

WCDMA B5(ANT0) TX

WCDMA B2/B4 (ANT2) 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	23.27	14.97	33.01	PASS
Band2	TestMode	9262	23.31	15.01	33.01	PASS
Band2	TestMode	9400	23.19	14.89	33.01	PASS
Band2	Voice	9400	23.13	14.83	33.01	PASS
Band2	Voice	9538	23.22	14.92	33.01	PASS
Band2	TestMode	9538	23.24	14.94	33.01	PASS
Band4	TestMode	1312	22.91	14.71	30.00	PASS
Band4	Voice	1312	22.83	14.63	30.00	PASS
Band4	TestMode	1413	23.64	15.44	30.00	PASS
Band4	Voice	1413	23.54	15.34	30.00	PASS
Band4	TestMode	1513	23.13	14.93	30.00	PASS
Band4	Voice	1513	23.09	14.89	30.00	PASS
Band5	TestMode	4132	22.53	13.49	38.45	PASS
Band5	Voice	4132	22.55	13.51	38.45	PASS
Band5	Voice	4183	22.88	13.84	38.45	PASS
Band5	TestMode	4183	22.87	13.83	38.45	PASS
Band5	Voice	4233	22.73	13.69	38.45	PASS
Band5	TestMode	4233	22.75	13.71	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.99	14.69	33.01	PASS
Band2	9262	2	22.81	14.51	33.01	PASS
Band2	9262	3	22.62	14.32	33.01	PASS
Band2	9262	4	22.64	14.34	33.01	PASS
Band2	9400	1	22.63	14.33	33.01	PASS
Band2	9400	2	22.45	14.15	33.01	PASS
Band2	9400	3	22.25	13.95	33.01	PASS
Band2	9400	4	22.31	14.01	33.01	PASS

Band2	9538	1	22.79	14.49	33.01	PASS
Band2	9538	2	22.55	14.25	33.01	PASS
Band2	9538	3	22.40	14.1	33.01	PASS
Band2	9538	4	22.40	14.1	33.01	PASS
Band4	1312	1	22.57	14.37	30.00	PASS
Band4	1312	2	22.72	14.52	30.00	PASS
Band4	1312	3	22.68	14.48	30.00	PASS
Band4	1312	4	22.72	14.52	30.00	PASS
Band4	1413	1	23.27	15.07	30.00	PASS
Band4	1413	2	23.33	15.13	30.00	PASS
Band4	1413	3	23.27	15.07	30.00	PASS
Band4	1413	4	23.31	15.11	30.00	PASS
Band4	1513	1	22.58	14.38	30.00	PASS
Band4	1513	2	22.65	14.45	30.00	PASS
Band4	1513	3	22.63	14.43	30.00	PASS
Band4	1513	4	22.70	14.5	30.00	PASS
Band5	4132	1	21.67	12.63	38.5	PASS
Band5	4132	2	21.49	12.45	38.5	PASS
Band5	4132	3	20.83	11.79	38.5	PASS
Band5	4132	4	20.86	11.82	38.5	PASS
Band5	4183	1	21.64	12.6	38.5	PASS
Band5	4183	2	21.43	12.39	38.5	PASS
Band5	4183	3	21.07	12.03	38.5	PASS
Band5	4183	4	21.04	12	38.5	PASS
Band5	4233	1	21.83	12.79	38.5	PASS
Band5	4233	2	21.73	12.69	38.5	PASS
Band5	4233	3	21.10	12.06	38.5	PASS
Band5	4233	4	21.12	12.08	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	20.85	12.55	33.01	PASS
Band2	9262	2	21.52	13.22	33.01	PASS
Band2	9262	3	21.29	12.99	33.01	PASS
Band2	9262	4	21.60	13.3	33.01	PASS
Band2	9262	5	23.24	14.94	33.01	PASS
Band2	9400	1	20.95	12.65	33.01	PASS
Band2	9400	2	21.41	13.11	33.01	PASS
Band2	9400	3	21.19	12.89	33.01	PASS
Band2	9400	4	21.49	13.19	33.01	PASS

Band2	9400	5	22.89	14.59	33.01	PASS
Band2	9538	1	20.92	12.62	33.01	PASS
Band2	9538	2	21.29	12.99	33.01	PASS
Band2	9538	3	21.07	12.77	33.01	PASS
Band2	9538	4	21.38	13.08	33.01	PASS
Band2	9538	5	22.95	14.65	33.01	PASS
Band4	1312	1	22.61	14.41	30.00	PASS
Band4	1312	2	22.63	14.43	30.00	PASS
Band4	1312	3	22.23	14.03	30.00	PASS
Band4	1312	4	22.70	14.5	30.00	PASS
Band4	1312	5	22.82	14.62	30.00	PASS
Band4	1413	1	23.27	15.07	30.00	PASS
Band4	1413	2	23.30	15.1	30.00	PASS
Band4	1413	3	23.17	14.97	30.00	PASS
Band4	1413	4	23.35	15.15	30.00	PASS
Band4	1413	5	23.38	15.18	30.00	PASS
Band4	1513	1	22.70	14.5	30.00	PASS
Band4	1513	2	22.82	14.62	30.00	PASS
Band4	1513	3	22.61	14.41	30.00	PASS
Band4	1513	4	22.89	14.69	30.00	PASS
Band4	1513	5	22.79	14.59	30.00	PASS
Band5	4132	1	19.54	10.5	38.5	PASS
Band5	4132	2	19.89	10.85	38.5	PASS
Band5	4132	3	19.68	10.64	38.5	PASS
Band5	4132	4	19.48	10.44	38.5	PASS
Band5	4132	5	21.83	12.79	38.5	PASS
Band5	4183	1	19.90	10.86	38.5	PASS
Band5	4183	2	20.01	10.97	38.5	PASS
Band5	4183	3	19.74	10.7	38.5	PASS
Band5	4183	4	19.54	10.5	38.5	PASS
Band5	4183	5	22.12	13.08	38.5	PASS
Band5	4233	1	20.04	11	38.5	PASS
Band5	4233	2	20.15	11.11	38.5	PASS
Band5	4233	3	19.92	10.88	38.5	PASS
Band5	4233	4	19.74	10.7	38.5	PASS
Band5	4233	5	22.09	13.05	38.5	PASS

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

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

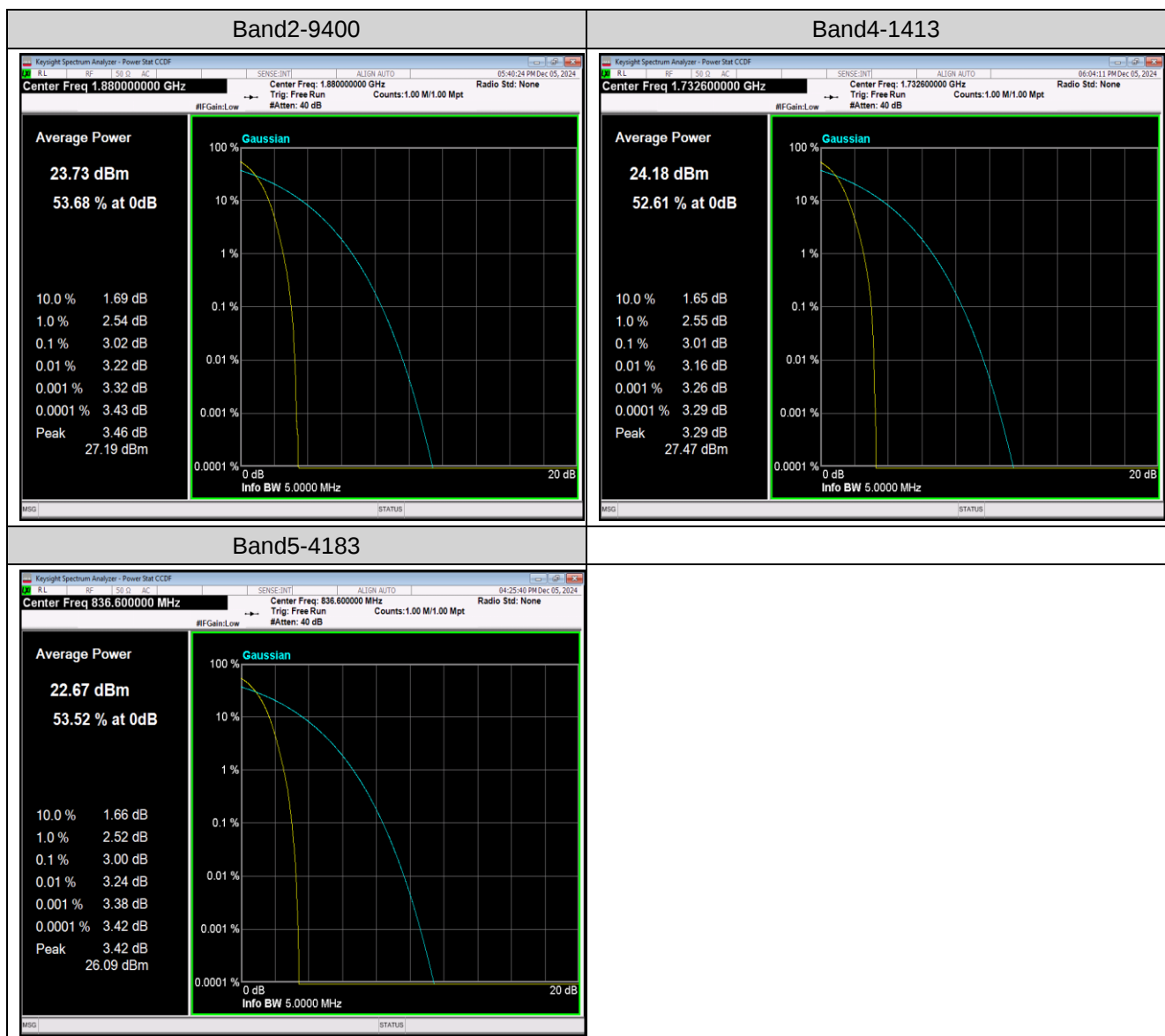
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.02	13	PASS
Band4	1413	3.01	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)

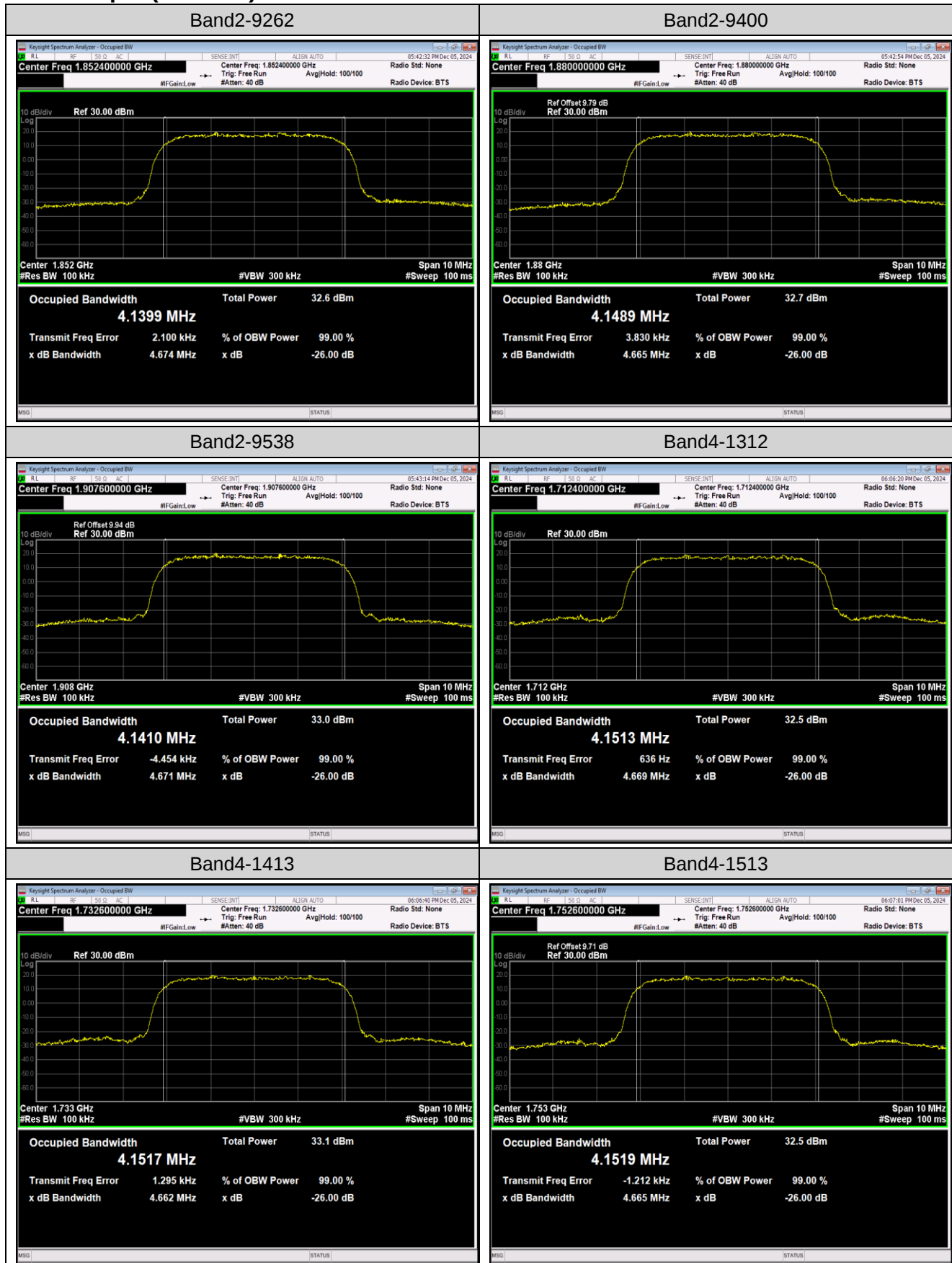


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1399	4.674	---	PASS
Band2	9400	4.1489	4.665	---	PASS
Band2	9538	4.1410	4.671	---	PASS
Band4	1312	4.1513	4.669	---	PASS
Band4	1413	4.1517	4.662	---	PASS
Band4	1513	4.1519	4.665	---	PASS
Band5	4132	4.1463	4.675	---	PASS
Band5	4183	4.1445	4.675	---	PASS
Band5	4233	4.1510	4.671	---	PASS

Test Graphs(WCDMA)



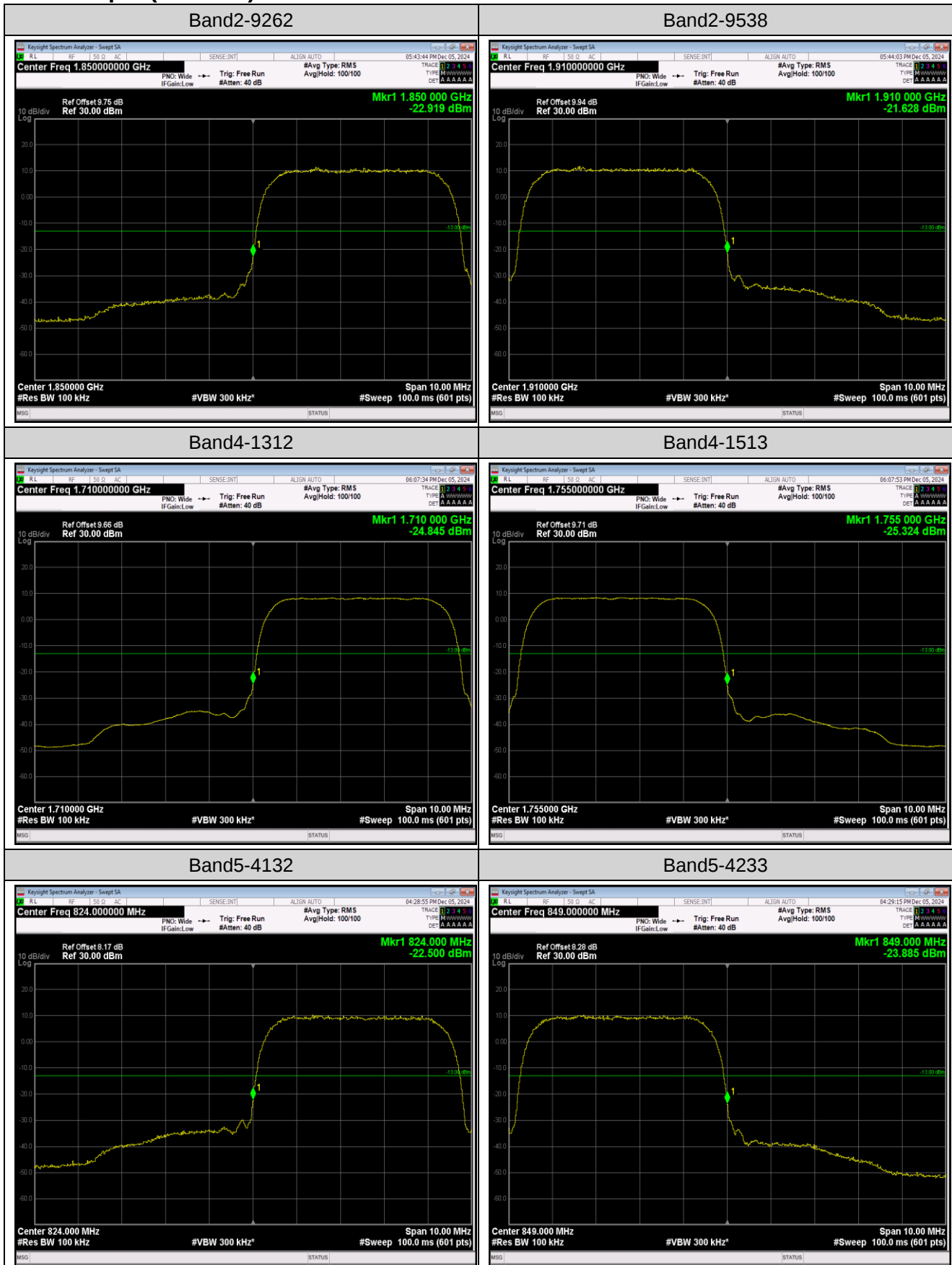


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-22.92	-13	PASS
Band2	9538	1910.00	-21.63	-13	PASS
Band4	1312	1710.00	-24.85	-13	PASS
Band4	1513	1755.00	-25.32	-13	PASS
Band5	4132	824.00	-22.50	-13	PASS
Band5	4233	849.00	-23.88	-13	PASS

Test Graphs(WCDMA)



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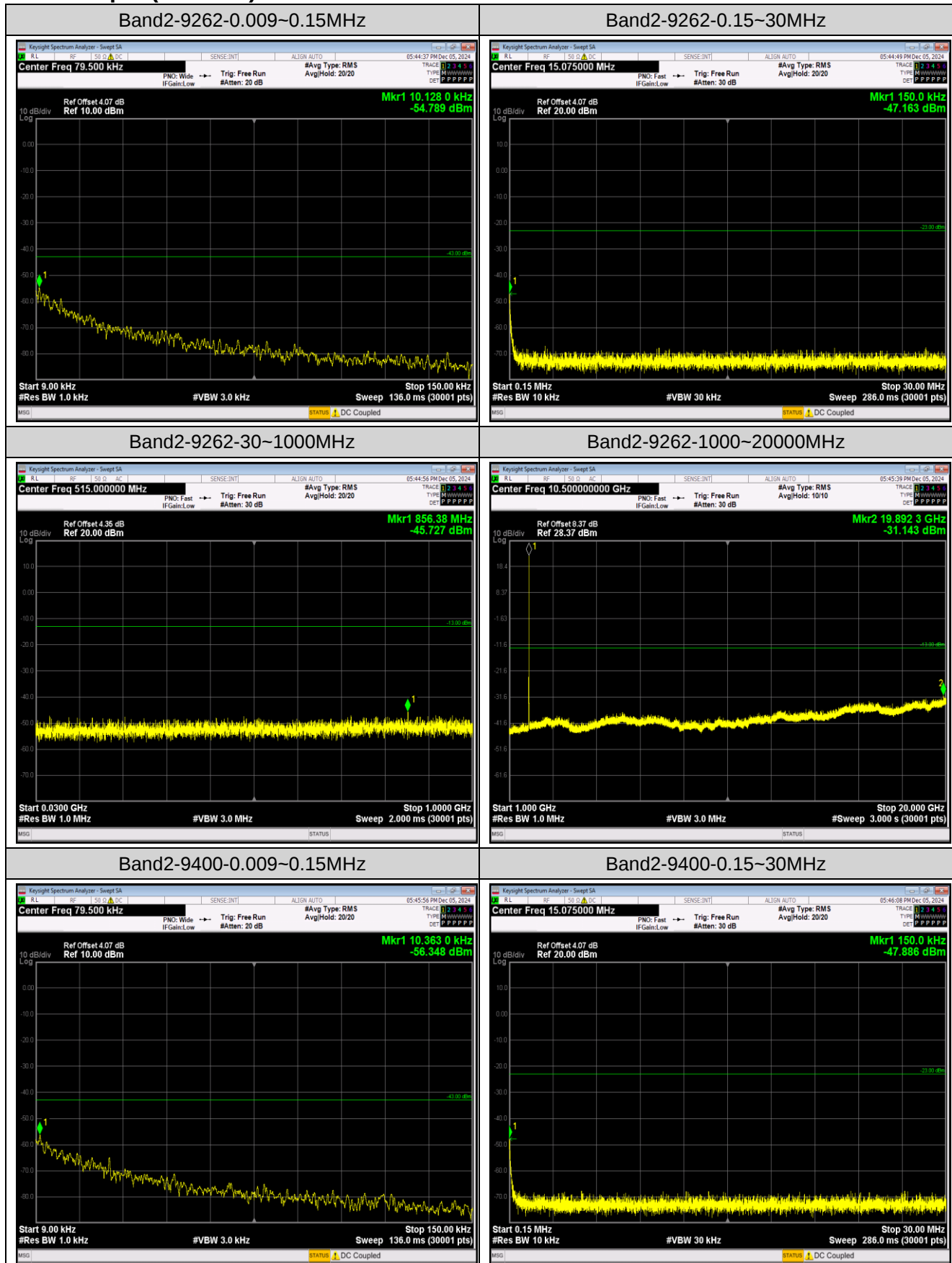
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AppendixE:Conducted SpuriousEmission

Test Result(WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-54.79	-43	PASS
Band2	9262	0.15~30MHz	0.15	-47.16	-23	PASS
Band2	9262	30~1000MHz	856.38	-45.73	-13	PASS
Band2	9262	1000~20000MHz	19892.33	-31.14	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-56.35	-43	PASS
Band2	9400	0.15~30MHz	0.15	-47.89	-23	PASS
Band2	9400	30~1000MHz	508.08	-46.25	-13	PASS
Band2	9400	1000~20000MHz	19987.33	-31.34	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-57.11	-43	PASS
Band2	9538	0.15~30MHz	0.15	-47.18	-23	PASS
Band2	9538	30~1000MHz	406.13	-47.39	-13	PASS
Band2	9538	1000~20000MHz	19925.9	-31.01	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-56.03	-43	PASS
Band4	1312	0.15~30MHz	0.16	-48.31	-23	PASS
Band4	1312	30~1000MHz	677.48	-46.71	-13	PASS
Band4	1312	1000~20000MHz	19944.27	-30.8	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-56.24	-43	PASS
Band4	1413	0.15~30MHz	0.15	-47.4	-23	PASS
Band4	1413	30~1000MHz	764.9	-45.45	-13	PASS
Band4	1413	1000~20000MHz	19966.43	-31.49	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-58.38	-43	PASS
Band4	1513	0.15~30MHz	0.15	-48.46	-23	PASS
Band4	1513	30~1000MHz	802.09	-46.48	-13	PASS
Band4	1513	1000~20000MHz	19626.97	-30.96	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-54.64	-33	PASS
Band5	4132	0.15~30MHz	0.15	-47.7	-13	PASS
Band5	4132	30~1000MHz	490.78	-55.65	-13	PASS
Band5	4132	1000~10000MHz	5898.4	-37.45	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-56.74	-33	PASS
Band5	4183	0.15~30MHz	0.17	-47.6	-13	PASS
Band5	4183	30~1000MHz	938.7	-54.94	-13	PASS
Band5	4183	1000~10000MHz	5905.9	-37.41	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-57.14	-33	PASS
Band5	4233	0.15~30MHz	0.15	-49.5	-13	PASS
Band5	4233	30~1000MHz	971.84	-55.42	-13	PASS
Band5	4233	1000~10000MHz	5929.6	-36.28	-13	PASS

Test Graphs(WCDMA)

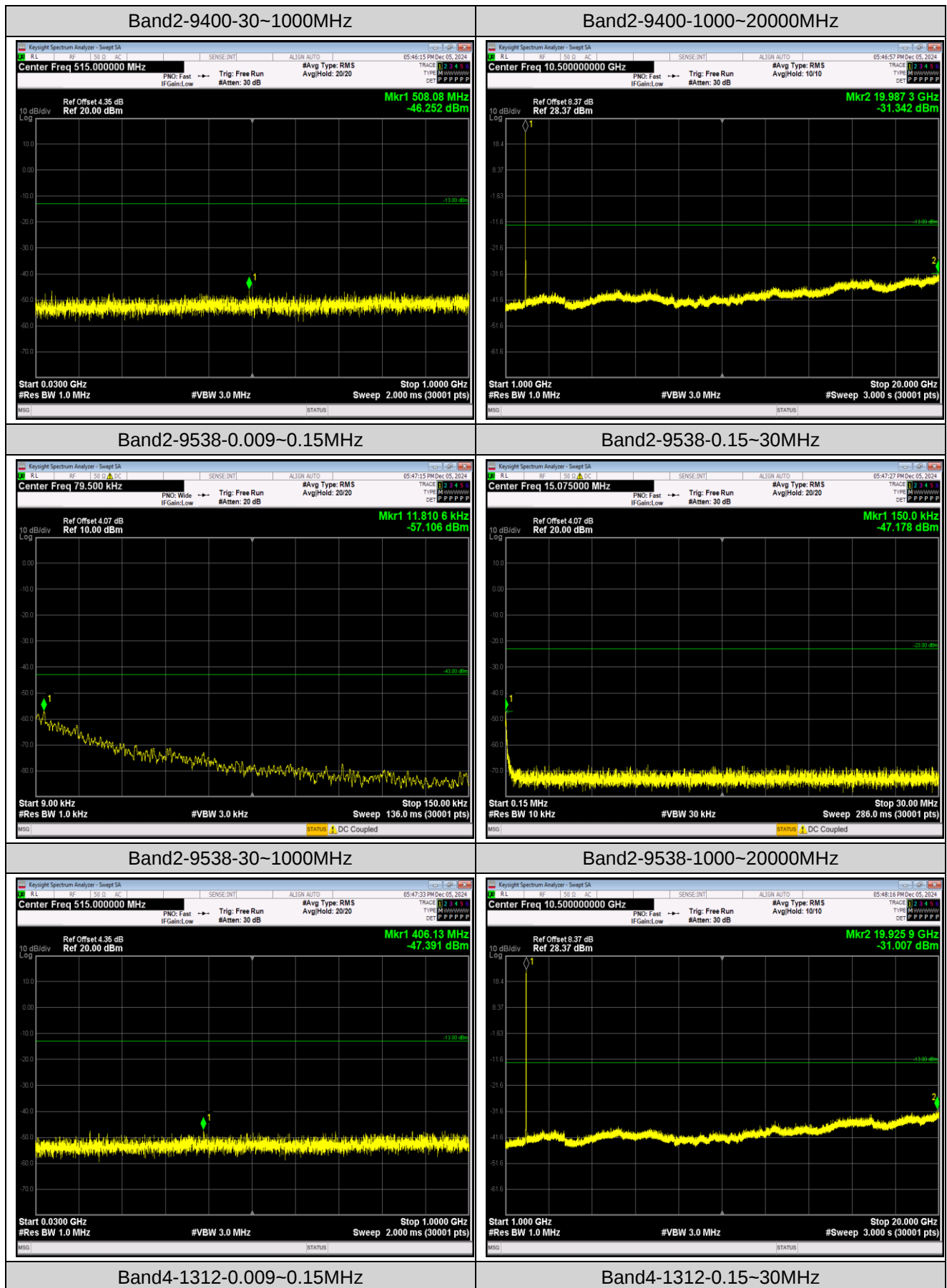


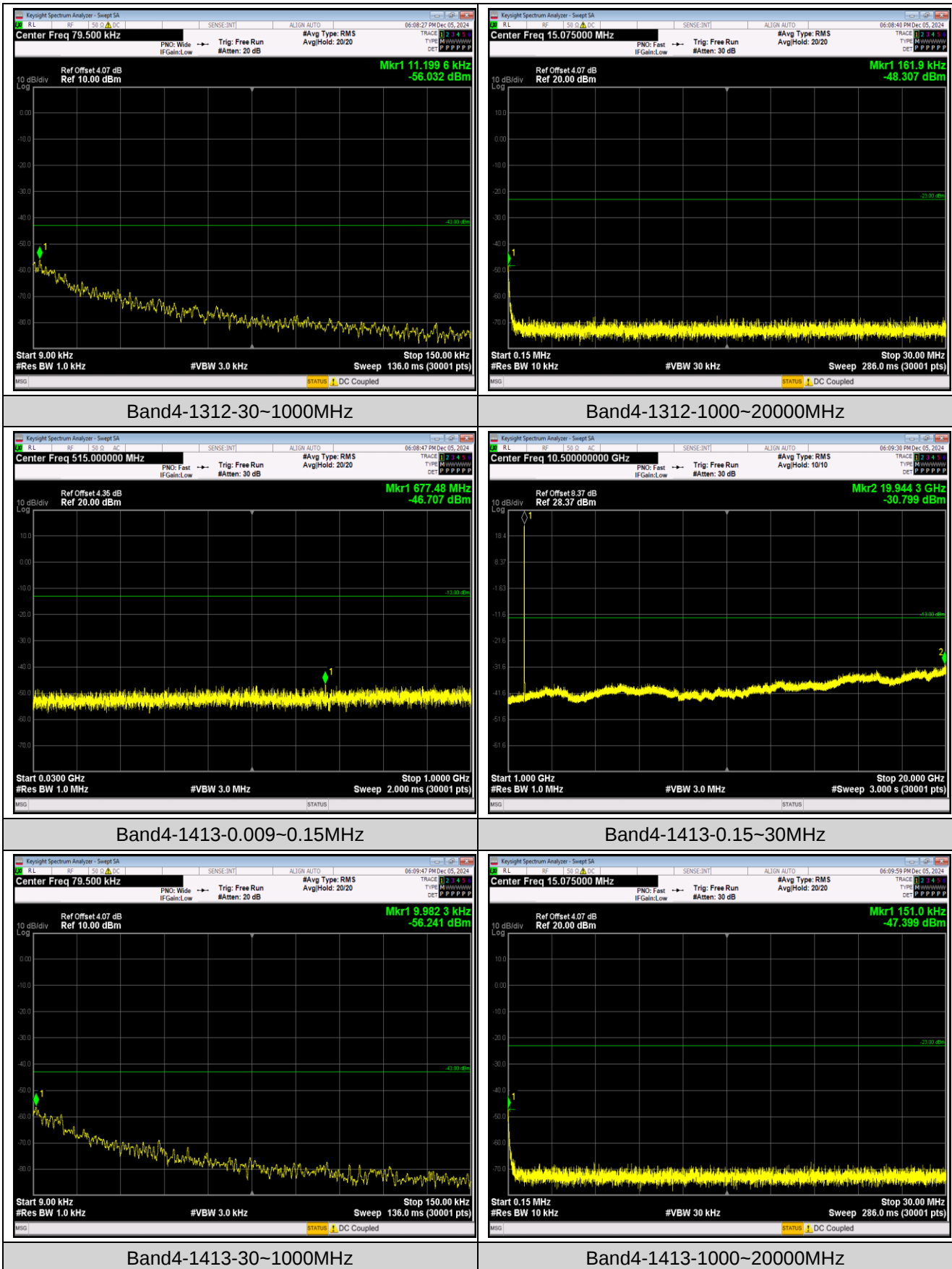
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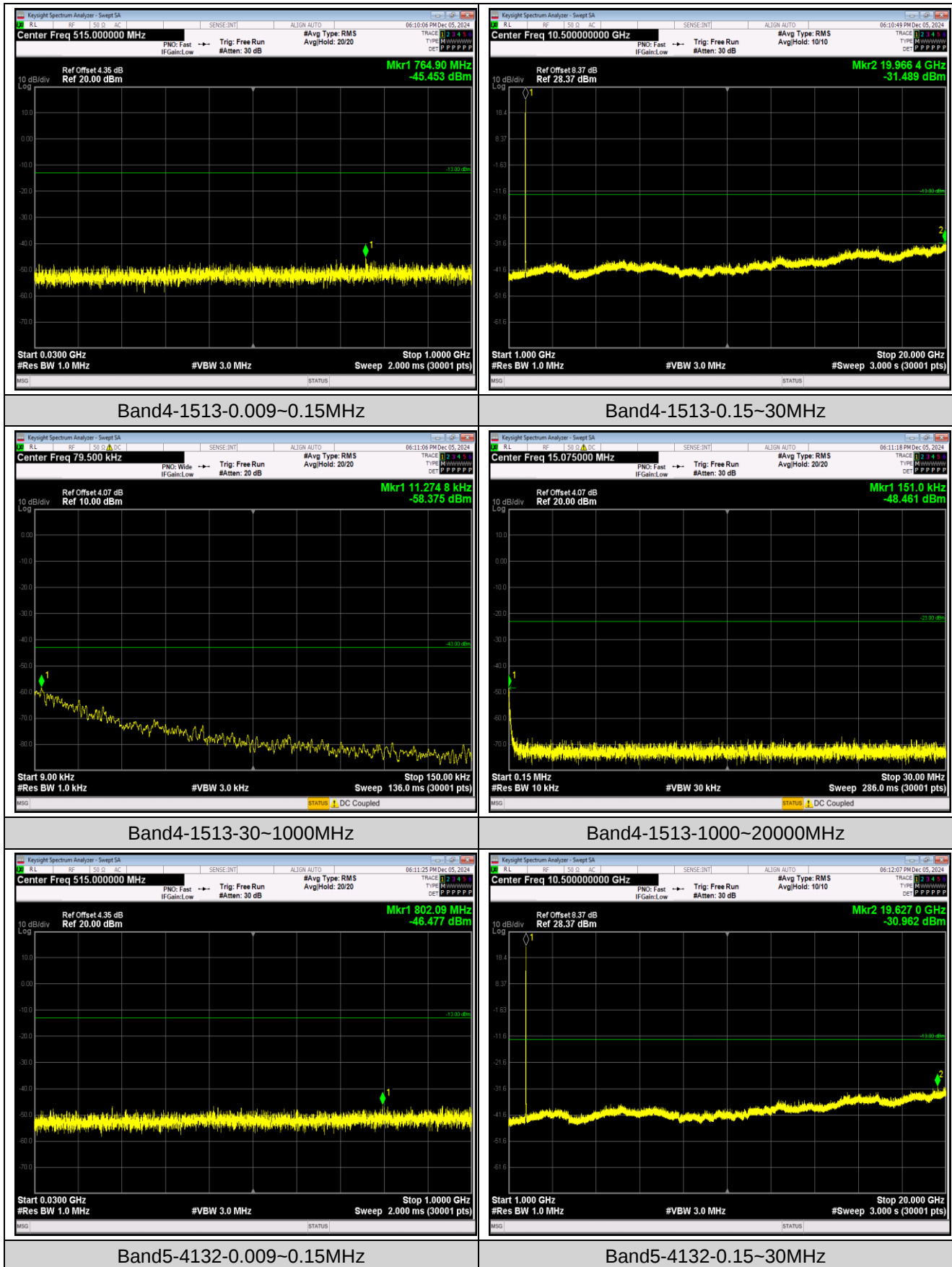
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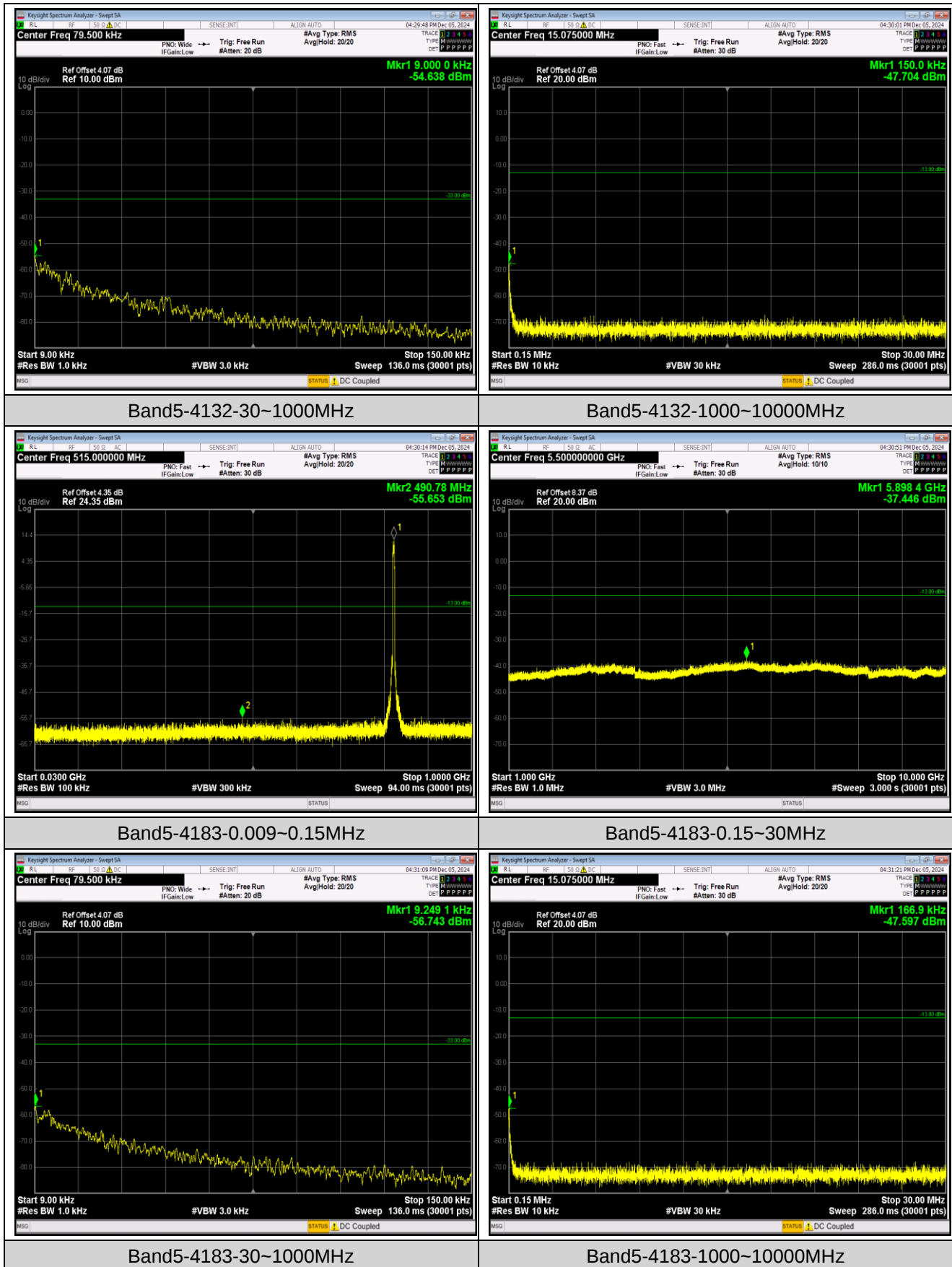
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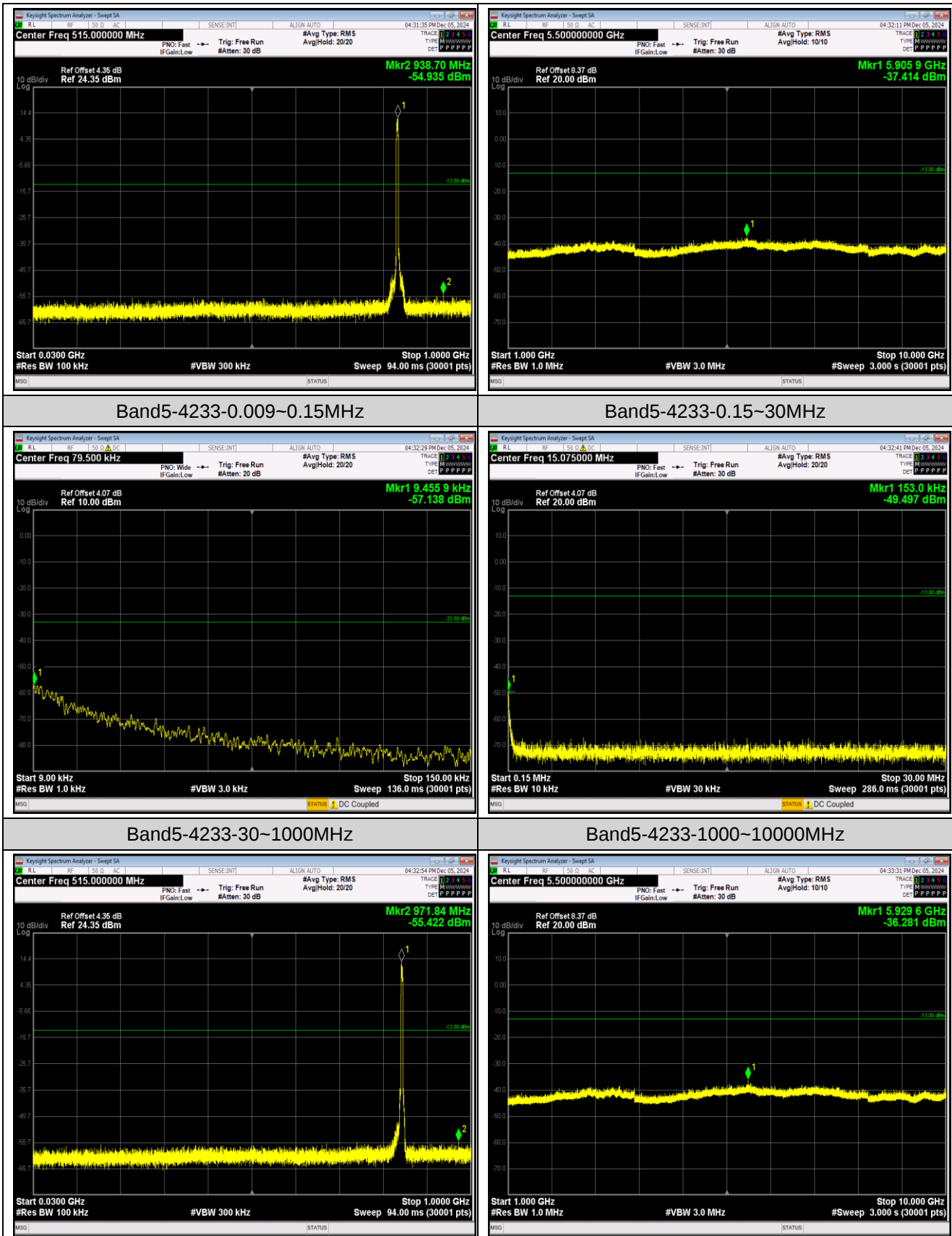
Project No.: JYTSZR2411084











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	-0.82	-0.000980	±2.5	Pass
	-20	-0.51	-0.000610		
	-10	3.45	0.004124		
	0	0.06	0.000072		
	10	0.28	0.000335		
	20	-1.29	-0.001542		
	30	-0.07	-0.000084		
	40	0.12	0.000143		
	50	-1.43	-0.001709		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-1.50	-0.001793	±2.5	Pass
	3.85	-0.56	-0.000669		
	4.40	0.63	0.000753		
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	0.48	0.000277	Within authorized band for BAND IV	Pass
	-20	0.04	0.000023		
	-10	-8.53	-0.004923		
	0	-0.49	-0.000283		
	10	-4.85	-0.002799		
	20	7.03	0.004057		
	30	3.08	0.001778		
	40	3.13	0.001807		
	50	-2.73	-0.001576		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	11.81	0.006816	Within authorized band for BAND IV	Pass
	3.85	4.68	0.002701		
	4.40	6.09	0.003515		
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	-2.05	-0.001090	Within authorized band for BAND II	Pass
	-20	-4.08	-0.002170		
	-10	0.52	0.000277		
	0	-4.99	-0.002654		
	10	4.19	0.002229		
	20	-4.26	-0.002266		
	30	2.70	0.001436		
	40	-1.60	-0.000851		
	50	-7.77	-0.004133		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	1.42	0.000755	Within authorized band for BAND II	Pass
	3.85	2.75	0.001463		
	4.40	-1.87	-0.000995		
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

