

GSM 850&1900 Test Data

General Description of EUT	
EUT Name:	Smartphone
Model:	HiBreak Plus
Sample ID:	HC-C-202512-0174-08-01-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	45%RH
Test Voltage:	DC 3.85V
Test Engineer:	Gold. Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202512-0174-134 The report only show the worst case data.	

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1: Conducted Output Power Data

Test Result

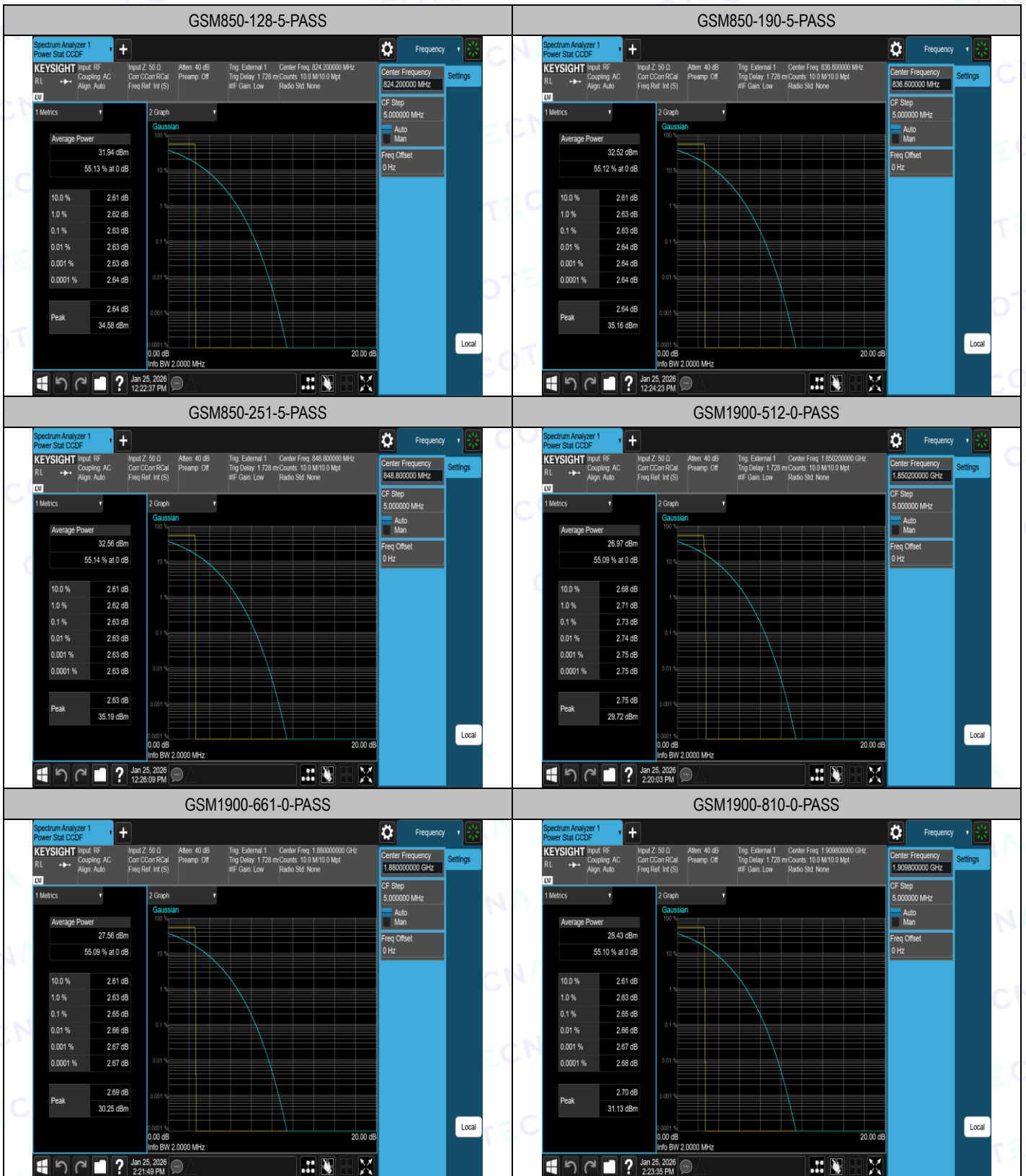
Band	Channel	ERP/EIRP(dBm)	Limit(dBm)	Verdict
GSM850	128	33.75	38.45	PASS
GSM850	190	34.17	38.45	PASS
GSM850	251	34.00	38.45	PASS
GSM1900	512	31.07	33	PASS
GSM1900	661	31.33	33	PASS
GSM1900	810	31.22	33	PASS

2: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	2.63	13	PASS
GSM850	190	2.63	13	PASS
GSM850	251	2.63	13	PASS
GSM1900	512	2.73	13	PASS
GSM1900	661	2.65	13	PASS
GSM1900	810	2.65	13	PASS

Test Graphs

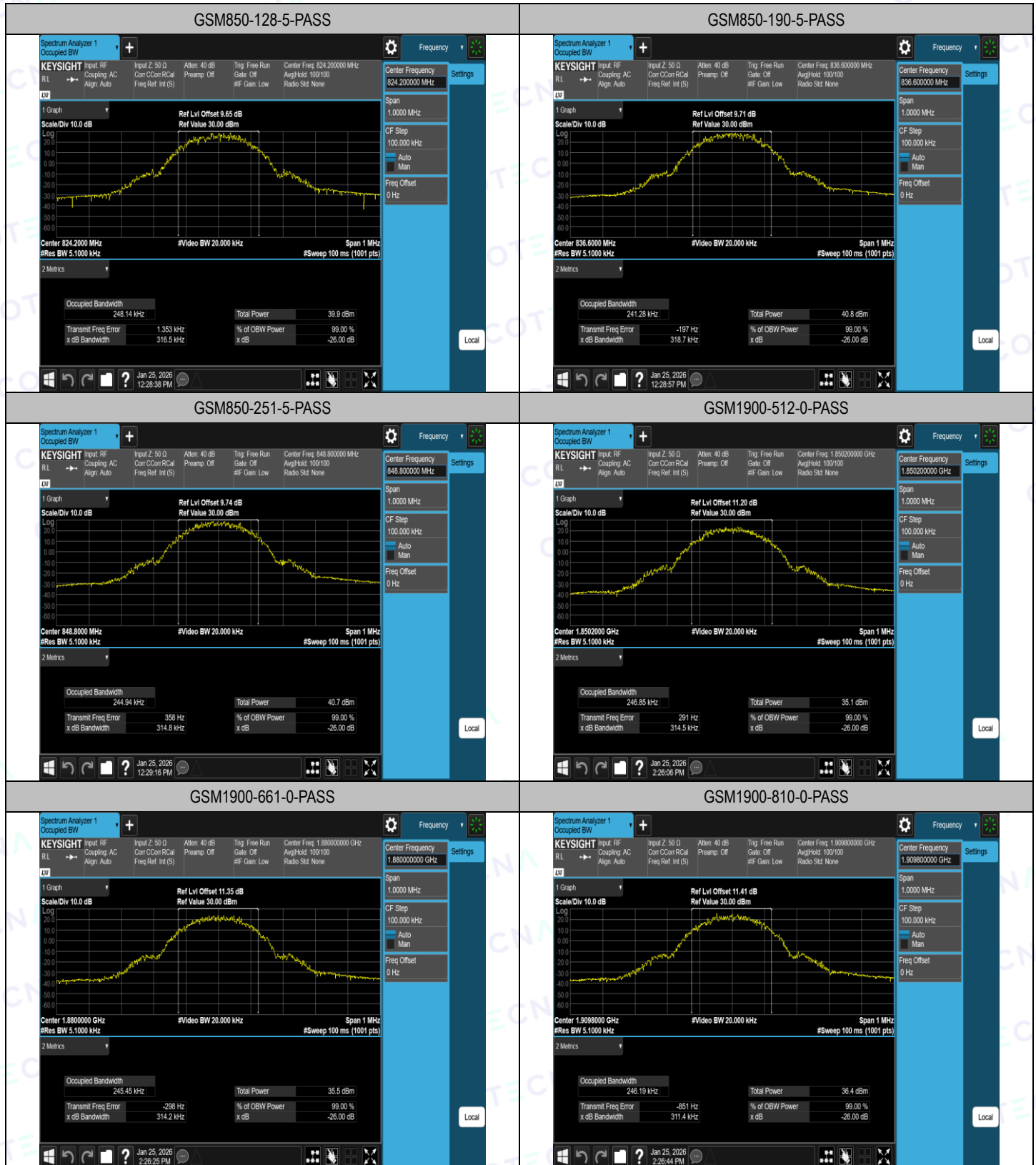


3: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24814	0.3165	---	PASS
GSM850	190	0.24128	0.3187	---	PASS
GSM850	251	0.24494	0.3148	---	PASS
GSM1900	512	0.24685	0.3145	---	PASS
GSM1900	661	0.24545	0.3142	---	PASS
GSM1900	810	0.24619	0.3114	---	PASS

Test Graphs



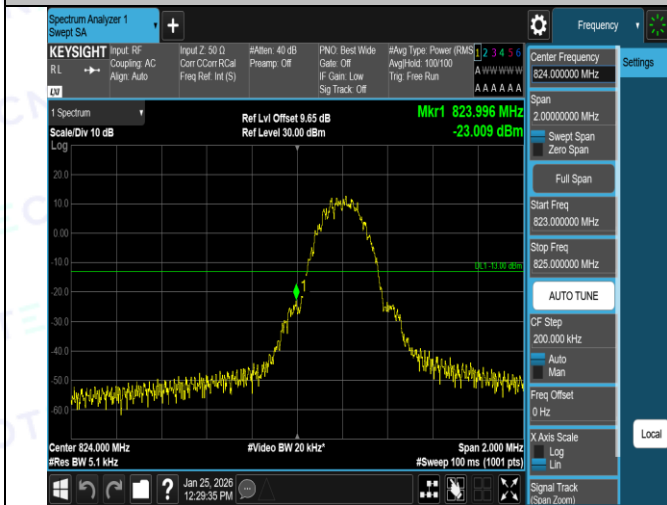
4: Band Edge

Test Result

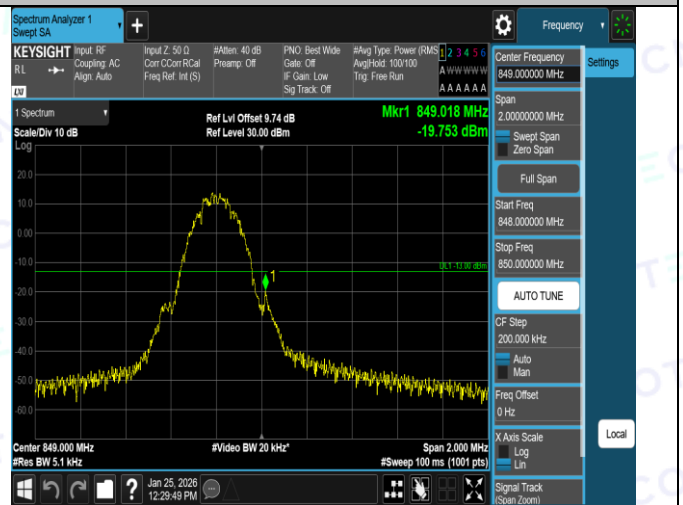
Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	824.00	-23.01	-13	PASS
GSM850	251	849.02	-19.75	-13	PASS
GSM1900	512	1850.00	-28.01	-13	PASS
GSM1900	810	1910.02	-25.46	-13	PASS

Test Graphs

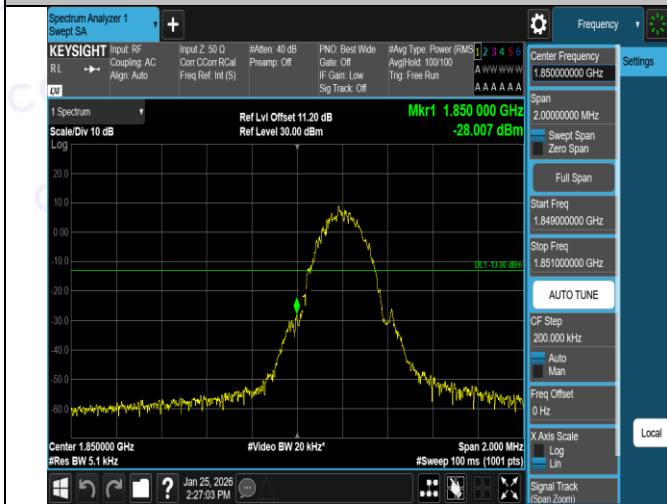
GSM850-128-5-PASS



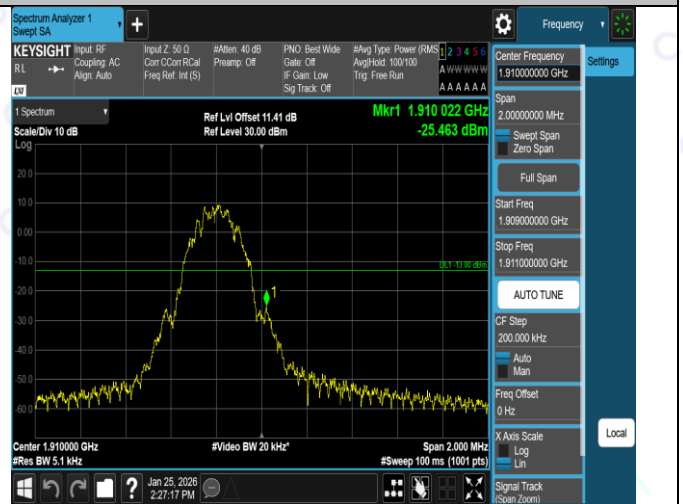
GSM850-251-5-PASS



GSM1900-512-0-PASS



GSM1900-810-0-PASS

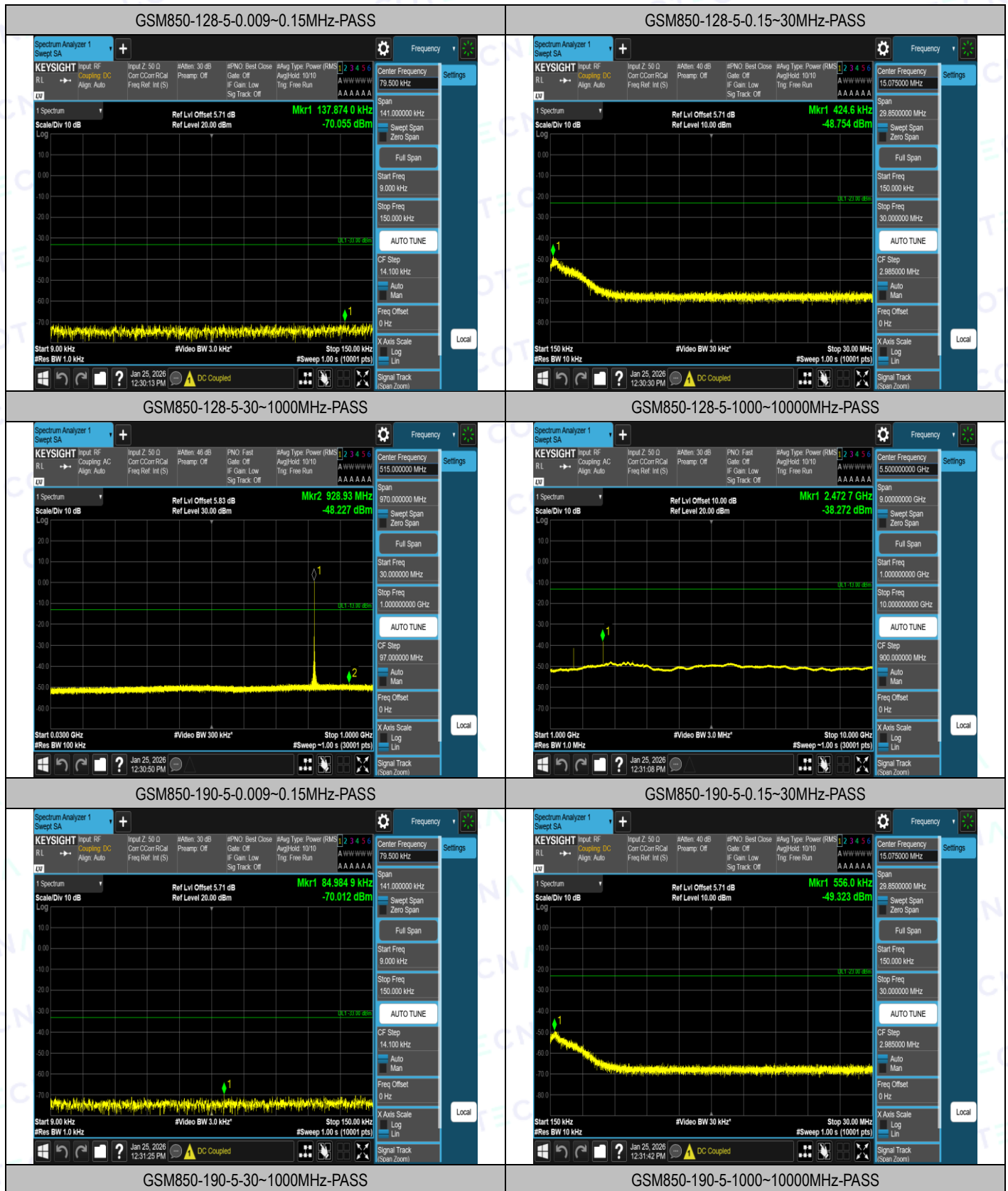


5: Conducted Spurious Emission

Test Result

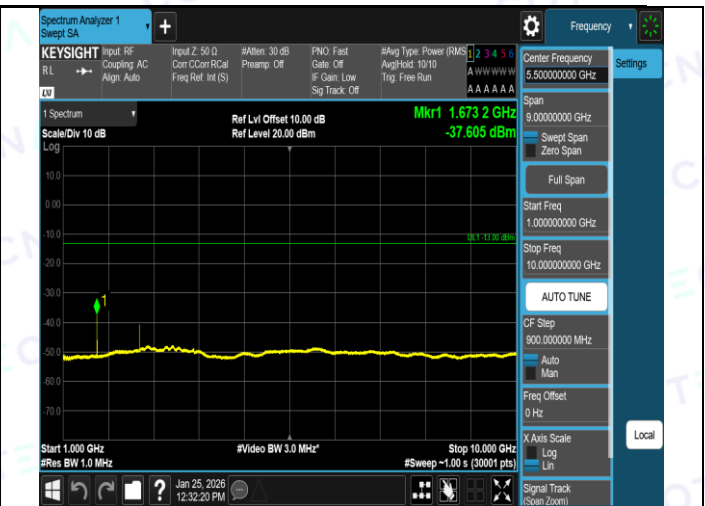
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.14	-70.06	-33	PASS
GSM850	128	0.15~30MHz	0.42	-48.75	-23	PASS
GSM850	128	30~1000MHz	928.93	-48.23	-13	PASS
GSM850	128	1000~10000MHz	2472.7	-38.27	-13	PASS
GSM850	190	0.009~0.15MHz	0.08	-70.01	-33	PASS
GSM850	190	0.15~30MHz	0.56	-49.32	-23	PASS
GSM850	190	30~1000MHz	432.65	-47.97	-13	PASS
GSM850	190	1000~10000MHz	1673.2	-37.61	-13	PASS
GSM850	251	0.009~0.15MHz	0.15	-70.06	-33	PASS
GSM850	251	0.15~30MHz	0.63	-49.08	-23	PASS
GSM850	251	30~1000MHz	727.59	-48.26	-13	PASS
GSM850	251	1000~10000MHz	1697.5	-39.67	-13	PASS
GSM1900	512	0.009~0.15MHz	0.15	-70.19	-43	PASS
GSM1900	512	0.15~30MHz	0.63	-49.19	-33	PASS
GSM1900	512	30~1000MHz	892.2	-45.31	-13	PASS
GSM1900	512	1000~3000MHz	2685	-31.66	-13	PASS
GSM1900	512	3000~18000MHz	16484	-40.75	-13	PASS
GSM1900	661	0.009~0.15MHz	0.13	-69.74	-43	PASS
GSM1900	661	0.15~30MHz	0.5	-48.61	-33	PASS
GSM1900	661	30~1000MHz	890.68	-45.36	-13	PASS
GSM1900	661	1000~3000MHz	2686.4	-31.73	-13	PASS
GSM1900	661	3000~18000MHz	16353	-40.7	-13	PASS
GSM1900	810	0.009~0.15MHz	0.12	-69.43	-43	PASS
GSM1900	810	0.15~30MHz	0.54	-48.22	-33	PASS
GSM1900	810	30~1000MHz	894.17	-45.29	-13	PASS
GSM1900	810	1000~3000MHz	2683.27	-31.68	-13	PASS
GSM1900	810	3000~18000MHz	16443	-40.54	-13	PASS

Test Graphs

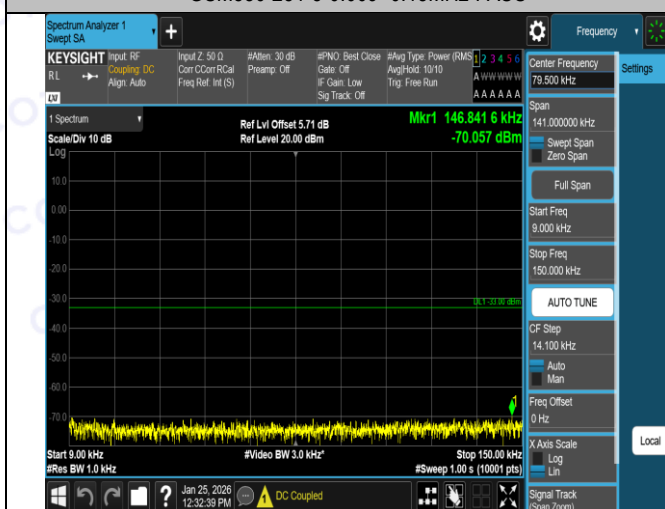




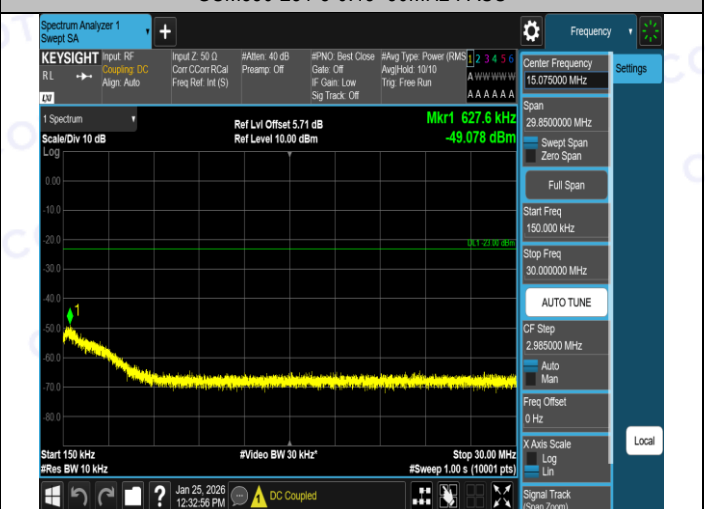
GSM850-251-5-0.009~0.15MHz-PASS



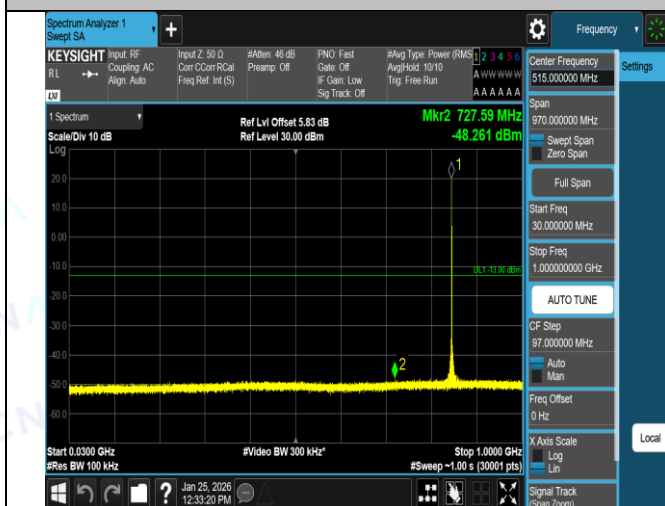
GSM850-251-5-0.15~30MHz-PASS



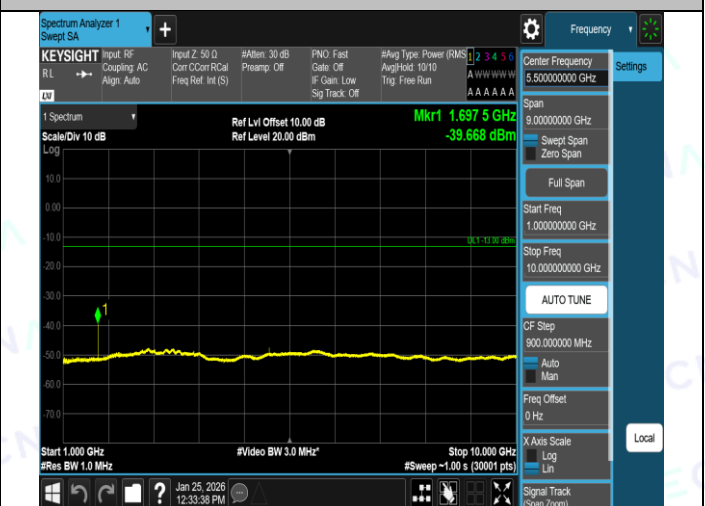
GSM850-251-5-30~1000MHz-PASS



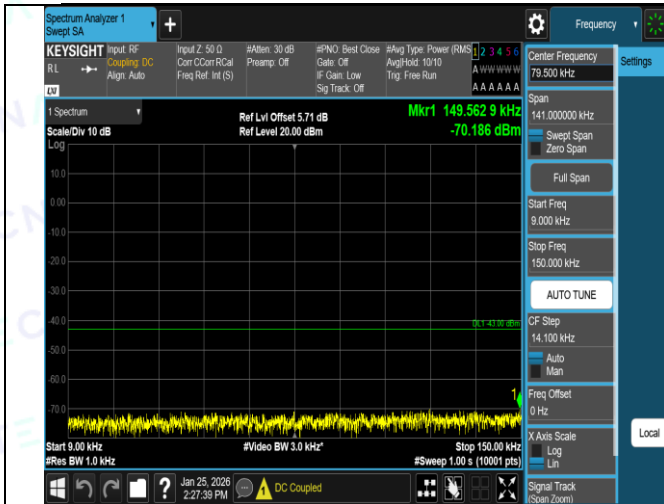
GSM850-251-5-1000~10000MHz-PASS



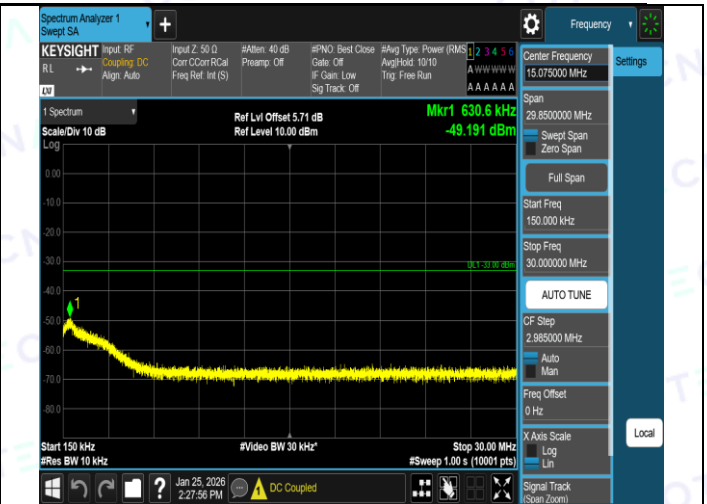
GSM1900-512-0-0.009~0.15MHz-PASS



GSM1900-512-0-0.15~30MHz-PASS



GSM1900-512-0-30~1000MHz-PASS



GSM1900-512-0-1000~3000MHz-PASS



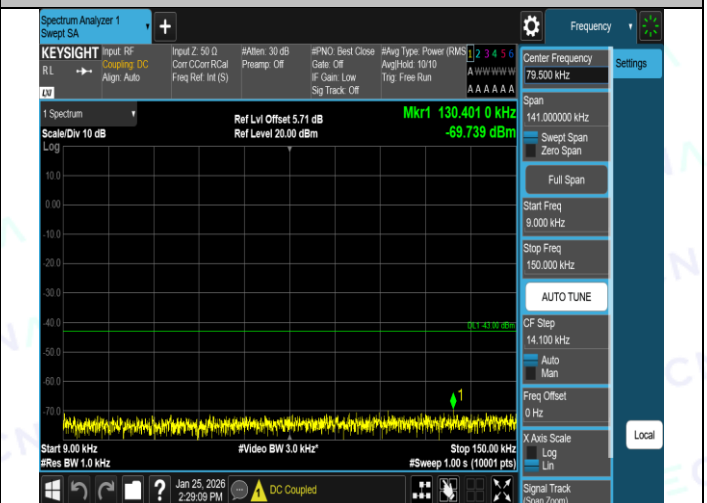
GSM1900-512-0-3000~18000MHz-PASS



GSM1900-661-0-0.009~0.15MHz-PASS



GSM1900-661-0-0.15~30MHz-PASS



GSM1900-661-0-30~1000MHz-PASS



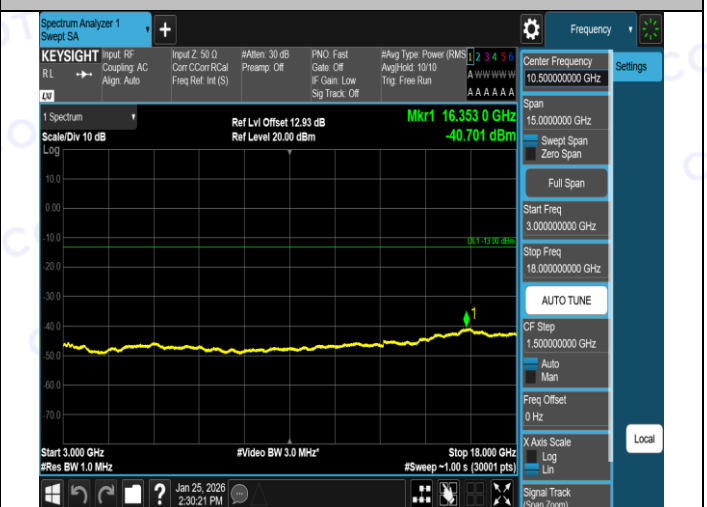
GSM1900-661-0-1000~3000MHz-PASS



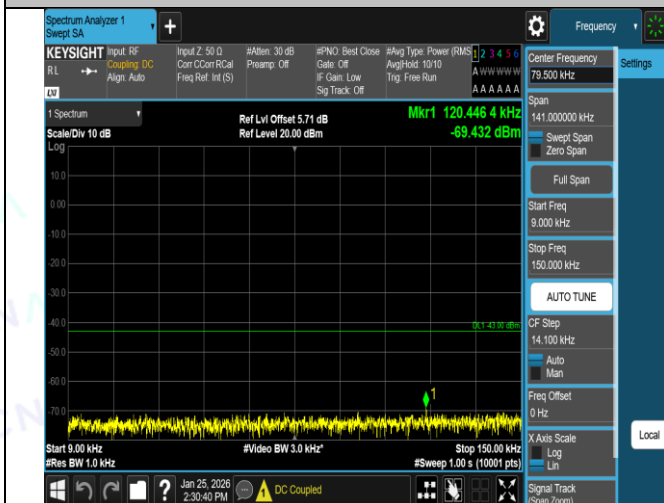
GSM1900-661-0-3000~18000MHz-PASS



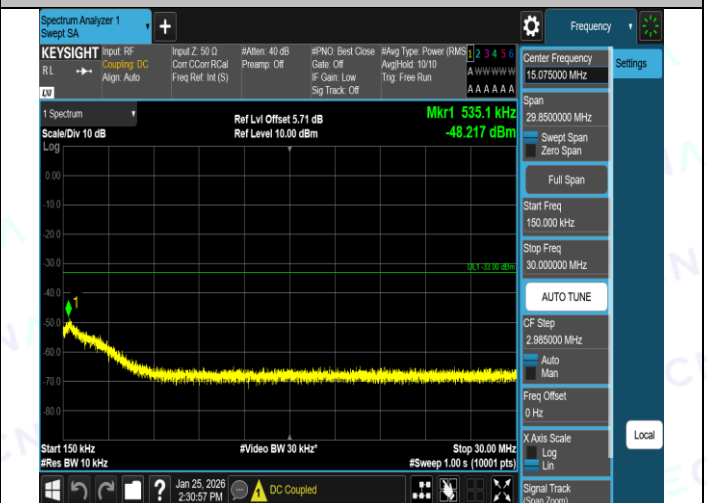
GSM1900-810-0-0.009~0.15MHz-PASS



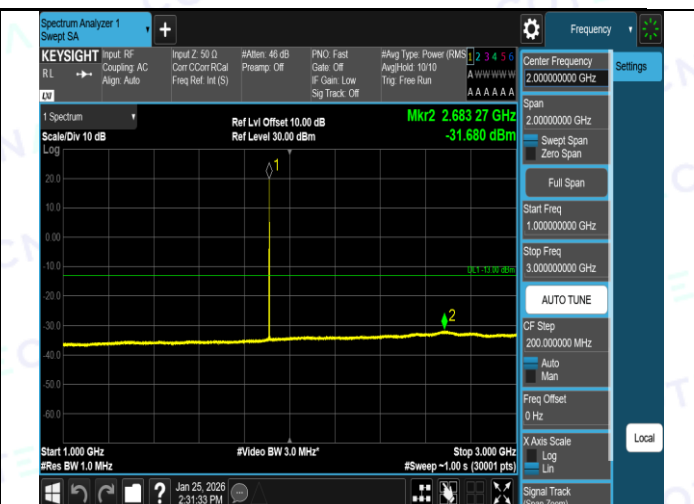
GSM1900-810-0-0.15~30MHz-PASS



GSM1900-810-0-30~1000MHz-PASS



GSM1900-810-0-1000~3000MHz-PASS



GSM1900-810-0-3000~18000MHz-PASS



6: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	NT	-7.49	-0.009088	±2.5	PASS
GSM850	128	VL	NT	-9.75	-0.011830	±2.5	PASS
GSM850	128	VH	NT	-7.23	-0.008772	±2.5	PASS
GSM850	190	VN	NT	-6.46	-0.007722	±2.5	PASS
GSM850	190	VL	NT	-4.84	-0.005785	±2.5	PASS
GSM850	190	VH	NT	-7.07	-0.008451	±2.5	PASS
GSM850	251	VN	NT	-6.42	-0.007564	±2.5	PASS
GSM850	251	VL	NT	-7.36	-0.008671	±2.5	PASS
GSM850	251	VH	NT	-4.88	-0.005749	±2.5	PASS
GSM1900	512	VN	NT	-2.74	-0.001481	±2.5	PASS
GSM1900	512	VL	NT	-0.68	-0.000368	±2.5	PASS
GSM1900	512	VH	NT	-4.88	-0.002638	±2.5	PASS
GSM1900	661	VN	NT	-1.39	-0.000739	±2.5	PASS
GSM1900	661	VL	NT	-5.07	-0.002697	±2.5	PASS
GSM1900	661	VH	NT	-1.65	-0.000878	±2.5	PASS
GSM1900	810	VN	NT	-8.43	-0.004414	±2.5	PASS
GSM1900	810	VL	NT	-4.42	-0.002314	±2.5	PASS
GSM1900	810	VH	NT	-3.45	-0.001806	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	-9.36	-0.011356	±2.5	PASS
GSM850	128	NV	-20	-6.39	-0.007753	±2.5	PASS
GSM850	128	NV	-10	-9.14	-0.011090	±2.5	PASS
GSM850	128	NV	0	-6.75	-0.008190	±2.5	PASS
GSM850	128	NV	10	-7.91	-0.009597	±2.5	PASS
GSM850	128	NV	20	-9.49	-0.011514	±2.5	PASS
GSM850	128	NV	30	-13.30	-0.016137	±2.5	PASS
GSM850	128	NV	40	-11.30	-0.013710	±2.5	PASS
GSM850	128	NV	50	-10.46	-0.012691	±2.5	PASS
GSM850	190	NV	-30	-5.71	-0.006825	±2.5	PASS
GSM850	190	NV	-20	-9.65	-0.011535	±2.5	PASS
GSM850	190	NV	-10	-4.00	-0.004781	±2.5	PASS
GSM850	190	NV	0	-6.91	-0.008260	±2.5	PASS
GSM850	190	NV	10	-6.01	-0.007184	±2.5	PASS
GSM850	190	NV	20	-7.04	-0.008415	±2.5	PASS
GSM850	190	NV	30	-7.20	-0.008606	±2.5	PASS
GSM850	190	NV	40	-7.33	-0.008762	±2.5	PASS
GSM850	190	NV	50	-6.91	-0.008260	±2.5	PASS
GSM850	251	NV	-30	-5.10	-0.006008	±2.5	PASS
GSM850	251	NV	-20	-9.01	-0.010615	±2.5	PASS
GSM850	251	NV	-10	-6.23	-0.007340	±2.5	PASS
GSM850	251	NV	0	-10.72	-0.012630	±2.5	PASS
GSM850	251	NV	10	-5.78	-0.006810	±2.5	PASS
GSM850	251	NV	20	-7.20	-0.008483	±2.5	PASS
GSM850	251	NV	30	-5.13	-0.006044	±2.5	PASS
GSM850	251	NV	40	-6.07	-0.007151	±2.5	PASS
GSM850	251	NV	50	-6.68	-0.007870	±2.5	PASS
GSM1900	512	NV	-30	-1.94	-0.001049	±2.5	PASS
GSM1900	512	NV	-20	-5.46	-0.002951	±2.5	PASS
GSM1900	512	NV	-10	-0.58	-0.000313	±2.5	PASS
GSM1900	512	NV	0	-3.03	-0.001638	±2.5	PASS
GSM1900	512	NV	10	-1.55	-0.000838	±2.5	PASS
GSM1900	512	NV	20	-0.77	-0.000416	±2.5	PASS
GSM1900	512	NV	30	4.16	0.002248	±2.5	PASS
GSM1900	512	NV	40	0.42	0.000227	±2.5	PASS
GSM1900	512	NV	50	3.94	0.002129	±2.5	PASS
GSM1900	661	NV	-30	-1.13	-0.000601	±2.5	PASS
GSM1900	661	NV	-20	-3.23	-0.001718	±2.5	PASS
GSM1900	661	NV	-10	-1.78	-0.000947	±2.5	PASS
GSM1900	661	NV	0	-1.94	-0.001032	±2.5	PASS
GSM1900	661	NV	10	-2.87	-0.001527	±2.5	PASS

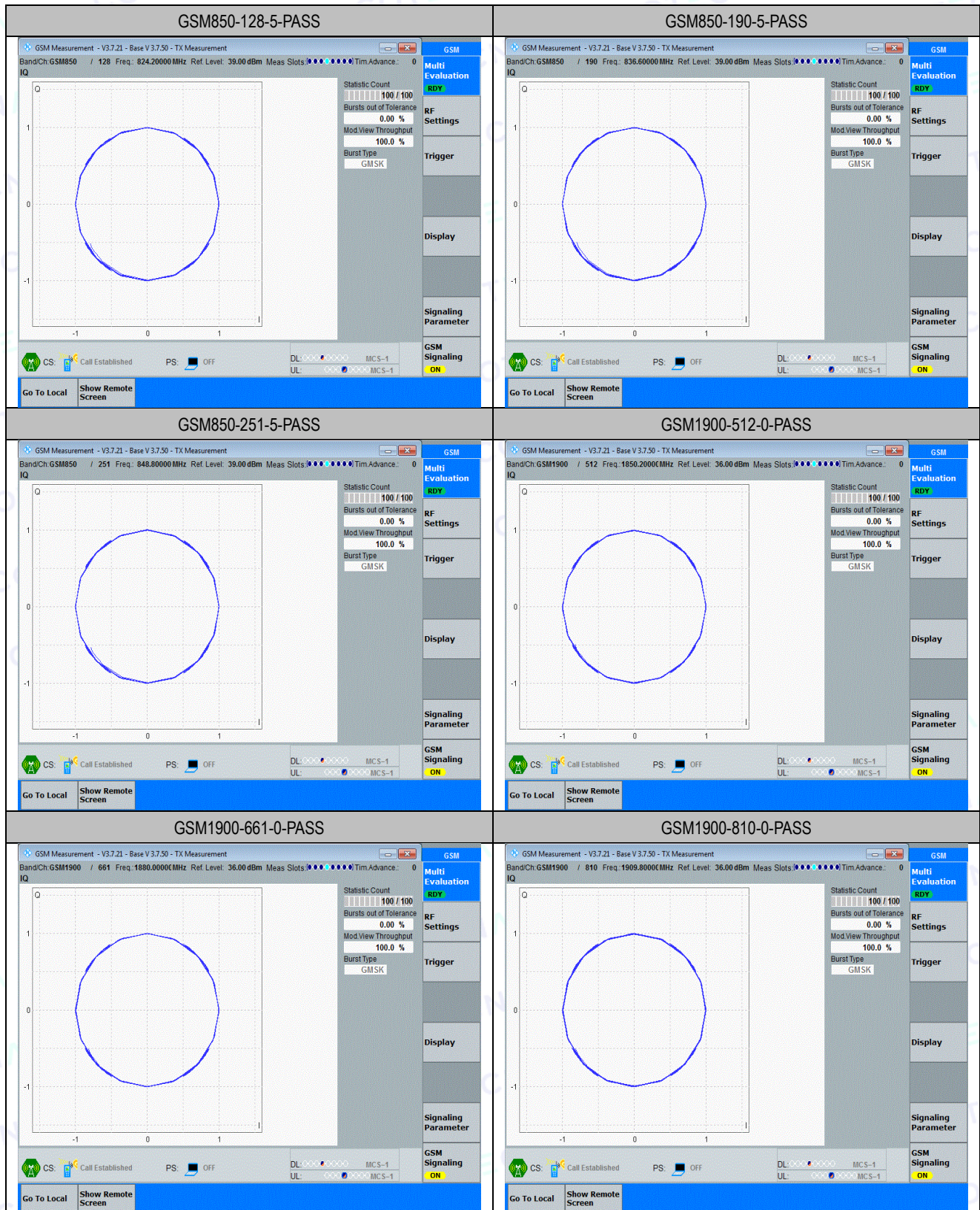
GSM1900	661	NV	20	-4.16	-0.002213	±2.5	PASS
GSM1900	661	NV	30	-0.71	-0.000378	±2.5	PASS
GSM1900	661	NV	40	4.84	0.002574	±2.5	PASS
GSM1900	661	NV	50	-2.20	-0.001170	±2.5	PASS
GSM1900	810	NV	-30	-3.58	-0.001875	±2.5	PASS
GSM1900	810	NV	-20	-5.59	-0.002927	±2.5	PASS
GSM1900	810	NV	-10	2.68	0.001403	±2.5	PASS
GSM1900	810	NV	0	-1.65	-0.000864	±2.5	PASS
GSM1900	810	NV	10	-3.20	-0.001676	±2.5	PASS
GSM1900	810	NV	20	-2.81	-0.001471	±2.5	PASS
GSM1900	810	NV	30	-2.20	-0.001152	±2.5	PASS
GSM1900	810	NV	40	-9.33	-0.004885	±2.5	PASS
GSM1900	810	NV	50	-7.78	-0.004074	±2.5	PASS

7: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
GSM850	128	PASS	PASS
GSM850	190	PASS	PASS
GSM850	251	PASS	PASS
GSM1900	512	PASS	PASS
GSM1900	661	PASS	PASS
GSM1900	810	PASS	PASS

Test Graphs



-----END OF THE REPORT-----