

## 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	32.46	30.47	38.5	PASS
GSM850	190	3	32.61	30.62	38.5	PASS
GSM850	251	3	32.64	30.65	38.5	PASS
GSM1900	512	0	30.59	30.94	33	PASS
GSM1900	661	0	30.40	30.75	33	PASS
GSM1900	810	0	30.48	30.83	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	32.48	30.49	38.5	PASS
GPRS850	128	3	2	31.65	29.66	38.5	PASS
GPRS850	128	3	3	29.80	27.81	38.5	PASS
GPRS850	128	3	4	28.58	26.59	38.5	PASS
GPRS850	190	3	1	32.60	30.61	38.5	PASS
GPRS850	190	3	2	31.79	29.8	38.5	PASS
GPRS850	190	3	3	29.91	27.92	38.5	PASS
GPRS850	190	3	4	28.67	26.68	38.5	PASS
GPRS850	251	3	1	32.61	30.62	38.5	PASS
GPRS850	251	3	2	31.82	29.83	38.5	PASS
GPRS850	251	3	3	29.92	27.93	38.5	PASS
GPRS850	251	3	4	28.69	26.7	38.5	PASS
GPRS1900	512	0	1	30.92	31.27	33	PASS
GPRS1900	512	0	2	30.38	30.73	33	PASS
GPRS1900	512	0	3	28.89	29.24	33	PASS
GPRS1900	512	0	4	27.77	28.12	33	PASS
GPRS1900	661	0	1	30.73	31.08	33	PASS
GPRS1900	661	0	2	30.20	30.55	33	PASS
GPRS1900	661	0	3	28.70	29.05	33	PASS
GPRS1900	661	0	4	27.57	27.92	33	PASS
GPRS1900	810	0	1	30.77	31.12	33	PASS
GPRS1900	810	0	2	30.30	30.65	33	PASS
GPRS1900	810	0	3	28.91	29.26	33	PASS
GPRS1900	810	0	4	27.83	28.18	33	PASS

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

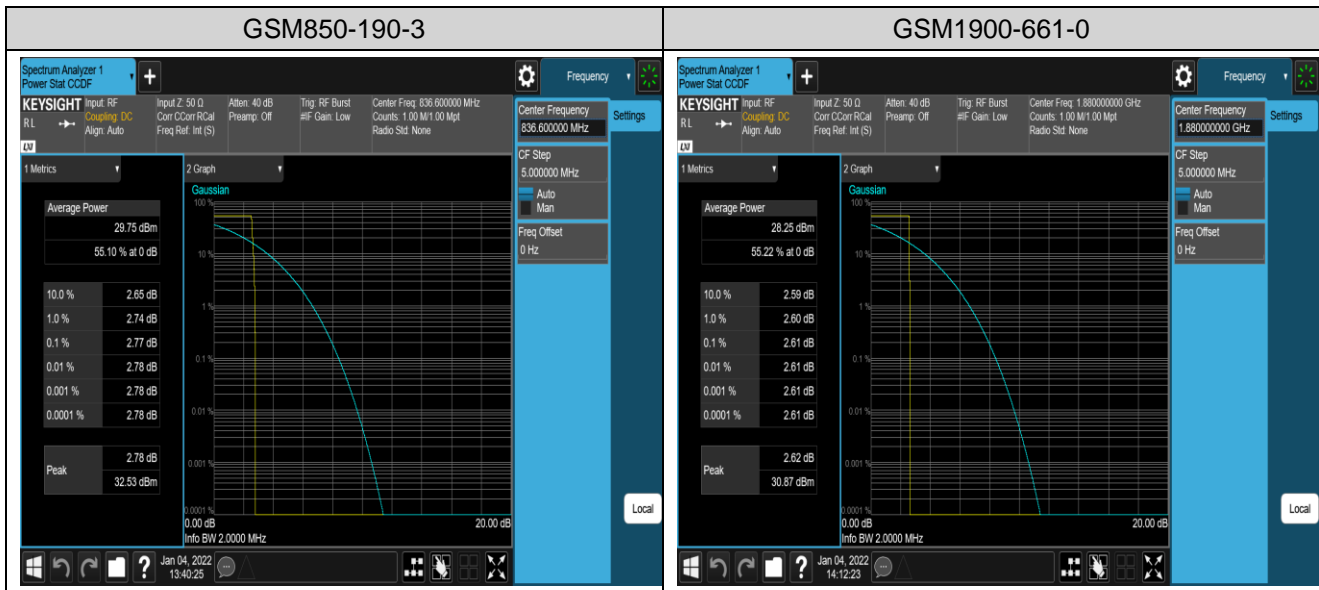
## Appendix B: Peak-to-Average Ratio(CCDF)

### Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	3	2.77	13	PASS
GSM1900	661	0	2.61	13	PASS

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

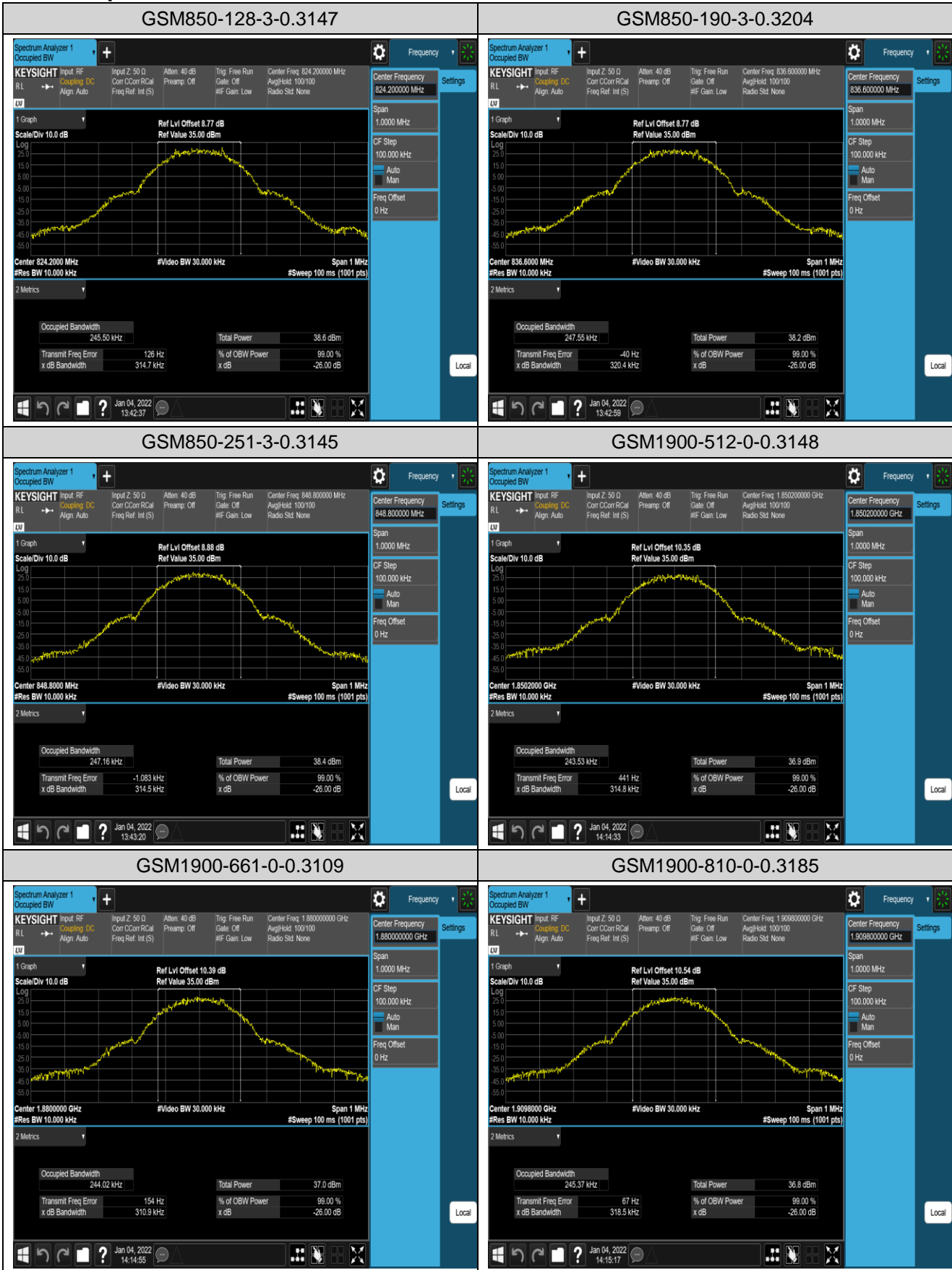
### Test Graphs



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

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.24550	0.3147	---	PASS
GSM850	190	3	0.24755	0.3204	---	PASS
GSM850	251	3	0.24716	0.3145	---	PASS
GSM1900	512	0	0.24353	0.3148	---	PASS
GSM1900	661	0	0.24402	0.3109	---	PASS
GSM1900	810	0	0.24537	0.3185	---	PASS

Test Graphs

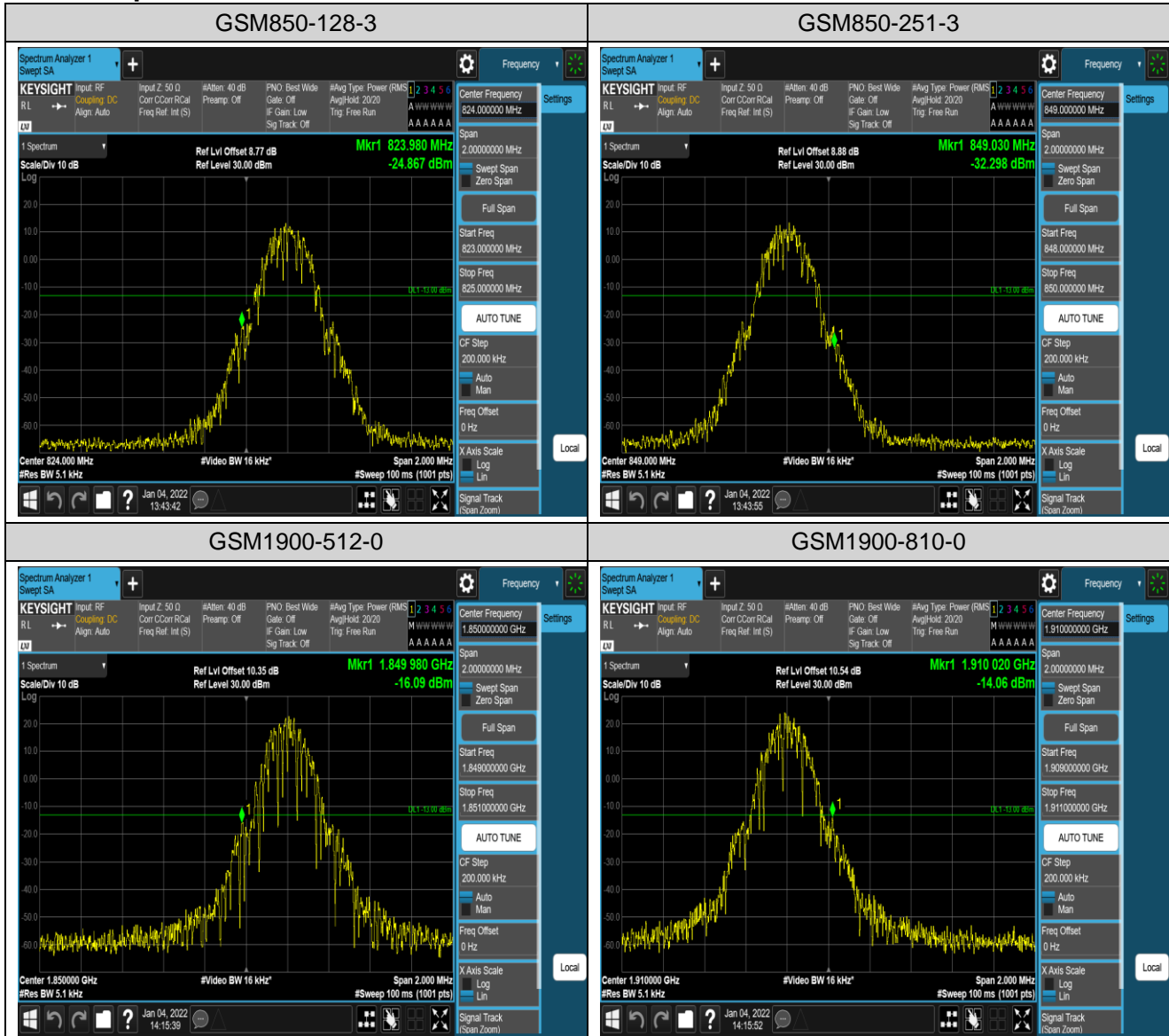


## Appendix D: Band Edge

### Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	3	823.98	-24.87	-13	PASS
GSM850	251	3	849.03	-32.30	-13	PASS
GSM1900	512	0	1849.98	-16.09	-13	PASS
GSM1900	810	0	1910.02	-14.06	-13	PASS

Test Graphs



## Appendix E: Conducted Spurious Emission

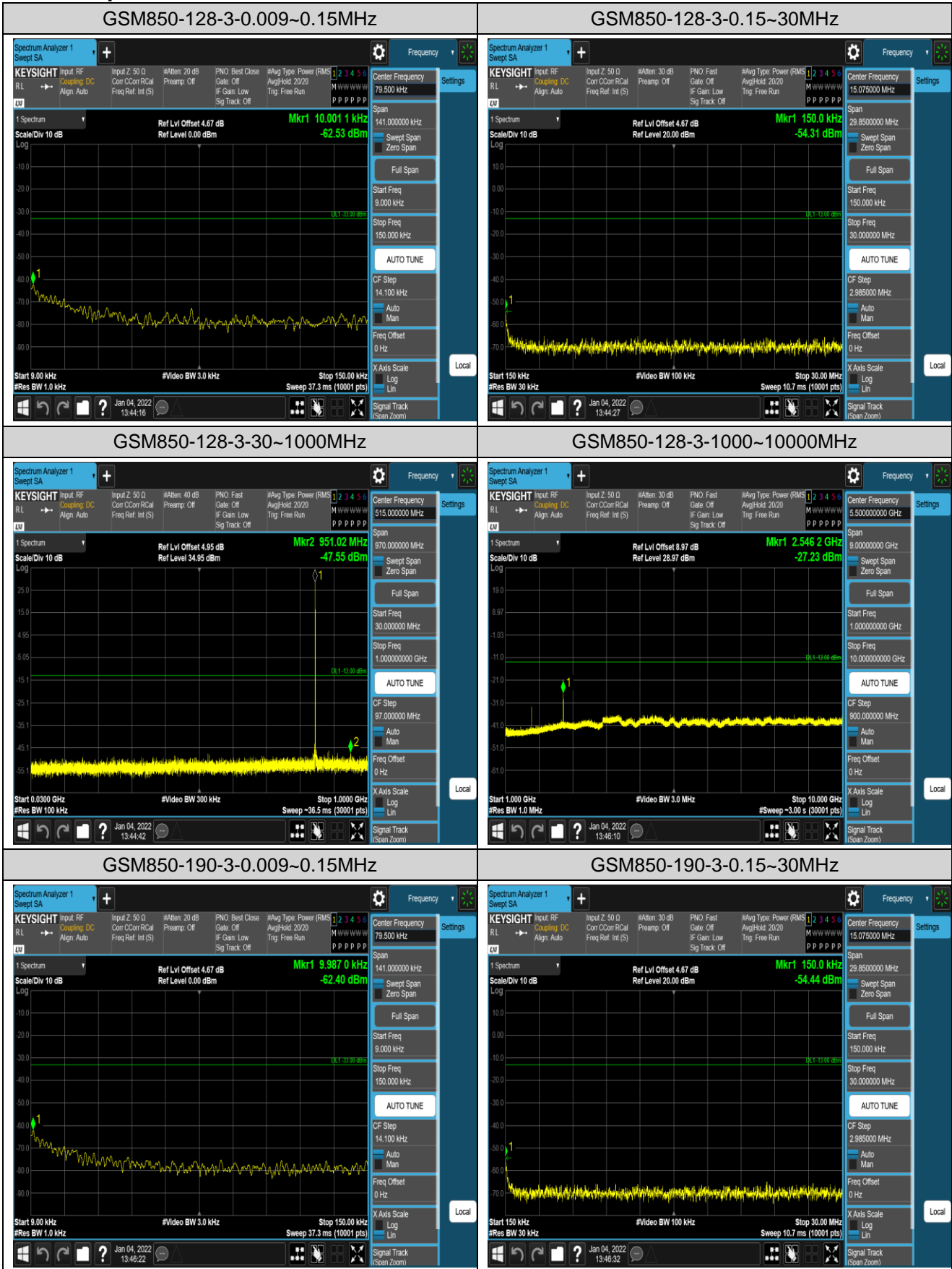
### Test Result

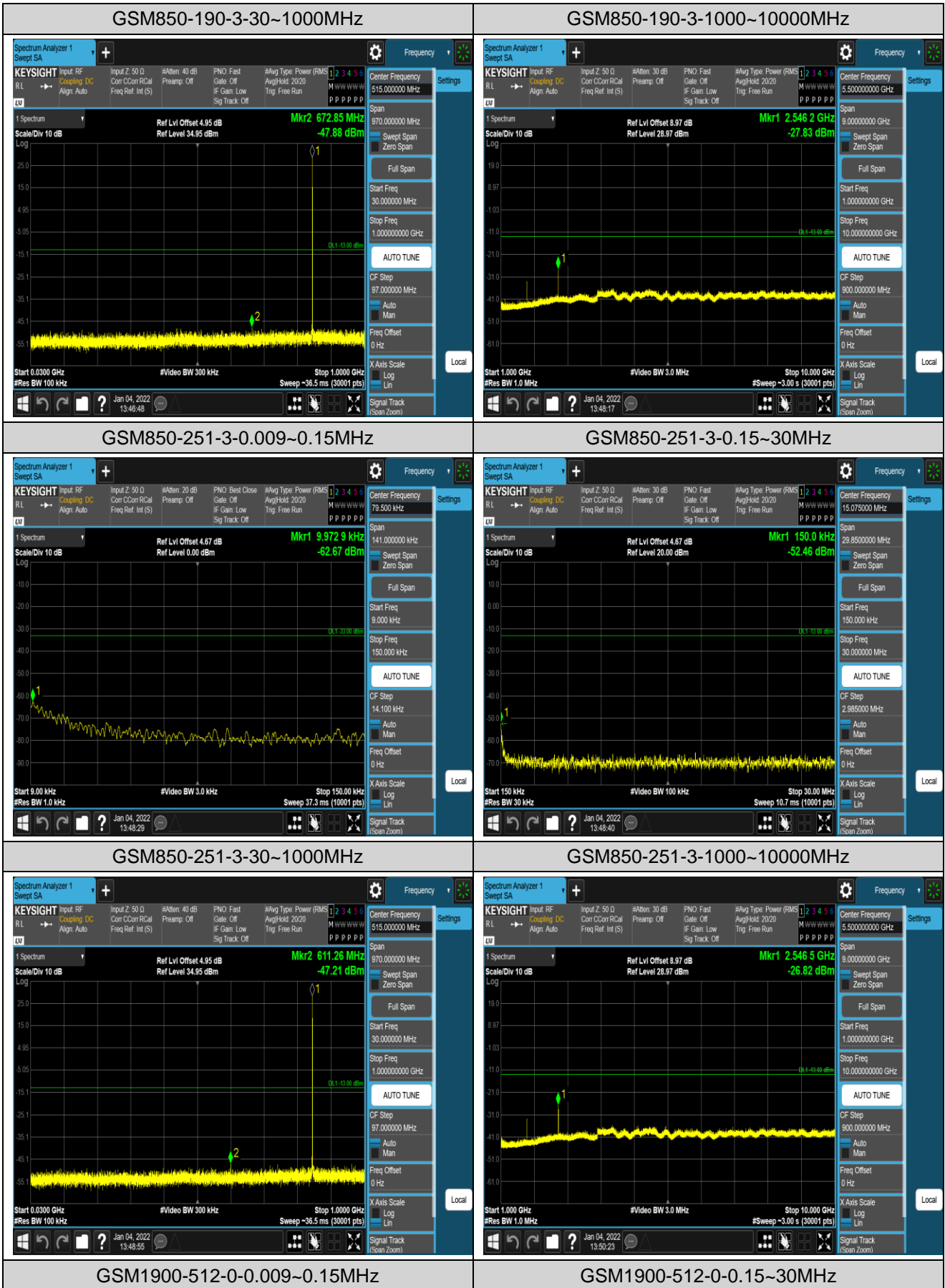
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	3	0.009~0.15MHz	0.01	-62.53	-33	PASS
GSM850	128	3	0.15~30MHz	0.15	-54.31	-13	PASS
GSM850	128	3	30~1000MHz	951.02	-47.55	-13	PASS
GSM850	128	3	1000~10000MHz	2546.2	-27.23	-13	PASS
GSM850	190	3	0.009~0.15MHz	0.01	-62.4	-33	PASS
GSM850	190	3	0.15~30MHz	0.15	-54.44	-13	PASS
GSM850	190	3	30~1000MHz	672.85	-47.88	-13	PASS
GSM850	190	3	1000~10000MHz	2546.2	-27.83	-13	PASS
GSM850	251	3	0.009~0.15MHz	0.01	-62.67	-33	PASS
GSM850	251	3	0.15~30MHz	0.15	-52.46	-13	PASS
GSM850	251	3	30~1000MHz	611.26	-47.21	-13	PASS
GSM850	251	3	1000~10000MHz	2546.5	-26.82	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-69.63	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-51.64	-23	PASS
GSM1900	512	0	30~1000MHz	876.52	-47.29	-13	PASS
GSM1900	512	0	1000~18000MHz	17743.87	-35.62	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-70.22	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-52.78	-23	PASS
GSM1900	661	0	30~1000MHz	937.66	-48.19	-13	PASS
GSM1900	661	0	1000~18000MHz	14496.3	-35.8	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-68.56	-43	PASS
GSM1900	810	0	0.15~30MHz	0.19	-53.78	-23	PASS
GSM1900	810	0	30~1000MHz	908.04	-46.77	-13	PASS
GSM1900	810	0	1000~18000MHz	17391.97	-35.75	-13	PASS

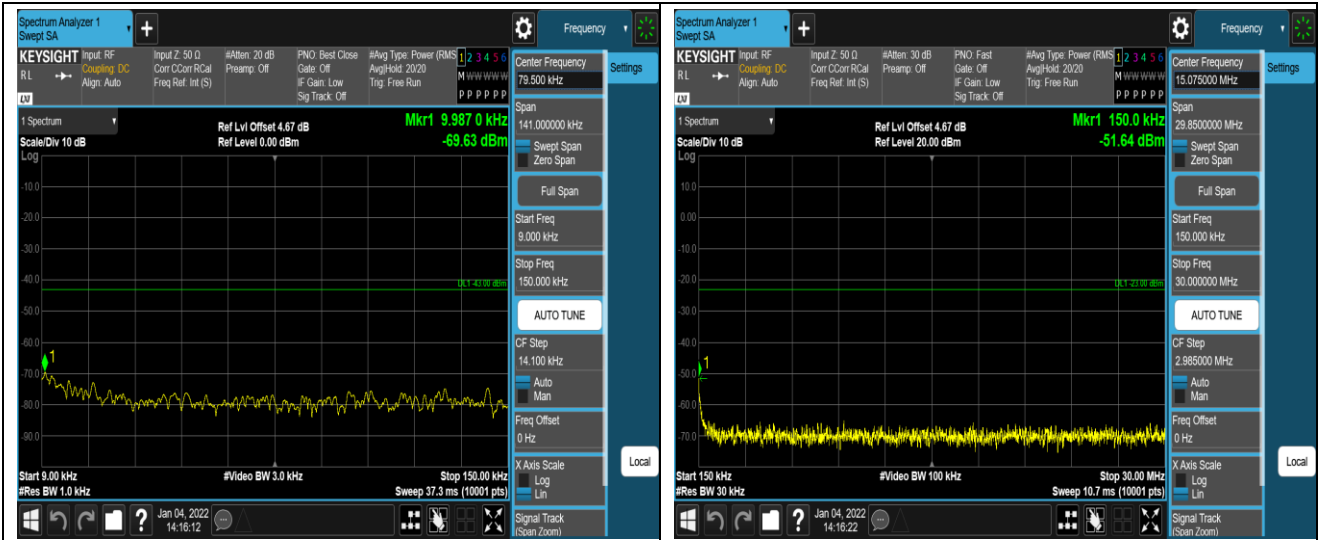
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.



Test Graphs

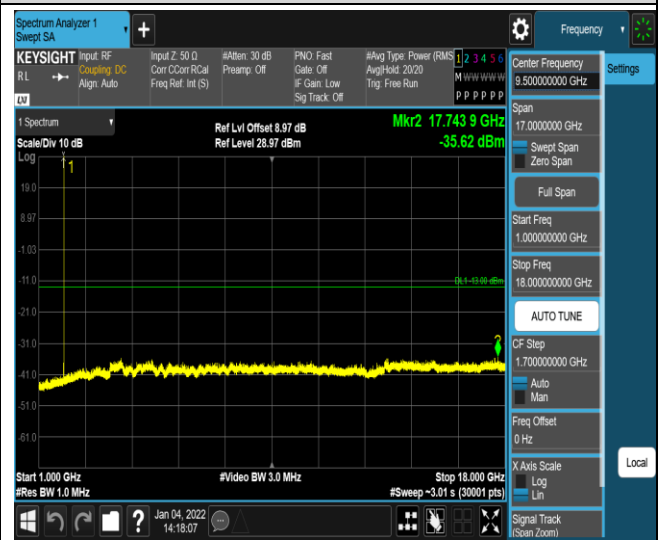






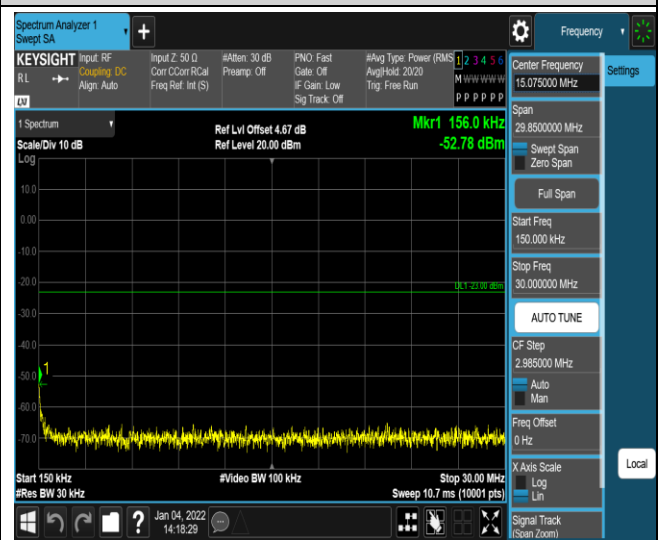
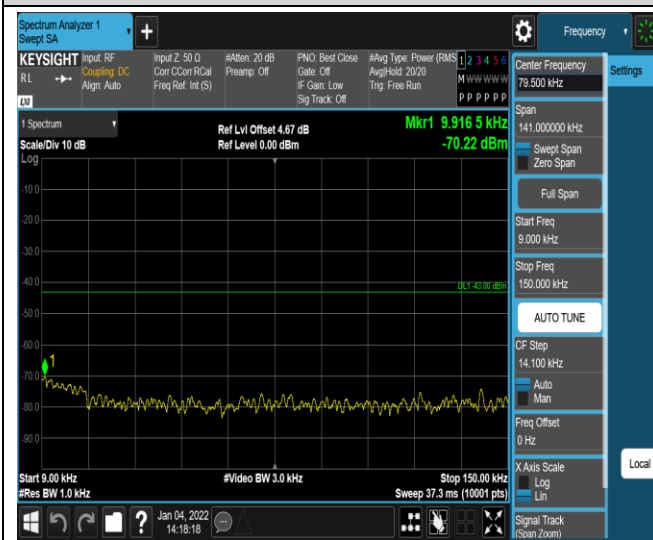
GSM1900-512-0-30~1000MHz

GSM1900-512-0-1000~18000MHz



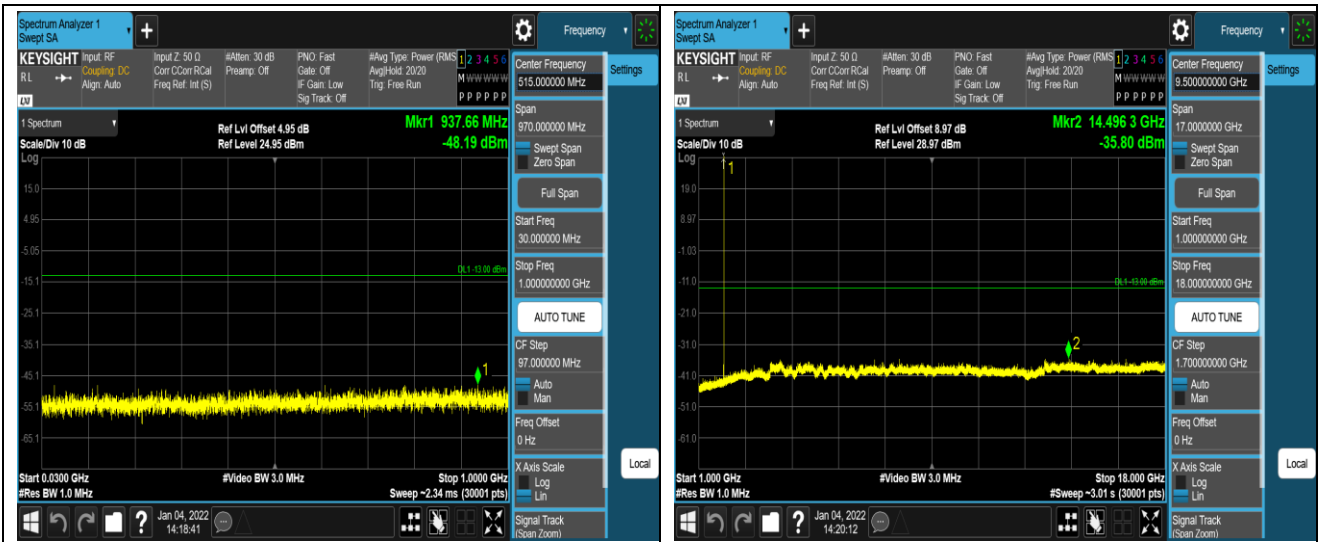
GSM1900-661-0-0.009~0.15MHz

GSM1900-661-0-0.15~30MHz



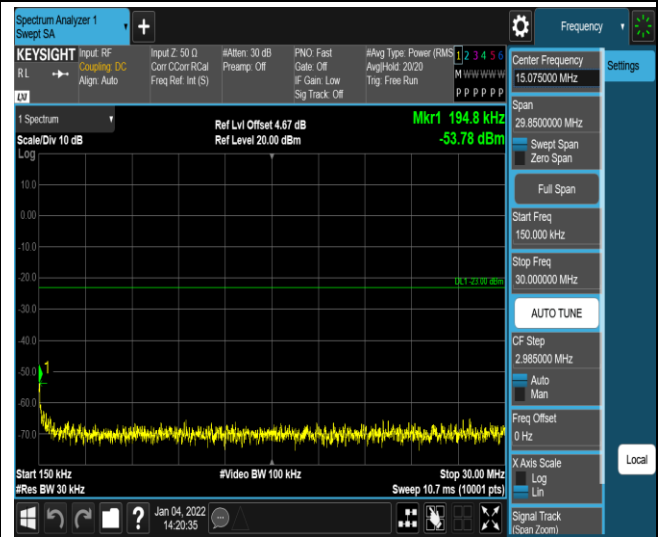
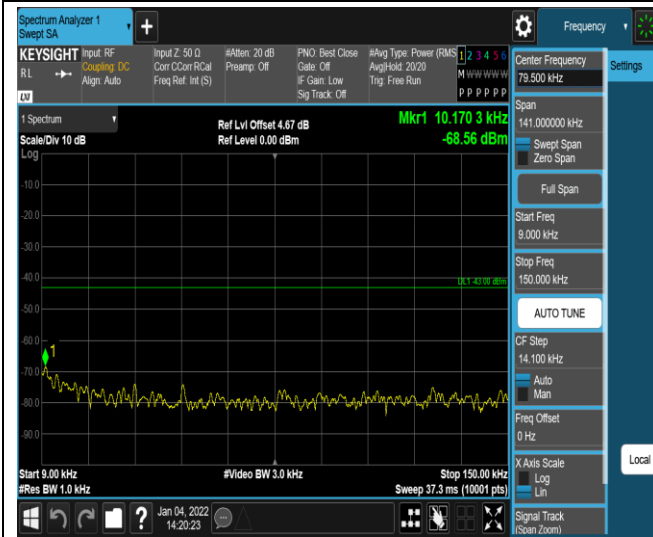
GSM1900-661-0-30~1000MHz

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		
7.60	-30	8.33	0.009957	±2.5	Pass
	-20	10.3	0.012312		
	-10	9.14	0.010925		
	0	9.43	0.011272		
	10	6.2	0.007411		
	20	8.14	0.00973		
	30	7.17	0.00857		
	40	8.3	0.009921		
	50	9.98	0.011929		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	6.46	6.04	0.00722	±2.5	Pass
	7.60	8.59	0.010268		
	8.74	6.52	0.007793		
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		
7.60	-30	21.79	0.01159	Within authorized band for PCS 1900	Pass
	-20	21.7	0.011543		
	-10	18.73	0.009963		
	0	25.15	0.013378		
	10	15.63	0.008314		
	20	23.96	0.012745		
	30	21.08	0.011213		
	40	16.69	0.008878		
	50	20.53	0.01092		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	6.46	21.41	0.011388	Within authorized band for PCS 1900	Pass
	7.60	26.15	0.01391		
	8.74	18.31	0.009739		
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

