

AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result(WCDMA)

Band	Type	Channel	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	Voice	9262	23.07	23.49	33.01	PASS
Band2	TestMode	9262	23.09	23.51	33.01	PASS
Band2	TestMode	9400	23.13	23.55	33.01	PASS
Band2	Voice	9400	23.12	23.54	33.01	PASS
Band2	TestMode	9538	23.04	23.46	33.01	PASS
Band2	Voice	9538	23.03	23.45	33.01	PASS
Band4	Voice	1312	22.80	23.03	30.00	PASS
Band4	TestMode	1312	22.82	23.22	30.00	PASS
Band4	Voice	1413	23.05	23.45	30.00	PASS
Band4	TestMode	1413	23.14	23.54	30.00	PASS
Band4	TestMode	1513	22.98	23.38	30.00	PASS
Band4	Voice	1513	22.92	23.32	30.00	PASS
Band5	Voice	4132	22.76	20.84	38.45	PASS
Band5	TestMode	4132	22.75	20.83	38.45	PASS
Band5	TestMode	4183	22.95	21.03	38.45	PASS
Band5	Voice	4183	22.96	21.04	38.45	PASS
Band5	Voice	4233	22.86	20.94	38.45	PASS
Band5	TestMode	4233	22.86	20.94	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.30	22.72	33.01	PASS
Band2	9262	2	22.00	22.42	33.01	PASS
Band2	9262	3	21.81	22.23	33.01	PASS
Band2	9262	4	21.82	22.24	33.01	PASS
Band2	9400	1	22.46	22.88	33.01	PASS
Band2	9400	2	22.12	22.54	33.01	PASS
Band2	9400	3	21.84	22.26	33.01	PASS
Band2	9400	4	21.85	22.27	33.01	PASS
Band2	9538	1	22.44	22.86	33.01	PASS
Band2	9538	2	22.06	22.48	33.01	PASS
Band2	9538	3	21.84	22.26	33.01	PASS
Band2	9538	4	21.93	22.35	33.01	PASS

Band4	1312	1	20.95	21.35	30.00	PASS
Band4	1312	2	21.51	21.91	30.00	PASS
Band4	1312	3	21.44	21.84	30.00	PASS
Band4	1312	4	21.51	21.91	30.00	PASS
Band4	1413	1	20.82	21.22	30.00	PASS
Band4	1413	2	21.40	21.8	30.00	PASS
Band4	1413	3	21.37	21.77	30.00	PASS
Band4	1413	4	21.41	21.81	30.00	PASS
Band4	1513	1	20.86	21.26	30.00	PASS
Band4	1513	2	21.44	21.84	30.00	PASS
Band4	1513	3	21.37	21.77	30.00	PASS
Band4	1513	4	21.38	21.78	30.00	PASS
Band5	4132	1	21.98	20.06	38.5	PASS
Band5	4132	2	21.61	19.69	38.5	PASS
Band5	4132	3	21.25	19.33	38.5	PASS
Band5	4132	4	21.22	19.3	38.5	PASS
Band5	4183	1	22.02	20.1	38.5	PASS
Band5	4183	2	21.62	19.7	38.5	PASS
Band5	4183	3	20.98	19.06	38.5	PASS
Band5	4183	4	21.42	19.5	38.5	PASS
Band5	4233	1	21.58	19.66	38.5	PASS
Band5	4233	2	21.61	19.69	38.5	PASS
Band5	4233	3	21.21	19.29	38.5	PASS
Band5	4233	4	21.21	19.29	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.91	20.33	33.01	PASS
Band2	9262	2	20.52	20.94	33.01	PASS
Band2	9262	3	20.29	20.71	33.01	PASS
Band2	9262	4	20.57	20.99	33.01	PASS
Band2	9262	5	22.43	22.85	33.01	PASS
Band2	9400	1	19.67	20.09	33.01	PASS
Band2	9400	2	20.60	21.02	33.01	PASS
Band2	9400	3	20.15	20.57	33.01	PASS
Band2	9400	4	20.63	21.05	33.01	PASS
Band2	9400	5	22.44	22.86	33.01	PASS
Band2	9538	1	19.55	19.97	33.01	PASS
Band2	9538	2	20.49	20.91	33.01	PASS
Band2	9538	3	20.09	20.51	33.01	PASS

Band2	9538	4	20.50	20.92	33.01	PASS
Band2	9538	5	22.36	22.78	33.01	PASS
Band4	1312	1	19.92	20.32	30.00	PASS
Band4	1312	2	19.70	20.1	30.00	PASS
Band4	1312	3	19.81	20.21	30.00	PASS
Band4	1312	4	19.27	19.67	30.00	PASS
Band4	1312	5	21.57	21.97	30.00	PASS
Band4	1413	1	19.26	19.66	30.00	PASS
Band4	1413	2	19.42	19.82	30.00	PASS
Band4	1413	3	19.38	19.78	30.00	PASS
Band4	1413	4	19.48	19.88	30.00	PASS
Band4	1413	5	21.44	21.84	30.00	PASS
Band4	1513	1	19.12	19.52	30.00	PASS
Band4	1513	2	19.25	19.65	30.00	PASS
Band4	1513	3	19.23	19.63	30.00	PASS
Band4	1513	4	19.33	19.73	30.00	PASS
Band4	1513	5	21.34	21.74	30.00	PASS
Band5	4132	1	20.64	18.72	38.5	PASS
Band5	4132	2	20.79	18.87	38.5	PASS
Band5	4132	3	20.56	18.64	38.5	PASS
Band5	4132	4	20.37	18.45	38.5	PASS
Band5	4132	5	21.77	19.85	38.5	PASS
Band5	4183	1	20.10	18.18	38.5	PASS
Band5	4183	2	20.69	18.77	38.5	PASS
Band5	4183	3	20.22	18.3	38.5	PASS
Band5	4183	4	20.27	18.35	38.5	PASS
Band5	4183	5	21.88	19.96	38.5	PASS
Band5	4233	1	19.73	17.81	38.5	PASS
Band5	4233	2	20.39	18.47	38.5	PASS
Band5	4233	3	19.87	17.95	38.5	PASS
Band5	4233	4	19.96	18.04	38.5	PASS
Band5	4233	5	21.77	19.85	38.5	PASS

Remark: $EIRP (dBm) = \text{Conducted power (dBm)} + \text{Antenna Gain (dBi)}$. (For Band2 & 4)
 $ERP (dBm) = EIRP (dBm) - 2.15 (dB)$. (For Band5)

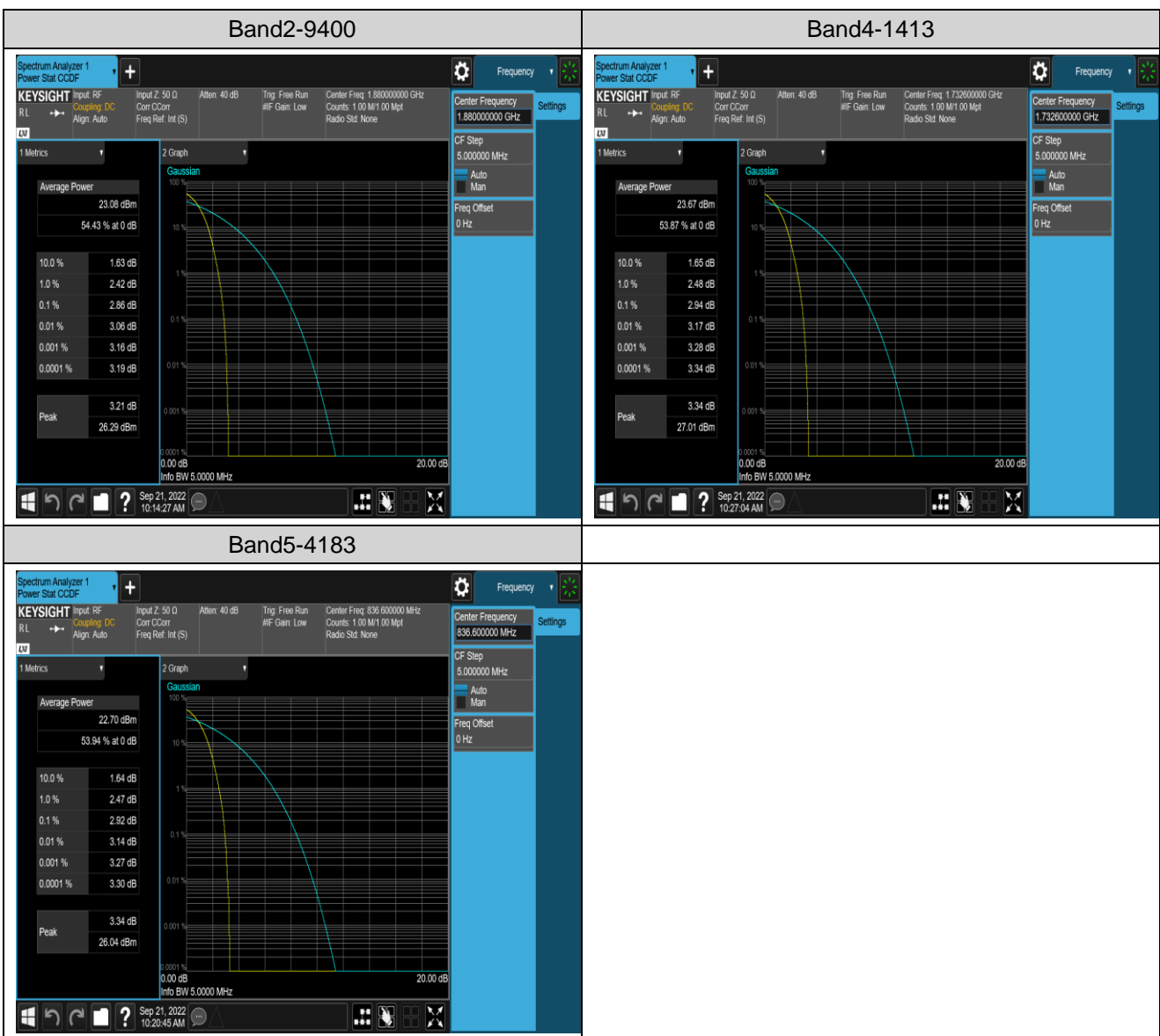
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.86	13	PASS
Band4	1413	2.94	13	PASS
Band5	4183	2.92	13	PASS

Remark: All channel had been tested, but only the worst case data displayed in this report.

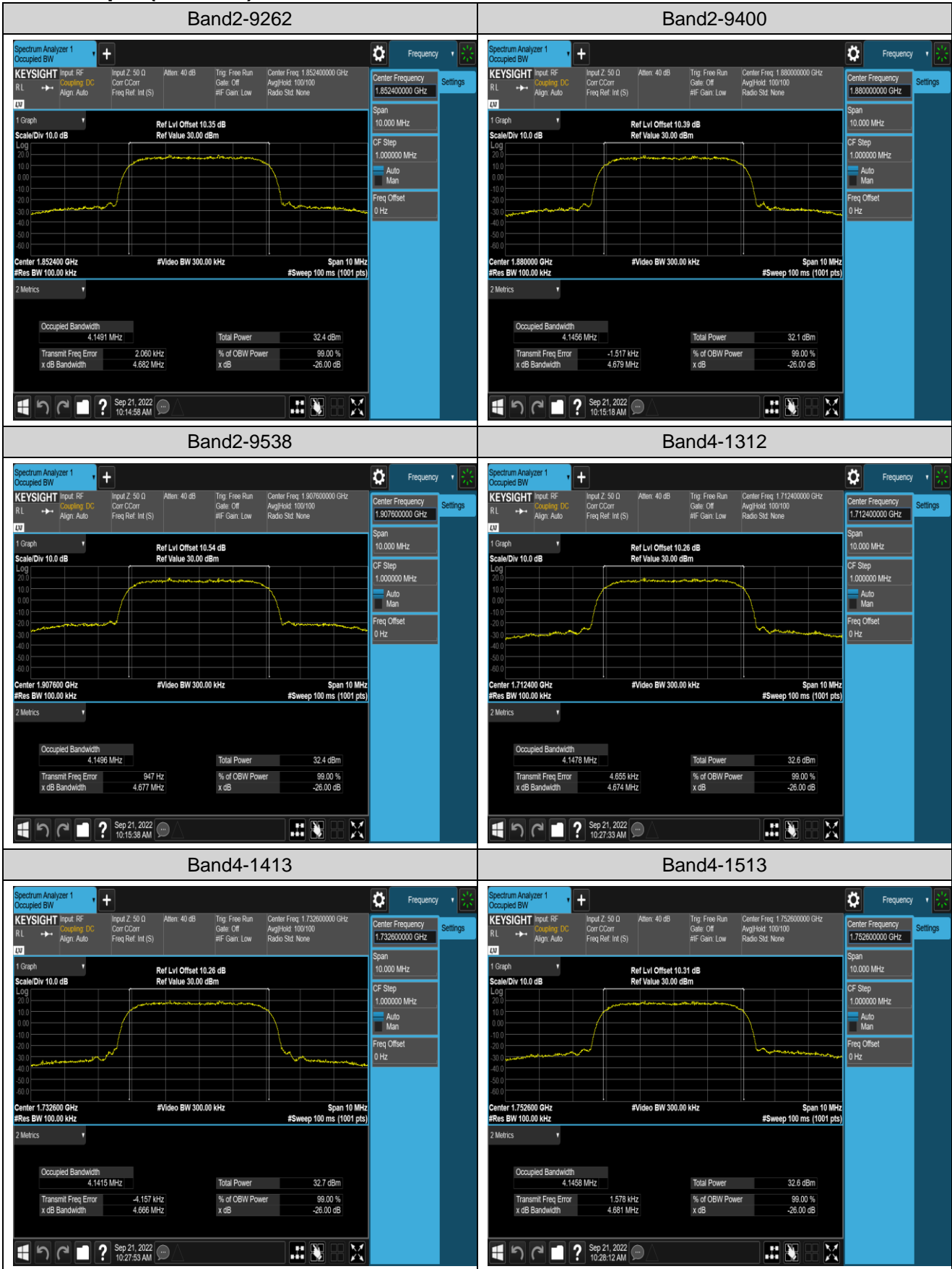
Test Graphs(WCDMA)



AppendixC:26dB Bandwidth andOccupied Bandwidth**Test Result(WCDMA)**

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
Band2	9262	4.1491	4.682
Band2	9400	4.1456	4.679
Band2	9538	4.1496	4.677
Band4	1312	4.1478	4.674
Band4	1413	4.1415	4.666
Band4	1513	4.1458	4.681
Band5	4132	4.1477	4.661
Band5	4183	4.1403	4.668
Band5	4233	4.1470	4.667

Test Graphs(WCDMA)



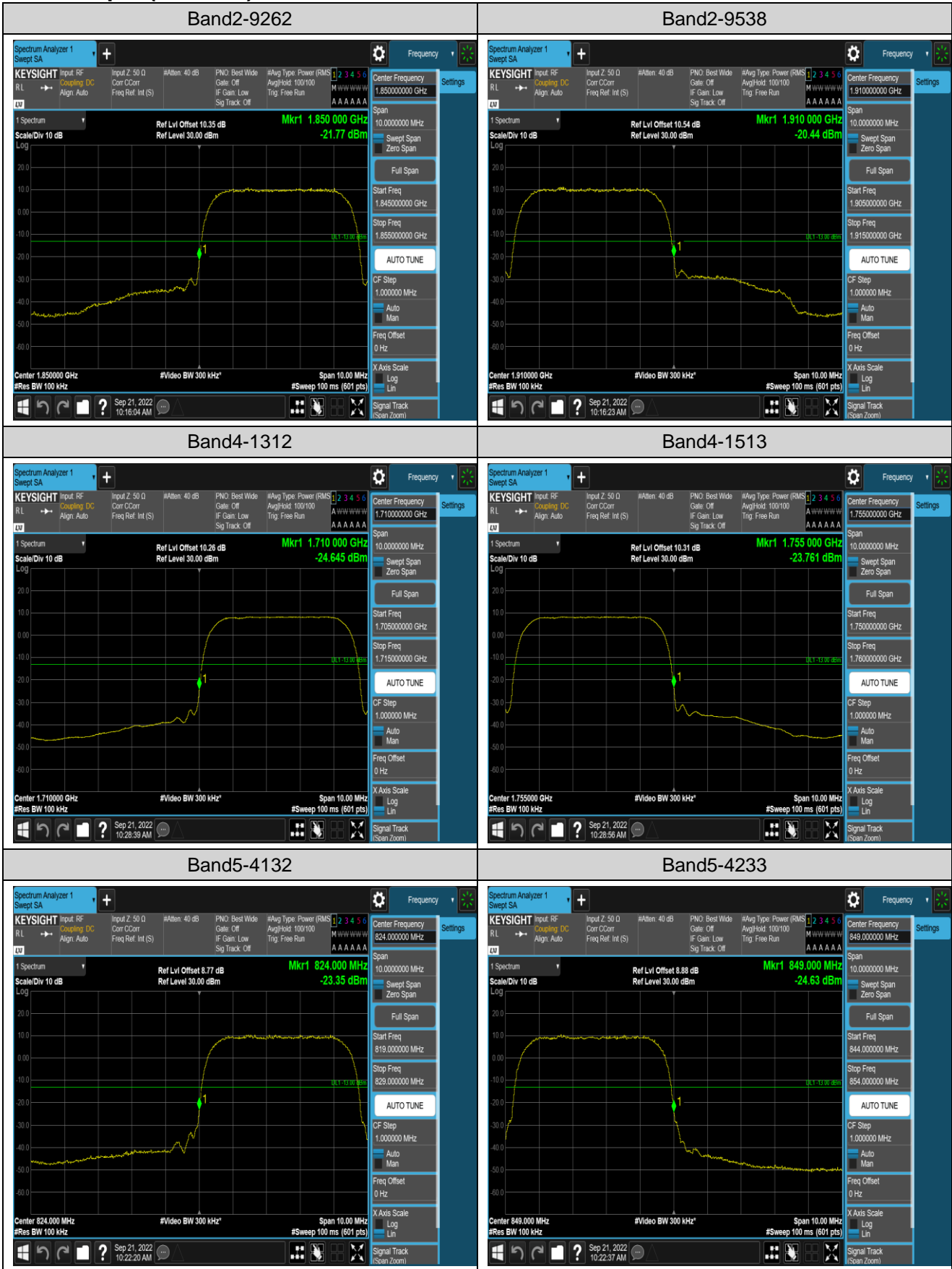


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-21.77	-13	PASS
Band2	9538	1910.00	-20.44	-13	PASS
Band4	1312	1710.00	-24.65	-13	PASS
Band4	1513	1755.00	-23.76	-13	PASS
Band5	4132	824.00	-23.35	-13	PASS
Band5	4233	849.00	-24.63	-13	PASS

Test Graphs(WCDMA)

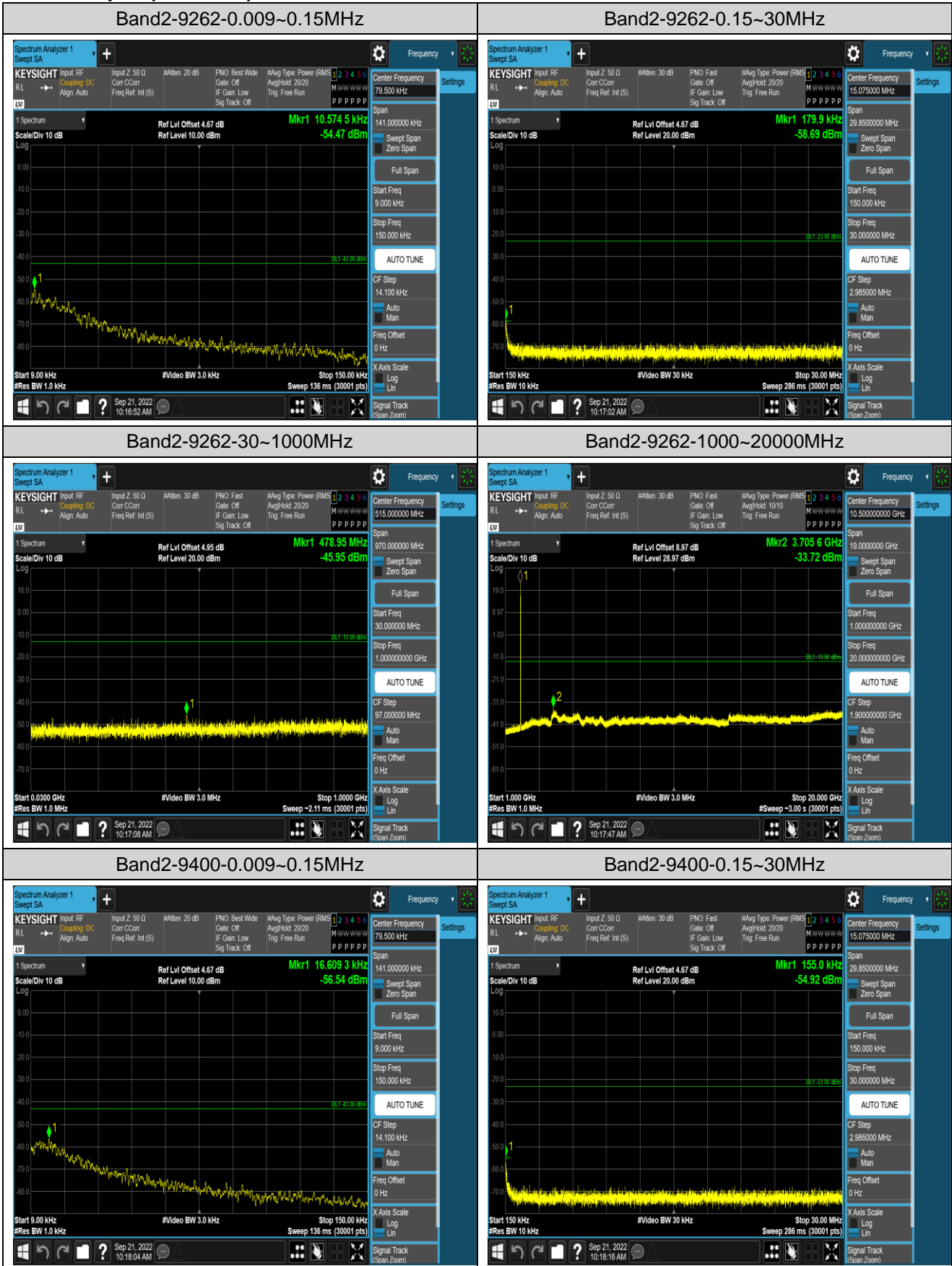


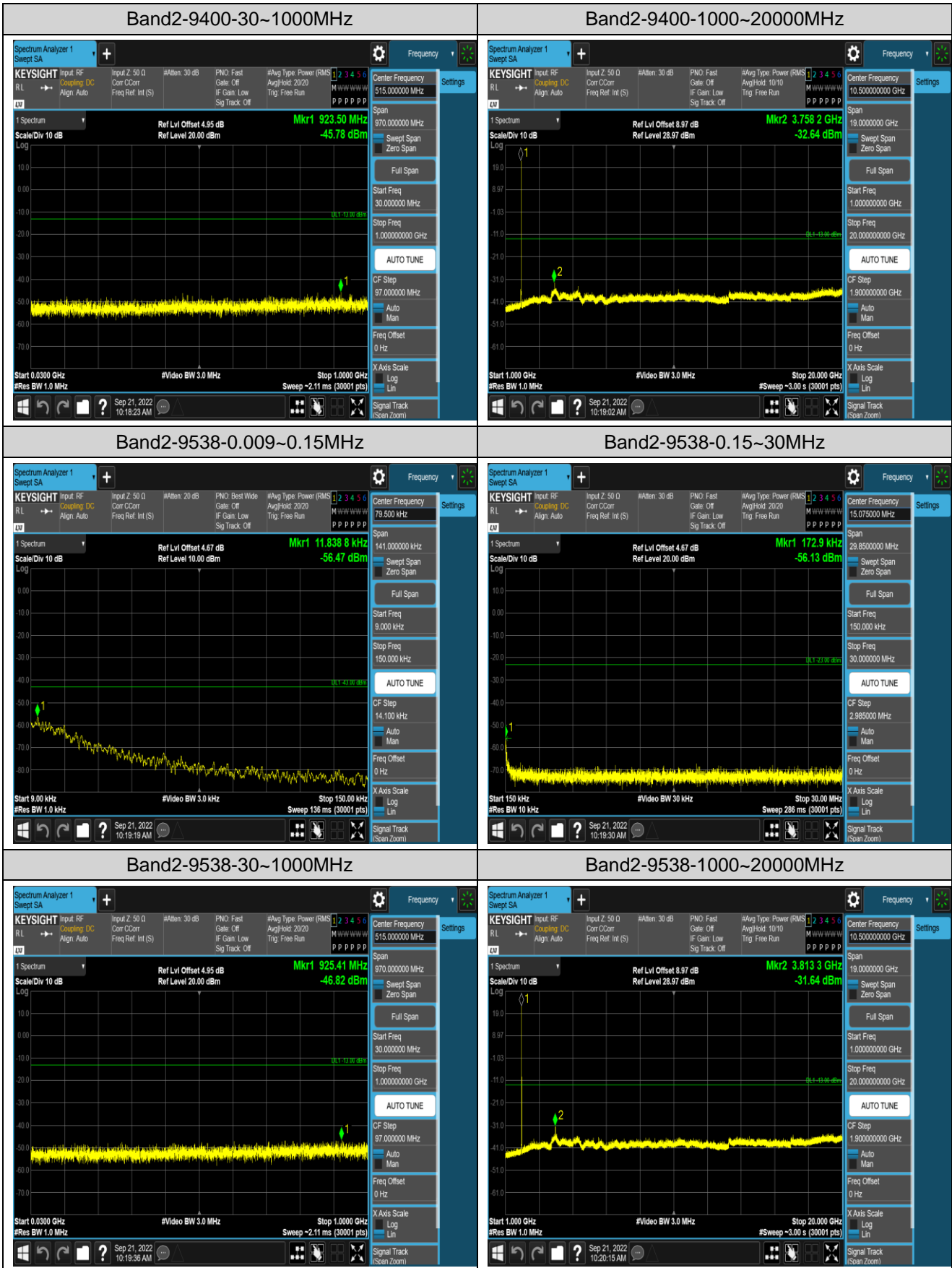
Appendix E: Conducted Spurious Emission

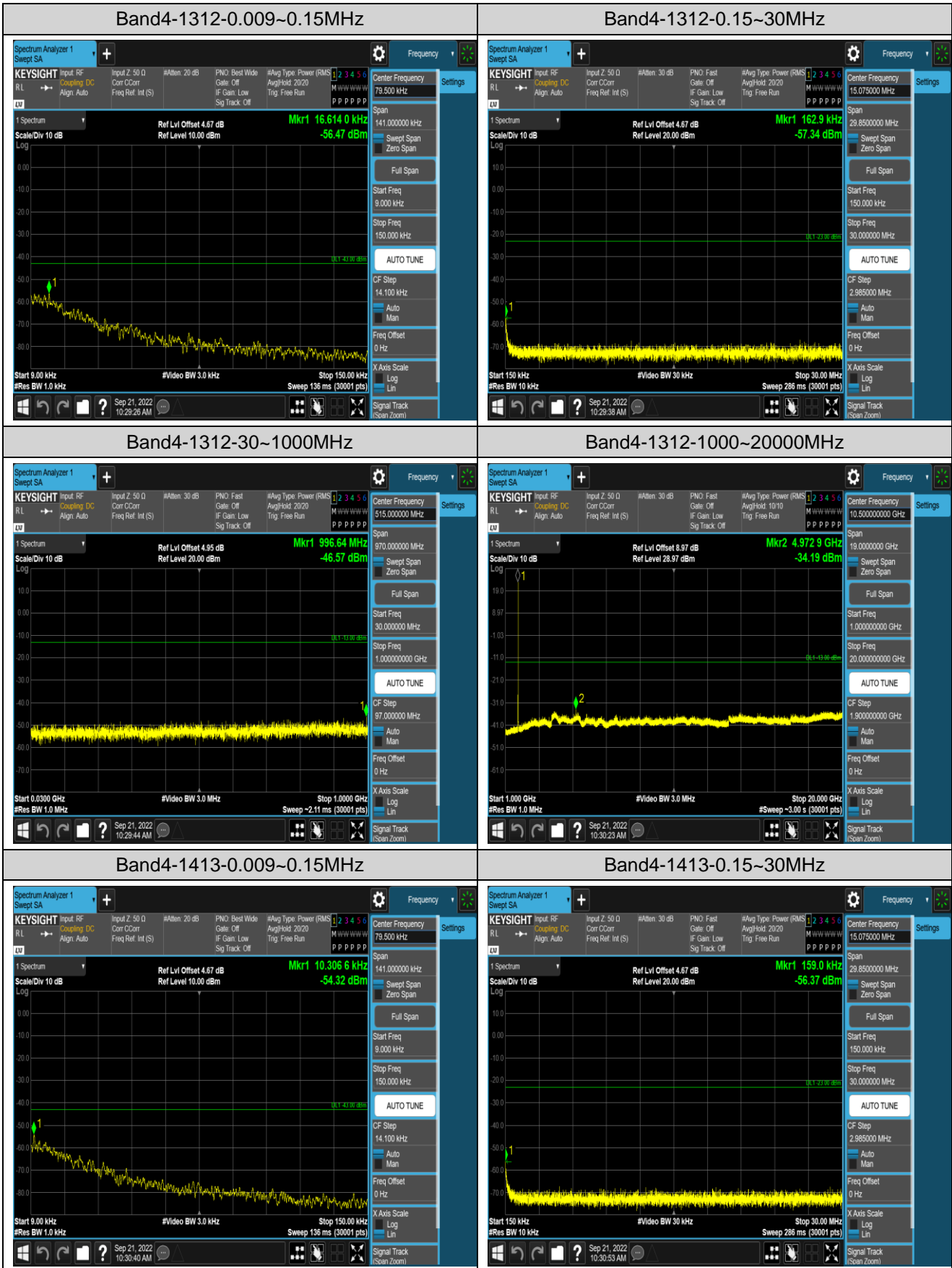
Test Result (WCDMA)

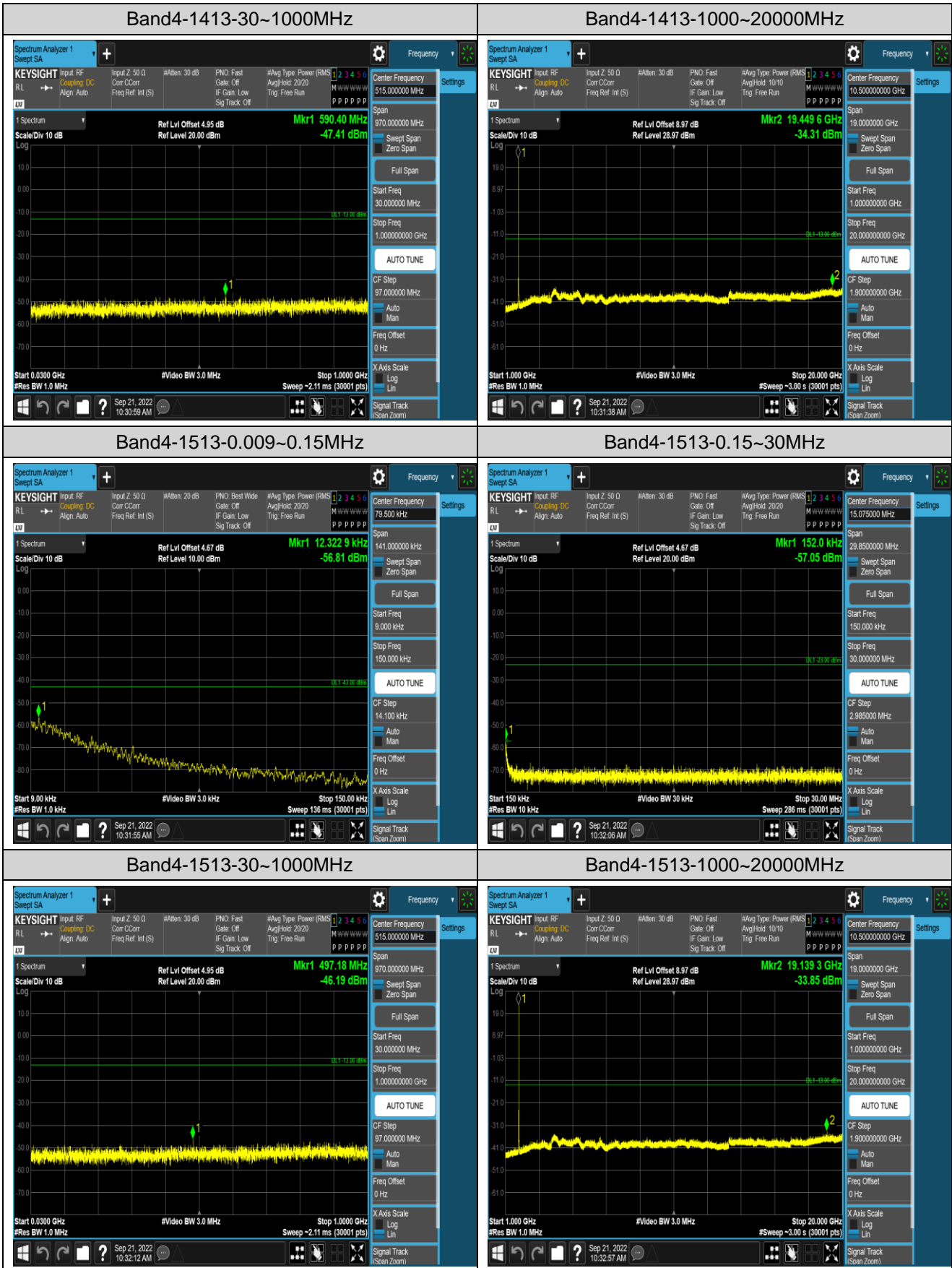
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-54.47	-43	PASS
Band2	9262	0.15~30MHz	0.18	-58.69	-23	PASS
Band2	9262	30~1000MHz	478.95	-45.95	-13	PASS
Band2	9262	1000~20000MHz	3705.6	-33.72	-13	PASS
Band2	9400	0.009~0.15MHz	0.02	-56.54	-43	PASS
Band2	9400	0.15~30MHz	0.15	-54.92	-23	PASS
Band2	9400	30~1000MHz	923.5	-45.78	-13	PASS
Band2	9400	1000~20000MHz	3758.17	-32.64	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-56.47	-43	PASS
Band2	9538	0.15~30MHz	0.17	-56.13	-23	PASS
Band2	9538	30~1000MHz	925.41	-46.82	-13	PASS
Band2	9538	1000~20000MHz	3813.27	-31.64	-13	PASS
Band4	1312	0.009~0.15MHz	0.02	-56.47	-43	PASS
Band4	1312	0.15~30MHz	0.16	-57.34	-23	PASS
Band4	1312	30~1000MHz	996.64	-46.57	-13	PASS
Band4	1312	1000~20000MHz	4972.9	-34.19	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-54.32	-43	PASS
Band4	1413	0.15~30MHz	0.16	-56.38	-23	PASS
Band4	1413	30~1000MHz	590.4	-47.41	-13	PASS
Band4	1413	1000~20000MHz	19449.63	-34.31	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-56.81	-43	PASS
Band4	1513	0.15~30MHz	0.15	-57.05	-23	PASS
Band4	1513	30~1000MHz	497.18	-46.19	-13	PASS
Band4	1513	1000~20000MHz	19139.3	-33.85	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-56.03	-33	PASS
Band5	4132	0.15~30MHz	0.15	-56.72	-13	PASS
Band5	4132	30~1000MHz	947.39	-54.71	-13	PASS
Band5	4132	1000~10000MHz	3709	-33.89	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-55.69	-33	PASS
Band5	4183	0.15~30MHz	0.16	-55.53	-13	PASS
Band5	4183	30~1000MHz	663.09	-54.96	-13	PASS
Band5	4183	1000~10000MHz	3871.9	-34.56	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-55.97	-33	PASS
Band5	4233	0.15~30MHz	0.15	-54.91	-13	PASS
Band5	4233	30~1000MHz	745.28	-55.49	-13	PASS
Band5	4233	1000~10000MHz	3729.7	-34.32	-13	PASS

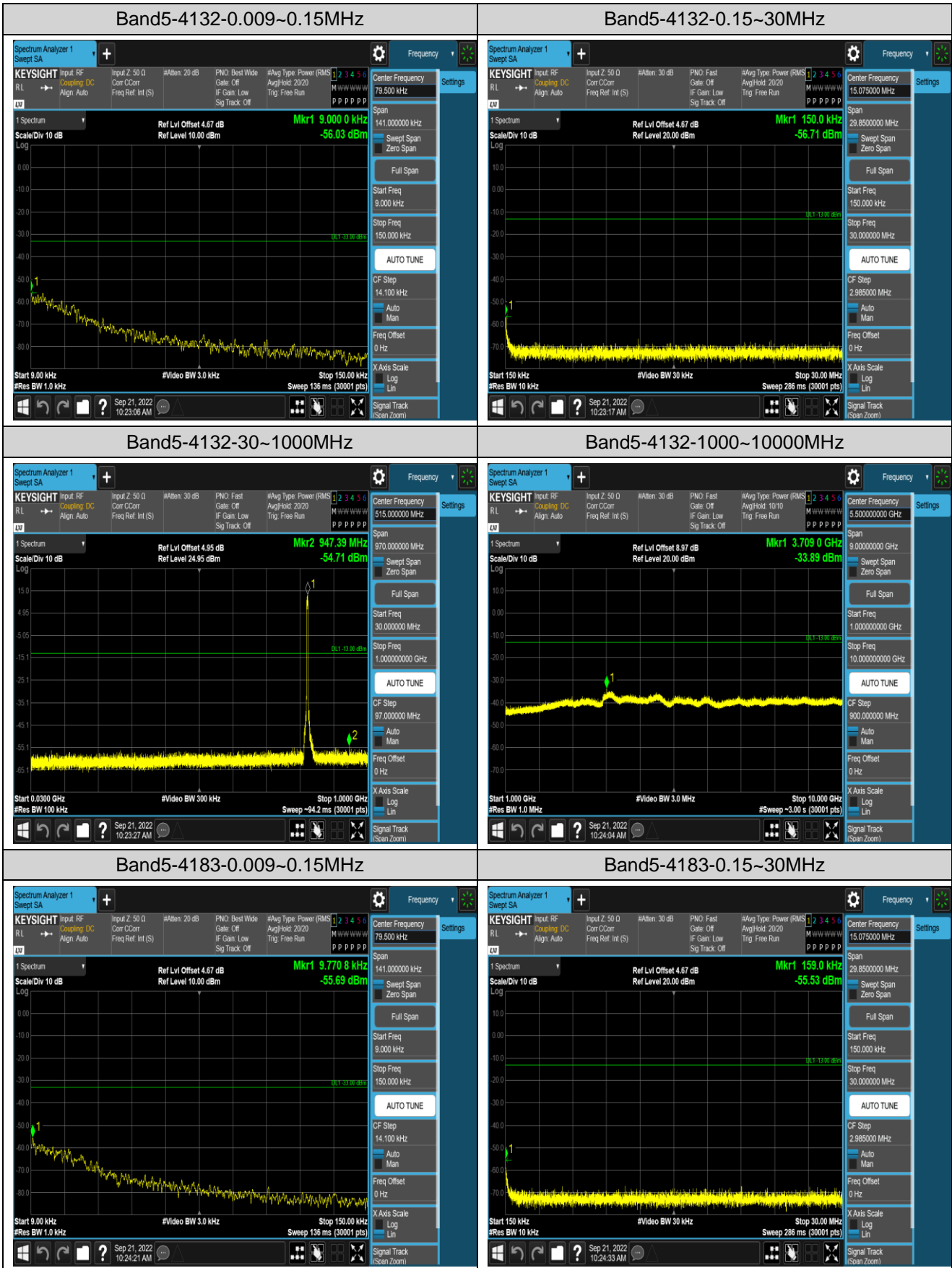
Test Graphs(WCDMA)

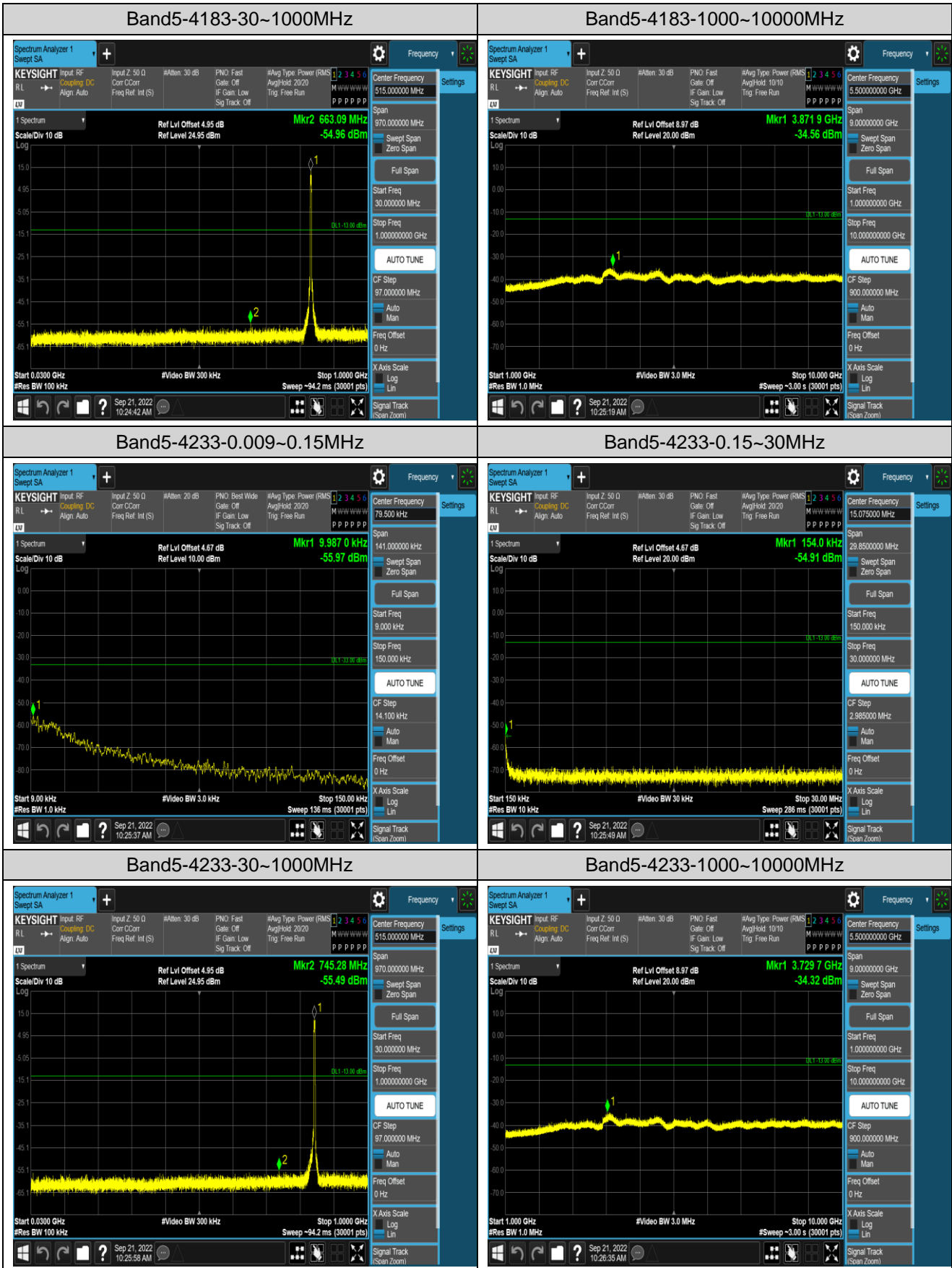












Appendix F: Frequency Stability

Test Result

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		
3.85	-30	0.14	0.000167	±2.5	Pass
	-20	0.60	0.000717		
	-10	0.08	0.000096		
	0	0.01	0.000012		
	10	0.62	0.000741		
	20	-0.92	-0.001100		
	30	1.33	0.001590		
	40	-3.03	-0.003622		
	50	-1.35	-0.001614		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-2.02	-0.002415	±2.5	Pass
	3.85	-1.03	-0.001231		
	4.24	-1.06	-0.001267		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: WCDMA BAND IV 12.2k RMC Middle Frequency=1413 channel=1732.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-4.53	-0.002615	Within authorized band for BAND IV	Pass
	-20	8.75	0.005050		
	-10	3.45	0.001991		
	0	7.68	0.004433		
	10	-0.77	-0.000444		
	20	4.11	0.002372		
	30	3.65	0.002107		
	40	0.85	0.000491		
	50	-1.37	-0.000791		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-0.46	-0.000265	Within authorized band for BAND IV	Pass
	3.85	-7.19	-0.004150		
	4.24	-1.41	-0.000814		
<i>Remark: All channel had been tested, but only the worst case data displayed in this 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		
3.85	-30	-3.94	-0.002096	Within authorized band for BAND II	Pass
	-20	-9.83	-0.005229		
	-10	-5.62	-0.002989		
	0	1.82	0.000968		
	10	5.08	0.002702		
	20	5.44	0.002894		
	30	5.21	0.002771		
	40	5.44	0.002894		
	50	5.71	0.003037		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	2.19	0.001165	Within authorized band for BAND II	Pass
	3.85	2.95	0.001569		
	4.24	5.05	0.002686		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
Band2	9400	PASS	PASS
Band4	1413	PASS	PASS
Band5	4183	PASS	PASS

Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs

