Appendix for GSM850&GSM1900

Product Name: Smart Phone

Model No: Nova

Appendix A: Average Power Output Data

Test Result

Normal:

Band	Channel	ERP/EIRP(dBm)	Limit(dBm)	Verdict
GSM850	128	33.04	38.45	PASS
GSM850	190	32.97	38.45	PASS
GSM850	251	32.84	38.45	PASS
GSM1900	512	29.37	33.00	PASS
GSM1900	661	29.32	33.00	PASS
GSM1900	810	29.54	33.00	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	33.06	38.45	PASS
GPRS850	128	2	32.12	38.45	PASS
GPRS850	128	3	30.18	38.45	PASS
GPRS850	128	4	28.88	38.45	PASS
GPRS850	190	1	32.95	38.45	PASS
GPRS850	190	2	32.00	38.45	PASS
GPRS850	190	3	30.04	38.45	PASS
GPRS850	190	4	28.77	38.45	PASS
GPRS850	251	1	32.80	38.45	PASS
GPRS850	251	2	31.84	38.45	PASS
GPRS850	251	3	29.87	38.45	PASS
GPRS850	251	4	28.58	38.45	PASS
GPRS1900	512	1	29.40	33.00	PASS
GPRS1900	512	2	28.42	33.00	PASS
GPRS1900	512	3	26.41	33.00	PASS
GPRS1900	512	4	25.28	33.00	PASS
GPRS1900	661	1	29.32	33.00	PASS
GPRS1900	661	2	28.34	33.00	PASS
GPRS1900	661	3	26.34	33.00	PASS
GPRS1900	661	4	25.16	33.00	PASS

GPRS1900	810	1	29.52	33.00	PASS
GPRS1900	810	2	28.58	33.00	PASS
GPRS1900	810	3	26.53	33.00	PASS
GPRS1900	810	4	25.36	33.00	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.80	38.45	PASS
EGPRS850	128	2	26.67	38.45	PASS
EGPRS850	128	3	24.60	38.45	PASS
EGPRS850	128	4	23.35	38.45	PASS
EGPRS850	190	1	27.87	38.45	PASS
EGPRS850	190	2	26.73	38.45	PASS
EGPRS850	190	3	24.65	38.45	PASS
EGPRS850	190	4	23.39	38.45	PASS
EGPRS850	251	1	27.81	38.45	PASS
EGPRS850	251	2	26.67	38.45	PASS
EGPRS850	251	3	24.69	38.45	PASS
EGPRS850	251	4	23.43	38.45	PASS
EGPRS1900	512	1	26.31	33.00	PASS
EGPRS1900	512	2	25.14	33.00	PASS
EGPRS1900	512	3	23.16	33.00	PASS
EGPRS1900	512	4	21.99	33.00	PASS

EGPRS1900	661	1	26.27	33.00	PASS
EGPRS1900	661	2	25.16	33.00	PASS
EGPRS1900	661	3	23.18	33.00	PASS
EGPRS1900	661	4	22.03	33.00	PASS
EGPRS1900	810	1	26.33	33.00	PASS
EGPRS1900	810	2	25.25	33.00	PASS
EGPRS1900	810	3	23.26	33.00	PASS
EGPRS1900	810	4	22.09	33.00	PASS

Receiver ON：

Band	Channel	ERP/EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	23.60	33.00	PASS
GSM1900	661	23.31	33.00	PASS
GSM1900	810	23.65	33.00	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS1900	512	1	23.64	33.00	PASS
GPRS1900	512	2	20.62	33.00	PASS
GPRS1900	512	3	18.79	33.00	PASS
GPRS1900	512	4	17.42	33.00	PASS
GPRS1900	661	1	23.36	33.00	PASS
GPRS1900	661	2	20.37	33.00	PASS
GPRS1900	661	3	18.54	33.00	PASS
GPRS1900	661	4	17.18	33.00	PASS
GPRS1900	810	1	23.69	33.00	PASS

GPRS1900	810	2	20.63	33.00	PASS
GPRS1900	810	3	18.74	33.00	PASS
GPRS1900	810	4	17.39	33.00	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	20.66	33.00	PASS
EGPRS1900	512	2	17.61	33.00	PASS
EGPRS1900	512	3	15.64	33.00	PASS
EGPRS1900	512	4	14.14	33.00	PASS
EGPRS1900	661	1	20.60	33.00	PASS
EGPRS1900	661	2	17.46	33.00	PASS
EGPRS1900	661	3	15.54	33.00	PASS
EGPRS1900	661	4	13.99	33.00	PASS
EGPRS1900	810	1	20.67	33.00	PASS
EGPRS1900	810	2	17.63	33.00	PASS
EGPRS1900	810	3	15.65	33.00	PASS
EGPRS1900	810	4	14.12	33.00	PASS

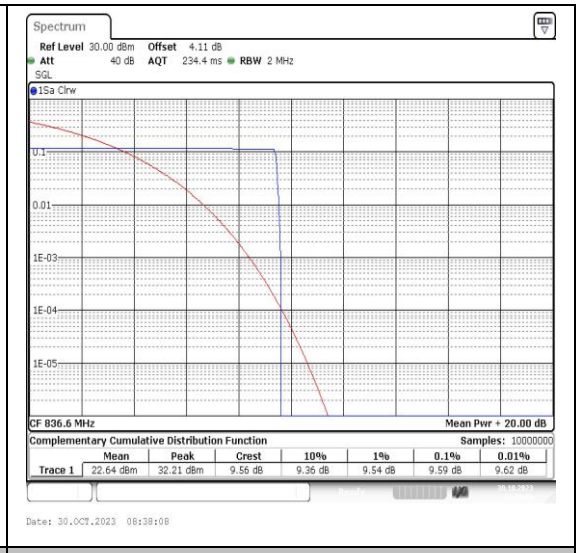
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

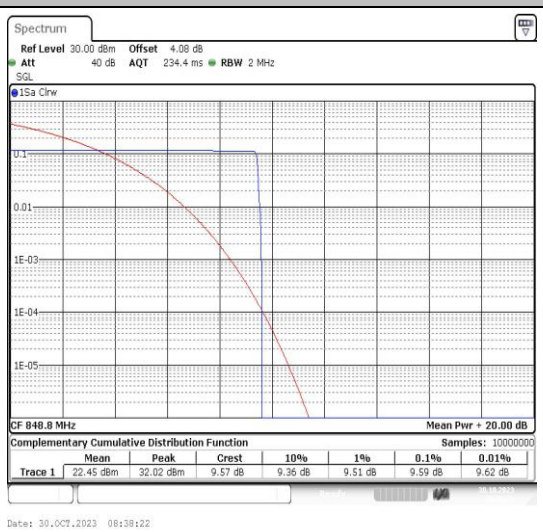
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.57	13	PASS
GSM850	190	9.59	13	PASS
GSM850	251	9.59	13	PASS
GPRS850	128	9.86	13	PASS
GPRS850	190	9.74	13	PASS
GPRS850	251	9.80	13	PASS
EGPRS850	128	12.55	13	PASS
EGPRS850	190	12.52	13	PASS
EGPRS850	251	12.52	13	PASS
GSM1900	512	8.49	13	PASS
GSM1900	661	8.49	13	PASS
GSM1900	810	8.46	13	PASS
GPRS1900	512	9.86	13	PASS
GPRS1900	661	9.94	13	PASS
GPRS1900	810	9.83	13	PASS
EGPRS1900	512	8.46	13	PASS
EGPRS1900	661	8.46	13	PASS
EGPRS1900	810	8.43	13	PASS

Test Graphs

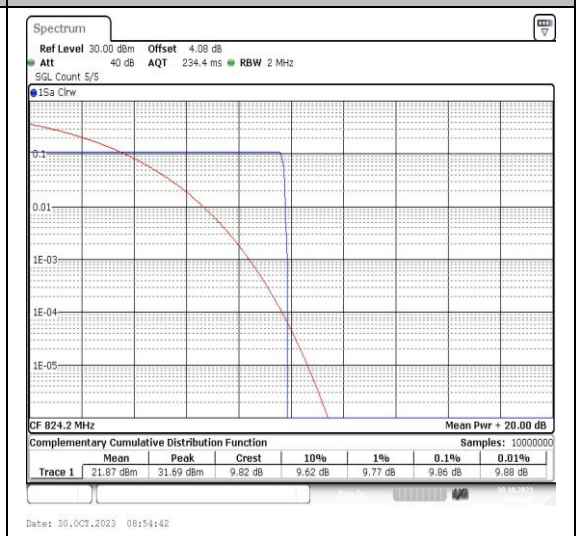
GSM850-128-5-PASS



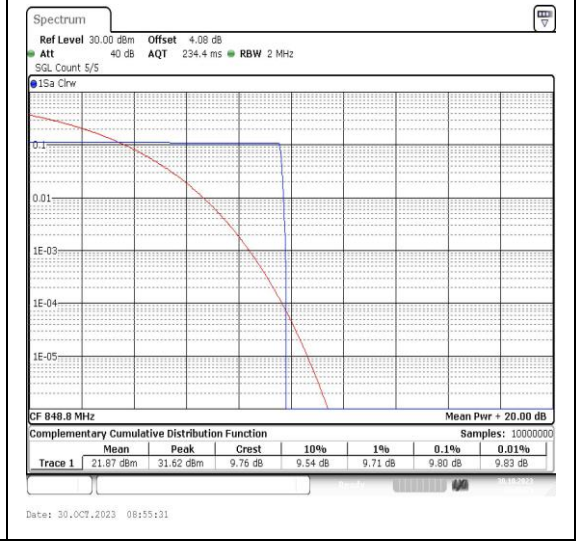
GSM850-190-5-PASS



GSM850-251-5-PASS



GPRS850-128-5-PASS



GPRS850-190-5-PASS

GPRS850-251-5-PASS

EGPRS850-128-8-PASS

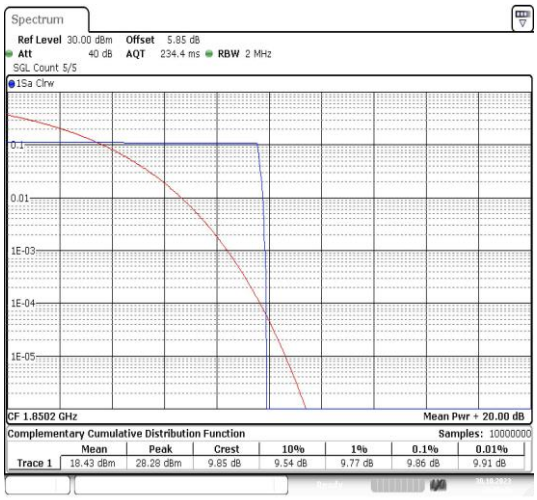
EGPRS850-190-8-PASS

EGPRS850-251-8-PASS

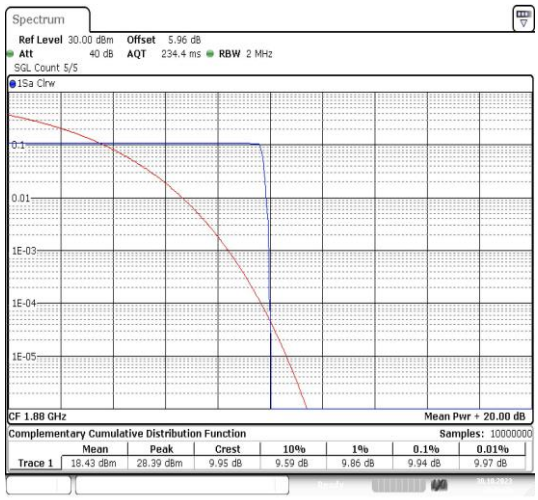
GSM1900-512-0-PASS

GSM1900-661-0-PASS

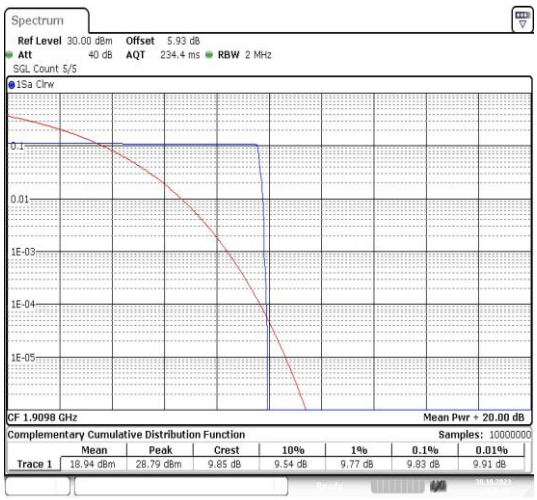
GSM1900-810-0-PASS



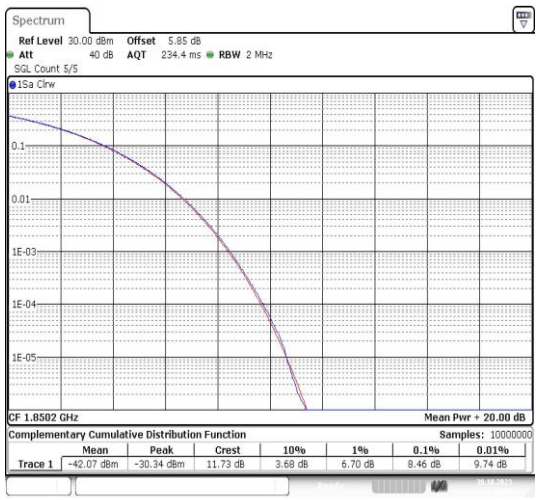
GPRS1900-512-0-PASS



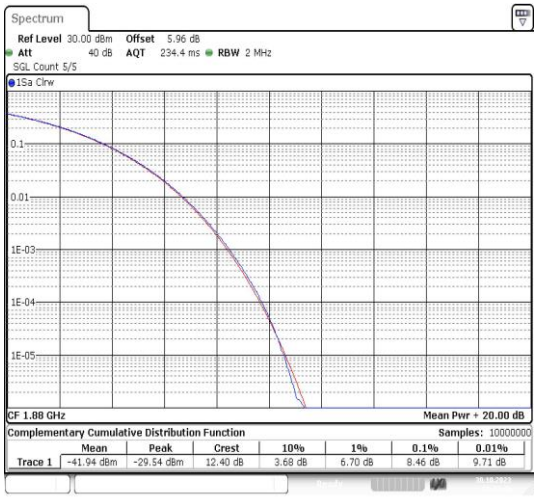
GPRS1900-661-0-PASS



GPRS1900-810-0-PASS



EGPRS1900-512-2-PASS



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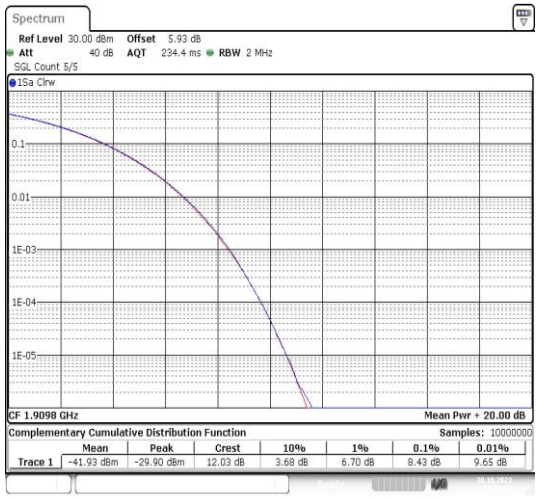


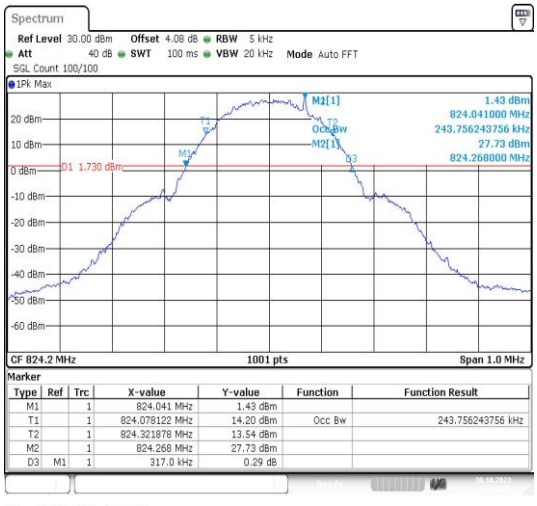
EGPRS1900-810-2-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

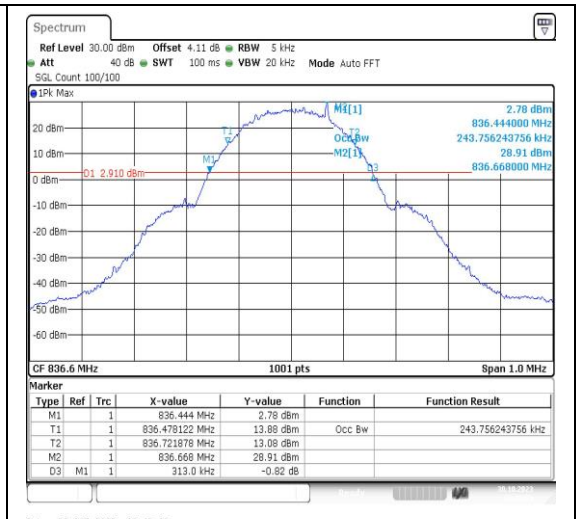
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.244	0.32	---	PASS
GSM850	190	0.244	0.31	---	PASS
GSM850	251	0.244	0.32	---	PASS
GPRS850	128	0.245	0.32	---	PASS
GPRS850	190	0.244	0.32	---	PASS
GPRS850	251	0.245	0.32	---	PASS
EGPRS850	128	0.251	0.32	---	PASS
EGPRS850	190	0.249	0.32	---	PASS
EGPRS850	251	0.251	0.32	---	PASS
GSM1900	512	0.242	0.31	---	PASS
GSM1900	661	0.242	0.31	---	PASS
GSM1900	810	0.244	0.32	---	PASS
GPRS1900	512	0.247	0.31	---	PASS
GPRS1900	661	0.244	0.32	---	PASS
GPRS1900	810	0.242	0.32	---	PASS
EGPRS1900	512	0.25	0.32	---	PASS
EGPRS1900	661	0.251	0.33	---	PASS
EGPRS1900	810	0.251	0.32	---	PASS

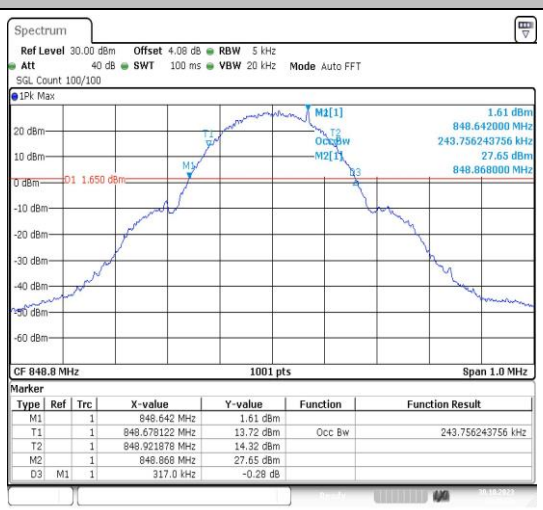
Test Graphs



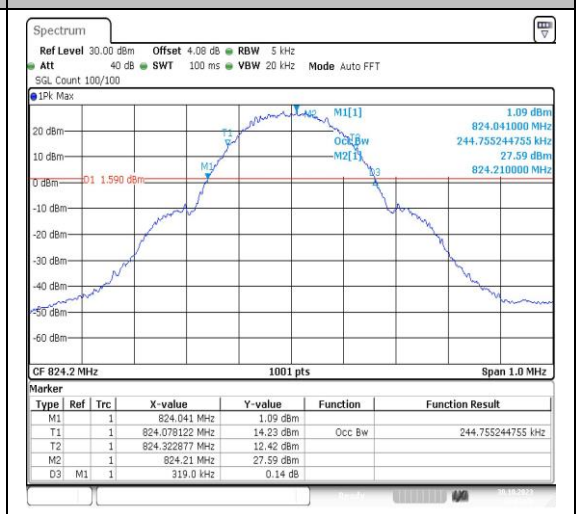
GSM850-128-5-PASS



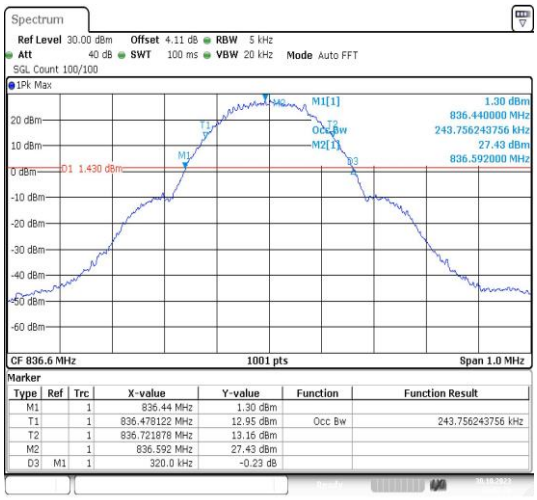
GSM850-190-5-PASS



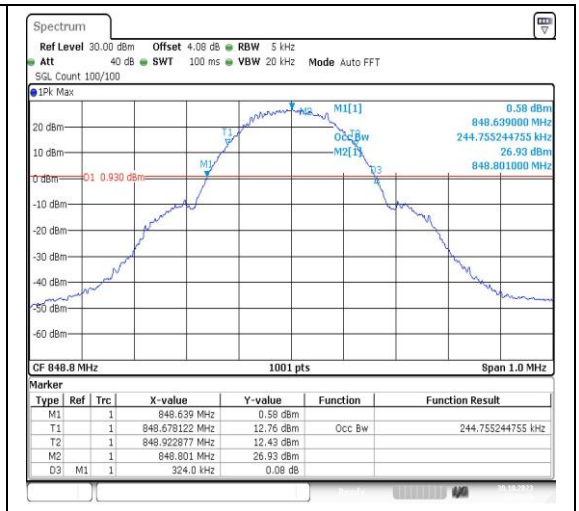
GSM850-251-5-PASS



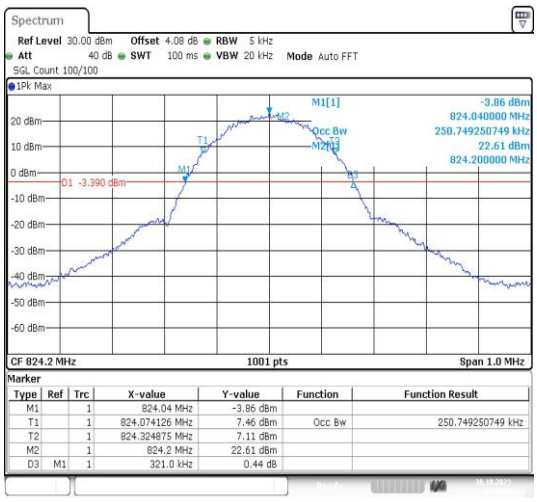
GPRS850-128-5-PASS



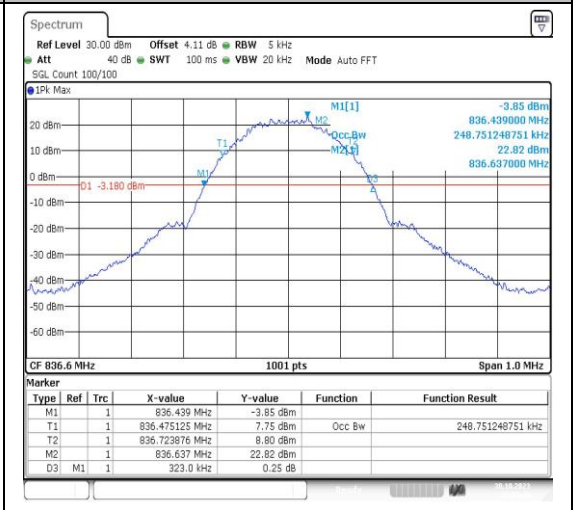
GPRS850-190-5-PASS



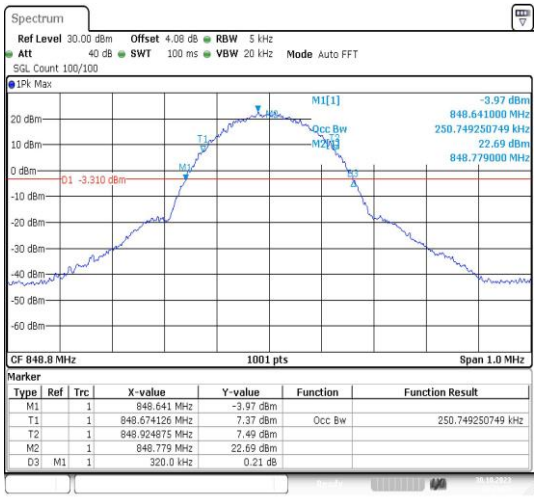
GPRS850-251-5-PASS



EGPRS850-128-8-PASS



EGPRS850-190-8-PASS



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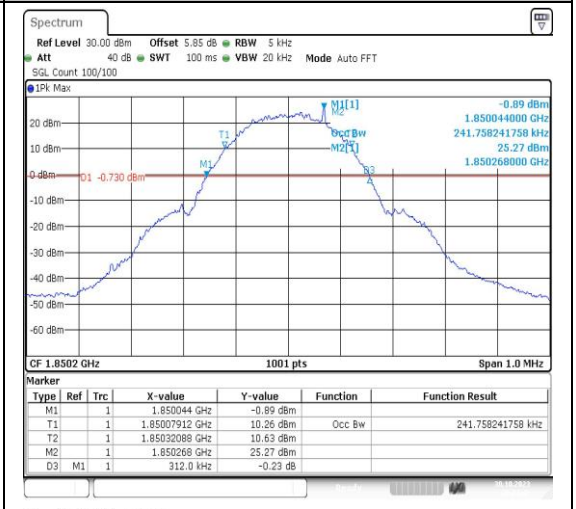
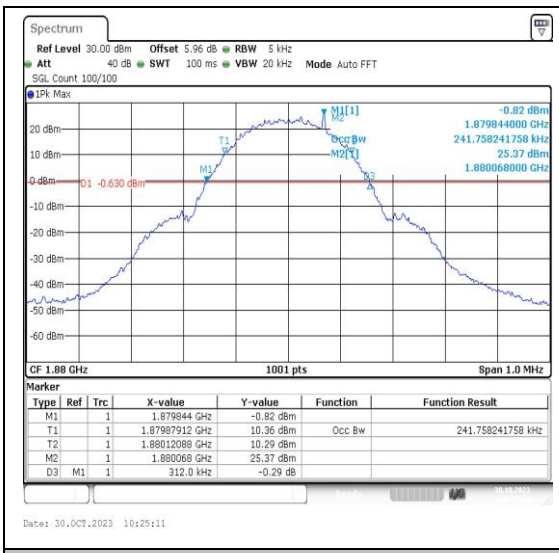
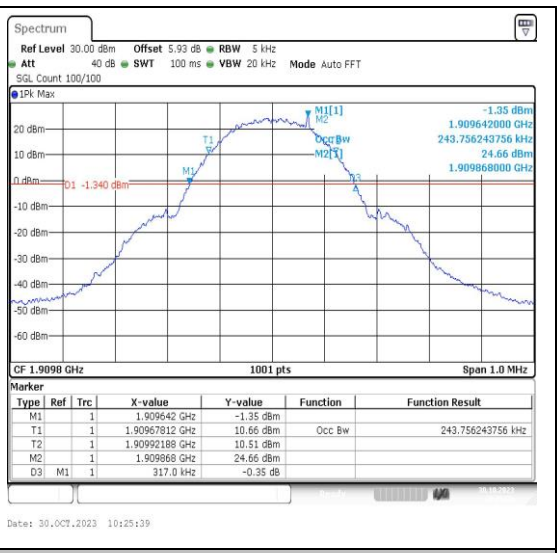


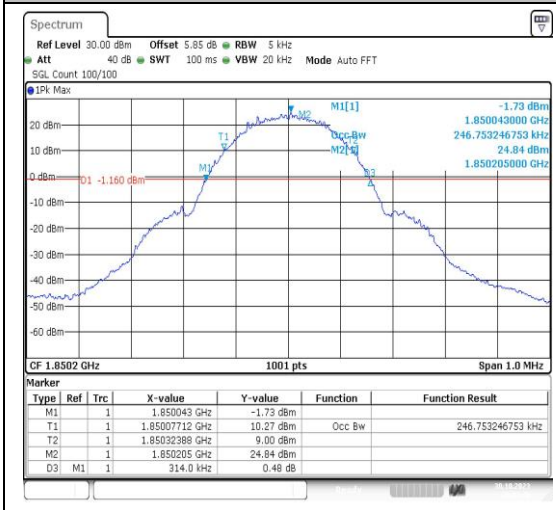
GSM1900-512-0-PASS



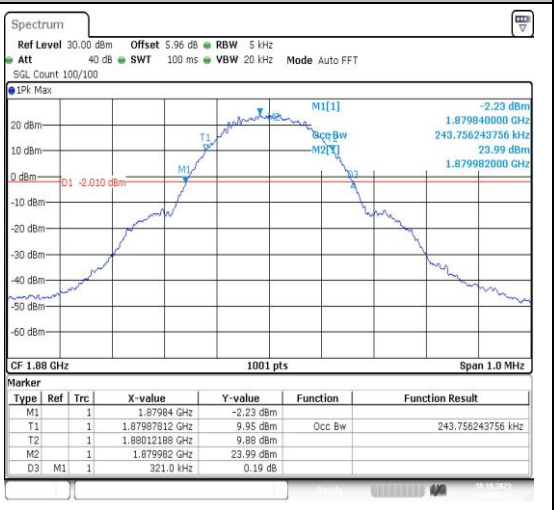
GSM1900-661-0-PASS



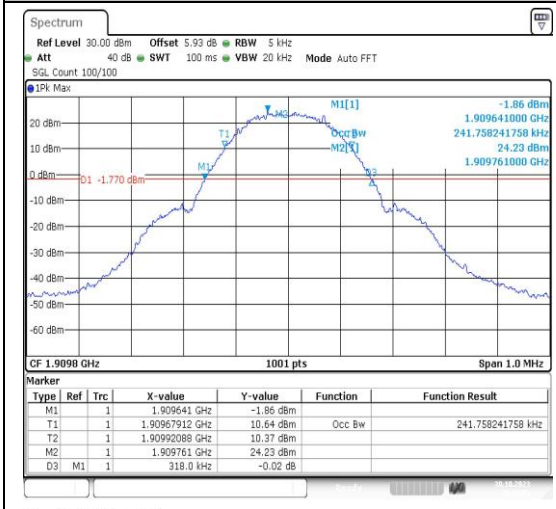
GSM1900-810-0-PASS



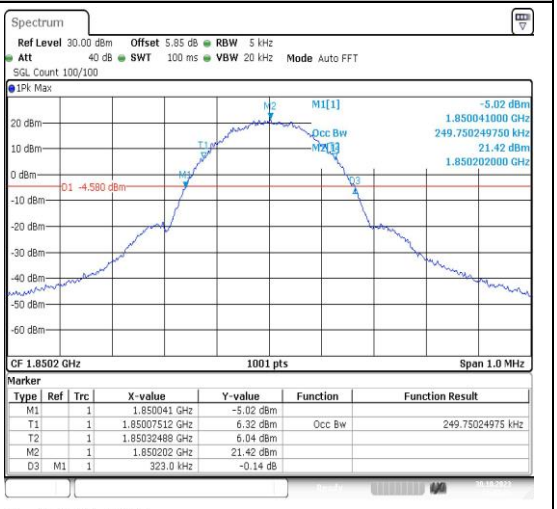
GPRS1900-512-0-PASS



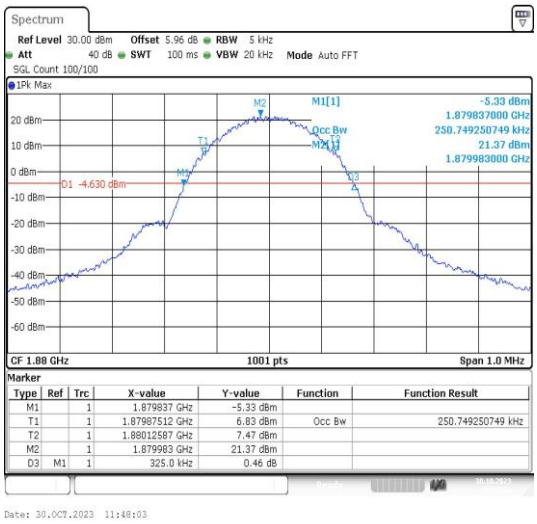
GPRS1900-661-0-PASS



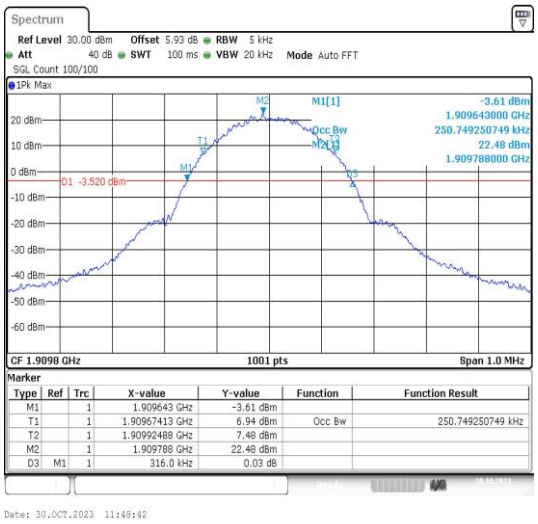
GPRS1900-810-0-PASS



EGPRS1900-512-2-PASS



EGPRS1900-661-2-PASS



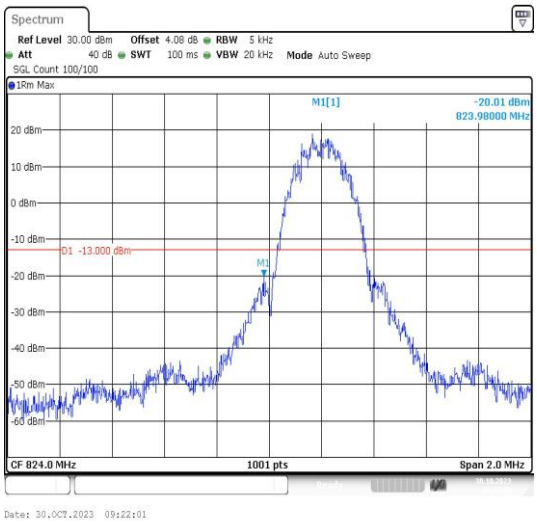
EGPRS1900-810-2-PASS

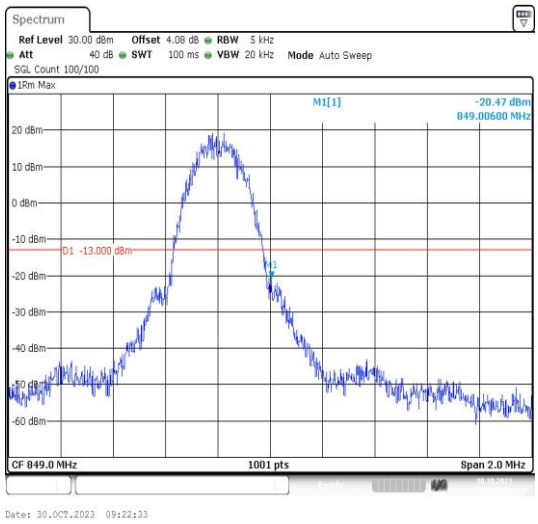
Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
EGPRS850	128	823.98	-20.01	-13	PASS
EGPRS850	251	849.01	-20.47	-13	PASS
GSM1900	512	1849.97	-16.33	-13	PASS
GSM1900	810	1910.02	-13.98	-13	PASS
GPRS1900	512	1849.98	-16.74	-13	PASS
GPRS1900	810	1910.02	-15.45	-13	PASS
EGPRS1900	512	1849.99	-23.21	-13	PASS
EGPRS1900	810	1910.00	-22.96	-13	PASS
GSM850	128	824.00	-16.18	-13	PASS
GSM850	251	849.02	-16.73	-13	PASS
GPRS850	128	823.99	-15.56	-13	PASS
GPRS850	251	849.01	-17.31	-13	PASS

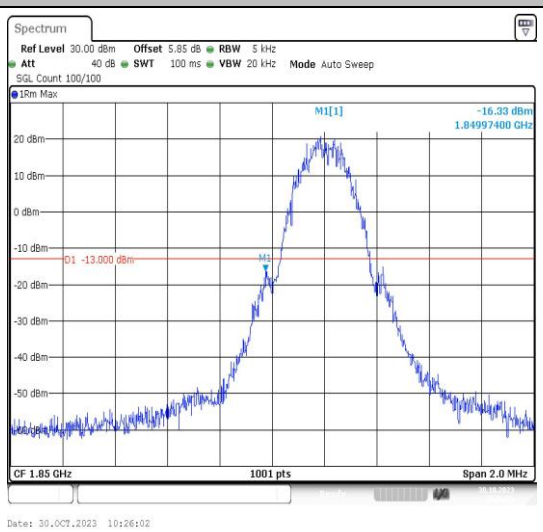
Test Graphs

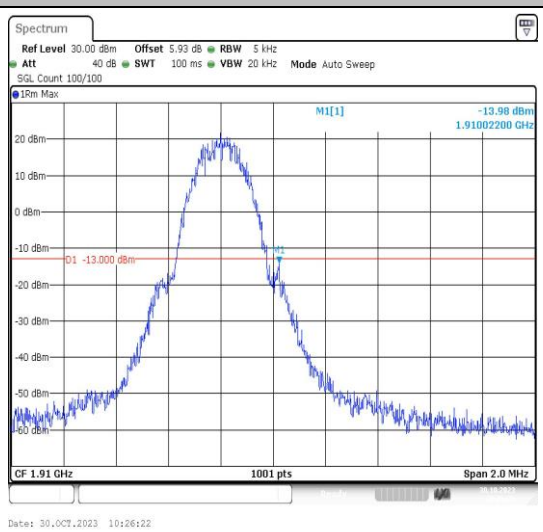




EGPRS850-128-8-PASS

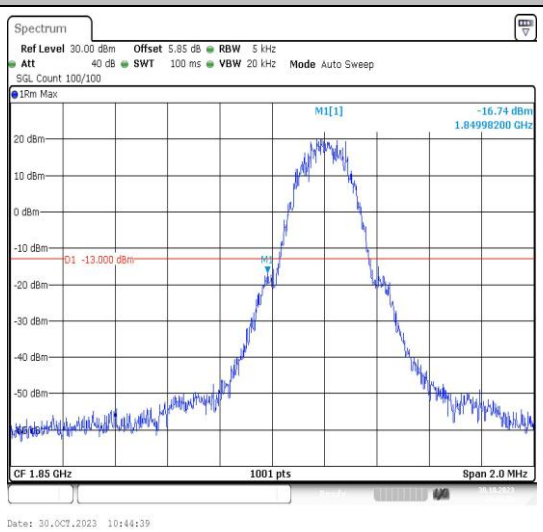
EGPRS850-251-8-PASS

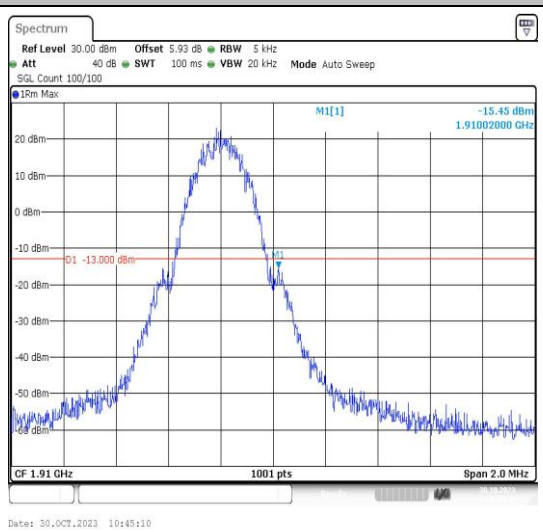


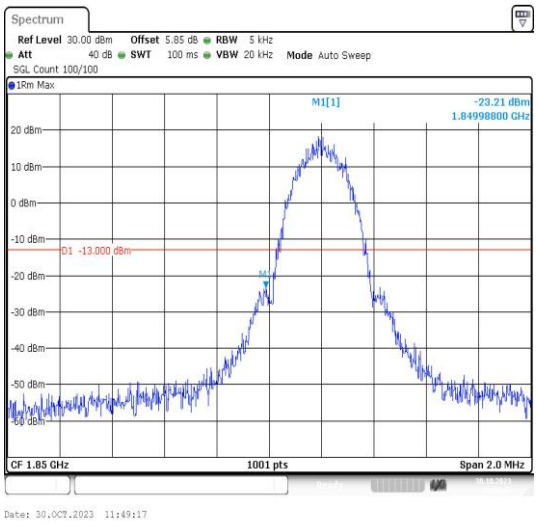
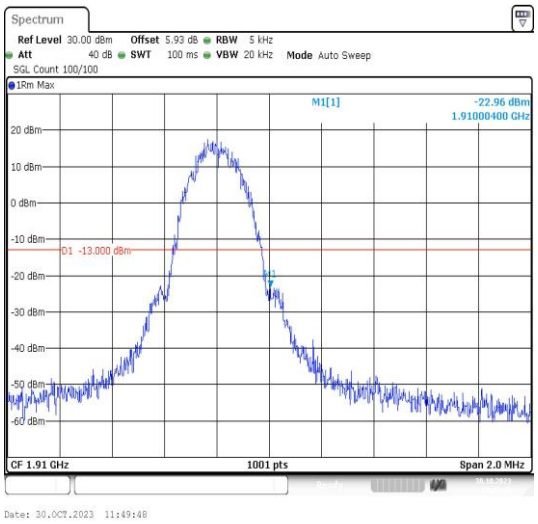


GSM1900-512-0-PASS

GSM1900-810-0-PASS





GPRS1900-512-0-PASS	GPRS1900-810-0-PASS
	
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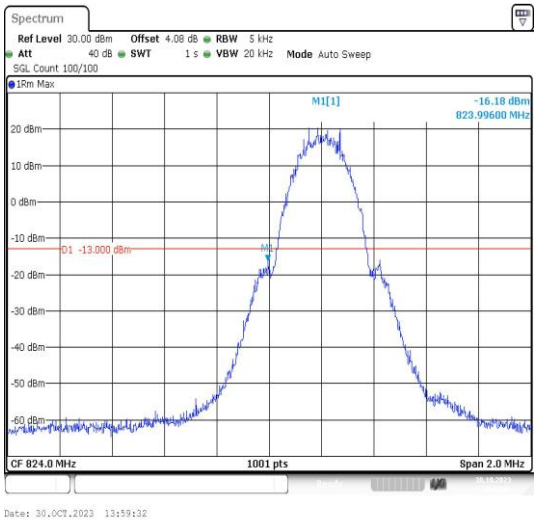
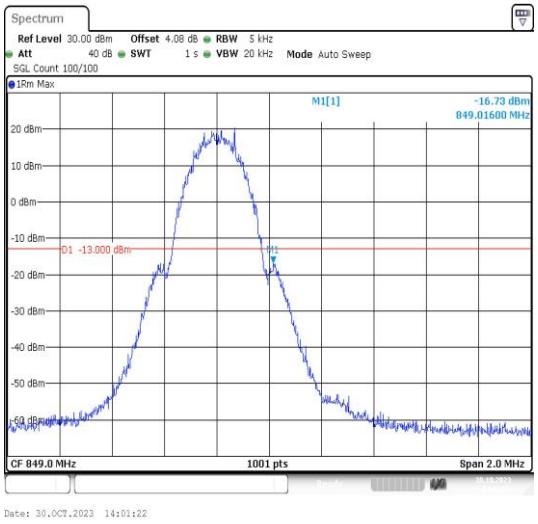
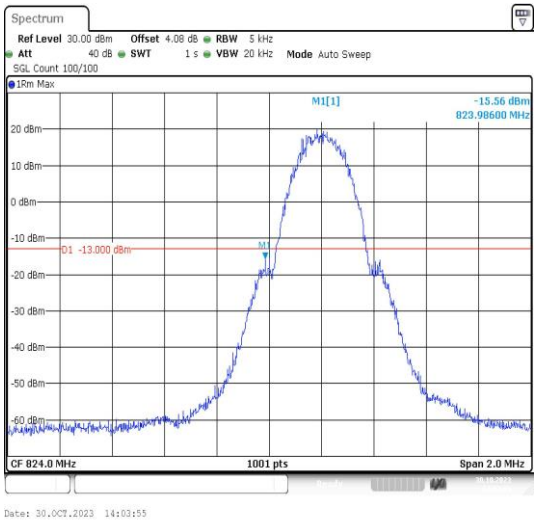
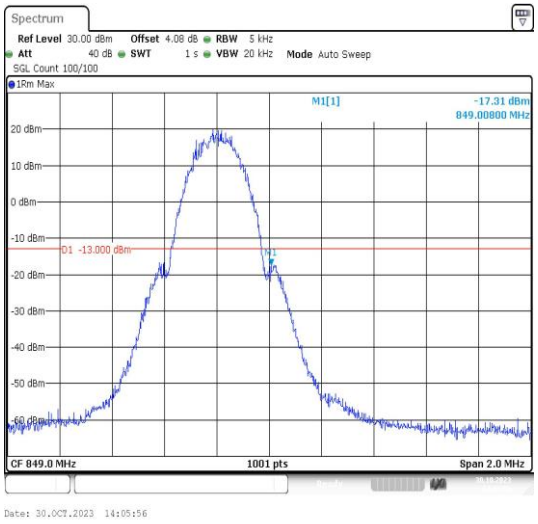
	
GSM850-128-5-PASS	GSM850-251-5-PASS
	
GPRS850-128-5-PASS	GPRS850-251-5-PASS

Appendix E: Conducted Spurious Emission

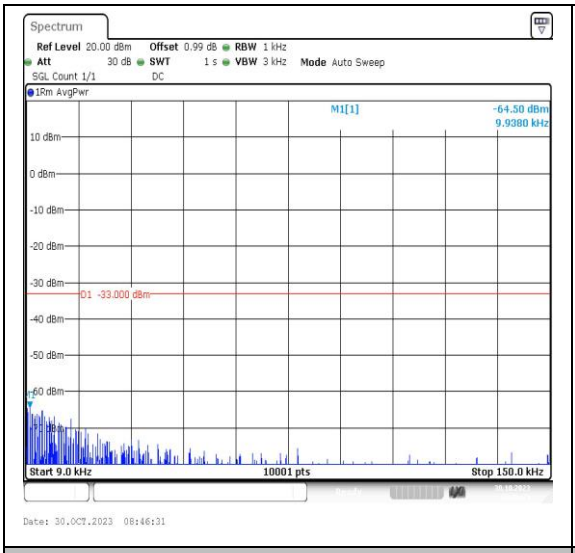
Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.01	-64.5	-33	PASS
GSM850	128	0.15~30MHz	0.38	-63.92	-23	PASS
GSM850	128	30~1000MHz	935.37	-52.34	-13	PASS
GSM850	128	1000~10000MHz	6583.86	-50.35	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-62.9	-33	PASS
GSM850	190	0.15~30MHz	0.31	-64.38	-23	PASS
GSM850	190	30~1000MHz	946.46	-52.31	-13	PASS
GSM850	190	1000~10000MHz	6654.66	-50.37	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-62.94	-33	PASS
GSM850	251	0.15~30MHz	0.19	-64.28	-23	PASS
GSM850	251	30~1000MHz	952.73	-52.33	-13	PASS
GSM850	251	1000~10000MHz	1697.63	-37.19	-13	PASS
GPRS850	128	0.009~0.15MHz	0.01	-62.85	-33	PASS
GPRS850	128	0.15~30MHz	0.36	-63.67	-23	PASS
GPRS850	128	30~1000MHz	940.6	-52.01	-13	PASS
GPRS850	128	1000~10000MHz	1648.43	-37.26	-13	PASS
GPRS850	190	0.009~0.15MHz	0.01	-63.65	-33	PASS
GPRS850	190	0.15~30MHz	0.2	-64.5	-23	PASS
GPRS850	190	30~1000MHz	997.74	-52.11	-13	PASS
GPRS850	190	1000~10000MHz	2509.7	-38.19	-13	PASS
GPRS850	251	0.009~0.15MHz	0.01	-64.51	-33	PASS
GPRS850	251	0.15~30MHz	0.16	-62.38	-23	PASS
GPRS850	251	30~1000MHz	996.8	-51.93	-13	PASS
GPRS850	251	1000~10000MHz	1697.63	-34.37	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.01	-64.92	-33	PASS
EGPRS850	128	0.15~30MHz	0.18	-63.66	-23	PASS
EGPRS850	128	30~1000MHz	954.6	-51.97	-13	PASS
EGPRS850	128	1000~10000MHz	1648.43	-45.99	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.01	-65.08	-33	PASS
EGPRS850	190	0.15~30MHz	0.17	-62.94	-23	PASS
EGPRS850	190	30~1000MHz	990.07	-52.22	-13	PASS
EGPRS850	190	1000~10000MHz	1673.03	-45.67	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.01	-63.09	-33	PASS

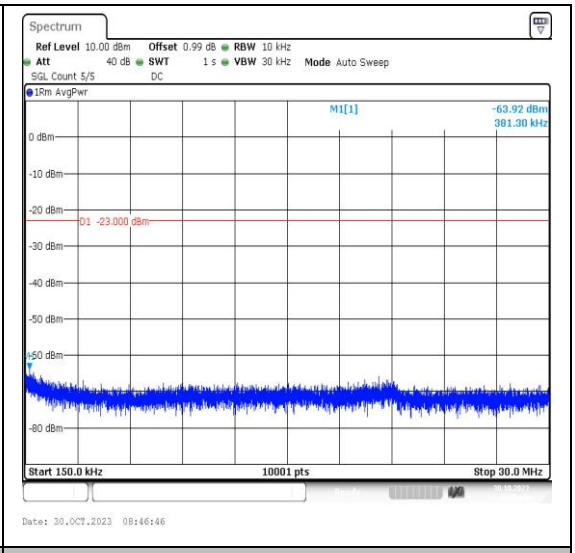
EGPRS850	251	0.15~30MHz	0.17	-63.91	-23	PASS
EGPRS850	251	30~1000MHz	949.33	-51.97	-13	PASS
EGPRS850	251	1000~10000MHz	6610.86	-50.38	-13	PASS
GSM1900	512	0.009~0.15MHz	0.01	-68.51	-43	PASS
GSM1900	512	0.15~30MHz	0.22	-63.36	-33	PASS
GSM1900	512	30~1000MHz	965.87	-49.22	-13	PASS
GSM1900	512	1000~3000MHz	2991.13	-38.24	-13	PASS
GSM1900	512	3000~18000MHz	3700.23	-32.23	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-69.08	-43	PASS
GSM1900	661	0.15~30MHz	0.15	-63.17	-33	PASS
GSM1900	661	30~1000MHz	960.51	-49.16	-13	PASS
GSM1900	661	1000~3000MHz	2986.87	-38.21	-13	PASS
GSM1900	661	3000~18000MHz	6567.13	-47.59	-13	PASS
GSM1900	810	0.009~0.15MHz	0.01	-66.76	-43	PASS
GSM1900	810	0.15~30MHz	0.15	-62.5	-33	PASS
GSM1900	810	30~1000MHz	923.42	-49.05	-13	PASS
GSM1900	810	1000~3000MHz	2943.67	-38.38	-13	PASS
GSM1900	810	3000~18000MHz	6552.13	-47.48	-13	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-57.88	-43	PASS
GPRS1900	512	0.15~30MHz	0.15	-63.13	-33	PASS
GPRS1900	512	30~1000MHz	923.2	-49.21	-13	PASS
GPRS1900	512	1000~3000MHz	2945.07	-38.31	-13	PASS
GPRS1900	512	3000~18000MHz	3700.23	-35.43	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-56.31	-43	PASS
GPRS1900	661	0.15~30MHz	0.7	-63.8	-33	PASS
GPRS1900	661	30~1000MHz	960.18	-49.24	-13	PASS
GPRS1900	661	1000~3000MHz	2966.07	-38.18	-13	PASS
GPRS1900	661	3000~18000MHz	3760.22	-35.96	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-55.7	-43	PASS
GPRS1900	810	0.15~30MHz	0.21	-63.73	-33	PASS
GPRS1900	810	30~1000MHz	800.14	-49.16	-13	PASS
GPRS1900	810	1000~3000MHz	2962.87	-38.2	-13	PASS
GPRS1900	810	3000~18000MHz	3819.72	-35.76	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.01	-58.41	-43	PASS
EGPRS1900	512	0.15~30MHz	0.16	-63.28	-33	PASS
EGPRS1900	512	30~1000MHz	925.39	-49.16	-13	PASS
EGPRS1900	512	1000~3000MHz	2865.67	-38.31	-13	PASS
EGPRS1900	512	3000~18000MHz	6594.13	-47.35	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.01	-58	-43	PASS
EGPRS1900	661	0.15~30MHz	0.18	-63.1	-33	PASS
EGPRS1900	661	30~1000MHz	952	-49.17	-13	PASS
EGPRS1900	661	1000~3000MHz	2963.27	-38.18	-13	PASS

EGPRS1900	661	3000~18000MHz	5639.66	-47.55	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.01	-59.98	-43	PASS
EGPRS1900	810	0.15~30MHz	0.15	-63	-33	PASS
EGPRS1900	810	30~1000MHz	890.31	-49.12	-13	PASS
EGPRS1900	810	1000~3000MHz	2962.87	-38.25	-13	PASS
EGPRS1900	810	3000~18000MHz	6540.63	-47.63	-13	PASS

Test Graphs



GSM850-128-5-0.009~0.15MHz-PASS



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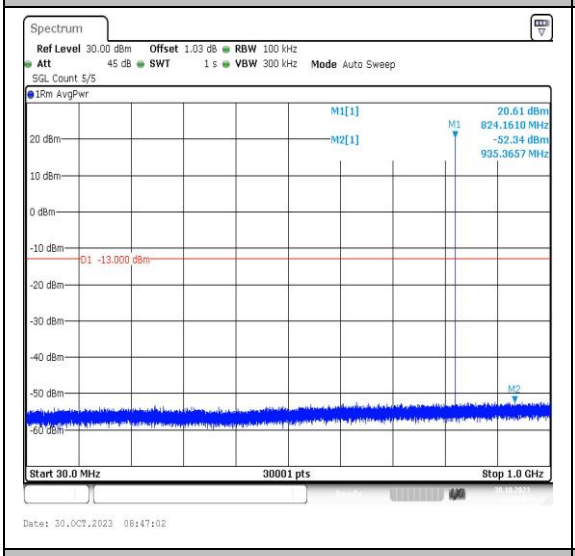
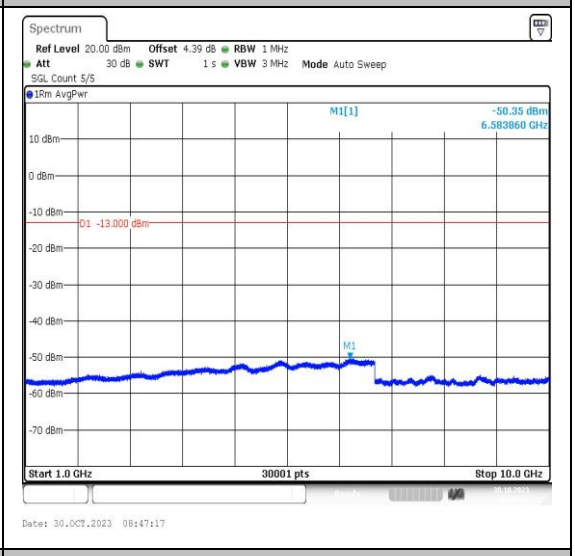
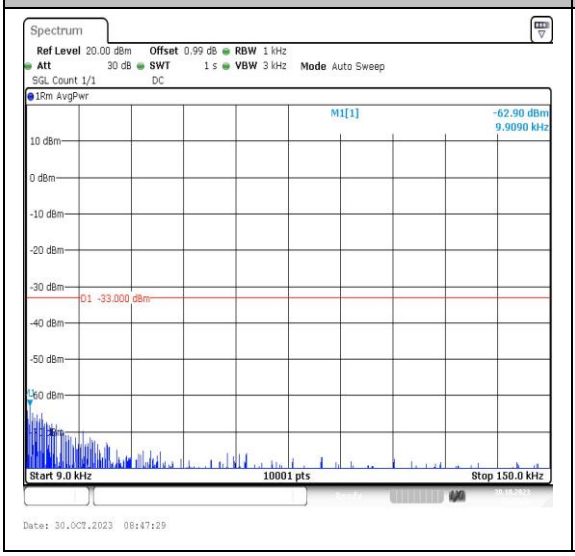
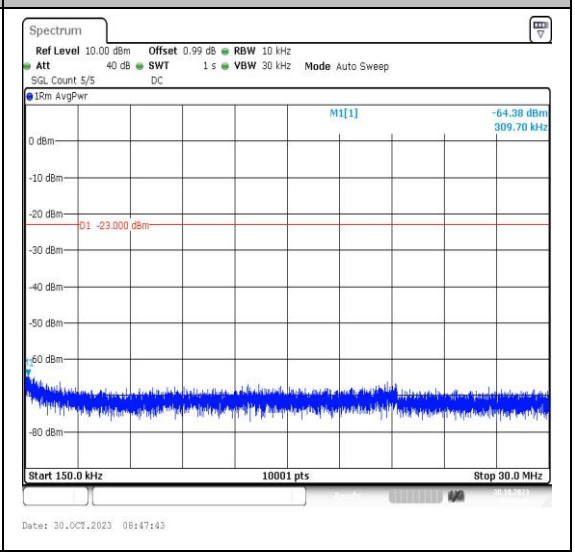


GSM850-128-5-30~1000MHz-PASS

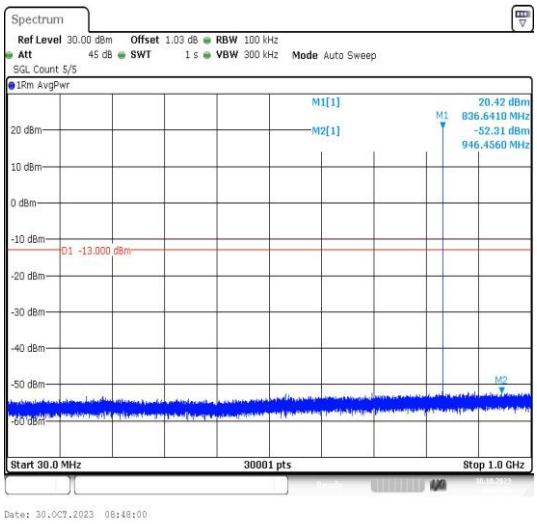


GSM850-128-5-1000~10000MHz-PASS

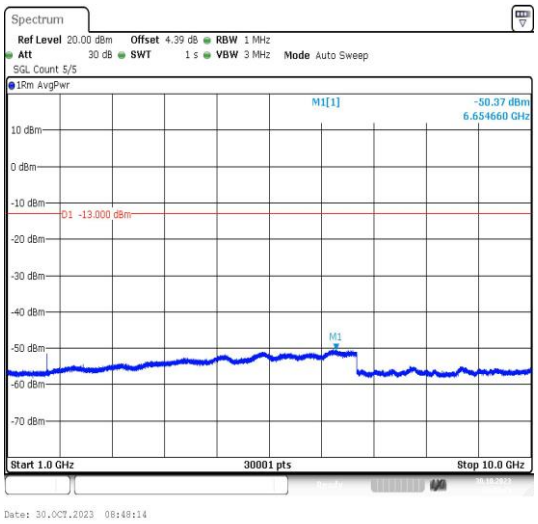




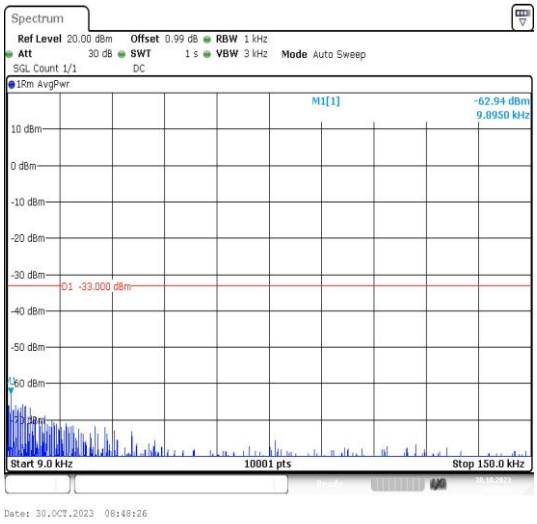
GSM850-190-5-0.009~0.15MHz-PASS



GSM850-190-5-0.15~30MHz-PASS



GSM850-190-5-30~1000MHz-PASS



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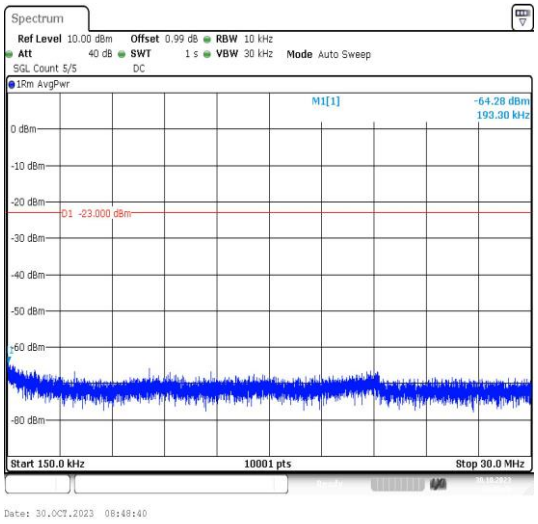
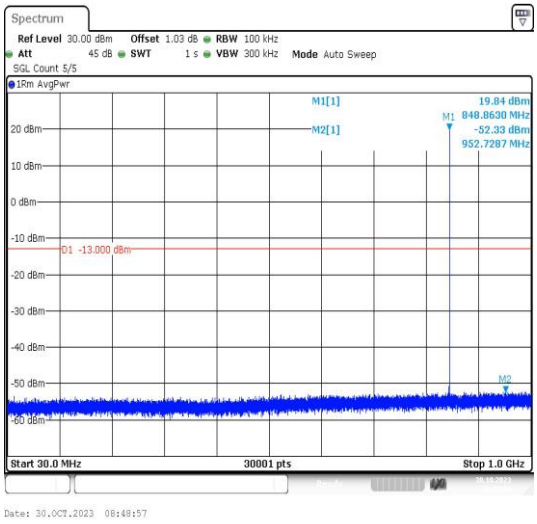
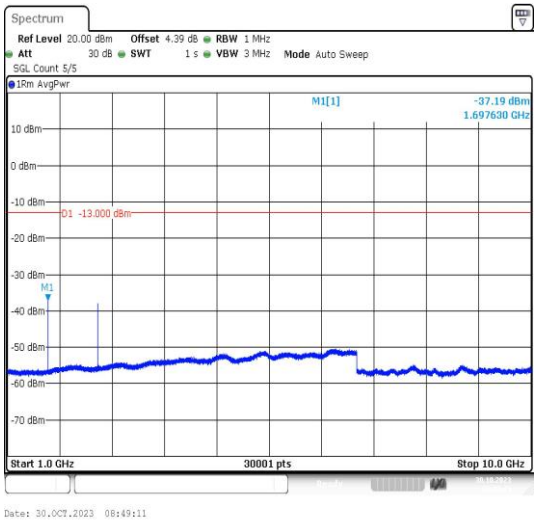


GSM850-251-5-0.009~0.15MHz-PASS

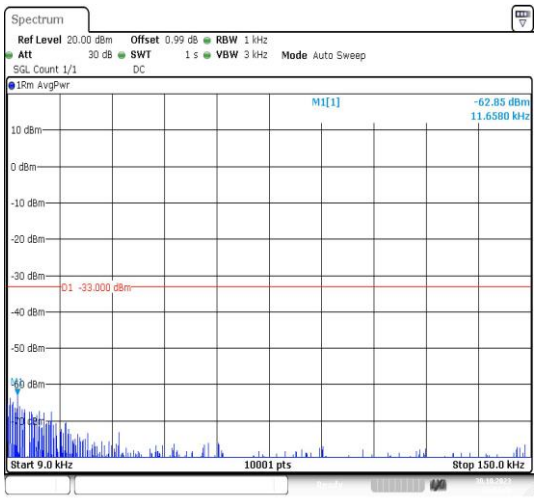


GSM850-251-5-0.15~30MHz-PASS

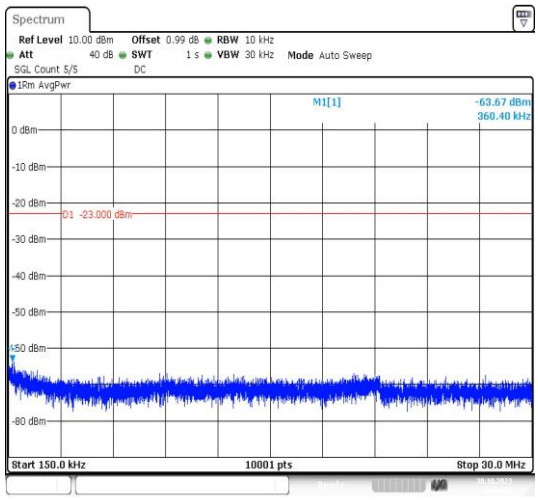


GSM850-251-5-30~1000MHz-PASS

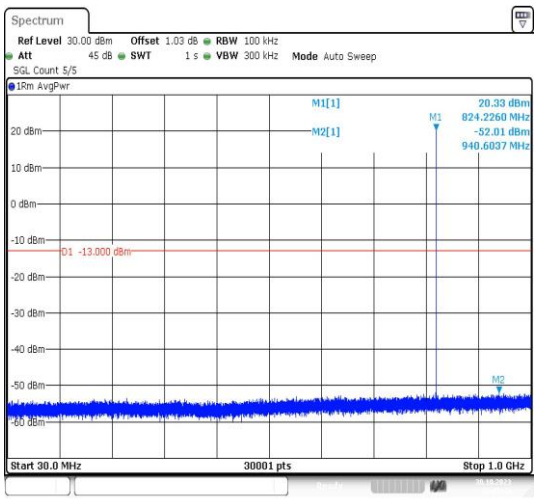
GSM850-251-5-1000~10000MHz-PASS



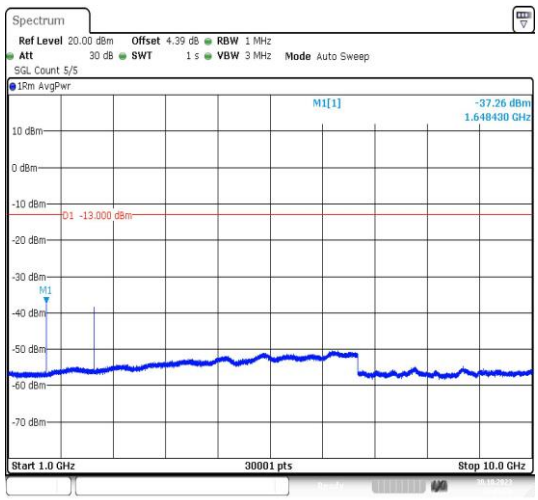
GPRS850-128-5-0.009~0.15MHz-PASS



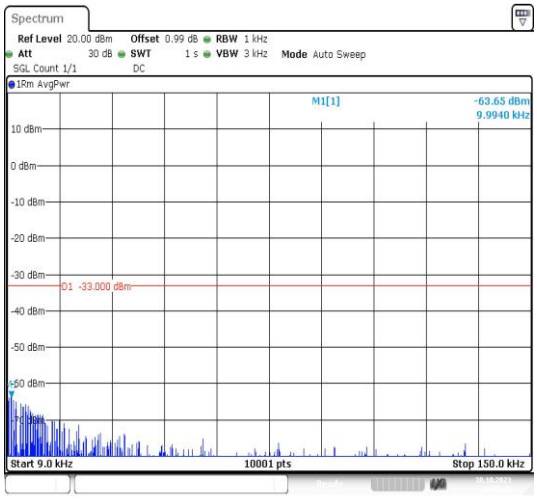
GPRS850-128-5-0.15~30MHz-PASS



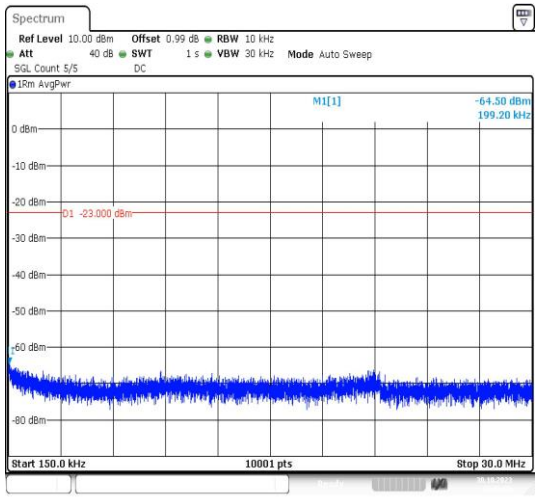
GPRS850-128-5-30~1000MHz-PASS



GPRS850-128-5-1000~10000MHz-PASS



GPRS850-190-5-0.009~0.15MHz-PASS



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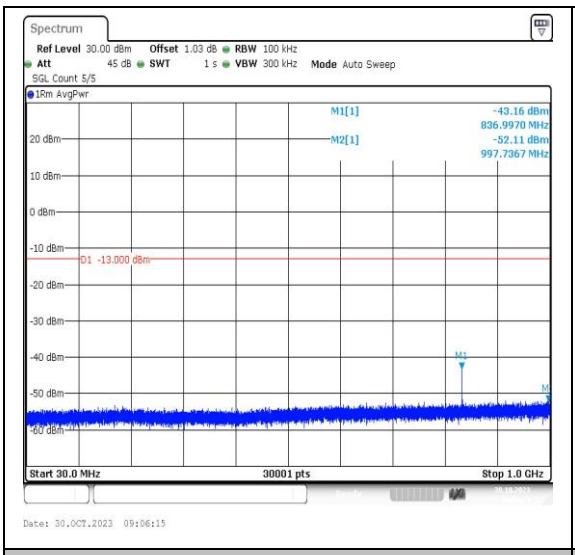
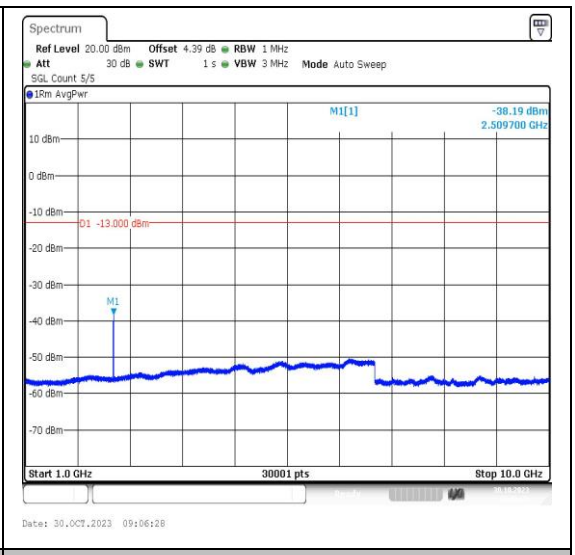
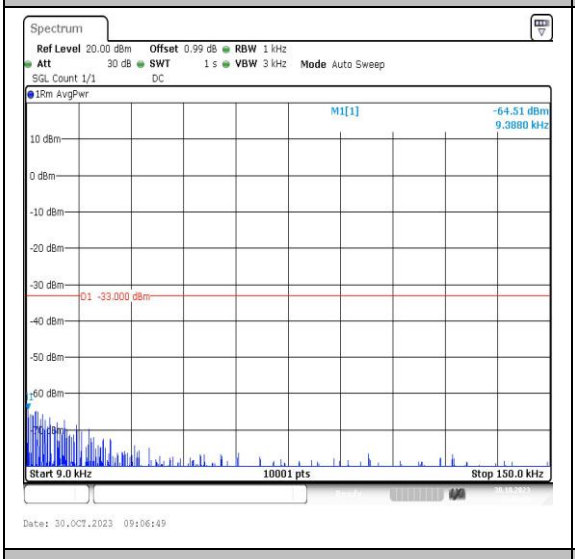


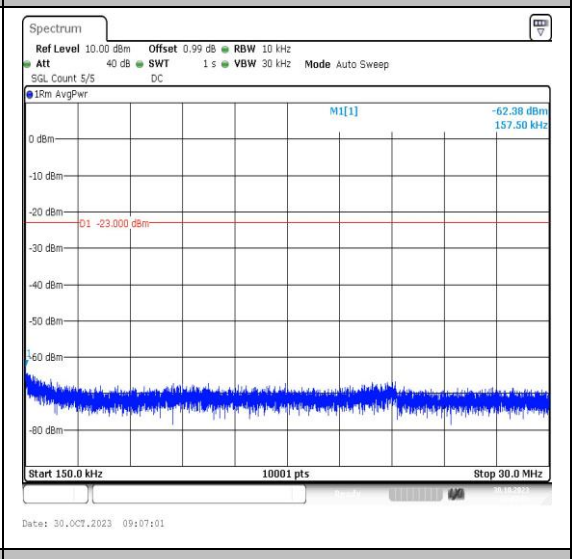
GPRS850-190-5-30~1000MHz-PASS



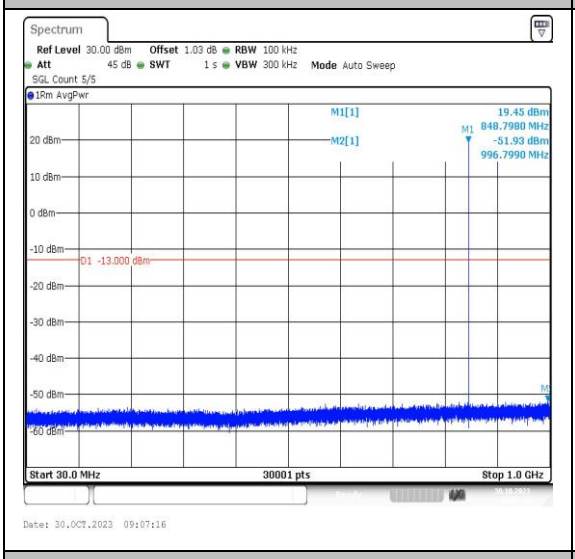
GPRS850-190-5-1000~10000MHz-PASS



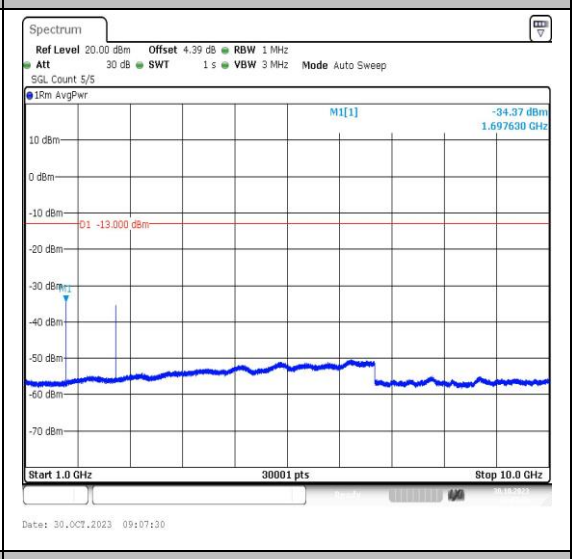
GPRS850-251-5-0.009~0.15MHz-PASS



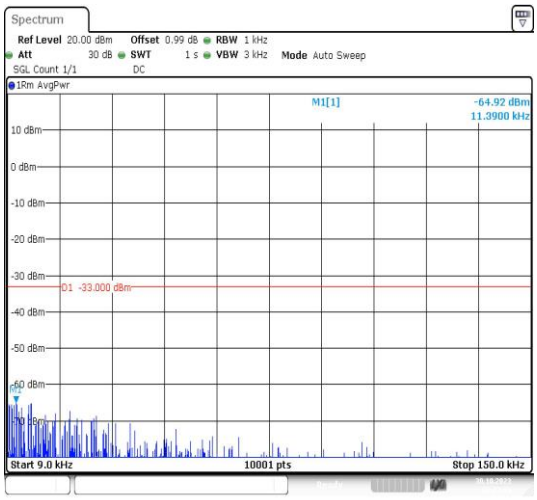
GPRS850-251-5-0.15~30MHz-PASS



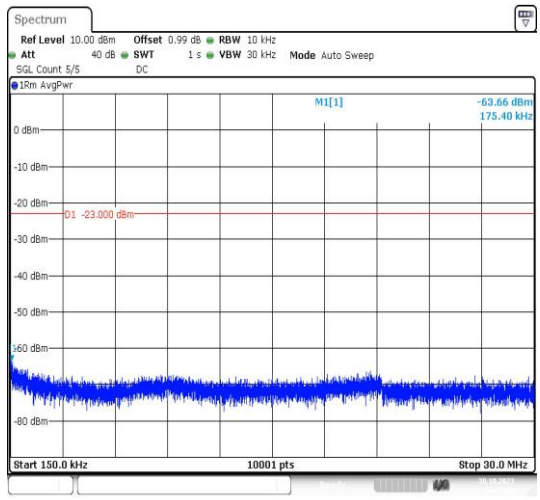
GPRS850-251-5-30~1000MHz-PASS



GPRS850-251-5-1000~10000MHz-PASS



EGPRS850-128-8-0.009~0.15MHz-PASS



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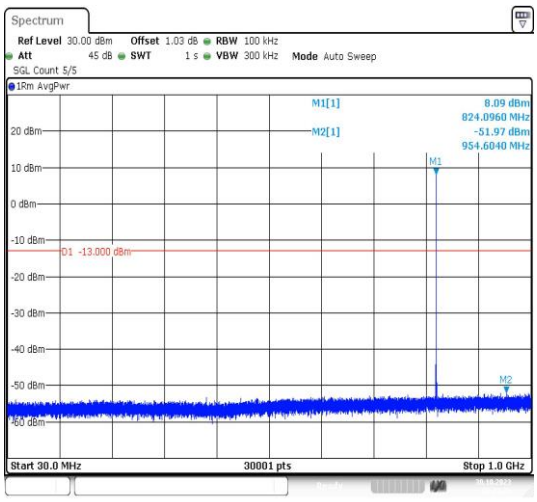
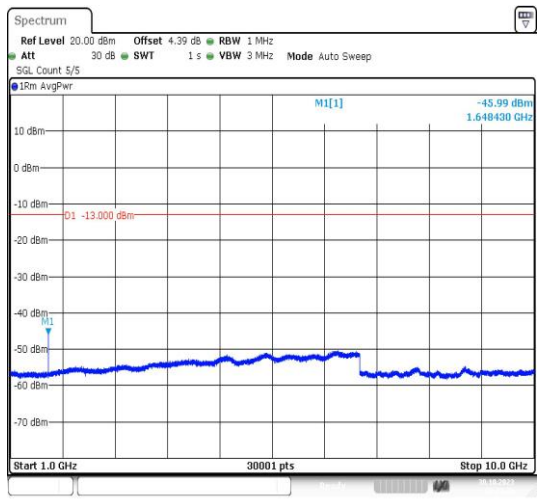
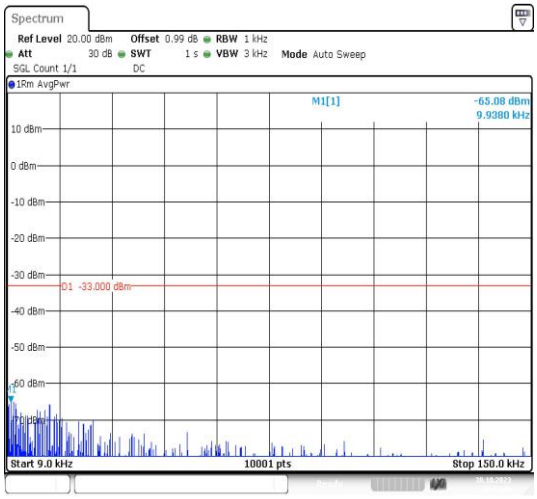


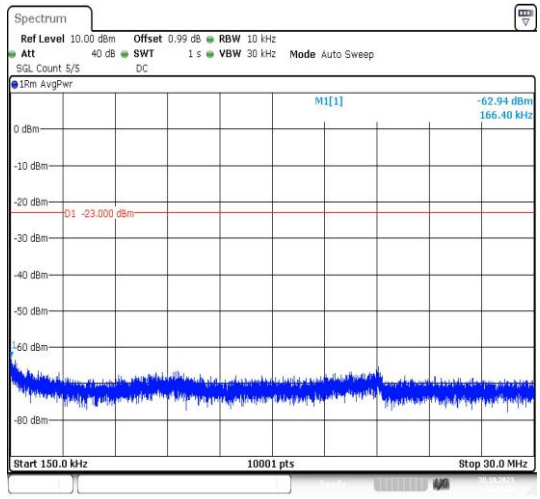
EGPRS850-128-8-30~1000MHz-PASS



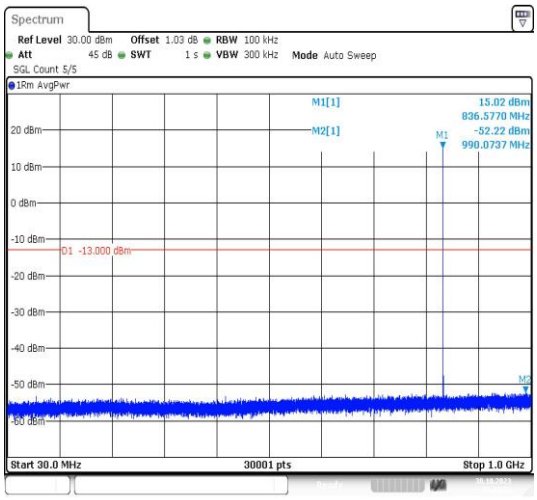
EGPRS850-128-8-1000~10000MHz-PASS



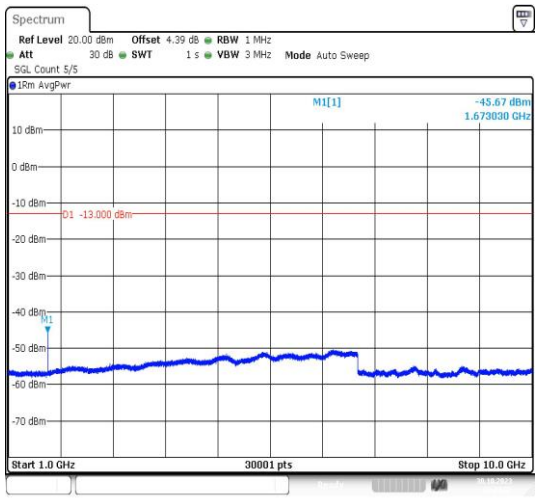
EGPRS850-190-8-0.009~0.15MHz-PASS



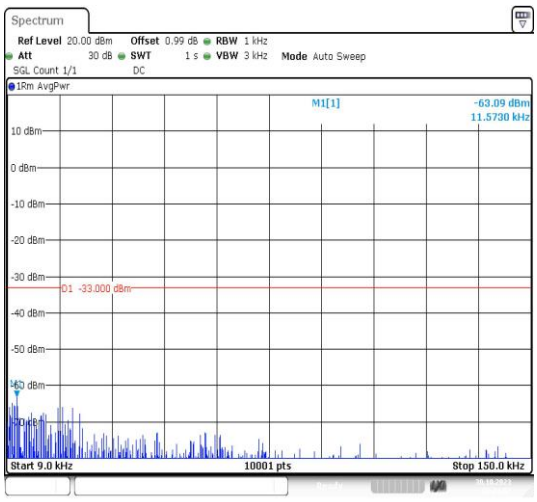
EGPRS850-190-8-0.15~30MHz-PASS



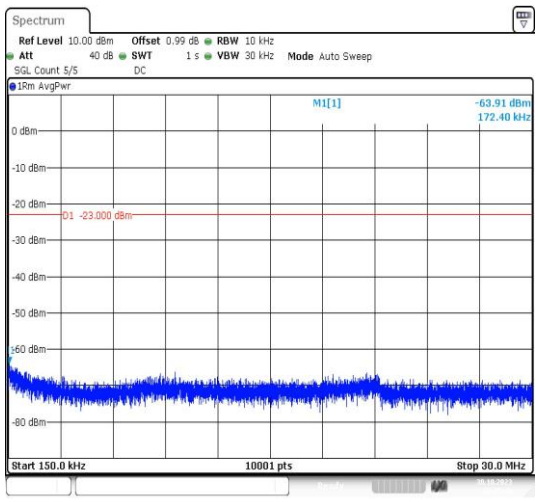
EGPRS850-190-8-30~1000MHz-PASS



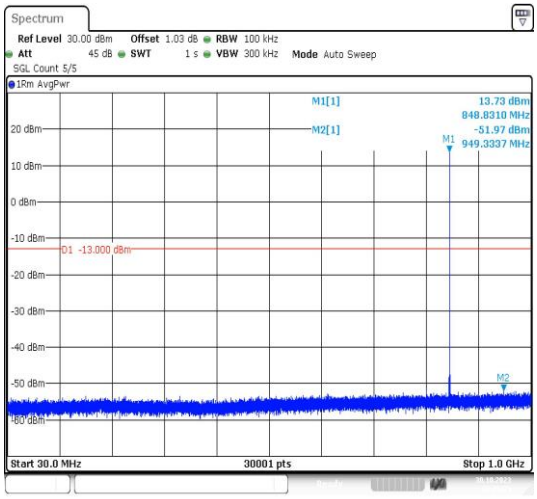
EGPRS850-190-8-1000~10000MHz-PASS



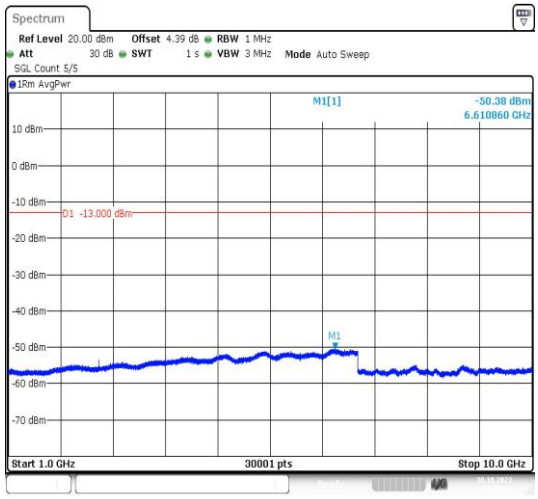
EGPRS850-251-8-0.009~0.15MHz-PASS



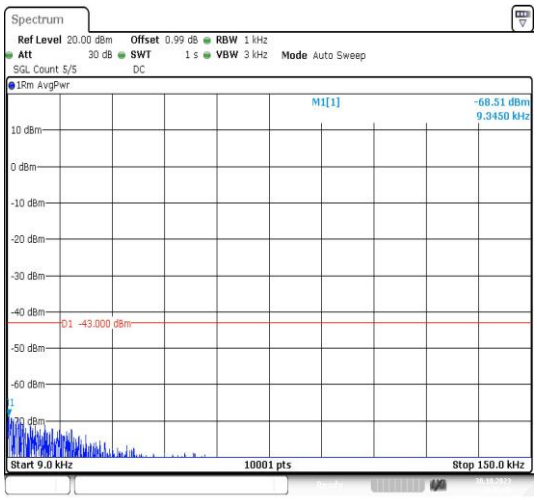
EGPRS850-251-8-0.15~30MHz-PASS



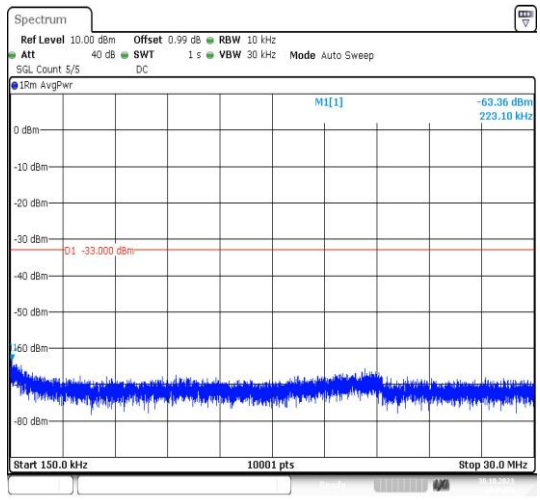
EGPRS850-251-8-30~1000MHz-PASS



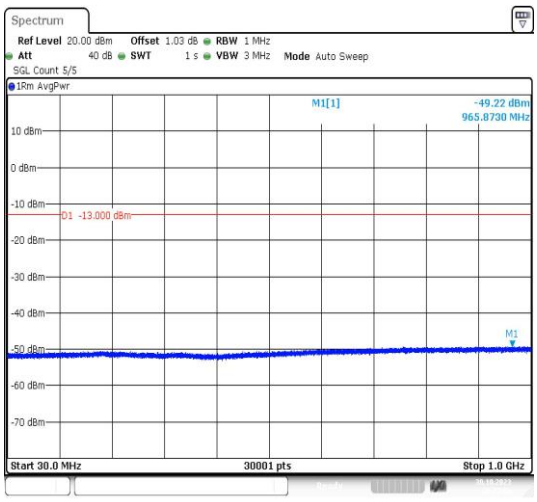
EGPRS850-251-8-1000~10000MHz-PASS



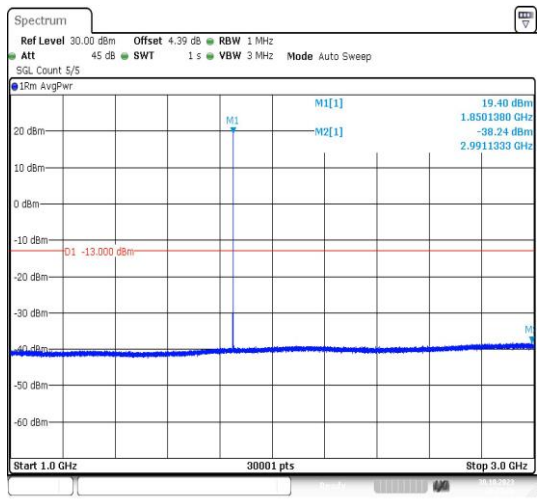
GSM1900-512-0-0.009~0.15MHz-PASS



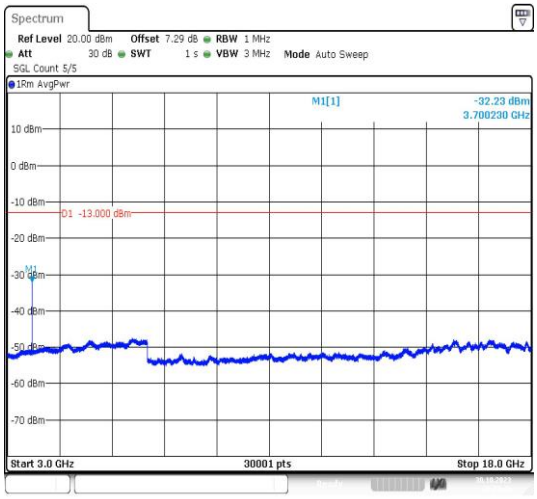
GSM1900-512-0-0.15~30MHz-PASS



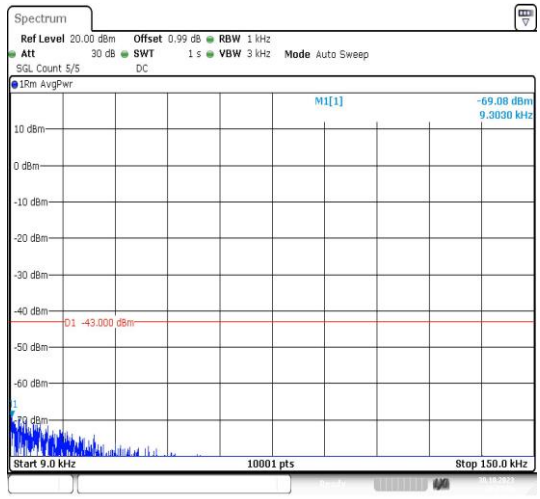
GSM1900-512-0-30~1000MHz-PASS



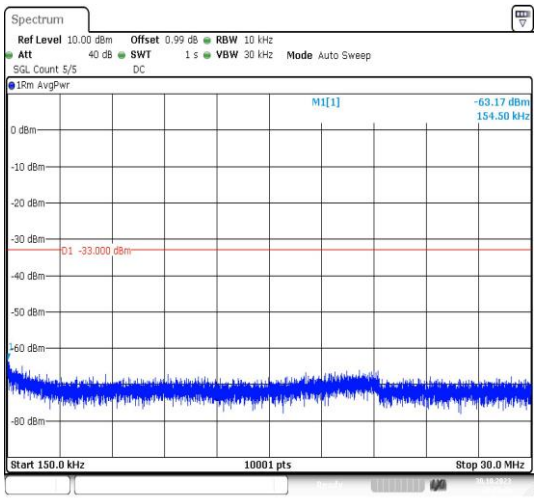
GSM1900-512-0-1000~3000MHz-PASS



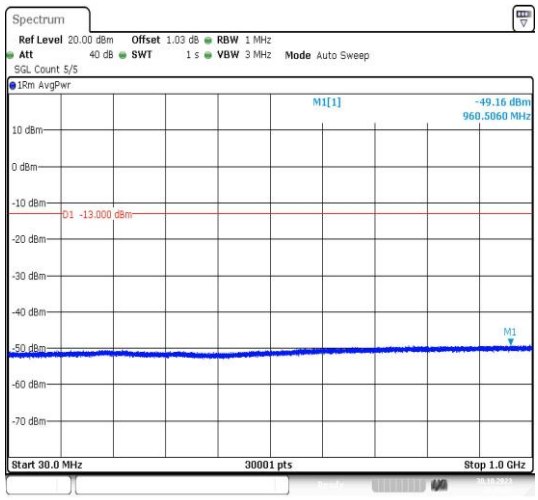
GSM1900-512-0-3000~18000MHz-PASS



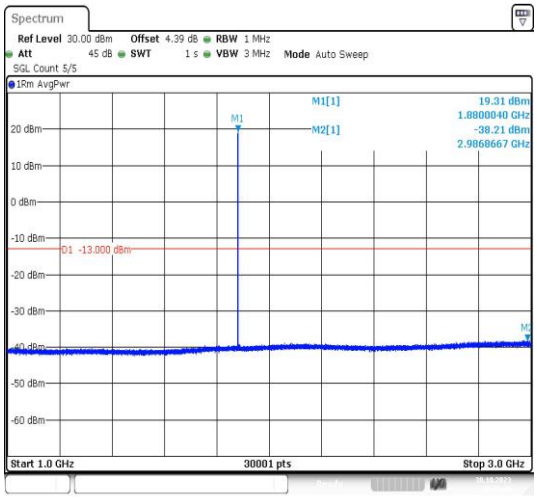
GSM1900-661-0-0.009~0.15MHz-PASS



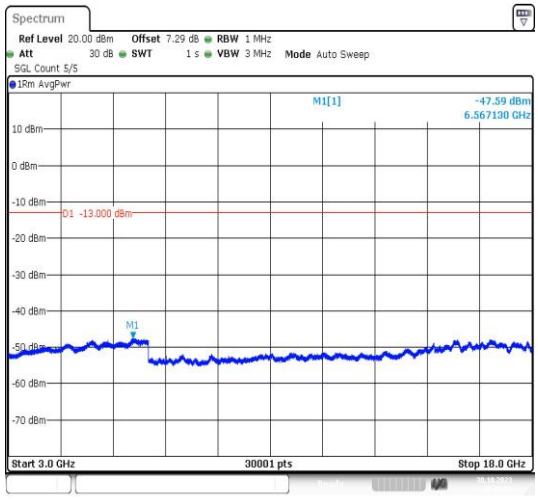
GSM1900-661-0-0.15~30MHz-PASS



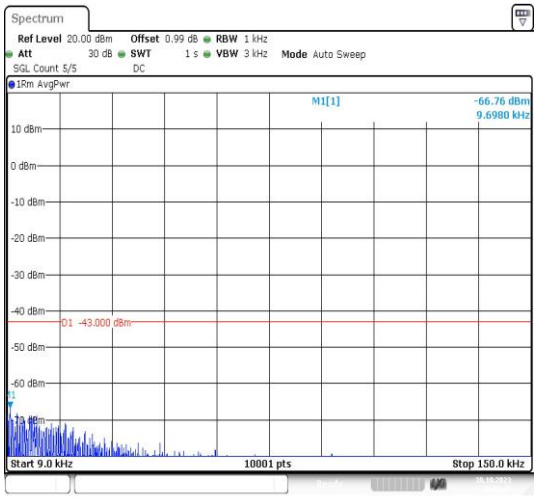
GSM1900-661-0-30~1000MHz-PASS



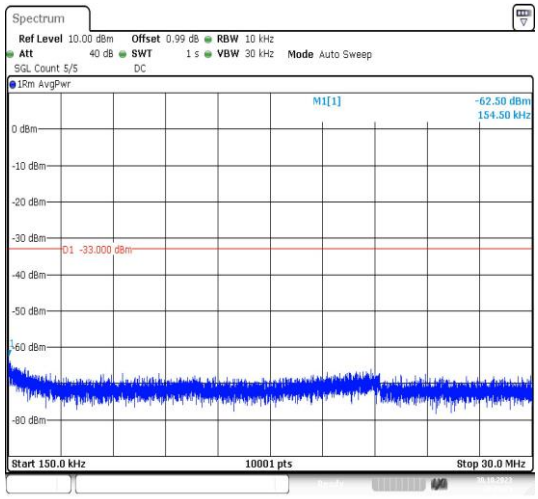
GSM1900-661-0-1000~3000MHz-PASS



GSM1900-661-0-3000~18000MHz-PASS



GSM1900-810-0-0.009~0.15MHz-PASS



GSM1900-810-0-0.15~30MHz-PASS