

Report No.: SEWM2312000502RG01
Rev.: 01
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Appendix B.1

GSM850&1900



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.81	28.78	38.45	PASS
GSM850	190	32.86	28.83	38.45	PASS
GSM850	251	32.92	28.89	38.45	PASS

Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	28.41	24.38	38.45	PASS
EGPRS850	128	2	27.34	23.31	38.45	PASS
EGPRS850	128	3	25.31	21.28	38.45	PASS
EGPRS850	128	4	24.26	20.23	38.45	PASS
EGPRS850	190	1	28.14	24.11	38.45	PASS
EGPRS850	190	2	27.16	23.13	38.45	PASS
EGPRS850	190	3	25.21	21.18	38.45	PASS
EGPRS850	190	4	24.10	20.07	38.45	PASS
EGPRS850	251	1	27.99	23.96	38.45	PASS
EGPRS850	251	2	27.02	22.99	38.45	PASS
EGPRS850	251	3	25.03	21.00	38.45	PASS
EGPRS850	251	4	23.90	19.87	38.45	PASS



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Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	30.14	29.04	33.00	PASS
GSM1900	661	30.19	29.09	33.00	PASS
GSM1900	810	29.90	28.80	33.00	PASS

Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	26.48	25.38	33.00	PASS
EGPRS1900	512	2	25.64	24.54	33.00	PASS
EGPRS1900	512	3	23.96	22.86	33.00	PASS
EGPRS1900	512	4	22.97	21.87	33.00	PASS
EGPRS1900	661	1	26.14	25.04	33.00	PASS
EGPRS1900	661	2	25.46	24.36	33.00	PASS
EGPRS1900	661	3	23.84	22.74	33.00	PASS
EGPRS1900	661	4	22.83	21.73	33.00	PASS
EGPRS1900	810	1	26.05	24.95	33.00	PASS
EGPRS1900	810	2	25.33	24.23	33.00	PASS
EGPRS1900	810	3	23.72	22.62	33.00	PASS
EGPRS1900	810	4	22.62	21.52	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	7.36	13	PASS
GSM850	190	7.36	13	PASS
GSM850	251	7.16	13	PASS
EGPRS850	128	11.96	13	PASS
EGPRS850	190	12.14	13	PASS
EGPRS850	251	12.04	13	PASS
GSM1900	512	9.58	13	PASS
GSM1900	661	9.6	13	PASS
GSM1900	810	9.6	13	PASS
EGPRS1900	512	11.74	13	PASS
EGPRS1900	661	11.66	13	PASS
EGPRS1900	810	11.66	13	PASS



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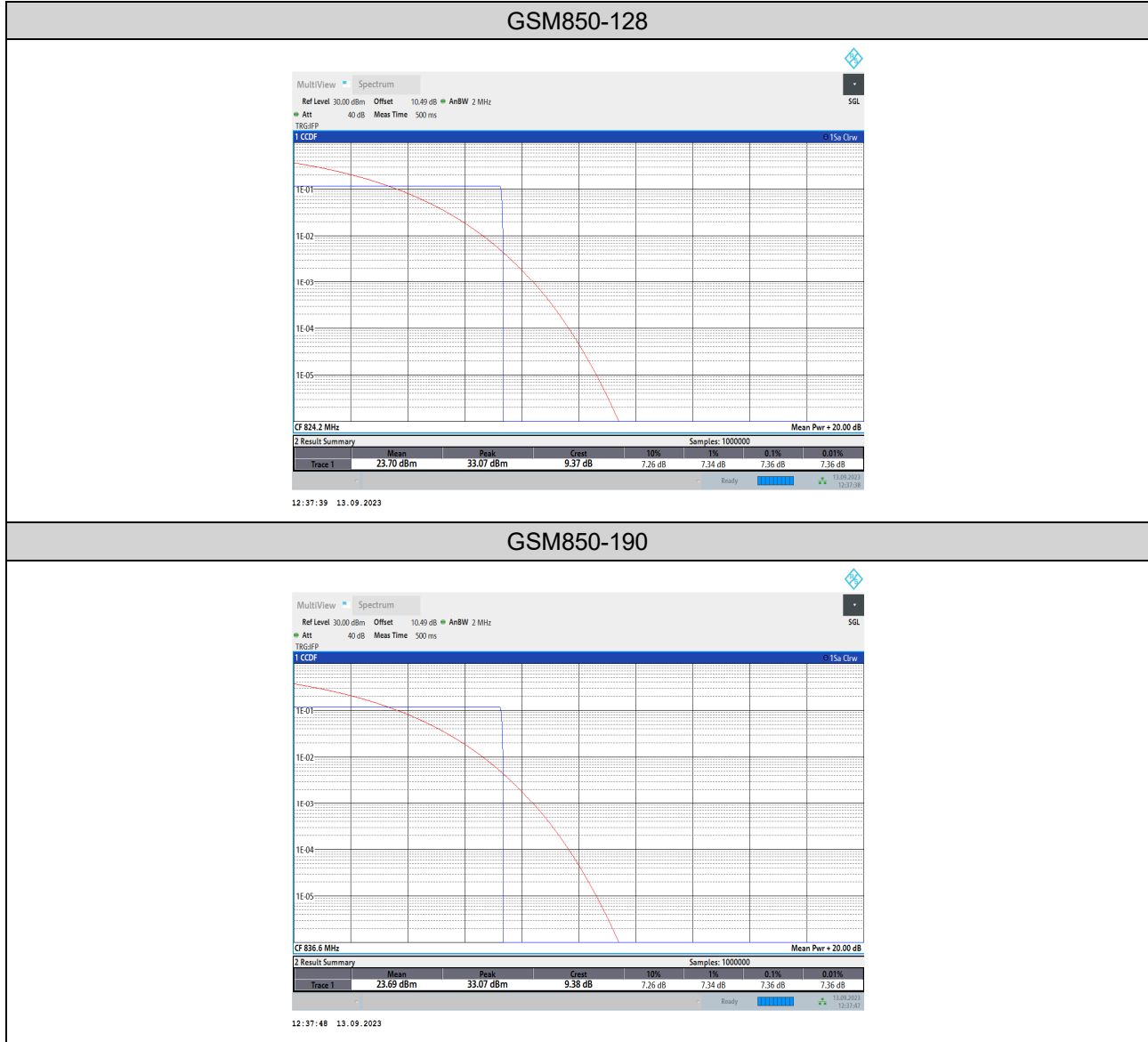
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Test Graphs

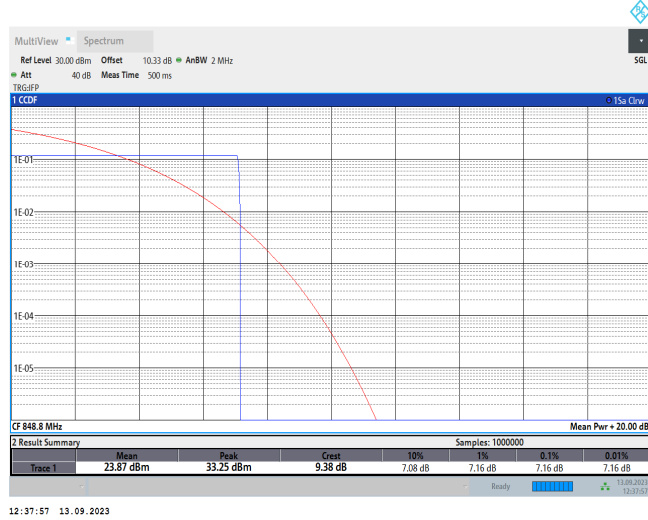


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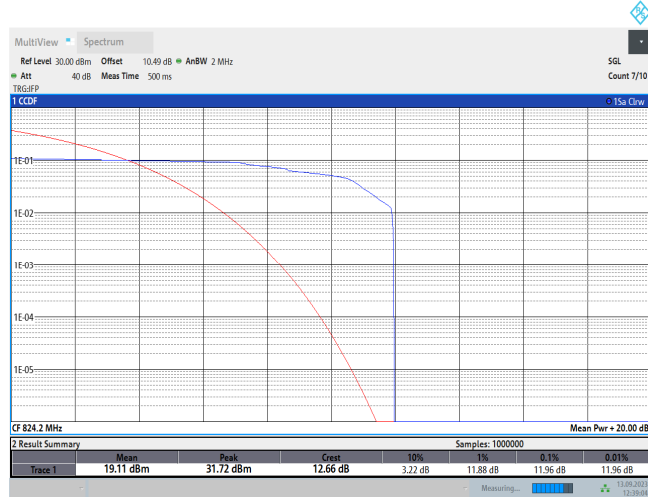
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GSM850-251



12:37:57 13. 09. 2023

EGPRS850-128



12:39:04 13. 09. 2023

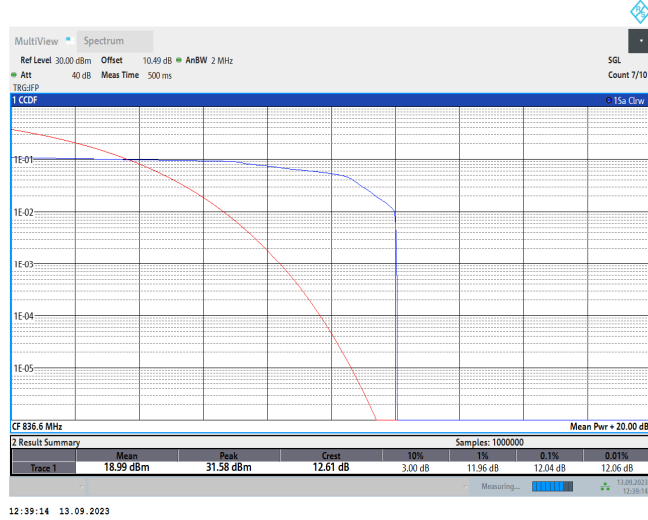


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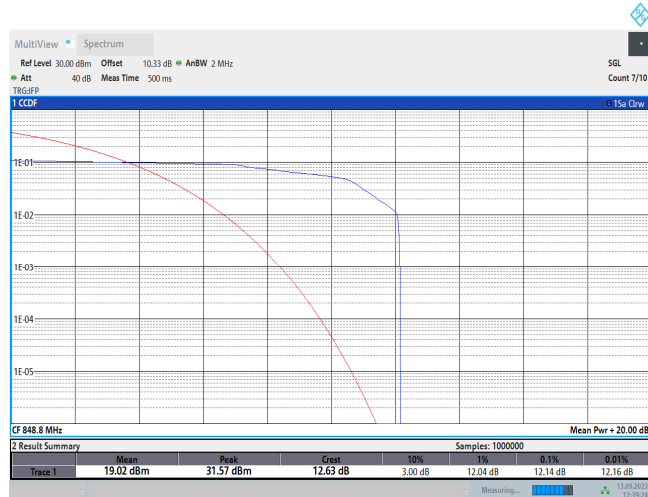
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EGPRS850-190



12:39:14 13.09.2023

EGPRS850-251



12:39:25 13.09.2023

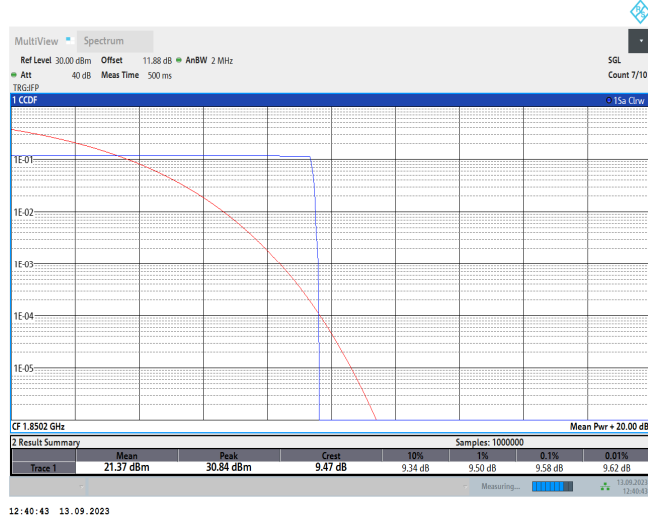


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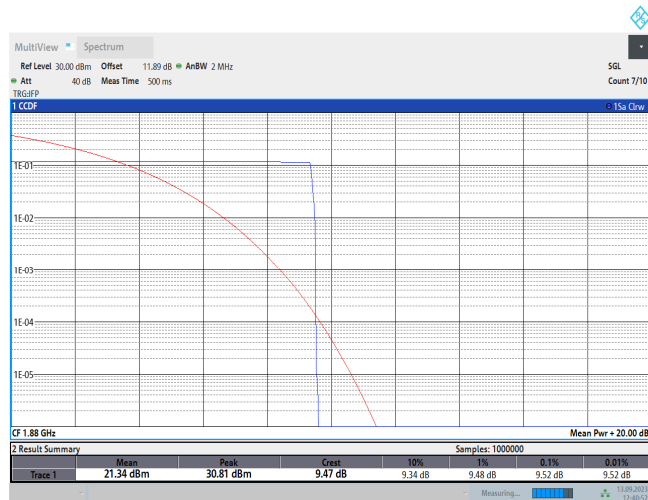
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GSM1900-512



12:40:43 13. 09. 2023

GSM1900-661



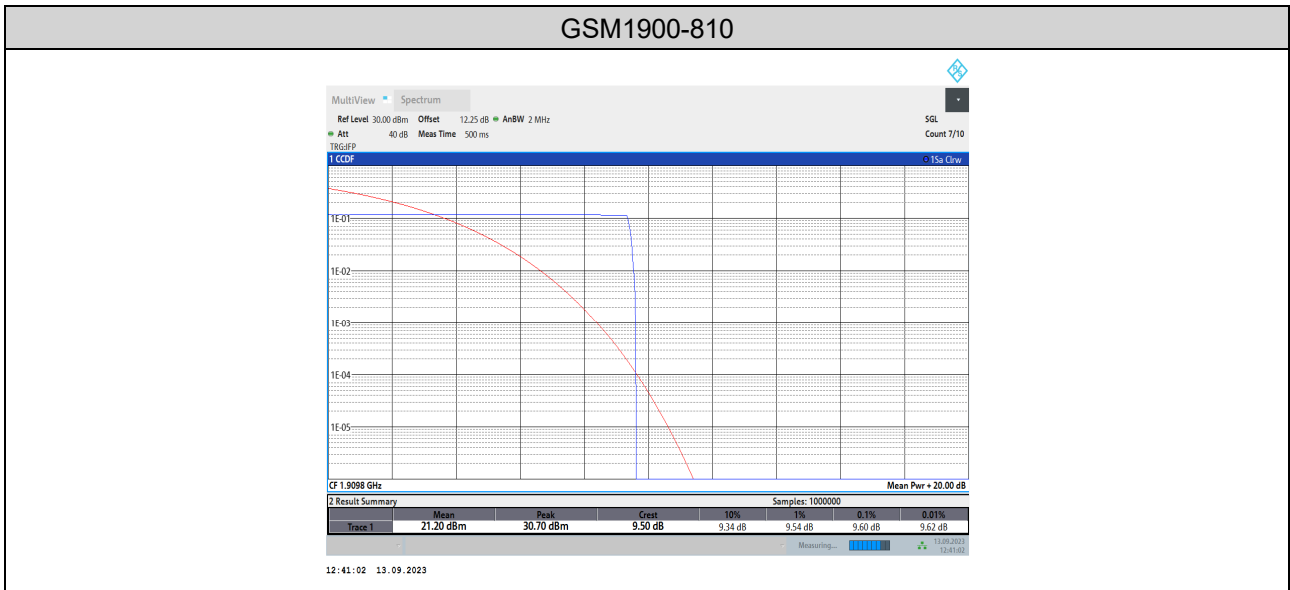
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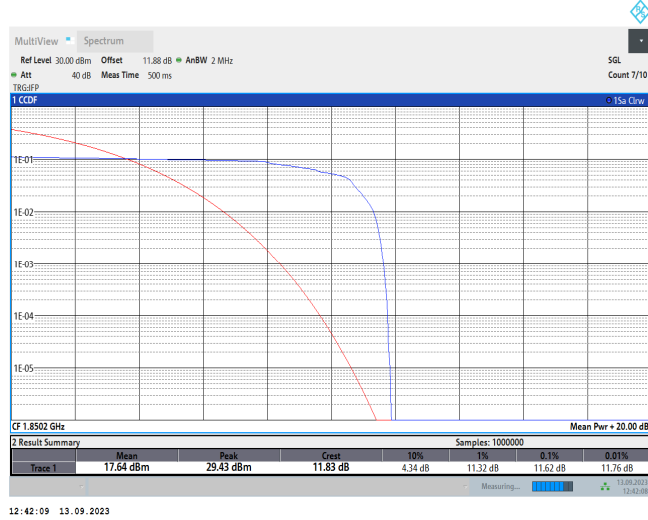


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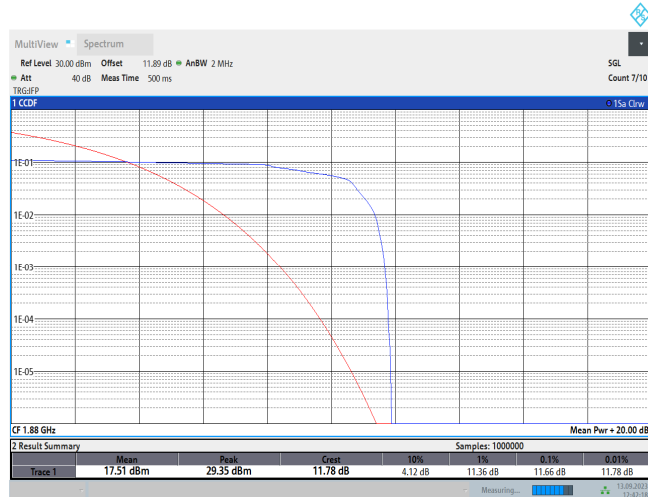
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EGPRS1900-512



12:42:09 13. 09. 2023

EGPRS1900-661



12:42:19 13. 09. 2023

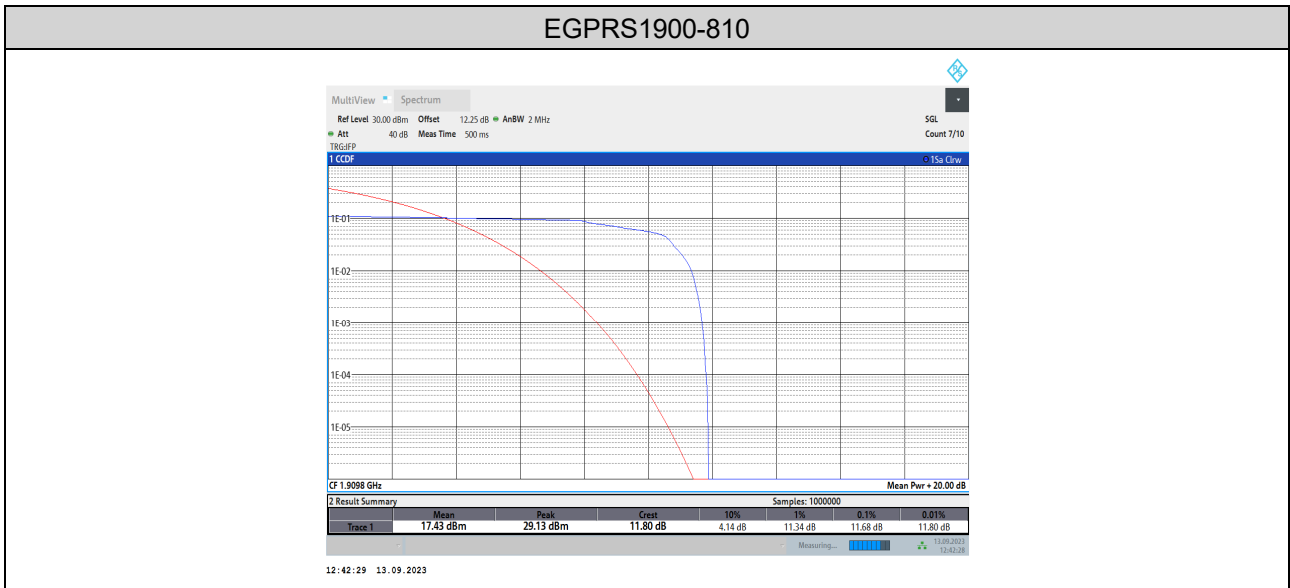


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.244	0.32	---	PASS
GSM850	190	0.246	0.32	---	PASS
GSM850	251	0.248	0.32	---	PASS
EGPRS850	128	0.252	0.33	---	PASS
EGPRS850	190	0.251	0.32	---	PASS
EGPRS850	251	0.252	0.33	---	PASS
GSM1900	512	0.244	0.32	---	PASS
GSM1900	661	0.245	0.31	---	PASS
GSM1900	810	0.244	0.31	---	PASS
EGPRS1900	512	0.267	0.35	---	PASS
EGPRS1900	661	0.266	0.36	---	PASS
EGPRS1900	810	0.266	0.36	---	PASS

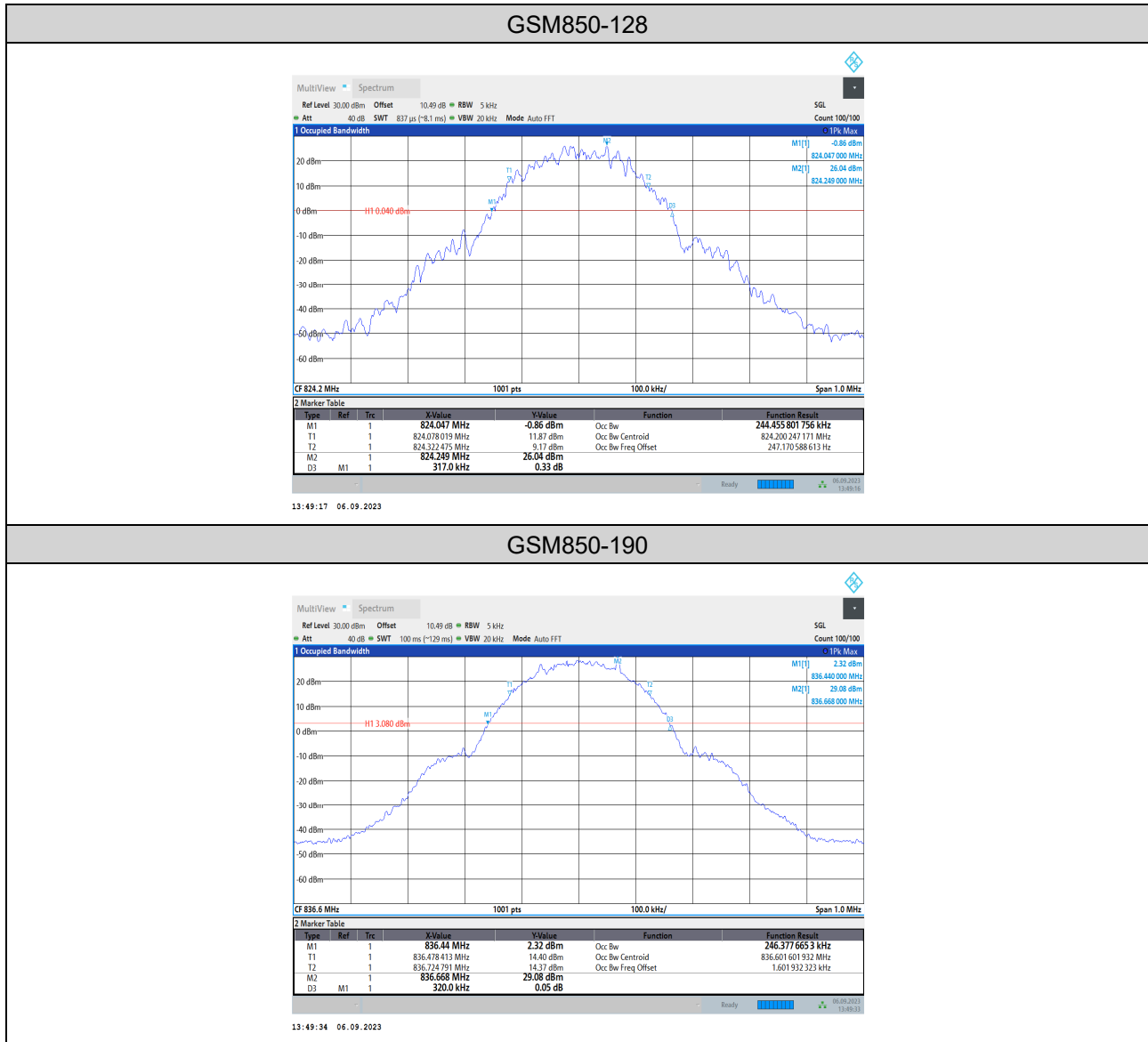


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Test Graphs

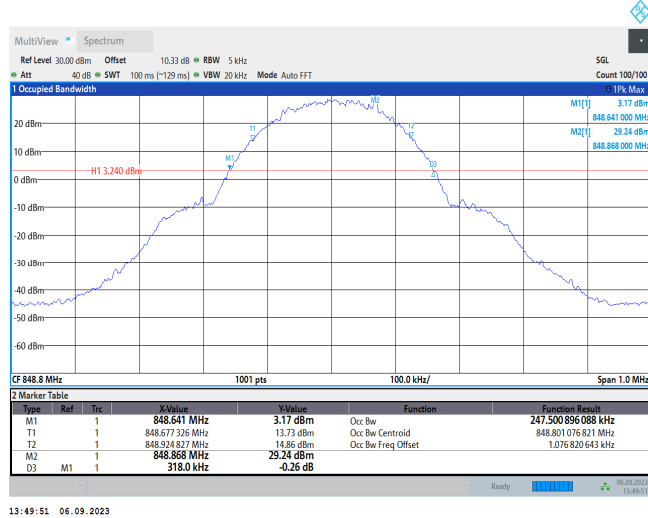


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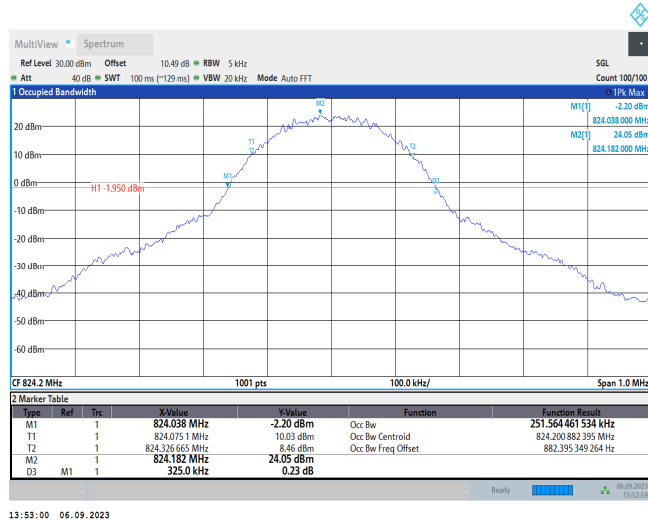
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GSM850-251



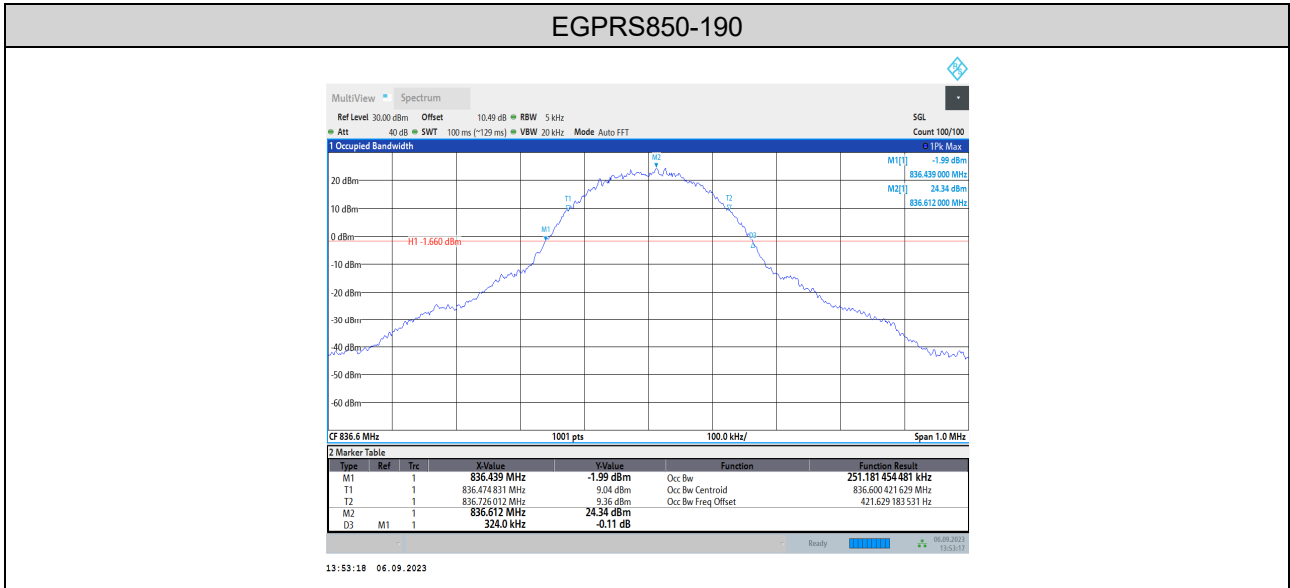
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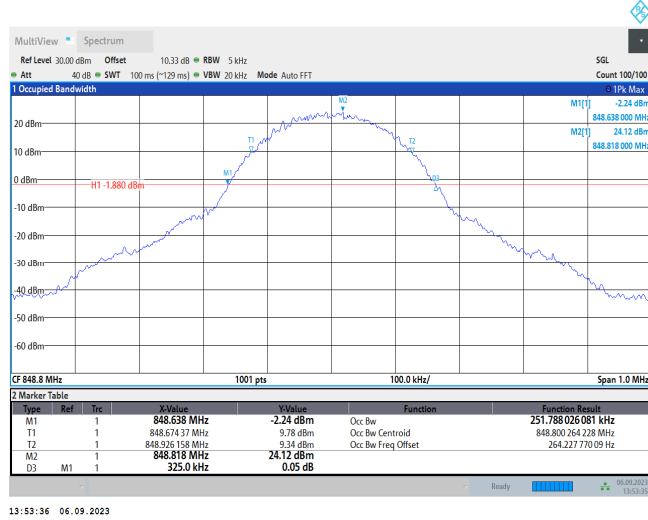


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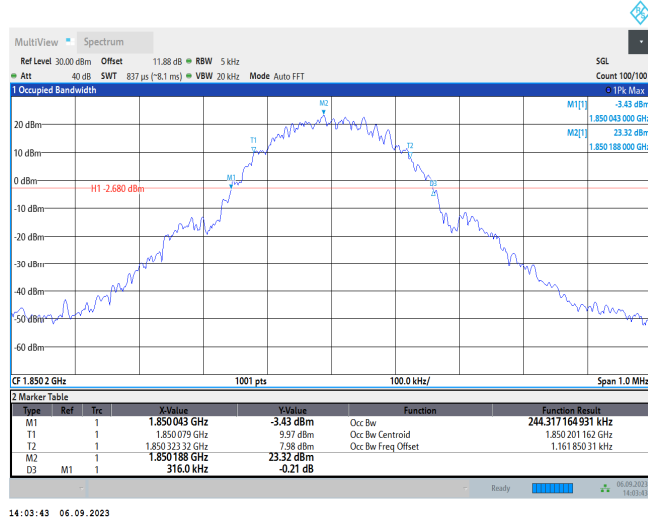
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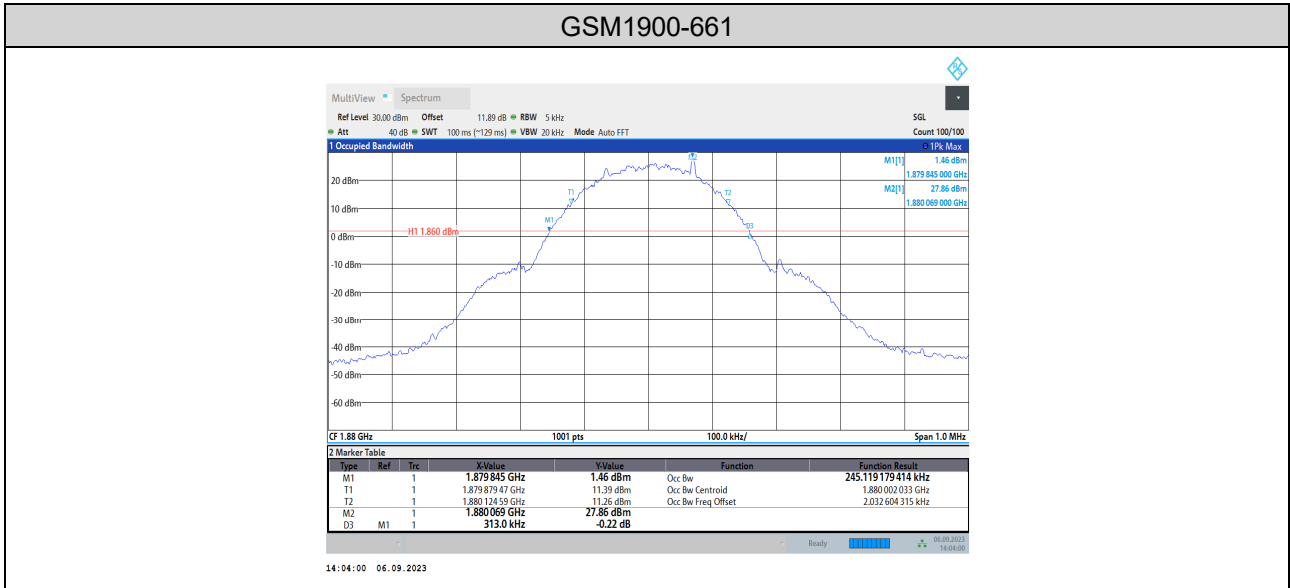
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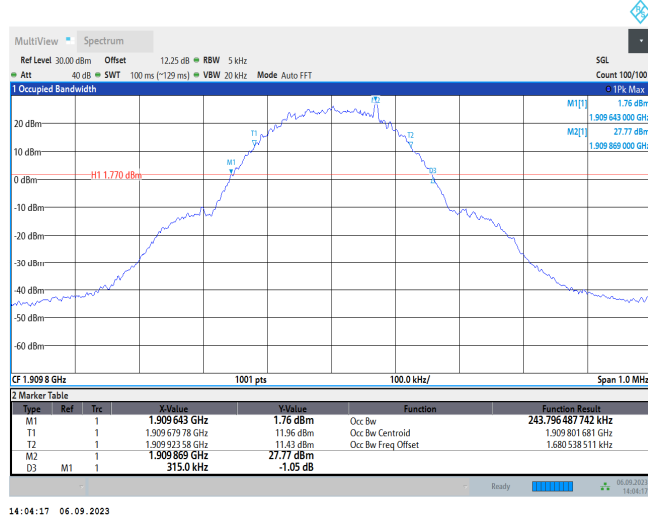


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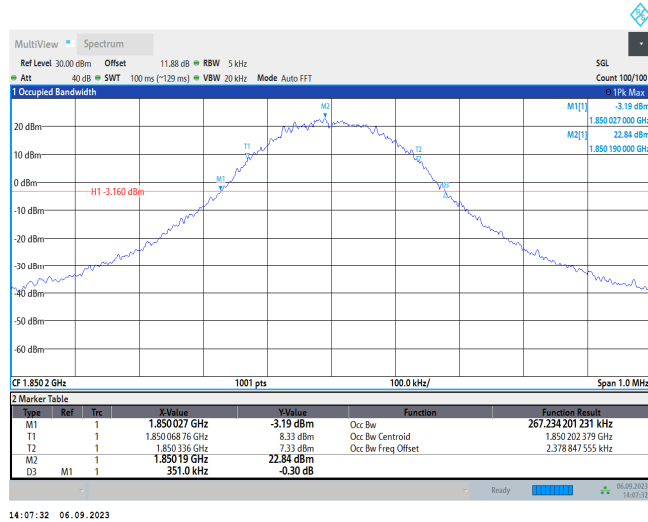
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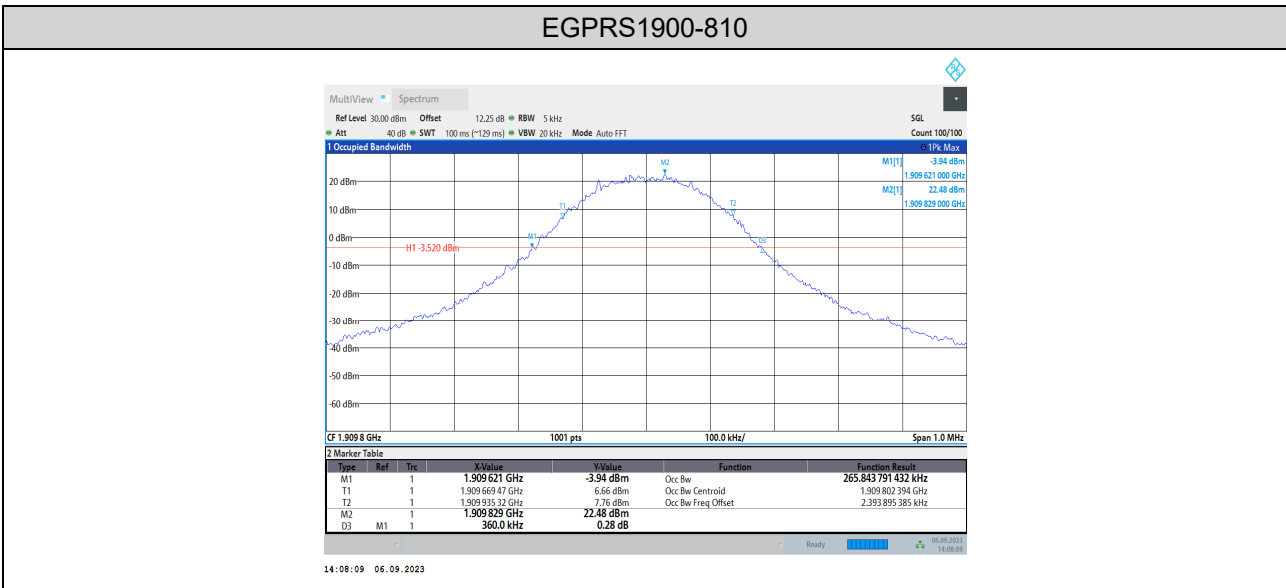
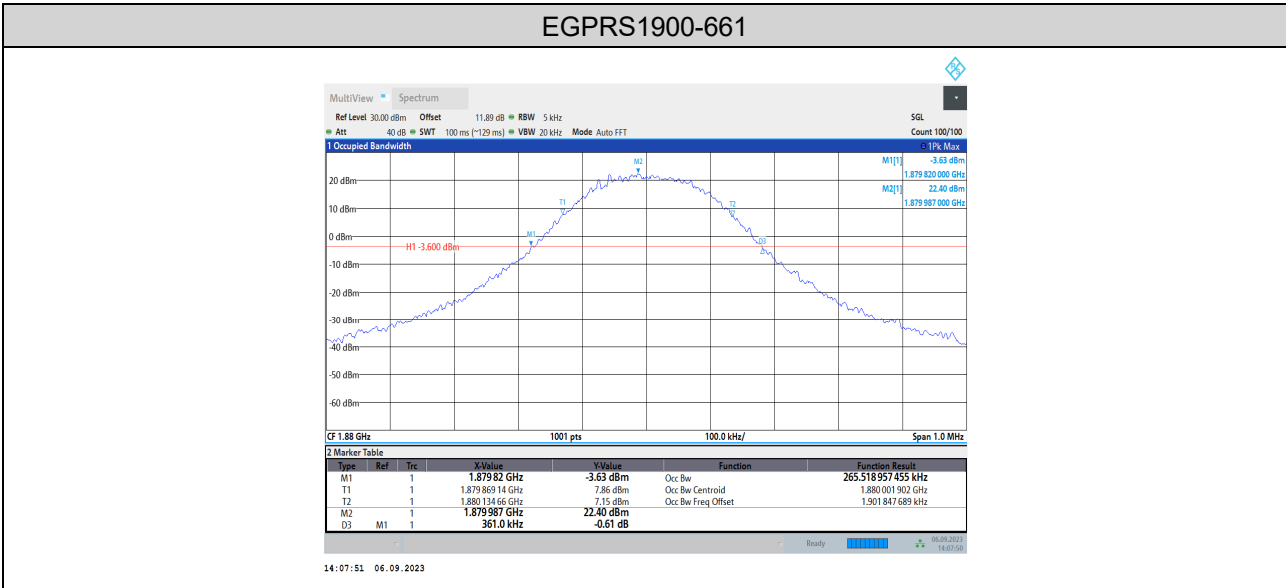
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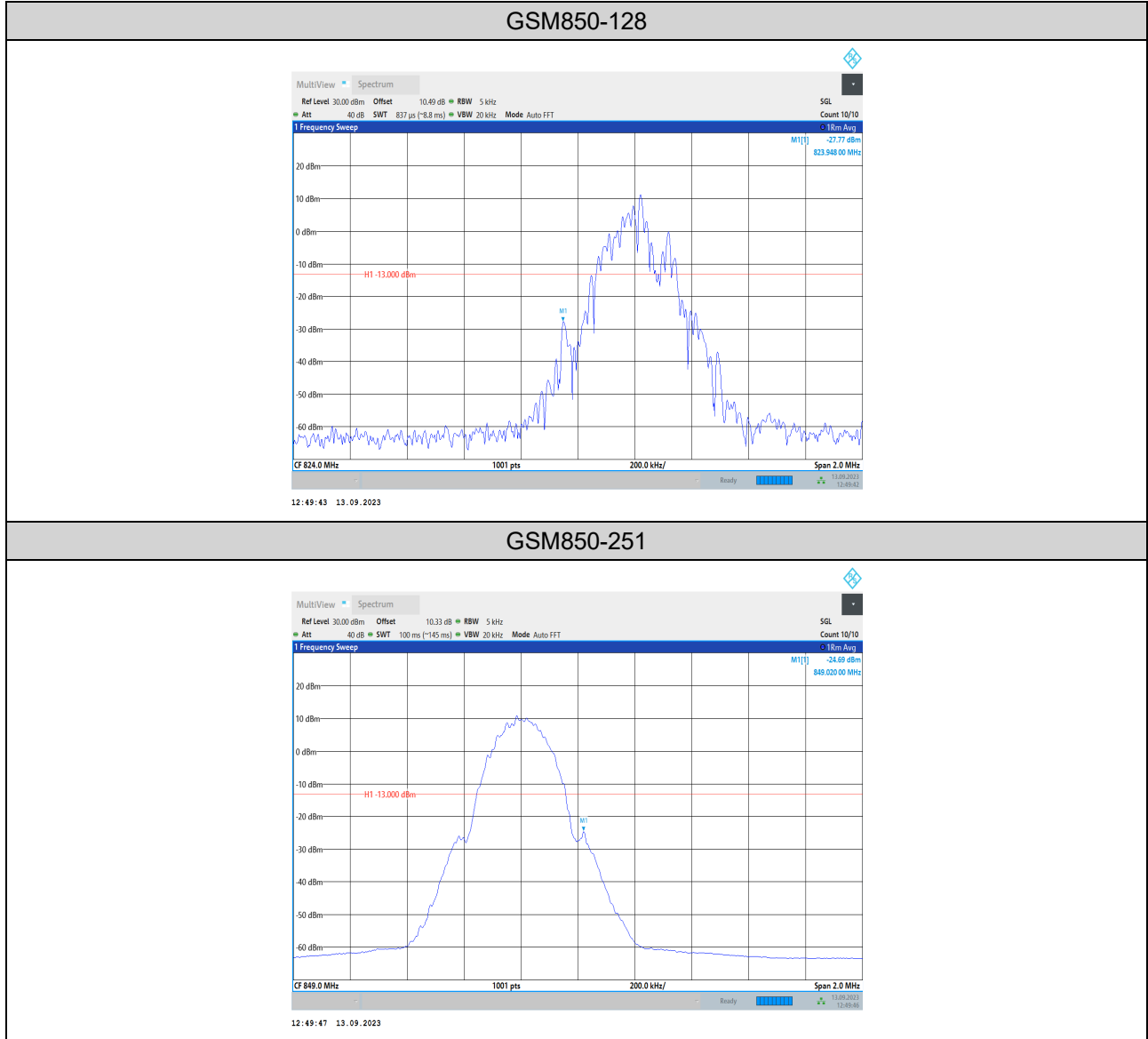
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Band Edge

Test Graphs

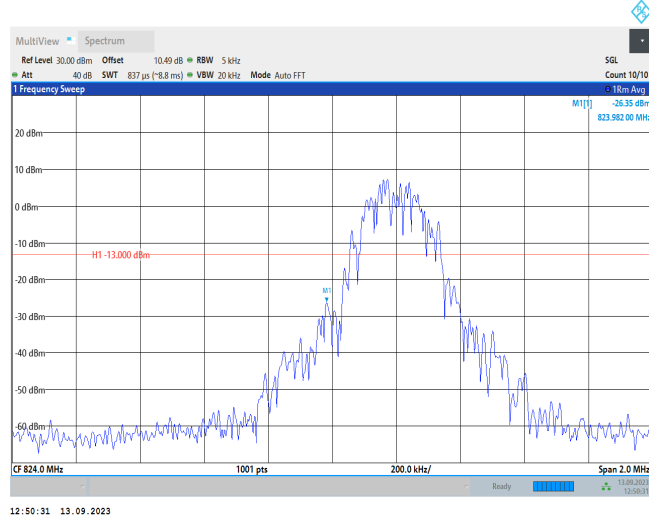


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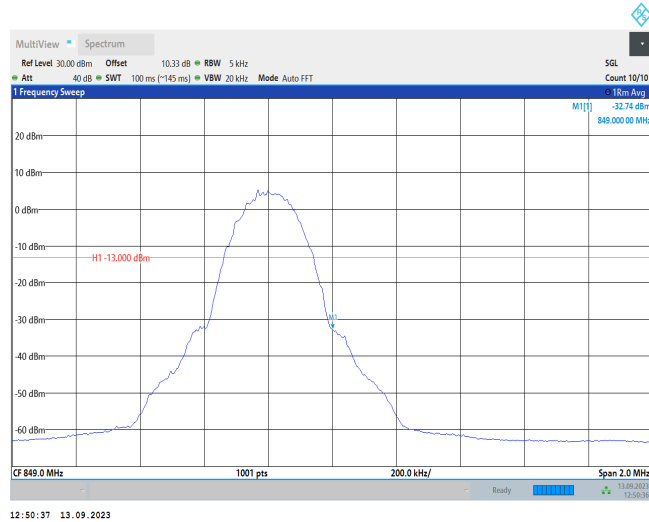
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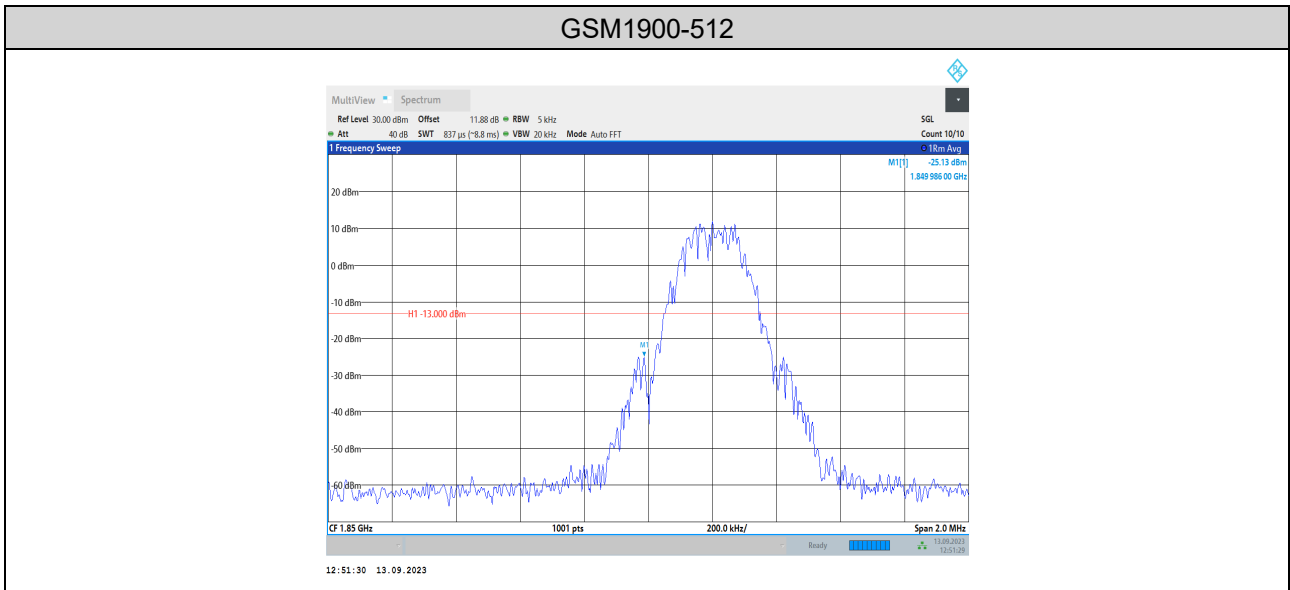
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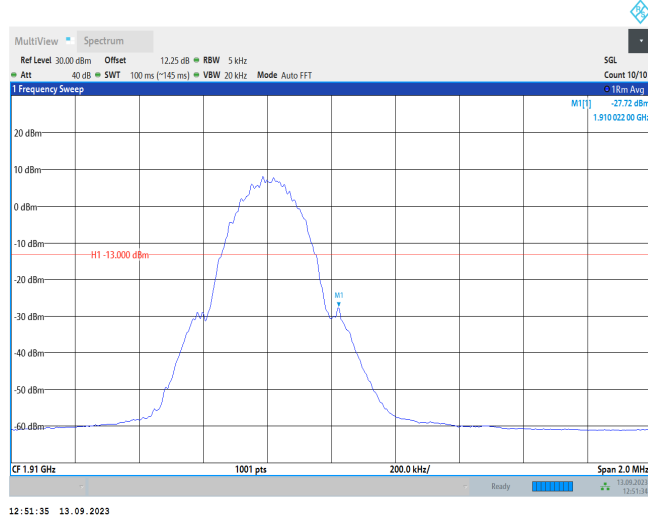


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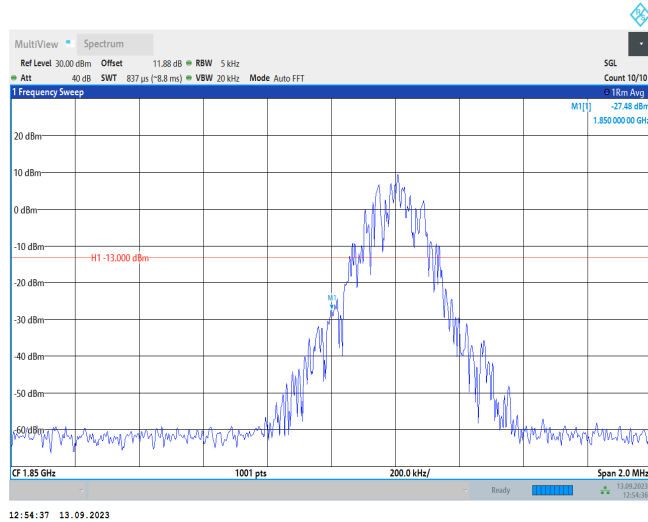
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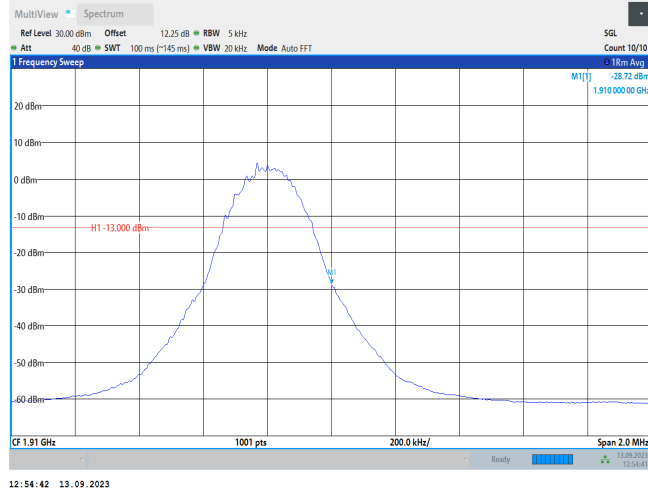


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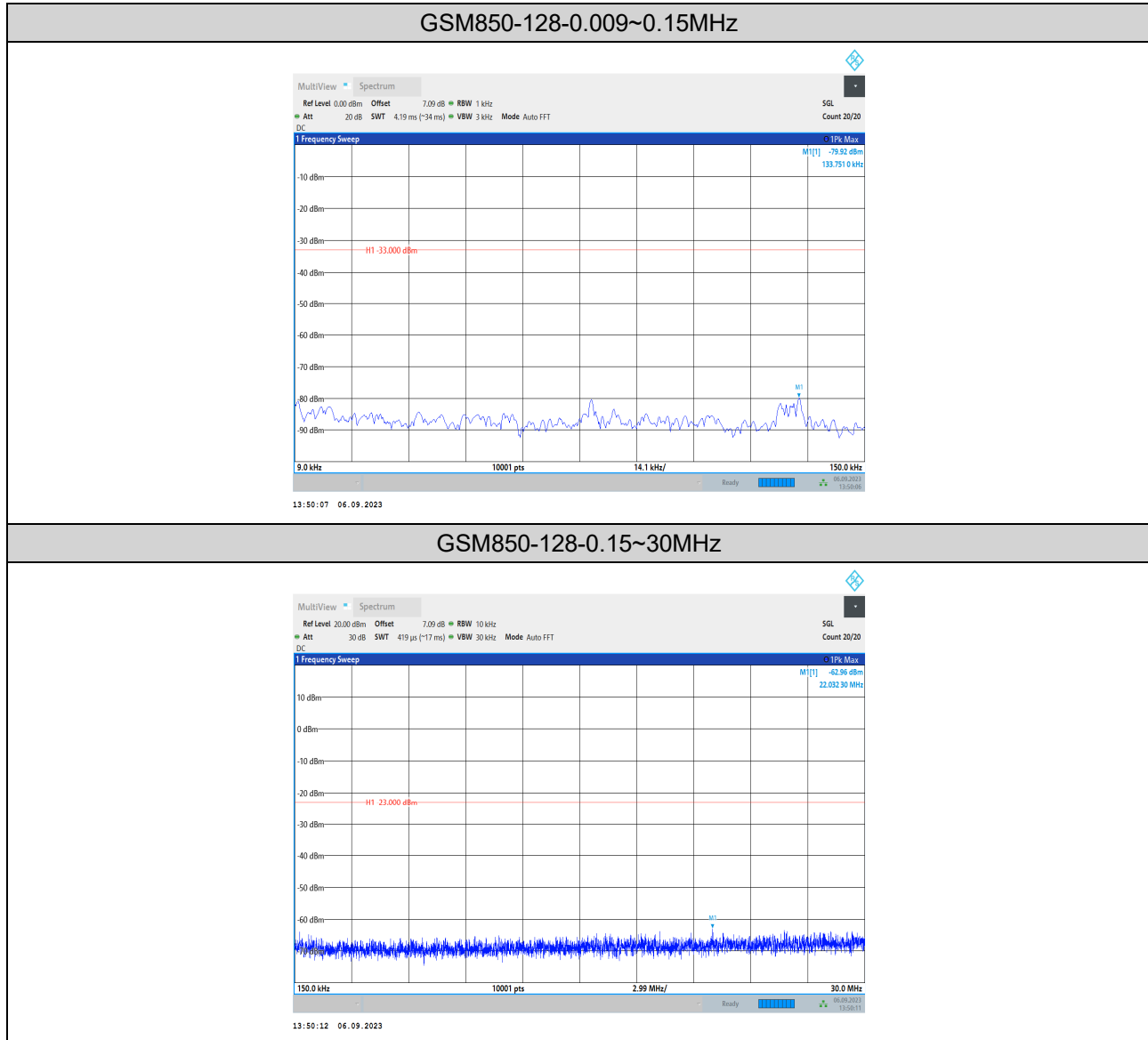
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Conducted Spurious Emission

Test Graphs



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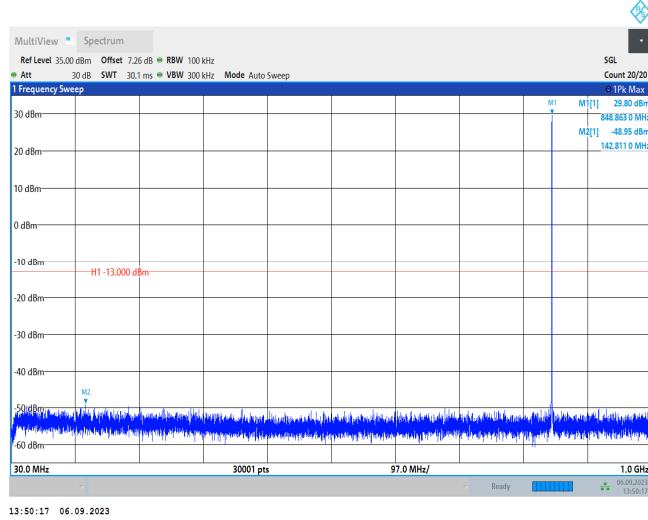
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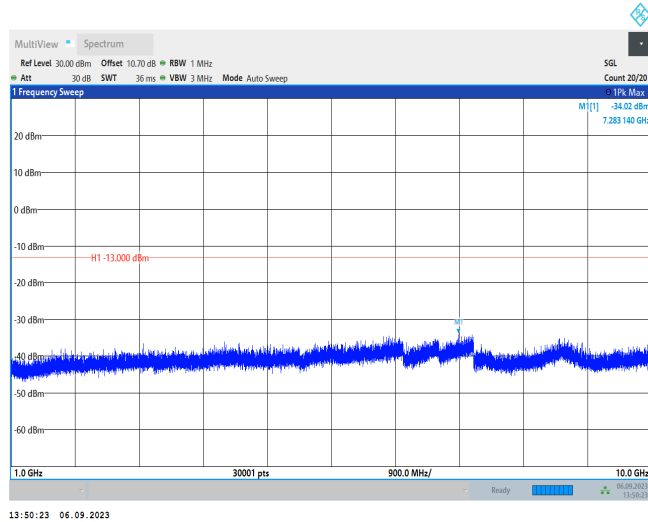
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GSM850-128-1000~10000MHz

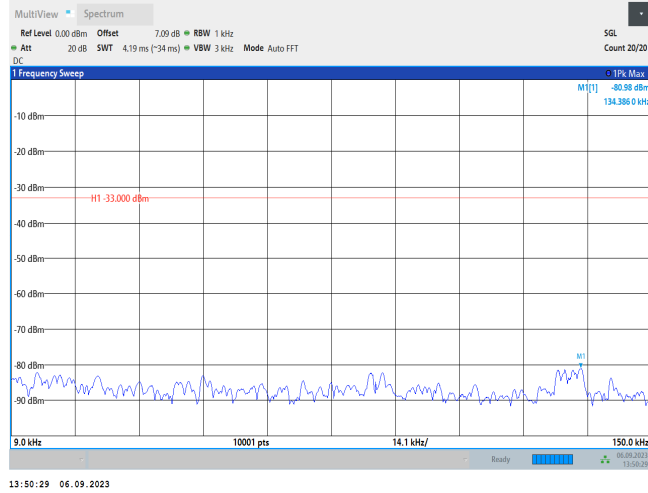


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GSM850-190-0.009~0.15MHz

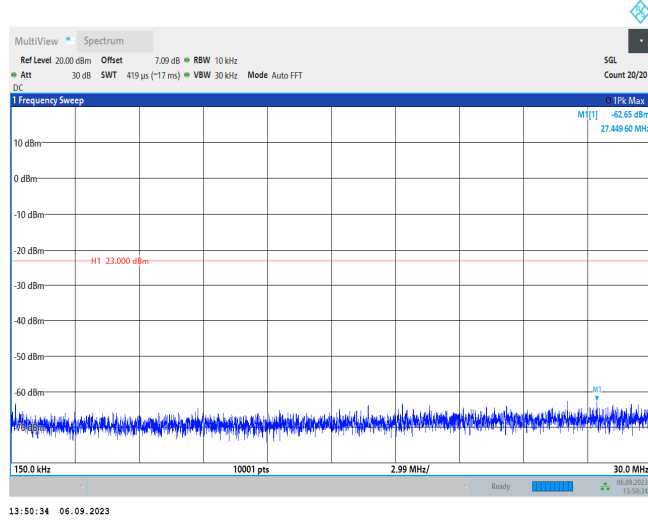


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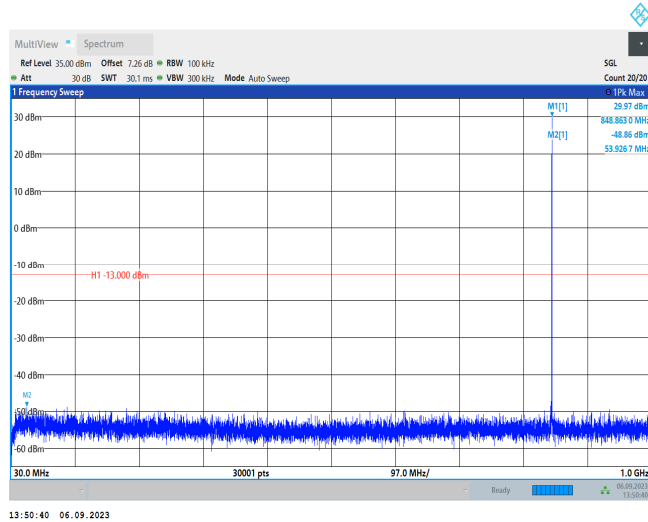
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GSM850-190-0.15~30MHz



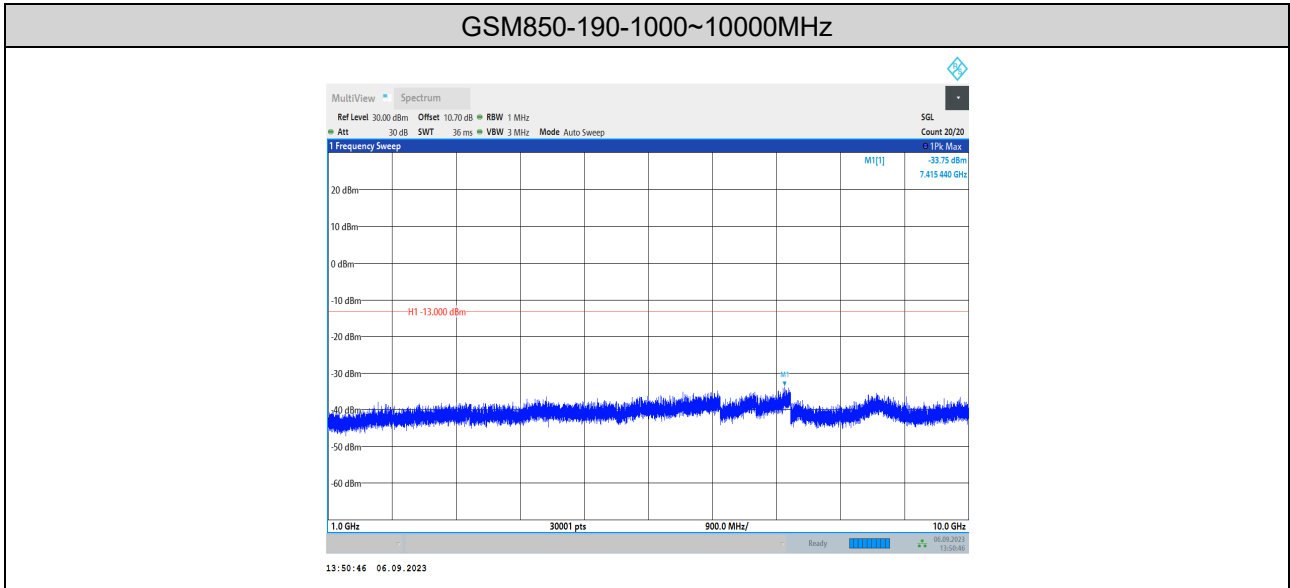
GSM850-190-30~1000MHz



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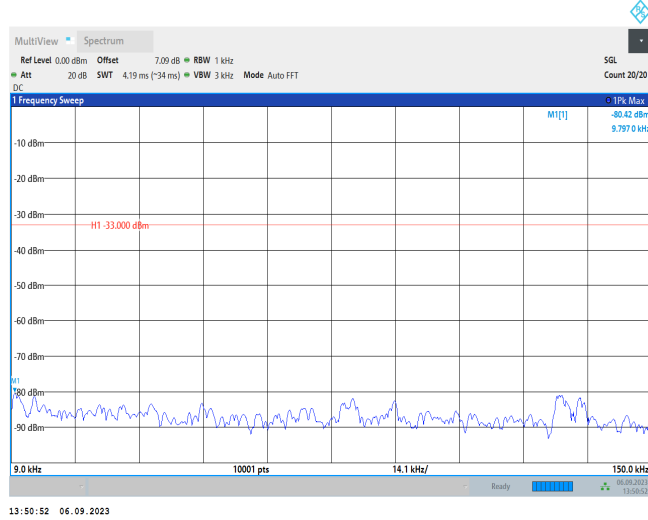


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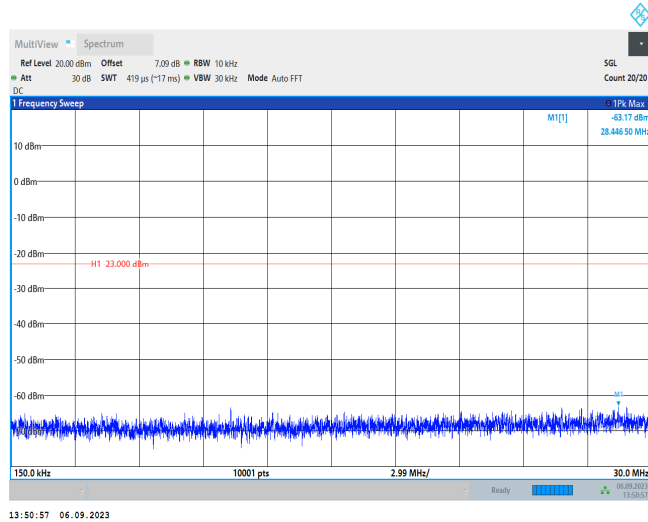
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GSM850-251-0.009~0.15MHz



GSM850-251-0.15~30MHz

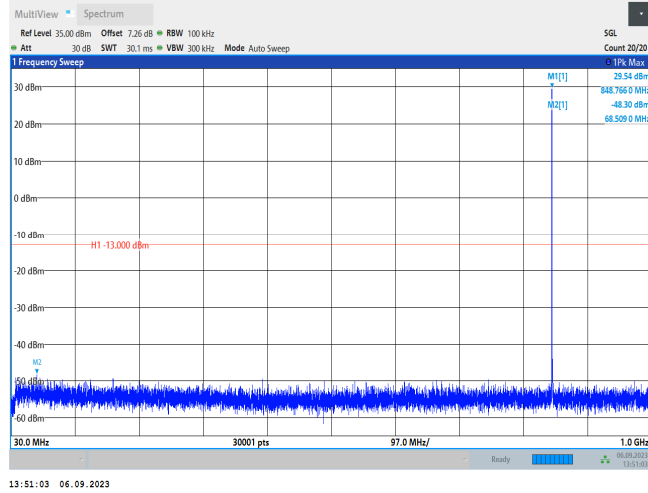


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GSM850-251-30~1000MHz

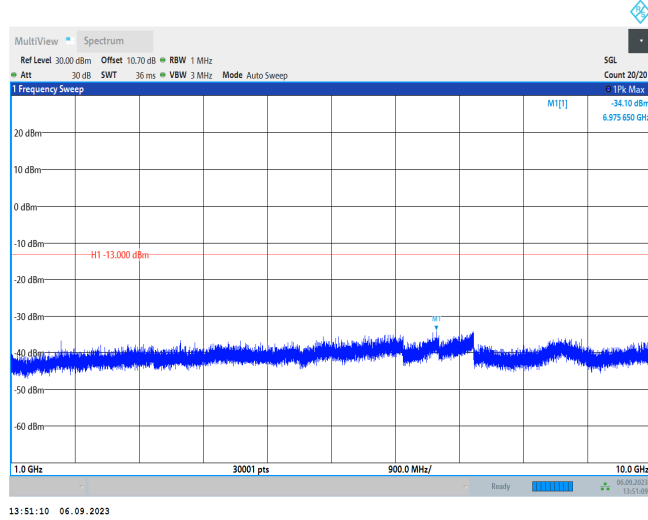


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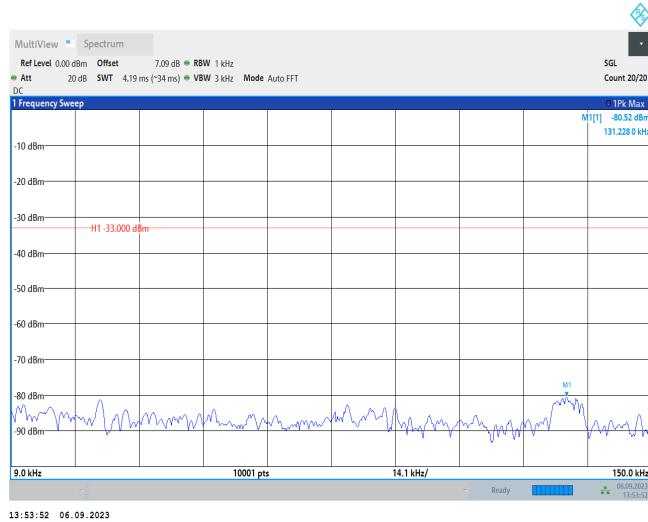
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GSM850-251-1000~10000MHz



EGPRS850-128-0.009~0.15MHz

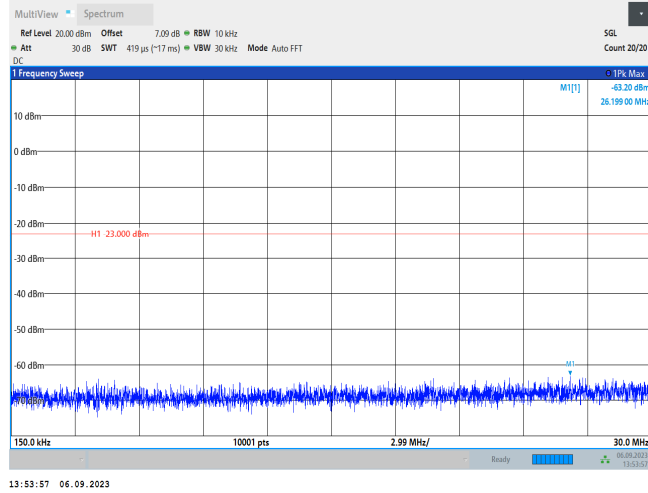


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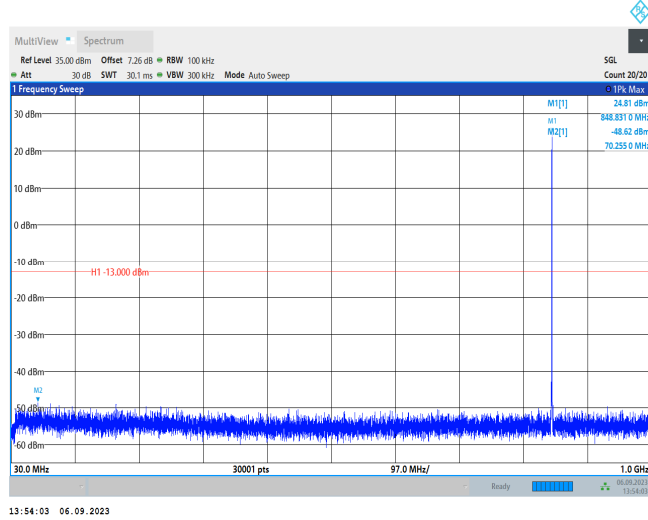


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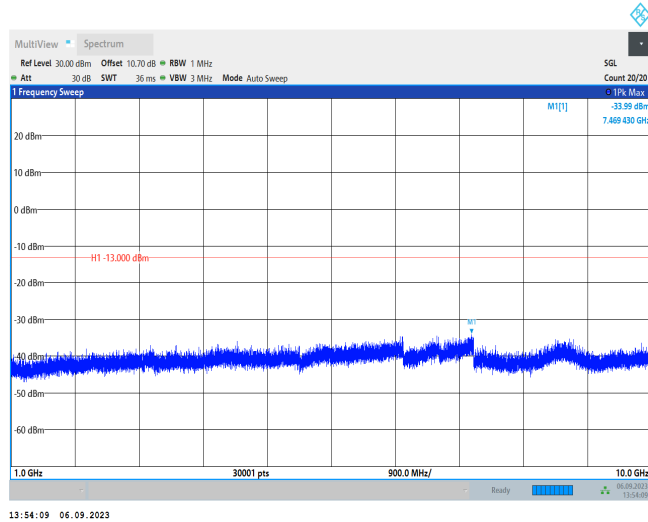
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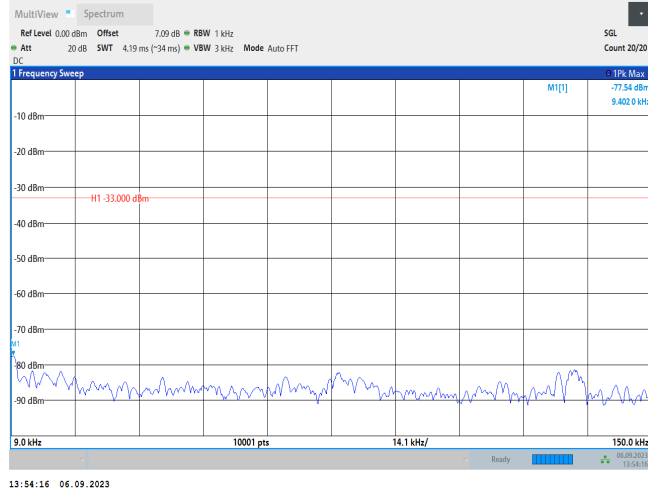


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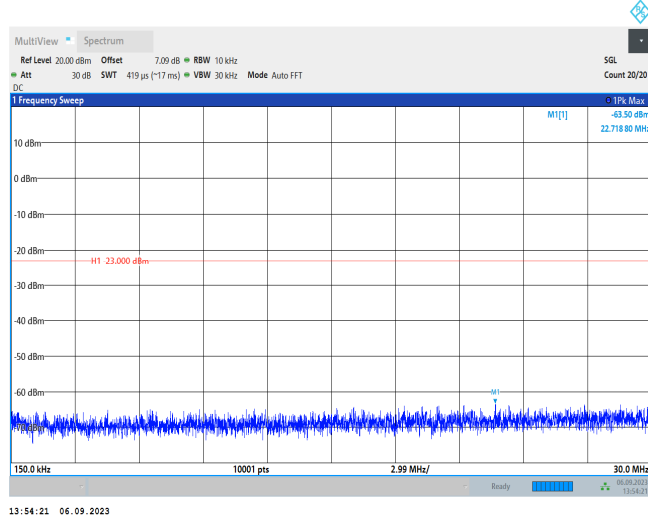


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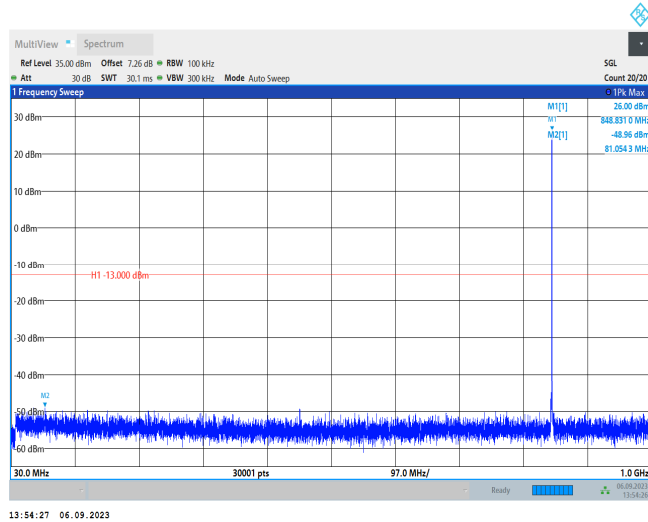
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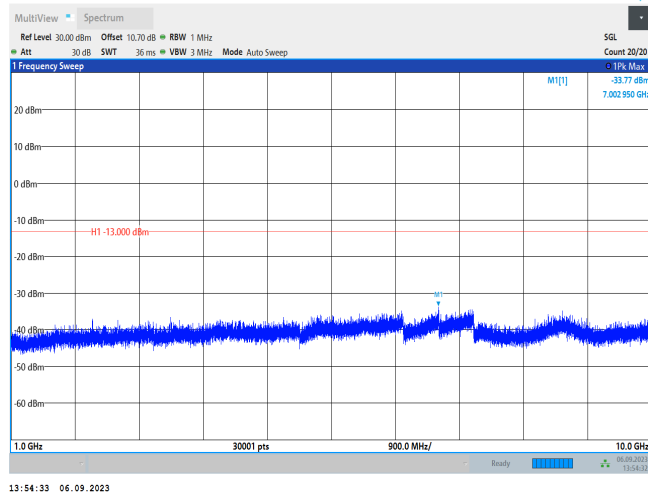


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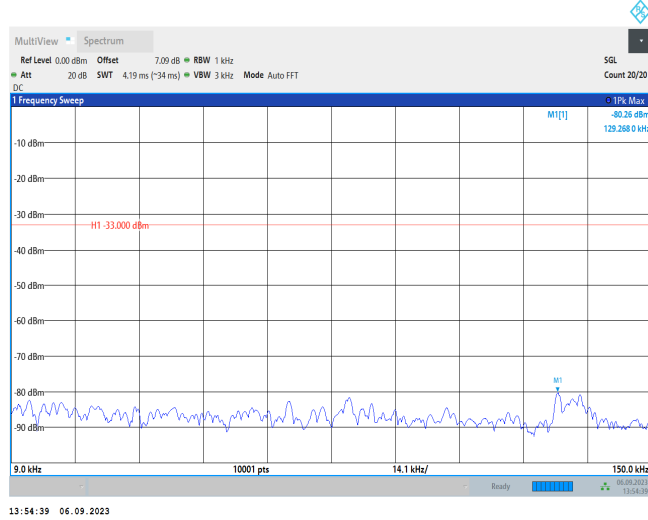


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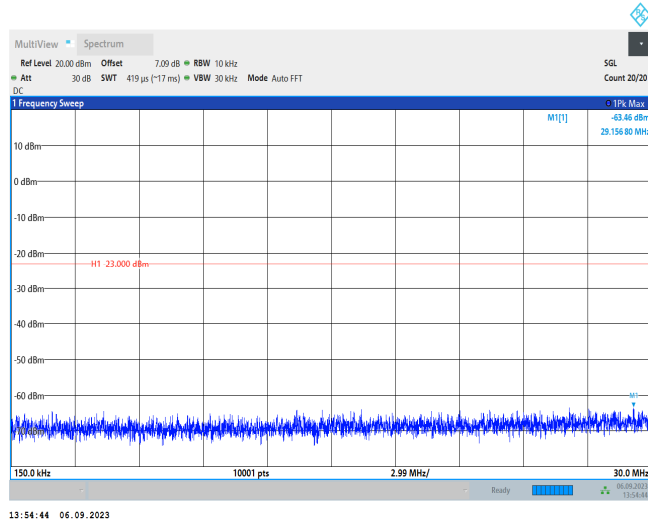
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EGPRS850-251-0.009~0.15MHz



EGPRS850-251-0.15~30MHz

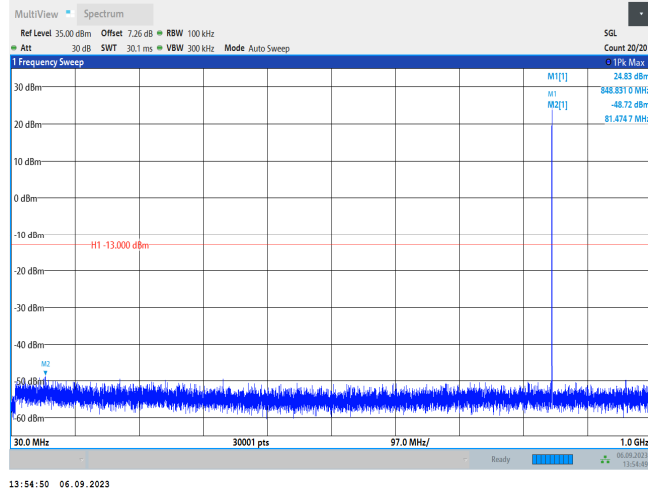


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EGPRS850-251-30~1000MHz

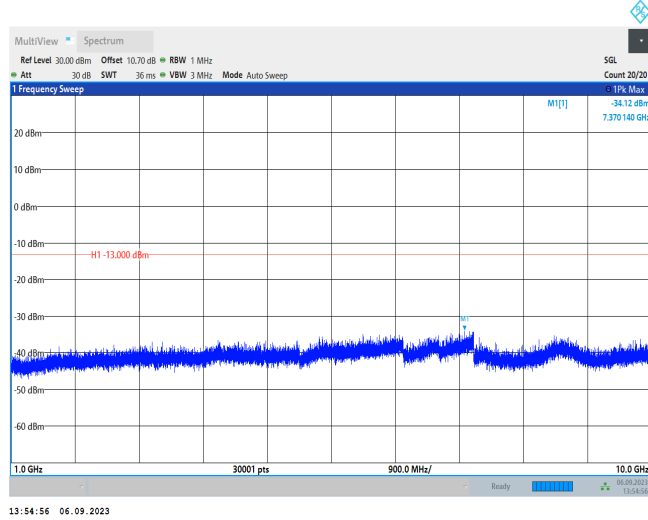


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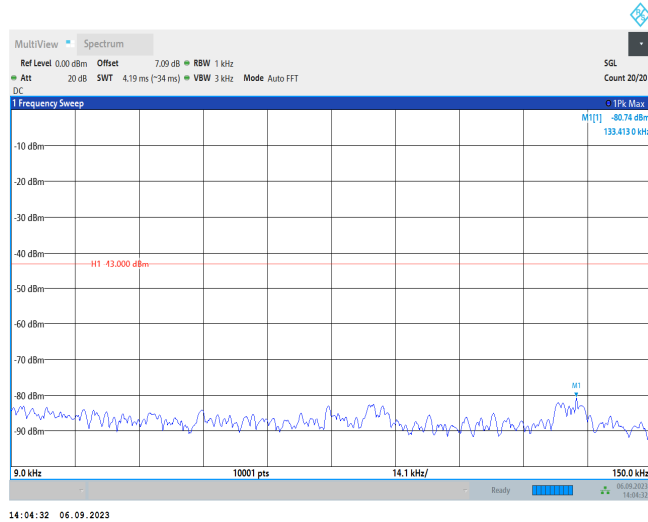
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EGPRS850-251-1000~10000MHz



GSM1900-512-0.009~0.15MHz

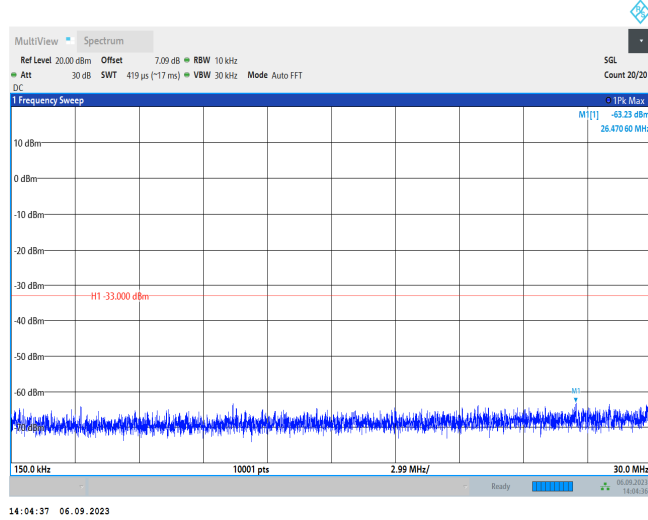


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GSM1900-512-0.15~30MHz

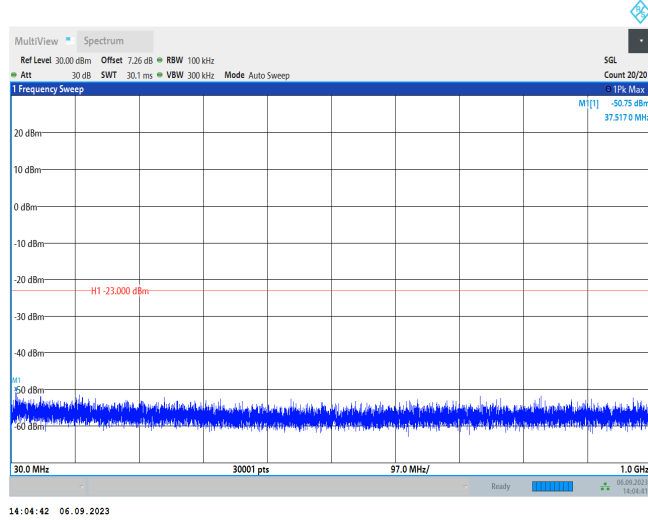


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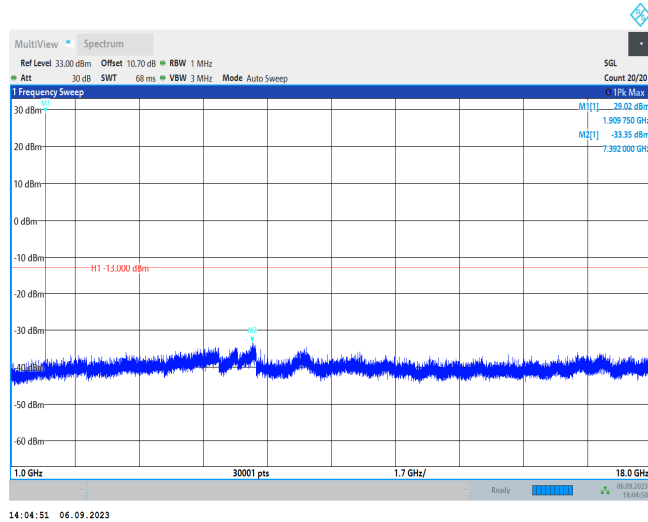
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GSM1900-512-30~1000MHz



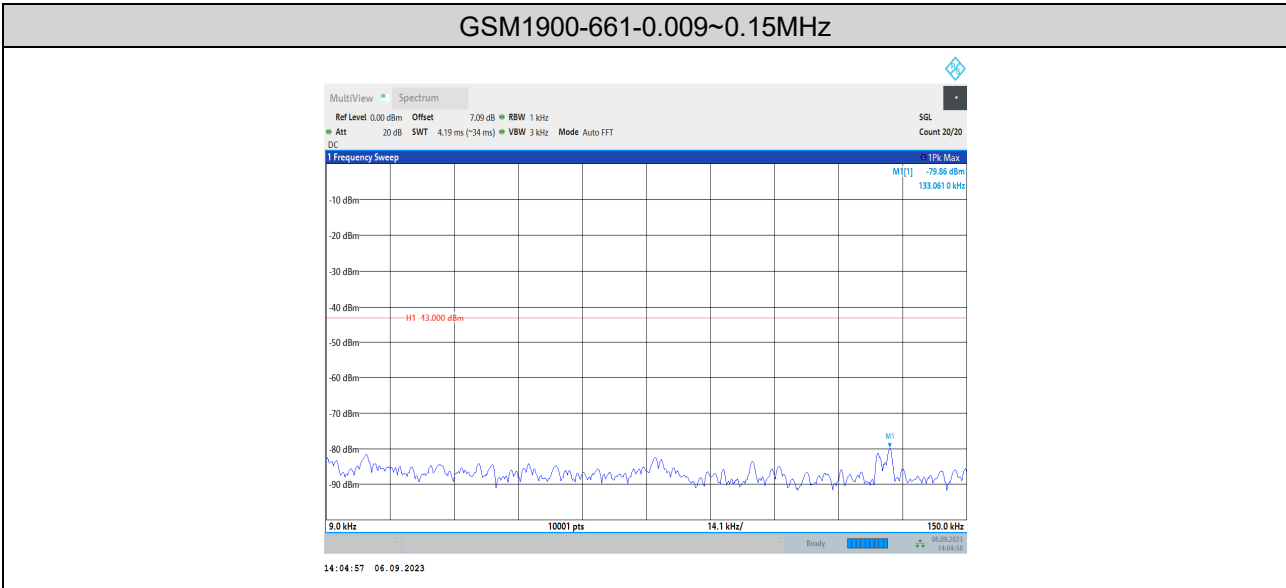
GSM1900-512-1000~18000MHz



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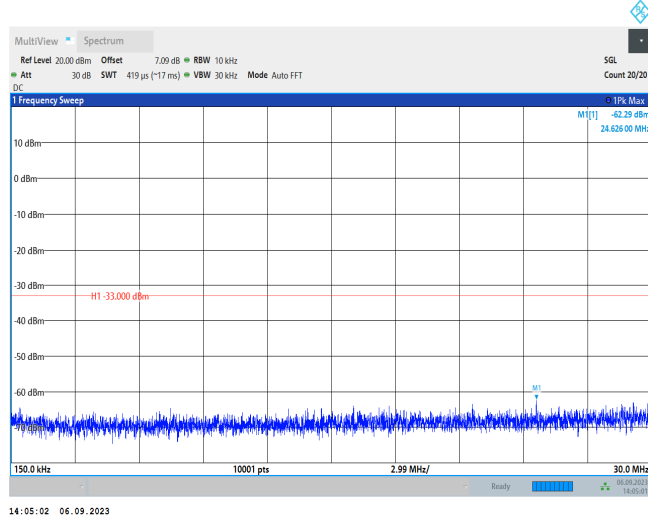


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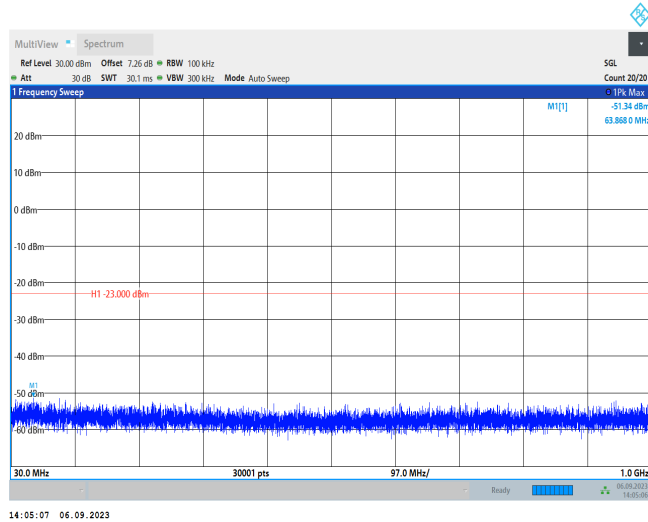
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GSM1900-661-0.15~30MHz



GSM1900-661-30~1000MHz

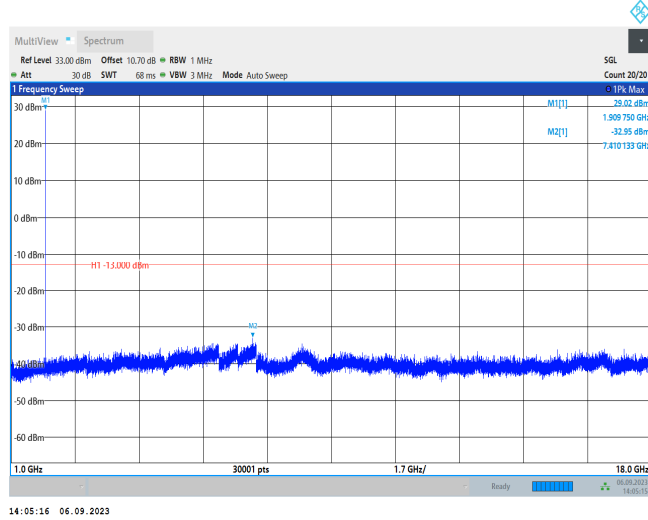


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GSM1900-661-1000~18000MHz

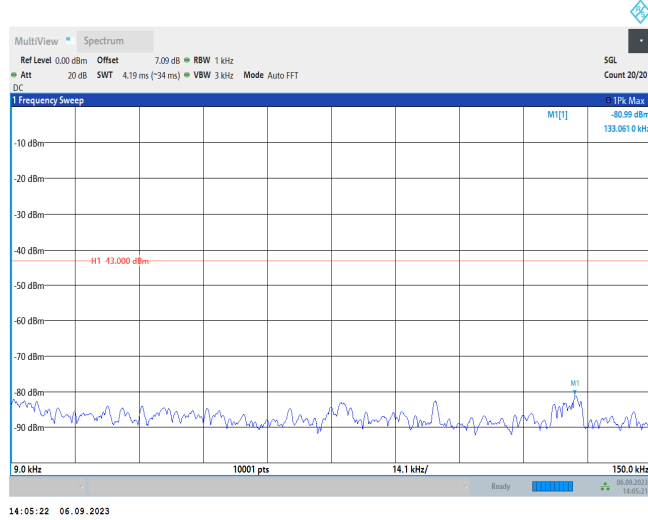


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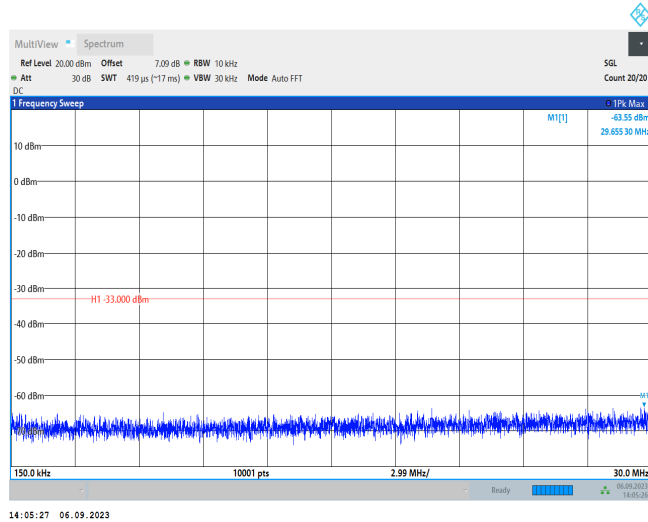
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GSM1900-810-0.009~0.15MHz



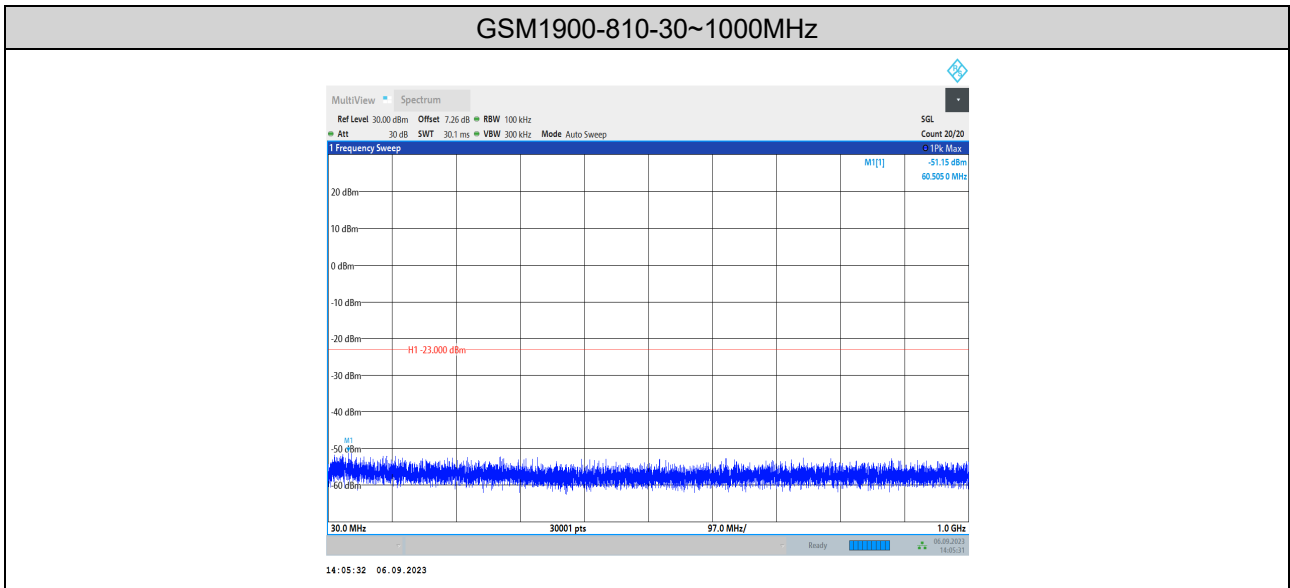
GSM1900-810-0.15~30MHz



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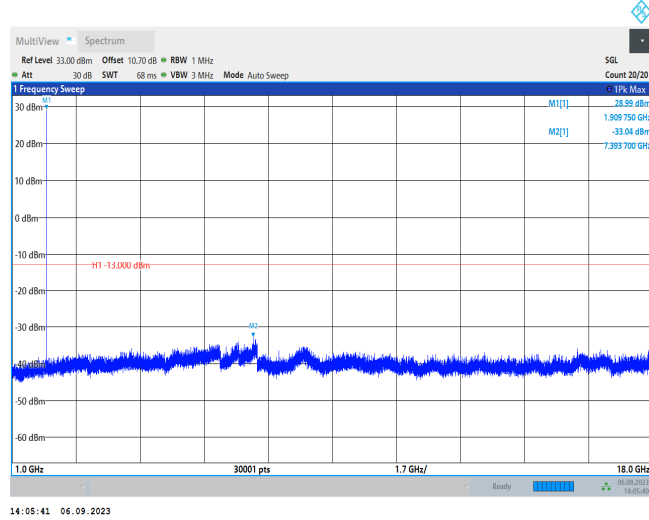


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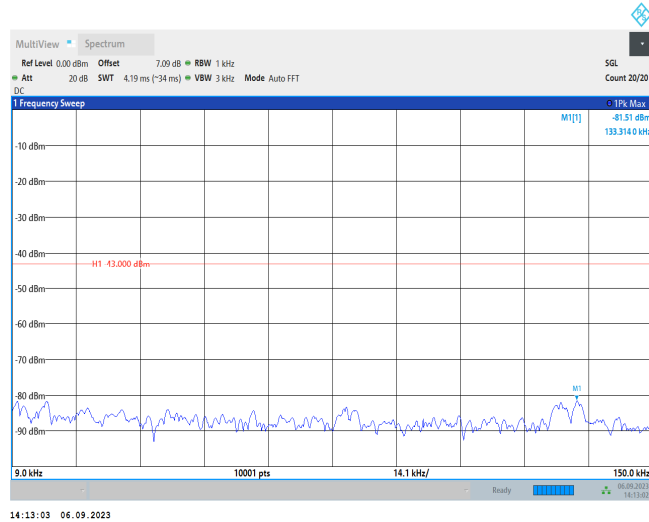
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EGPRS1900-512-0.009~0.15MHz

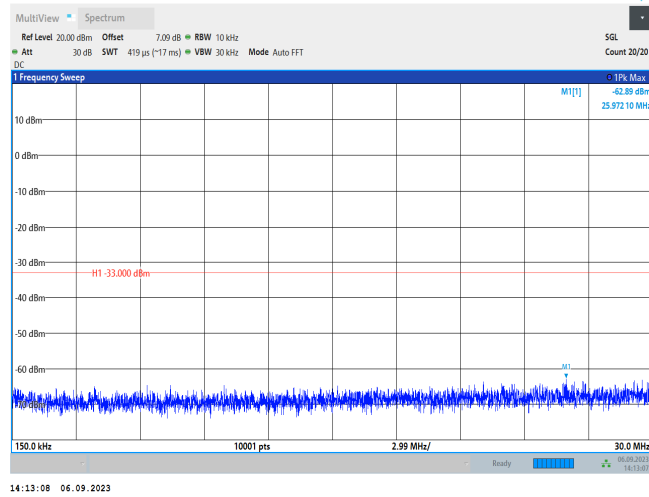


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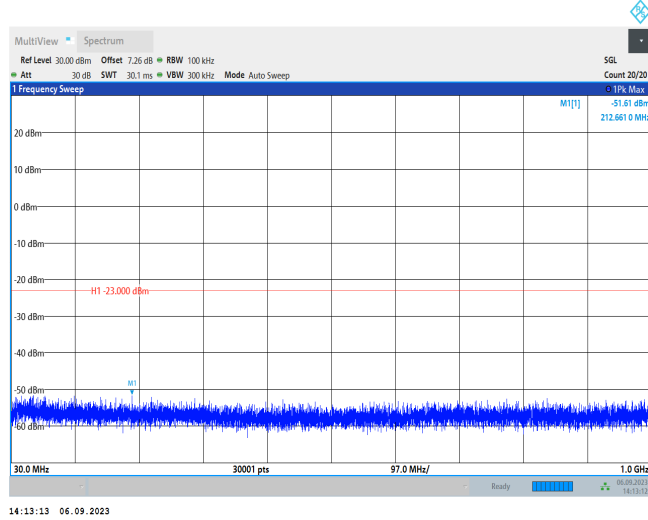


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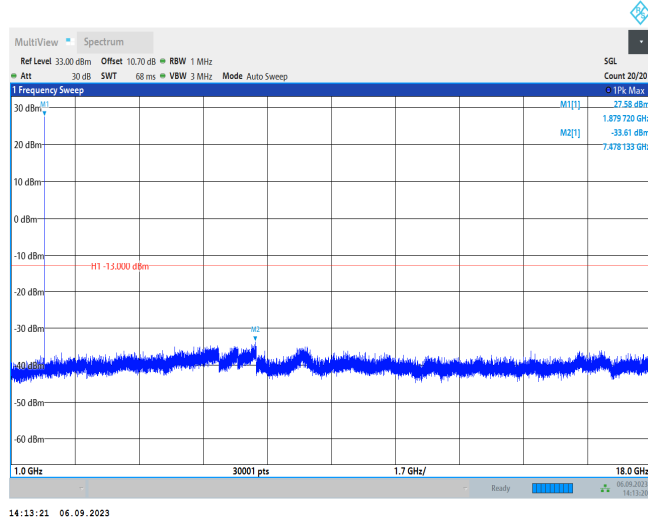
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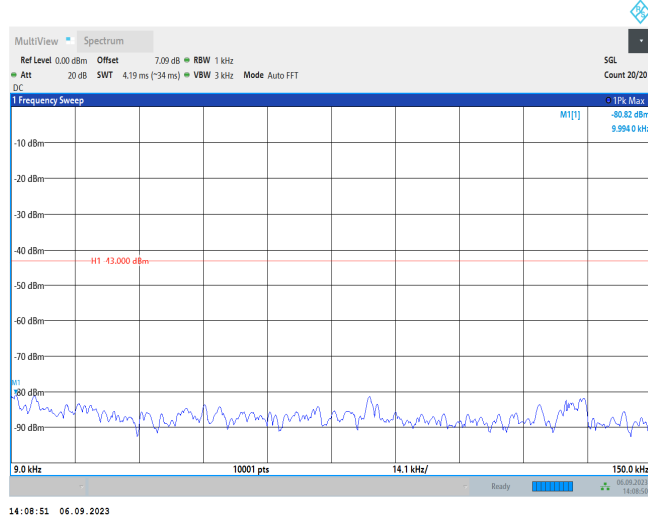


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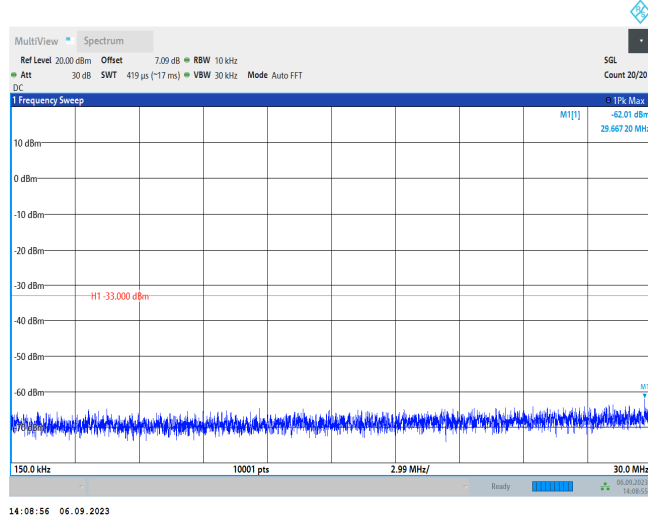


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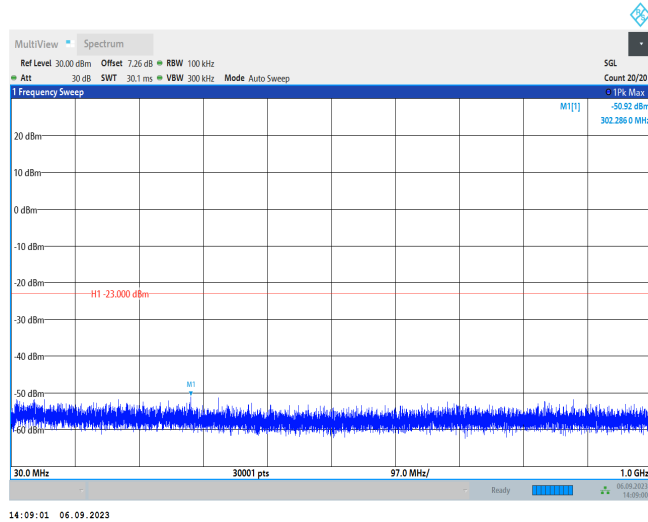
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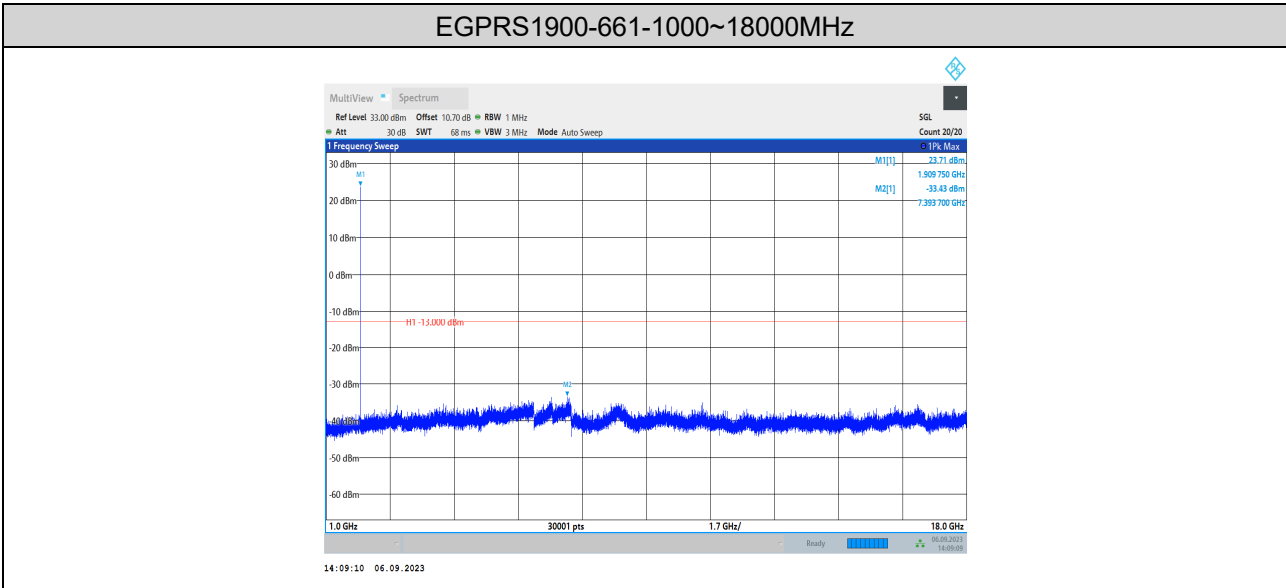
EGPRS1900-661-30~1000MHz



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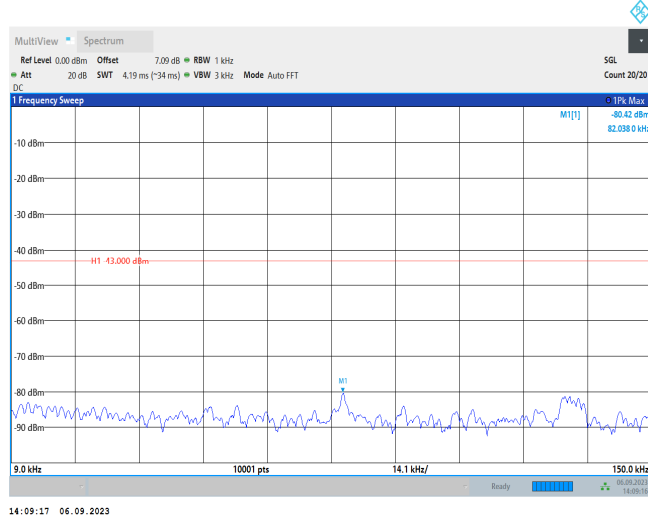


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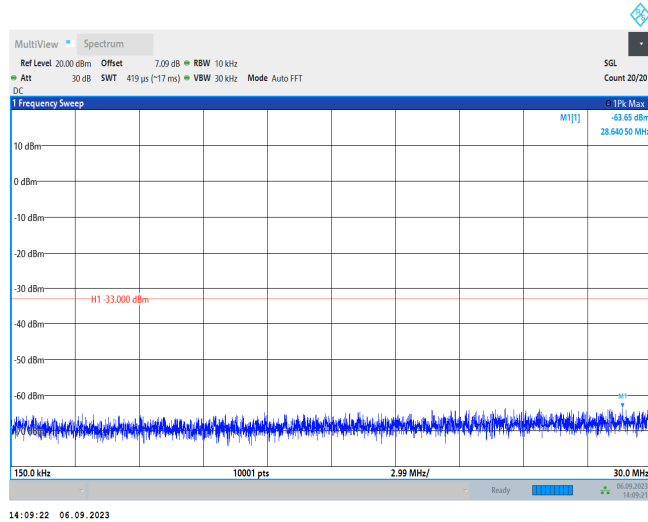
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EGPRS1900-810-0.009~0.15MHz



EGPRS1900-810-0.15~30MHz

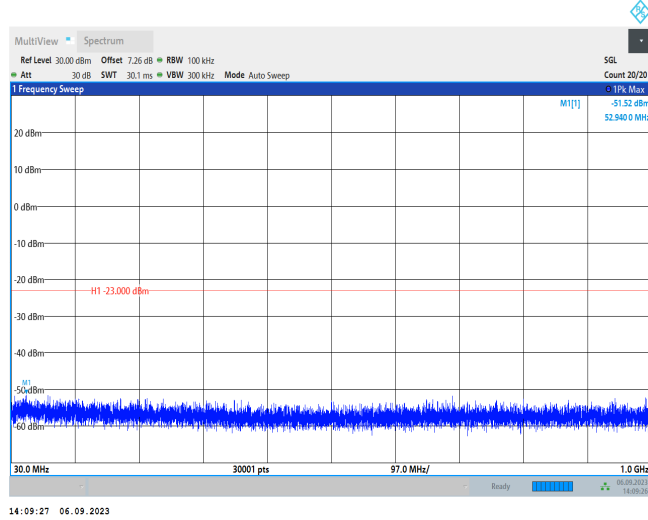


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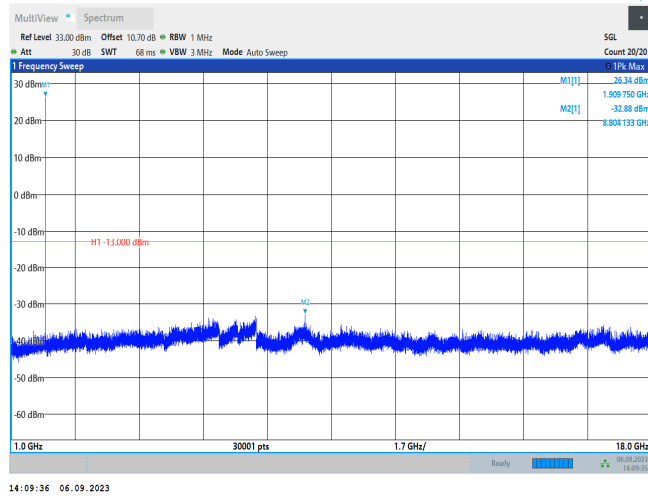
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EGPRS1900-810-30~1000MHz



EGPRS1900-810-1000~18000MHz



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Field Strength of Spurious Radiation(SKU3):

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

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4	73.98	-49.83	25.29	-45.81	-13.00	32.81	Horizontal
2	2472.6	71.69	-49.06	27.27	-45.36	-13.00	32.36	Horizontal
3	3296.8	59.37	-48.63	28.62	-55.90	-13.00	42.90	Horizontal
4	4121	51.68	-48.28	29.62	-62.24	-13.00	49.24	Horizontal
5	4945.2	43.11	-48.07	31.37	-68.86	-13.00	55.86	Horizontal
6	5769.4	43.72	-47.65	32.75	-66.44	-13.00	53.44	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4	74.16	-49.83	25.29	-45.63	-13.00	32.63	Vertical
2	2472.6	75.21	-49.06	27.27	-41.84	-13.00	24.84	Vertical
3	3296.8	55.22	-48.63	28.62	-60.05	-13.00	47.05	Vertical
4	4121	52.74	-48.28	29.62	-61.18	-13.00	48.18	Vertical
5	4945.2	43.07	-48.07	31.37	-68.90	-13.00	55.90	Vertical
6	5769.4	43.30	-47.65	32.75	-66.86	-13.00	53.86	Vertical



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Test Band = GSM 1900_
Test Channel = Low Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.5	91.60	-48.51	28.98	-23.19	-13.00	10.19	Horizontal
2	5550.6	54.84	-47.66	32.71	-55.37	-13.00	42.37	Horizontal
3	7400.8	44.41	-46.17	36.56	-60.46	-13.00	47.46	Horizontal
4	9251	40.98	-43.20	37.83	-59.66	-13.00	46.66	Horizontal
5	11101.2	37.63	-40.36	39.38	-58.61	-13.00	45.61	Horizontal
6	12951.4	36.37	-39.41	38.63	-59.67	-13.00	46.67	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.5	86.14	-48.51	28.98	-28.65	-13.00	15.65	Vertical
2	5550.6	54.51	-47.66	32.71	-55.70	-13.00	42.70	Vertical
3	7400.8	45.93	-46.17	36.56	-58.94	-13.00	45.94	Vertical
4	9251	40.53	-43.20	37.83	-60.11	-13.00	47.11	Vertical
5	11101.2	37.11	-40.36	39.38	-59.13	-13.00	46.13	Vertical
6	12951.4	39.24	-39.41	38.63	-56.80	-13.00	43.80	Vertical



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Test Band = GSM 1900_
Test Channel = Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759.75	89.43	-48.31	29.06	-25.08	-13.00	12.08	Horizontal
2	5640	53.31	-47.62	32.73	-56.84	-13.00	43.84	Horizontal
3	7520	51.45	-45.85	36.78	-52.88	-13.00	39.88	Horizontal
4	9400	39.82	-43.05	37.96	-60.53	-13.00	47.53	Horizontal
5	11280	37.33	-40.44	39.34	-59.02	-13.00	46.02	Horizontal
6	13160	35.87	-38.58	38.97	-59.00	-13.00	46.00	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759	83.53	-48.32	29.06	-30.98	-13.00	17.98	Vertical
2	5640	49.42	-47.62	32.73	-60.73	-13.00	47.73	Vertical
3	7520	47.81	-45.85	36.78	-56.52	-13.00	43.52	Vertical
4	9400	40.27	-43.05	37.96	-60.08	-13.00	47.08	Vertical
5	11280	37.44	-40.44	39.34	-58.91	-13.00	45.91	Vertical
6	13160	36.12	-38.58	38.97	-58.75	-13.00	45.75	Vertical



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Test Band = GSM 1900_
Test Channel = High Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819	85.43	-48.20	29.15	-28.88	-13.00	15.88	Horizontal
2	5729.25	58.26	-47.54	32.75	-51.79	-13.00	38.79	Horizontal
3	7639.2	43.50	-44.82	36.63	-59.95	-13.00	46.95	Horizontal
4	9549	40.96	-42.31	38.09	-58.51	-13.00	45.51	Horizontal
5	11458.8	37.08	-40.07	39.31	-58.94	-13.00	45.94	Horizontal
6	13368.6	36.62	-39.15	39.45	-58.34	-13.00	45.34	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819	86.01	-48.20	29.15	-28.30	-13.00	15.30	Vertical
2	5729.25	56.37	-47.54	32.75	-53.68	-13.00	40.68	Vertical
3	7639.2	45.28	-44.82	36.63	-58.17	-13.00	45.17	Vertical
4	9549	43.45	-42.31	38.09	-56.02	-13.00	43.02	Vertical
5	11458.8	37.13	-40.07	39.31	-58.89	-13.00	45.89	Vertical
6	13368.6	36.41	-39.15	39.45	-58.55	-13.00	45.55	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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Test on the worst case(SKU4):

**Test Band = GSM 1900_
 Test Channel = Low Channel**

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.5	89.41	-48.51	28.98	-25.38	-13.00	12.38	Horizontal
2	5550.6	49.11	-47.66	32.71	-61.10	-13.00	48.10	Horizontal
3	7400.8	45.99	-46.17	36.56	-58.88	-13.00	45.88	Horizontal
4	9251	43.01	-43.20	37.83	-57.63	-13.00	44.63	Horizontal
5	11101.2	37.75	-40.36	39.38	-58.49	-13.00	45.49	Horizontal
6	12951.4	39.91	-39.41	38.63	-56.13	-13.00	43.13	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	12951	41.70	-39.41	38.63	-54.34	-13.00	41.34	Vertical
2	3700.4	90.39	-48.51	28.98	-24.40	-13.00	11.40	Vertical
3	5550.6	47.97	-47.66	32.71	-62.24	-13.00	49.24	Vertical
4	7400.8	55.09	-46.17	36.56	-49.78	-13.00	36.78	Vertical
5	9251	41.28	-43.20	37.83	-59.36	-13.00	46.36	Vertical
6	11101.2	37.34	-40.36	39.38	-58.90	-13.00	45.90	Vertical



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Test Band = GSM 1900_
Test Channel = Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759.75	87.91	-48.31	29.06	-26.60	-13.00	13.60	Horizontal
2	5640	45.44	-47.62	32.73	-64.71	-13.00	51.71	Horizontal
3	7520	46.72	-45.85	36.78	-57.61	-13.00	44.61	Horizontal
4	9400	41.37	-43.05	37.96	-58.98	-13.00	45.98	Horizontal
5	11280	37.56	-40.44	39.34	-58.79	-13.00	45.79	Horizontal
6	13160	44.60	-38.58	38.97	-50.27	-13.00	37.27	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759.75	84.30	-48.31	29.06	-30.21	-13.00	17.21	Vertical
2	5640	46.53	-47.62	32.73	-63.62	-13.00	50.62	Vertical
3	7520	44.65	-45.85	36.78	-59.68	-13.00	46.68	Vertical
4	9400	41.26	-43.05	37.96	-59.09	-13.00	46.09	Vertical
5	11280	38.22	-40.44	39.34	-58.13	-13.00	45.13	Vertical
6	13160	40.91	-38.58	38.97	-53.96	-13.00	40.96	Vertical



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Test Band = GSM 1900_
Test Channel = High Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819	86.10	-48.20	29.15	-28.21	-13.00	15.21	Horizontal
2	5729.25	45.14	-47.54	32.75	-64.91	-13.00	51.91	Horizontal
3	7639.2	40.86	-44.82	36.63	-62.59	-13.00	49.59	Horizontal
4	9549	42.34	-42.31	38.09	-57.13	-13.00	44.13	Horizontal
5	11458.8	37.79	-40.07	39.31	-58.23	-13.00	45.23	Horizontal
6	13368.6	44.34	-39.15	39.45	-50.62	-13.00	37.62	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819	87.98	-48.20	29.15	-26.33	-13.00	13.33	Vertical
2	5729.25	48.94	-47.54	32.75	-61.11	-13.00	48.11	Vertical
3	7639.5	45.70	-44.82	36.63	-57.75	-13.00	44.75	Vertical
4	9549	45.95	-42.31	38.09	-53.52	-13.00	40.52	Vertical
5	11458.8	38.53	-40.07	39.31	-57.49	-13.00	44.49	Vertical
6	13368.6	42.38	-39.15	39.45	-52.58	-13.00	39.58	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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Test on the worst case(SKU6):

**Test Band = GSM 1900_
 Test Channel = Low Channel**

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.5	88.33	-48.51	28.98	-26.46	-13.00	13.46	Horizontal
2	5550.6	47.73	-47.66	32.71	-62.48	-13.00	49.48	Horizontal
3	7400.8	48.96	-46.17	36.56	-55.91	-13.00	42.91	Horizontal
4	9251	41.16	-43.20	37.83	-59.48	-13.00	46.48	Horizontal
5	11101.2	37.21	-40.36	39.38	-59.03	-13.00	46.03	Horizontal
6	12951.4	35.93	-39.41	38.63	-60.11	-13.00	47.11	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.5	85.83	-48.51	28.98	-28.96	-13.00	15.96	Vertical
2	5550.6	57.80	-47.66	32.71	-52.41	-13.00	39.41	Vertical
3	7400.8	49.24	-46.17	36.56	-55.63	-13.00	42.63	Vertical
4	9251	40.56	-43.20	37.83	-60.08	-13.00	47.08	Vertical
5	11101.2	36.79	-40.36	39.38	-59.45	-13.00	46.45	Vertical
6	12951.4	36.45	-39.41	38.63	-59.59	-13.00	46.59	Vertical



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Test Band = GSM 1900_
Test Channel = Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759.75	83.99	-48.31	29.06	-30.52	-13.00	17.52	Horizontal
2	5640	43.81	-47.62	32.73	-66.34	-13.00	53.34	Horizontal
3	7520	48.33	-45.85	36.78	-56.00	-13.00	43.00	Horizontal
4	9400	39.66	-43.05	37.96	-60.69	-13.00	47.69	Horizontal
5	11280	37.86	-40.44	39.34	-58.49	-13.00	45.49	Horizontal
6	13160	35.81	-38.58	38.97	-59.06	-13.00	46.06	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759.75	85.19	-48.31	29.06	-29.32	-13.00	16.32	Vertical
2	5640	43.15	-47.62	32.73	-67.00	-13.00	54.00	Vertical
3	7520	49.56	-45.85	36.78	-54.77	-13.00	41.77	Vertical
4	9400	40.52	-43.05	37.96	-59.83	-13.00	46.83	Vertical
5	11280	37.54	-40.44	39.34	-58.81	-13.00	45.81	Vertical
6	13160	36.04	-38.58	38.97	-58.83	-13.00	45.83	Vertical



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Test Band = GSM 1900_
Test Channel = High Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819	84.16	-48.20	29.15	-30.15	-13.00	17.15	Horizontal
2	5729.4	43.21	-47.54	32.75	-66.84	-13.00	53.84	Horizontal
3	7639.2	42.14	-44.82	36.63	-61.31	-13.00	48.31	Horizontal
4	9549	42.76	-42.31	38.09	-56.71	-13.00	43.71	Horizontal
5	11458.8	37.03	-40.07	39.31	-58.99	-13.00	45.99	Horizontal
6	13368.6	36.55	-39.15	39.45	-58.41	-13.00	45.41	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819	83.62	-48.20	29.15	-30.69	-13.00	17.69	Vertical
2	5729.4	43.24	-47.54	32.75	-66.81	-13.00	53.81	Vertical
3	7639.2	44.38	-44.82	36.63	-59.07	-13.00	46.07	Vertical
4	9549	45.16	-42.31	38.09	-54.31	-13.00	41.31	Vertical
5	11458.8	39.06	-40.07	39.31	-56.96	-13.00	43.96	Vertical
6	13368.6	36.44	-39.15	39.45	-58.52	-13.00	45.52	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	0.84	0.001004	±2.5	PASS
GSM850	190	VN	NT	-3.78	-0.004518	±2.5	PASS
GSM850	190	VH	NT	-2.07	-0.002474	±2.5	PASS
EGPRS850	190	VL	NT	-14.46	-0.017284	±2.5	PASS
EGPRS850	190	VN	NT	-10.56	-0.012623	±2.5	PASS
EGPRS850	190	VH	NT	-5.29	-0.006323	±2.5	PASS

Voltage						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	28.67	0.015250	PASS
GSM1900	661	VN	NT	22.83	0.012144	PASS
GSM1900	661	VH	NT	22.60	0.012021	PASS
EGPRS1900	661	VL	NT	2.29	0.001218	PASS
EGPRS1900	661	VN	NT	4.62	0.002457	PASS
EGPRS1900	661	VH	NT	4.42	0.002351	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	-1.74	-0.002080	±2.5	PASS
GSM850	190	NV	-20	-0.42	-0.000502	±2.5	PASS
GSM850	190	NV	-10	-0.94	-0.001124	±2.5	PASS
GSM850	190	NV	0	-5.00	-0.005977	±2.5	PASS
GSM850	190	NV	10	-0.77	-0.000920	±2.5	PASS
GSM850	190	NV	20	8.27	0.009885	±2.5	PASS
GSM850	190	NV	30	8.17	0.009766	±2.5	PASS
GSM850	190	NV	40	10.14	0.012120	±2.5	PASS
GSM850	190	NV	50	7.85	0.009383	±2.5	PASS
EGPRS850	190	NV	-30	-9.01	-0.010770	±2.5	PASS
EGPRS850	190	NV	-20	-6.72	-0.008033	±2.5	PASS
EGPRS850	190	NV	-10	-7.88	-0.009419	±2.5	PASS
EGPRS850	190	NV	0	-8.94	-0.010686	±2.5	PASS
EGPRS850	190	NV	10	-14.46	-0.017284	±2.5	PASS
EGPRS850	190	NV	20	-4.07	-0.004865	±2.5	PASS
EGPRS850	190	NV	30	-2.10	-0.002510	±2.5	PASS
EGPRS850	190	NV	40	2.13	0.002546	±2.5	PASS
EGPRS850	190	NV	50	1.29	0.001542	±2.5	PASS



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Temperature						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	24.50	0.013032	PASS
GSM1900	661	NV	-20	26.60	0.014149	PASS
GSM1900	661	NV	-10	30.28	0.016106	PASS
GSM1900	661	NV	0	20.70	0.011011	PASS
GSM1900	661	NV	10	13.11	0.006973	PASS
GSM1900	661	NV	20	44.07	0.023441	PASS
GSM1900	661	NV	30	54.18	0.028819	PASS
GSM1900	661	NV	40	55.73	0.029644	PASS
GSM1900	661	NV	50	58.89	0.031324	PASS
EGPRS1900	661	NV	-30	1.16	0.000617	PASS
EGPRS1900	661	NV	-20	3.52	0.001872	PASS
EGPRS1900	661	NV	-10	1.65	0.000878	PASS
EGPRS1900	661	NV	0	2.26	0.001202	PASS
EGPRS1900	661	NV	10	5.49	0.002920	PASS
EGPRS1900	661	NV	20	0.55	0.000293	PASS
EGPRS1900	661	NV	30	27.48	0.014617	PASS
EGPRS1900	661	NV	40	22.47	0.011952	PASS
EGPRS1900	661	NV	50	30.51	0.016229	PASS

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