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	5	31.95	25.05	38.45	PASS
GSM850	190	5	31.62	24.72	38.45	PASS
GSM850	251	5	31.65	24.75	38.45	PASS
GSM1900	512	0	27.87	26.73	33.00	PASS
GSM1900	661	0	29.29	28.15	33.00	PASS
GSM1900	810	0	29.58	28.44	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.80	25.9	38.45	PASS
GPRS850	128	5	2	31.14	24.24	38.45	PASS
GPRS850	128	5	3	29.06	22.16	38.45	PASS
GPRS850	128	5	4	27.97	21.07	38.45	PASS
GPRS850	190	5	1	32.49	25.59	38.45	PASS
GPRS850	190	5	2	30.78	23.88	38.45	PASS
GPRS850	190	5	3	28.67	21.77	38.45	PASS
GPRS850	190	5	4	27.58	20.68	38.45	PASS
GPRS850	251	5	1	32.51	25.61	38.45	PASS
GPRS850	251	5	2	30.83	23.93	38.45	PASS
GPRS850	251	5	3	28.72	21.82	38.45	PASS
GPRS850	251	5	4	27.63	20.73	38.45	PASS
GPRS1900	512	0	1	29.06	27.92	33.00	PASS
GPRS1900	512	0	2	26.76	25.62	33.00	PASS
GPRS1900	512	0	3	24.61	23.47	33.00	PASS
GPRS1900	512	0	4	23.49	22.35	33.00	PASS
GPRS1900	661	0	1	30.34	29.2	33.00	PASS
GPRS1900	661	0	2	28.15	27.01	33.00	PASS
GPRS1900	661	0	3	25.92	24.78	33.00	PASS
GPRS1900	661	0	4	24.79	23.65	33.00	PASS
GPRS1900	810	0	1	30.51	29.37	33.00	PASS
GPRS1900	810	0	2	28.48	27.34	33.00	PASS
GPRS1900	810	0	3	26.21	25.07	33.00	PASS
GPRS1900	810	0	4	25.06	23.92	33.00	PASS

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

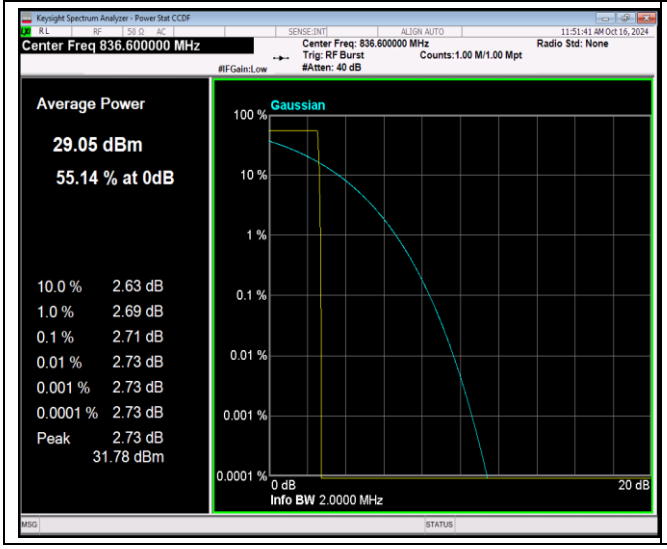
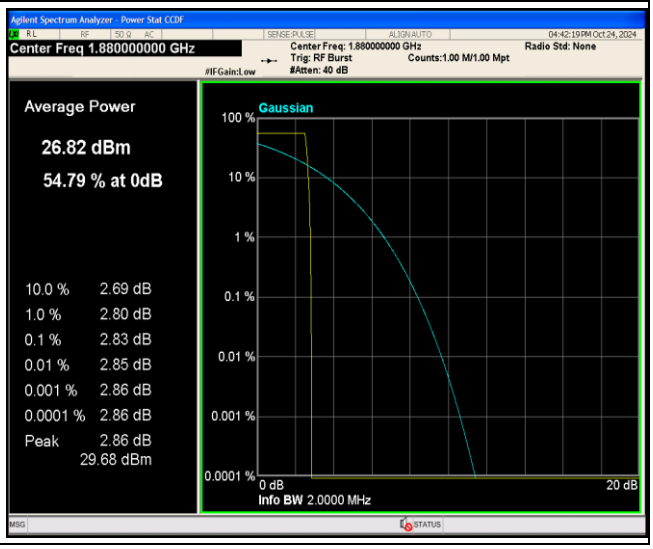
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.71	13	PASS
GSM1900	661	0	2.83	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	GSM1900-661
	

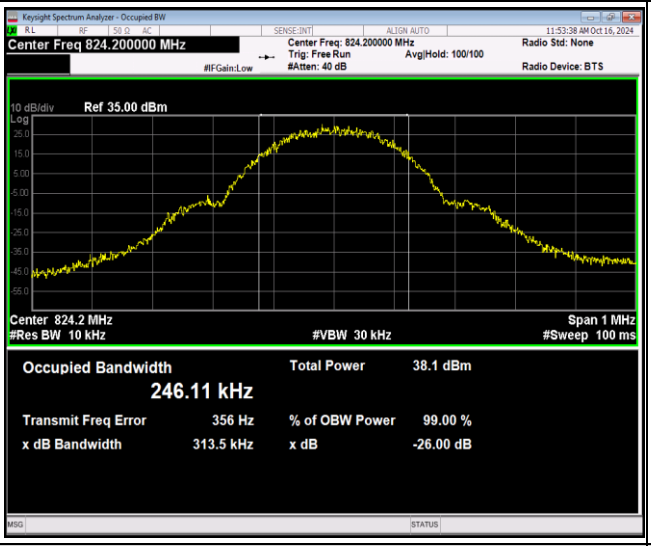
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

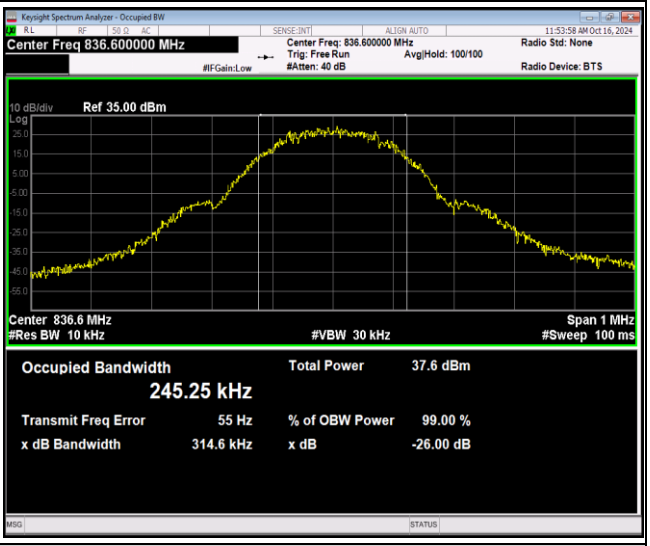
Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24611	0.3135	---	PASS
GSM850	190	5	0.24525	0.3146	---	PASS
GSM850	251	5	0.24375	0.3134	---	PASS
GSM1900	512	0	0.24531	0.3148	---	PASS
GSM1900	661	0	0.24644	0.3201	---	PASS
GSM1900	810	0	0.24465	0.3184	---	PASS

Test Graphs

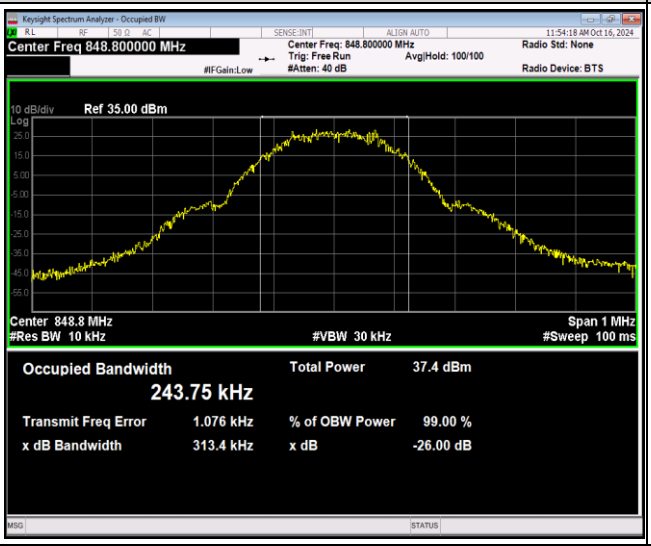
GSM850-128



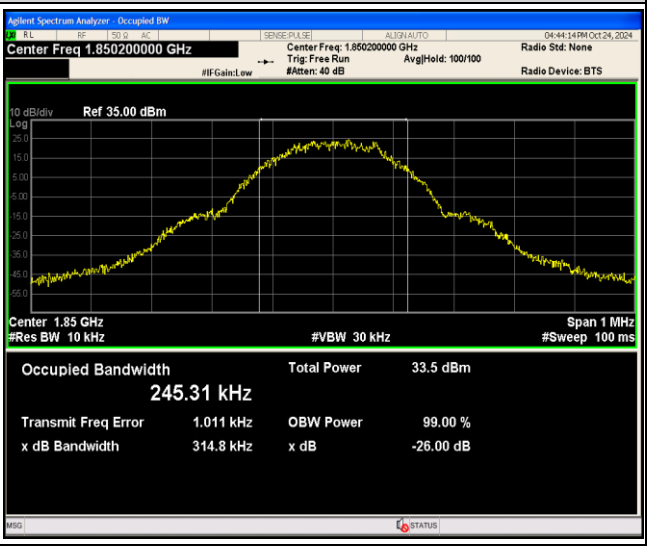
GSM850-190



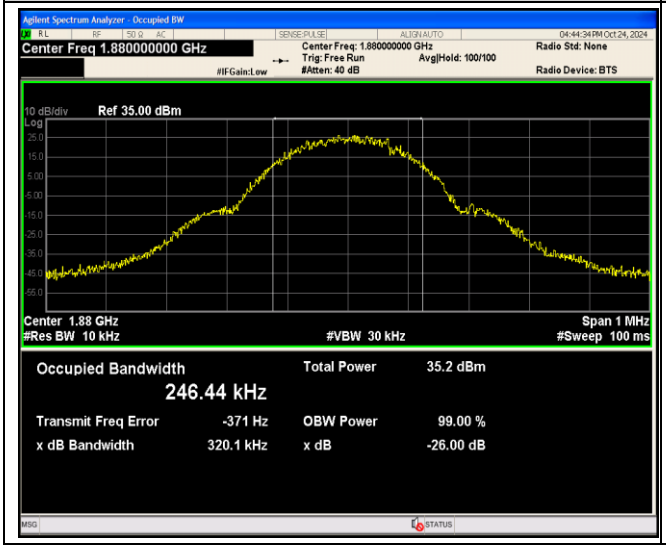
GSM850-251



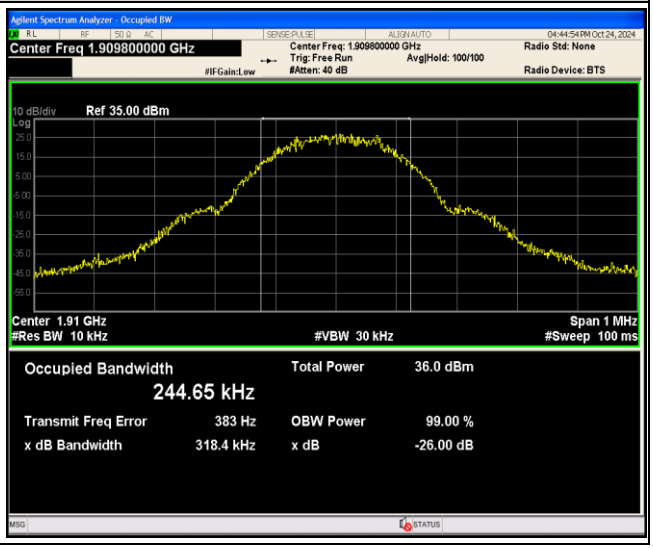
GSM1900-512



GSM1900-661



GSM1900-810



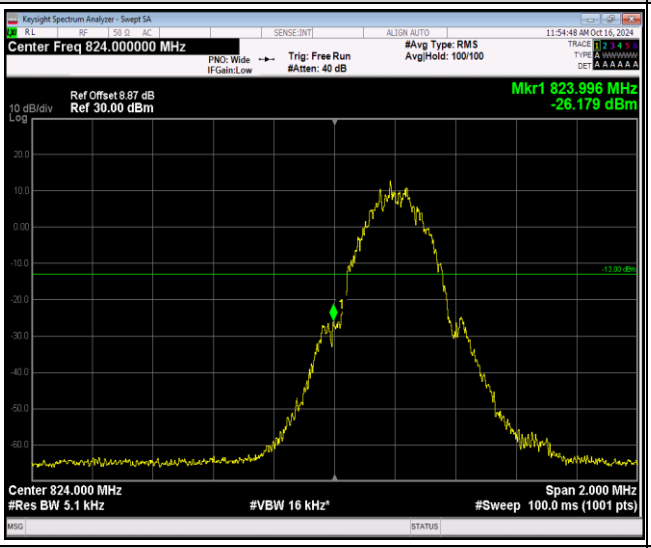
Appendix D: Band Edge

Test Result

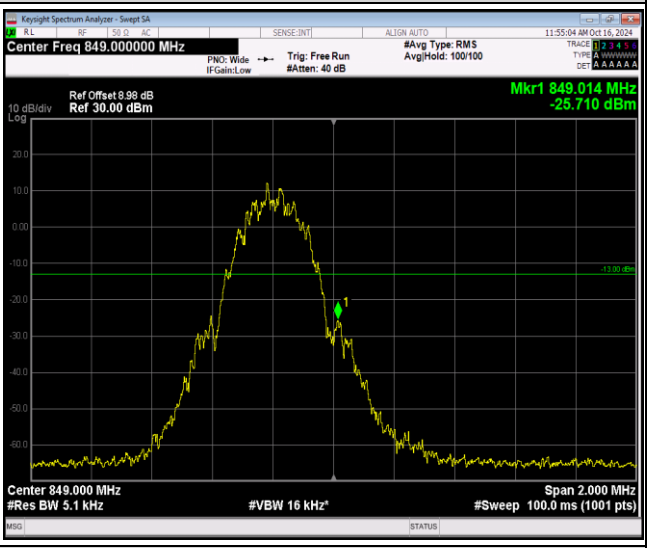
Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-26.18	-13	PASS
GSM850	251	5	849.01	-25.71	-13	PASS
GSM1900	512	0	1850.00	-16.55	-13	PASS
GSM1900	810	0	1910.01	-14.37	-13	PASS

Test Graphs

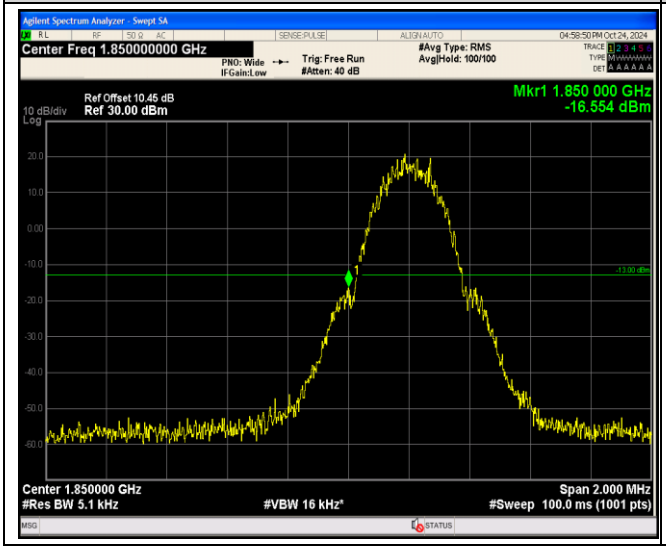
GSM850-128



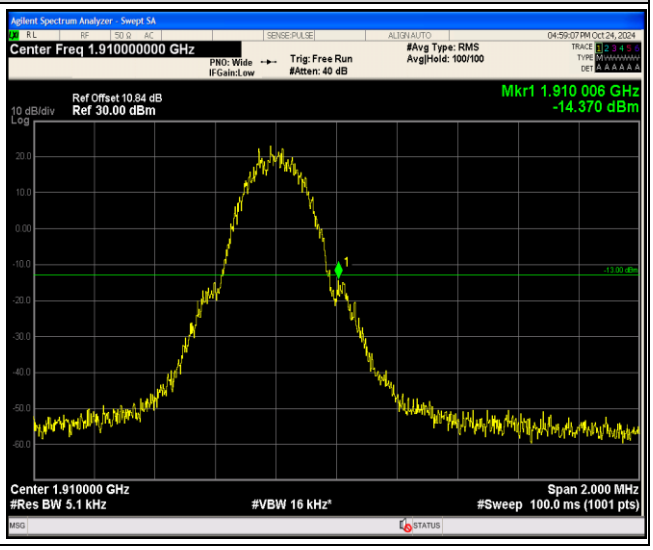
GSM850-251



GSM1900-512



GSM1900-810



Appendix E: Conducted Spurious Emission

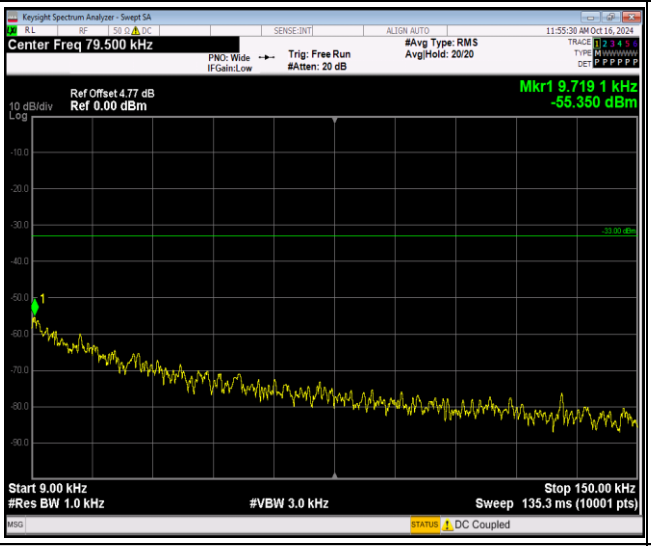
Test Result

Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-55.35	-33	PASS
GSM850	128	5	0.15~30MHz	0.17	-43.08	-13	PASS
GSM850	128	5	30~1000MHz	677.99	-45.29	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-31.84	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-56.25	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-41.7	-13	PASS
GSM850	190	5	30~1000MHz	982.22	-44.76	-13	PASS
GSM850	190	5	1000~10000MHz	1672.9	-32.7	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.75	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-42.64	-13	PASS
GSM850	251	5	30~1000MHz	994.37	-45.24	-13	PASS
GSM850	251	5	1000~10000MHz	1697.8	-33.42	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-46.81	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-36.42	-23	PASS
GSM1900	512	0	30~1000MHz	922.79	-45.23	-13	PASS
GSM1900	512	0	1000~18000MHz	17076.9	-20.18	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-45.66	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-35.32	-23	PASS
GSM1900	661	0	30~1000MHz	921.59	-45.77	-13	PASS
GSM1900	661	0	1000~18000MHz	17094.47	-20.79	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-46.63	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-34.86	-23	PASS
GSM1900	810	0	30~1000MHz	769.46	-46.41	-13	PASS
GSM1900	810	0	1000~18000MHz	17061.6	-20.75	-13	PASS

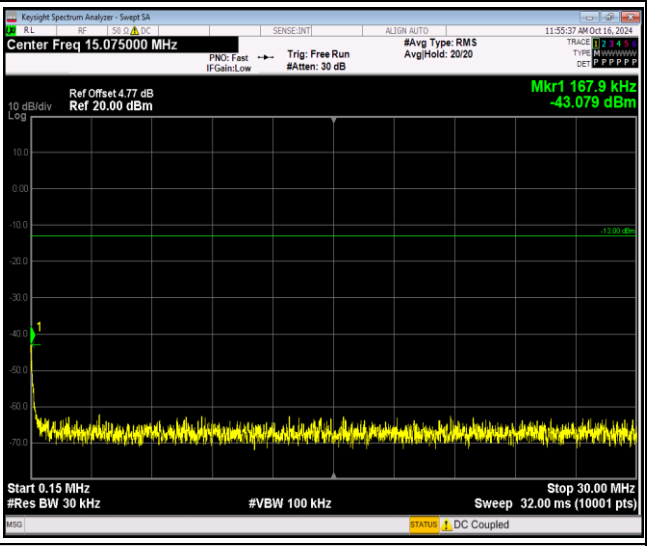
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

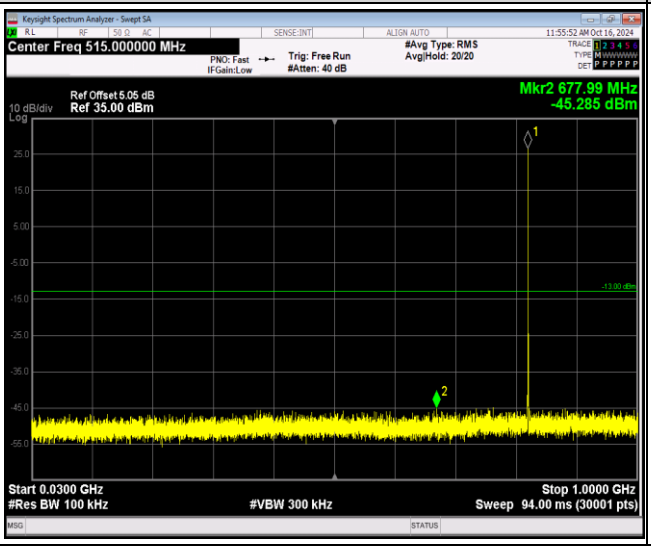
GSM850-128-0.009~0.15MHz



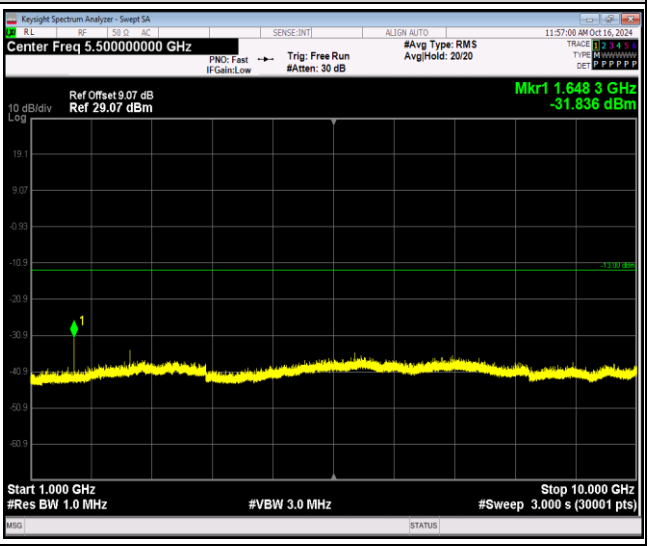
GSM850-128-0.15~30MHz



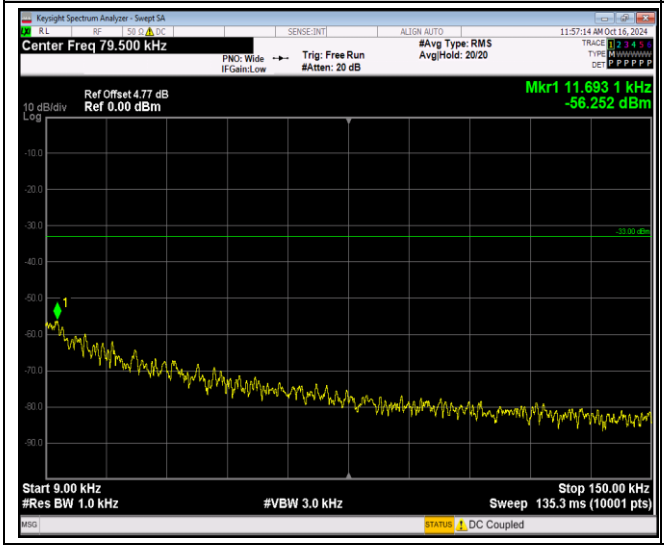
GSM850-128-30~1000MHz



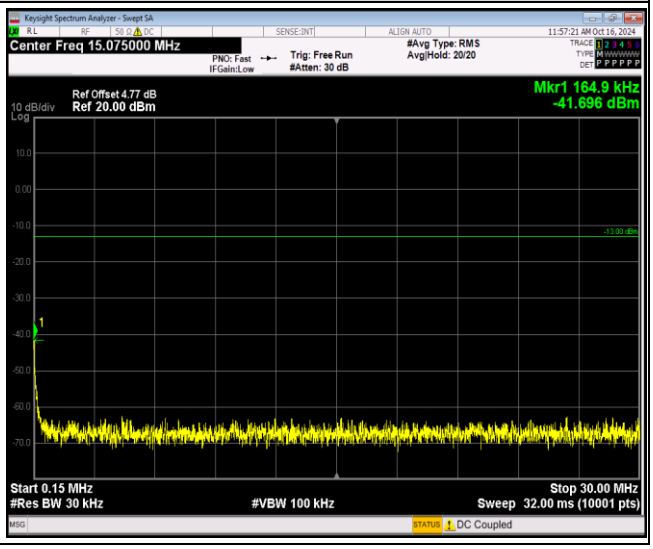
GSM850-128-1000~10000MHz

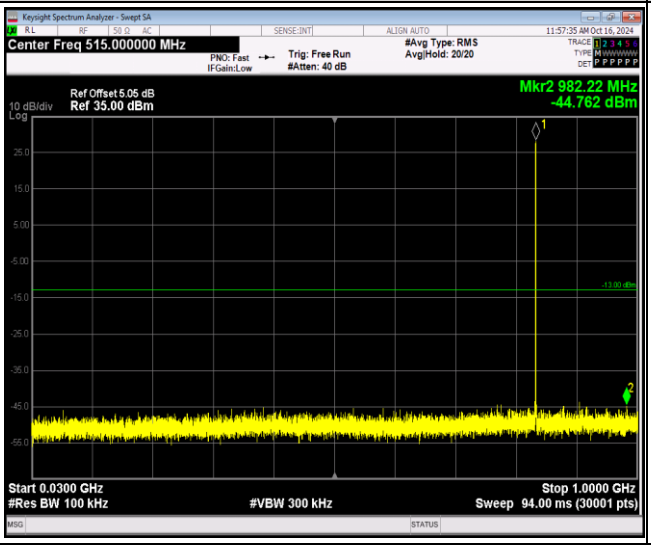
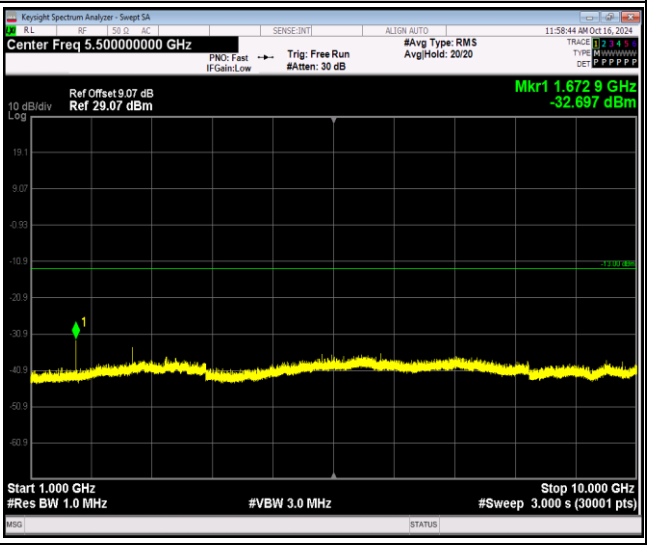
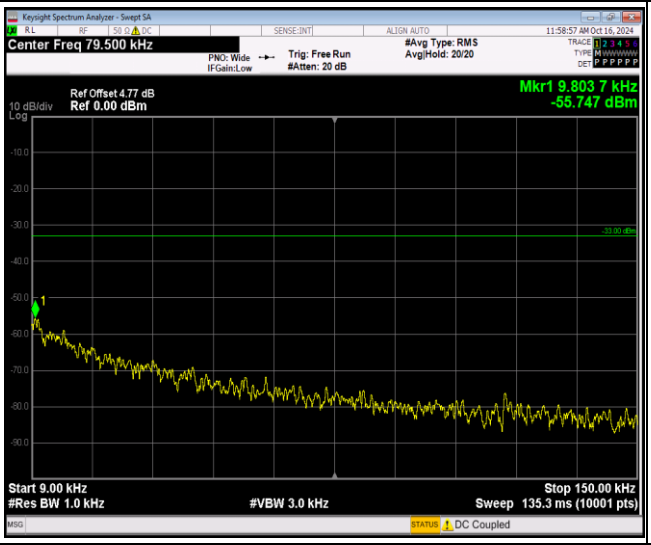
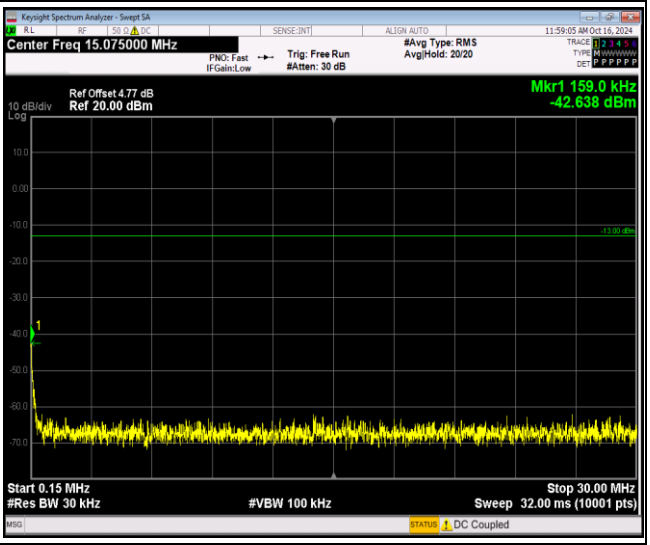
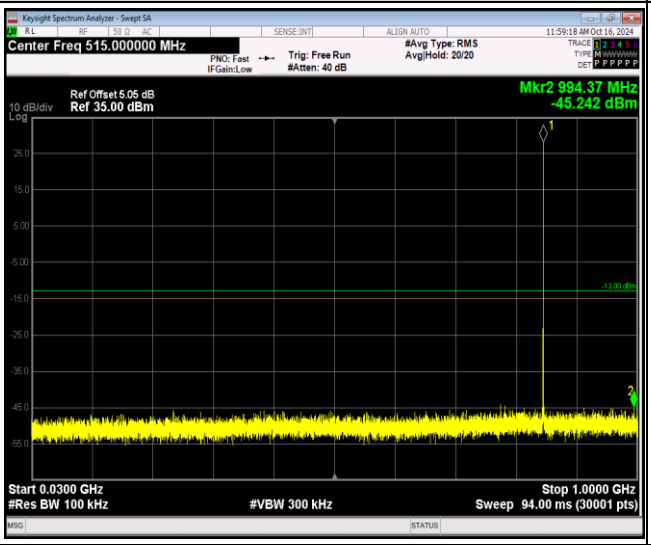
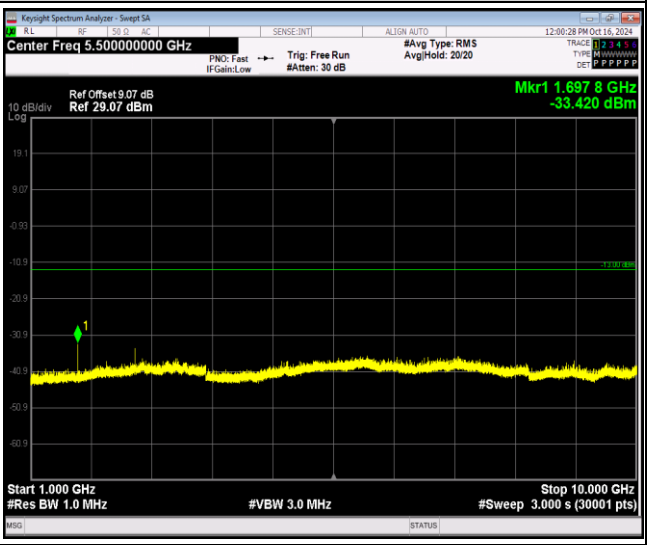


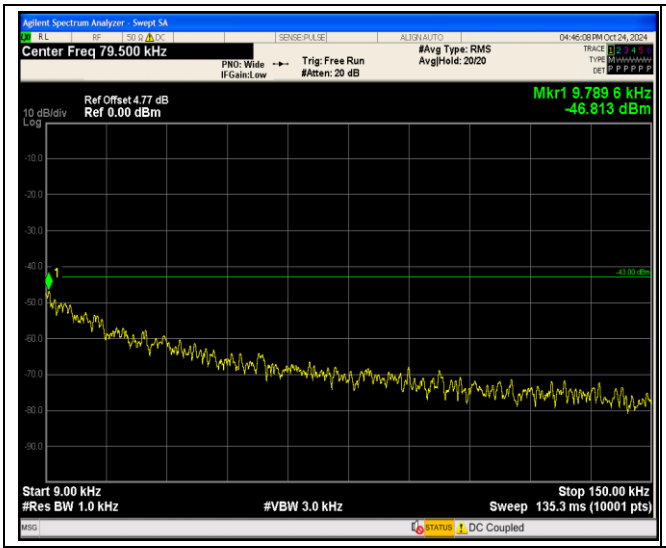
GSM850-190-0.009~0.15MHz



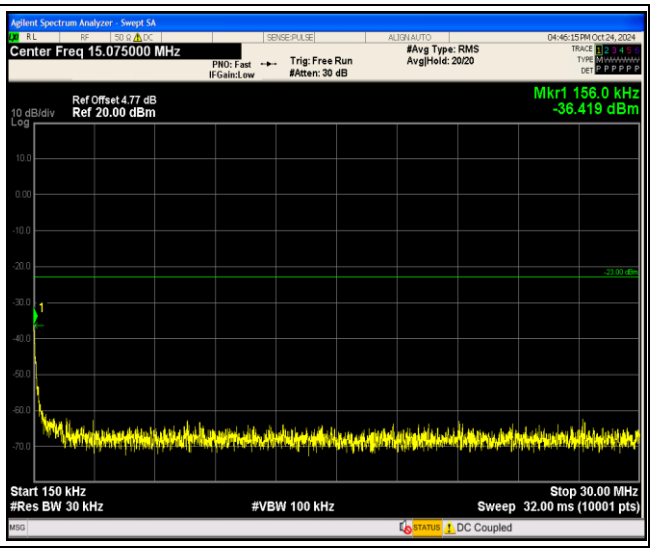
GSM850-190-0.15~30MHz



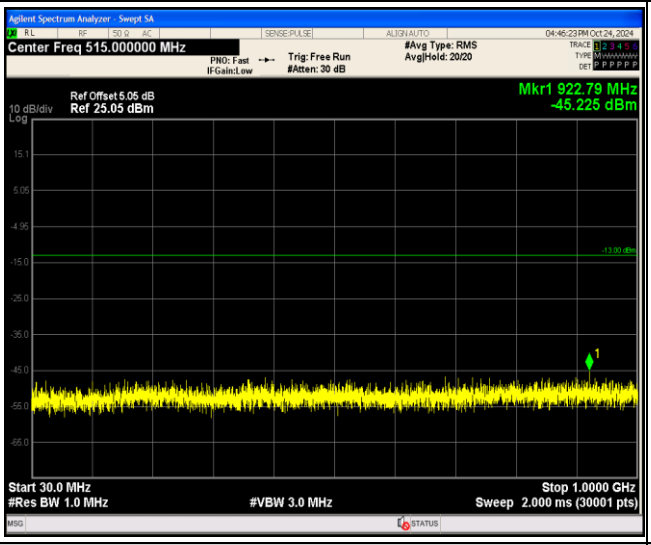
GSM850-190-30~1000MHz	GSM850-190-1000~10000MHz
	
GSM850-251-0.009~0.15MHz	GSM850-251-0.15~30MHz
	
GSM850-251-30~1000MHz	GSM850-251-1000~10000MHz
	
GSM1900-512-0.009~0.15MHz	GSM1900-512-0.15~30MHz



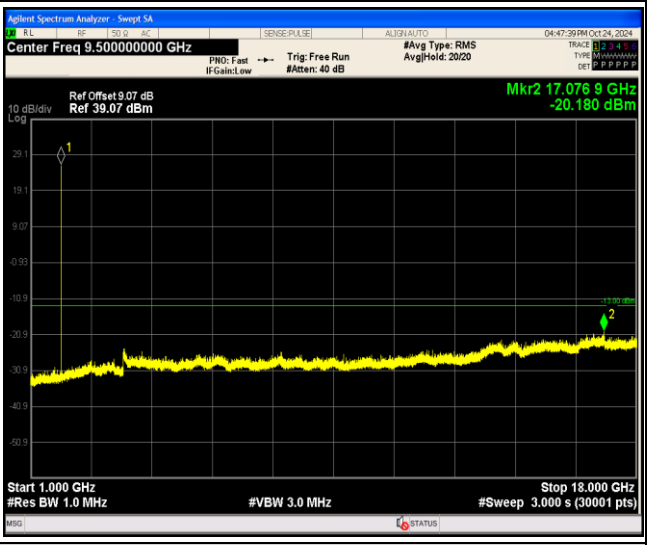
GSM1900-512-30~1000MHz



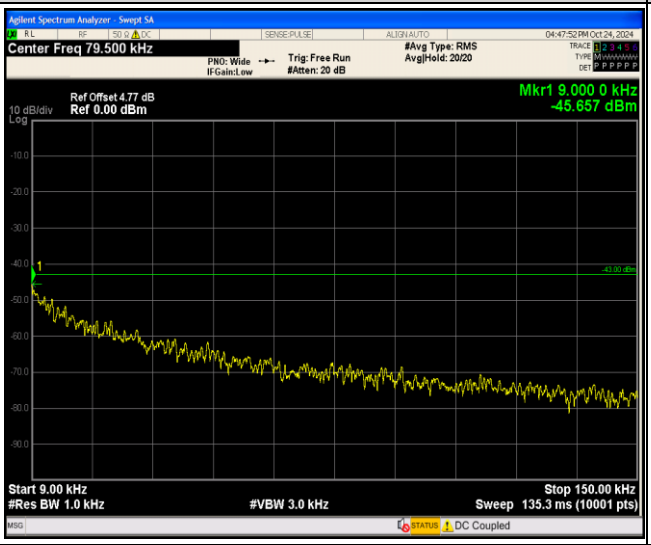
GSM1900-512-1000~18000MHz



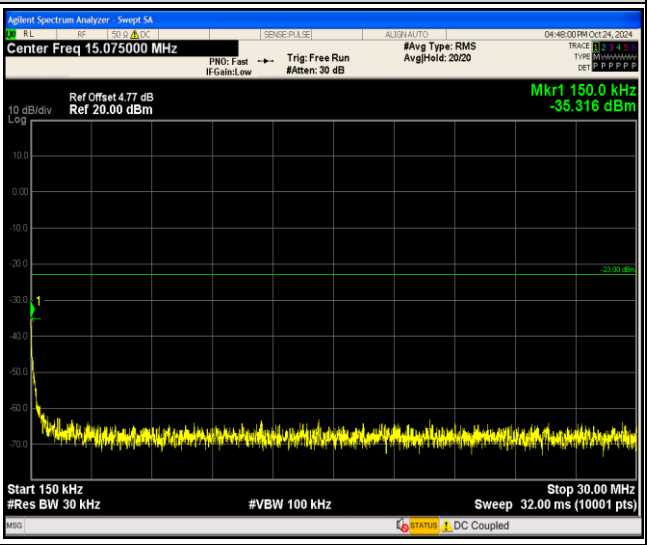
GSM1900-661-0.009~0.15MHz



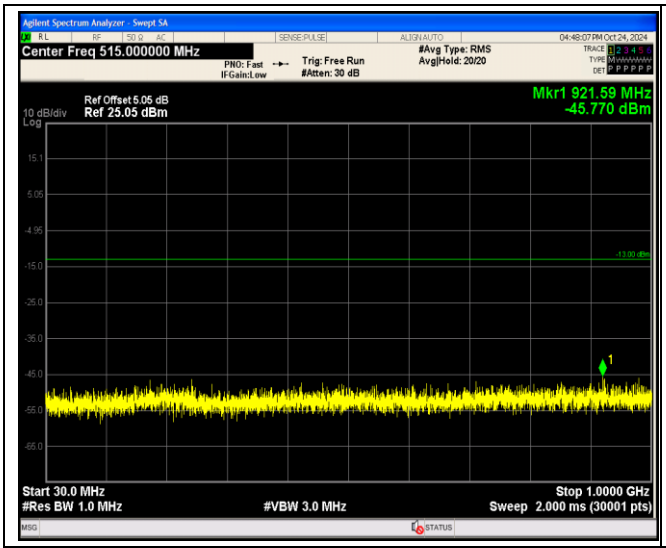
GSM1900-661-0.15~30MHz



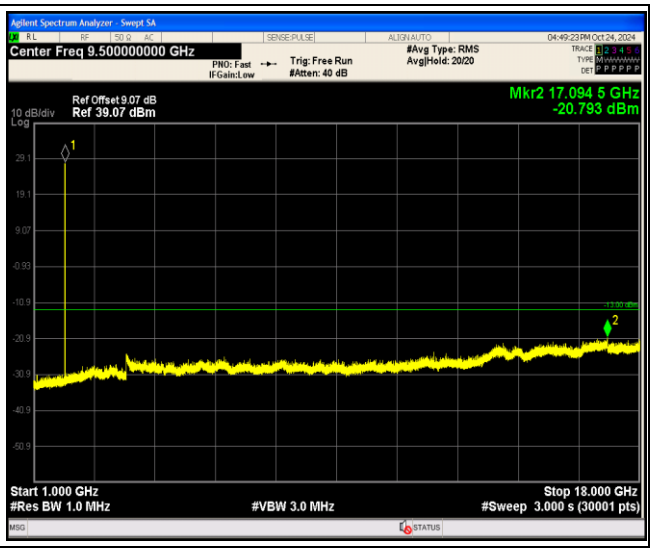
GSM1900-661-30~1000MHz



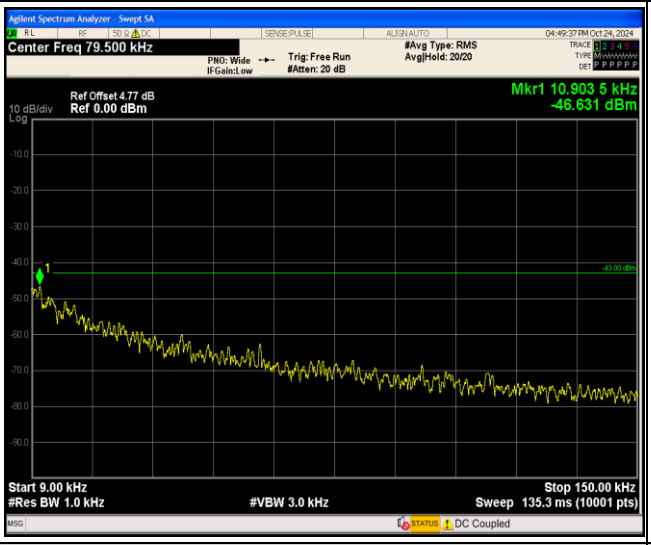
GSM1900-661-1000~18000MHz



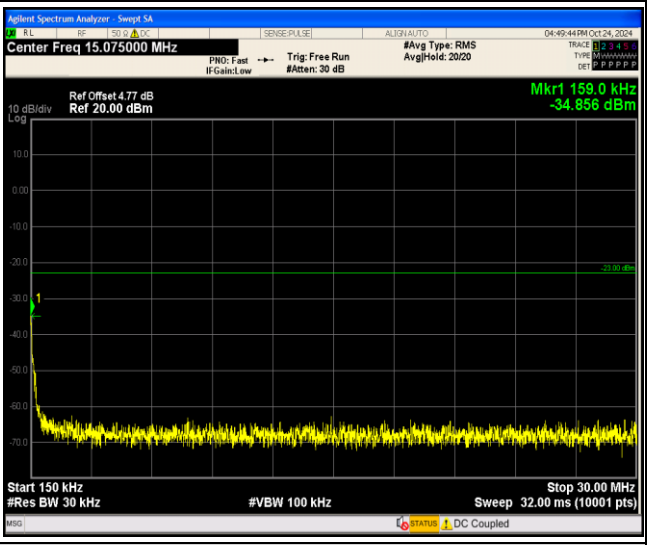
GSM1900-810-0.009~0.15MHz



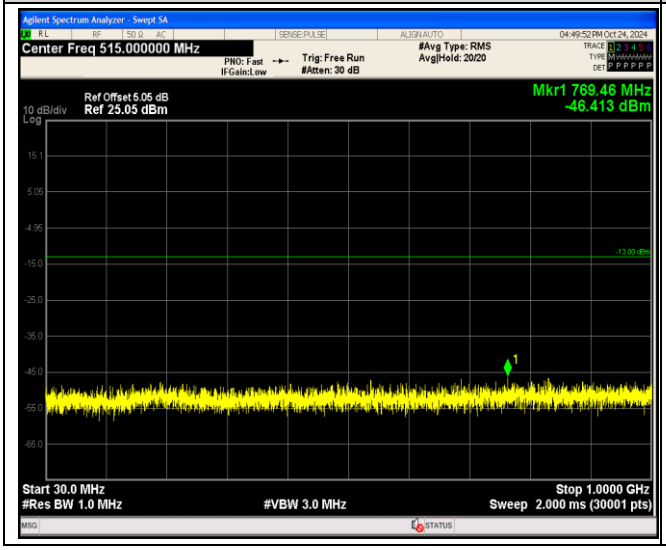
GSM1900-810-0.15~30MHz

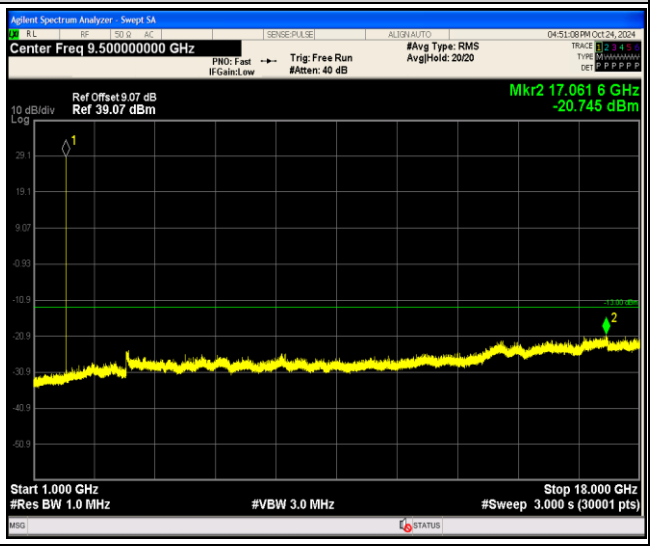


GSM1900-810-30~1000MHz



GSM1900-810-1000~18000MHz





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	3.07	0.003670	±2.5	Pass
	-20	3.20	0.003825		
	-10	5.23	0.006251		
	0	6.81	0.008140		
	10	4.07	0.004865		
	20	4.49	0.005367		
	30	5.62	0.006718		
	40	6.97	0.008331		
	50	4.42	0.005283		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.60	2.45	0.002929	±2.5	Pass
	3.85	0.90	0.001076		
	4.40	2.23	0.002666		
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	-4.13	-0.002197	Within authorized band for PCS 1900	Pass
	-20	29.83	0.015867		
	-10	-1.90	-0.001011		
	0	32.29	0.017176		
	10	-5.39	-0.002867		
	20	37.84	0.020128		
	30	-6.72	-0.003574		
	40	49.78	0.026479		
	50	-2.62	-0.001394		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.60	-5.07	-0.002697	Within authorized band for PCS 1900	Pass
	3.85	-4.10	-0.002181		
	4.40	12.07	0.006420		
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	GSM1900-661