



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	23.39	23.95	33.01	PASS
Band2	TestMode	9262	23.31	23.87	33.01	PASS
Band2	TestMode	9400	23.68	24.24	33.01	PASS
Band2	Voice	9400	23.67	24.23	33.01	PASS
Band2	Voice	9538	23.62	24.18	33.01	PASS
Band2	TestMode	9538	23.66	24.22	33.01	PASS
Band4	TestMode	1312	23.27	24.99	30.00	PASS
Band4	Voice	1312	23.31	25.03	30.00	PASS
Band4	TestMode	1413	23.14	24.86	30.00	PASS
Band4	Voice	1413	23.14	24.86	30.00	PASS
Band4	TestMode	1513	23.30	25.02	30.00	PASS
Band4	Voice	1513	23.30	25.02	30.00	PASS
Band5	TestMode	4132	24.04	22.81	38.45	PASS
Band5	Voice	4132	24.08	22.85	38.45	PASS
Band5	Voice	4183	24.05	22.82	38.45	PASS
Band5	TestMode	4183	24.14	22.91	38.45	PASS
Band5	Voice	4233	23.85	22.62	38.45	PASS
Band5	TestMode	4233	24.10	22.87	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.87	23.43	33.01	PASS
Band2	9262	2	22.26	22.82	33.01	PASS
Band2	9262	3	22.30	22.86	33.01	PASS
Band2	9262	4	22.28	22.84	33.01	PASS
Band2	9400	1	23.40	23.96	33.01	PASS
Band2	9400	2	22.78	23.34	33.01	PASS
Band2	9400	3	22.87	23.43	33.01	PASS
Band2	9400	4	22.81	23.37	33.01	PASS
Band2	9538	1	23.26	23.82	33.01	PASS
Band2	9538	2	22.66	23.22	33.01	PASS
Band2	9538	3	22.72	23.28	33.01	PASS
Band2	9538	4	22.68	23.24	33.01	PASS
Band4	1312	1	23.23	24.95	30.00	PASS



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Band4	1312	2	22.73	24.45	30.00	PASS
Band4	1312	3	22.76	24.48	30.00	PASS
Band4	1312	4	22.70	24.42	30.00	PASS
Band4	1413	1	22.92	24.64	30.00	PASS
Band4	1413	2	22.40	24.12	30.00	PASS
Band4	1413	3	22.42	24.14	30.00	PASS
Band4	1413	4	22.36	24.08	30.00	PASS
Band4	1513	1	23.22	24.94	30.00	PASS
Band4	1513	2	22.63	24.35	30.00	PASS
Band4	1513	3	22.63	24.35	30.00	PASS
Band4	1513	4	22.62	24.34	30.00	PASS
Band5	4132	1	24.09	22.86	38.5	PASS
Band5	4132	2	23.55	22.32	38.5	PASS
Band5	4132	3	23.56	22.33	38.5	PASS
Band5	4132	4	23.54	22.31	38.5	PASS
Band5	4183	1	24.17	22.94	38.5	PASS
Band5	4183	2	23.64	22.41	38.5	PASS
Band5	4183	3	23.66	22.43	38.5	PASS
Band5	4183	4	23.62	22.39	38.5	PASS
Band5	4233	1	24.04	22.81	38.5	PASS
Band5	4233	2	23.52	22.29	38.5	PASS
Band5	4233	3	23.53	22.3	38.5	PASS
Band5	4233	4	23.51	22.28	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	20.81	21.37	33.01	PASS
Band2	9262	2	21.30	21.86	33.01	PASS
Band2	9262	3	21.80	22.36	33.01	PASS
Band2	9262	4	20.84	21.4	33.01	PASS
Band2	9262	5	22.80	23.36	33.01	PASS
Band2	9400	1	21.42	21.98	33.01	PASS
Band2	9400	2	21.82	22.38	33.01	PASS
Band2	9400	3	22.34	22.9	33.01	PASS
Band2	9400	4	21.36	21.92	33.01	PASS
Band2	9400	5	23.36	23.92	33.01	PASS
Band2	9538	1	21.25	21.81	33.01	PASS
Band2	9538	2	21.68	22.24	33.01	PASS
Band2	9538	3	22.19	22.75	33.01	PASS

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Band2	9538	4	21.23	21.79	33.01	PASS
Band2	9538	5	23.22	23.78	33.01	PASS
Band4	1312	1	21.29	23.01	30.00	PASS
Band4	1312	2	21.79	23.51	30.00	PASS
Band4	1312	3	22.24	23.96	30.00	PASS
Band4	1312	4	21.30	23.02	30.00	PASS
Band4	1312	5	23.28	25	30.00	PASS
Band4	1413	1	20.96	22.68	30.00	PASS
Band4	1413	2	21.42	23.14	30.00	PASS
Band4	1413	3	21.92	23.64	30.00	PASS
Band4	1413	4	20.95	22.67	30.00	PASS
Band4	1413	5	22.95	24.67	30.00	PASS
Band4	1513	1	21.18	22.9	30.00	PASS
Band4	1513	2	21.69	23.41	30.00	PASS
Band4	1513	3	22.19	23.91	30.00	PASS
Band4	1513	4	21.21	22.93	30.00	PASS
Band4	1513	5	23.17	24.89	30.00	PASS
Band5	4132	1	22.12	20.89	38.5	PASS
Band5	4132	2	22.56	21.33	38.5	PASS
Band5	4132	3	23.08	21.85	38.5	PASS
Band5	4132	4	22.13	20.9	38.5	PASS
Band5	4132	5	24.08	22.85	38.5	PASS
Band5	4183	1	22.18	20.95	38.5	PASS
Band5	4183	2	22.63	21.4	38.5	PASS
Band5	4183	3	23.16	21.93	38.5	PASS
Band5	4183	4	22.20	20.97	38.5	PASS
Band5	4183	5	24.15	22.92	38.5	PASS
Band5	4233	1	22.08	20.85	38.5	PASS
Band5	4233	2	22.53	21.3	38.5	PASS
Band5	4233	3	23.05	21.82	38.5	PASS
Band5	4233	4	22.12	20.89	38.5	PASS
Band5	4233	5	24.04	22.81	38.5	PASS

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

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

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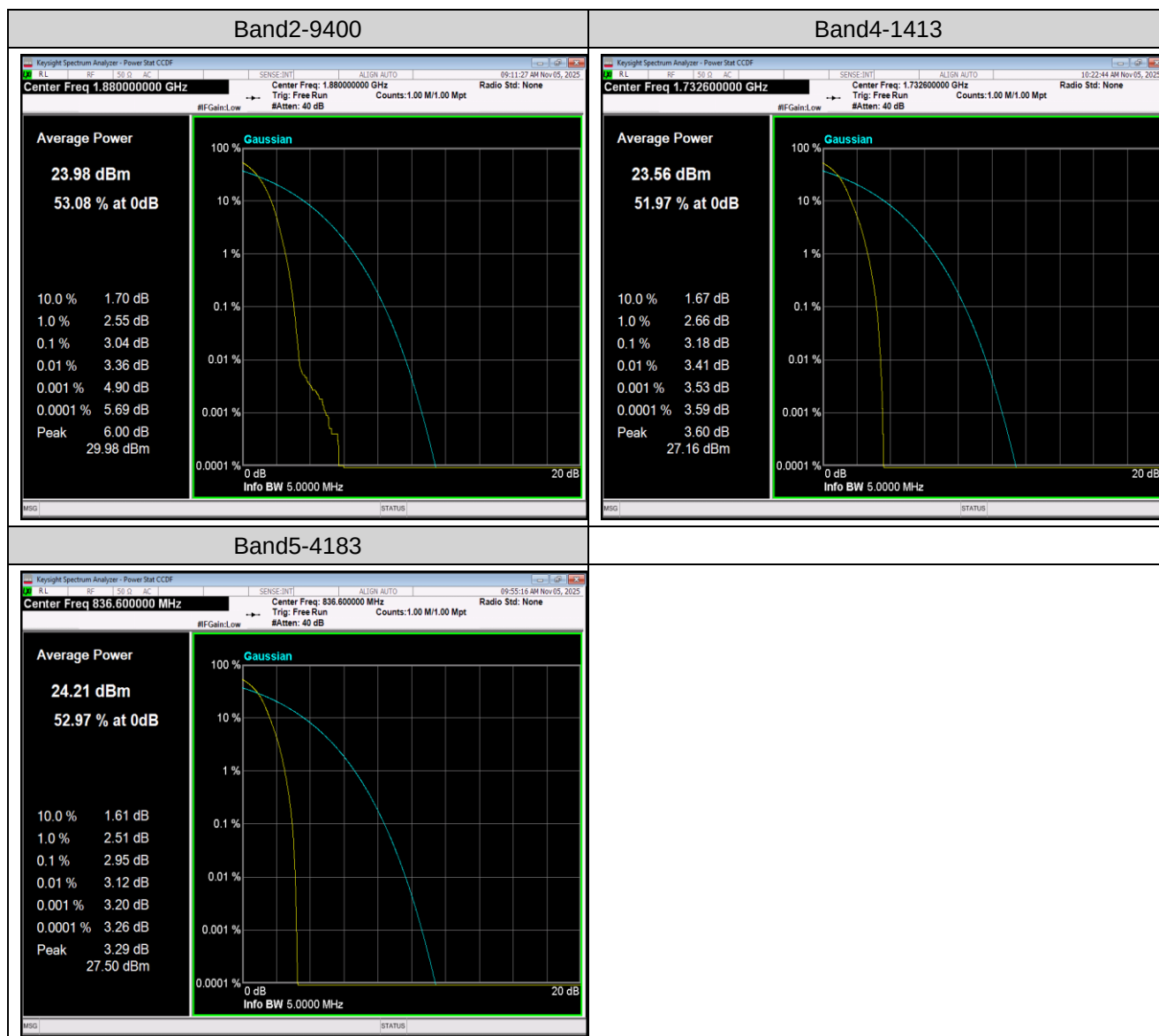
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.04	13	PASS
Band4	1413	3.18	13	PASS
Band5	4183	2.95	13	PASS

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

Test Graphs(WCDMA)



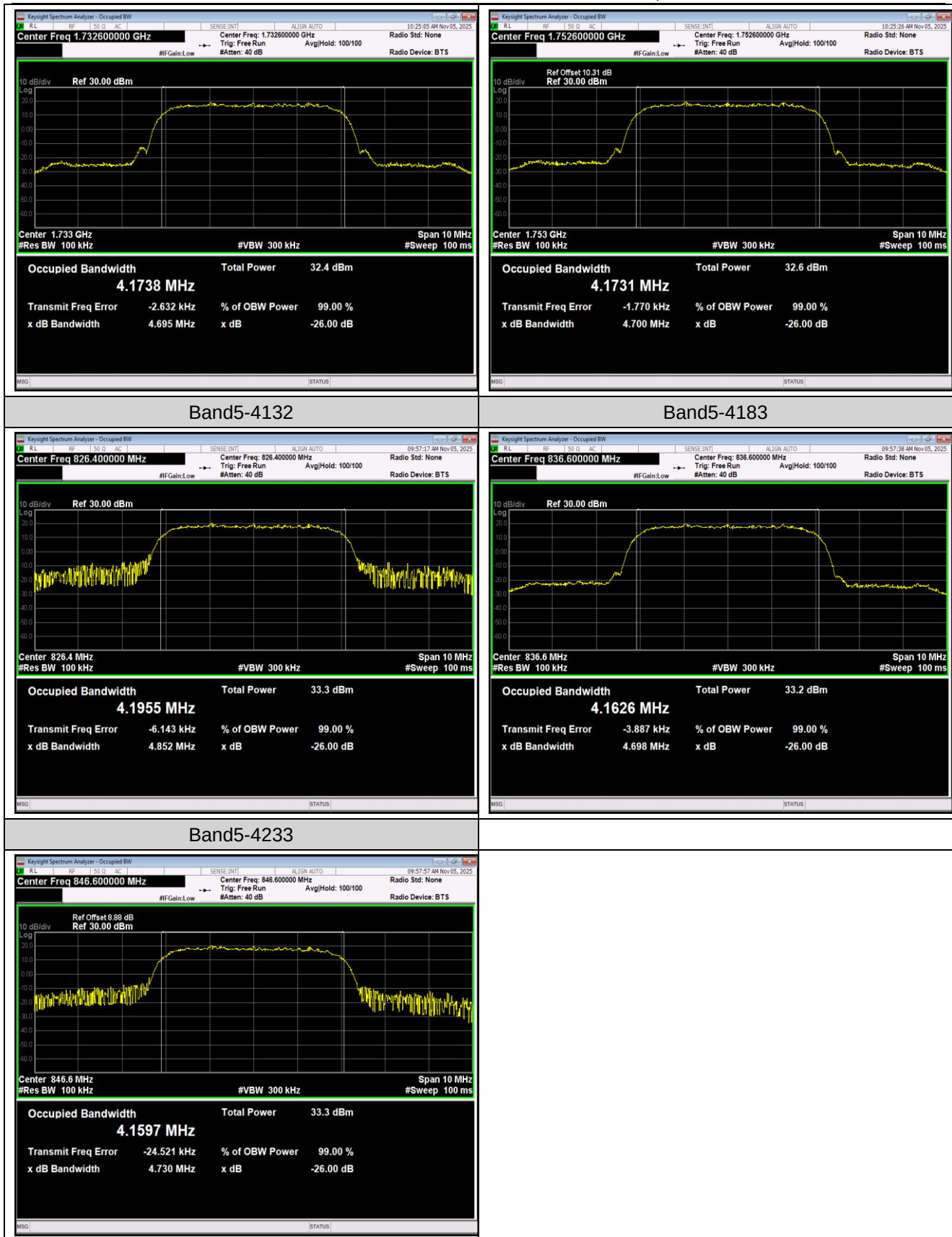
**AppendixC:26dB Bandwidth andOccupied Bandwidth****Test Result(WCDMA)**

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1670	4.699	---	PASS
Band2	9400	4.1666	4.694	---	PASS
Band2	9538	4.1677	4.705	---	PASS
Band4	1312	4.1757	4.704	---	PASS
Band4	1413	4.1738	4.695	---	PASS
Band4	1513	4.1731	4.700	---	PASS
Band5	4132	4.1955	4.852	---	PASS
Band5	4183	4.1626	4.698	---	PASS
Band5	4233	4.1597	4.730	---	PASS



Test Graphs(WCDMA)







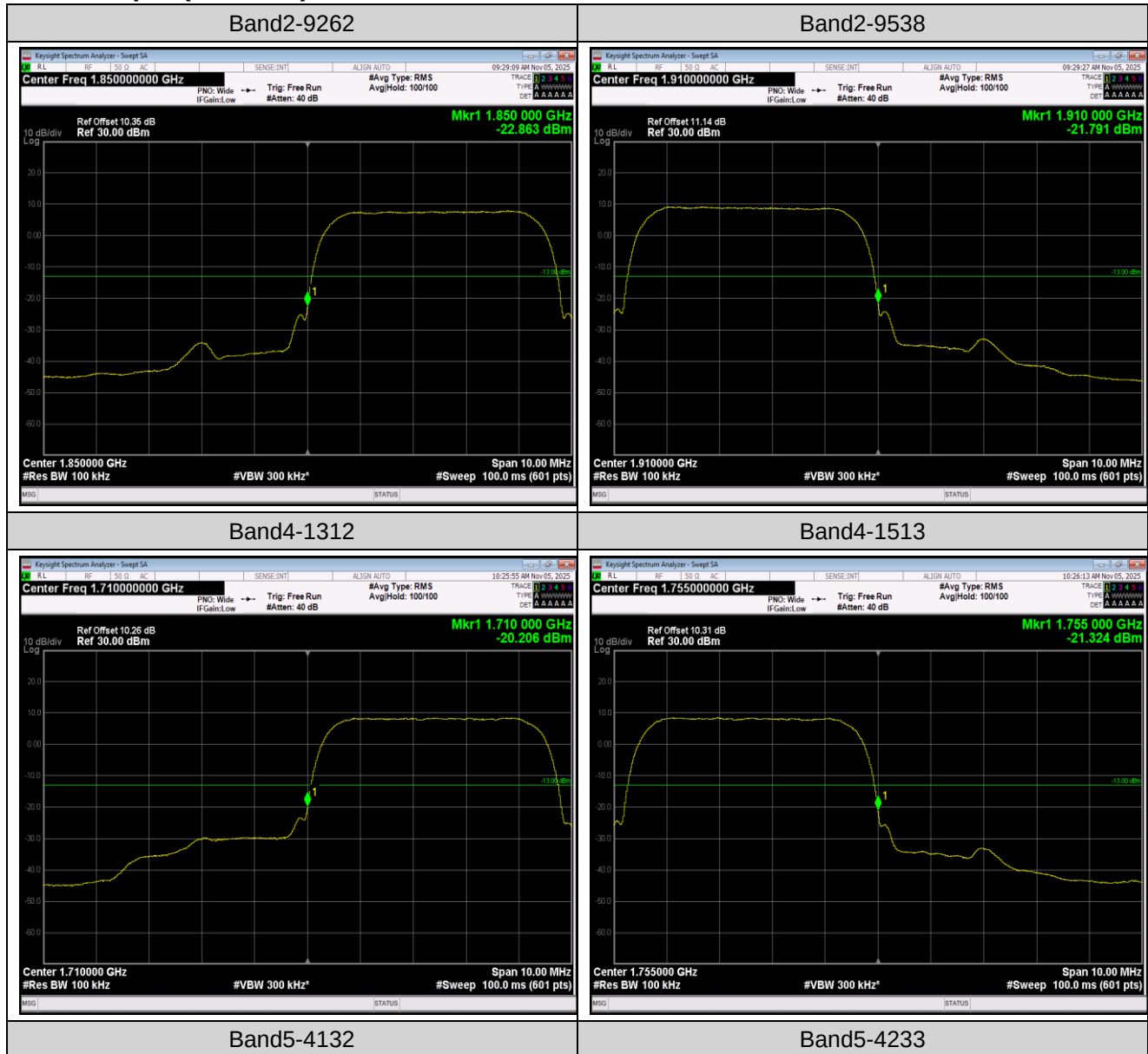
AppendixD:Band Edge

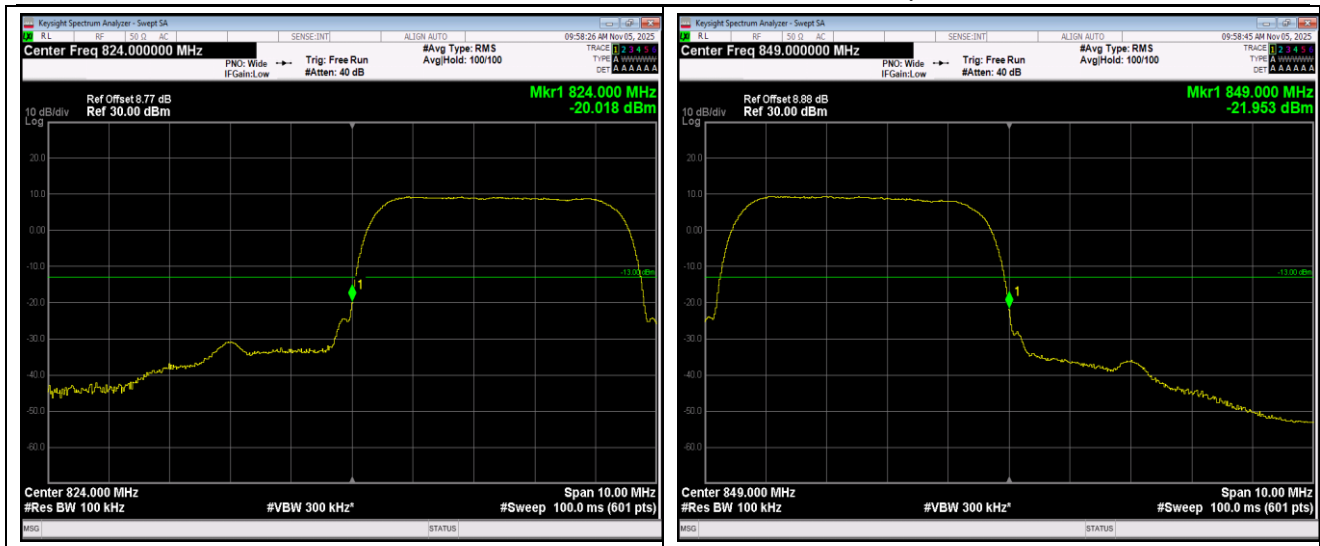
Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-22.86	-13	PASS
Band2	9538	1910.00	-21.79	-13	PASS
Band4	1312	1710.00	-20.21	-13	PASS
Band4	1513	1755.00	-21.32	-13	PASS
Band5	4132	824.00	-20.02	-13	PASS
Band5	4233	849.00	-21.95	-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	-56.72	-43	PASS
Band2	9262	0.15~30MHz	0.15	-46	-23	PASS
Band2	9262	30~1000MHz	383.99	-46.08	-13	PASS
Band2	9262	1000~20000MHz	19939.2	-30.75	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-55.38	-43	PASS
Band2	9400	0.15~30MHz	0.15	-47.83	-23	PASS
Band2	9400	30~1000MHz	642.46	-46.01	-13	PASS
Band2	9400	1000~20000MHz	19967.07	-30.92	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-56.86	-43	PASS
Band2	9538	0.15~30MHz	0.16	-47.25	-23	PASS
Band2	9538	30~1000MHz	924.57	-45.74	-13	PASS
Band2	9538	1000~20000MHz	19894.87	-30.78	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-56.17	-43	PASS
Band4	1312	0.15~30MHz	0.17	-49.57	-23	PASS
Band4	1312	30~1000MHz	918.42	-46.14	-13	PASS
Band4	1312	1000~20000MHz	19994.3	-30.75	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-56.14	-43	PASS
Band4	1413	0.15~30MHz	0.16	-46.77	-23	PASS
Band4	1413	30~1000MHz	866.79	-46.69	-13	PASS
Band4	1413	1000~20000MHz	19851.17	-30.62	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-56.86	-43	PASS
Band4	1513	0.15~30MHz	0.15	-47.71	-23	PASS
Band4	1513	30~1000MHz	821.62	-46.39	-13	PASS

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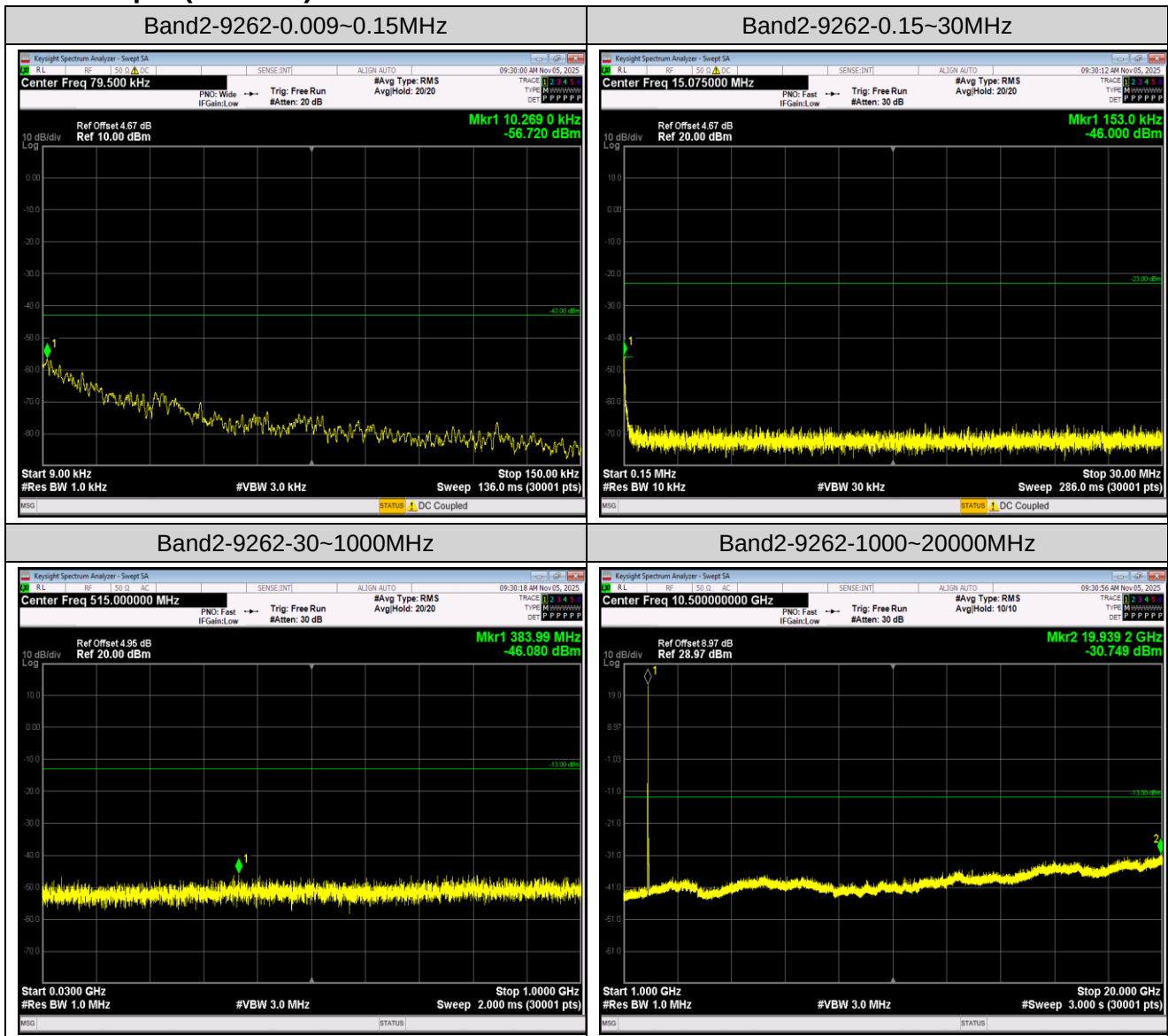
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Band4	1513	1000~20000MHz	19946.17	-30.24	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-55.46	-33	PASS
Band5	4132	0.15~30MHz	0.16	-48.55	-13	PASS
Band5	4132	30~1000MHz	446.26	-55.9	-13	PASS
Band5	4132	1000~10000MHz	5880.4	-36.98	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-55.34	-33	PASS
Band5	4183	0.15~30MHz	0.16	-47.63	-13	PASS
Band5	4183	30~1000MHz	506.46	-54.72	-13	PASS
Band5	4183	1000~10000MHz	5899.9	-37.26	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-55.73	-33	PASS
Band5	4233	0.15~30MHz	0.17	-48.38	-13	PASS
Band5	4233	30~1000MHz	452.14	-55.36	-13	PASS
Band5	4233	1000~10000MHz	5912.5	-36.76	-13	PASS

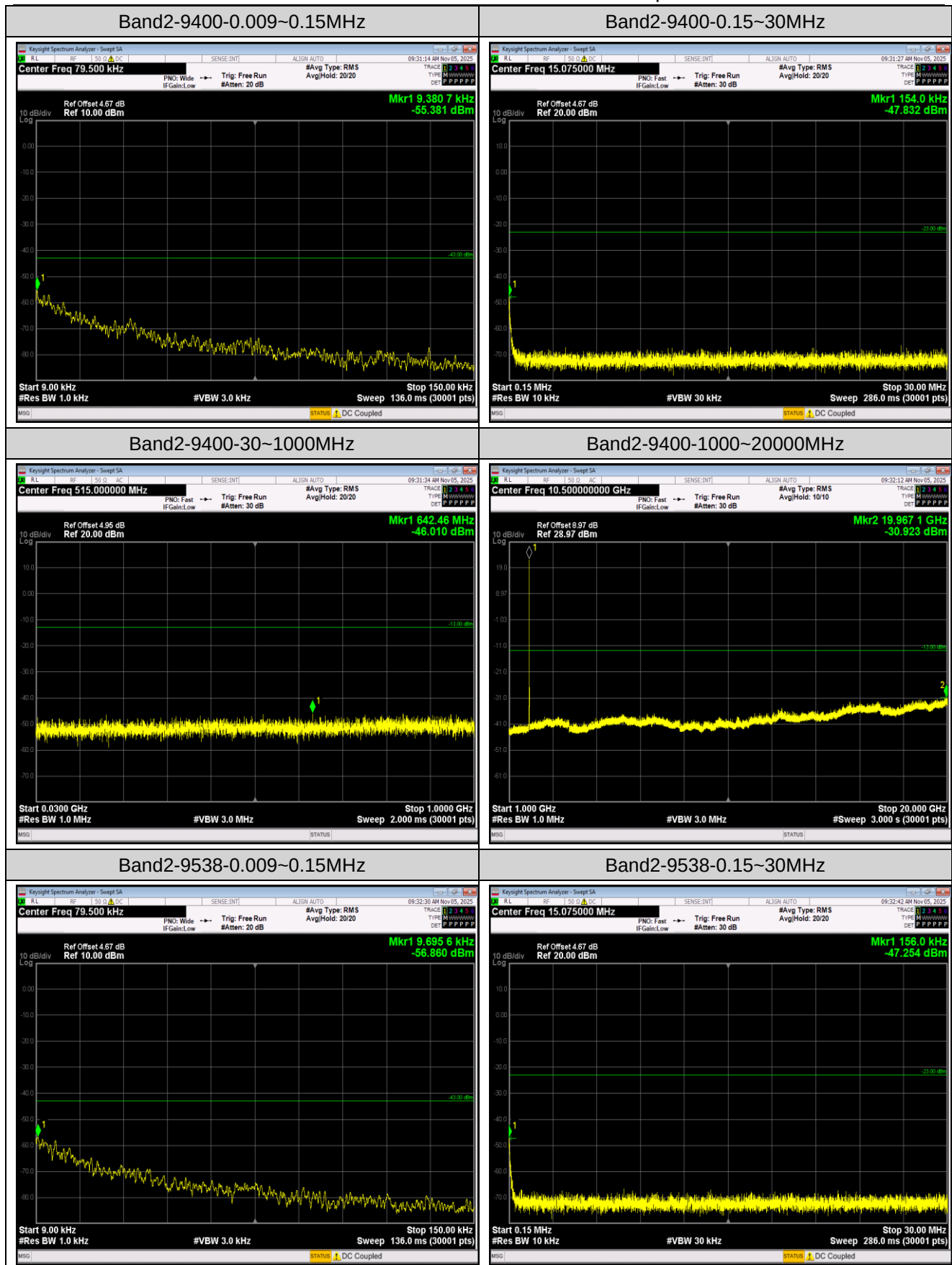
Test Graphs(WCDMA)

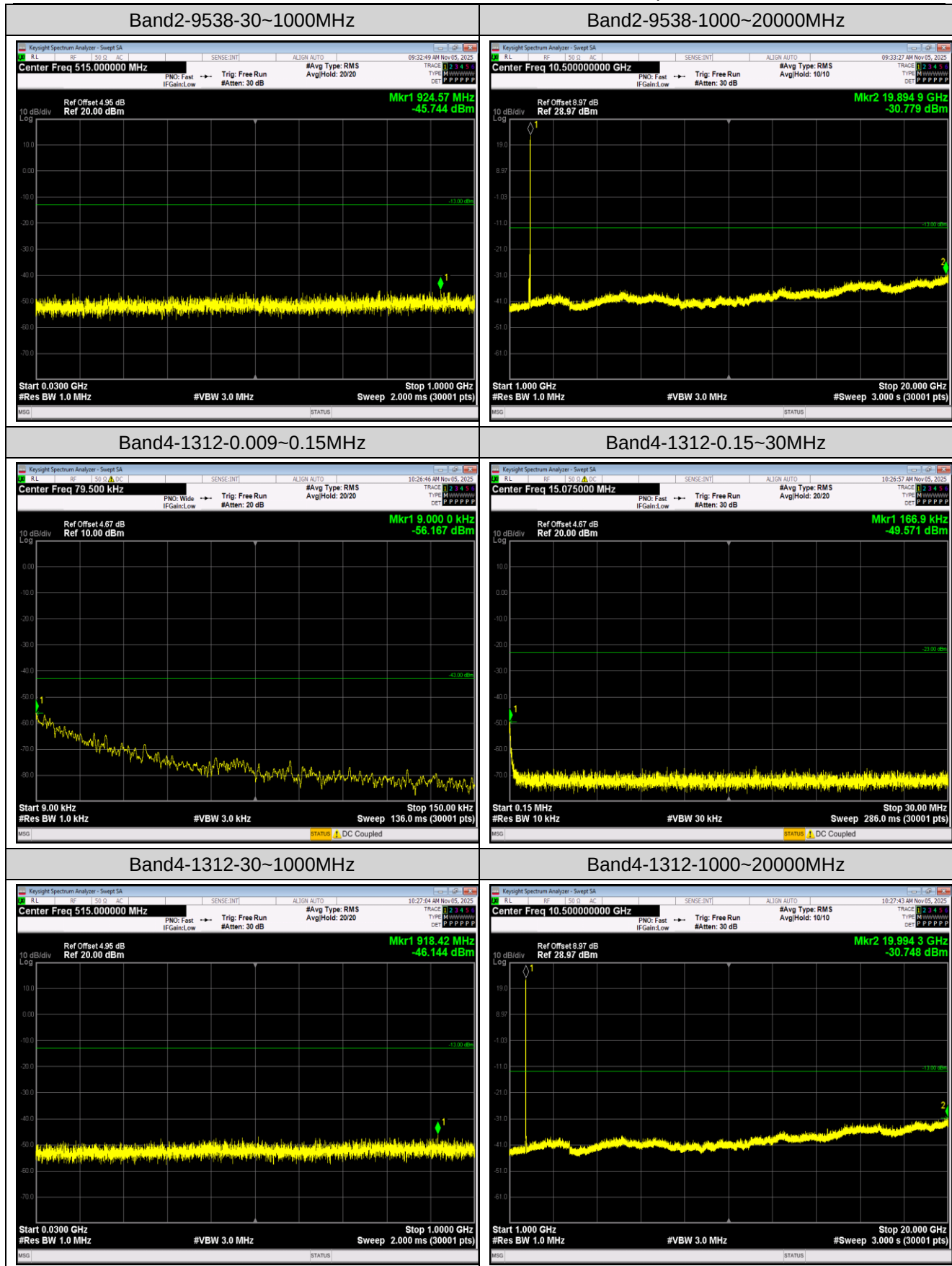


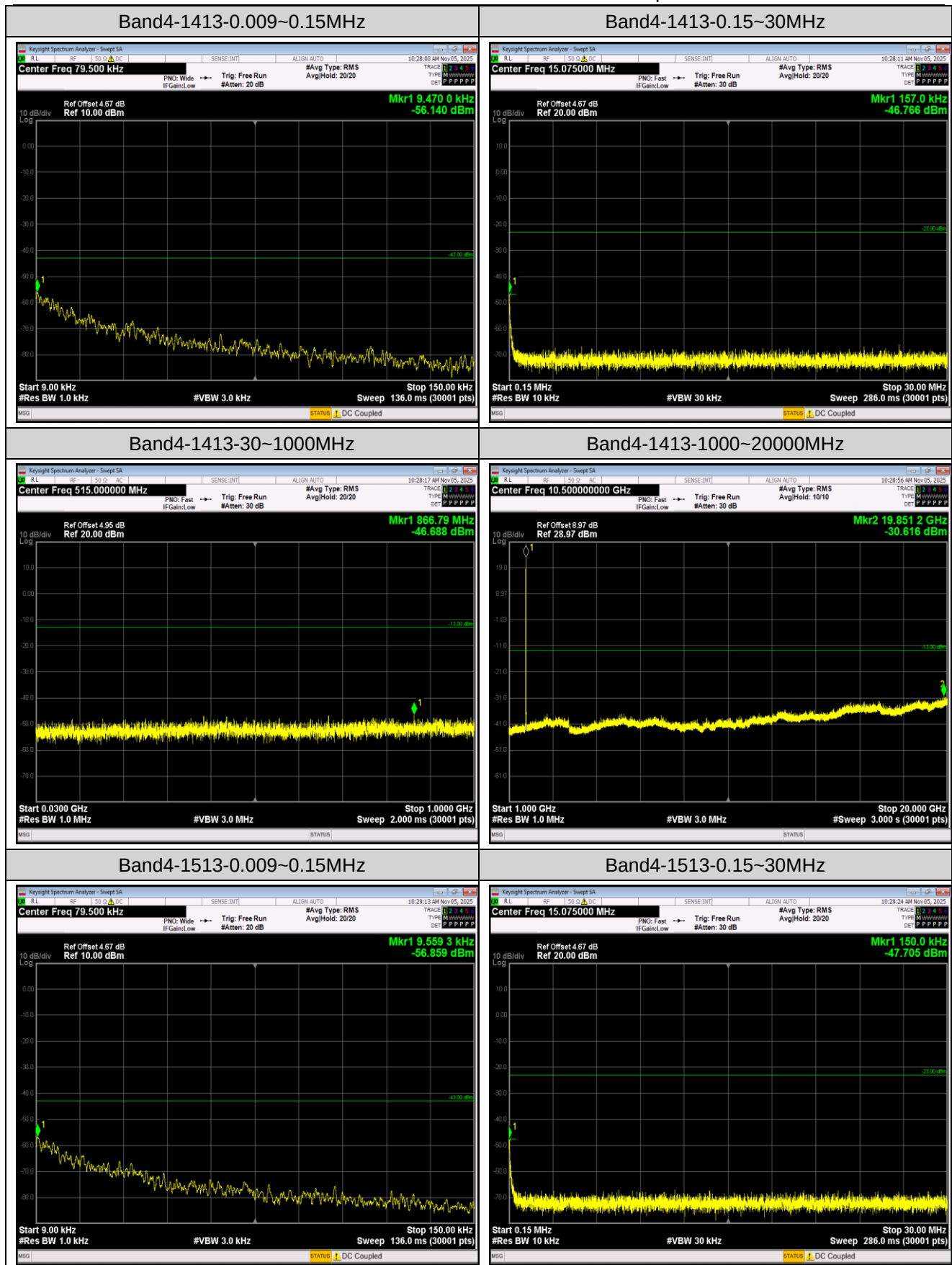
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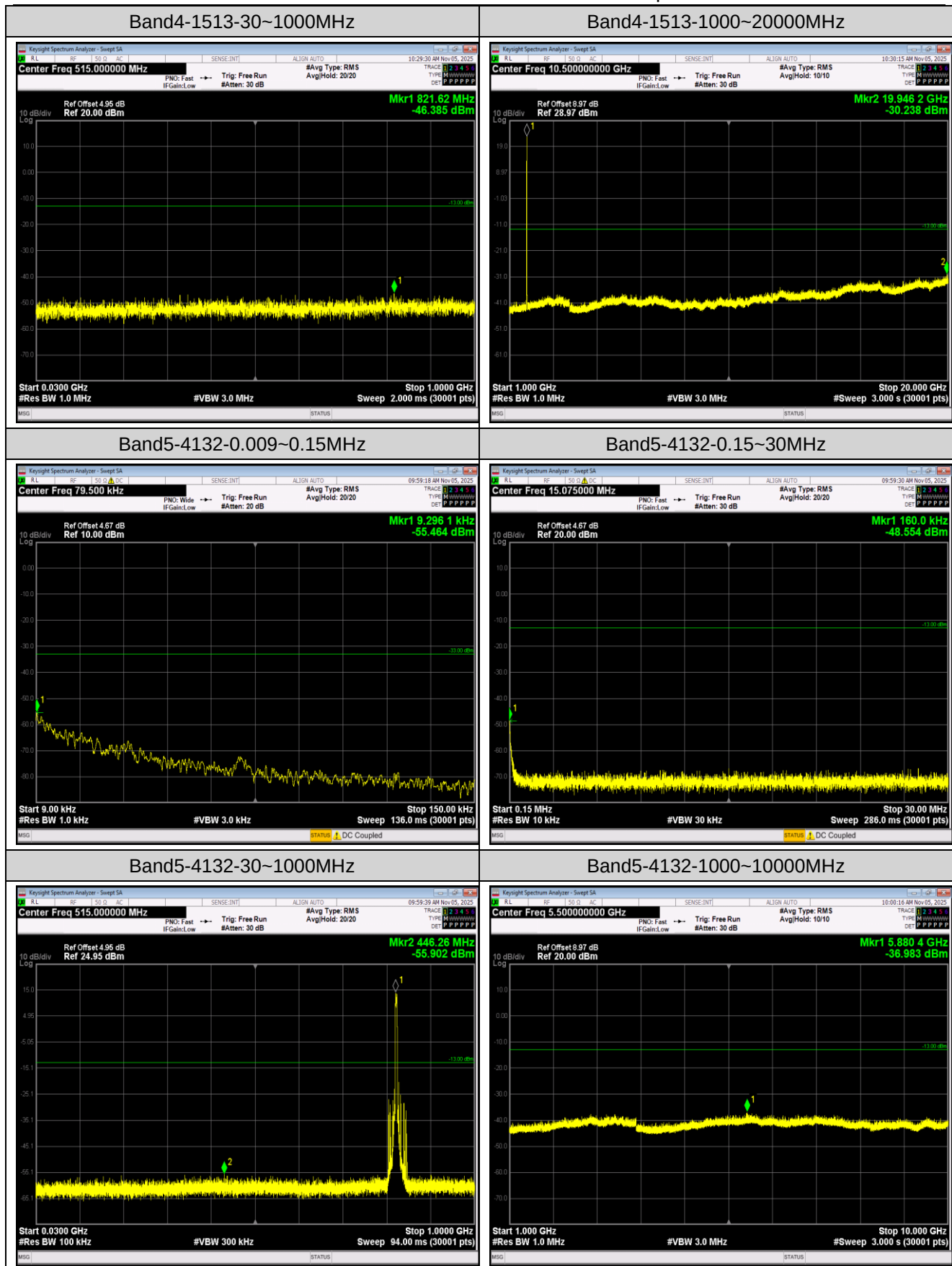
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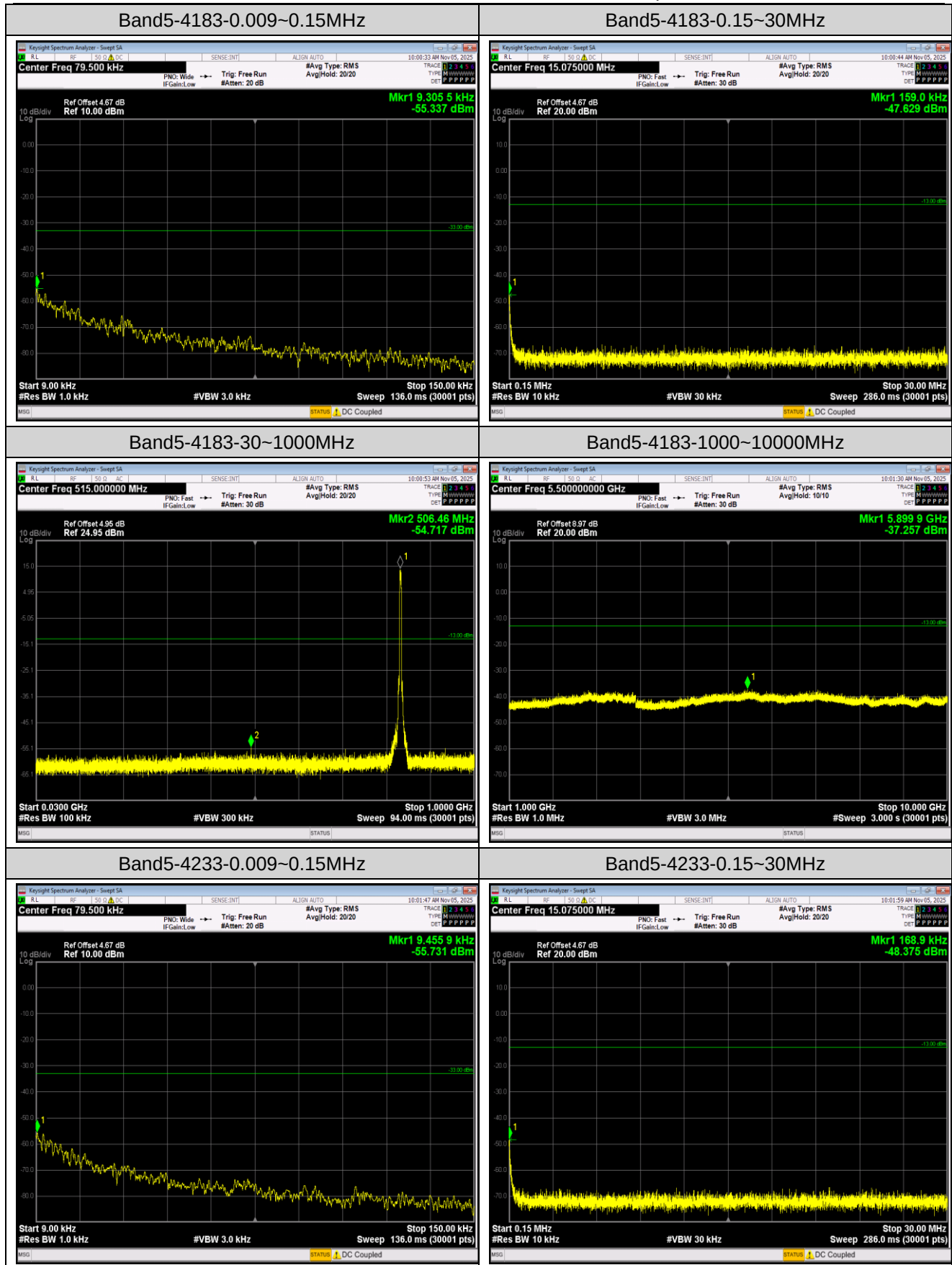
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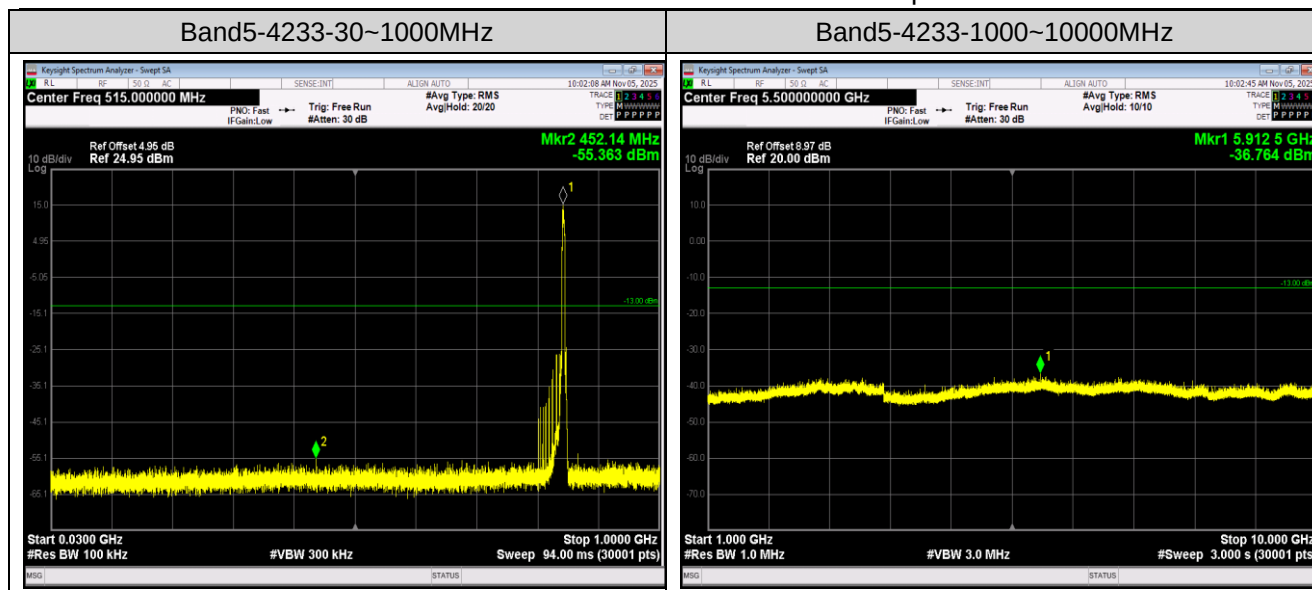








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AppendixF:Frequency Stability

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		
3.80	-30	-5.71	-0.006825	±2.5	Pass
	-20	-7.85	-0.009383		
	-10	-9.89	-0.011822		
	0	-13.54	-0.016185		
	10	-6.39	-0.007638		
	20	-10.68	-0.012766		
	30	-7.54	-0.009013		
	40	-8.33	-0.009957		
	50	-12.49	-0.014929		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-7.40	-0.008845	±2.5	Pass
	3.80	-10.69	-0.012778		
	4.35	-5.23	-0.006251		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

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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		
3.80	-30	-14.21	-0.008202	Within authorized band for BAND IV	Pass
	-20	-13.38	-0.007722		
	-10	-14.36	-0.008288		
	0	-13.60	-0.007849		
	10	-11.33	-0.006539		
	20	-13.24	-0.007642		
	30	-9.27	-0.005350		
	40	-11.29	-0.006516		
	50	-10.70	-0.006176		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-10.62	-0.006130	Within authorized band for BAND IV	Pass
	3.80	-11.10	-0.006407		
	4.35	-15.71	-0.009067		
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		
3.80	-30	-12.02	-0.006394	Within authorized band for BAND II	Pass
	-20	-12.92	-0.006872		
	-10	-13.70	-0.007287		
	0	-10.57	-0.005622		
	10	-10.79	-0.005739		
	20	-13.33	-0.007090		
	30	-9.23	-0.004910		
	40	-10.50	-0.005585		
	50	-12.92	-0.006872		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-15.95	-0.008484	Within authorized band for BAND II	Pass
	3.80	-13.60	-0.007234		
	4.35	-9.98	-0.005309		
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

