

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	21.70	22.42	33.01	PASS
Band2	TestMode	9262	21.71	22.43	33.01	PASS
Band2	TestMode	9400	21.65	22.37	33.01	PASS
Band2	Voice	9400	21.61	22.33	33.01	PASS
Band2	TestMode	9538	21.63	22.35	33.01	PASS
Band2	Voice	9538	21.57	22.29	33.01	PASS
Band4	Voice	1312	22.93	24.7	30.00	PASS
Band4	TestMode	1312	23.01	24.78	30.00	PASS
Band4	Voice	1413	22.58	24.35	30.00	PASS
Band4	TestMode	1413	22.74	24.51	30.00	PASS
Band4	TestMode	1513	22.59	24.36	30.00	PASS
Band4	Voice	1513	22.49	24.26	30.00	PASS
Band5	Voice	4132	22.86	18.58	38.45	PASS
Band5	TestMode	4132	22.85	18.57	38.45	PASS
Band5	TestMode	4183	22.81	18.53	38.45	PASS
Band5	Voice	4183	22.80	18.52	38.45	PASS
Band5	Voice	4233	22.77	18.49	38.45	PASS
Band5	TestMode	4233	22.74	18.46	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.25	21.97	33.01	PASS
Band2	9262	2	20.90	21.62	33.01	PASS
Band2	9262	3	20.70	21.42	33.01	PASS
Band2	9262	4	20.80	21.52	33.01	PASS
Band2	9400	1	20.05	20.77	33.01	PASS
Band2	9400	2	19.81	20.53	33.01	PASS
Band2	9400	3	19.53	20.25	33.01	PASS
Band2	9400	4	19.64	20.36	33.01	PASS
Band2	9538	1	20.76	21.48	33.01	PASS
Band2	9538	2	20.50	21.22	33.01	PASS
Band2	9538	3	20.40	21.12	33.01	PASS
Band2	9538	4	20.42	21.14	33.01	PASS

Band4	1312	1	22.36	24.13	30.00	PASS
Band4	1312	2	22.40	24.17	30.00	PASS
Band4	1312	3	22.33	24.1	30.00	PASS
Band4	1312	4	22.35	24.12	30.00	PASS
Band4	1413	1	20.86	22.63	30.00	PASS
Band4	1413	2	20.96	22.73	30.00	PASS
Band4	1413	3	20.97	22.74	30.00	PASS
Band4	1413	4	21.01	22.78	30.00	PASS
Band4	1513	1	22.03	23.8	30.00	PASS
Band4	1513	2	21.91	23.68	30.00	PASS
Band4	1513	3	21.74	23.51	30.00	PASS
Band4	1513	4	21.75	23.52	30.00	PASS
Band5	4132	1	22.59	18.31	38.5	PASS
Band5	4132	2	22.89	18.61	38.5	PASS
Band5	4132	3	22.58	18.3	38.5	PASS
Band5	4132	4	22.62	18.34	38.5	PASS
Band5	4183	1	22.05	17.77	38.5	PASS
Band5	4183	2	21.87	17.59	38.5	PASS
Band5	4183	3	21.79	17.51	38.5	PASS
Band5	4183	4	21.84	17.56	38.5	PASS
Band5	4233	1	22.24	17.96	38.5	PASS
Band5	4233	2	21.99	17.71	38.5	PASS
Band5	4233	3	21.63	17.35	38.5	PASS
Band5	4233	4	21.67	17.39	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	18.65	19.37	33.01	PASS
Band2	9262	2	19.27	19.99	33.01	PASS
Band2	9262	3	19.07	19.79	33.01	PASS
Band2	9262	4	19.34	20.06	33.01	PASS
Band2	9262	5	21.30	22.02	33.01	PASS
Band2	9400	1	18.02	18.74	33.01	PASS
Band2	9400	2	18.44	19.16	33.01	PASS
Band2	9400	3	18.23	18.95	33.01	PASS
Band2	9400	4	18.50	19.22	33.01	PASS
Band2	9400	5	20.13	20.85	33.01	PASS
Band2	9538	1	18.53	19.25	33.01	PASS
Band2	9538	2	18.95	19.67	33.01	PASS
Band2	9538	3	18.72	19.44	33.01	PASS

Band2	9538	4	18.99	19.71	33.01	PASS
Band2	9538	5	20.84	21.56	33.01	PASS
Band4	1312	1	22.32	24.09	30.00	PASS
Band4	1312	2	22.19	23.96	30.00	PASS
Band4	1312	3	22.07	23.84	30.00	PASS
Band4	1312	4	22.22	23.99	30.00	PASS
Band4	1312	5	22.48	24.25	30.00	PASS
Band4	1413	1	20.88	22.65	30.00	PASS
Band4	1413	2	20.97	22.74	30.00	PASS
Band4	1413	3	20.76	22.53	30.00	PASS
Band4	1413	4	21.16	22.93	30.00	PASS
Band4	1413	5	21.05	22.82	30.00	PASS
Band4	1513	1	21.91	23.68	30.00	PASS
Band4	1513	2	21.71	23.48	30.00	PASS
Band4	1513	3	21.48	23.25	30.00	PASS
Band4	1513	4	21.67	23.44	30.00	PASS
Band4	1513	5	21.99	23.76	30.00	PASS
Band5	4132	1	21.57	17.29	38.5	PASS
Band5	4132	2	21.84	17.56	38.5	PASS
Band5	4132	3	21.64	17.36	38.5	PASS
Band5	4132	4	21.41	17.13	38.5	PASS
Band5	4132	5	22.88	18.9	38.5	PASS
Band5	4183	1	20.81	16.53	38.5	PASS
Band5	4183	2	20.95	16.67	38.5	PASS
Band5	4183	3	20.66	16.38	38.5	PASS
Band5	4183	4	20.46	16.18	38.5	PASS
Band5	4183	5	22.49	18.21	38.5	PASS
Band5	4233	1	20.91	16.63	38.5	PASS
Band5	4233	2	21.04	16.76	38.5	PASS
Band5	4233	3	20.77	16.49	38.5	PASS
Band5	4233	4	20.92	16.64	38.5	PASS
Band5	4233	5	22.60	18.32	38.5	PASS

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

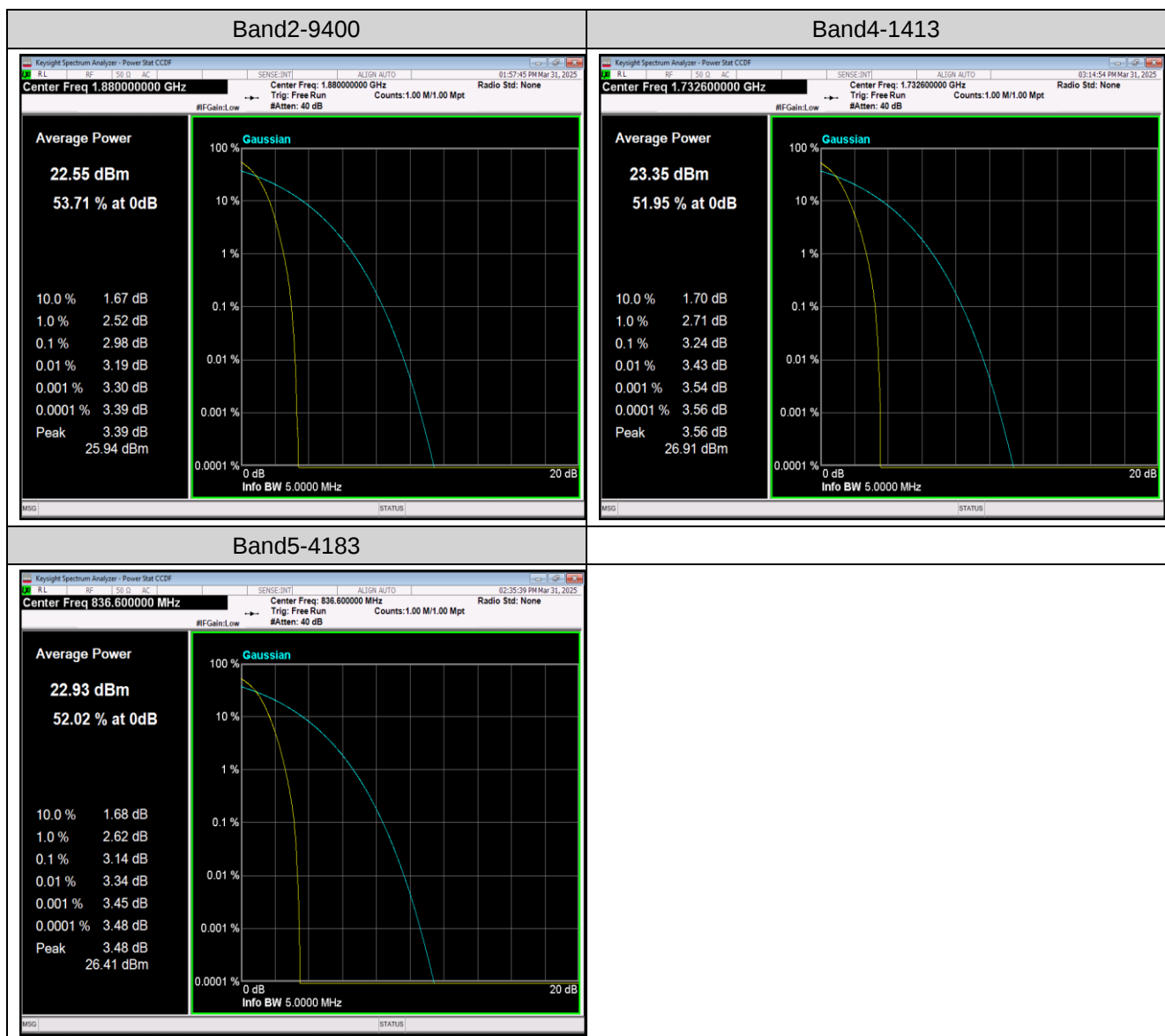
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.98	13	PASS
Band4	1413	3.24	13	PASS
Band5	4183	3.14	13	PASS

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

Test Graphs(WCDMA)

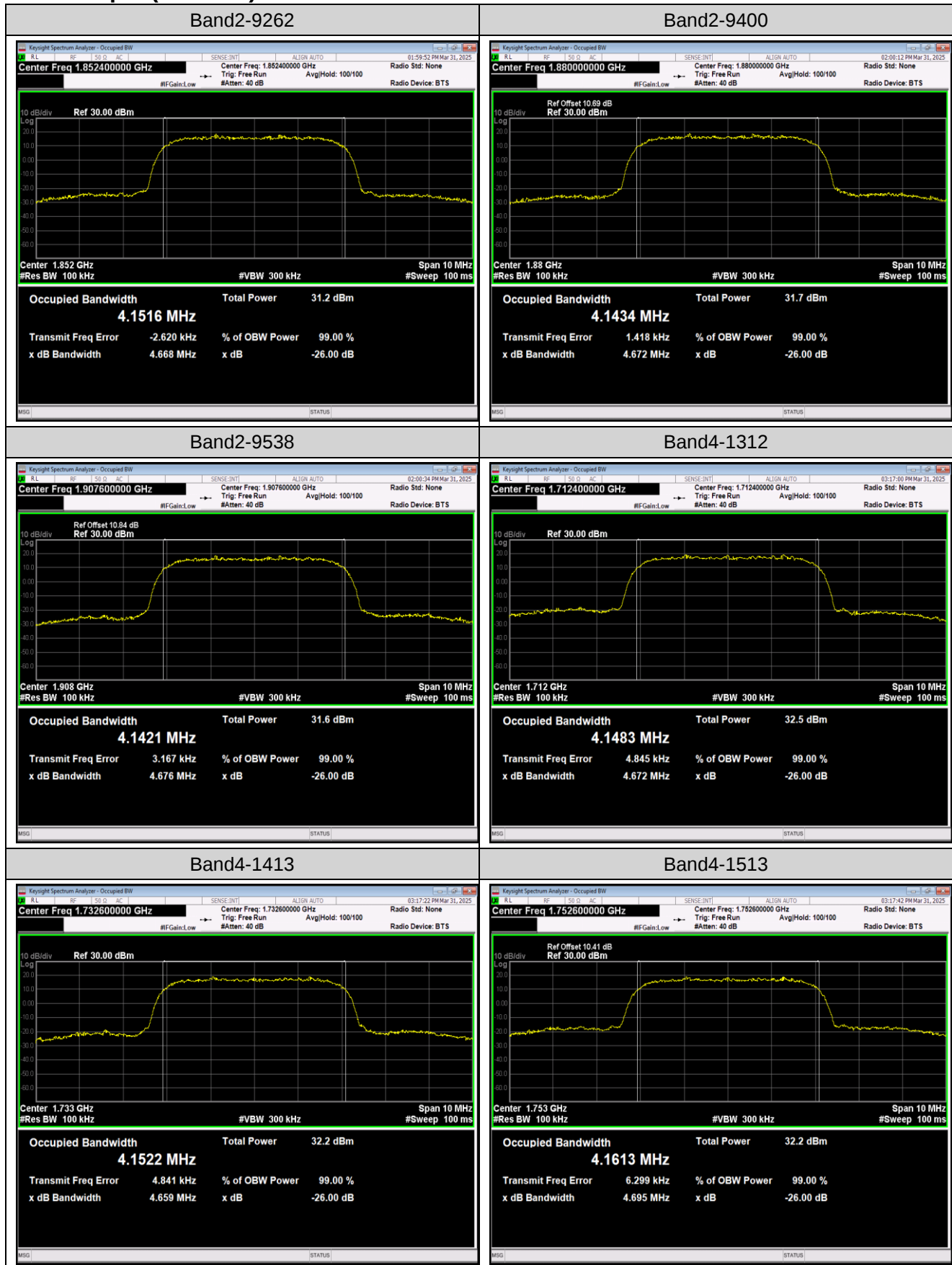


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1516	4.668	---	PASS
Band2	9400	4.1434	4.672	---	PASS
Band2	9538	4.1421	4.676	---	PASS
Band4	1312	4.1483	4.672	---	PASS
Band4	1413	4.1522	4.659	---	PASS
Band4	1513	4.1613	4.695	---	PASS
Band5	4132	4.1410	4.663	---	PASS
Band5	4183	4.1590	4.661	---	PASS
Band5	4233	4.1634	4.670	---	PASS

Test Graphs(WCDMA)



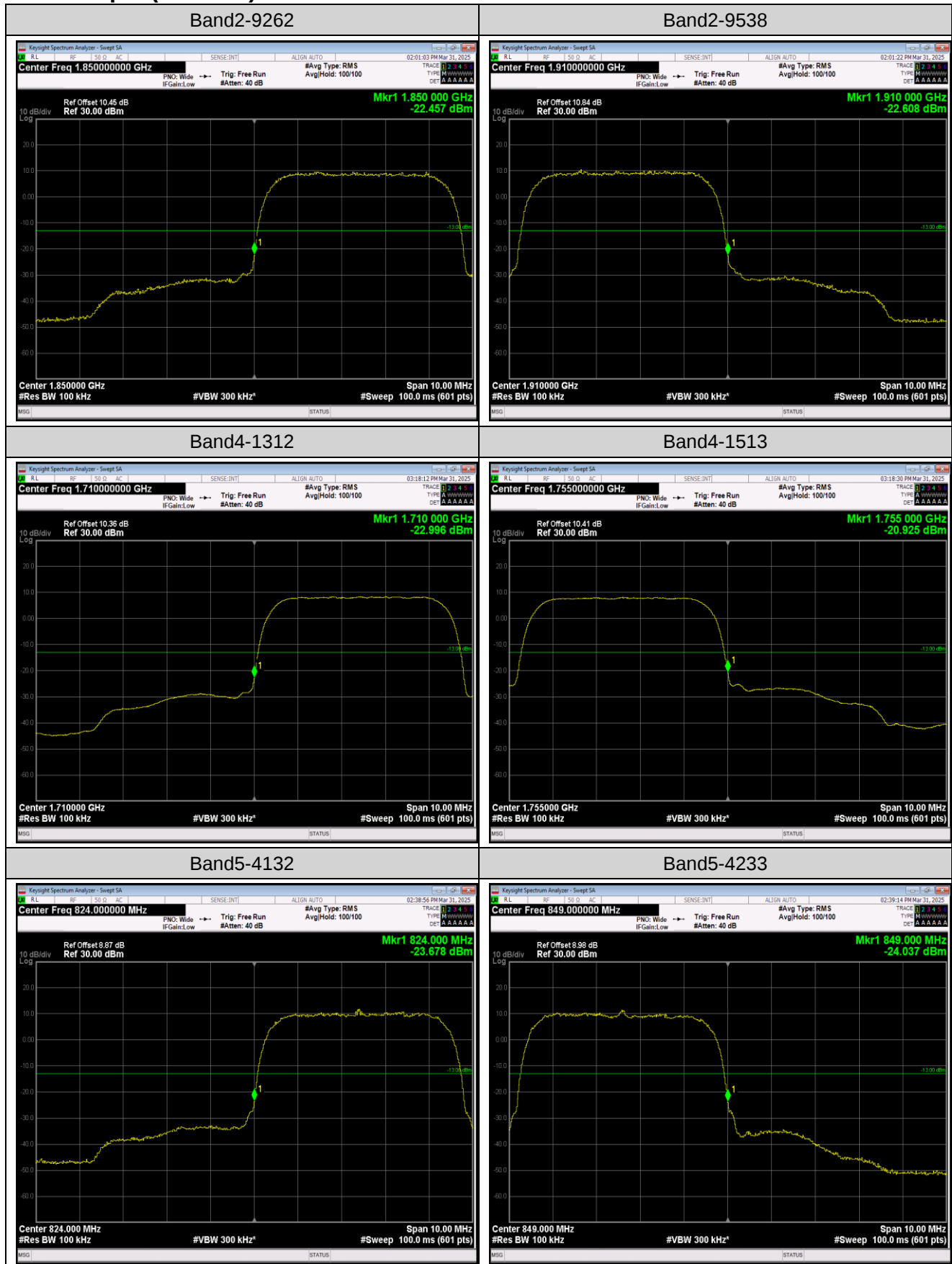


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-22.46	-13	PASS
Band2	9538	1910.00	-22.61	-13	PASS
Band4	1312	1710.00	-23.00	-13	PASS
Band4	1513	1755.00	-20.93	-13	PASS
Band5	4132	824.00	-23.68	-13	PASS
Band5	4233	849.00	-24.04	-13	PASS

Test Graphs(WCDMA)

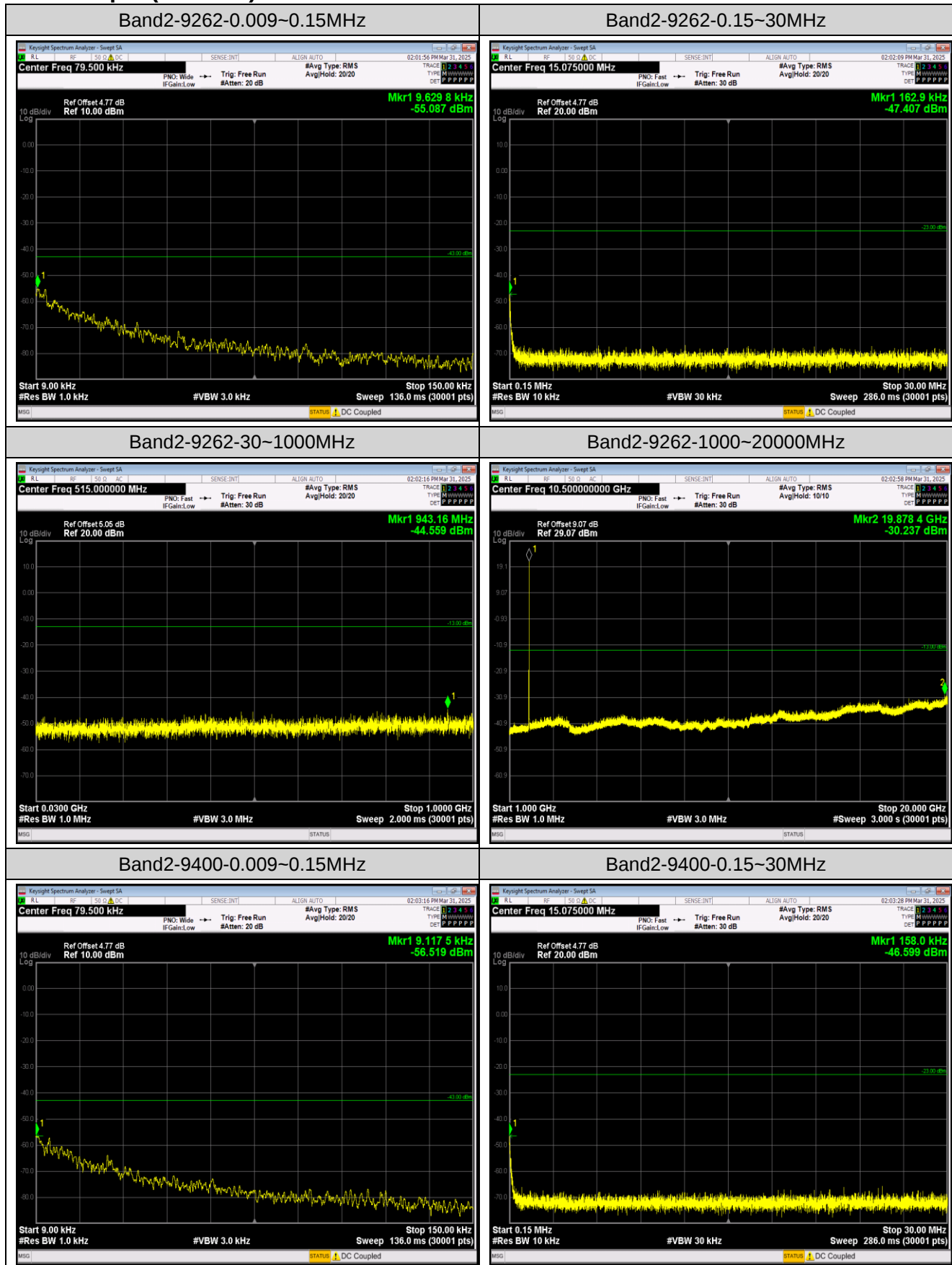


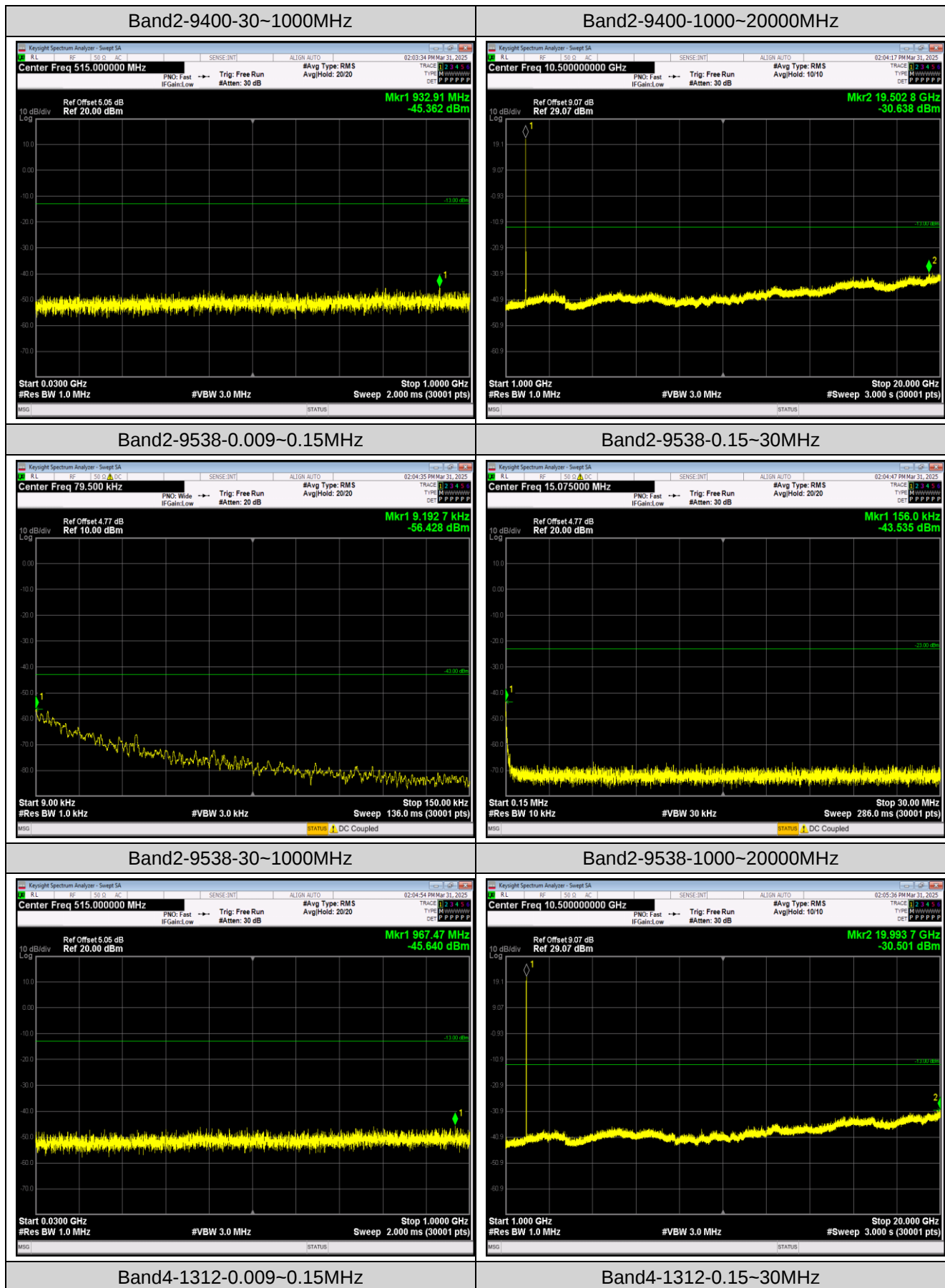
AppendixE:Conducted SpuriousEmission

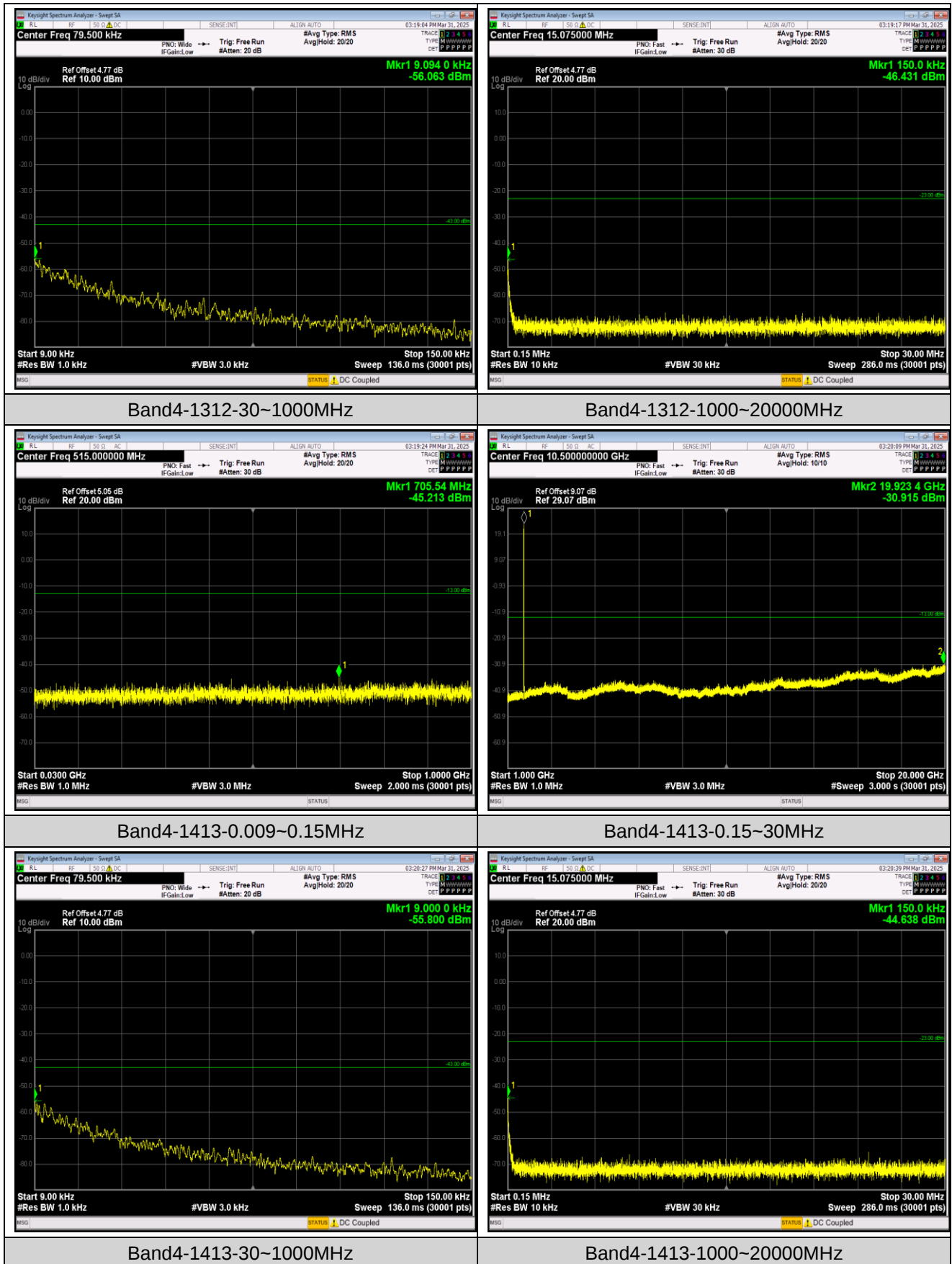
Test Result(WCDMA)

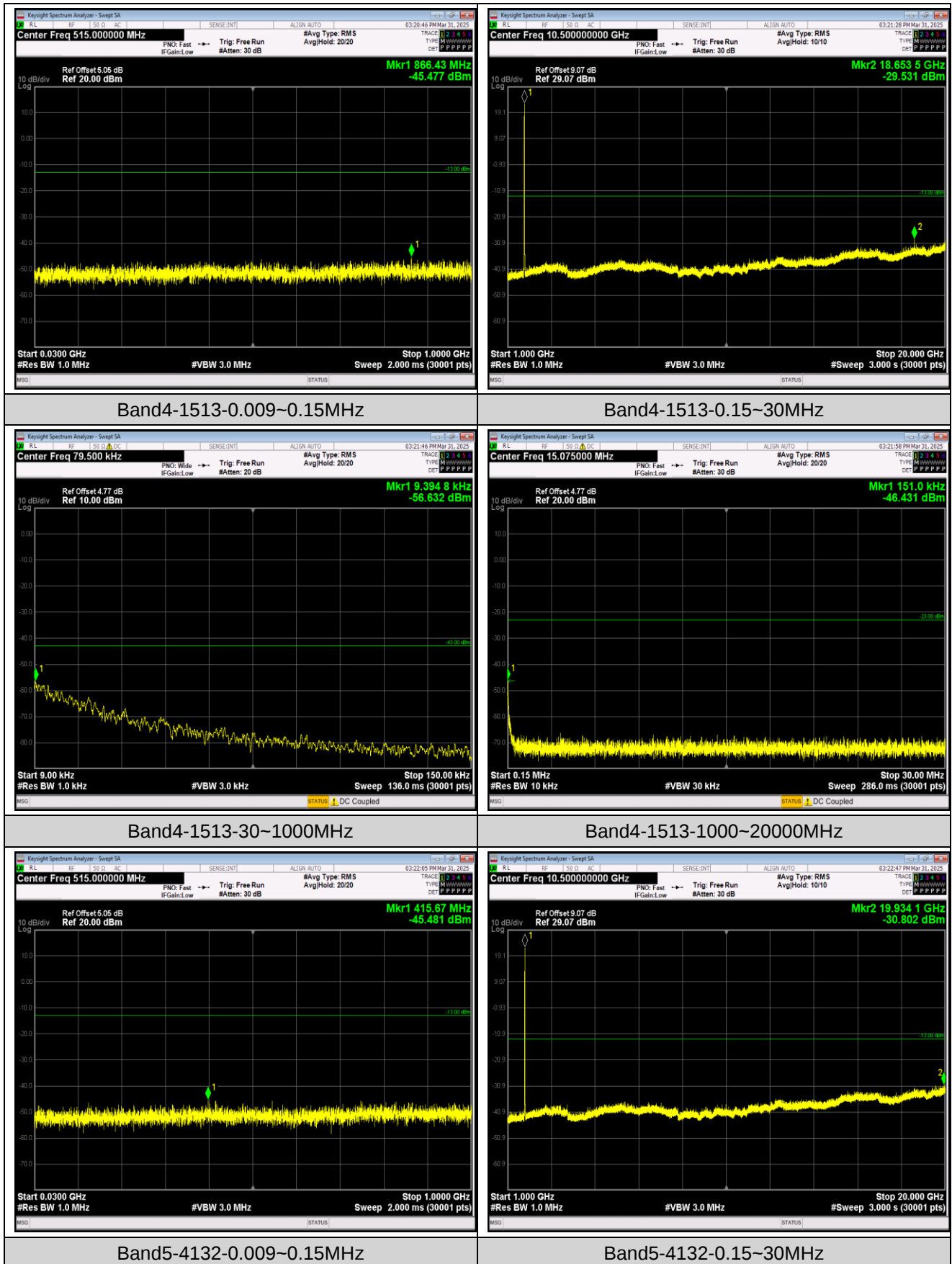
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-55.09	-43	PASS
Band2	9262	0.15~30MHz	0.16	-47.41	-23	PASS
Band2	9262	30~1000MHz	943.16	-44.56	-13	PASS
Band2	9262	1000~20000MHz	19878.4	-30.24	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-56.52	-43	PASS
Band2	9400	0.15~30MHz	0.16	-46.6	-23	PASS
Band2	9400	30~1000MHz	932.91	-45.36	-13	PASS
Band2	9400	1000~20000MHz	19502.83	-30.64	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-56.43	-43	PASS
Band2	9538	0.15~30MHz	0.16	-43.54	-23	PASS
Band2	9538	30~1000MHz	967.47	-45.64	-13	PASS
Band2	9538	1000~20000MHz	19993.67	-30.5	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-56.06	-43	PASS
Band4	1312	0.15~30MHz	0.15	-46.43	-23	PASS
Band4	1312	30~1000MHz	705.54	-45.21	-13	PASS
Band4	1312	1000~20000MHz	19923.37	-30.92	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-55.8	-43	PASS
Band4	1413	0.15~30MHz	0.15	-44.64	-23	PASS
Band4	1413	30~1000MHz	866.43	-45.48	-13	PASS
Band4	1413	1000~20000MHz	18653.53	-29.53	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-56.63	-43	PASS
Band4	1513	0.15~30MHz	0.15	-46.43	-23	PASS
Band4	1513	30~1000MHz	415.67	-45.48	-13	PASS
Band4	1513	1000~20000MHz	19934.13	-30.8	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-55.8	-33	PASS
Band5	4132	0.15~30MHz	0.15	-47.19	-13	PASS
Band5	4132	30~1000MHz	527.51	-54.08	-13	PASS
Band5	4132	1000~10000MHz	6084.7	-36.59	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-56.67	-33	PASS
Band5	4183	0.15~30MHz	0.15	-45.99	-13	PASS
Band5	4183	30~1000MHz	963.01	-53.85	-13	PASS
Band5	4183	1000~10000MHz	7373.8	-36.01	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-54.51	-33	PASS
Band5	4233	0.15~30MHz	0.15	-47.55	-13	PASS
Band5	4233	30~1000MHz	992.53	-54.8	-13	PASS
Band5	4233	1000~10000MHz	5862.4	-36.2	-13	PASS

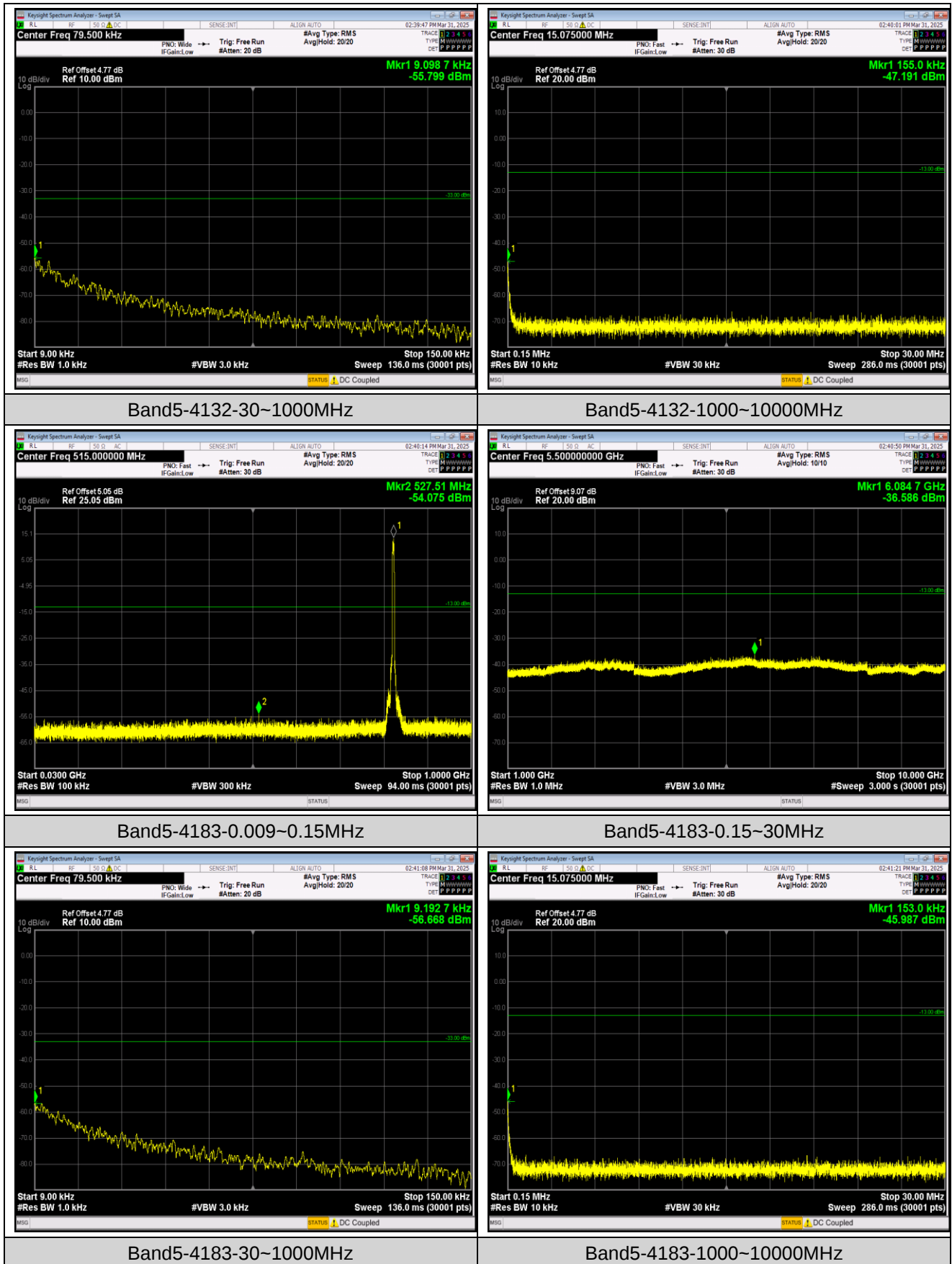
Test Graphs(WCDMA)

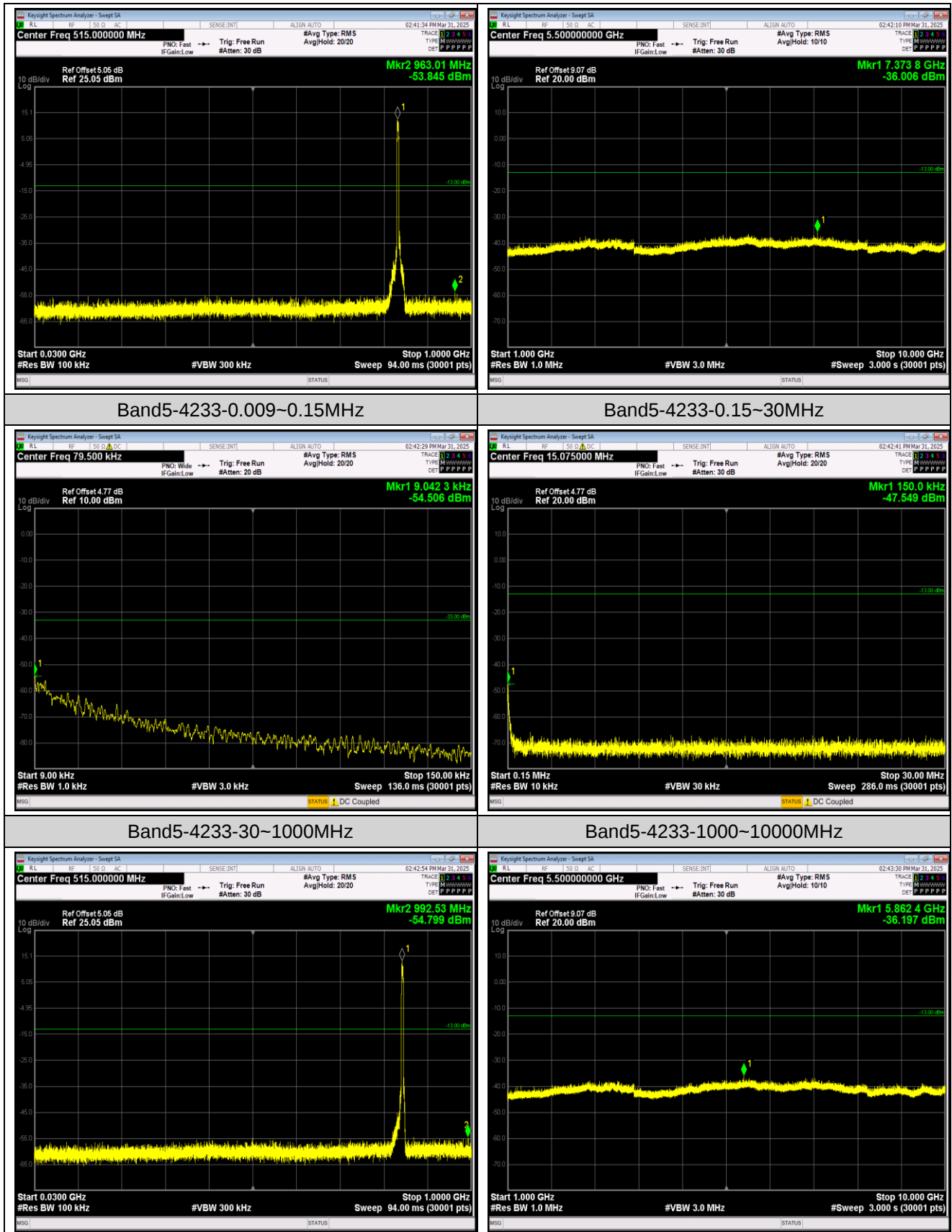












AppendixF:Frequency Stability

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	1.27	0.001518	±2.5	Pass
	-20	1.24	0.001482		
	-10	-0.84	-0.001004		
	0	1.34	0.001602		
	10	0.46	0.000550		
	20	1.19	0.001422		
	30	-0.59	-0.000705		
	40	0.61	0.000729		
	50	0.44	0.000526		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	-0.98	-0.001171	±2.5	Pass
	3.85	1.09	0.001303		
	4.40	1.13	0.001351		
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	-7.87	-0.004542	Within authorized band for BAND IV	Pass
	-20	-2.66	-0.001535		
	-10	10.08	0.005818		
	0	5.89	0.003400		
	10	-1.82	-0.001050		
	20	4.85	0.002799		
	30	0.13	0.000075		
	40	-4.45	-0.002568		
	50	-0.31	-0.000179		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	-0.69	-0.000398	Within authorized band for BAND IV	Pass
	3.85	-2.60	-0.001501		
	4.40	-1.85	-0.001068		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-5.23	-0.002782	Within authorized band for BAND II	Pass
	-20	-2.62	-0.001394		
	-10	-3.39	-0.001803		
	0	-6.12	-0.003255		
	10	-2.24	-0.001191		
	20	-5.11	-0.002718		
	30	-5.53	-0.002941		
	40	-0.97	-0.000516		
	50	-3.25	-0.001729		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	-1.77	-0.000941	Within authorized band for BAND II	Pass
	3.85	-3.03	-0.001612		
	4.40	-6.42	-0.003415		
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

