

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	22.04	22.24	33.01	PASS
Band2	TestMode	9262	22.08	22.28	33.01	PASS
Band2	TestMode	9400	22.27	22.47	33.01	PASS
Band2	Voice	9400	22.27	22.47	33.01	PASS
Band2	TestMode	9538	22.22	22.42	33.01	PASS
Band2	Voice	9538	22.18	22.38	33.01	PASS
Band4	Voice	1312	22.39	21.72	30.00	PASS
Band4	TestMode	1312	22.46	21.79	30.00	PASS
Band4	Voice	1413	22.59	21.92	30.00	PASS
Band4	TestMode	1413	22.62	21.95	30.00	PASS
Band4	TestMode	1513	22.56	21.89	30.00	PASS
Band4	Voice	1513	22.50	21.83	30.00	PASS
Band5	Voice	4132	22.70	19.27	38.45	PASS
Band5	TestMode	4132	22.73	19.3	38.45	PASS
Band5	TestMode	4183	22.84	19.41	38.45	PASS
Band5	Voice	4183	22.81	19.38	38.45	PASS
Band5	Voice	4233	22.73	19.3	38.45	PASS
Band5	TestMode	4233	22.78	19.35	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.40	21.6	33.01	PASS
Band2	9262	2	21.13	21.33	33.01	PASS
Band2	9262	3	20.96	21.16	33.01	PASS
Band2	9262	4	20.77	20.97	33.01	PASS
Band2	9400	1	22.21	22.41	33.01	PASS
Band2	9400	2	22.12	22.32	33.01	PASS
Band2	9400	3	21.94	22.14	33.01	PASS
Band2	9400	4	21.76	21.96	33.01	PASS
Band2	9538	1	22.20	22.4	33.01	PASS
Band2	9538	2	22.00	22.2	33.01	PASS
Band2	9538	3	21.77	21.97	33.01	PASS
Band2	9538	4	21.58	21.78	33.01	PASS

Band4	1312	1	20.29	19.62	30.00	PASS
Band4	1312	2	21.08	20.41	30.00	PASS
Band4	1312	3	21.09	20.42	30.00	PASS
Band4	1312	4	21.10	20.43	30.00	PASS
Band4	1413	1	19.93	19.26	30.00	PASS
Band4	1413	2	20.46	19.79	30.00	PASS
Band4	1413	3	20.47	19.8	30.00	PASS
Band4	1413	4	20.63	19.96	30.00	PASS
Band4	1513	1	20.33	19.66	30.00	PASS
Band4	1513	2	20.86	20.19	30.00	PASS
Band4	1513	3	20.87	20.2	30.00	PASS
Band4	1513	4	21.04	20.37	30.00	PASS
Band5	4132	1	21.64	18.21	38.5	PASS
Band5	4132	2	21.45	18.02	38.5	PASS
Band5	4132	3	20.95	17.52	38.5	PASS
Band5	4132	4	20.98	17.55	38.5	PASS
Band5	4183	1	22.02	18.59	38.5	PASS
Band5	4183	2	21.80	18.37	38.5	PASS
Band5	4183	3	21.34	17.91	38.5	PASS
Band5	4183	4	21.32	17.89	38.5	PASS
Band5	4233	1	21.67	18.24	38.5	PASS
Band5	4233	2	21.43	18	38.5	PASS
Band5	4233	3	21.15	17.72	38.5	PASS
Band5	4233	4	21.07	17.64	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.38	19.58	33.01	PASS
Band2	9262	2	19.98	20.18	33.01	PASS
Band2	9262	3	19.70	19.9	33.01	PASS
Band2	9262	4	20.06	20.26	33.01	PASS
Band2	9262	5	21.53	21.73	33.01	PASS
Band2	9400	1	20.47	20.67	33.01	PASS
Band2	9400	2	21.01	21.21	33.01	PASS
Band2	9400	3	20.51	20.71	33.01	PASS
Band2	9400	4	21.07	21.27	33.01	PASS
Band2	9400	5	22.44	22.64	33.01	PASS
Band2	9538	1	20.34	20.54	33.01	PASS
Band2	9538	2	20.59	20.79	33.01	PASS
Band2	9538	3	20.54	20.74	33.01	PASS

Band2	9538	4	20.65	20.85	33.01	PASS
Band2	9538	5	22.44	22.64	33.01	PASS
Band4	1312	1	19.61	18.94	30.00	PASS
Band4	1312	2	19.51	18.84	30.00	PASS
Band4	1312	3	19.71	19.04	30.00	PASS
Band4	1312	4	19.62	18.95	30.00	PASS
Band4	1312	5	21.38	20.71	30.00	PASS
Band4	1413	1	19.19	18.52	30.00	PASS
Band4	1413	2	18.89	18.22	30.00	PASS
Band4	1413	3	19.11	18.44	30.00	PASS
Band4	1413	4	19.02	18.35	30.00	PASS
Band4	1413	5	20.65	19.98	30.00	PASS
Band4	1513	1	19.56	18.89	30.00	PASS
Band4	1513	2	19.37	18.7	30.00	PASS
Band4	1513	3	19.56	18.89	30.00	PASS
Band4	1513	4	19.48	18.81	30.00	PASS
Band4	1513	5	21.00	20.33	30.00	PASS
Band5	4132	1	20.04	16.61	38.5	PASS
Band5	4132	2	20.43	17	38.5	PASS
Band5	4132	3	20.09	16.66	38.5	PASS
Band5	4132	4	20.24	16.81	38.5	PASS
Band5	4132	5	21.46	18.03	38.5	PASS
Band5	4183	1	20.64	17.21	38.5	PASS
Band5	4183	2	20.76	17.33	38.5	PASS
Band5	4183	3	20.52	17.09	38.5	PASS
Band5	4183	4	20.57	17.14	38.5	PASS
Band5	4183	5	21.77	18.34	38.5	PASS
Band5	4233	1	20.45	17.02	38.5	PASS
Band5	4233	2	20.58	17.15	38.5	PASS
Band5	4233	3	20.32	16.89	38.5	PASS
Band5	4233	4	20.25	16.82	38.5	PASS
Band5	4233	5	21.50	18.07	38.5	PASS

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

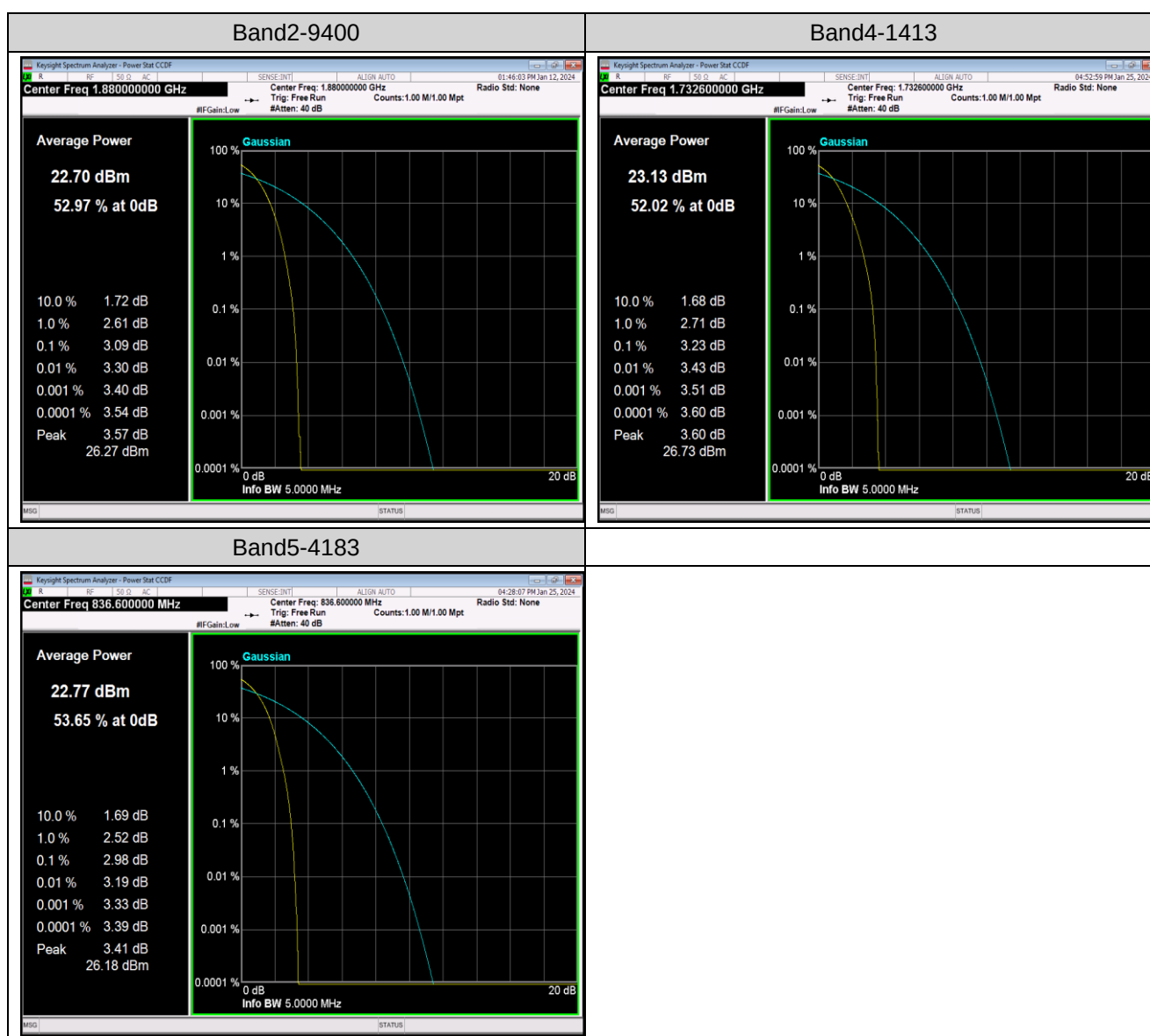
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.09	13	PASS
Band4	1413	3.23	13	PASS
Band5	4183	2.98	13	PASS

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

Test Graphs(WCDMA)

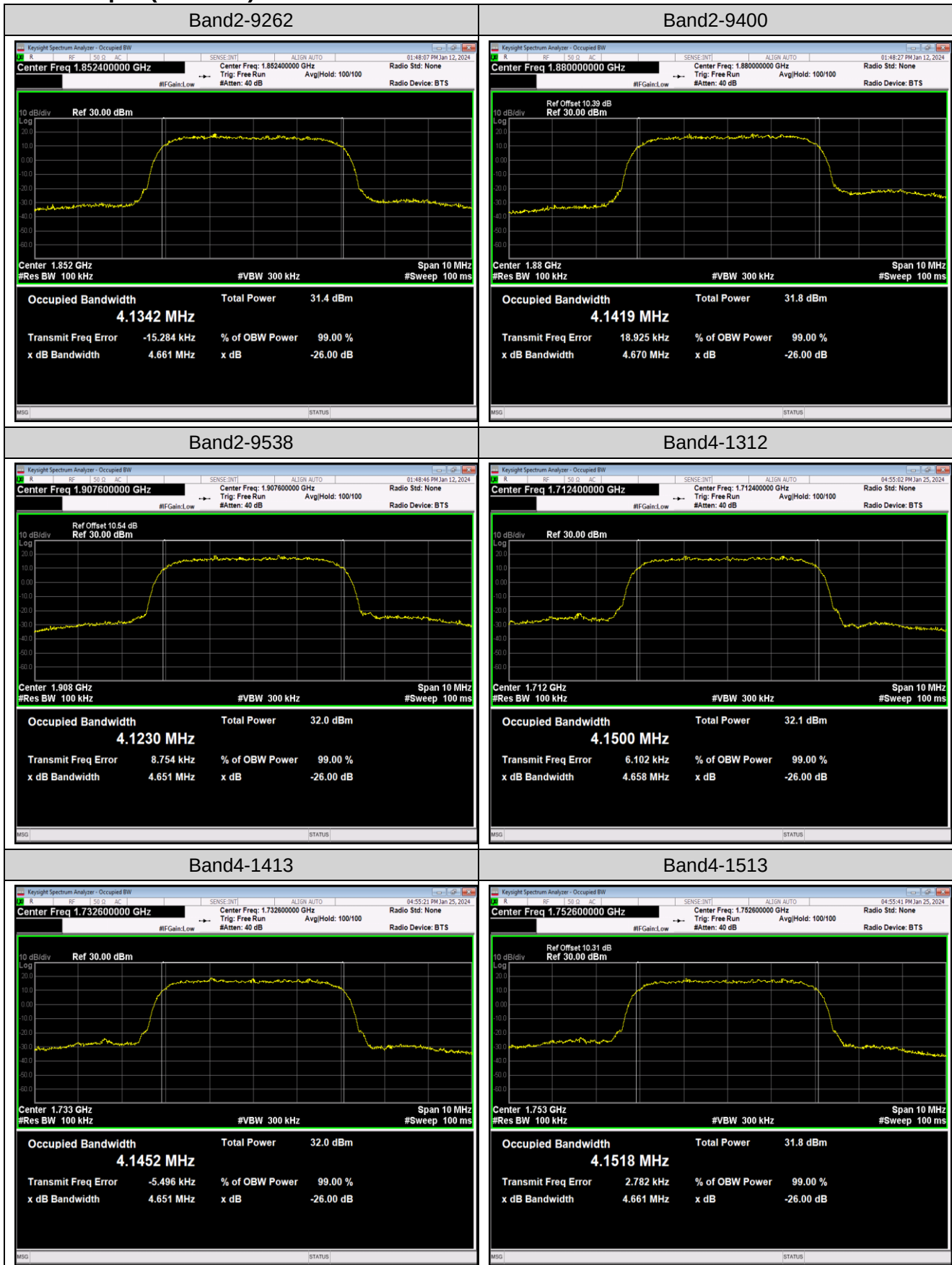


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1342	4.661	---	PASS
Band2	9400	4.1419	4.670	---	PASS
Band2	9538	4.1230	4.651	---	PASS
Band4	1312	4.1500	4.658	---	PASS
Band4	1413	4.1452	4.651	---	PASS
Band4	1513	4.1518	4.661	---	PASS
Band5	4132	4.1451	4.663	---	PASS
Band5	4183	4.1503	4.673	---	PASS
Band5	4233	4.1367	4.664	---	PASS

Test Graphs(WCDMA)



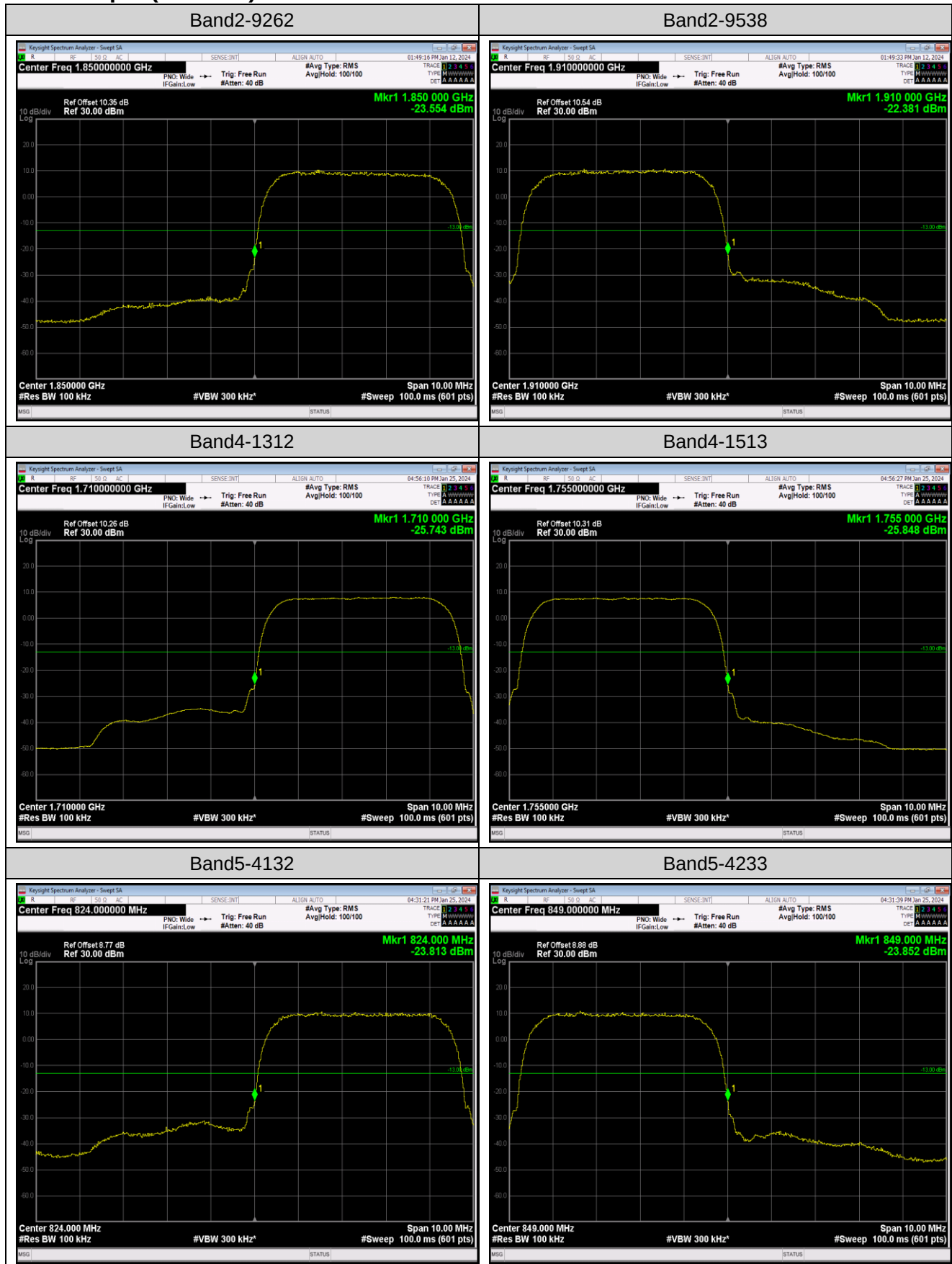


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-23.55	-13	PASS
Band2	9538	1910.00	-22.38	-13	PASS
Band4	1312	1710.00	-25.74	-13	PASS
Band4	1513	1755.00	-25.85	-13	PASS
Band5	4132	824.00	-23.81	-13	PASS
Band5	4233	849.00	-23.85	-13	PASS

Test Graphs(WCDMA)

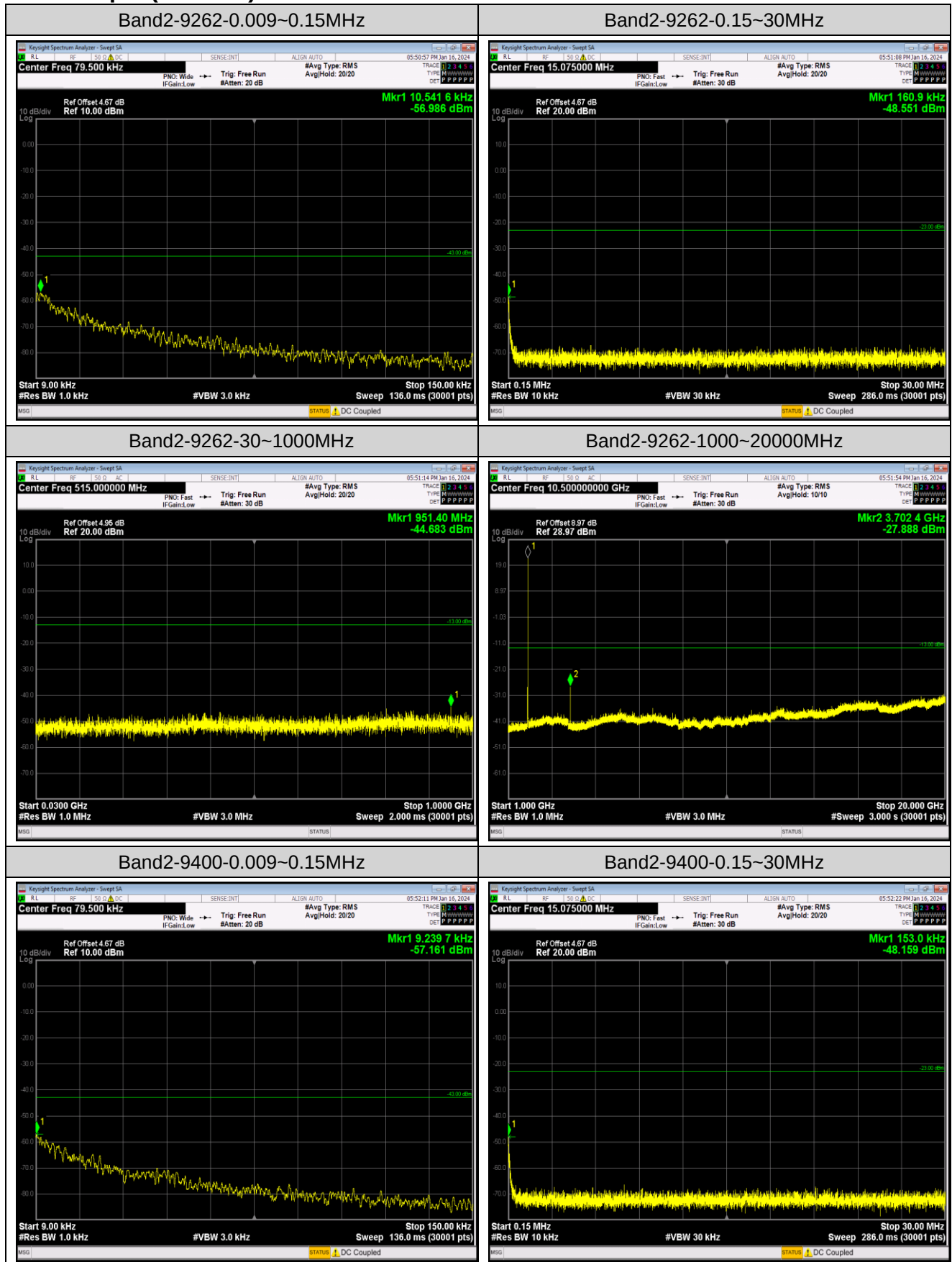


AppendixE:Conducted SpuriousEmission

Test Result(WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-56.99	-43	PASS
Band2	9262	0.15~30MHz	0.16	-48.55	-23	PASS
Band2	9262	30~1000MHz	951.4	-44.68	-13	PASS
Band2	9262	1000~20000MHz	3702.43	-27.89	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-57.16	-43	PASS
Band2	9400	0.15~30MHz	0.15	-48.16	-23	PASS
Band2	9400	30~1000MHz	803.28	-45.72	-13	PASS
Band2	9400	1000~20000MHz	19978.47	-30.77	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-56.49	-43	PASS
Band2	9538	0.15~30MHz	0.16	-46.51	-23	PASS
Band2	9538	30~1000MHz	777.03	-45.73	-13	PASS
Band2	9538	1000~20000MHz	3817.7	-23.61	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-56.53	-43	PASS
Band4	1312	0.15~30MHz	0.15	-49.26	-23	PASS
Band4	1312	30~1000MHz	796.24	-45.15	-13	PASS
Band4	1312	1000~20000MHz	19931.6	-29.87	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-57.78	-43	PASS
Band4	1413	0.15~30MHz	0.16	-48.38	-23	PASS
Band4	1413	30~1000MHz	985.51	-45.5	-13	PASS
Band4	1413	1000~20000MHz	19943	-30.54	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-57.6	-43	PASS
Band4	1513	0.15~30MHz	0.16	-46.69	-23	PASS
Band4	1513	30~1000MHz	801.51	-45.42	-13	PASS
Band4	1513	1000~20000MHz	19880.3	-31.08	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-57.89	-33	PASS
Band5	4132	0.15~30MHz	0.15	-46.13	-13	PASS
Band5	4132	30~1000MHz	967.38	-54.79	-13	PASS
Band5	4132	1000~10000MHz	1654	-34.27	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-54.4	-33	PASS
Band5	4183	0.15~30MHz	0.15	-46.68	-13	PASS
Band5	4183	30~1000MHz	570.26	-54.34	-13	PASS
Band5	4183	1000~10000MHz	1674.7	-32.49	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-55.82	-33	PASS
Band5	4233	0.15~30MHz	0.15	-46.61	-13	PASS
Band5	4233	30~1000MHz	513.9	-54	-13	PASS
Band5	4233	1000~10000MHz	1695.7	-33.3	-13	PASS

Test Graphs(WCDMA)

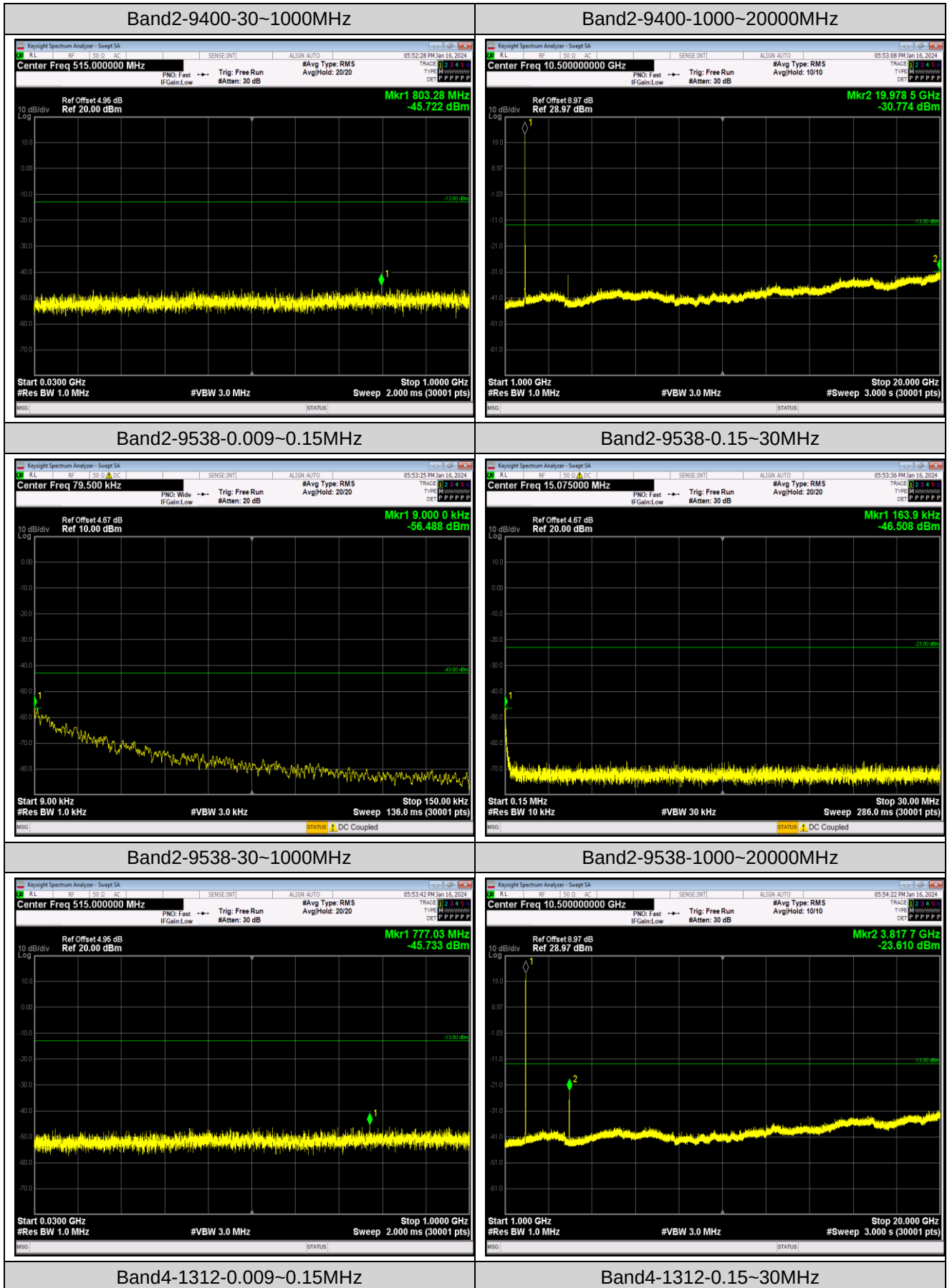


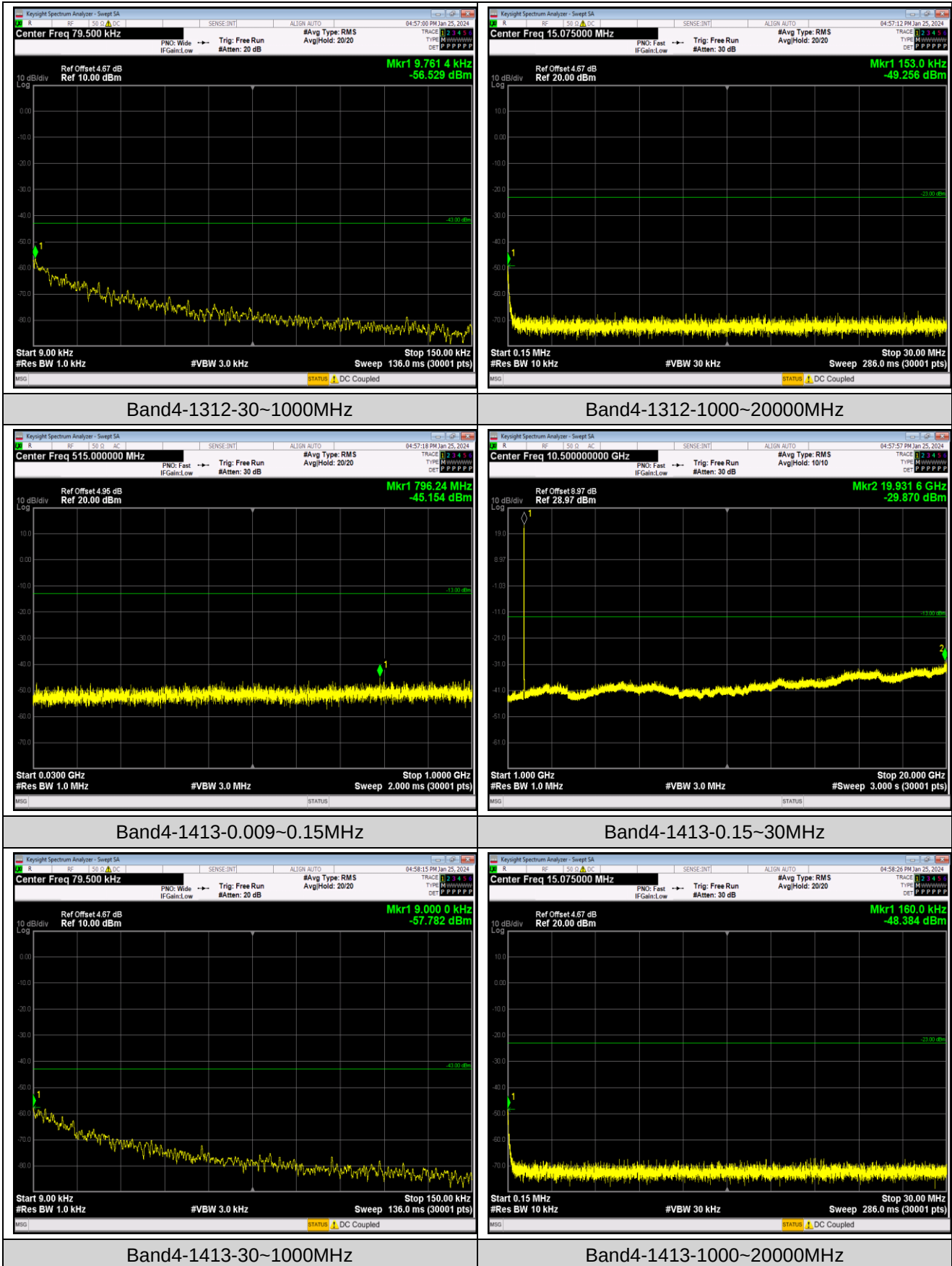
JianYan Testing Group Shenzhen Co., Ltd.

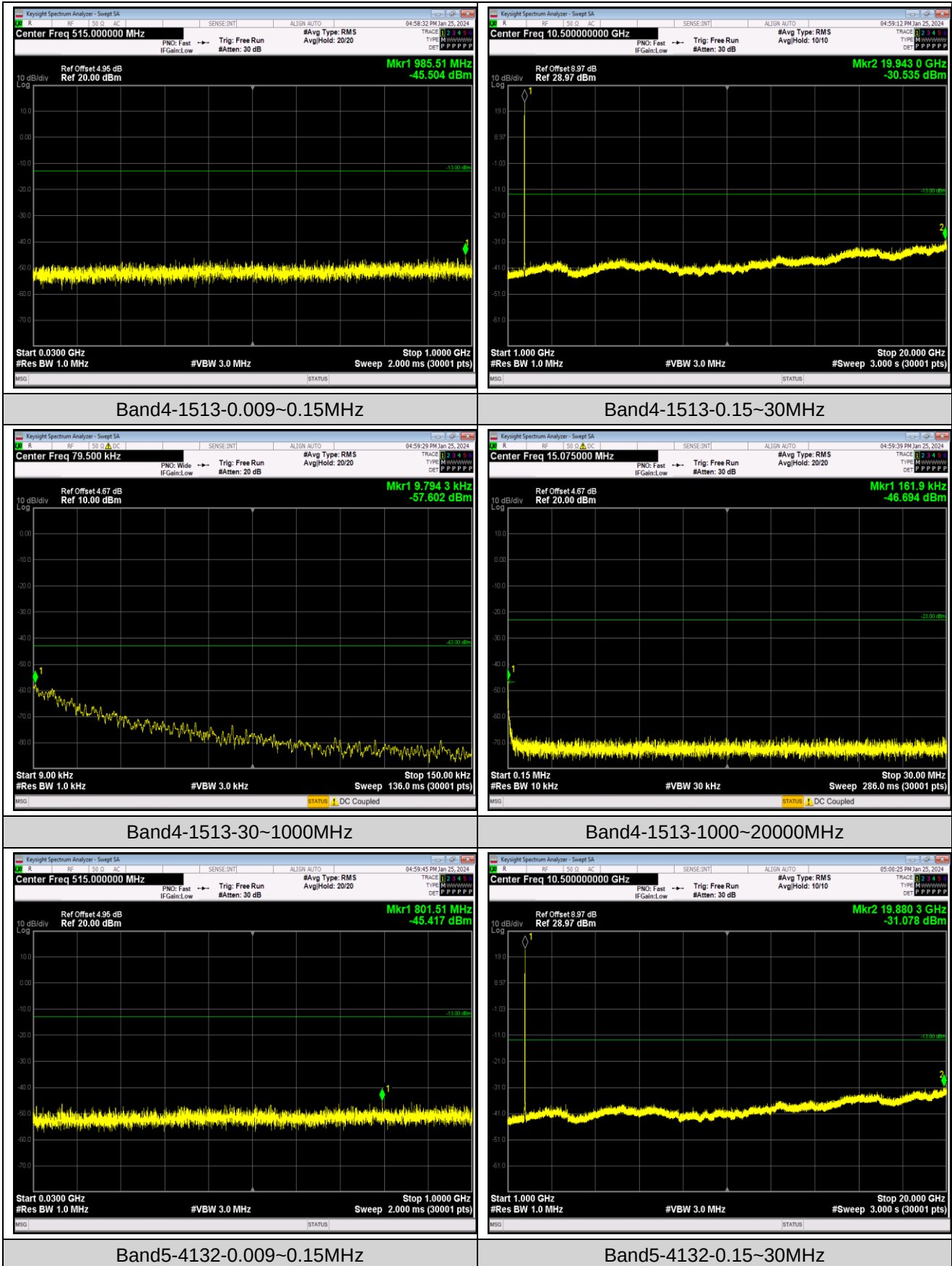
No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

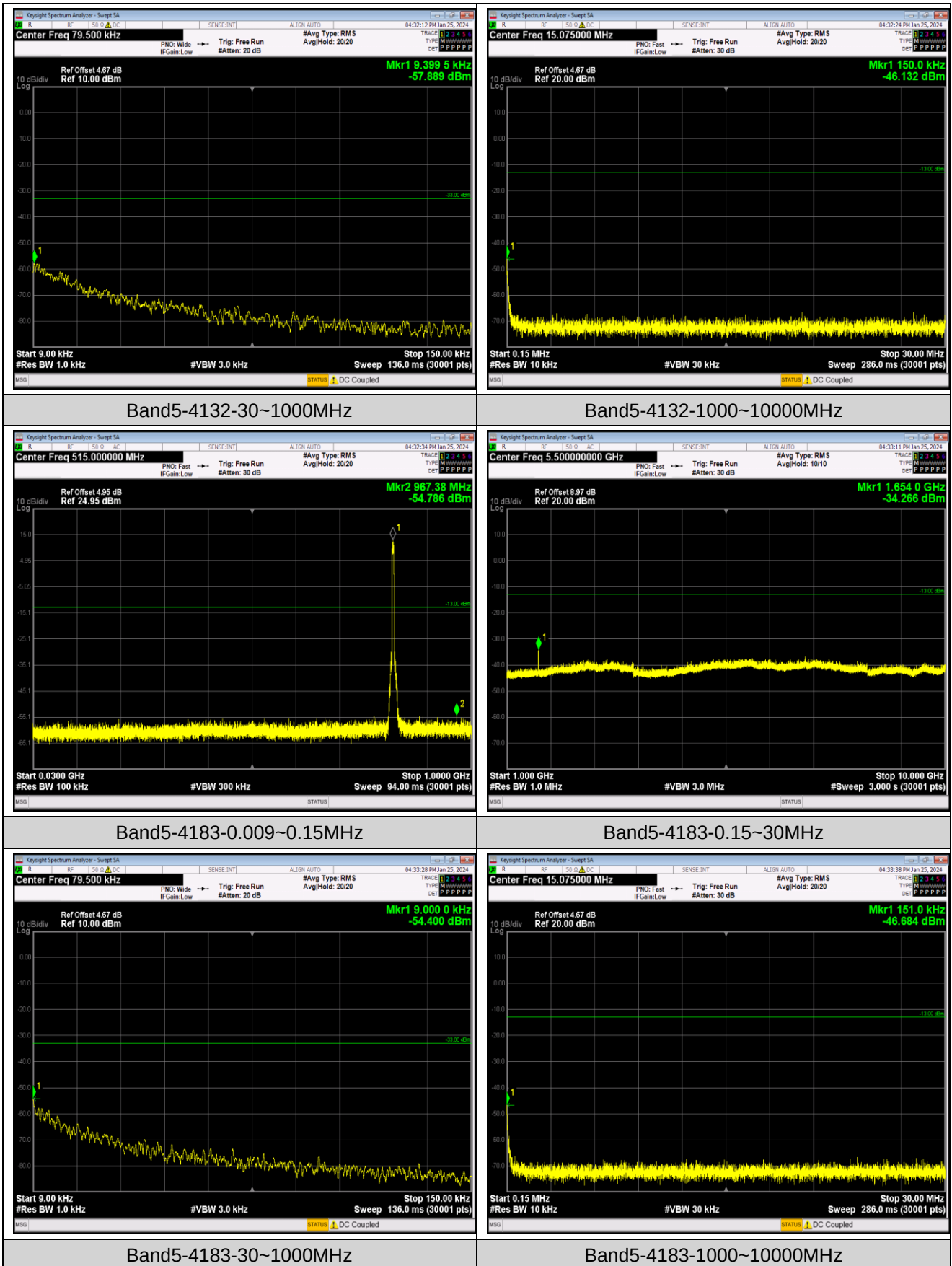
Tel: +86-755-23118282, Fax: +86-755-23116366

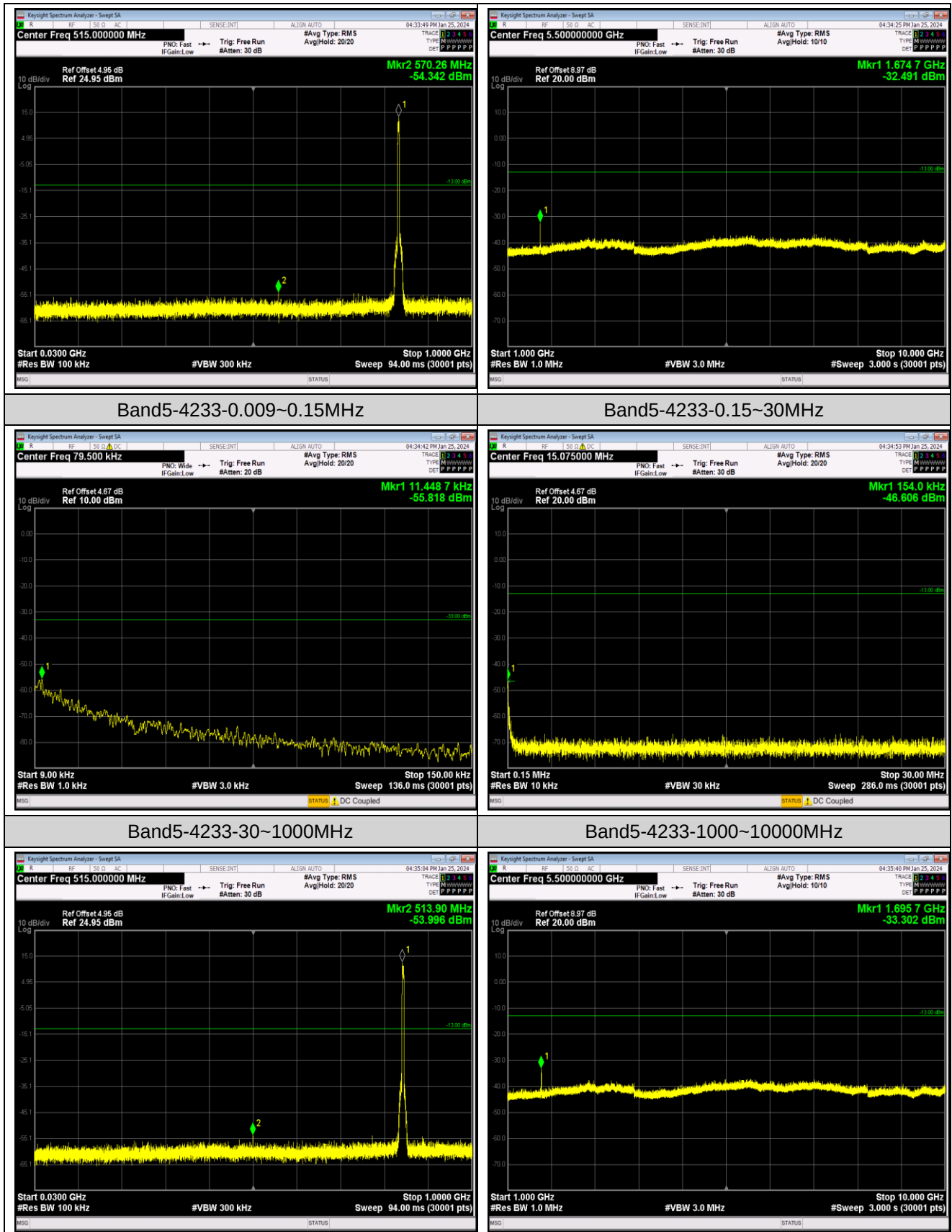
Project No.: JYTSZR2312031











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		
3.70	-30	0.97	0.001159	±2.5	Pass
	-20	0.80	0.000956		
	-10	-0.18	-0.000215		
	0	0.04	0.000048		
	10	0.93	0.001112		
	20	-0.98	-0.001171		
	30	-0.37	-0.000442		
	40	-2.52	-0.003012		
	50	0.73	0.000873		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	0.36	0.000430	±2.5	Pass
	3.70	-0.05	-0.000060		
	4.20	2.03	0.002426		
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		
3.70	-30	-0.79	-0.000456	Within authorized band for BAND IV	Pass
	-20	-4.01	-0.002314		
	-10	-4.33	-0.002499		
	0	-2.25	-0.001299		
	10	0.26	0.000150		
	20	6.63	0.003827		
	30	2.75	0.001587		
	40	-1.29	-0.000745		
	50	0.85	0.000491		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	6.64	0.003832	Within authorized band for BAND IV	Pass
	3.70	-2.09	-0.001206		
	4.20	3.08	0.001778		
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		
3.70	-30	1.27	0.000676	Within authorized band for BAND II	Pass
	-20	-3.37	-0.001793		
	-10	-3.27	-0.001739		
	0	0.51	0.000271		
	10	3.32	0.001766		
	20	-6.15	-0.003271		
	30	-0.70	-0.000372		
	40	1.63	0.000867		
	50	-2.20	-0.001170		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-3.49	-0.001856	Within authorized band for BAND II	Pass
	3.70	2.68	0.001426		
	4.20	5.01	0.002665		
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

