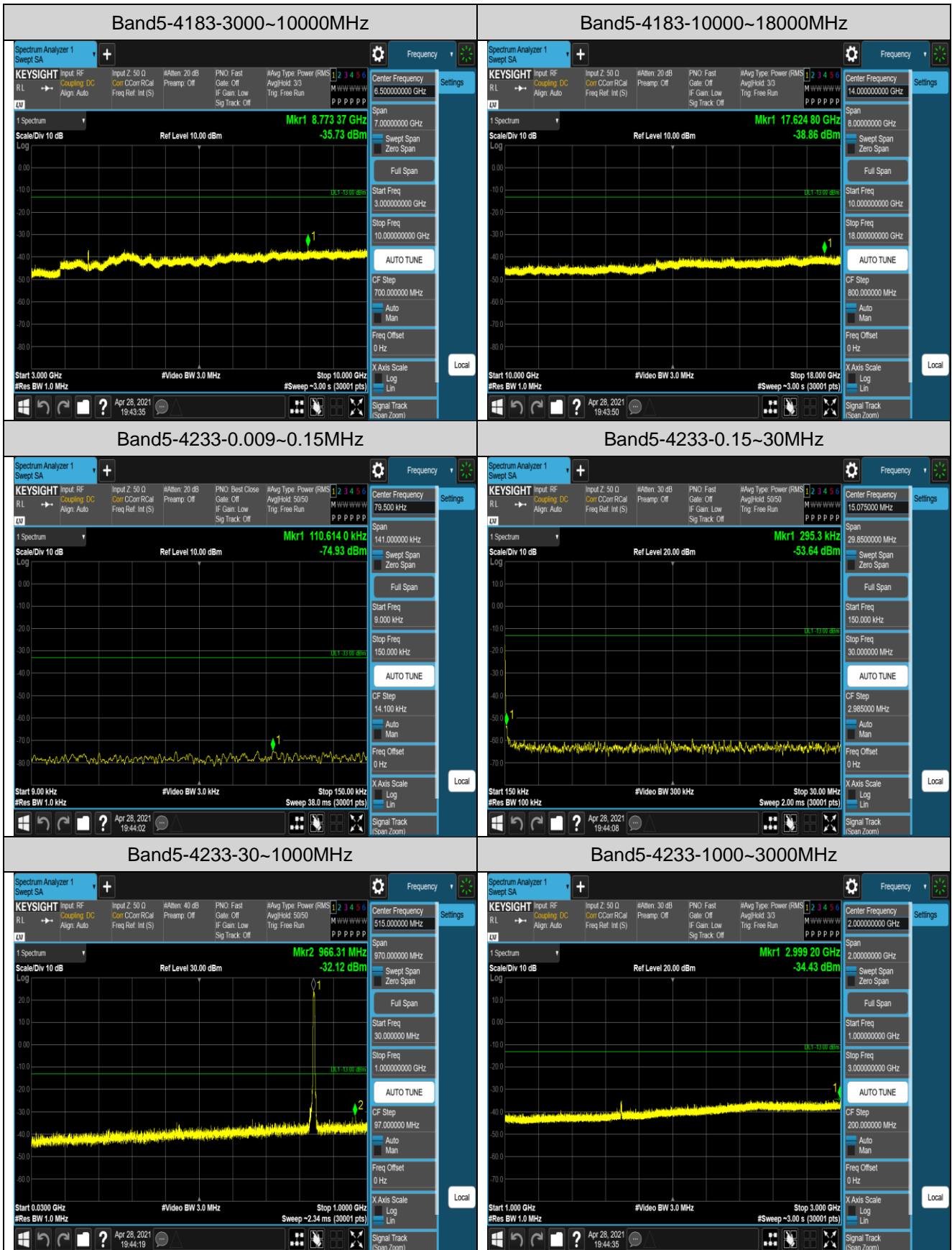


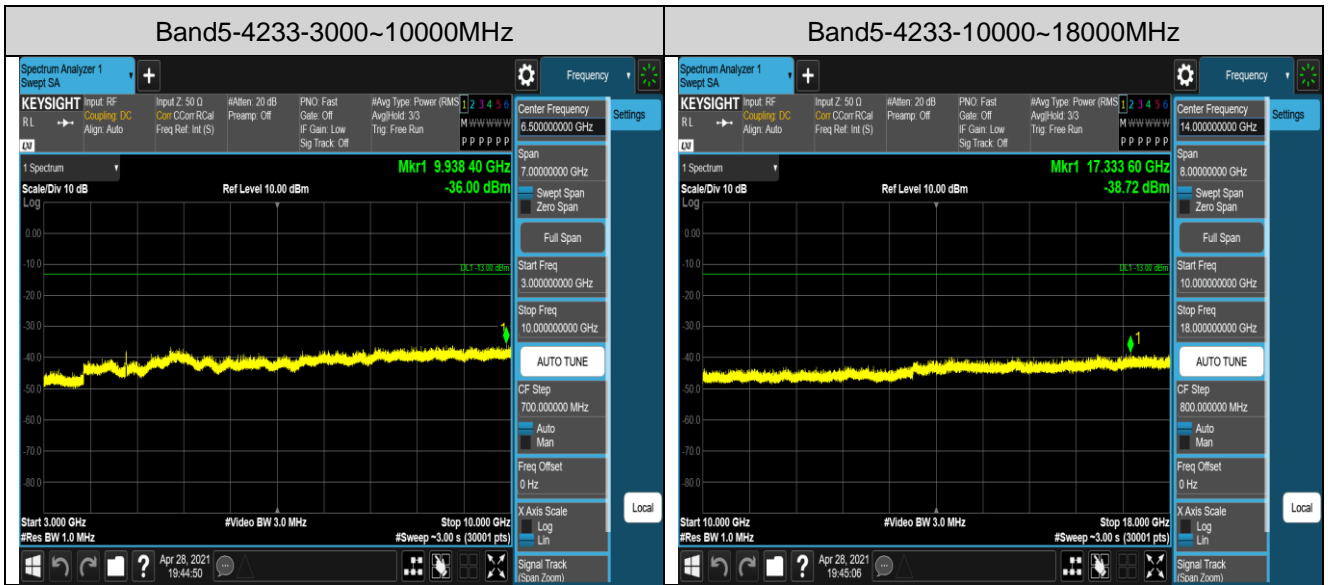












Appendix F: Frequency Stability

Test Result(WCDMA)

Reference Frequency: WCDMA BAND V 12.2k RMC Middle channel=4183 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	1.03	0.001231	±2.5	Pass
	-20	0.92	0.001100		
	-10	0.60	0.000717		
	0	0.98	0.001171		
	10	0.84	0.001004		
	20	0.93	0.001112		
	30	1.04	0.001243		
	40	1.04	0.001243		
	50	1.04	0.001243		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	1.08	0.001291	±2.5	Pass
	3.80	1.09	0.001303		
	4.18	1.14	0.001363		
<i>Note: Only the worst case shown in the report.</i>					

Reference Frequency: WCDMA BAND II 12.2k RMC Middle Frequency=9400 channel=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	0.71	0.000378	Within authorized band for BAND II	Pass
	-20	0.60	0.000319		
	-10	0.68	0.000362		
	0	0.99	0.000527		
	10	0.84	0.000447		
	20	1.28	0.000681		
	30	1.16	0.000617		
	40	1.10	0.000585		
	50	0.97	0.000516		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	0.21	0.000112	Within authorized band for BAND II	Pass
	3.80	0.06	0.000032		
	4.18	0.49	0.000261		
<i>Note: Only the worst case shown in the report.</i>					