

WCDMA B5(ANT1) TX

WCDMA B2/B4 (ANT0) TX

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	22.66	19.86	33.01	PASS
Band2	TestMode	9262	22.72	19.92	33.01	PASS
Band2	TestMode	9400	22.79	19.99	33.01	PASS
Band2	Voice	9400	22.72	19.92	33.01	PASS
Band2	Voice	9538	22.83	20.03	33.01	PASS
Band2	TestMode	9538	22.87	20.07	33.01	PASS
Band4	TestMode	1312	22.67	19.97	30.00	PASS
Band4	Voice	1312	22.63	19.93	30.00	PASS
Band4	TestMode	1413	23.24	20.54	30.00	PASS
Band4	Voice	1413	23.16	20.46	30.00	PASS
Band4	TestMode	1513	22.77	20.07	30.00	PASS
Band4	Voice	1513	22.73	20.03	30.00	PASS
Band5	TestMode	4132	23.48	15.44	38.45	PASS
Band5	Voice	4132	23.43	15.39	38.45	PASS
Band5	Voice	4183	23.68	15.64	38.45	PASS
Band5	TestMode	4183	23.72	15.68	38.45	PASS
Band5	Voice	4233	23.54	15.5	38.45	PASS
Band5	TestMode	4233	23.57	15.53	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.64	19.84	33.01	PASS
Band2	9262	2	22.44	19.64	33.01	PASS
Band2	9262	3	22.25	19.45	33.01	PASS
Band2	9262	4	22.28	19.48	33.01	PASS
Band2	9400	1	22.35	19.55	33.01	PASS
Band2	9400	2	22.07	19.27	33.01	PASS
Band2	9400	3	21.89	19.09	33.01	PASS
Band2	9400	4	21.94	19.14	33.01	PASS

Band2	9538	1	22.46	19.66	33.01	PASS
Band2	9538	2	22.21	19.41	33.01	PASS
Band2	9538	3	22.08	19.28	33.01	PASS
Band2	9538	4	22.07	19.27	33.01	PASS
Band4	1312	1	22.51	19.81	30.00	PASS
Band4	1312	2	22.67	19.97	30.00	PASS
Band4	1312	3	22.68	19.98	30.00	PASS
Band4	1312	4	22.69	19.99	30.00	PASS
Band4	1413	1	23.26	20.56	30.00	PASS
Band4	1413	2	23.28	20.58	30.00	PASS
Band4	1413	3	23.21	20.51	30.00	PASS
Band4	1413	4	23.24	20.54	30.00	PASS
Band4	1513	1	22.24	19.54	30.00	PASS
Band4	1513	2	22.42	19.72	30.00	PASS
Band4	1513	3	22.43	19.73	30.00	PASS
Band4	1513	4	22.48	19.78	30.00	PASS
Band5	4132	1	22.56	14.52	38.5	PASS
Band5	4132	2	22.36	14.32	38.5	PASS
Band5	4132	3	21.72	13.68	38.5	PASS
Band5	4132	4	21.75	13.71	38.5	PASS
Band5	4183	1	22.53	14.49	38.5	PASS
Band5	4183	2	22.31	14.27	38.5	PASS
Band5	4183	3	21.91	13.87	38.5	PASS
Band5	4183	4	21.95	13.91	38.5	PASS
Band5	4233	1	22.77	14.73	38.5	PASS
Band5	4233	2	22.64	14.6	38.5	PASS
Band5	4233	3	22.02	13.98	38.5	PASS
Band5	4233	4	22.24	14.2	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	20.40	17.6	33.01	PASS
Band2	9262	2	21.13	18.33	33.01	PASS
Band2	9262	3	20.86	18.06	33.01	PASS
Band2	9262	4	21.19	18.39	33.01	PASS
Band2	9262	5	22.88	20.08	33.01	PASS
Band2	9400	1	20.57	17.77	33.01	PASS
Band2	9400	2	21.08	18.28	33.01	PASS
Band2	9400	3	20.82	18.02	33.01	PASS
Band2	9400	4	21.14	18.34	33.01	PASS

Band2	9400	5	22.47	19.67	33.01	PASS
Band2	9538	1	20.52	17.72	33.01	PASS
Band2	9538	2	20.95	18.15	33.01	PASS
Band2	9538	3	20.73	17.93	33.01	PASS
Band2	9538	4	21.04	18.24	33.01	PASS
Band2	9538	5	22.65	19.85	33.01	PASS
Band4	1312	1	22.54	19.84	30.00	PASS
Band4	1312	2	22.65	19.95	30.00	PASS
Band4	1312	3	22.42	19.72	30.00	PASS
Band4	1312	4	22.71	20.01	30.00	PASS
Band4	1312	5	22.86	20.16	30.00	PASS
Band4	1413	1	23.25	20.55	30.00	PASS
Band4	1413	2	23.23	20.53	30.00	PASS
Band4	1413	3	23.13	20.43	30.00	PASS
Band4	1413	4	23.29	20.59	30.00	PASS
Band4	1413	5	23.40	20.7	30.00	PASS
Band4	1513	1	22.42	19.72	30.00	PASS
Band4	1513	2	22.59	19.89	30.00	PASS
Band4	1513	3	22.34	19.64	30.00	PASS
Band4	1513	4	22.66	19.96	30.00	PASS
Band4	1513	5	22.56	19.86	30.00	PASS
Band5	4132	1	20.48	12.44	38.5	PASS
Band5	4132	2	20.80	12.76	38.5	PASS
Band5	4132	3	20.60	12.56	38.5	PASS
Band5	4132	4	20.35	12.31	38.5	PASS
Band5	4132	5	22.74	14.7	38.5	PASS
Band5	4183	1	20.78	12.74	38.5	PASS
Band5	4183	2	20.91	12.87	38.5	PASS
Band5	4183	3	20.66	12.62	38.5	PASS
Band5	4183	4	20.42	12.38	38.5	PASS
Band5	4183	5	22.97	14.93	38.5	PASS
Band5	4233	1	20.96	12.92	38.5	PASS
Band5	4233	2	21.07	13.03	38.5	PASS
Band5	4233	3	20.82	12.78	38.5	PASS
Band5	4233	4	20.65	12.61	38.5	PASS
Band5	4233	5	23.00	14.96	38.5	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band2 & 4)

ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)

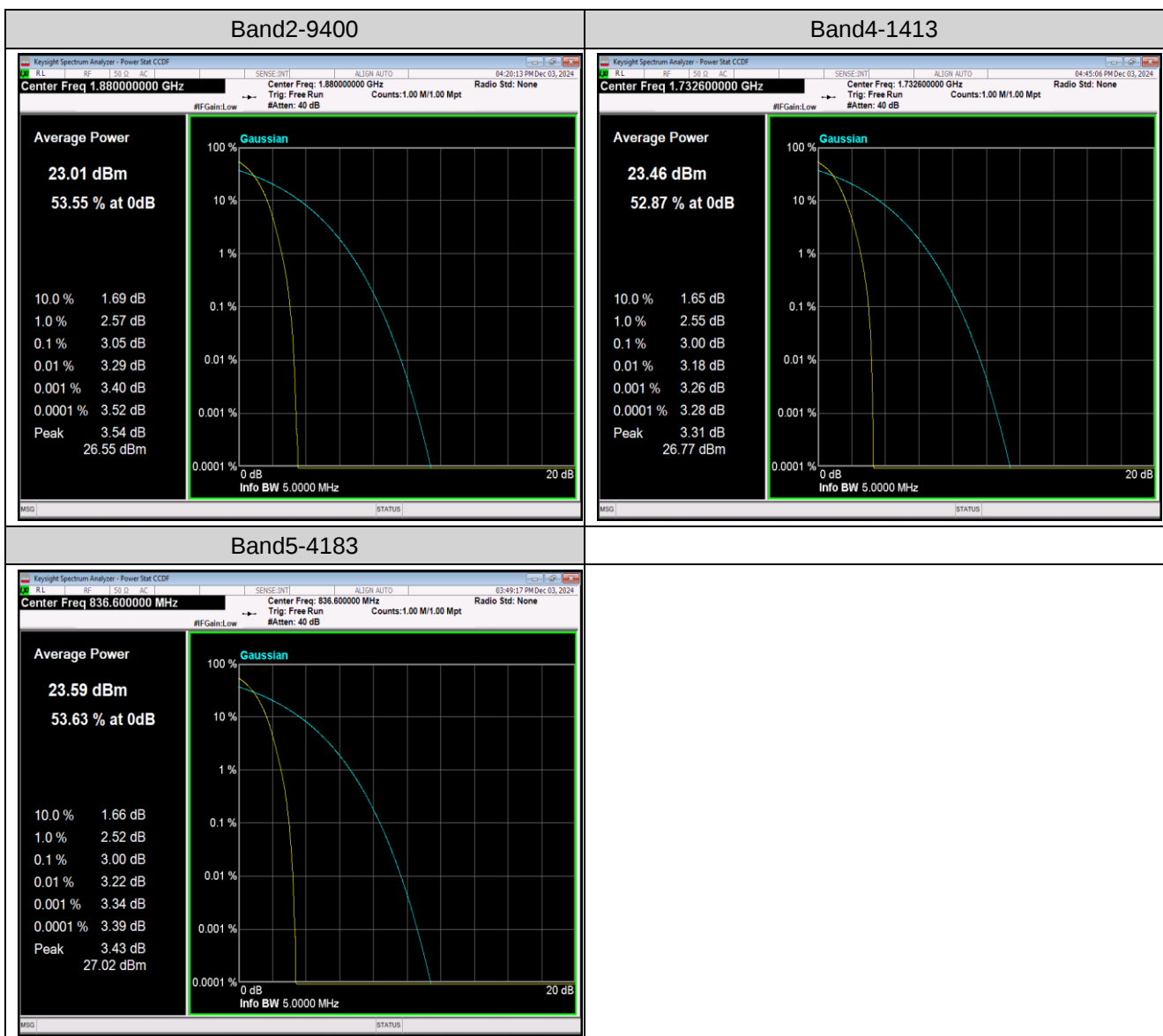
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.05	13	PASS
Band4	1413	3	13	PASS
Band5	4183	3	13	PASS

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

Test Graphs(WCDMA)

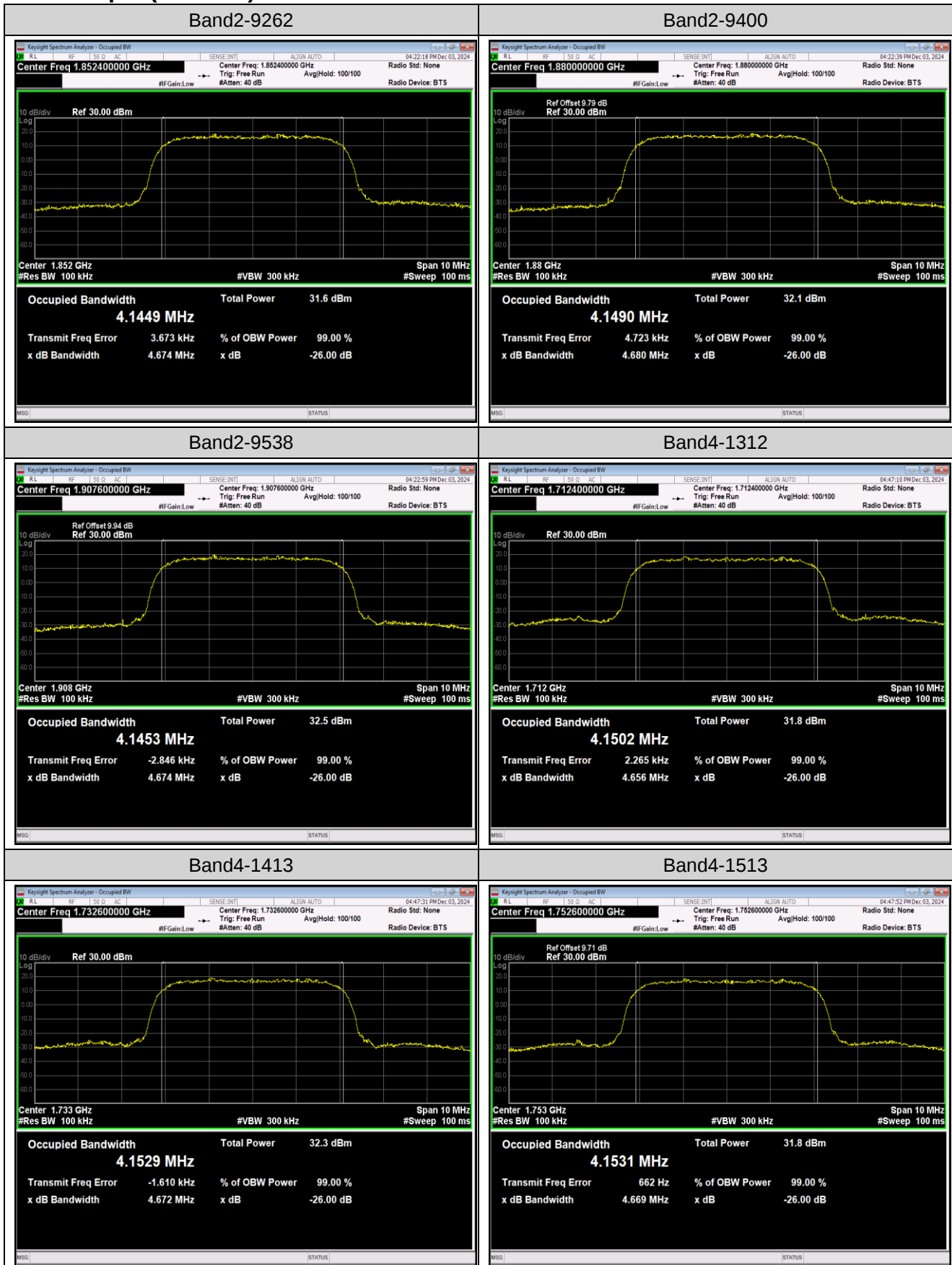


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1449	4.674	---	PASS
Band2	9400	4.1490	4.680	---	PASS
Band2	9538	4.1453	4.674	---	PASS
Band4	1312	4.1502	4.656	---	PASS
Band4	1413	4.1529	4.672	---	PASS
Band4	1513	4.1531	4.669	---	PASS
Band5	4132	4.1460	4.674	---	PASS
Band5	4183	4.1406	4.670	---	PASS
Band5	4233	4.1490	4.665	---	PASS

Test Graphs(WCDMA)



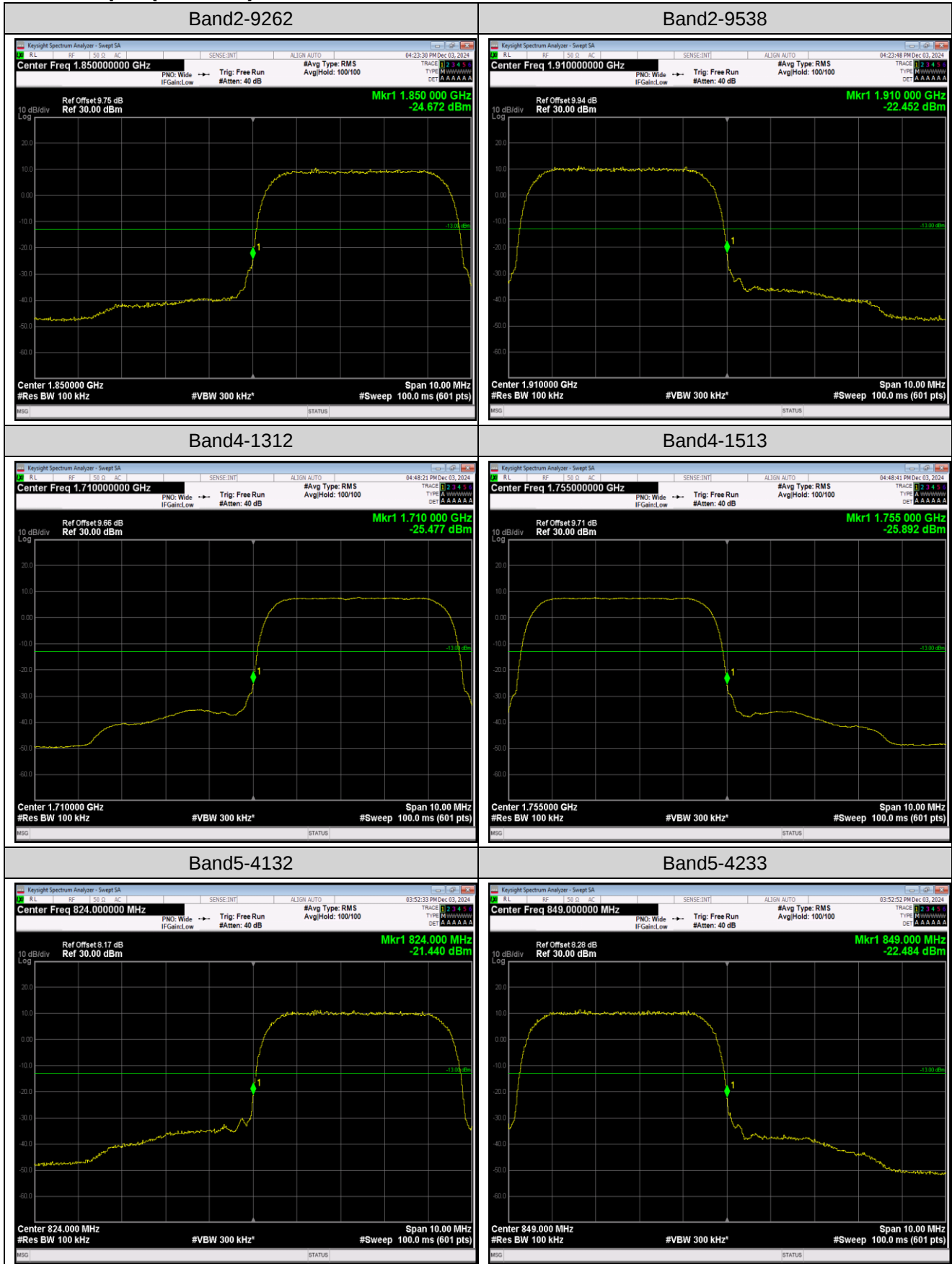


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-24.67	-13	PASS
Band2	9538	1910.00	-22.45	-13	PASS
Band4	1312	1710.00	-25.48	-13	PASS
Band4	1513	1755.00	-25.89	-13	PASS
Band5	4132	824.00	-21.44	-13	PASS
Band5	4233	849.00	-22.48	-13	PASS

Test Graphs(WCDMA)



JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

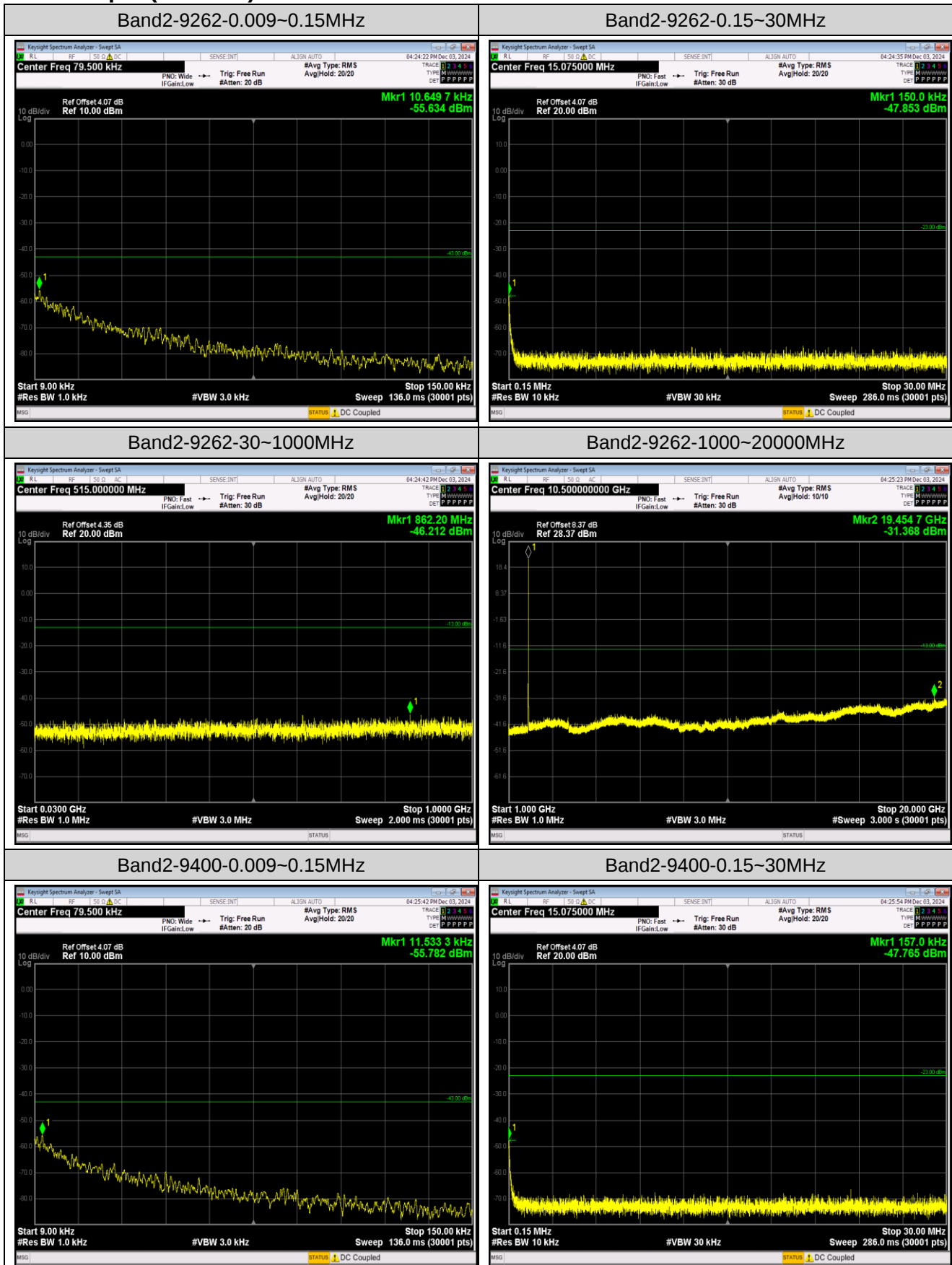
Project No.: JYTSZR2411084

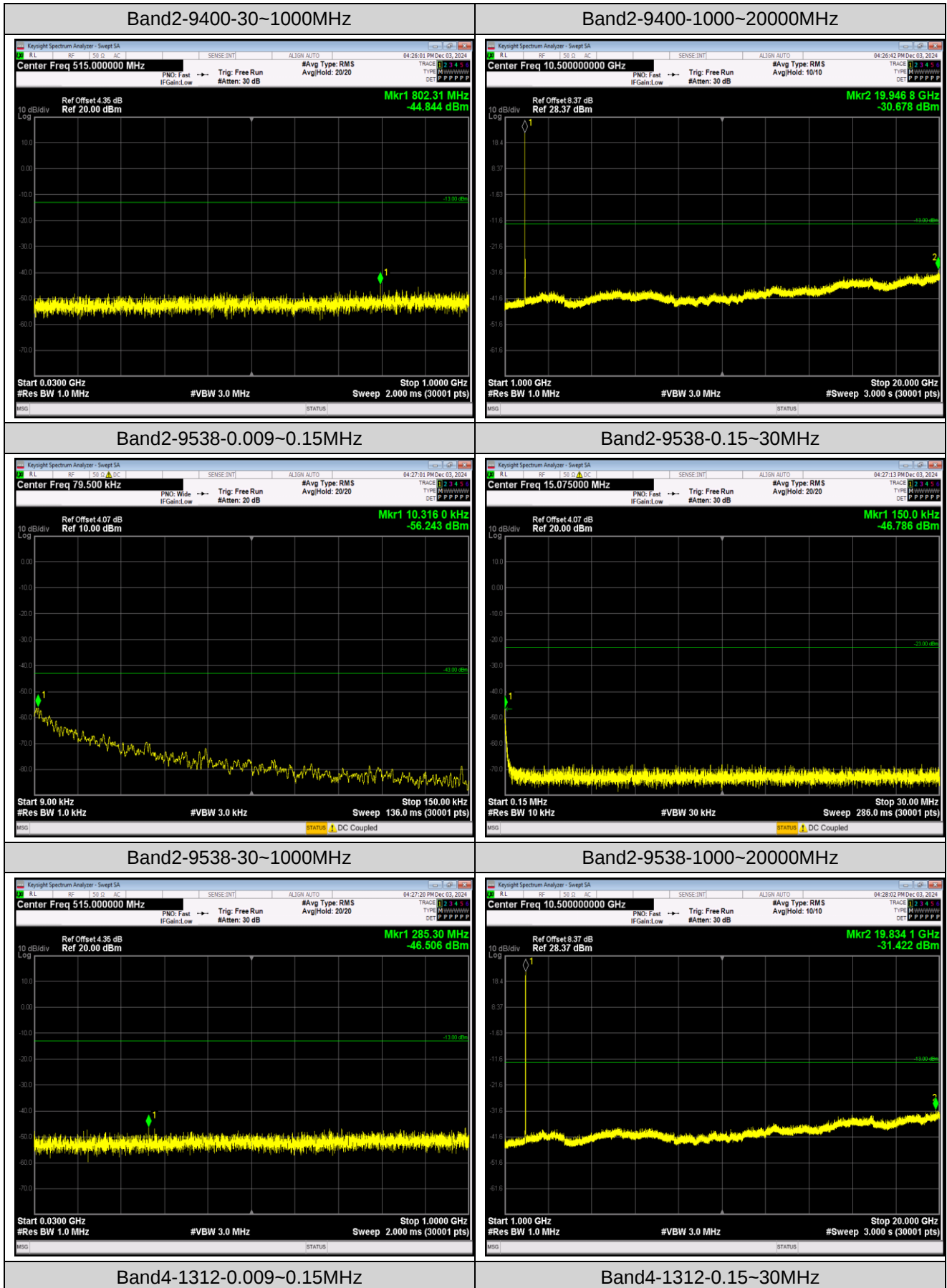
AppendixE:Conducted SpuriousEmission

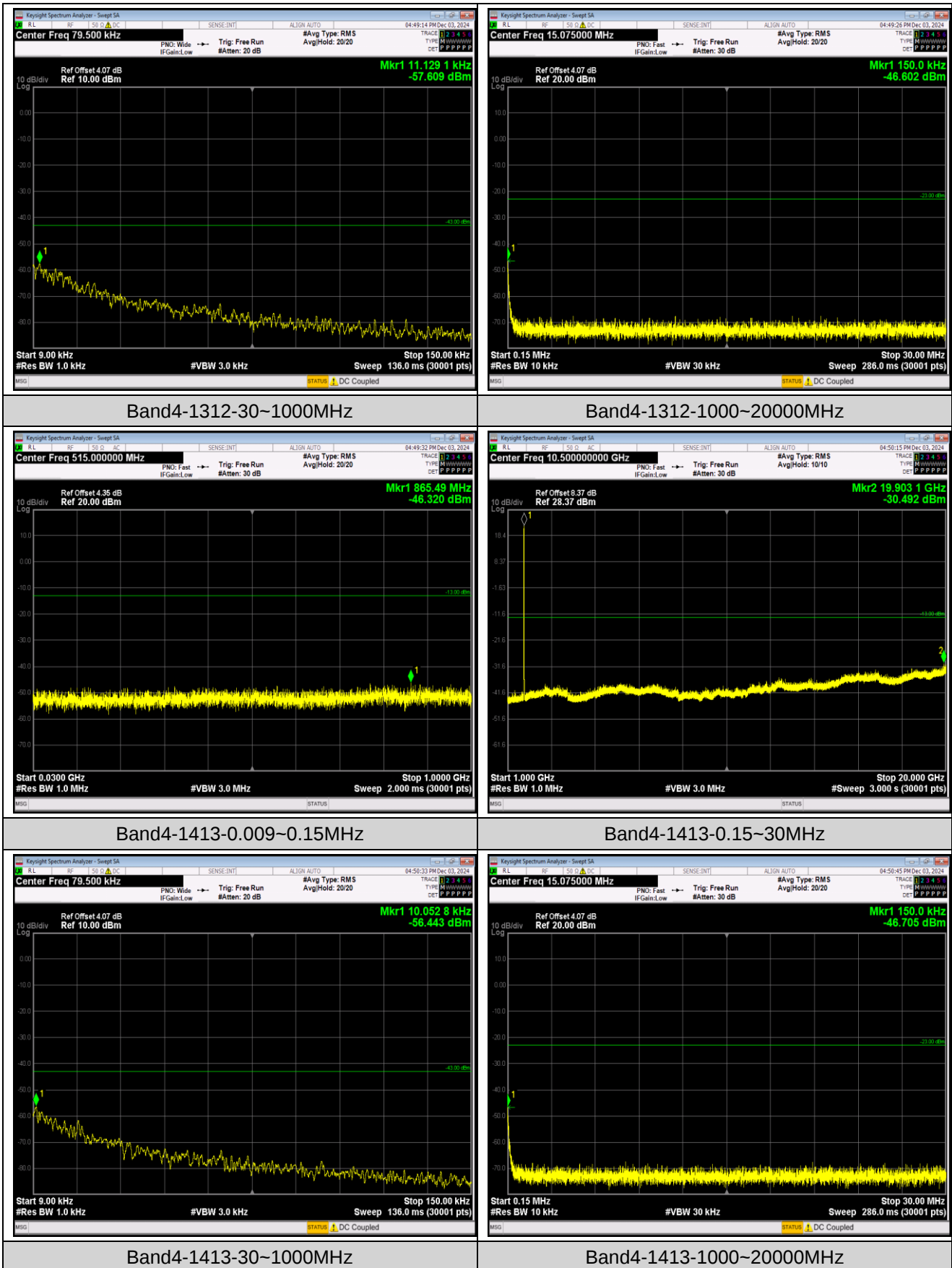
Test Result(WCDMA)

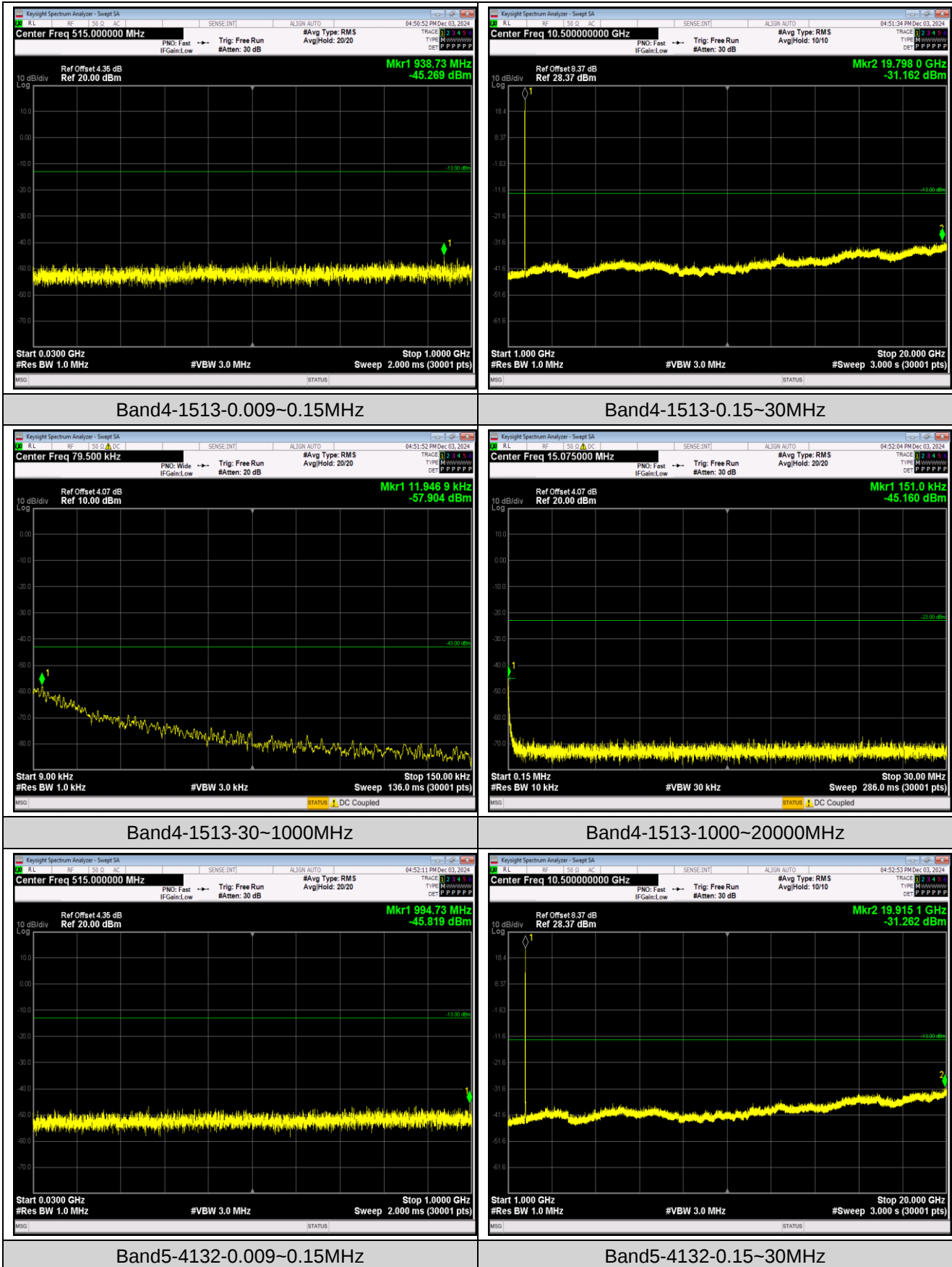
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-55.63	-43	PASS
Band2	9262	0.15~30MHz	0.15	-47.85	-23	PASS
Band2	9262	30~1000MHz	862.2	-46.21	-13	PASS
Band2	9262	1000~20000MHz	19454.7	-31.37	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-55.78	-43	PASS
Band2	9400	0.15~30MHz	0.16	-47.77	-23	PASS
Band2	9400	30~1000MHz	802.31	-44.84	-13	PASS
Band2	9400	1000~20000MHz	19946.8	-30.68	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-56.24	-43	PASS
Band2	9538	0.15~30MHz	0.15	-46.79	-23	PASS
Band2	9538	30~1000MHz	285.3	-46.51	-13	PASS
Band2	9538	1000~20000MHz	19834.07	-31.42	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-57.61	-43	PASS
Band4	1312	0.15~30MHz	0.15	-46.6	-23	PASS
Band4	1312	30~1000MHz	865.49	-46.32	-13	PASS
Band4	1312	1000~20000MHz	19903.1	-30.49	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-56.44	-43	PASS
Band4	1413	0.15~30MHz	0.15	-46.71	-23	PASS
Band4	1413	30~1000MHz	938.73	-45.27	-13	PASS
Band4	1413	1000~20000MHz	19797.97	-31.16	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-57.9	-43	PASS
Band4	1513	0.15~30MHz	0.15	-45.16	-23	PASS
Band4	1513	30~1000MHz	994.73	-45.82	-13	PASS
Band4	1513	1000~20000MHz	19915.13	-31.26	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-54.93	-33	PASS
Band5	4132	0.15~30MHz	0.15	-47.2	-13	PASS
Band5	4132	30~1000MHz	934.33	-55.55	-13	PASS
Band5	4132	1000~10000MHz	5946.1	-37.24	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-57.12	-33	PASS
Band5	4183	0.15~30MHz	0.16	-47.65	-13	PASS
Band5	4183	30~1000MHz	504.1	-54.96	-13	PASS
Band5	4183	1000~10000MHz	5927.5	-37.3	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-56.26	-33	PASS
Band5	4233	0.15~30MHz	0.15	-46.25	-13	PASS
Band5	4233	30~1000MHz	529.78	-55.08	-13	PASS
Band5	4233	1000~10000MHz	6948.4	-37.35	-13	PASS

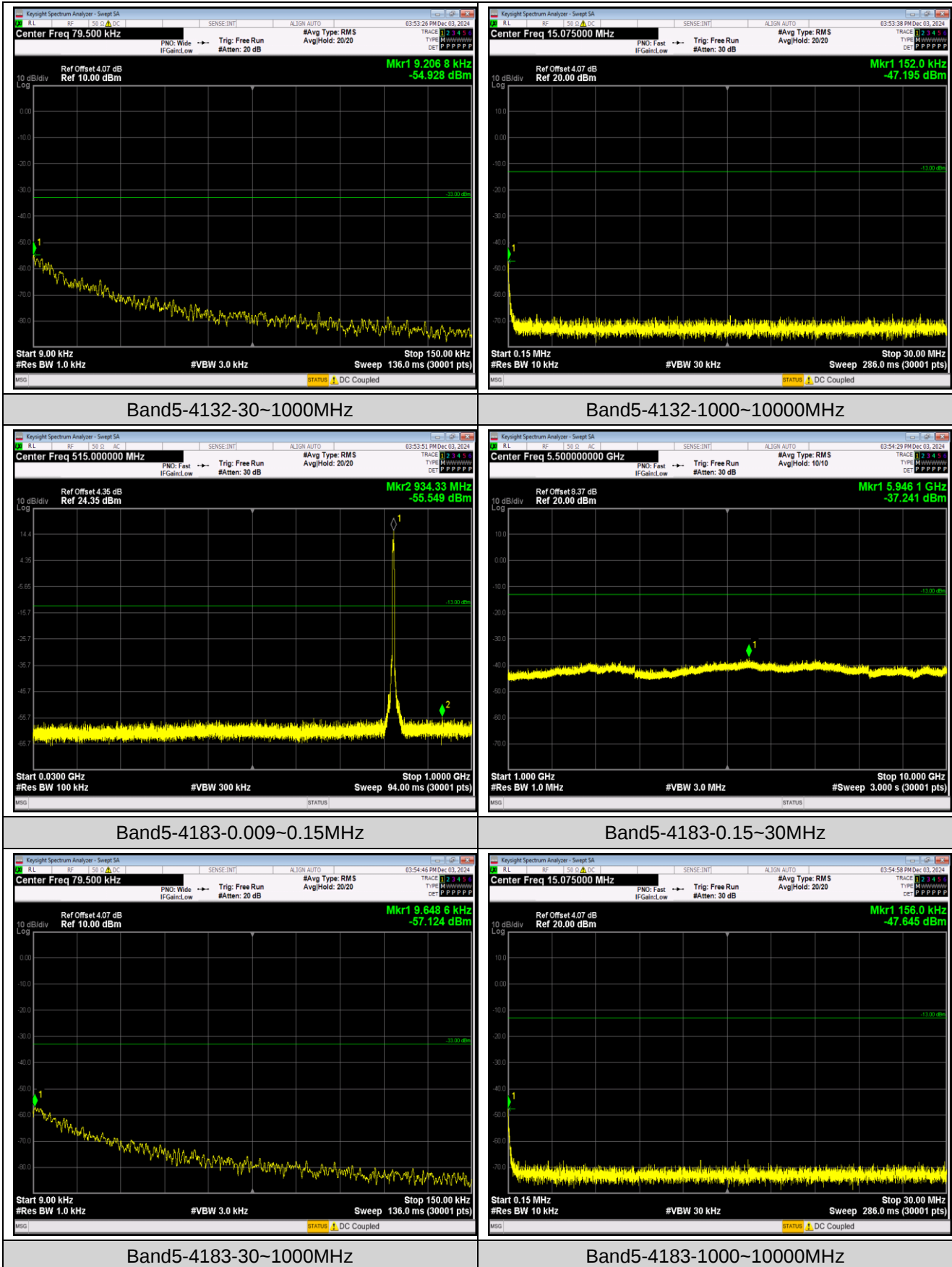
Test Graphs(WCDMA)

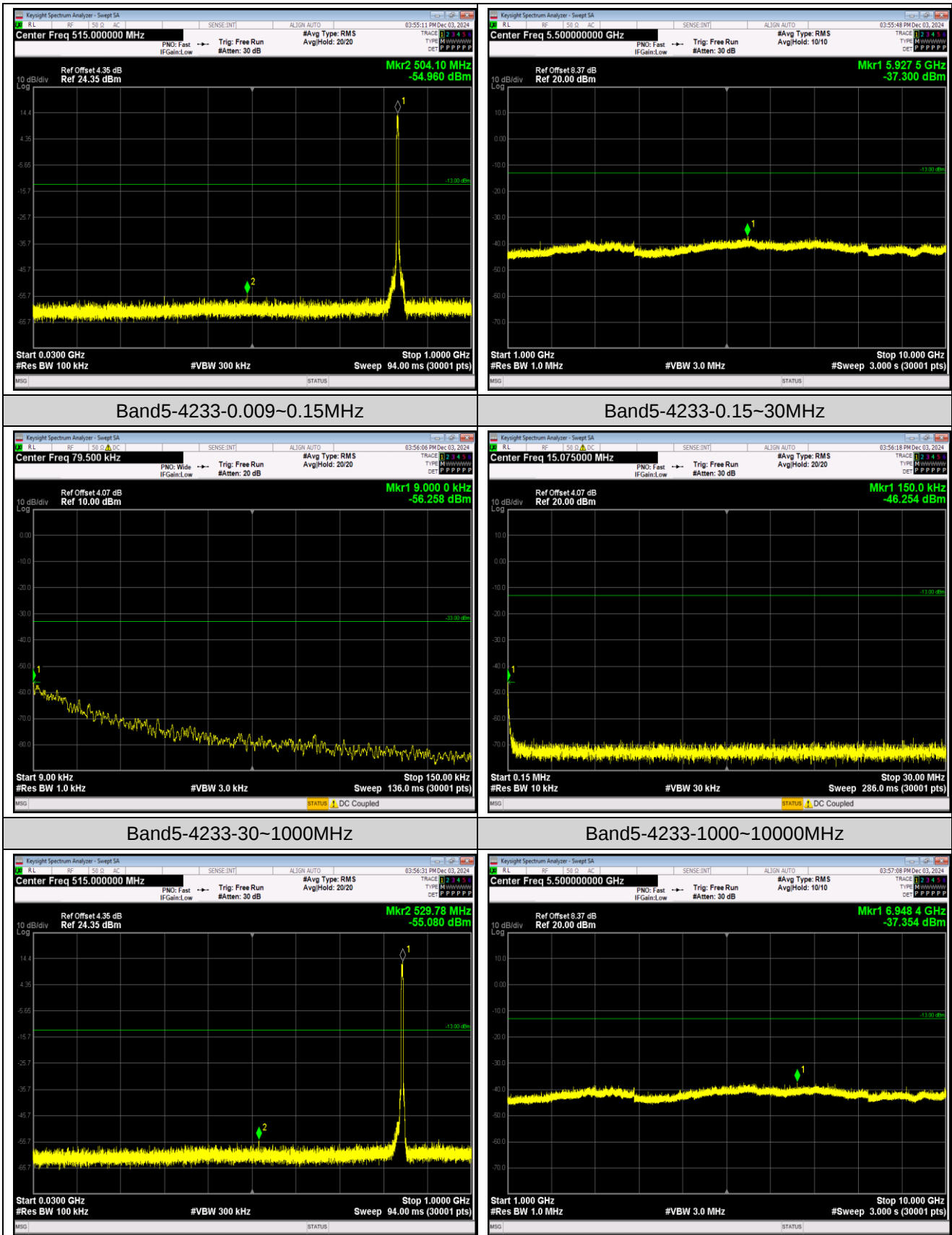












AppendixF:Frequency Stability

Test Result

Reference Frequency: WCDMA BAND V 12.2k RMC Middle channel=4183 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-0.14	-0.000167	±2.5	Pass
	-20	0.49	0.000586		
	-10	0.13	0.000155		
	0	1.49	0.001781		
	10	1.57	0.001877		
	20	-0.55	-0.000657		
	30	0.25	0.000299		
	40	-2.40	-0.002869		
	50	-3.15	-0.003765		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	0.95	0.001136	±2.5	Pass
	3.85	-1.53	-0.001829		
	4.40	-2.06	-0.002462		
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	-3.96	-0.002286	Within authorized band for BAND IV	Pass
	-20	0.67	0.000387		
	-10	-8.56	-0.004941		
	0	-4.09	-0.002361		
	10	0.67	0.000387		
	20	-3.13	-0.001807		
	30	8.71	0.005027		
	40	0.96	0.000554		
	50	1.61	0.000929		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-7.50	-0.004329	Within authorized band for BAND IV	Pass
	3.85	0.99	0.000571		
	4.40	-3.29	-0.001899		
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	-1.65	-0.000878	Within authorized band for BAND II	Pass
	-20	6.59	0.003505		
	-10	8.93	0.004750		
	0	-0.57	-0.000303		
	10	3.55	0.001888		
	20	-8.88	-0.004723		
	30	-2.52	-0.001340		
	40	-2.85	-0.001516		
	50	-1.78	-0.000947		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	7.00	0.003723	Within authorized band for BAND II	Pass
	3.85	1.32	0.000702		
	4.40	-2.25	-0.001197		
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

