

## Appendix A: Conducted Power Output Data

### Test Result

Band	Channel	Up Slot Num	Power(dBm)
GPRS850	128	1	33.86
GPRS850	190	1	34.27
GPRS850	251	1	34.06
GPRS850	128	2	31.24
GPRS850	190	2	31.49
GPRS850	251	2	31.75
GPRS850	128	3	29.31
GPRS850	190	3	29.64
GPRS850	251	3	29.61
GPRS850	128	4	27.90
GPRS850	190	4	28.22
GPRS850	251	4	28.24
GPRS1900	512	1	30.54
GPRS1900	661	1	30.75
GPRS1900	810	1	30.74
GPRS1900	512	2	28.11
GPRS1900	661	2	28.13
GPRS1900	810	2	28.10
GPRS1900	512	3	26.40
GPRS1900	661	3	26.38
GPRS1900	810	3	26.50
GPRS1900	512	4	25.13
GPRS1900	661	4	25.22
GPRS1900	810	4	25.23

Band	Channel	Up Slot Num	Power(dBm)
EGPRS850	128	1	28.54
EGPRS850	190	1	28.83
EGPRS850	251	1	28.95
EGPRS850	128	2	26.05
EGPRS850	190	2	26.25
EGPRS850	251	2	26.37
EGPRS850	128	3	24.13
EGPRS850	190	3	24.32
EGPRS850	251	3	24.52
EGPRS850	128	4	22.82
EGPRS850	190	4	23.03

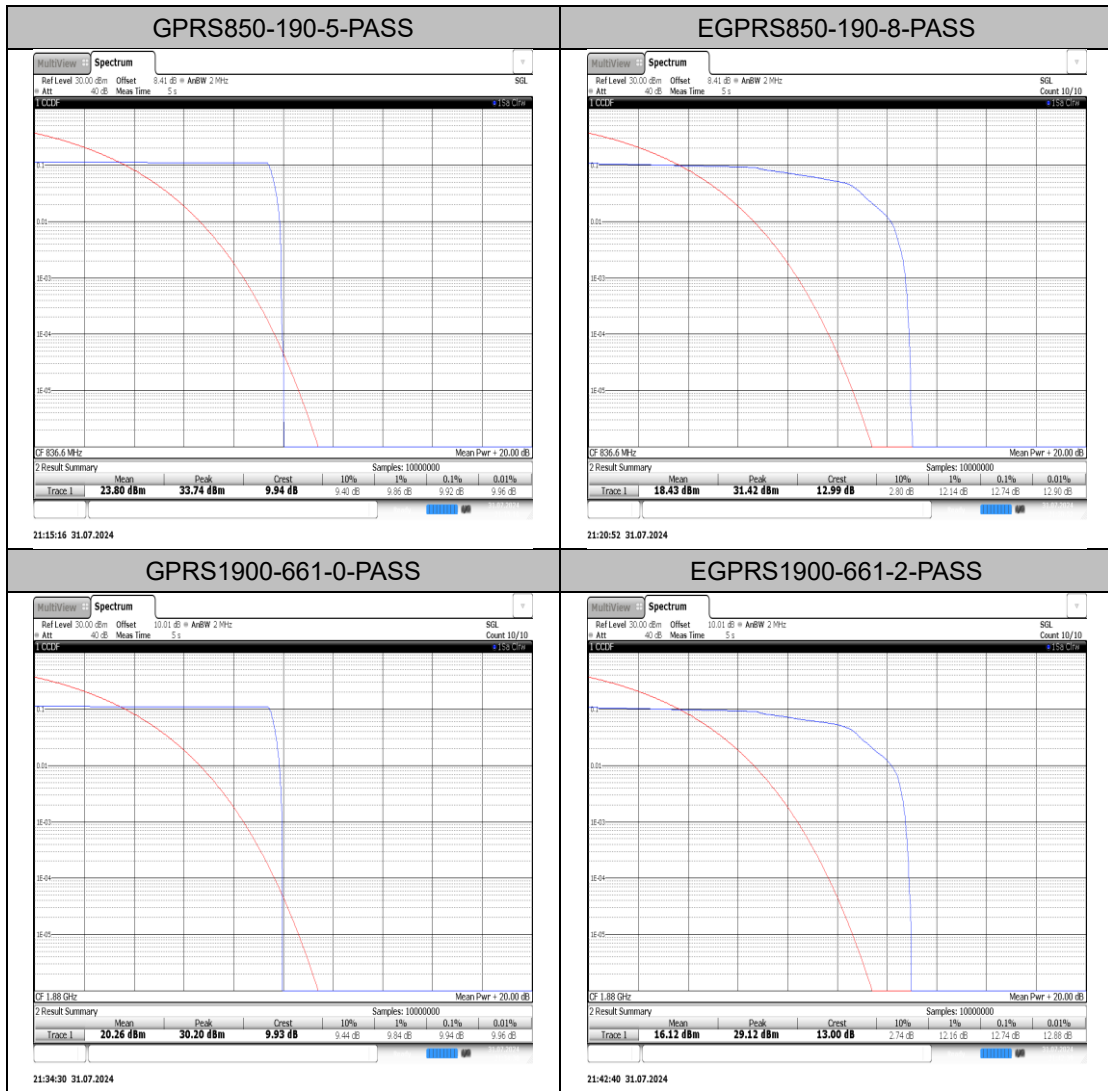
EGPRS850	251	4	23.18
EGPRS1900	512	1	26.52
EGPRS1900	661	1	26.56
EGPRS1900	810	1	26.45
EGPRS1900	512	2	23.87
EGPRS1900	661	2	23.95
EGPRS1900	810	2	23.83
EGPRS1900	512	3	22.45
EGPRS1900	661	3	22.45
EGPRS1900	810	3	22.34
EGPRS1900	512	4	21.26
EGPRS1900	661	4	21.39
EGPRS1900	810	4	21.37

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

### Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GPRS850	190	9.92	13	PASS
EGPRS850	190	12.74	13	PASS
GPRS1900	661	9.94	13	PASS
EGPRS1900	661	12.74	13	PASS

# Test Graphs

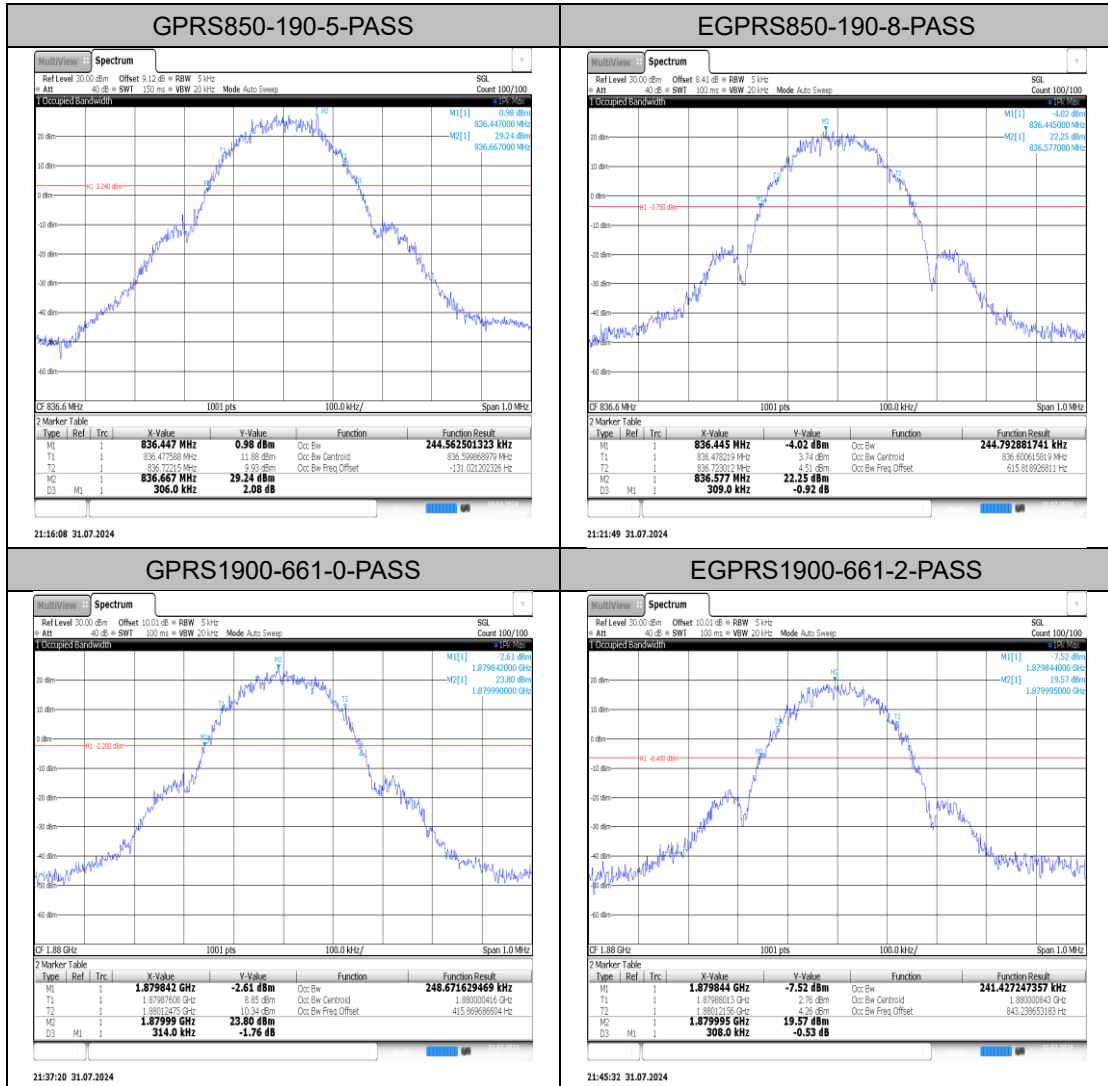


## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	190	0.245	0.31	---	PASS
EGPRS850	190	0.245	0.31	---	PASS
GPRS1900	661	0.249	0.31	---	PASS
EGPRS1900	661	0.241	0.31	---	PASS

# Test Graphs

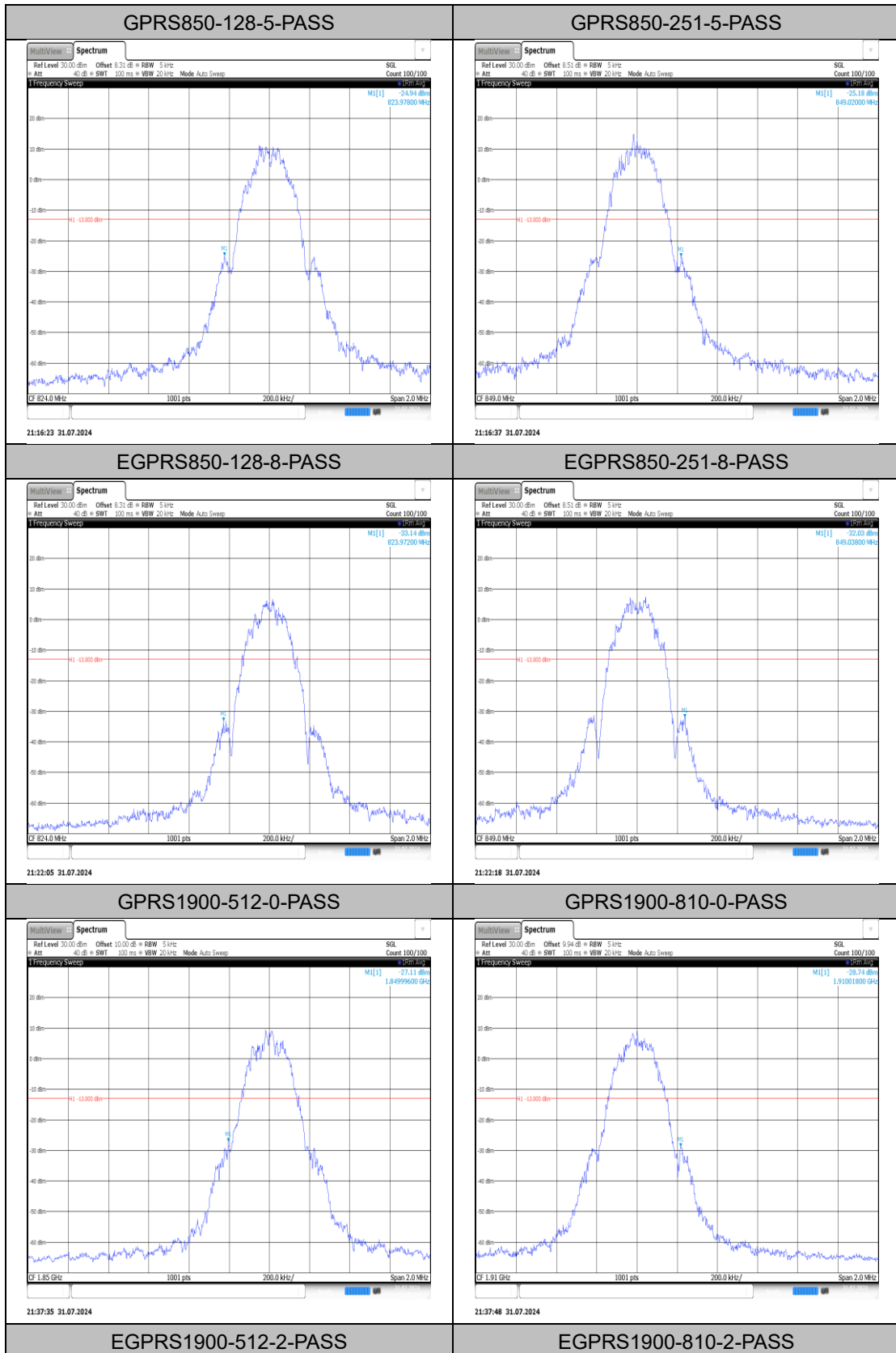


## Appendix D: Band Edge

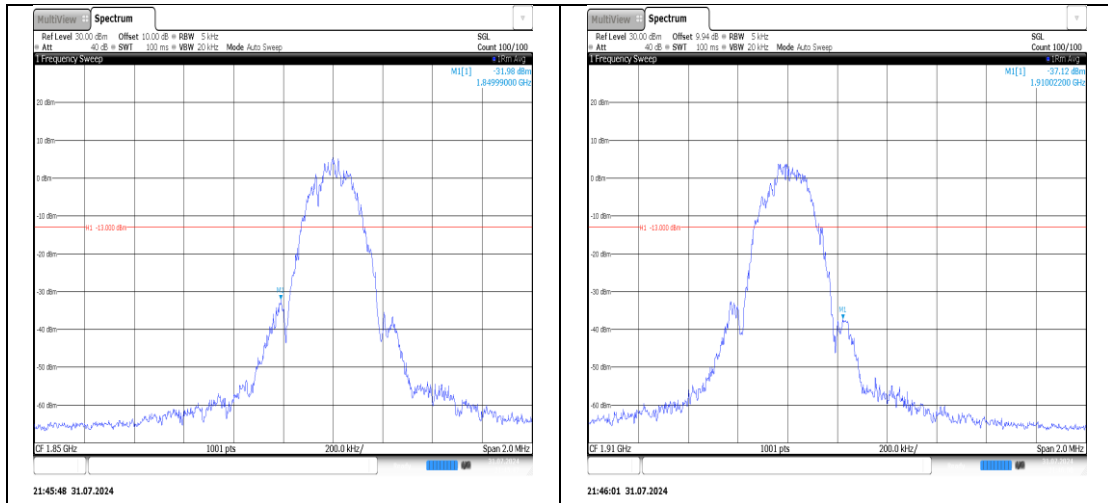
### Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS850	128	823.98	-24.94	-13	PASS
GPRS850	251	849.02	-25.18	-13	PASS
EGPRS850	128	823.97	-33.14	-13	PASS
EGPRS850	251	849.04	-32.03	-13	PASS
GPRS1900	512	1850.00	-27.11	-13	PASS
GPRS1900	810	1910.02	-28.74	-13	PASS
EGPRS1900	512	1849.99	-31.98	-13	PASS
EGPRS1900	810	1910.02	-37.12	-13	PASS

# Test Graphs





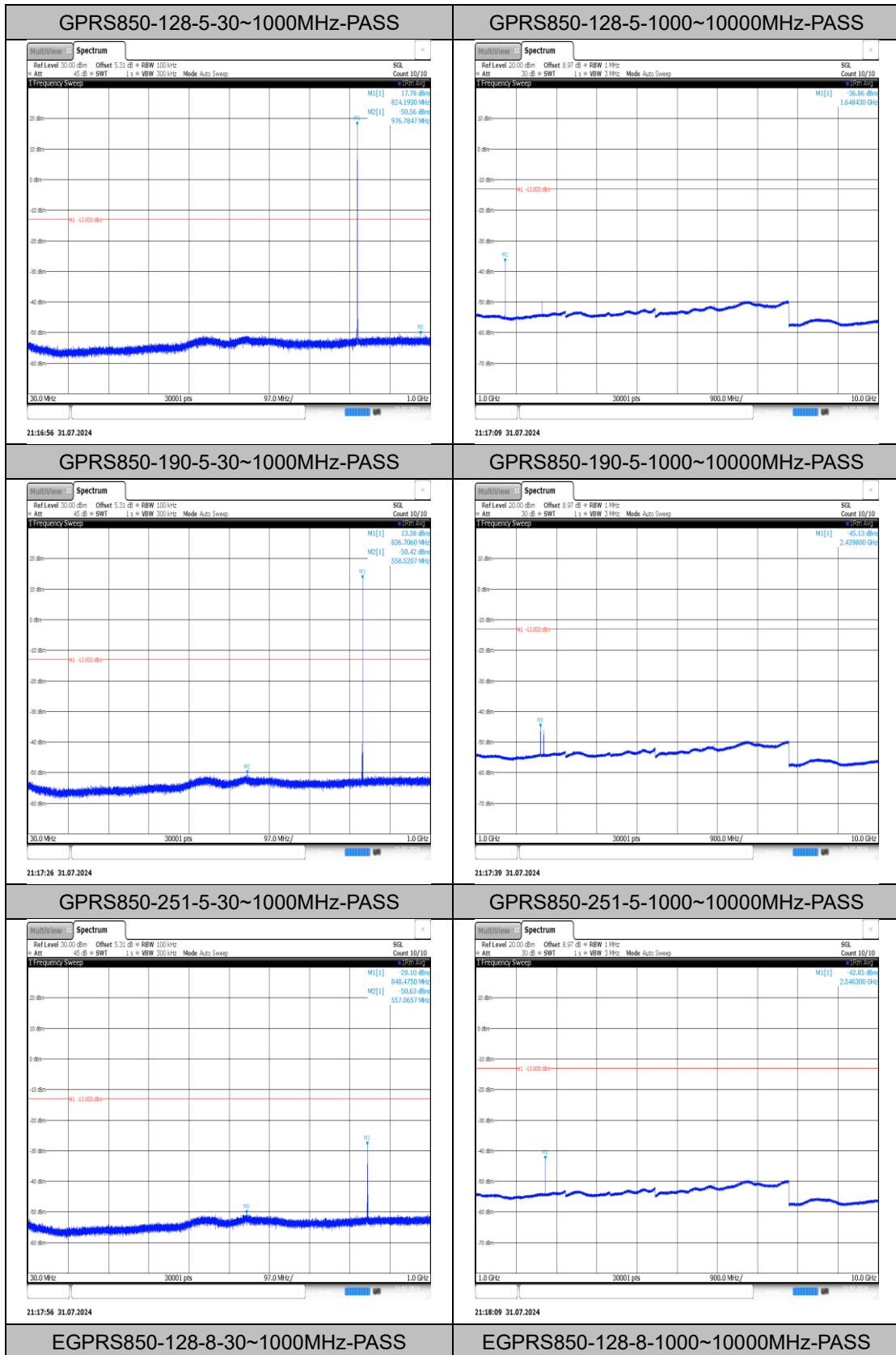


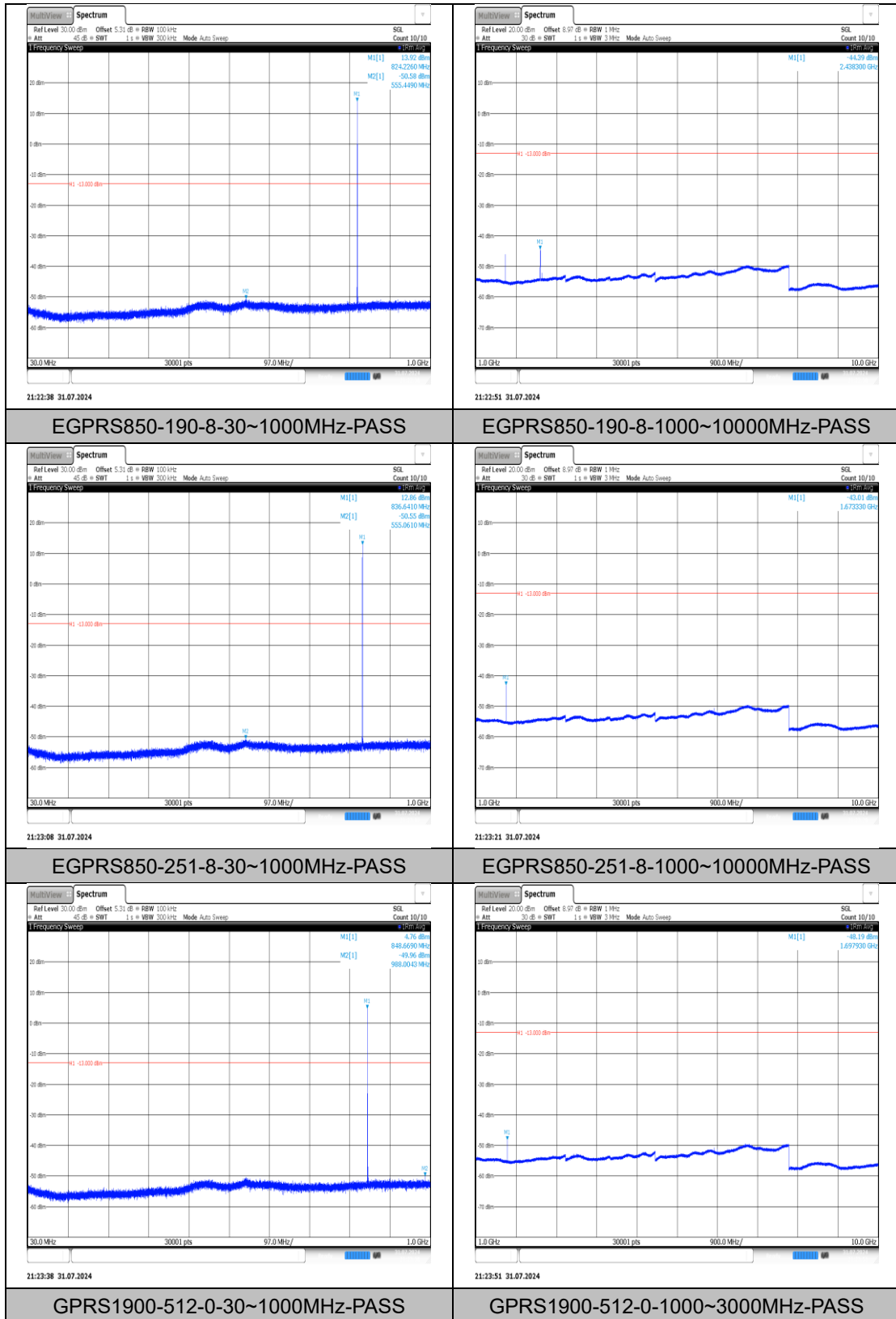
## Appendix E: Conducted Spurious Emission

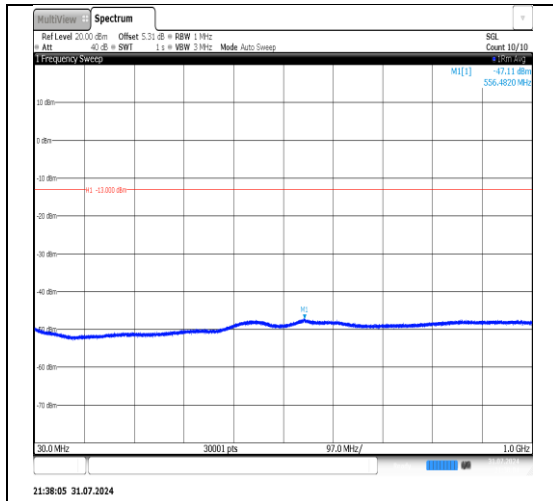
### Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS850	128	30~1000MHz	976.78	-50.56	-13	PASS
GPRS850	128	1000~10000MHz	1648.43	-36.86	-13	PASS
GPRS850	190	30~1000MHz	558.52	-50.42	-13	PASS
GPRS850	190	1000~10000MHz	2439.8	-45.13	-13	PASS
GPRS850	251	30~1000MHz	557.07	-50.63	-13	PASS
GPRS850	251	1000~10000MHz	2546.3	-42.85	-13	PASS
EGPRS850	128	30~1000MHz	555.45	-50.58	-13	PASS
EGPRS850	128	1000~10000MHz	2438.3	-44.39	-13	PASS
EGPRS850	190	30~1000MHz	555.06	-50.55	-13	PASS
EGPRS850	190	1000~10000MHz	1673.33	-43.01	-13	PASS
EGPRS850	251	30~1000MHz	988	-49.96	-13	PASS
EGPRS850	251	1000~10000MHz	1697.93	-48.19	-13	PASS
GPRS1900	512	30~1000MHz	556.48	-47.11	-13	PASS
GPRS1900	512	1000~3000MHz	2992.27	-37.81	-13	PASS
GPRS1900	512	3000~18000MHz	3700.23	-45.43	-13	PASS
GPRS1900	661	30~1000MHz	555.03	-47.11	-13	PASS
GPRS1900	661	1000~3000MHz	2982.53	-37.73	-13	PASS
GPRS1900	661	3000~18000MHz	3760.22	-45.83	-13	PASS
GPRS1900	810	30~1000MHz	555.74	-47.18	-13	PASS
GPRS1900	810	1000~3000MHz	2997.2	-37.8	-13	PASS
GPRS1900	810	3000~18000MHz	7953.08	-46.97	-13	PASS
EGPRS1900	512	30~1000MHz	555.87	-47	-13	PASS
EGPRS1900	512	1000~3000MHz	2999.27	-37.81	-13	PASS
EGPRS1900	512	3000~18000MHz	7901.59	-47.08	-13	PASS
EGPRS1900	661	30~1000MHz	558.71	-47.08	-13	PASS
EGPRS1900	661	1000~3000MHz	2991.13	-37.73	-13	PASS
EGPRS1900	661	3000~18000MHz	7975.58	-47	-13	PASS
EGPRS1900	810	30~1000MHz	555.55	-46.98	-13	PASS
EGPRS1900	810	1000~3000MHz	2991.33	-37.73	-13	PASS
EGPRS1900	810	3000~18000MHz	7093.11	-47.14	-13	PASS

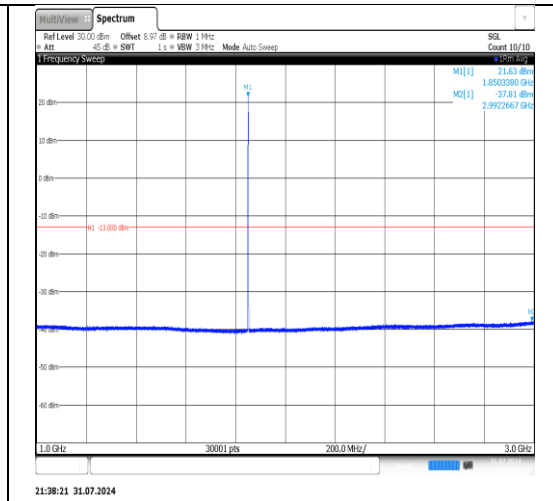
# Test Graphs



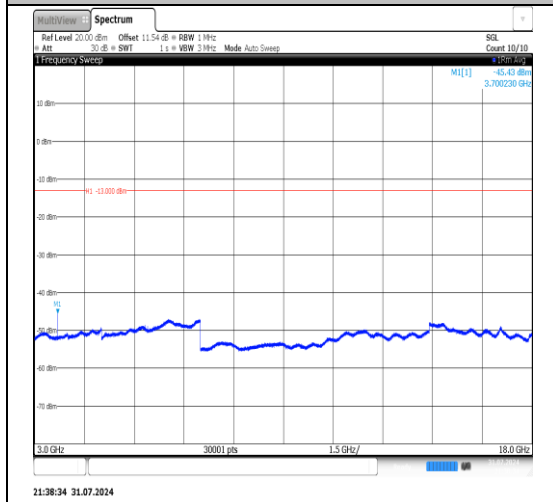




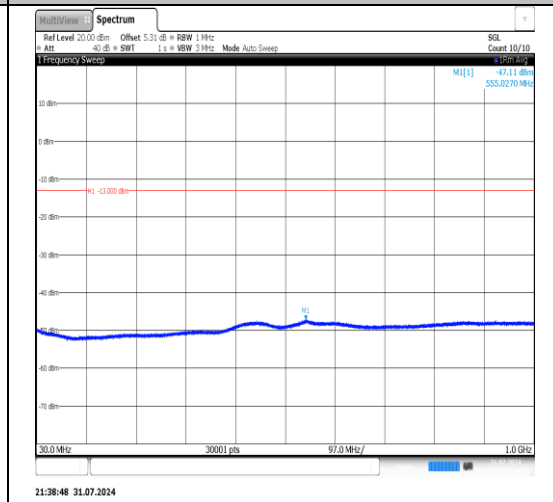
GPRS1900-512-0-3000~18000MHz-PASS



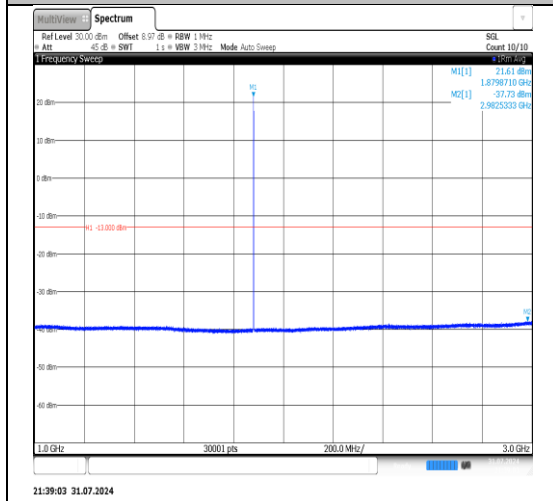
GPRS1900-661-0-30~1000MHz-PASS



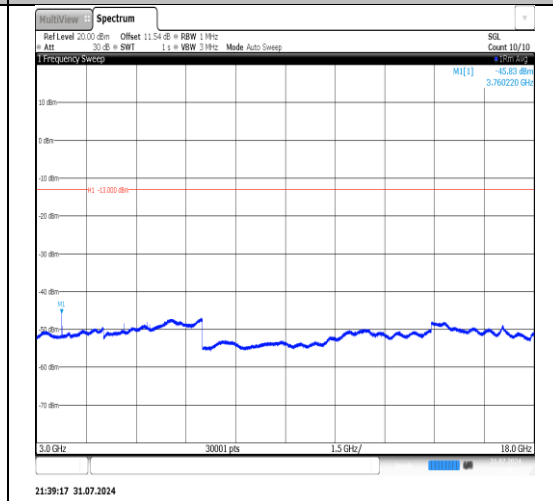
GPRS1900-661-0-1000~3000MHz-PASS



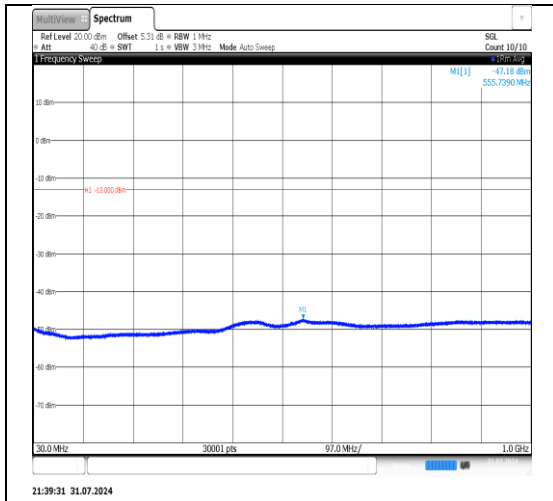
GPRS1900-661-0-3000~18000MHz-PASS



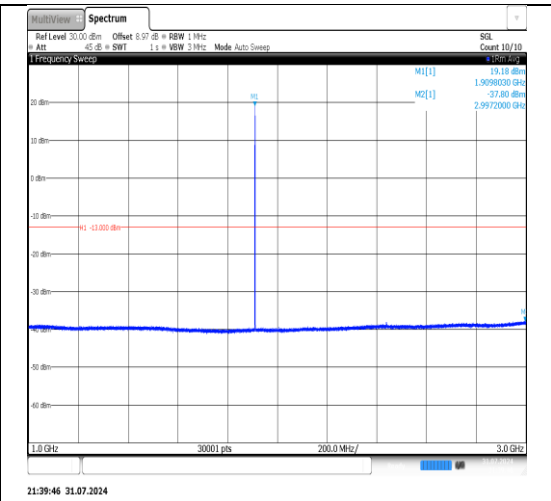
GPRS1900-810-0-30~1000MHz-PASS



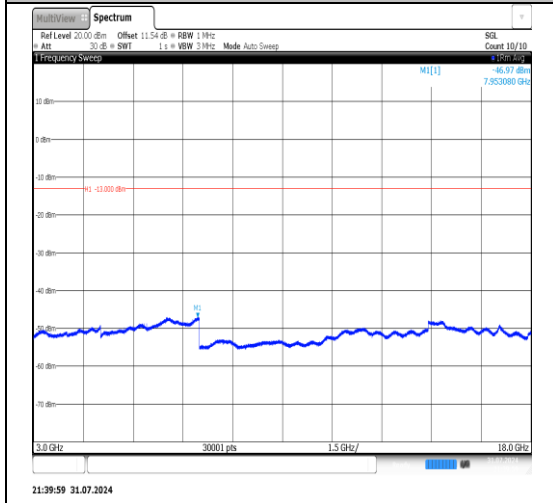
GPRS1900-810-0-1000~3000MHz-PASS



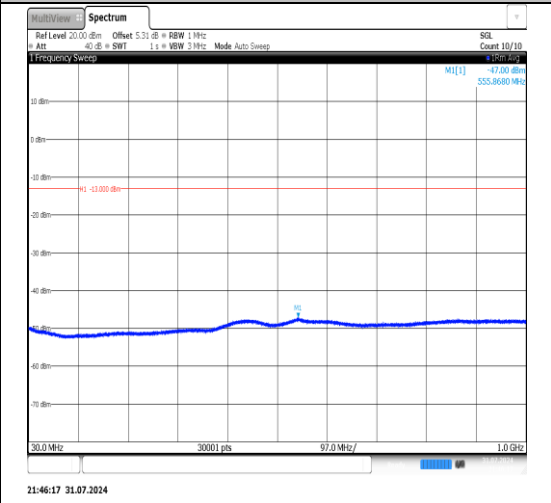
GPRS1900-810-0-3000~18000MHz-PASS



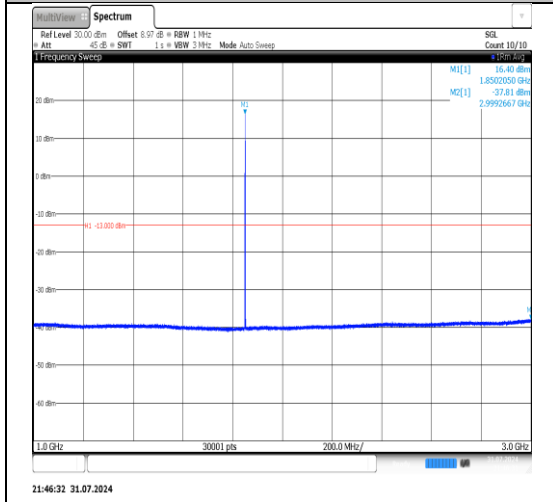
EGPRS1900-512-2-30~1000MHz-PASS



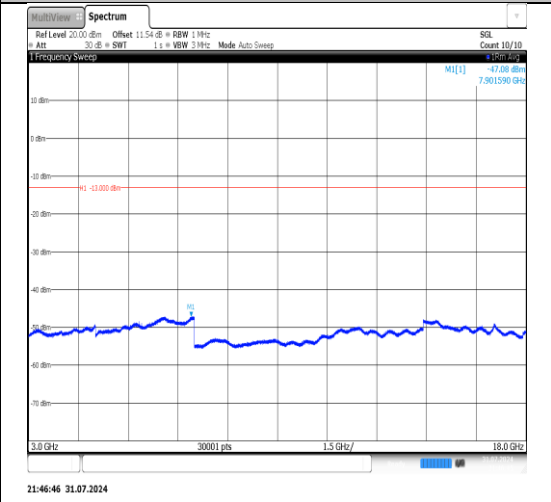
EGPRS1900-512-2-1000~3000MHz-PASS



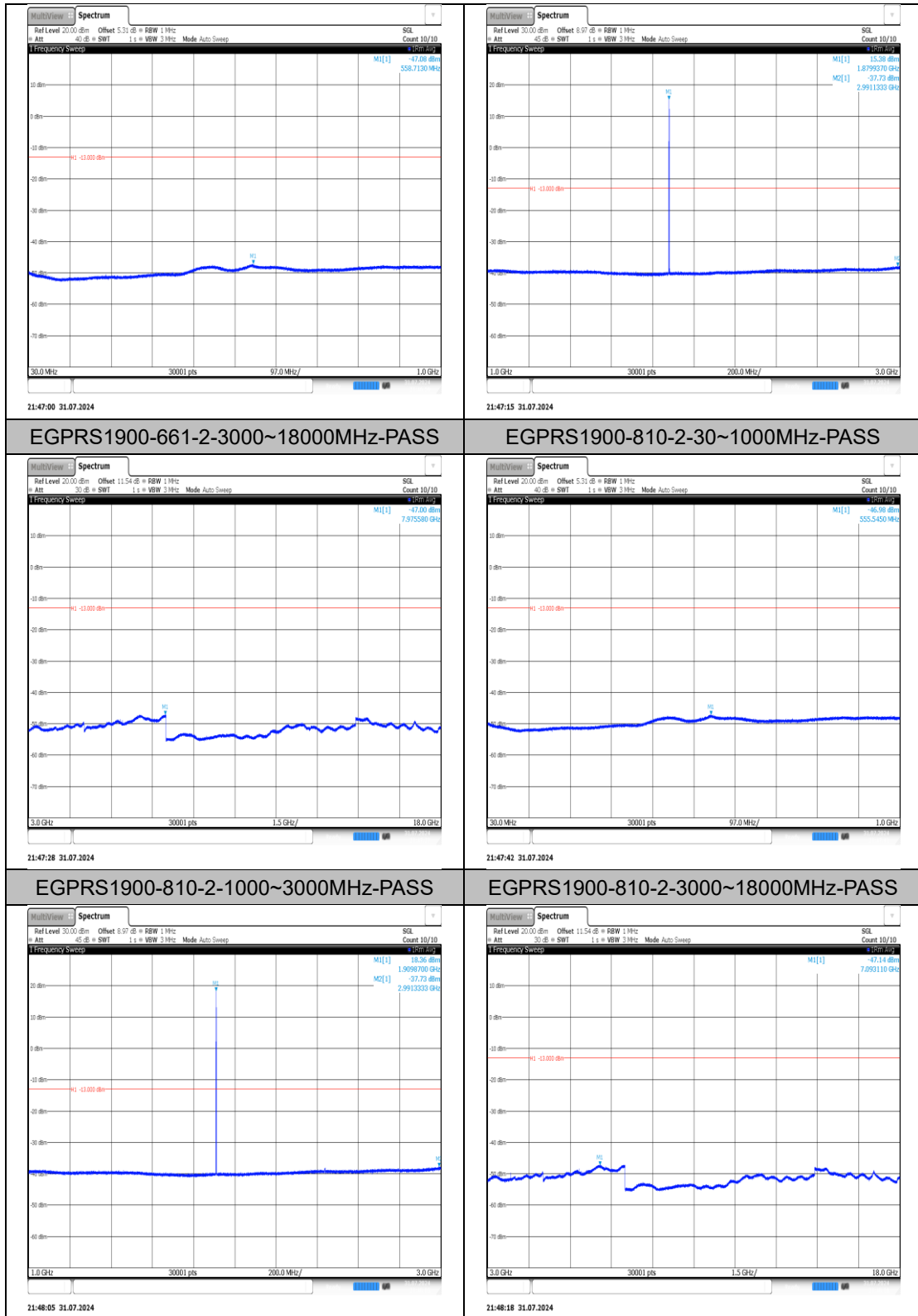
EGPRS1900-512-2-3000~18000MHz-PASS



EGPRS1900-661-2-30~1000MHz-PASS



EGPRS1900-661-2-1000~3000MHz-PASS



## Appendix F: Frequency Stability

### Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	190	VN	NT	19.40	0.023189	±2.5	PASS
GPRS850	190	VL	NT	19.47	0.023273	±2.5	PASS
GPRS850	190	VH	NT	19.98	0.023882	±2.5	PASS
EGPRS850	190	VN	NT	23.67	0.028293	±2.5	PASS
EGPRS850	190	VL	NT	24.34	0.029094	±2.5	PASS
EGPRS850	190	VH	NT	23.15	0.027672	±2.5	PASS
GPRS1900	661	VN	NT	350.00	0.186170	±2.5	PASS
GPRS1900	661	VL	NT	-850.00	-0.452128	±2.5	PASS
GPRS1900	661	VH	NT	-850.00	-0.452128	±2.5	PASS
EGPRS1900	661	VN	NT	200.00	0.106383	±2.5	PASS
EGPRS1900	661	VL	NT	-50.00	-0.026596	±2.5	PASS
EGPRS1900	661	VH	NT	650.00	0.345745	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	190	NV	-30	21.99	0.026285	±2.5	PASS
GPRS850	190	NV	-20	20.86	0.024934	±2.5	PASS
GPRS850	190	NV	-10	20.50	0.024504	±2.5	PASS
GPRS850	190	NV	0	19.79	0.023655	±2.5	PASS
GPRS850	190	NV	10	21.15	0.025281	±2.5	PASS
GPRS850	190	NV	20	20.15	0.024086	±2.5	PASS
GPRS850	190	NV	30	21.18	0.025317	±2.5	PASS
GPRS850	190	NV	40	20.79	0.024851	±2.5	PASS
GPRS850	190	NV	50	19.24	0.022998	±2.5	PASS
EGPRS850	190	NV	-30	21.05	0.025161	±2.5	PASS
EGPRS850	190	NV	-20	23.54	0.028138	±2.5	PASS
EGPRS850	190	NV	-10	23.54	0.028138	±2.5	PASS
EGPRS850	190	NV	0	22.63	0.027050	±2.5	PASS
EGPRS850	190	NV	10	22.92	0.027397	±2.5	PASS
EGPRS850	190	NV	20	20.89	0.024970	±2.5	PASS
EGPRS850	190	NV	30	22.50	0.026895	±2.5	PASS
EGPRS850	190	NV	40	23.89	0.028556	±2.5	PASS
EGPRS850	190	NV	50	20.76	0.024815	±2.5	PASS



GPRS1900	661	NV	-30	-1150.00	-0.611702	±2.5	PASS
GPRS1900	661	NV	-20	500.00	0.265957	±2.5	PASS
GPRS1900	661	NV	-10	650.00	0.345745	±2.5	PASS
GPRS1900	661	NV	0	-600.00	-0.319149	±2.5	PASS
GPRS1900	661	NV	10	1100.00	0.585106	±2.5	PASS
GPRS1900	661	NV	20	650.00	0.345745	±2.5	PASS
GPRS1900	661	NV	30	1000.00	0.531915	±2.5	PASS
GPRS1900	661	NV	40	150.00	0.079787	±2.5	PASS
GPRS1900	661	NV	50	-350.00	-0.186170	±2.5	PASS
EGPRS1900	661	NV	-30	50.00	0.026596	±2.5	PASS
EGPRS1900	661	NV	-20	-750.00	-0.398936	±2.5	PASS
EGPRS1900	661	NV	-10	400.00	0.212766	±2.5	PASS
EGPRS1900	661	NV	0	750.00	0.398936	±2.5	PASS
EGPRS1900	661	NV	10	700.00	0.372340	±2.5	PASS
EGPRS1900	661	NV	20	1350.00	0.718085	±2.5	PASS
EGPRS1900	661	NV	30	950.00	0.505319	±2.5	PASS
EGPRS1900	661	NV	40	-750.00	-0.398936	±2.5	PASS
EGPRS1900	661	NV	50	650.00	0.345745	±2.5	PASS