

AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result(WCDMA)

Band	Type	Channel	Conducted Power (dBm)	Unflip ERP/EIRP (dBm)	Flip ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	Voice	9262	22.55	20.75	20.65	33.01	PASS
Band2	TestMode	9262	22.57	20.77	20.67	33.01	PASS
Band2	TestMode	9400	22.87	21.07	20.97	33.01	PASS
Band2	Voice	9400	22.87	21.07	20.97	33.01	PASS
Band2	TestMode	9538	23.15	21.35	21.25	33.01	PASS
Band2	Voice	9538	23.16	21.36	21.26	33.01	PASS
Band4	Voice	1312	22.32	20.92	18.52	30.00	PASS
Band4	TestMode	1312	22.39	20.99	18.59	30.00	PASS
Band4	Voice	1413	22.60	21.2	18.8	30.00	PASS
Band4	TestMode	1413	22.66	21.26	18.86	30.00	PASS
Band4	TestMode	1513	22.53	21.13	18.73	30.00	PASS
Band4	Voice	1513	22.57	21.17	18.77	30.00	PASS
Band5	Voice	4132	23.27	13.92	11.12	38.45	PASS
Band5	TestMode	4132	23.25	13.9	11.1	38.45	PASS
Band5	TestMode	4183	23.31	13.96	11.16	38.45	PASS
Band5	Voice	4183	23.17	13.82	11.02	38.45	PASS
Band5	Voice	4233	23.30	13.95	11.15	38.45	PASS
Band5	TestMode	4233	23.27	13.92	11.12	38.45	PASS

Test Result(HSDPA)

Band	Type	Channel	Conducted Power (dBm)	Unflip ERP/EIRP (dBm)	Flip ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.57	19.77	19.67	33.01	PASS
Band2	9262	2	21.05	19.25	19.15	33.01	PASS
Band2	9262	3	21.06	19.26	19.16	33.01	PASS
Band2	9262	4	21.01	19.21	19.11	33.01	PASS
Band2	9400	1	21.88	20.08	19.98	33.01	PASS
Band2	9400	2	21.32	19.52	19.42	33.01	PASS
Band2	9400	3	21.36	19.56	19.46	33.01	PASS
Band2	9400	4	21.33	19.53	19.43	33.01	PASS
Band2	9538	1	22.13	20.33	20.23	33.01	PASS
Band2	9538	2	21.57	19.77	19.67	33.01	PASS
Band2	9538	3	21.62	19.82	19.72	33.01	PASS

Band2	9538	4	21.62	19.82	19.72	33.01	PASS
Band4	1312	1	21.39	19.99	17.59	30.00	PASS
Band4	1312	2	20.87	19.47	17.07	30.00	PASS
Band4	1312	3	20.95	19.55	17.15	30.00	PASS
Band4	1312	4	20.89	19.49	17.09	30.00	PASS
Band4	1413	1	21.65	20.25	17.85	30.00	PASS
Band4	1413	2	21.16	19.76	17.36	30.00	PASS
Band4	1413	3	21.23	19.83	17.43	30.00	PASS
Band4	1413	4	21.16	19.76	17.36	30.00	PASS
Band4	1513	1	21.53	20.13	17.73	30.00	PASS
Band4	1513	2	21.05	19.65	17.25	30.00	PASS
Band4	1513	3	21.11	19.71	17.31	30.00	PASS
Band4	1513	4	21.09	19.69	17.29	30.00	PASS
Band5	4132	1	22.31	12.96	10.16	38.5	PASS
Band5	4132	2	21.77	12.42	9.62	38.5	PASS
Band5	4132	3	21.83	12.48	9.68	38.5	PASS
Band5	4132	4	21.78	12.43	9.63	38.5	PASS
Band5	4183	1	22.35	13	10.2	38.5	PASS
Band5	4183	2	21.85	12.5	9.7	38.5	PASS
Band5	4183	3	21.90	12.55	9.75	38.5	PASS
Band5	4183	4	21.85	12.5	9.7	38.5	PASS
Band5	4233	1	22.34	12.99	10.19	38.5	PASS
Band5	4233	2	21.86	12.51	9.71	38.5	PASS
Band5	4233	3	21.90	12.55	9.75	38.5	PASS
Band5	4233	4	21.86	12.51	9.71	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	Unflip ERP/EIRP (dBm)	Flip ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.47	17.67	17.57	33.01	PASS
Band2	9262	2	19.99	18.19	18.09	33.01	PASS
Band2	9262	3	20.50	18.7	18.6	33.01	PASS
Band2	9262	4	19.51	17.71	17.61	33.01	PASS
Band2	9262	5	21.50	19.7	19.6	33.01	PASS
Band2	9400	1	19.76	17.96	17.86	33.01	PASS
Band2	9400	2	20.28	18.48	18.38	33.01	PASS
Band2	9400	3	20.78	18.98	18.88	33.01	PASS
Band2	9400	4	19.80	18	17.9	33.01	PASS
Band2	9400	5	21.80	20	19.9	33.01	PASS
Band2	9538	1	19.97	18.17	18.07	33.01	PASS
Band2	9538	2	20.54	18.74	18.64	33.01	PASS

Band2	9538	3	21.03	19.23	19.13	33.01	PASS
Band2	9538	4	20.05	18.25	18.15	33.01	PASS
Band2	9538	5	22.03	20.23	20.13	33.01	PASS
Band4	1312	1	19.58	18.18	14.38	30.00	PASS
Band4	1312	2	20.09	18.69	14.89	30.00	PASS
Band4	1312	3	20.59	19.19	15.39	30.00	PASS
Band4	1312	4	19.59	18.19	14.39	30.00	PASS
Band4	1312	5	21.42	20.02	16.22	30.00	PASS
Band4	1413	1	19.84	18.44	14.64	30.00	PASS
Band4	1413	2	20.36	18.96	15.16	30.00	PASS
Band4	1413	3	20.66	19.26	15.46	30.00	PASS
Band4	1413	4	19.85	18.45	14.65	30.00	PASS
Band4	1413	5	21.68	20.28	16.48	30.00	PASS
Band4	1513	1	19.72	18.32	14.52	30.00	PASS
Band4	1513	2	20.22	18.82	15.02	30.00	PASS
Band4	1513	3	20.54	19.14	15.34	30.00	PASS
Band4	1513	4	19.74	18.34	14.54	30.00	PASS
Band4	1513	5	21.57	20.17	16.37	30.00	PASS
Band5	4132	1	20.26	10.91	8.11	38.5	PASS
Band5	4132	2	20.78	11.43	8.63	38.5	PASS
Band5	4132	3	21.27	11.92	9.12	38.5	PASS
Band5	4132	4	20.29	10.94	8.14	38.5	PASS
Band5	4132	5	22.29	12.94	10.14	38.5	PASS
Band5	4183	1	20.30	10.95	8.15	38.5	PASS
Band5	4183	2	20.84	11.49	8.69	38.5	PASS
Band5	4183	3	21.34	11.99	9.19	38.5	PASS
Band5	4183	4	20.38	11.03	8.23	38.5	PASS
Band5	4183	5	22.35	13	10.2	38.5	PASS
Band5	4233	1	20.32	10.97	8.17	38.5	PASS
Band5	4233	2	20.85	11.5	8.7	38.5	PASS
Band5	4233	3	21.33	11.98	9.18	38.5	PASS
Band5	4233	4	20.36	11.01	8.21	38.5	PASS
Band5	4233	5	21.89	12.54	9.74	38.5	PASS

Remark: $EIRP\ (dBm) = \text{Conducted power}\ (dBm) + \text{Antenna Gain}\ (dBi)$. (For Band2&b4)
 $ERP\ (dBm) = EIRP\ (dBm) - 2.15\ (dB)$. (For Band5)

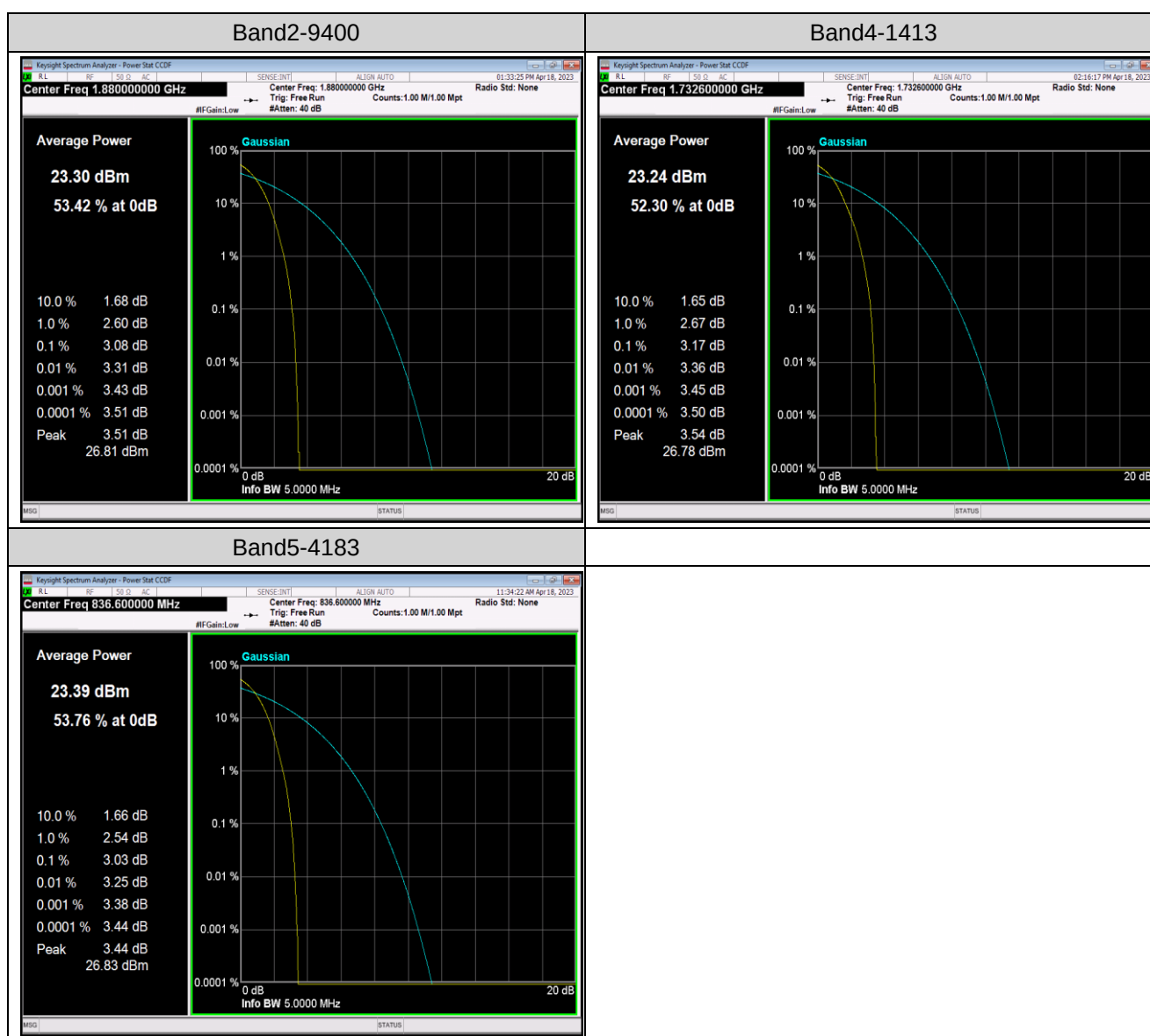
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.08	13	PASS
Band4	1413	3.17	13	PASS
Band5	4183	3.03	13	PASS

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

Test Graphs(WCDMA)

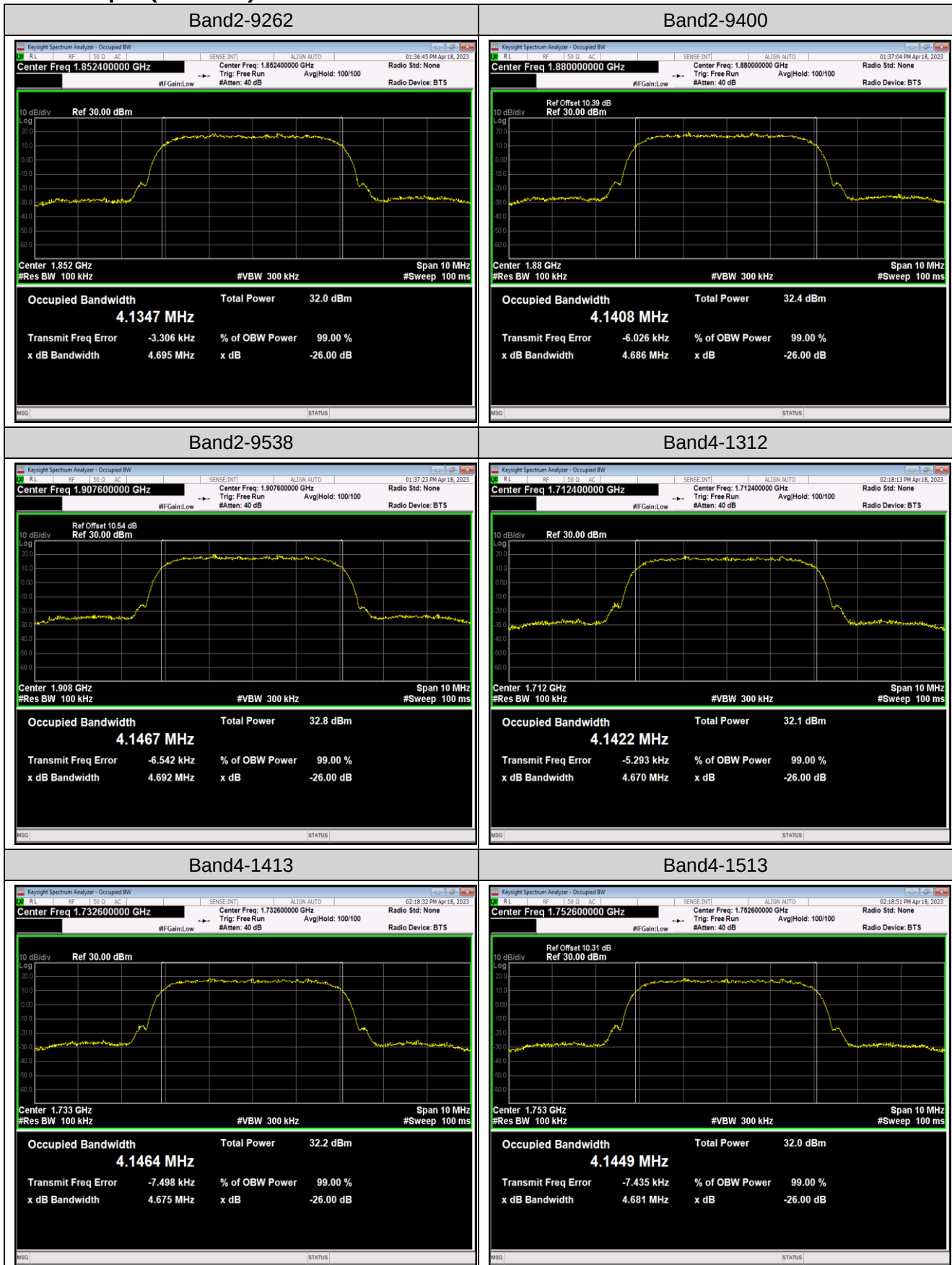


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1347	4.695	---	PASS
Band2	9400	4.1408	4.686	---	PASS
Band2	9538	4.1467	4.692	---	PASS
Band4	1312	4.1422	4.670	---	PASS
Band4	1413	4.1464	4.675	---	PASS
Band4	1513	4.1449	4.681	---	PASS
Band5	4132	4.1427	4.701	---	PASS
Band5	4183	4.1413	4.694	---	PASS
Band5	4233	4.1394	4.689	---	PASS

Test Graphs(WCDMA)



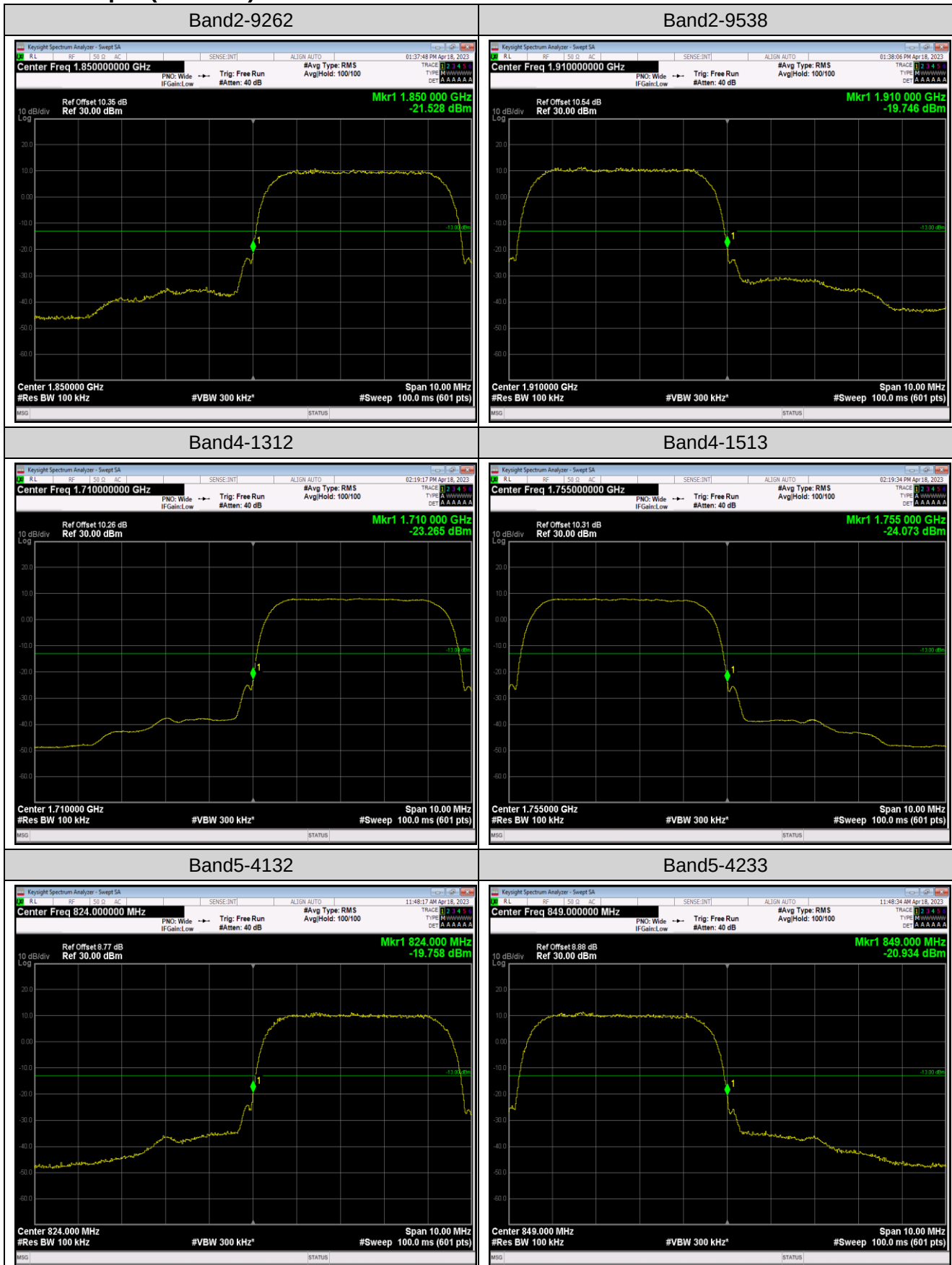


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-21.53	-13	PASS
Band2	9538	1910.00	-19.75	-13	PASS
Band4	1312	1710.00	-23.27	-13	PASS
Band4	1513	1755.00	-24.07	-13	PASS
Band5	4132	824.00	-19.76	-13	PASS
Band5	4233	849.00	-20.93	-13	PASS

Test Graphs(WCDMA)

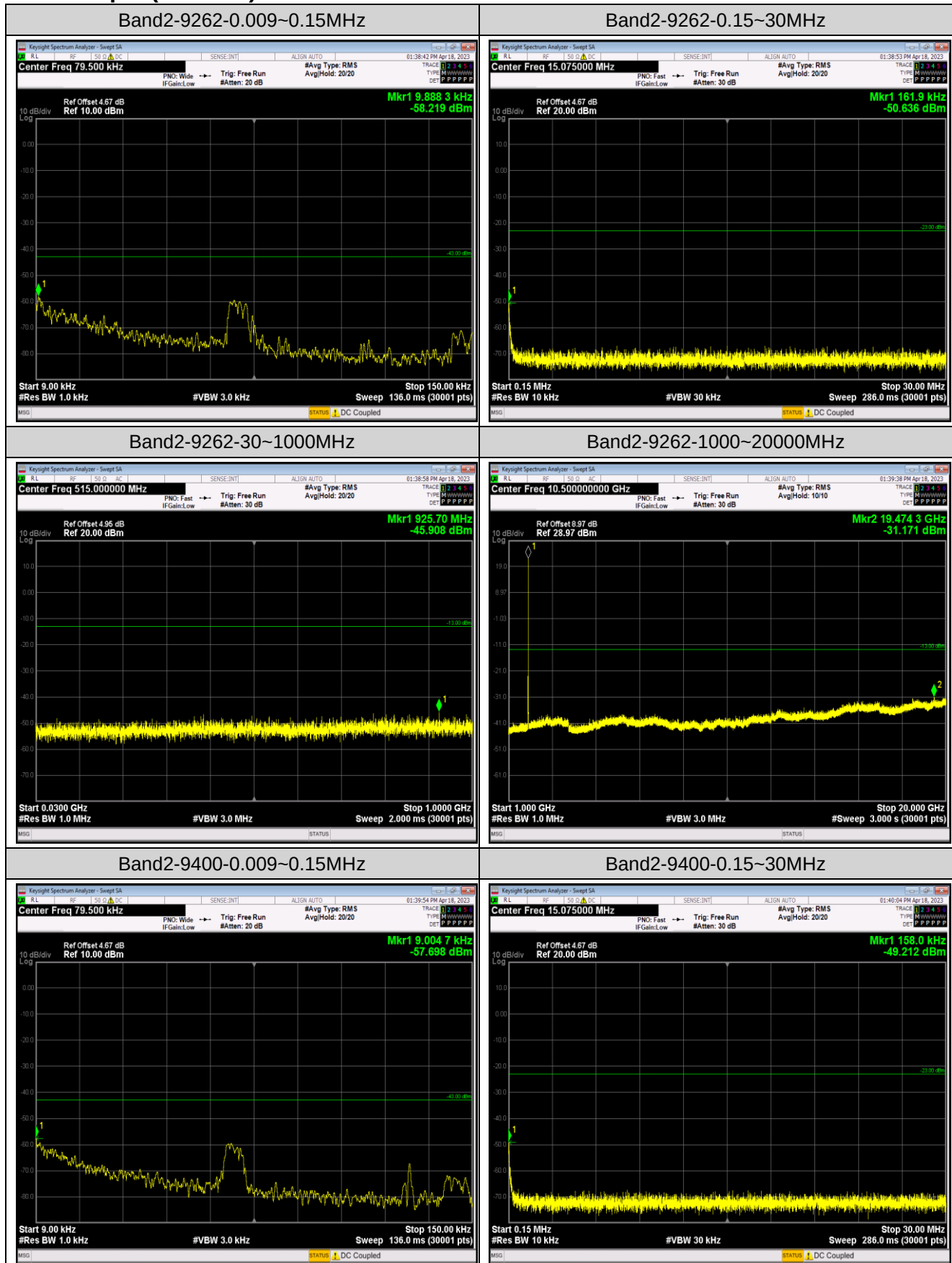


AppendixE:Conducted SpuriousEmission

Test Result(WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-58.22	-43	PASS
Band2	9262	0.15~30MHz	0.16	-50.64	-23	PASS
Band2	9262	30~1000MHz	925.7	-45.91	-13	PASS
Band2	9262	1000~20000MHz	19474.33	-31.17	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-57.7	-43	PASS
Band2	9400	0.15~30MHz	0.16	-49.21	-23	PASS
Band2	9400	30~1000MHz	407.17	-45.81	-13	PASS
Band2	9400	1000~20000MHz	19917.03	-31.24	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-57.54	-43	PASS
Band2	9538	0.15~30MHz	0.15	-51.07	-23	PASS
Band2	9538	30~1000MHz	973.2	-46.49	-13	PASS
Band2	9538	1000~20000MHz	19967.07	-31.2	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-57.45	-43	PASS
Band4	1312	0.15~30MHz	0.15	-49.76	-23	PASS
Band4	1312	30~1000MHz	912.28	-45.77	-13	PASS
Band4	1312	1000~20000MHz	19941.1	-31.11	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-57.09	-43	PASS
Band4	1413	0.15~30MHz	0.16	-50.5	-23	PASS
Band4	1413	30~1000MHz	719.02	-46.63	-13	PASS
Band4	1413	1000~20000MHz	19937.93	-29.59	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-57.75	-43	PASS
Band4	1513	0.15~30MHz	0.15	-48.78	-23	PASS
Band4	1513	30~1000MHz	984.06	-46.14	-13	PASS
Band4	1513	1000~20000MHz	19511.07	-31.14	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-58.25	-33	PASS
Band5	4132	0.15~30MHz	0.15	-50.21	-13	PASS
Band5	4132	30~1000MHz	510.51	-55.35	-13	PASS
Band5	4132	1000~10000MHz	6066.4	-37.02	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-57.03	-33	PASS
Band5	4183	0.15~30MHz	0.15	-50.22	-13	PASS
Band5	4183	30~1000MHz	531.72	-54.96	-13	PASS
Band5	4183	1000~10000MHz	6027.7	-36.85	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-57	-33	PASS
Band5	4233	0.15~30MHz	0.15	-49.55	-13	PASS
Band5	4233	30~1000MHz	517.94	-54.81	-13	PASS
Band5	4233	1000~10000MHz	5898.4	-36.43	-13	PASS

Test Graphs(WCDMA)

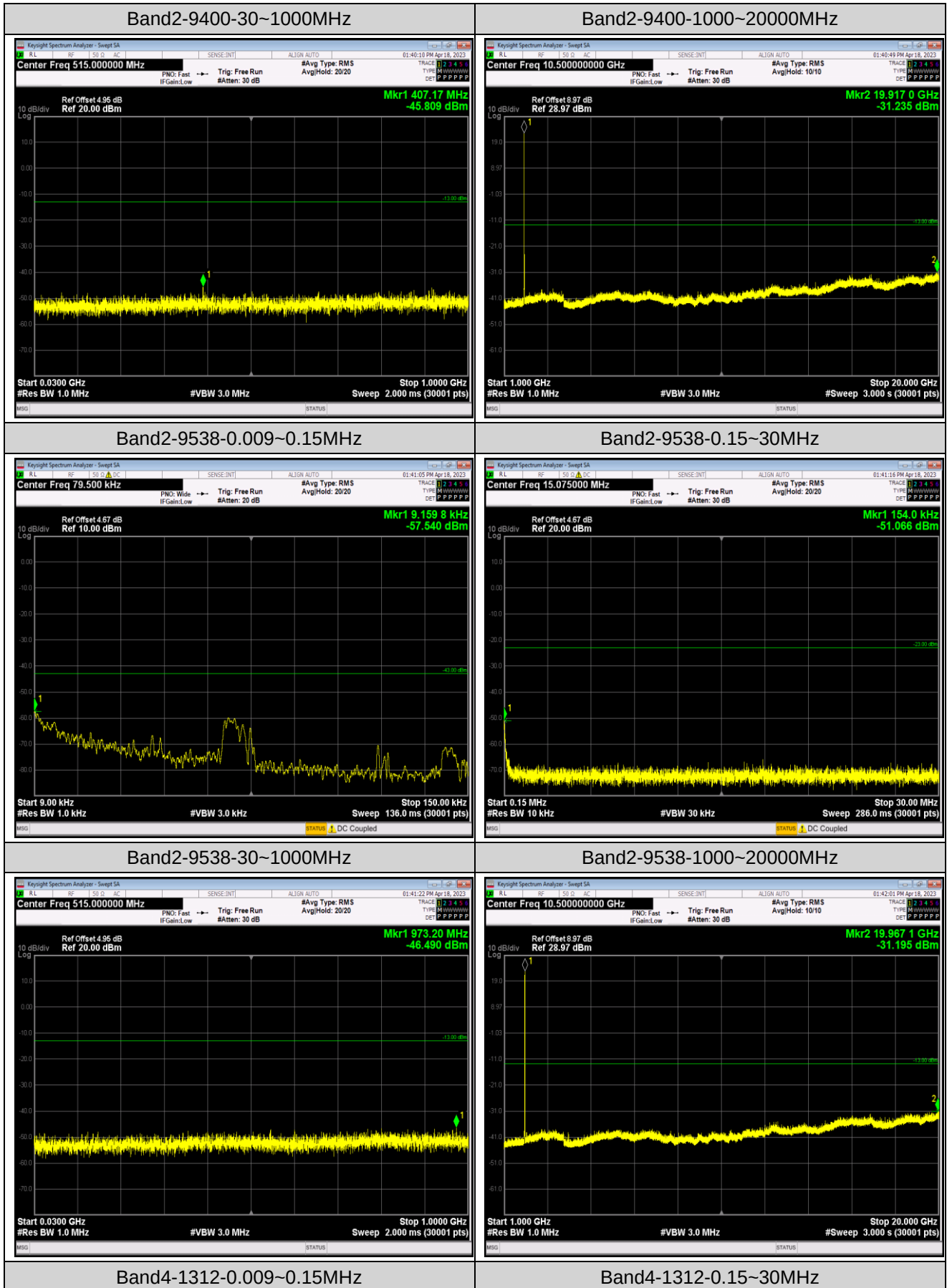


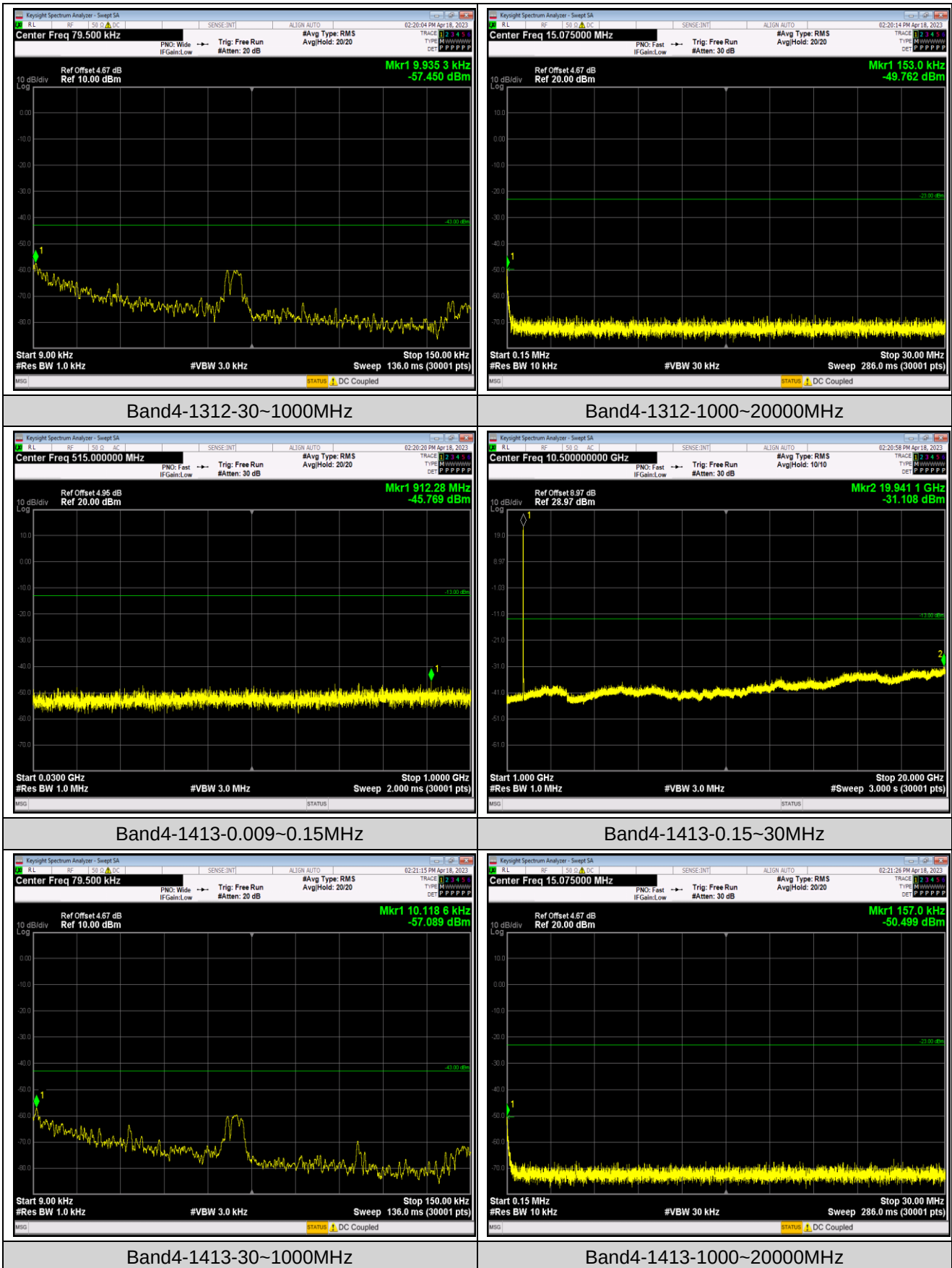
JianYan Testing Group Shenzhen Co., Ltd.

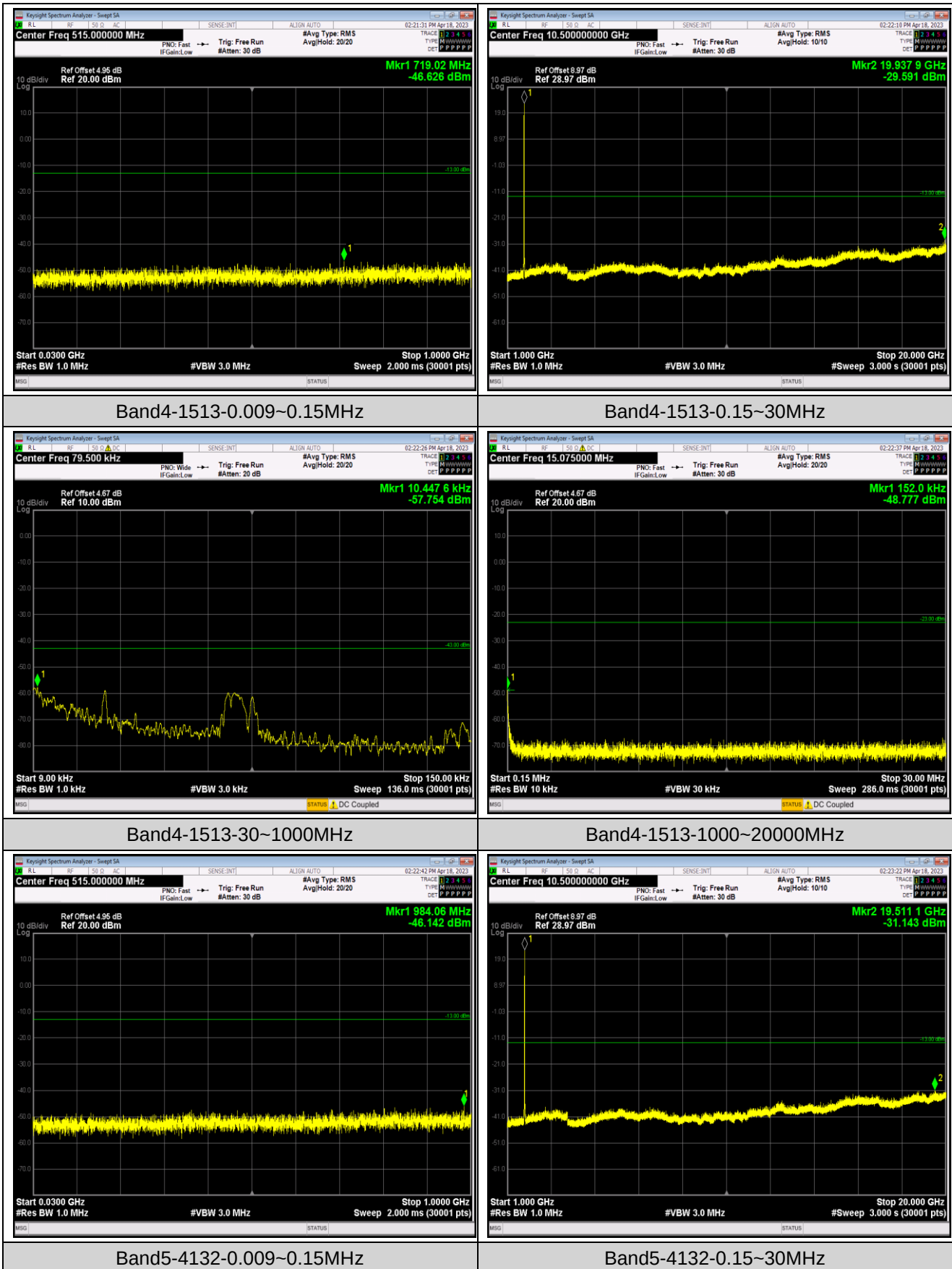
No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

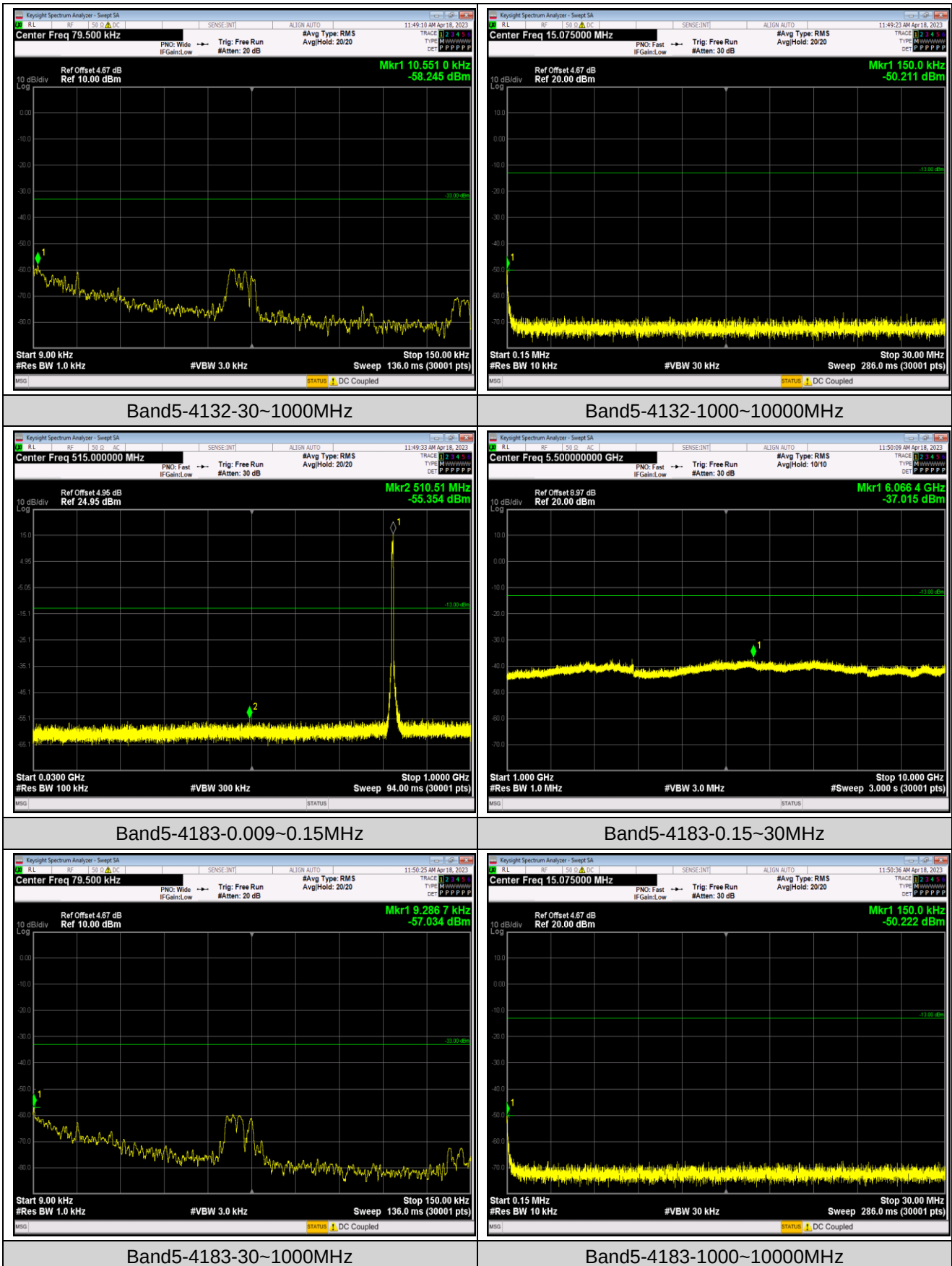
Tel: +86-755-23118282, Fax: +86-755-23116366

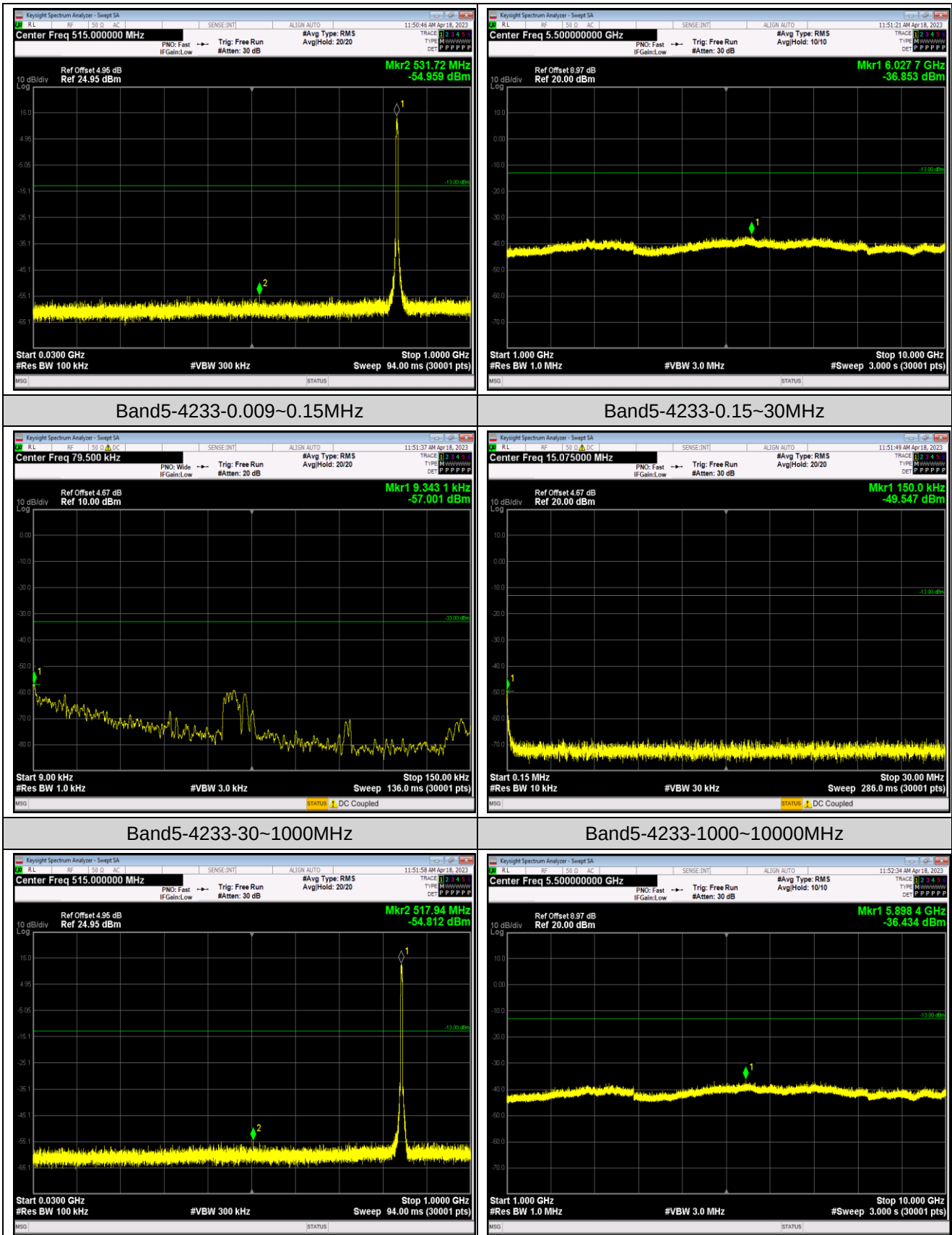
Project No.: JYTSZR2304025











AppendixF:Frequency Stability

Test Result

Reference Frequency: WCDMA BAND II 12.2k RMC Middle channel=9400 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.89	-30	1.04	0.000553	Within authorized band for BAND II	Pass
	-20	1.21	0.000644		
	-10	1.52	0.000809		
	0	1.85	0.000984		
	10	1.83	0.000973		
	20	2.11	0.001122		
	30	2.05	0.001090		
	40	2.46	0.001309		
	50	2.34	0.001245		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-0.60	-0.000319	Within authorized band for BAND II	Pass
	3.89	-1.68	-0.000894		
	4.48	0.44	0.000234		
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 channel=1413 Frequency=1732.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.89	-30	0.09	0.000052	Within authorized band for BAND IV	Pass
	-20	0.39	0.000225		
	-10	0.46	0.000265		
	0	0.45	0.000260		
	10	1.72	0.000993		
	20	0.81	0.000468		
	30	1.23	0.000710		
	40	1.70	0.000981		
	50	1.36	0.000785		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-0.66	-0.000381	Within authorized band for BAND IV	Pass
	3.89	-1.70	-0.000981		
	4.48	-0.06	-0.000035		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

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		
3.89	-30	0.41	0.000490	±2.5	Pass
	-20	0.38	0.000454		
	-10	0.85	0.001016		
	0	0.92	0.001100		
	10	0.98	0.001171		
	20	0.82	0.000980		
	30	0.87	0.001040		
	40	0.89	0.001064		
	50	1.09	0.001303		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-0.95	-0.001136	±2.5	Pass
	3.89	-1.35	-0.001614		
	4.48	-0.15	-0.000179		
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

