

Appendix A: Conducted Output Power

Test Result

Band	Channel	Conducted Output Power(dBm)	Limit(dBm)	Verdict
GSM1900	512	28.39	33	PASS
GSM1900	661	28.76	33	PASS
GSM1900	810	28.48	33	PASS

Band	Channel	Up Slot Num	Power(dBm)	Limit(dBm)	Verdict
GPRS1900	512	1	28.31	33	PASS
GPRS1900	512	2	27.52	33	PASS
GPRS1900	512	3	25.48	33	PASS
GPRS1900	512	4	24.25	33	PASS
GPRS1900	661	1	28.63	33	PASS
GPRS1900	661	2	27.90	33	PASS
GPRS1900	661	3	25.93	33	PASS
GPRS1900	661	4	24.40	33	PASS
GPRS1900	810	1	28.18	33	PASS
GPRS1900	810	2	27.48	33	PASS
GPRS1900	810	3	25.38	33	PASS
GPRS1900	810	4	23.86	33	PASS

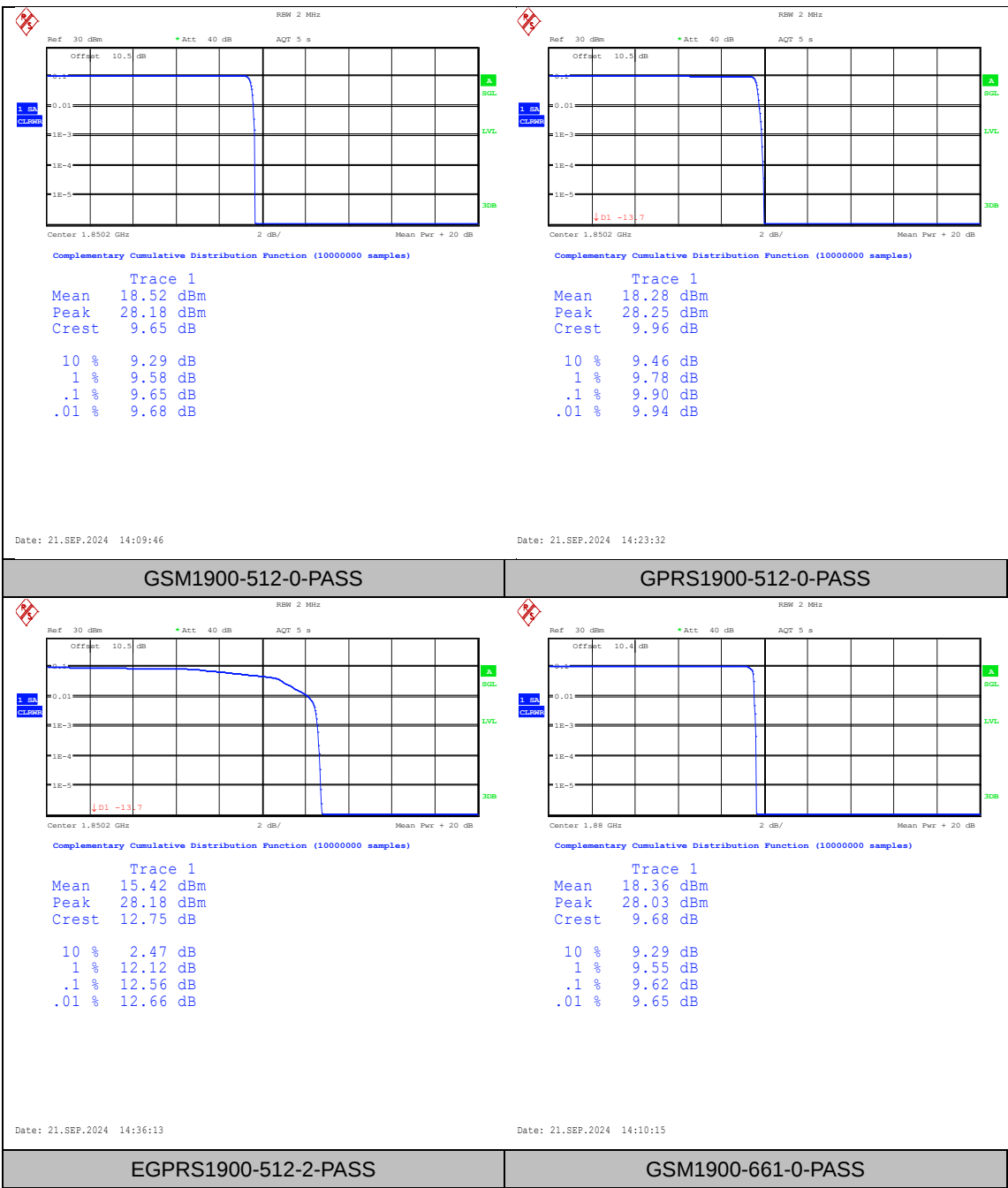
Band	Channel	Up Slot Num	Power(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	24.92	33	PASS
EGPRS1900	512	2	23.89	33	PASS
EGPRS1900	512	3	21.63	33	PASS
EGPRS1900	512	4	20.59	33	PASS
EGPRS1900	661	1	24.90	33	PASS
EGPRS1900	661	2	23.81	33	PASS
EGPRS1900	661	3	21.39	33	PASS
EGPRS1900	661	4	20.16	33	PASS
EGPRS1900	810	1	24.62	33	PASS
EGPRS1900	810	2	23.51	33	PASS
EGPRS1900	810	3	21.23	33	PASS
EGPRS1900	810	4	20.20	33	PASS

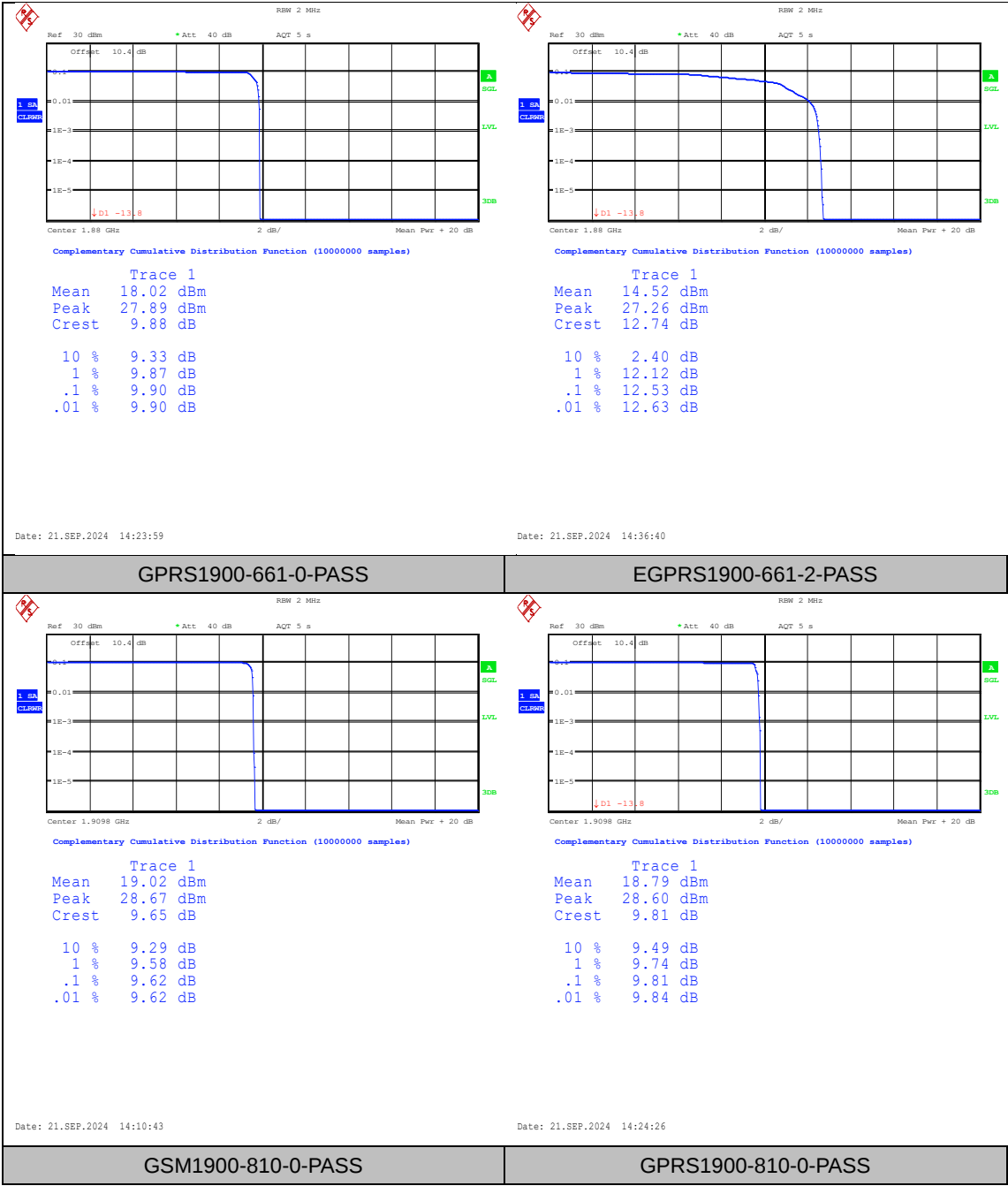
Appendix B: Peak-to-Average Ratio(CCDF)

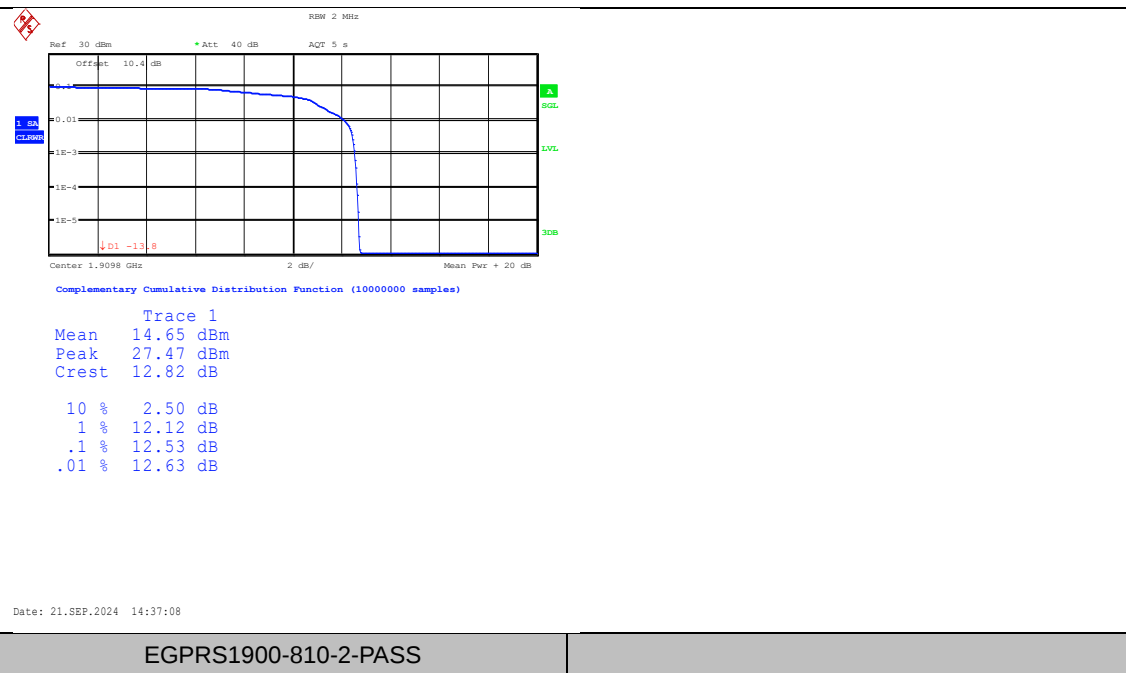
Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM1900	512	9.65	13	PASS
GPRS1900	512	9.90	13	PASS
EGPRS1900	512	12.56	13	PASS
GSM1900	661	9.62	13	PASS
GPRS1900	661	9.90	13	PASS
EGPRS1900	661	12.53	13	PASS
GSM1900	810	9.62	13	PASS
GPRS1900	810	9.81	13	PASS
EGPRS1900	810	12.53	13	PASS

Test Graphs





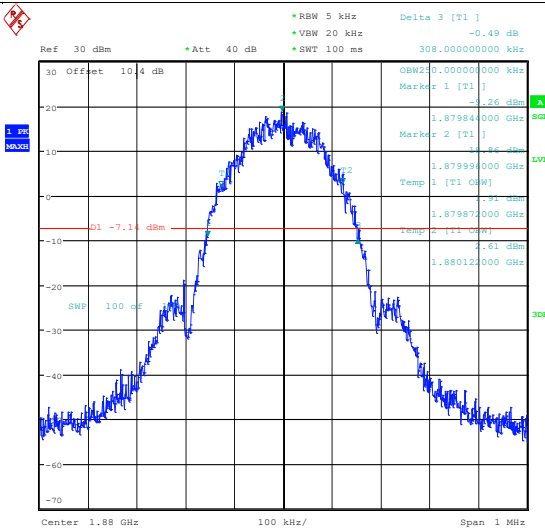
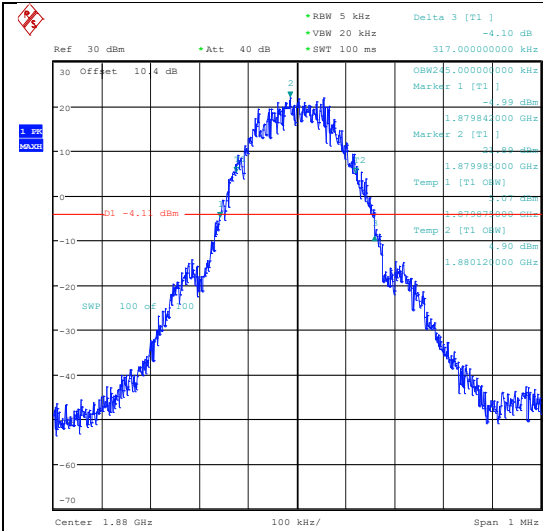


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM1900	512	0.246	0.32	---	PASS
GPRS1900	512	0.244	0.31	---	PASS
EGPRS1900	512	0.253	0.31	---	PASS
GSM1900	661	0.243	0.32	---	PASS
GPRS1900	661	0.245	0.32	---	PASS
EGPRS1900	661	0.25	0.31	---	PASS
GSM1900	810	0.243	0.29	---	PASS
GPRS1900	810	0.245	0.31	---	PASS
EGPRS1900	810	0.242	0.30	---	PASS

[illegible]

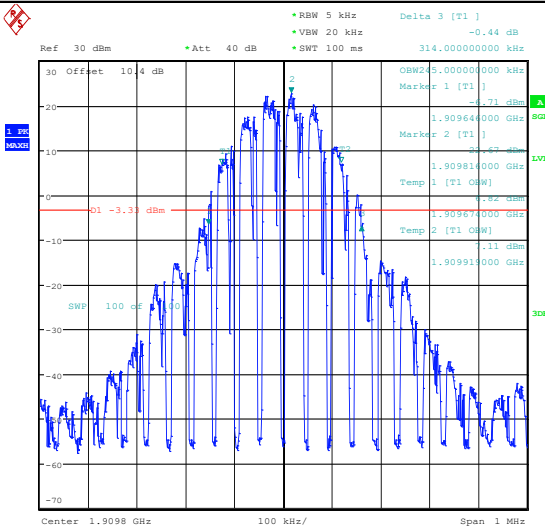
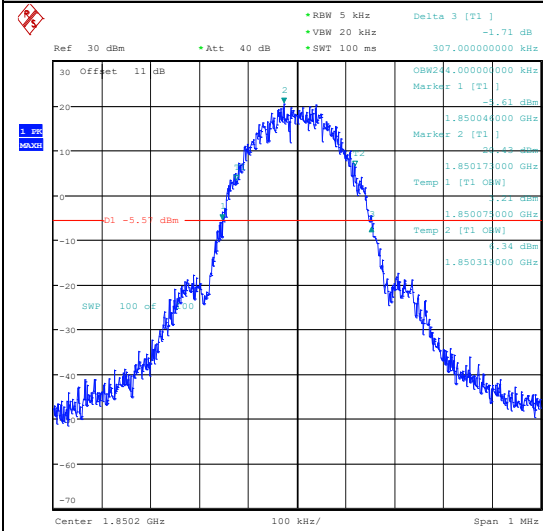


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GPRS1900-661-0-PASS

EGPRS1900-661-2-PASS

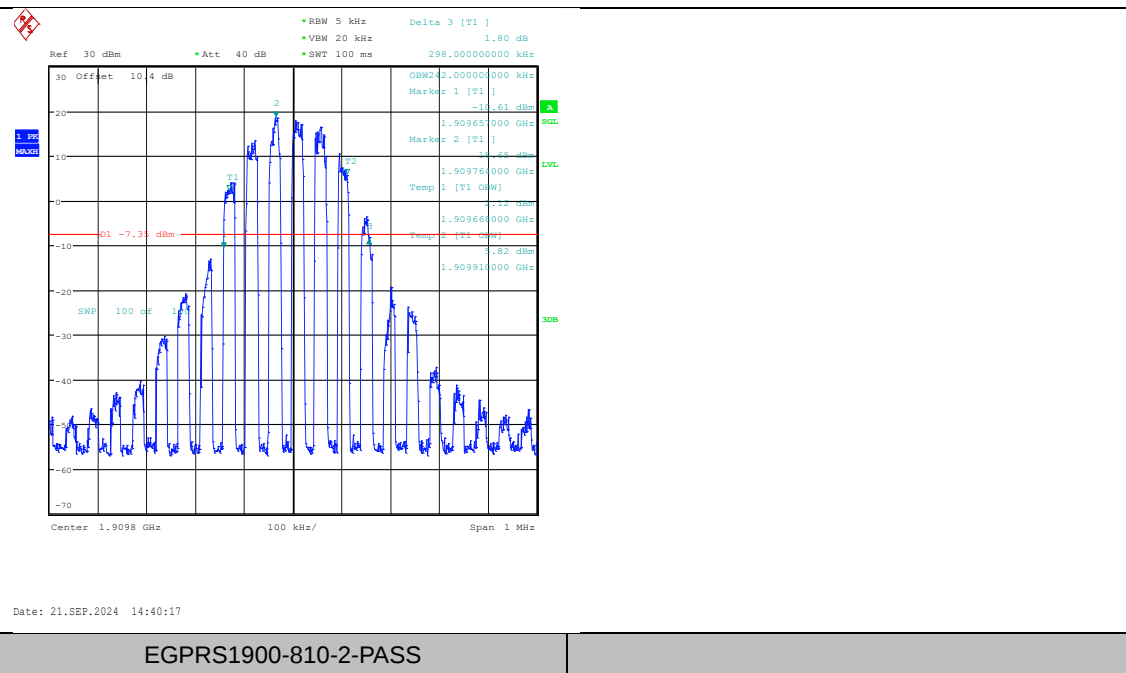


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GSM1900-810-0-PASS

GPRS1900-810-0-PASS

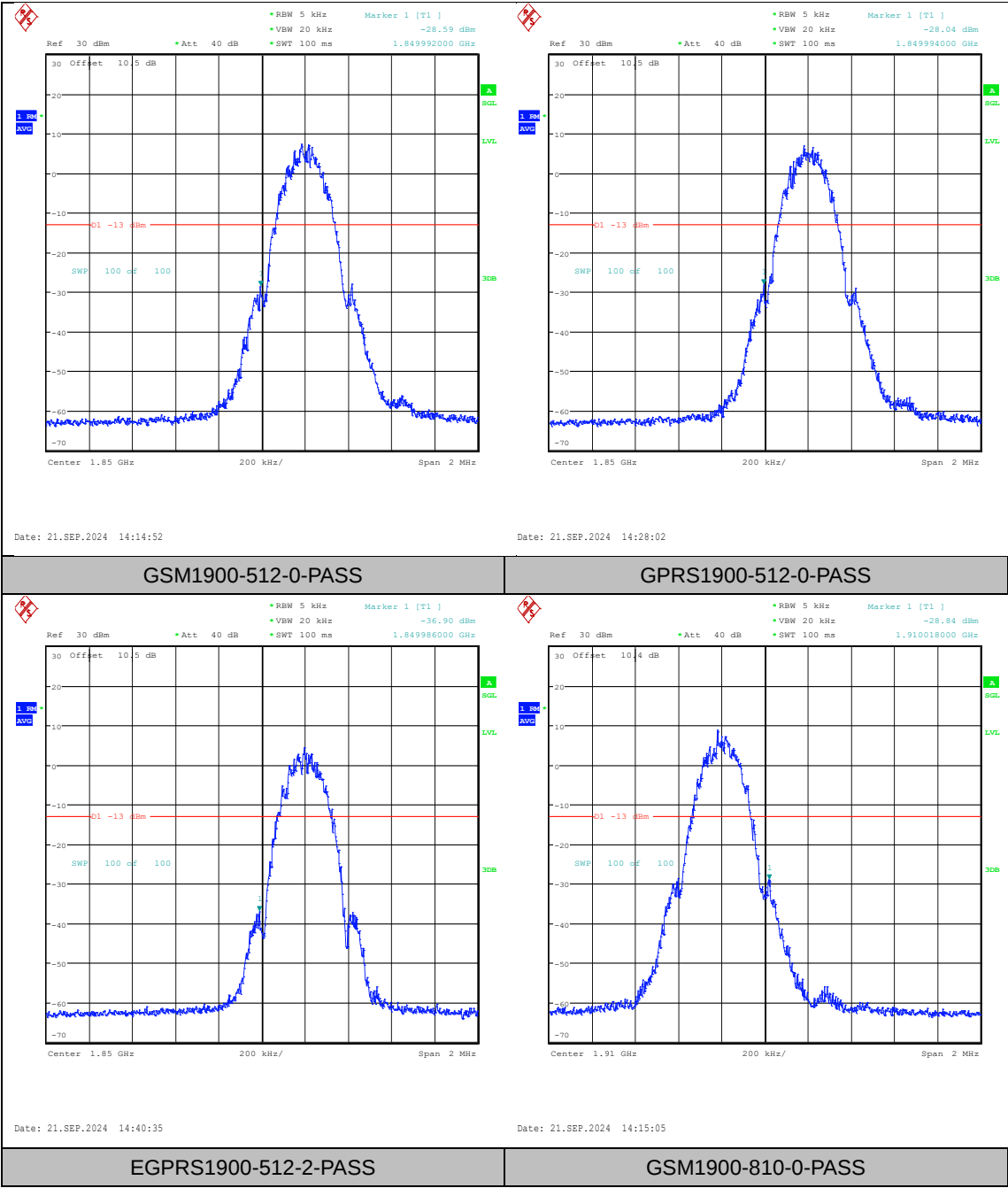


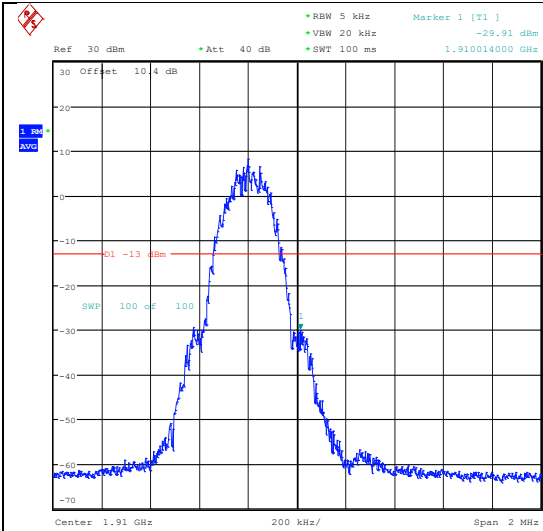
Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM1900	512	1849.99	-28.59	-13	PASS
GPRS1900	512	1849.99	-28.04	-13	PASS
EGPRS1900	512	1849.99	-36.90	-13	PASS
GSM1900	810	1910.02	-28.84	-13	PASS
GPRS1900	810	1910.01	-29.91	-13	PASS
EGPRS1900	810	1910.02	-36.78	-13	PASS

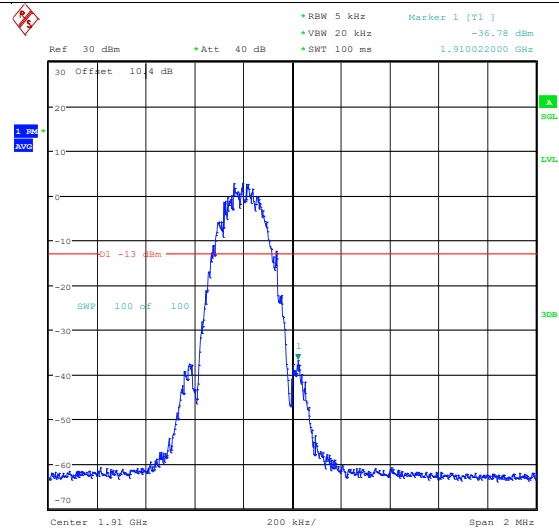
Test Graphs





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GPRS1900-810-0-PASS



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EGPRS1900-810-2-PASS

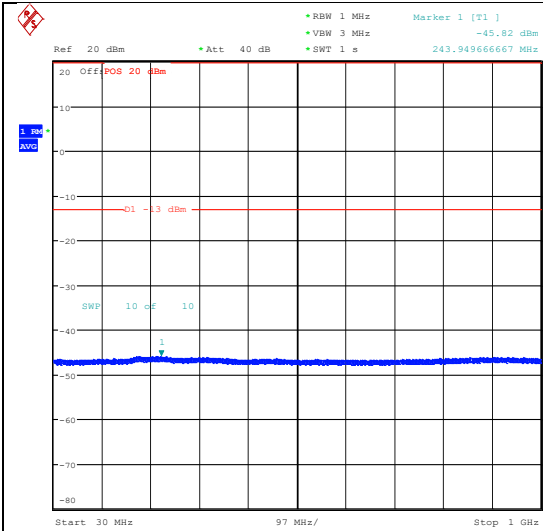
Appendix E: Conducted Spurious Emission

Test Result

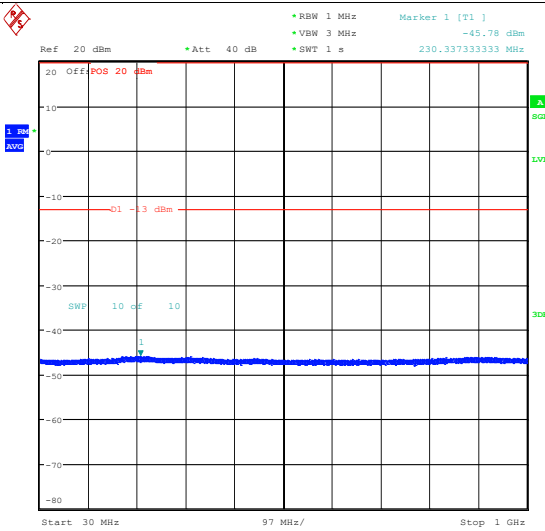
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM1900	512	0.009~0.15MHz	0.01	-46.63	-43	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-47.96	-43	PASS
GSM1900	512	0.15~30MHz	0.15	-51.86	-33	PASS
GPRS1900	512	0.15~30MHz	0.18	-52.91	-33	PASS
GSM1900	512	30~1000MHz	243.95	-45.82	-13	PASS
GPRS1900	512	30~1000MHz	230.34	-45.78	-13	PASS
GSM1900	512	1000~3000MHz	2519.53	-36.3	-13	PASS
GPRS1900	512	1000~3000MHz	2519.13	-36.3	-13	PASS
GSM1900	512	3000~18000MHz	3176	-46.09	-13	PASS
GPRS1900	512	3000~18000MHz	3174.5	-46.13	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.01	-48.62	-43	PASS
EGPRS1900	512	0.15~30MHz	0.16	-52.91	-33	PASS
EGPRS1900	512	30~1000MHz	199.59	-45.78	-13	PASS
EGPRS1900	512	1000~3000MHz	2490.07	-36.24	-13	PASS
EGPRS1900	512	3000~18000MHz	3172.5	-46.39	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-47.32	-43	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-48.28	-43	PASS
GSM1900	661	0.15~30MHz	0.19	-52.06	-33	PASS
GPRS1900	661	0.15~30MHz	0.16	-52	-33	PASS
GSM1900	661	30~1000MHz	201.82	-45.7	-13	PASS
GPRS1900	661	30~1000MHz	203.05	-45.79	-13	PASS
GSM1900	661	1000~3000MHz	2497.33	-36.32	-13	PASS
GPRS1900	661	1000~3000MHz	2505.73	-36.39	-13	PASS
GSM1900	661	3000~18000MHz	3178.5	-46.89	-13	PASS
GPRS1900	661	3000~18000MHz	3176	-45.98	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.01	-47.84	-43	PASS
EGPRS1900	661	0.15~30MHz	0.15	-52.51	-33	PASS
EGPRS1900	661	30~1000MHz	206.83	-45.82	-13	PASS
EGPRS1900	661	1000~3000MHz	2456.2	-36.22	-13	PASS
EGPRS1900	661	3000~18000MHz	3186	-46.35	-13	PASS
GSM1900	810	0.009~0.15MHz	0.01	-45.68	-43	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-47.58	-43	PASS
GSM1900	810	0.15~30MHz	0.19	-52.21	-33	PASS
GPRS1900	810	0.15~30MHz	0.15	-51.92	-33	PASS
GSM1900	810	30~1000MHz	197.91	-45.86	-13	PASS
GPRS1900	810	30~1000MHz	196.94	-45.82	-13	PASS

GSM1900	810	1000~3000MHz	2483.87	-36.38	-13	PASS
GPRS1900	810	1000~3000MHz	2531.4	-36.44	-13	PASS
GSM1900	810	3000~18000MHz	3179	-46.74	-13	PASS
GPRS1900	810	3000~18000MHz	3177	-46.19	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.01	-47.11	-43	PASS
EGPRS1900	810	0.15~30MHz	0.15	-52.27	-33	PASS
EGPRS1900	810	30~1000MHz	202.89	-45.77	-13	PASS
EGPRS1900	810	1000~3000MHz	2514.6	-36.32	-13	PASS
EGPRS1900	810	3000~18000MHz	3175	-45.68	-13	PASS

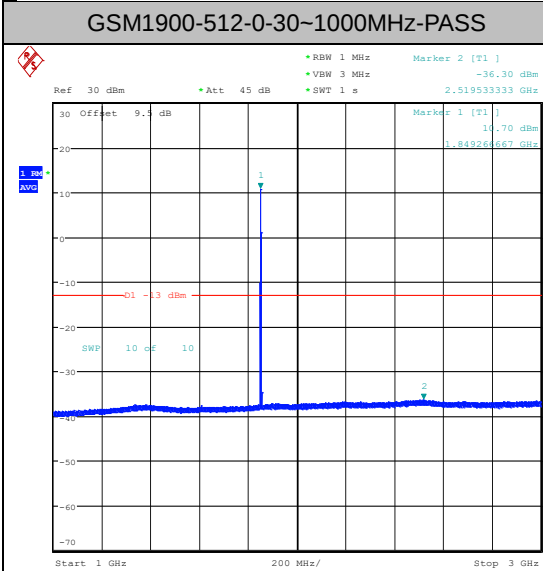
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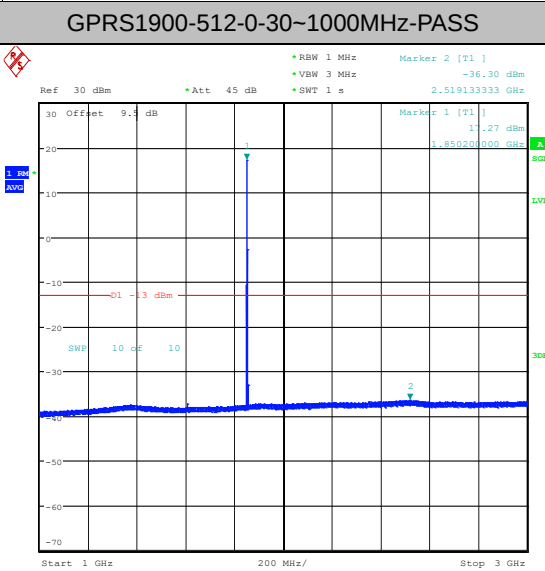
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Date: 21.SEP.2024 14:29:02



Date: 21.SEP.2024 14:16:11



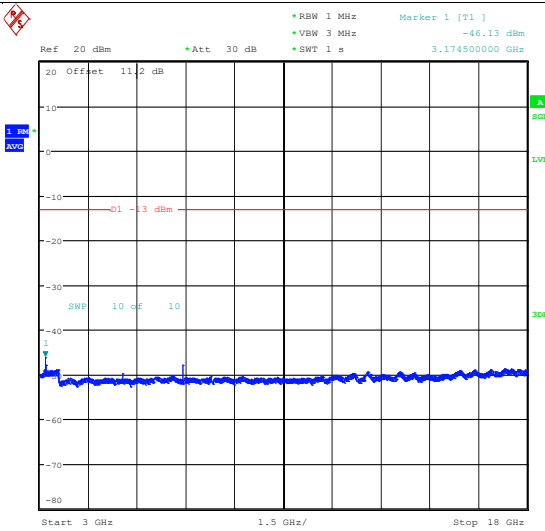
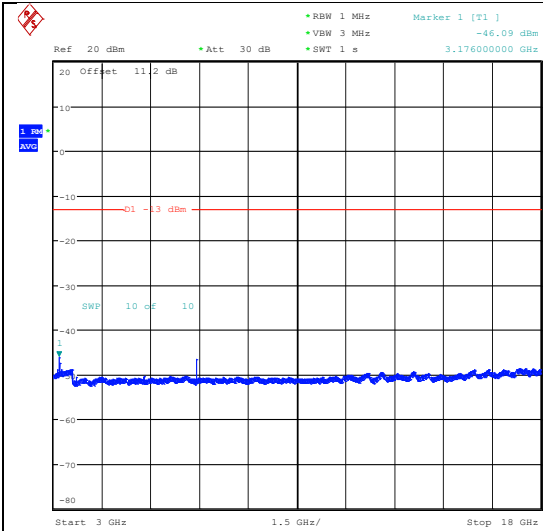
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GSM1900-512-0-30~1000MHz-PASS

GPRS1900-512-0-30~1000MHz-PASS

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

GPRS1900-512-0-1000~3000MHz-PASS

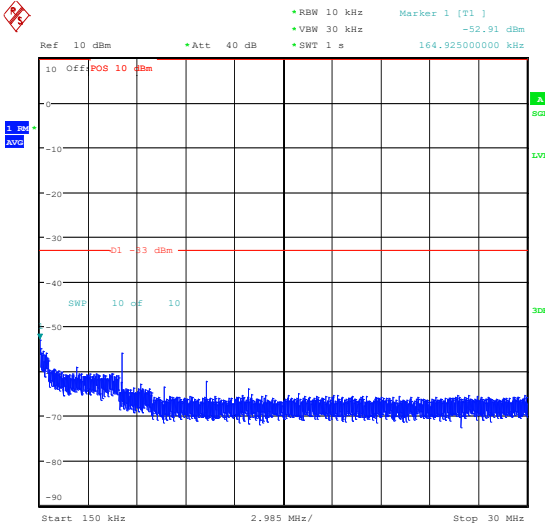
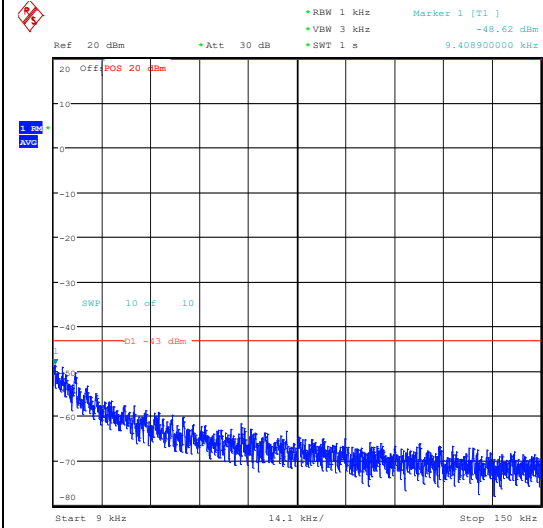


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Date: 21.SEP.2024 14:29:32

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

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

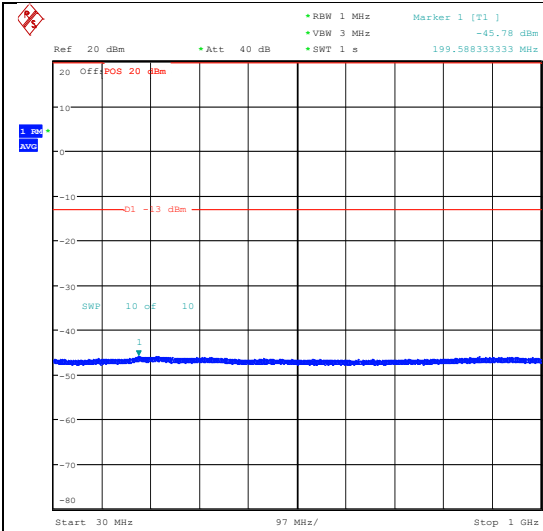


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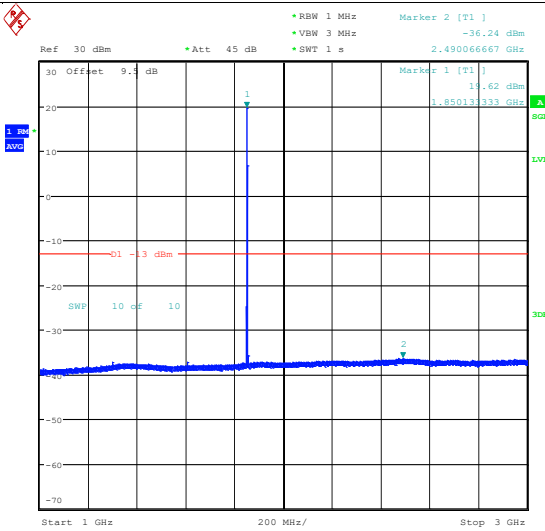
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EGPRS1900-512-2-0.009~0.15MHz-PASS

EGPRS1900-512-2-0.15~30MHz-PASS



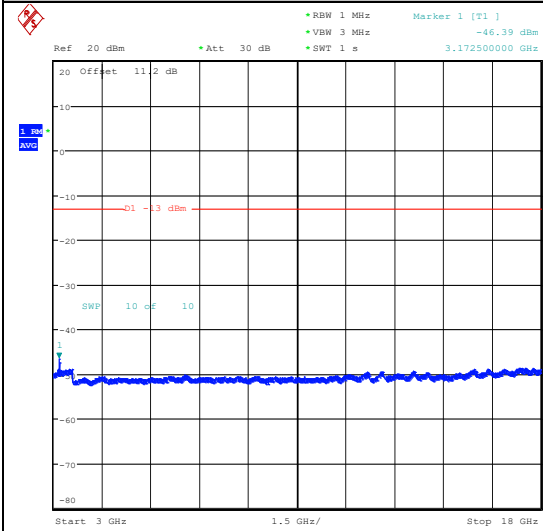
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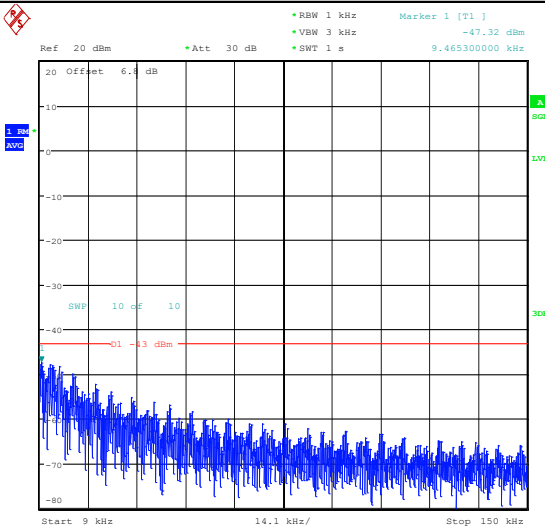
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EGPRS1900-512-2-30~1000MHz-PASS

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



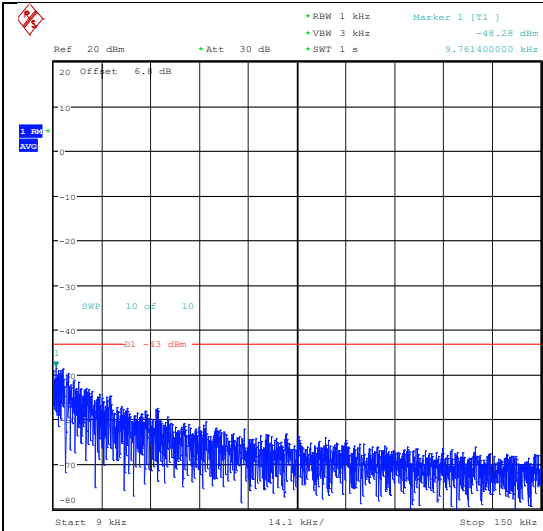
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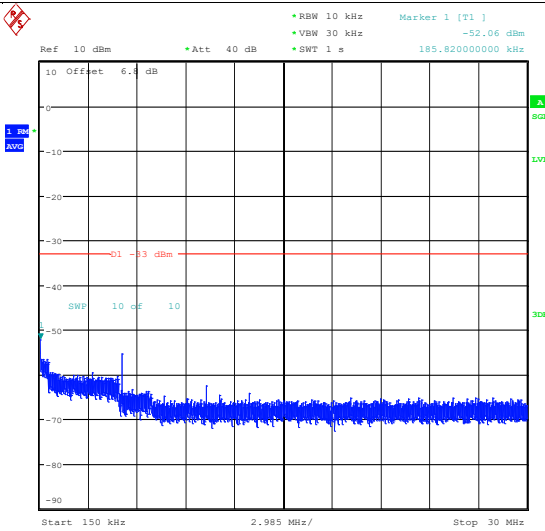
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EGPRS1900-512-2-3000~18000MHz-PASS

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



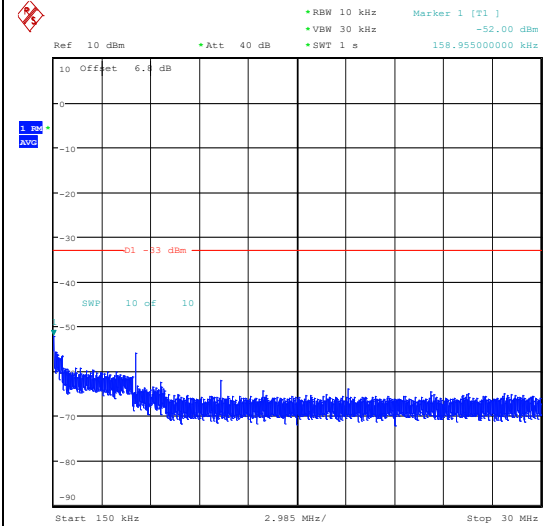
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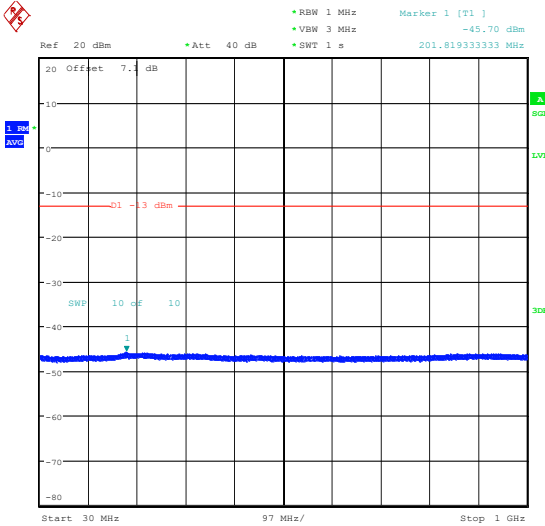
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GPRS1900-661-0-0.009~0.15MHz-PASS

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



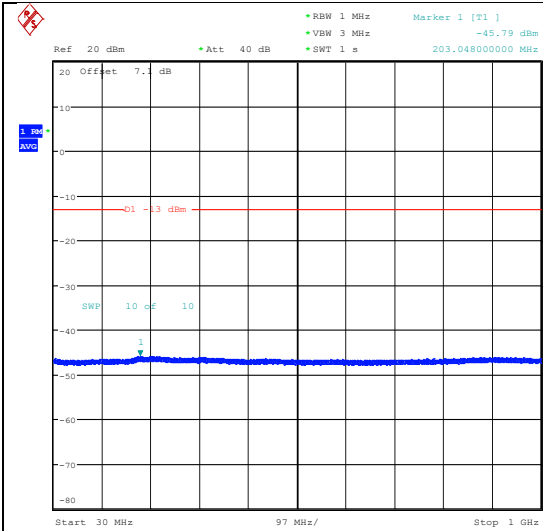
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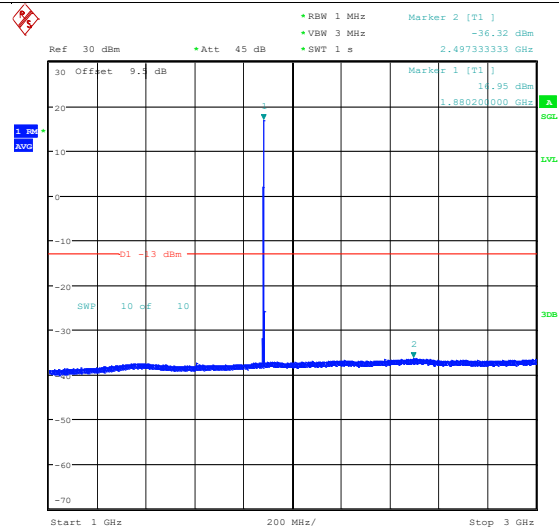
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GPRS1900-661-0-0.15~30MHz-PASS

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



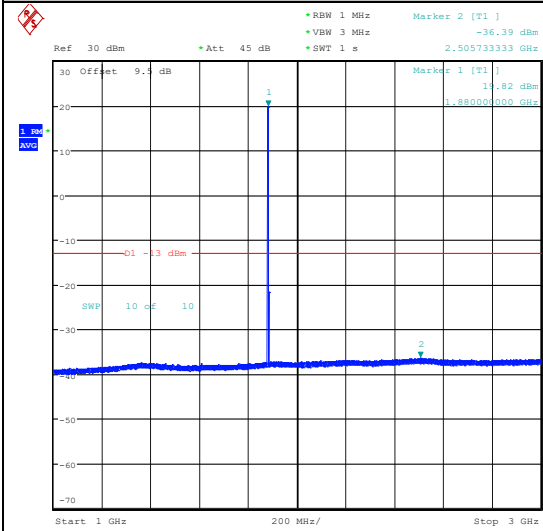
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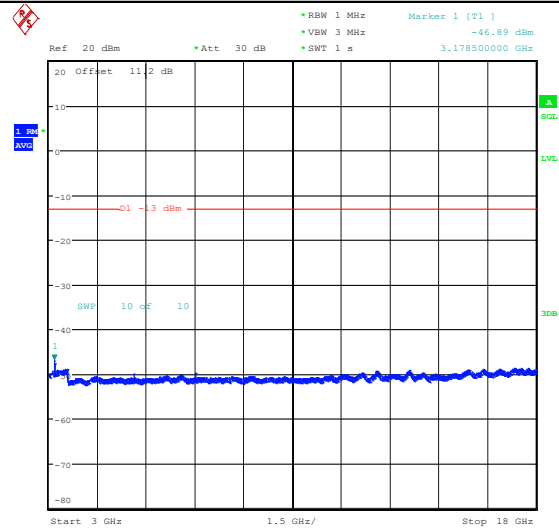
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GPRS1900-661-0-30~1000MHz-PASS

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



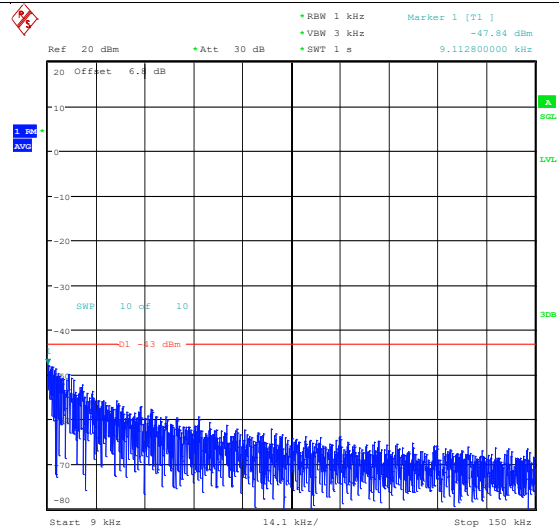
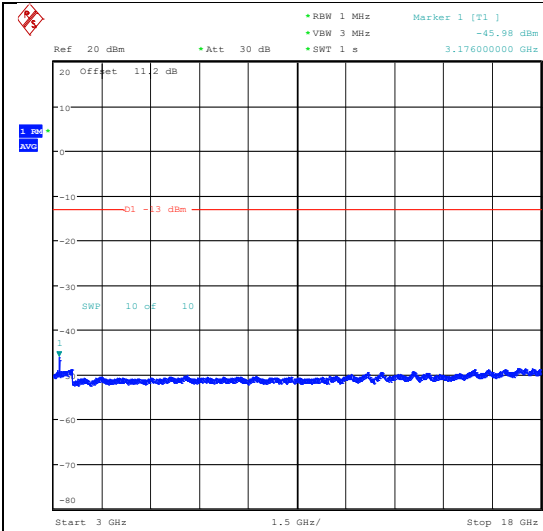
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Date: 21.SEP.2024 14:17:45

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

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

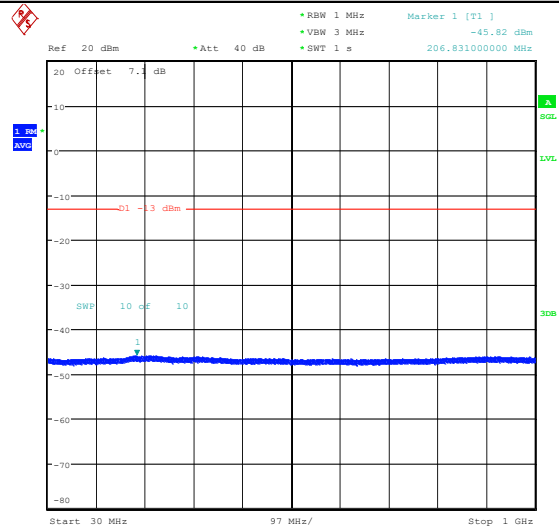
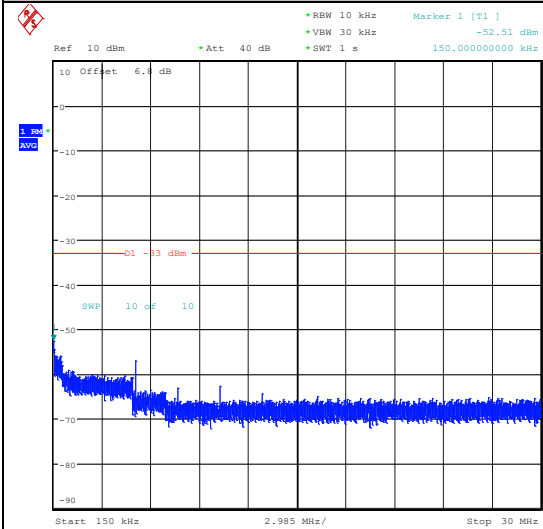


Date: 21.SEP.2024 14:30:47

Date: 21.SEP.2024 14:42:18

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

EGPRS1900-661-2-0.009~0.15MHz-PASS

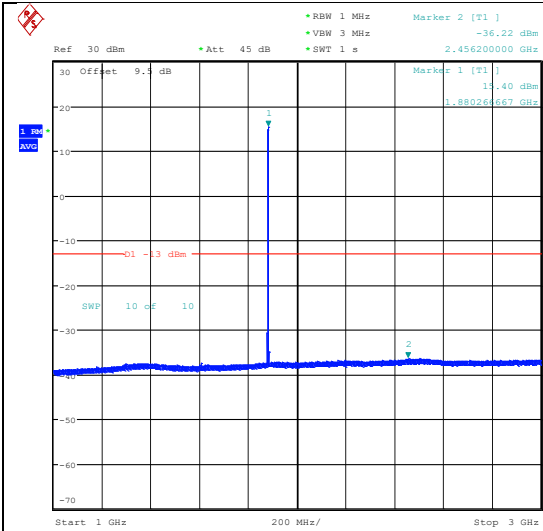


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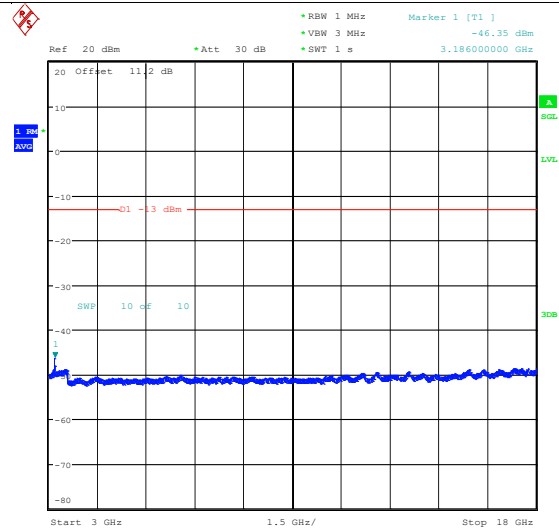
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EGPRS1900-661-2-0.15~30MHz-PASS

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

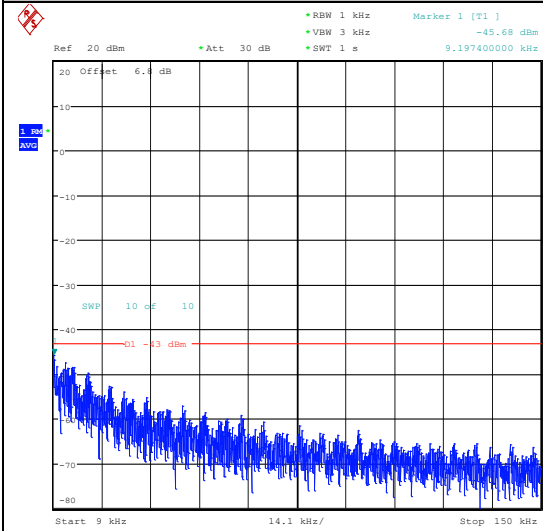


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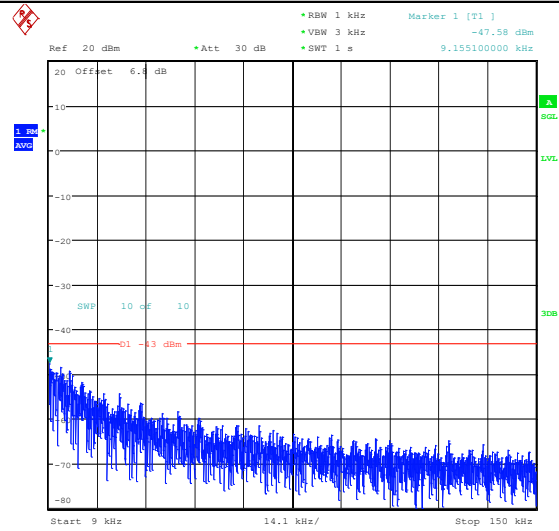


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EGPRS1900-661-2-1000-3000MHz-PASS EGPRS1900-661-2-3000-18000MHz-PASS



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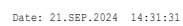


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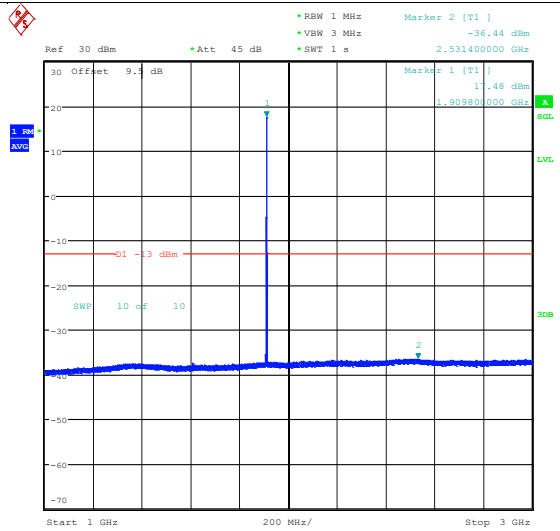
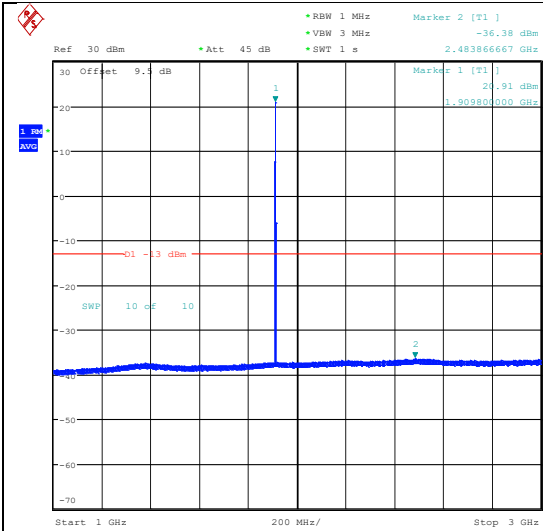
GSM1900-810-0-0.009-0.15MHz-PASS GPRS1900-810-0-0.009-0.15MHz-PASS



GPRS1900-810-0-0.15~30MHz-PASS



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

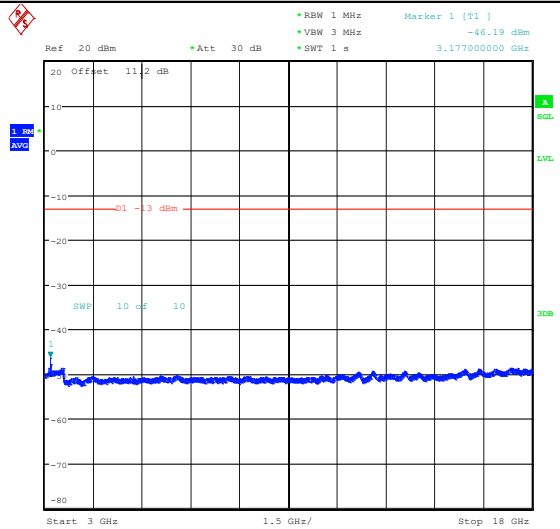
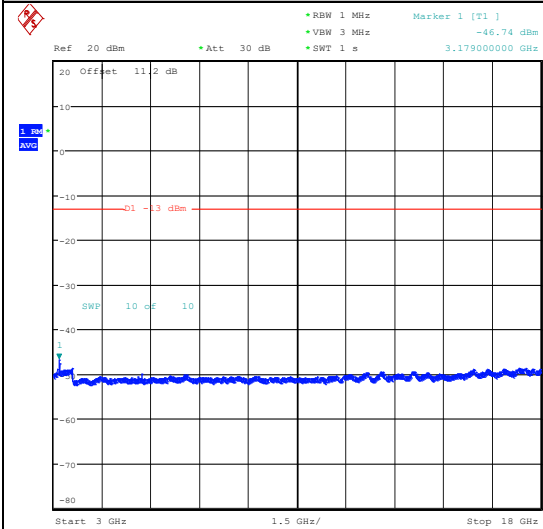


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Date: 21.SEP.2024 14:31:46

GSM1900-810-0-1000~3000MHz-PASS

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

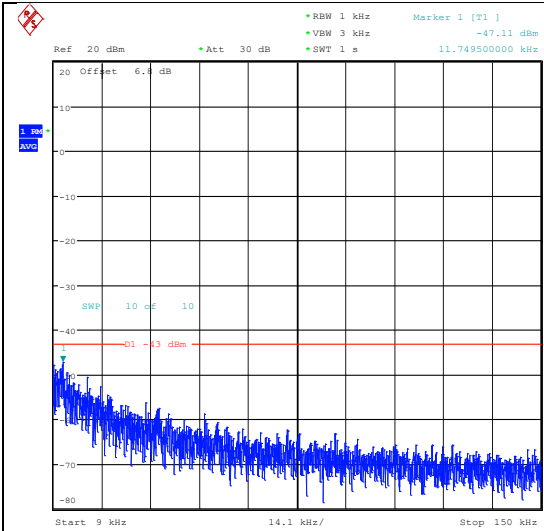


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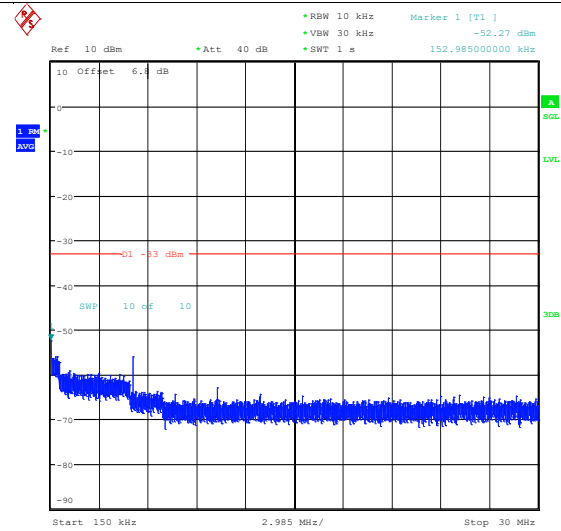
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GSM1900-810-0-3000~18000MHz-PASS

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

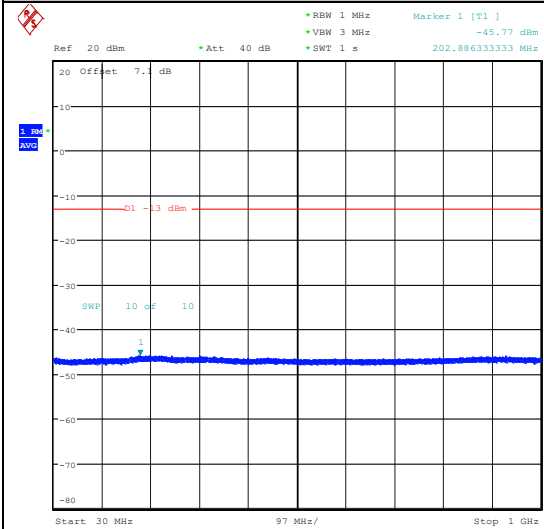


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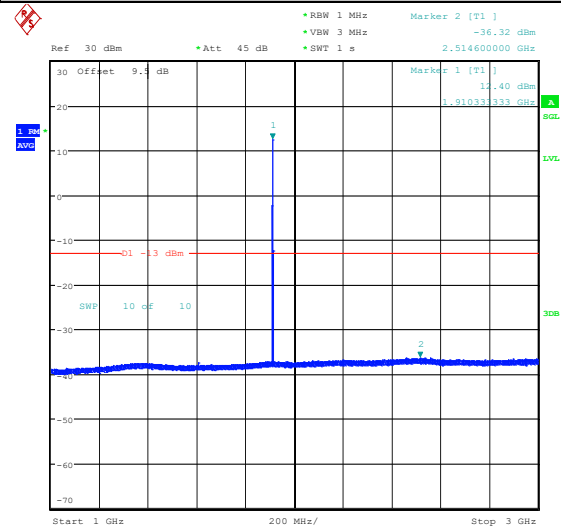


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EGPRS1900-810-2-0.009~0.15MHz-PASS	EGPRS1900-810-2-0.15~30MHz-PASS
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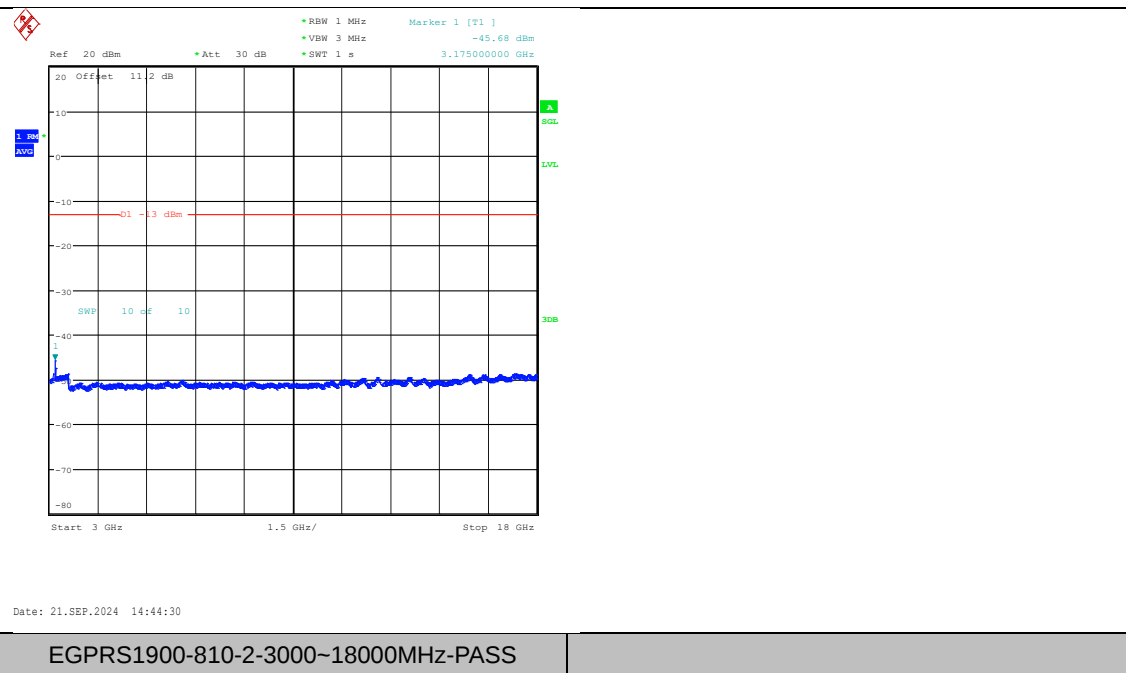


Date: 21.SEP.2024 14:44:01



Date: 21.SEP.2024 14:44:15

EGPRS1900-810-2-30~1000MHz-PASS	EGPRS1900-810-2-1000~3000MHz-PASS
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Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	VN	NT	-3.16	-0.001708	±2.5	PASS
GSM1900	512	VL	NT	-2.81	-0.001519	±2.5	PASS
GSM1900	512	VH	NT	-7.07	-0.003821	±2.5	PASS
GPRS1900	512	VN	NT	-1.13	-0.000611	±2.5	PASS
GPRS1900	512	VL	NT	-2.87	-0.001551	±2.5	PASS
GPRS1900	512	VH	NT	-7.68	-0.004151	±2.5	PASS
EGPRS1900	512	VN	NT	-4.29	-0.002319	±2.5	PASS
EGPRS1900	512	VL	NT	-7.46	-0.004032	±2.5	PASS
EGPRS1900	512	VH	NT	-3.78	-0.002043	±2.5	PASS
GSM1900	661	VN	NT	-2.36	-0.001255	±2.5	PASS
GSM1900	661	VL	NT	-0.26	-0.000138	±2.5	PASS
GSM1900	661	VH	NT	-4.20	-0.002234	±2.5	PASS
GPRS1900	661	VN	NT	-5.17	-0.002750	±2.5	PASS
GPRS1900	661	VL	NT	-6.49	-0.003452	±2.5	PASS
GPRS1900	661	VH	NT	-5.81	-0.003090	±2.5	PASS
EGPRS1900	661	VN	NT	-7.91	-0.004207	±2.5	PASS
EGPRS1900	661	VL	NT	-11.82	-0.006287	±2.5	PASS
EGPRS1900	661	VH	NT	-5.42	-0.002883	±2.5	PASS
GSM1900	810	VN	NT	-7.17	-0.003754	±2.5	PASS
GSM1900	810	VL	NT	-3.39	-0.001775	±2.5	PASS
GSM1900	810	VH	NT	-5.23	-0.002739	±2.5	PASS
GPRS1900	810	VN	NT	-4.26	-0.002231	±2.5	PASS
GPRS1900	810	VL	NT	-4.94	-0.002587	±2.5	PASS
GPRS1900	810	VH	NT	-6.88	-0.003602	±2.5	PASS
EGPRS1900	810	VN	NT	-7.39	-0.003870	±2.5	PASS
EGPRS1900	810	VL	NT	-13.30	-0.006964	±2.5	PASS
EGPRS1900	810	VH	NT	-3.58	-0.001875	±2.5	PASS

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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	NV	-30	-2.42	-0.001308	±2.5	PASS
GSM1900	512	NV	-20	-3.65	-0.001973	±2.5	PASS
GSM1900	512	NV	-10	-11.66	-0.006302	±2.5	PASS
GSM1900	512	NV	0	-11.30	-0.006107	±2.5	PASS
GSM1900	512	NV	10	-11.62	-0.006280	±2.5	PASS
GSM1900	512	NV	20	-13.46	-0.007275	±2.5	PASS
GSM1900	512	NV	30	-15.34	-0.008291	±2.5	PASS
GSM1900	512	NV	40	-9.27	-0.005010	±2.5	PASS
GSM1900	512	NV	50	-8.75	-0.004729	±2.5	PASS
GPRS1900	512	NV	-30	-4.33	-0.002340	±2.5	PASS
GPRS1900	512	NV	-20	-6.72	-0.003632	±2.5	PASS
GPRS1900	512	NV	-10	-6.10	-0.003297	±2.5	PASS
GPRS1900	512	NV	0	-6.49	-0.003508	±2.5	PASS
GPRS1900	512	NV	10	-5.23	-0.002827	±2.5	PASS
GPRS1900	512	NV	20	-9.36	-0.005059	±2.5	PASS
GPRS1900	512	NV	30	-8.88	-0.004799	±2.5	PASS
GPRS1900	512	NV	40	-9.14	-0.004940	±2.5	PASS
GPRS1900	512	NV	50	-3.07	-0.001659	±2.5	PASS
EGPRS1900	512	NV	-30	-5.29	-0.002859	±2.5	PASS
EGPRS1900	512	NV	-20	-2.29	-0.001238	±2.5	PASS
EGPRS1900	512	NV	-10	-5.07	-0.002740	±2.5	PASS
EGPRS1900	512	NV	0	-8.30	-0.004486	±2.5	PASS
EGPRS1900	512	NV	10	-8.43	-0.004556	±2.5	PASS
EGPRS1900	512	NV	20	-1.55	-0.000838	±2.5	PASS
EGPRS1900	512	NV	30	-3.42	-0.001848	±2.5	PASS
EGPRS1900	512	NV	40	5.84	0.003156	±2.5	PASS
EGPRS1900	512	NV	50	1.52	0.000822	±2.5	PASS
GSM1900	661	NV	-30	-5.26	-0.002798	±2.5	PASS

GSM1900	661	NV	-20	-3.20	-0.001702	±2.5	PASS
GSM1900	661	NV	-10	-3.36	-0.001787	±2.5	PASS
GSM1900	661	NV	0	-1.49	-0.000793	±2.5	PASS
GSM1900	661	NV	10	-9.94	-0.005287	±2.5	PASS
GSM1900	661	NV	20	-6.26	-0.003330	±2.5	PASS
GSM1900	661	NV	30	-2.68	-0.001426	±2.5	PASS
GSM1900	661	NV	40	-13.08	-0.006957	±2.5	PASS
GSM1900	661	NV	50	-9.30	-0.004947	±2.5	PASS
GPRS1900	661	NV	-30	-6.55	-0.003484	±2.5	PASS
GPRS1900	661	NV	-20	-3.52	-0.001872	±2.5	PASS
GPRS1900	661	NV	-10	-8.78	-0.004670	±2.5	PASS
GPRS1900	661	NV	0	-4.04	-0.002149	±2.5	PASS
GPRS1900	661	NV	10	-7.91	-0.004207	±2.5	PASS
GPRS1900	661	NV	20	-4.20	-0.002234	±2.5	PASS
GPRS1900	661	NV	30	-8.30	-0.004415	±2.5	PASS
GPRS1900	661	NV	40	0.45	0.000239	±2.5	PASS
GPRS1900	661	NV	50	1.49	0.000793	±2.5	PASS
EGPRS1900	661	NV	-30	-5.49	-0.002920	±2.5	PASS
EGPRS1900	661	NV	-20	-5.10	-0.002713	±2.5	PASS
EGPRS1900	661	NV	-10	-5.46	-0.002904	±2.5	PASS
EGPRS1900	661	NV	0	-6.17	-0.003282	±2.5	PASS
EGPRS1900	661	NV	10	-5.23	-0.002782	±2.5	PASS
EGPRS1900	661	NV	20	-9.85	-0.005239	±2.5	PASS
EGPRS1900	661	NV	30	-4.75	-0.002527	±2.5	PASS
EGPRS1900	661	NV	40	-0.94	-0.000500	±2.5	PASS
EGPRS1900	661	NV	50	-8.52	-0.004532	±2.5	PASS
GSM1900	810	NV	-30	-6.49	-0.003398	±2.5	PASS
GSM1900	810	NV	-20	-5.59	-0.002927	±2.5	PASS
GSM1900	810	NV	-10	-1.71	-0.000895	±2.5	PASS
GSM1900	810	NV	0	-3.78	-0.001979	±2.5	PASS
GSM1900	810	NV	10	-7.72	-0.004042	±2.5	PASS
GSM1900	810	NV	20	-7.46	-0.003906	±2.5	PASS
GSM1900	810	NV	30	-14.04	-0.007352	±2.5	PASS

GSM1900	810	NV	40	-11.30	-0.005917	±2.5	PASS
GSM1900	810	NV	50	-1.55	-0.000812	±2.5	PASS
GPRS1900	810	NV	-30	-3.26	-0.001707	±2.5	PASS
GPRS1900	810	NV	-20	-5.33	-0.002791	±2.5	PASS
GPRS1900	810	NV	-10	-5.84	-0.003058	±2.5	PASS
GPRS1900	810	NV	0	-3.91	-0.002047	±2.5	PASS
GPRS1900	810	NV	10	-8.36	-0.004377	±2.5	PASS
GPRS1900	810	NV	20	-8.59	-0.004498	±2.5	PASS
GPRS1900	810	NV	30	-5.00	-0.002618	±2.5	PASS
GPRS1900	810	NV	40	-1.87	-0.000979	±2.5	PASS
GPRS1900	810	NV	50	-3.23	-0.001691	±2.5	PASS
EGPRS1900	810	NV	-30	-11.11	-0.005817	±2.5	PASS
EGPRS1900	810	NV	-20	-5.39	-0.002822	±2.5	PASS
EGPRS1900	810	NV	-10	-8.36	-0.004377	±2.5	PASS
EGPRS1900	810	NV	0	-6.10	-0.003194	±2.5	PASS
EGPRS1900	810	NV	10	-8.17	-0.004278	±2.5	PASS
EGPRS1900	810	NV	20	-8.98	-0.004702	±2.5	PASS
EGPRS1900	810	NV	30	-8.72	-0.004566	±2.5	PASS
EGPRS1900	810	NV	40	-2.91	-0.001524	±2.5	PASS
EGPRS1900	810	NV	50	-7.46	-0.003906	±2.5	PASS

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
GSM1900	512	PASS	PASS
GPRS1900	512	PASS	PASS
EGPRS1900	512	PASS	PASS
GSM1900	661	PASS	PASS
GPRS1900	661	PASS	PASS
EGPRS1900	661	PASS	PASS
GSM1900	810	PASS	PASS
GPRS1900	810	PASS	PASS
EGPRS1900	810	PASS	PASS

Test Graphs

