

GSM 850&1900 Test Data

General of EUT	
Product Name:	SILO-HW-CELL
Test Model:	SILO-FILL-CELL
Sample No.:	HC-C-202312-0122-01-01-2#
standard:	FCC Part 2 FCC Part 22 Subpart H FCC Part 24 Subpart E RSS-132 Issue 4 RSS-133 Issue 7
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 4.5V
Test Engineer:	Rick.chen
Note: For a more detailed features description, please refer to the report TBR-C-202312-0122-6 . The report only show the worst case data.	

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1: Conducted Output Power Data

Test Result

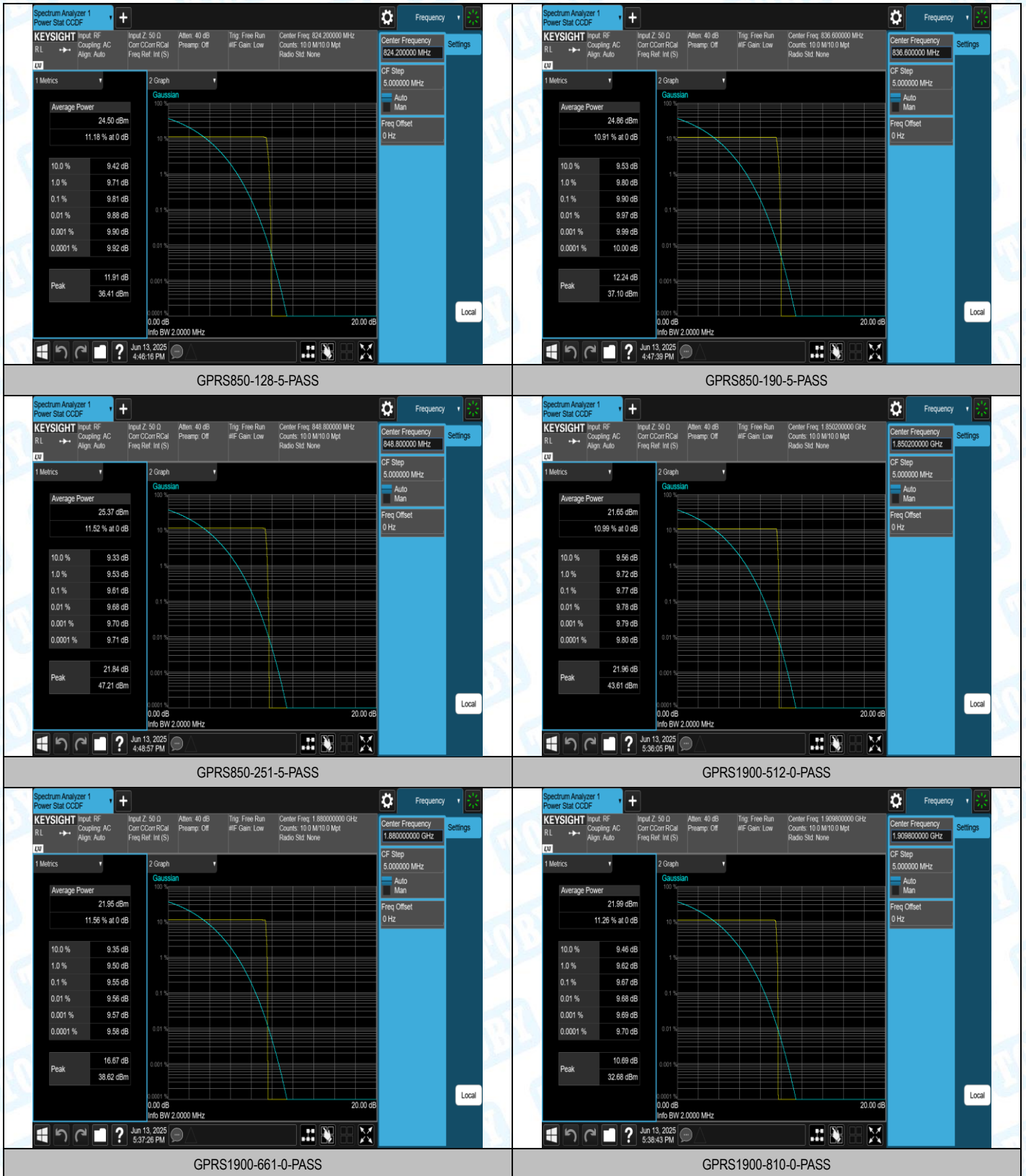
Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	32.05	34.77	PASS
GPRS850	190	1	33.85	34.77	PASS
GPRS850	251	1	33.74	34.77	PASS
GPRS850	128	2	31.46	34.77	PASS
GPRS850	190	2	31.72	34.77	PASS
GPRS850	251	2	31.75	34.77	PASS
GPRS850	128	3	29.52	34.77	PASS
GPRS850	190	3	29.79	34.77	PASS
GPRS850	251	3	29.83	34.77	PASS
GPRS850	128	4	27.46	34.77	PASS
GPRS850	190	4	27.69	34.77	PASS
GPRS850	251	4	27.70	34.77	PASS
GPRS1900	512	1	27.26	33.00	PASS
GPRS1900	661	1	30.13	33.00	PASS
GPRS1900	810	1	30.41	33.00	PASS
GPRS1900	512	2	28.28	33.00	PASS
GPRS1900	661	2	27.82	33.00	PASS
GPRS1900	810	2	27.87	33.00	PASS
GPRS1900	512	3	26.73	33.00	PASS
GPRS1900	661	3	26.32	33.00	PASS
GPRS1900	810	3	26.34	33.00	PASS
GPRS1900	512	4	24.58	33.00	PASS
GPRS1900	661	4	24.20	33.00	PASS
GPRS1900	810	4	24.24	33.00	PASS

2: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GPRS850	128	9.81	13	PASS
GPRS850	190	9.90	13	PASS
GPRS850	251	9.61	13	PASS
GPRS1900	512	9.77	13	PASS
GPRS1900	661	9.55	13	PASS
GPRS1900	810	9.67	13	PASS

Test Graphs



3: 26dB Bandwidth and Occupied Bandwidth

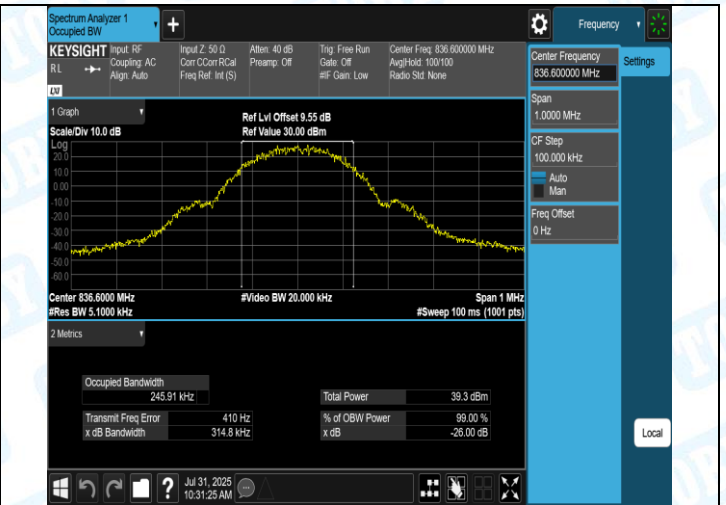
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	128	0.24424	0.3158	---	PASS
GPRS850	190	0.24591	0.3148	---	PASS
GPRS850	251	0.24376	0.3132	---	PASS
GPRS1900	512	0.24455	0.3129	---	PASS
GPRS1900	661	0.24390	0.3130	---	PASS
GPRS1900	810	0.24302	0.3183	---	PASS

Test Graphs



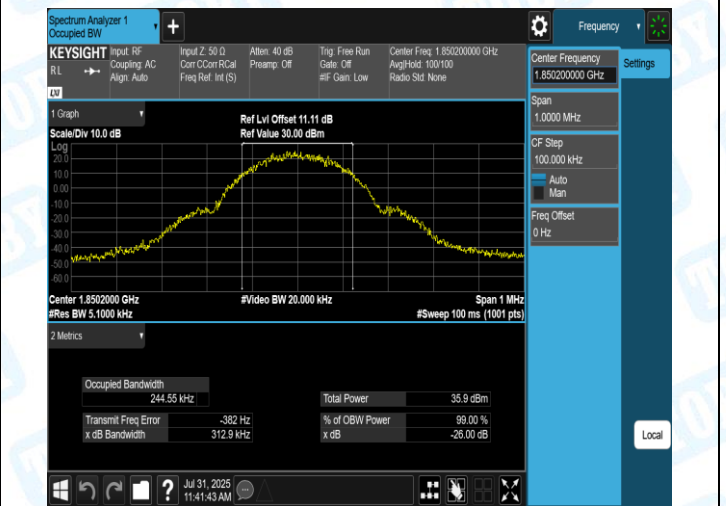
GPRS850-128-5-PASS



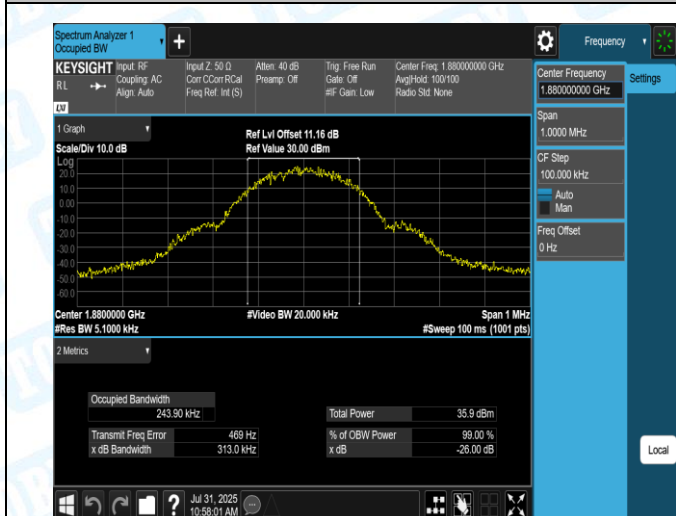
GPRS850-190-5-PASS



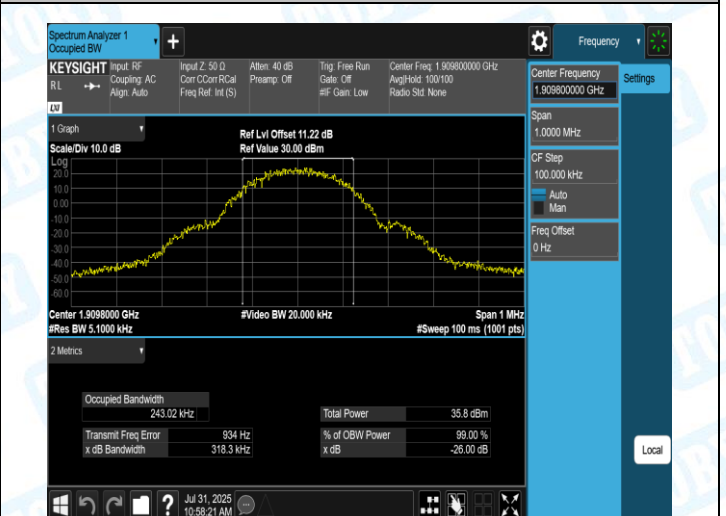
GPRS850-251-5-PASS



GPRS1900-512-0-PASS



GPRS1900-661-0-PASS



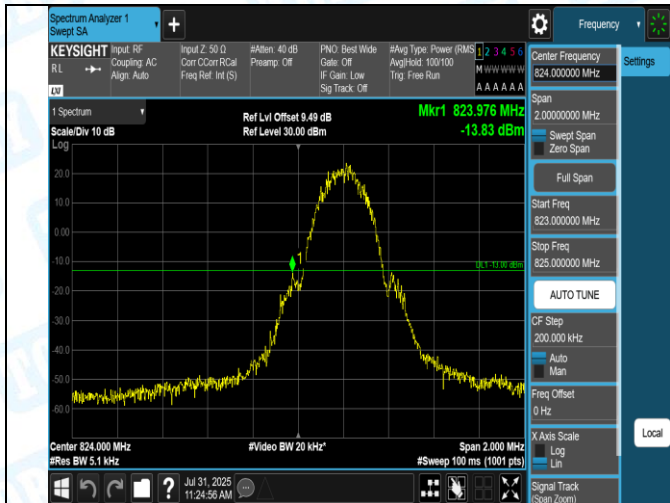
GPRS1900-810-0-PASS

4: Band Edge

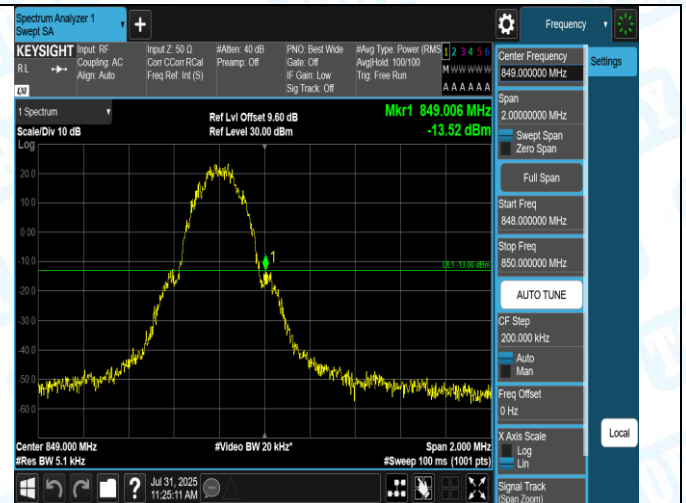
Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS850	128	823.98	-13.83	-13	PASS
GPRS850	251	849.01	-13.52	-13	PASS
GPRS1900	512	1849.98	-14.98	-13	PASS
GPRS1900	810	1910.02	-14.78	-13	PASS

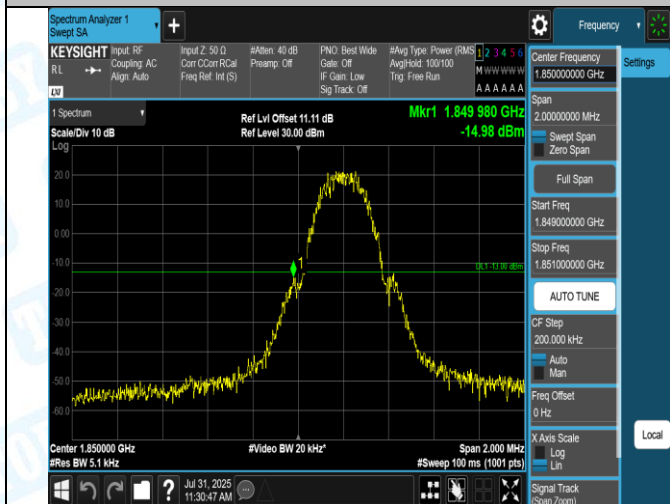
Test Graphs



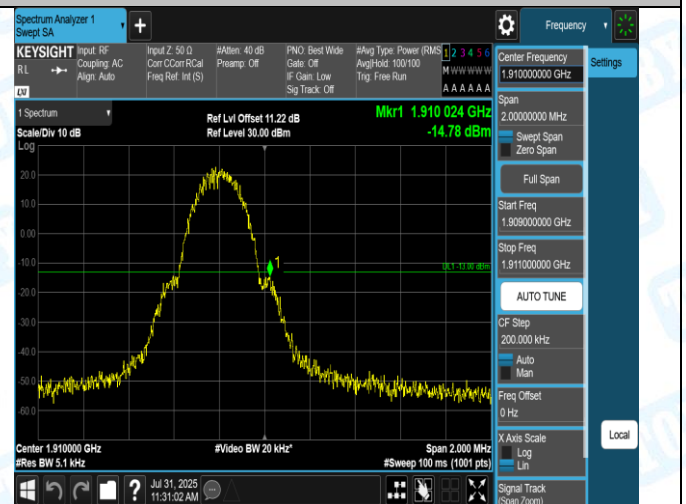
GPRS850-128-5-PASS



GPRS850-251-5-PASS



GPRS1900-512-0-PASS



GPRS1900-810-0-PASS

5: Conducted Spurious Emission

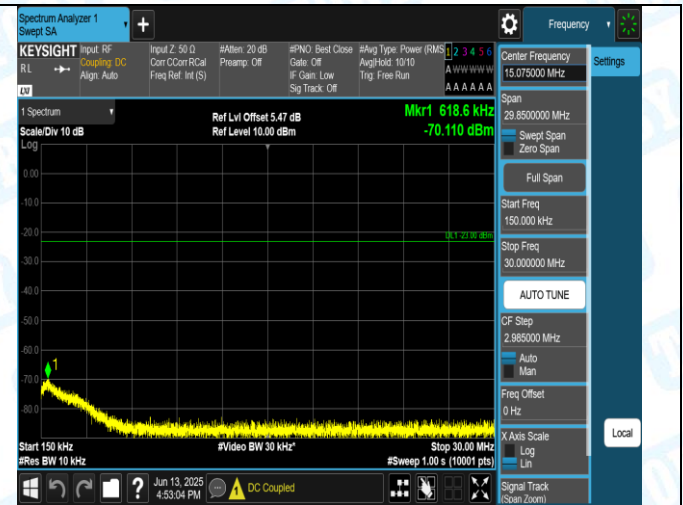
Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS850	128	0.009~0.15MHz	0.01	-66.62	-33	PASS
GPRS850	128	0.15~30MHz	0.62	-70.11	-23	PASS
GPRS850	128	30~1000MHz	979.27	-47.55	-13	PASS
GPRS850	128	1000~10000MHz	2472.4	-33.14	-13	PASS
GPRS850	190	0.009~0.15MHz	0.01	-65.1	-33	PASS
GPRS850	190	0.15~30MHz	0.52	-69.87	-23	PASS
GPRS850	190	30~1000MHz	486.39	-47.58	-13	PASS
GPRS850	190	1000~10000MHz	2510.2	-37.5	-13	PASS
GPRS850	251	0.009~0.15MHz	0.01	-64.46	-33	PASS
GPRS850	251	0.15~30MHz	0.63	-69.09	-23	PASS
GPRS850	251	30~1000MHz	721.38	-47.82	-13	PASS
GPRS850	251	1000~10000MHz	2546.2	-35.97	-13	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-70.94	-43	PASS
GPRS1900	512	0.15~30MHz	0.51	-69.29	-33	PASS
GPRS1900	512	30~1000MHz	880.85	-45.37	-13	PASS
GPRS1900	512	1000~3000MHz	2697.73	-31.43	-13	PASS
GPRS1900	512	3000~18000MHz	16356	-50.03	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-70.8	-43	PASS
GPRS1900	661	0.15~30MHz	0.61	-69.6	-33	PASS
GPRS1900	661	30~1000MHz	989.2	-45.38	-13	PASS
GPRS1900	661	1000~3000MHz	2701.4	-31.52	-13	PASS
GPRS1900	661	3000~18000MHz	5640	-46.49	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-72.58	-43	PASS
GPRS1900	810	0.15~30MHz	0.63	-69.72	-33	PASS
GPRS1900	810	30~1000MHz	876.29	-45.41	-13	PASS
GPRS1900	810	1000~3000MHz	2680.8	-31.55	-13	PASS
GPRS1900	810	3000~18000MHz	5729.5	-42.54	-13	PASS

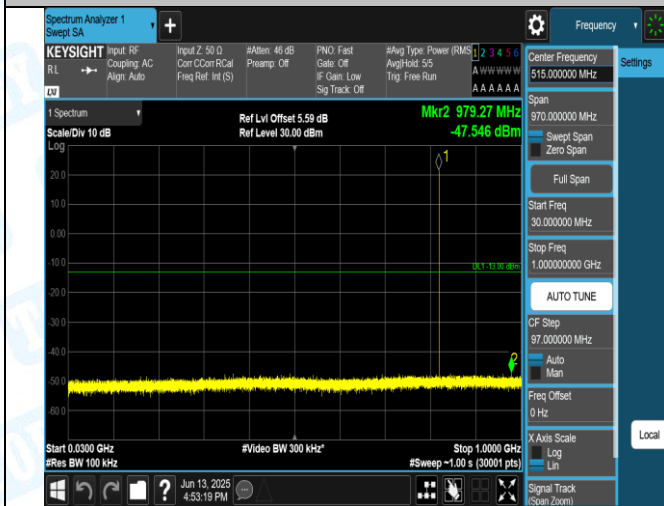
Test Graphs



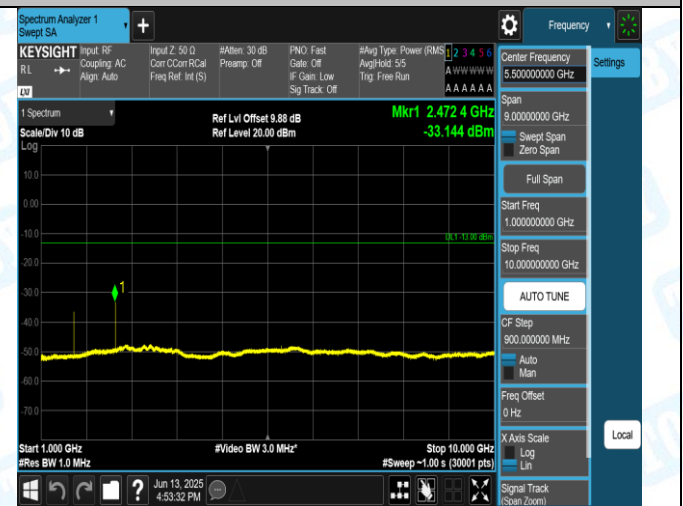
GPRS850-128-5-0.009~0.15MHz-PASS



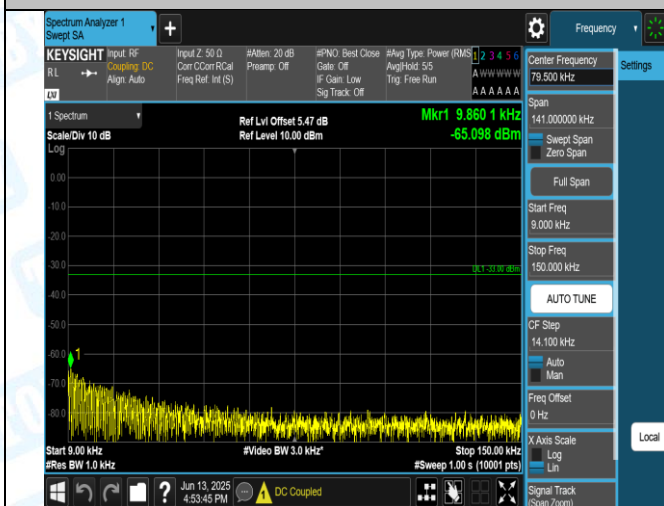
GPRS850-128-5-0.15~30MHz-PASS



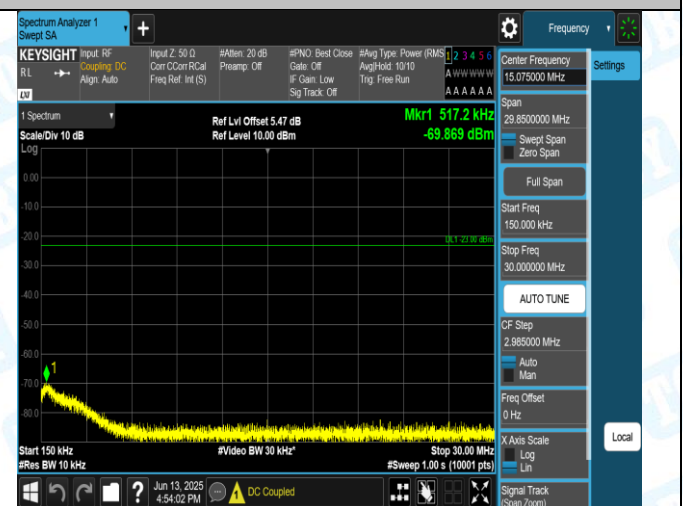
GPRS850-128-5-30~1000MHz-PASS



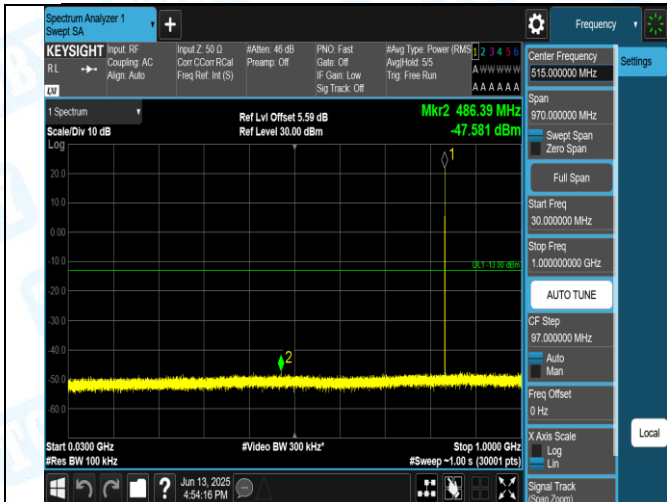
GPRS850-128-5-1000~10000MHz-PASS



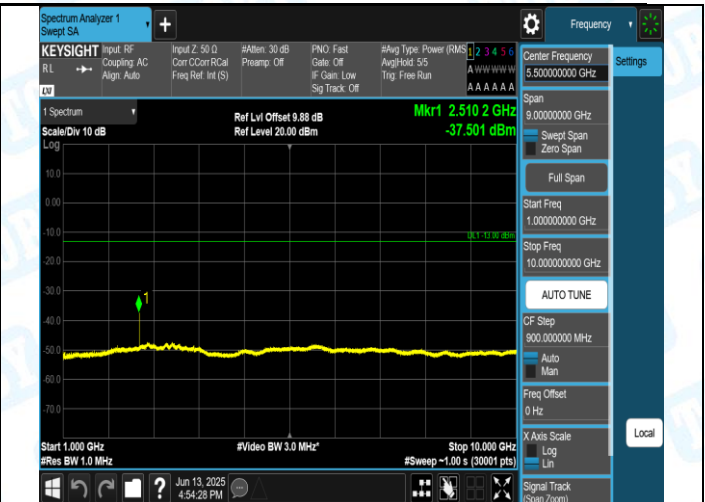
GPRS850-190-5-0.009~0.15MHz-PASS



GPRS850-190-5-0.15~30MHz-PASS



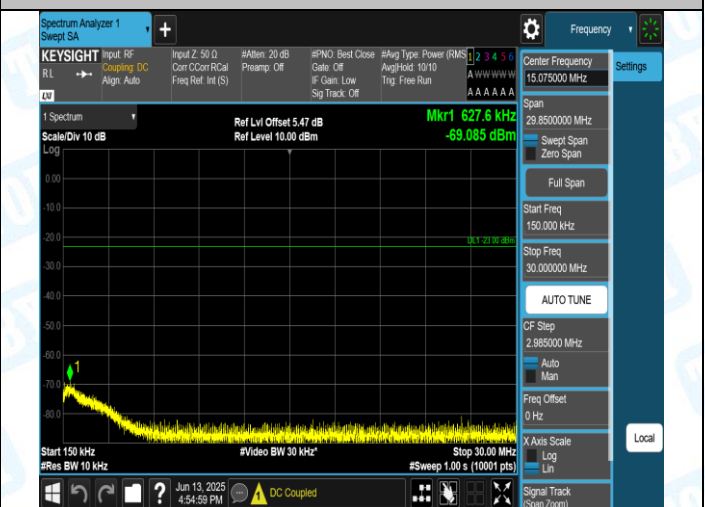
GPRS850-190-5-30~1000MHz-PASS



GPRS850-190-5-1000~10000MHz-PASS



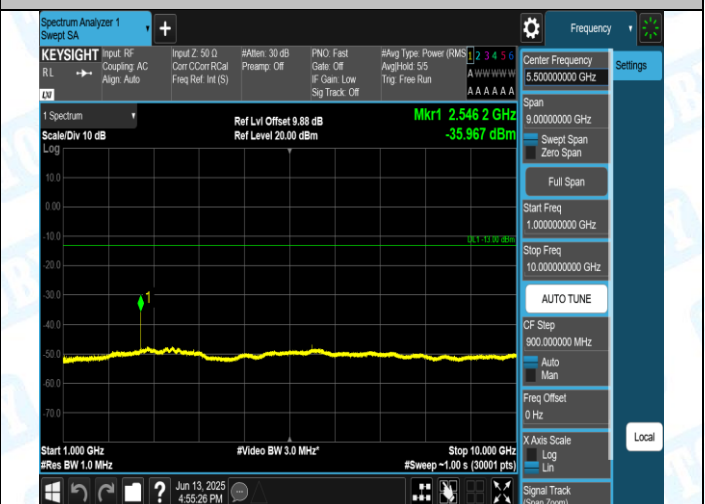
GPRS850-251-5-0.009~0.15MHz-PASS



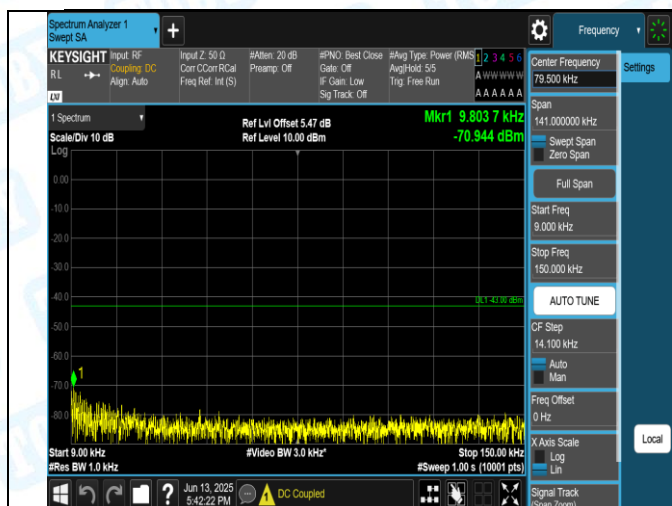
GPRS850-251-5-0.15~30MHz-PASS



GPRS850-251-5-30~1000MHz-PASS



GPRS850-251-5-1000~10000MHz-PASS



GPRS1900-512-0-0.009~0.15MHz-PASS



GPRS1900-512-0-0.15~30MHz-PASS



GPRS1900-512-0-30~1000MHz-PASS



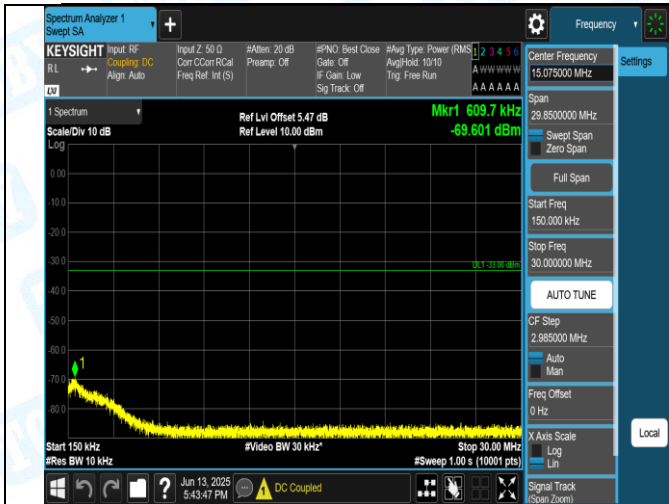
GPRS1900-512-0-1000~3000MHz-PASS



GPRS1900-512-0-3000~18000MHz-PASS



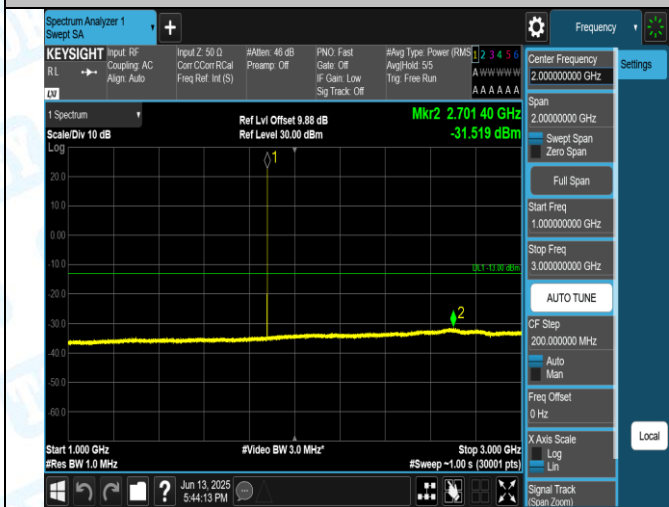
GPRS1900-661-0-0.009~0.15MHz-PASS



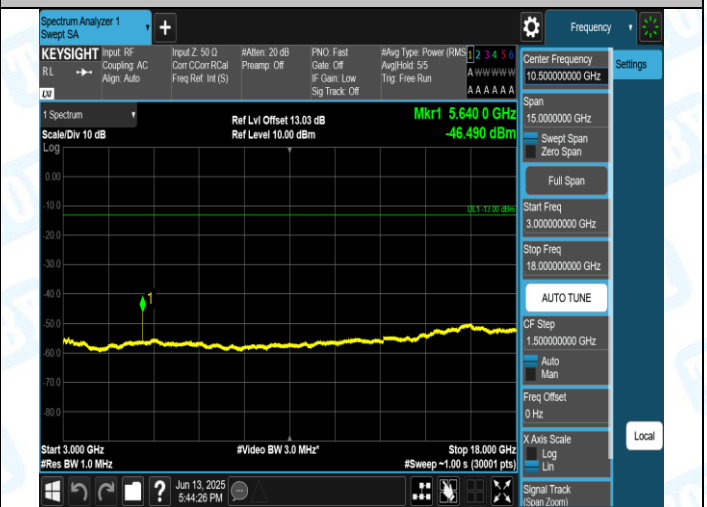
GPRS1900-661-0-0.15~30MHz-PASS



GPRS1900-661-0-30~1000MHz-PASS



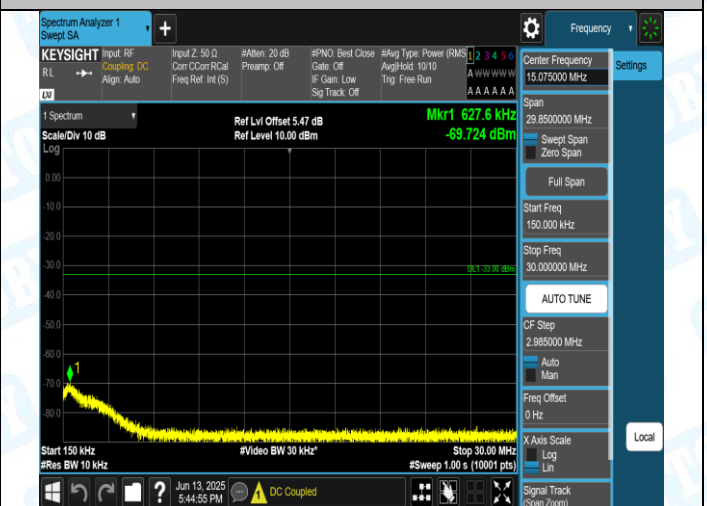
GPRS1900-661-0-1000~3000MHz-PASS



GPRS1900-661-0-3000~18000MHz-PASS



GPRS1900-810-0-0.009~0.15MHz-PASS



GPRS1900-810-0-0.15~30MHz-PASS



GPRS1900-810-0-30~1000MHz-PASS



GPRS1900-810-0-1000~3000MHz-PASS



GPRS1900-810-0-3000~18000MHz-PASS



6: Frequency Stability

Test Result

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	NV	-30	17.36	0.021063	±2.5	PASS
GPRS850	128	NV	-20	17.40	0.021111	±2.5	PASS
GPRS850	128	NV	-10	17.18	0.020844	±2.5	PASS
GPRS850	128	NV	0	18.00	0.021839	±2.5	PASS
GPRS850	128	NV	10	19.48	0.023635	±2.5	PASS
GPRS850	128	NV	20	17.87	0.021682	±2.5	PASS
GPRS850	128	NV	30	15.70	0.019049	±2.5	PASS
GPRS850	128	NV	40	16.54	0.020068	±2.5	PASS
GPRS850	128	NV	50	13.99	0.016974	±2.5	PASS
GPRS850	190	NV	-30	18.85	0.022532	±2.5	PASS
GPRS850	190	NV	-20	13.04	0.015587	±2.5	PASS
GPRS850	190	NV	-10	17.97	0.021480	±2.5	PASS
GPRS850	190	NV	0	18.48	0.022089	±2.5	PASS
GPRS850	190	NV	10	19.87	0.023751	±2.5	PASS
GPRS850	190	NV	20	21.54	0.025747	±2.5	PASS
GPRS850	190	NV	30	24.24	0.028974	±2.5	PASS
GPRS850	190	NV	40	19.87	0.023751	±2.5	PASS
GPRS850	190	NV	50	17.86	0.021348	±2.5	PASS
GPRS850	251	NV	-30	13.07	0.015398	±2.5	PASS
GPRS850	251	NV	-20	15.96	0.018803	±2.5	PASS
GPRS850	251	NV	-10	17.16	0.020217	±2.5	PASS
GPRS850	251	NV	0	14.58	0.017177	±2.5	PASS
GPRS850	251	NV	10	15.90	0.018732	±2.5	PASS
GPRS850	251	NV	20	16.04	0.018897	±2.5	PASS
GPRS850	251	NV	30	16.56	0.019510	±2.5	PASS
GPRS850	251	NV	40	19.28	0.022714	±2.5	PASS
GPRS850	251	NV	50	13.58	0.015999	±2.5	PASS
GPRS1900	512	NV	-30	8.56	0.004627	±2.5	PASS
GPRS1900	512	NV	-20	3.44	0.001859	±2.5	PASS
GPRS1900	512	NV	-10	3.88	0.002097	±2.5	PASS
GPRS1900	512	NV	0	7.04	0.003805	±2.5	PASS
GPRS1900	512	NV	10	9.27	0.005010	±2.5	PASS
GPRS1900	512	NV	20	4.12	0.002227	±2.5	PASS
GPRS1900	512	NV	30	6.91	0.003735	±2.5	PASS
GPRS1900	512	NV	40	9.95	0.005378	±2.5	PASS
GPRS1900	512	NV	50	12.53	0.006772	±2.5	PASS
GPRS1900	661	NV	-30	13.39	0.007122	±2.5	PASS

GPRS1900	661	NV	-20	11.24	0.005979	±2.5	PASS
GPRS1900	661	NV	-10	11.34	0.006032	±2.5	PASS
GPRS1900	661	NV	0	13.94	0.007415	±2.5	PASS
GPRS1900	661	NV	10	7.43	0.003952	±2.5	PASS
GPRS1900	661	NV	20	14.20	0.007553	±2.5	PASS
GPRS1900	661	NV	30	12.53	0.006665	±2.5	PASS
GPRS1900	661	NV	40	12.95	0.006888	±2.5	PASS
GPRS1900	661	NV	50	15.21	0.008090	±2.5	PASS
GPRS1900	810	NV	-30	15.30	0.008011	±2.5	PASS
GPRS1900	810	NV	-20	20.69	0.010834	±2.5	PASS
GPRS1900	810	NV	-10	10.79	0.005650	±2.5	PASS
GPRS1900	810	NV	0	22.73	0.011902	±2.5	PASS
GPRS1900	810	NV	10	15.65	0.008195	±2.5	PASS
GPRS1900	810	NV	20	24.26	0.012703	±2.5	PASS
GPRS1900	810	NV	30	21.75	0.011389	±2.5	PASS
GPRS1900	810	NV	40	20.38	0.010671	±2.5	PASS
GPRS1900	810	NV	50	17.80	0.009320	±2.5	PASS

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