

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	22.58	21.08	33.01	PASS
Band2	TestMode	9262	22.53	21.03	33.01	PASS
Band2	TestMode	9400	22.66	21.16	33.01	PASS
Band2	Voice	9400	22.68	21.18	33.01	PASS
Band2	TestMode	9538	22.70	21.20	33.01	PASS
Band2	Voice	9538	22.70	21.20	33.01	PASS
Band4	Voice	1312	23.04	20.24	30.00	PASS
Band4	TestMode	1312	23.01	20.21	30.00	PASS
Band4	Voice	1413	22.92	20.12	30.00	PASS
Band4	TestMode	1413	22.95	20.15	30.00	PASS
Band4	TestMode	1513	23.00	20.20	30.00	PASS
Band4	Voice	1513	23.00	20.20	30.00	PASS
Band5	Voice	4132	23.42	14.37	38.45	PASS
Band5	TestMode	4132	23.38	14.33	38.45	PASS
Band5	TestMode	4183	23.45	14.40	38.45	PASS
Band5	Voice	4183	23.47	14.42	38.45	PASS
Band5	Voice	4233	23.31	14.26	38.45	PASS
Band5	TestMode	4233	23.34	14.29	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.20	20.70	33.01	PASS
Band2	9262	2	21.83	20.33	33.01	PASS
Band2	9262	3	21.59	20.09	33.01	PASS
Band2	9262	4	21.61	20.11	33.01	PASS
Band2	9400	1	21.87	20.37	33.01	PASS
Band2	9400	2	21.54	20.04	33.01	PASS
Band2	9400	3	21.37	19.87	33.01	PASS
Band2	9400	4	21.42	19.92	33.01	PASS
Band2	9538	1	22.21	20.71	33.01	PASS
Band2	9538	2	21.78	20.28	33.01	PASS
Band2	9538	3	21.60	20.10	33.01	PASS
Band2	9538	4	21.65	20.15	33.01	PASS

Band4	1312	1	22.67	19.87	30.00	PASS
Band4	1312	2	22.79	19.99	30.00	PASS
Band4	1312	3	22.77	19.97	30.00	PASS
Band4	1312	4	22.82	20.02	30.00	PASS
Band4	1413	1	22.36	19.56	30.00	PASS
Band4	1413	2	22.47	19.67	30.00	PASS
Band4	1413	3	22.34	19.54	30.00	PASS
Band4	1413	4	22.42	19.62	30.00	PASS
Band4	1513	1	22.36	19.56	30.00	PASS
Band4	1513	2	22.46	19.66	30.00	PASS
Band4	1513	3	22.46	19.66	30.00	PASS
Band4	1513	4	22.43	19.63	30.00	PASS
Band5	4132	1	22.67	13.62	38.5	PASS
Band5	4132	2	22.39	13.34	38.5	PASS
Band5	4132	3	21.89	12.84	38.5	PASS
Band5	4132	4	21.92	12.87	38.5	PASS
Band5	4183	1	22.31	13.26	38.5	PASS
Band5	4183	2	22.35	13.30	38.5	PASS
Band5	4183	3	21.85	12.80	38.5	PASS
Band5	4183	4	21.90	12.85	38.5	PASS
Band5	4233	1	22.64	13.59	38.5	PASS
Band5	4233	2	22.43	13.38	38.5	PASS
Band5	4233	3	21.97	12.92	38.5	PASS
Band5	4233	4	21.96	12.91	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.74	18.24	33.01	PASS
Band2	9262	2	20.54	19.04	33.01	PASS
Band2	9262	3	20.17	18.67	33.01	PASS
Band2	9262	4	20.62	19.12	33.01	PASS
Band2	9262	5	22.23	20.73	33.01	PASS
Band2	9400	1	19.72	18.22	33.01	PASS
Band2	9400	2	20.14	18.64	33.01	PASS
Band2	9400	3	19.63	18.13	33.01	PASS
Band2	9400	4	20.23	18.73	33.01	PASS
Band2	9400	5	21.98	20.48	33.01	PASS
Band2	9538	1	19.39	17.89	33.01	PASS
Band2	9538	2	20.32	18.82	33.01	PASS
Band2	9538	3	19.82	18.32	33.01	PASS

Band2	9538	4	20.40	18.90	33.01	PASS
Band2	9538	5	22.20	20.70	33.01	PASS
Band4	1312	1	22.77	19.97	30.00	PASS
Band4	1312	2	22.79	19.99	30.00	PASS
Band4	1312	3	22.55	19.75	30.00	PASS
Band4	1312	4	22.88	20.08	30.00	PASS
Band4	1312	5	22.93	20.13	30.00	PASS
Band4	1413	1	22.16	19.36	30.00	PASS
Band4	1413	2	22.31	19.51	30.00	PASS
Band4	1413	3	21.69	18.89	30.00	PASS
Band4	1413	4	22.30	19.50	30.00	PASS
Band4	1413	5	22.49	19.69	30.00	PASS
Band4	1513	1	22.18	19.38	30.00	PASS
Band4	1513	2	22.25	19.45	30.00	PASS
Band4	1513	3	21.84	19.04	30.00	PASS
Band4	1513	4	22.32	19.52	30.00	PASS
Band4	1513	5	22.63	19.83	30.00	PASS
Band5	4132	1	20.71	11.66	38.5	PASS
Band5	4132	2	20.83	11.78	38.5	PASS
Band5	4132	3	20.57	11.52	38.5	PASS
Band5	4132	4	20.45	11.40	38.5	PASS
Band5	4132	5	23.07	14.02	38.5	PASS
Band5	4183	1	20.75	11.70	38.5	PASS
Band5	4183	2	21.05	12.00	38.5	PASS
Band5	4183	3	20.78	11.73	38.5	PASS
Band5	4183	4	20.92	11.87	38.5	PASS
Band5	4183	5	22.68	13.63	38.5	PASS
Band5	4233	1	20.59	11.54	38.5	PASS
Band5	4233	2	21.20	12.15	38.5	PASS
Band5	4233	3	20.66	11.61	38.5	PASS
Band5	4233	4	20.72	11.67	38.5	PASS
Band5	4233	5	23.01	13.96	38.5	PASS

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

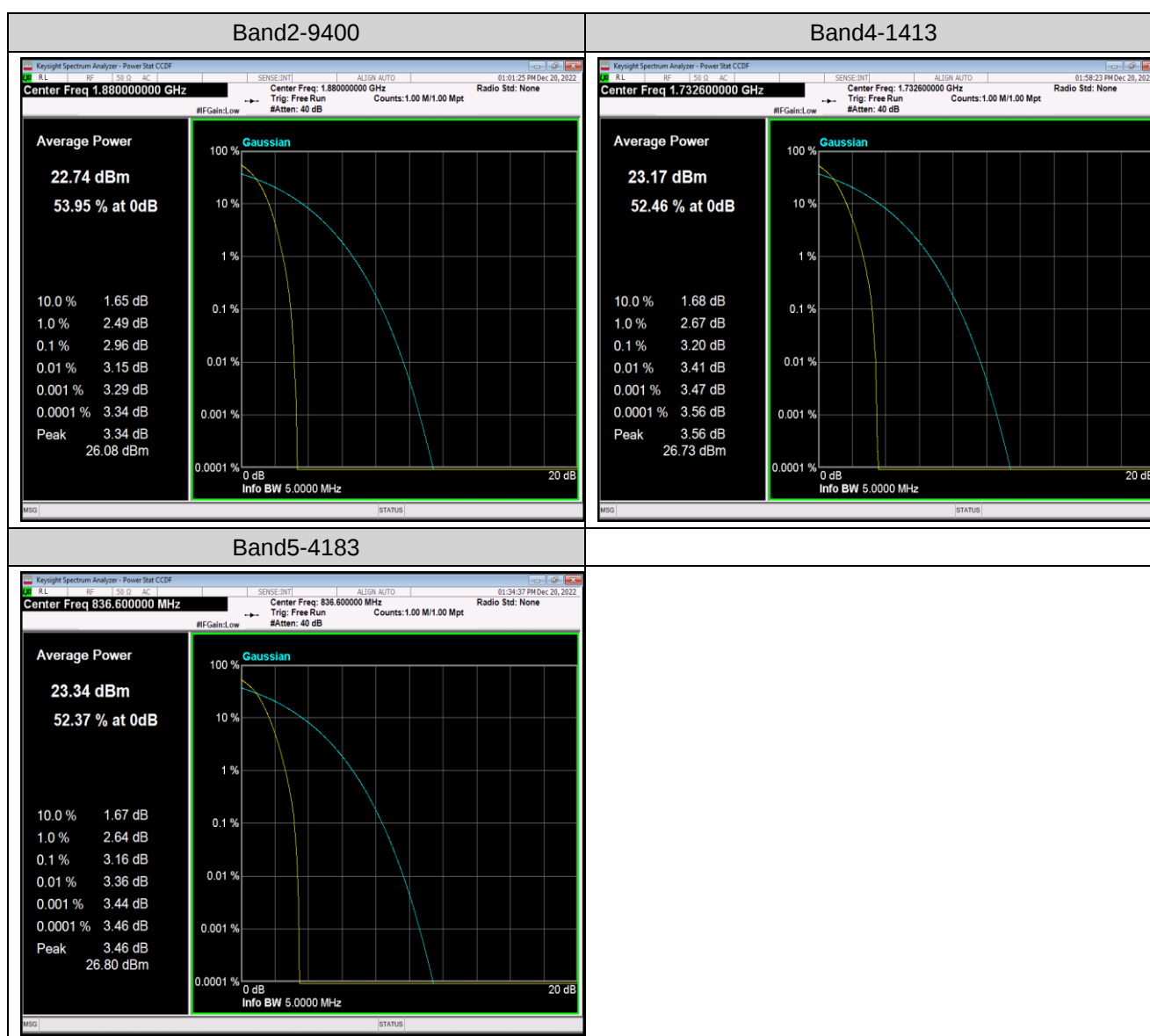
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.96	13	PASS
Band4	1413	3.2	13	PASS
Band5	4183	3.16	13	PASS

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

Test Graphs(WCDMA)

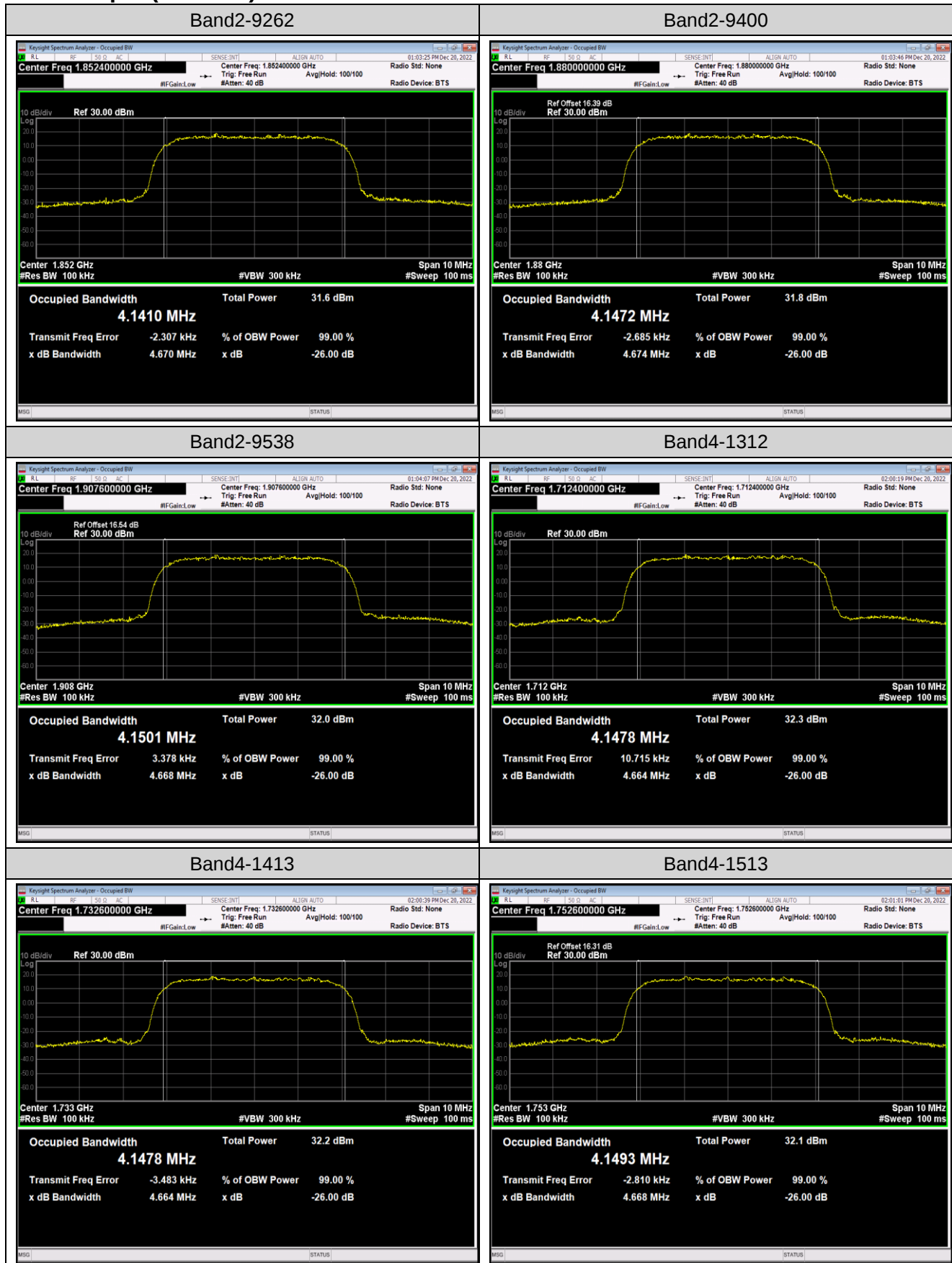


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1410	4.670	---	PASS
Band2	9400	4.1472	4.674	---	PASS
Band2	9538	4.1501	4.668	---	PASS
Band4	1312	4.1478	4.664	---	PASS
Band4	1413	4.1478	4.664	---	PASS
Band4	1513	4.1493	4.668	---	PASS
Band5	4132	4.1406	4.665	---	PASS
Band5	4183	4.1521	4.664	---	PASS
Band5	4233	4.1503	4.665	---	PASS

Test Graphs(WCDMA)



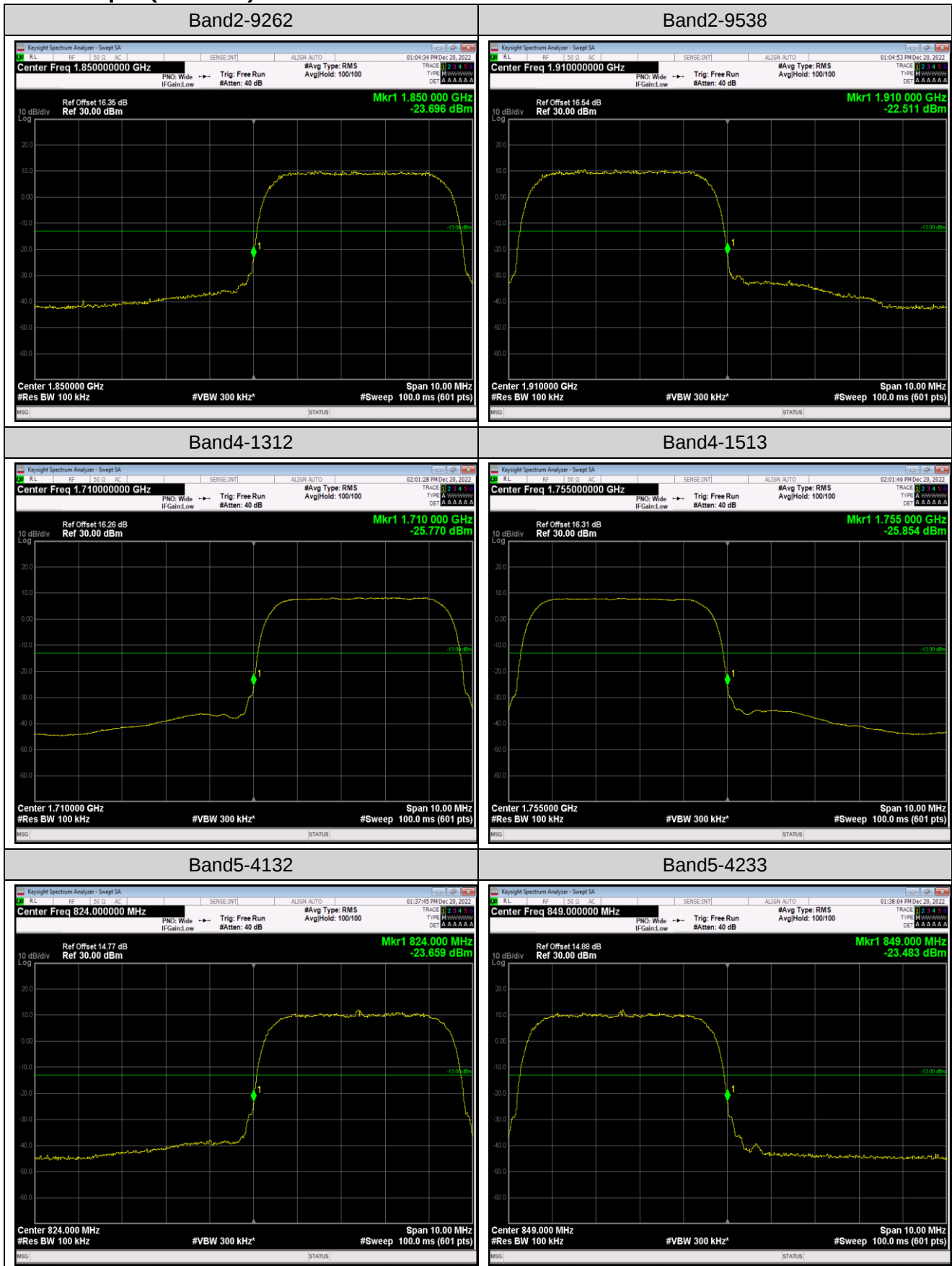


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-23.70	-13	PASS
Band2	9538	1910.00	-22.51	-13	PASS
Band4	1312	1710.00	-25.77	-13	PASS
Band4	1513	1755.00	-25.85	-13	PASS
Band5	4132	824.00	-23.66	-13	PASS
Band5	4233	849.00	-23.48	-13	PASS

Test Graphs(WCDMA)

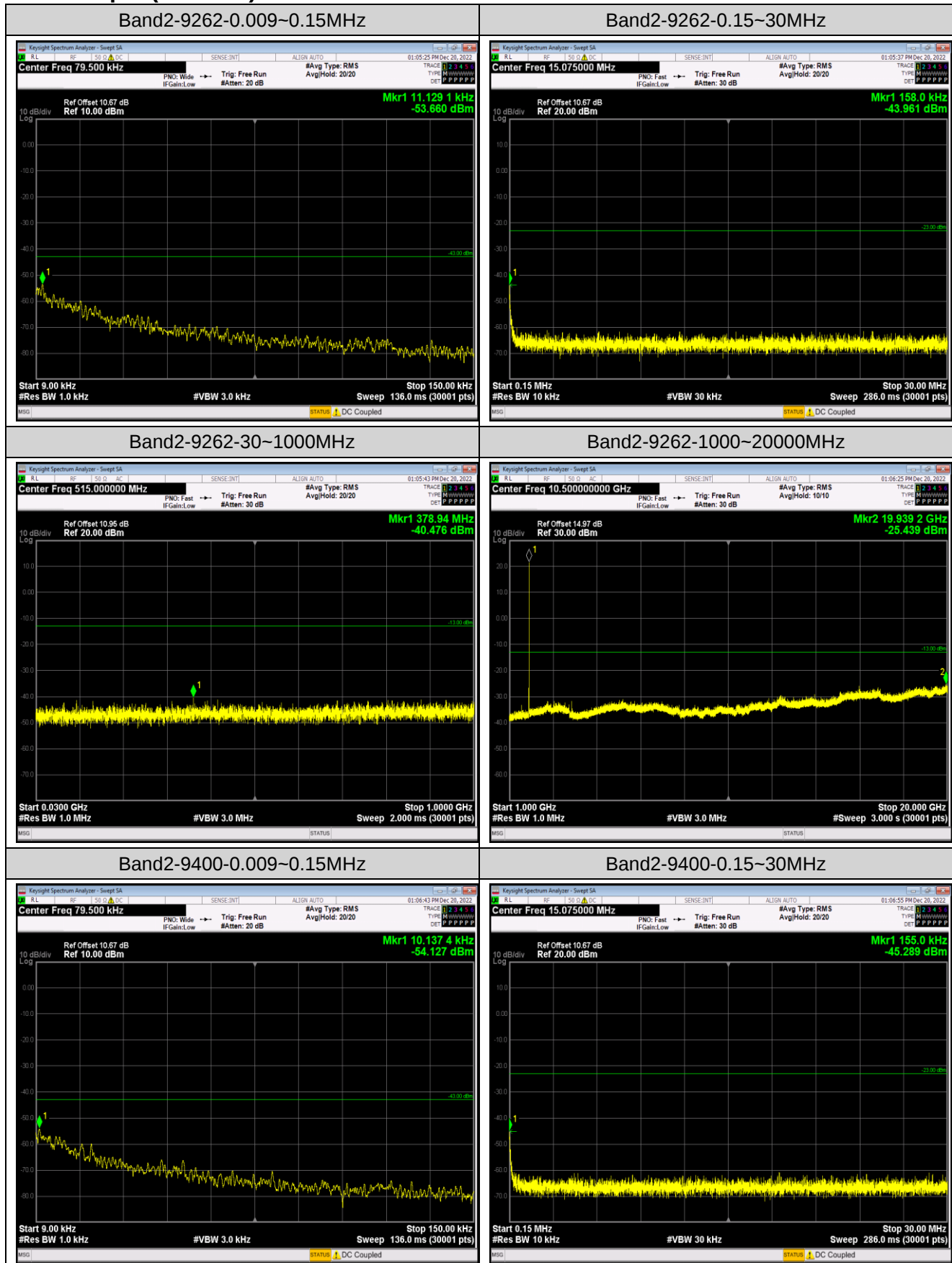


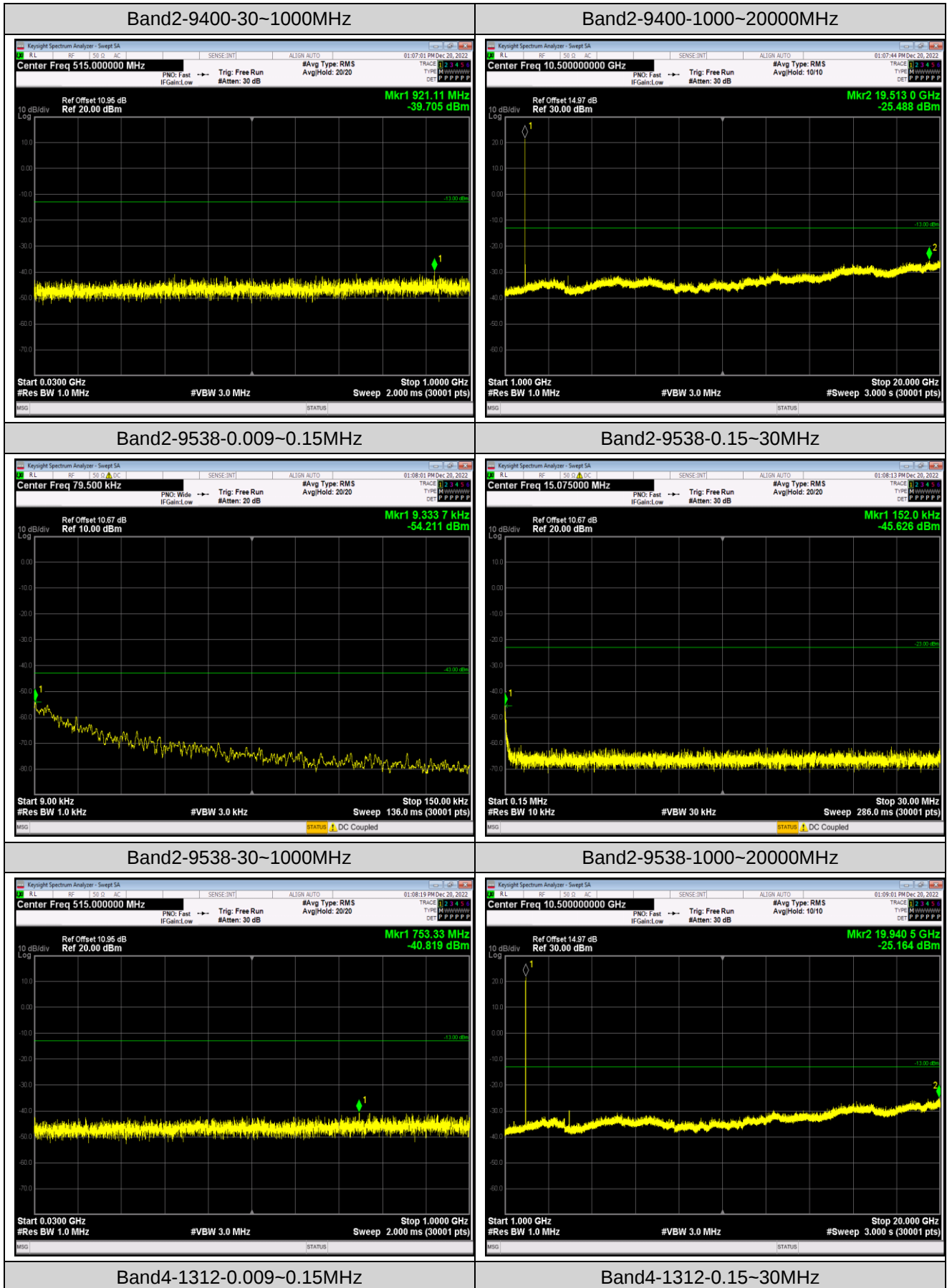
AppendixE:Conducted SpuriousEmission

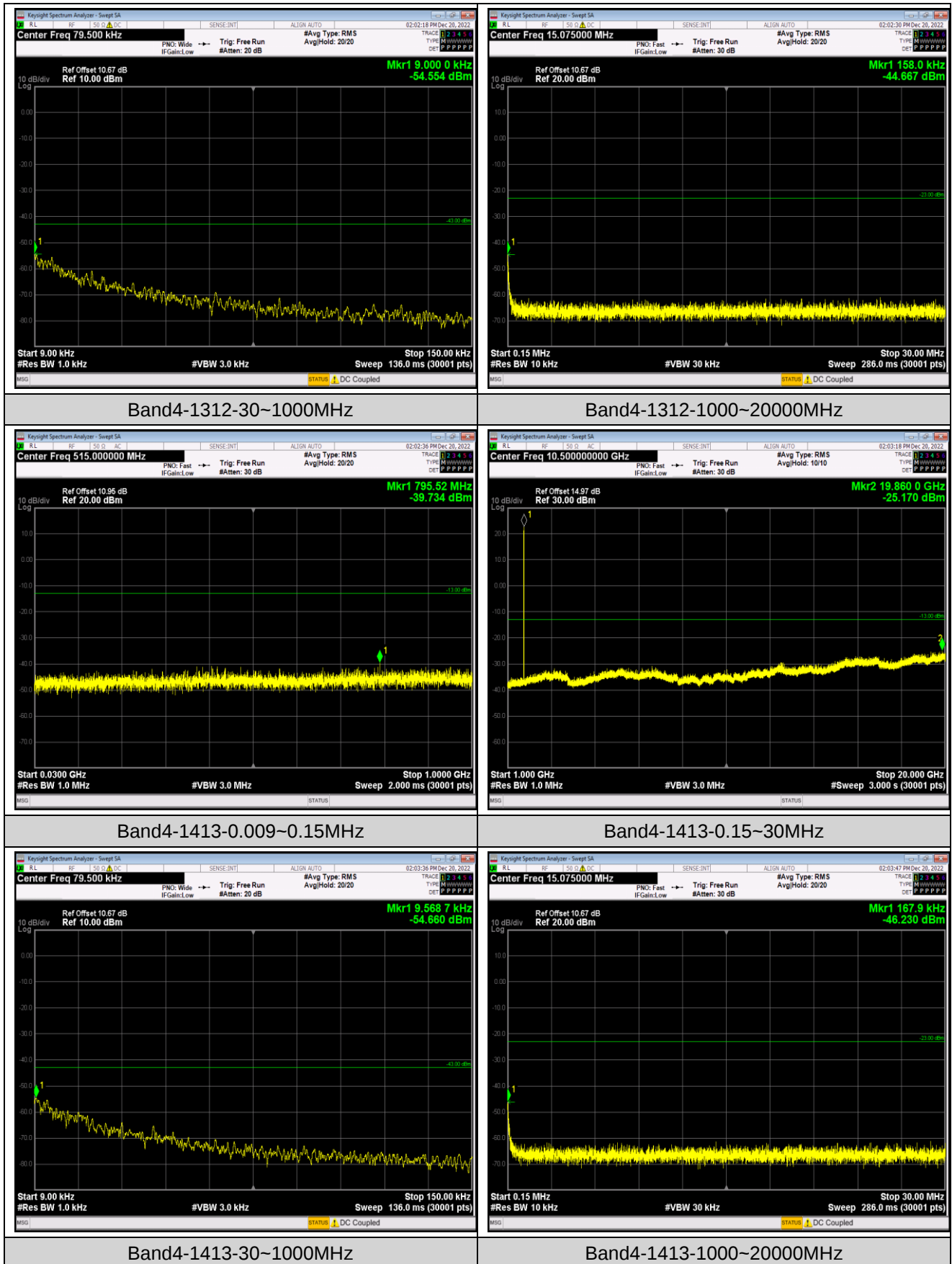
Test Result(WCDMA)

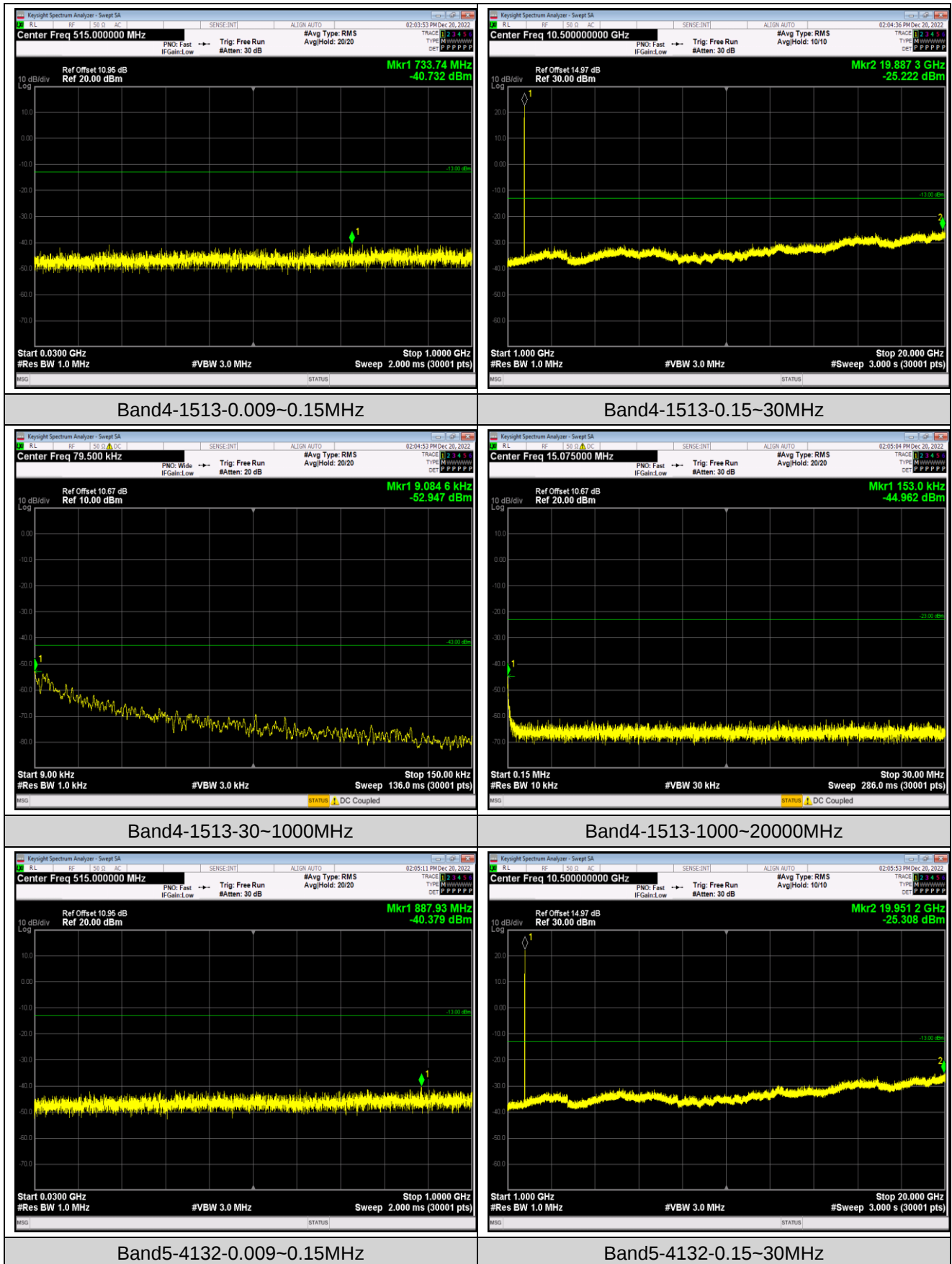
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-53.66	-43	PASS
Band2	9262	0.15~30MHz	0.16	-43.96	-23	PASS
Band2	9262	30~1000MHz	378.94	-40.48	-13	PASS
Band2	9262	1000~20000MHz	19939.2	-25.44	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-54.13	-43	PASS
Band2	9400	0.15~30MHz	0.15	-45.29	-23	PASS
Band2	9400	30~1000MHz	921.11	-39.71	-13	PASS
Band2	9400	1000~20000MHz	19512.97	-25.49	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-54.21	-43	PASS
Band2	9538	0.15~30MHz	0.15	-45.63	-23	PASS
Band2	9538	30~1000MHz	753.33	-40.82	-13	PASS
Band2	9538	1000~20000MHz	19940.47	-25.16	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-54.55	-43	PASS
Band4	1312	0.15~30MHz	0.16	-44.67	-23	PASS
Band4	1312	30~1000MHz	795.52	-39.73	-13	PASS
Band4	1312	1000~20000MHz	19860.03	-25.17	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-54.66	-43	PASS
Band4	1413	0.15~30MHz	0.17	-46.23	-23	PASS
Band4	1413	30~1000MHz	733.74	-40.73	-13	PASS
Band4	1413	1000~20000MHz	19887.27	-25.22	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-52.95	-43	PASS
Band4	1513	0.15~30MHz	0.15	-44.96	-23	PASS
Band4	1513	30~1000MHz	887.93	-40.38	-13	PASS
Band4	1513	1000~20000MHz	19951.23	-25.31	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-53.89	-33	PASS
Band5	4132	0.15~30MHz	0.15	-45.96	-13	PASS
Band5	4132	30~1000MHz	963.01	-50.31	-13	PASS
Band5	4132	1000~10000MHz	7229.8	-31.04	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-49.66	-33	PASS
Band5	4183	0.15~30MHz	0.16	-45.4	-13	PASS
Band5	4183	30~1000MHz	703.05	-50.41	-13	PASS
Band5	4183	1000~10000MHz	7519.3	-31.23	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-55.15	-33	PASS
Band5	4233	0.15~30MHz	0.15	-46.35	-13	PASS
Band5	4233	30~1000MHz	694	-49.3	-13	PASS
Band5	4233	1000~10000MHz	5821.3	-31.29	-13	PASS

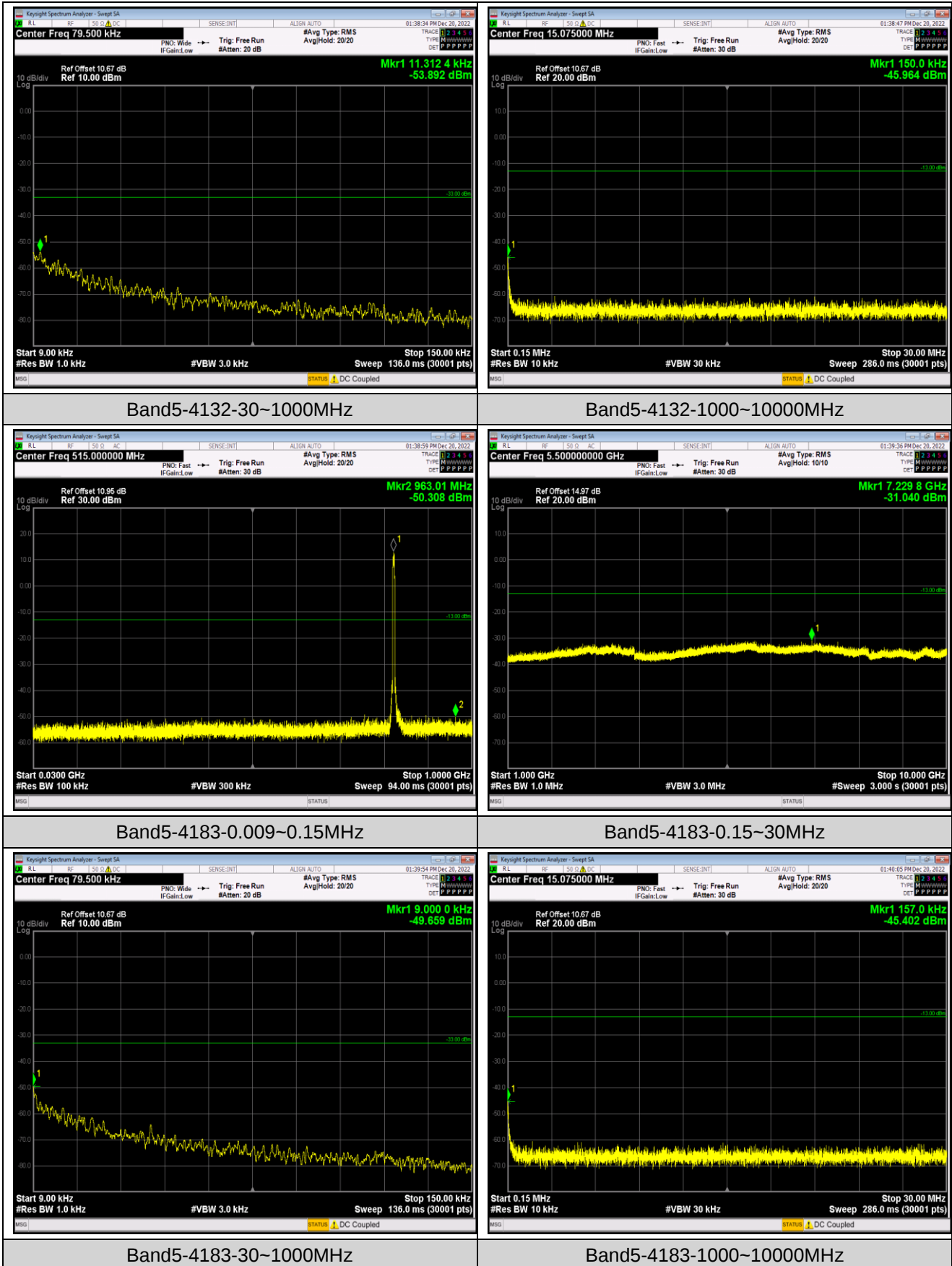
Test Graphs(WCDMA)

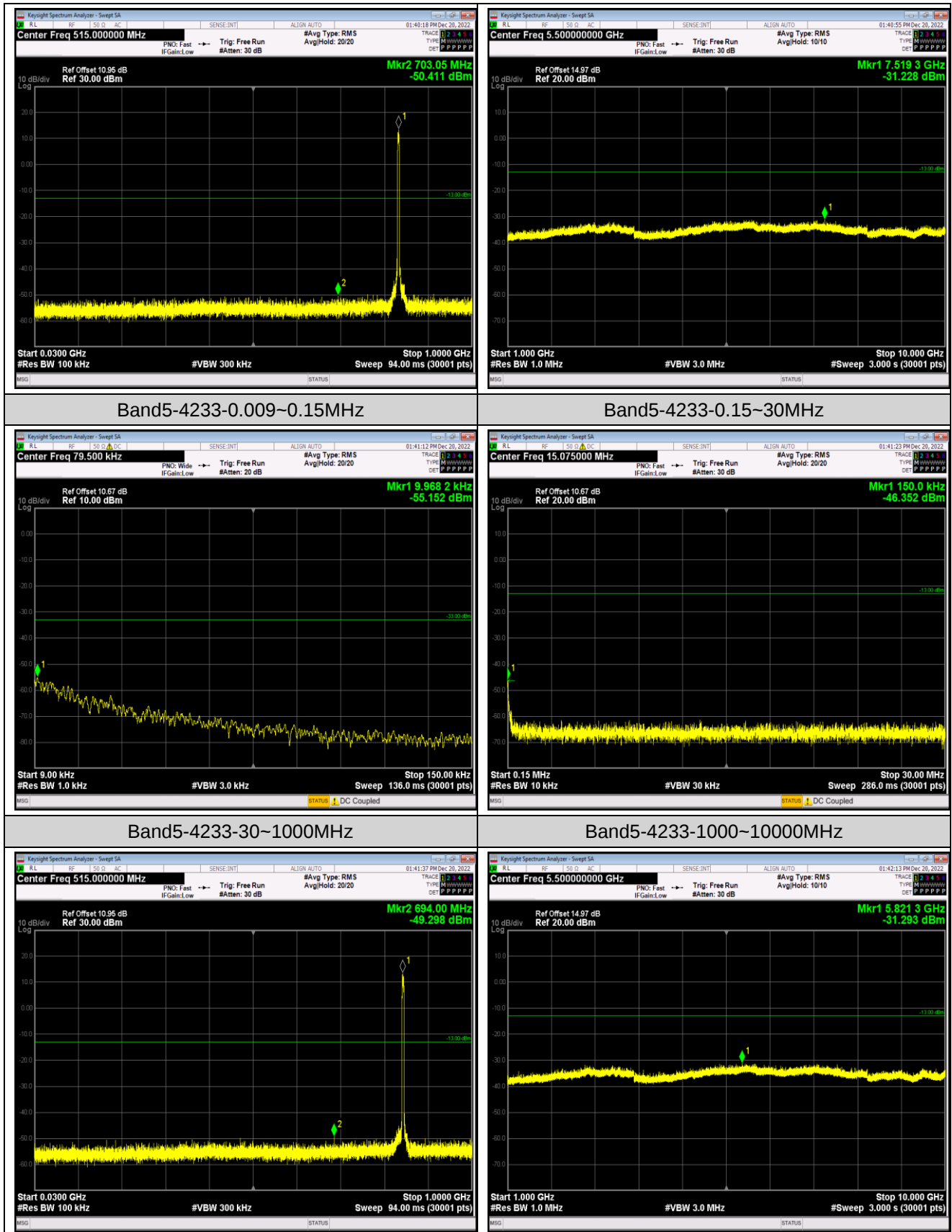












AppendixF:Frequency Stability

Test Result

Reference Frequency: WCDMA BAND V 12.2k RMC Middle channel=4183 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-0.69	-0.000825	±2.5	Pass
	-20	-1.26	-0.001506		
	-10	-1.11	-0.001327		
	0	2.35	0.002809		
	10	1.07	0.001279		
	20	1.04	0.001243		
	30	0.48	0.000574		
	40	-0.63	-0.000753		
	50	-0.21	-0.000251		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	1.04	0.001243	±2.5	Pass
	3.85	0.19	0.000227		
	4.40	-2.12	-0.002534		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-5.75	-0.003319	Within authorized band for BAND IV	Pass
	-20	7.91	0.004565		
	-10	4.84	0.002793		
	0	-1.41	-0.000814		
	10	-1.13	-0.000652		
	20	-1.87	-0.001079		
	30	3.00	0.001732		
	40	1.38	0.000796		
	50	3.85	0.002222		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	3.91	0.002257	Within authorized band for BAND IV	Pass
	3.85	-0.31	-0.000179		
	4.40	-2.48	-0.001431		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

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	-4.43	-0.002356	Within authorized band for BAND II	Pass
	-20	1.56	0.000830		
	-10	-6.38	-0.003394		
	0	5.29	0.002814		
	10	-5.90	-0.003138		
	20	-3.44	-0.001830		
	30	8.38	0.004457		
	40	-4.32	-0.002298		
	50	-3.57	-0.001899		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-0.87	-0.000463	Within authorized band for BAND II	Pass
	3.85	0.01	0.000005		
	4.40	2.11	0.001122		
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

