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Appendix B.1

GSM 850&1900



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT0

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	33.92	29.07	38.45	PASS
GSM850	190	33.86	29.01	38.45	PASS
GSM850	251	33.96	29.11	38.45	PASS
Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	30.87	29.87	33.00	PASS
GSM1900	661	30.92	29.92	33.00	PASS
GSM1900	810	30.94	29.94	33.00	PASS



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Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.50	21.65	38.45	PASS
EGPRS850	128	2	25.34	20.49	38.45	PASS
EGPRS850	128	3	23.16	18.31	38.45	PASS
EGPRS850	128	4	21.97	17.12	38.45	PASS
EGPRS850	190	1	26.51	21.66	38.45	PASS
EGPRS850	190	2	25.31	20.46	38.45	PASS
EGPRS850	190	3	23.18	18.33	38.45	PASS
EGPRS850	190	4	22.01	17.16	38.45	PASS
EGPRS850	251	1	26.61	21.76	38.45	PASS
EGPRS850	251	2	25.41	20.56	38.45	PASS
EGPRS850	251	3	23.19	18.34	38.45	PASS
EGPRS850	251	4	21.98	17.13	38.45	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	25.26	24.26	33.00	PASS
EGPRS1900	512	2	24.11	23.11	33.00	PASS
EGPRS1900	512	3	21.83	20.83	33.00	PASS
EGPRS1900	512	4	20.58	19.58	33.00	PASS
EGPRS1900	661	1	25.41	24.41	33.00	PASS
EGPRS1900	661	2	24.20	23.2	33.00	PASS
EGPRS1900	661	3	22.02	21.02	33.00	PASS
EGPRS1900	661	4	20.72	19.72	33.00	PASS
EGPRS1900	810	1	24.92	23.92	33.00	PASS
EGPRS1900	810	2	23.71	22.71	33.00	PASS
EGPRS1900	810	3	21.46	20.46	33.00	PASS
EGPRS1900	810	4	20.23	19.23	33.00	PASS

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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.42	13	PASS
GSM850	190	9.44	13	PASS
GSM850	251	9.52	13	PASS
EGPRS850	128	12.72	13	PASS
EGPRS850	190	12.7	13	PASS
EGPRS850	251	12.8	13	PASS
GSM1900	512	9.52	13	PASS
GSM1900	661	9.52	13	PASS
GSM1900	810	9.42	13	PASS
EGPRS1900	512	12.86	13	PASS
EGPRS1900	661	12.86	13	PASS
EGPRS1900	810	12.84	13	PASS



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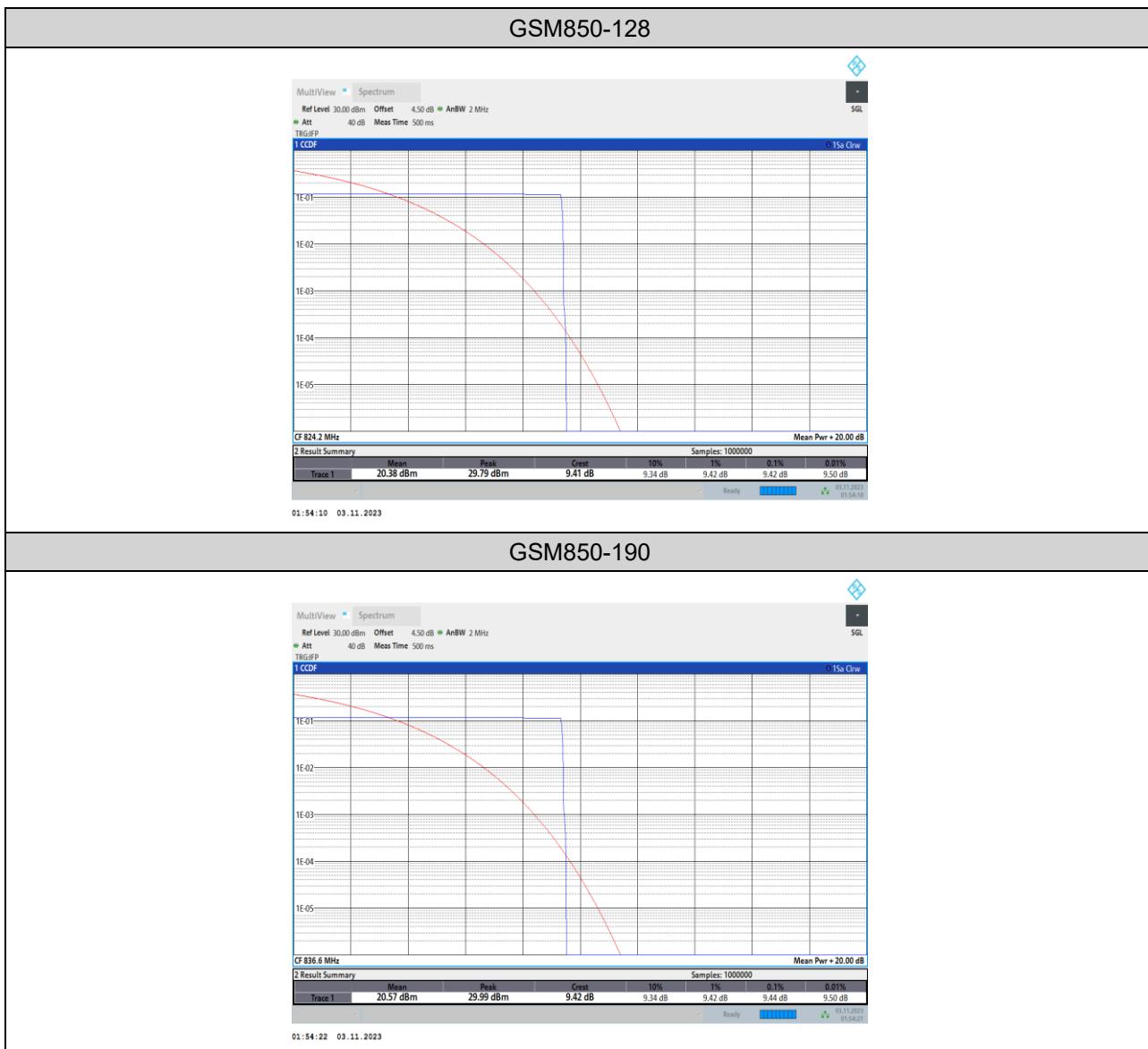
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Test Graphs



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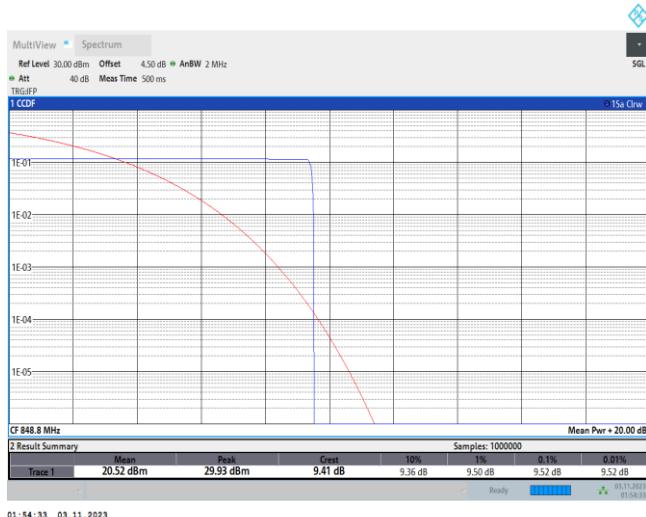
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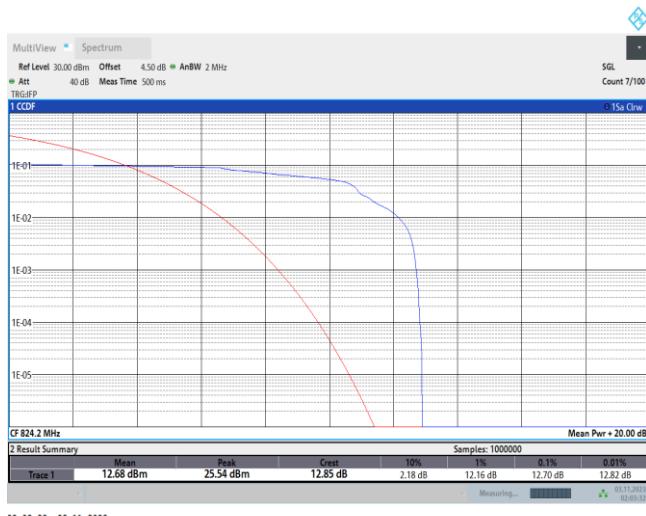
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GSM850-251



EGPRS850-128



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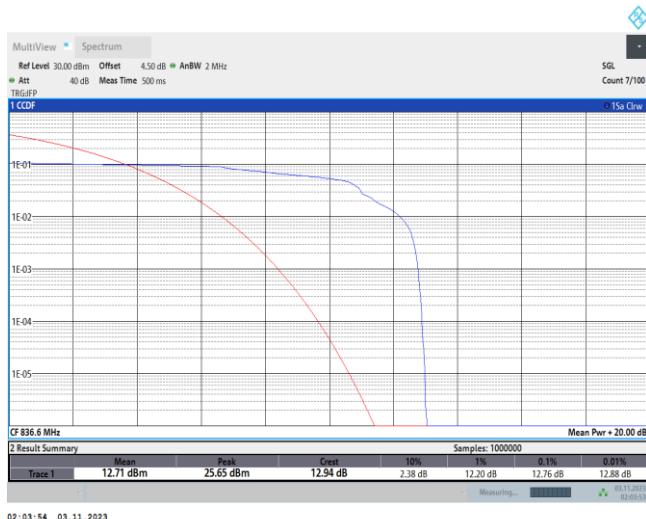
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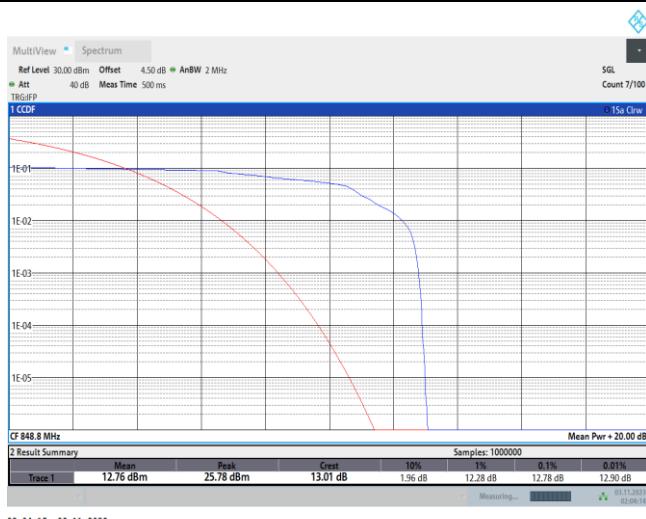
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EGPRS850-190



EGPRS850-251



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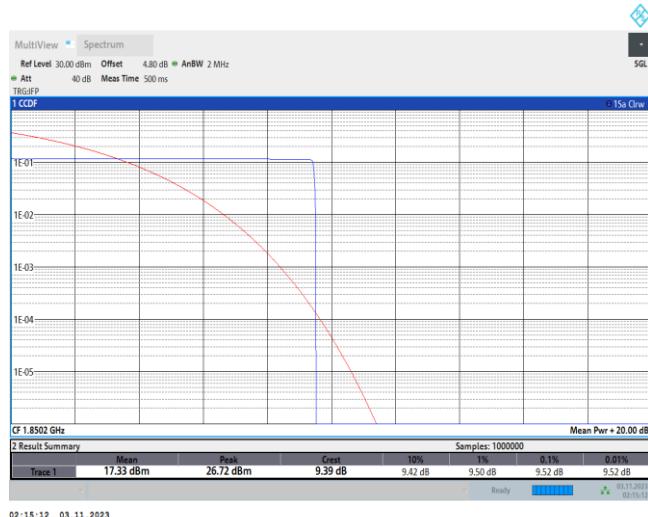
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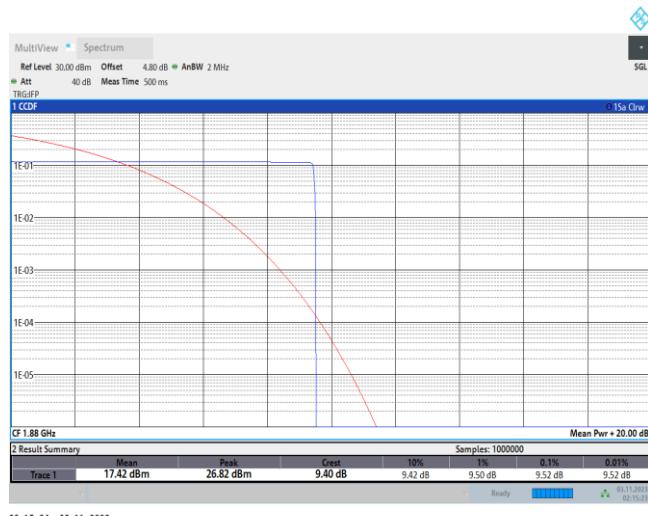
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GSM1900-512



GSM1900-661



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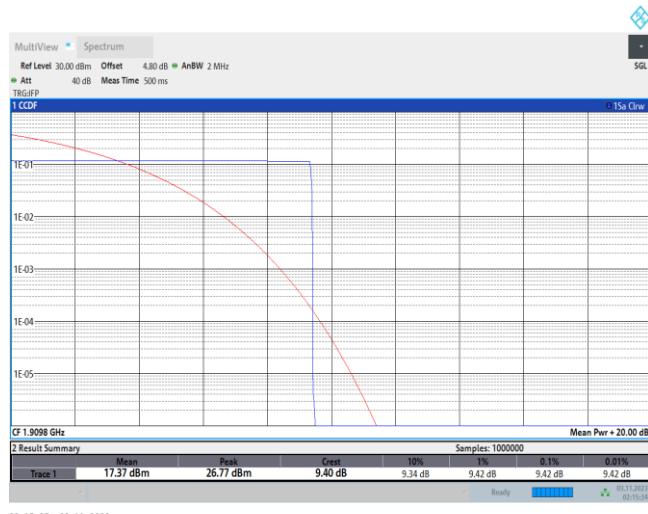
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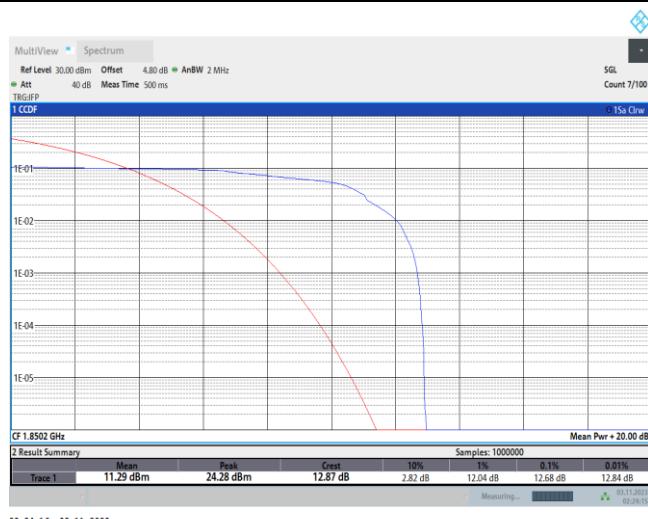
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GSM1900-810



EGPRS1900-512



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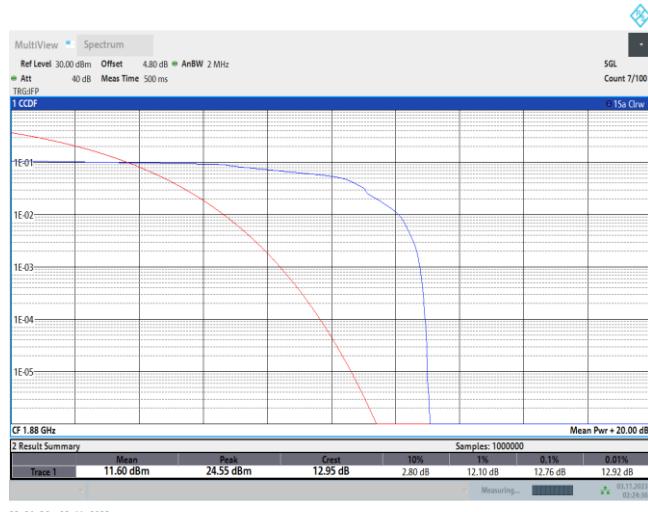
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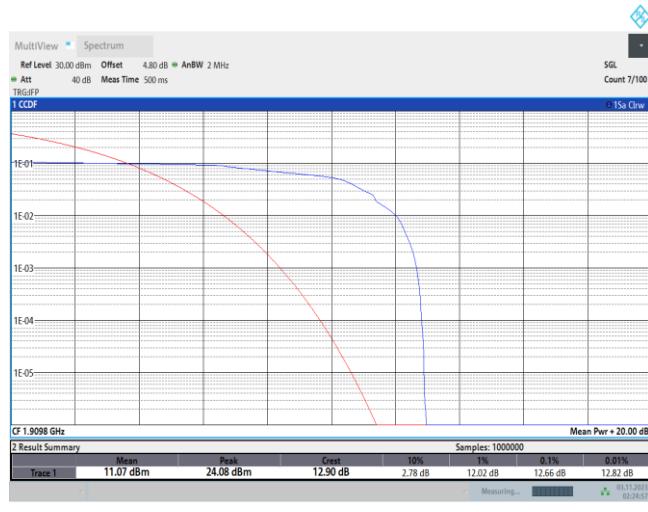
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EGPRS1900-810



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.247	0.32	---	PASS
GSM850	190	0.246	0.32	---	PASS
GSM850	251	0.246	0.32	---	PASS
EGPRS850	128	0.244	0.32	---	PASS
EGPRS850	190	0.244	0.32	---	PASS
EGPRS850	251	0.243	0.32	---	PASS
GSM1900	512	0.245	0.32	---	PASS
GSM1900	661	0.246	0.32	---	PASS
GSM1900	810	0.245	0.32	---	PASS
EGPRS1900	512	0.246	0.32	---	PASS
EGPRS1900	661	0.247	0.32	---	PASS
EGPRS1900	810	0.246	0.31	---	PASS

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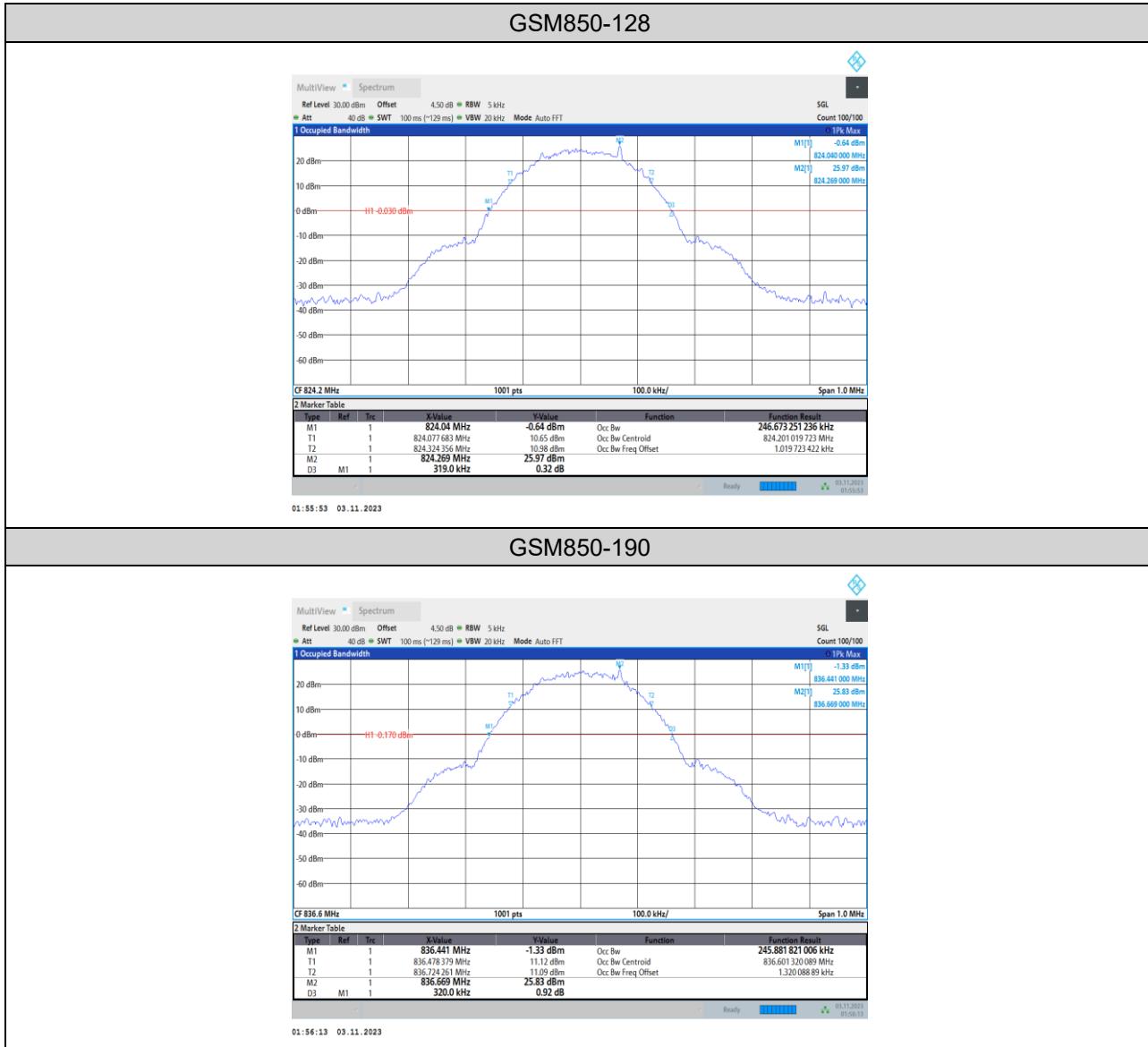
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Test Graphs



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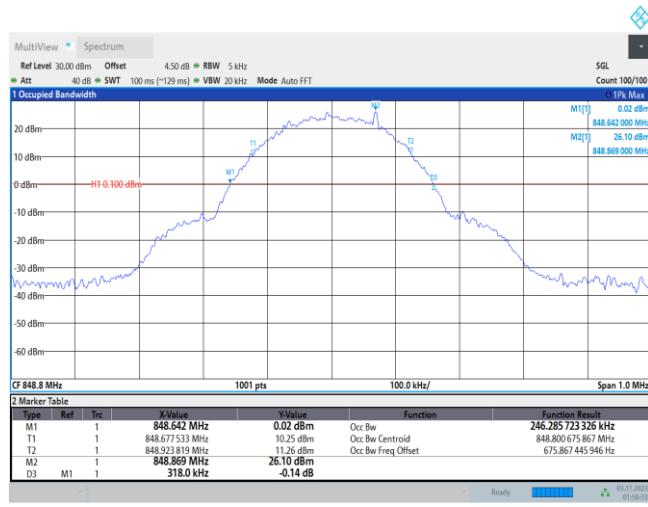
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EGPRS850-128



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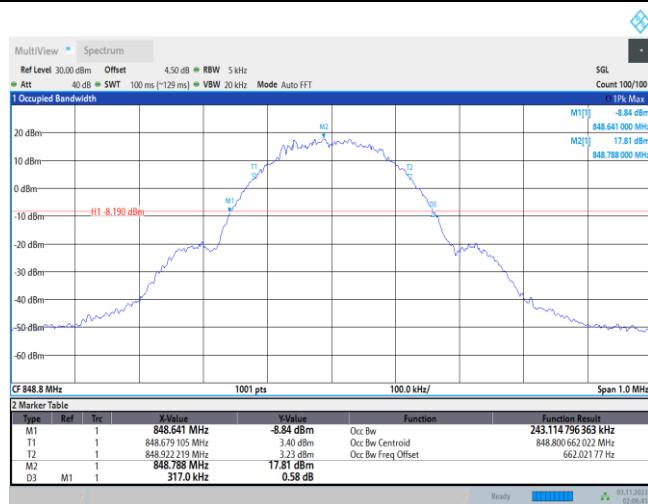
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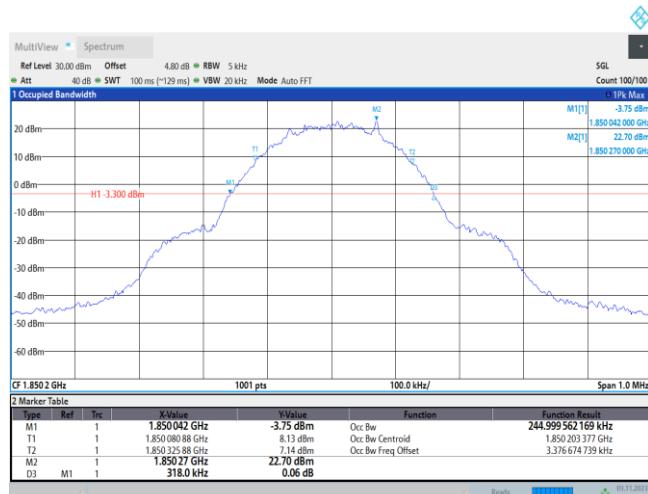
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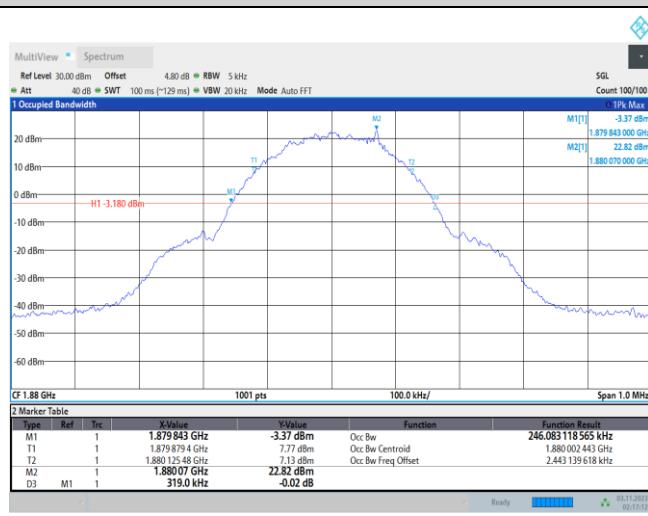
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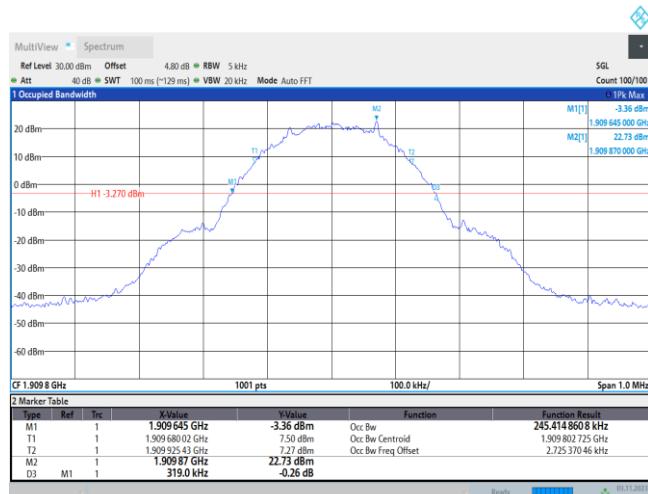
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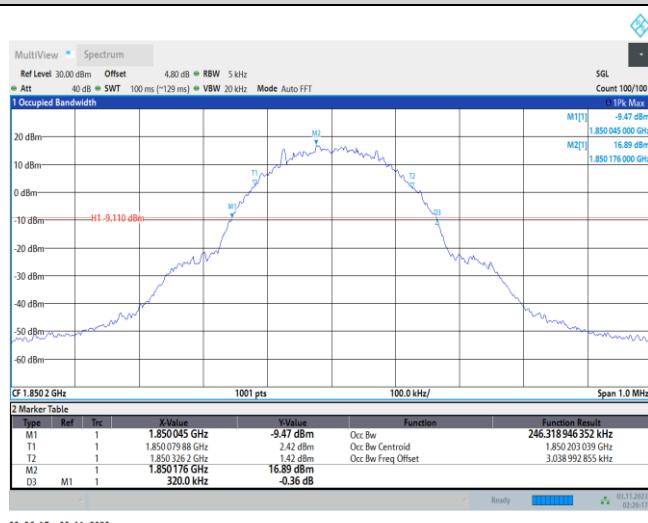


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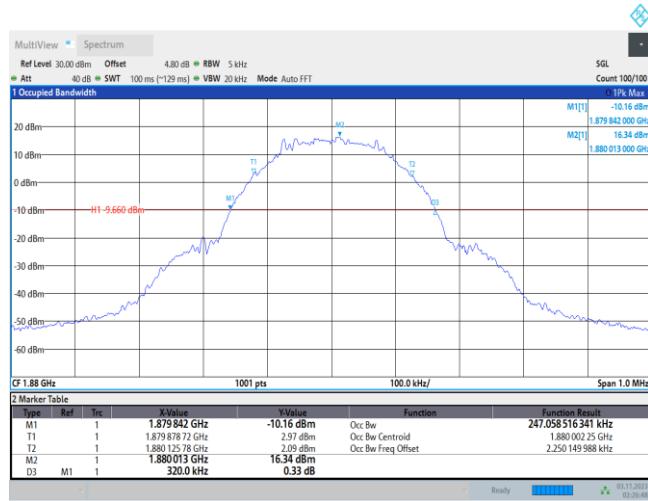
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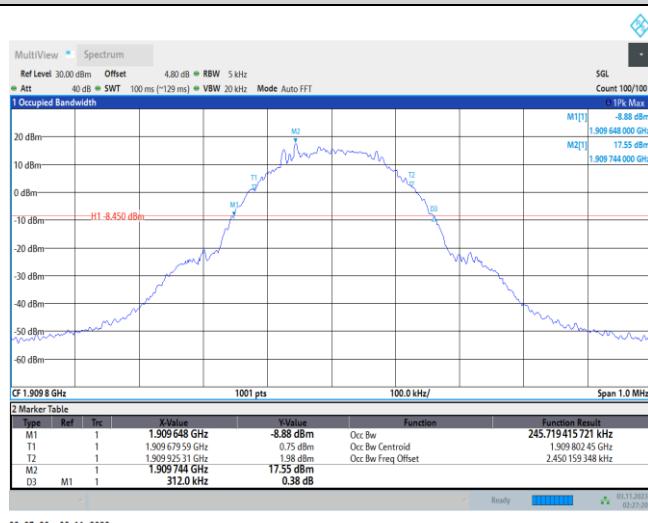


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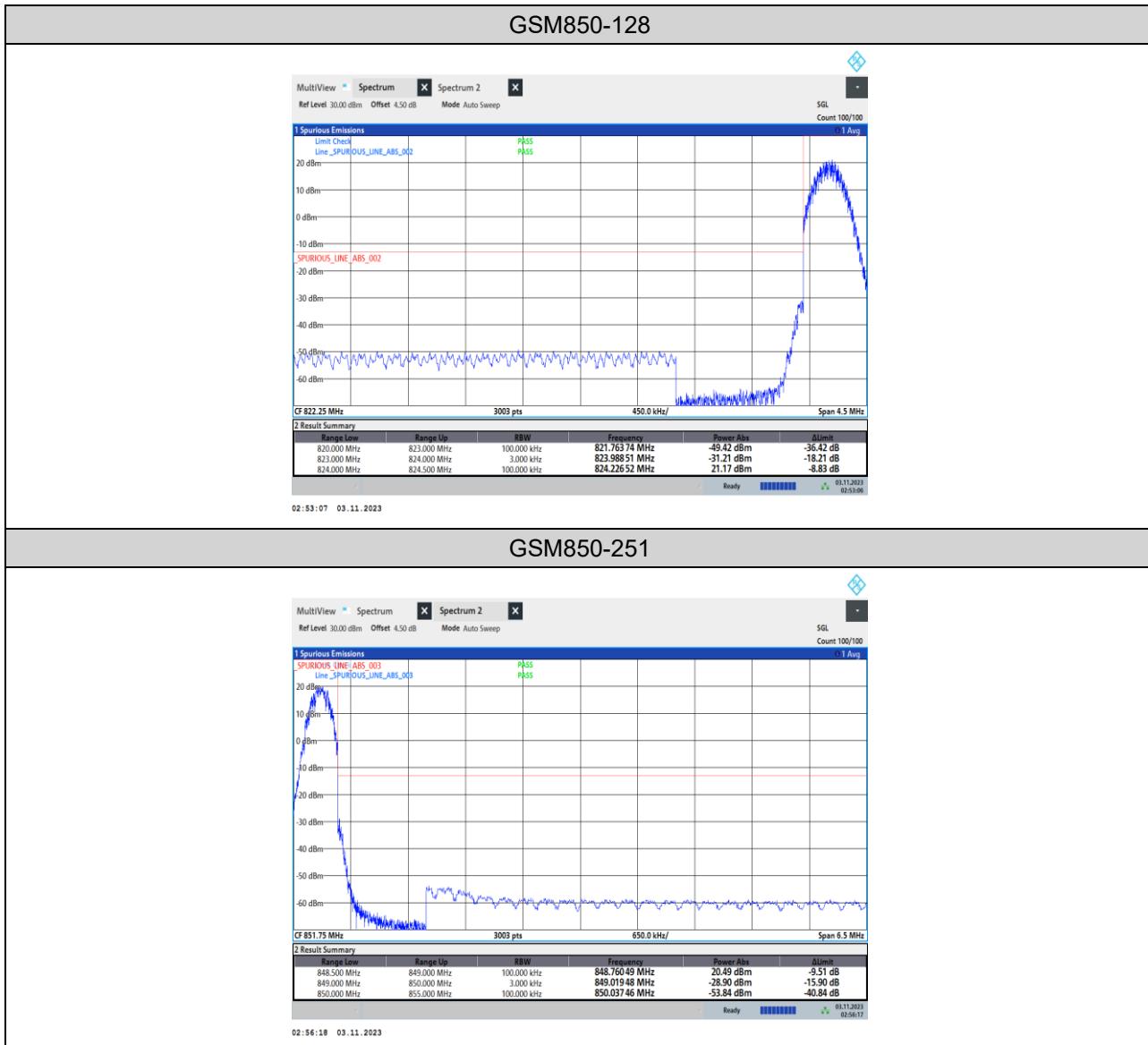
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Band Edge

Test Graphs



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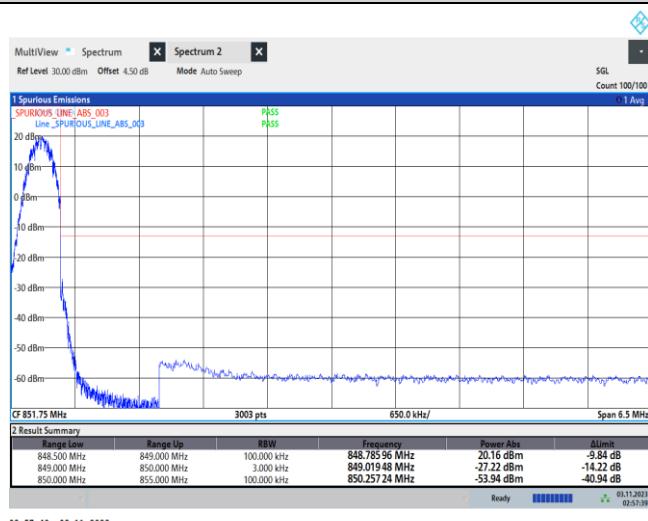
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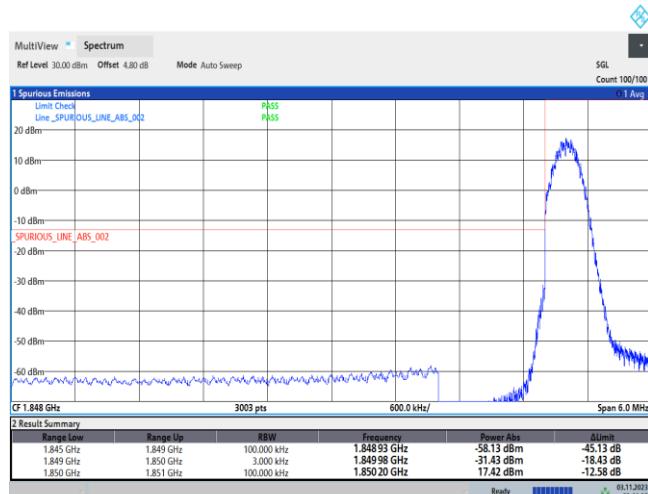
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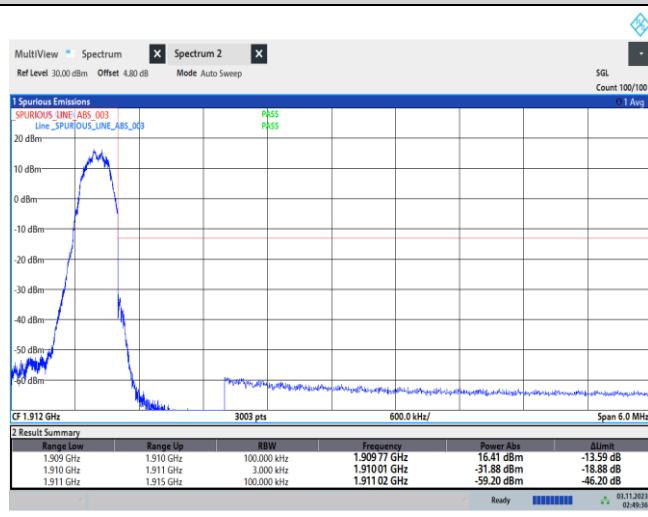
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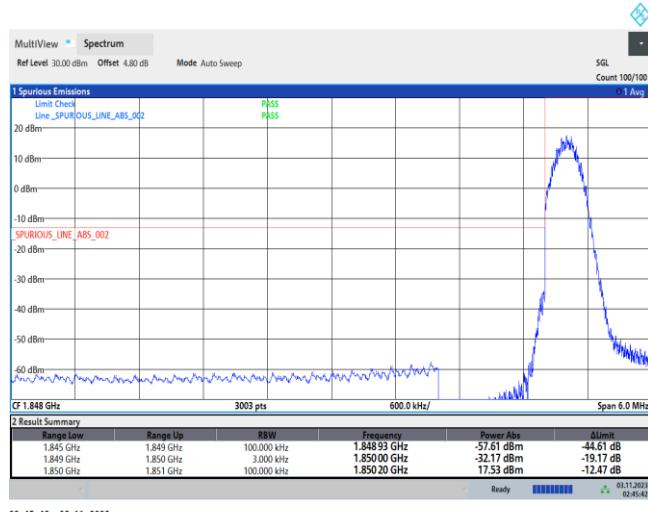
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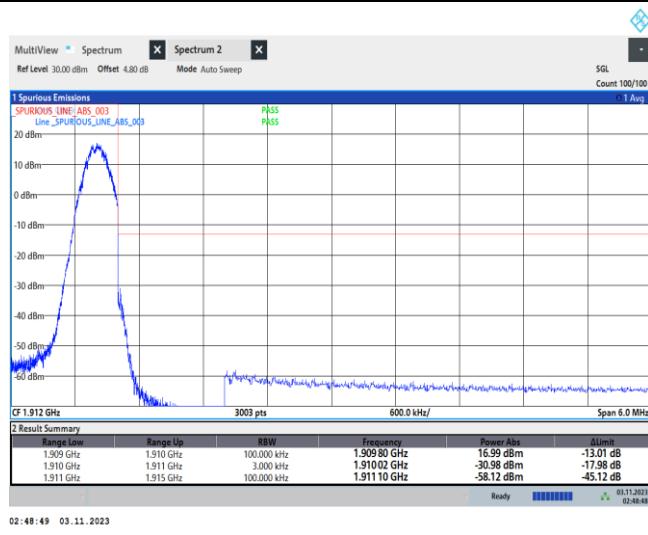
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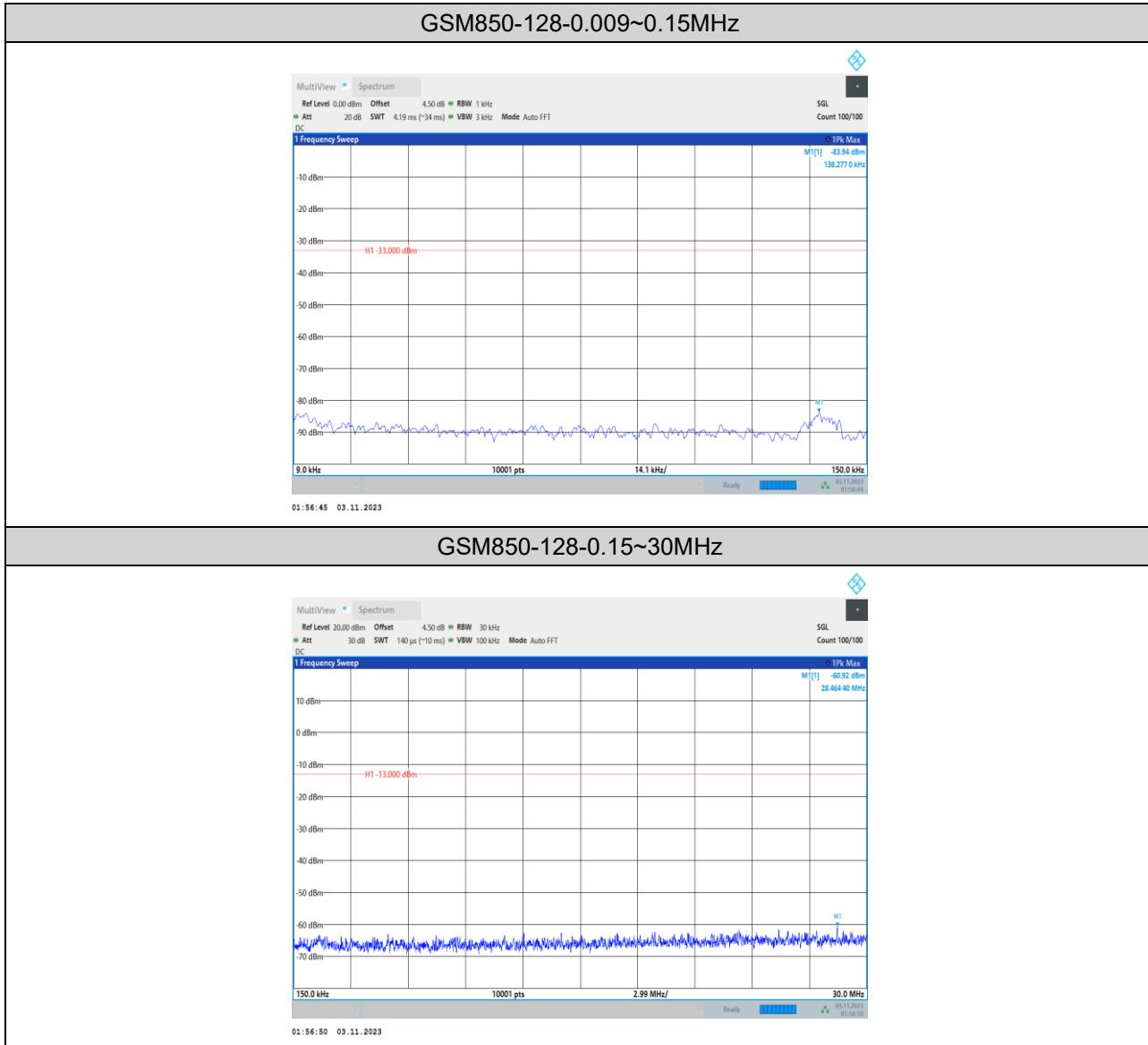
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Conducted Spurious Emission

Test Graphs



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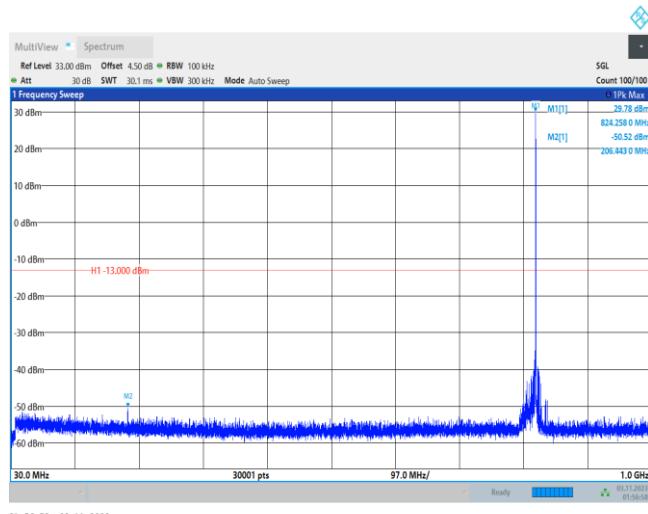
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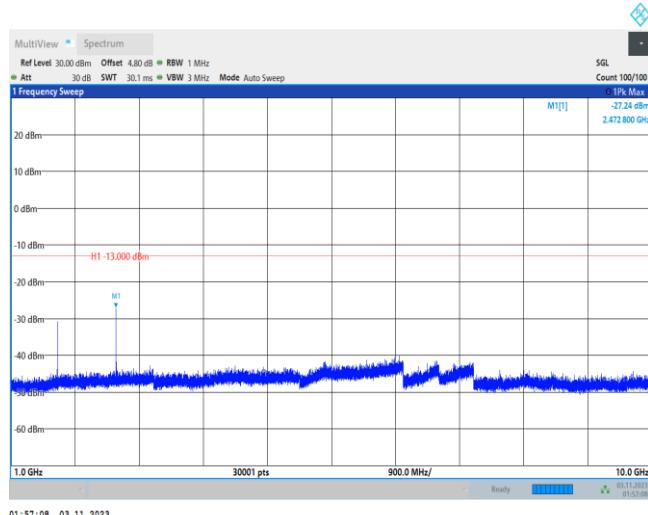
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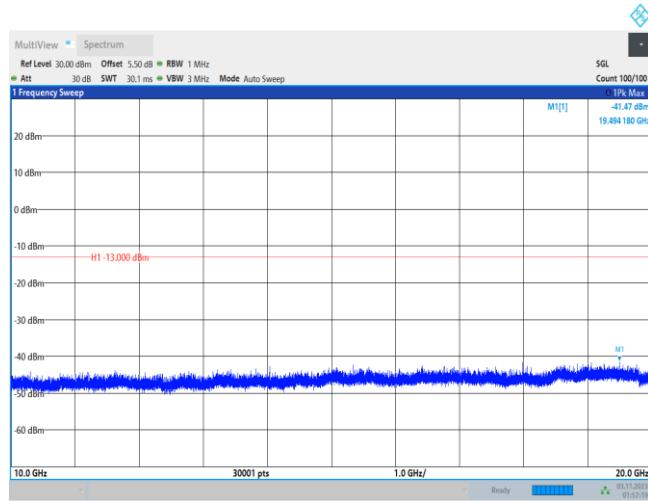
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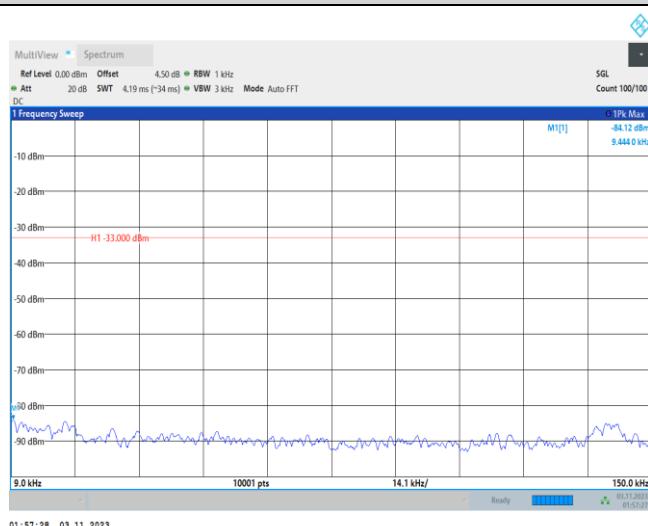
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GSM850-128-10000~20000MHz



GSM850-190-0.009~0.15MHz



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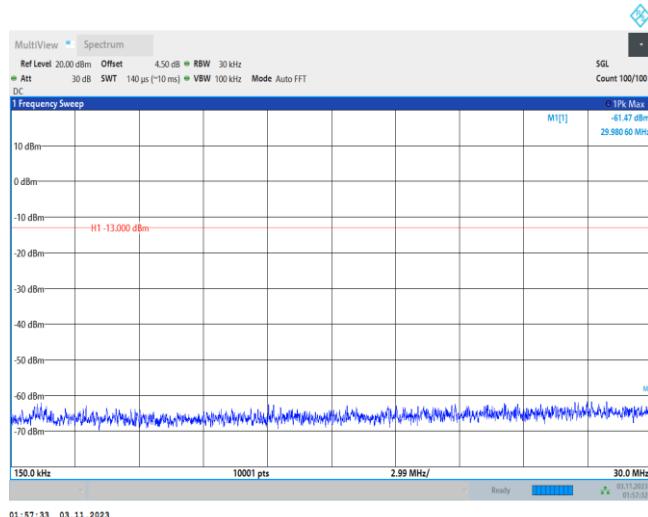
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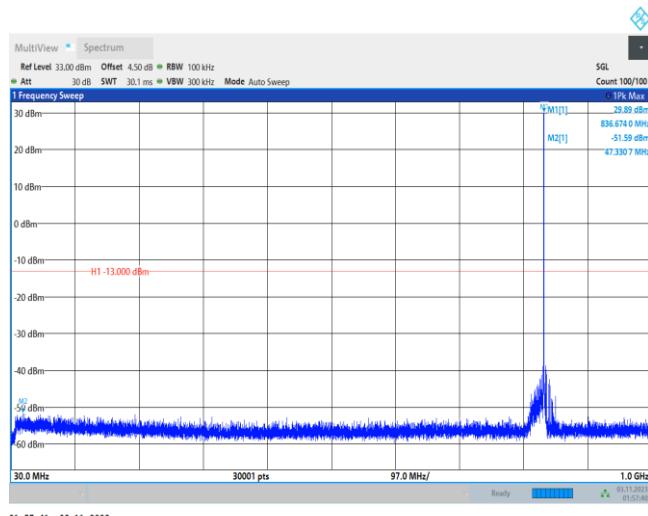
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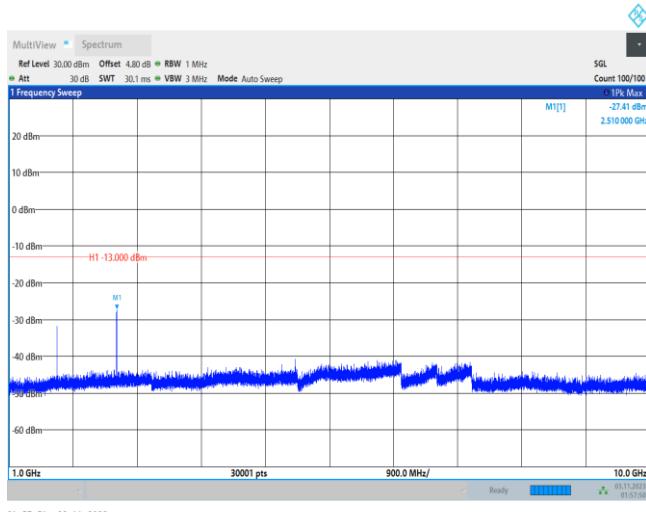
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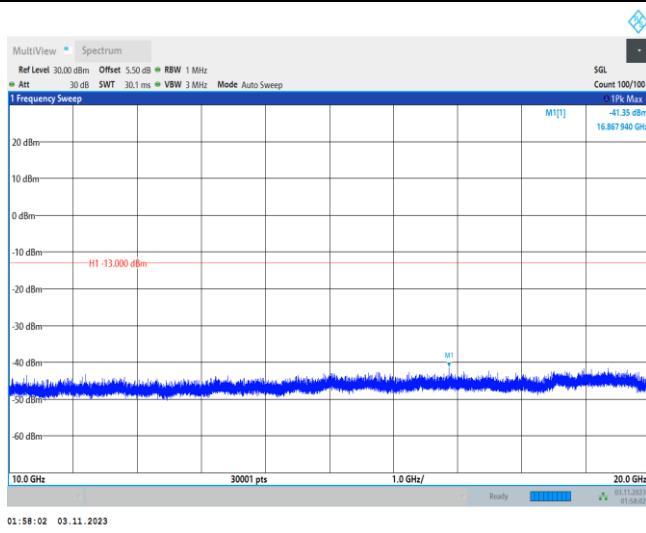
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GSM850-190-1000~10000MHz



GSM850-190-10000~20000MHz



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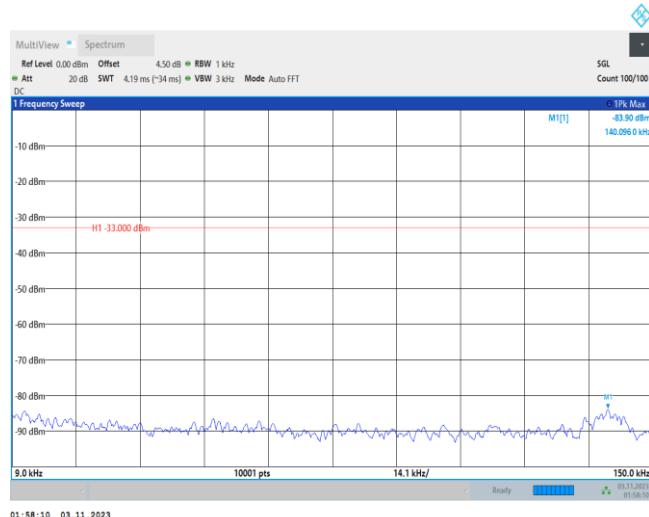
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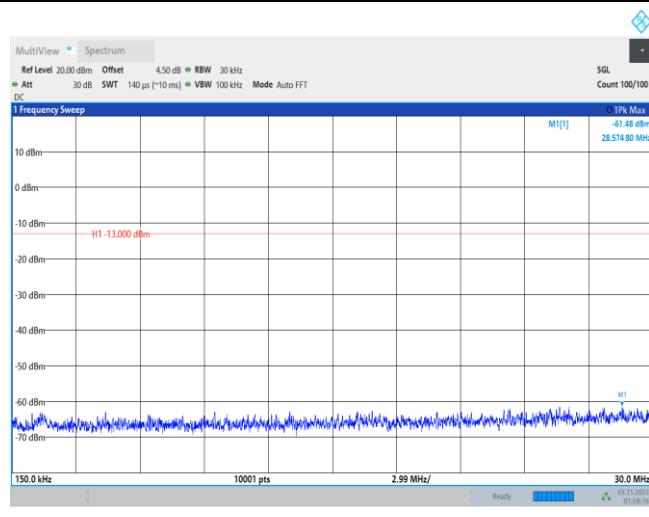
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GSM850-251-0.009~0.15MHz



01:58:10 03.11.2023

GSM850-251-0.15~30MHz



01:58:16 03.11.2023



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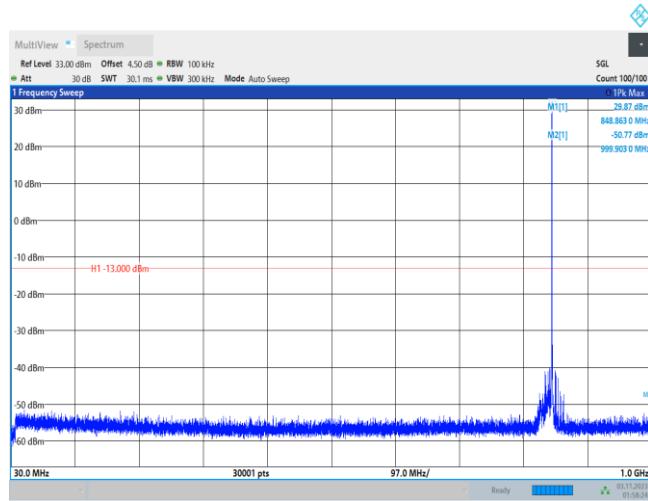
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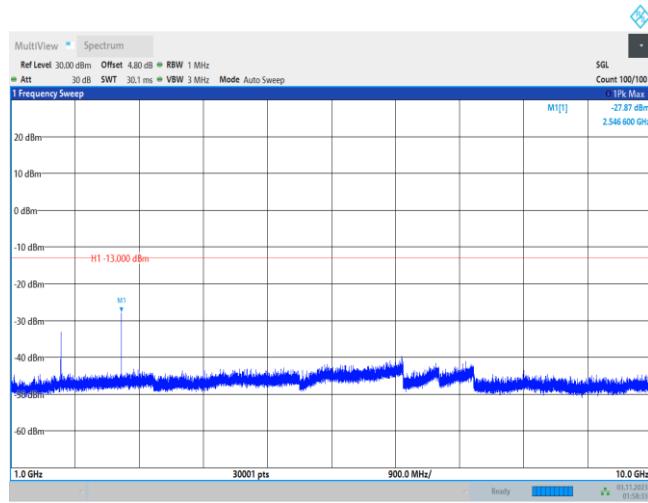
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GSM850-251-30~1000MHz



01:58:24 03.11.2023

GSM850-251-1000~10000MHz



01:58:33 03.11.2023

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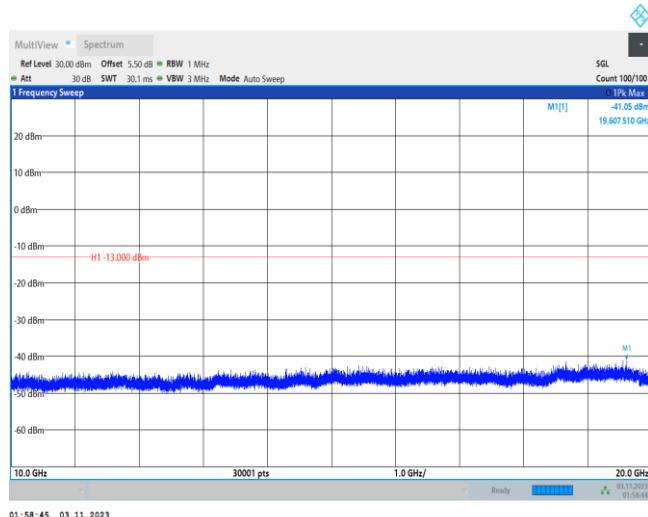
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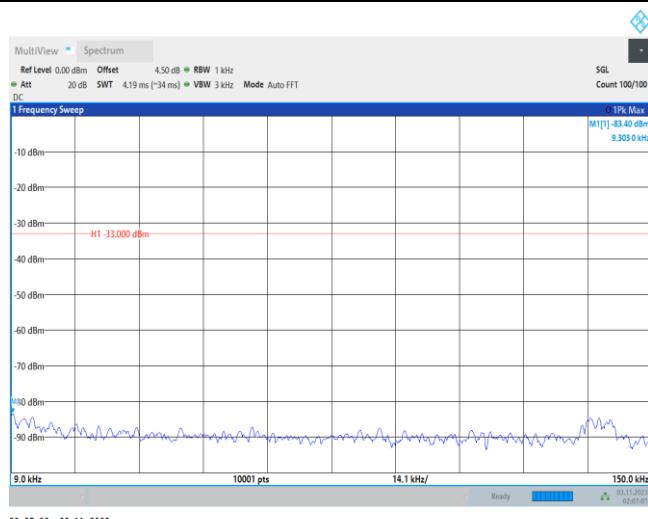
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GSM850-251-10000~20000MHz



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EGPRS850-128-0.009~0.15MHz



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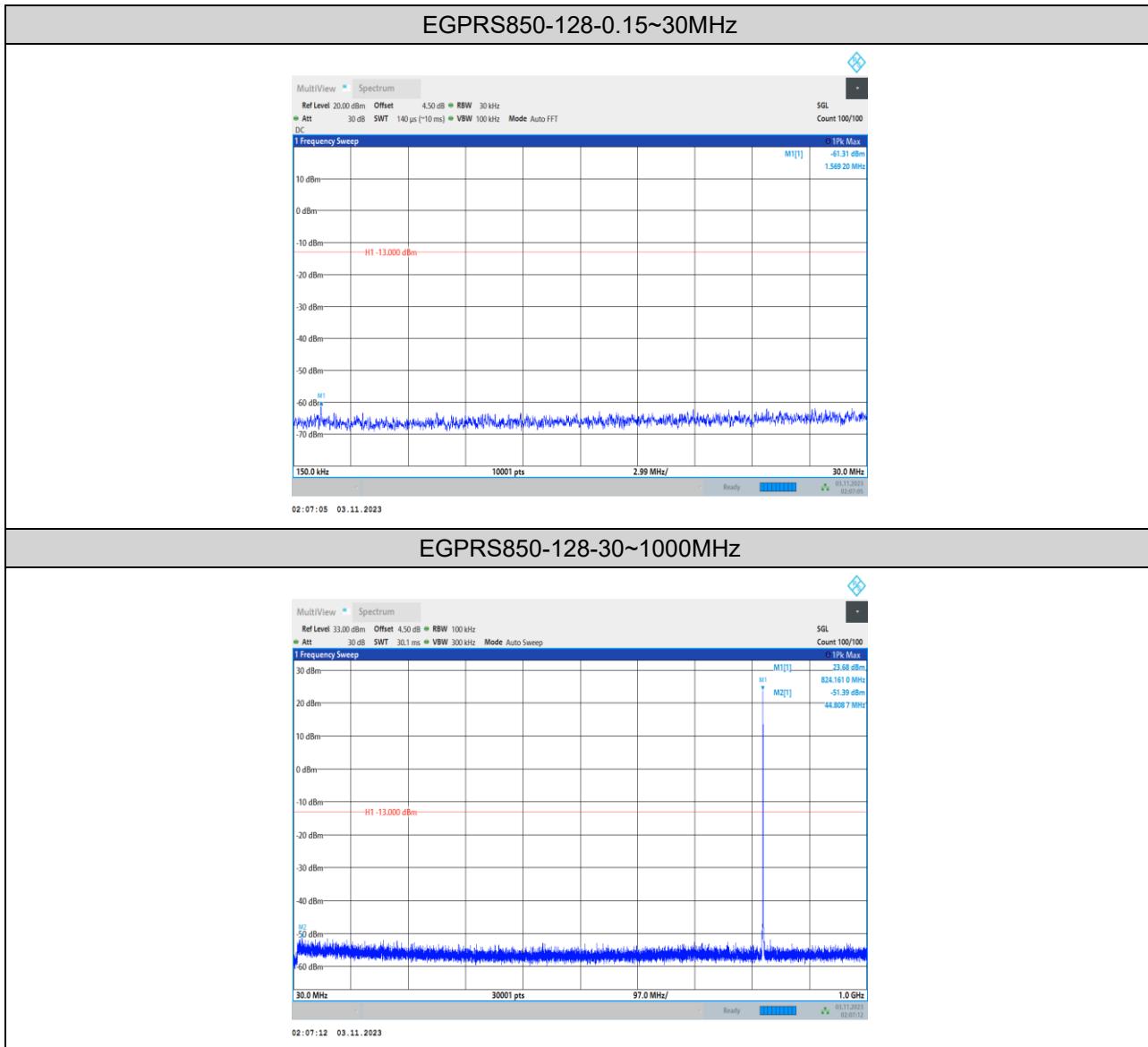
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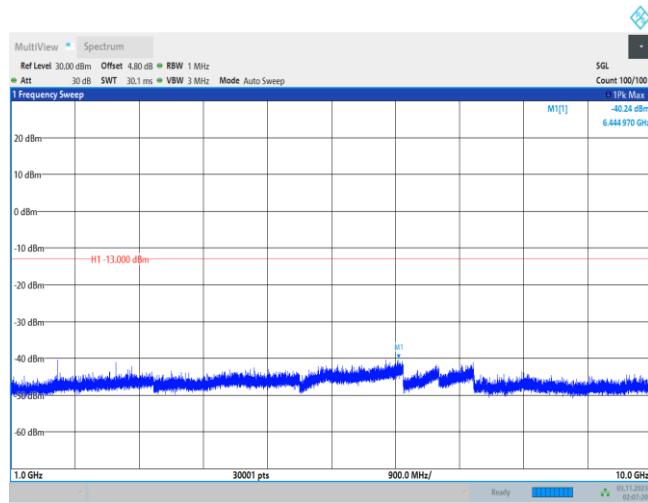
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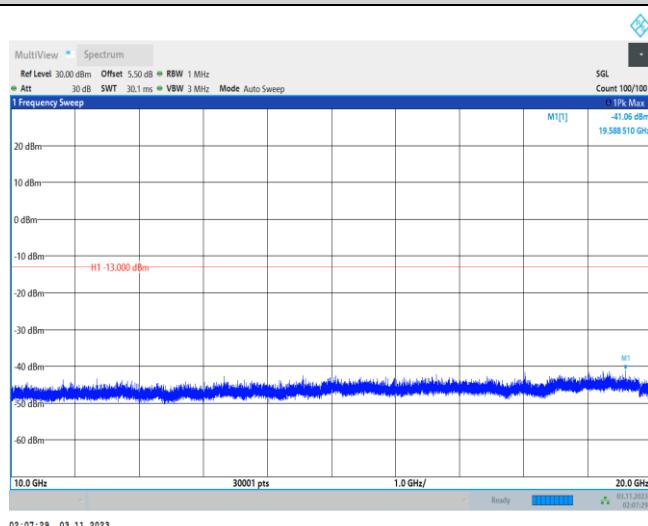
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EGPRS850-128-1000~10000MHz



EGPRS850-128-10000~20000MHz



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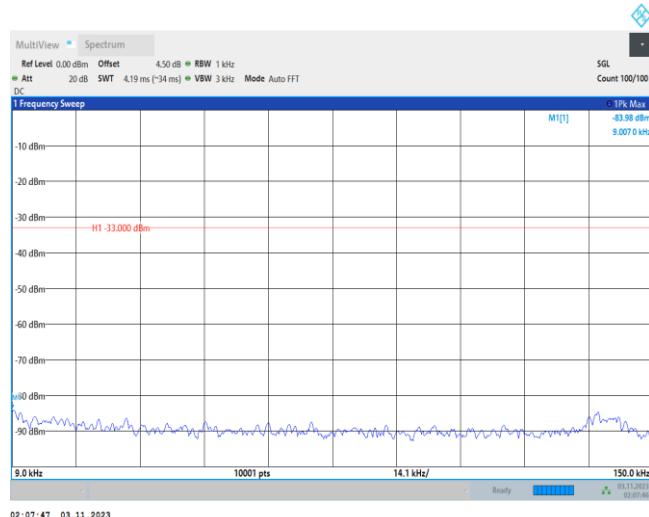


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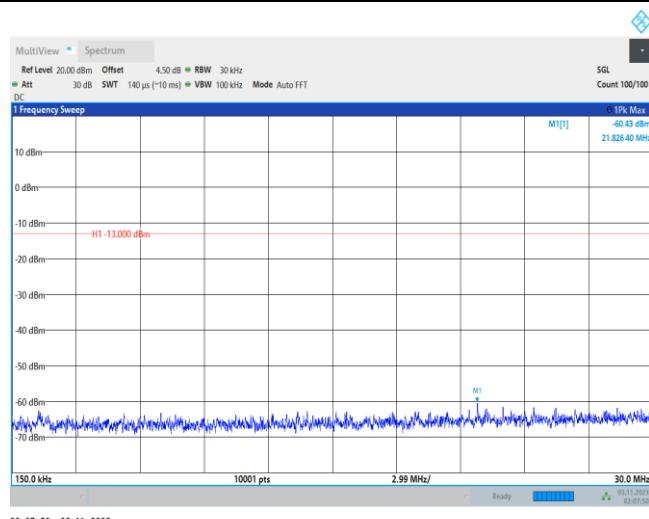
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EGPRS850-190-0.009~0.15MHz



EGPRS850-190-0.15~30MHz



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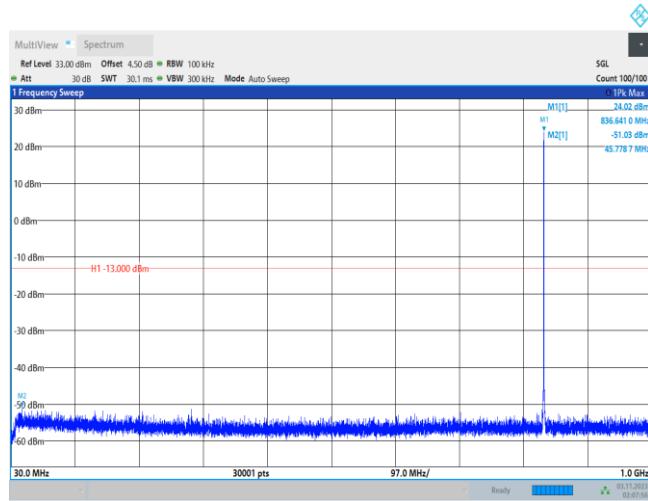
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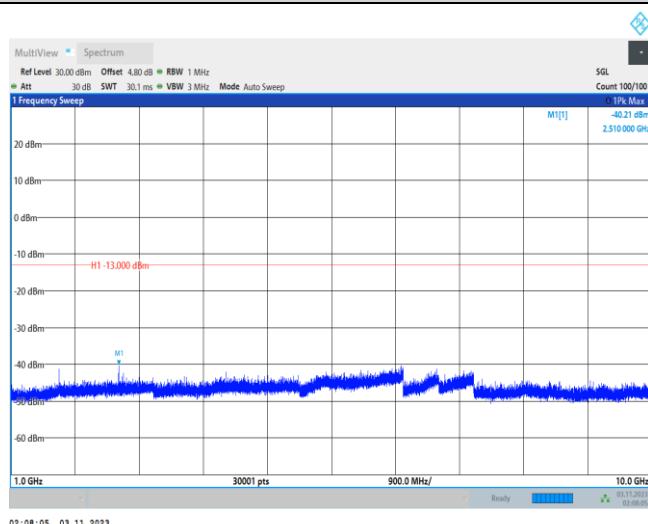
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EGPRS850-190-30~1000MHz



EGPRS850-190-1000~10000MHz



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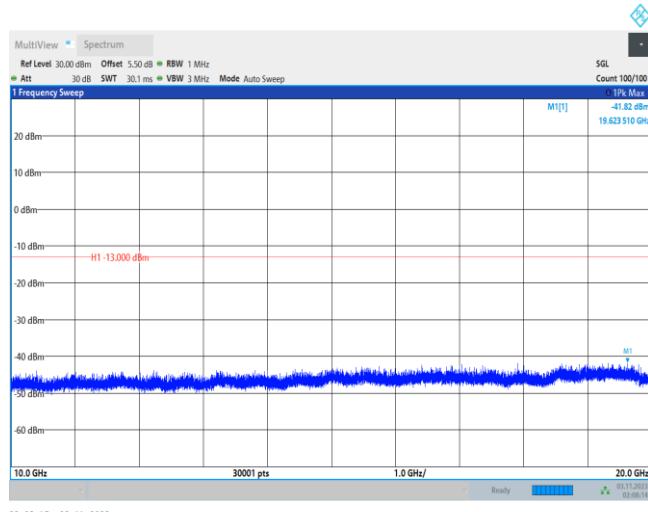
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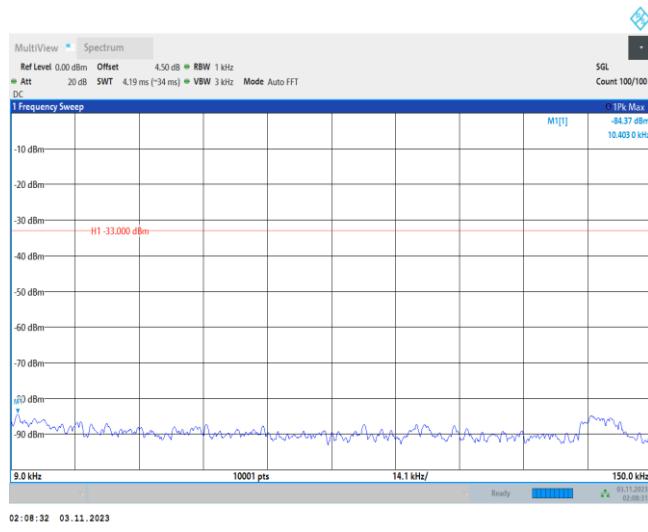
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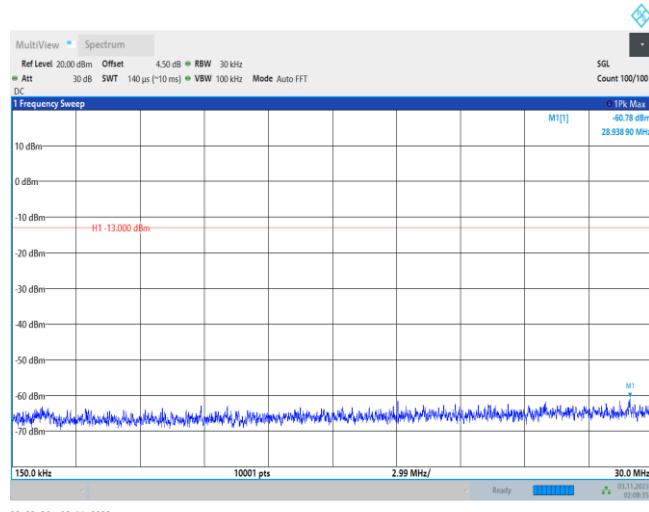
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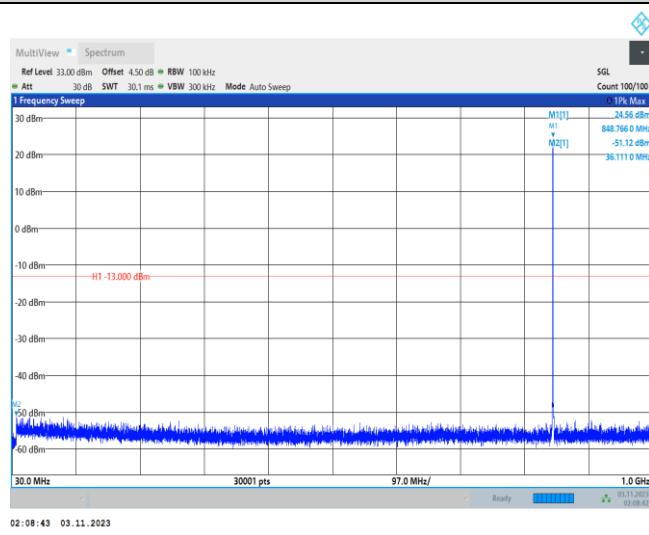
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EGPRS850-251-30~1000MHz



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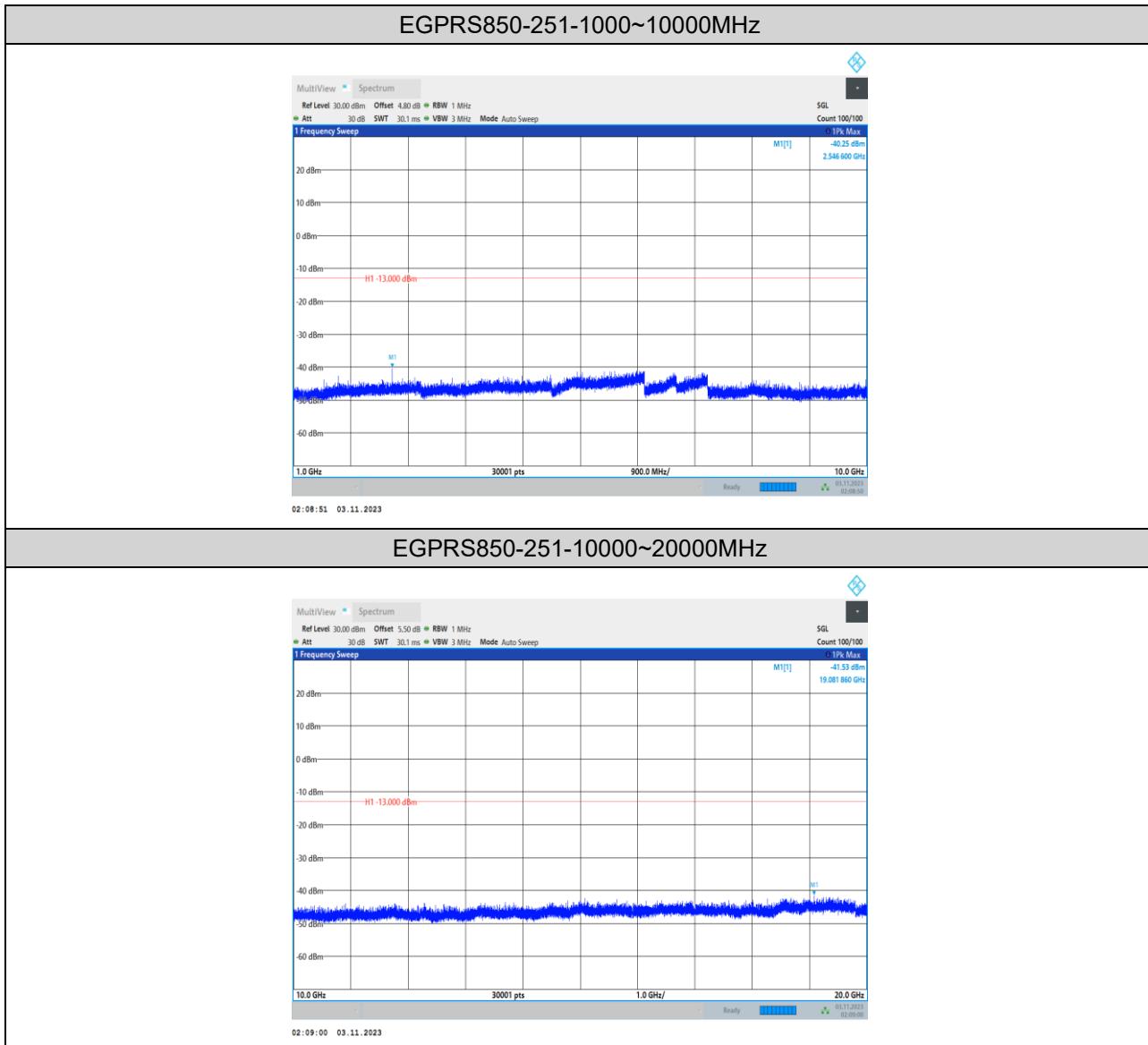
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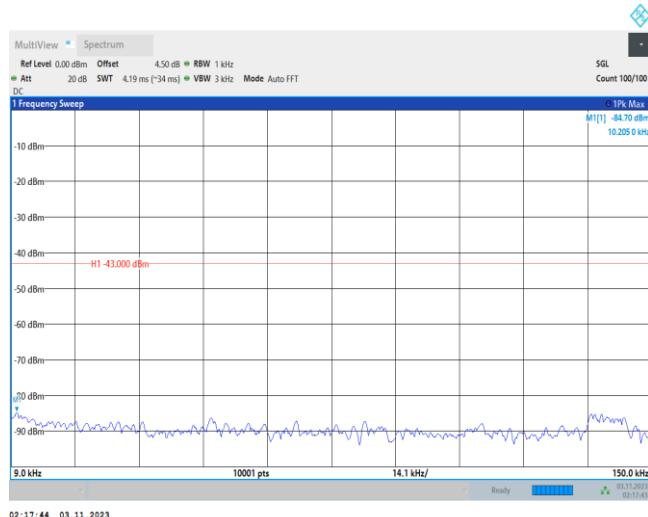
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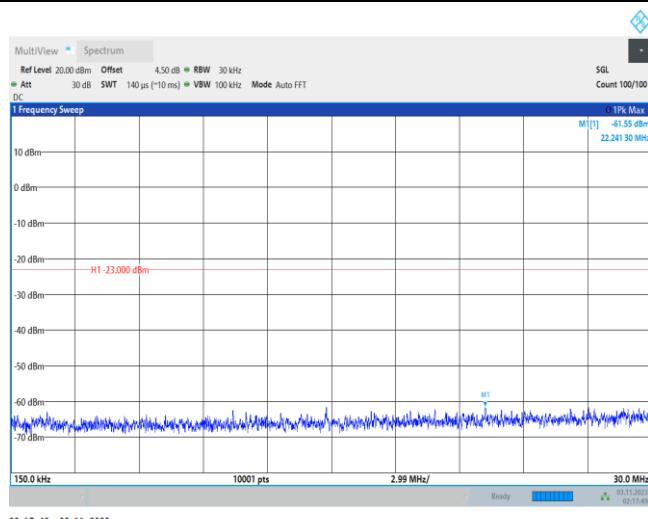
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GSM1900-512-0.009~0.15MHz



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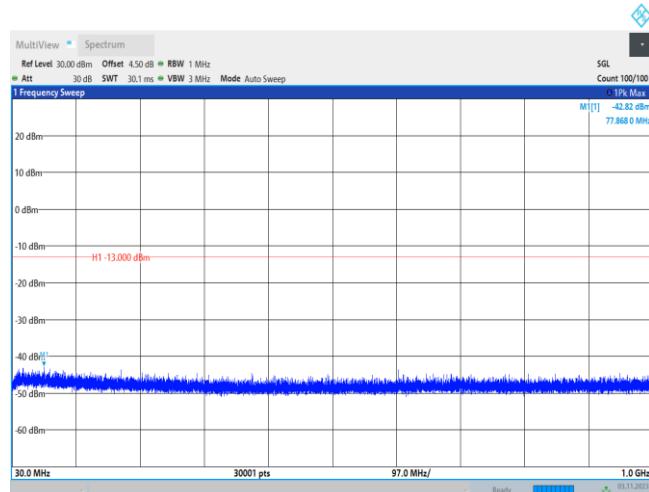
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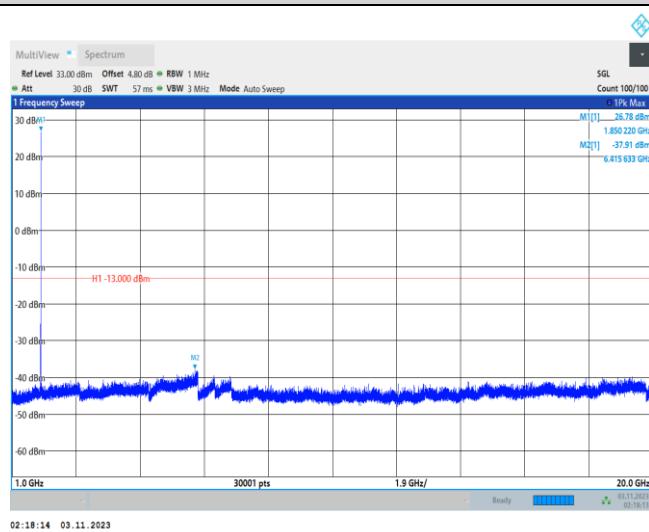
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GSM1900-512-30~1000MHz



GSM1900-512-1000~20000MHz



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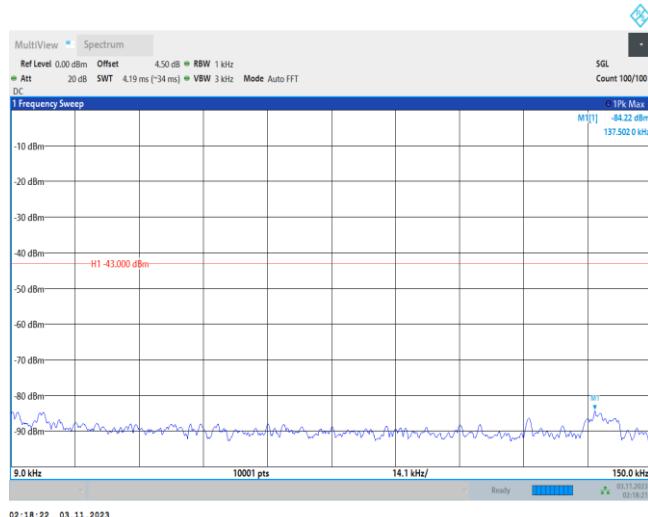
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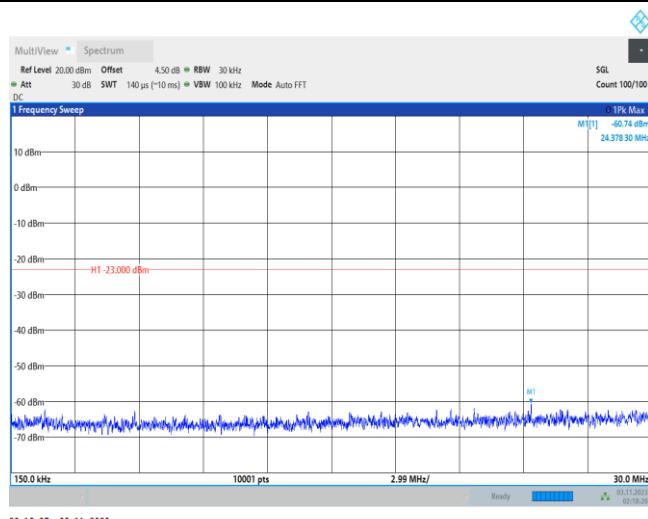
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GSM1900-661-0.009~0.15MHz



02:18:22 03.11.2023

GSM1900-661-0.15~30MHz



02:18:27 03.11.2023

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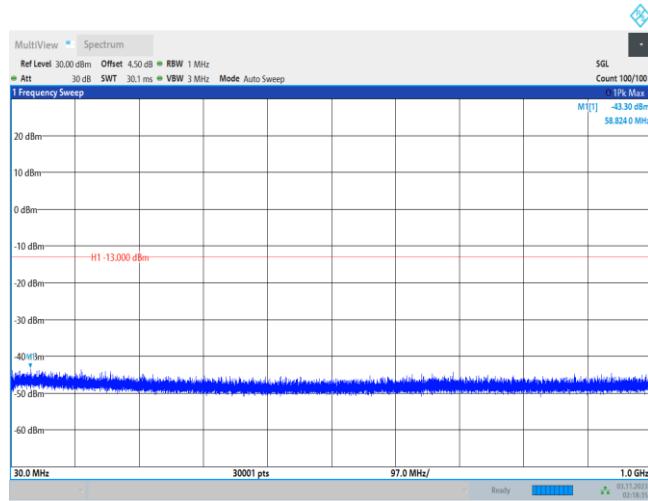
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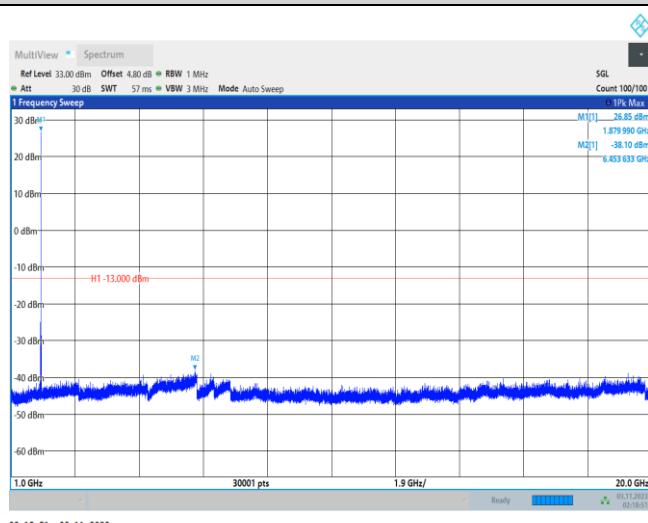
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GSM1900-661-30~1000MHz



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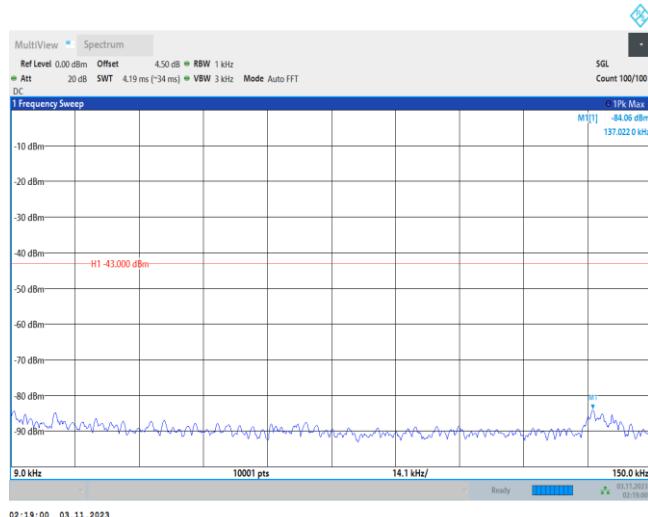
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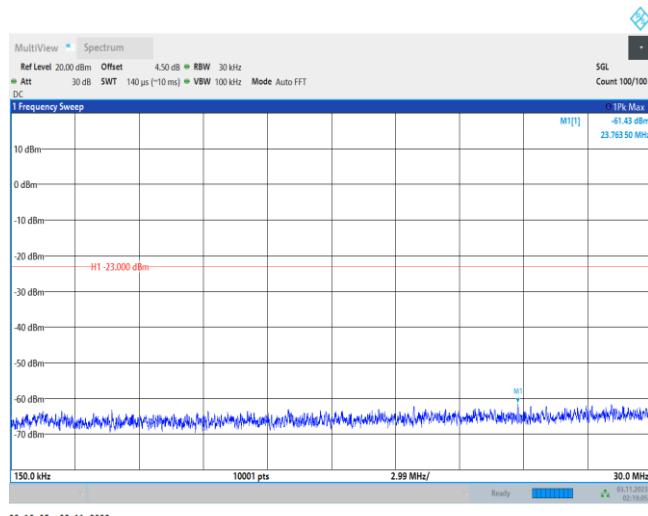
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GSM1900-810-0.009~0.15MHz



GSM1900-810-0.15~30MHz



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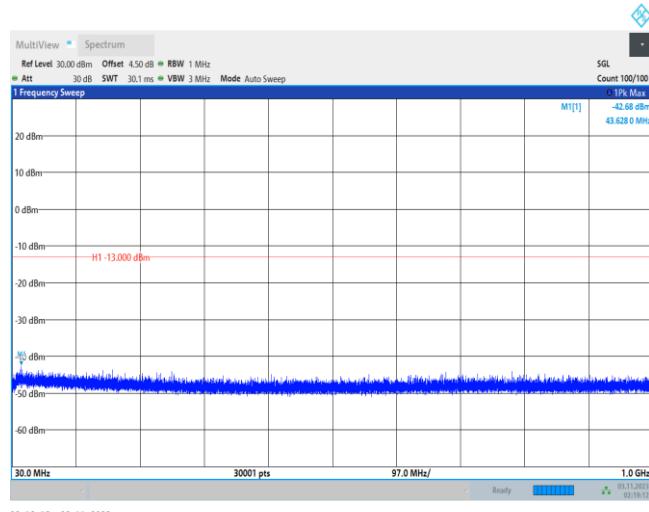
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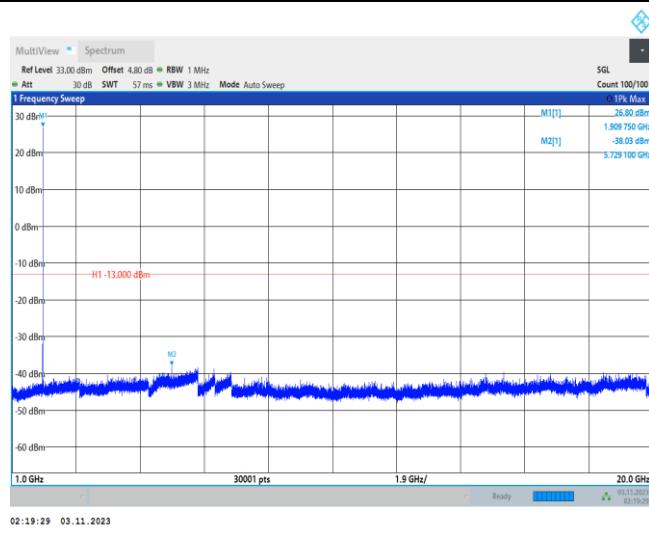
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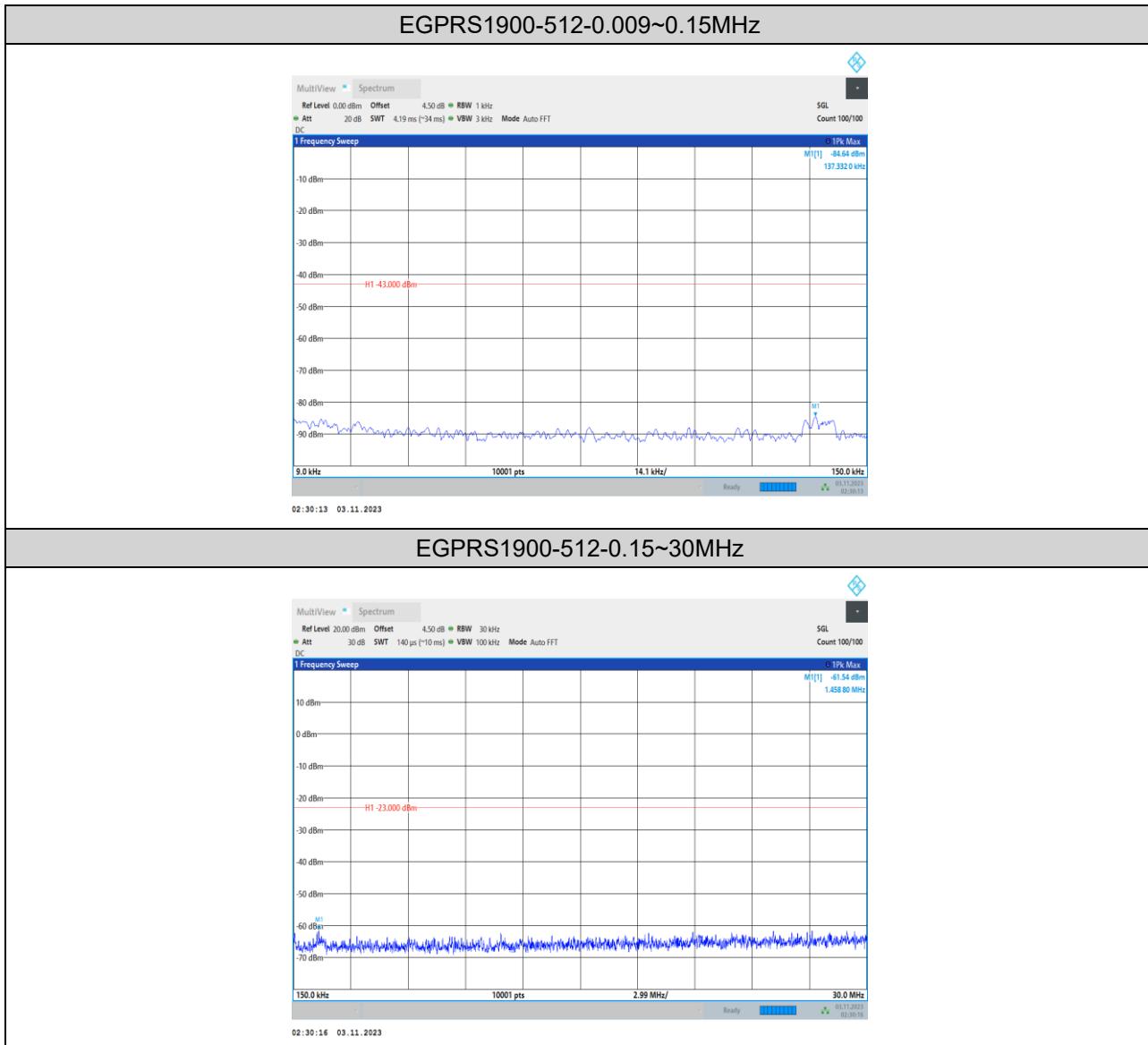
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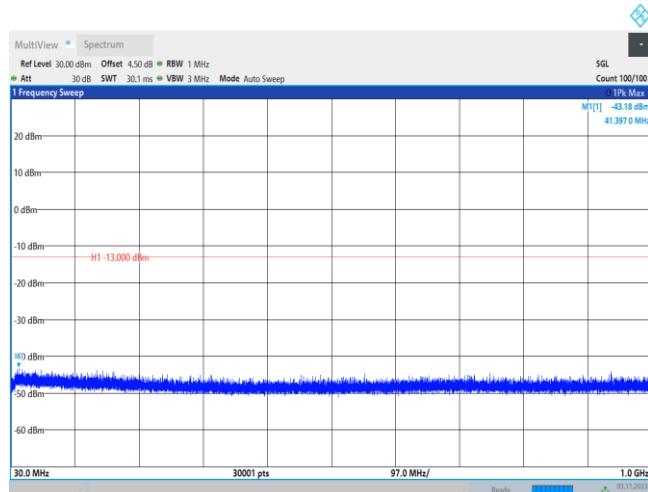
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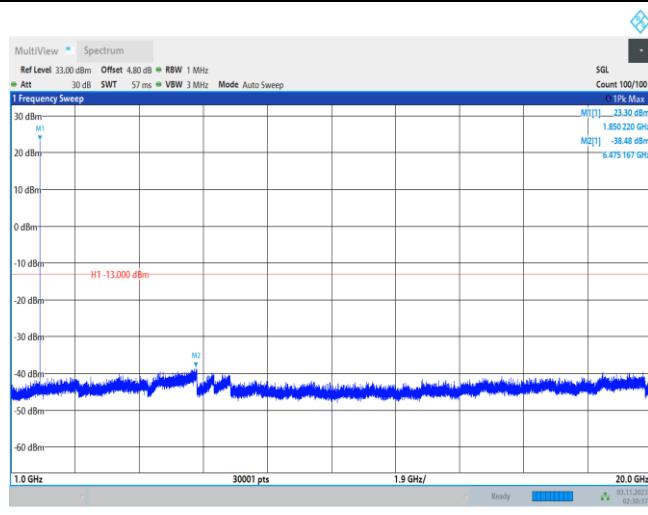
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EGPRS1900-512-30~1000MHz



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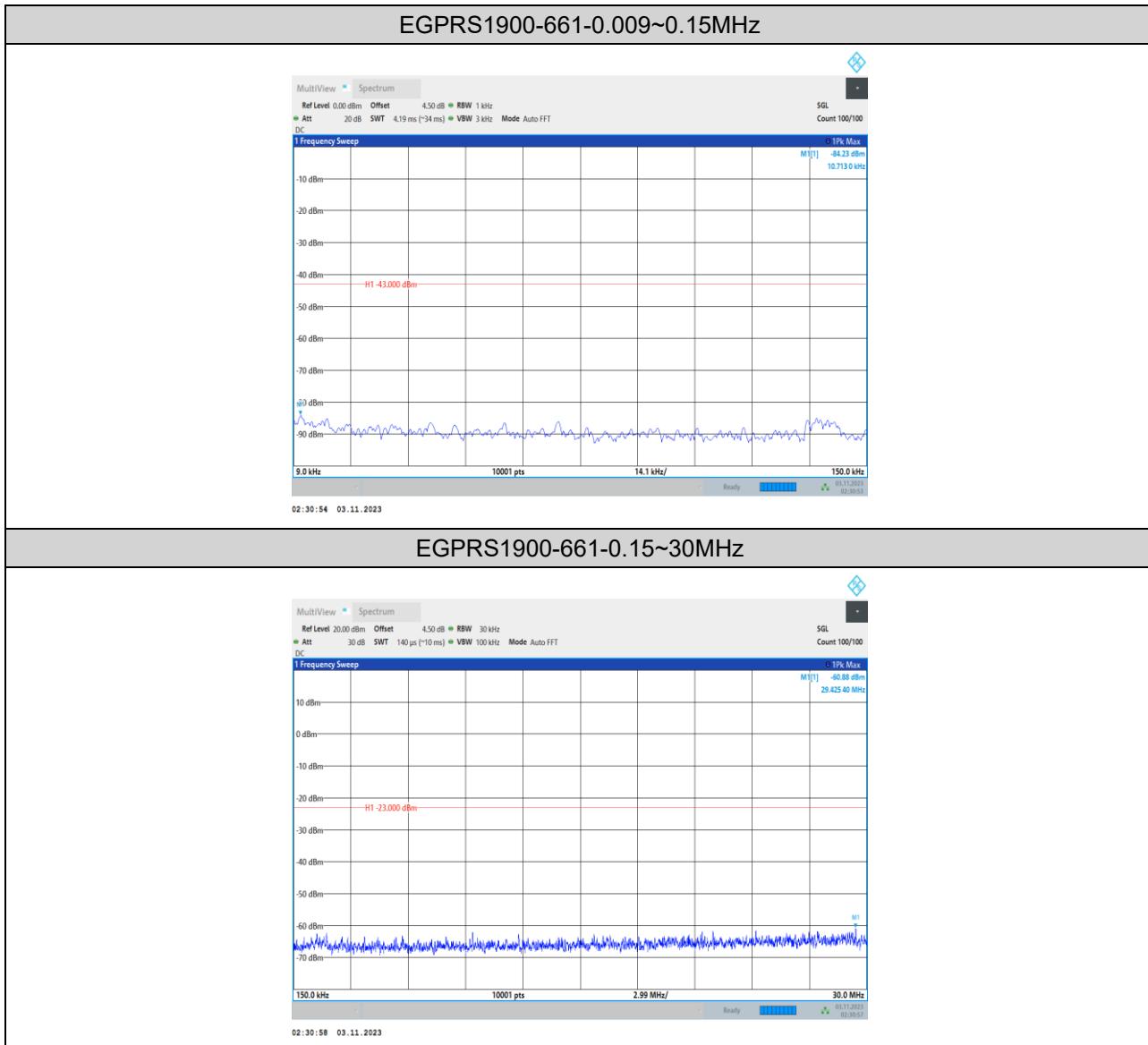
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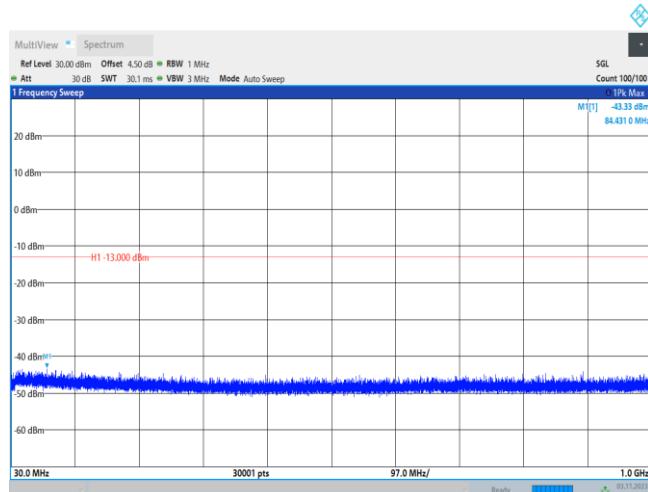
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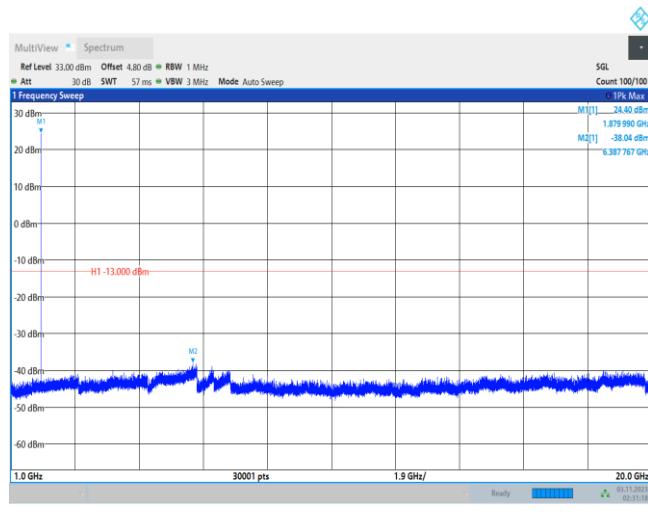
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EGPRS1900-661-1000~20000MHz



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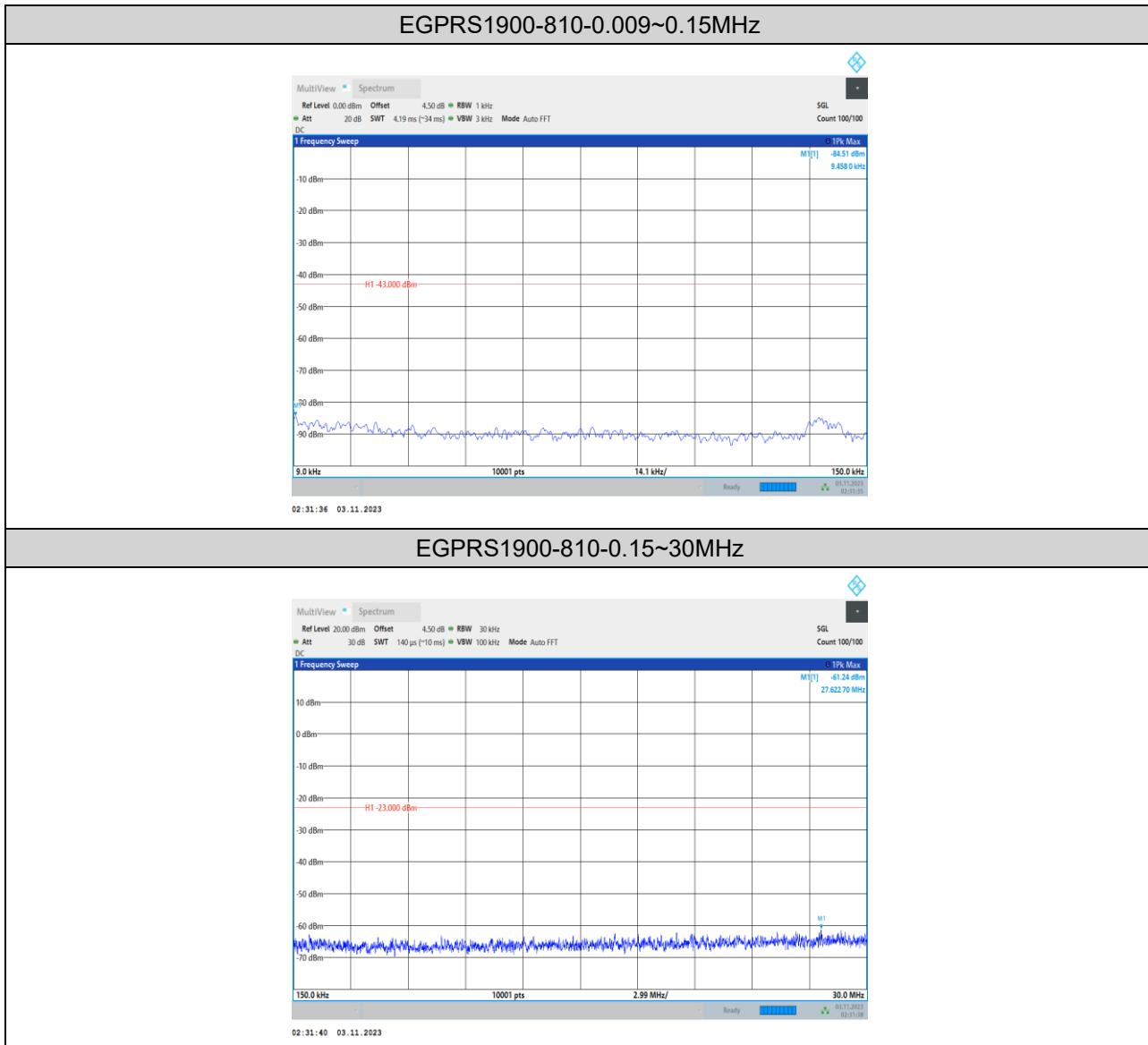
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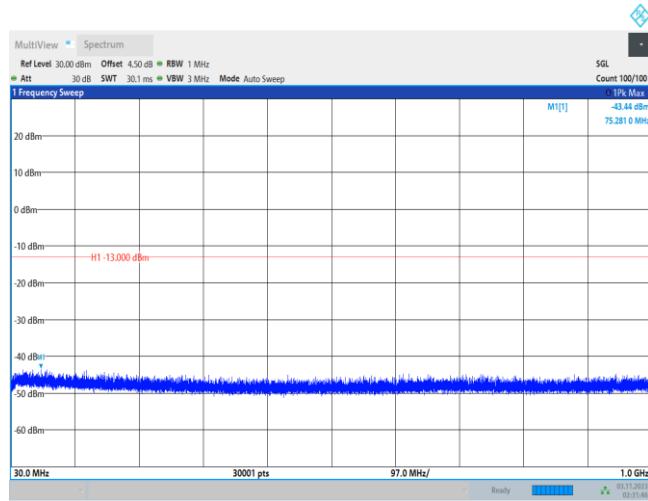
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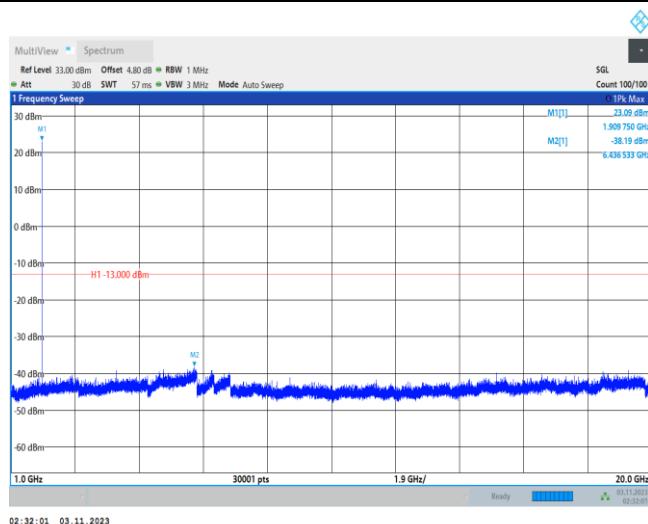
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Field Strength of Spurious Radiation

Test Band = GSM 850
Test Channel = Low Channel

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2472.4444	75.59	-49.06	27.27	-41.46	-13.00	28.46	Horizontal
2	4120.8889	51.43	-48.28	29.62	-62.49	-13.00	49.49	Horizontal
3	1648.4	86.04	-49.83	25.29	-33.75	-13.00	20.75	Horizontal
4	3296.8	69.26	-48.63	28.62	-46.01	-13.00	33.01	Horizontal
5	4945.2	46.79	-48.07	31.37	-65.18	-13.00	52.18	Horizontal
6	5769.4	46.02	-47.65	32.75	-64.14	-13.00	51.14	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4120.8889	49.62	-48.28	29.62	-64.30	-13.00	51.30	Vertical
2	5769.3333	48.60	-47.65	32.75	-61.56	-13.00	48.56	Vertical
3	1648.4	75.81	-49.83	25.29	-43.98	-13.00	30.98	Vertical
4	2472.6	73.91	-49.06	27.27	-43.14	-13.00	30.14	Vertical
5	3296.8	67.82	-48.63	28.62	-47.45	-13.00	34.45	Vertical
6	4945.2	47.99	-48.07	31.37	-63.98	-13.00	50.98	Vertical



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Test Band = GSM 850
Test Channel = Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	85.85	-49.78	25.39	-33.80	-13.00	20.80	Horizontal
2	2509.2	76.63	-48.93	27.32	-40.23	-13.00	27.23	Horizontal
3	3345.6	62.85	-48.66	28.64	-52.43	-13.00	39.43	Horizontal
4	4182	53.64	-48.34	29.73	-60.23	-13.00	47.23	Horizontal
5	5018.4	45.45	-47.95	31.54	-66.22	-13.00	53.22	Horizontal
6	5854.8	44.73	-47.33	32.77	-65.09	-13.00	52.09	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	81.02	-49.78	25.39	-38.63	-13.00	25.63	Vertical
2	2509.2	71.87	-48.93	27.32	-44.99	-13.00	31.99	Vertical
3	3345.6	63.94	-48.66	28.64	-51.34	-13.00	38.34	Vertical
4	4182	52.16	-48.34	29.73	-61.71	-13.00	48.71	Vertical
5	5018.4	44.77	-47.95	31.54	-66.90	-13.00	53.90	Vertical
6	5854.8	47.73	-47.33	32.77	-62.09	-13.00	49.09	Vertical



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Test Band = GSM 850
Test Channel = High Channel

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6	86.78	-49.72	25.49	-32.71	-13.00	19.71	Horizontal
2	2546.4	76.13	-49.03	27.41	-40.74	-13.00	27.74	Horizontal
3	3395.2	66.85	-48.69	28.66	-48.44	-13.00	35.44	Horizontal
4	4244	53.56	-48.21	29.84	-60.08	-13.00	47.08	Horizontal
5	5092.8	43.50	-47.92	31.72	-67.96	-13.00	54.96	Horizontal
6	5941.6	43.69	-47.26	32.79	-66.04	-13.00	53.04	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2546.2222	70.60	-49.02	27.41	-46.27	-13.00	33.27	Vertical
2	3395.1111	65.26	-48.69	28.66	-50.03	-13.00	37.03	Vertical
3	1697.6	80.29	-49.72	25.49	-39.20	-13.00	26.20	Vertical
4	4244	51.43	-48.21	29.84	-62.21	-13.00	49.21	Vertical
5	5092.8	43.32	-47.92	31.72	-68.14	-13.00	55.14	Vertical
6	5941.6	44.85	-47.26	32.79	-64.88	-13.00	51.88	Vertical



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Test Band = GSM 1900
Test Channel = Low Channel

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.25	73.95	-48.50	28.99	-40.82	-13.00	27.82	Horizontal
2	5556	70.13	-47.66	32.71	-40.08	-13.00	27.08	Horizontal
3	7408.5	53.14	-46.17	36.58	-51.71	-13.00	38.71	Horizontal
4	9260.25	55.37	-43.14	37.83	-45.20	-13.00	32.20	Horizontal
5	12964.5	41.83	-39.40	38.62	-54.21	-13.00	41.21	Horizontal
6	11101.2	36.93	-40.36	39.38	-59.31	-13.00	46.31	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.25	72.74	-48.50	28.99	-42.03	-13.00	29.03	Vertical
2	5556	76.13	-47.66	32.71	-34.08	-13.00	21.08	Vertical
3	7407.75	56.56	-46.17	36.58	-48.29	-13.00	35.29	Vertical
4	9260.25	59.00	-43.14	37.83	-41.57	-13.00	28.57	Vertical
5	11101.2	37.13	-40.36	39.38	-59.11	-13.00	46.11	Vertical
6	12951.4	36.65	-39.41	38.63	-59.39	-13.00	46.39	Vertical

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Test Band = GSM 1900
Test Channel = Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	77.03	-48.31	29.06	-37.48	-13.00	24.48	Horizontal
2	5640	71.15	-47.62	32.73	-39.00	-13.00	26.00	Horizontal
3	7520	49.50	-45.85	36.78	-54.83	-13.00	41.83	Horizontal
4	9400	56.79	-43.05	37.96	-43.56	-13.00	30.56	Horizontal
5	11280	37.50	-40.44	39.34	-58.85	-13.00	45.85	Horizontal
6	13160	35.82	-38.58	38.97	-59.05	-13.00	46.05	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759.75	76.67	-48.31	29.06	-37.84	-13.00	24.84	Vertical
2	9399.75	55.79	-43.05	37.96	-44.56	-13.00	31.56	Vertical
3	5640	72.65	-47.62	32.73	-37.50	-13.00	24.50	Vertical
4	7520	49.21	-45.85	36.78	-55.12	-13.00	42.12	Vertical
5	11280	37.37	-40.44	39.34	-58.98	-13.00	45.98	Vertical
6	13160	35.83	-38.58	38.97	-59.04	-13.00	46.04	Vertical

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Test Band = GSM 1900
Test Channel = High Channel

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5729.25	70.98	-47.54	32.75	-39.07	-13.00	26.07	Horizontal
2	3819.6	77.86	-48.20	29.15	-36.45	-13.00	23.45	Horizontal
3	7639.2	49.49	-44.82	36.63	-53.96	-13.00	40.96	Horizontal
4	9549	62.48	-42.31	38.09	-36.99	-13.00	23.99	Horizontal
5	11458.8	37.81	-40.07	39.31	-58.21	-13.00	45.21	Horizontal
6	13368.6	36.50	-39.15	39.45	-58.46	-13.00	45.46	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5729.25	72.05	-47.54	32.75	-38.00	-13.00	25.00	Vertical
2	3819.6	76.29	-48.20	29.15	-38.02	-13.00	25.02	Vertical
3	7639.2	52.68	-44.82	36.63	-50.77	-13.00	37.77	Vertical
4	9549	58.33	-42.31	38.09	-41.14	-13.00	28.14	Vertical
5	11458.8	36.96	-40.07	39.31	-59.06	-13.00	46.06	Vertical
6	13368.6	36.89	-39.15	39.45	-58.07	-13.00	45.07	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



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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	-11.72	-0.014009	±2.5	PASS
GSM850	190	VN	NT	-10.40	-0.012431	±2.5	PASS
GSM850	190	VH	NT	-9.98	-0.011929	±2.5	PASS
EGPRS850	190	VL	NT	-6.49	-0.007758	±2.5	PASS
EGPRS850	190	VN	NT	-4.65	-0.005558	±2.5	PASS
EGPRS850	190	VH	NT	-8.94	-0.010686	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	-19.44	-0.010340	PASS
GSM1900	661	VN	NT	-18.11	-0.009633	PASS
GSM1900	661	VH	NT	-14.69	-0.007814	PASS
EGPRS1900	661	VL	NT	-5.10	-0.002713	PASS
EGPRS1900	661	VN	NT	-3.75	-0.001995	PASS
EGPRS1900	661	VH	NT	-0.90	-0.000479	PASS

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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	-9.91	-0.011846	±2.5	PASS
GSM850	190	NV	-20	-9.40	-0.011236	±2.5	PASS
GSM850	190	NV	-10	-12.56	-0.015013	±2.5	PASS
GSM850	190	NV	0	-10.36	-0.012383	±2.5	PASS
GSM850	190	NV	10	-11.88	-0.014200	±2.5	PASS
GSM850	190	NV	20	-14.98	-0.017906	±2.5	PASS
GSM850	190	NV	30	-14.75	-0.017631	±2.5	PASS
GSM850	190	NV	40	-13.85	-0.016555	±2.5	PASS
GSM850	190	NV	50	-11.62	-0.013890	±2.5	PASS
EGPRS850	190	NV	-30	-8.98	-0.010734	±2.5	PASS
EGPRS850	190	NV	-20	-9.81	-0.011726	±2.5	PASS
EGPRS850	190	NV	-10	-9.23	-0.011033	±2.5	PASS
EGPRS850	190	NV	0	-8.39	-0.010029	±2.5	PASS
EGPRS850	190	NV	10	-5.55	-0.006634	±2.5	PASS
EGPRS850	190	NV	20	-9.20	-0.010997	±2.5	PASS
EGPRS850	190	NV	30	-6.65	-0.007949	±2.5	PASS
EGPRS850	190	NV	40	-9.33	-0.011152	±2.5	PASS
EGPRS850	190	NV	50	-12.37	-0.014786	±2.5	PASS

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Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	-20.66	-0.010989	PASS
GSM1900	661	NV	-20	-15.66	-0.008330	PASS
GSM1900	661	NV	-10	-18.02	-0.009585	PASS
GSM1900	661	NV	0	-13.43	-0.007144	PASS
GSM1900	661	NV	10	-18.82	-0.010011	PASS
GSM1900	661	NV	20	-13.04	-0.006936	PASS
GSM1900	661	NV	30	-17.72	-0.009426	PASS
GSM1900	661	NV	40	-12.85	-0.006835	PASS
GSM1900	661	NV	50	-18.85	-0.010027	PASS
EGPRS1900	661	NV	-30	-8.17	-0.004346	PASS
EGPRS1900	661	NV	-20	-6.13	-0.003261	PASS
EGPRS1900	661	NV	-10	-7.65	-0.004069	PASS
EGPRS1900	661	NV	0	-5.39	-0.002867	PASS
EGPRS1900	661	NV	10	-5.75	-0.003059	PASS
EGPRS1900	661	NV	20	-7.46	-0.003968	PASS
EGPRS1900	661	NV	30	-5.65	-0.003005	PASS
EGPRS1900	661	NV	40	-5.42	-0.002883	PASS
EGPRS1900	661	NV	50	-9.52	-0.005064	PASS

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