

Appendix Test Data

Report No.:	18220WC40031205	Test Sample No.:	1-2-2
Start Test Date:	2024.2.29	Finish Test Date:	2024.3.13
Test Engineer:	Hayman Chen	Auditor:	Justin Feng
Temperature:	24.3°C	Relative Humidity:	57 %
Pressure:	101 kPa		

Appendix A: Conducted Output Power

Test Result

Band	Channel	ERP/EIRP(dBm)	Limit(dBm)	Verdict
GSM850	128	31.96	38.45	PASS
GSM850	190	31.97	38.45	PASS
GSM850	251	31.99	38.45	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	32.13	38.45	PASS
GPRS850	128	2	31.06	38.45	PASS
GPRS850	128	3	29.88	38.45	PASS
GPRS850	128	4	28.37	38.45	PASS
GPRS850	190	1	32.00	38.45	PASS
GPRS850	190	2	31.08	38.45	PASS
GPRS850	190	3	29.76	38.45	PASS
GPRS850	190	4	28.57	38.45	PASS
GPRS850	251	1	32.08	38.45	PASS
GPRS850	251	2	31.13	38.45	PASS
GPRS850	251	3	29.77	38.45	PASS
GPRS850	251	4	28.49	38.45	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	25.84	38.45	PASS
EGPRS850	128	2	24.61	38.45	PASS
EGPRS850	128	3	23.37	38.45	PASS
EGPRS850	128	4	22.11	38.45	PASS

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EGPRS85 0	190	1	25.95	38.45	PASS
EGPRS85 0	190	2	24.80	38.45	PASS
EGPRS85 0	190	3	23.56	38.45	PASS
EGPRS85 0	190	4	22.42	38.45	PASS
EGPRS85 0	251	1	25.80	38.45	PASS
EGPRS85 0	251	2	24.64	38.45	PASS
EGPRS85 0	251	3	23.42	38.45	PASS
EGPRS85 0	251	4	22.14	38.45	PASS

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

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GPRS850	128	2.63	13	PASS
GPRS850	190	2.62	13	PASS
GPRS850	251	2.63	13	PASS
EGPRS850	128	5.81	13	PASS
EGPRS850	190	5.78	13	PASS
EGPRS850	251	5.76	13	PASS
GSM850	128	2.64	13	PASS
GSM850	190	2.63	13	PASS
GSM850	251	2.64	13	PASS

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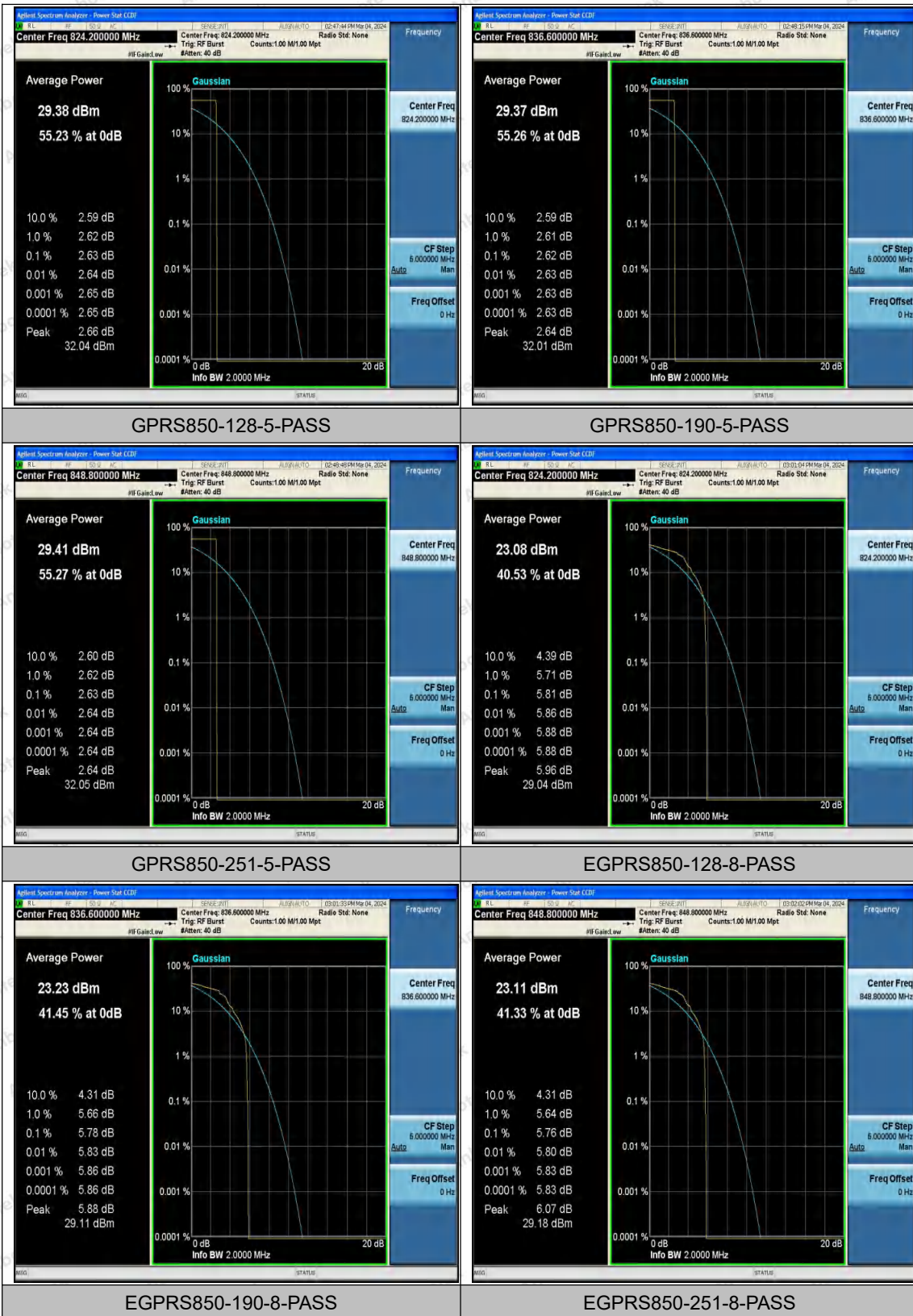
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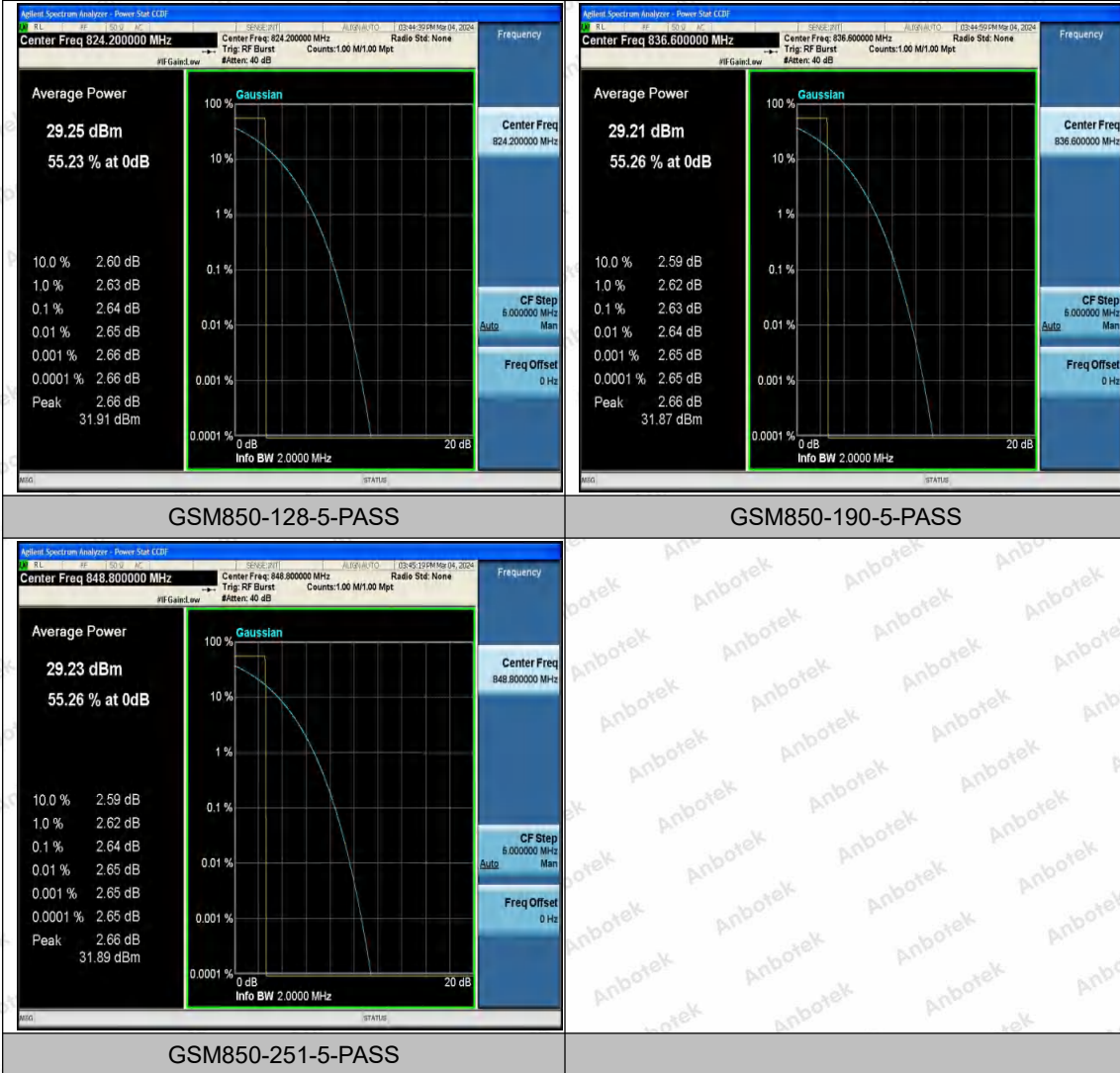


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Test Graphs





GSM850-128-5-PASS

GSM850-190-5-PASS

GSM850-251-5-PASS

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Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	128	0.24407	0.3153	---	PASS
GPRS850	190	0.24593	0.3154	---	PASS
GPRS850	251	0.24713	0.3135	---	PASS
EGPRS850	128	0.24427	0.3118	---	PASS
EGPRS850	190	0.24359	0.3022	---	PASS
EGPRS850	251	0.24867	0.3082	---	PASS
GSM850	128	0.24290	0.3209	---	PASS
GSM850	190	0.24559	0.3100	---	PASS
GSM850	251	0.24304	0.3153	---	PASS

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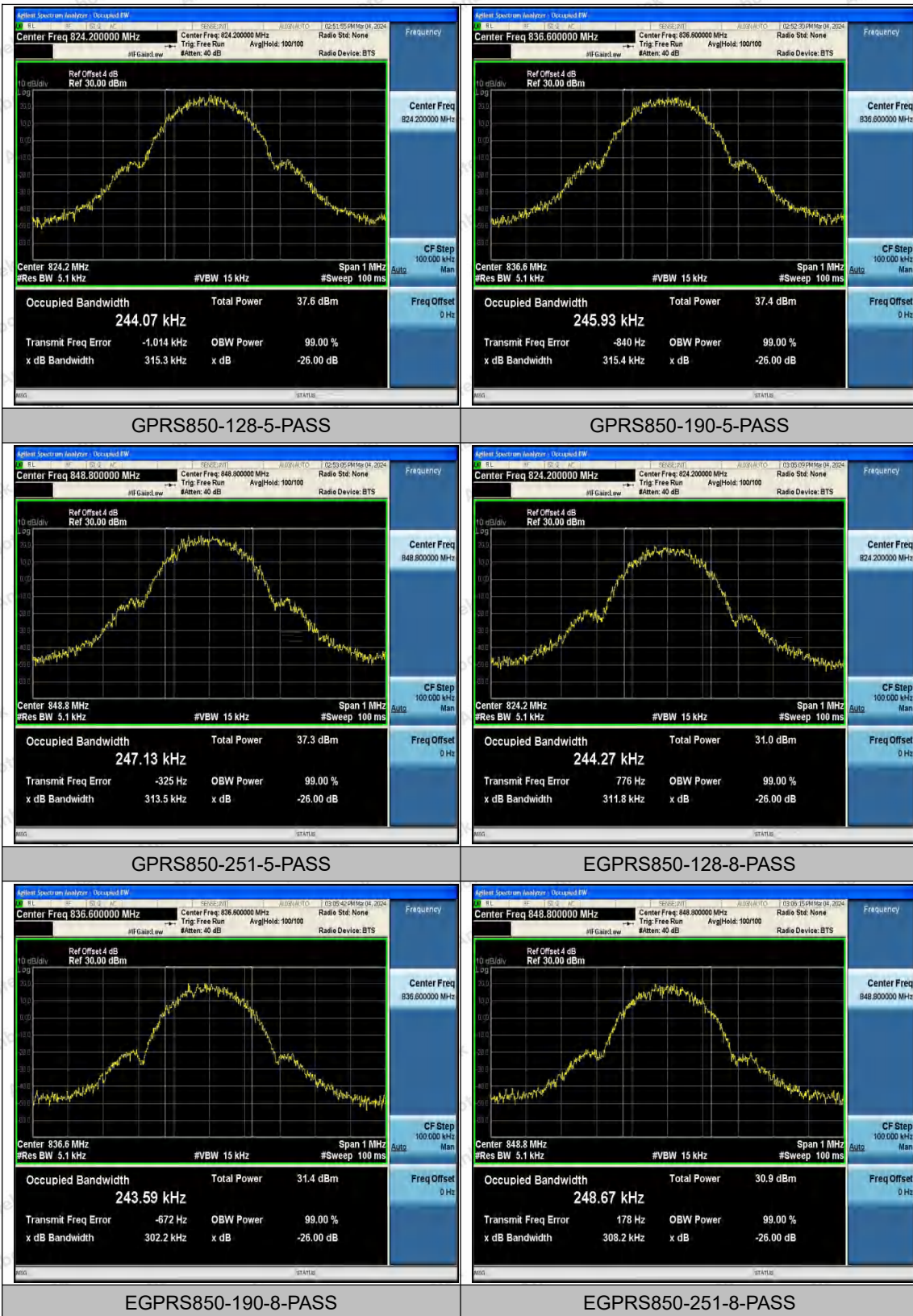
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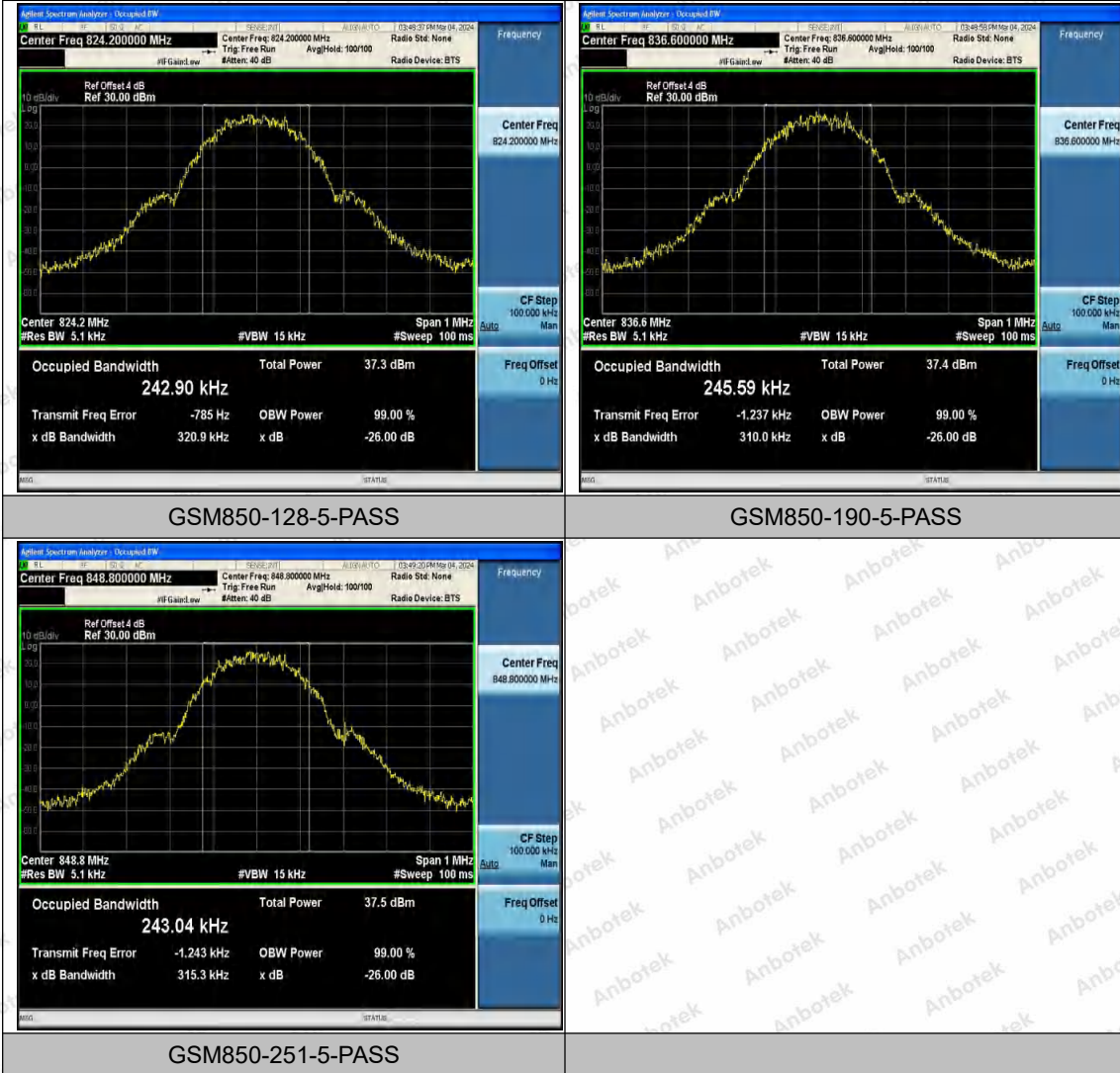


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Test Graphs





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Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS850	128	823.98	-25.58	-13	PASS
GPRS850	251	849.02	-25.78	-13	PASS
EGPRS850	128	823.99	-33.60	-13	PASS
EGPRS850	251	849.01	-36.04	-13	PASS
GSM850	128	823.98	-26.08	-13	PASS
GSM850	251	849.02	-25.35	-13	PASS

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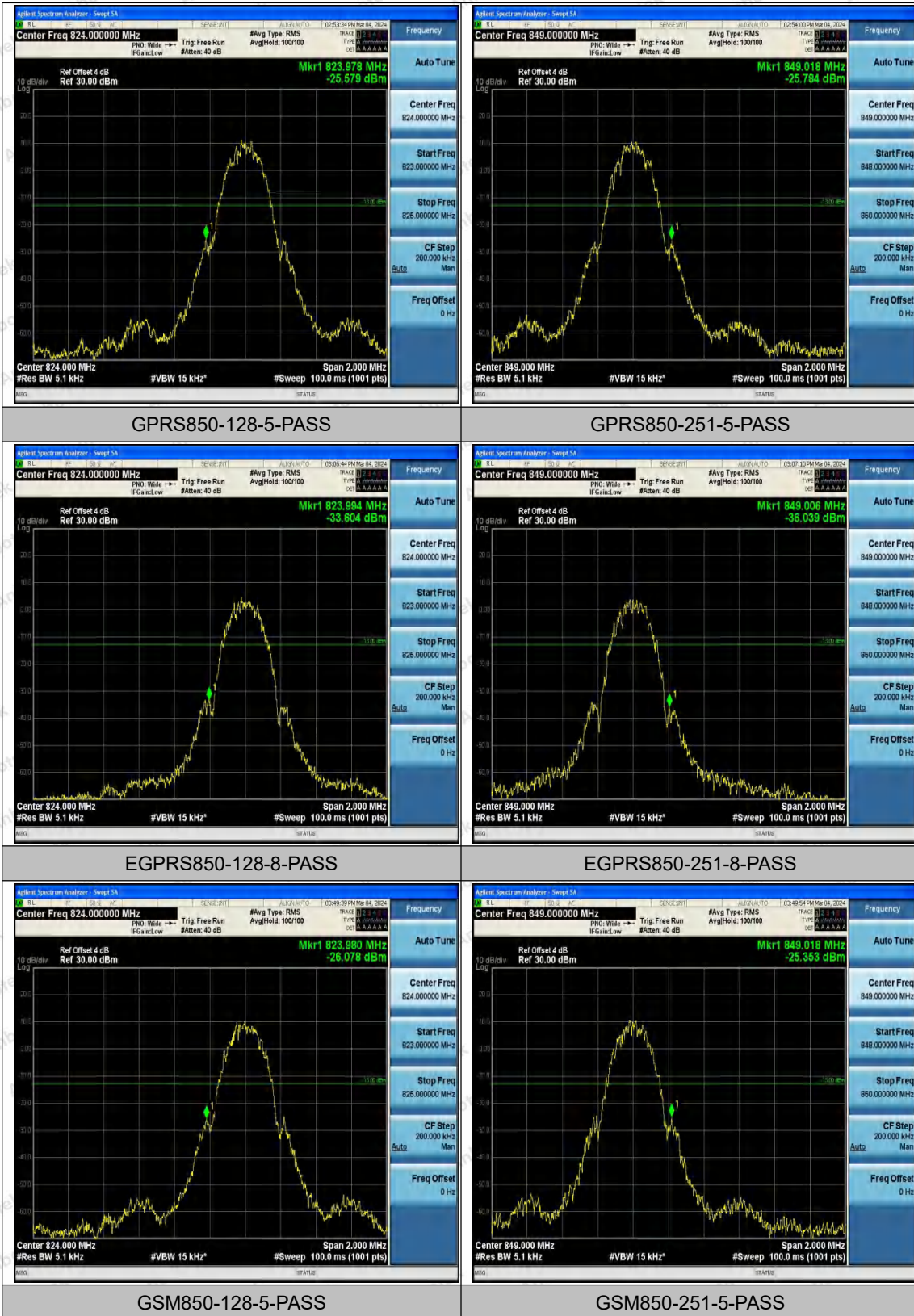
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Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS850	128	0.009~0.15MHz	0.01	-52.75	-33	PASS
GPRS850	128	0.15~30MHz	0.15	-49.39	-23	PASS
GPRS850	128	30~1000MHz	925.57	-49.74	-13	PASS
GPRS850	128	1000~10000MHz	1648.3	-38.99	-13	PASS
GPRS850	190	0.009~0.15MHz	0.01	-53.38	-33	PASS
GPRS850	190	0.15~30MHz	0.15	-52.91	-23	PASS
GPRS850	190	30~1000MHz	976.17	-49.83	-13	PASS
GPRS850	190	1000~10000MHz	1673.2	-41.83	-13	PASS
GPRS850	251	0.009~0.15MHz	0.01	-52.82	-33	PASS
GPRS850	251	0.15~30MHz	0.16	-52.35	-23	PASS
GPRS850	251	30~1000MHz	974.46	-49.62	-13	PASS
GPRS850	251	1000~10000MHz	2545.9	-33.23	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.01	-53.64	-33	PASS
EGPRS850	128	0.15~30MHz	0.15	-51.46	-23	PASS
EGPRS850	128	30~1000MHz	977.63	-49.32	-13	PASS
EGPRS850	128	1000~10000MHz	2472.7	-45.79	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.01	-50.55	-33	PASS
EGPRS850	190	0.15~30MHz	0.16	-50.64	-23	PASS
EGPRS850	190	30~1000MHz	975.65	-49.26	-13	PASS
EGPRS850	190	1000~10000MHz	2509.9	-43.22	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.01	-50.43	-33	PASS
EGPRS850	251	0.15~30MHz	0.16	-51.39	-23	PASS
EGPRS850	251	30~1000MHz	748.29	-49.83	-13	PASS
EGPRS850	251	1000~10000MHz	2546.5	-41.98	-13	PASS
GSM850	128	0.009~0.15MHz	0.01	-52.28	-33	PASS
GSM850	128	0.15~30MHz	0.15	-49.78	-23	PASS
GSM850	128	30~1000MHz	924.7	-49.37	-13	PASS
GSM850	128	1000~10000MHz	1647.7	-48.87	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-50.84	-33	PASS
GSM850	190	0.15~30MHz	0.15	-49.58	-23	PASS
GSM850	190	30~1000MHz	667	-49.76	-13	PASS
GSM850	190	1000~10000MHz	2509.9	-29.87	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-51.77	-33	PASS
GSM850	251	0.15~30MHz	0.15	-50.07	-23	PASS
GSM850	251	30~1000MHz	957.03	-49.4	-13	PASS
GSM850	251	1000~10000MHz	5624.5	-53.56	-13	PASS

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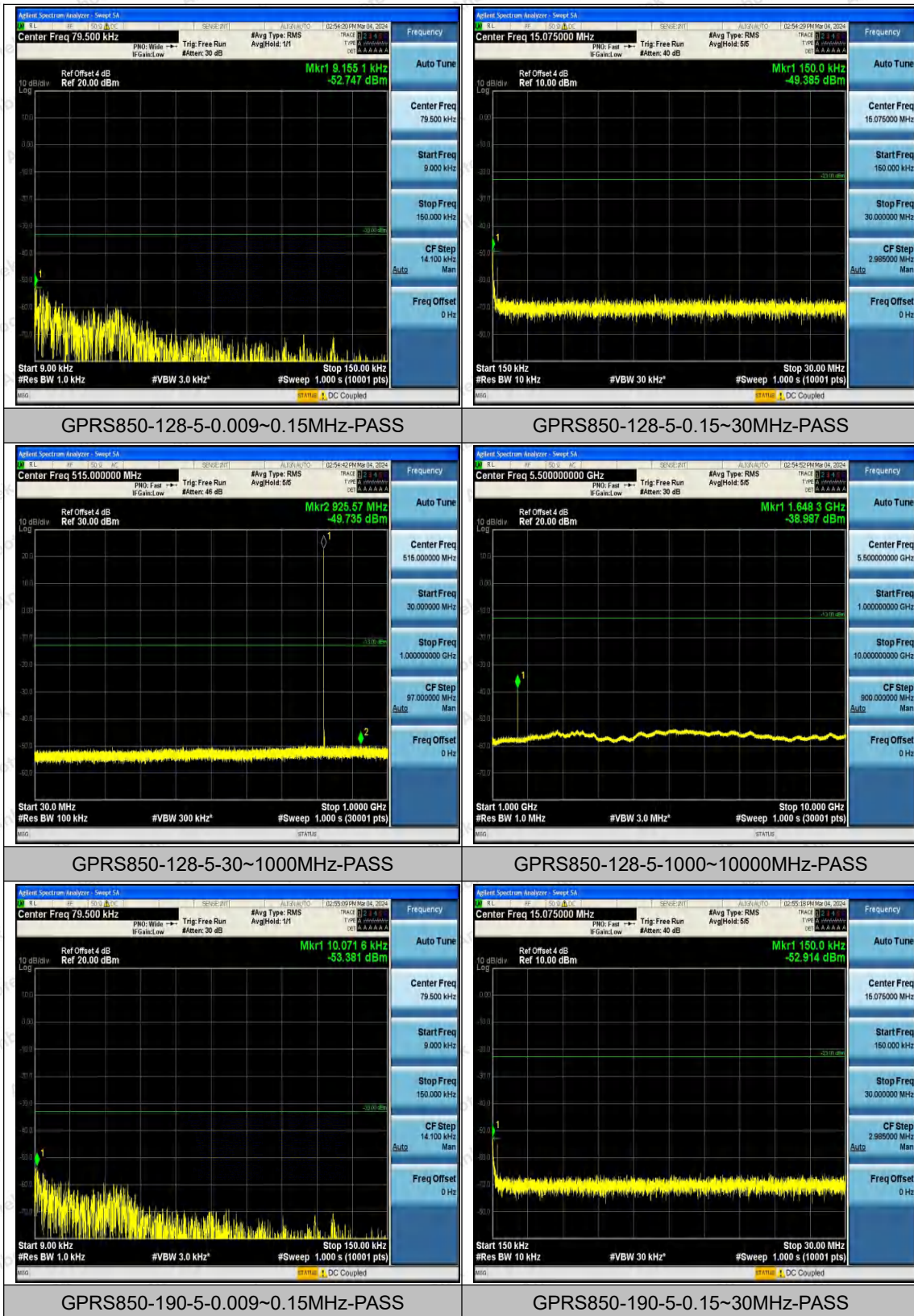
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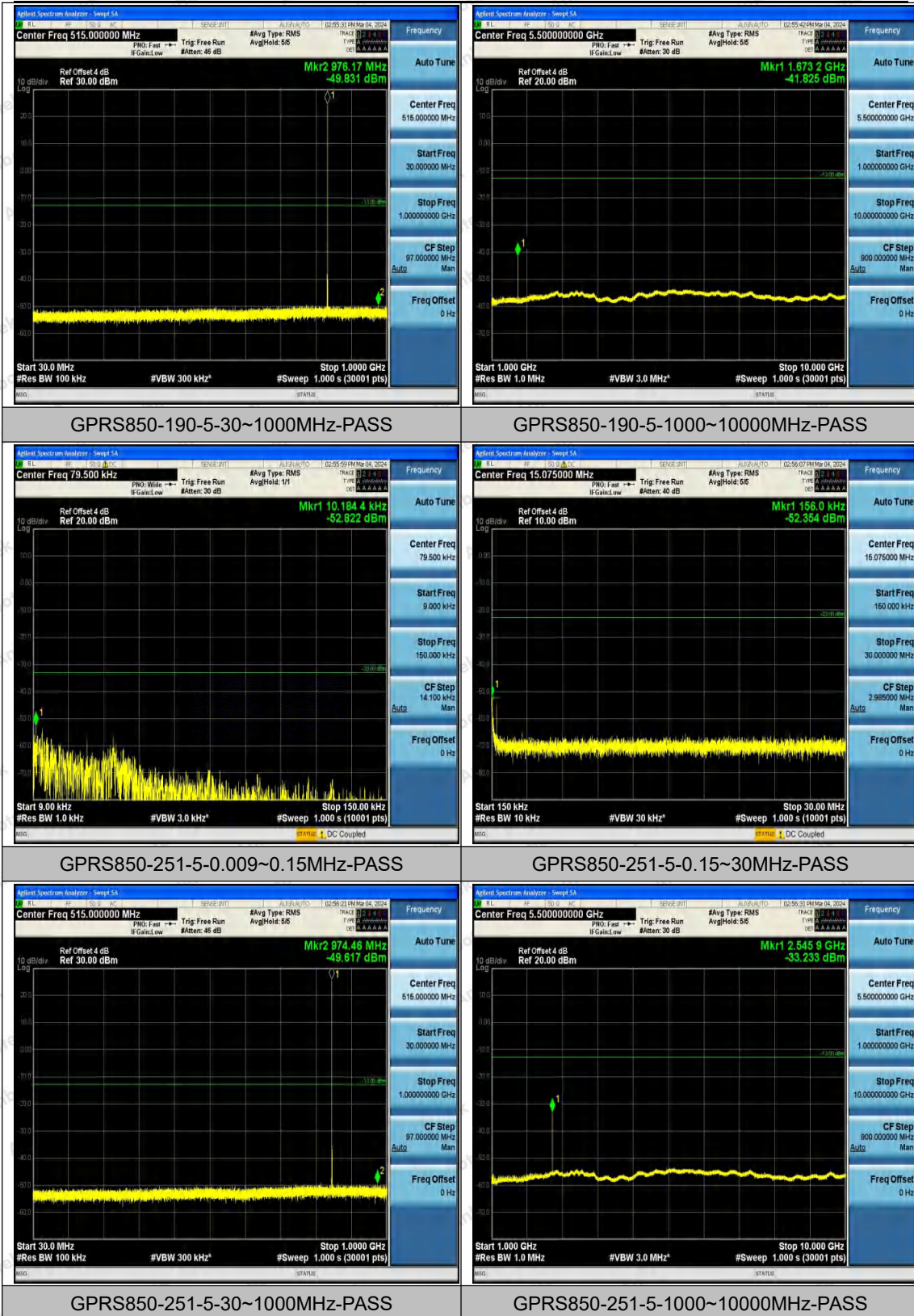


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Test Graphs



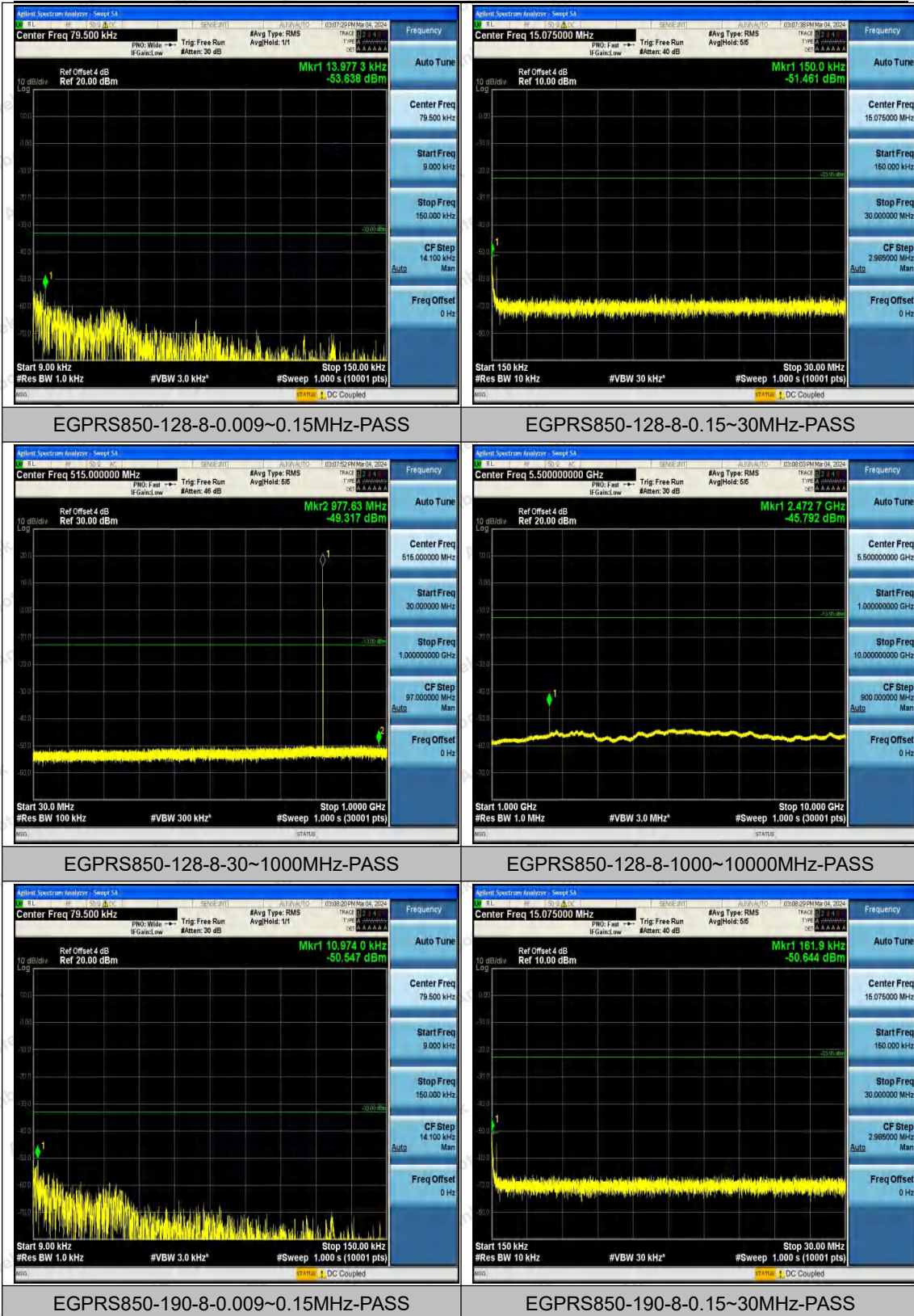


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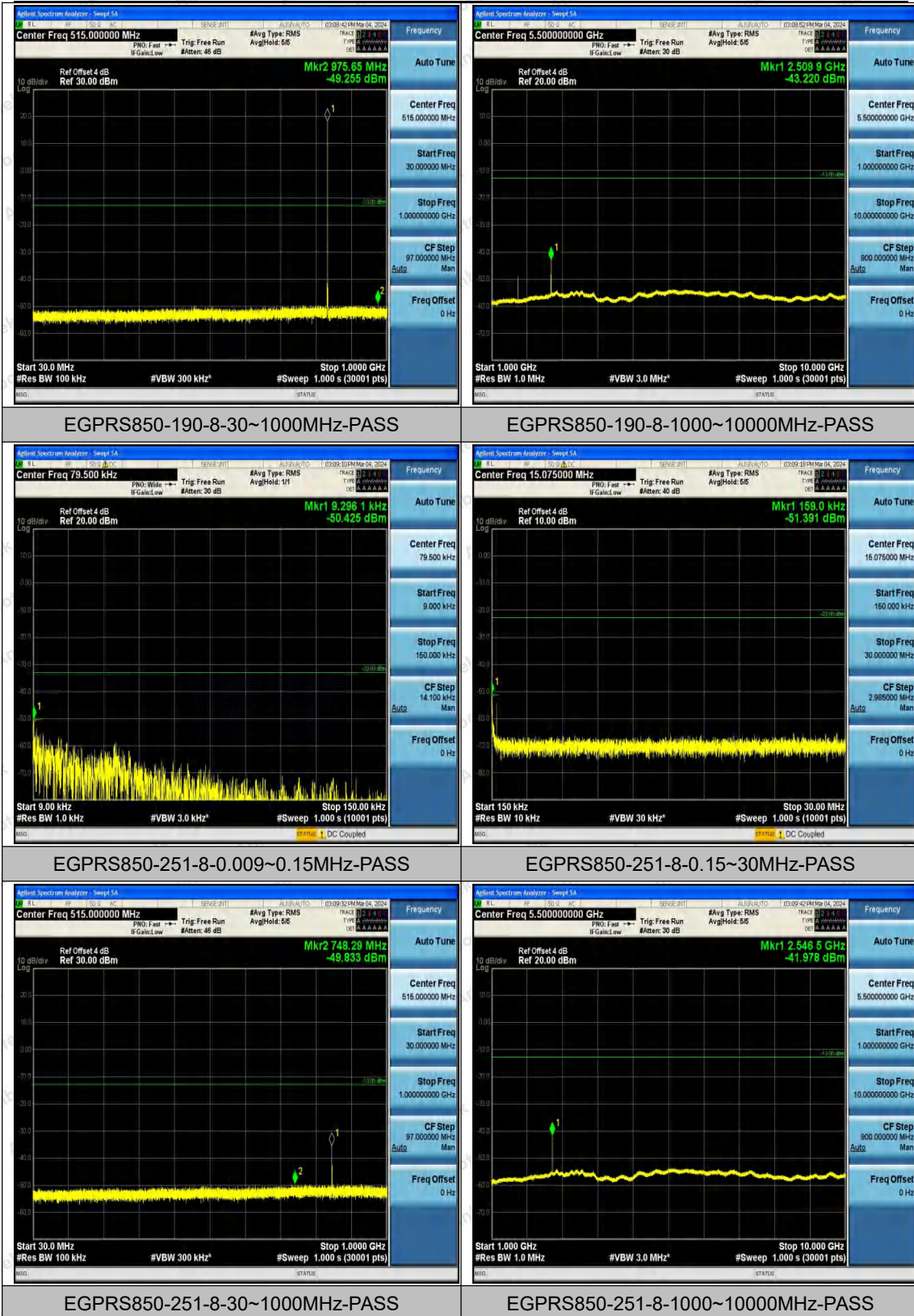


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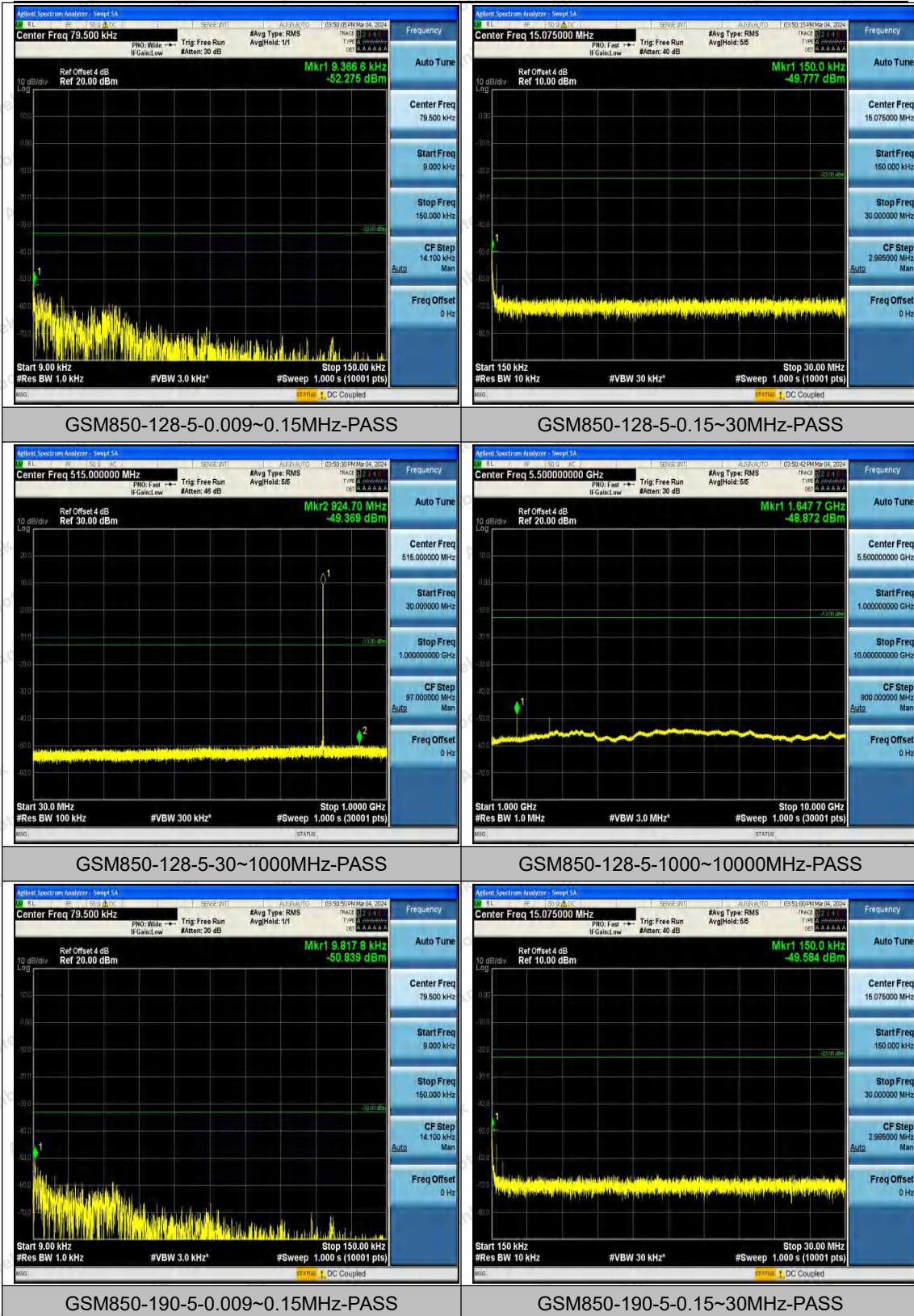


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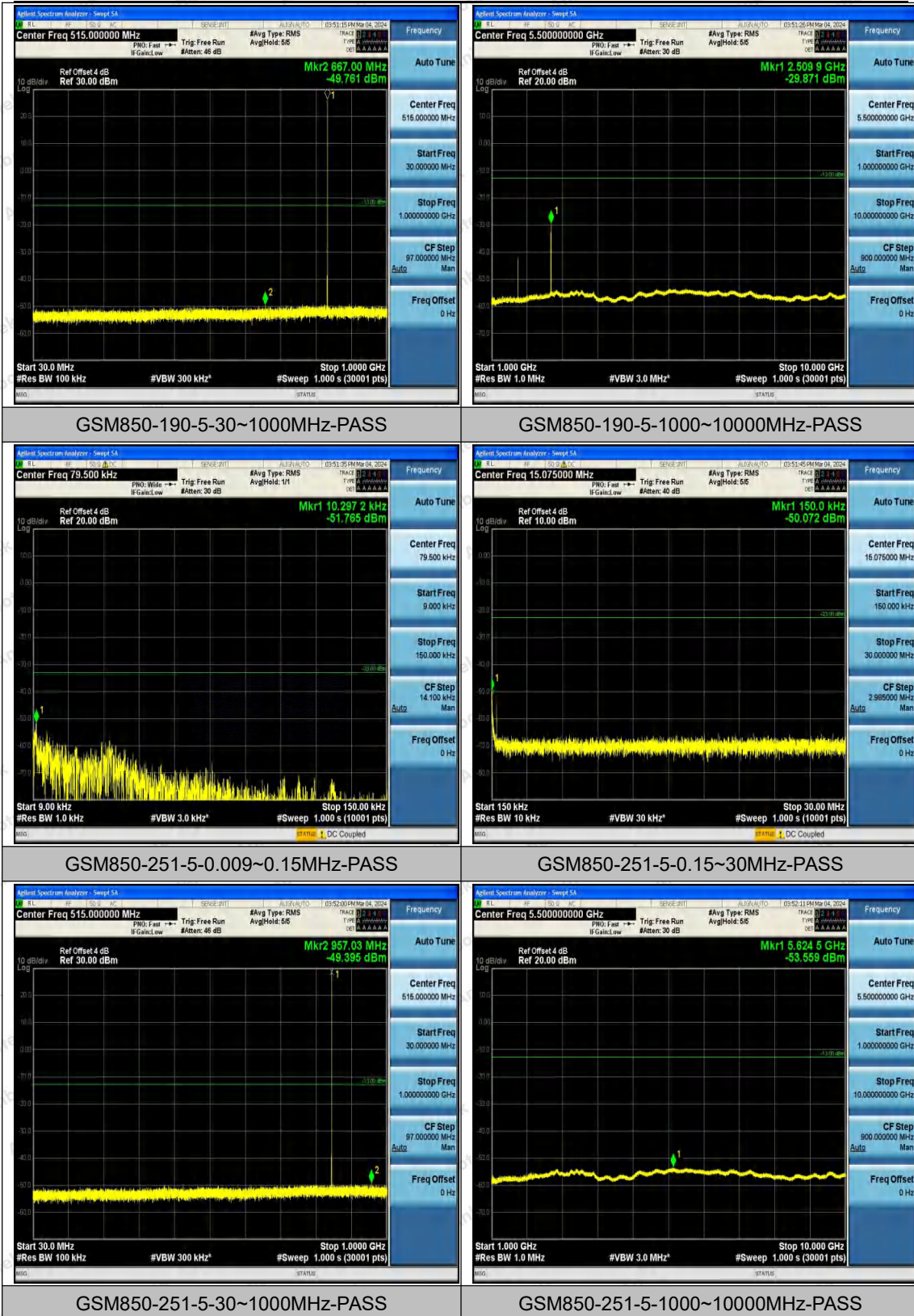


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Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	VN	NT	30.41	0.036896	±2.5	PASS
GPRS850	128	VL	NT	28.06	0.034045	±2.5	PASS
GPRS850	128	VH	NT	29.67	0.035999	±2.5	PASS
GPRS850	190	VN	NT	28.19	0.033696	±2.5	PASS
GPRS850	190	VL	NT	32.03	0.038286	±2.5	PASS
GPRS850	190	VH	NT	28.51	0.034078	±2.5	PASS
GPRS850	251	VN	NT	27.12	0.031951	±2.5	PASS
GPRS850	251	VL	NT	29.54	0.034802	±2.5	PASS
GPRS850	251	VH	NT	29.70	0.034991	±2.5	PASS
EGPRS850	128	VN	NT	31.93	0.038741	±2.5	PASS
EGPRS850	128	VL	NT	35.22	0.042732	±2.5	PASS
EGPRS850	128	VH	NT	31.83	0.038619	±2.5	PASS
EGPRS850	190	VN	NT	33.51	0.040055	±2.5	PASS
EGPRS850	190	VL	NT	32.67	0.039051	±2.5	PASS
EGPRS850	190	VH	NT	32.64	0.039015	±2.5	PASS
EGPRS850	251	VN	NT	31.19	0.036746	±2.5	PASS
EGPRS850	251	VL	NT	34.06	0.040127	±2.5	PASS
EGPRS850	251	VH	NT	33.38	0.039326	±2.5	PASS
GSM850	128	VN	NT	22.05	0.026753	±2.5	PASS
GSM850	128	VL	NT	18.31	0.022215	±2.5	PASS
GSM850	128	VH	NT	19.44	0.023587	±2.5	PASS
GSM850	190	VN	NT	19.82	0.023691	±2.5	PASS
GSM850	190	VL	NT	19.11	0.022842	±2.5	PASS
GSM850	190	VH	NT	23.18	0.027707	±2.5	PASS
GSM850	251	VN	NT	29.41	0.034649	±2.5	PASS
GSM850	251	VL	NT	29.09	0.034272	±2.5	PASS
GSM850	251	VH	NT	25.73	0.030313	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	NV	-30	28.73	0.034858	±2.5	PASS
GPRS850	128	NV	-20	28.90	0.035064	±2.5	PASS
GPRS850	128	NV	-10	29.90	0.036278	±2.5	PASS
GPRS850	128	NV	0	30.80	0.037370	±2.5	PASS

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GPRS850	128	NV	10	30.61	0.037139	±2.5	PASS
GPRS850	128	NV	20	30.74	0.037297	±2.5	PASS
GPRS850	128	NV	30	31.70	0.038462	±2.5	PASS
GPRS850	128	NV	40	31.19	0.037843	±2.5	PASS
GPRS850	128	NV	50	28.31	0.034348	±2.5	PASS
GPRS850	190	NV	-30	29.51	0.035274	±2.5	PASS
GPRS850	190	NV	-20	28.93	0.034580	±2.5	PASS
GPRS850	190	NV	-10	33.00	0.039445	±2.5	PASS
GPRS850	190	NV	0	33.00	0.039445	±2.5	PASS
GPRS850	190	NV	10	33.03	0.039481	±2.5	PASS
GPRS850	190	NV	20	28.73	0.034341	±2.5	PASS
GPRS850	190	NV	30	29.41	0.035154	±2.5	PASS
GPRS850	190	NV	40	29.54	0.035310	±2.5	PASS
GPRS850	190	NV	50	30.09	0.035967	±2.5	PASS
GPRS850	251	NV	-30	28.73	0.033848	±2.5	PASS
GPRS850	251	NV	-20	28.70	0.033812	±2.5	PASS
GPRS850	251	NV	-10	27.96	0.032941	±2.5	PASS
GPRS850	251	NV	0	28.86	0.034001	±2.5	PASS
GPRS850	251	NV	10	28.15	0.033164	±2.5	PASS
GPRS850	251	NV	20	29.02	0.034189	±2.5	PASS
GPRS850	251	NV	30	28.35	0.033400	±2.5	PASS
GPRS850	251	NV	40	27.57	0.032481	±2.5	PASS
GPRS850	251	NV	50	26.64	0.031385	±2.5	PASS
EGPRS850	128	NV	-30	32.67	0.039638	±2.5	PASS
EGPRS850	128	NV	-20	34.29	0.041604	±2.5	PASS
EGPRS850	128	NV	-10	33.32	0.040427	±2.5	PASS
EGPRS850	128	NV	0	34.09	0.041361	±2.5	PASS
EGPRS850	128	NV	10	32.90	0.039917	±2.5	PASS
EGPRS850	128	NV	20	34.51	0.041871	±2.5	PASS
EGPRS850	128	NV	30	33.16	0.040233	±2.5	PASS
EGPRS850	128	NV	40	34.61	0.041992	±2.5	PASS
EGPRS850	128	NV	50	33.71	0.040900	±2.5	PASS
EGPRS850	190	NV	-30	34.64	0.041406	±2.5	PASS
EGPRS850	190	NV	-20	34.51	0.041250	±2.5	PASS
EGPRS850	190	NV	-10	35.77	0.042756	±2.5	PASS
EGPRS850	190	NV	0	34.80	0.041597	±2.5	PASS
EGPRS850	190	NV	10	33.38	0.039900	±2.5	PASS
EGPRS850	190	NV	20	34.58	0.041334	±2.5	PASS
EGPRS850	190	NV	30	33.93	0.040557	±2.5	PASS
EGPRS850	190	NV	40	34.26	0.040951	±2.5	PASS
EGPRS850	190	NV	50	34.35	0.041059	±2.5	PASS

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EGPRS850	251	NV	-20	35.81	0.042189	±2.5	PASS
EGPRS850	251	NV	-10	34.48	0.040622	±2.5	PASS
EGPRS850	251	NV	0	35.90	0.042295	±2.5	PASS
EGPRS850	251	NV	10	36.42	0.042908	±2.5	PASS
EGPRS850	251	NV	20	35.55	0.041883	±2.5	PASS
EGPRS850	251	NV	30	34.87	0.041082	±2.5	PASS
EGPRS850	251	NV	40	36.03	0.042448	±2.5	PASS
EGPRS850	251	NV	50	34.13	0.040210	±2.5	PASS
GSM850	128	NV	-30	21.37	0.025928	±2.5	PASS
GSM850	128	NV	-20	19.47	0.023623	±2.5	PASS
GSM850	128	NV	-10	19.18	0.023271	±2.5	PASS
GSM850	128	NV	0	16.63	0.020177	±2.5	PASS
GSM850	128	NV	10	20.95	0.025419	±2.5	PASS
GSM850	128	NV	20	17.53	0.021269	±2.5	PASS
GSM850	128	NV	30	18.14	0.022009	±2.5	PASS
GSM850	128	NV	40	17.98	0.021815	±2.5	PASS
GSM850	128	NV	50	19.47	0.023623	±2.5	PASS
GSM850	190	NV	-30	21.99	0.026285	±2.5	PASS
GSM850	190	NV	-20	19.37	0.023153	±2.5	PASS
GSM850	190	NV	-10	18.69	0.022340	±2.5	PASS
GSM850	190	NV	0	17.43	0.020834	±2.5	PASS
GSM850	190	NV	10	18.34	0.021922	±2.5	PASS
GSM850	190	NV	20	17.60	0.021038	±2.5	PASS
GSM850	190	NV	30	16.66	0.019914	±2.5	PASS
GSM850	190	NV	40	21.44	0.025628	±2.5	PASS
GSM850	190	NV	50	19.63	0.023464	±2.5	PASS
GSM850	251	NV	-30	25.67	0.030243	±2.5	PASS
GSM850	251	NV	-20	24.47	0.028829	±2.5	PASS
GSM850	251	NV	-10	28.48	0.033553	±2.5	PASS
GSM850	251	NV	0	24.41	0.028758	±2.5	PASS
GSM850	251	NV	10	27.99	0.032976	±2.5	PASS
GSM850	251	NV	20	26.47	0.031185	±2.5	PASS
GSM850	251	NV	30	26.76	0.031527	±2.5	PASS
GSM850	251	NV	40	27.12	0.031951	±2.5	PASS
GSM850	251	NV	50	27.22	0.032069	±2.5	PASS

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