



Report No.: SEWM2309000386RG01

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Appendix B.1

GSM 850&1900



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**Effective (Isotropic) Radiated Power Output Data****Test Result**

ANT1

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.42	26.17	38.45	PASS
GSM850	190	32.31	26.06	38.45	PASS
GSM850	251	32.11	25.86	38.45	PASS

Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.27	20.02	38.45	PASS
EGPRS850	128	2	23.25	17	38.45	PASS
EGPRS850	128	3	21.68	15.43	38.45	PASS
EGPRS850	128	4	20.46	14.21	38.45	PASS
EGPRS850	190	1	26.19	19.94	38.45	PASS
EGPRS850	190	2	23.21	16.96	38.45	PASS
EGPRS850	190	3	21.37	15.12	38.45	PASS
EGPRS850	190	4	20.27	14.02	38.45	PASS
EGPRS850	251	1	25.91	19.66	38.45	PASS
EGPRS850	251	2	23.00	16.75	38.45	PASS
EGPRS850	251	3	21.31	15.06	38.45	PASS
EGPRS850	251	4	20.14	13.89	38.45	PASS



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ANT2

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	29.38	27.08	33.00	PASS
GSM1900	661	29.65	27.35	33.00	PASS
GSM1900	810	29.68	27.38	33.00	PASS

Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	25.95	23.65	33.00	PASS
EGPRS1900	512	2	22.49	20.19	33.00	PASS
EGPRS1900	512	3	21.06	18.76	33.00	PASS
EGPRS1900	512	4	19.42	17.12	33.00	PASS
EGPRS1900	661	1	25.15	22.85	33.00	PASS
EGPRS1900	661	2	22.46	20.16	33.00	PASS
EGPRS1900	661	3	20.81	18.51	33.00	PASS
EGPRS1900	661	4	19.32	17.02	33.00	PASS
EGPRS1900	810	1	24.76	22.46	33.00	PASS
EGPRS1900	810	2	22.33	20.03	33.00	PASS
EGPRS1900	810	3	20.60	18.3	33.00	PASS
EGPRS1900	810	4	19.13	16.83	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.52	13	PASS
GSM850	190	9.6	13	PASS
GSM850	251	9.52	13	PASS
EGPRS850	128	12.7	13	PASS
EGPRS850	190	12.74	13	PASS
EGPRS850	251	12.78	13	PASS
GSM1900	512	9.68	13	PASS
GSM1900	661	9.68	13	PASS
GSM1900	810	9.6	13	PASS
EGPRS1900	512	12.76	13	PASS
EGPRS1900	661	12.92	13	PASS
EGPRS1900	810	12.96	13	PASS



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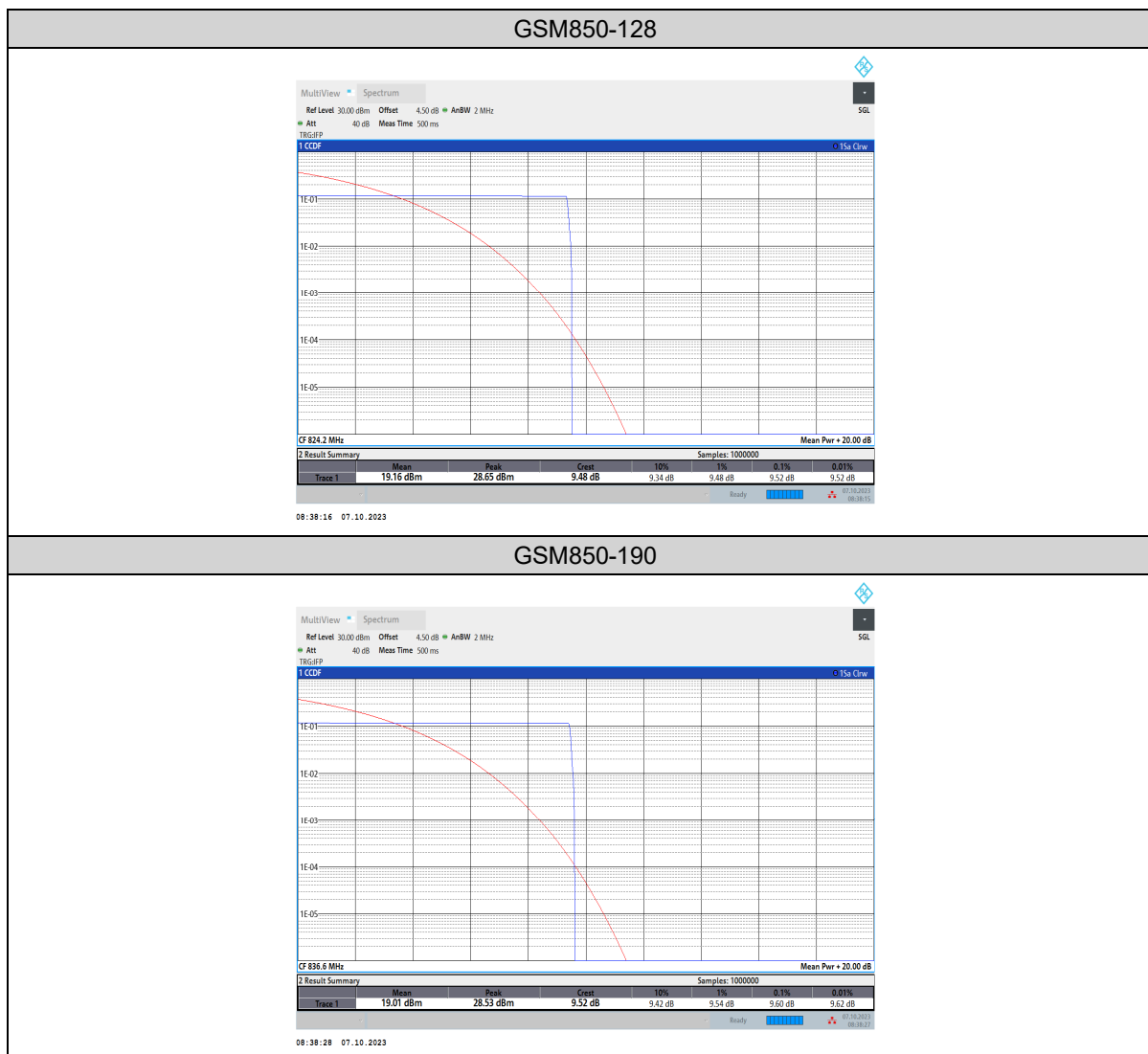
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Test Graphs



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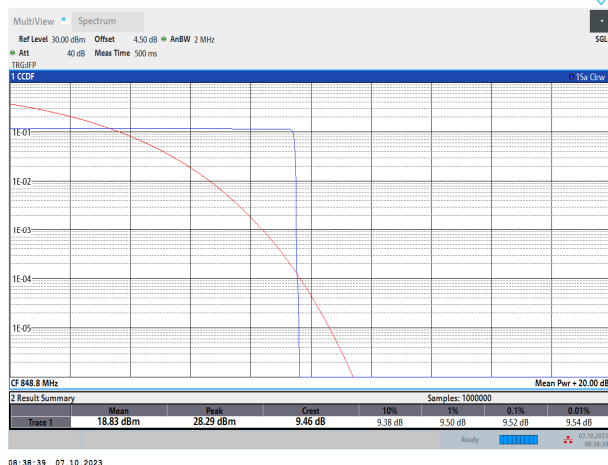


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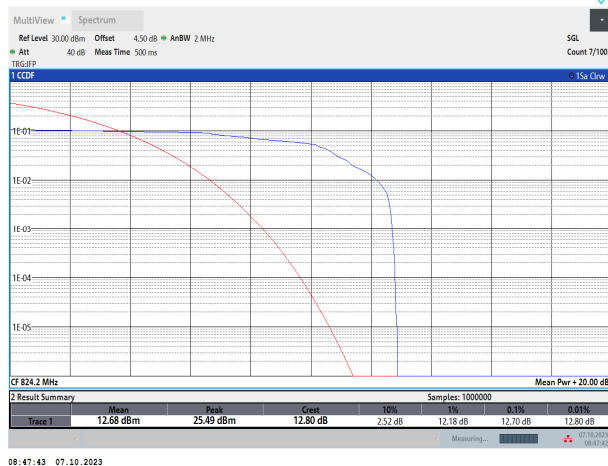
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GSM850-251



EGPRS850-128



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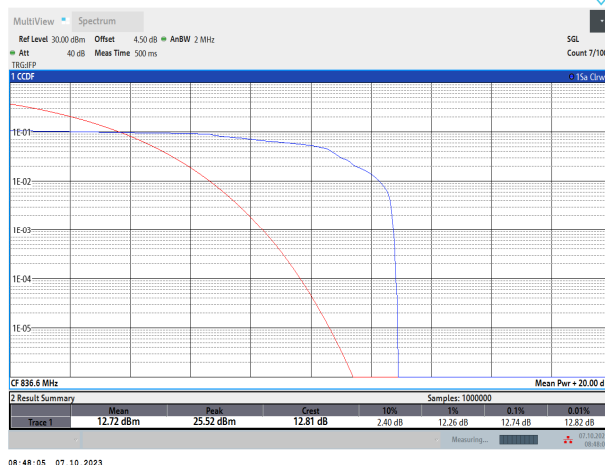


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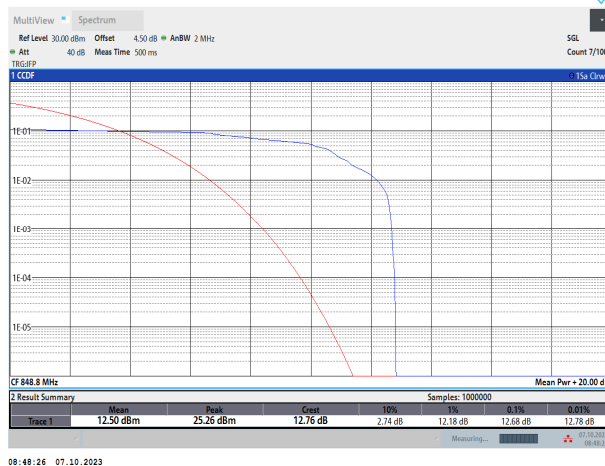
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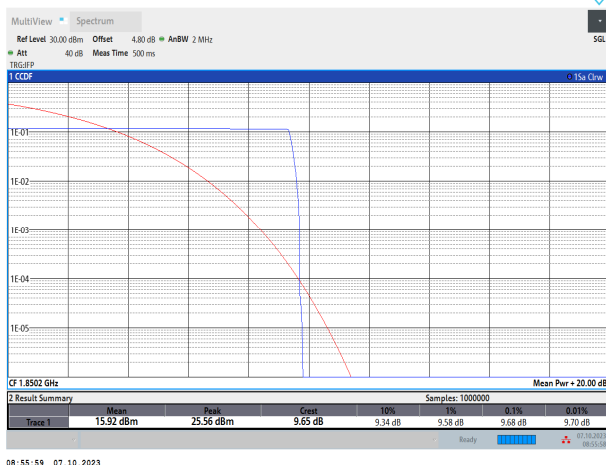


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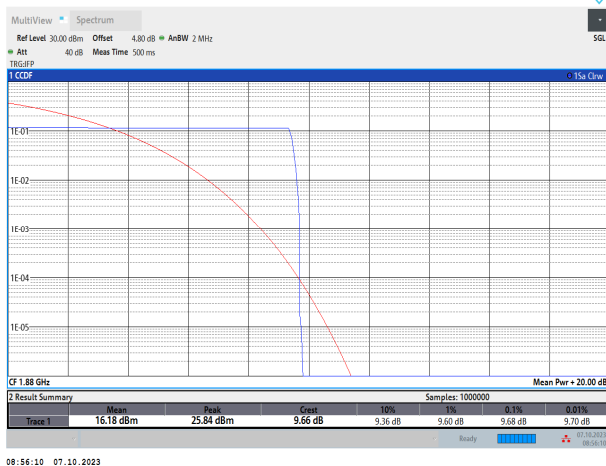
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GSM1900-512



GSM1900-661



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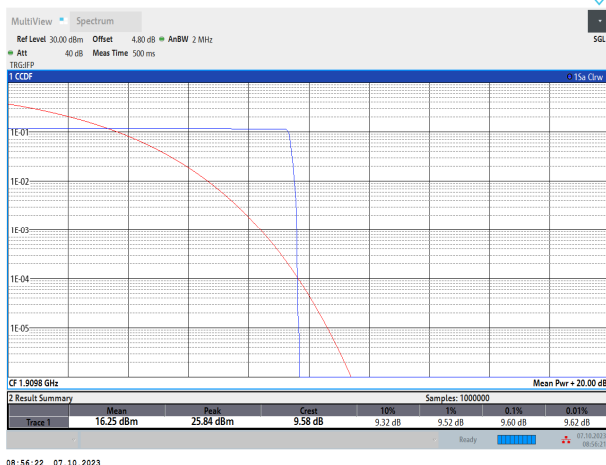


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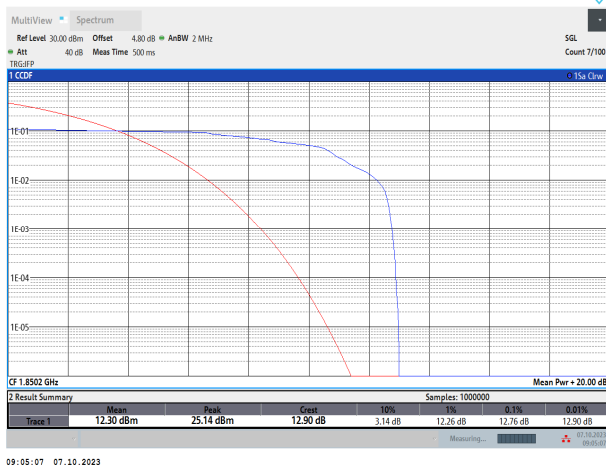
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GSM1900-810



EGPRS1900-512



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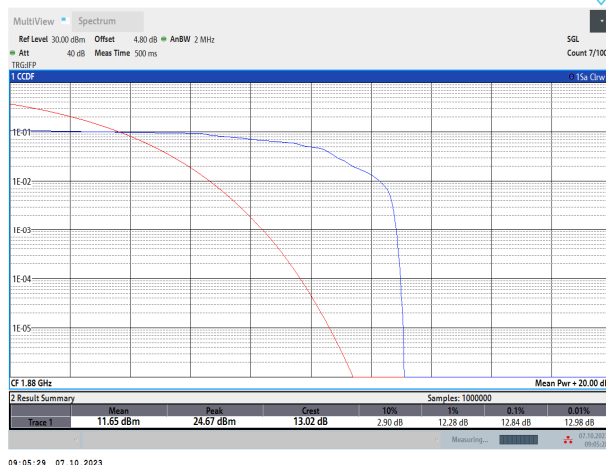
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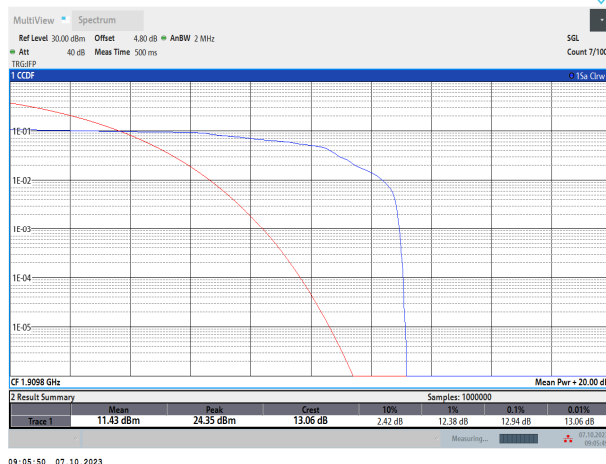
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EGPRS1900-661



EGPRS1900-810



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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	0.32	---	PASS
GSM850	251	0.245	0.32	---	PASS
EGPRS850	128	0.246	0.31	---	PASS
EGPRS850	190	0.245	0.31	---	PASS
EGPRS850	251	0.248	0.31	---	PASS
GSM1900	512	0.244	0.31	---	PASS
GSM1900	661	0.246	0.31	---	PASS
GSM1900	810	0.246	0.32	---	PASS
EGPRS1900	512	0.248	0.32	---	PASS
EGPRS1900	661	0.243	0.32	---	PASS
EGPRS1900	810	0.244	0.31	---	PASS



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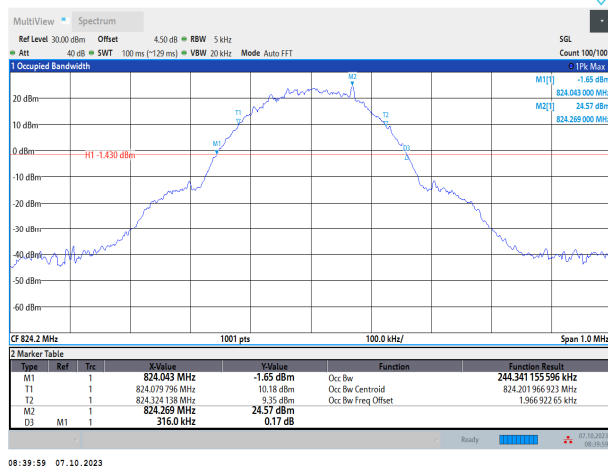
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Test Graphs

GSM850-128



GSM850-190

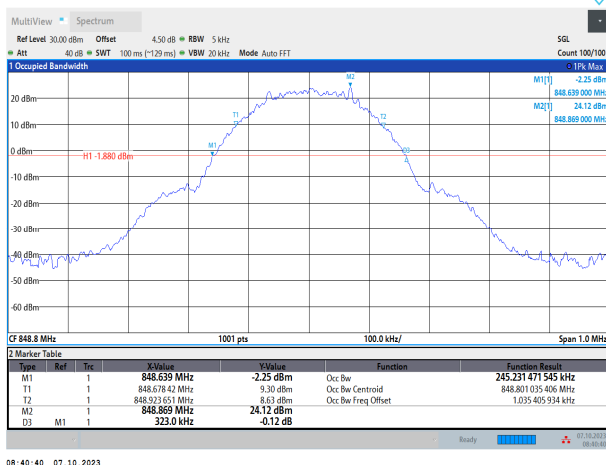


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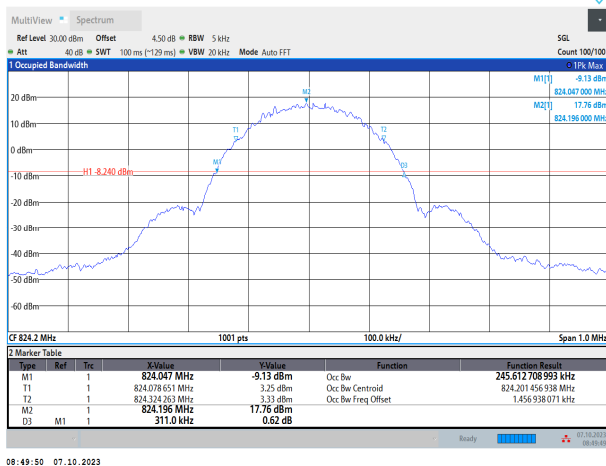
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GSM850-251



EGPRS850-128



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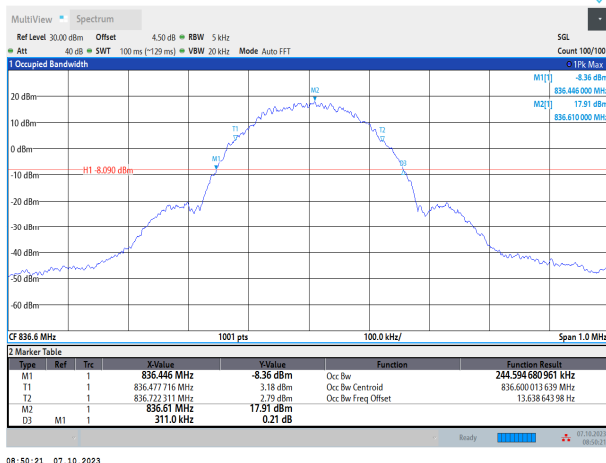


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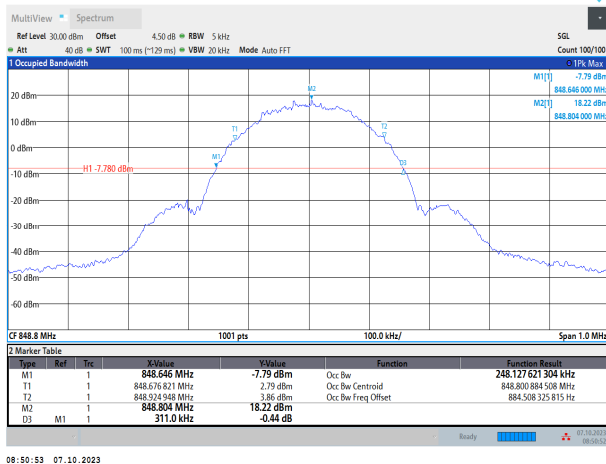
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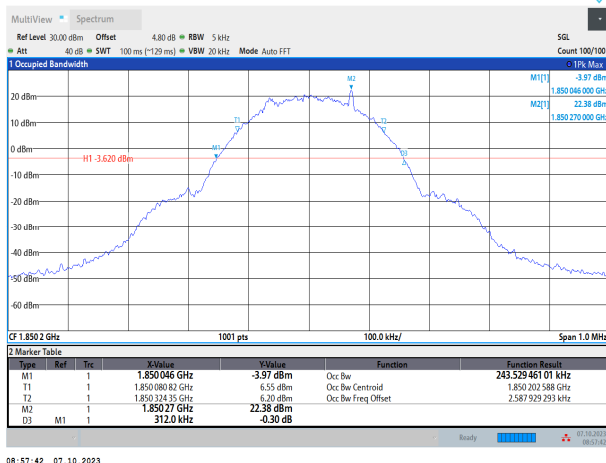


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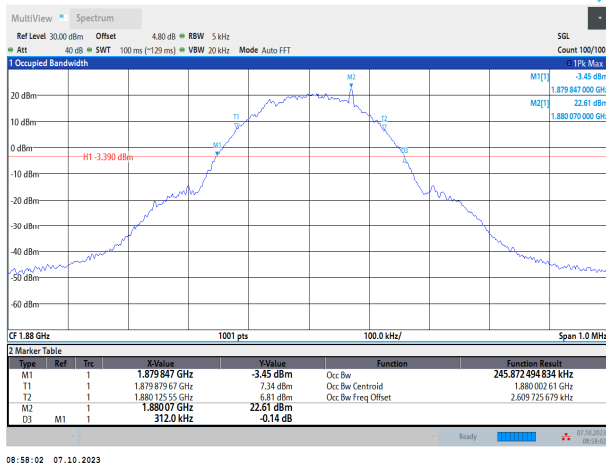
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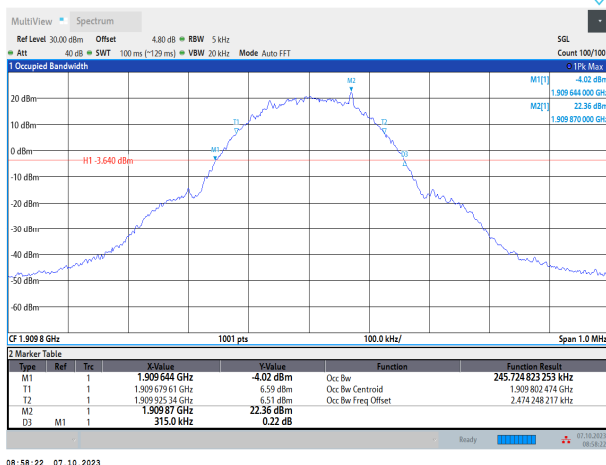


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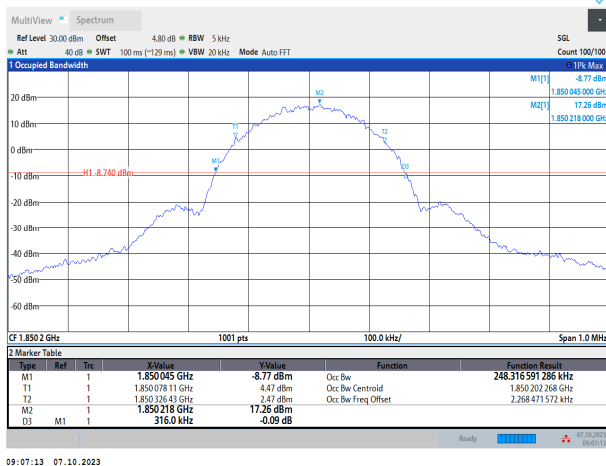
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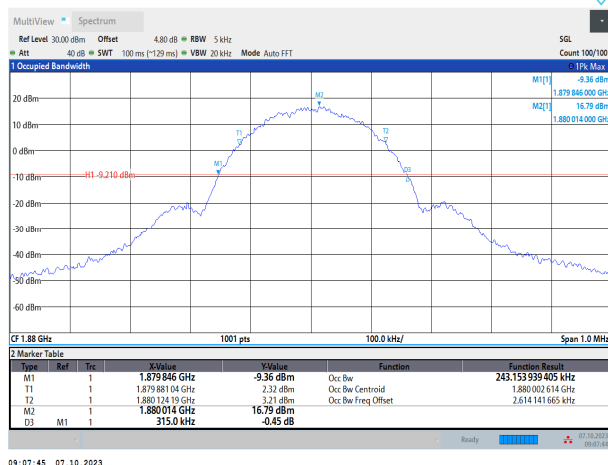


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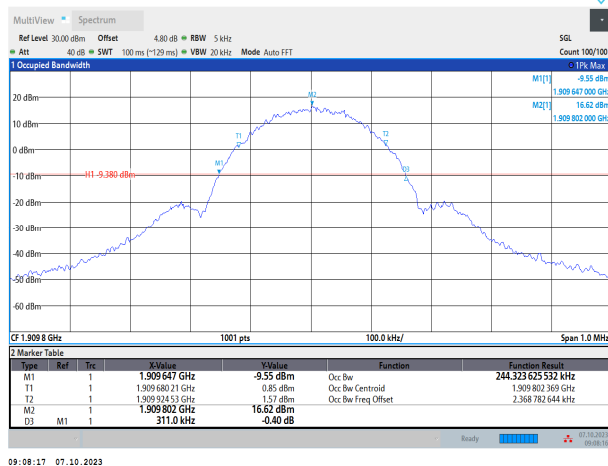
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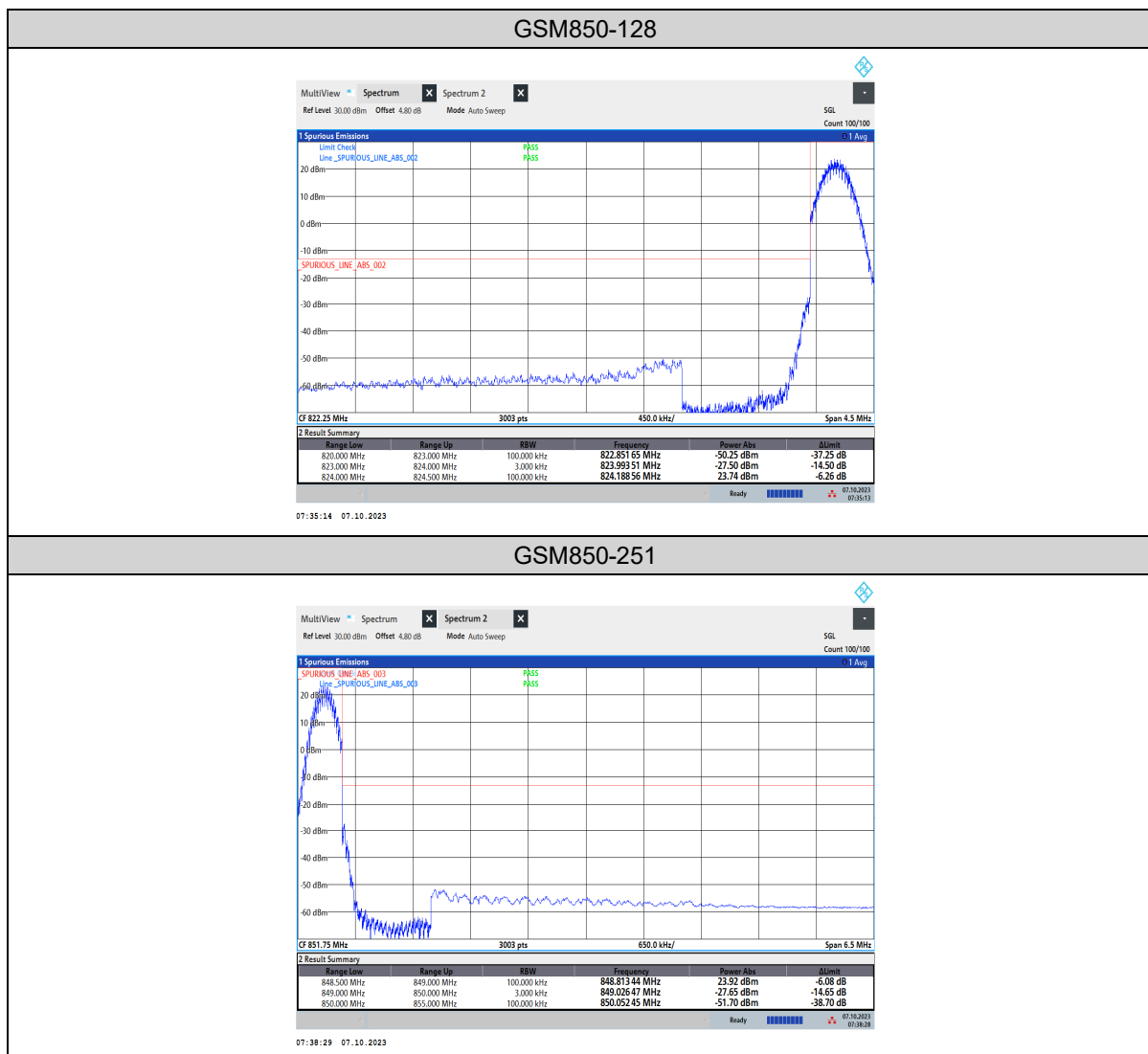
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Band Edge

Test Graphs



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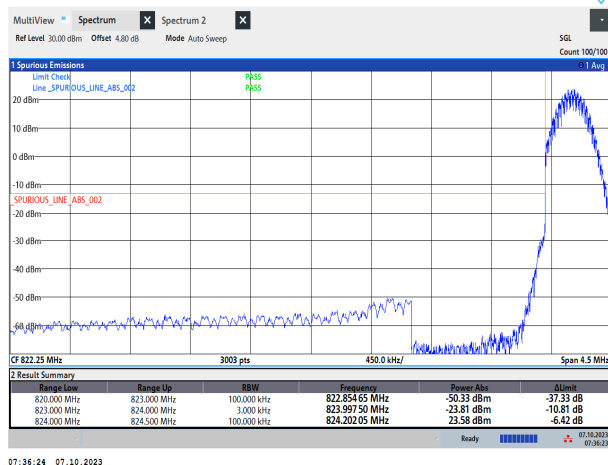
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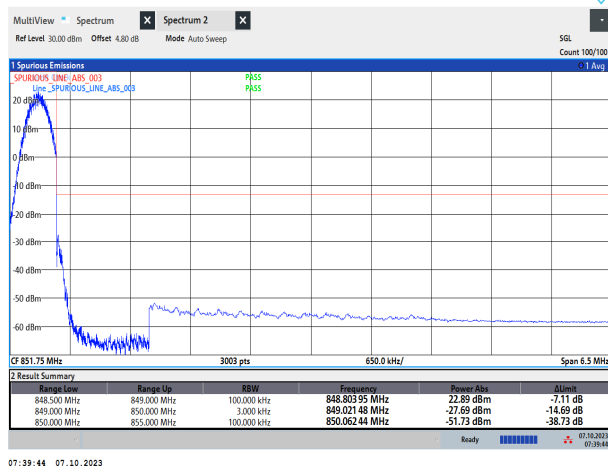
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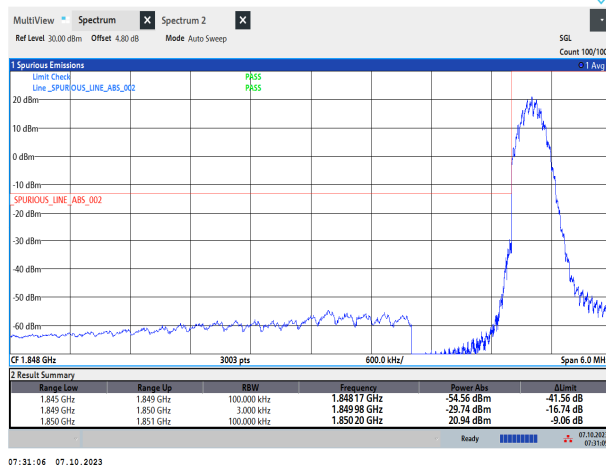


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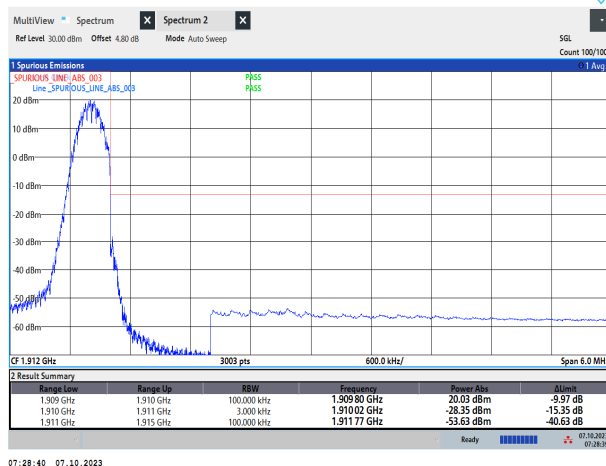
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GSM1900-810



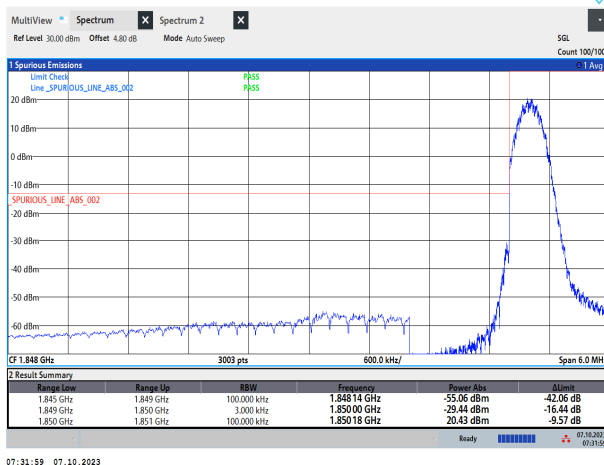
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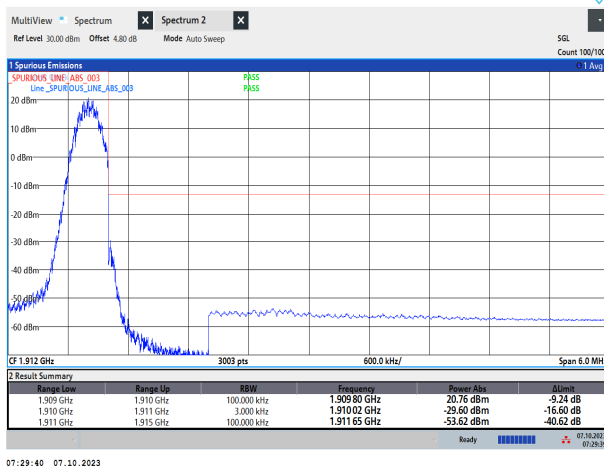
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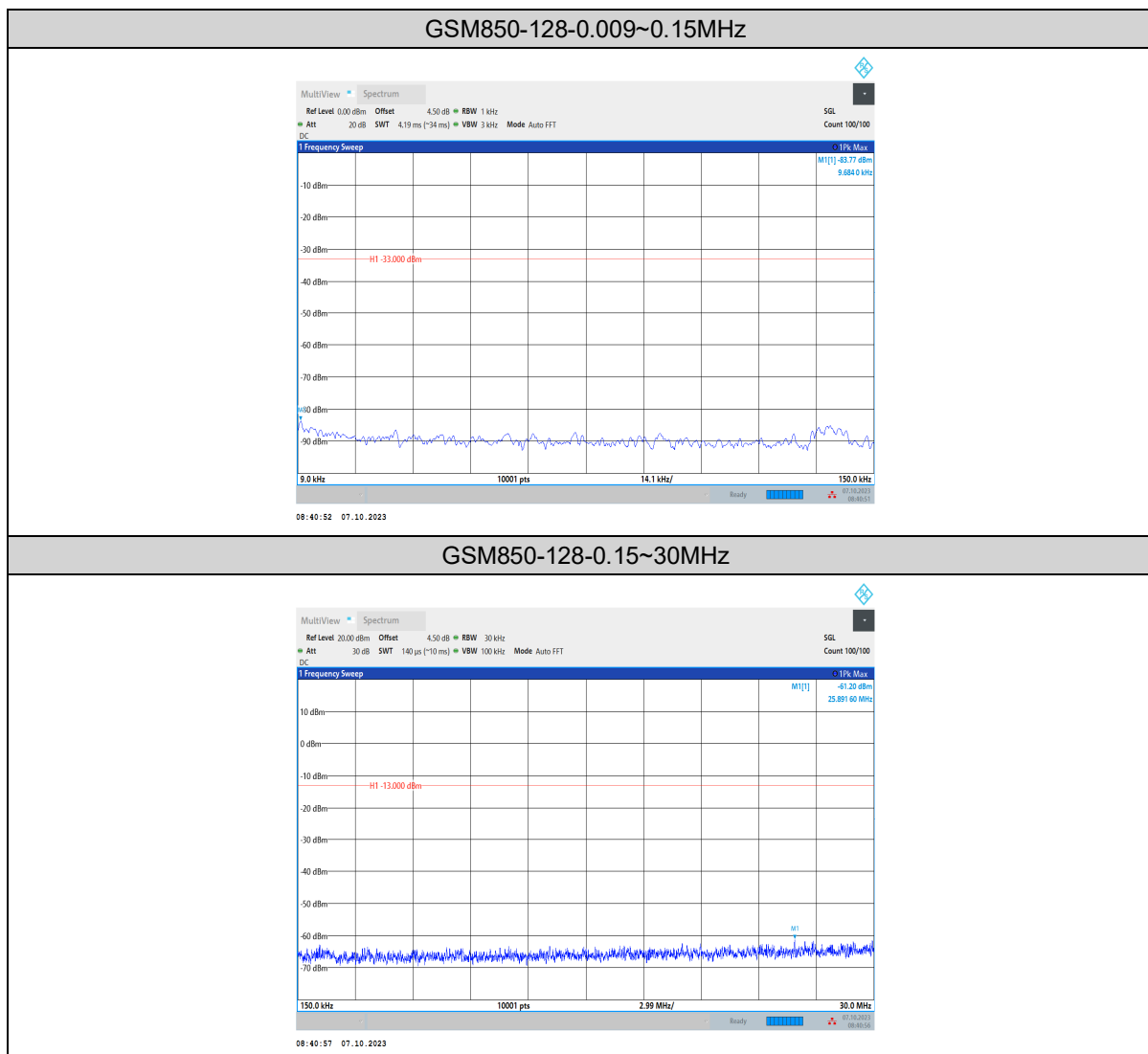
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Conducted Spurious Emission

Test Graphs



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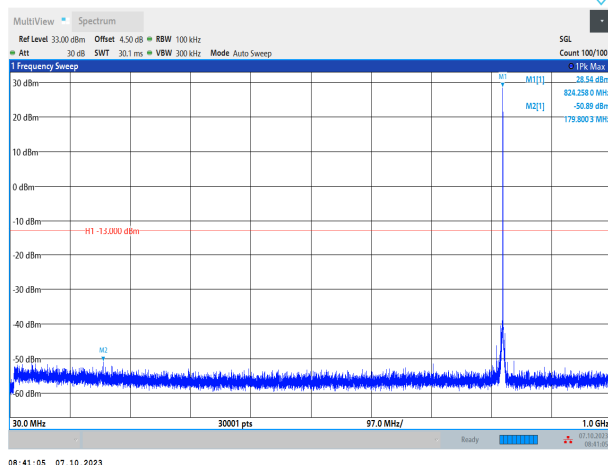


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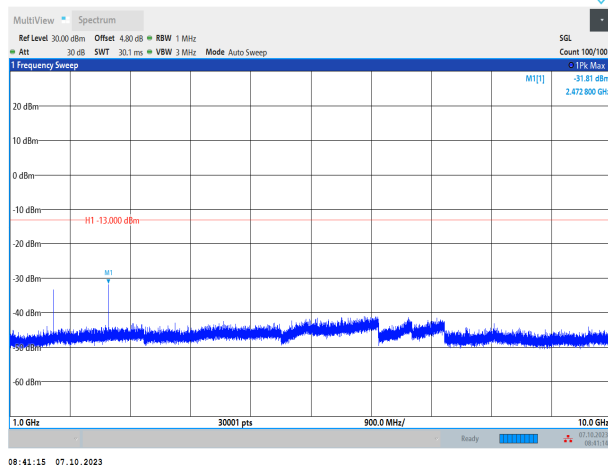
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GSM850-128-30~1000MHz



GSM850-128-1000~10000MHz



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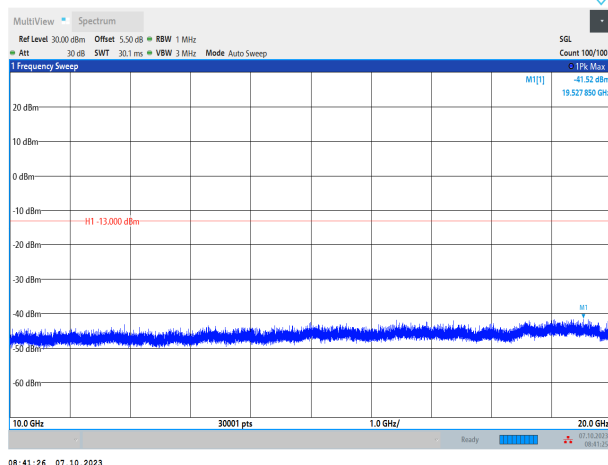


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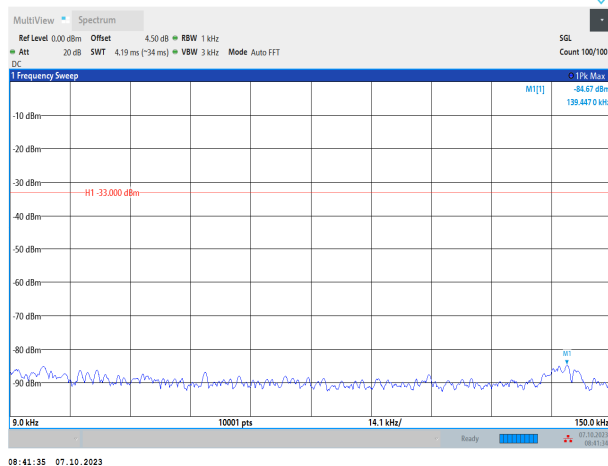
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GSM850-128-10000~20000MHz



GSM850-190-0.009~0.15MHz



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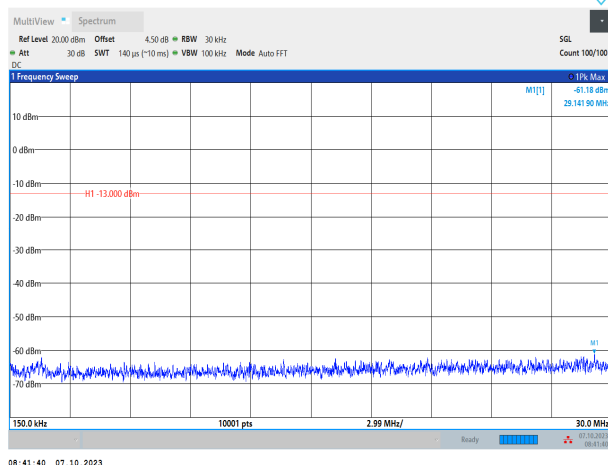
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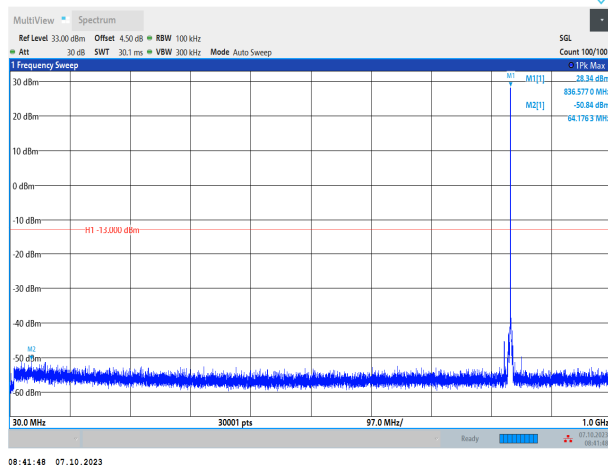
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GSM850-190-0.15~30MHz



GSM850-190-30~1000MHz



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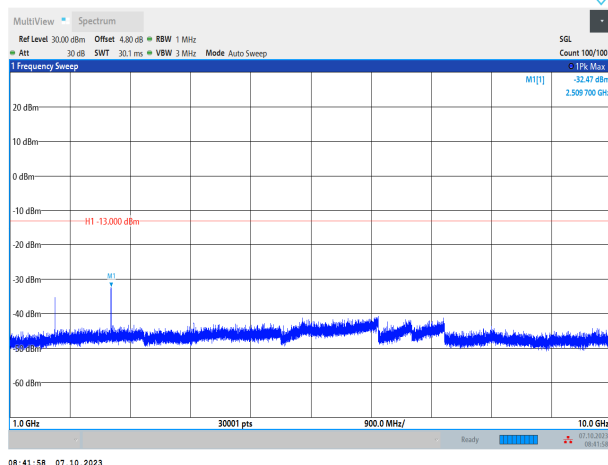


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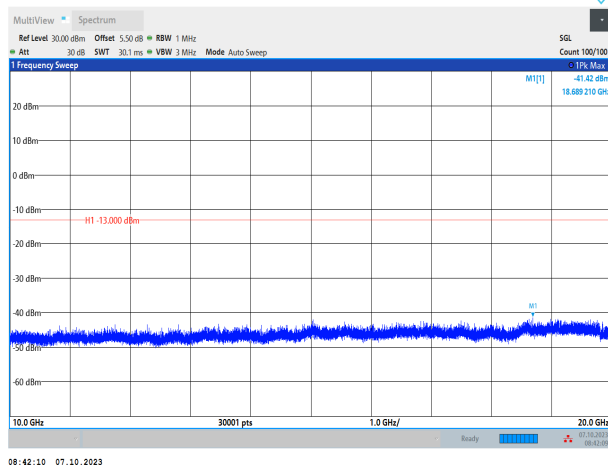
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GSM850-190-1000~10000MHz



GSM850-190-10000~20000MHz



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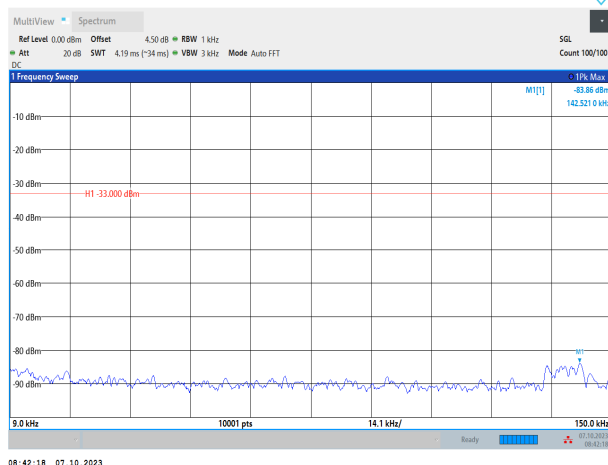


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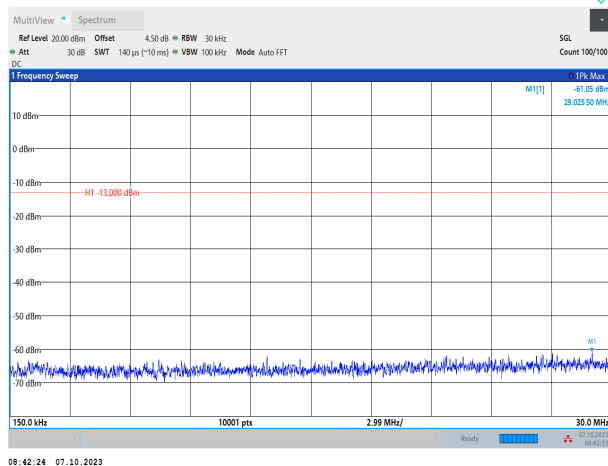
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GSM850-251-0.009~0.15MHz



GSM850-251-0.15~30MHz



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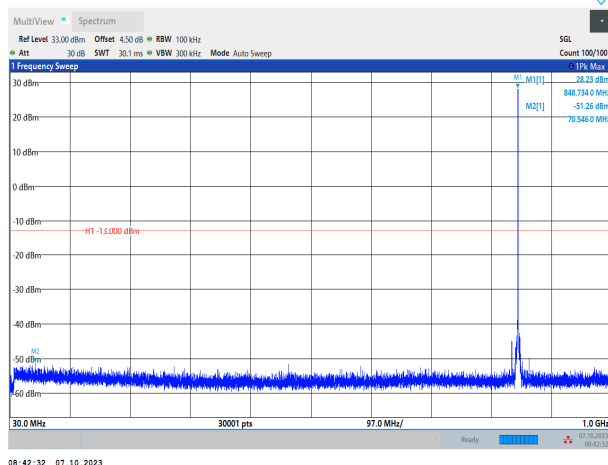


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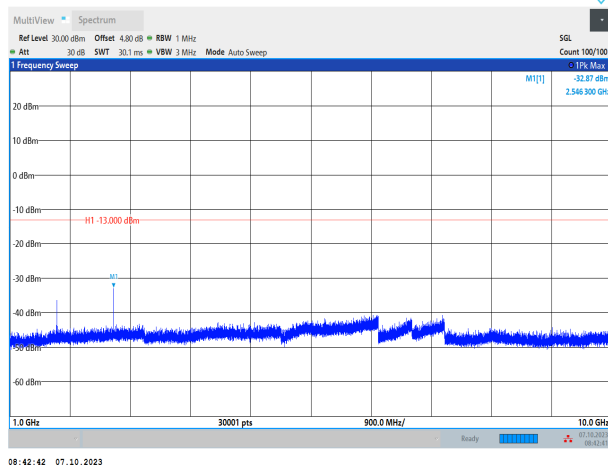
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GSM850-251-30~1000MHz



GSM850-251-1000~10000MHz



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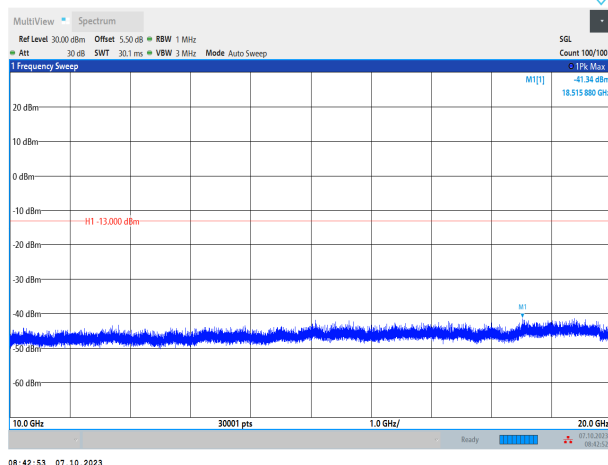


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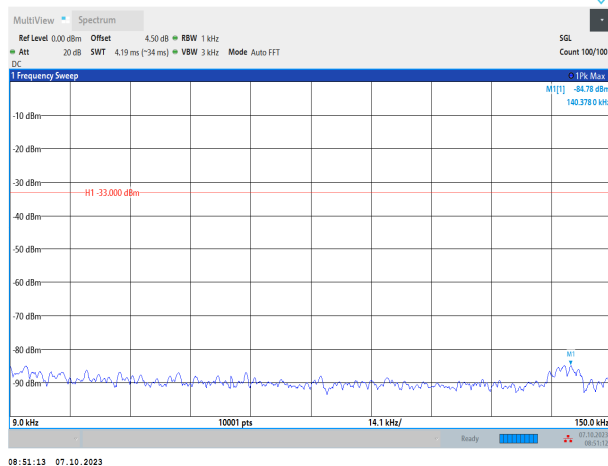
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GSM850-251-10000~20000MHz



EGPRS850-128-0.009~0.15MHz



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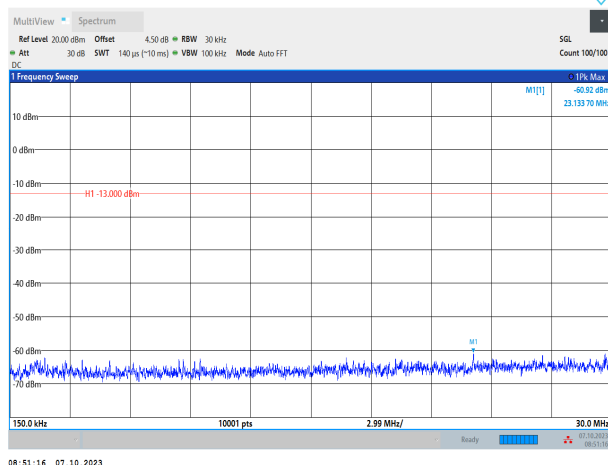


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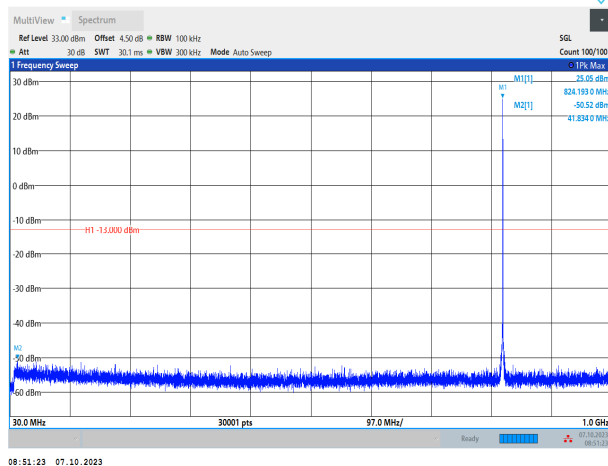
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EGPRS850-128-0.15~30MHz



EGPRS850-128-30~1000MHz



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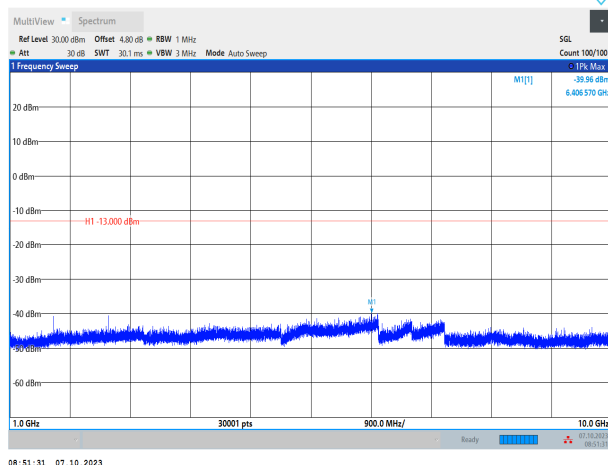


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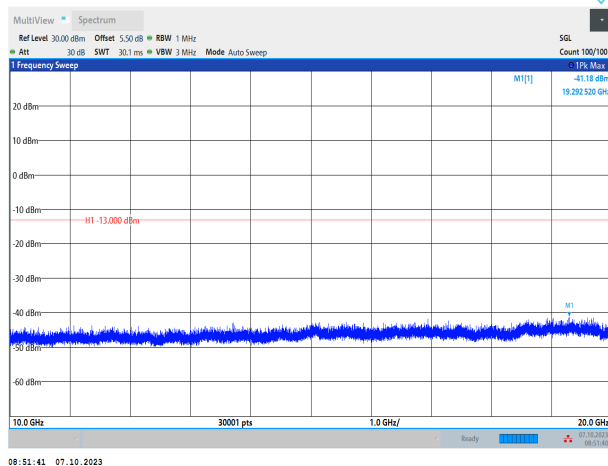
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EGPRS850-128-1000~10000MHz



EGPRS850-128-10000~20000MHz



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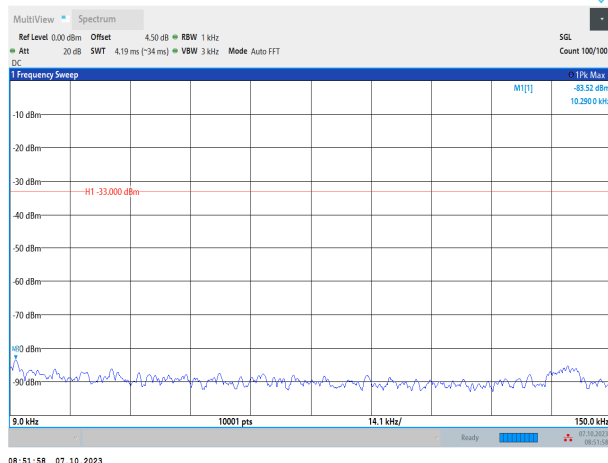


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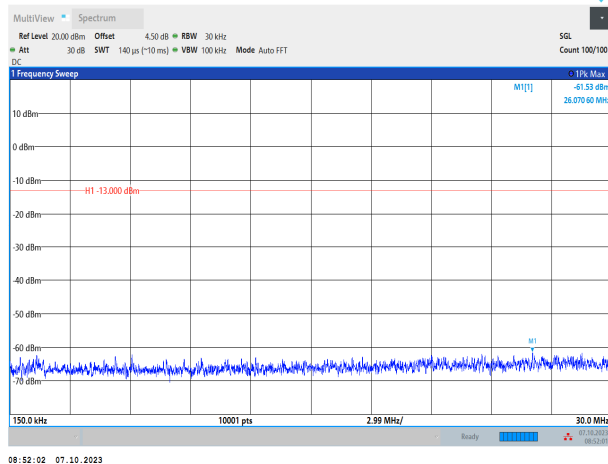
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EGPRS850-190-0.009~0.15MHz



EGPRS850-190-0.15~30MHz



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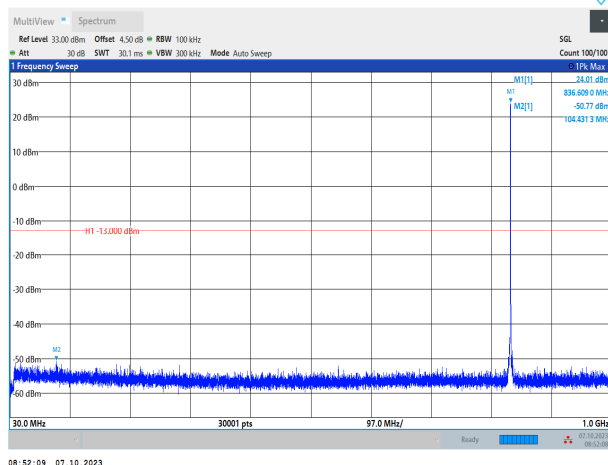
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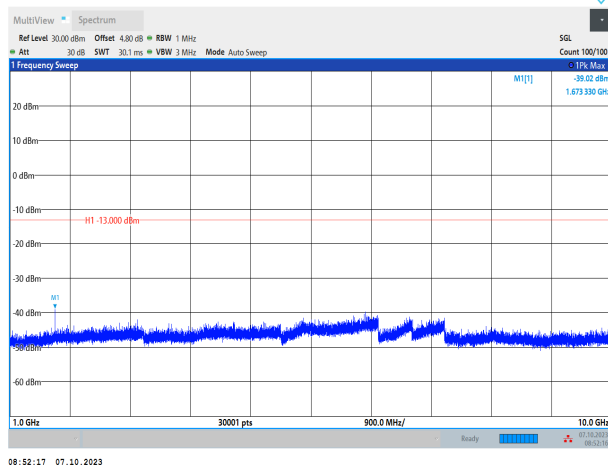
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EGPRS850-190-30~1000MHz



EGPRS850-190-1000~10000MHz



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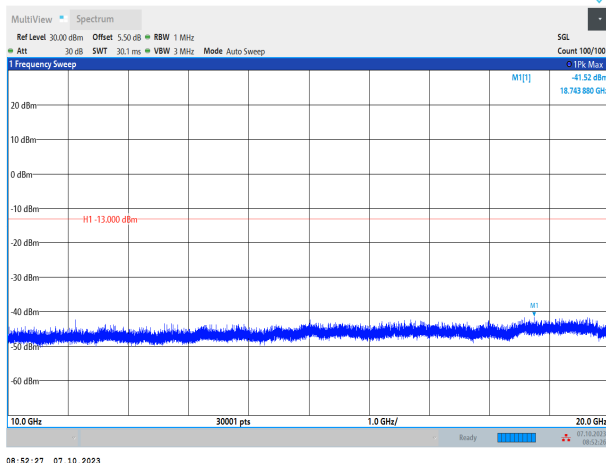


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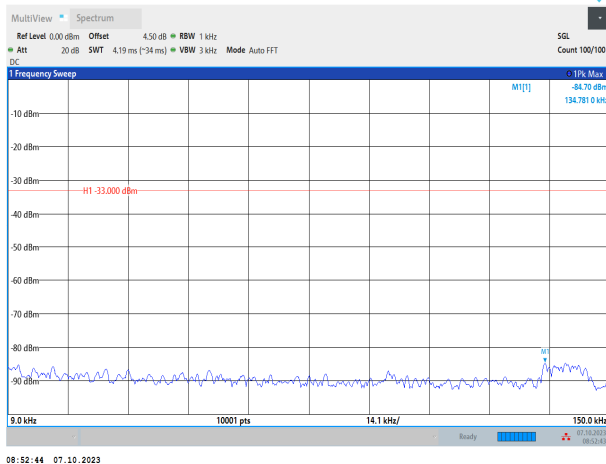
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EGPRS850-190-10000~20000MHz



EGPRS850-251-0.009~0.15MHz



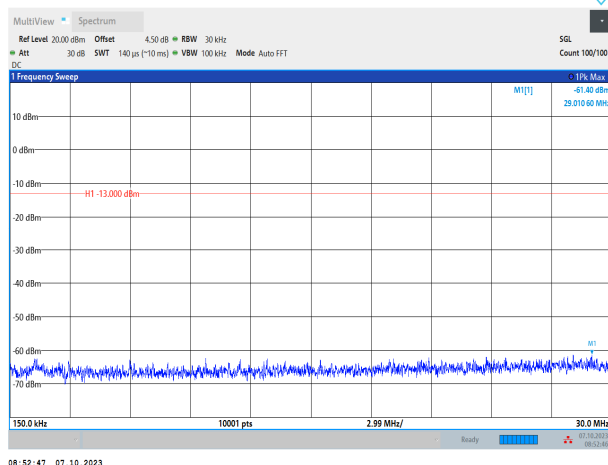
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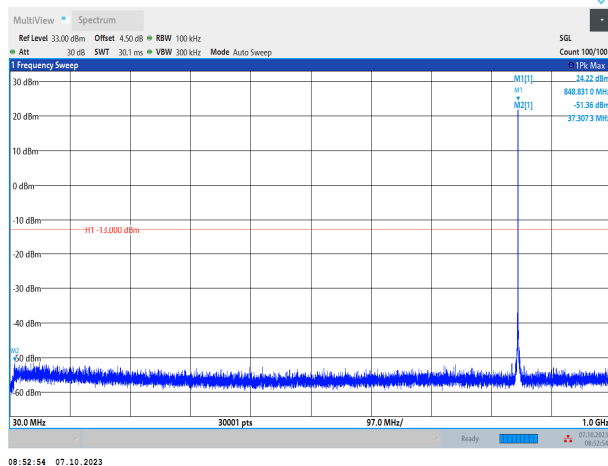
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EGPRS850-251-0.15~30MHz



EGPRS850-251-30~1000MHz



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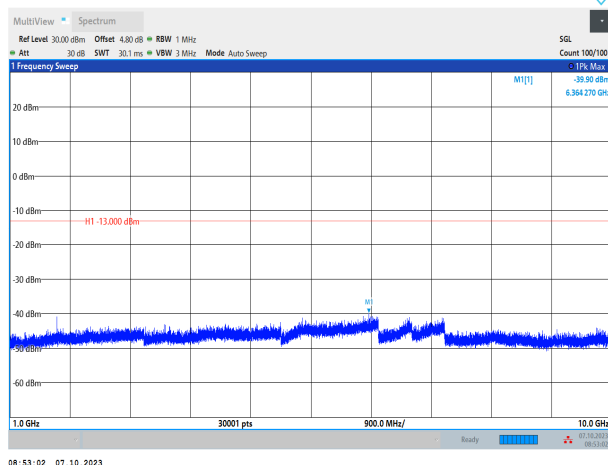


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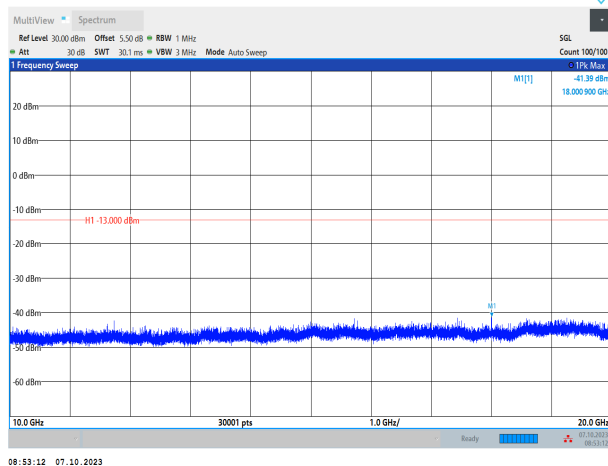
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EGPRS850-251-1000~10000MHz



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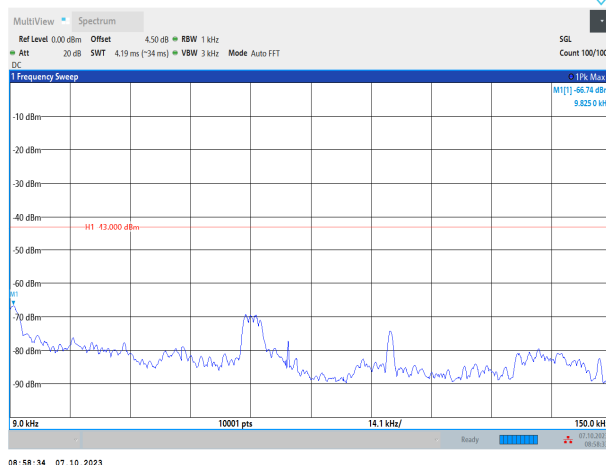
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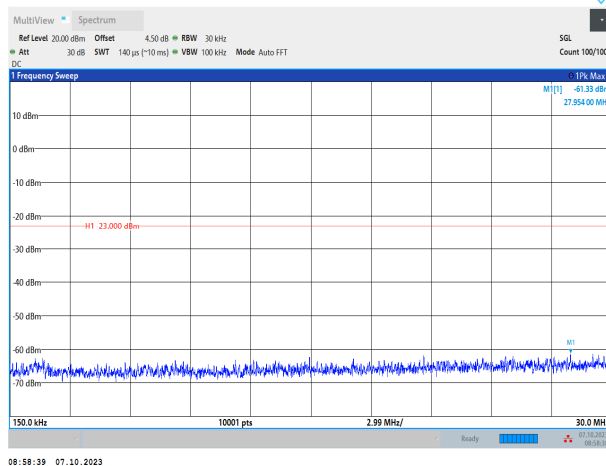
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GSM1900-512-0.009~0.15MHz



GSM1900-512-0.15~30MHz



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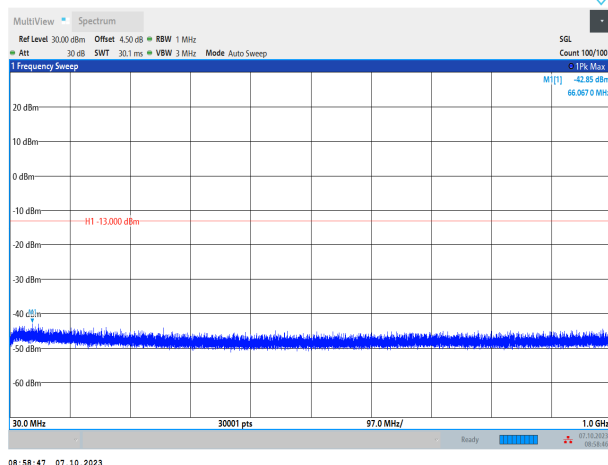


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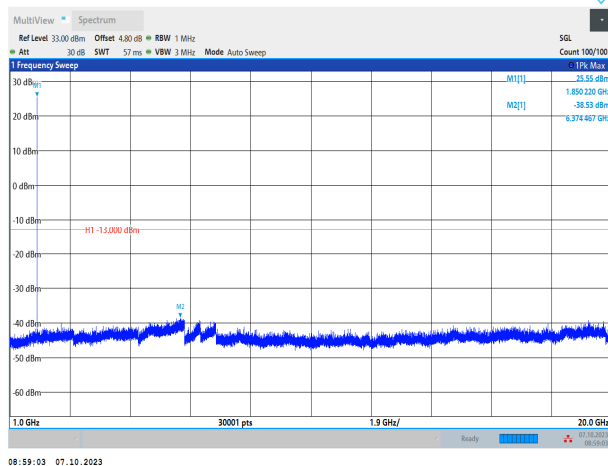
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GSM1900-512-30~1000MHz



GSM1900-512-1000~20000MHz



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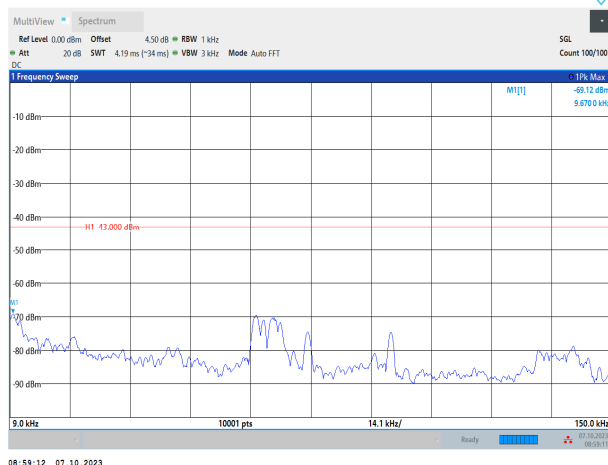


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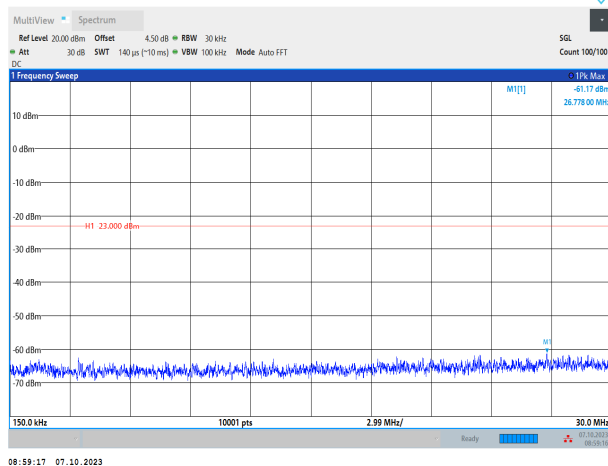
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GSM1900-661-0.009~0.15MHz



GSM1900-661-0.15~30MHz



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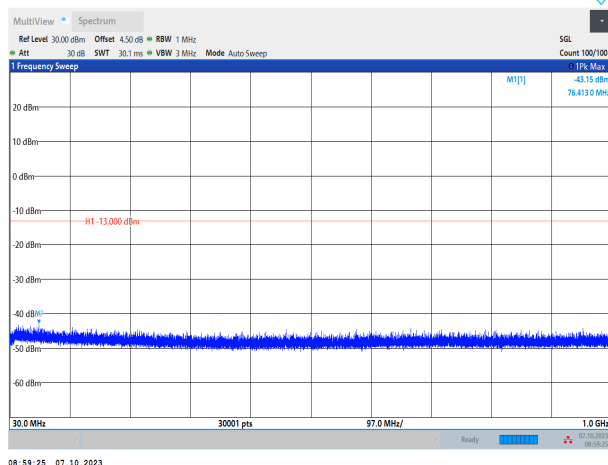


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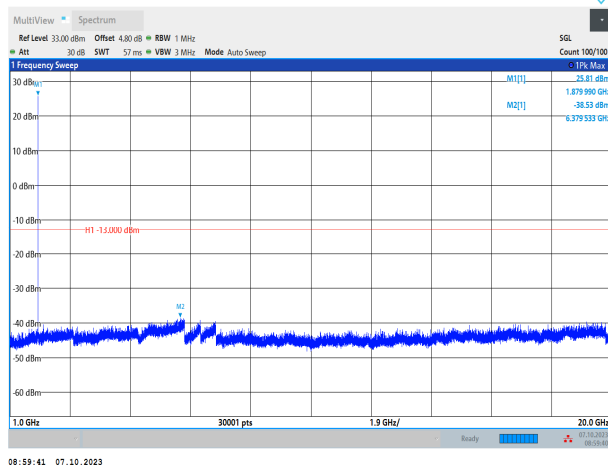
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GSM1900-661-30~1000MHz



GSM1900-661-1000~20000MHz



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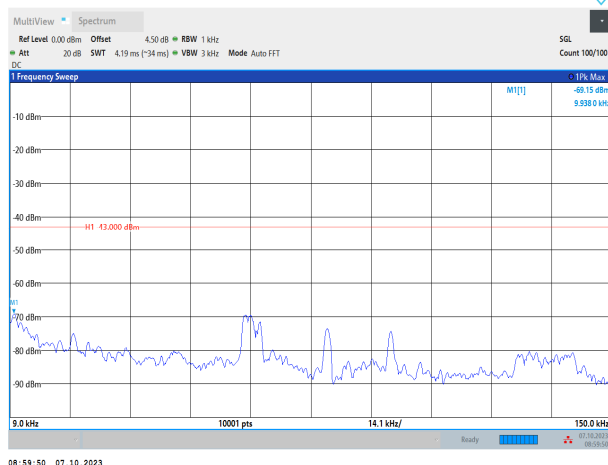
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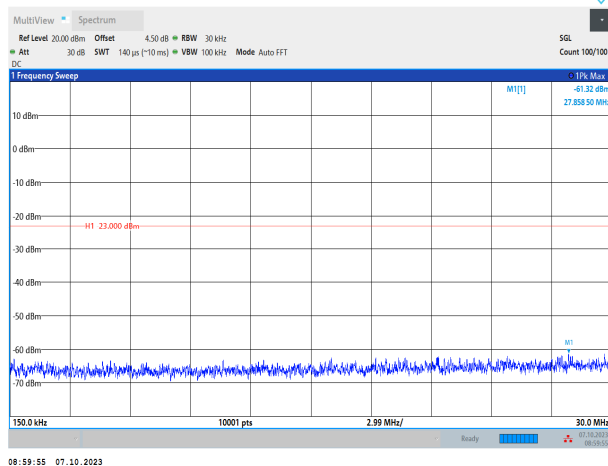
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GSM1900-810-0.009~0.15MHz



GSM1900-810-0.15~30MHz



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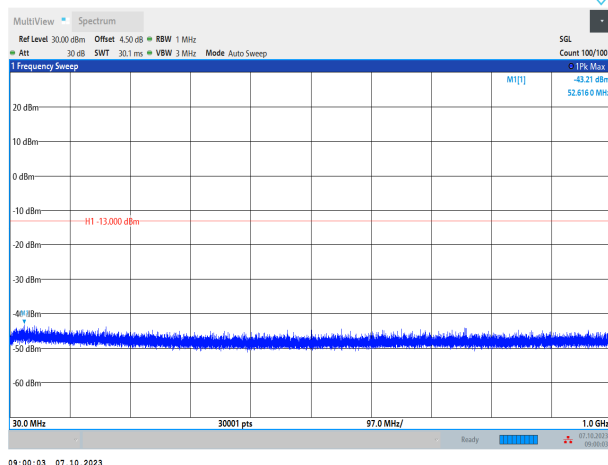
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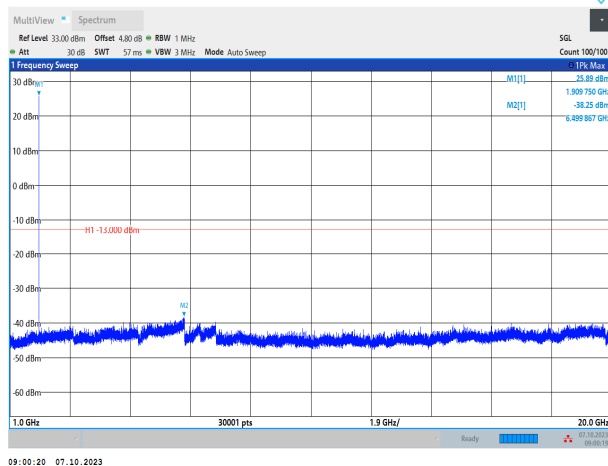
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GSM1900-810-30~1000MHz



GSM1900-810-1000~20000MHz



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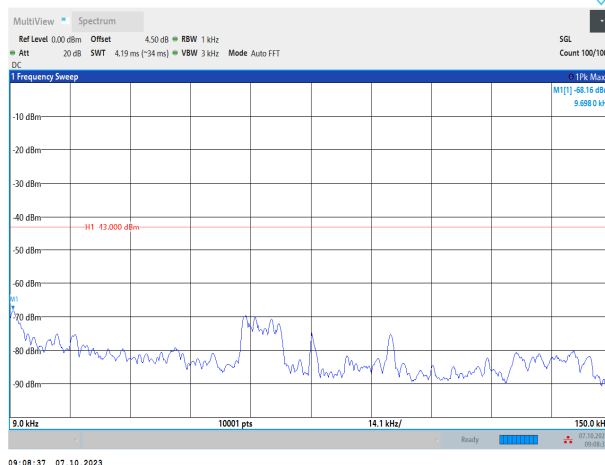


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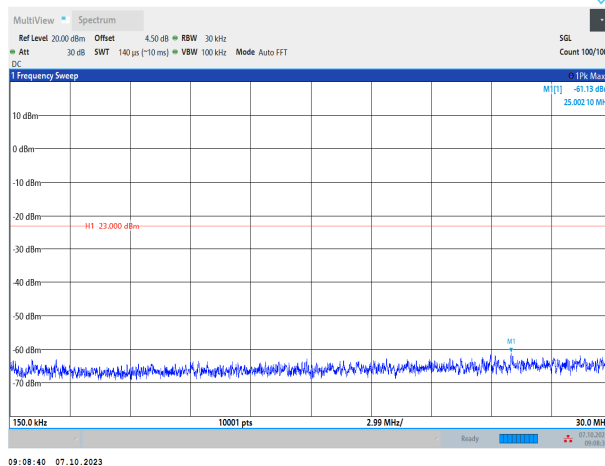
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EGPRS1900-512-0.009~0.15MHz



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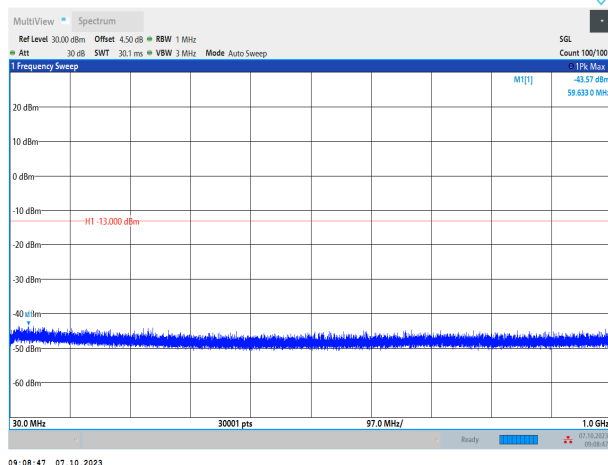
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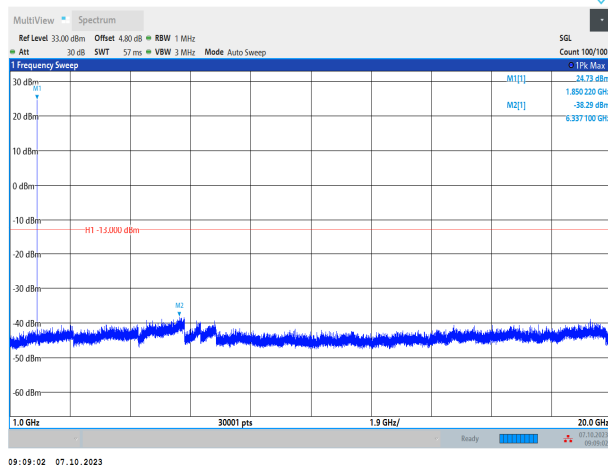
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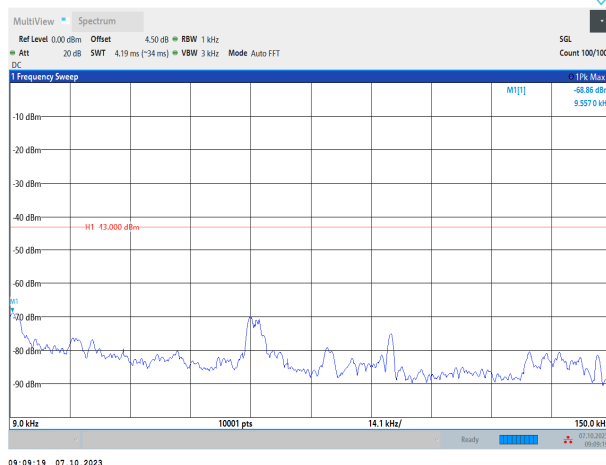


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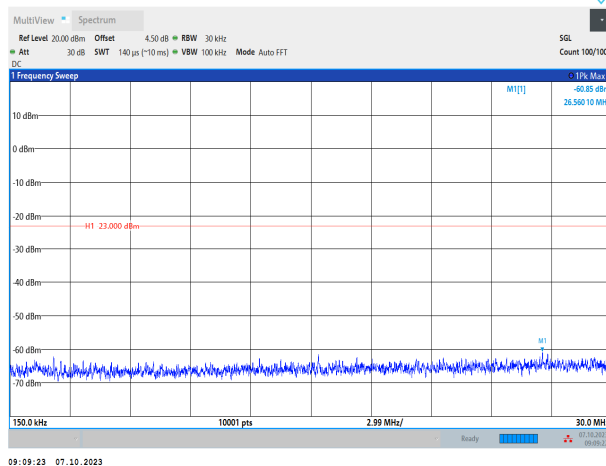
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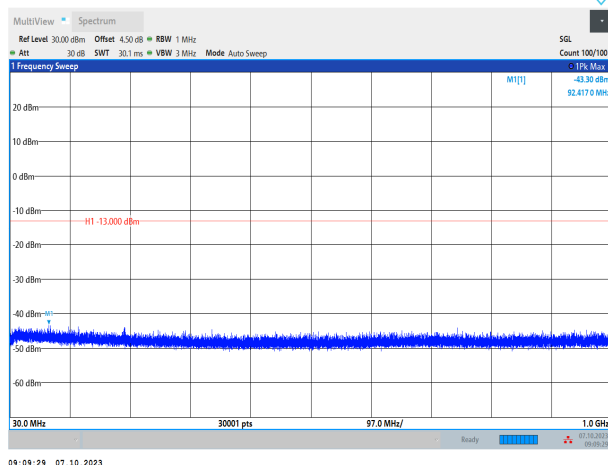


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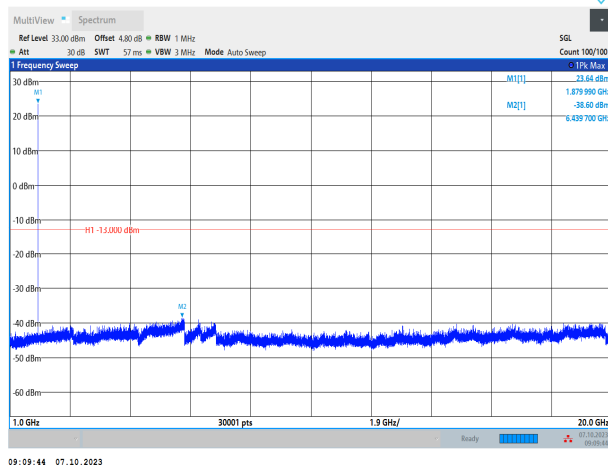
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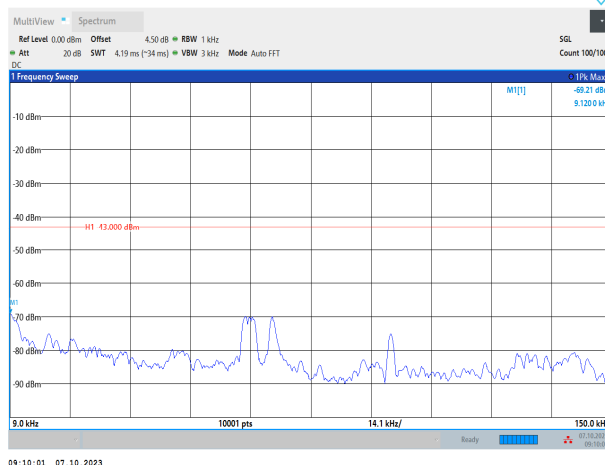
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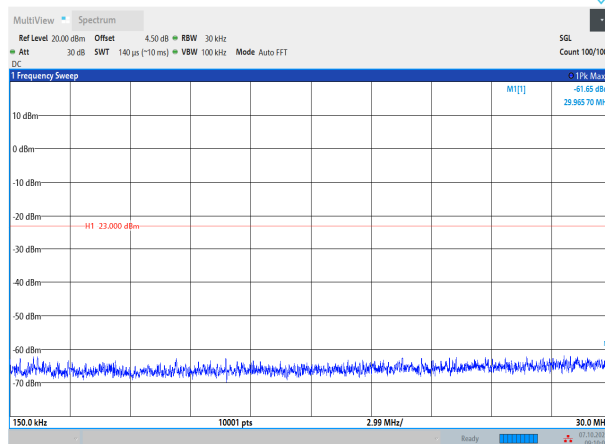
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EGPRS1900-810-0.15~30MHz



09:10:05 07.10.2023



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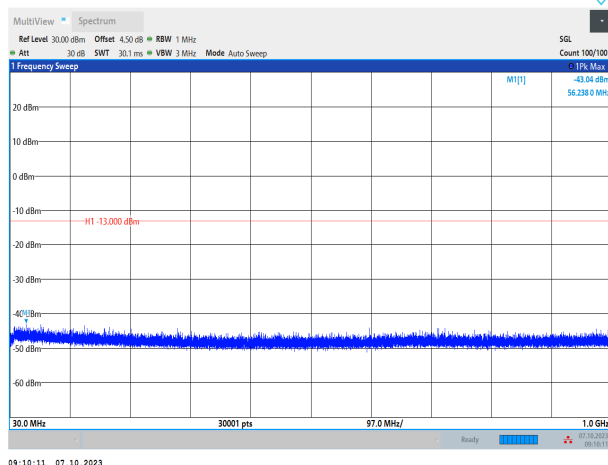
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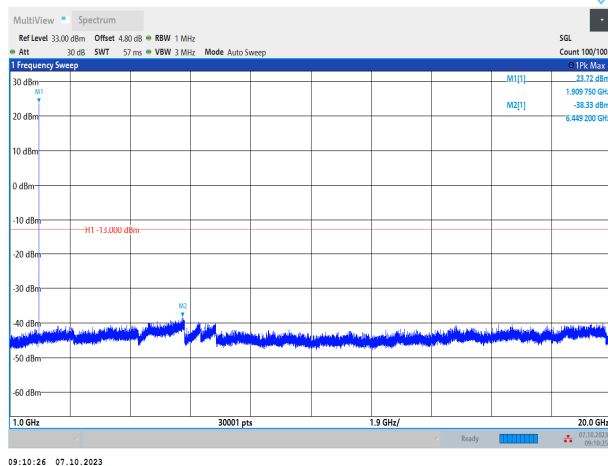
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Field Strength of Spurious Radiation

Test Band = GSM 850_ TM1**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4	62.80	-49.83	25.29	-56.99	-13.00	43.99	Horizontal
2	2472.6	44.55	-49.06	27.27	-72.50	-13.00	59.50	Horizontal
3	3296.8	44.71	-48.63	28.62	-70.56	-13.00	57.56	Horizontal
4	4121	43.16	-48.28	29.62	-70.76	-13.00	57.76	Horizontal
5	4945.2	43.11	-48.07	31.37	-68.86	-13.00	55.86	Horizontal
6	5769.4	43.57	-47.65	32.75	-66.59	-13.00	53.59	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4	64.62	-49.83	25.29	-55.17	-13.00	42.17	Vertical
2	2472.6	53.60	-49.06	27.27	-63.45	-13.00	50.45	Vertical
3	3296.8	44.45	-48.63	28.62	-70.82	-13.00	57.82	Vertical
4	4121	43.82	-48.28	29.62	-70.10	-13.00	57.10	Vertical
5	4945.2	43.12	-48.07	31.37	-68.85	-13.00	55.85	Vertical
6	5769.4	43.65	-47.65	32.75	-66.51	-13.00	53.51	Vertical



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Test Band = GSM 850_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	68.82	-49.78	25.39	-50.83	-13.00	37.83	Horizontal
2	2509.2	46.24	-48.93	27.32	-70.62	-13.00	57.62	Horizontal
3	3345.6	44.27	-48.66	28.64	-71.01	-13.00	58.01	Horizontal
4	4182	44.33	-48.34	29.73	-69.54	-13.00	56.54	Horizontal
5	5018.4	43.41	-47.95	31.54	-68.26	-13.00	55.26	Horizontal
6	5854.8	43.10	-47.33	32.77	-66.72	-13.00	53.72	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	70.11	-49.78	25.39	-49.54	-13.00	36.54	Vertical
2	2509.2	47.11	-48.93	27.32	-69.75	-13.00	56.75	Vertical
3	3345.6	44.95	-48.66	28.64	-70.33	-13.00	57.33	Vertical
4	4182	43.74	-48.34	29.73	-70.13	-13.00	57.13	Vertical
5	5018.4	43.19	-47.95	31.54	-68.48	-13.00	55.48	Vertical
6	5854.8	44.01	-47.33	32.77	-65.81	-13.00	52.81	Vertical



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Test Band = GSM 850_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6	64.32	-49.72	25.49	-55.17	-13.00	42.17	Horizontal
2	2546.4	48.75	-49.03	27.41	-68.12	-13.00	55.12	Horizontal
3	3395.2	45.17	-48.69	28.66	-70.12	-13.00	57.12	Horizontal
4	4244	44.22	-48.21	29.84	-69.42	-13.00	56.42	Horizontal
5	5092.8	43.51	-47.92	31.72	-67.95	-13.00	54.95	Horizontal
6	5941.6	43.22	-47.26	32.79	-66.51	-13.00	53.51	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6	63.04	-49.72	25.49	-56.45	-13.00	43.45	Vertical
2	2546.4	48.61	-49.03	27.41	-68.26	-13.00	55.26	Vertical
3	3395.2	43.94	-48.69	28.66	-71.35	-13.00	58.35	Vertical
4	4244	43.60	-48.21	29.84	-70.04	-13.00	57.04	Vertical
5	5092.8	43.41	-47.92	31.72	-68.05	-13.00	55.05	Vertical
6	5941.6	43.23	-47.26	32.79	-66.50	-13.00	53.50	Vertical



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Test Band = GSM 1900_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	43.29	-48.51	28.98	-71.50	-13.00	58.50	Horizontal
2	5550.6	43.56	-47.66	32.71	-66.65	-13.00	53.65	Horizontal
3	7400.8	42.78	-46.17	36.56	-62.09	-13.00	49.09	Horizontal
4	9251	39.94	-43.20	37.83	-60.70	-13.00	47.70	Horizontal
5	11101.2	36.62	-40.36	39.38	-59.62	-13.00	46.62	Horizontal
6	12951.4	36.62	-39.41	38.63	-59.42	-13.00	46.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	43.78	-48.51	28.98	-71.01	-13.00	58.01	Vertical
2	5550.6	44.35	-47.66	32.71	-65.86	-13.00	52.86	Vertical
3	7400.8	42.80	-46.17	36.56	-62.07	-13.00	49.07	Vertical
4	9251	40.35	-43.20	37.83	-60.29	-13.00	47.29	Vertical
5	11101.2	36.76	-40.36	39.38	-59.48	-13.00	46.48	Vertical
6	12951.4	36.43	-39.41	38.63	-59.61	-13.00	46.61	Vertical



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Test Band = GSM 1900_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	43.35	-48.31	29.06	-71.16	-13.00	58.16	Horizontal
2	5640	43.14	-47.62	32.73	-67.01	-13.00	54.01	Horizontal
3	7520	41.74	-45.85	36.78	-62.59	-13.00	49.59	Horizontal
4	9400	40.56	-43.05	37.96	-59.79	-13.00	46.79	Horizontal
5	11280	37.14	-40.44	39.34	-59.21	-13.00	46.21	Horizontal
6	13160	35.90	-38.58	38.97	-58.97	-13.00	45.97	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	43.93	-48.31	29.06	-70.58	-13.00	57.58	Vertical
2	5640	42.74	-47.62	32.73	-67.41	-13.00	54.41	Vertical
3	7520	41.94	-45.85	36.78	-62.39	-13.00	49.39	Vertical
4	9400	39.45	-43.05	37.96	-60.90	-13.00	47.90	Vertical
5	11280	37.71	-40.44	39.34	-58.64	-13.00	45.64	Vertical
6	13160	35.80	-38.58	38.97	-59.07	-13.00	46.07	Vertical



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Test Band = GSM 1900_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6	43.99	-48.20	29.15	-70.32	-13.00	57.32	Horizontal
2	5729.4	43.19	-47.54	32.75	-66.86	-13.00	53.86	Horizontal
3	7639.2	41.53	-44.82	36.63	-61.92	-13.00	48.92	Horizontal
4	9549	39.78	-42.31	38.09	-59.69	-13.00	46.69	Horizontal
5	11458.8	37.74	-40.07	39.31	-58.28	-13.00	45.28	Horizontal
6	13368.6	36.44	-39.15	39.45	-58.52	-13.00	45.52	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6	43.86	-48.20	29.15	-70.45	-13.00	57.45	Vertical
2	5729.4	43.31	-47.54	32.75	-66.74	-13.00	53.74	Vertical
3	7639.2	41.05	-44.82	36.63	-62.40	-13.00	49.40	Vertical
4	9549	40.60	-42.31	38.09	-58.87	-13.00	45.87	Vertical
5	11458.8	37.73	-40.07	39.31	-58.29	-13.00	45.29	Vertical
6	13368.6	36.77	-39.15	39.45	-58.19	-13.00	45.19	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.



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Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	VL	NT	7.43	0.008881	±2.5	PASS
GSM850	190	VN	NT	8.14	0.009730	±2.5	PASS
GSM850	190	VH	NT	5.39	0.006443	±2.5	PASS
EGPRS850	190	VL	NT	23.08	0.027588	±2.5	PASS
EGPRS850	190	VN	NT	21.73	0.025974	±2.5	PASS
EGPRS850	190	VH	NT	21.57	0.025783	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	1.94	0.001032	PASS
GSM1900	661	VN	NT	5.29	0.002814	PASS
GSM1900	661	VH	NT	2.94	0.001564	PASS
EGPRS1900	661	VL	NT	20.70	0.011011	PASS
EGPRS1900	661	VN	NT	21.76	0.011574	PASS
EGPRS1900	661	VH	NT	21.21	0.011282	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	7.04	0.008415	±2.5	PASS
GSM850	190	NV	-20	6.39	0.007638	±2.5	PASS
GSM850	190	NV	-10	4.23	0.005056	±2.5	PASS
GSM850	190	NV	0	8.04	0.009610	±2.5	PASS
GSM850	190	NV	10	7.07	0.008451	±2.5	PASS
GSM850	190	NV	20	3.75	0.004482	±2.5	PASS
GSM850	190	NV	30	6.46	0.007722	±2.5	PASS
GSM850	190	NV	40	8.27	0.009885	±2.5	PASS
GSM850	190	NV	50	9.65	0.011535	±2.5	PASS
EGPRS850	190	NV	-30	22.12	0.026440	±2.5	PASS
EGPRS850	190	NV	-20	21.76	0.026010	±2.5	PASS
EGPRS850	190	NV	-10	21.37	0.025544	±2.5	PASS
EGPRS850	190	NV	0	21.57	0.025783	±2.5	PASS
EGPRS850	190	NV	10	21.47	0.025663	±2.5	PASS
EGPRS850	190	NV	20	21.95	0.026237	±2.5	PASS
EGPRS850	190	NV	30	21.44	0.025628	±2.5	PASS
EGPRS850	190	NV	40	21.95	0.026237	±2.5	PASS
EGPRS850	190	NV	50	21.34	0.025508	±2.5	PASS



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Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	1.52	0.000809	PASS
GSM1900	661	NV	-20	1.32	0.000702	PASS
GSM1900	661	NV	-10	2.13	0.001133	PASS
GSM1900	661	NV	0	4.55	0.002420	PASS
GSM1900	661	NV	10	0.74	0.000394	PASS
GSM1900	661	NV	20	5.46	0.002904	PASS
GSM1900	661	NV	30	1.10	0.000585	PASS
GSM1900	661	NV	40	3.16	0.001681	PASS
GSM1900	661	NV	50	2.84	0.001511	PASS
EGPRS1900	661	NV	-30	22.41	0.011920	PASS
EGPRS1900	661	NV	-20	22.34	0.011883	PASS
EGPRS1900	661	NV	-10	20.47	0.010888	PASS
EGPRS1900	661	NV	0	21.37	0.011367	PASS
EGPRS1900	661	NV	10	20.37	0.010835	PASS
EGPRS1900	661	NV	20	19.92	0.010596	PASS
EGPRS1900	661	NV	30	22.05	0.011729	PASS
EGPRS1900	661	NV	40	21.37	0.011367	PASS
EGPRS1900	661	NV	50	19.95	0.010612	PASS

---End of Attachment---



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Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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