

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	21.86	21.36	33.01	PASS
Band2	TestMode	9262	22.01	21.51	33.01	PASS
Band2	TestMode	9400	22.26	21.76	33.01	PASS
Band2	Voice	9400	22.10	21.6	33.01	PASS
Band2	TestMode	9538	22.55	22.05	33.01	PASS
Band2	Voice	9538	22.45	21.95	33.01	PASS
Band4	Voice	1312	22.04	21.34	30.00	PASS
Band4	TestMode	1312	22.03	21.33	30.00	PASS
Band4	Voice	1413	21.84	21.14	30.00	PASS
Band4	TestMode	1413	21.87	21.17	30.00	PASS
Band4	TestMode	1513	21.84	21.14	30.00	PASS
Band4	Voice	1513	21.83	21.13	30.00	PASS
Band5	Voice	4132	23.18	19.53	38.45	PASS
Band5	TestMode	4132	23.18	19.53	38.45	PASS
Band5	TestMode	4183	23.18	19.53	38.45	PASS
Band5	Voice	4183	23.10	19.45	38.45	PASS
Band5	Voice	4233	23.10	19.45	38.45	PASS
Band5	TestMode	4233	23.14	19.49	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	20.99	20.49	33.01	PASS
Band2	9262	2	20.47	19.97	33.01	PASS
Band2	9262	3	20.53	20.03	33.01	PASS
Band2	9262	4	20.48	19.98	33.01	PASS
Band2	9400	1	21.23	20.73	33.01	PASS
Band2	9400	2	20.69	20.19	33.01	PASS
Band2	9400	3	20.74	20.24	33.01	PASS
Band2	9400	4	20.74	20.24	33.01	PASS
Band2	9538	1	21.55	21.05	33.01	PASS
Band2	9538	2	21.04	20.54	33.01	PASS
Band2	9538	3	21.09	20.59	33.01	PASS
Band2	9538	4	21.08	20.58	33.01	PASS

Band4	1312	1	21.17	20.47	30.00	PASS
Band4	1312	2	20.69	19.99	30.00	PASS
Band4	1312	3	20.73	20.03	30.00	PASS
Band4	1312	4	20.67	19.97	30.00	PASS
Band4	1413	1	21.03	20.33	30.00	PASS
Band4	1413	2	20.54	19.84	30.00	PASS
Band4	1413	3	20.56	19.86	30.00	PASS
Band4	1413	4	20.52	19.82	30.00	PASS
Band4	1513	1	21.00	20.3	30.00	PASS
Band4	1513	2	20.49	19.79	30.00	PASS
Band4	1513	3	20.51	19.81	30.00	PASS
Band4	1513	4	20.49	19.79	30.00	PASS
Band5	4132	1	22.16	18.51	38.5	PASS
Band5	4132	2	21.64	17.99	38.5	PASS
Band5	4132	3	21.70	18.05	38.5	PASS
Band5	4132	4	21.64	17.99	38.5	PASS
Band5	4183	1	22.16	18.51	38.5	PASS
Band5	4183	2	21.66	18.01	38.5	PASS
Band5	4183	3	21.70	18.05	38.5	PASS
Band5	4183	4	21.66	18.01	38.5	PASS
Band5	4233	1	22.16	18.51	38.5	PASS
Band5	4233	2	21.68	18.03	38.5	PASS
Band5	4233	3	21.69	18.04	38.5	PASS
Band5	4233	4	21.64	17.99	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	18.97	18.47	33.01	PASS
Band2	9262	2	19.46	18.96	33.01	PASS
Band2	9262	3	19.99	19.49	33.01	PASS
Band2	9262	4	18.95	18.45	33.01	PASS
Band2	9262	5	20.97	20.47	33.01	PASS
Band2	9400	1	19.16	18.66	33.01	PASS
Band2	9400	2	19.68	19.18	33.01	PASS
Band2	9400	3	20.17	19.67	33.01	PASS
Band2	9400	4	19.14	18.64	33.01	PASS
Band2	9400	5	21.18	20.68	33.01	PASS
Band2	9538	1	19.52	19.02	33.01	PASS
Band2	9538	2	20.02	19.52	33.01	PASS
Band2	9538	3	20.52	20.02	33.01	PASS

Band2	9538	4	19.48	18.98	33.01	PASS
Band2	9538	5	21.53	21.03	33.01	PASS
Band4	1312	1	19.33	18.63	30.00	PASS
Band4	1312	2	19.68	18.98	30.00	PASS
Band4	1312	3	20.18	19.48	30.00	PASS
Band4	1312	4	19.35	18.65	30.00	PASS
Band4	1312	5	21.22	20.52	30.00	PASS
Band4	1413	1	19.00	18.3	30.00	PASS
Band4	1413	2	19.53	18.83	30.00	PASS
Band4	1413	3	20.06	19.36	30.00	PASS
Band4	1413	4	19.05	18.35	30.00	PASS
Band4	1413	5	21.09	20.39	30.00	PASS
Band4	1513	1	18.99	18.29	30.00	PASS
Band4	1513	2	19.49	18.79	30.00	PASS
Band4	1513	3	20.00	19.3	30.00	PASS
Band4	1513	4	19.00	18.3	30.00	PASS
Band4	1513	5	21.01	20.31	30.00	PASS
Band5	4132	1	20.16	16.51	38.5	PASS
Band5	4132	2	20.57	16.92	38.5	PASS
Band5	4132	3	21.11	17.46	38.5	PASS
Band5	4132	4	20.17	16.52	38.5	PASS
Band5	4132	5	22.19	18.54	38.5	PASS
Band5	4183	1	20.16	16.51	38.5	PASS
Band5	4183	2	20.60	16.95	38.5	PASS
Band5	4183	3	21.12	17.47	38.5	PASS
Band5	4183	4	20.19	16.54	38.5	PASS
Band5	4183	5	22.18	18.53	38.5	PASS
Band5	4233	1	20.15	16.5	38.5	PASS
Band5	4233	2	20.58	16.93	38.5	PASS
Band5	4233	3	21.08	17.43	38.5	PASS
Band5	4233	4	20.17	16.52	38.5	PASS
Band5	4233	5	22.18	18.53	38.5	PASS

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

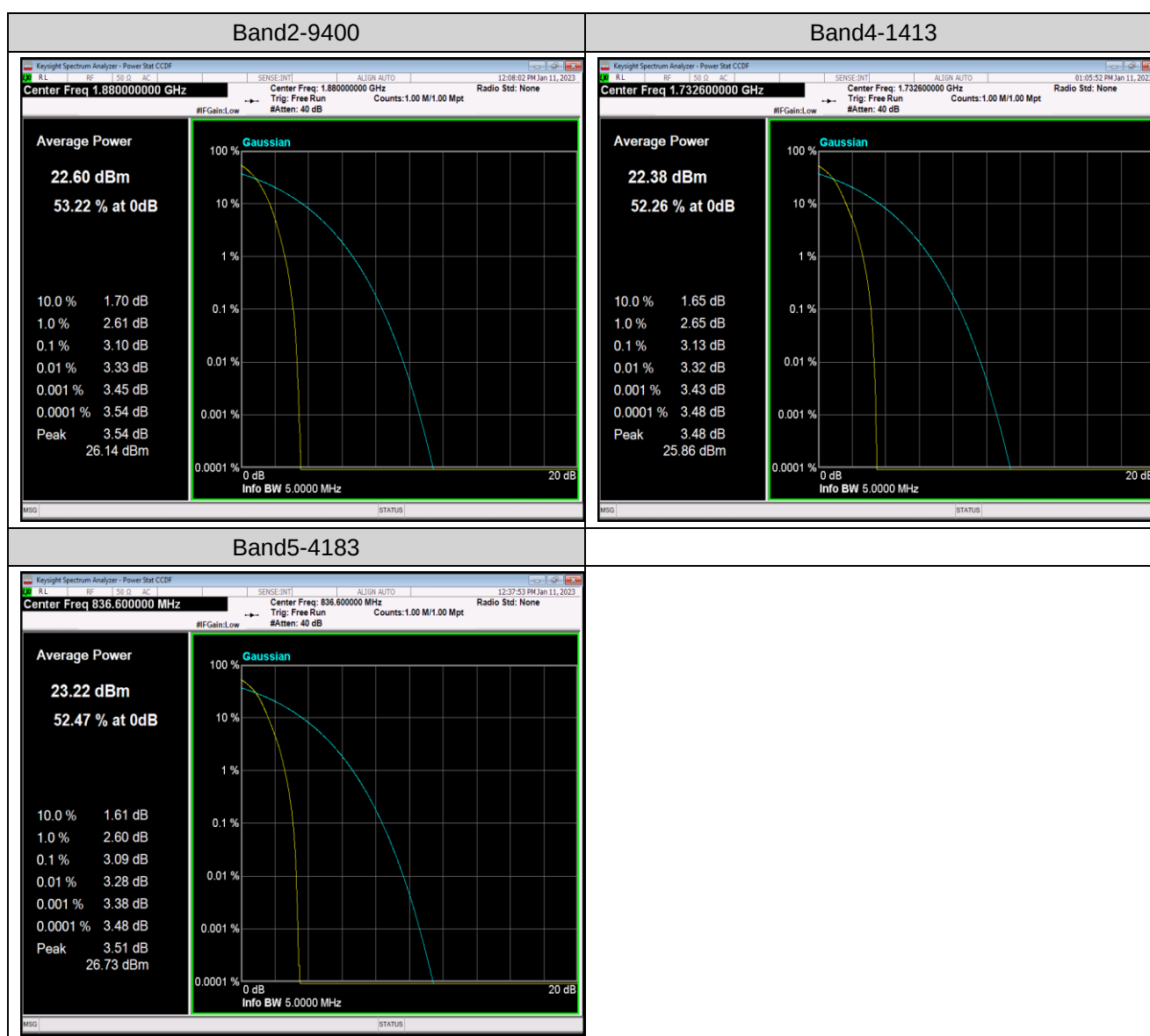
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.1	13	PASS
Band4	1413	3.13	13	PASS
Band5	4183	3.09	13	PASS

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

Test Graphs(WCDMA)

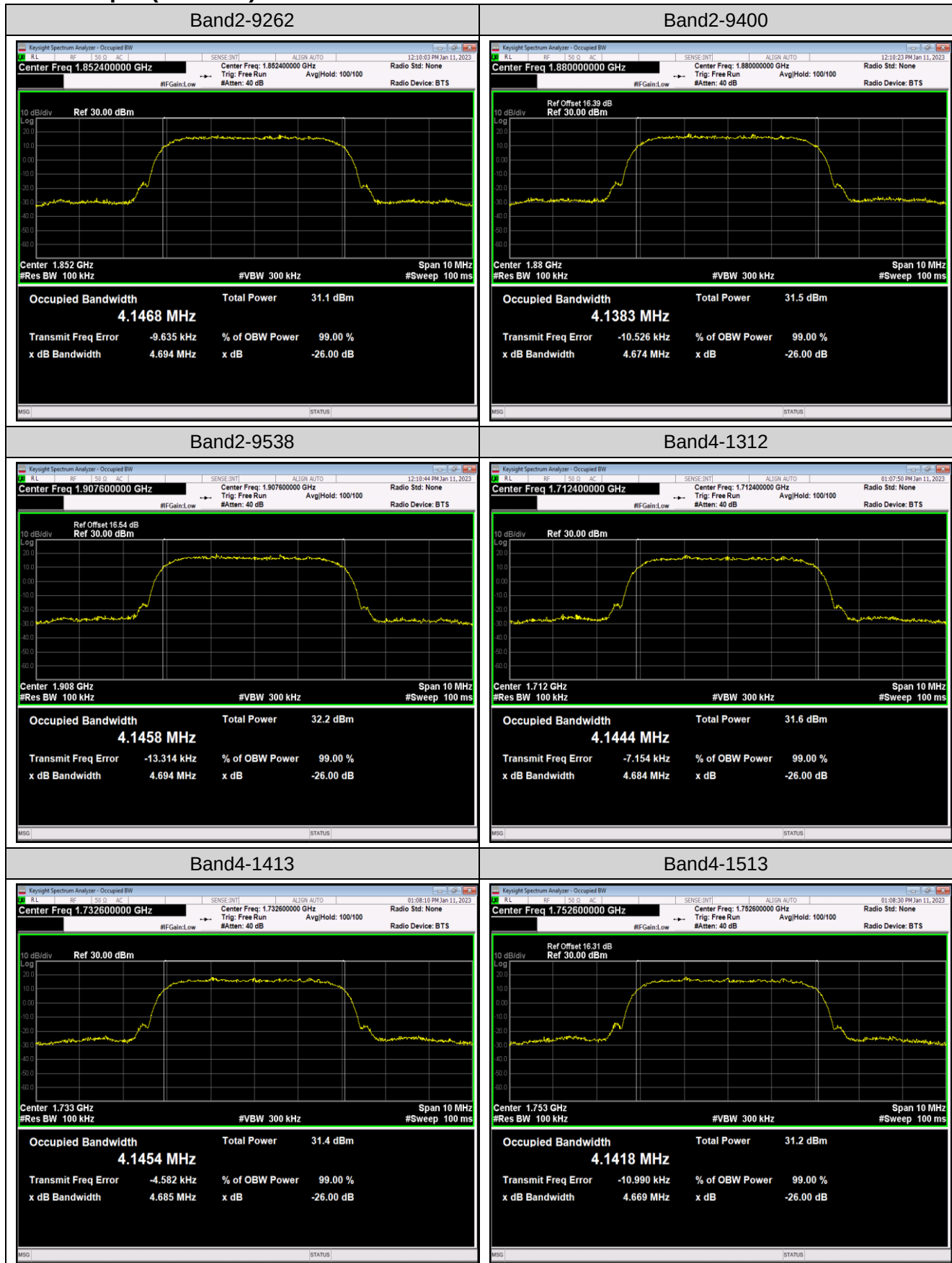


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1468	4.694	---	PASS
Band2	9400	4.1383	4.674	---	PASS
Band2	9538	4.1458	4.694	---	PASS
Band4	1312	4.1444	4.684	---	PASS
Band4	1413	4.1454	4.685	---	PASS
Band4	1513	4.1418	4.669	---	PASS
Band5	4132	4.1468	4.684	---	PASS
Band5	4183	4.1495	4.686	---	PASS
Band5	4233	4.1465	4.683	---	PASS

Test Graphs(WCDMA)



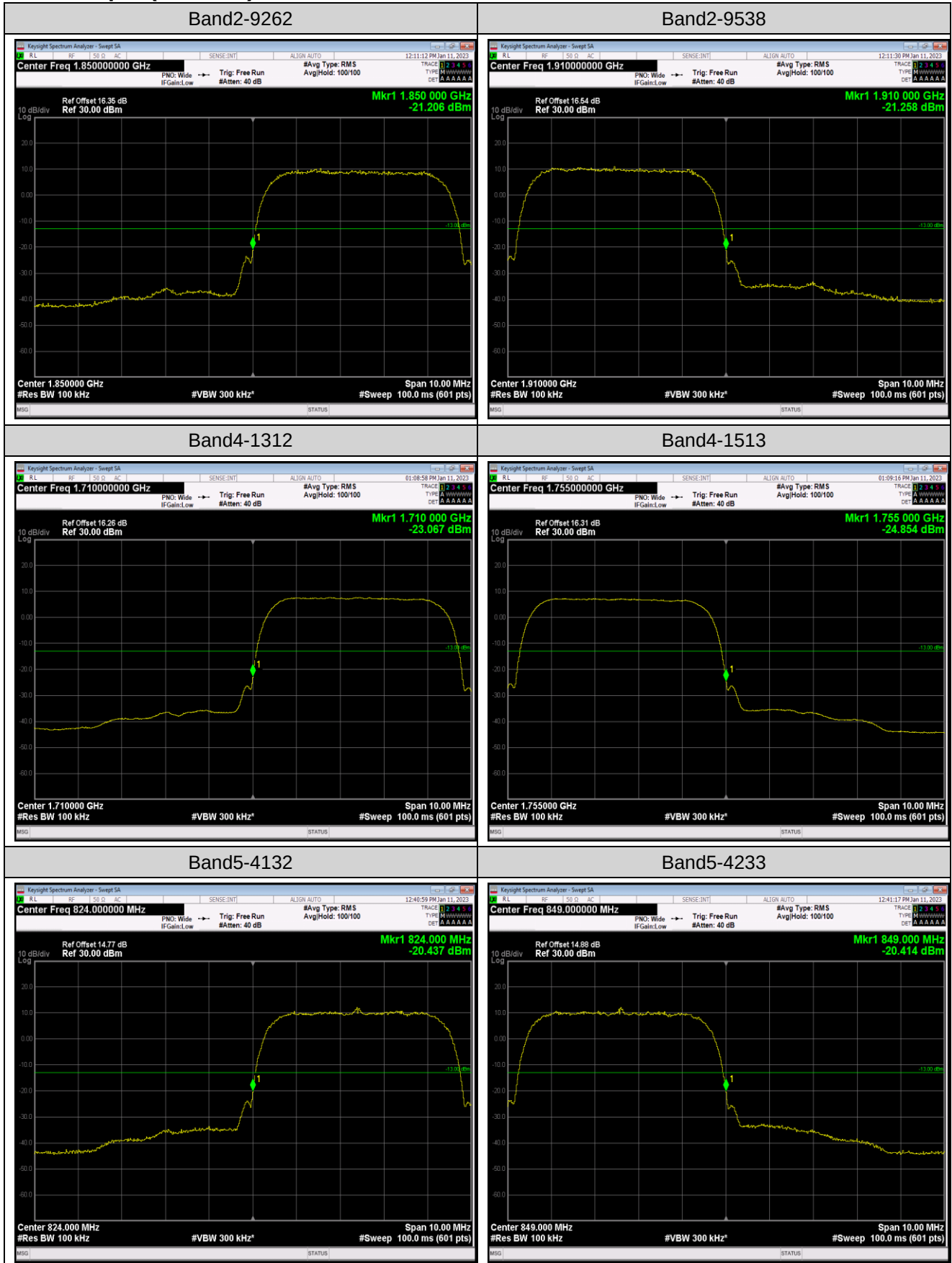


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-21.21	-13	PASS
Band2	9538	1910.00	-21.26	-13	PASS
Band4	1312	1710.00	-23.07	-13	PASS
Band4	1513	1755.00	-24.85	-13	PASS
Band5	4132	824.00	-20.44	-13	PASS
Band5	4233	849.00	-20.41	-13	PASS

Test Graphs(WCDMA)

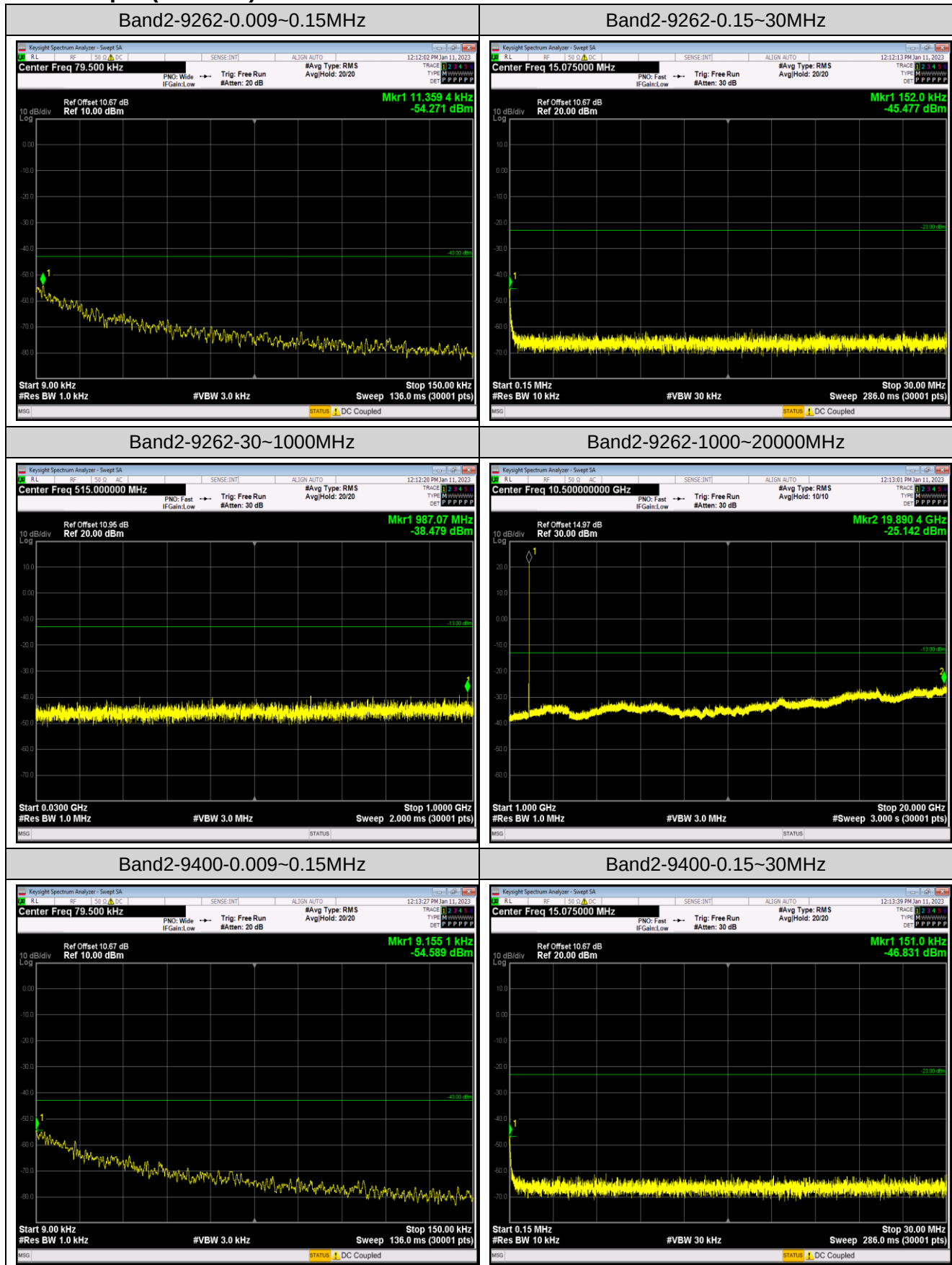


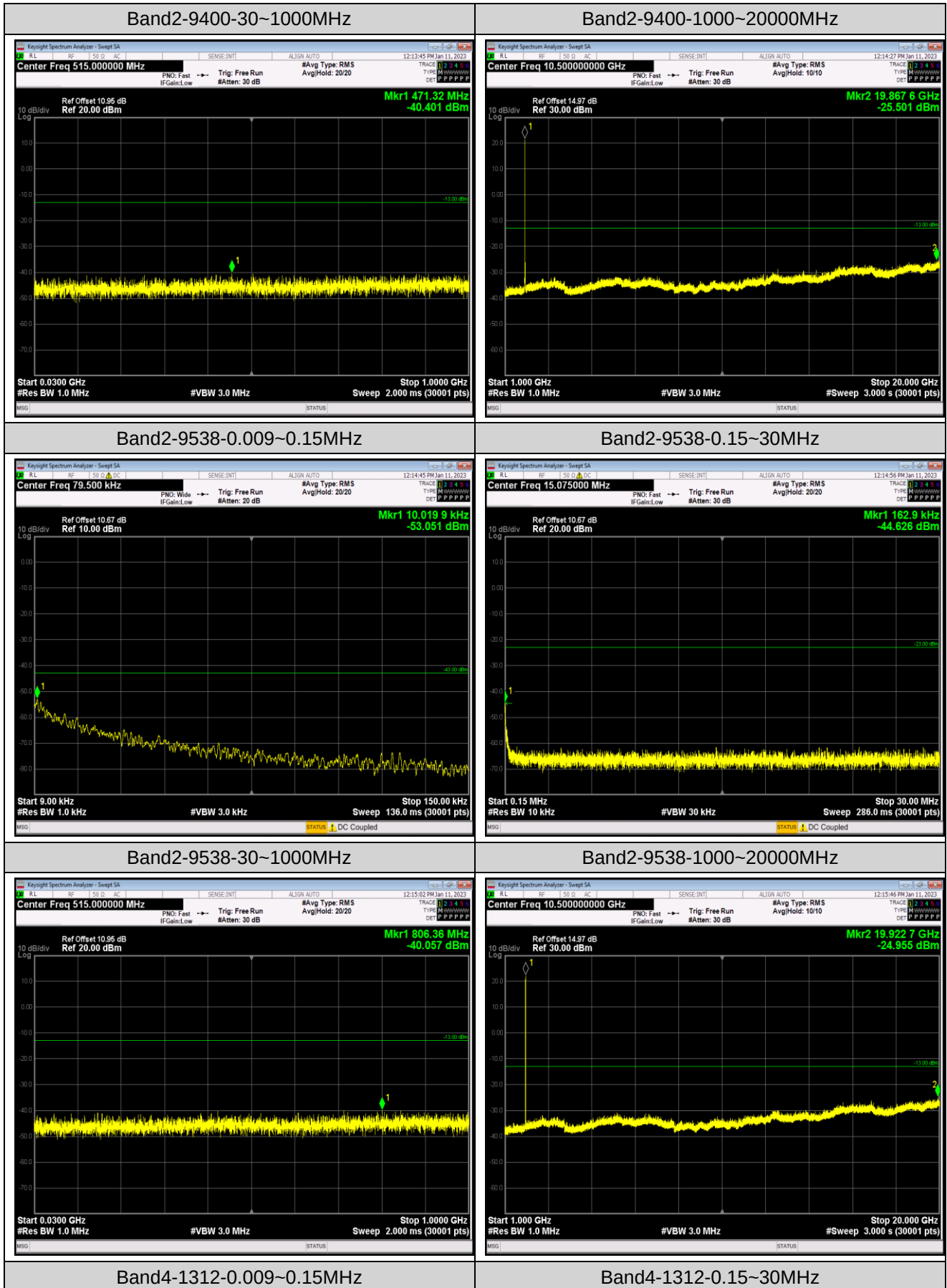
AppendixE:Conducted SpuriousEmission

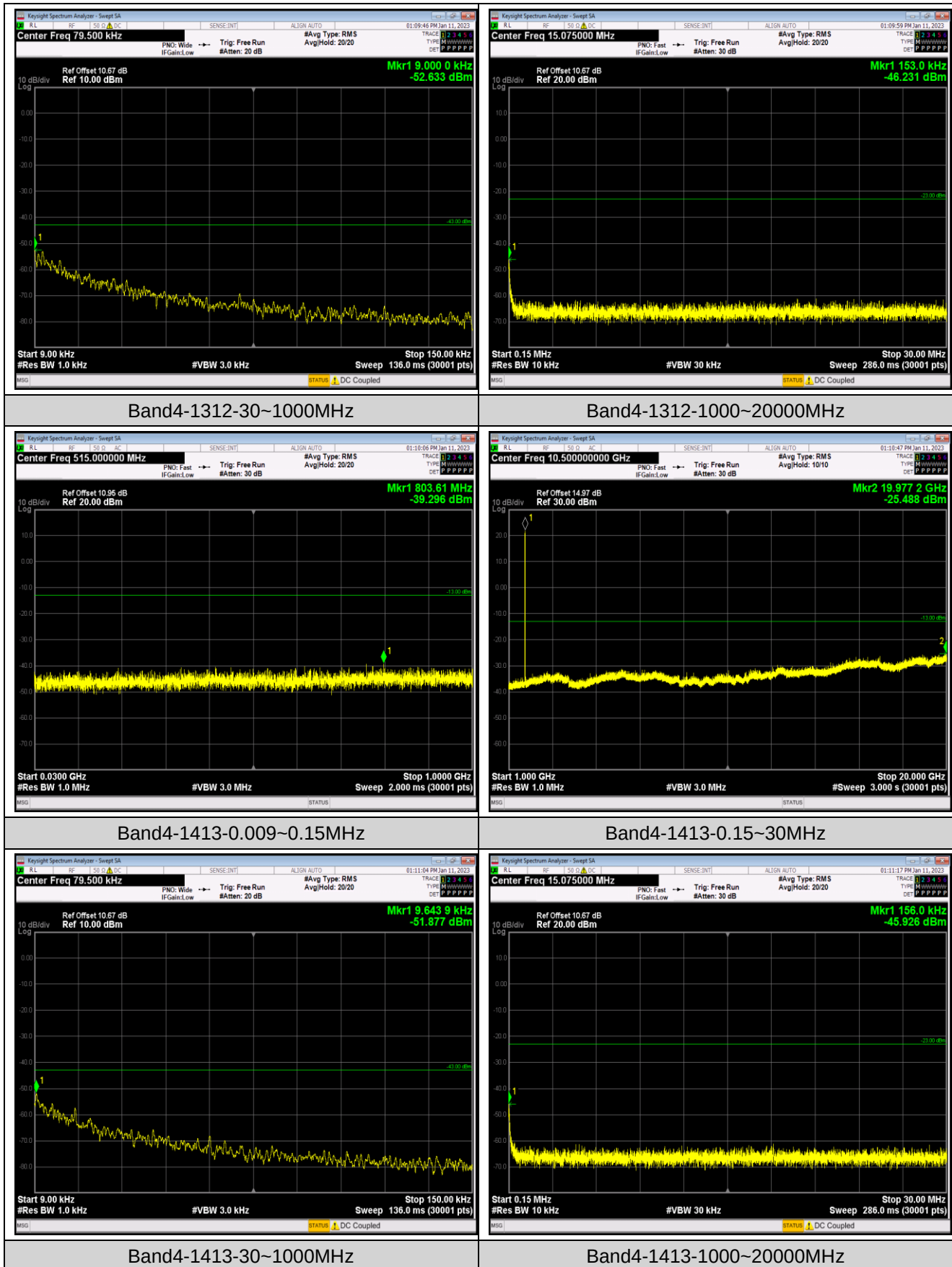
Test Result(WCDMA)

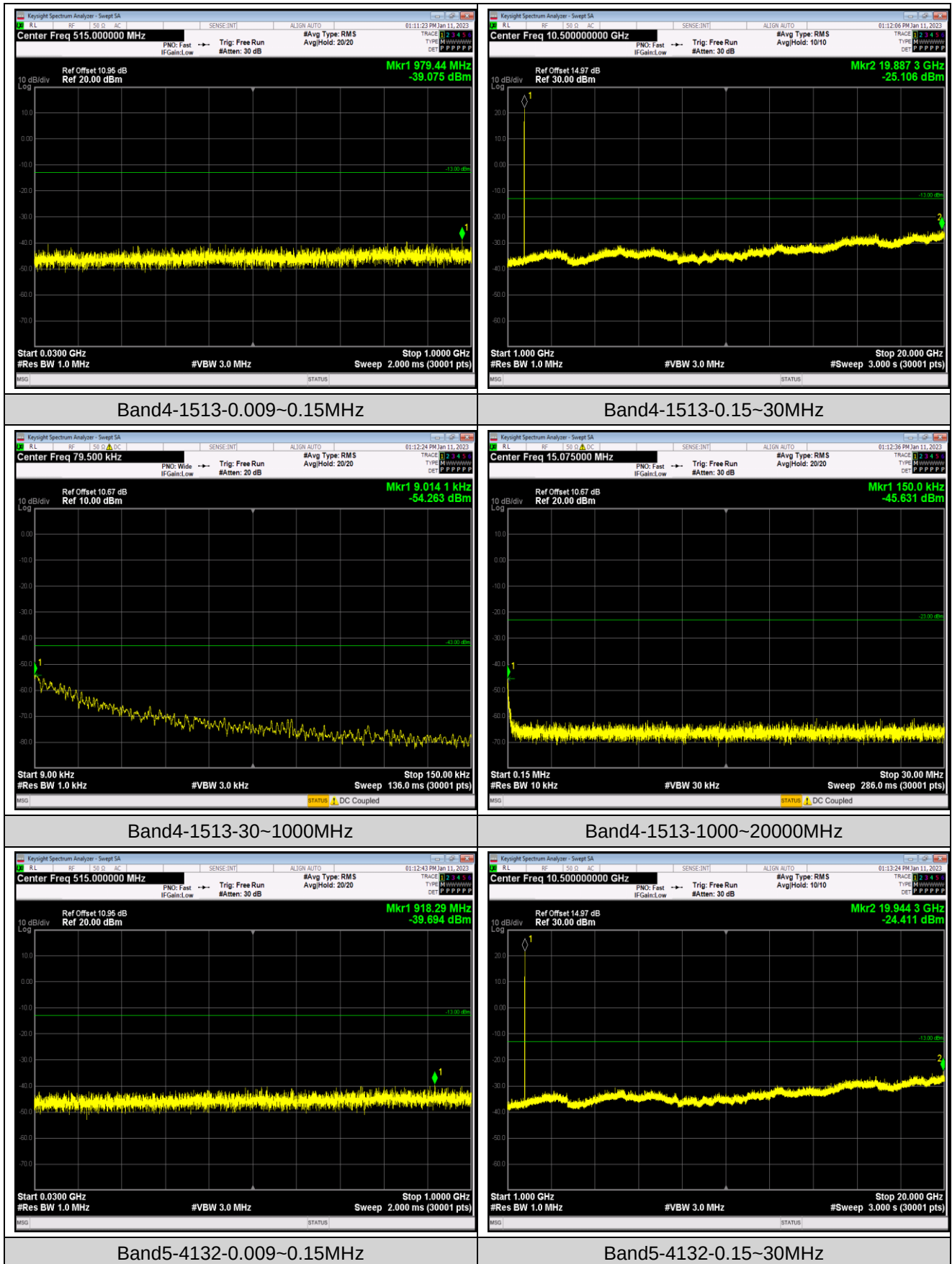
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-54.27	-43	PASS
Band2	9262	0.15~30MHz	0.15	-45.48	-23	PASS
Band2	9262	30~1000MHz	987.07	-38.48	-13	PASS
Band2	9262	1000~20000MHz	19890.43	-25.14	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-54.59	-43	PASS
Band2	9400	0.15~30MHz	0.15	-46.83	-23	PASS
Band2	9400	30~1000MHz	471.32	-40.4	-13	PASS
Band2	9400	1000~20000MHz	19867.63	-25.5	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-53.05	-43	PASS
Band2	9538	0.15~30MHz	0.16	-44.63	-23	PASS
Band2	9538	30~1000MHz	806.36	-40.06	-13	PASS
Band2	9538	1000~20000MHz	19922.73	-24.96	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-52.63	-43	PASS
Band4	1312	0.15~30MHz	0.15	-46.23	-23	PASS
Band4	1312	30~1000MHz	803.61	-39.3	-13	PASS
Band4	1312	1000~20000MHz	19977.2	-25.49	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-51.88	-43	PASS
Band4	1413	0.15~30MHz	0.16	-45.93	-23	PASS
Band4	1413	30~1000MHz	979.44	-39.08	-13	PASS
Band4	1413	1000~20000MHz	19887.27	-25.11	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-54.26	-43	PASS
Band4	1513	0.15~30MHz	0.15	-45.63	-23	PASS
Band4	1513	30~1000MHz	918.29	-39.69	-13	PASS
Band4	1513	1000~20000MHz	19944.27	-24.41	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-52.47	-33	PASS
Band5	4132	0.15~30MHz	0.15	-45.03	-13	PASS
Band5	4132	30~1000MHz	634.99	-48.48	-13	PASS
Band5	4132	1000~10000MHz	7165	-31.01	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-54.96	-33	PASS
Band5	4183	0.15~30MHz	0.15	-44.61	-13	PASS
Band5	4183	30~1000MHz	956.12	-47.76	-13	PASS
Band5	4183	1000~10000MHz	5854.6	-30.76	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-52.31	-33	PASS
Band5	4233	0.15~30MHz	0.15	-43.17	-13	PASS
Band5	4233	30~1000MHz	574.56	-49.13	-13	PASS
Band5	4233	1000~10000MHz	5626.9	-30.36	-13	PASS

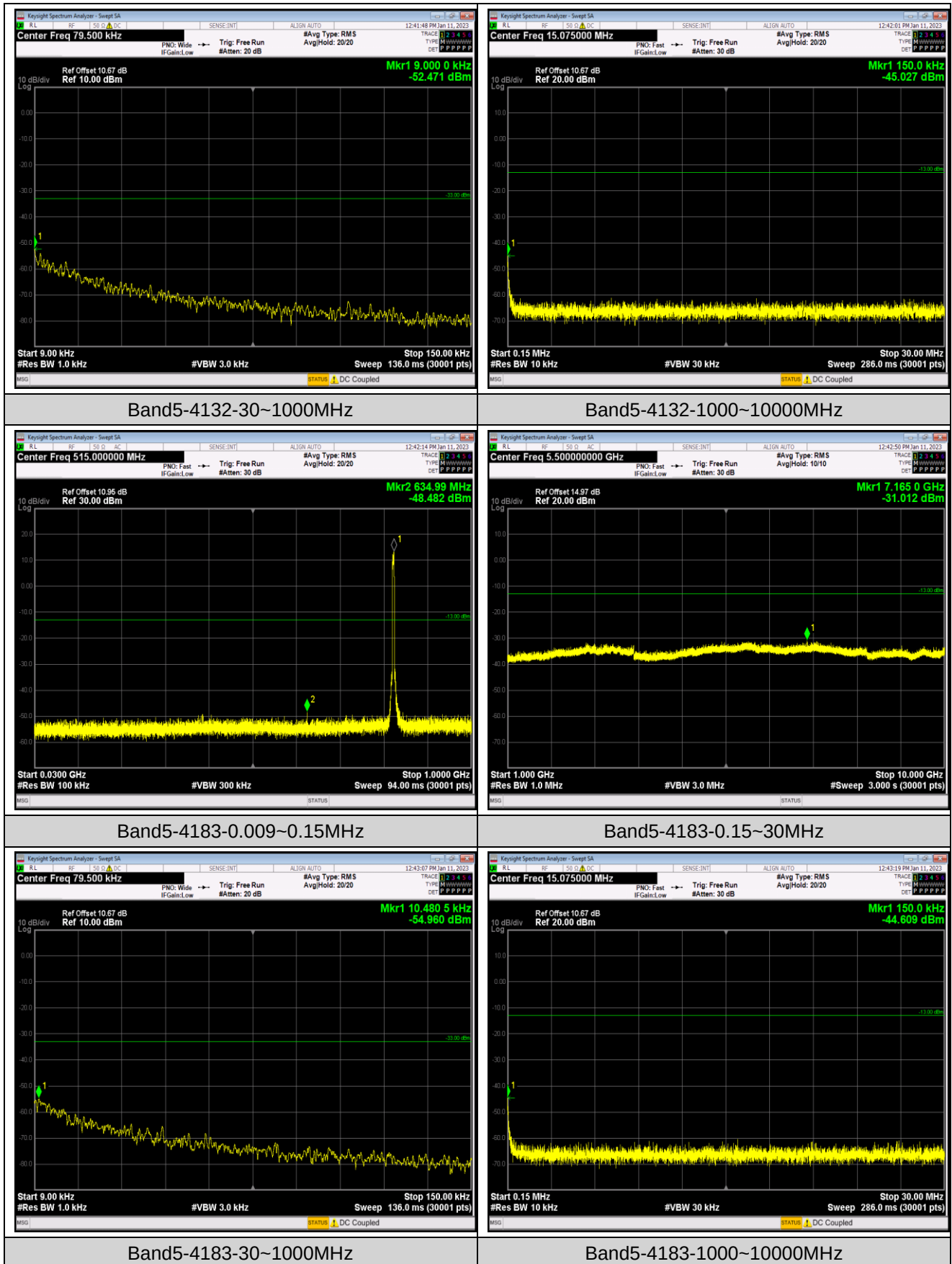
Test Graphs(WCDMA)

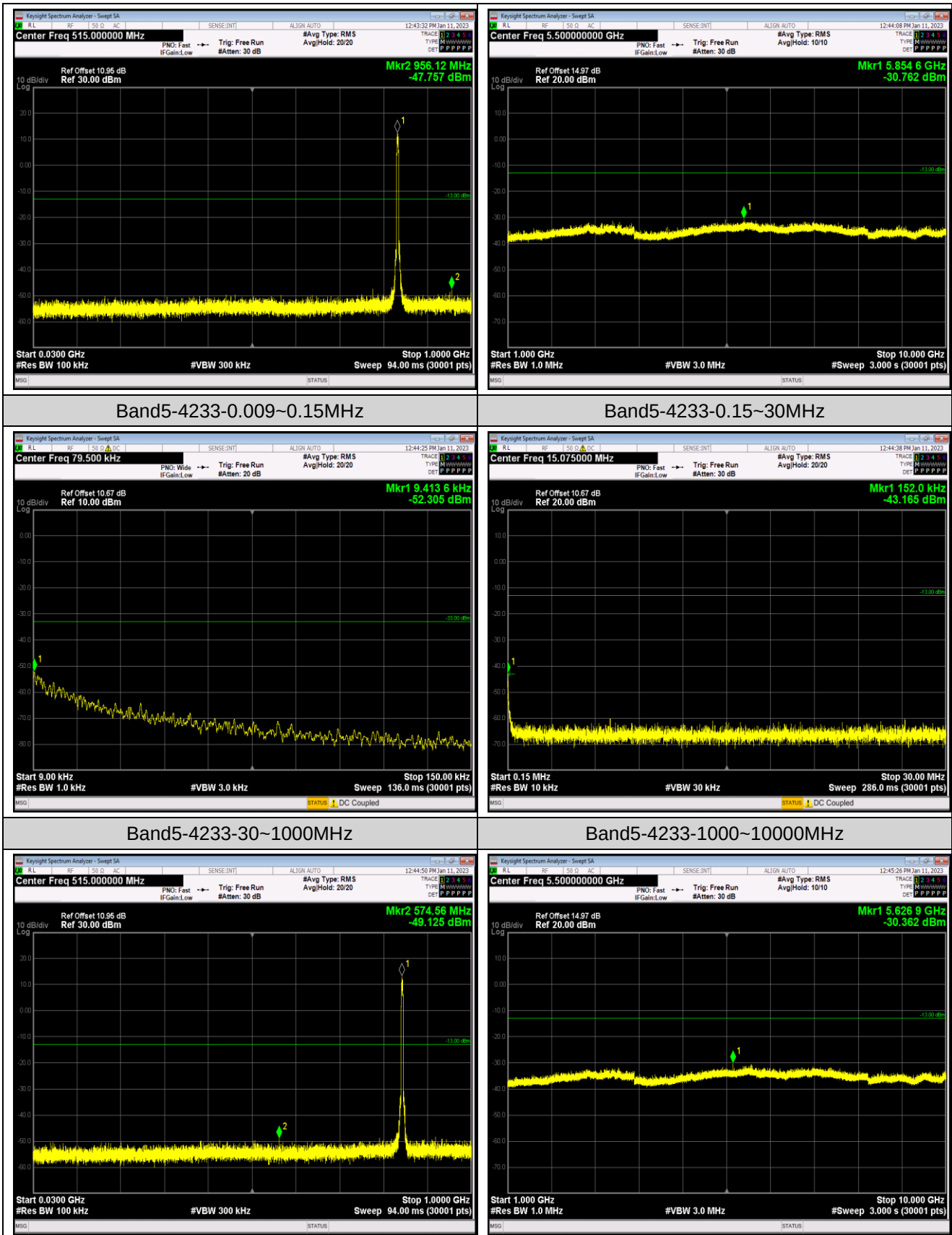












Appendix F: Frequency Stability

Test Result

Reference Frequency: WCDMA BAND V 12.2k RMC Middle channel=4183 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.87	-30	0.36	0.000430	±2.5	Pass
	-20	0.83	0.000992		
	-10	0.42	0.000502		
	0	1.04	0.001243		
	10	0.20	0.000239		
	20	0.21	0.000251		
	30	0.62	0.000741		
	40	0.57	0.000681		
	50	1.08	0.001291		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	0.72	0.000861	±2.5	Pass
	3.87	1.16	0.001387		
	4.45	0.82	0.000980		
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		
3.87	-30	1.46	0.000843	Within authorized band for BAND IV	Pass
	-20	1.04	0.000600		
	-10	0.67	0.000387		
	0	1.32	0.000762		
	10	0.89	0.000514		
	20	1.70	0.000981		
	30	1.36	0.000785		
	40	1.32	0.000762		
	50	0.49	0.000283		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	0.82	0.000473	Within authorized band for BAND IV	Pass
	3.87	1.07	0.000618		
	4.45	1.19	0.000687		
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		
3.87	-30	2.98	0.001585	Within authorized band for BAND II	Pass
	-20	3.10	0.001649		
	-10	2.93	0.001559		
	0	3.54	0.001883		
	10	3.53	0.001878		
	20	3.11	0.001654		
	30	2.65	0.001410		
	40	2.75	0.001463		
	50	2.95	0.001569		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	3.53	0.001878	Within authorized band for BAND II	Pass
	3.87	4.08	0.002170		
	4.45	3.55	0.001888		
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

