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# Appendix B.1

## GSM850&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	32.66	26.81	38.50	PASS
GSM850	190	33.09	27.24	38.50	PASS
GSM850	251	33.05	27.2	38.50	PASS

Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.25	21.4	38.50	PASS
EGPRS850	128	2	24.77	18.92	38.50	PASS
EGPRS850	128	3	22.92	17.07	38.50	PASS
EGPRS850	128	4	21.05	15.2	38.50	PASS
EGPRS850	190	1	26.53	20.68	38.50	PASS
EGPRS850	190	2	24.61	18.76	38.50	PASS
EGPRS850	190	3	22.75	16.9	38.50	PASS
EGPRS850	190	4	20.86	15.01	38.50	PASS
EGPRS850	251	1	26.64	20.79	38.50	PASS
EGPRS850	251	2	24.82	18.97	38.50	PASS
EGPRS850	251	3	22.85	17	38.50	PASS
EGPRS850	251	4	20.98	15.13	38.50	PASS

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## Ant2:

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	30.17	28.37	33.00	PASS
GSM1900	661	30.25	28.45	33.00	PASS
GSM1900	810	30.27	28.47	33.00	PASS

Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	26	24.2	33.00	PASS
EGPRS1900	512	2	23.71	21.91	33.00	PASS
EGPRS1900	512	3	21.85	20.05	33.00	PASS
EGPRS1900	512	4	20.21	18.41	33.00	PASS
EGPRS1900	661	1	25.94	24.14	33.00	PASS
EGPRS1900	661	2	23.62	21.82	33.00	PASS
EGPRS1900	661	3	21.85	20.05	33.00	PASS
EGPRS1900	661	4	20.16	18.36	33.00	PASS
EGPRS1900	810	1	25.65	23.85	33.00	PASS
EGPRS1900	810	2	23.36	21.56	33.00	PASS
EGPRS1900	810	3	21.68	19.88	33.00	PASS
EGPRS1900	810	4	20.27	18.47	33.00	PASS

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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	6.78	13	PASS
GSM850	190	6.42	13	PASS
GSM850	251	6.42	13	PASS
EGPRS850	128	12.6	13	PASS
EGPRS850	190	12.58	13	PASS
EGPRS850	251	12.6	13	PASS
GSM1900	512	9.42	13	PASS
GSM1900	661	9.42	13	PASS
GSM1900	810	9.42	13	PASS
EGPRS1900	512	12.84	13	PASS
EGPRS1900	661	12.82	13	PASS
EGPRS1900	810	12.82	13	PASS

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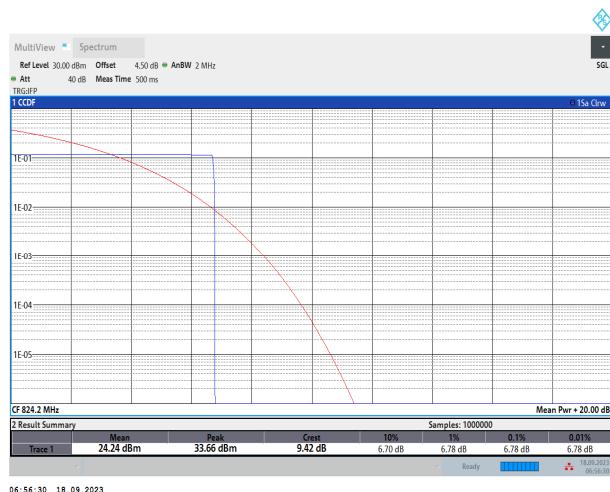
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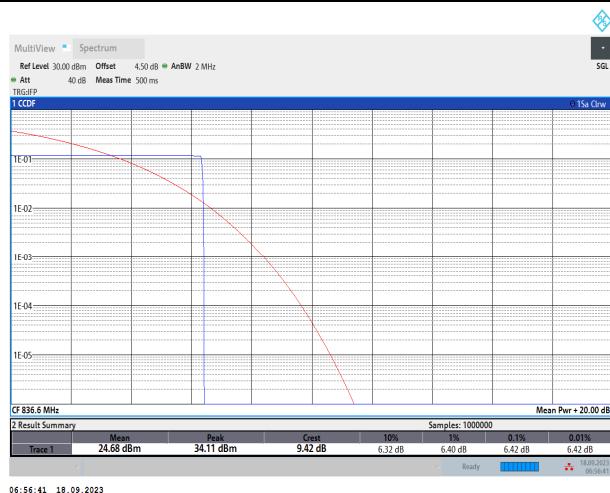
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## Test Graphs

GSM850-128



GSM850-190



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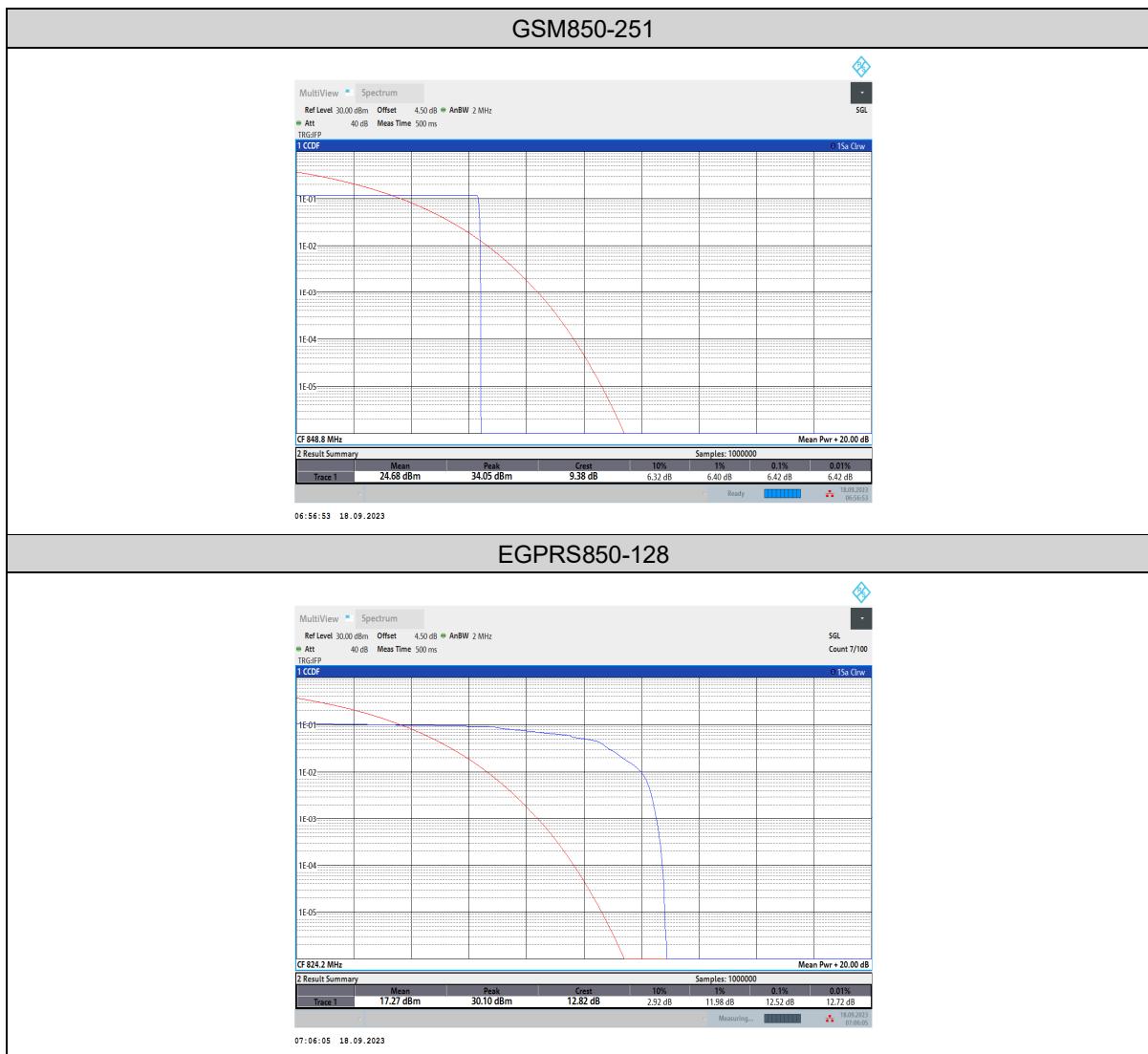
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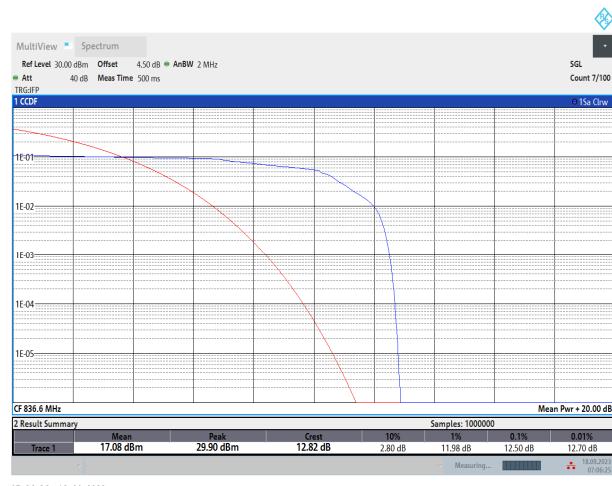
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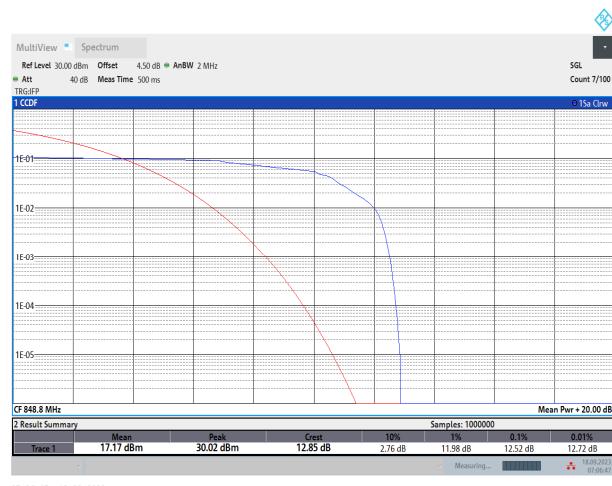
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## EGPRS850-190



## EGPRS850-251



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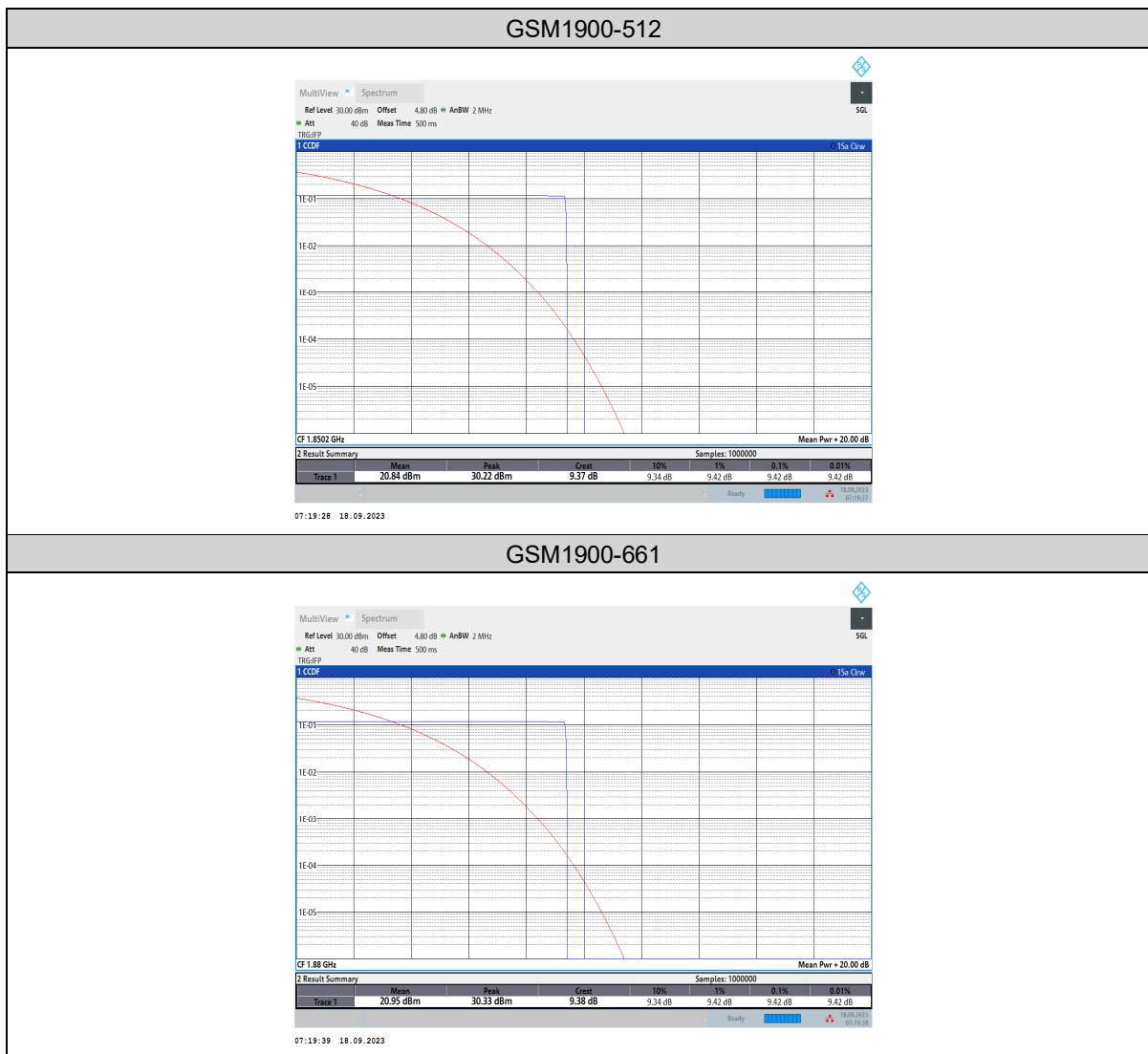
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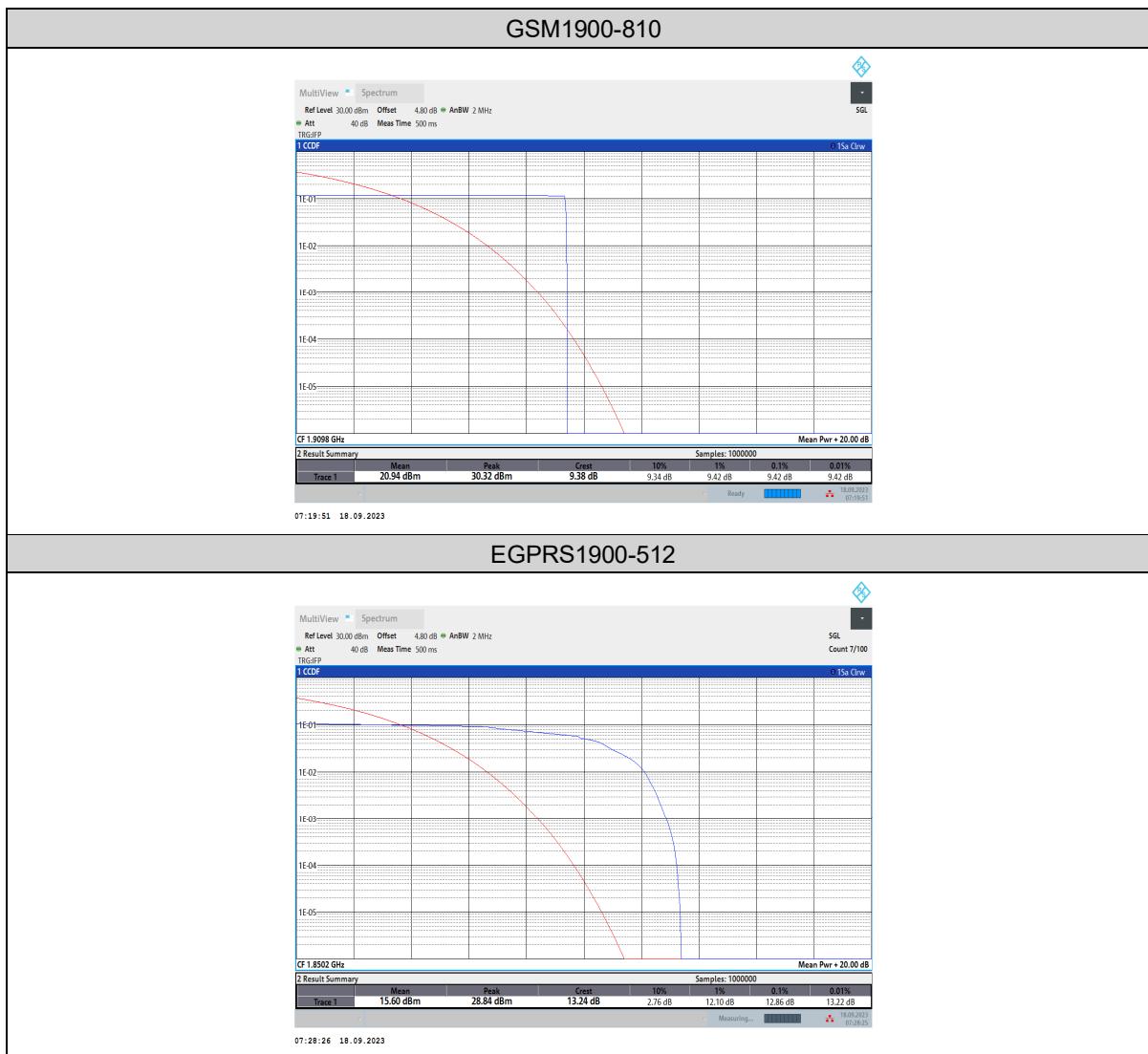
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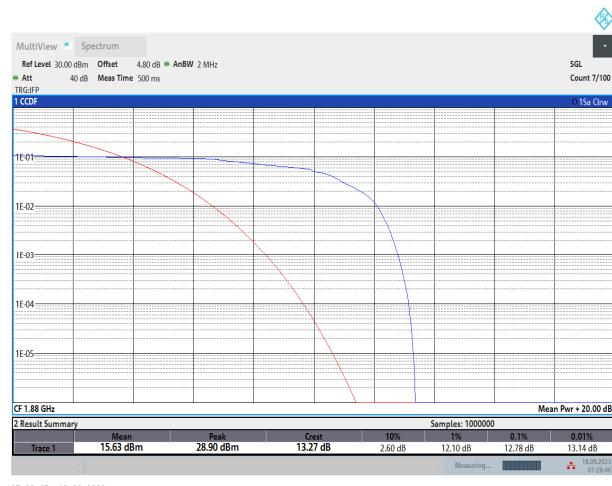
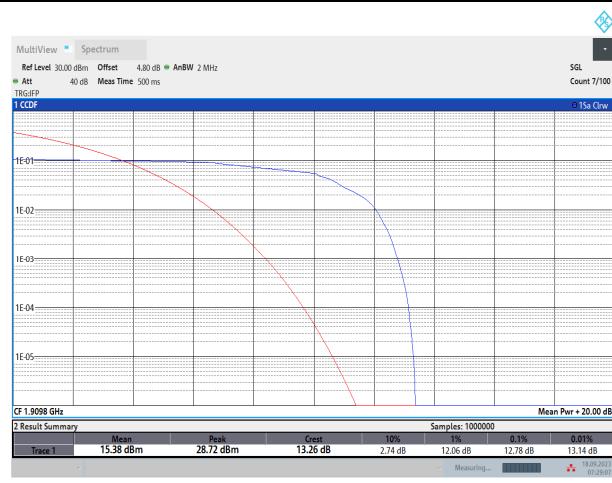
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**EGPRS1900-661****EGPRS1900-810**

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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.247	0.32	---	PASS
GSM850	190	0.247	0.32	---	PASS
GSM850	251	0.246	0.32	---	PASS
EGPRS850	128	0.249	0.32	---	PASS
EGPRS850	190	0.248	0.32	---	PASS
EGPRS850	251	0.25	0.32	---	PASS
GSM1900	512	0.246	0.32	---	PASS
GSM1900	661	0.246	0.32	---	PASS
GSM1900	810	0.244	0.32	---	PASS
EGPRS1900	512	0.247	0.32	---	PASS
EGPRS1900	661	0.249	0.32	---	PASS
EGPRS1900	810	0.247	0.32	---	PASS

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## Test Graphs



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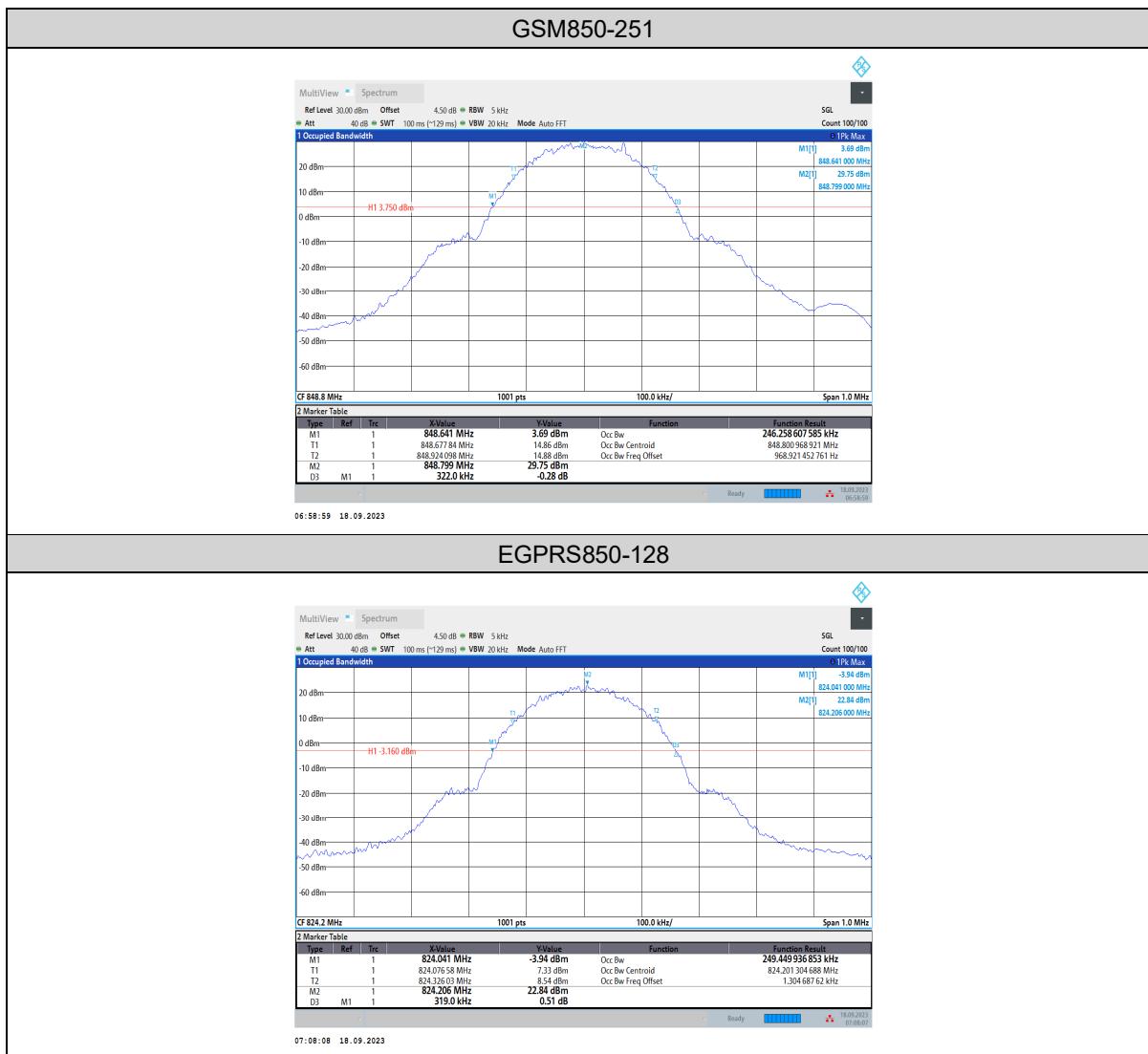
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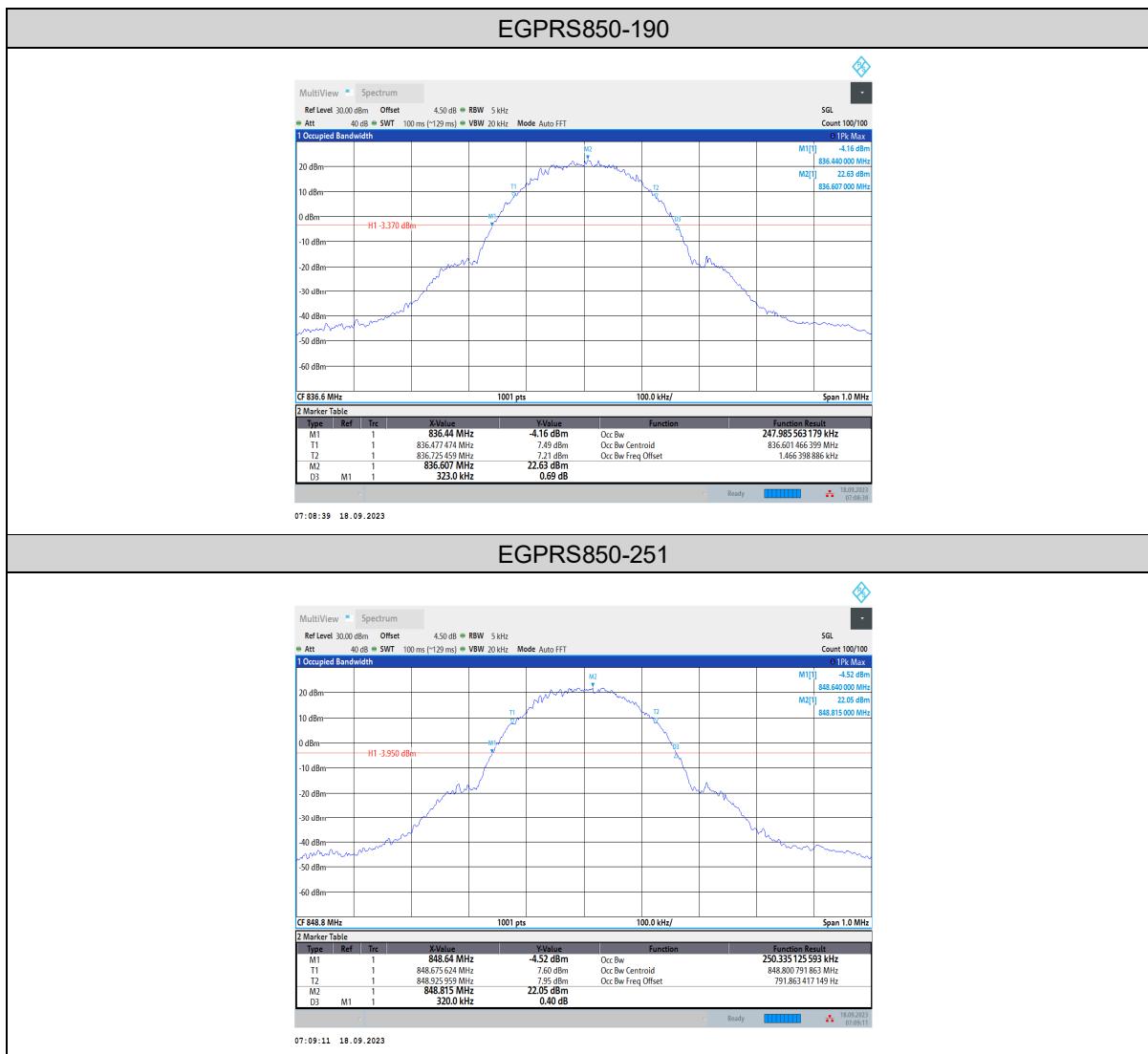
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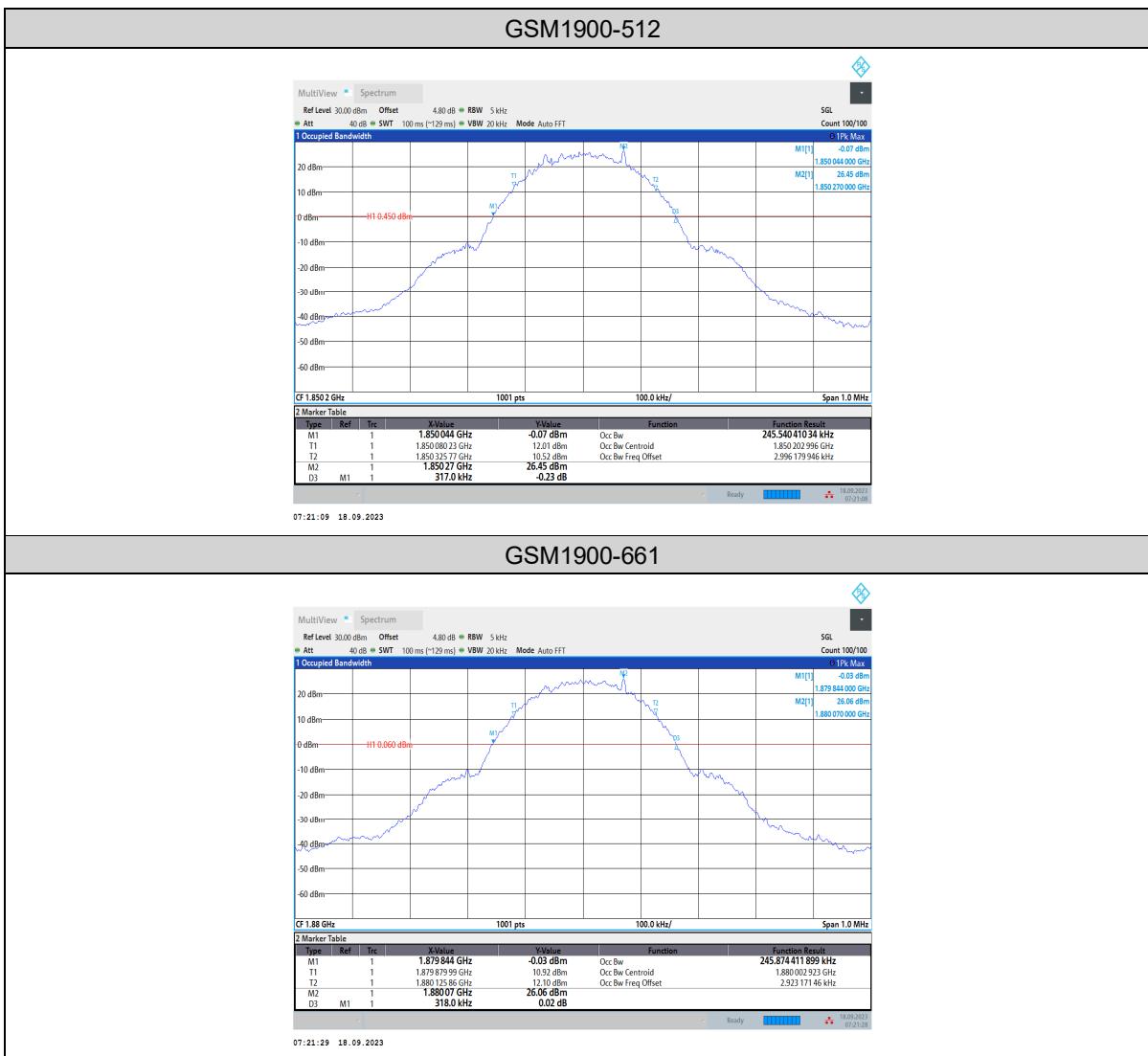
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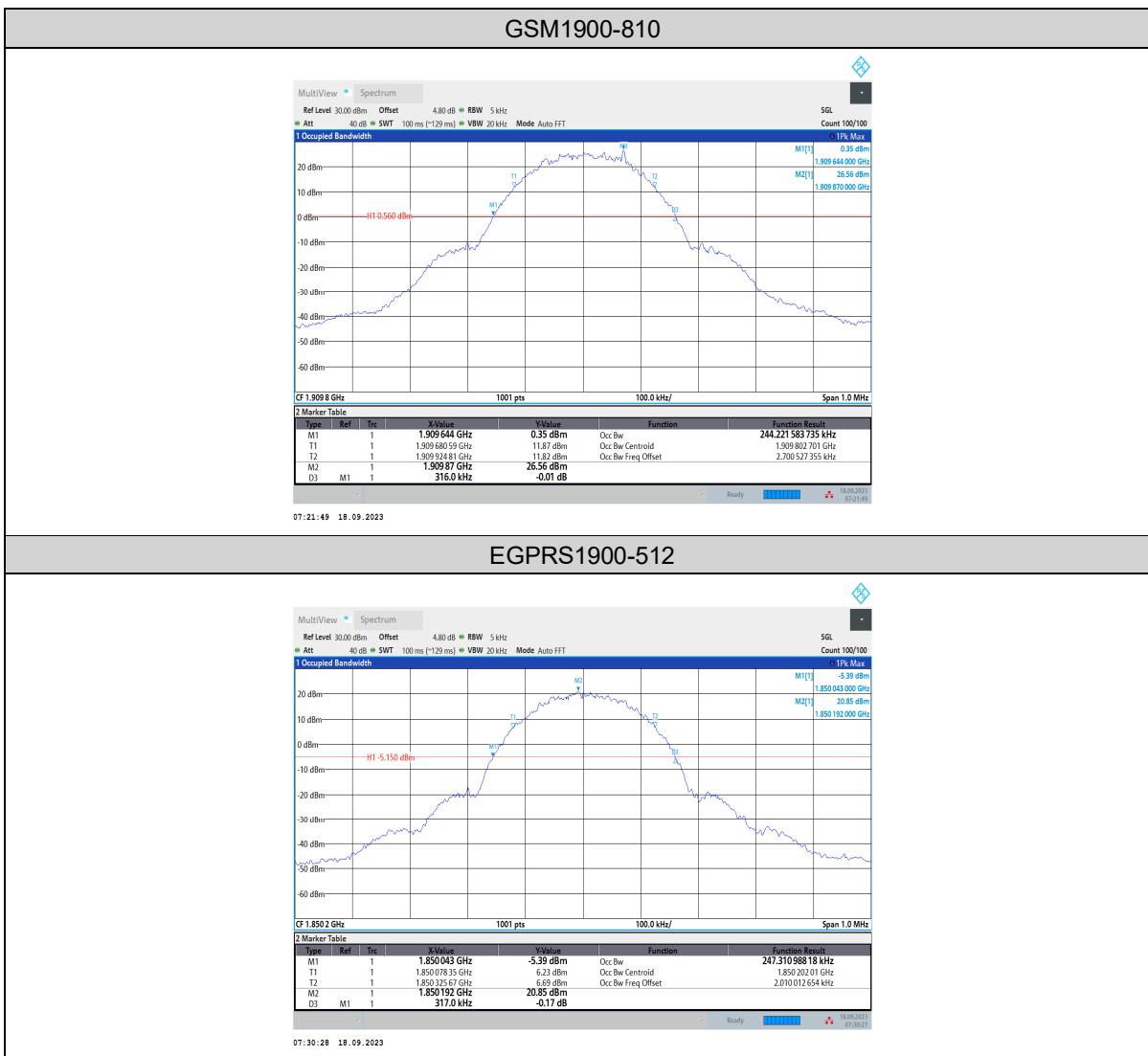
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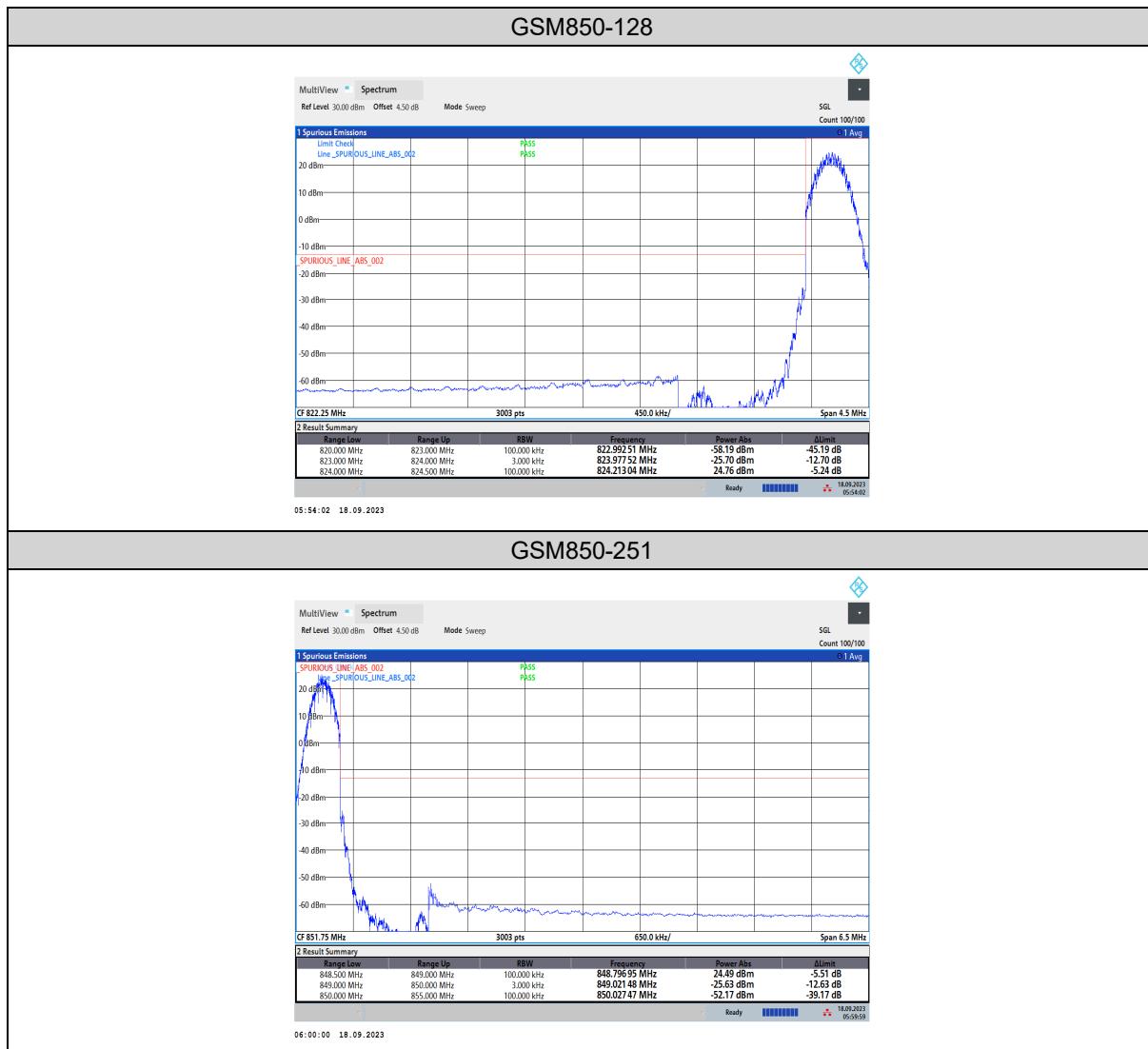
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## Band Edge

### Test Graphs



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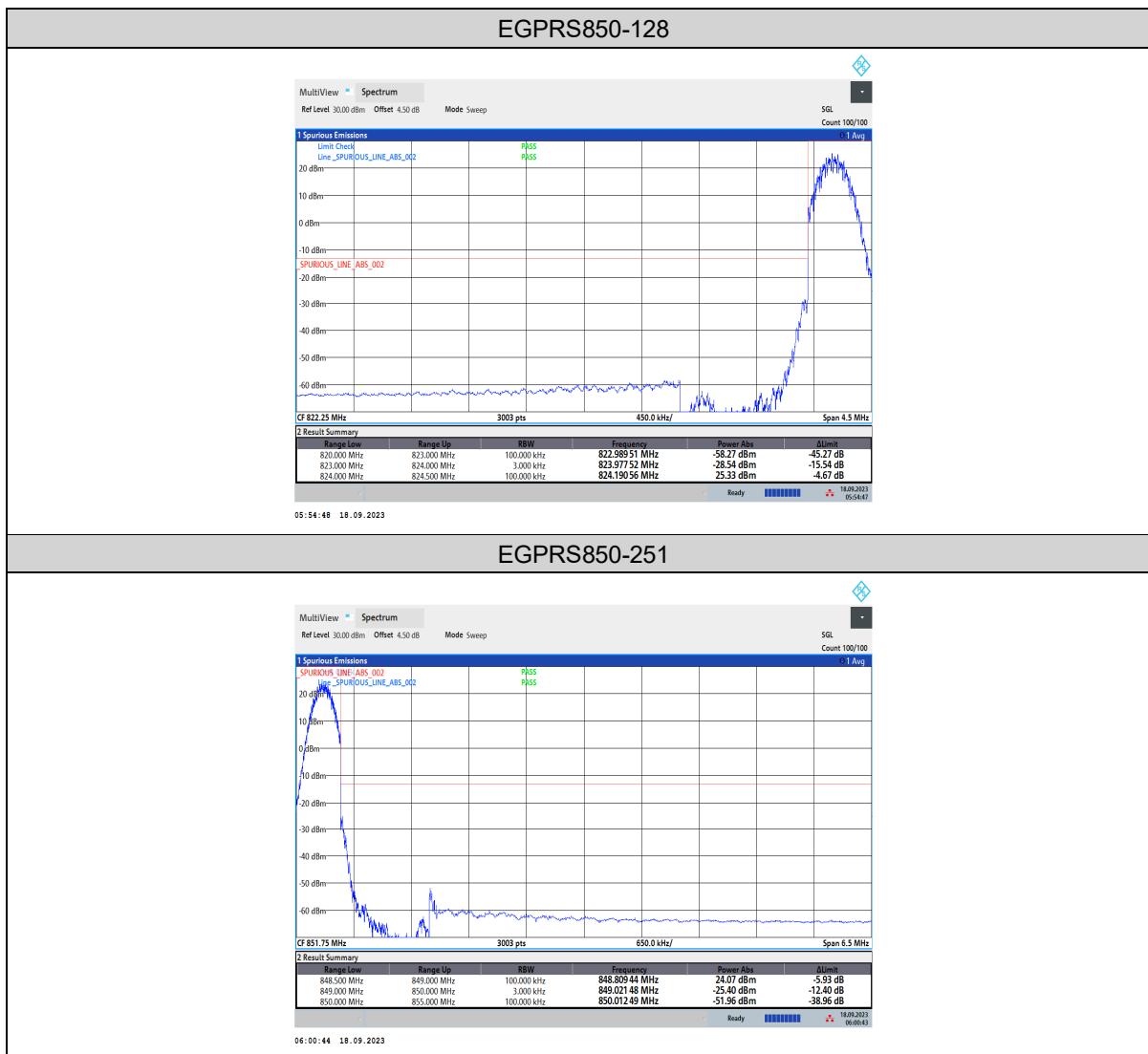
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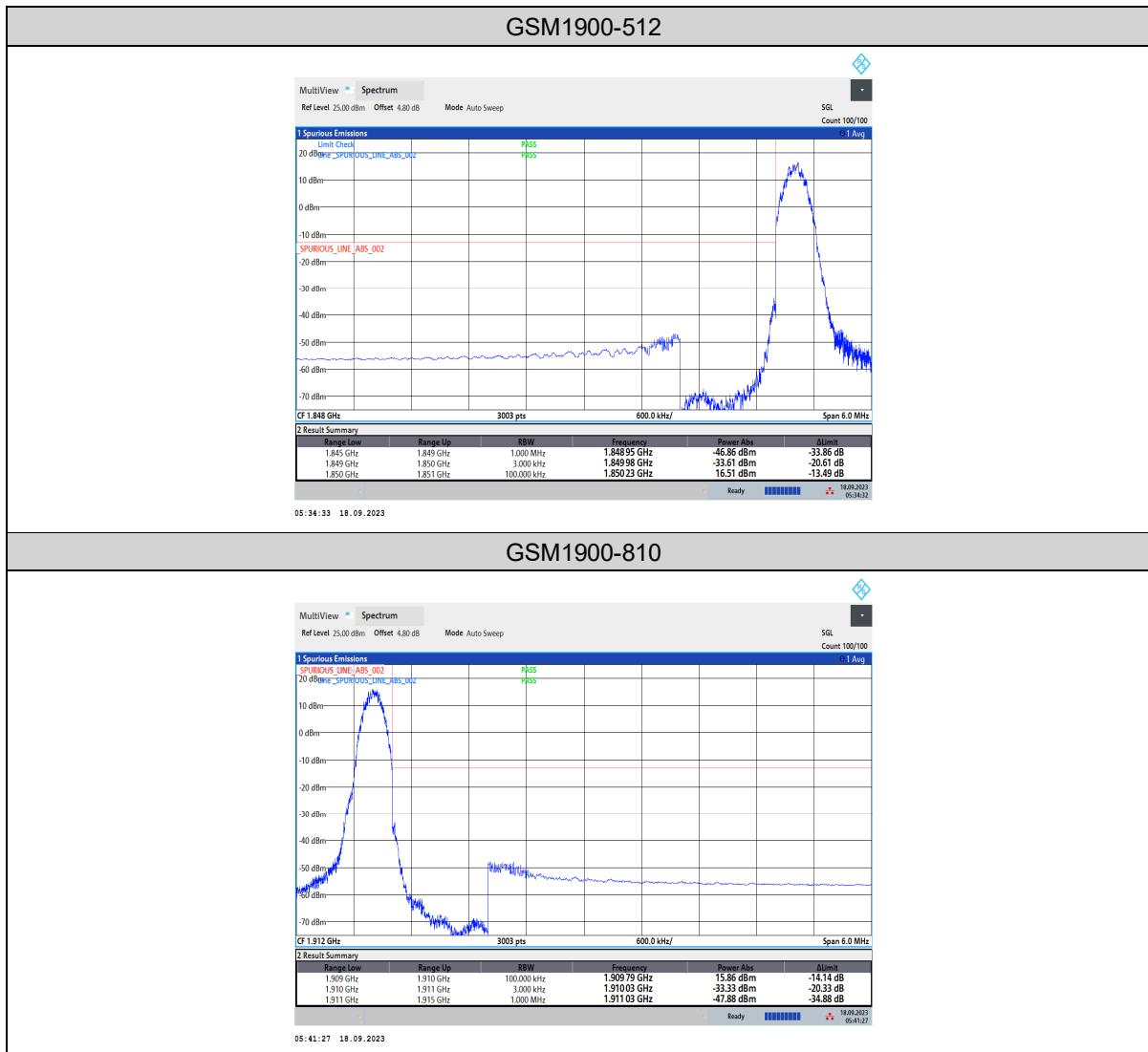
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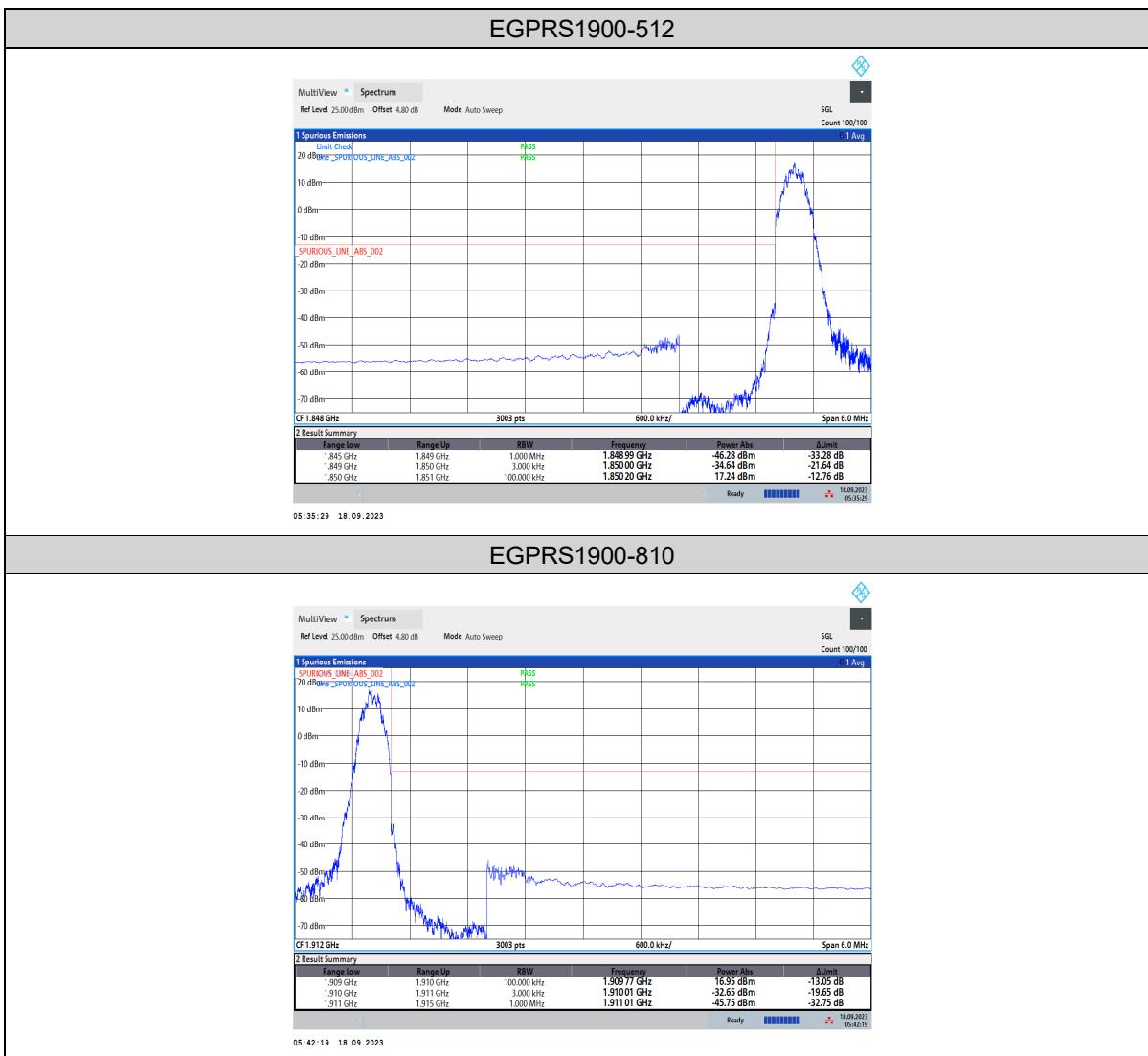
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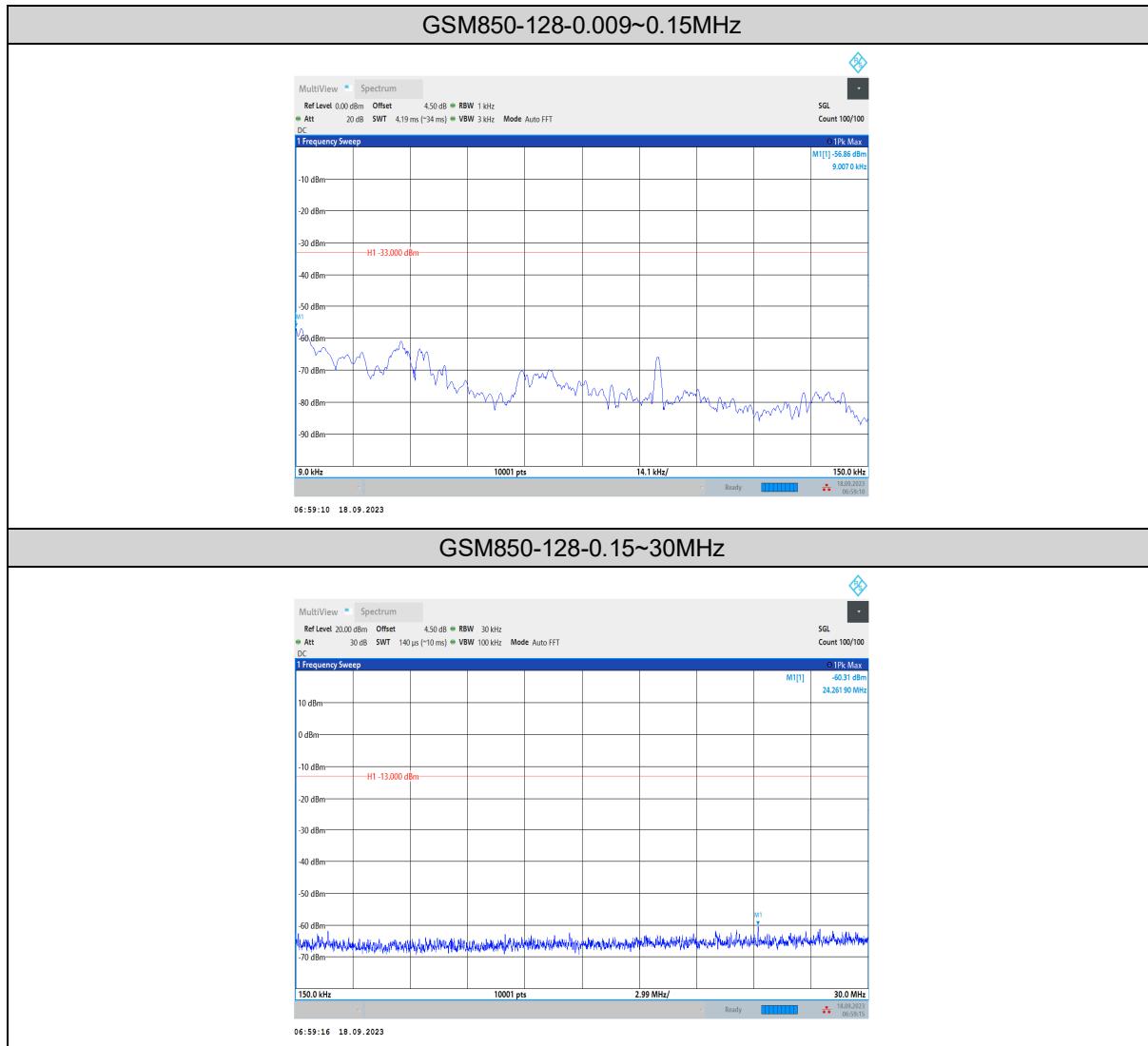
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## Conducted Spurious Emission

### Test Graphs



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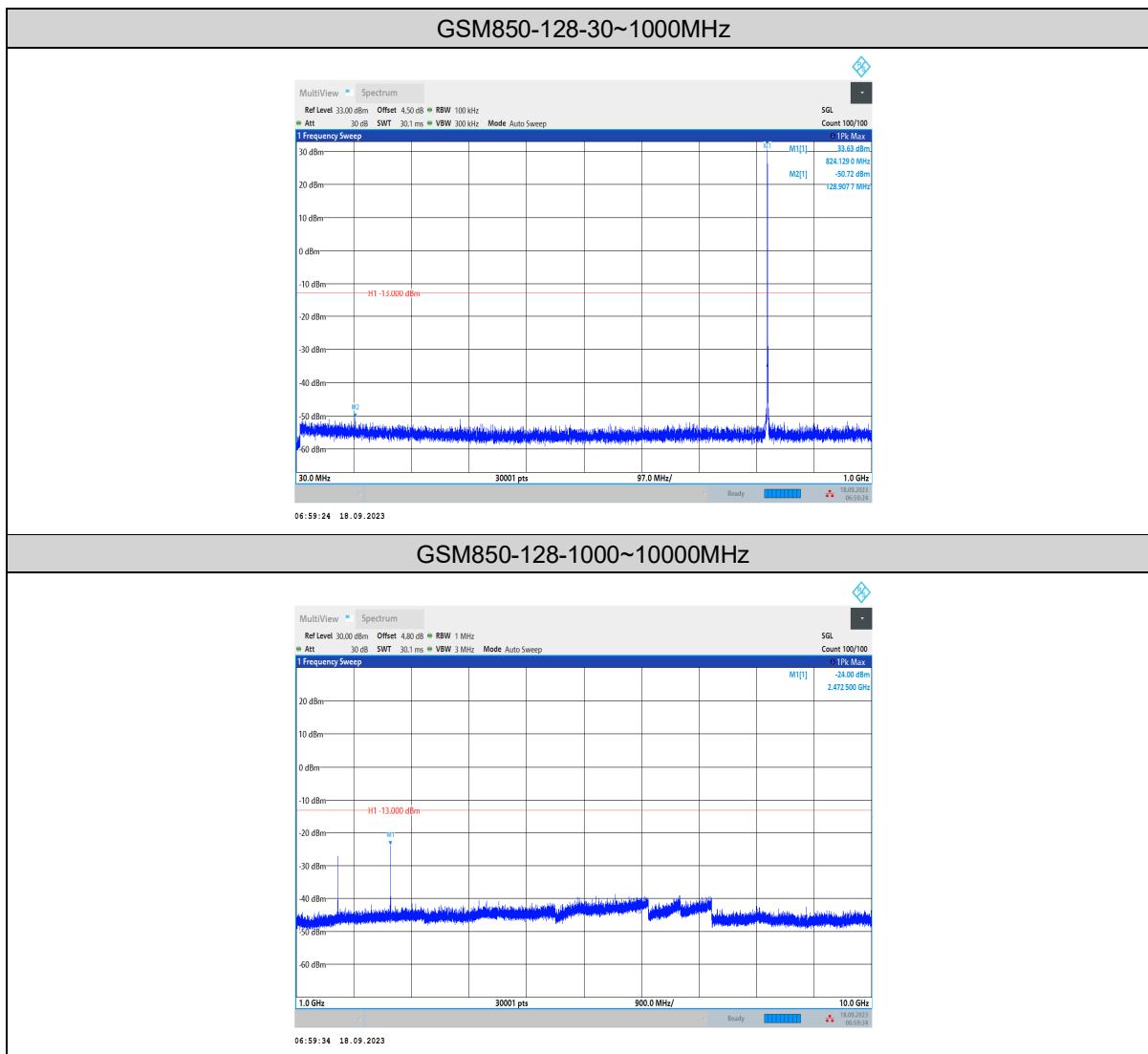
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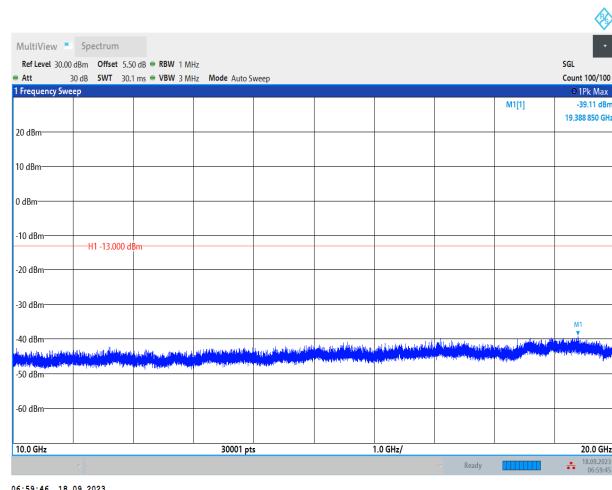
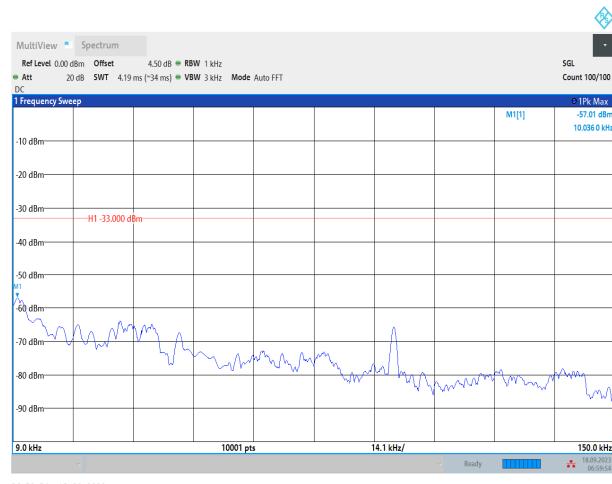
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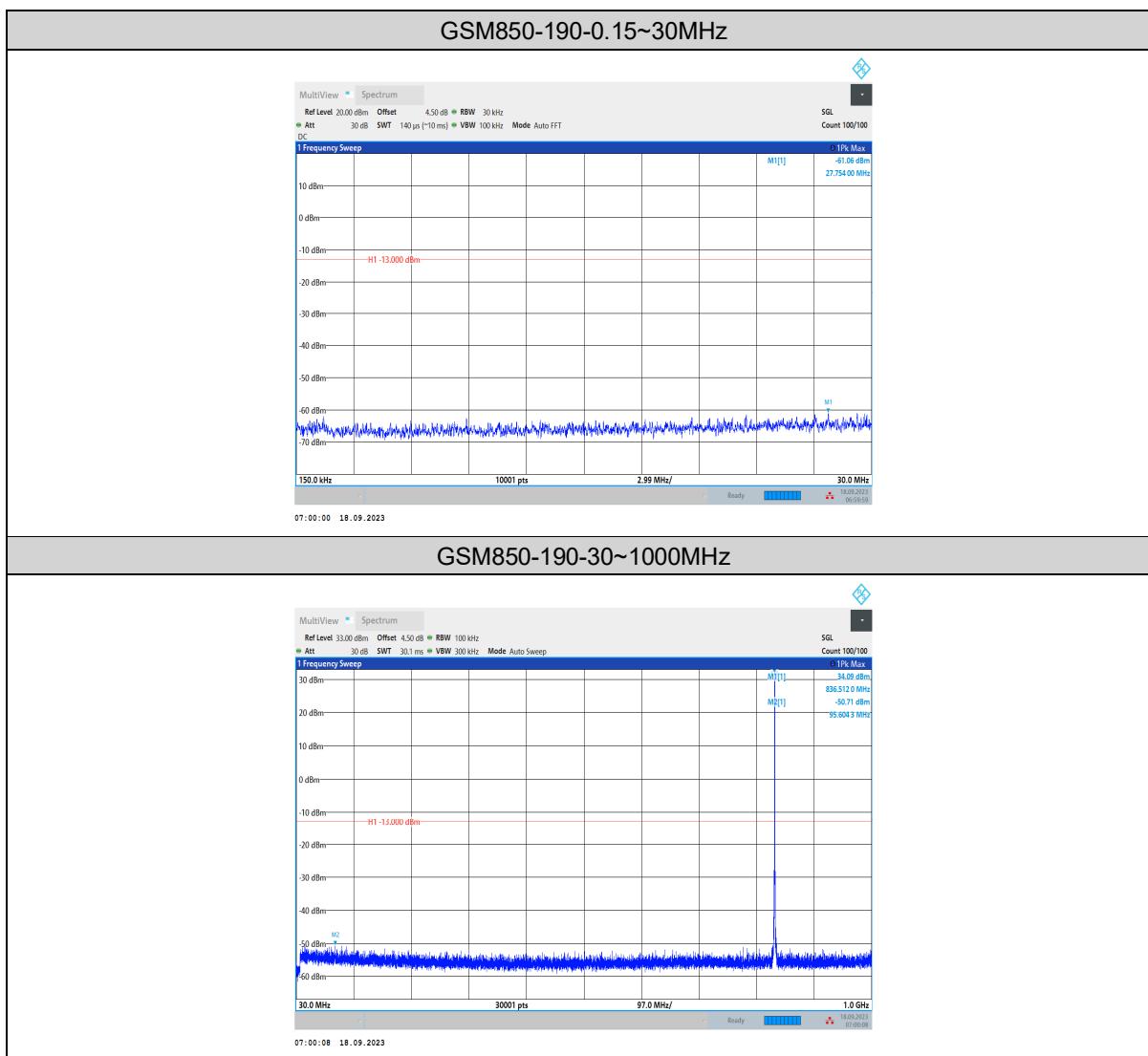
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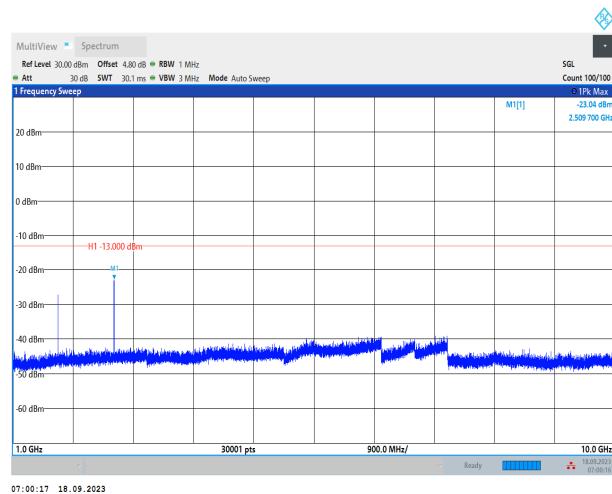
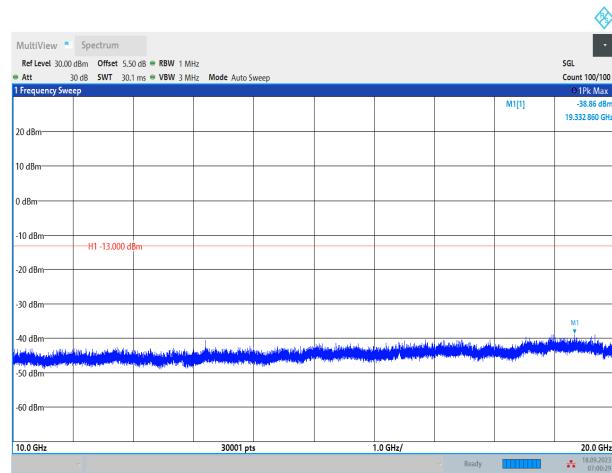
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**GSM850-190-1000~10000MHz****GSM850-190-10000~20000MHz**

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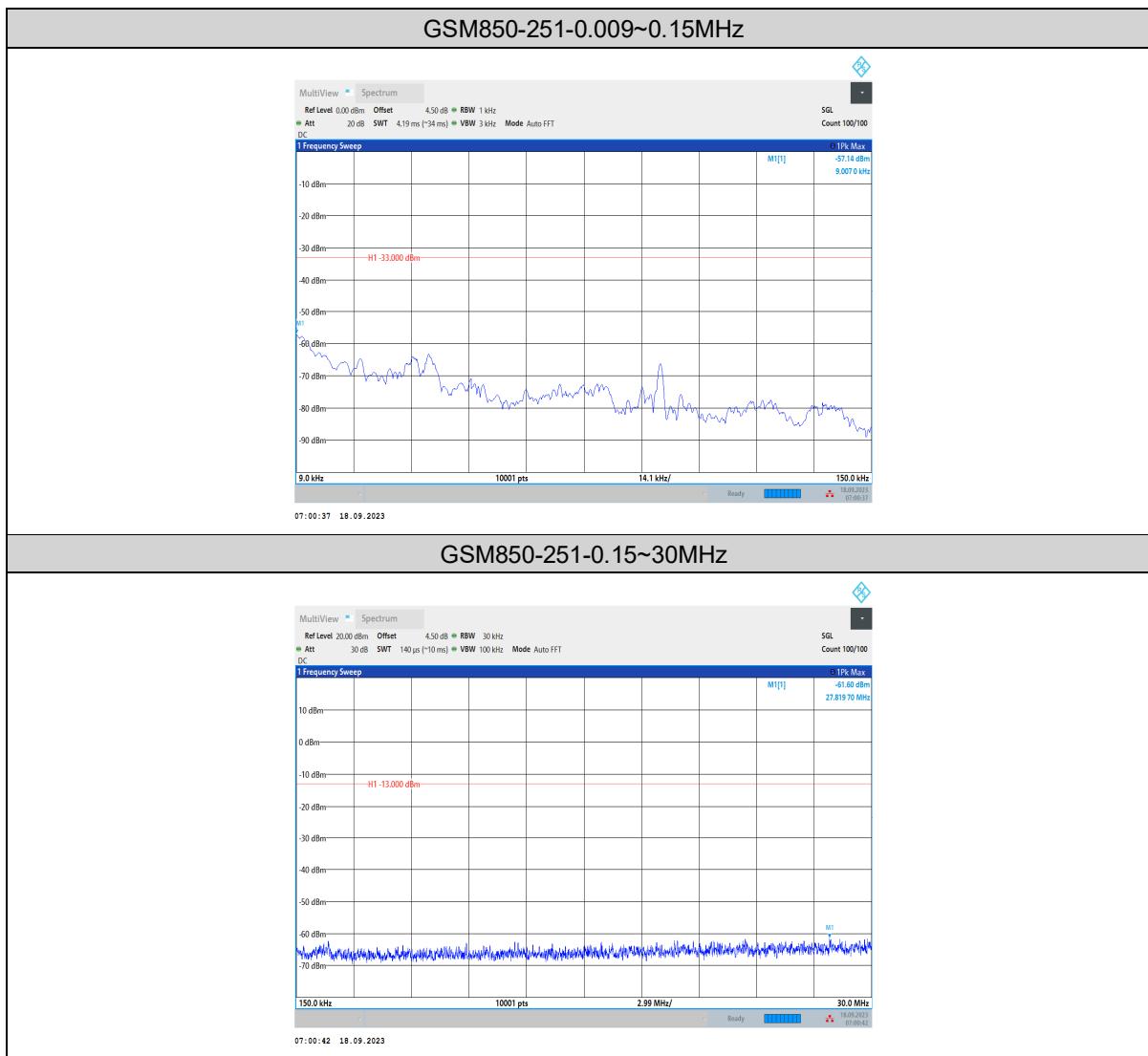
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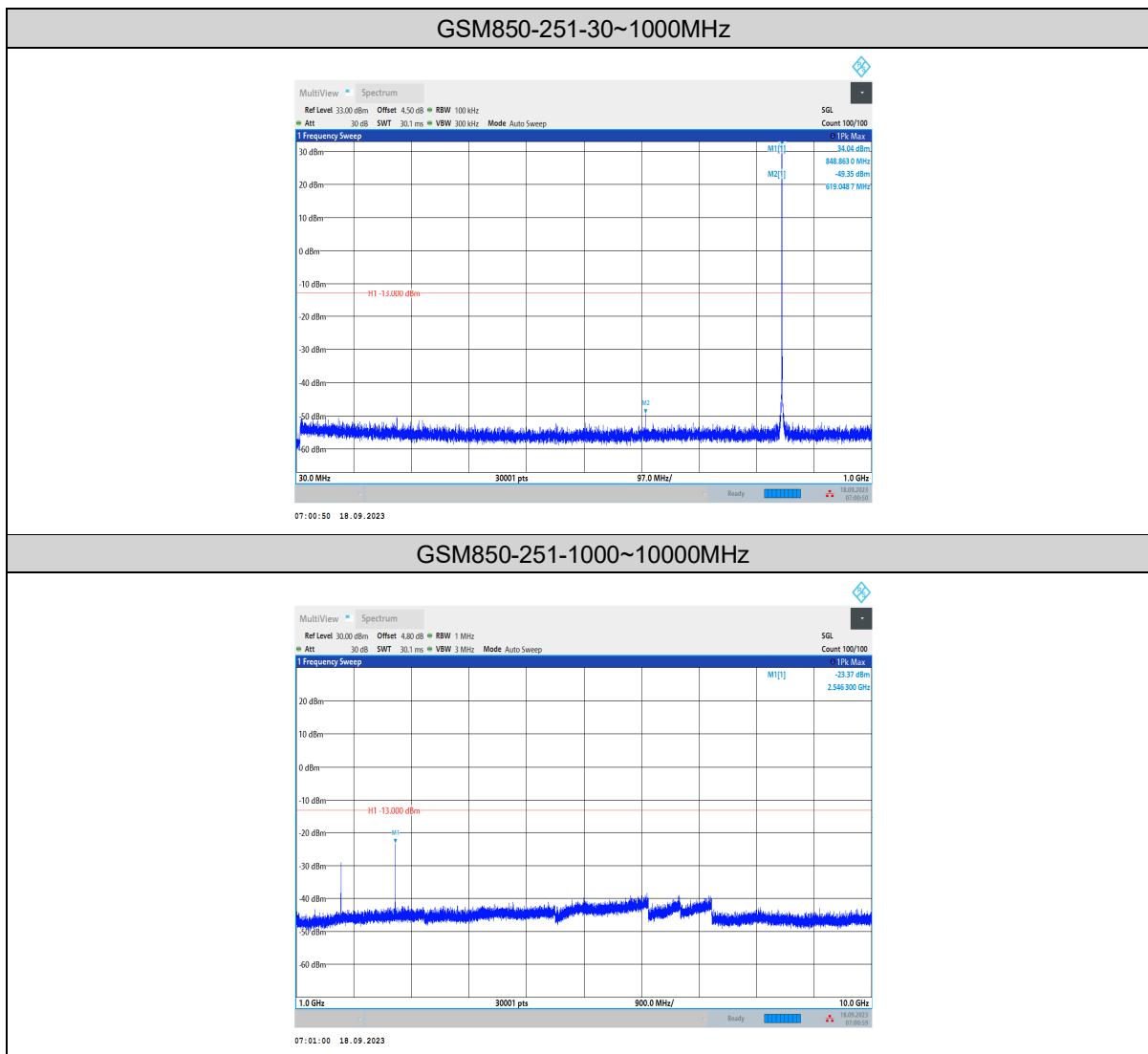
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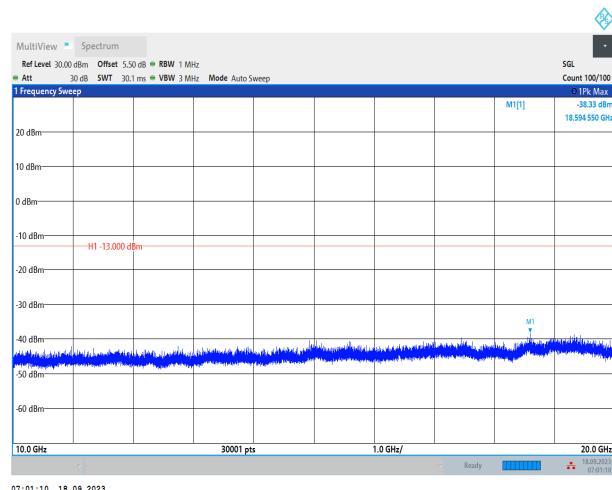
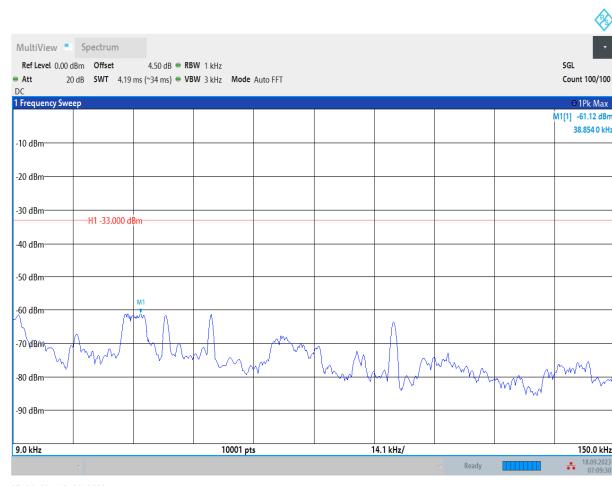
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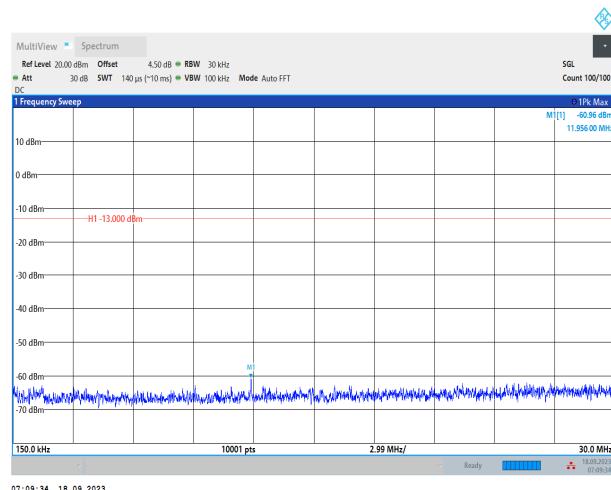
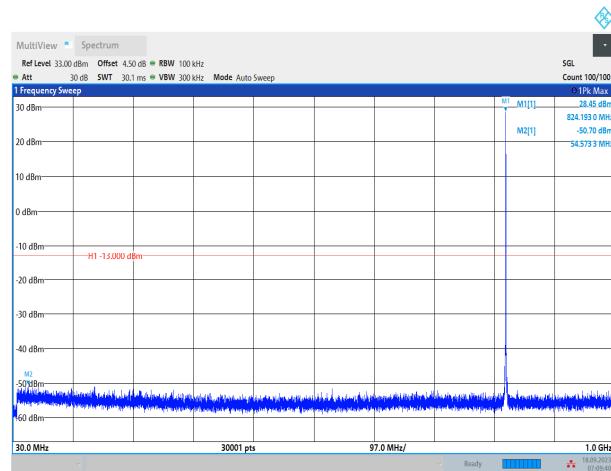
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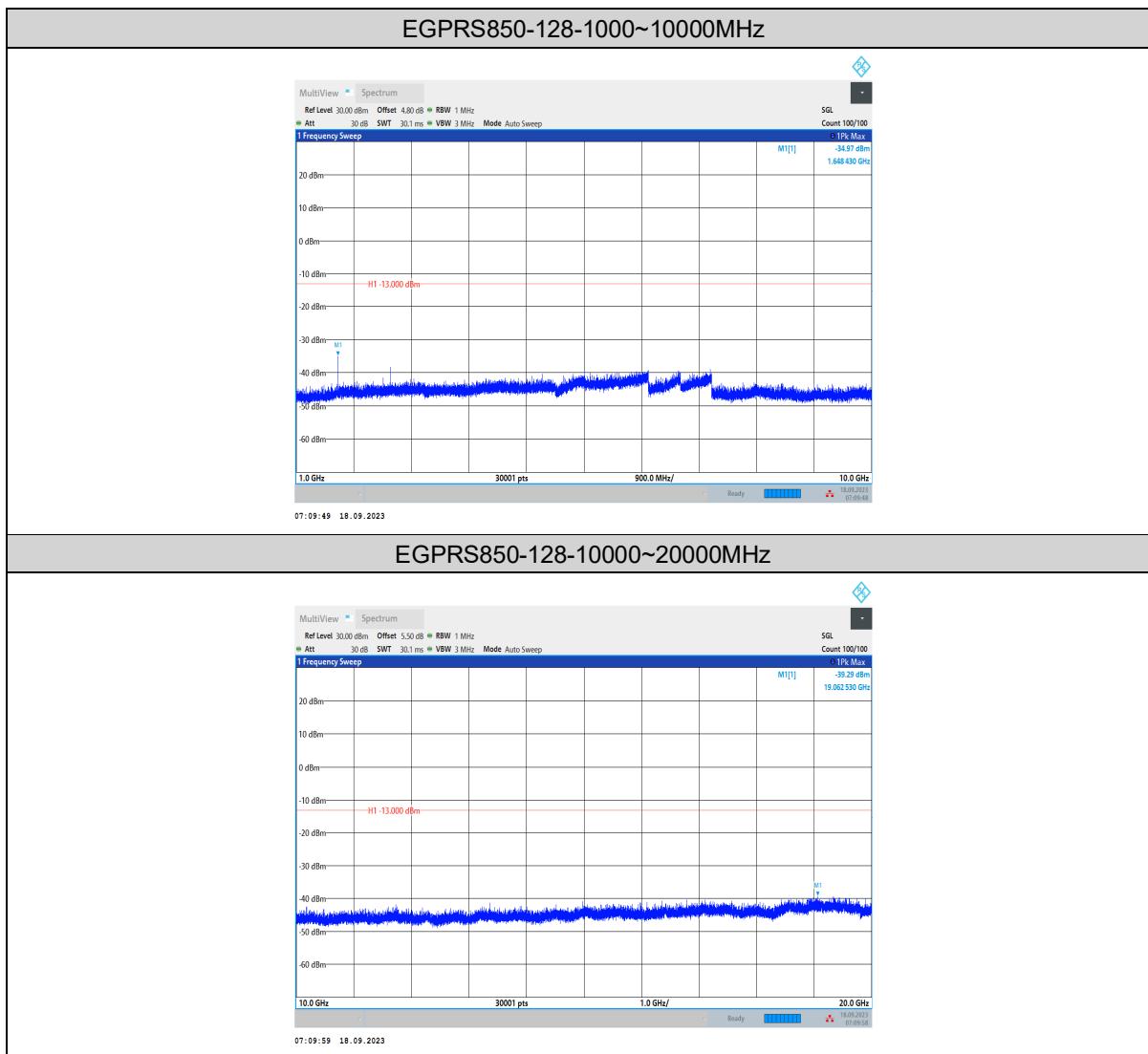
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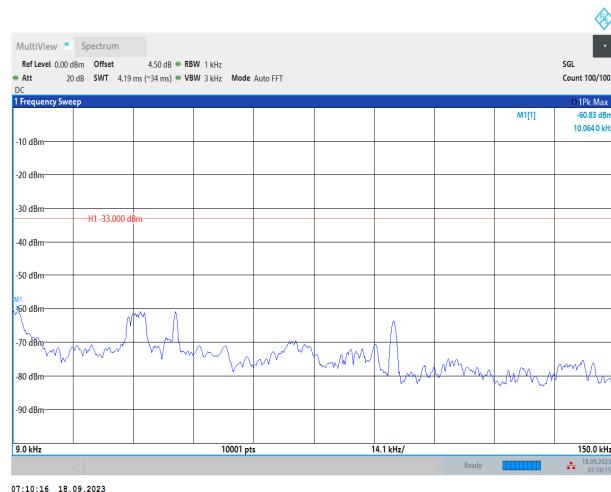
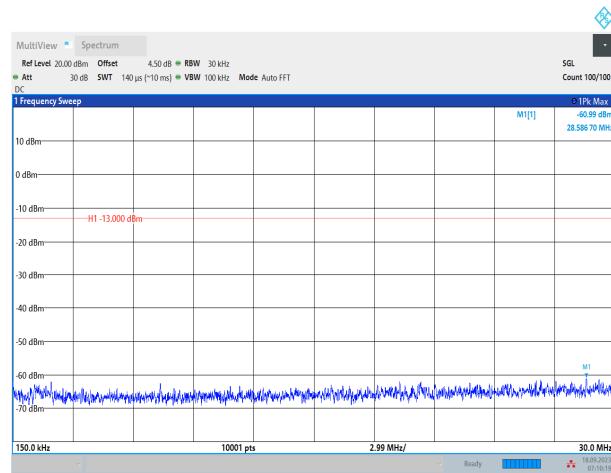
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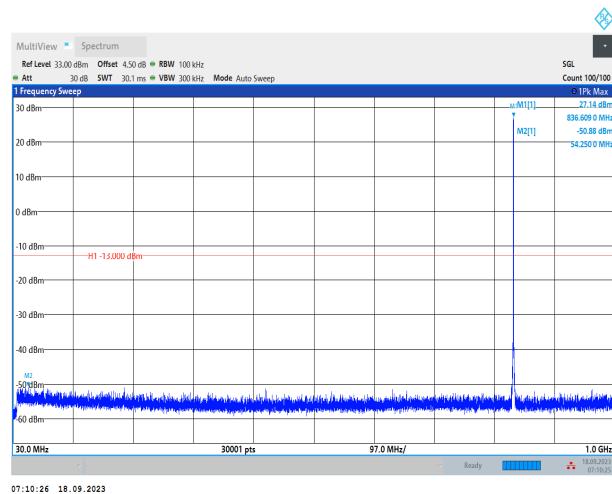
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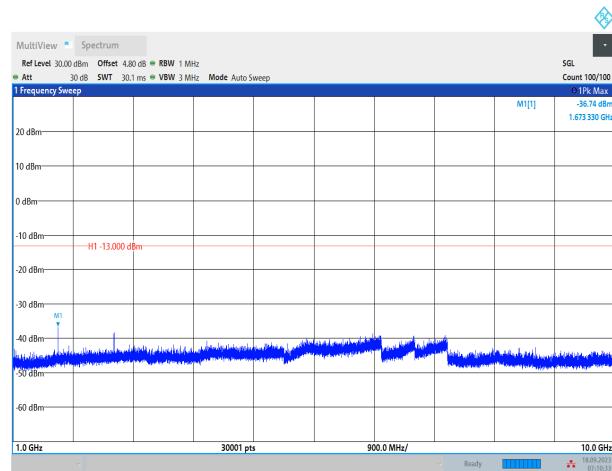
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**EGPRS850-190-30~1000MHz**

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**EGPRS850-190-1000~10000MHz**

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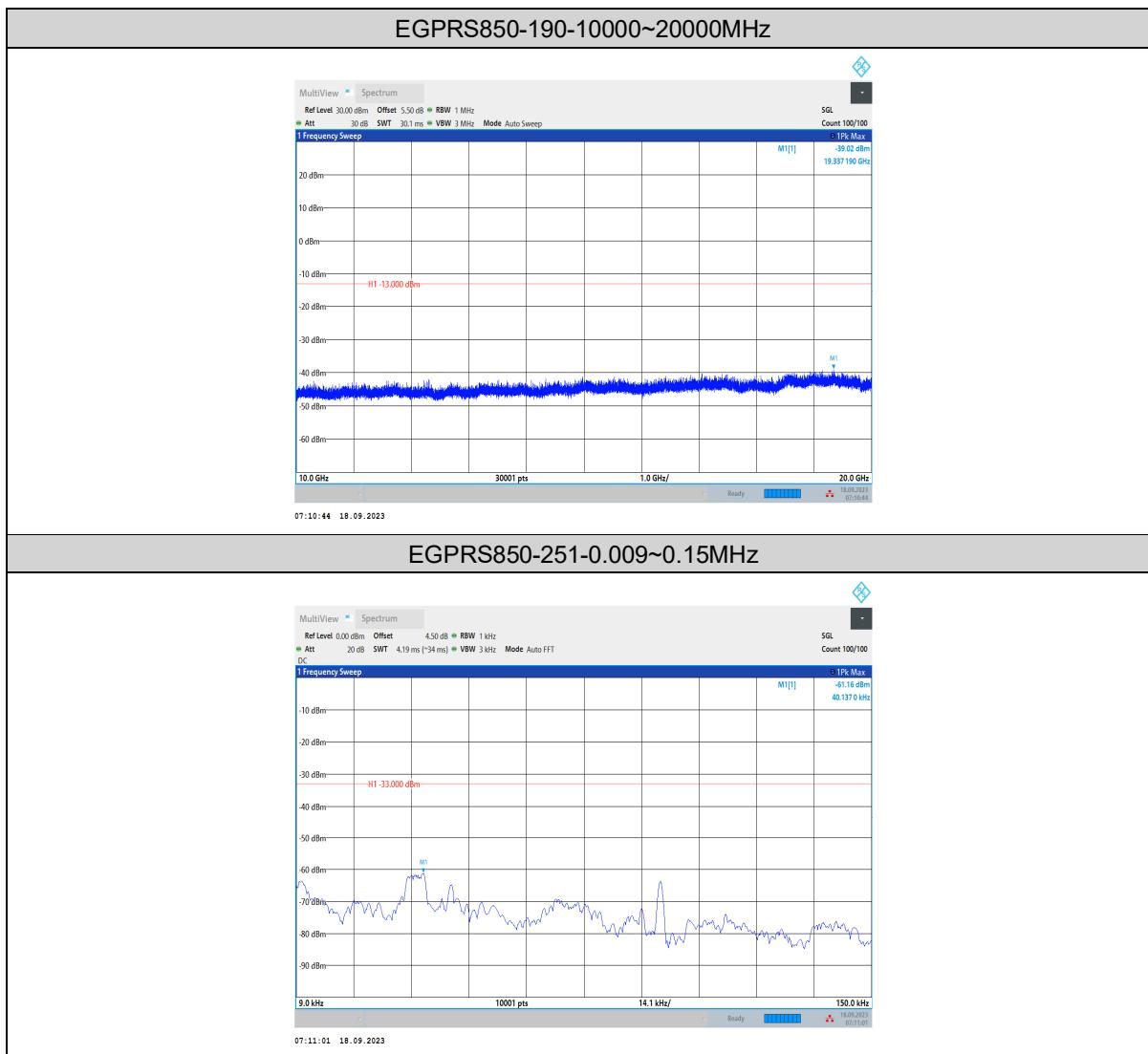
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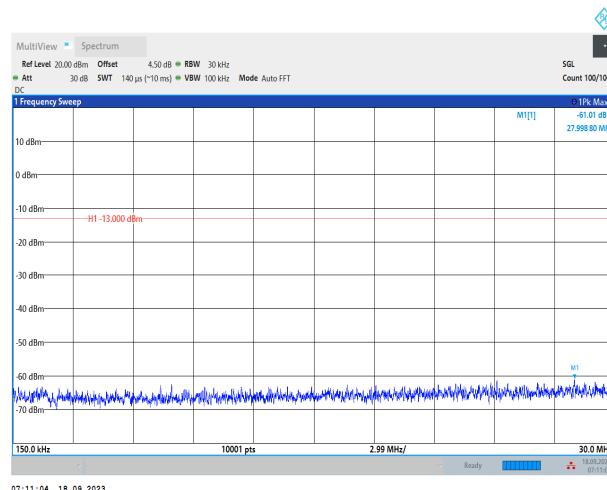


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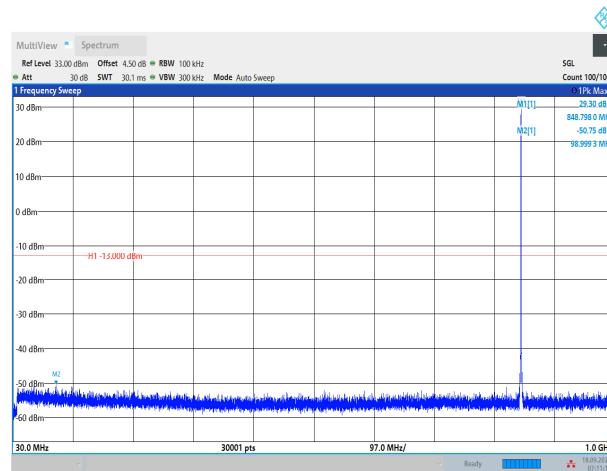
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## EGPRS850-251-0.15~30MHz



## EGPRS850-251-30~1000MHz



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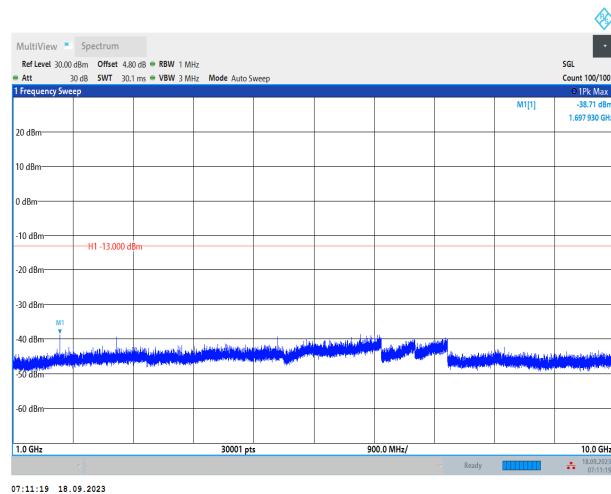
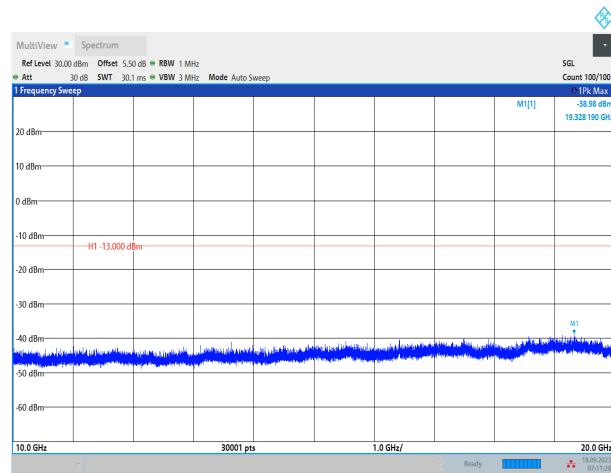
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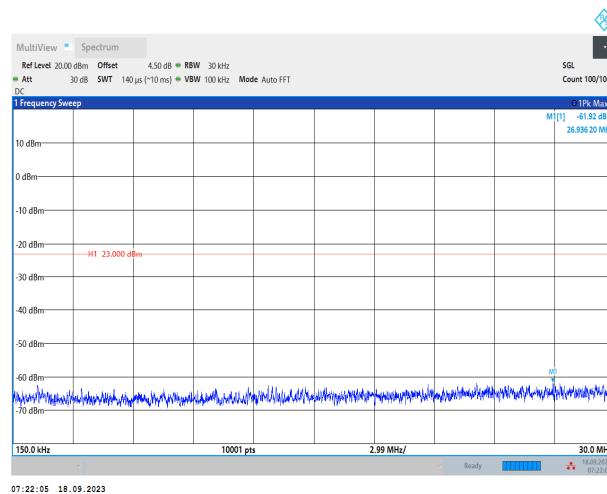
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## GSM1900-512-0.009~0.15MHz



## GSM1900-512-0.15~30MHz



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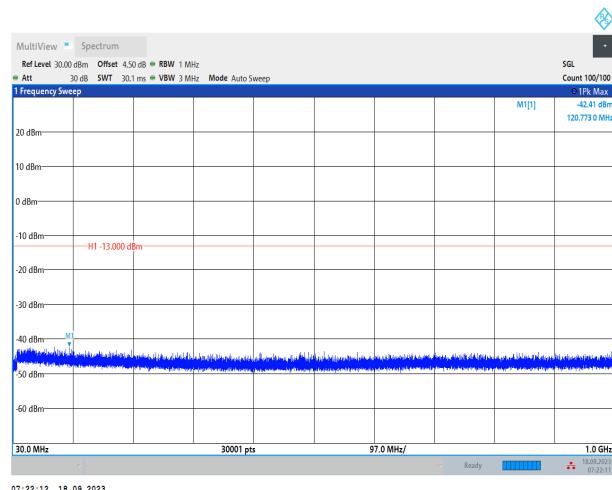
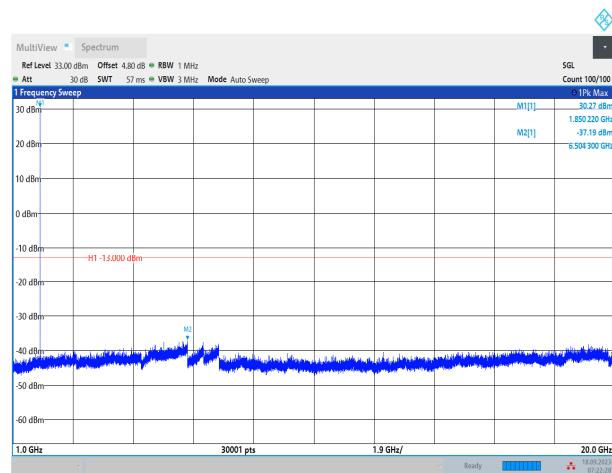
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**GSM1900-512-30~1000MHz****GSM1900-512-1000~2000MHz**

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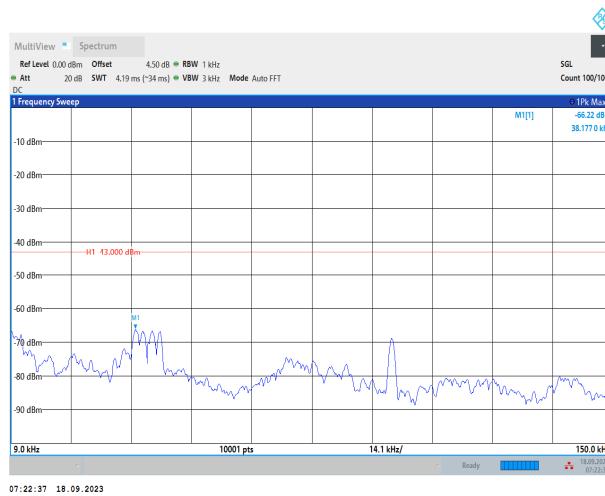


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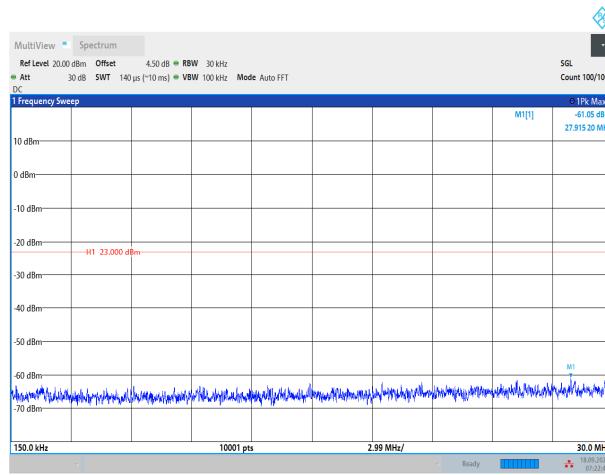
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## GSM1900-661-0.009~0.15MHz



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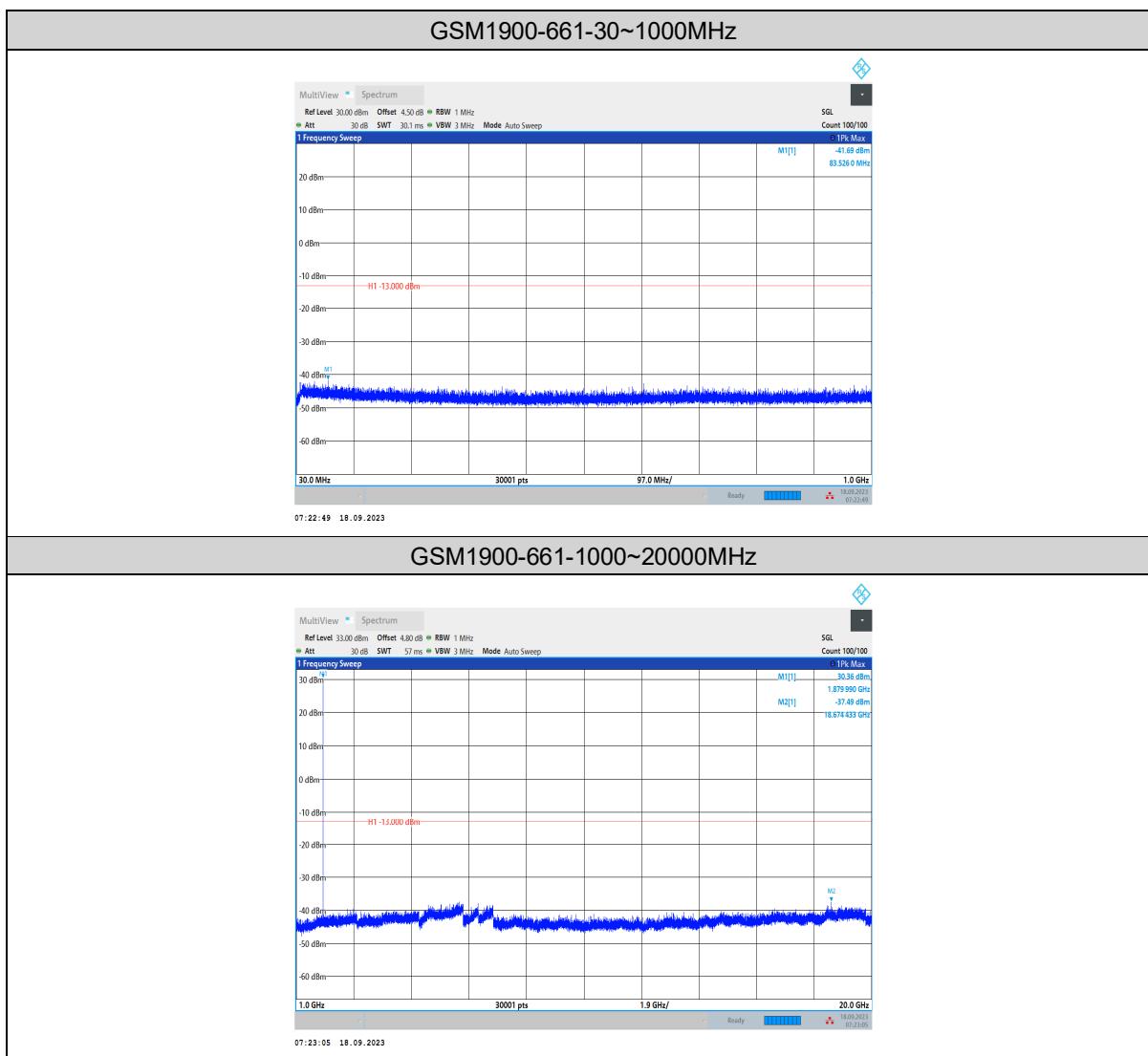
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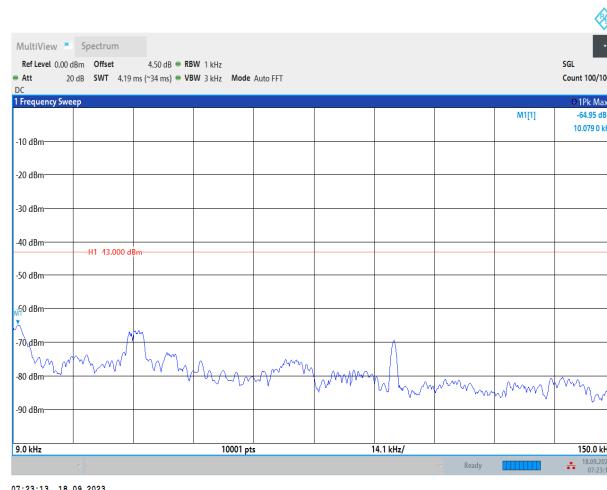
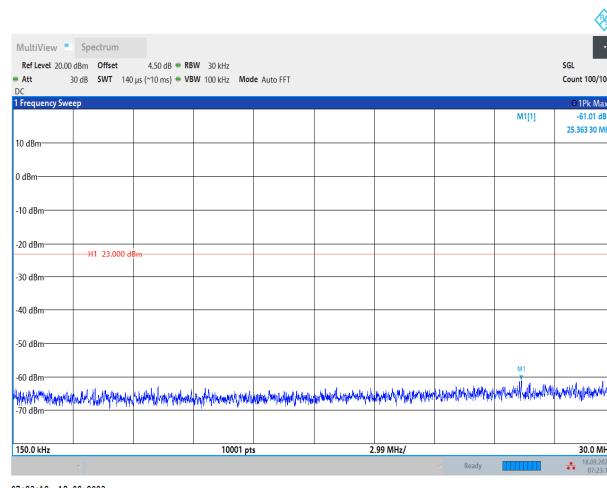
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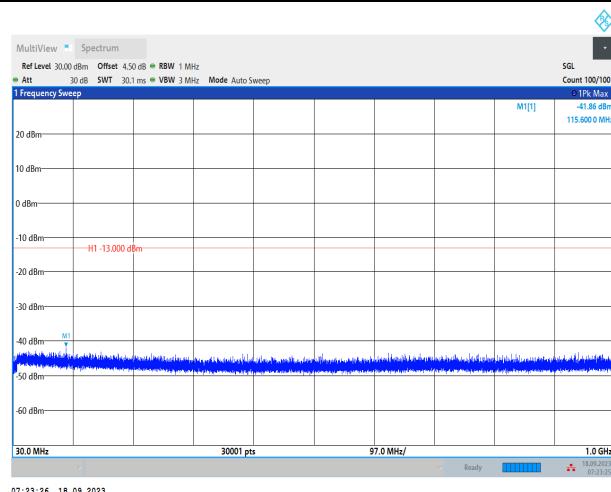
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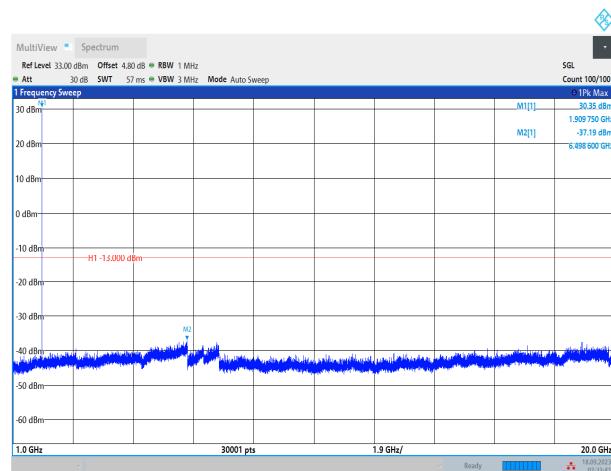
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**GSM1900-810-1000~2000MHz**

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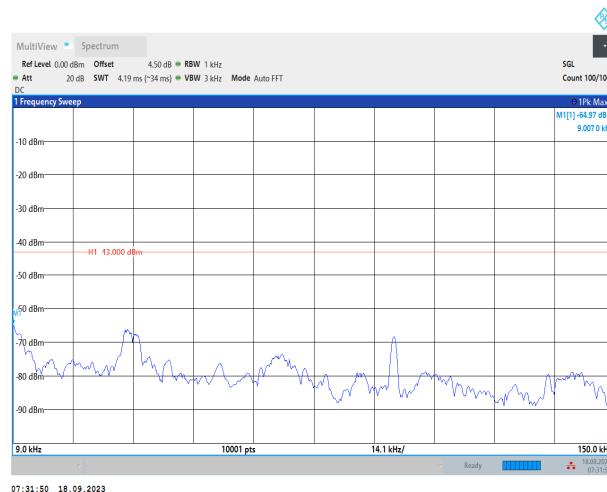
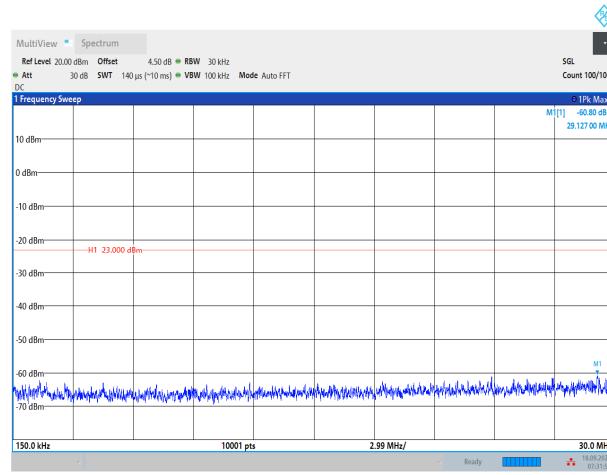
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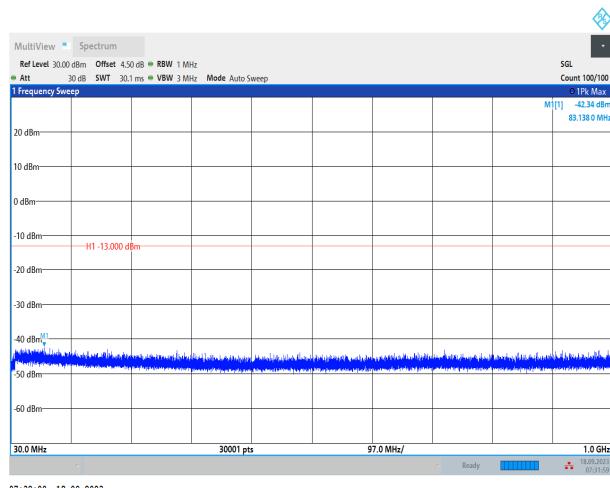
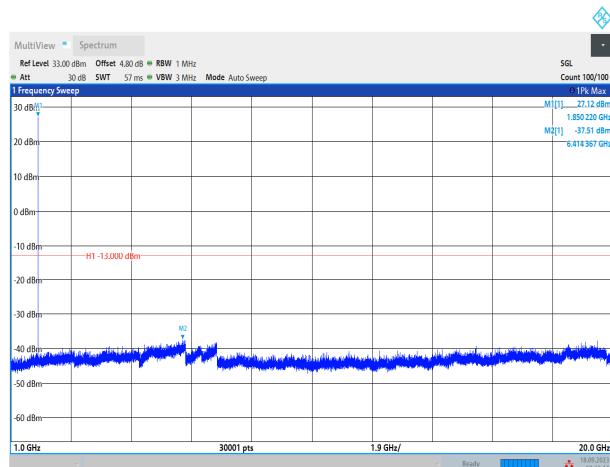
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**EGPRS1900-512-30~1000MHz****EGPRS1900-512-1000~20000MHz**

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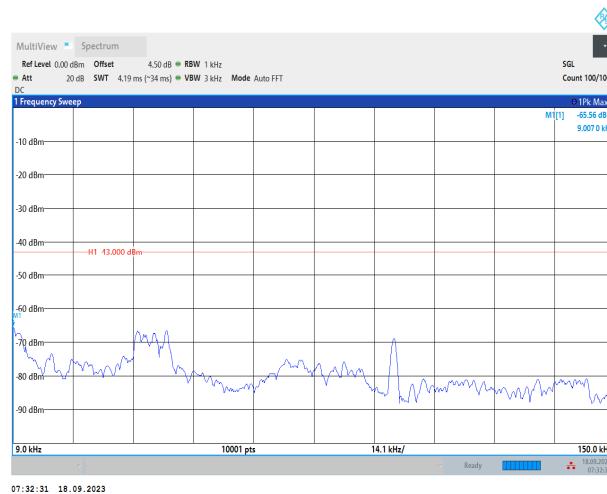


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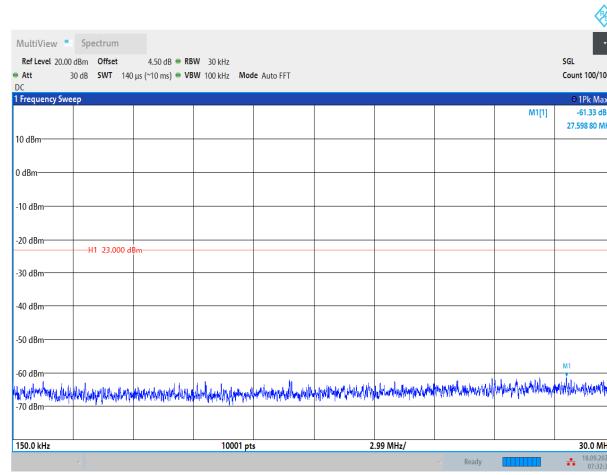
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## EGPRS1900-661-0.009~0.15MHz



## EGPRS1900-661-0.15~30MHz



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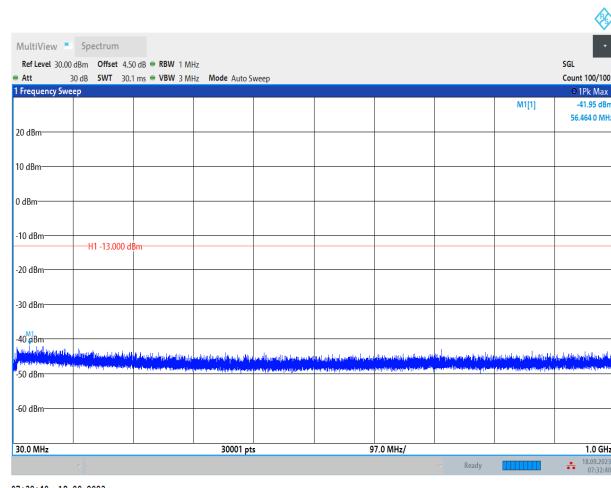
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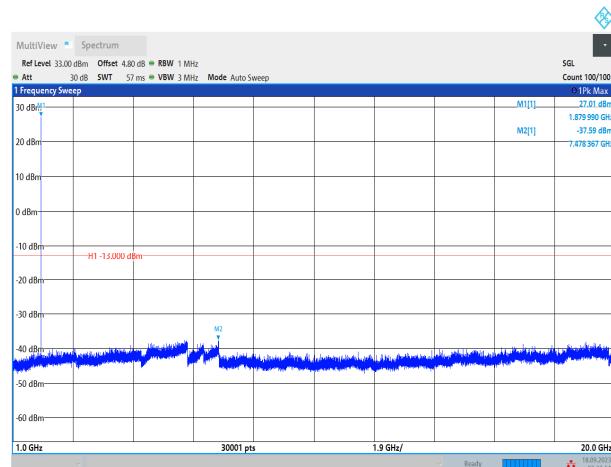
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## EGPRS1900-661-30~1000MHz



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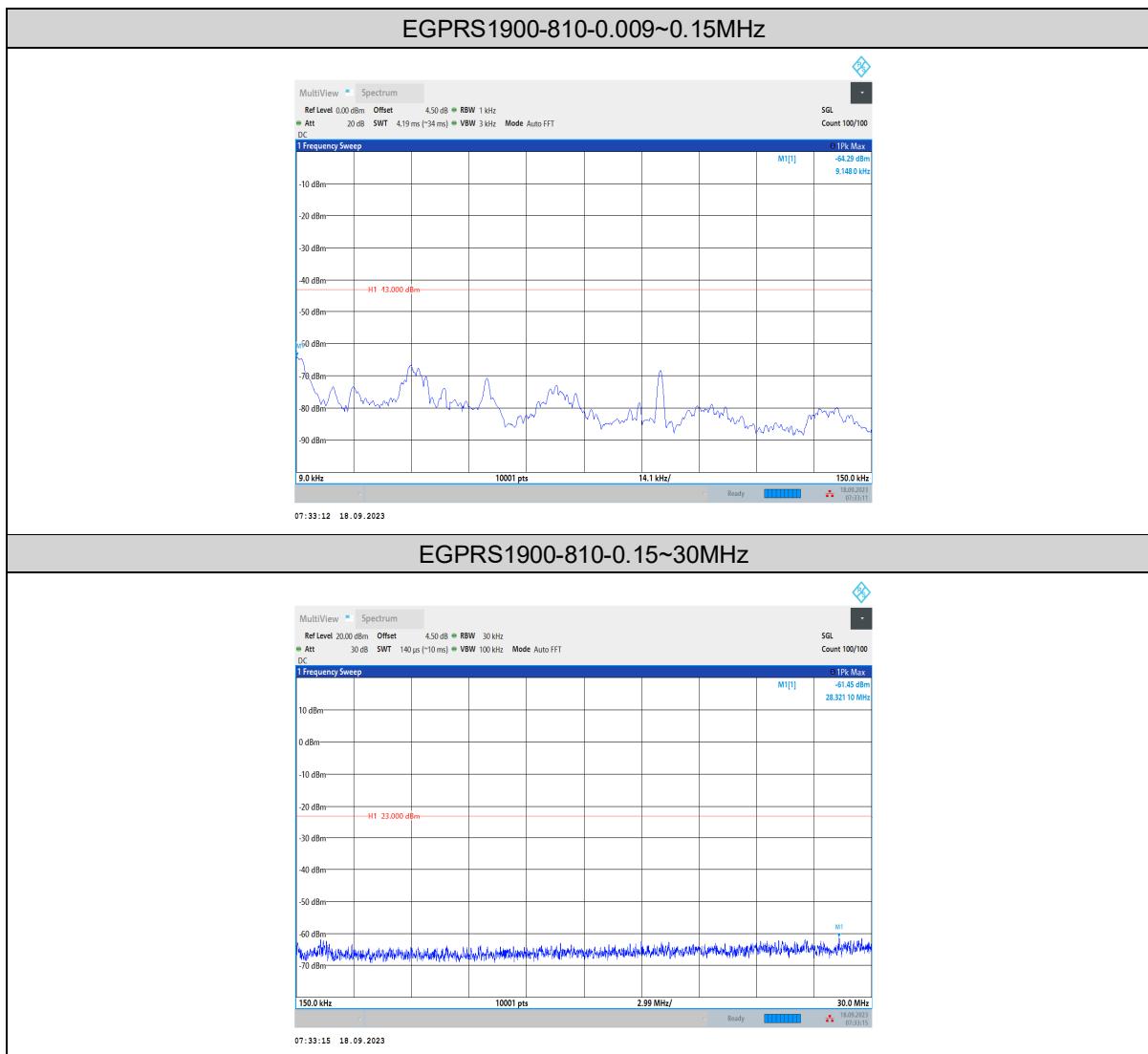
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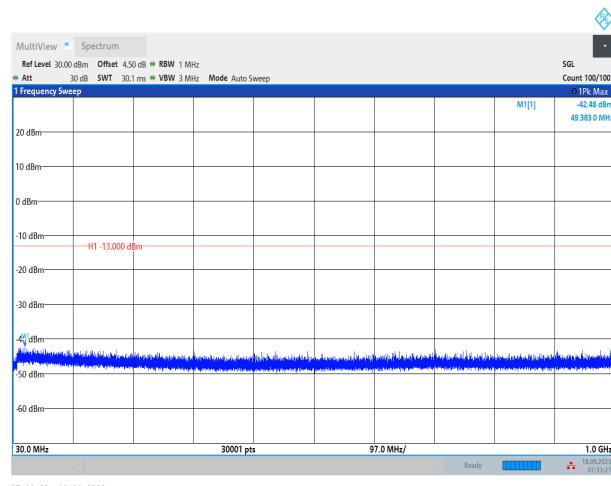
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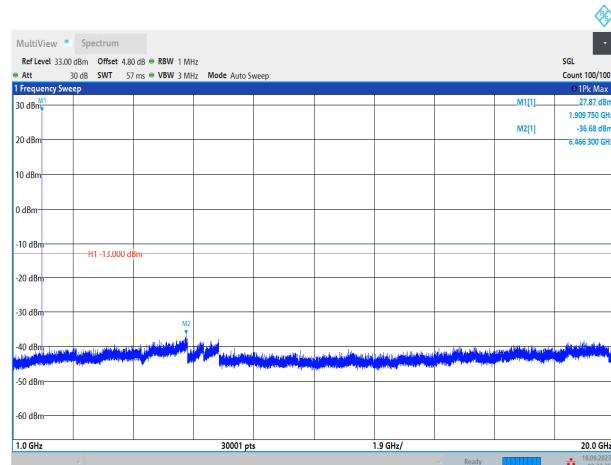
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## EGPRS1900-810-30~1000MHz



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## EGPRS1900-810-1000~20000MHz



07:33:36 18.09.2023

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**Field Strength of Spurious Radiation****Test Band = GSM 850\_ TM1****Test Channel = Low**

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4000	43.23	-48.22	25.27	-74.98	-13.00	61.98	Horizontal
2	2472.6000	42.45	-47.32	27.22	-72.90	-13.00	59.90	Horizontal
3	3296.8000	42.31	-46.67	28.48	-71.14	-13.00	58.14	Horizontal
4	4121.0000	40.73	-45.91	29.39	-71.05	-13.00	58.05	Horizontal
5	4945.2000	41.25	-45.69	31.28	-68.41	-13.00	55.41	Horizontal
6	5769.4000	39.75	-44.63	32.65	-67.49	-13.00	54.49	Horizontal

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4000	43.70	-48.22	25.27	-74.51	-13.00	61.51	Vertical
2	2472.6000	42.96	-47.32	27.22	-72.39	-13.00	59.39	Vertical
3	3296.8000	42.44	-46.67	28.48	-71.01	-13.00	58.01	Vertical
4	4121.0000	41.06	-45.91	29.39	-70.72	-13.00	57.72	Vertical
5	4945.2000	41.33	-45.69	31.28	-68.33	-13.00	55.33	Vertical
6	5769.4000	39.90	-44.63	32.65	-67.34	-13.00	54.34	Vertical

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**Test Band = GSM 850\_ TM1****Test Channel = Mid**

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	43.11	-48.19	25.31	-75.03	-13.00	62.03	Horizontal
2	2509.2000	42.51	-47.24	27.32	-72.67	-13.00	59.67	Horizontal
3	3345.6000	42.31	-46.62	28.51	-71.06	-13.00	58.06	Horizontal
4	4182.0000	40.22	-45.95	29.54	-71.45	-13.00	58.45	Horizontal
5	5018.4000	41.20	-45.73	31.45	-68.34	-13.00	55.34	Horizontal
6	5854.8000	39.86	-44.83	32.67	-67.56	-13.00	54.56	Horizontal

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	43.39	-48.19	25.31	-74.75	-13.00	61.75	Vertical
2	2509.2000	42.65	-47.24	27.32	-72.53	-13.00	59.53	Vertical
3	3345.6000	42.64	-46.62	28.51	-70.73	-13.00	57.73	Vertical
4	4182.0000	39.77	-45.95	29.54	-71.90	-13.00	58.90	Vertical
5	5018.4000	40.65	-45.73	31.45	-68.89	-13.00	55.89	Vertical
6	5854.8000	39.71	-44.83	32.67	-67.71	-13.00	54.71	Vertical

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**Test Band = GSM 850\_ TM1****Test Channel = High**

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6000	43.57	-48.16	25.35	-74.51	-13.00	61.51	Horizontal
2	2546.4000	42.39	-47.11	27.39	-72.59	-13.00	59.59	Horizontal
3	3395.2000	41.73	-46.55	28.54	-71.54	-13.00	58.54	Horizontal
4	4244.0000	41.13	-45.88	29.69	-70.33	-13.00	57.33	Horizontal
5	5092.8000	40.49	-45.41	31.62	-68.56	-13.00	55.56	Horizontal
6	5941.6000	40.66	-44.74	32.69	-66.66	-13.00	53.66	Horizontal

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6000	43.60	-48.16	25.35	-74.48	-13.00	61.48	Vertical
2	2546.4000	42.82	-47.11	27.39	-72.16	-13.00	59.16	Vertical
3	3395.2000	41.78	-46.55	28.54	-71.49	-13.00	58.49	Vertical
4	4244.0000	41.11	-45.88	29.69	-70.35	-13.00	57.35	Vertical
5	5092.8000	40.31	-45.41	31.62	-68.74	-13.00	55.74	Vertical
6	5941.6000	40.05	-44.74	32.69	-67.27	-13.00	54.27	Vertical

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**Test Band = GSM 1900\_ TM1****Test Channel = Low**

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4000	39.91	-45.50	28.80	-72.05	-13.00	59.05	Horizontal
2	5550.6000	39.43	-45.15	32.61	-68.37	-13.00	55.37	Horizontal
3	7400.8000	38.32	-43.41	36.32	-64.02	-13.00	51.02	Horizontal
4	9251.0000	33.35	-40.23	36.78	-65.37	-13.00	52.37	Horizontal
5	11101.2000	29.92	-37.96	38.71	-64.59	-13.00	51.59	Horizontal
6	14348.25	28.75	-35.50	41.04	-60.97	-13.00	47.97	Horizontal

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4000	39.79	-45.50	28.80	-72.17	-13.00	59.17	Vertical
2	5550.6000	39.59	-45.15	32.61	-68.21	-13.00	55.21	Vertical
3	7400.8000	38.23	-43.41	36.32	-64.11	-13.00	51.11	Vertical
4	9251.0000	33.97	-40.23	36.78	-64.75	-13.00	51.75	Vertical
5	11101.2000	29.66	-37.96	38.71	-64.85	-13.00	51.85	Vertical
6	13845	29.93	-35.97	40.62	-60.68	-13.00	47.68	Vertical

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**Test Band = GSM 1900\_ TM1****Test Channel = Mid**

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	40.51	-45.75	28.86	-71.64	-13.00	58.64	Horizontal
2	4458	41.85	-45.76	30.20	-68.97	-13.00	55.97	Horizontal
3	5640.0000	39.17	-44.98	32.63	-68.44	-13.00	55.44	Horizontal
4	7520.0000	37.96	-43.10	36.61	-63.79	-13.00	50.79	Horizontal
5	9400.0000	34.43	-39.83	37.06	-63.60	-13.00	50.60	Horizontal
6	11280.0000	30.48	-37.41	38.73	-63.47	-13.00	50.47	Horizontal

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	40.22	-45.75	28.86	-71.93	-13.00	58.93	Vertical
2	5412.75	40.76	-45.29	32.39	-67.40	-13.00	54.40	Vertical
3	5640.0000	38.78	-44.98	32.63	-68.83	-13.00	55.83	Vertical
4	7520.0000	37.35	-43.10	36.61	-64.40	-13.00	51.40	Vertical
5	9400.0000	34.09	-39.83	37.06	-63.94	-13.00	50.94	Vertical
6	11280.0000	30.38	-37.41	38.73	-63.57	-13.00	50.57	Vertical

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**Test Band = GSM 1900\_ TM1****Test Channel = High**

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6000	41.27	-45.99	28.92	-71.06	-13.00	58.06	Horizontal
2	4596.75	41.51	-45.67	30.51	-68.91	-13.00	55.91	Horizontal
3	5985.75	40.32	-44.85	32.70	-67.09	-13.00	54.09	Horizontal
4	7639.2000	37.94	-43.01	36.66	-63.67	-13.00	50.67	Horizontal
5	9549.0000	33.37	-39.96	37.34	-64.50	-13.00	51.50	Horizontal
6	11458.8000	29.87	-37.33	38.75	-63.98	-13.00	50.98	Horizontal

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6000	40.57	-45.99	28.92	-71.76	-13.00	58.76	Vertical
2	5439.75	41.14	-45.28	32.46	-66.94	-13.00	53.94	Vertical
3	6170.25	40.25	-44.67	33.24	-66.43	-13.00	53.43	Vertical
4	7639.2000	37.53	-43.01	36.66	-64.08	-13.00	51.08	Vertical
5	9549.0000	33.12	-39.96	37.34	-64.75	-13.00	51.75	Vertical
6	11458.8000	30.42	-37.33	38.75	-63.43	-13.00	50.43	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	1.81	0.002164	±2.5	PASS
GSM850	190	VN	NT	-0.97	-0.001159	±2.5	PASS
GSM850	190	VH	NT	0.97	0.001159	±2.5	PASS
EGPRS850	190	VL	NT	-7.01	-0.008379	±2.5	PASS
EGPRS850	190	VN	NT	-8.62	-0.010304	±2.5	PASS
EGPRS850	190	VH	NT	-4.81	-0.005749	±2.5	PASS

Voltage						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	2.74	0.001457	PASS
GSM1900	661	VN	NT	-3.33	-0.001771	PASS
GSM1900	661	VH	NT	3.94	0.002096	PASS
EGPRS1900	661	VL	NT	-9.17	-0.004878	PASS
EGPRS1900	661	VN	NT	-8.46	-0.004500	PASS
EGPRS1900	661	VH	NT	-4.91	-0.002612	PASS

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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	-1.94	-0.002319	±2.5	PASS
GSM850	190	NV	-20	1.19	0.001422	±2.5	PASS
GSM850	190	NV	-10	-4.23	-0.005056	±2.5	PASS
GSM850	190	NV	0	-7.30	-0.008726	±2.5	PASS
GSM850	190	NV	10	-4.04	-0.004829	±2.5	PASS
GSM850	190	NV	20	-5.84	-0.006981	±2.5	PASS
GSM850	190	NV	30	-3.81	-0.004554	±2.5	PASS
GSM850	190	NV	40	-15.30	-0.018288	±2.5	PASS
GSM850	190	NV	50	4.36	0.005212	±2.5	PASS
EGPRS850	190	NV	-30	-5.20	-0.006216	±2.5	PASS
EGPRS850	190	NV	-20	-9.56	-0.011427	±2.5	PASS
EGPRS850	190	NV	-10	-7.62	-0.009108	±2.5	PASS
EGPRS850	190	NV	0	-5.88	-0.007028	±2.5	PASS
EGPRS850	190	NV	10	-13.92	-0.016639	±2.5	PASS
EGPRS850	190	NV	20	-4.33	-0.005176	±2.5	PASS
EGPRS850	190	NV	30	-4.55	-0.005439	±2.5	PASS
EGPRS850	190	NV	40	-5.42	-0.006479	±2.5	PASS
EGPRS850	190	NV	50	-7.68	-0.009180	±2.5	PASS

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Temperature						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	2.42	0.001287	PASS
GSM1900	661	NV	-20	4.33	0.002303	PASS
GSM1900	661	NV	-10	3.87	0.002059	PASS
GSM1900	661	NV	0	-10.65	-0.005665	PASS
GSM1900	661	NV	10	11.36	0.006043	PASS
GSM1900	661	NV	20	12.37	0.006580	PASS
GSM1900	661	NV	30	7.07	0.003761	PASS
GSM1900	661	NV	40	2.07	0.001101	PASS
GSM1900	661	NV	50	7.01	0.003729	PASS
EGPRS1900	661	NV	-30	-9.91	-0.005271	PASS
EGPRS1900	661	NV	-20	-5.10	-0.002713	PASS
EGPRS1900	661	NV	-10	-8.43	-0.004484	PASS
EGPRS1900	661	NV	0	-12.24	-0.006511	PASS
EGPRS1900	661	NV	10	-10.11	-0.005378	PASS
EGPRS1900	661	NV	20	-8.14	-0.004330	PASS
EGPRS1900	661	NV	30	-10.53	-0.005601	PASS
EGPRS1900	661	NV	40	-6.94	-0.003691	PASS
EGPRS1900	661	NV	50	-14.21	-0.007559	PASS

---End of Attachment---

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