

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	33.27	32.37	38.5	PASS
GSM850	190	3	33.25	32.35	38.5	PASS
GSM850	251	3	33.23	32.33	38.5	PASS
GSM1900	512	0	29.92	31.07	33	PASS
GSM1900	661	0	29.84	30.99	33	PASS
GSM1900	810	0	29.75	30.9	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	33.30	32.4	38.5	PASS
GPRS850	128	3	2	32.67	31.77	38.5	PASS
GPRS850	128	3	3	30.88	29.98	38.5	PASS
GPRS850	128	3	4	29.61	28.71	38.5	PASS
GPRS850	190	3	1	33.20	32.30	38.5	PASS
GPRS850	190	3	2	32.63	31.73	38.5	PASS
GPRS850	190	3	3	30.83	29.93	38.5	PASS
GPRS850	190	3	4	29.59	28.69	38.5	PASS
GPRS850	251	3	1	33.10	32.20	38.5	PASS
GPRS850	251	3	2	32.61	31.71	38.5	PASS
GPRS850	251	3	3	30.78	29.88	38.5	PASS
GPRS850	251	3	4	29.48	28.58	38.5	PASS
GPRS1900	512	0	1	29.93	31.08	33	PASS
GPRS1900	512	0	2	29.26	30.41	33	PASS
GPRS1900	512	0	3	28.28	29.43	33	PASS
GPRS1900	512	0	4	26.26	27.41	33	PASS
GPRS1900	661	0	1	29.77	30.92	33	PASS
GPRS1900	661	0	2	29.23	30.38	33	PASS
GPRS1900	661	0	3	28.30	29.45	33	PASS
GPRS1900	661	0	4	26.33	27.48	33	PASS
GPRS1900	810	0	1	29.66	30.81	33	PASS
GPRS1900	810	0	2	29.10	30.25	33	PASS
GPRS1900	810	0	3	28.17	29.32	33	PASS
GPRS1900	810	0	4	26.16	27.31	33	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For GSM1900)

ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For GSM850)

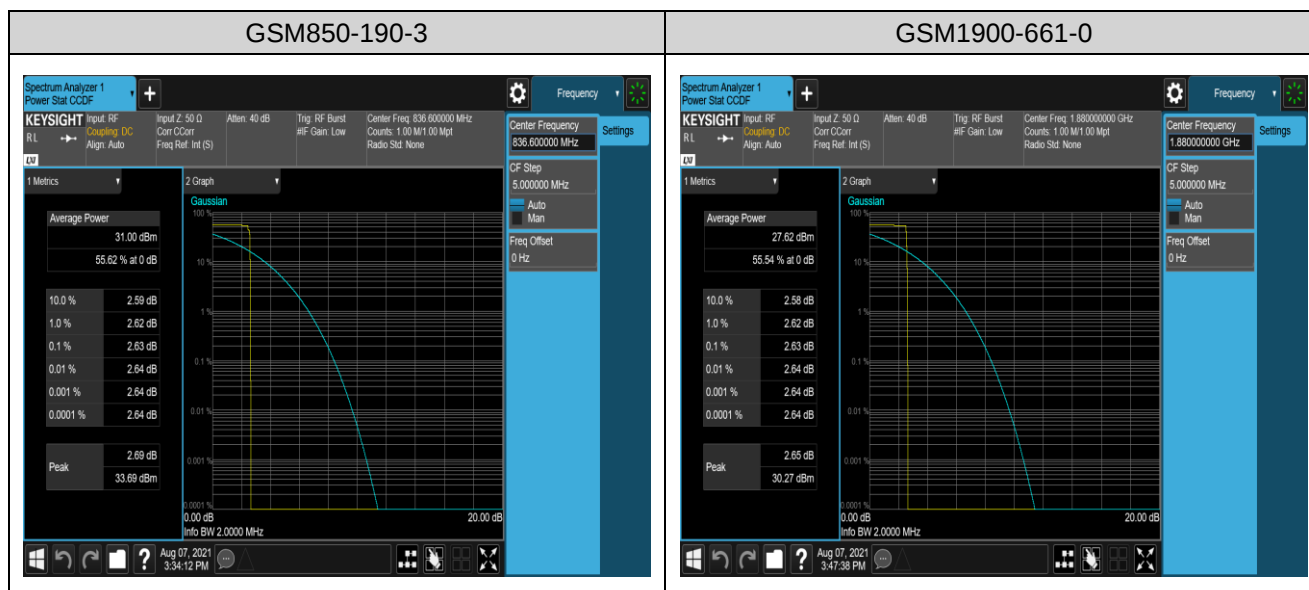
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	3	2.63	13	PASS
GSM1900	661	0	2.63	13	PASS

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

Test Graphs

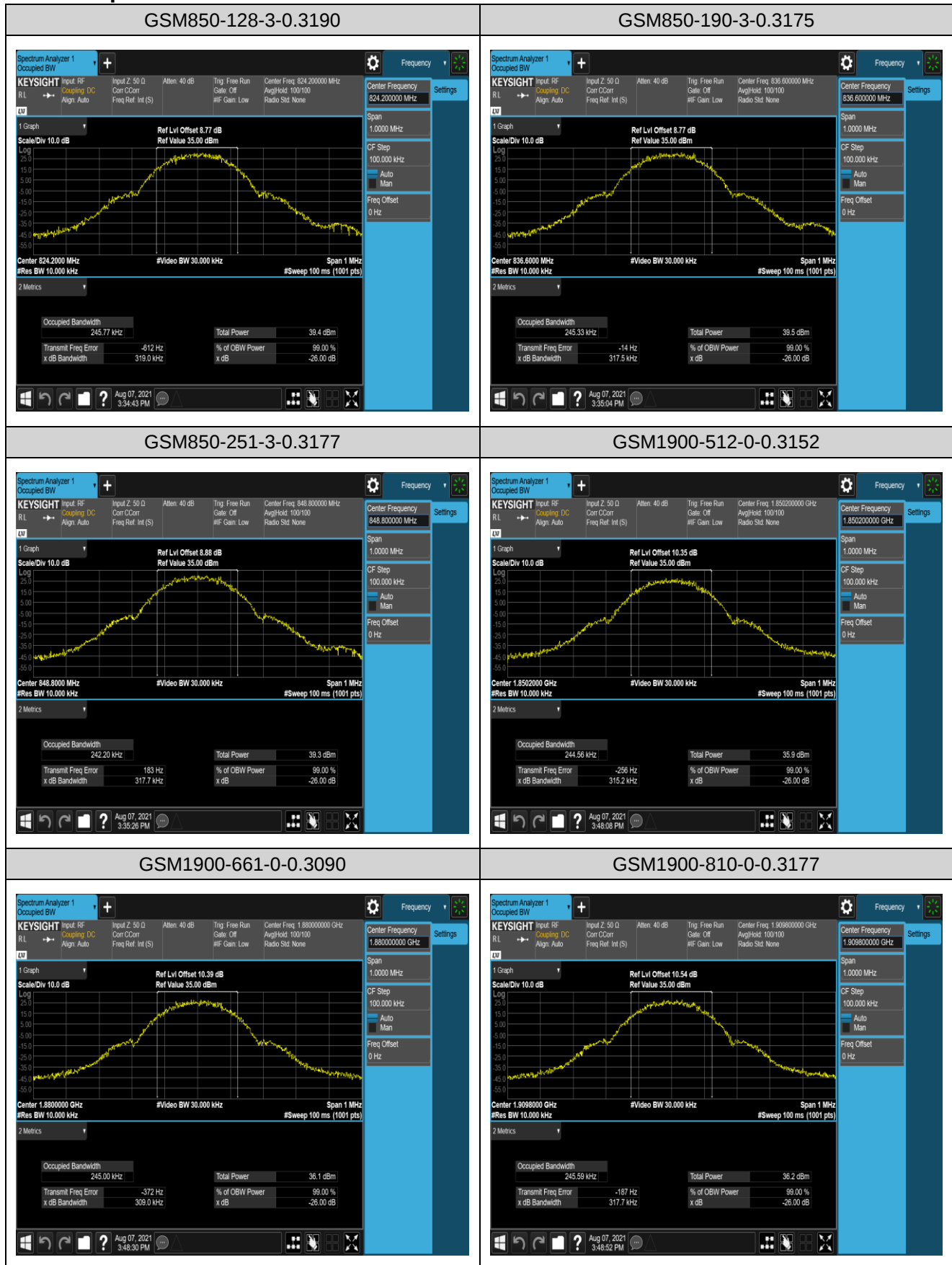


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.24577	0.3190	---	PASS
GSM850	190	3	0.24533	0.3175	---	PASS
GSM850	251	3	0.24220	0.3177	---	PASS
GSM1900	512	0	0.24456	0.3152	---	PASS
GSM1900	661	0	0.24500	0.3090	---	PASS
GSM1900	810	0	0.24559	0.3177	---	PASS

Test Graphs

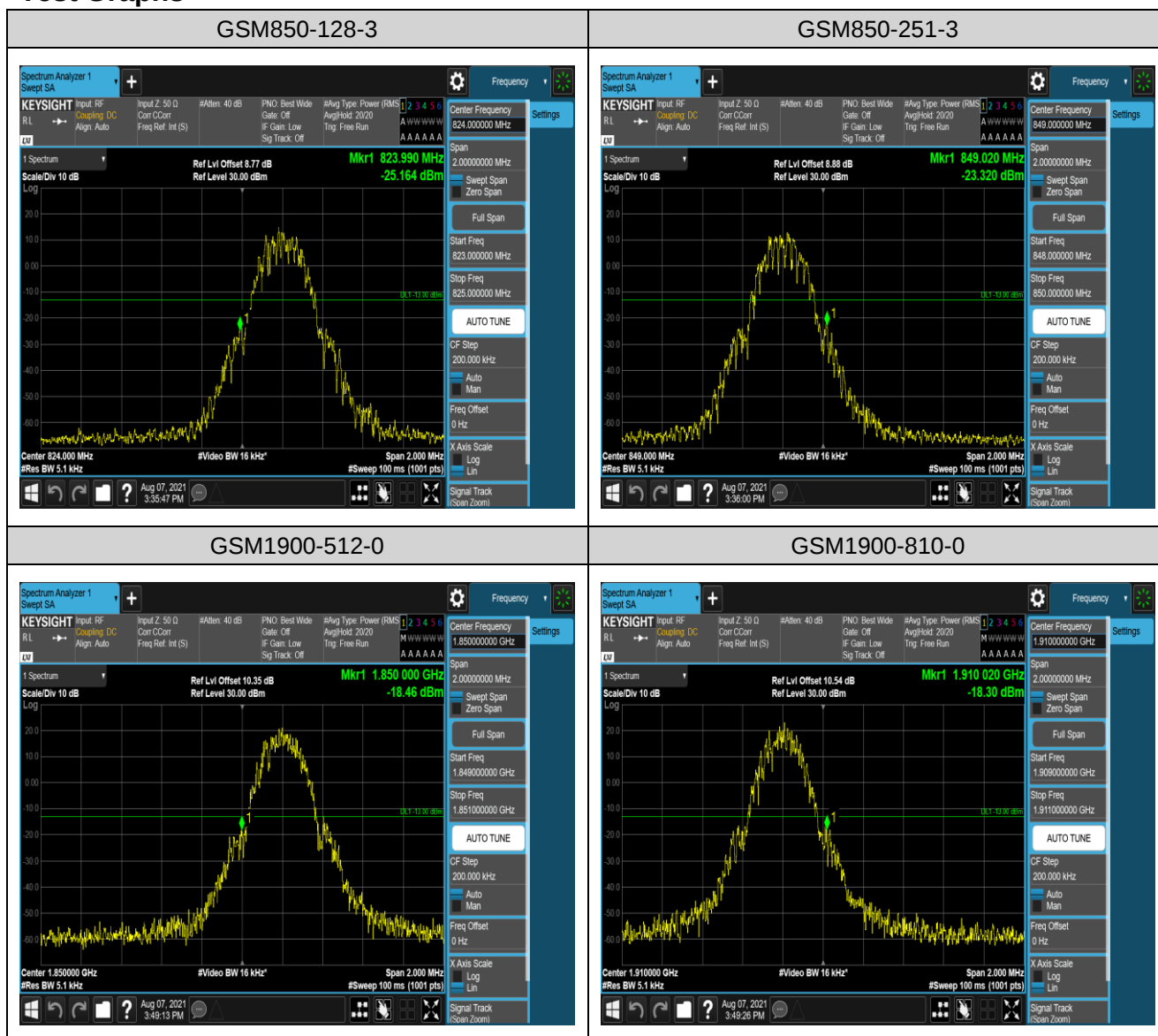


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	3	823.99	-23.04	-13	PASS
GSM850	251	3	849.02	-20.78	-13	PASS
GSM1900	512	0	1850.00	-18.08	-13	PASS
GSM1900	810	0	1910.02	-15.46	-13	PASS

Test Graphs



Appendix E: Conducted Spurious Emission

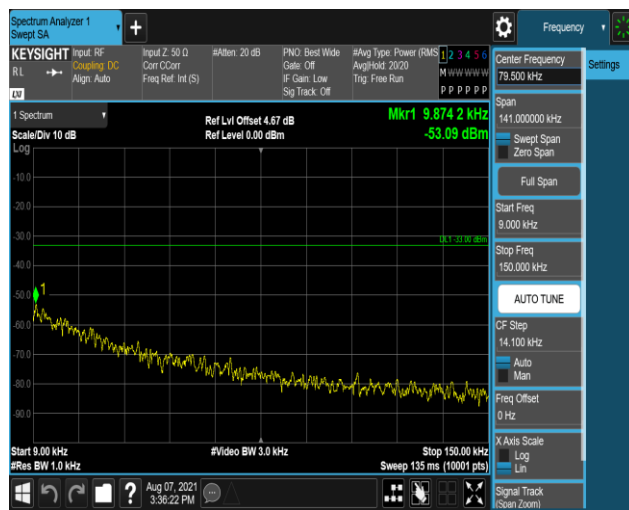
Test Result

Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	3	0.009~0.15MHz	0.01	-53.09	-33	PASS
GSM850	128	3	0.15~30MHz	0.16	-54.51	-13	PASS
GSM850	128	3	30~1000MHz	955.9	-46.11	-13	PASS
GSM850	128	3	1000~10000MHz	2546.5	-23.64	-13	PASS
GSM850	190	3	0.009~0.15MHz	0.01	-54.55	-33	PASS
GSM850	190	3	0.15~30MHz	0.15	-53.2	-13	PASS
GSM850	190	3	30~1000MHz	988.65	-46.17	-13	PASS
GSM850	190	3	1000~10000MHz	2546.2	-23.9	-13	PASS
GSM850	251	3	0.009~0.15MHz	0.01	-53.93	-33	PASS
GSM850	251	3	0.15~30MHz	0.15	-54.84	-13	PASS
GSM850	251	3	30~1000MHz	594.54	-44.98	-13	PASS
GSM850	251	3	1000~10000MHz	2546.2	-23.99	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.42	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-53.36	-23	PASS
GSM1900	512	0	30~1000MHz	784.47	-45.97	-13	PASS
GSM1900	512	0	1000~18000MHz	3866.2	-34.01	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-54.19	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-51.88	-23	PASS
GSM1900	661	0	30~1000MHz	690.93	-45.89	-13	PASS
GSM1900	661	0	1000~18000MHz	3788.57	-34.7	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.42	-43	PASS
GSM1900	810	0	0.15~30MHz	0.17	-54.61	-23	PASS
GSM1900	810	0	30~1000MHz	719.96	-46.65	-13	PASS
GSM1900	810	0	1000~18000MHz	3784.6	-33.97	-13	PASS

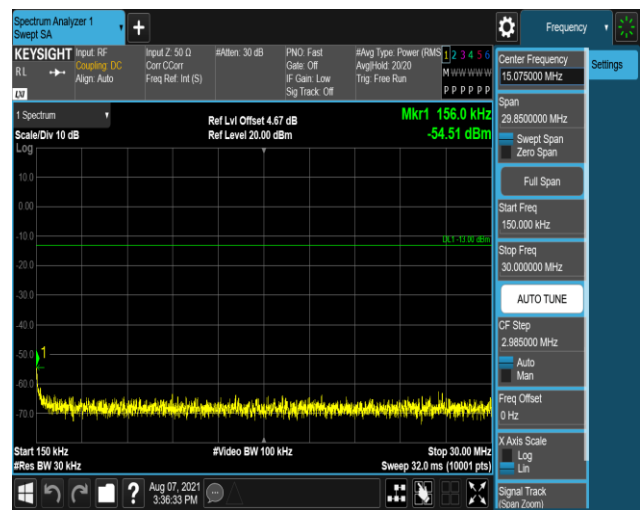
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

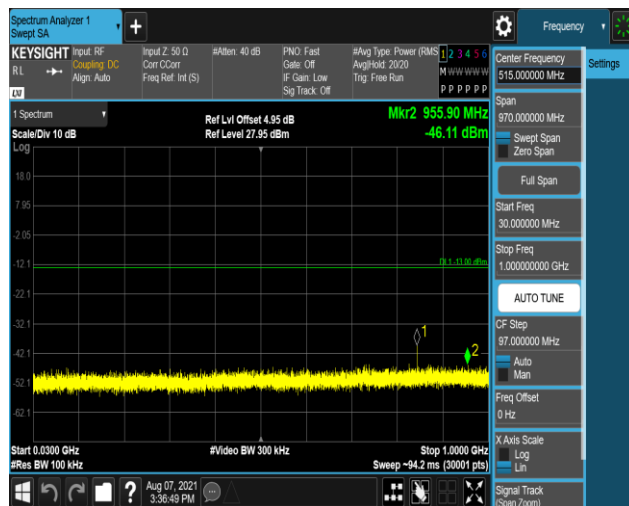
GSM850-128-3-0.009~0.15MHz



GSM850-128-3-0.15~30MHz



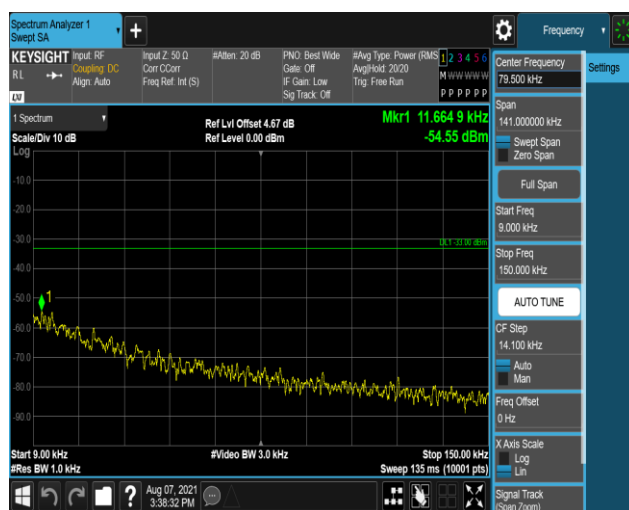
GSM850-128-3-30~1000MHz



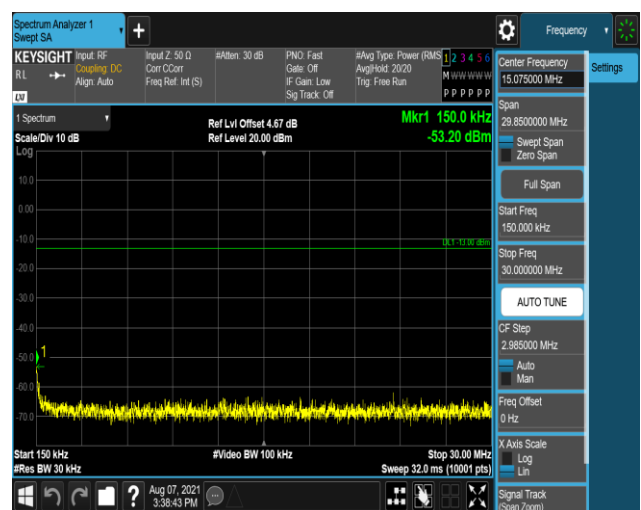
GSM850-128-3-1000~10000MHz



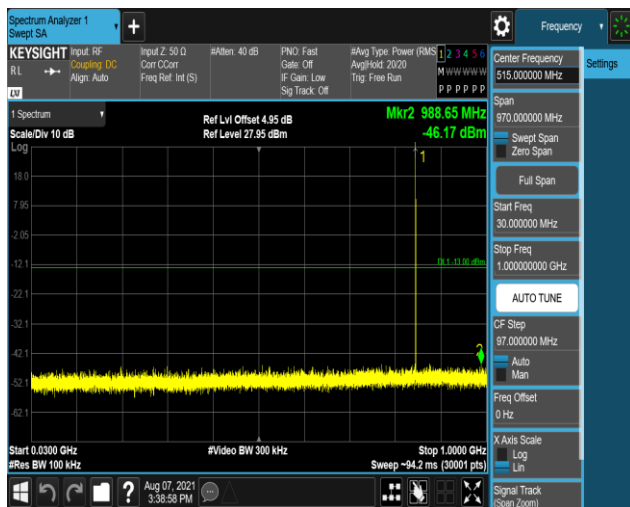
GSM850-190-3-0.009~0.15MHz



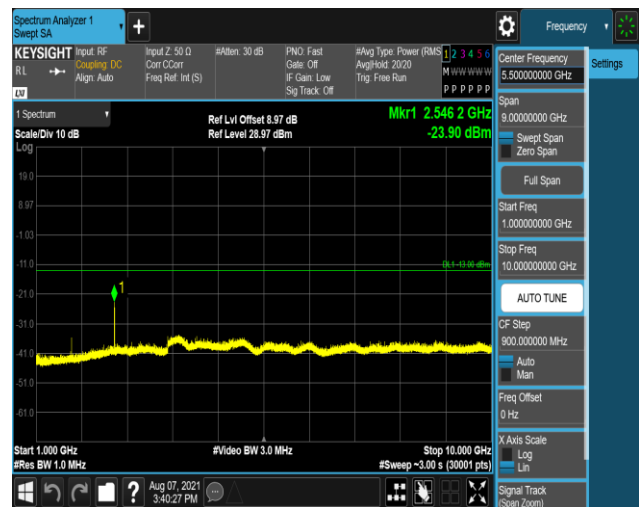
GSM850-190-3-0.15~30MHz



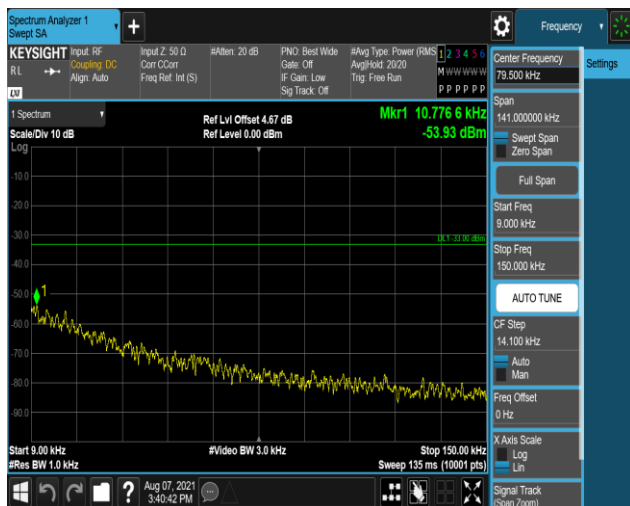
GSM850-190-3-30~1000MHz



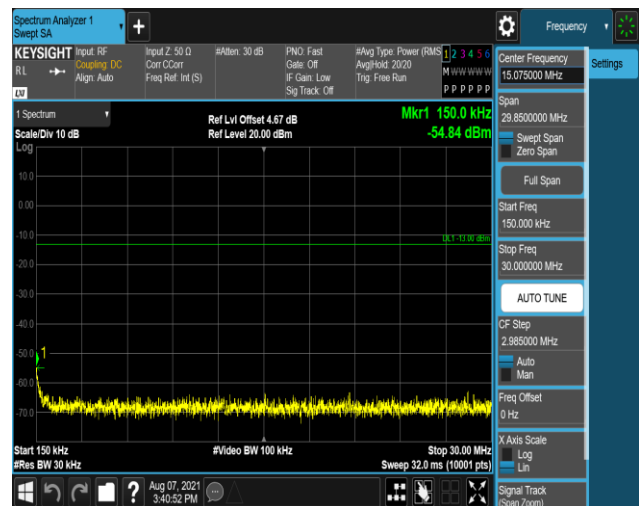
GSM850-190-3-1000~10000MHz



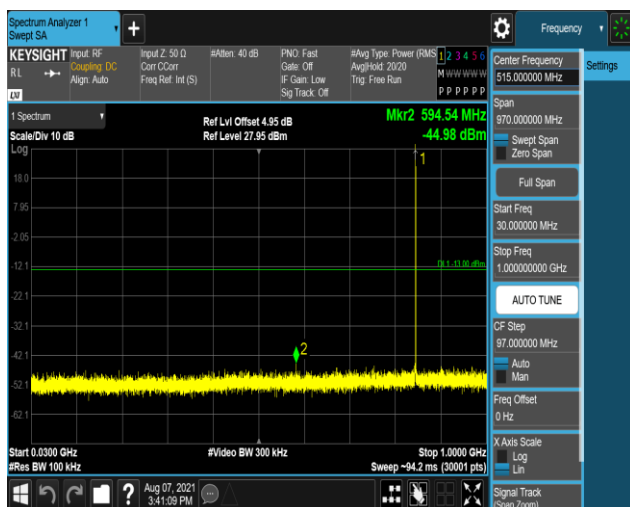
GSM850-251-3-0.009~0.15MHz



GSM850-251-3-0.15~30MHz



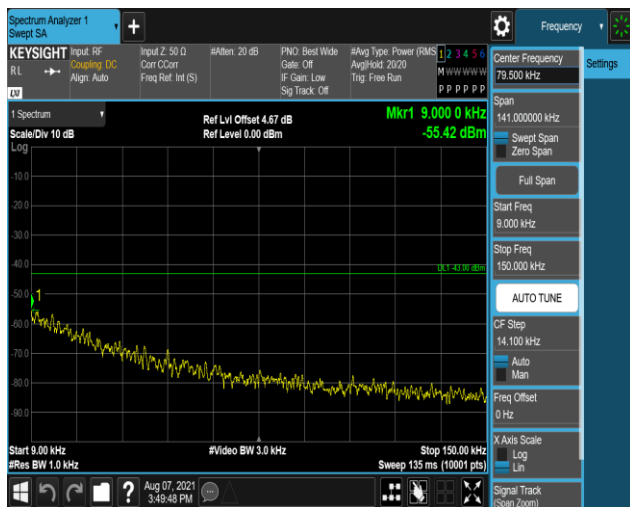
GSM850-251-3-30~1000MHz



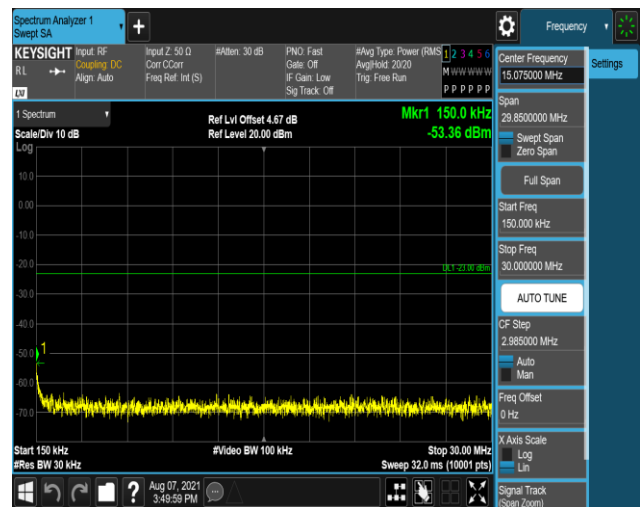
GSM850-251-3-1000~10000MHz



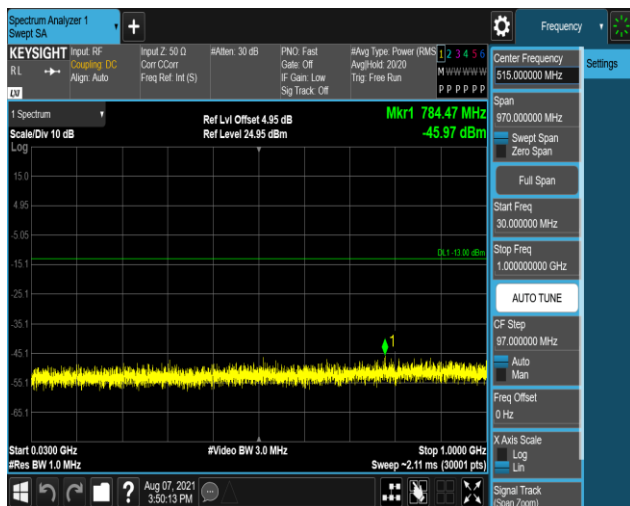
GSM1900-512-0-0.009~0.15MHz



GSM1900-512-0-0.15~30MHz



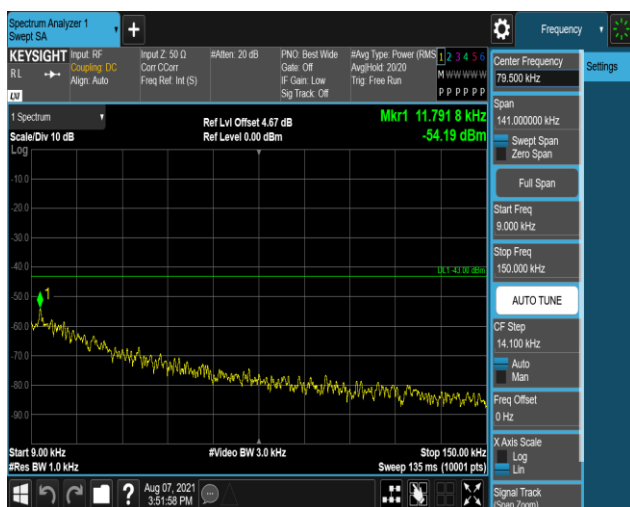
GSM1900-512-0-30~1000MHz



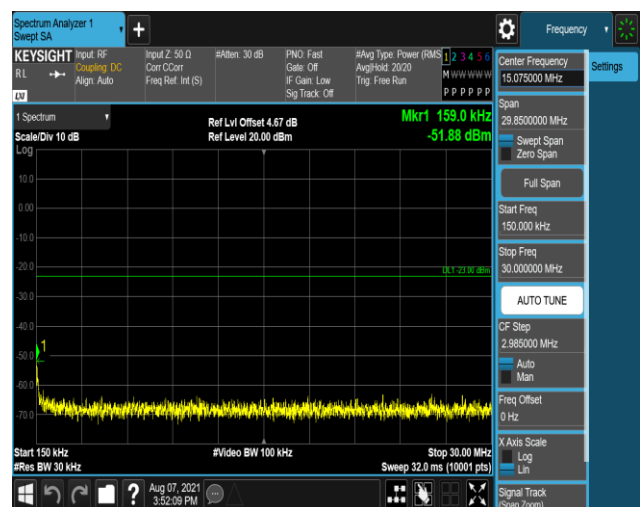
GSM1900-512-0-1000~18000MHz



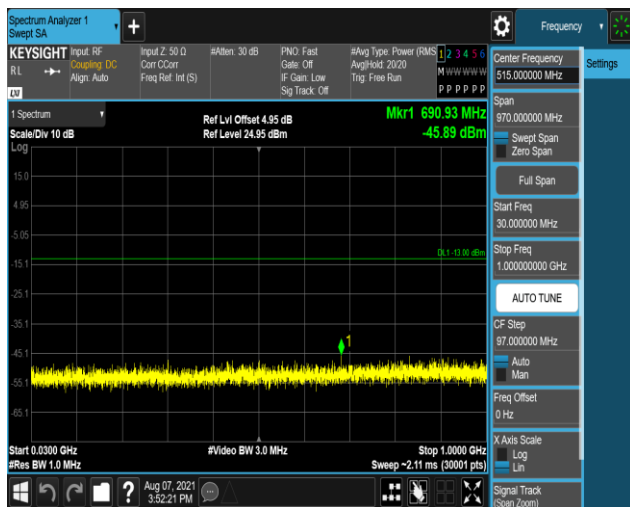
GSM1900-661-0-0.009~0.15MHz



GSM1900-661-0-0.15~30MHz



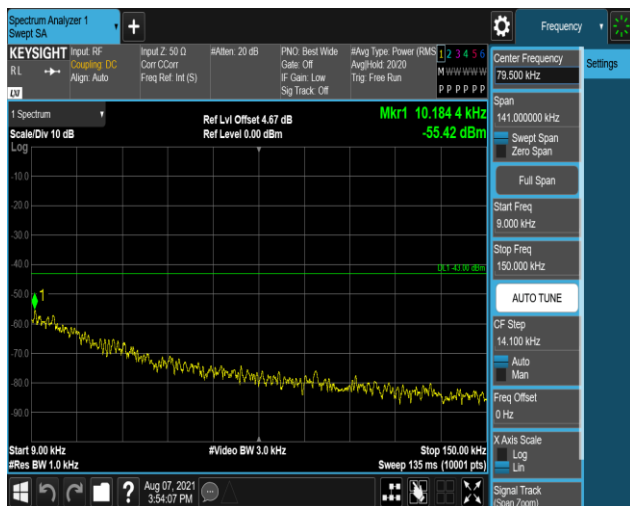
GSM1900-661-0-30~1000MHz



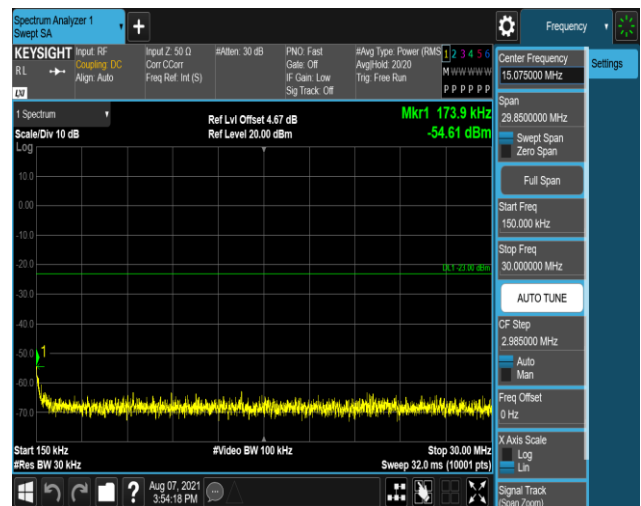
GSM1900-661-0-1000~18000MHz



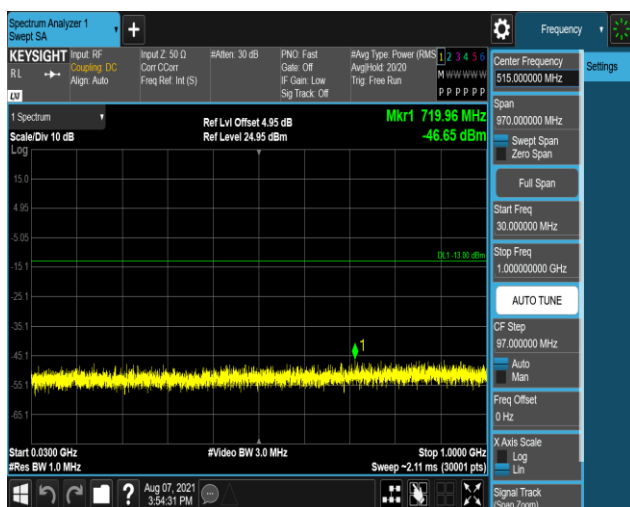
GSM1900-810-0-0.009~0.15MHz



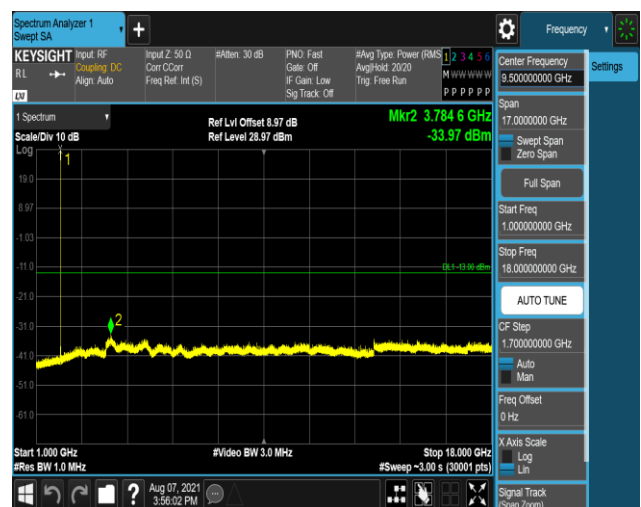
GSM1900-810-0-0.15~30MHz



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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	3.65	0.004363	±2.5	Pass
	-20	9.40	0.011236		
	-10	8.20	0.009802		
	0	7.88	0.009419		
	10	7.39	0.008833		
	20	7.68	0.009180		
	30	7.01	0.008379		
	40	7.75	0.009264		
	50	10.20	0.012192		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	8.59	0.010268	±2.5	Pass
	3.70	13.27	0.015862		
	4.20	5.36	0.006407		
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		
3.70	-30	26.38	0.014032	Within authorized band for PCS 1900	Pass
	-20	31.83	0.016931		
	-10	19.66	0.010457		
	0	22.47	0.011952		
	10	27.89	0.014835		
	20	32.93	0.017516		
	30	20.89	0.011112		
	40	26.35	0.014016		
	50	27.99	0.014888		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	36.61	0.019473	Within authorized band for PCS 1900	Pass
	3.70	30.54	0.016245		
	4.20	23.34	0.012415		
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

