

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	32.40	30.85	38.45	PASS
GSM850	190	5	32.80	31.25	38.45	PASS
GSM850	251	5	32.91	31.36	38.45	PASS
GSM1900	512	0	30.19	31.39	33.00	PASS
GSM1900	661	0	30.02	31.22	33.00	PASS
GSM1900	810	0	29.88	31.08	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.55	31.00	38.45	PASS
GPRS850	128	5	2	31.66	30.11	38.45	PASS
GPRS850	128	5	3	29.71	28.16	38.45	PASS
GPRS850	128	5	4	28.38	26.83	38.45	PASS
GPRS850	190	5	1	32.81	31.26	38.45	PASS
GPRS850	190	5	2	32.00	30.45	38.45	PASS
GPRS850	190	5	3	30.02	28.47	38.45	PASS
GPRS850	190	5	4	28.72	27.17	38.45	PASS
GPRS850	251	5	1	32.74	31.19	38.45	PASS
GPRS850	251	5	2	31.99	30.44	38.45	PASS
GPRS850	251	5	3	30.07	28.52	38.45	PASS
GPRS850	251	5	4	28.73	27.18	38.45	PASS
GPRS1900	512	0	1	30.30	31.50	33.00	PASS
GPRS1900	512	0	2	29.65	30.85	33.00	PASS
GPRS1900	512	0	3	28.31	29.51	33.00	PASS
GPRS1900	512	0	4	27.17	28.37	33.00	PASS
GPRS1900	661	0	1	30.00	31.20	33.00	PASS
GPRS1900	661	0	2	29.41	30.61	33.00	PASS
GPRS1900	661	0	3	27.72	28.92	33.00	PASS
GPRS1900	661	0	4	26.50	27.70	33.00	PASS
GPRS1900	810	0	1	29.90	31.10	33.00	PASS
GPRS1900	810	0	2	29.40	30.60	33.00	PASS
GPRS1900	810	0	3	27.76	28.96	33.00	PASS
GPRS1900	810	0	4	26.66	27.86	33.00	PASS

Remark: $EIRP (dBm) = \text{Conducted power (dBm)} + \text{Antenna Gain (dBi)}$. (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	2.7	13	PASS
GSM1900	661	0	2.62	13	PASS

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

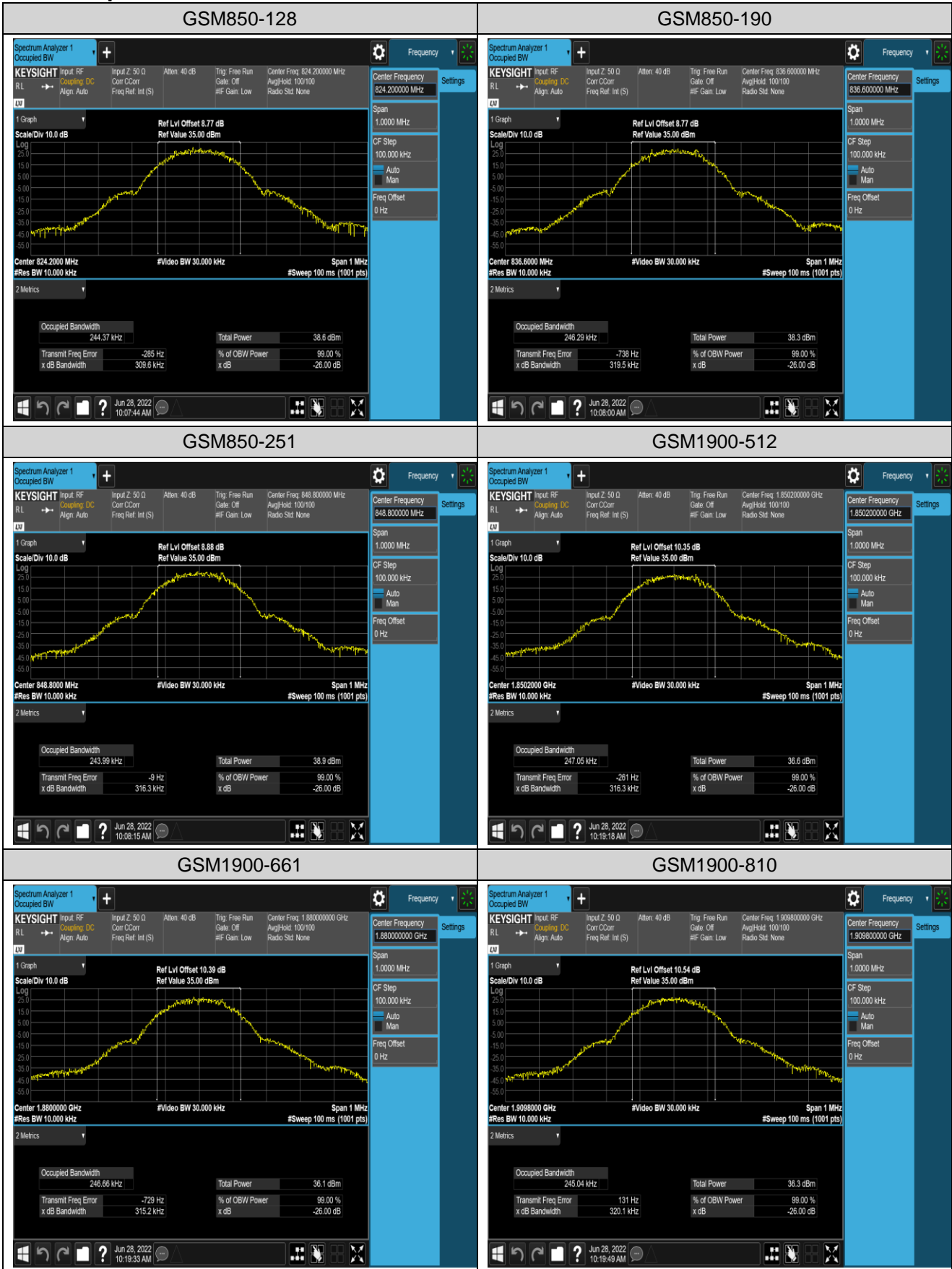
Test Graphs



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

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24437	0.3096	---	PASS
GSM850	190	5	0.24629	0.3195	---	PASS
GSM850	251	5	0.24399	0.3163	---	PASS
GSM1900	512	0	0.24705	0.3163	---	PASS
GSM1900	661	0	0.24666	0.3152	---	PASS
GSM1900	810	0	0.24504	0.3201	---	PASS

Test Graphs

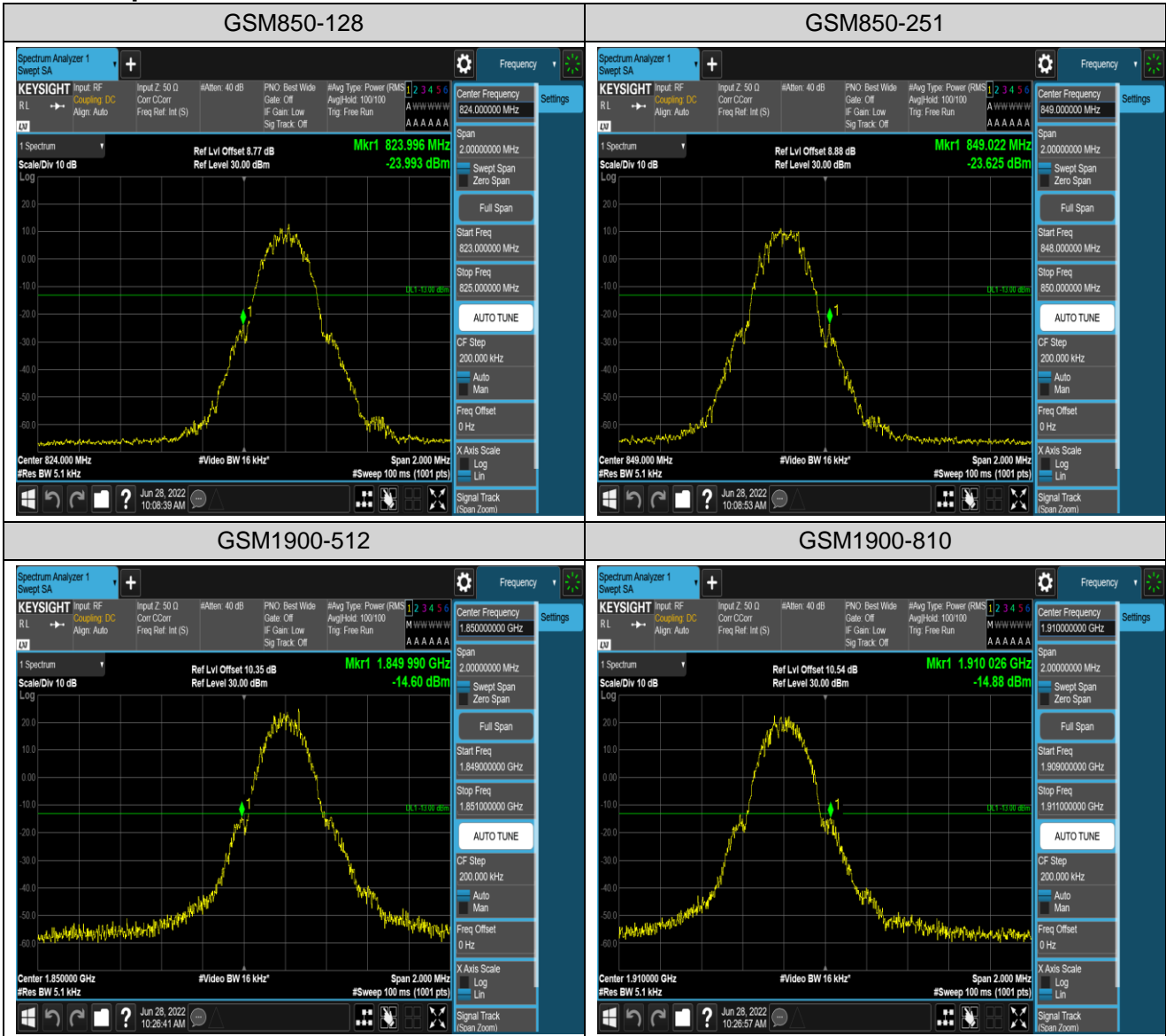


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-23.99	-13	PASS
GSM850	251	5	849.02	-23.62	-13	PASS
GSM1900	512	0	1849.99	-14.60	-13	PASS
GSM1900	810	0	1910.03	-14.88	-13	PASS

Test Graphs



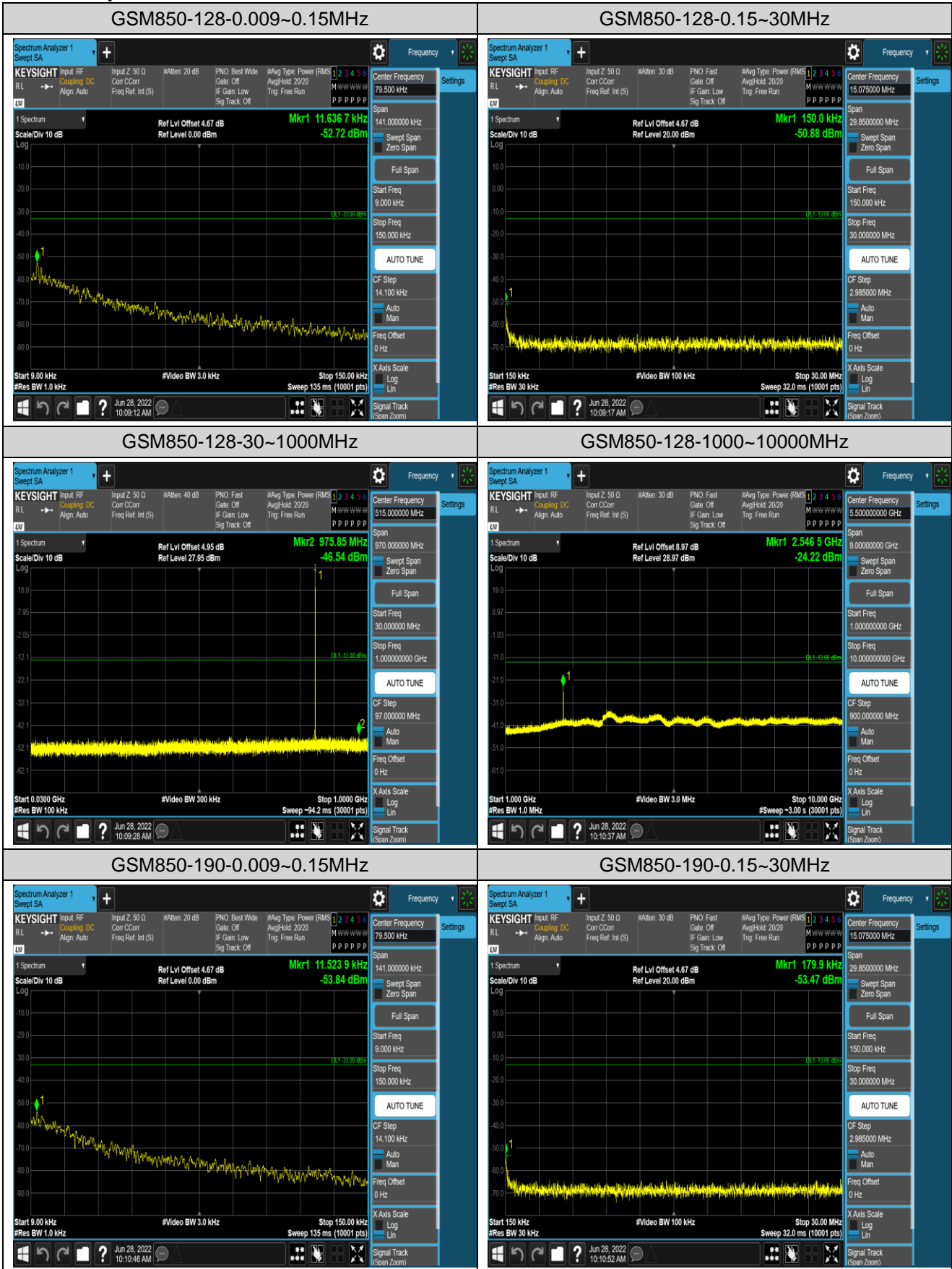
Appendix E: Conducted Spurious Emission

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	-52.72	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-50.88	-13	PASS
GSM850	128	5	30~1000MHz	975.85	-46.54	-13	PASS
GSM850	128	5	1000~10000MHz	2546.5	-24.22	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-53.84	-33	PASS
GSM850	190	5	0.15~30MHz	0.18	-53.47	-13	PASS
GSM850	190	5	30~1000MHz	962.85	-45.27	-13	PASS
GSM850	190	5	1000~10000MHz	2546.2	-24.29	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.11	-33	PASS
GSM850	251	5	0.15~30MHz	0.18	-54.32	-13	PASS
GSM850	251	5	30~1000MHz	967.6	-45.72	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-24.37	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-57.27	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-53.48	-23	PASS
GSM1900	512	0	30~1000MHz	765.65	-46.07	-13	PASS
GSM1900	512	0	1000~18000MHz	3803.3	-34.46	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-57.26	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-54.9	-23	PASS
GSM1900	661	0	30~1000MHz	729.86	-46.93	-13	PASS
GSM1900	661	0	1000~18000MHz	3778.93	-34.4	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.96	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-53.44	-23	PASS
GSM1900	810	0	30~1000MHz	914.74	-46.32	-13	PASS
GSM1900	810	0	1000~18000MHz	3708.1	-34.46	-13	PASS

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

Test Graphs





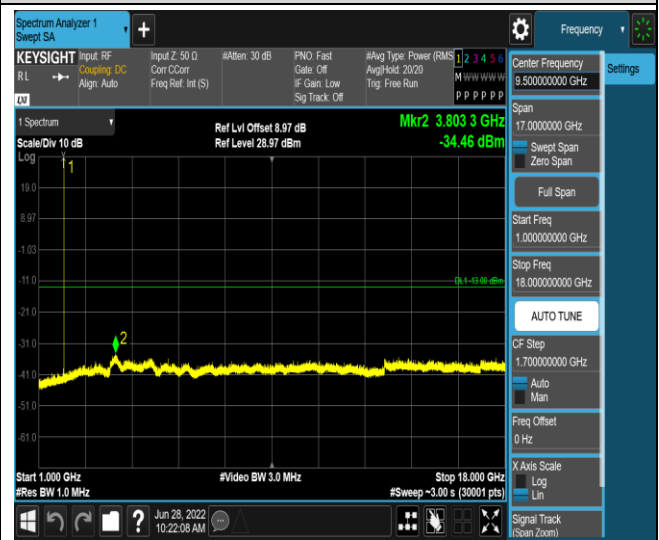


GSM1900-512-30~1000MHz

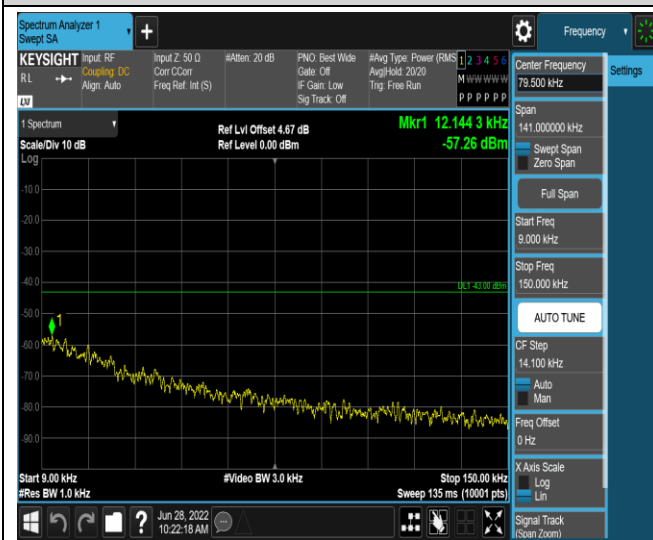
GSM1900-512-1000~18000MHz



GSM1900-661-0.009~0.15MHz



GSM1900-661-0.15~30MHz



GSM1900-661-30~1000MHz

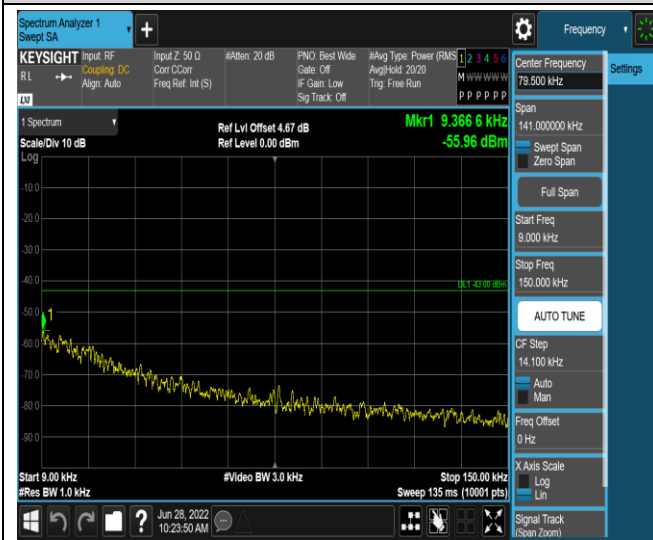


GSM1900-661-1000~18000MHz

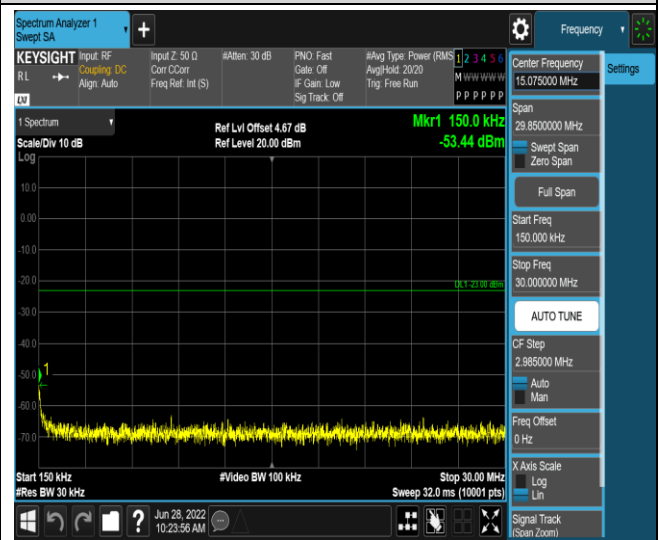


GSM1900-810-0.009~0.15MHz

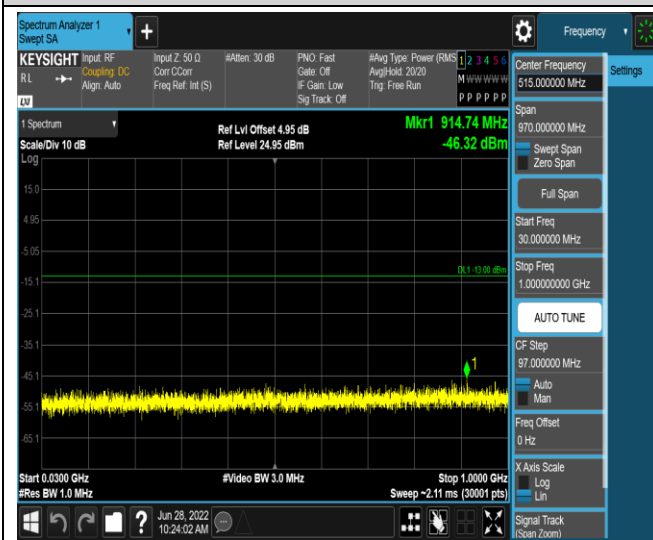
GSM1900-810-0.15~30MHz



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	-4.58	-0.005475	±2.5	Pass
	-20	-2.42	-0.002893		
	-10	-0.52	-0.000622		
	0	10.07	0.012037		
	10	9.59	0.011463		
	20	7.55	0.009025		
	30	6.62	0.007913		
	40	7.72	0.009228		
	50	4.00	0.004781		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-4.88	-0.005833	±2.5	Pass
	3.70	0.55	0.000657		
	4.25	-3.36	-0.004016		
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	26.41	0.014048	Within authorized band for PCS 1900	Pass
	-20	23.92	0.012723		
	-10	30.74	0.016351		
	0	49.24	0.026191		
	10	49.62	0.026394		
	20	47.98	0.025521		
	30	46.69	0.024835		
	40	43.52	0.023149		
	50	40.78	0.021691		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	25.60	0.013617	Within authorized band for PCS 1900	Pass
	3.70	24.28	0.012915		
	4.25	24.70	0.013138		
<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

