

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	18.93	1.50	20.43	33.00
Band2	RMC	9262	20.80	1.50	22.30	33.00
Band2	Voice	9400	19.46	1.50	20.96	33.00
Band2	RMC	9400	20.74	1.50	22.24	33.00
Band2	Voice	9538	19.72	1.50	21.22	33.00
Band2	RMC	9538	21.08	1.50	22.58	33.00
Band5	Voice	4132	22.05	-0.70	19.20	38.45
Band5	RMC	4132	22.57	-0.70	19.72	38.45
Band5	Voice	4183	21.95	-0.70	19.10	38.45
Band5	RMC	4183	22.66	-0.70	19.81	38.45
Band5	Voice	4233	22.01	-0.70	19.16	38.45
Band5	RMC	4233	22.58	-0.70	19.73	38.45

Note: $EIRP (dBm) = Average\ power (dBm) + Antenna\ Gain (dBi)$.
 $ERP (dBm) = EIRP (dBm) - 2.15 (dB)$.

Test Result(HSDPA)

Band	Type	Channel	SubTest	Average Power (dBm)	Antenna Gain (dBi)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)
Band2	HSDPA	9262	1	19.98	1.50	21.48	33.00
Band2	HSDPA	9262	2	19.83	1.50	21.33	33.00
Band2	HSDPA	9262	3	18.72	1.50	20.22	33.00
Band2	HSDPA	9262	4	19.29	1.50	20.79	33.00
Band2	HSDPA	9400	1	19.57	1.50	21.07	33.00
Band2	HSDPA	9400	2	19.11	1.50	20.61	33.00
Band2	HSDPA	9400	3	18.01	1.50	19.51	33.00
Band2	HSDPA	9400	4	18.39	1.50	19.89	33.00
Band2	HSDPA	9538	1	20.48	1.50	21.98	33.00
Band2	HSDPA	9538	2	19.88	1.50	21.38	33.00
Band2	HSDPA	9538	3	19.26	1.50	20.76	33.00

Band2	HSDPA	9538	4	19.45	1.50	20.95	33.00
Band5	HSDPA	4132	1	20.40	-0.70	17.55	38.45
Band5	HSDPA	4132	2	19.14	-0.70	16.29	38.45
Band5	HSDPA	4132	3	20.11	-0.70	17.26	38.45
Band5	HSDPA	4132	4	20.38	-0.70	17.53	38.45
Band5	HSDPA	4183	1	20.83	-0.70	17.98	38.45
Band5	HSDPA	4183	2	20.63	-0.70	17.78	38.45
Band5	HSDPA	4183	3	20.68	-0.70	17.83	38.45
Band5	HSDPA	4183	4	20.63	-0.70	17.78	38.45
Band5	HSDPA	4233	1	20.54	-0.70	17.69	38.45
Band5	HSDPA	4233	2	19.91	-0.70	17.06	38.45
Band5	HSDPA	4233	3	20.25	-0.70	17.4	38.45
Band5	HSDPA	4233	4	20.18	-0.70	17.33	38.45

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). (For WCDMA Band 2)
 ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For WCDMA Band 5)

Test Result(HSUPA)

Band	Type	Channel	SubTest	Average Power (dBm)	Antenna Gain (dBi)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)
Band2	HSDPA	9262	1	16.36	1.50	21.48	33.00
Band2	HSDPA	9262	2	16.83	1.50	21.33	33.00
Band2	HSDPA	9262	3	16.34	1.50	20.22	33.00
Band2	HSDPA	9262	4	16.67	1.50	20.79	33.00
Band2	HSDPA	9400	1	18.76	1.50	21.07	33.00
Band2	HSDPA	9400	2	15.29	1.50	20.61	33.00
Band2	HSDPA	9400	3	15.75	1.50	19.51	33.00
Band2	HSDPA	9400	4	15.24	1.50	19.89	33.00
Band2	HSDPA	9538	1	15.58	1.50	21.98	33.00
Band2	HSDPA	9538	2	17.74	1.50	21.38	33.00
Band2	HSDPA	9538	3	15.85	1.50	20.76	33.00
Band2	HSDPA	9538	4	16.30	1.50	20.95	33.00
Band2	HSUPA	9262	1	16.36	1.50	17.86	33.00
Band2	HSUPA	9262	2	16.83	1.50	18.33	33.00
Band2	HSUPA	9262	3	16.34	1.50	17.84	33.00

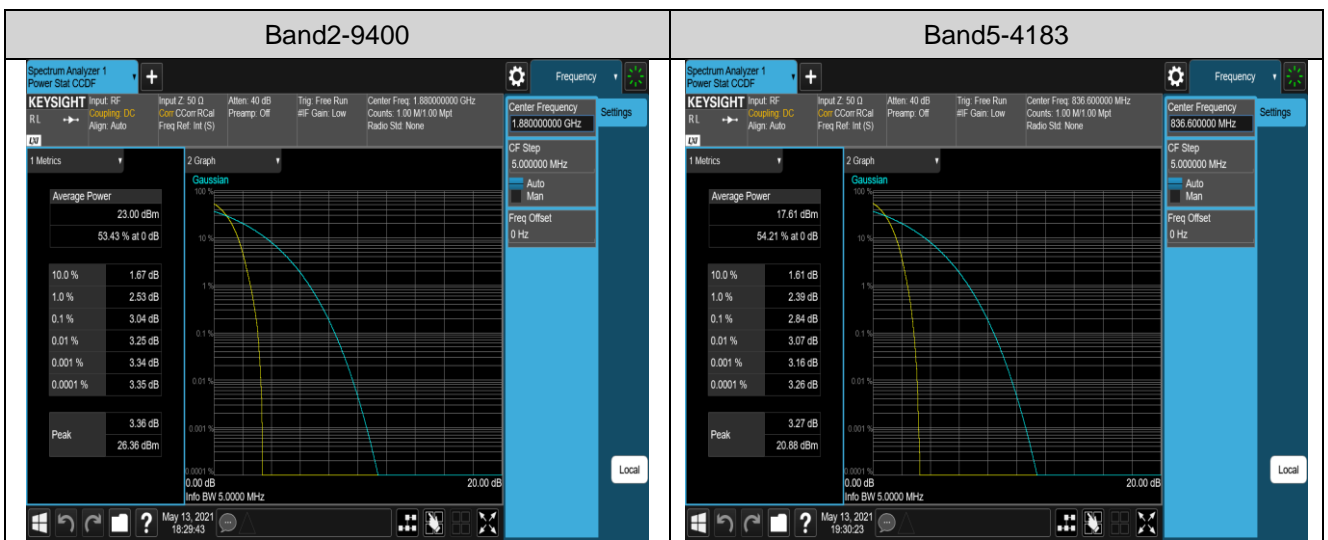
Band2	HSUPA	9262	4	16.67	1.50	18.17	33.00
Band2	HSUPA	9262	5	18.76	1.50	20.26	33.00
Band2	HSUPA	9400	1	15.29	1.50	16.79	33.00
Band2	HSUPA	9400	2	15.75	1.50	17.25	33.00
Band2	HSUPA	9400	3	15.24	1.50	16.74	33.00
Band2	HSUPA	9400	4	15.58	1.50	17.08	33.00
Band2	HSUPA	9400	5	17.74	1.50	19.24	33.00
Band2	HSUPA	9538	1	15.85	1.50	17.35	33.00
Band2	HSUPA	9538	2	16.30	1.50	17.80	33.00
Band2	HSUPA	9538	3	15.77	1.50	17.27	33.00
Band2	HSUPA	9538	4	16.10	1.50	17.60	33.00
Band2	HSUPA	9538	5	18.18	1.50	19.68	33.00
Band5	HSUPA	4132	1	19.62	-0.70	16.77	38.45
Band5	HSUPA	4132	2	19.66	-0.70	16.81	38.45
Band5	HSUPA	4132	3	19.18	-0.70	16.33	38.45
Band5	HSUPA	4132	4	19.00	-0.70	16.15	38.45
Band5	HSUPA	4132	5	21.17	-0.70	18.32	38.45
Band5	HSUPA	4183	1	20.02	-0.70	17.17	38.45
Band5	HSUPA	4183	2	20.13	-0.70	17.28	38.45
Band5	HSUPA	4183	3	19.71	-0.70	16.86	38.45
Band5	HSUPA	4183	4	19.54	-0.70	16.69	38.45
Band5	HSUPA	4183	5	21.39	-0.70	18.54	38.45
Band5	HSUPA	4233	1	19.49	-0.70	16.64	38.45
Band5	HSUPA	4233	2	19.56	-0.70	16.71	38.45
Band5	HSUPA	4233	3	19.12	-0.70	16.27	38.45
Band5	HSUPA	4233	4	18.97	-0.70	16.12	38.45
Band5	HSUPA	4233	5	20.95	-0.70	18.1	38.45
<p><i>Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). (For WCDMA Band 2)</i></p> <p><i>ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For WCDMA Band 5)</i></p>							

Appendix B: Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.04	13	PASS
Band5	4183	2.84	13	PASS

Test Graphs(WCDMA)

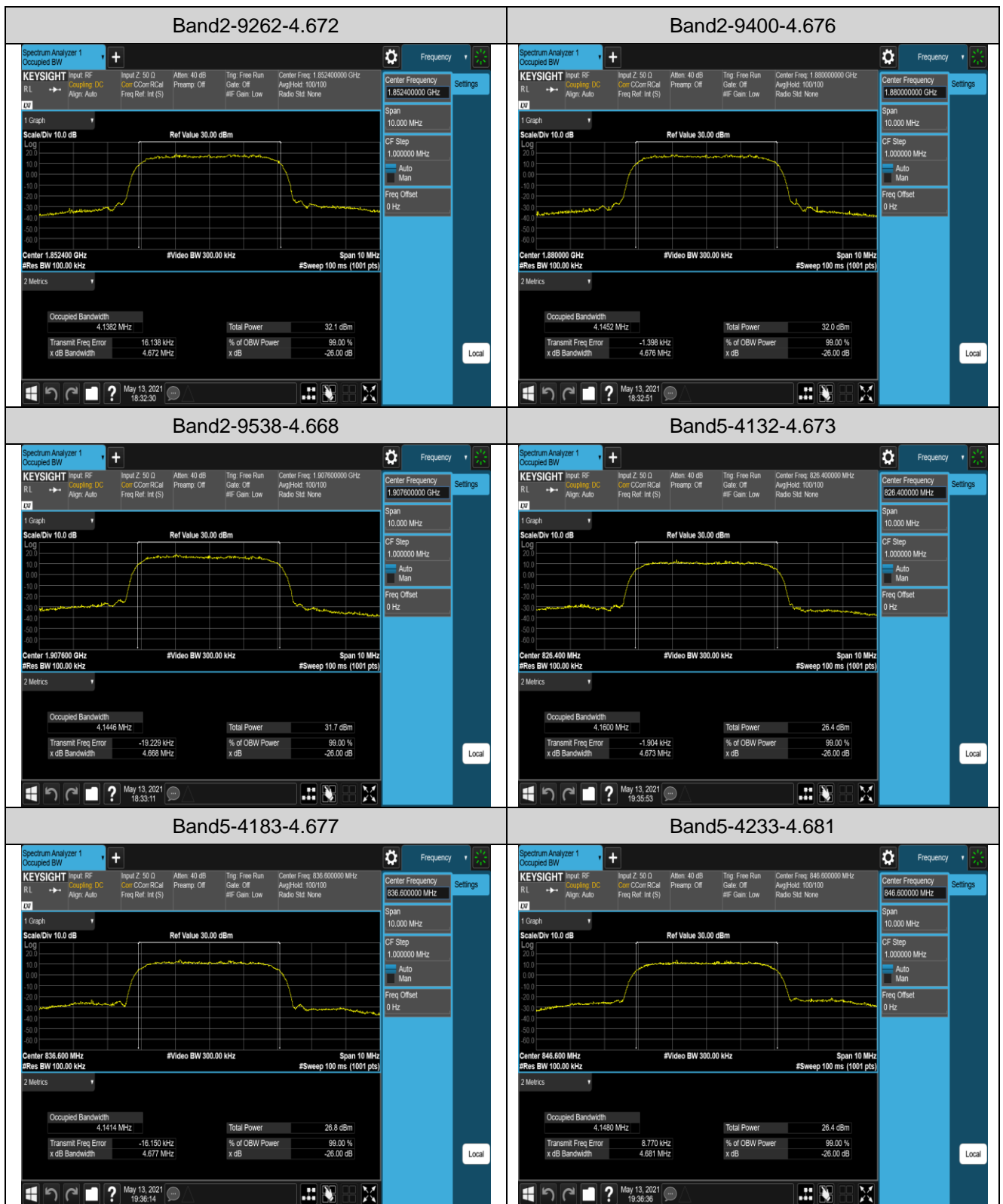


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1382	4.672	---	PASS
Band2	9400	4.1452	4.676	---	PASS
Band2	9538	4.1446	4.668	---	PASS
Band5	4132	4.1600	4.673	---	PASS
Band5	4183	4.1414	4.677	---	PASS
Band5	4233	4.1480	4.681	---	PASS

Test Graphs(WCDMA)

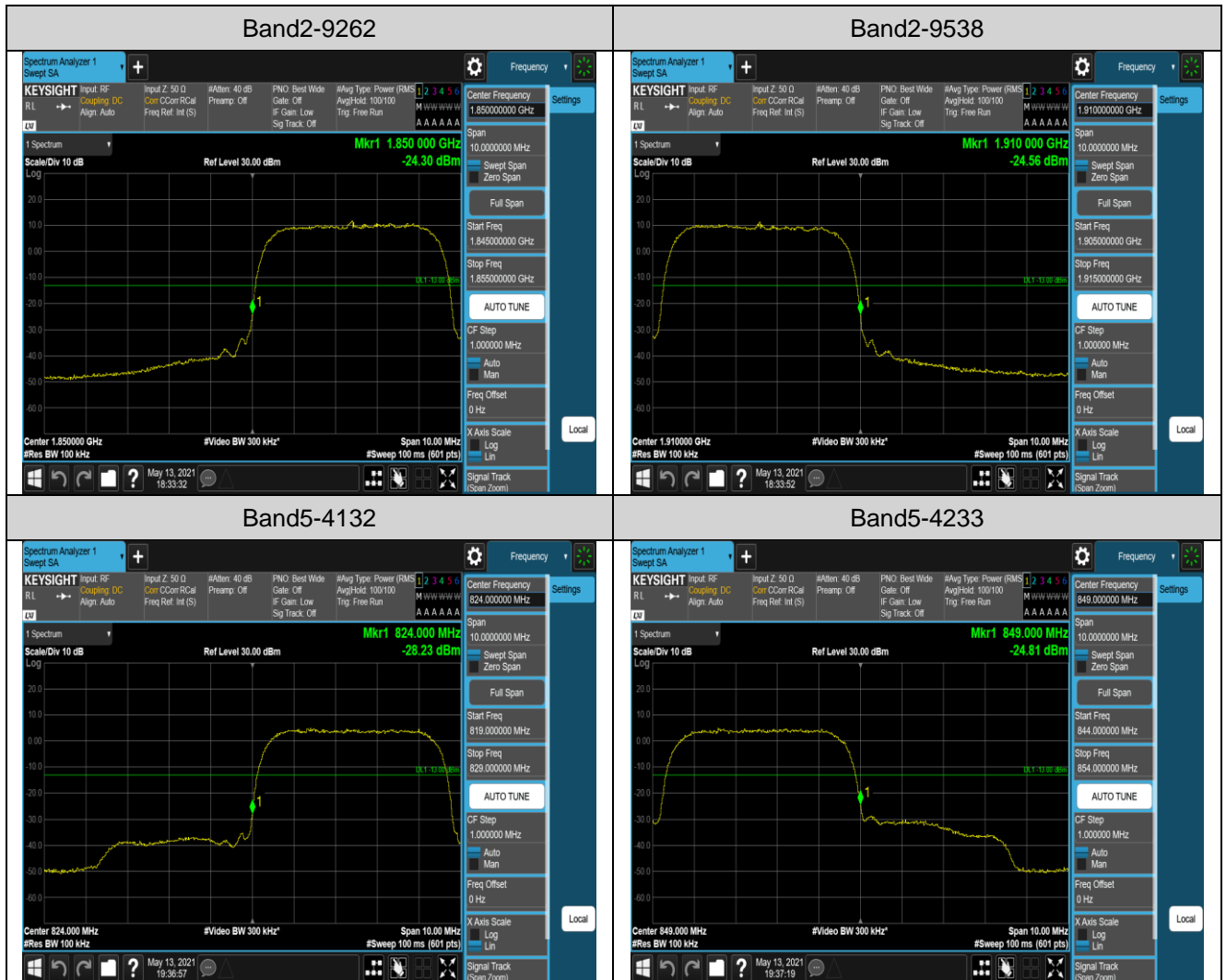


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-24.30	-13	PASS
Band2	9538	1910.00	-24.56	-13	PASS
Band5	4132	824.00	-28.23	-13	PASS
Band5	4233	849.00	-24.81	-13	PASS

Test Graphs(WCDMA)



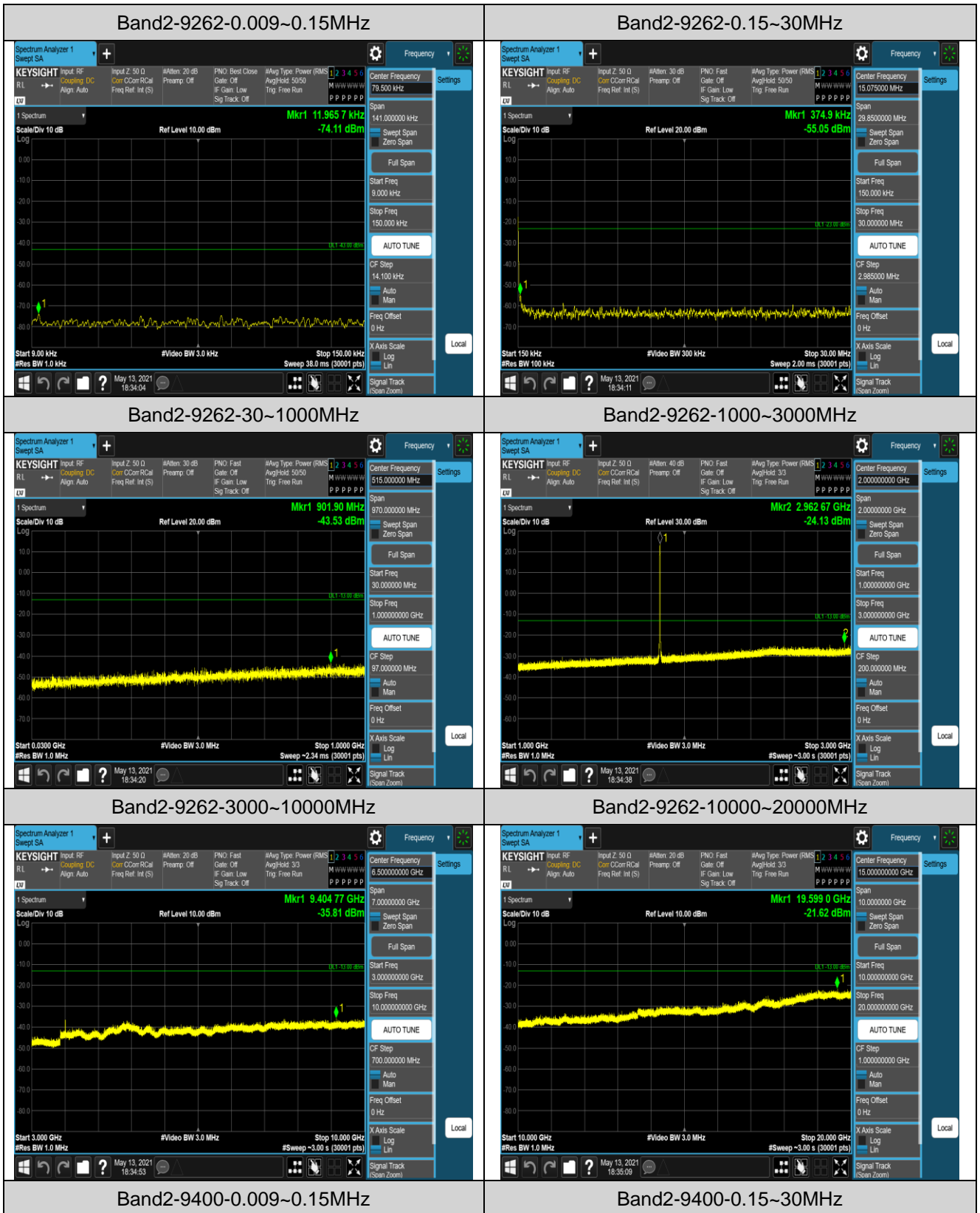
Appendix E: Conducted Spurious Emission

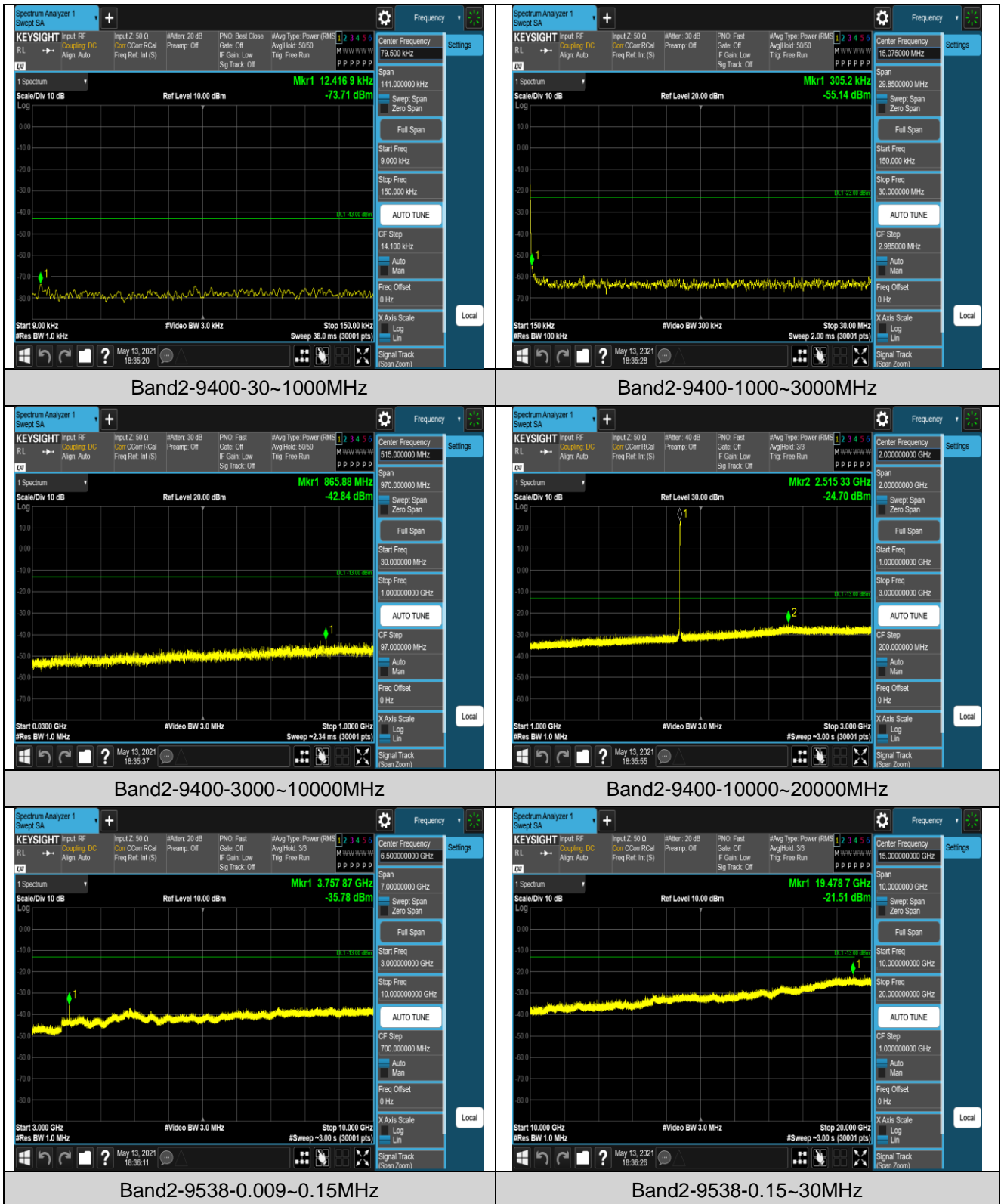
Test Result (WCDMA)

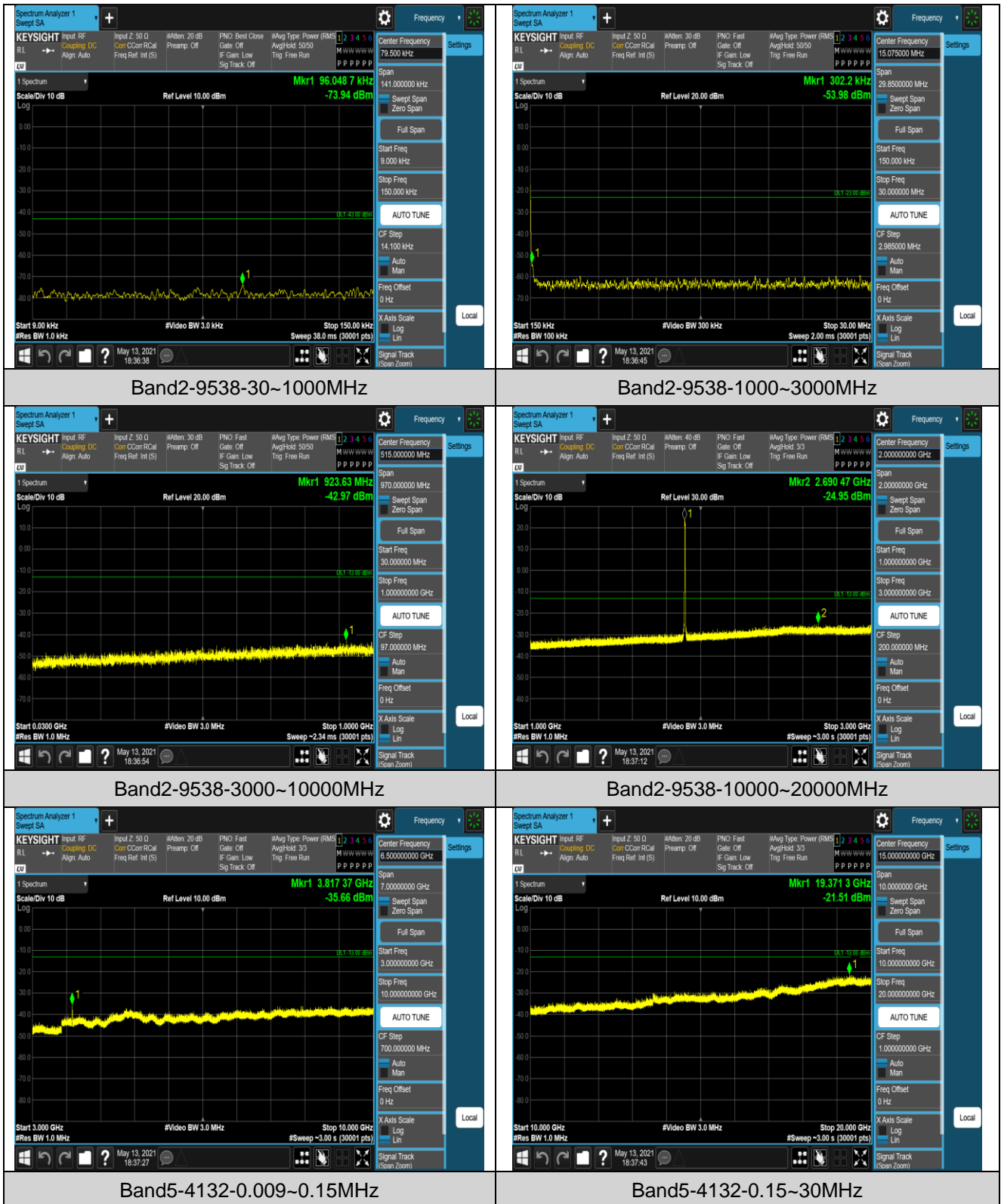
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-74.11	-43	PASS
Band2	9262	0.15~30MHz	0.37	-55.05	-23	PASS
Band2	9262	30~1000MHz	901.9	-43.53	-13	PASS
Band2	9262	1000~3000MHz	2962.67	-24.13	-13	PASS
Band2	9262	3000~10000MHz	9404.77	-35.81	-13	PASS
Band2	9262	10000~20000MHz	19599	-21.62	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-73.71	-43	PASS
Band2	9400	0.15~30MHz	0.31	-55.14	-23	PASS
Band2	9400	30~1000MHz	865.88	-42.84	-13	PASS
Band2	9400	1000~3000MHz	2515.33	-24.7	-13	PASS
Band2	9400	3000~10000MHz	3757.87	-35.78	-13	PASS
Band2	9400	10000~20000MHz	19478.67	-21.51	-13	PASS
Band2	9538	0.009~0.15MHz	0.1	-73.94	-43	PASS
Band2	9538	0.15~30MHz	0.3	-53.98	-23	PASS
Band2	9538	30~1000MHz	923.63	-42.97	-13	PASS
Band2	9538	1000~3000MHz	2690.47	-24.95	-13	PASS
Band2	9538	3000~10000MHz	3817.37	-35.66	-13	PASS
Band2	9538	10000~20000MHz	19371.33	-21.52	-13	PASS
Band5	4132	0.009~0.15MHz	0.13	-74.17	-33	PASS
Band5	4132	0.15~30MHz	0.38	-55.31	-13	PASS
Band5	4132	30~1000MHz	948.56	-31.5	-13	PASS
Band5	4132	1000~3000MHz	2962.6	-34.13	-13	PASS
Band5	4132	3000~10000MHz	4137.97	-22.43	-13	PASS
Band5	4132	10000~18000MHz	17517.33	-38.52	-13	PASS
Band5	4183	0.009~0.15MHz	0.15	-74.1	-33	PASS
Band5	4183	0.15~30MHz	16.94	-54.63	-13	PASS
Band5	4183	30~1000MHz	983.48	-34	-13	PASS
Band5	4183	1000~3000MHz	2557.2	-34.4	-13	PASS
Band5	4183	3000~10000MHz	4177.17	-25.88	-13	PASS
Band5	4183	10000~18000MHz	17686.67	-38.56	-13	PASS
Band5	4233	0.009~0.15MHz	0.1	-74.49	-33	PASS

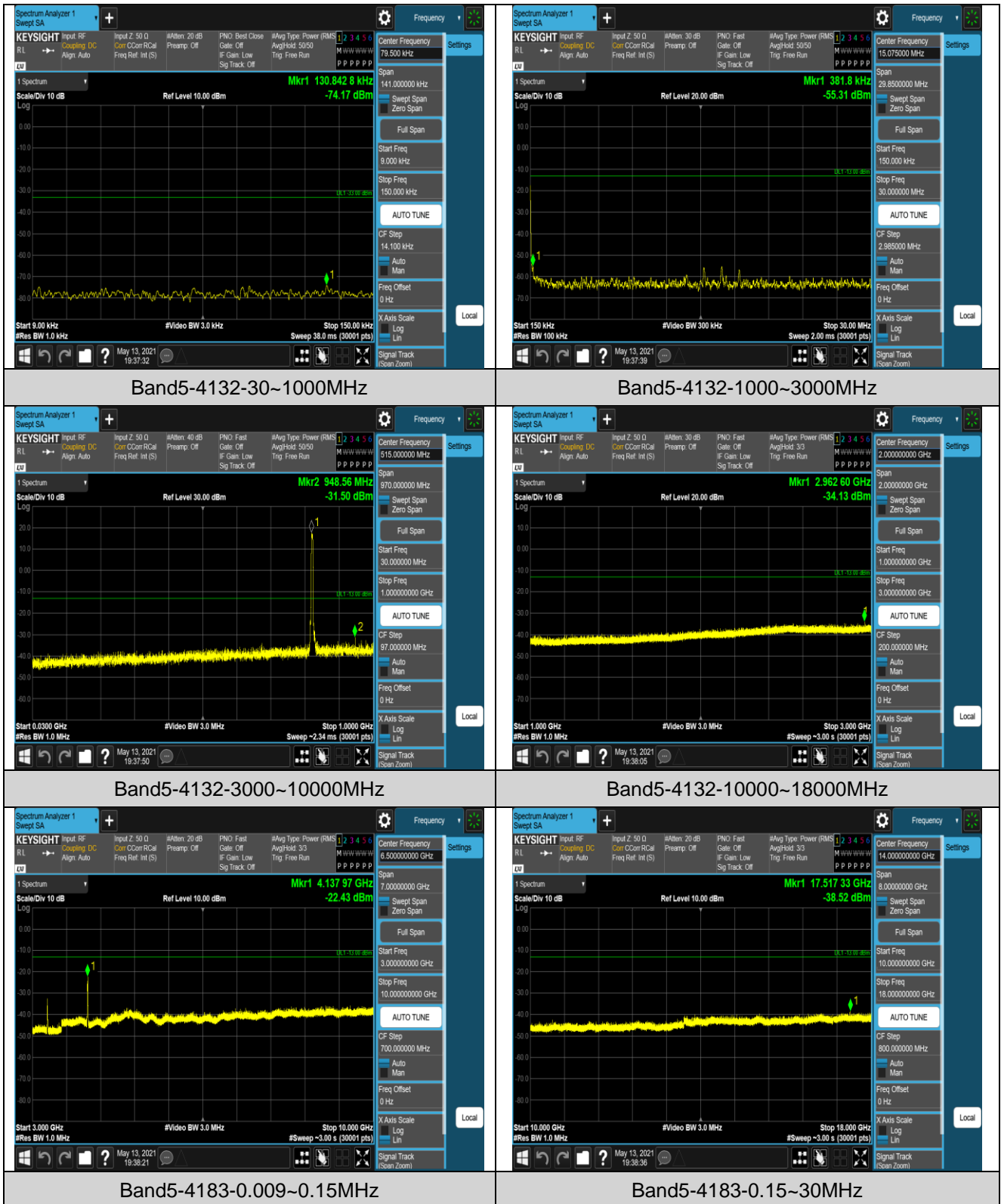
Band5	4233	0.15~30MHz	0.28	-54.87	-13	PASS
Band5	4233	30~1000MHz	960.62	-33.48	-13	PASS
Band5	4233	1000~3000MHz	2499.87	-34.16	-13	PASS
Band5	4233	3000~10000MHz	4226.63	-25.42	-13	PASS
Band5	4233	10000~18000MHz	17334.13	-38.68	-13	PASS

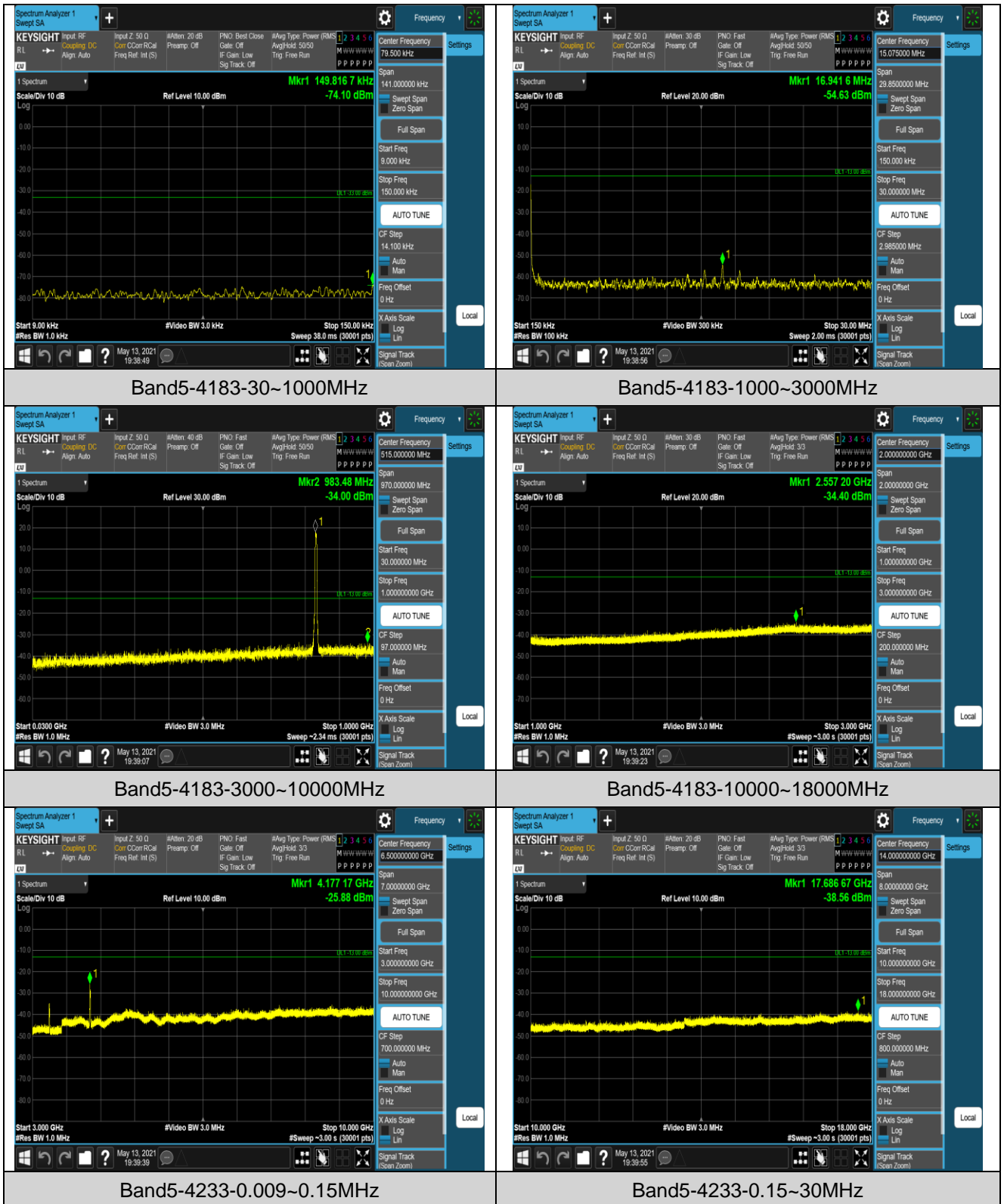
Test Graphs(WCDMA)

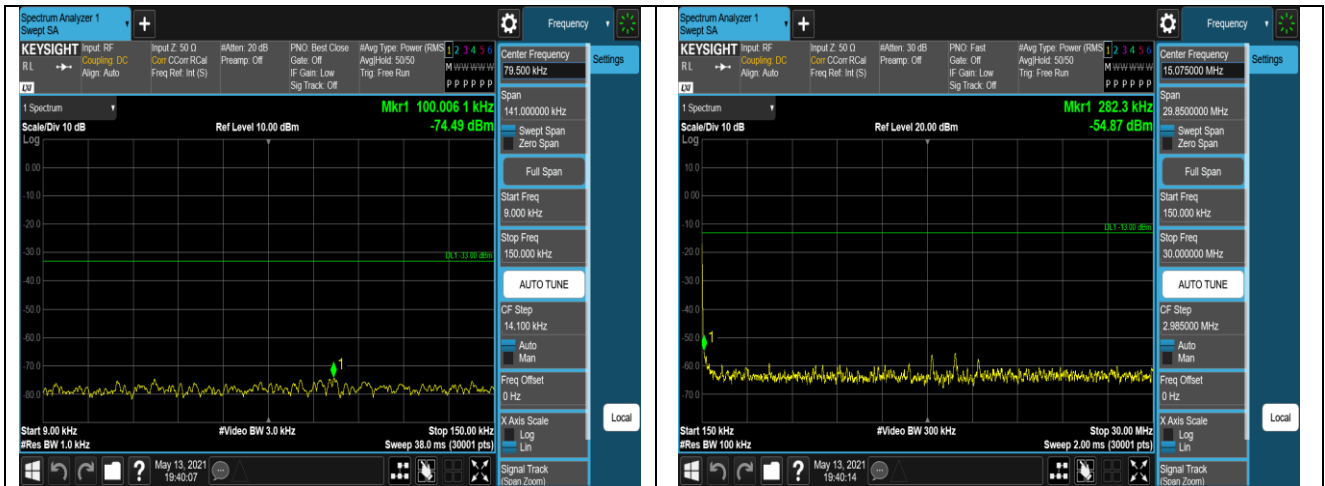






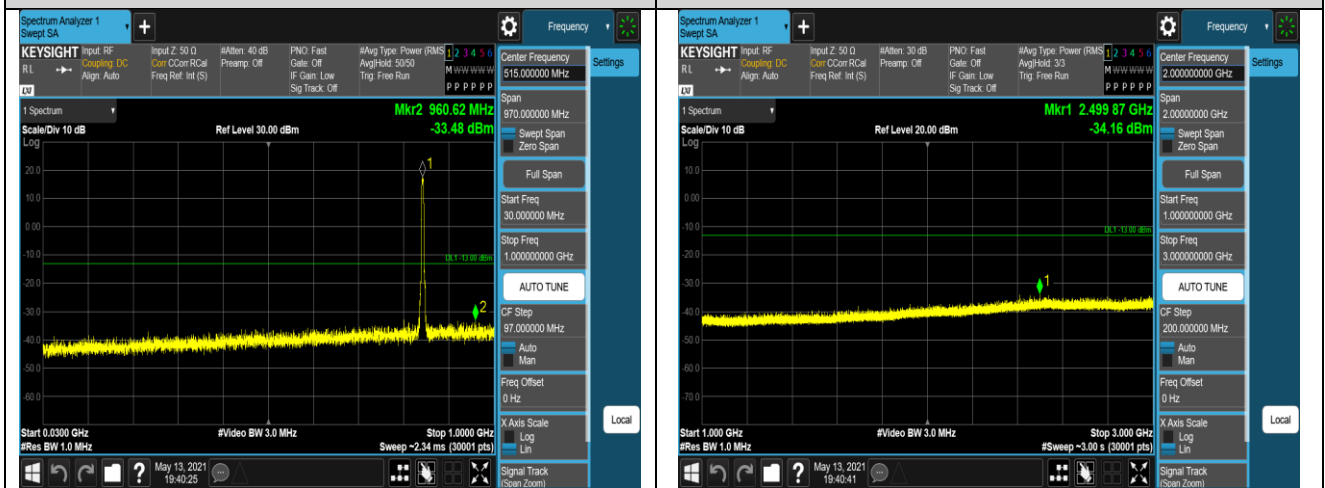






Band5-4233-30~1000MHz

Band5-4233-1000~3000MHz



Band5-4233-3000~10000MHz

Band5-4233-10000~18000MHz

Appendix F: Frequency Stability

Test Result (the worst channel)

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		
3.70	-30	-0.71	-0.000849	±2.5	Pass
	-20	-0.64	-0.000765		
	-10	-2.43	-0.002905		
	0	-0.51	-0.000610		
	10	0.10	0.000120		
	20	-2.74	-0.003275		
	30	-1.02	-0.001219		
	40	-1.63	-0.001948		
	50	-0.18	-0.000215		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.25	-0.34	-0.000406	±2.5	Pass
	3.70	-0.48	-0.000574		
	4.25	-0.59	-0.000705		
<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		
3.70	-30	2.39	0.001271	Within authorized band for BAND II	Pass
	-20	-4.74	-0.002521		
	-10	-5.11	-0.002718		
	0	5.40	0.002872		
	10	-3.65	-0.001941		
	20	0.43	0.000229		
	30	-0.31	-0.000165		
	40	-2.87	-0.001527		
	50	5.34	0.002840		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.25	0.04	0.000021	Within authorized band for BAND II	Pass
	3.70	4.80	0.002553		
	4.25	-4.78	-0.002543		
<i>Note: Only the worst case shown in the report.</i>					