

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	22.60	21.3	33.01	PASS
Band2	TestMode	9262	22.64	21.34	33.01	PASS
Band2	TestMode	9400	23.07	21.77	33.01	PASS
Band2	Voice	9400	23.04	21.74	33.01	PASS
Band2	TestMode	9538	23.30	22	33.01	PASS
Band2	Voice	9538	23.29	21.99	33.01	PASS
Band4	Voice	1312	22.77	21.37	30.00	PASS
Band4	TestMode	1312	22.93	21.53	30.00	PASS
Band4	Voice	1413	22.98	21.58	30.00	PASS
Band4	TestMode	1413	22.99	21.59	30.00	PASS
Band4	TestMode	1513	22.94	21.54	30.00	PASS
Band4	Voice	1513	22.96	21.56	30.00	PASS
Band5	Voice	4132	24.20	17.05	38.45	PASS
Band5	TestMode	4132	24.16	17.01	38.45	PASS
Band5	TestMode	4183	23.95	16.8	38.45	PASS
Band5	Voice	4183	23.85	16.7	38.45	PASS
Band5	Voice	4233	23.92	16.77	38.45	PASS
Band5	TestMode	4233	24.00	16.85	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.46	21.16	33.01	PASS
Band2	9262	2	22.57	21.27	33.01	PASS
Band2	9262	3	21.64	20.34	33.01	PASS
Band2	9262	4	21.64	20.34	33.01	PASS
Band2	9400	1	23.08	21.78	33.01	PASS
Band2	9400	2	23.15	21.85	33.01	PASS
Band2	9400	3	22.03	20.73	33.01	PASS
Band2	9400	4	22.05	20.75	33.01	PASS
Band2	9538	1	23.00	21.7	33.01	PASS
Band2	9538	2	23.01	21.71	33.01	PASS
Band2	9538	3	22.23	20.93	33.01	PASS
Band2	9538	4	22.30	21	33.01	PASS

Band4	1312	1	22.79	21.39	30.00	PASS
Band4	1312	2	22.80	21.4	30.00	PASS
Band4	1312	3	22.77	21.37	30.00	PASS
Band4	1312	4	22.79	21.39	30.00	PASS
Band4	1413	1	22.58	21.18	30.00	PASS
Band4	1413	2	22.66	21.26	30.00	PASS
Band4	1413	3	22.66	21.26	30.00	PASS
Band4	1413	4	22.66	21.26	30.00	PASS
Band4	1513	1	22.30	20.9	30.00	PASS
Band4	1513	2	22.42	21.02	30.00	PASS
Band4	1513	3	22.35	20.95	30.00	PASS
Band4	1513	4	22.39	20.99	30.00	PASS
Band5	4132	1	24.93	17.78	38.5	PASS
Band5	4132	2	24.54	17.39	38.5	PASS
Band5	4132	3	24.05	16.9	38.5	PASS
Band5	4132	4	24.07	16.92	38.5	PASS
Band5	4183	1	24.37	17.22	38.5	PASS
Band5	4183	2	24.07	16.92	38.5	PASS
Band5	4183	3	23.60	16.45	38.5	PASS
Band5	4183	4	23.60	16.45	38.5	PASS
Band5	4233	1	24.69	17.54	38.5	PASS
Band5	4233	2	24.26	17.11	38.5	PASS
Band5	4233	3	23.78	16.63	38.5	PASS
Band5	4233	4	23.74	16.59	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.93	18.63	33.01	PASS
Band2	9262	2	20.58	19.28	33.01	PASS
Band2	9262	3	20.36	19.06	33.01	PASS
Band2	9262	4	20.66	19.36	33.01	PASS
Band2	9262	5	22.74	21.44	33.01	PASS
Band2	9400	1	20.75	19.45	33.01	PASS
Band2	9400	2	21.21	19.91	33.01	PASS
Band2	9400	3	20.95	19.65	33.01	PASS
Band2	9400	4	21.27	19.97	33.01	PASS
Band2	9400	5	23.18	21.88	33.01	PASS
Band2	9538	1	20.65	19.35	33.01	PASS
Band2	9538	2	21.13	19.83	33.01	PASS
Band2	9538	3	20.83	19.53	33.01	PASS

Band2	9538	4	21.19	19.89	33.01	PASS
Band2	9538	5	23.14	21.84	33.01	PASS
Band4	1312	1	22.76	21.36	30.00	PASS
Band4	1312	2	22.72	21.32	30.00	PASS
Band4	1312	3	22.59	21.19	30.00	PASS
Band4	1312	4	22.75	21.35	30.00	PASS
Band4	1312	5	22.98	21.58	30.00	PASS
Band4	1413	1	22.66	21.26	30.00	PASS
Band4	1413	2	22.72	21.32	30.00	PASS
Band4	1413	3	22.50	21.1	30.00	PASS
Band4	1413	4	22.75	21.35	30.00	PASS
Band4	1413	5	22.81	21.41	30.00	PASS
Band4	1513	1	22.40	21	30.00	PASS
Band4	1513	2	22.52	21.12	30.00	PASS
Band4	1513	3	22.23	20.83	30.00	PASS
Band4	1513	4	22.54	21.14	30.00	PASS
Band4	1513	5	22.58	21.18	30.00	PASS
Band5	4132	1	21.64	14.49	38.5	PASS
Band5	4132	2	21.76	14.61	38.5	PASS
Band5	4132	3	21.56	14.41	38.5	PASS
Band5	4132	4	21.33	14.18	38.5	PASS
Band5	4132	5	24.91	17.76	38.5	PASS
Band5	4183	1	21.08	13.93	38.5	PASS
Band5	4183	2	21.29	14.14	38.5	PASS
Band5	4183	3	21.01	13.86	38.5	PASS
Band5	4183	4	20.90	13.75	38.5	PASS
Band5	4183	5	24.62	17.47	38.5	PASS
Band5	4233	1	21.14	13.99	38.5	PASS
Band5	4233	2	21.28	14.13	38.5	PASS
Band5	4233	3	21.06	13.91	38.5	PASS
Band5	4233	4	20.89	13.74	38.5	PASS
Band5	4233	5	24.72	17.57	38.5	PASS

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

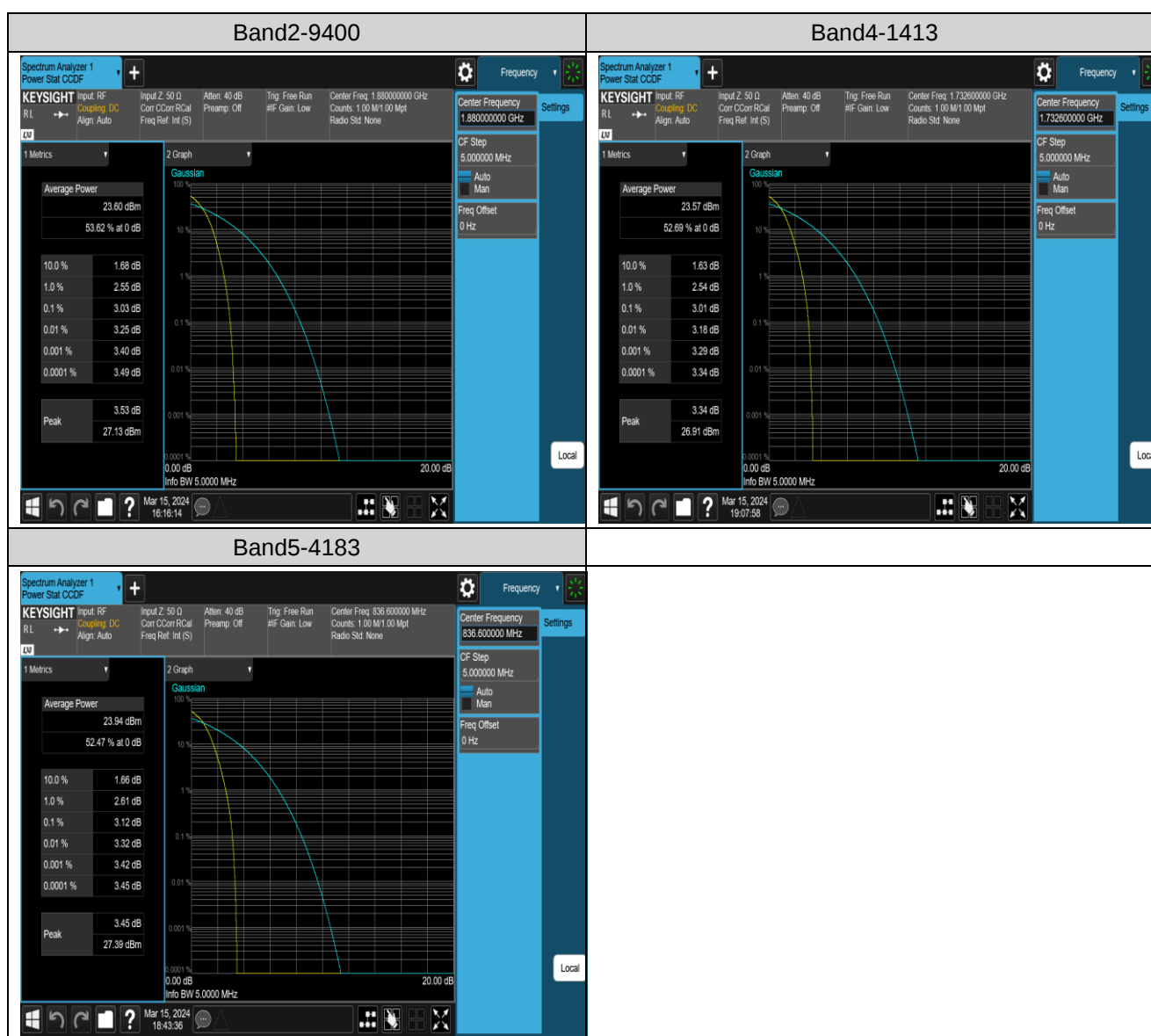
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.03	13	PASS
Band4	1413	3.01	13	PASS
Band5	4183	3.12	13	PASS

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

Test Graphs(WCDMA)

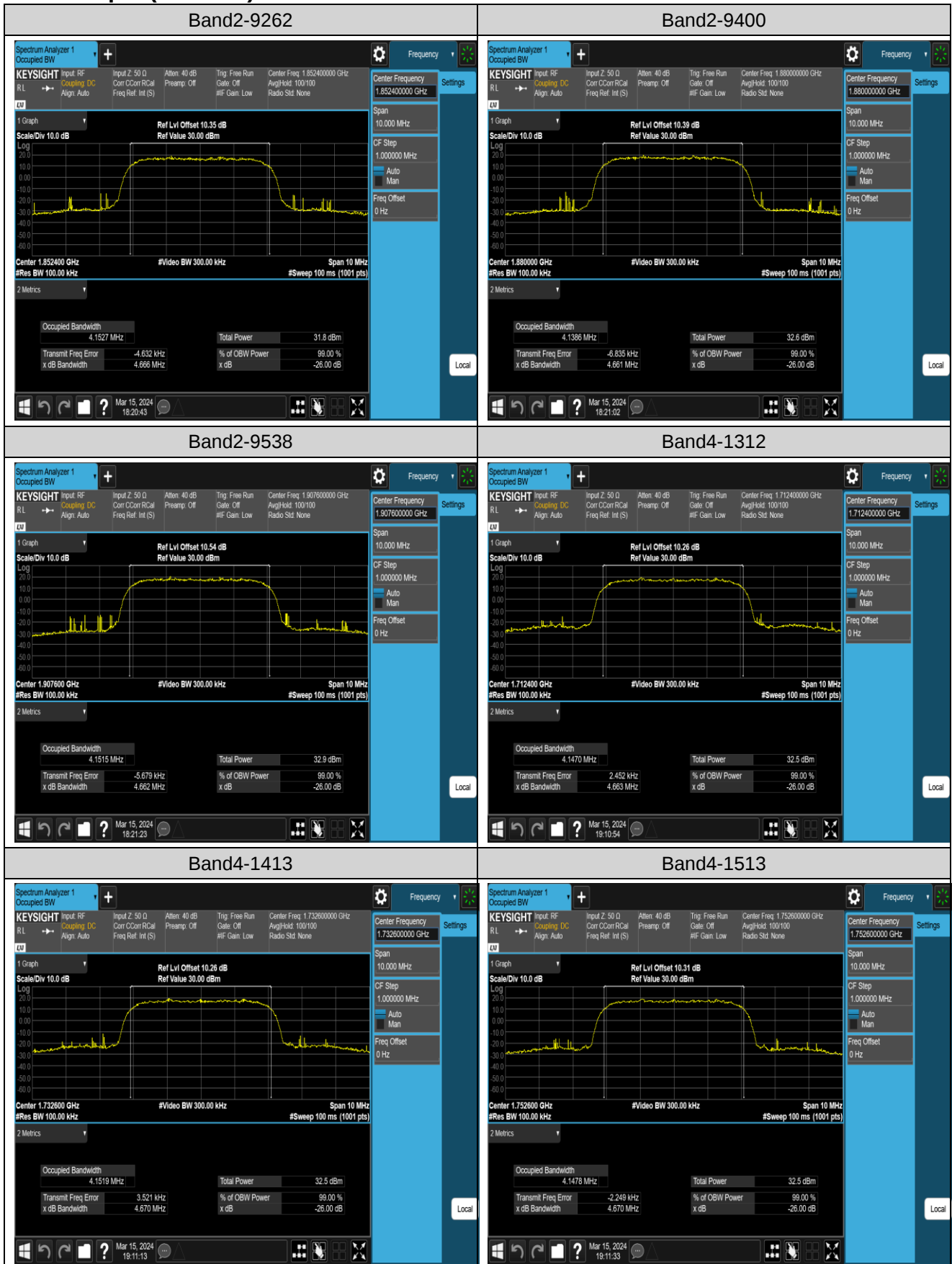


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1527	4.666	---	PASS
Band2	9400	4.1386	4.661	---	PASS
Band2	9538	4.1515	4.662	---	PASS
Band4	1312	4.1470	4.663	---	PASS
Band4	1413	4.1519	4.670	---	PASS
Band4	1513	4.1478	4.670	---	PASS
Band5	4132	4.1460	4.669	---	PASS
Band5	4183	4.1513	4.661	---	PASS
Band5	4233	4.1510	4.671	---	PASS

Test Graphs(WCDMA)



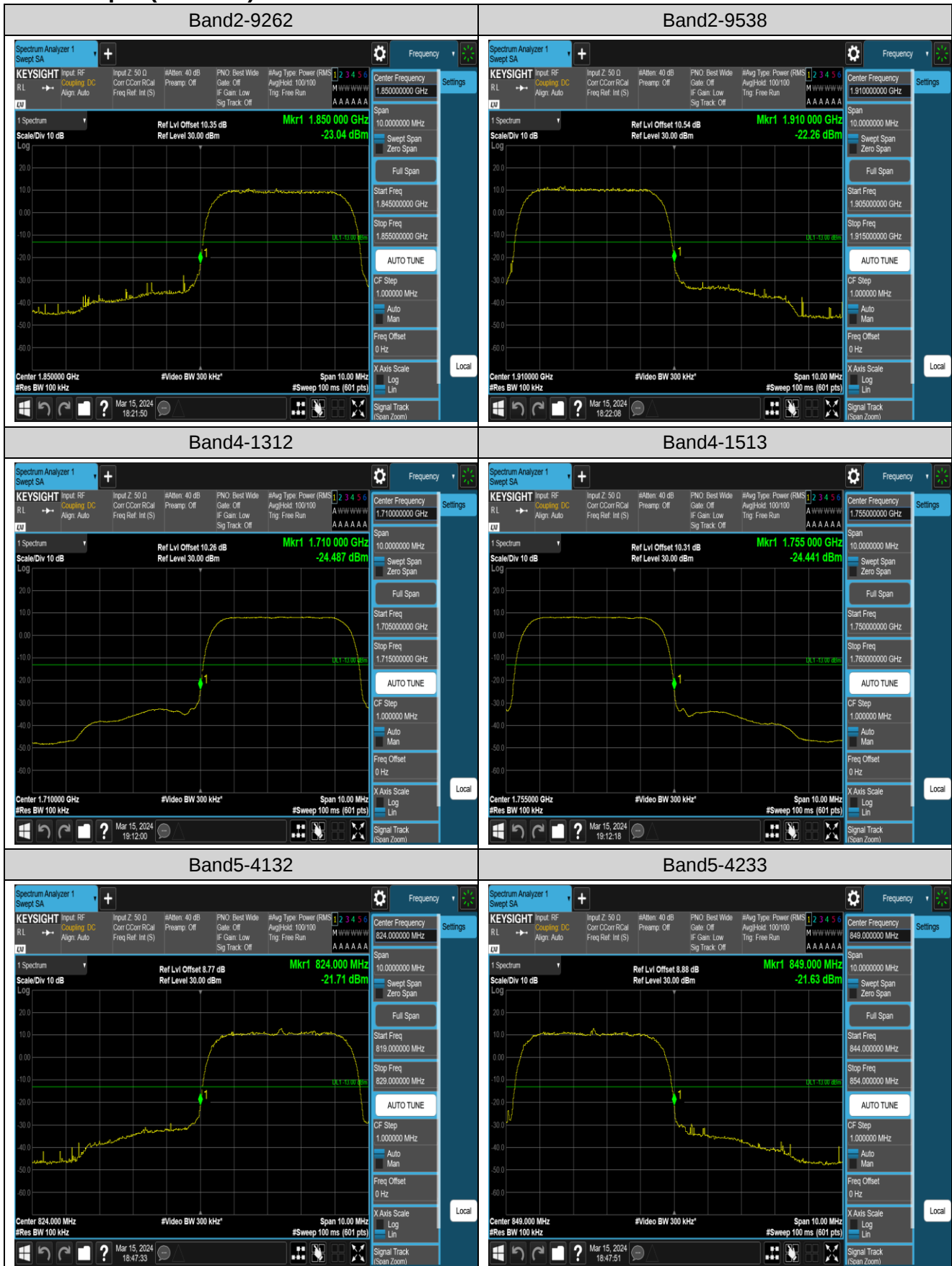


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-23.04	-13	PASS
Band2	9538	1910.00	-22.26	-13	PASS
Band4	1312	1710.00	-24.49	-13	PASS
Band4	1513	1755.00	-24.44	-13	PASS
Band5	4132	824.00	-21.71	-13	PASS
Band5	4233	849.00	-21.63	-13	PASS

Test Graphs(WCDMA)

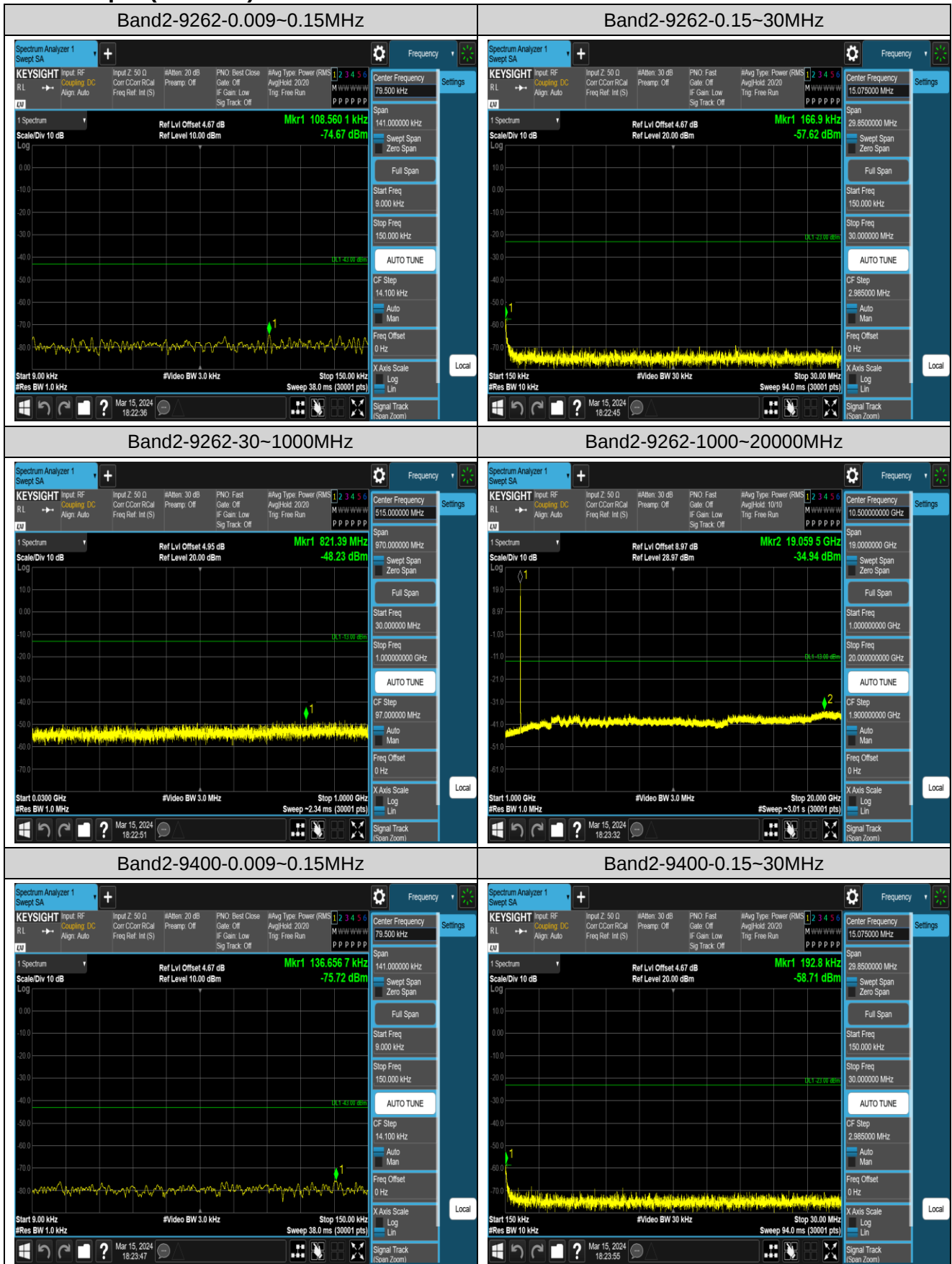


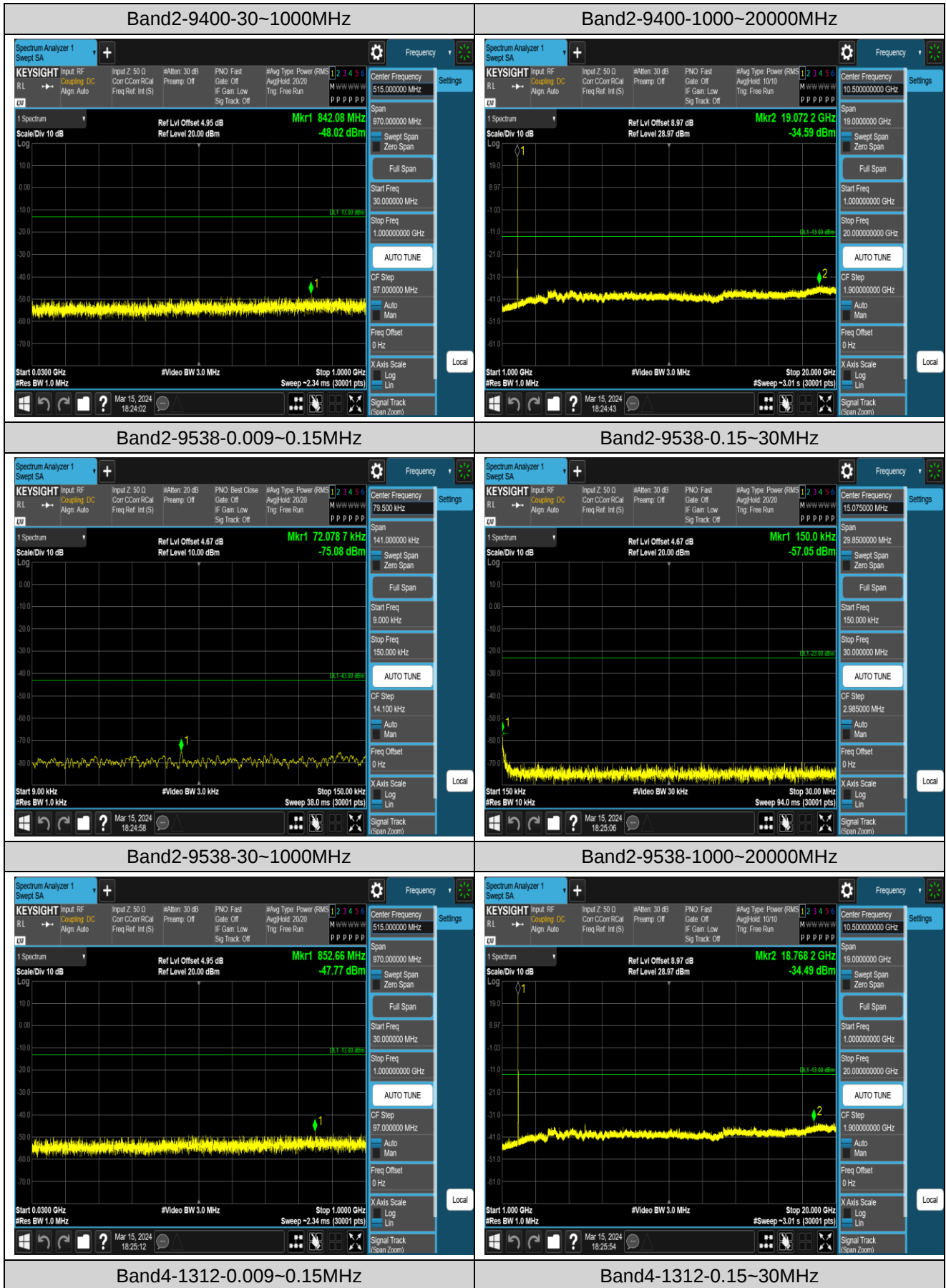
AppendixE:Conducted SpuriousEmission

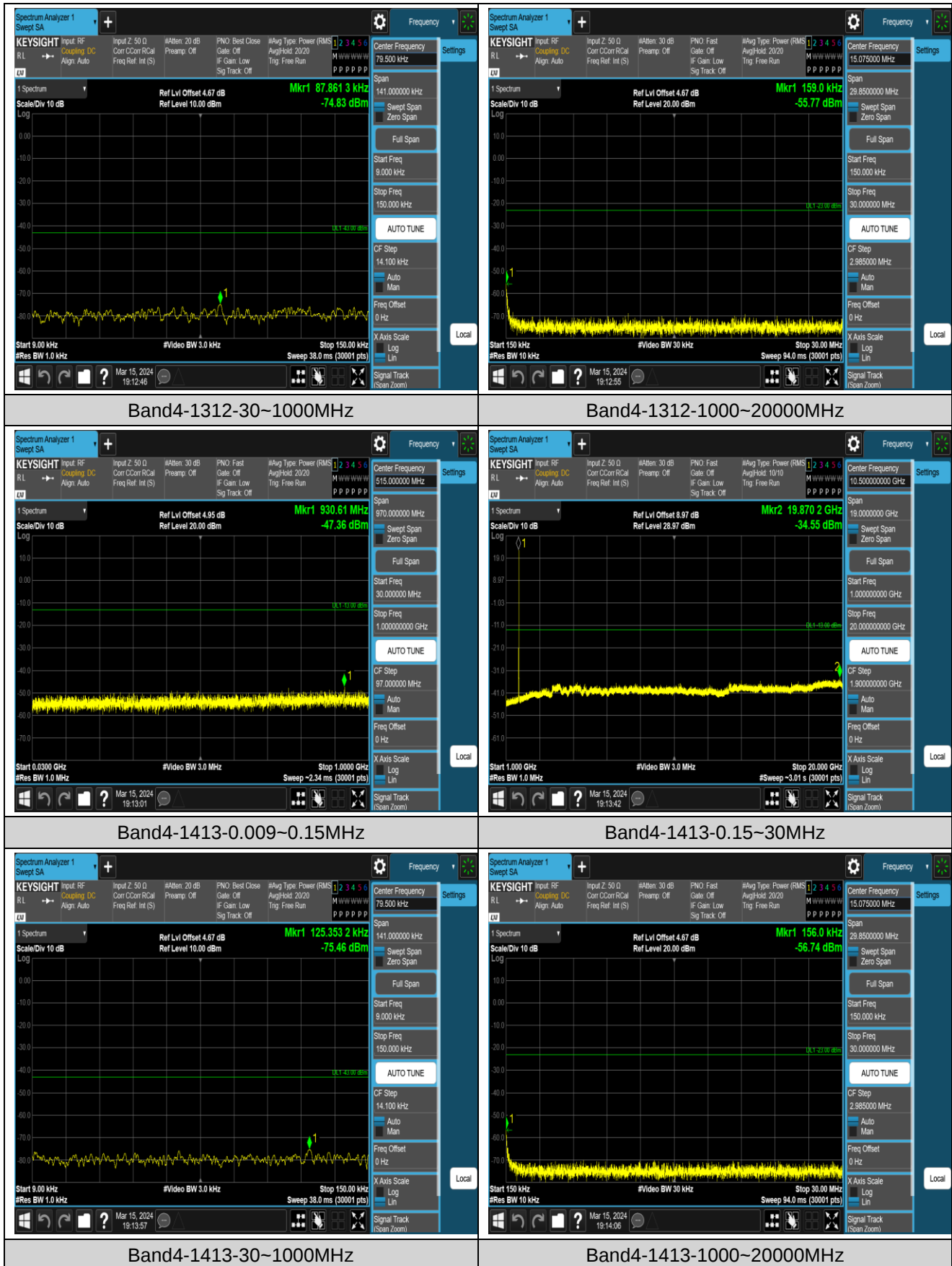
Test Result(WCDMA)

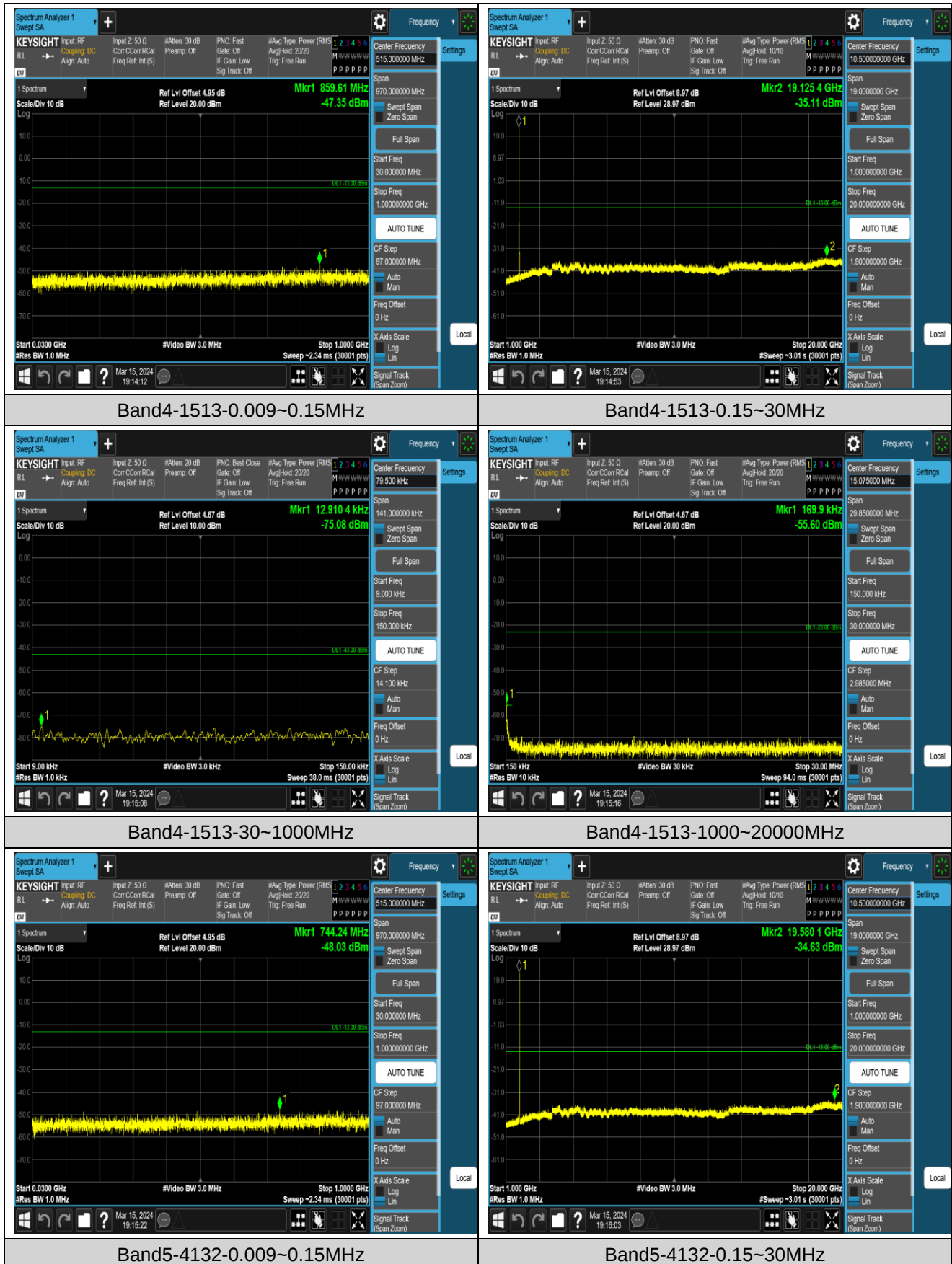
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.11	-74.67	-43	PASS
Band2	9262	0.15~30MHz	0.17	-57.62	-23	PASS
Band2	9262	30~1000MHz	821.39	-48.23	-13	PASS
Band2	9262	1000~20000MHz	19059.5	-34.94	-13	PASS
Band2	9400	0.009~0.15MHz	0.14	-75.72	-43	PASS
Band2	9400	0.15~30MHz	0.19	-58.71	-23	PASS
Band2	9400	30~1000MHz	842.08	-48.02	-13	PASS
Band2	9400	1000~20000MHz	19072.17	-34.59	-13	PASS
Band2	9538	0.009~0.15MHz	0.07	-75.08	-43	PASS
Band2	9538	0.15~30MHz	0.15	-57.05	-23	PASS
Band2	9538	30~1000MHz	852.66	-47.77	-13	PASS
Band2	9538	1000~20000MHz	18768.17	-34.49	-13	PASS
Band4	1312	0.009~0.15MHz	0.09	-74.83	-43	PASS
Band4	1312	0.15~30MHz	0.16	-55.77	-23	PASS
Band4	1312	30~1000MHz	930.61	-47.36	-13	PASS
Band4	1312	1000~20000MHz	19870.17	-34.55	-13	PASS
Band4	1413	0.009~0.15MHz	0.13	-75.46	-43	PASS
Band4	1413	0.15~30MHz	0.16	-56.74	-23	PASS
Band4	1413	30~1000MHz	859.61	-47.35	-13	PASS
Band4	1413	1000~20000MHz	19125.37	-35.11	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-75.08	-43	PASS
Band4	1513	0.15~30MHz	0.17	-55.6	-23	PASS
Band4	1513	30~1000MHz	744.24	-48.03	-13	PASS
Band4	1513	1000~20000MHz	19580.1	-34.63	-13	PASS
Band5	4132	0.009~0.15MHz	0.12	-75.3	-33	PASS
Band5	4132	0.15~30MHz	0.16	-58.63	-13	PASS
Band5	4132	30~1000MHz	495.6	-57.38	-13	PASS
Band5	4132	1000~10000MHz	4734.4	-36.44	-13	PASS
Band5	4183	0.009~0.15MHz	0.13	-74.09	-33	PASS
Band5	4183	0.15~30MHz	0.17	-58	-13	PASS
Band5	4183	30~1000MHz	260.25	-57.65	-13	PASS
Band5	4183	1000~10000MHz	4188.4	-35.9	-13	PASS
Band5	4233	0.009~0.15MHz	0.14	-74.71	-33	PASS
Band5	4233	0.15~30MHz	0.15	-57.08	-13	PASS
Band5	4233	30~1000MHz	583.87	-58.15	-13	PASS
Band5	4233	1000~10000MHz	4238.2	-35.74	-13	PASS

Test Graphs(WCDMA)

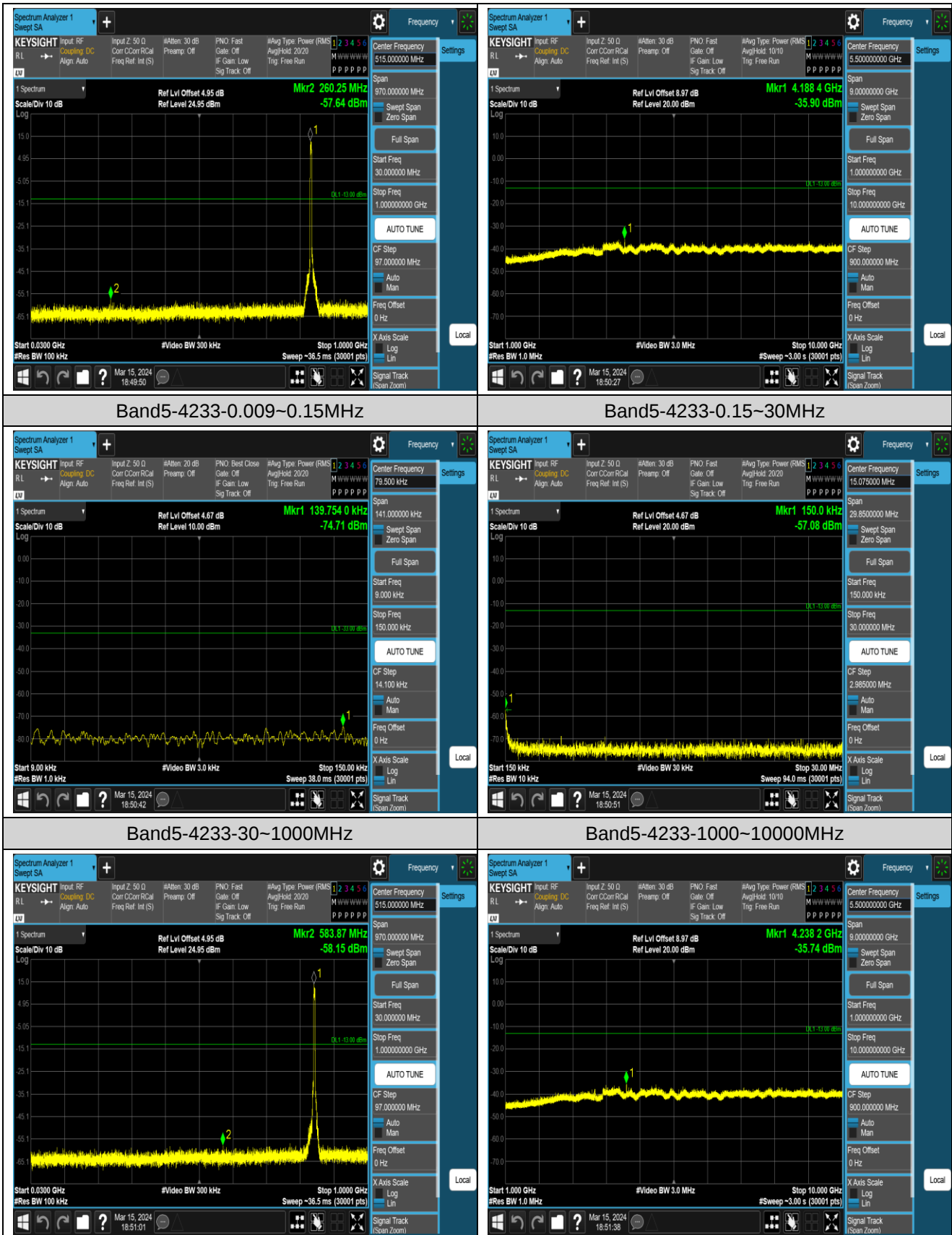












AppendixF:Frequency Stability

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	-1.26	-0.001506	±2.5	Pass
	-20	-0.18	-0.000215		
	-10	0.78	0.000932		
	0	-0.64	-0.000765		
	10	0.16	0.000191		
	20	-1.26	-0.001506		
	30	3.25	0.003885		
	40	1.13	0.001351		
	50	-1.02	-0.001219		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	0.54	0.000645	±2.5	Pass
	3.85	-0.57	-0.000681		
	4.40	-1.48	-0.001769		
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	-5.99	-0.003457	Within authorized band for BAND IV	Pass
	-20	1.62	0.000935		
	-10	-1.54	-0.000889		
	0	4.24	0.002447		
	10	7.91	0.004565		
	20	-4.57	-0.002638		
	30	-12.04	-0.006949		
	40	5.44	0.003140		
	50	1.62	0.000935		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	0.49	0.000283	Within authorized band for BAND IV	Pass
	3.85	-0.96	-0.000554		
	4.40	6.02	0.003475		
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	4.18	0.002223	Within authorized band for BAND II	Pass
	-20	-8.26	-0.004394		
	-10	1.21	0.000644		
	0	1.39	0.000739		
	10	-0.39	-0.000207		
	20	-9.33	-0.004963		
	30	4.84	0.002574		
	40	-0.50	-0.000266		
	50	8.43	0.004484		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	0.20	0.000106	Within authorized band for BAND II	Pass
	3.85	-4.47	-0.002378		
	4.40	1.62	0.000862		
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

