

AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result(WCDMA)

Band	Type	Channel	Average Power (dBm)	Antenna Gain (dBi)	EIRP(dBm)	ERP/EIRP Limit (dBm)
Band2	Voice	9262	22.56	-1.20	21.36	33.00
Band2	RMC	9262	22.6	-1.20	21.40	33.00
Band2	Voice	9400	22.62	-1.20	21.42	33.00
Band2	RMC	9400	22.65	-1.20	21.45	33.00
Band2	Voice	9538	22.72	-1.20	21.52	33.00
Band2	RMC	9538	22.74	-1.20	21.54	33.00
Band5	Voice	4132	22.66	-2.50	18.01	38.45
Band5	RMC	4132	22.67	-2.50	18.02	38.45
Band5	Voice	4183	22.62	-2.50	17.97	38.45
Band5	RMC	4183	22.63	-2.50	17.98	38.45
Band5	Voice	4233	22.56	-2.50	17.91	38.45
Band5	RMC	4233	22.58	-2.50	17.93	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)	EIRP(dBm)	ERP/EIRP Limit (dBm)
Band2	HSDPA	9262	1	22.47	-1.20	21.27	33.00
Band2	HSDPA	9262	2	22.12	-1.20	20.92	33.00
Band2	HSDPA	9262	3	21.93	-1.20	20.73	33.00
Band2	HSDPA	9262	4	21.94	-1.20	20.74	33.00
Band2	HSDPA	9400	1	21.89	-1.20	20.69	33.00
Band2	HSDPA	9400	2	21.56	-1.20	20.36	33.00
Band2	HSDPA	9400	3	21.33	-1.20	20.13	33.00
Band2	HSDPA	9400	4	21.35	-1.20	20.15	33.00
Band2	HSDPA	9538	1	21.8	-1.20	20.60	33.00
Band2	HSDPA	9538	2	21.54	-1.20	20.34	33.00
Band2	HSDPA	9538	3	21.34	-1.20	20.14	33.00

Band2	HSDPA	9538	4	21.37	-1.20	20.17	33.00
Band5	HSDPA	4132	1	21.51	-2.50	16.86	38.45
Band5	HSDPA	4132	2	21.34	-2.50	16.69	38.45
Band5	HSDPA	4132	3	20.96	-2.50	16.31	38.45
Band5	HSDPA	4132	4	20.97	-2.50	16.32	38.45
Band5	HSDPA	4183	1	21.55	-2.50	16.9	38.45
Band5	HSDPA	4183	2	21.36	-2.50	16.71	38.45
Band5	HSDPA	4183	3	20.94	-2.50	16.29	38.45
Band5	HSDPA	4183	4	20.96	-2.50	16.31	38.45
Band5	HSDPA	4233	1	21.78	-2.50	17.13	38.45
Band5	HSDPA	4233	2	21.52	-2.50	16.87	38.45
Band5	HSDPA	4233	3	21.11	-2.50	16.46	38.45
Band5	HSDPA	4233	4	21.12	-2.50	16.47	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)	EIRP(dBm)	ERP/EIRP Limit (dBm)
Band2	HSUPA	9262	1	20.03	-1.20	18.83	33.00
Band2	HSUPA	9262	2	20.48	-1.20	19.28	33.00
Band2	HSUPA	9262	3	19.96	-1.20	18.76	33.00
Band2	HSUPA	9262	4	20.28	-1.20	19.08	33.00
Band2	HSUPA	9262	5	22.5	-1.20	21.30	33.00
Band2	HSUPA	9400	1	19.48	-1.20	18.28	33.00
Band2	HSUPA	9400	2	19.93	-1.20	18.73	33.00
Band2	HSUPA	9400	3	19.39	-1.20	18.19	33.00
Band2	HSUPA	9400	4	19.77	-1.20	18.57	33.00
Band2	HSUPA	9400	5	21.93	-1.20	20.73	33.00
Band2	HSUPA	9538	1	19.64	-1.20	18.44	33.00
Band2	HSUPA	9538	2	20.1	-1.20	18.90	33.00
Band2	HSUPA	9538	3	19.59	-1.20	18.39	33.00
Band2	HSUPA	9538	4	19.95	-1.20	18.75	33.00
Band2	HSUPA	9538	5	21.95	-1.20	20.75	33.00
Band5	HSUPA	4132	1	20.01	-2.50	15.36	38.45

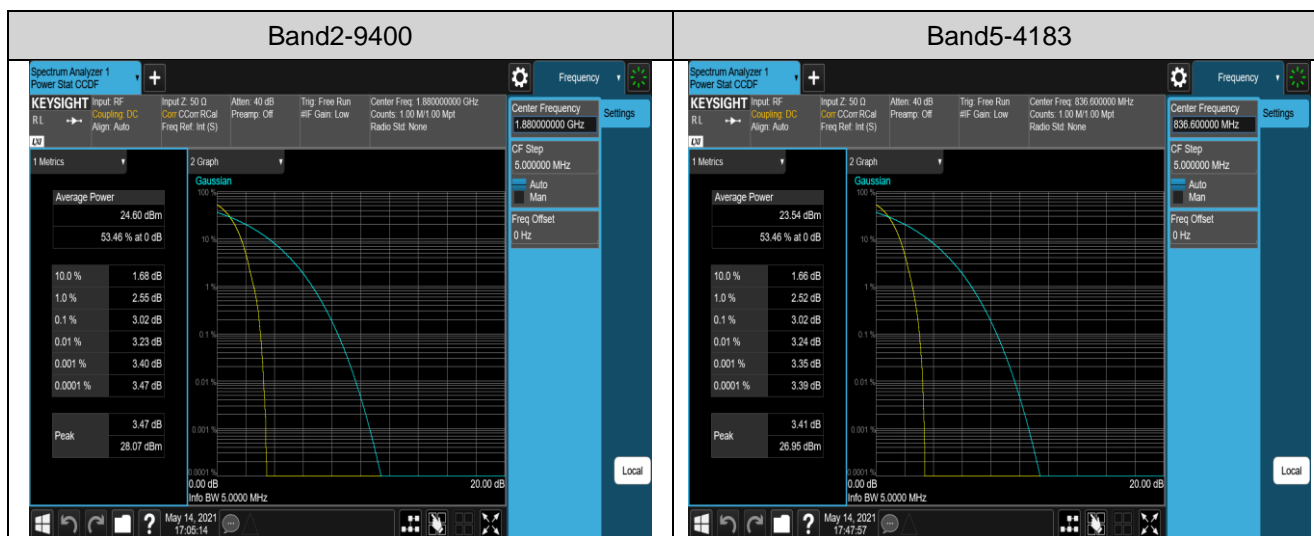
Band5	HSUPA	4132	2	20.14	-2.50	15.49	38.45
Band5	HSUPA	4132	3	19.64	-2.50	14.99	38.45
Band5	HSUPA	4132	4	19.48	-2.50	14.83	38.45
Band5	HSUPA	4132	5	21.45	-2.50	16.8	38.45
Band5	HSUPA	4183	1	20.25	-2.50	15.6	38.45
Band5	HSUPA	4183	2	20.36	-2.50	15.71	38.45
Band5	HSUPA	4183	3	19.92	-2.50	15.27	38.45
Band5	HSUPA	4183	4	19.67	-2.50	15.02	38.45
Band5	HSUPA	4183	5	21.45	-2.50	16.8	38.45
Band5	HSUPA	4233	1	20.32	-2.50	15.67	38.45
Band5	HSUPA	4233	2	20.45	-2.50	15.8	38.45
Band5	HSUPA	4233	3	19.97	-2.50	15.32	38.45
Band5	HSUPA	4233	4	19.7	-2.50	15.05	38.45
Band5	HSUPA	4233	5	21.62	-2.50	16.97	38.45
<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	3.02	13	PASS
Band5	4183	3.02	13	PASS

Test Graphs(WCDMA)

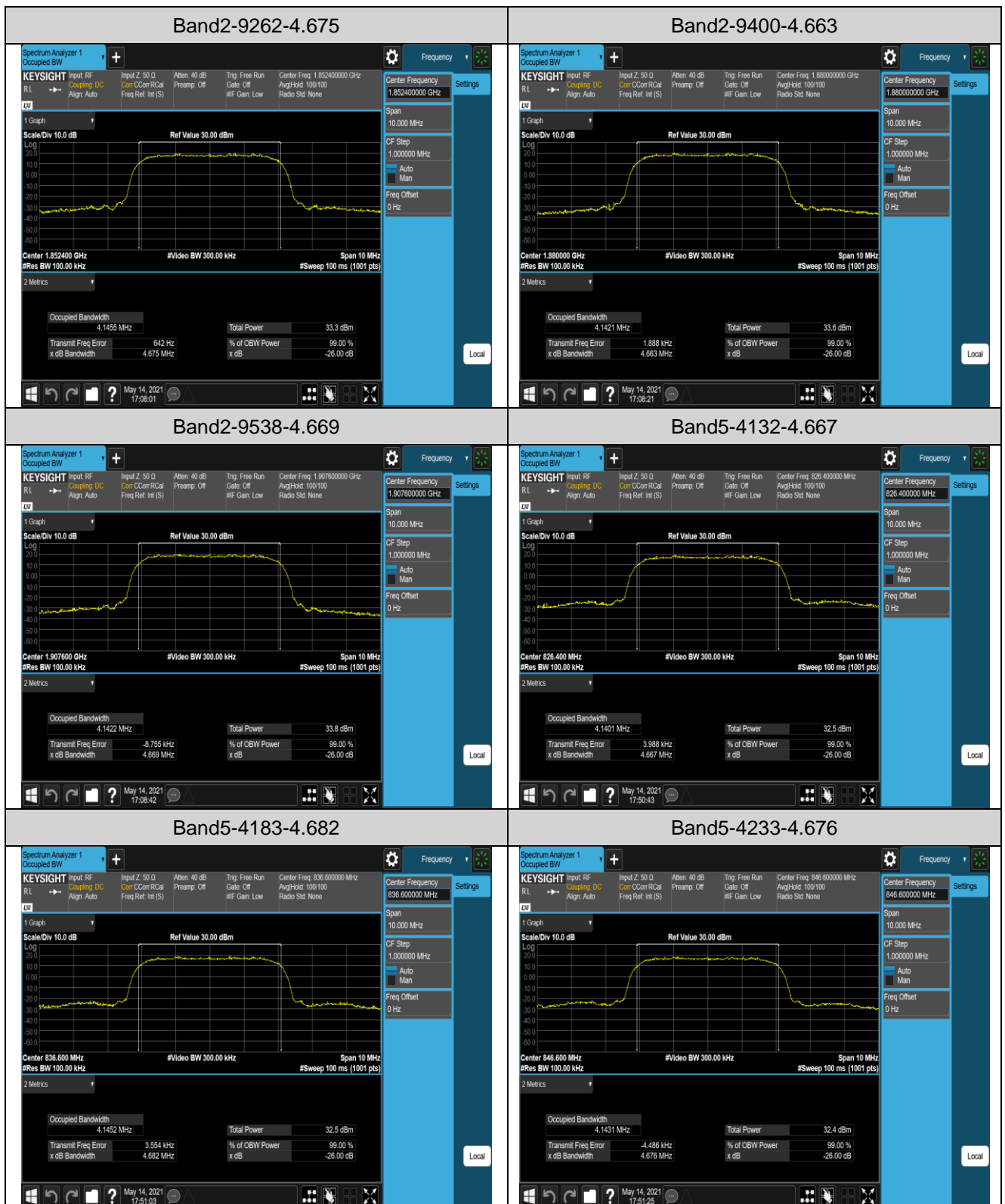


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1455	4.675	---	PASS
Band2	9400	4.1421	4.663	---	PASS
Band2	9538	4.1422	4.669	---	PASS
Band5	4132	4.1401	4.667	---	PASS
Band5	4183	4.1452	4.682	---	PASS
Band5	4233	4.1431	4.676	---	PASS

Test Graphs(WCDMA)

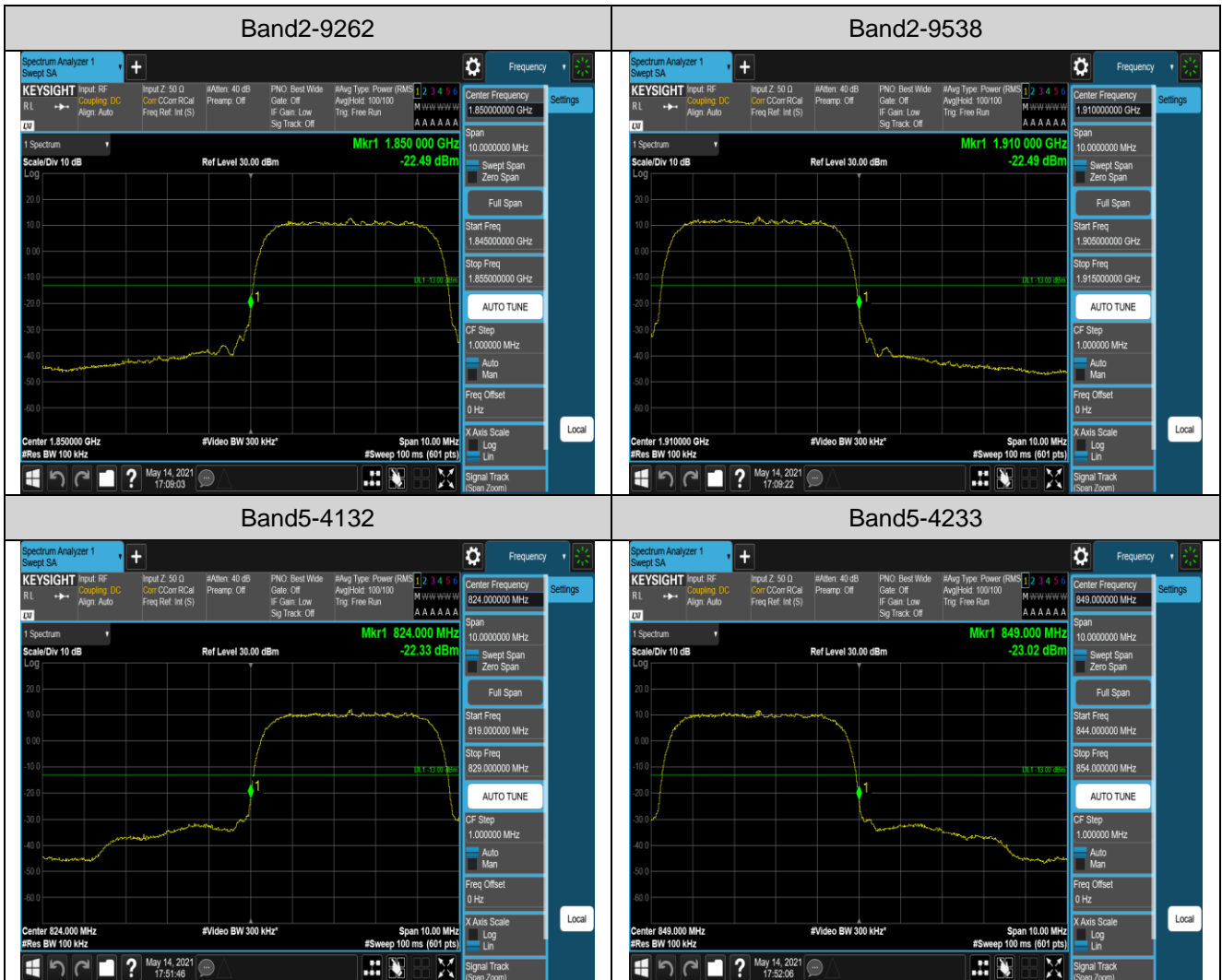


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-22.49	-13	PASS
Band2	9538	1910.00	-22.49	-13	PASS
Band5	4132	824.00	-22.33	-13	PASS
Band5	4233	849.00	-23.02	-13	PASS

Test Graphs(WCDMA)



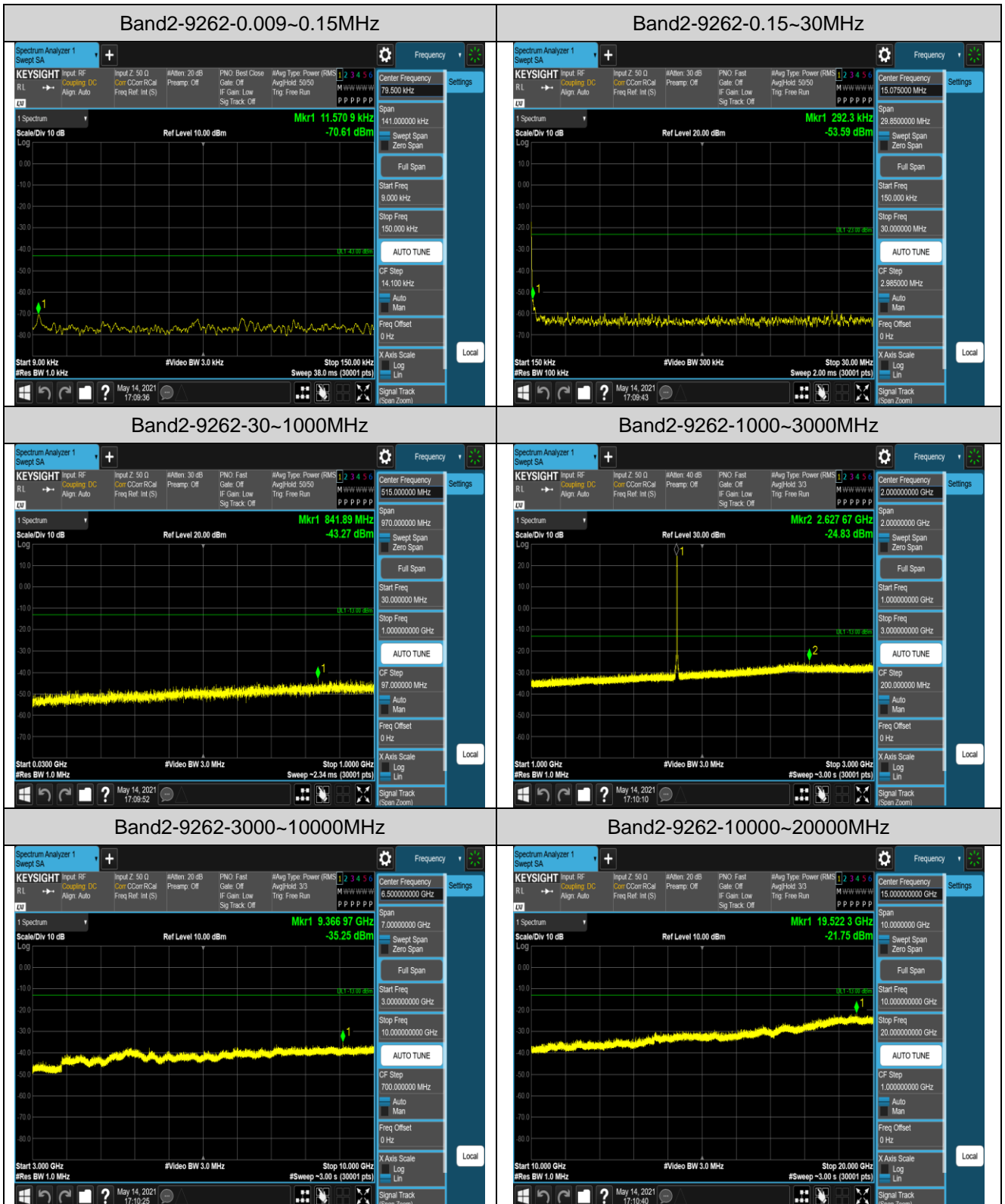
Appendix E: Conducted Spurious Emission

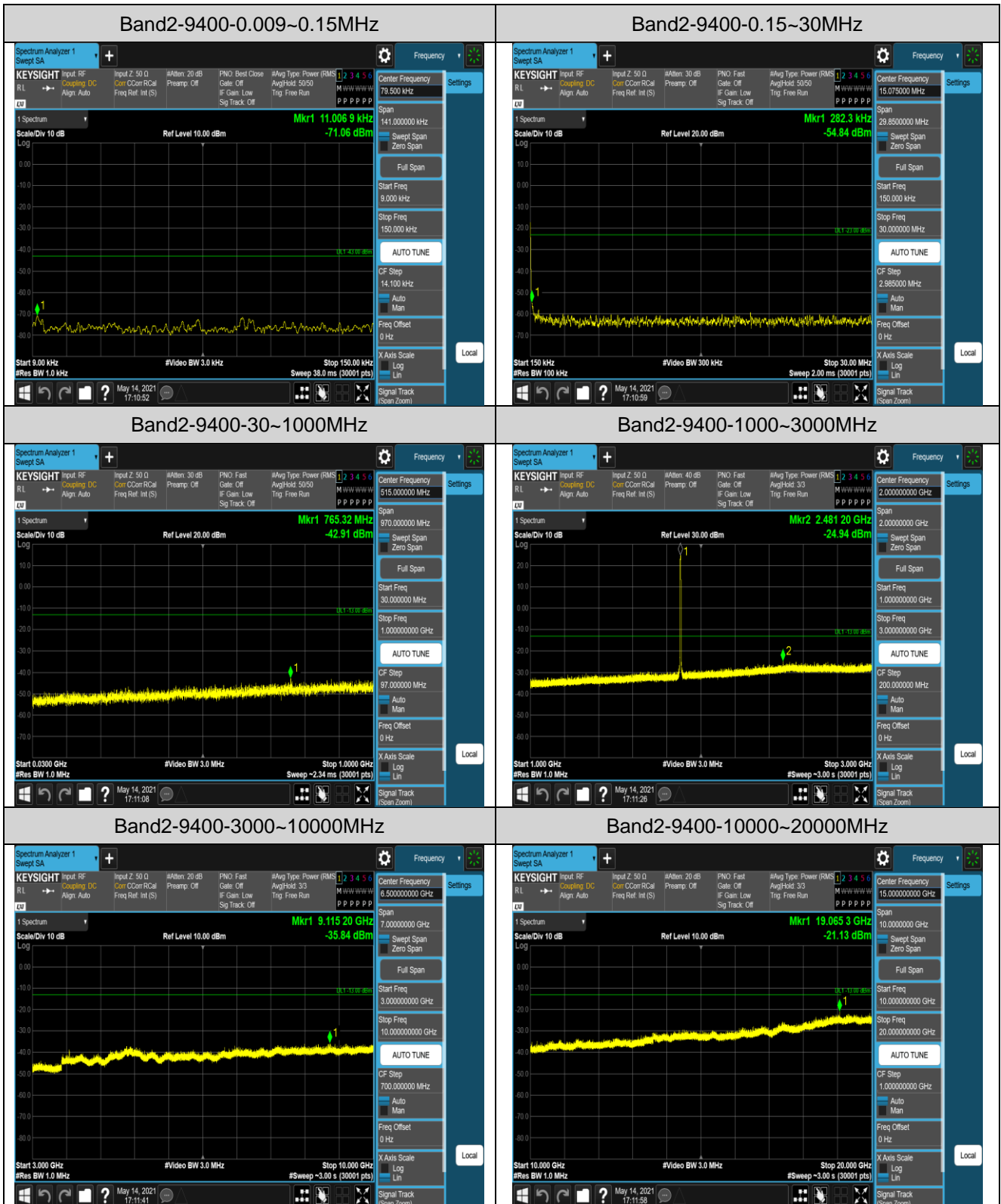
Test Result (WCDMA)

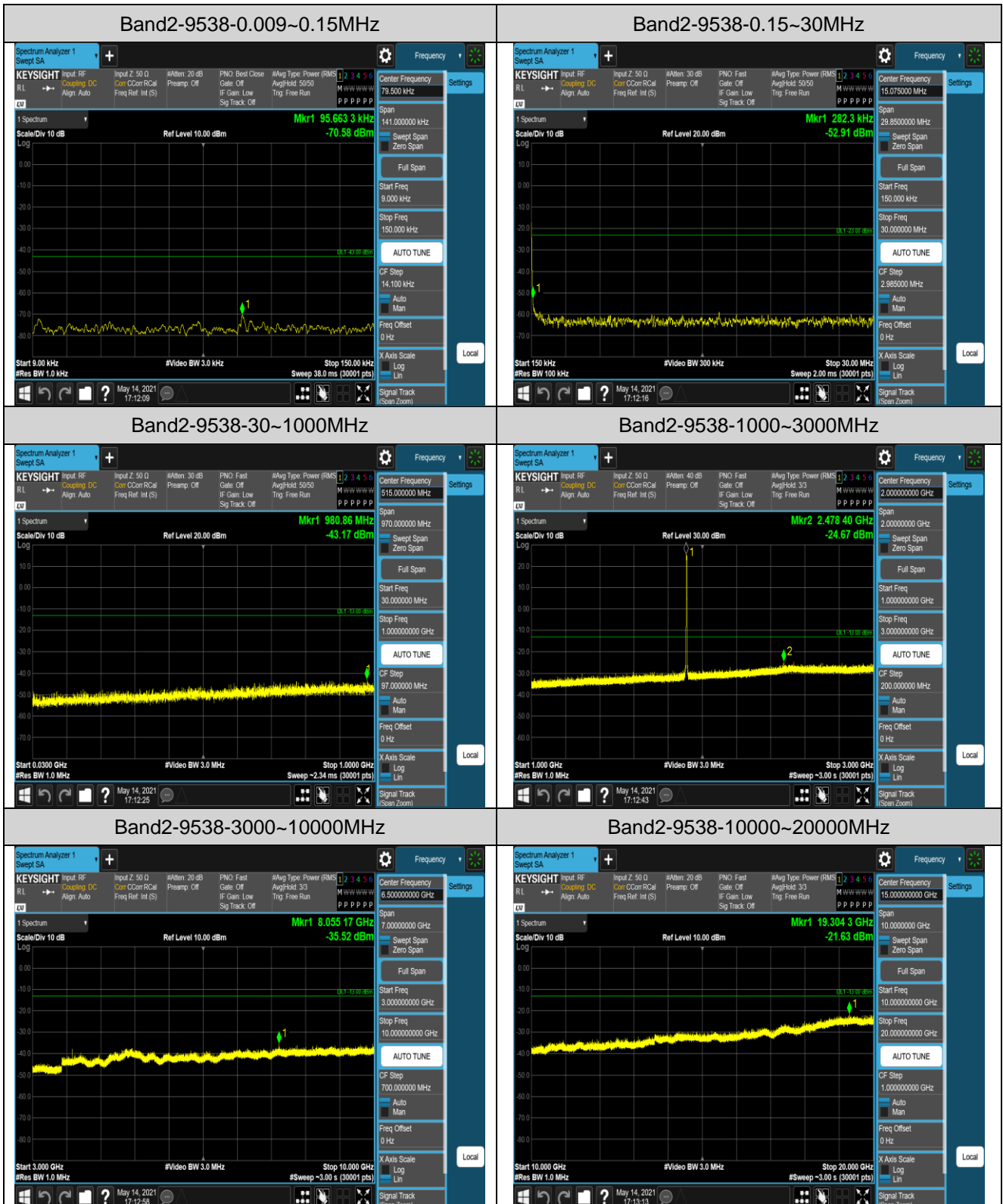
Band	Channel	Frequency Range (MHz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-70.61	-43	PASS
Band2	9262	0.15~30MHz	0.29	-53.59	-23	PASS
Band2	9262	30~1000MHz	841.89	-43.27	-13	PASS
Band2	9262	1000~3000MHz	2627.67	-24.84	-13	PASS
Band2	9262	3000~10000MHz	9366.97	-35.25	-13	PASS
Band2	9262	10000~20000MHz	19522.33	-21.75	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-71.06	-43	PASS
Band2	9400	0.15~30MHz	0.28	-54.84	-23	PASS
Band2	9400	30~1000MHz	765.32	-42.91	-13	PASS
Band2	9400	1000~3000MHz	2481.2	-24.94	-13	PASS
Band2	9400	3000~10000MHz	9115.2	-35.84	-13	PASS
Band2	9400	10000~20000MHz	19065.33	-21.14	-13	PASS
Band2	9538	0.009~0.15MHz	0.1	-70.58	-43	PASS
Band2	9538	0.15~30MHz	0.28	-52.91	-23	PASS
Band2	9538	30~1000MHz	980.86	-43.17	-13	PASS
Band2	9538	1000~3000MHz	2478.4	-24.67	-13	PASS
Band2	9538	3000~10000MHz	8055.17	-35.52	-13	PASS
Band2	9538	10000~20000MHz	19304.33	-21.63	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-70.68	-33	PASS
Band5	4132	0.15~30MHz	0.32	-54.23	-13	PASS
Band5	4132	30~1000MHz	963.95	-32.84	-13	PASS
Band5	4132	1000~3000MHz	2646.8	-34.24	-13	PASS
Band5	4132	3000~10000MHz	3302.17	-34.2	-13	PASS
Band5	4132	10000~18000MHz	17758.13	-38.56	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-70.42	-33	PASS
Band5	4183	0.15~30MHz	0.28	-55.92	-13	PASS
Band5	4183	30~1000MHz	940.54	-32.86	-13	PASS
Band5	4183	1000~3000MHz	2563.47	-33.87	-13	PASS
Band5	4183	3000~10000MHz	3349.53	-32.82	-13	PASS
Band5	4183	10000~18000MHz	17478.4	-38.03	-13	PASS
Band5	4233	0.009~0.15MHz	0.13	-71.5	-33	PASS

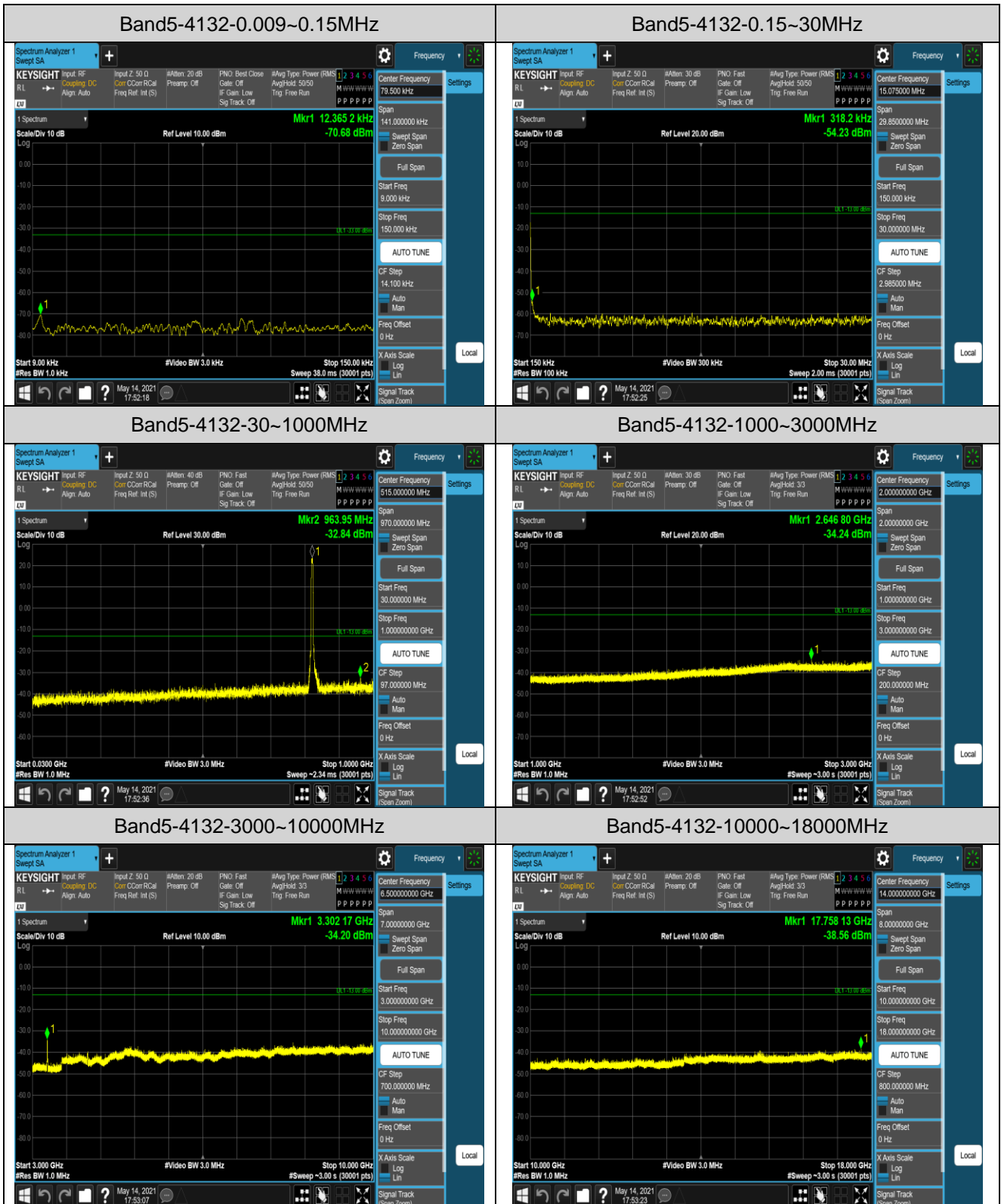
Band5	4233	0.15~30MHz	0.29	-53.32	-13	PASS
Band5	4233	30~1000MHz	989.98	-32.8	-13	PASS
Band5	4233	1000~3000MHz	2459.8	-34.22	-13	PASS
Band5	4233	3000~10000MHz	3390.13	-31.18	-13	PASS
Band5	4233	10000~18000MHz	17642.93	-38.32	-13	PASS

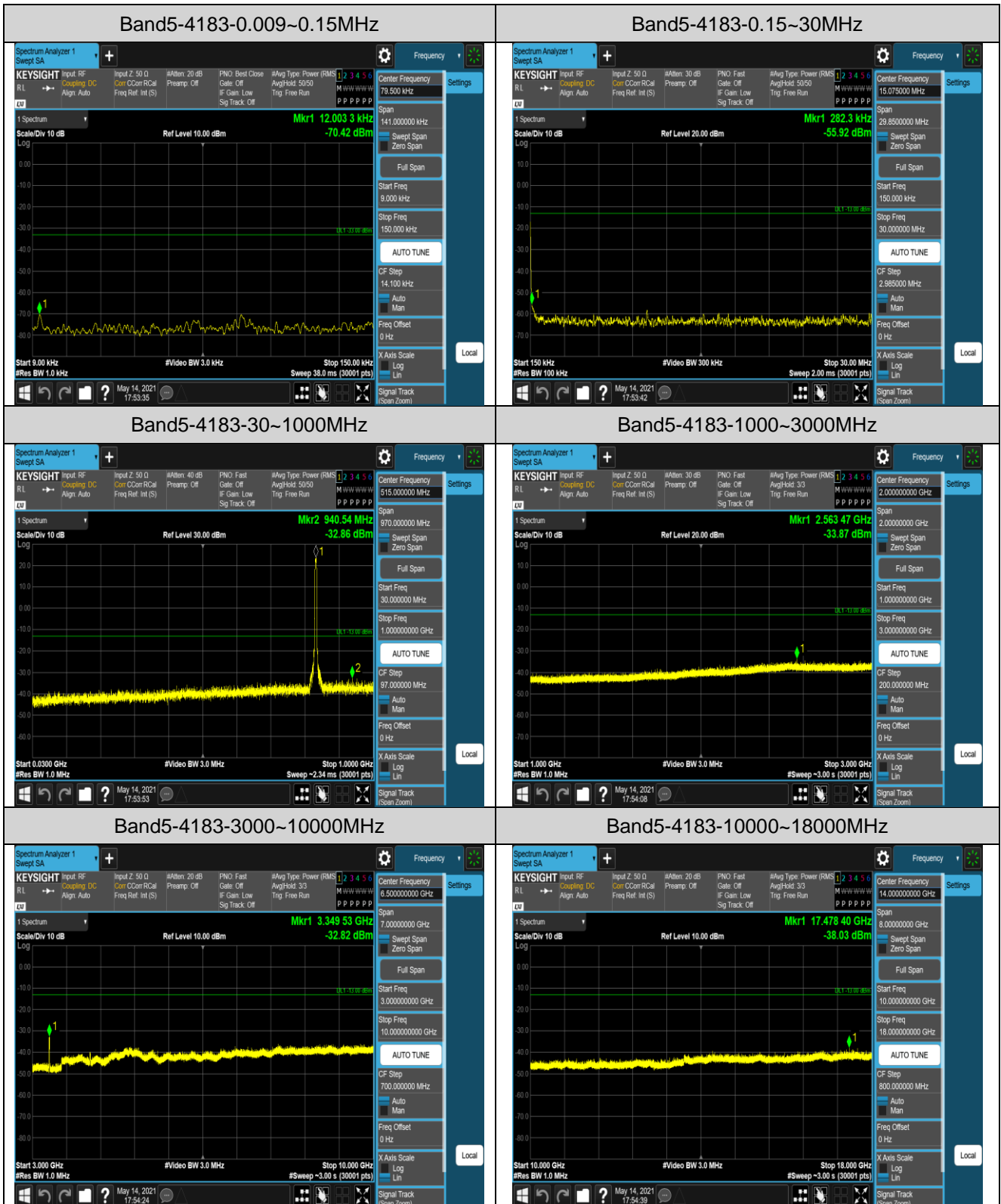
Test Graphs(WCDMA)

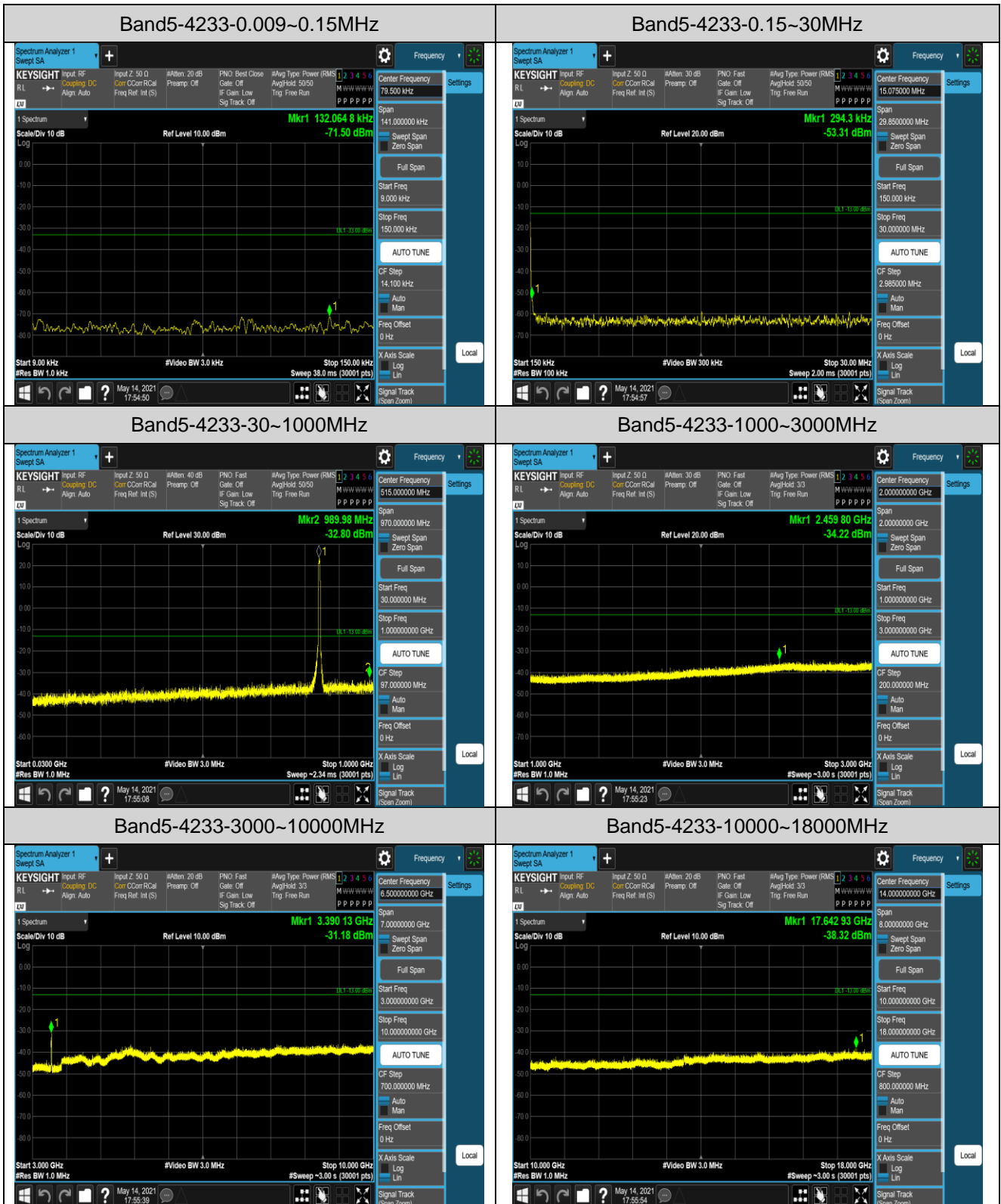












Appendix F: Frequency Stability

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	0.68	0.000813	±2.5	Pass
	-20	0.09	0.000108		
	-10	-0.24	-0.000287		
	0	-0.63	-0.000753		
	10	1.52	0.001817		
	20	0.87	0.001040		
	30	2.07	0.002474		
	40	-0.03	-0.000036		
	50	-0.48	-0.000574		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	0.36	0.000430	±2.5	Pass
	3.80	-0.82	-0.000980		
	4.18	-0.61	-0.000729		
<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	-1.08	-0.000574	Within authorized band for BAND II	Pass
	-20	0.41	0.000218		
	-10	4.08	0.002170		
	0	4.56	0.002426		
	10	-9.11	-0.004846		
	20	-5.79	-0.003080		
	30	0.49	0.000261		
	40	4.37	0.002324		
	50	8.11	0.004314		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-2.07	-0.001101	Within authorized band for BAND II	Pass
	3.80	-1.59	-0.000846		
	4.18	2.22	0.001181		
<i>Note: Only the worst case shown in the report.</i>					