Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	PCL	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GSM850	128	3	33.09	25.94	38.5	PASS
GSM850	190	3	33.10	25.95	38.5	PASS
GSM850	251	3	33.07	25.92	38.5	PASS
GSM1900	512	0	29.20	27.70	33	PASS
GSM1900	661	0	29.20	27.70	33	PASS
GSM1900	810	0	28.77	27.27	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	33.15	26.00	38.5	PASS
GPRS850	128	3	2	32.08	24.93	38.5	PASS
GPRS850	128	3	3	30.01	22.86	38.5	PASS
GPRS850	128	3	4	28.75	21.60	38.5	PASS
GPRS850	190	3	1	32.96	25.81	38.5	PASS
GPRS850	190	3	2	32.02	24.87	38.5	PASS
GPRS850	190	3	3	30.00	22.85	38.5	PASS
GPRS850	190	3	4	28.77	21.62	38.5	PASS
GPRS850	251	3	1	32.95	25.80	38.5	PASS
GPRS850	251	3	2	31.99	24.84	38.5	PASS
GPRS850	251	3	3	30.00	22.85	38.5	PASS
GPRS850	251	3	4	28.78	21.63	38.5	PASS
GPRS1900	512	0	1	29.16	27.66	33	PASS
GPRS1900	512	0	2	28.18	26.68	33	PASS
GPRS1900	512	0	3	26.12	24.62	33	PASS
GPRS1900	512	0	4	25.03	23.53	33	PASS
GPRS1900	661	0	1	29.12	27.62	33	PASS
GPRS1900	661	0	2	28.17	26.67	33	PASS
GPRS1900	661	0	3	26.12	24.62	33	PASS
GPRS1900	661	0	4	25.03	23.53	33	PASS
GPRS1900	810	0	1	28.73	27.23	33	PASS
GPRS1900	810	0	2	27.78	26.28	33	PASS
GPRS1900	810	0	3	25.74	24.24	33	PASS
GPRS1900	810	0	4	24.66	23.16	33	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For GSM1900)
ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For GSM850)

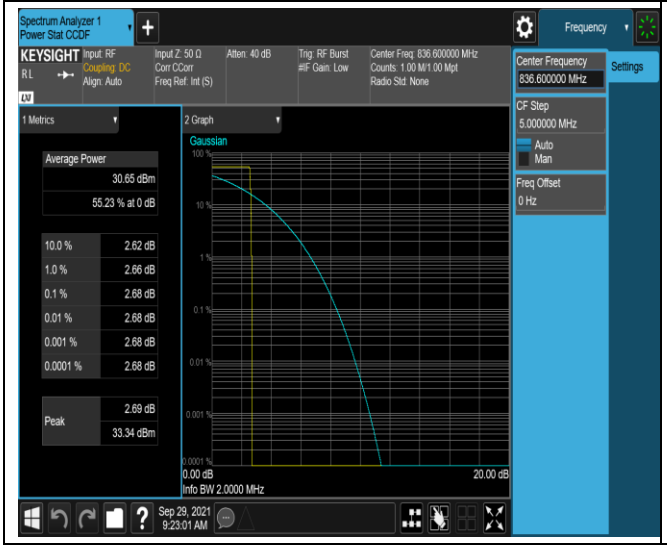
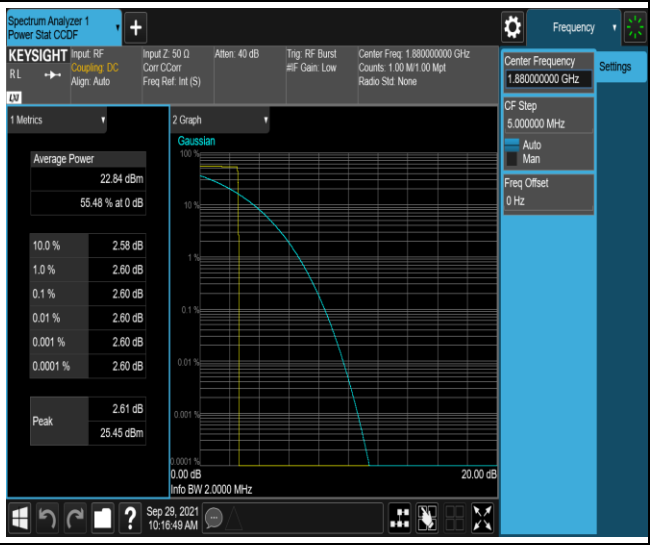
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	3	2.68	13	PASS
GSM1900	661	0	2.6	13	PASS

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

Test Graphs

GSM850-190-3	GSM1900-661-0
	

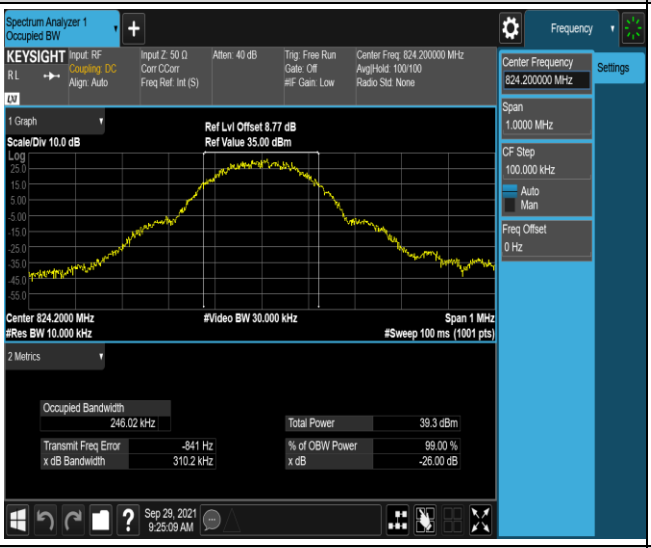
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

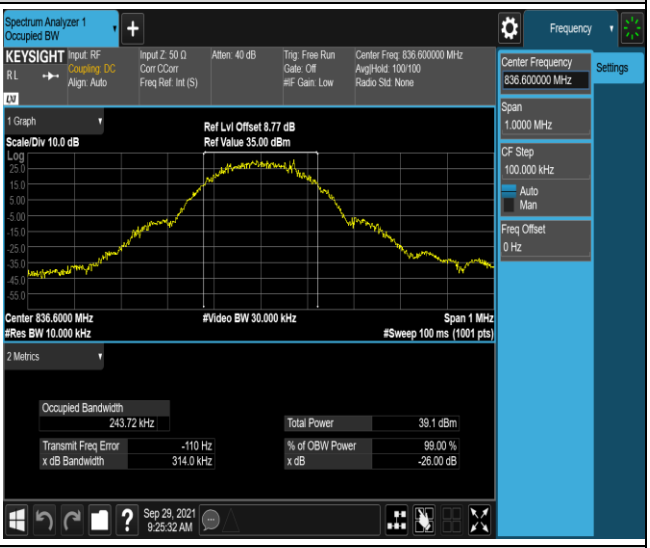
Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.24602	0.3102	---	PASS
GSM850	190	3	0.24372	0.3140	---	PASS
GSM850	251	3	0.24730	0.3097	---	PASS
GSM1900	512	0	0.24546	0.3131	---	PASS
GSM1900	661	0	0.24479	0.3162	---	PASS
GSM1900	810	0	0.24659	0.3168	---	PASS

Test Graphs

GSM850-128-3-0.3102

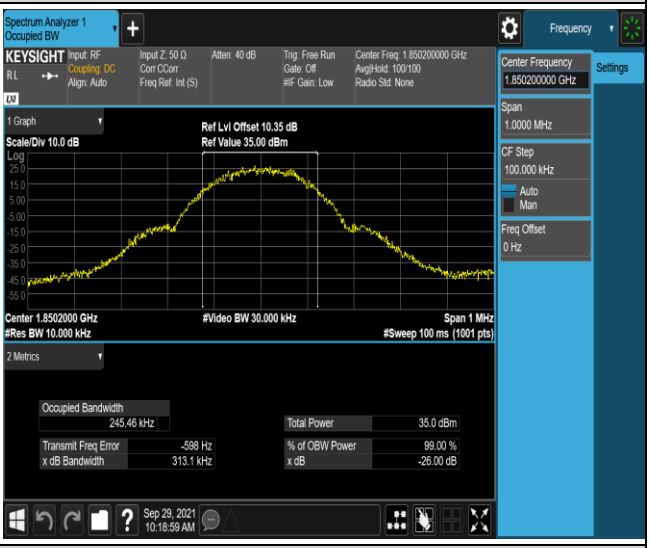


GSM850-190-3-0.3140

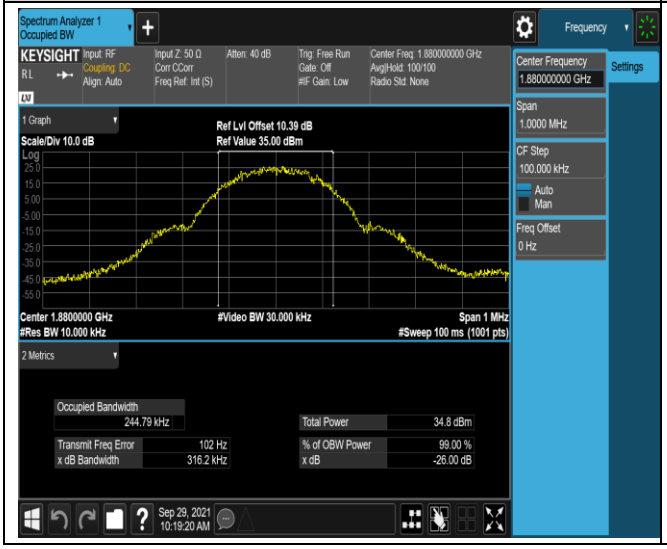


GSM850-251-3-0.3097

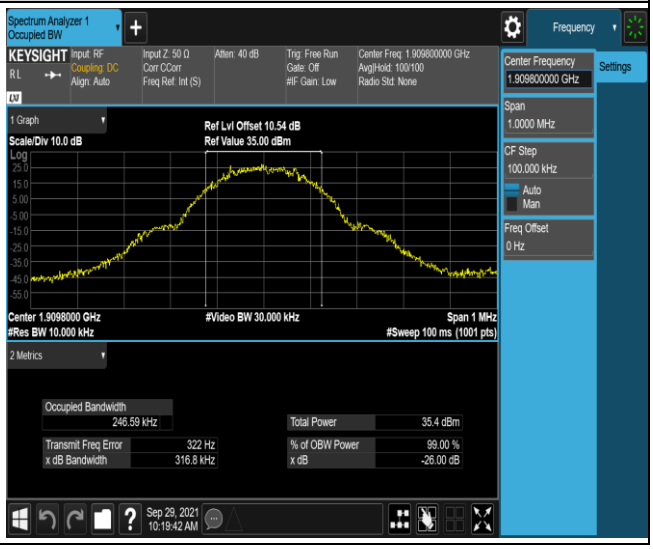
GSM1900-512-0-0.3131



GSM1900-661-0-0.3162



GSM1900-810-0-0.3168



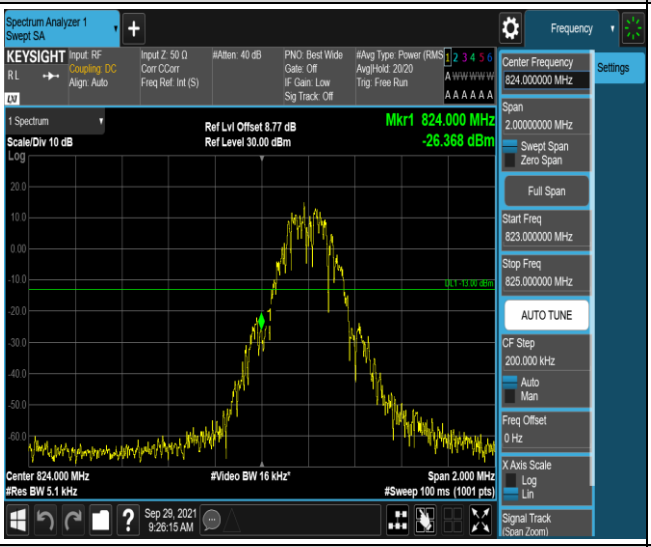
Appendix D: Band Edge

Test Result

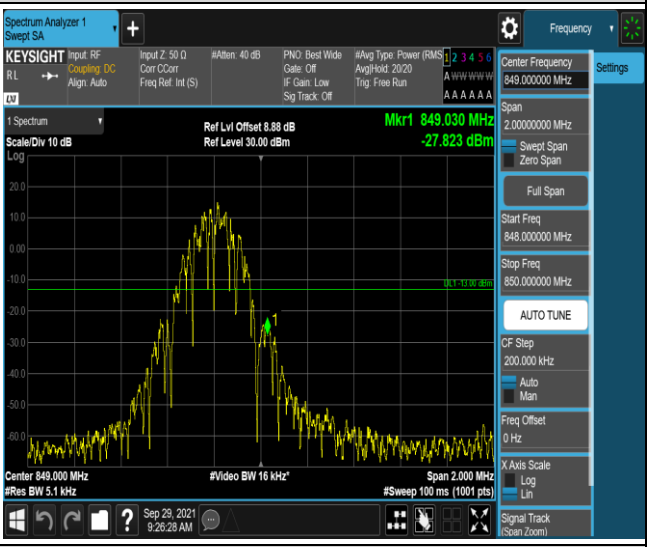
Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	3	824.00	-20.70	-13	PASS
GSM850	251	3	849.03	-23.61	-13	PASS
GSM1900	512	0	1850.00	-16.62	-13	PASS
GSM1900	810	0	1910.02	-15.14	-13	PASS

Test Graphs

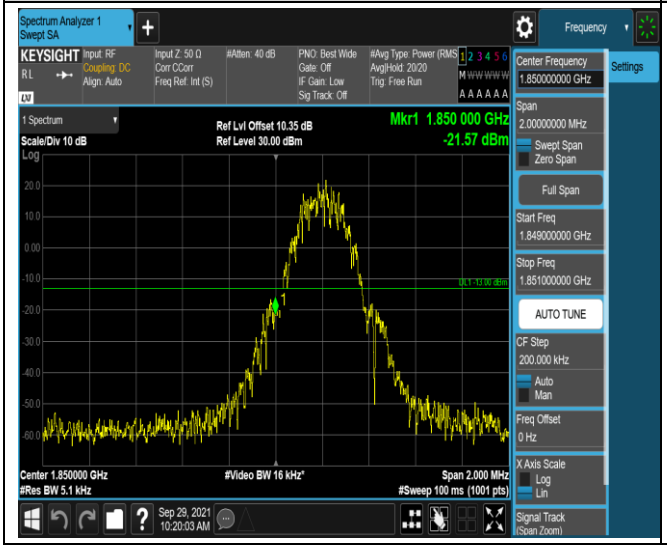
GSM850-128-3



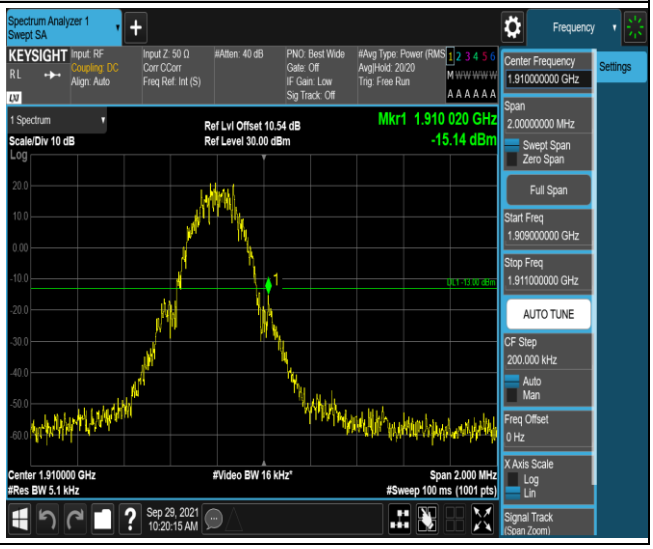
GSM850-251-3



GSM1900-512-0



GSM1900-810-0



Appendix E: Conducted Spurious Emission

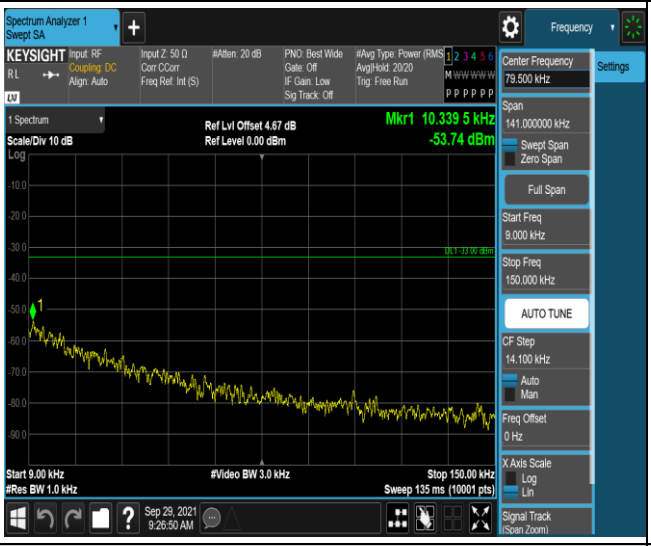
Test Result

Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	3	0.009~0.15MHz	0.01	-53.74	-33	PASS
GSM850	128	3	0.15~30MHz	0.15	-51.93	-13	PASS
GSM850	128	3	30~1000MHz	936.95	-46.67	-13	PASS
GSM850	128	3	1000~10000MHz	2546.5	-24.05	-13	PASS
GSM850	190	3	0.009~0.15MHz	0.01	-55.09	-33	PASS
GSM850	190	3	0.15~30MHz	0.17	-53.2	-13	PASS
GSM850	190	3	30~1000MHz	982.12	-46.09	-13	PASS
GSM850	190	3	1000~10000MHz	2546.5	-24.25	-13	PASS
GSM850	251	3	0.009~0.15MHz	0.01	-54.56	-33	PASS
GSM850	251	3	0.15~30MHz	0.17	-53.18	-13	PASS
GSM850	251	3	30~1000MHz	975.39	-45.2	-13	PASS
GSM850	251	3	1000~10000MHz	2546.2	-24.01	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.37	-43	PASS
GSM1900	512	0	0.15~30MHz	0.19	-53.93	-23	PASS
GSM1900	512	0	30~1000MHz	859.16	-46.17	-13	PASS
GSM1900	512	0	1000~18000MHz	3807.27	-34.34	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.16	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-51.51	-23	PASS
GSM1900	661	0	30~1000MHz	976.27	-47.2	-13	PASS
GSM1900	661	0	1000~18000MHz	3774.4	-34.2	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.51	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-51.75	-23	PASS
GSM1900	810	0	30~1000MHz	864.04	-46.82	-13	PASS
GSM1900	810	0	1000~18000MHz	3714.9	-34.58	-13	PASS

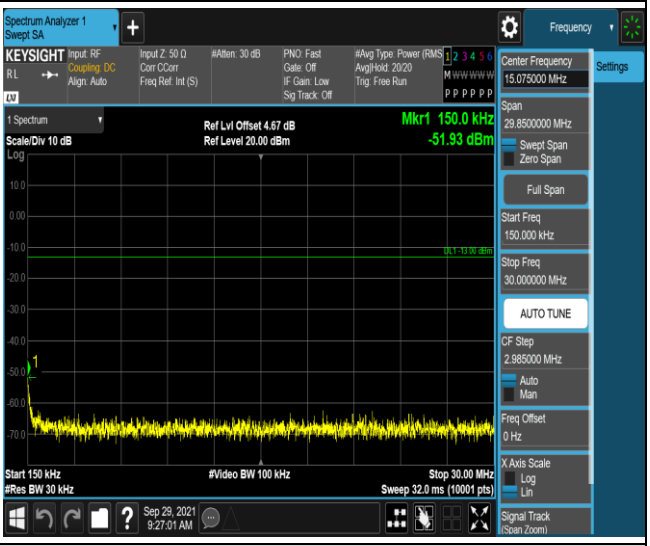
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

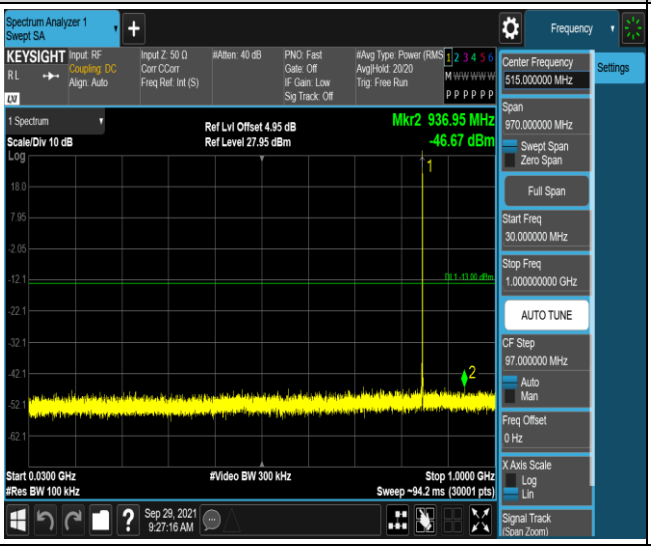
GSM850-128-3-0.009~0.15MHz



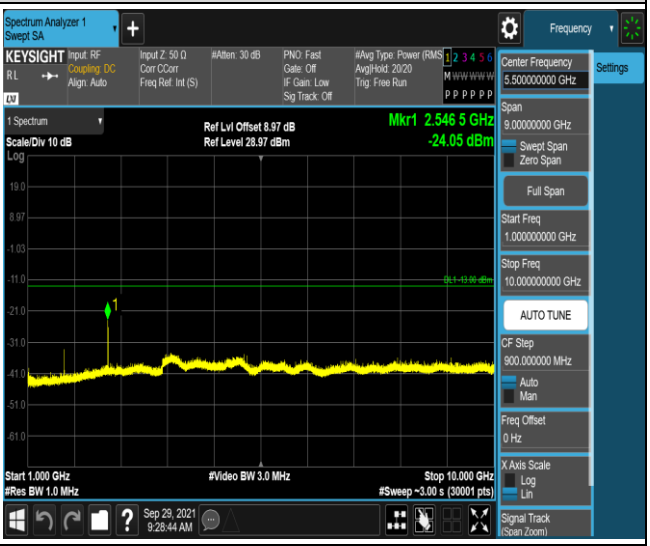
GSM850-128-3-0.15~30MHz



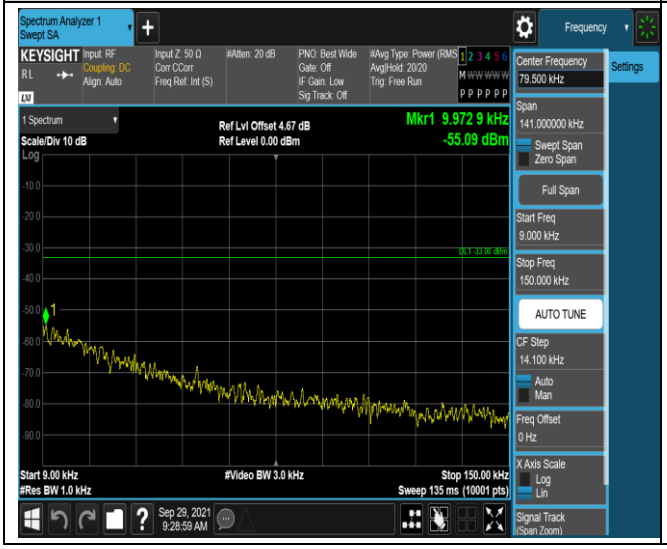
GSM850-128-3-30~1000MHz



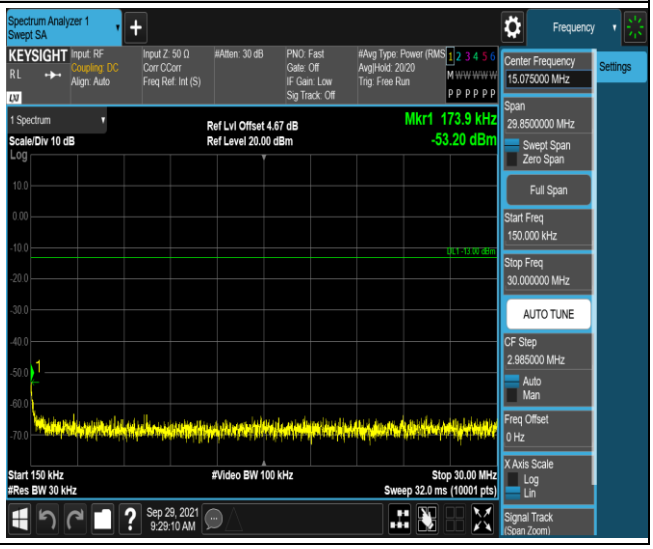
GSM850-128-3-1000~10000MHz



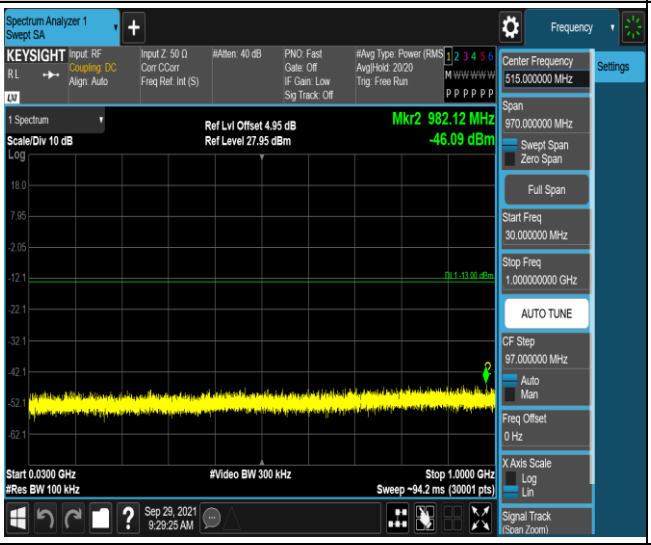
GSM850-190-3-0.009~0.15MHz



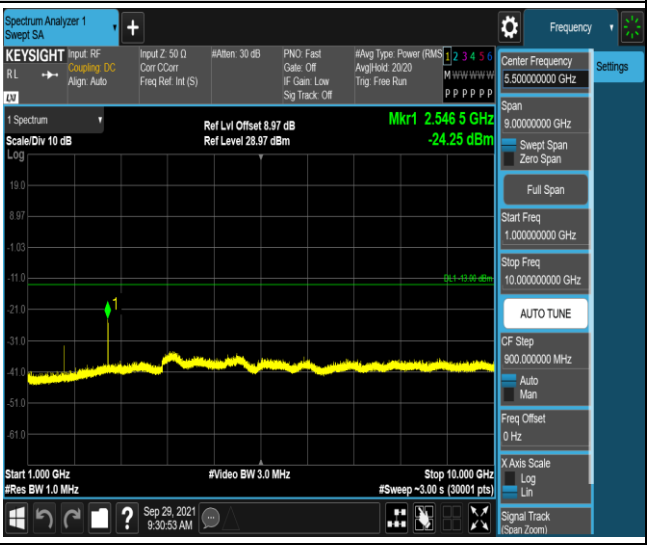
GSM850-190-3-0.15~30MHz



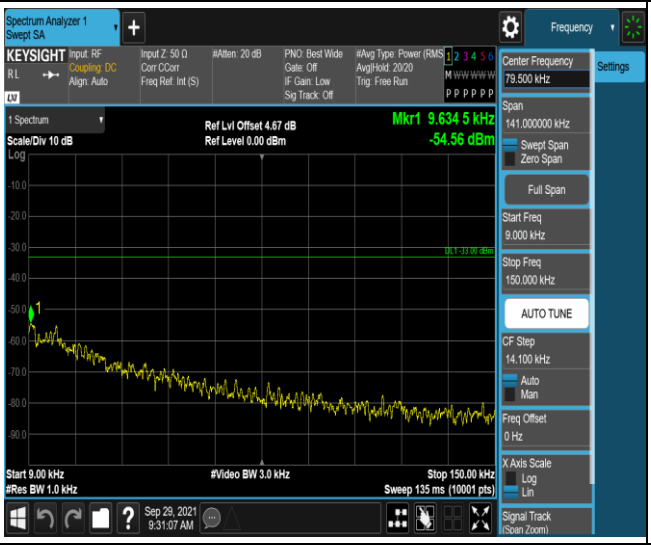
GSM850-190-3-30~1000MHz



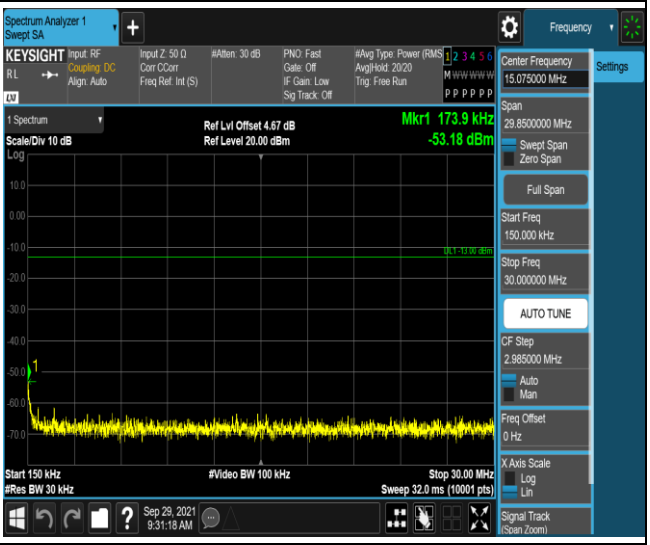
GSM850-190-3-1000~10000MHz



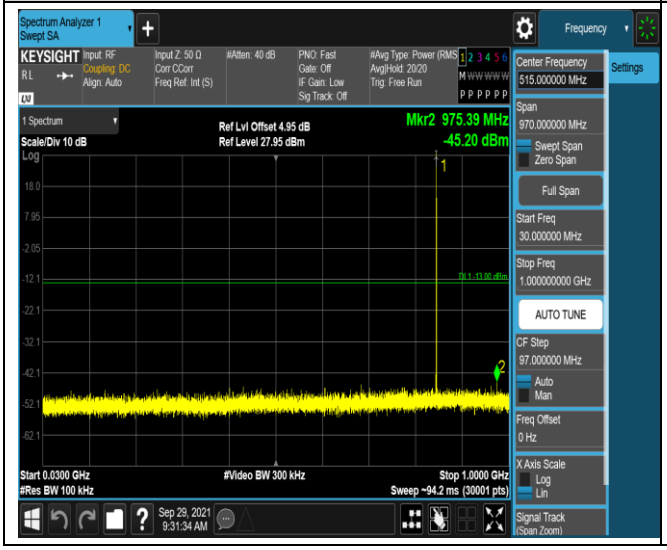
GSM850-251-3-0.009~0.15MHz



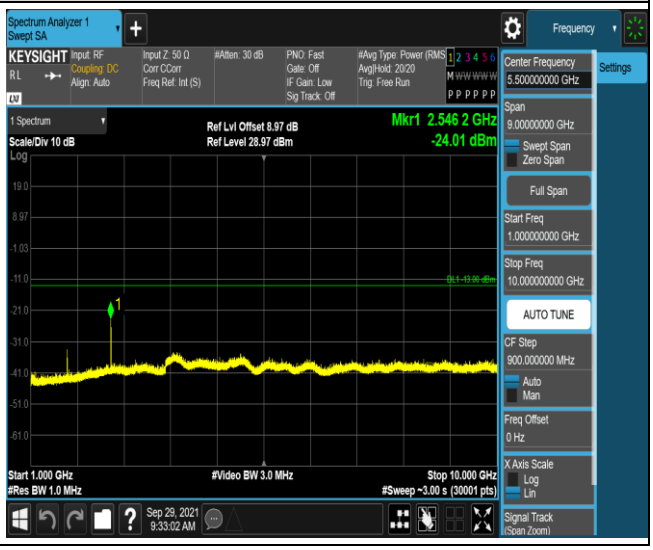
GSM850-251-3-0.15~30MHz



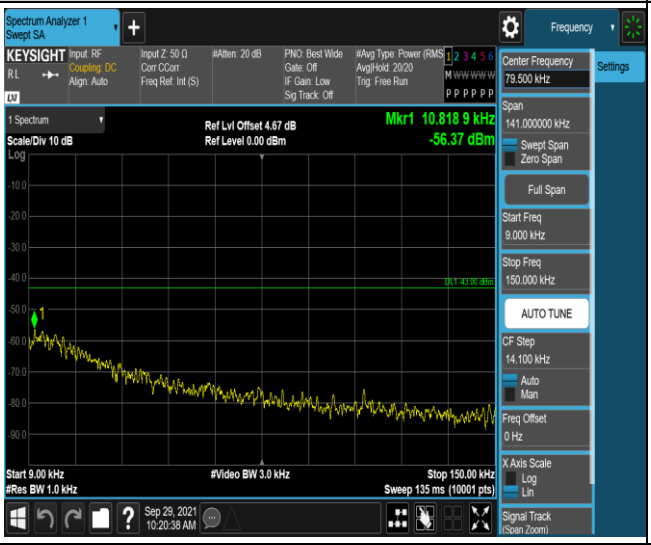
GSM850-251-3-30~1000MHz



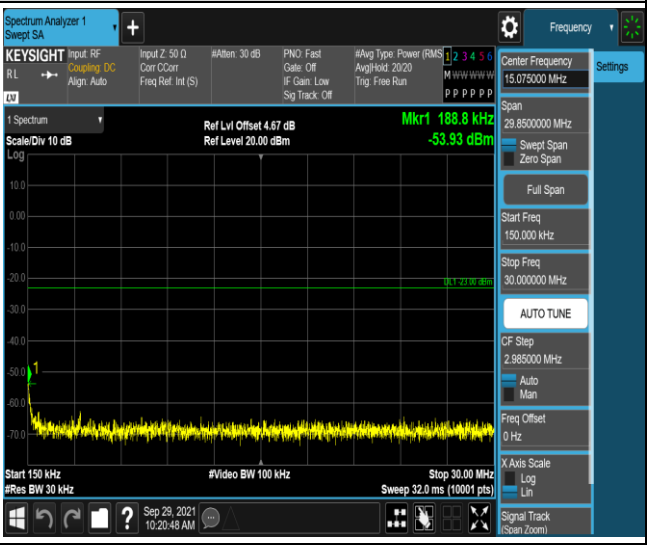
GSM850-251-3-1000~10000MHz



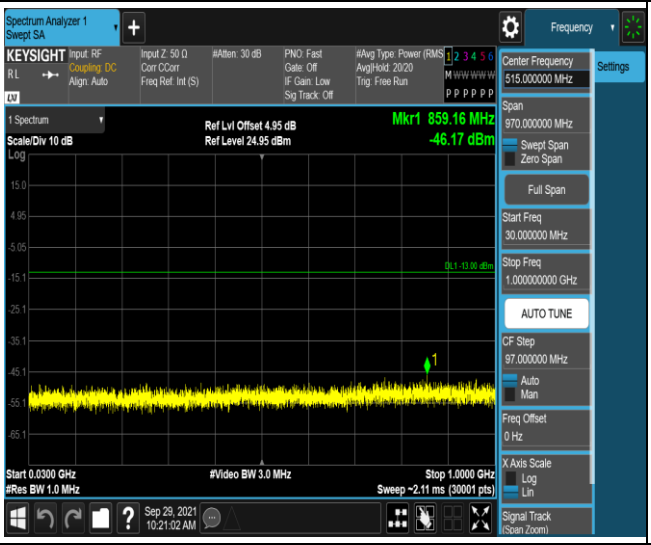
GSM1900-512-0-0.009~0.15MHz



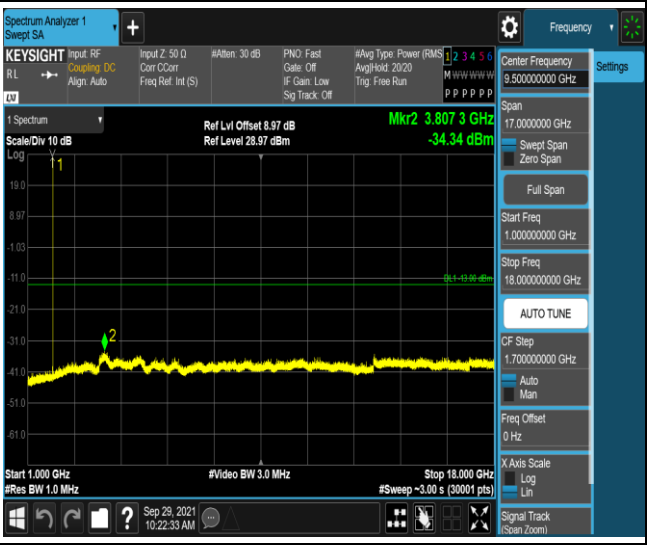
GSM1900-512-0-0.15~30MHz



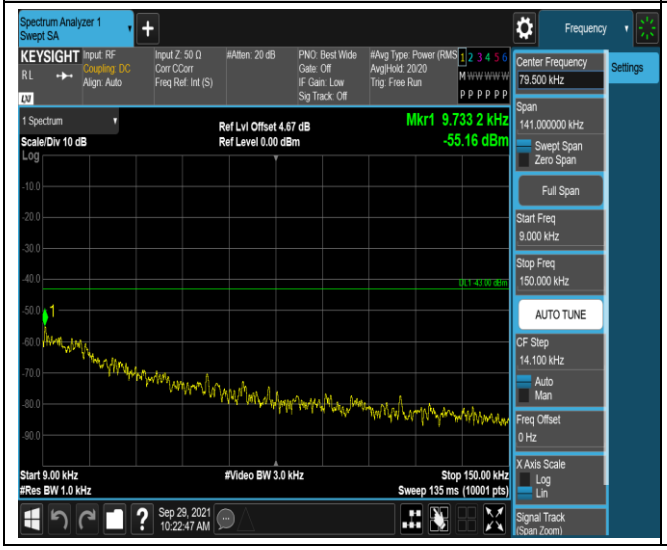
GSM1900-512-0-30~1000MHz



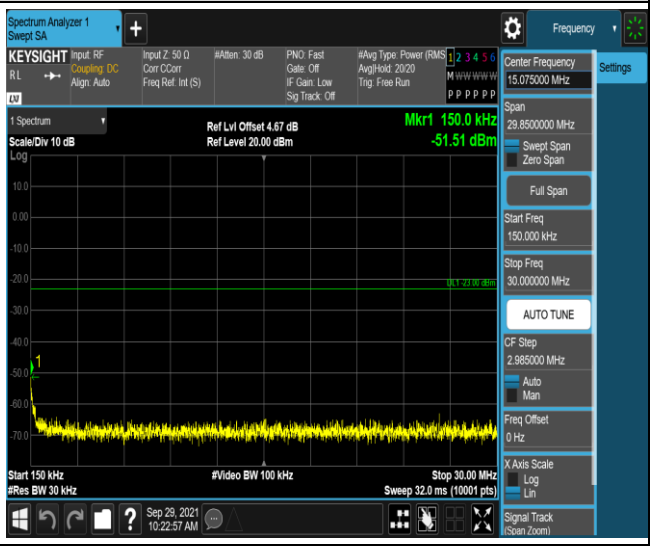
GSM1900-512-0-1000~18000MHz



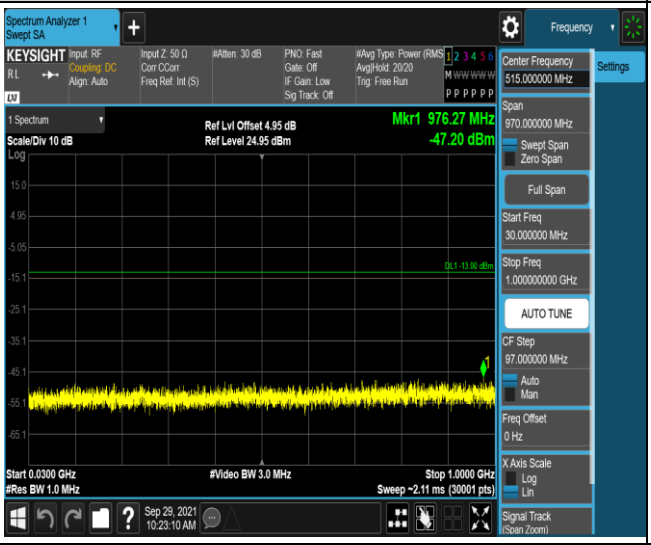
GSM1900-661-0-0.009~0.15MHz



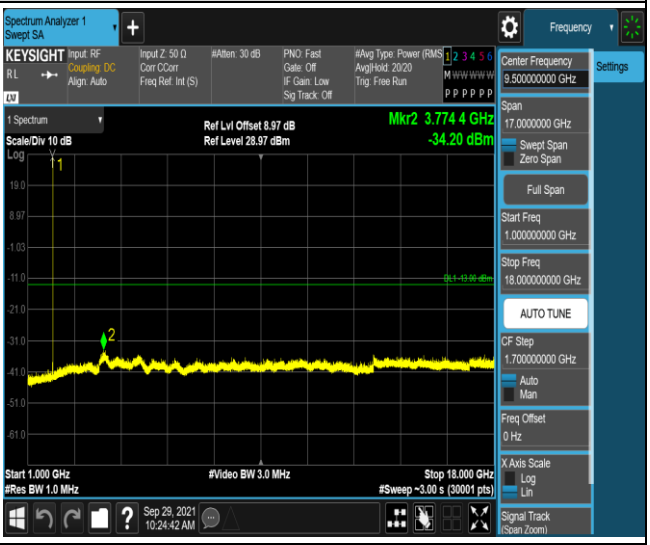
GSM1900-661-0-0.15~30MHz



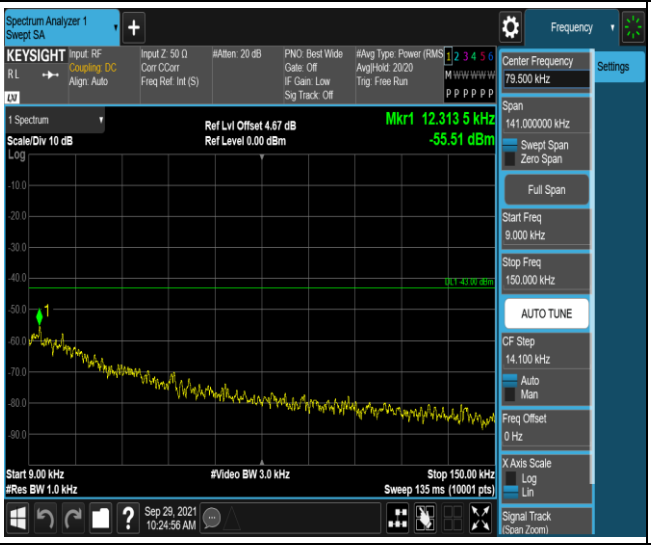
GSM1900-661-0-30~1000MHz



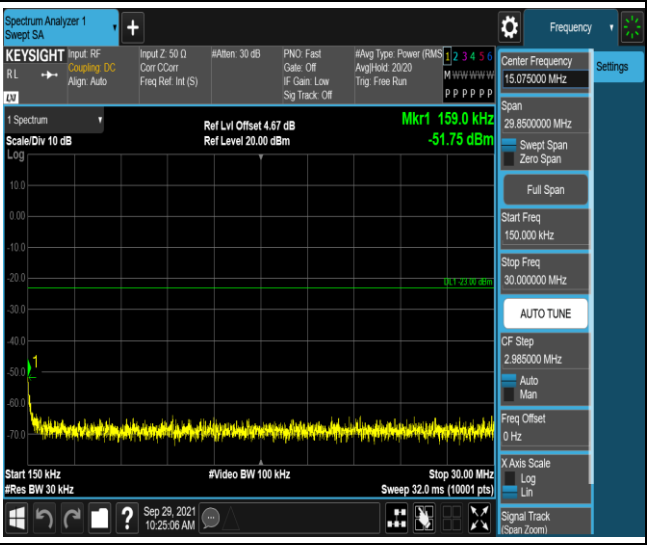
GSM1900-661-0-1000~18000MHz



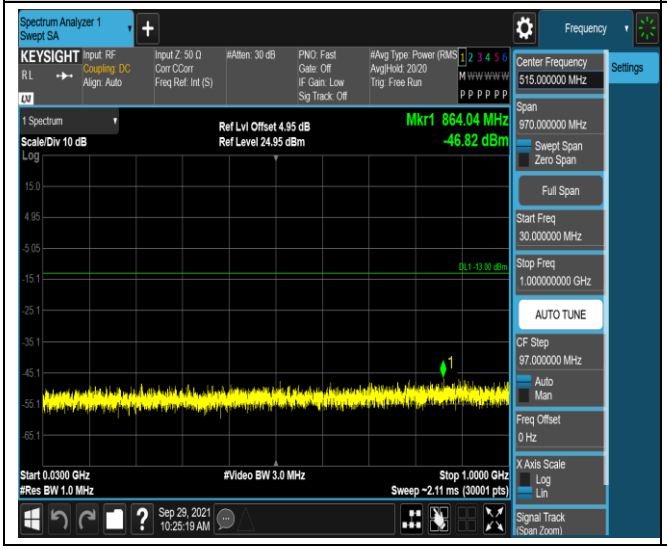
GSM1900-810-0-0.009~0.15MHz



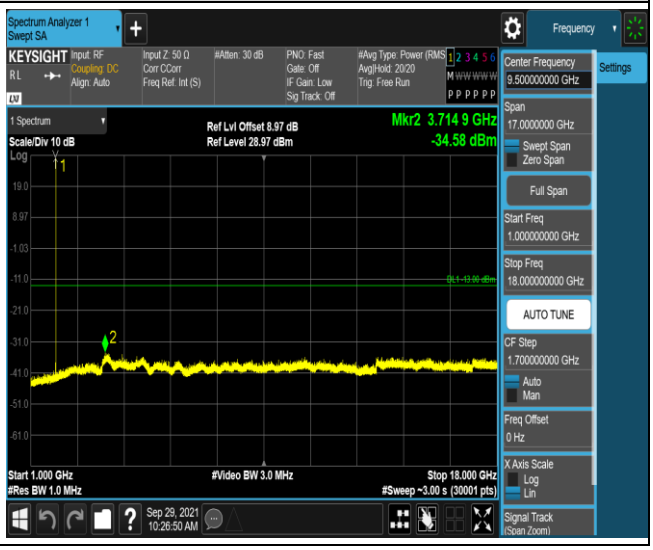
GSM1900-810-0-0.15~30MHz



GSM1900-810-0-30~1000MHz



GSM1900-810-0-1000~18000MHz



Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	17.92	0.021420	±2.5	Pass
	-20	19.53	0.023344		
	-10	17.60	0.021038		
	0	21.60	0.025819		
	10	20.08	0.024002		
	20	23.79	0.028437		
	30	15.72	0.018790		
	40	16.37	0.019567		
	50	15.56	0.018599		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	10.88	0.013005	±2.5	Pass
	3.85	8.36	0.009993		
	4.23	7.49	0.008953		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: PCS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	15.95	0.008484	Within authorized band for PCS 1900	Pass
	-20	11.98	0.006372		
	-10	16.92	0.009000		
	0	20.02	0.010649		
	10	6.94	0.003691		
	20	5.94	0.003160		
	30	6.81	0.003622		
	40	10.62	0.005649		
	50	11.98	0.006372		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	21.92	0.011660	Within authorized band for PCS 1900	Pass
	3.85	16.59	0.008824		
	4.23	13.56	0.007213		
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
GSM850	190	PASS	PASS
GSM1900	661	PASS	PASS

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

Test Graphs

GSM850-190-3	GSM1900-661-0