

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	31.14	29.14	38.45	PASS
GSM850	190	5	31.27	29.27	38.45	PASS
GSM850	251	5	31.21	29.21	38.45	PASS
GSM1900	512	0	28.10	28.65	33.00	PASS
GSM1900	661	0	27.98	28.53	33.00	PASS
GSM1900	810	0	27.60	28.15	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	29.11	27.11	38.45	PASS
GPRS850	128	5	2	27.09	25.09	38.45	PASS
GPRS850	128	5	3	25.16	23.16	38.45	PASS
GPRS850	128	5	4	23.12	21.12	38.45	PASS
GPRS850	190	5	1	29.28	27.28	38.45	PASS
GPRS850	190	5	2	27.24	25.24	38.45	PASS
GPRS850	190	5	3	25.29	23.29	38.45	PASS
GPRS850	190	5	4	23.24	21.24	38.45	PASS
GPRS850	251	5	1	29.15	27.15	38.45	PASS
GPRS850	251	5	2	27.05	25.05	38.45	PASS
GPRS850	251	5	3	25.13	23.13	38.45	PASS
GPRS850	251	5	4	23.04	21.04	38.45	PASS
GPRS1900	512	0	1	28.60	29.15	33.00	PASS
GPRS1900	512	0	2	26.44	26.99	33.00	PASS
GPRS1900	512	0	3	24.88	25.43	33.00	PASS
GPRS1900	512	0	4	22.78	23.33	33.00	PASS
GPRS1900	661	0	1	28.60	29.15	33.00	PASS
GPRS1900	661	0	2	26.15	26.70	33.00	PASS
GPRS1900	661	0	3	24.55	25.10	33.00	PASS
GPRS1900	661	0	4	22.45	23.00	33.00	PASS
GPRS1900	810	0	1	28.20	28.75	33.00	PASS
GPRS1900	810	0	2	25.55	26.10	33.00	PASS
GPRS1900	810	0	3	23.94	24.49	33.00	PASS
GPRS1900	810	0	4	21.84	22.39	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	2.57	13	PASS
GSM1900	661	0	2.76	13	PASS

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

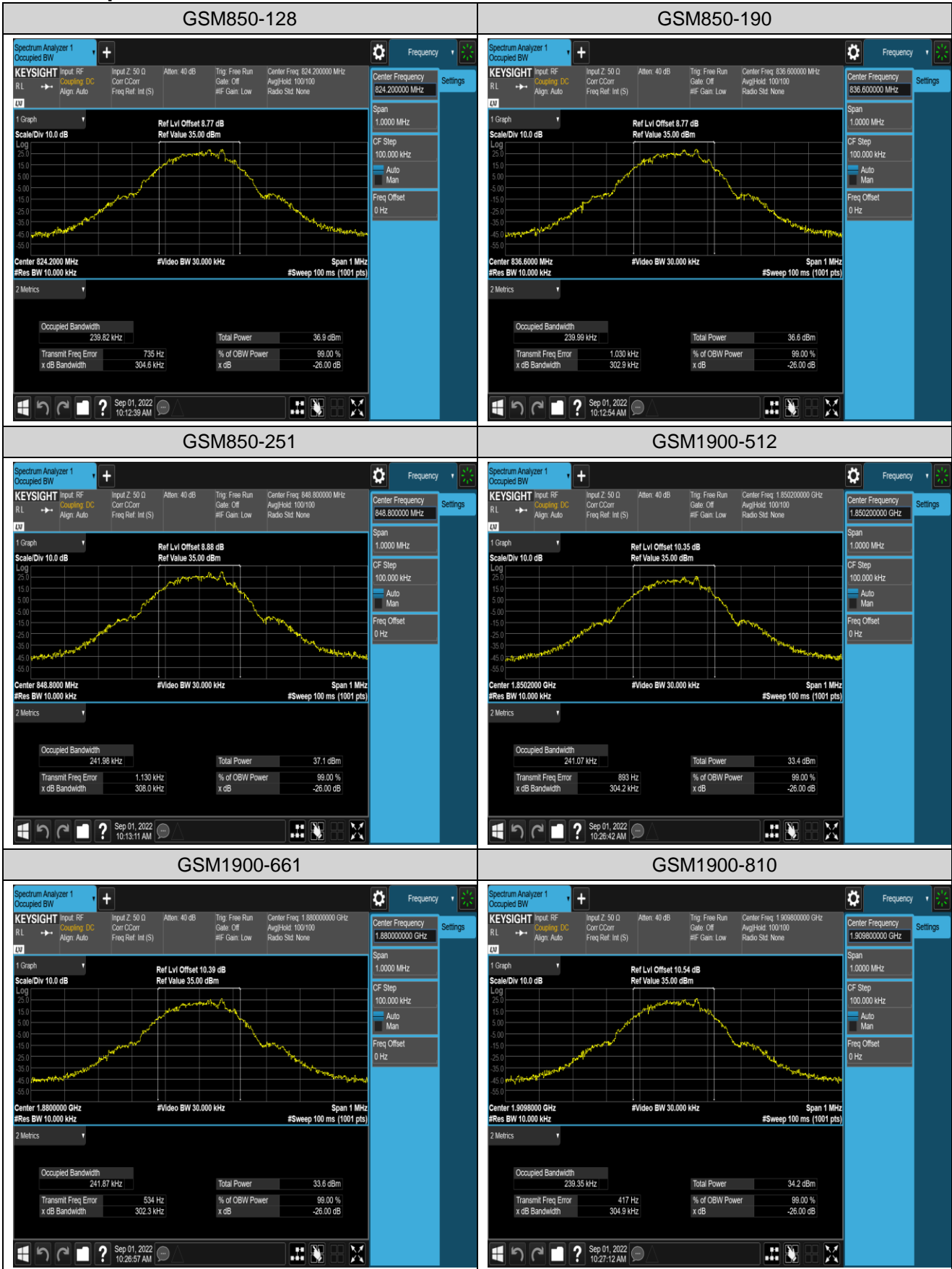
Test Graphs



Appendix C: 26dB Bandwidth and Occupied Bandwidth**Test Result**

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.23982	0.3046	---	PASS
GSM850	190	5	0.23999	0.3029	---	PASS
GSM850	251	5	0.24198	0.3080	---	PASS
GSM1900	512	0	0.24107	0.3042	---	PASS
GSM1900	661	0	0.24187	0.3023	---	PASS
GSM1900	810	0	0.23935	0.3049	---	PASS

Test Graphs

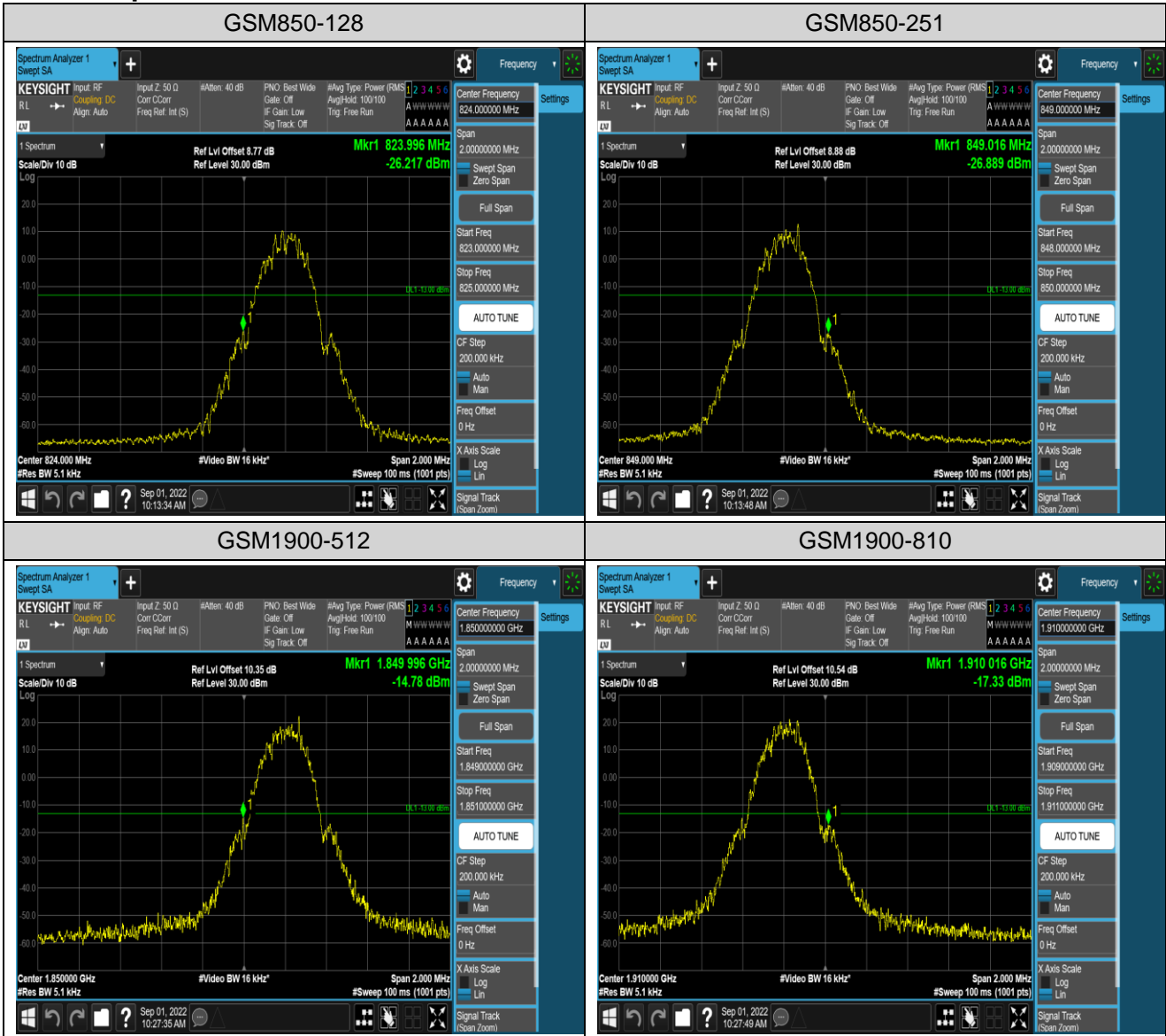


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-26.22	-13	PASS
GSM850	251	5	849.02	-26.89	-13	PASS
GSM1900	512	0	1850.00	-14.78	-13	PASS
GSM1900	810	0	1910.02	-17.33	-13	PASS

Test Graphs



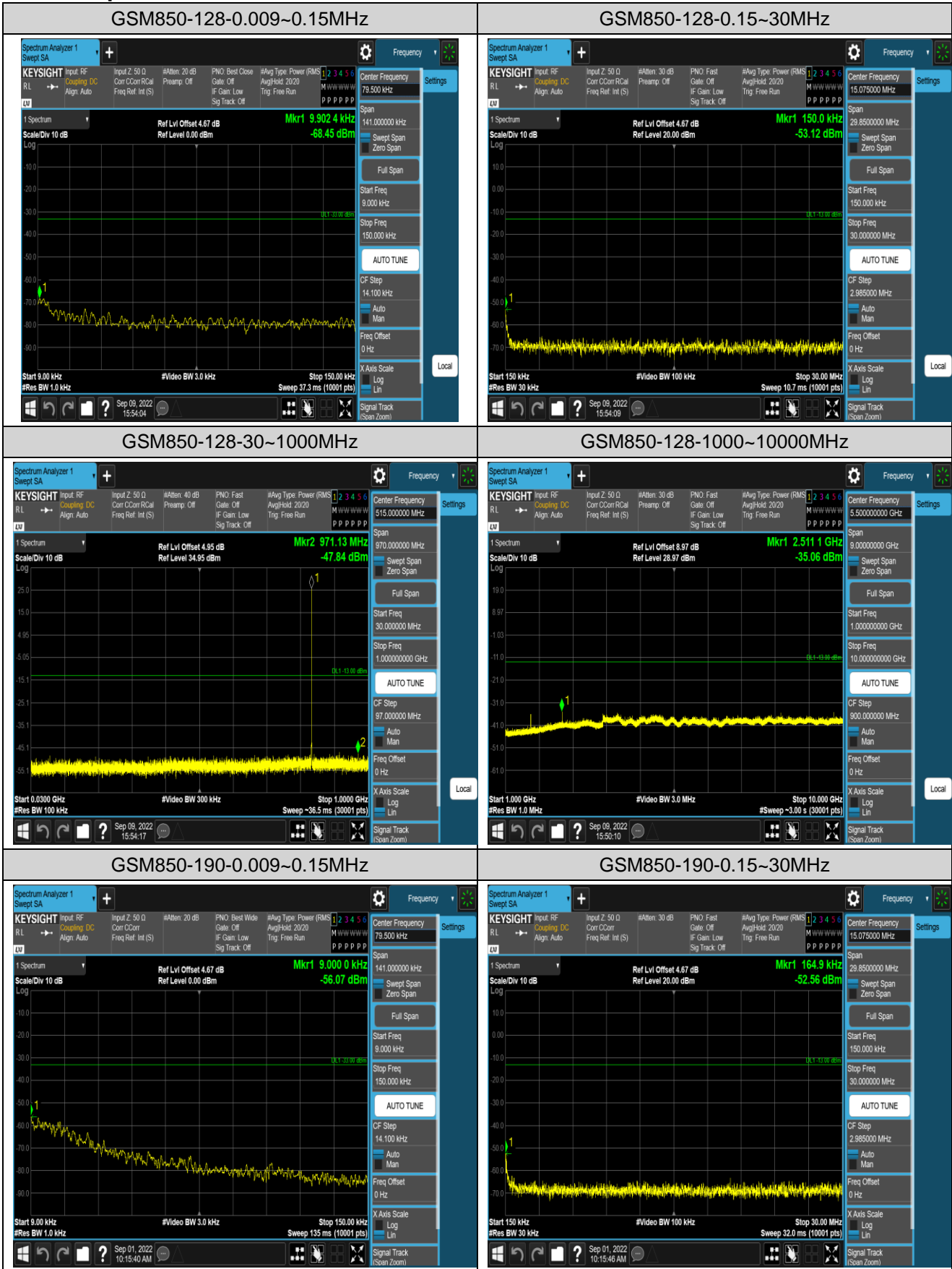
Appendix E: Conducted Spurious Emission

Test Result

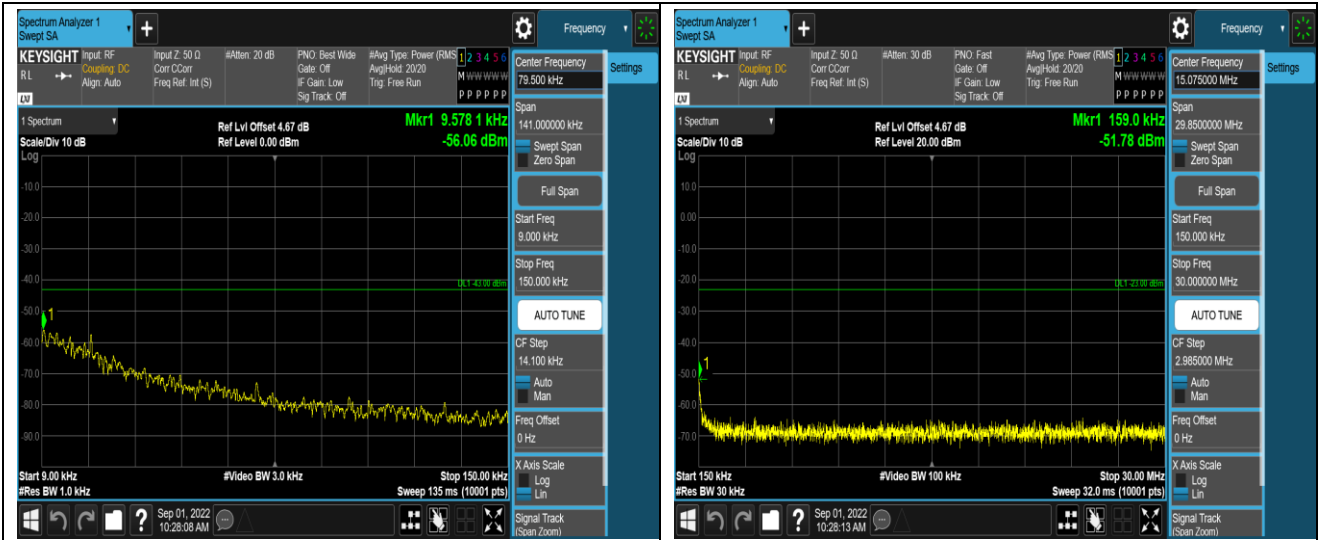
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-55.84	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-53.07	-13	PASS
GSM850	128	5	30~1000MHz	937.05	-46.72	-13	PASS
GSM850	128	5	1000~10000MHz	2546.2	-27.65	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-56.07	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-52.56	-13	PASS
GSM850	190	5	30~1000MHz	951.66	-46.91	-13	PASS
GSM850	190	5	1000~10000MHz	2546.5	-27.76	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.93	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-51.99	-13	PASS
GSM850	251	5	30~1000MHz	955.38	-46.4	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-27.91	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.06	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-51.78	-23	PASS
GSM1900	512	0	30~1000MHz	714.79	-47	-13	PASS
GSM1900	512	0	1000~18000MHz	3726.8	-35	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.53	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-54.1	-23	PASS
GSM1900	661	0	30~1000MHz	530.49	-47.09	-13	PASS
GSM1900	661	0	1000~18000MHz	3799.9	-34.52	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.5	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-53.85	-23	PASS
GSM1900	810	0	30~1000MHz	841.76	-46.98	-13	PASS
GSM1900	810	0	1000~18000MHz	1783.13	-28.03	-13	PASS

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

Test Graphs

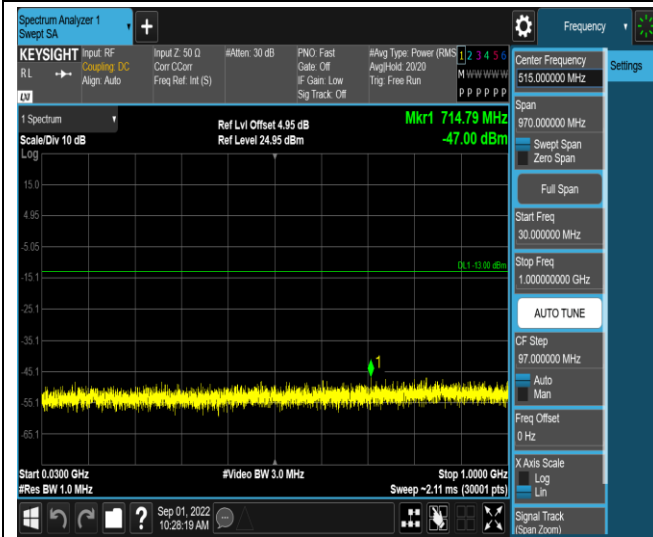






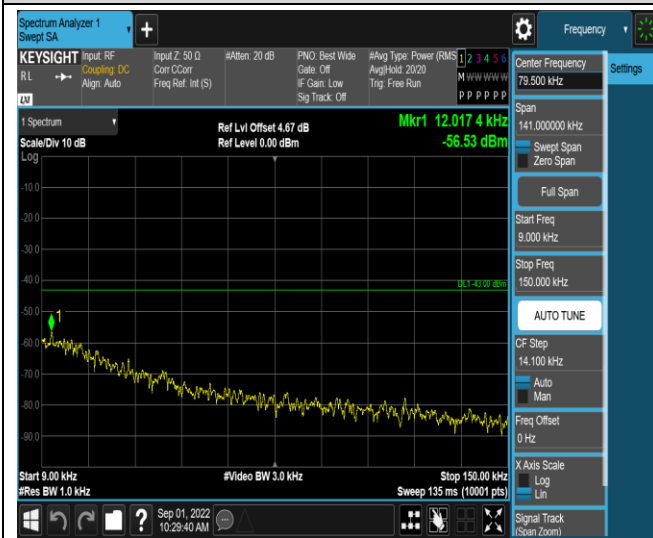
GSM1900-512-30~1000MHz

GSM1900-512-1000~18000MHz



GSM1900-661-0.009~0.15MHz

GSM1900-661-0.15~30MHz



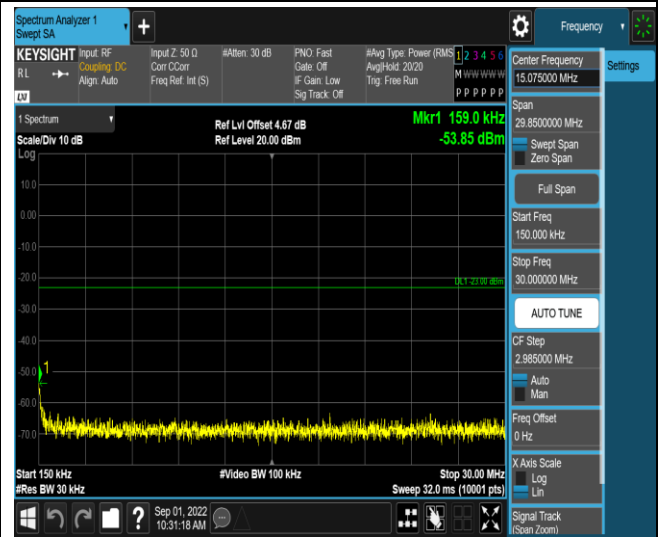
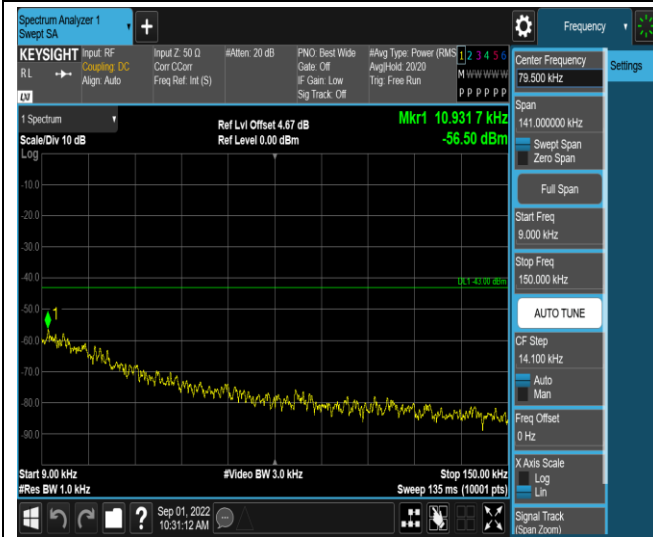
GSM1900-661-30~1000MHz

GSM1900-661-1000~18000MHz



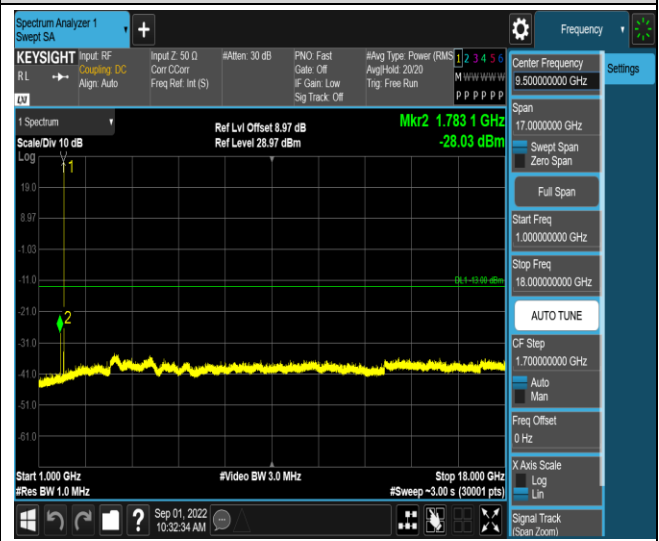
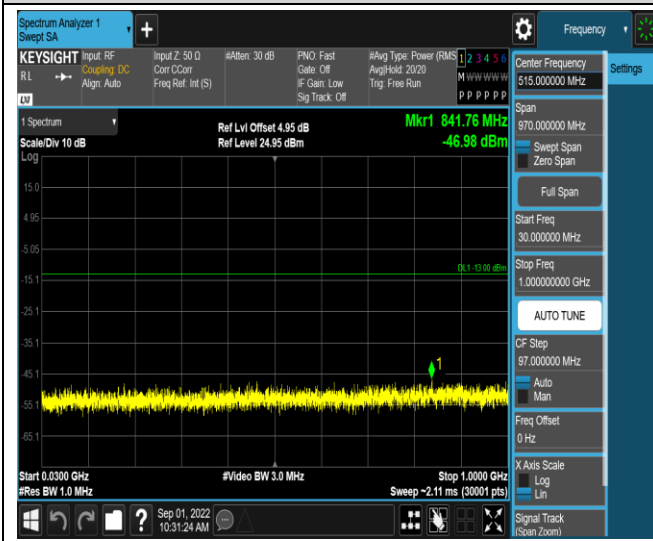
GSM1900-810-0.009~0.15MHz

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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	1.81	0.002164	±2.5	Pass
	-20	3.49	0.004172		
	-10	2.62	0.003132		
	0	2.39	0.002857		
	10	5.00	0.005977		
	20	-1.87	-0.002235		
	30	2.91	0.003478		
	40	2.62	0.003132		
	50	3.45	0.004124		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-0.16	-0.000191	±2.5	Pass
	3.70	4.13	0.004937		
	4.20	0.29	0.000347		
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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-6.04	-0.003213	Within authorized band for PCS 1900	Pass
	-20	-11.69	-0.006218		
	-10	5.94	0.003160		
	0	1.55	0.000824		
	10	-3.94	-0.002096		
	20	-3.33	-0.001771		
	30	-8.01	-0.004261		
	40	-8.27	-0.004399		
	50	-9.88	-0.005255		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	5.71	0.003037	Within authorized band for PCS 1900	Pass
	3.70	1.32	0.000702		
	4.20	2.91	0.001548		
<i>Remark: All channel had been tested, but only the worst case data displayed in this report.</i>					

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

