

Appendix Test Data

Report No.:	18220WC40069802	Test Sample No.:	1-2-2
Start Test Date:	2024.4.13	Finish Test Date:	2024.6.24
Test Engineer:	Hayman Chen	Auditor:	Justin Feng
Temperature:	24.3℃	Relative Humidity:	57 %
Pressure:	101 kPa		

Appendix A: Conducted Output Power

Test Result

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	31.82	38.45	PASS
GPRS850	128	2	29.57	38.45	PASS
GPRS850	128	3	27.71	38.45	PASS
GPRS850	128	4	25.68	38.45	PASS
GPRS850	190	1	31.76	38.45	PASS
GPRS850	190	2	29.73	38.45	PASS
GPRS850	190	3	27.79	38.45	PASS
GPRS850	190	4	25.81	38.45	PASS
GPRS850	251	1	31.51	38.45	PASS
GPRS850	251	2	29.57	38.45	PASS
GPRS850	251	3	27.64	38.45	PASS
GPRS850	251	4	25.65	38.45	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	24.62	38.45	PASS
EGPRS850	128	2	24.39	38.45	PASS
EGPRS850	128	3	23.21	38.45	PASS
EGPRS850	128	4	20.93	38.45	PASS
EGPRS850	190	1	24.47	38.45	PASS
EGPRS850	190	2	24.31	38.45	PASS
EGPRS850	190	3	23.16	38.45	PASS
EGPRS850	190	4	20.92	38.45	PASS
EGPRS850	251	1	23.89	38.45	PASS
EGPRS850	251	2	23.72	38.45	PASS
EGPRS850	251	3	22.60	38.45	PASS
EGPRS850	251	4	20.28	38.45	PASS



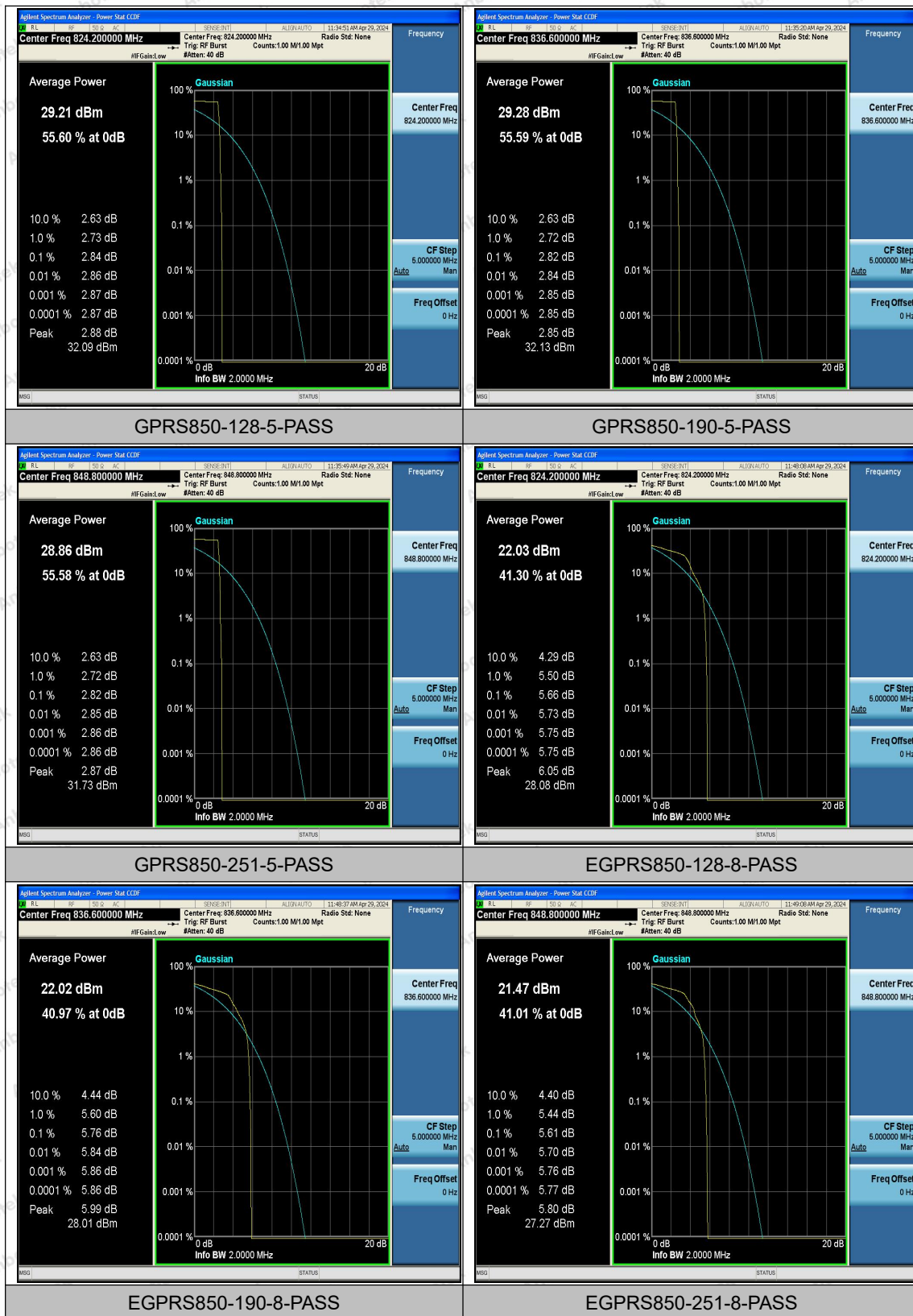
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GPRS850	128	2.84	13	PASS
GPRS850	190	2.82	13	PASS
GPRS850	251	2.82	13	PASS
EGPRS850	128	5.66	13	PASS
EGPRS850	190	5.76	13	PASS
EGPRS850	251	5.61	13	PASS



Test Graphs



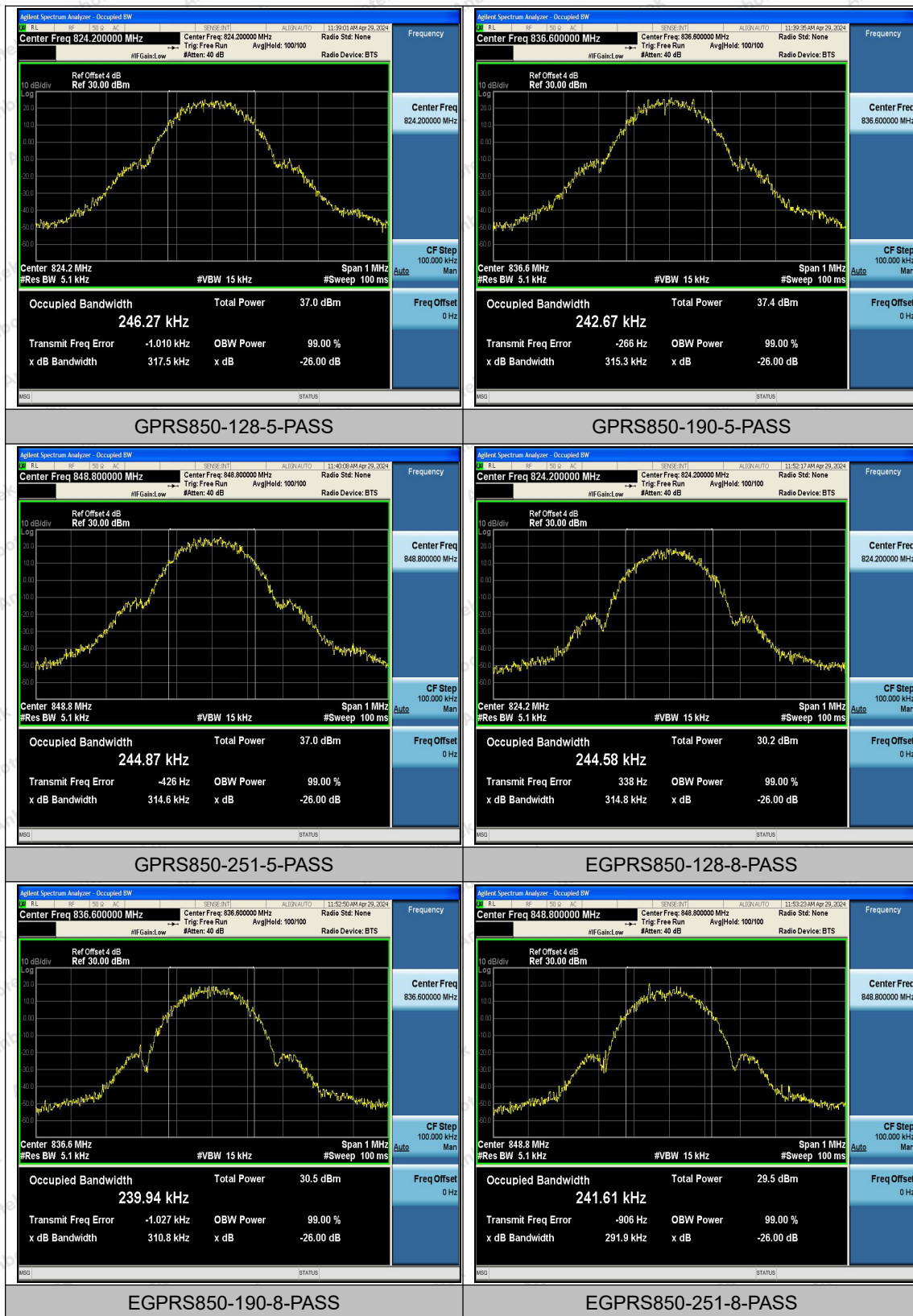
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	128	0.24627	0.3175	---	PASS
GPRS850	190	0.24267	0.3153	---	PASS
GPRS850	251	0.24487	0.3146	---	PASS
EGPRS850	128	0.24458	0.3148	---	PASS
EGPRS850	190	0.23994	0.3108	---	PASS
EGPRS850	251	0.24161	0.2919	---	PASS



Test Graphs



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Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS850	128	823.99	-26.22	-13	PASS
GPRS850	251	849.02	-24.79	-13	PASS
EGPRS850	128	823.98	-36.06	-13	PASS
EGPRS850	251	849.00	-35.72	-13	PASS

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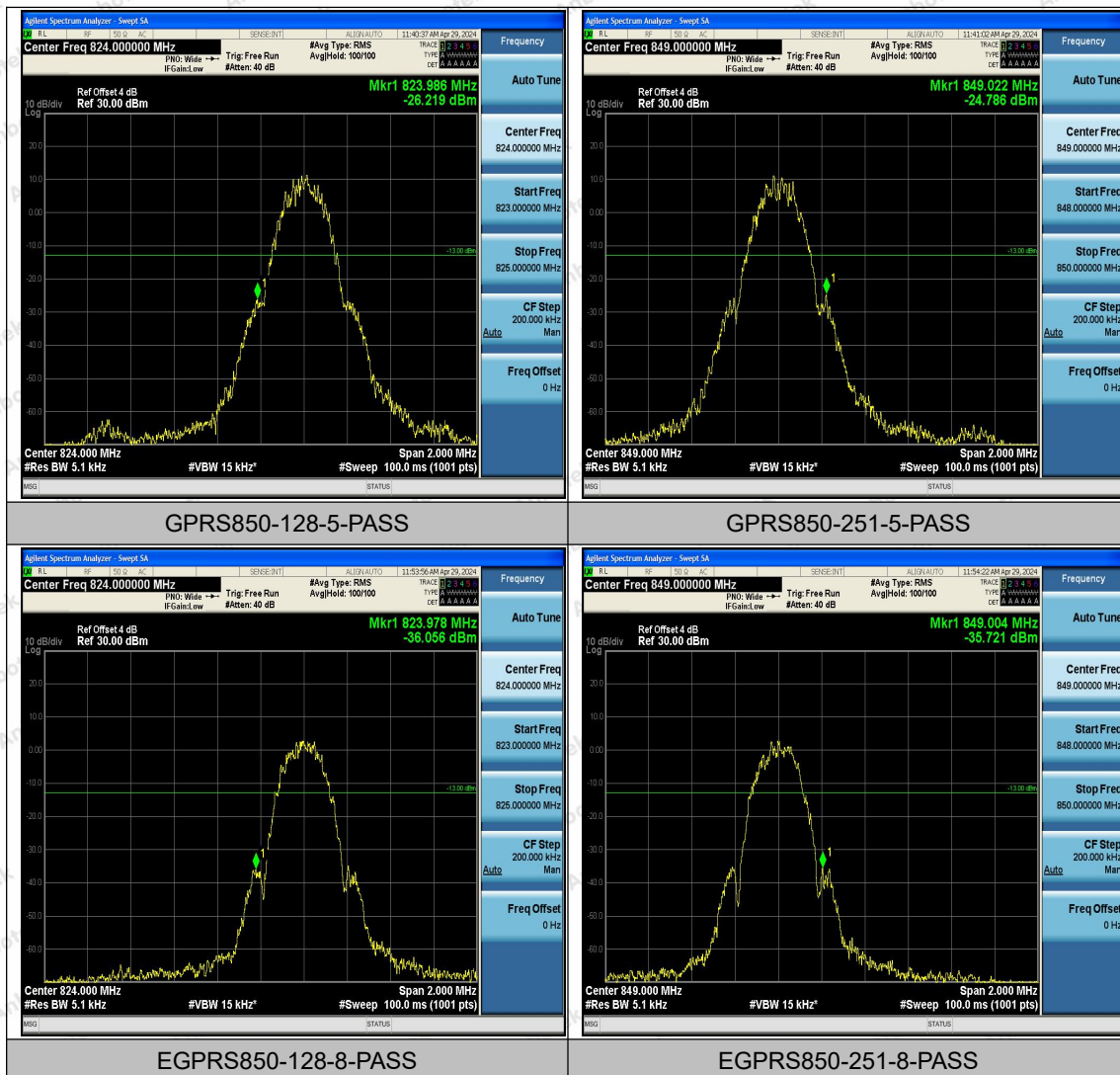
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Test Graphs



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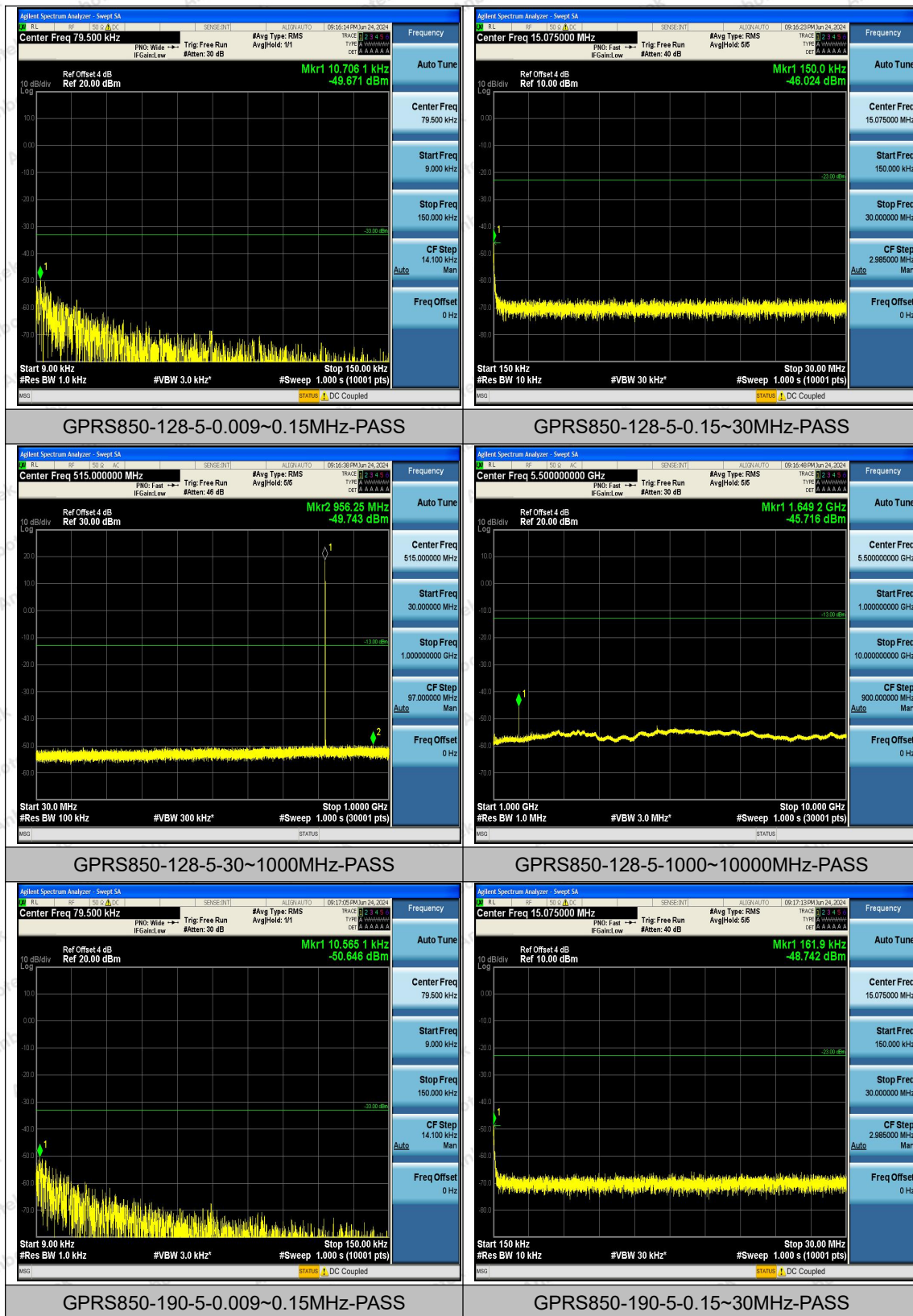
Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS850	128	0.009~0.15MHz	0.01	-49.67	-33	PASS
GPRS850	128	0.15~30MHz	0.15	-46.02	-23	PASS
GPRS850	128	30~1000MHz	956.25	-49.74	-13	PASS
GPRS850	128	1000~10000MHz	1649.2	-45.72	-13	PASS
GPRS850	190	0.009~0.15MHz	0.01	-50.65	-33	PASS
GPRS850	190	0.15~30MHz	0.16	-48.74	-23	PASS
GPRS850	190	30~1000MHz	968.67	-49.26	-13	PASS
GPRS850	190	1000~10000MHz	2509.9	-26.75	-13	PASS
GPRS850	251	0.009~0.15MHz	0.01	-50.99	-33	PASS
GPRS850	251	0.15~30MHz	0.16	-48.51	-23	PASS
GPRS850	251	30~1000MHz	983.77	-49.86	-13	PASS
GPRS850	251	1000~10000MHz	2546.2	-26.91	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.01	-48.3	-33	PASS
EGPRS850	128	0.15~30MHz	0.15	-48.45	-23	PASS
EGPRS850	128	30~1000MHz	929.64	-51.11	-13	PASS
EGPRS850	128	1000~10000MHz	2417.8	-52.08	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.01	-47.44	-33	PASS
EGPRS850	190	0.15~30MHz	0.15	-46.64	-23	PASS
EGPRS850	190	30~1000MHz	945.52	-51.95	-13	PASS
EGPRS850	190	1000~10000MHz	2509.6	-45.05	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.01	-47.99	-33	PASS
EGPRS850	251	0.15~30MHz	0.15	-46.98	-23	PASS
EGPRS850	251	30~1000MHz	733.96	-48.95	-13	PASS
EGPRS850	251	1000~10000MHz	5185.9	-51.49	-13	PASS



Test Graphs



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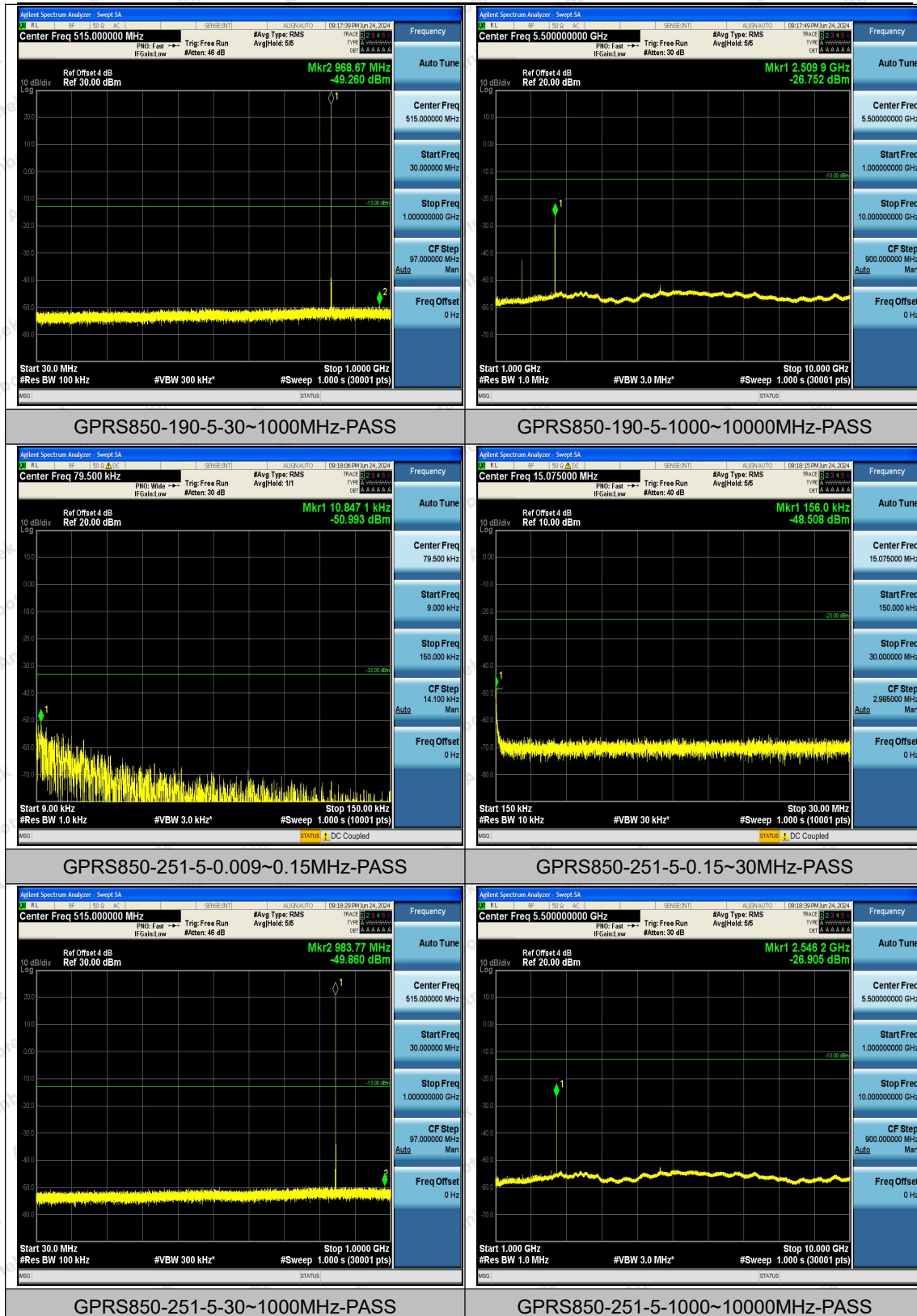


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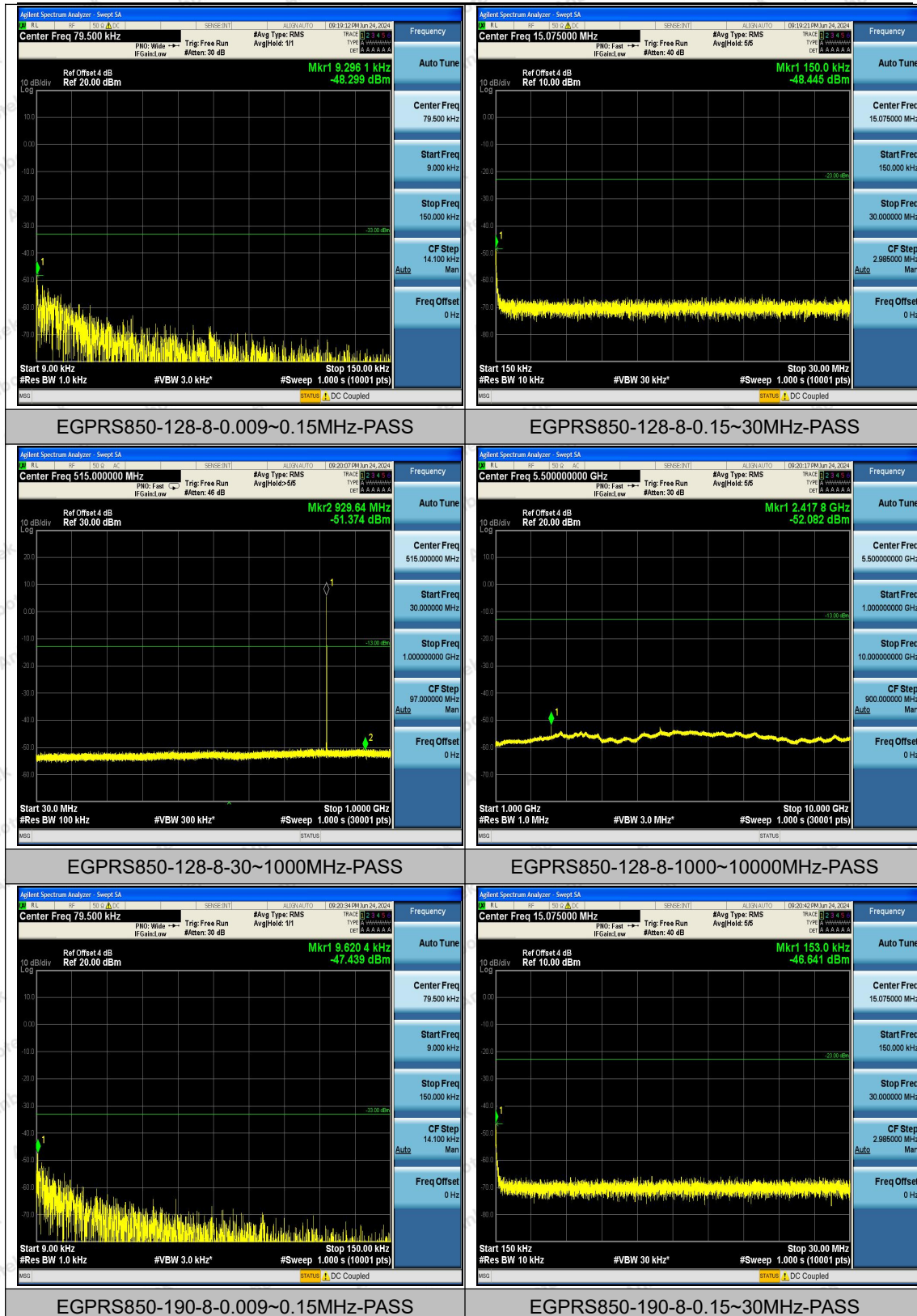
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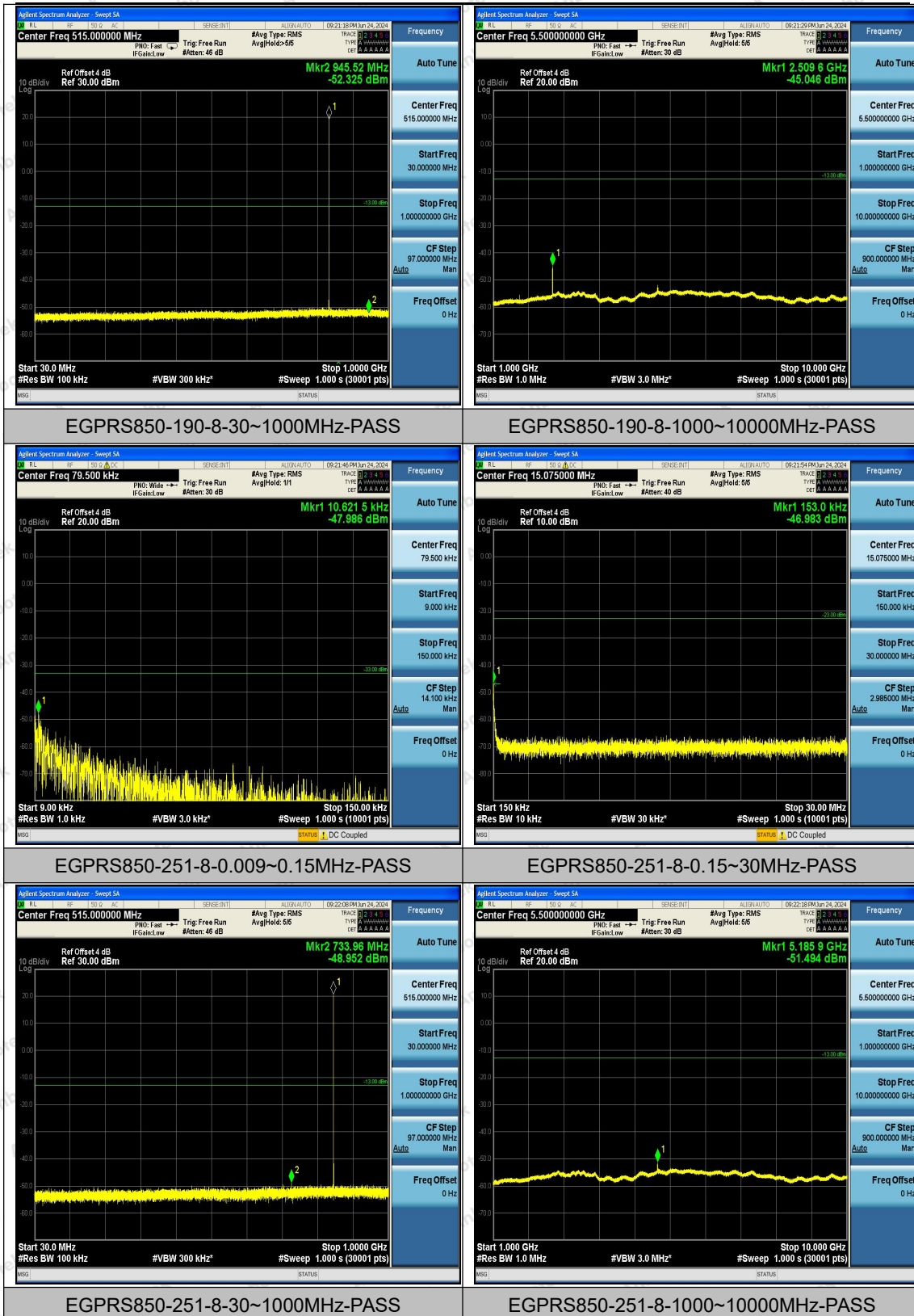


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Appendix F: Frequency stability VS Voltage measurement

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	VN	NT	10.33	0.012533	±2.5	PASS
GPRS850	128	VL	NT	4.42	0.005363	±2.5	PASS
GPRS850	128	VH	NT	8.75	0.010616	±2.5	PASS
GPRS850	190	VN	NT	11.75	0.014045	±2.5	PASS
GPRS850	190	VL	NT	7.78	0.009300	±2.5	PASS
GPRS850	190	VH	NT	4.65	0.005558	±2.5	PASS
GPRS850	251	VN	NT	5.94	0.006998	±2.5	PASS
GPRS850	251	VL	NT	6.26	0.007375	±2.5	PASS
GPRS850	251	VH	NT	5.65	0.006656	±2.5	PASS
EGPRS850	128	VN	NT	6.17	0.007486	±2.5	PASS
EGPRS850	128	VL	NT	3.97	0.004817	±2.5	PASS
EGPRS850	128	VH	NT	5.36	0.006503	±2.5	PASS
EGPRS850	190	VN	NT	6.26	0.007483	±2.5	PASS
EGPRS850	190	VL	NT	2.07	0.002474	±2.5	PASS
EGPRS850	190	VH	NT	1.45	0.001733	±2.5	PASS
EGPRS850	251	VN	NT	9.01	0.010615	±2.5	PASS
EGPRS850	251	VL	NT	0.77	0.000907	±2.5	PASS
EGPRS850	251	VH	NT	9.62	0.011334	±2.5	PASS



Appendix G: Frequency stability VS Temperature measurement

Test Result

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	NV	-30	10.07	0.012218	±2.5	PASS
GPRS850	128	NV	-20	10.04	0.012182	±2.5	PASS
GPRS850	128	NV	-10	7.91	0.009597	±2.5	PASS
GPRS850	128	NV	0	8.78	0.010653	±2.5	PASS
GPRS850	128	NV	10	8.46	0.010264	±2.5	PASS
GPRS850	128	NV	20	10.36	0.012570	±2.5	PASS
GPRS850	128	NV	30	6.78	0.008226	±2.5	PASS
GPRS850	128	NV	40	10.82	0.013128	±2.5	PASS
GPRS850	128	NV	50	8.85	0.010738	±2.5	PASS
GPRS850	190	NV	-30	11.30	0.013507	±2.5	PASS
GPRS850	190	NV	-20	10.43	0.012467	±2.5	PASS
GPRS850	190	NV	-10	12.20	0.014583	±2.5	PASS
GPRS850	190	NV	0	11.46	0.013698	±2.5	PASS
GPRS850	190	NV	10	11.62	0.013890	±2.5	PASS
GPRS850	190	NV	20	8.78	0.010495	±2.5	PASS
GPRS850	190	NV	30	10.53	0.012587	±2.5	PASS
GPRS850	190	NV	40	10.46	0.012503	±2.5	PASS
GPRS850	190	NV	50	11.62	0.013890	±2.5	PASS
GPRS850	251	NV	-30	5.52	0.006503	±2.5	PASS
GPRS850	251	NV	-20	7.72	0.009095	±2.5	PASS
GPRS850	251	NV	-10	9.94	0.011711	±2.5	PASS
GPRS850	251	NV	0	6.01	0.007081	±2.5	PASS
GPRS850	251	NV	10	2.42	0.002851	±2.5	PASS
GPRS850	251	NV	20	4.04	0.004760	±2.5	PASS
GPRS850	251	NV	30	2.29	0.002698	±2.5	PASS
GPRS850	251	NV	40	1.65	0.001944	±2.5	PASS
GPRS850	251	NV	50	4.10	0.004830	±2.5	PASS
EGPRS850	128	NV	-30	0.29	0.000352	±2.5	PASS
EGPRS850	128	NV	-20	5.88	0.007134	±2.5	PASS
EGPRS850	128	NV	-10	2.71	0.003288	±2.5	PASS
EGPRS850	128	NV	0	2.71	0.003288	±2.5	PASS
EGPRS850	128	NV	10	3.42	0.004149	±2.5	PASS
EGPRS850	128	NV	20	2.49	0.003021	±2.5	PASS

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EGPRS850	128	NV	30	0.55	0.000667	±2.5	PASS
EGPRS850	128	NV	40	6.10	0.007401	±2.5	PASS
EGPRS850	128	NV	50	7.52	0.009124	±2.5	PASS
EGPRS850	190	NV	-30	2.97	0.003550	±2.5	PASS
EGPRS850	190	NV	-20	1.52	0.001817	±2.5	PASS
EGPRS850	190	NV	-10	-0.68	-0.000813	±2.5	PASS
EGPRS850	190	NV	0	4.52	0.005403	±2.5	PASS
EGPRS850	190	NV	10	4.68	0.005594	±2.5	PASS
EGPRS850	190	NV	20	3.94	0.004710	±2.5	PASS
EGPRS850	190	NV	30	5.10	0.006096	±2.5	PASS
EGPRS850	190	NV	40	2.45	0.002929	±2.5	PASS
EGPRS850	190	NV	50	2.26	0.002701	±2.5	PASS
EGPRS850	251	NV	-30	4.04	0.004760	±2.5	PASS
EGPRS850	251	NV	-20	0.26	0.000306	±2.5	PASS
EGPRS850	251	NV	-10	-0.36	-0.000424	±2.5	PASS
EGPRS850	251	NV	0	3.65	0.004300	±2.5	PASS
EGPRS850	251	NV	10	0.65	0.000766	±2.5	PASS
EGPRS850	251	NV	20	-1.78	-0.002097	±2.5	PASS
EGPRS850	251	NV	30	3.10	0.003652	±2.5	PASS
EGPRS850	251	NV	40	2.00	0.002356	±2.5	PASS
EGPRS850	251	NV	50	-0.74	-0.000872	±2.5	PASS

---END---

