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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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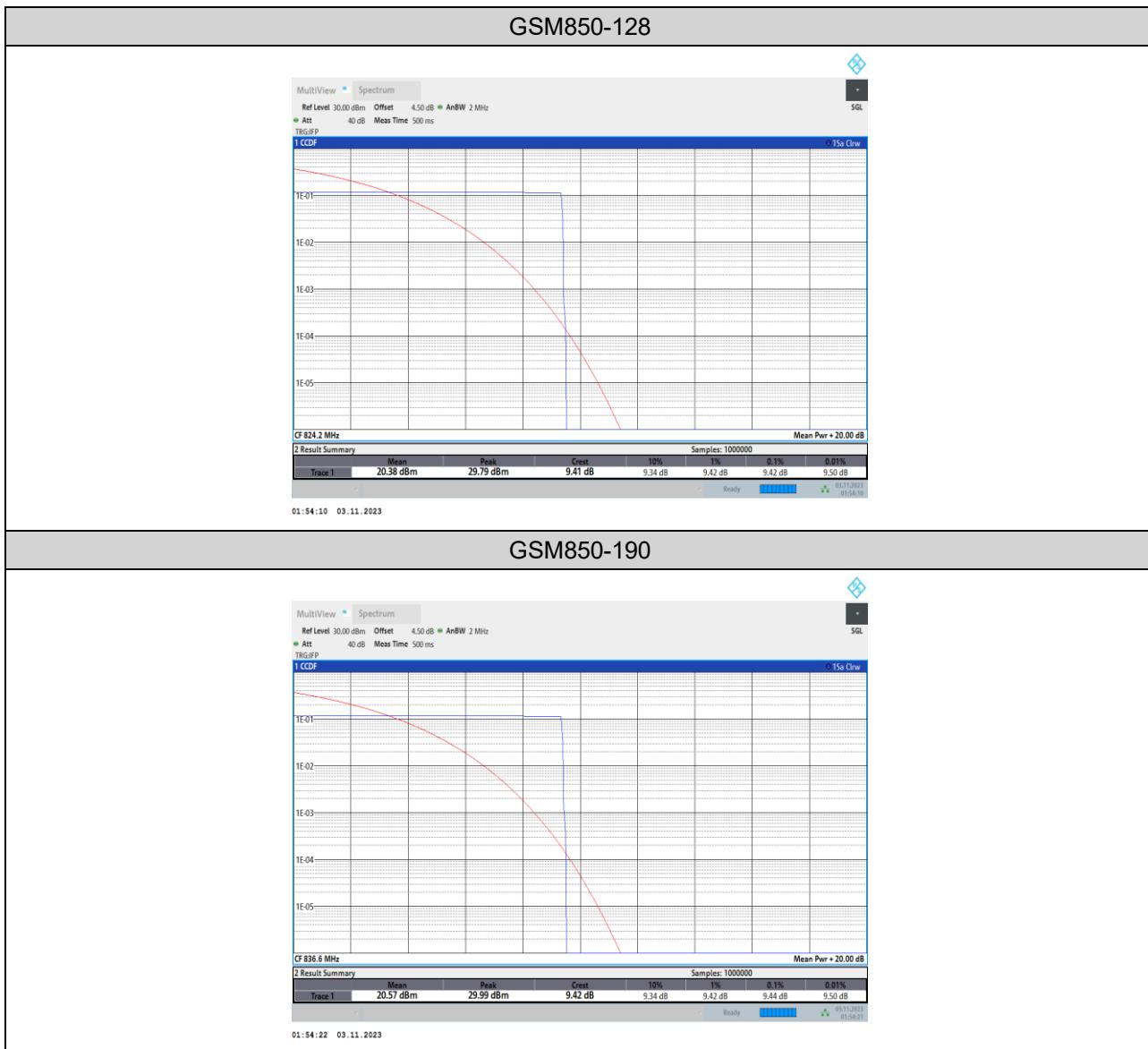
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## Test Graphs



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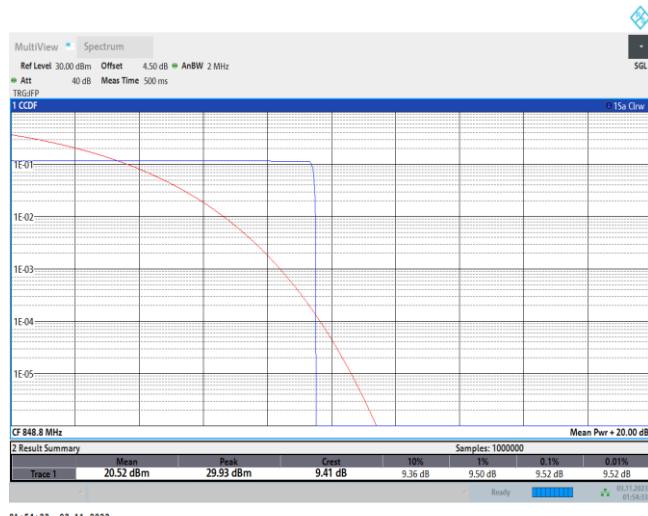
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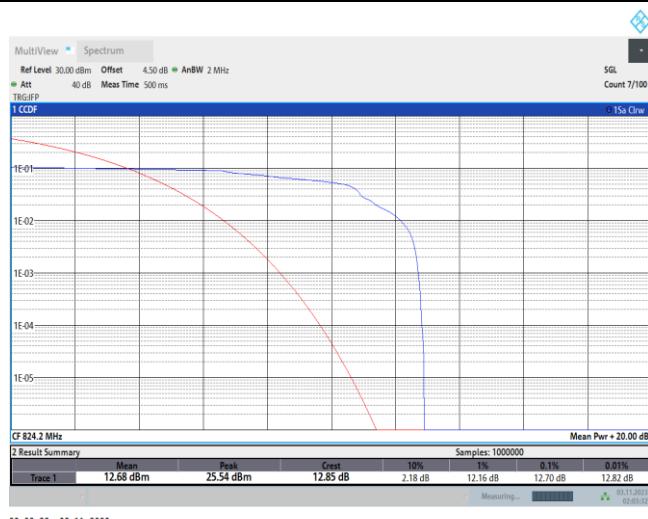
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## GSM850-251



## EGPRS850-128



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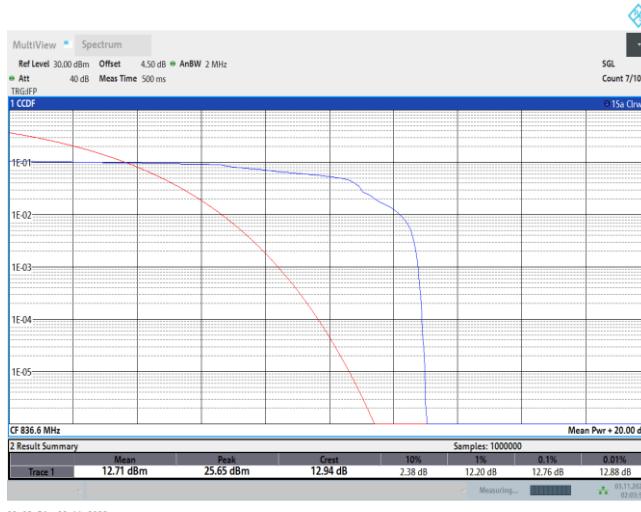
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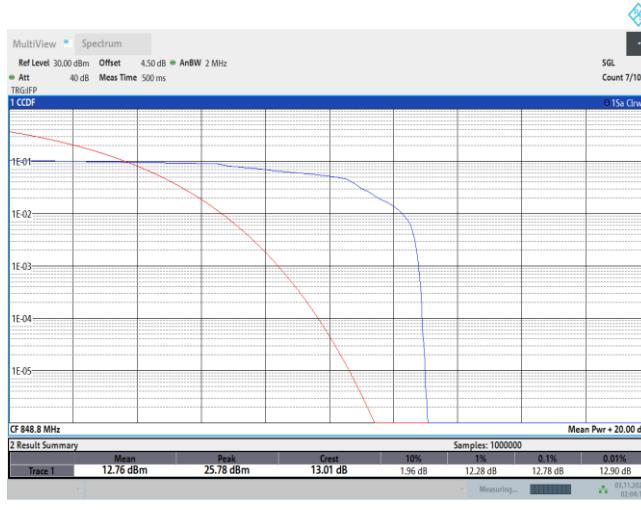
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## EGPRS850-190



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## EGPRS850-251



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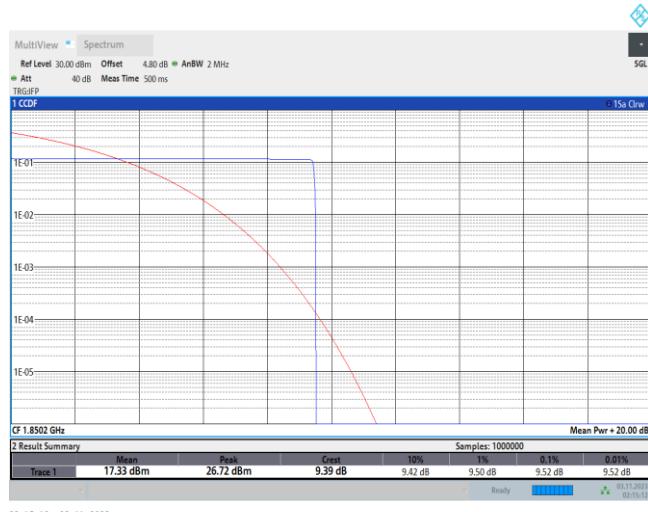
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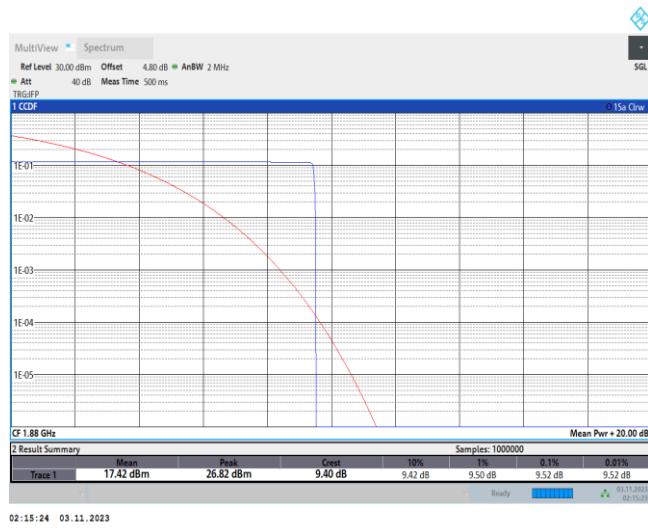
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## GSM1900-512



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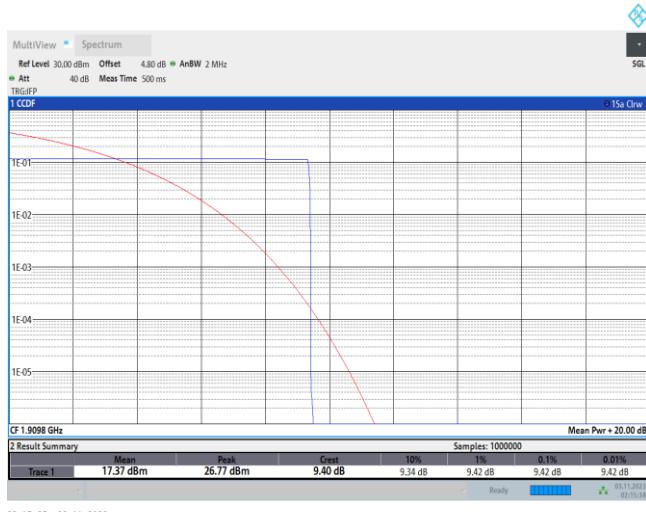
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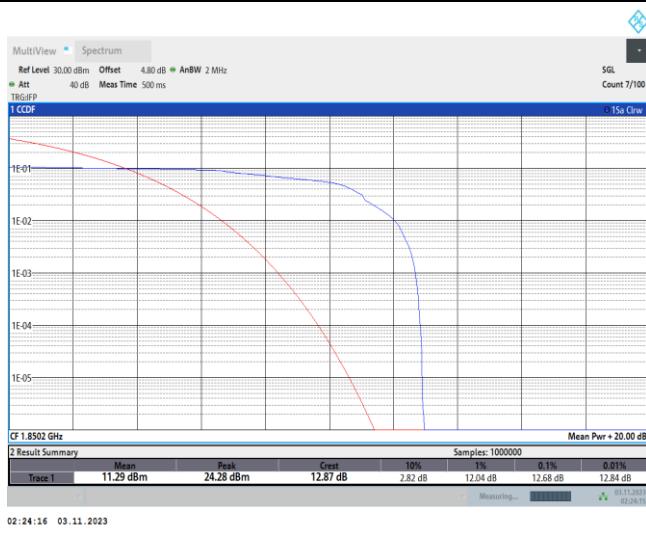
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## GSM1900-810



## EGPRS1900-512



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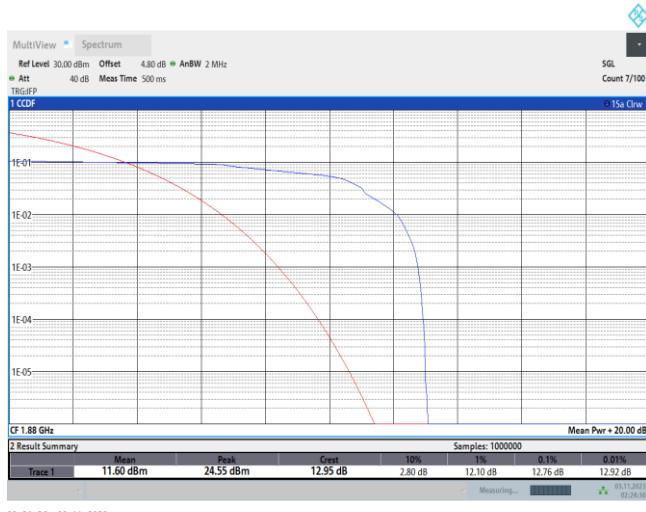
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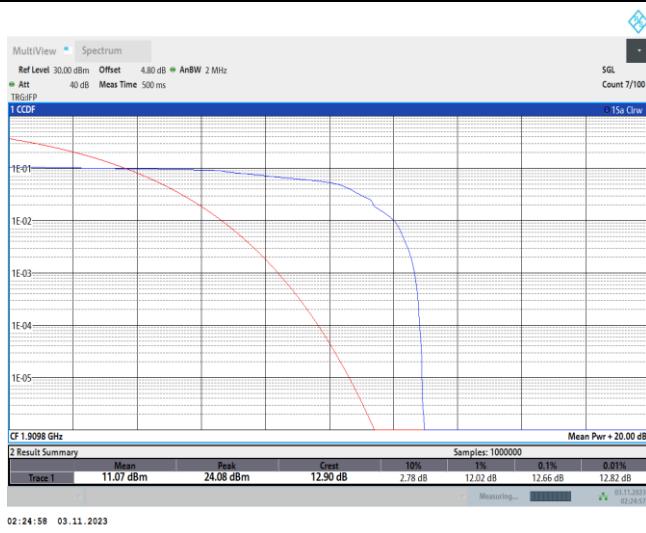
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## EGPRS1900-661



## EGPRS1900-810



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.247	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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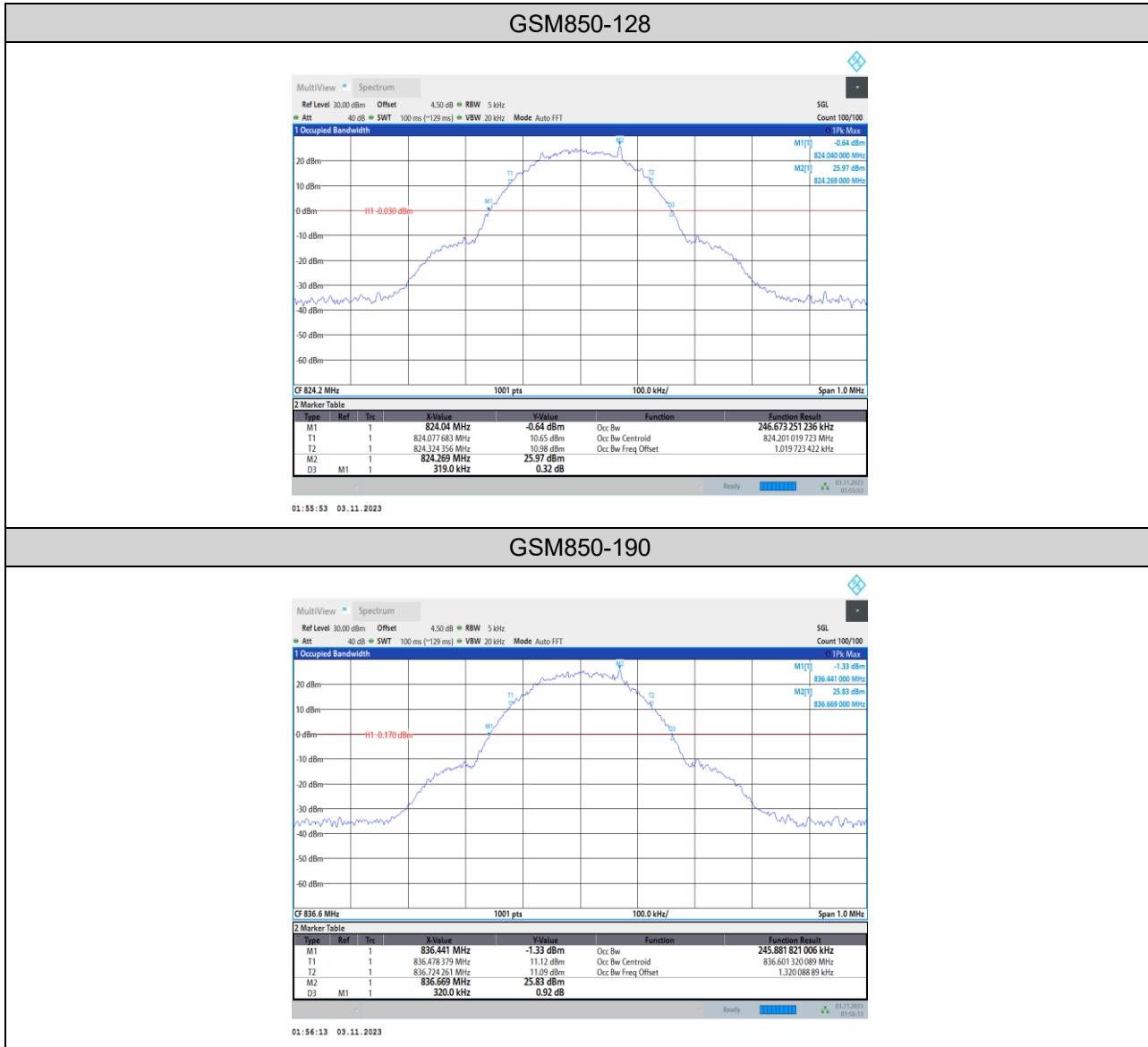
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## Test Graphs



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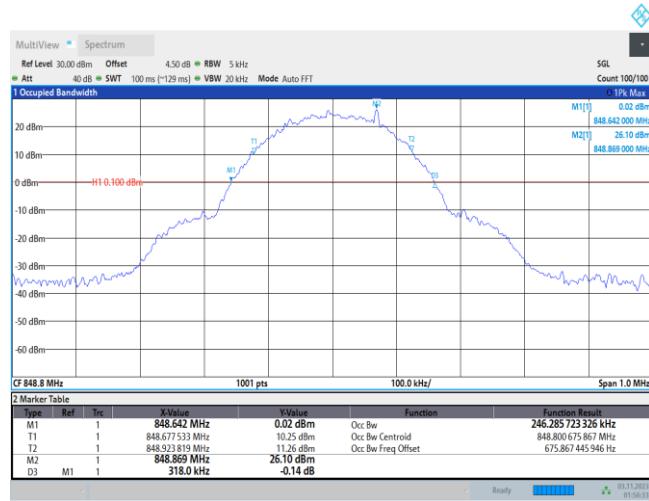
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## GSM850-251



## EGPRS850-128



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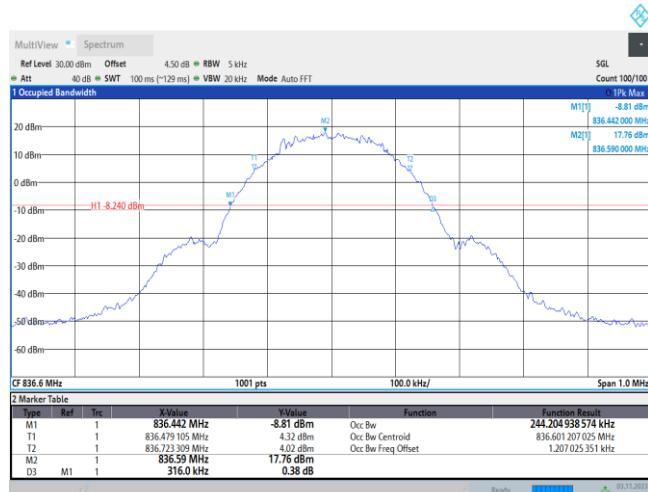
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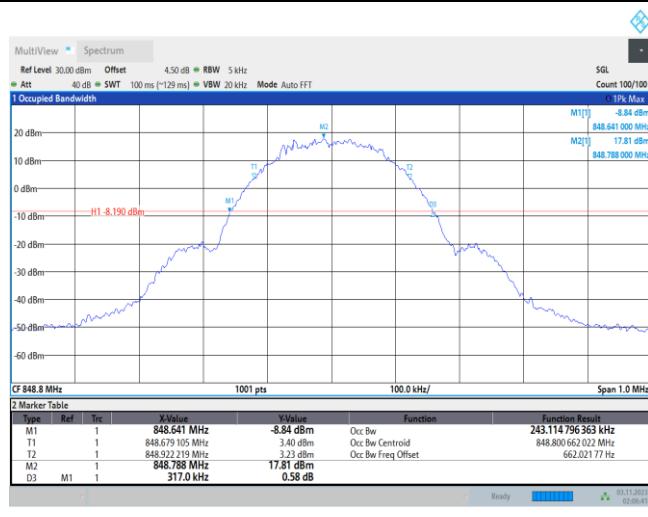
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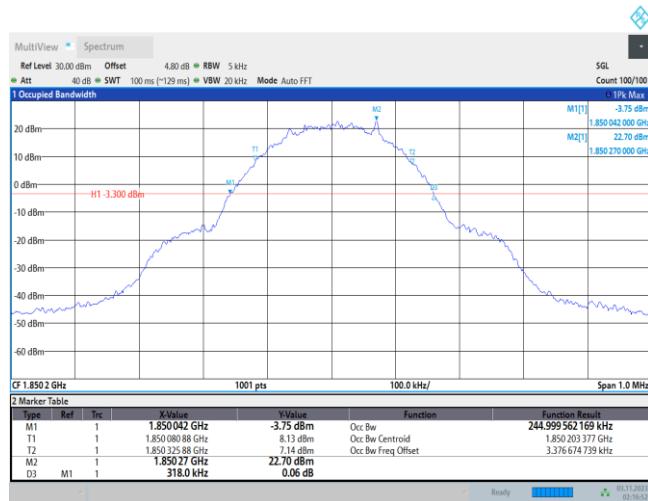
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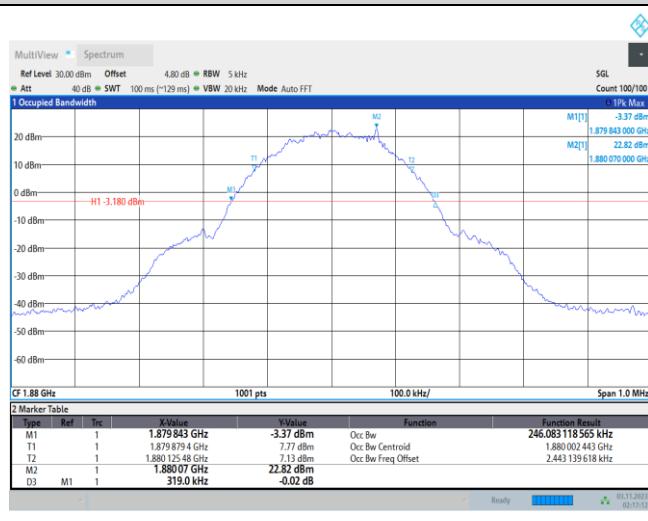
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GSM1900-512



GSM1900-661



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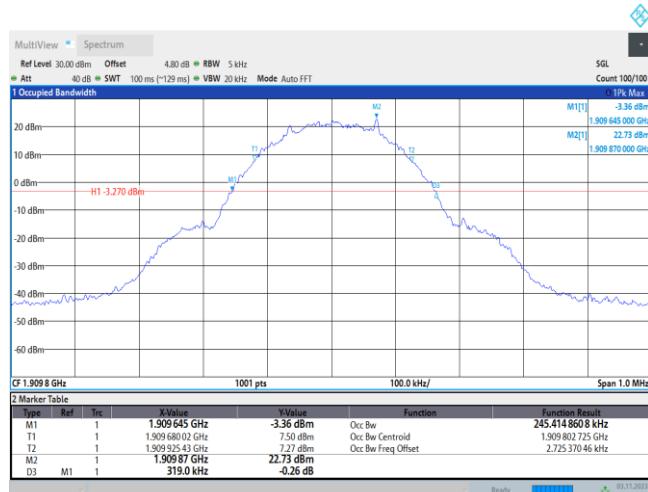
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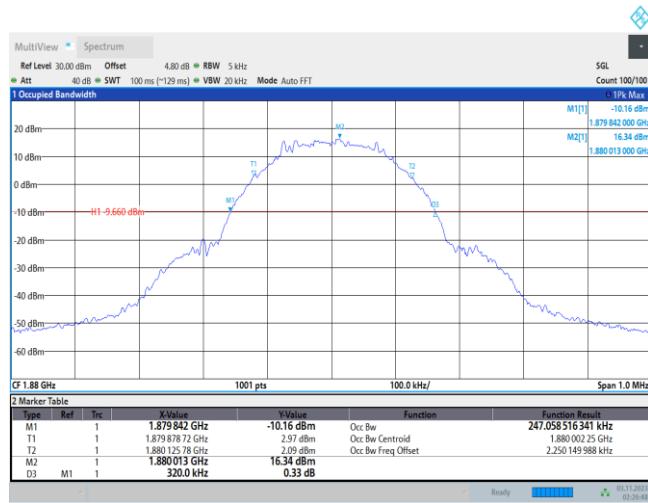
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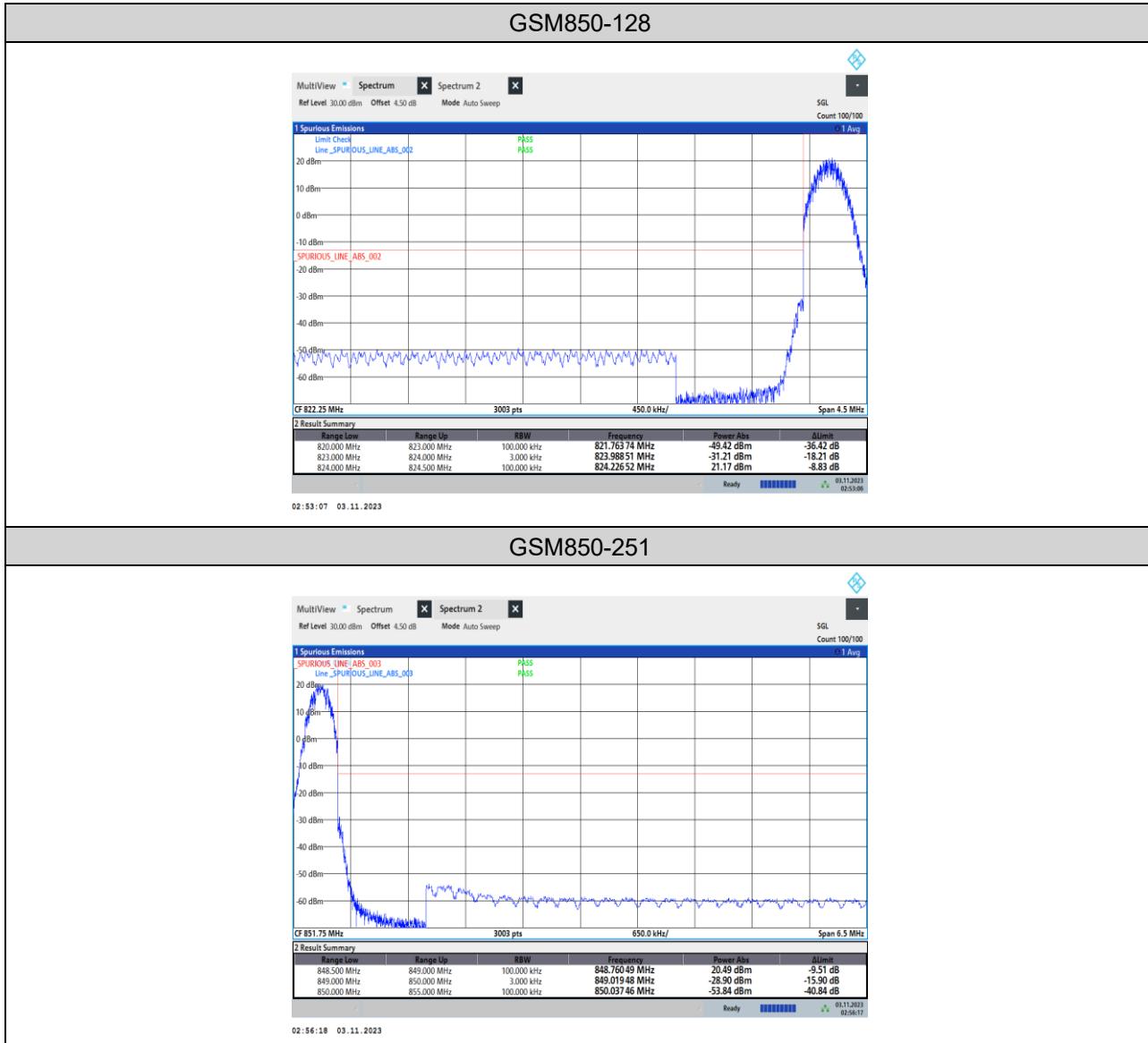
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## Band Edge

### Test Graphs



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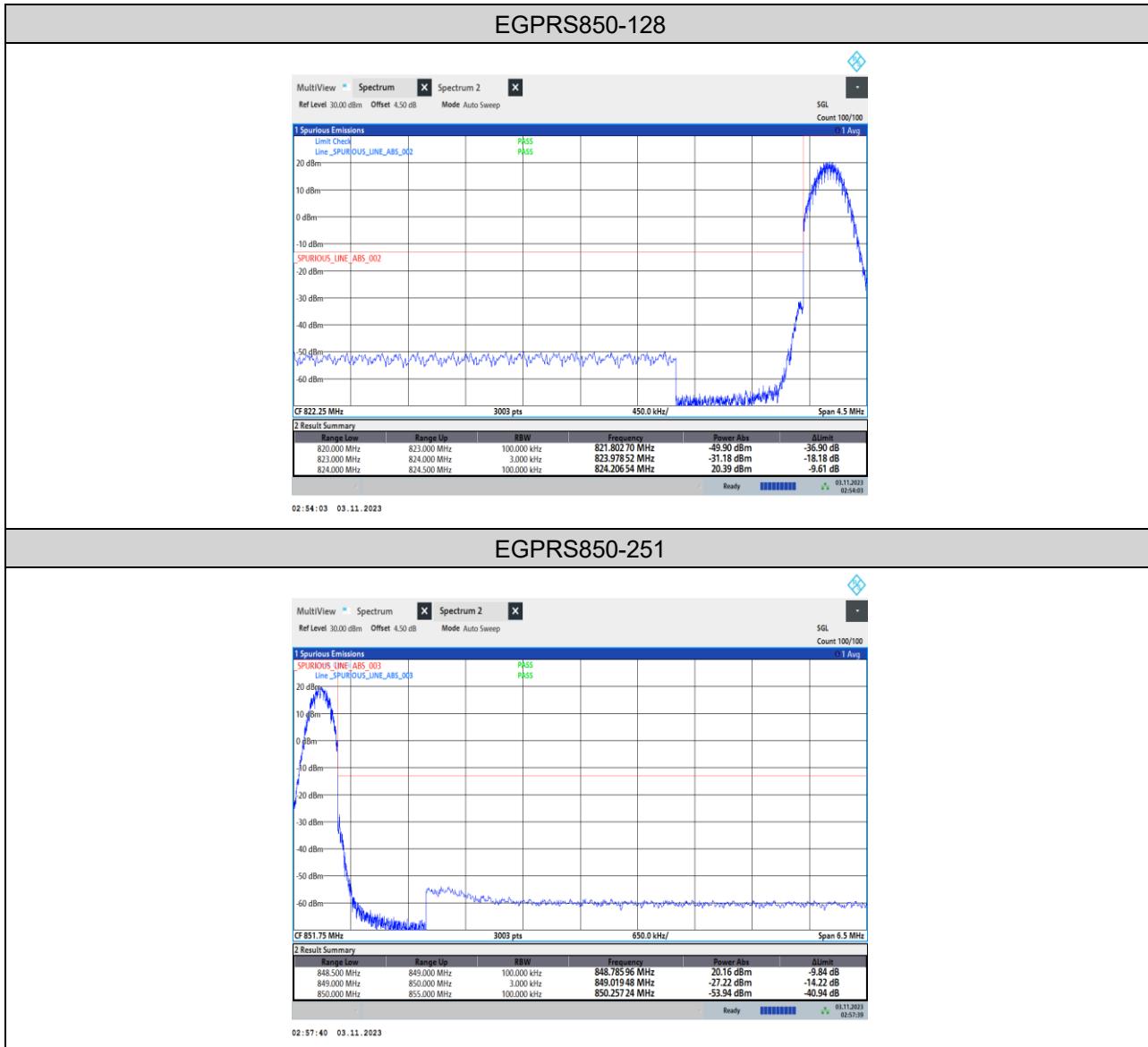
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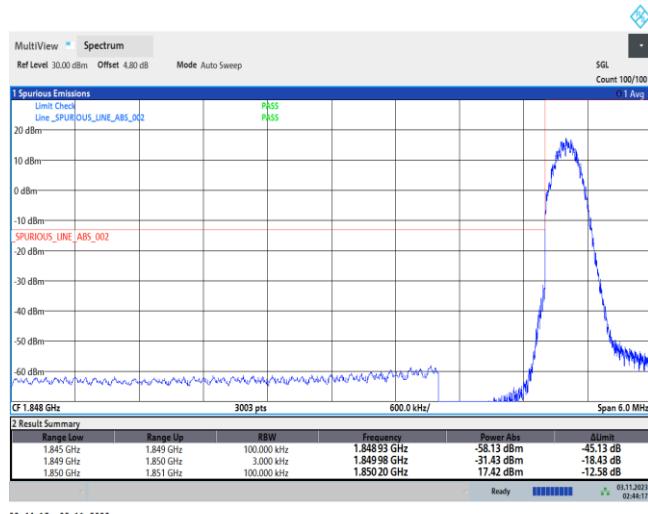
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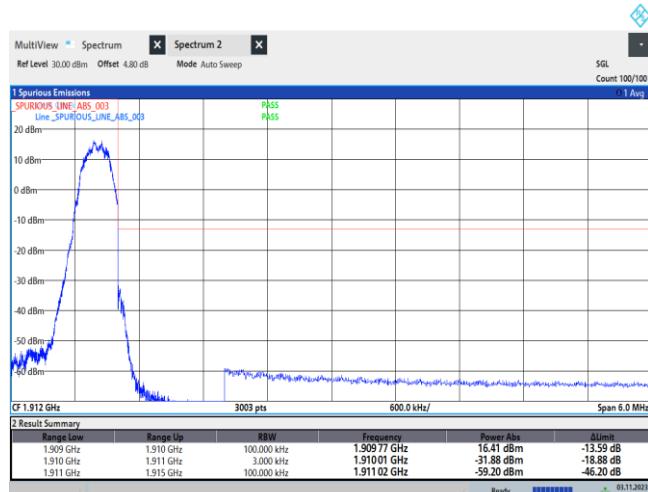
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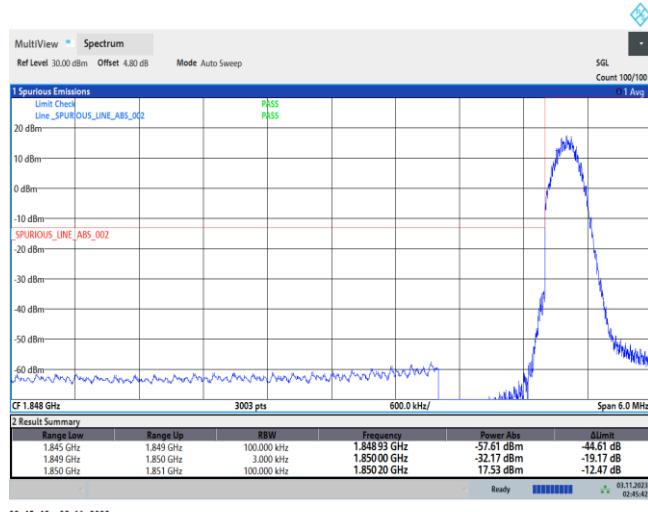
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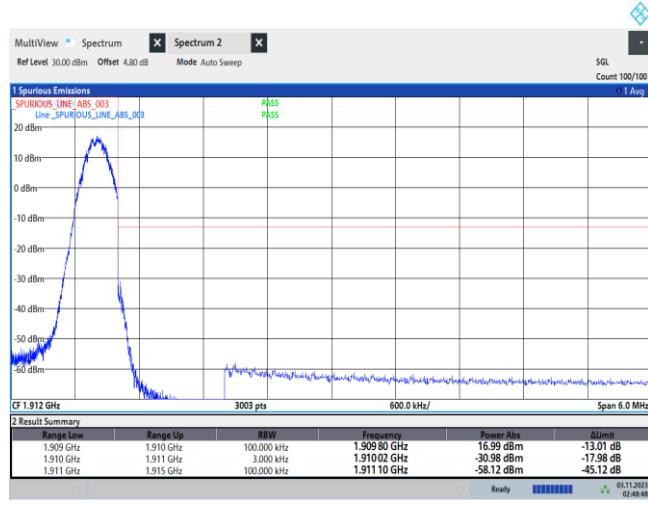
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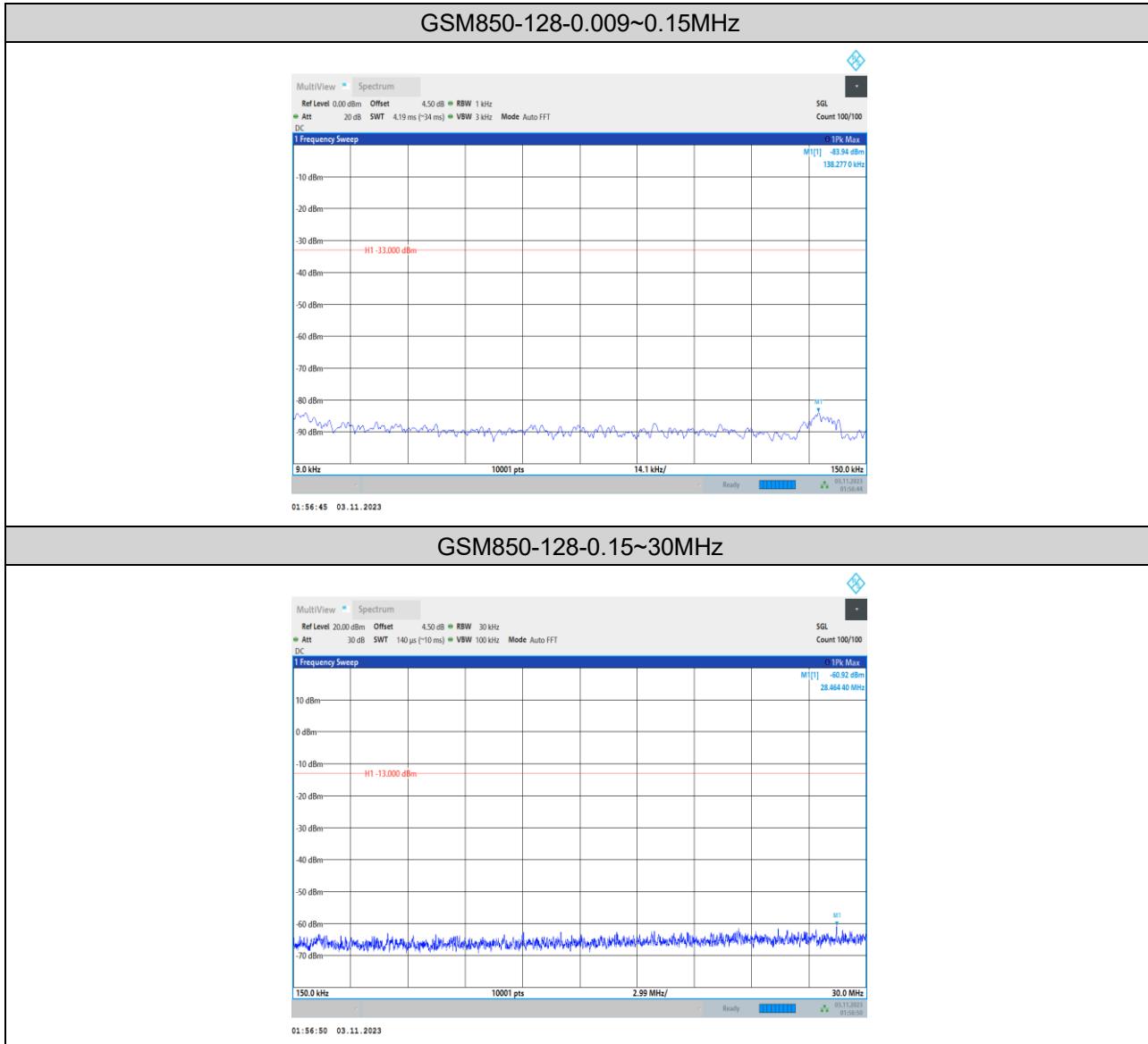
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## Conducted Spurious Emission

### Test Graphs



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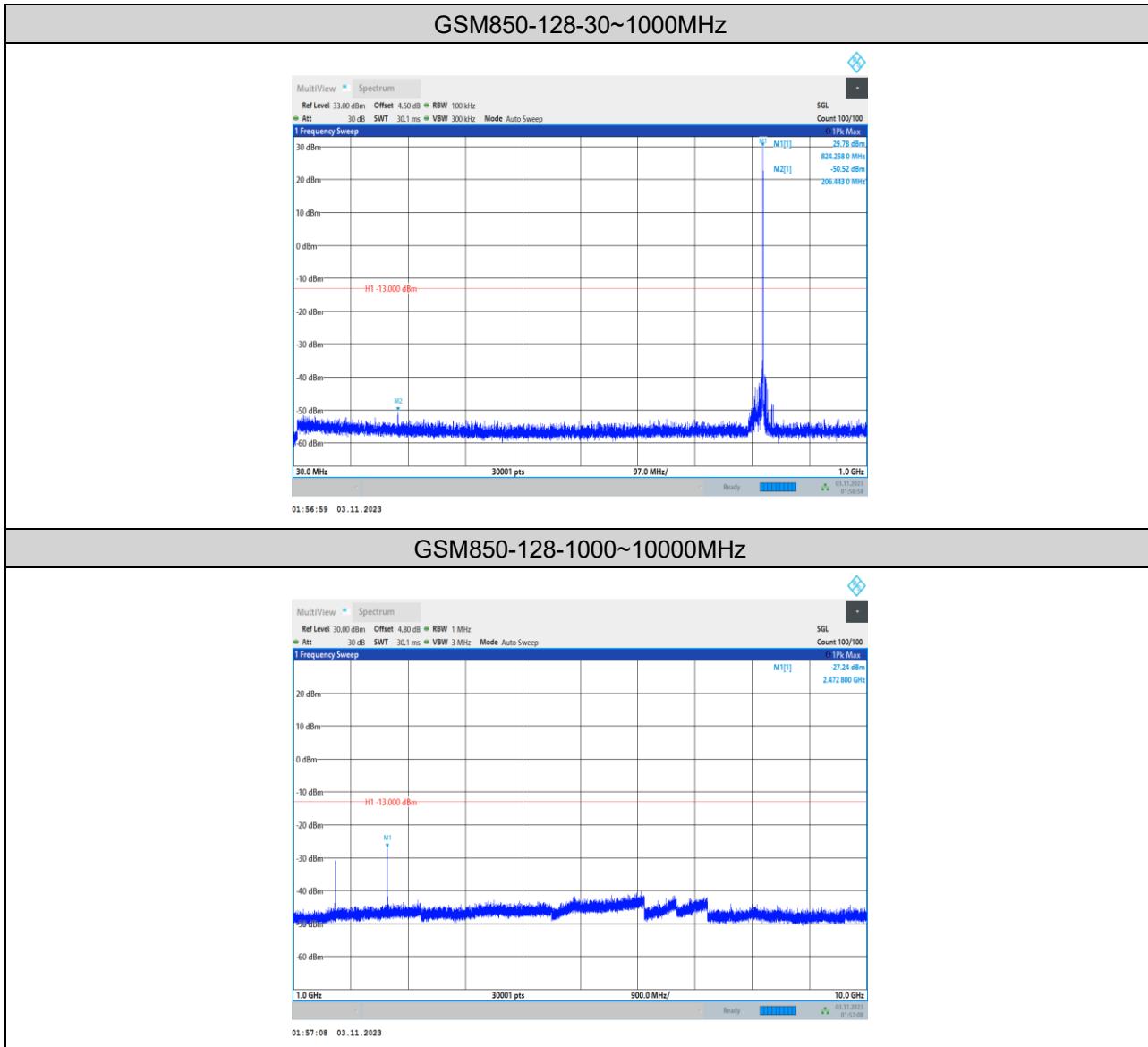
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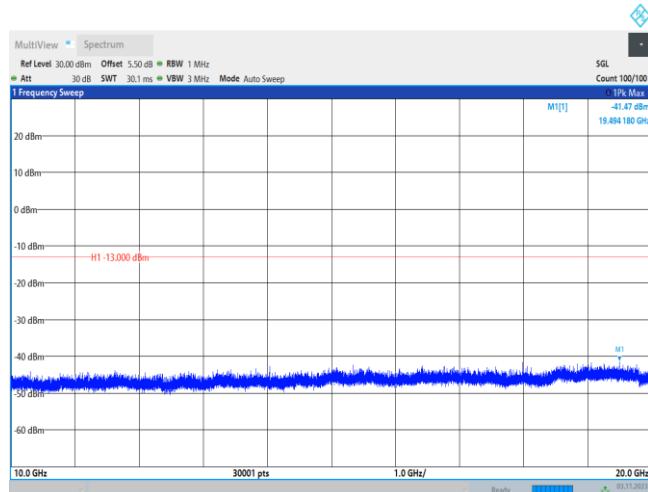
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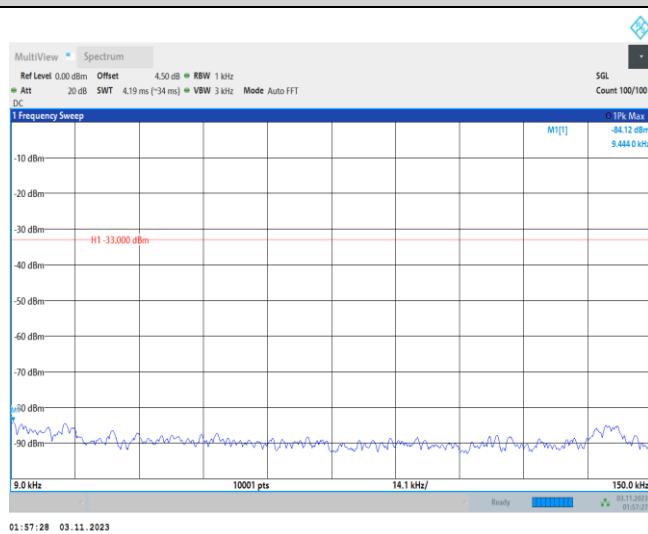


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### GSM850-128-10000~20000MHz



### GSM850-190-0.009~0.15MHz



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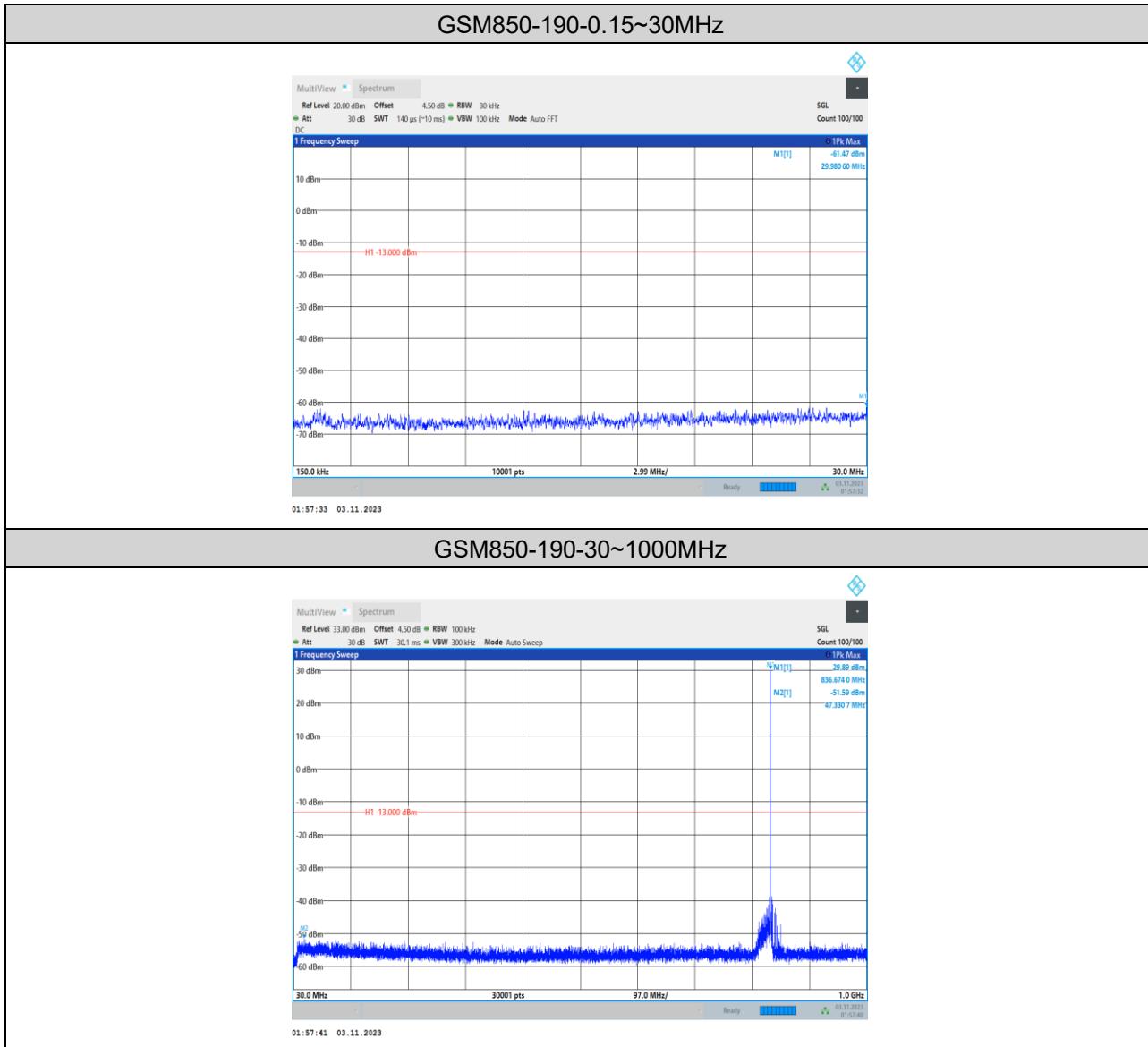


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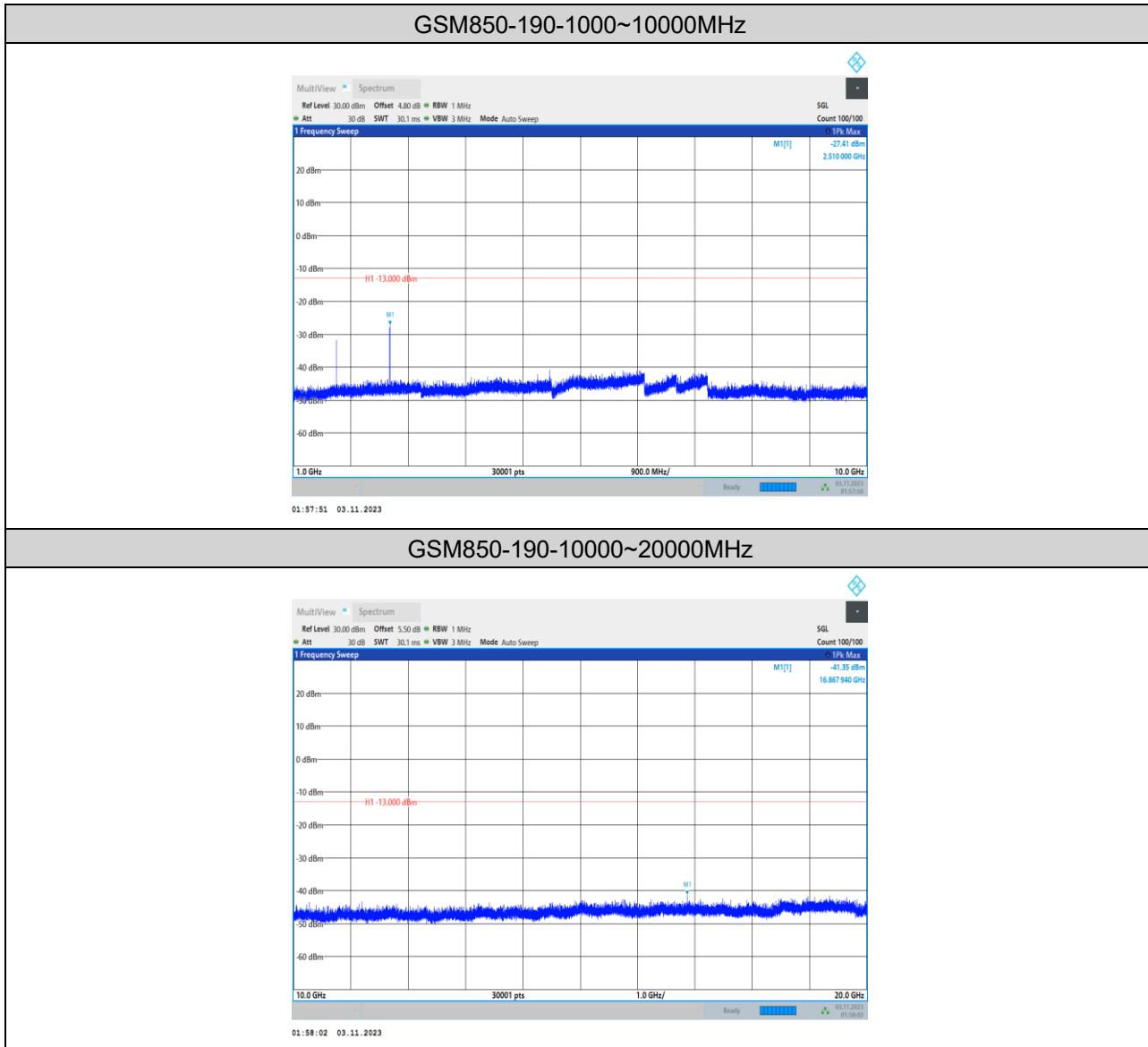
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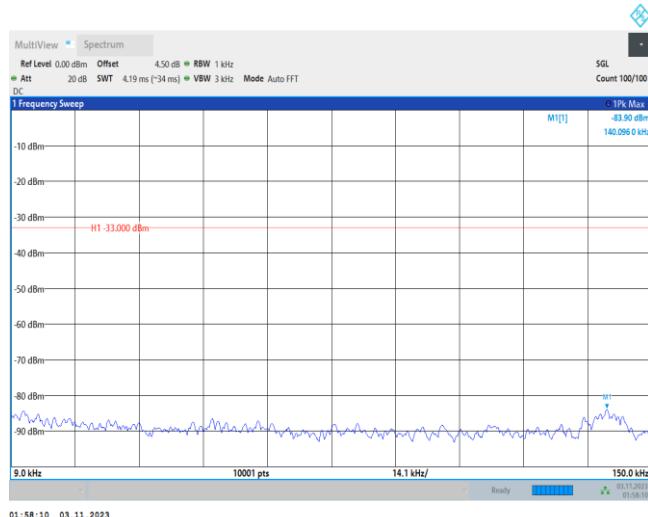
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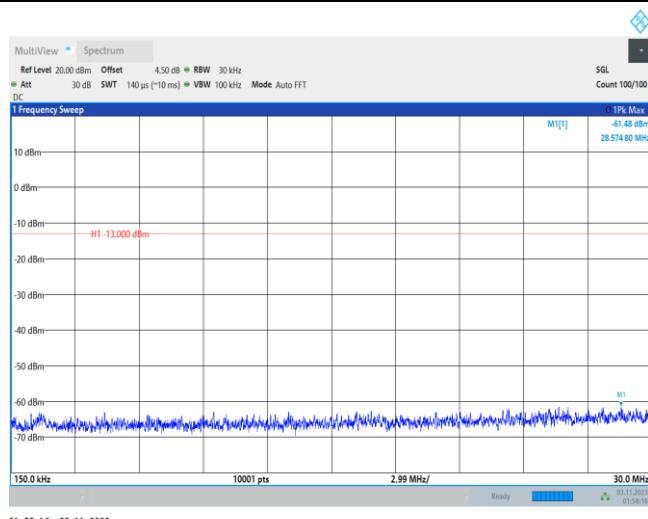
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### GSM850-251-0.009~0.15MHz



### GSM850-251-0.15~30MHz



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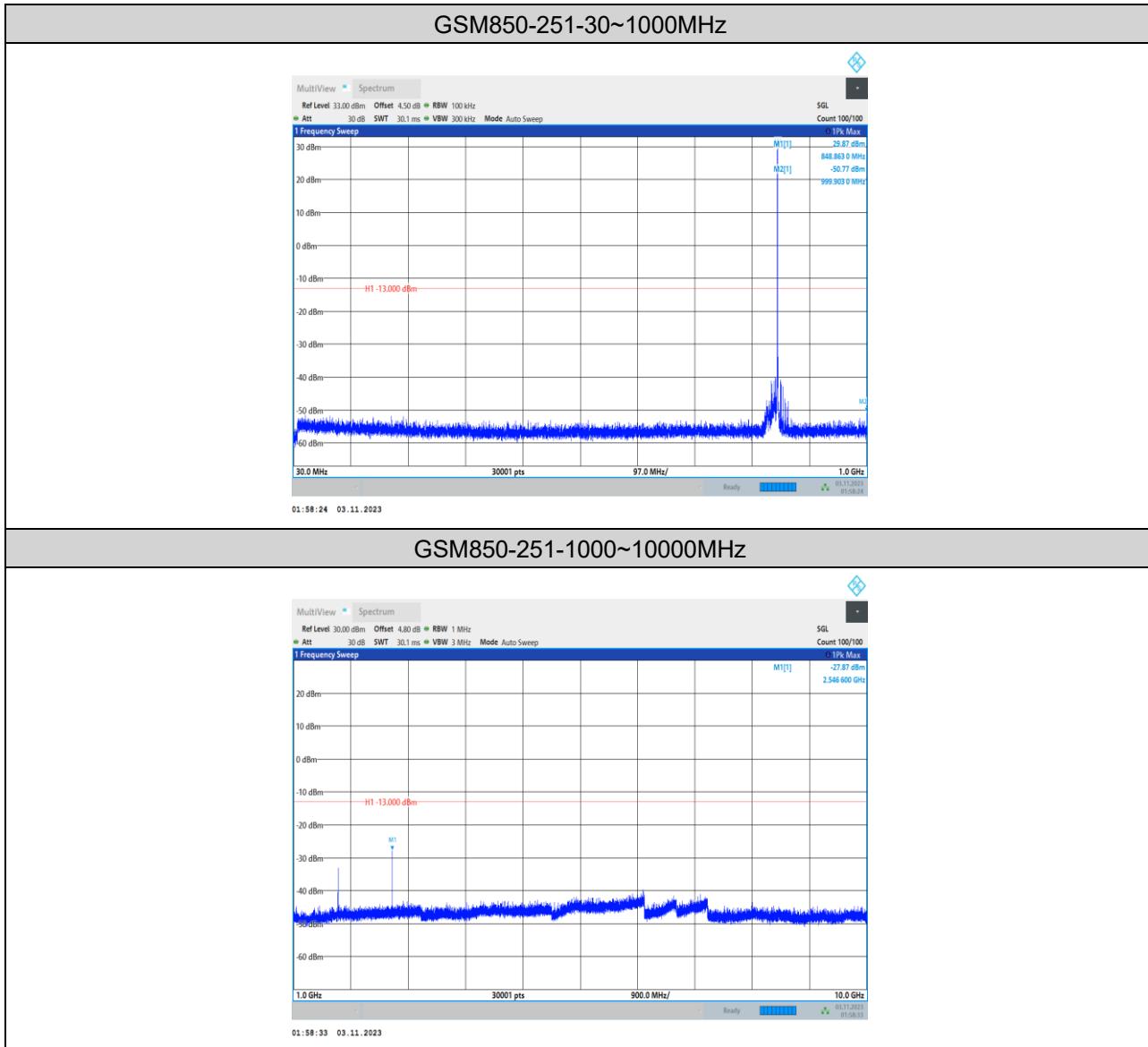
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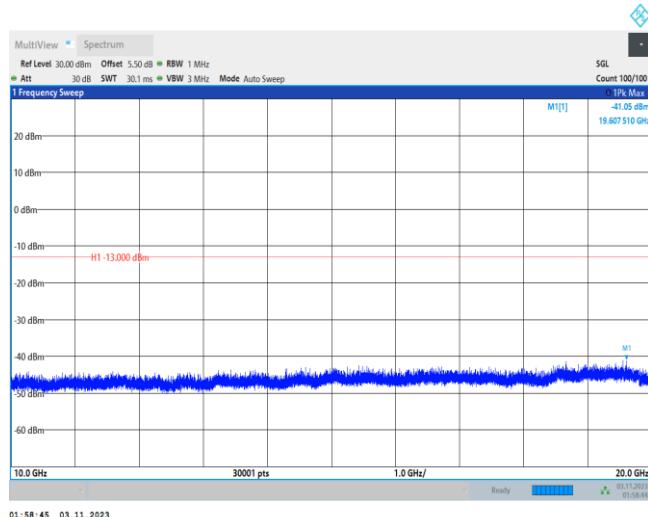
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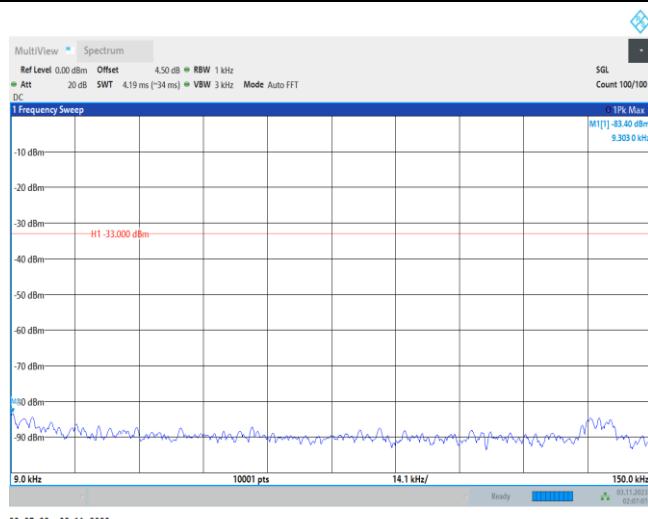
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01:58:45 03.11.2023

## EGPRS850-128-0.009~0.15MHz



02:07:02 03.11.2023

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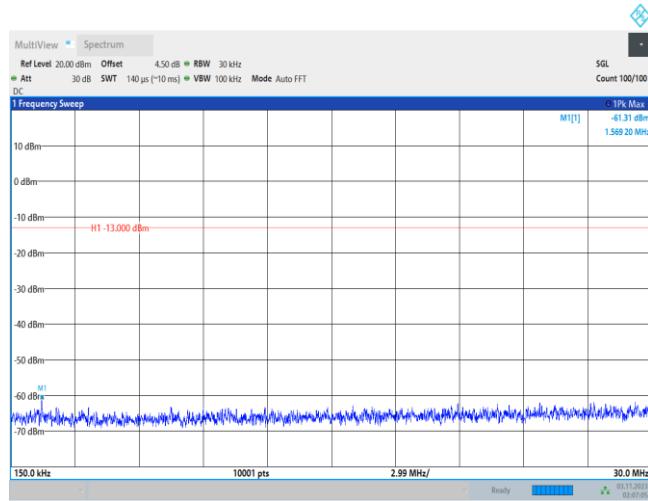
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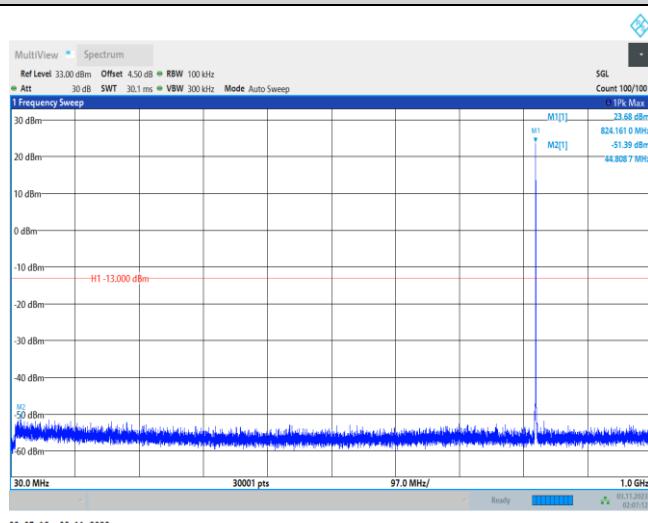
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## EGPRS850-128-0.15~30MHz



## EGPRS850-128-30~1000MHz



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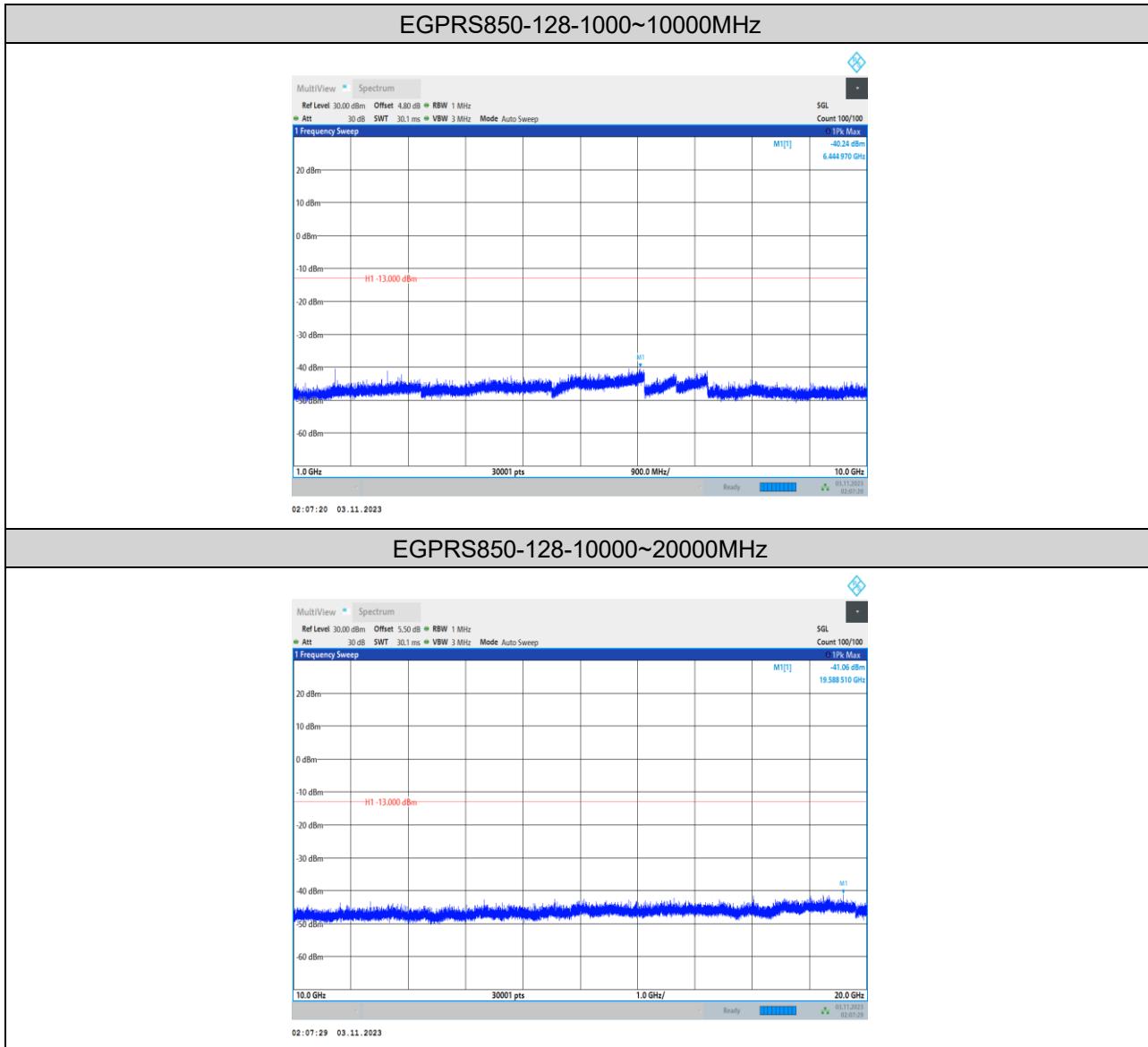
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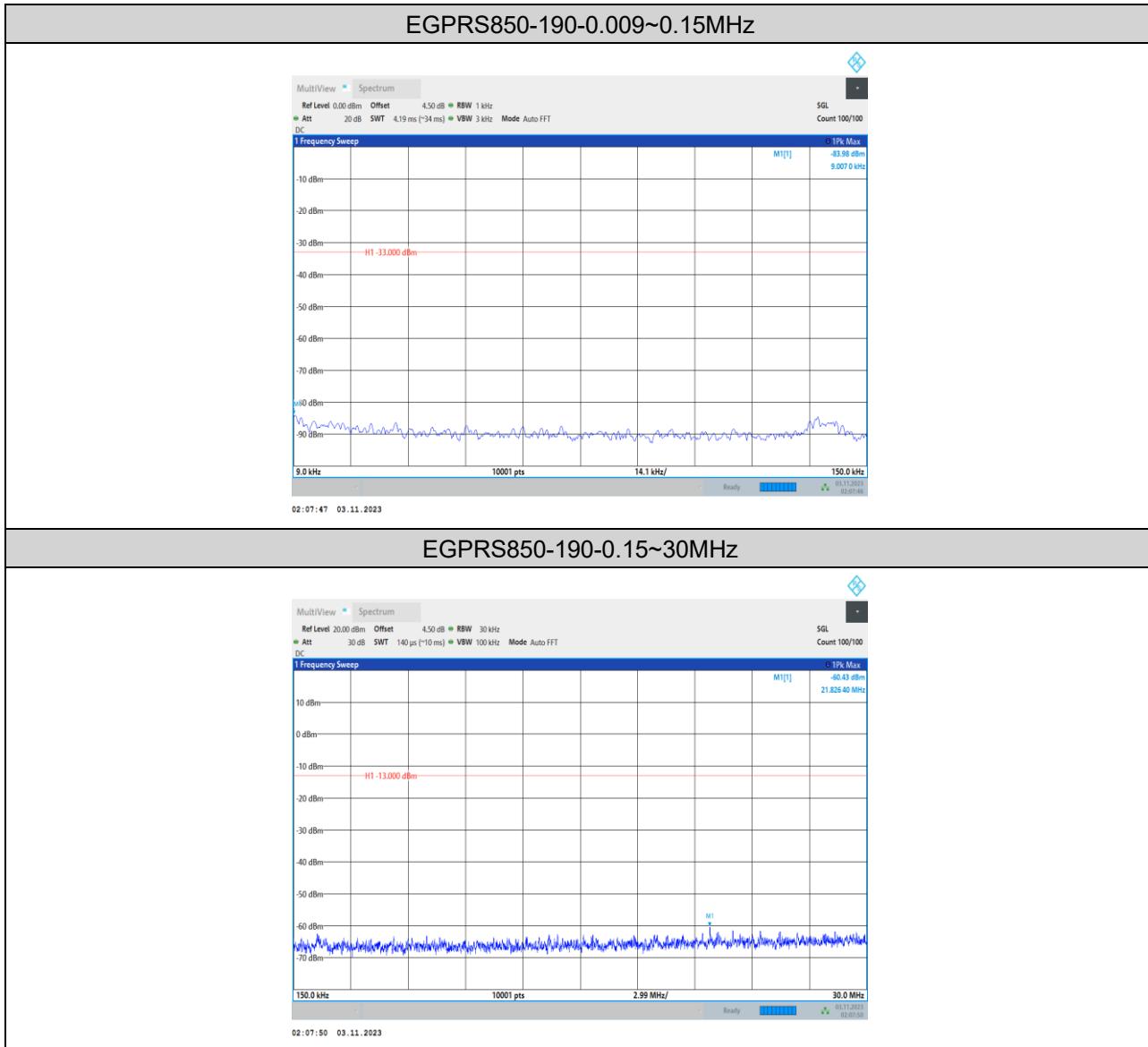
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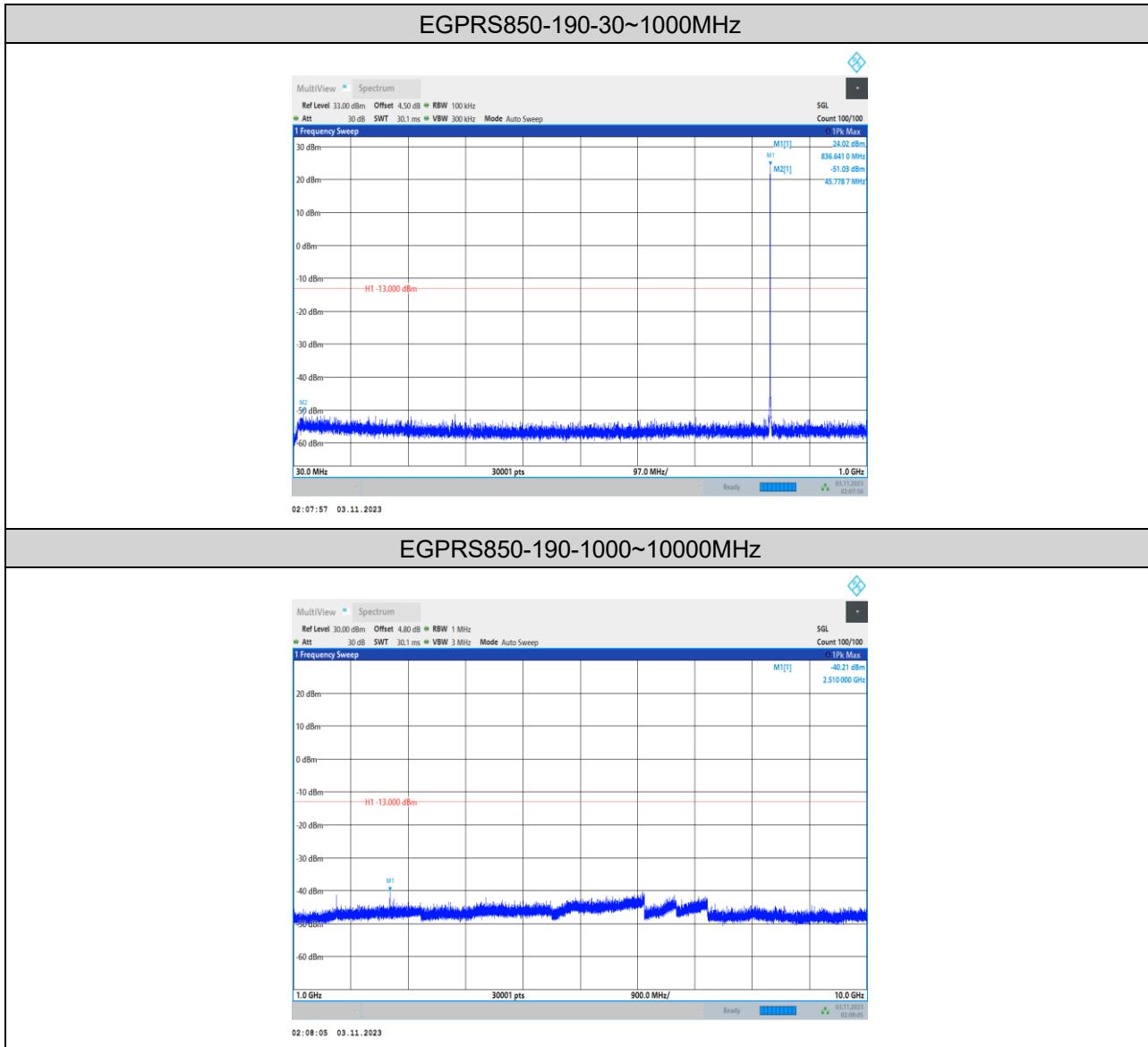
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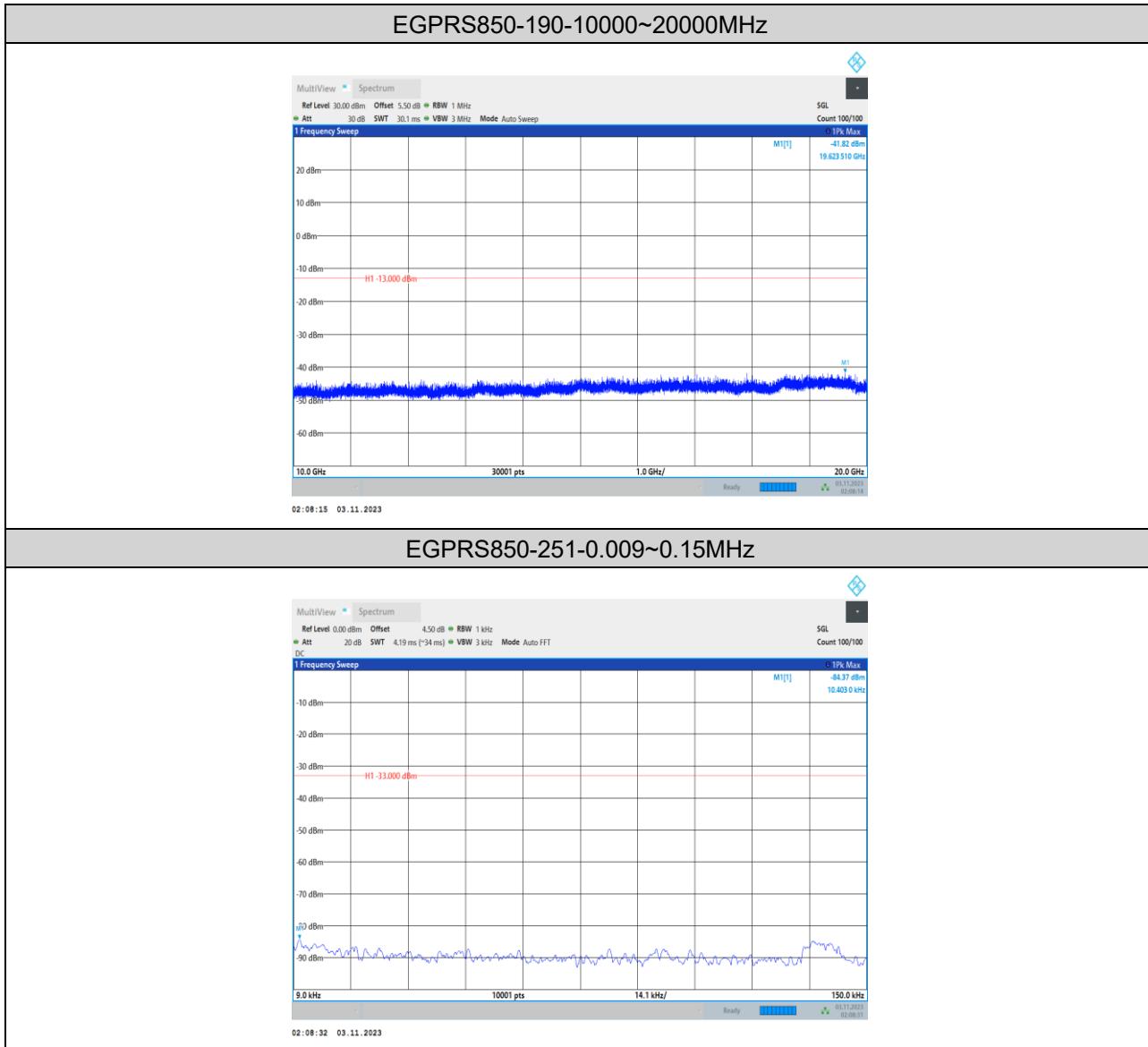


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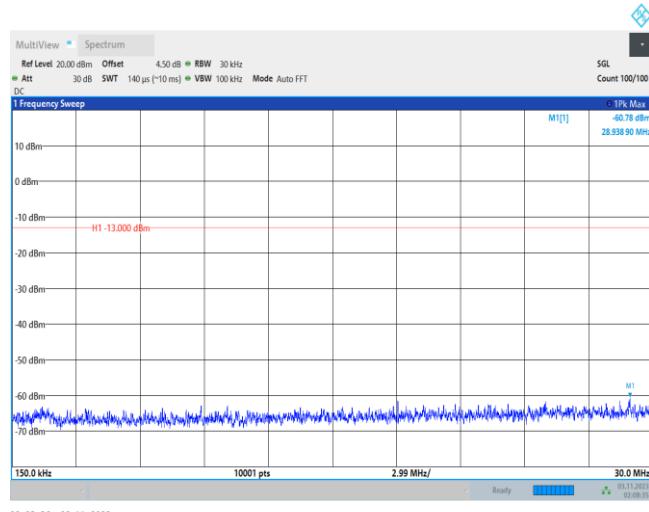


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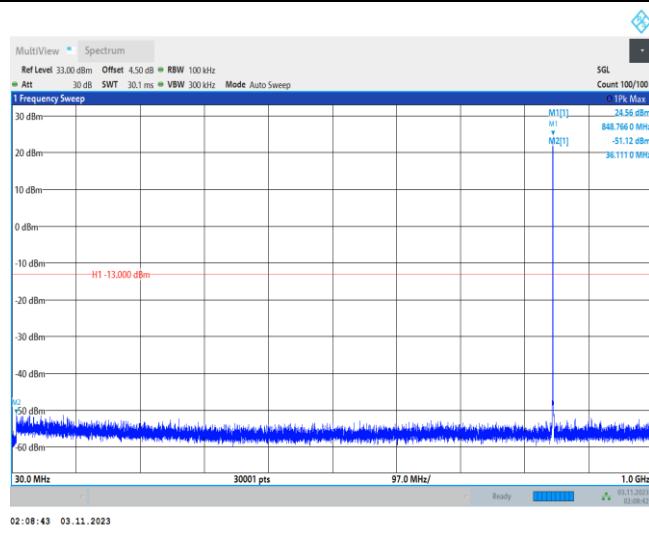
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## EGPRS850-251-0.15~30MHz



## EGPRS850-251-30~1000MHz



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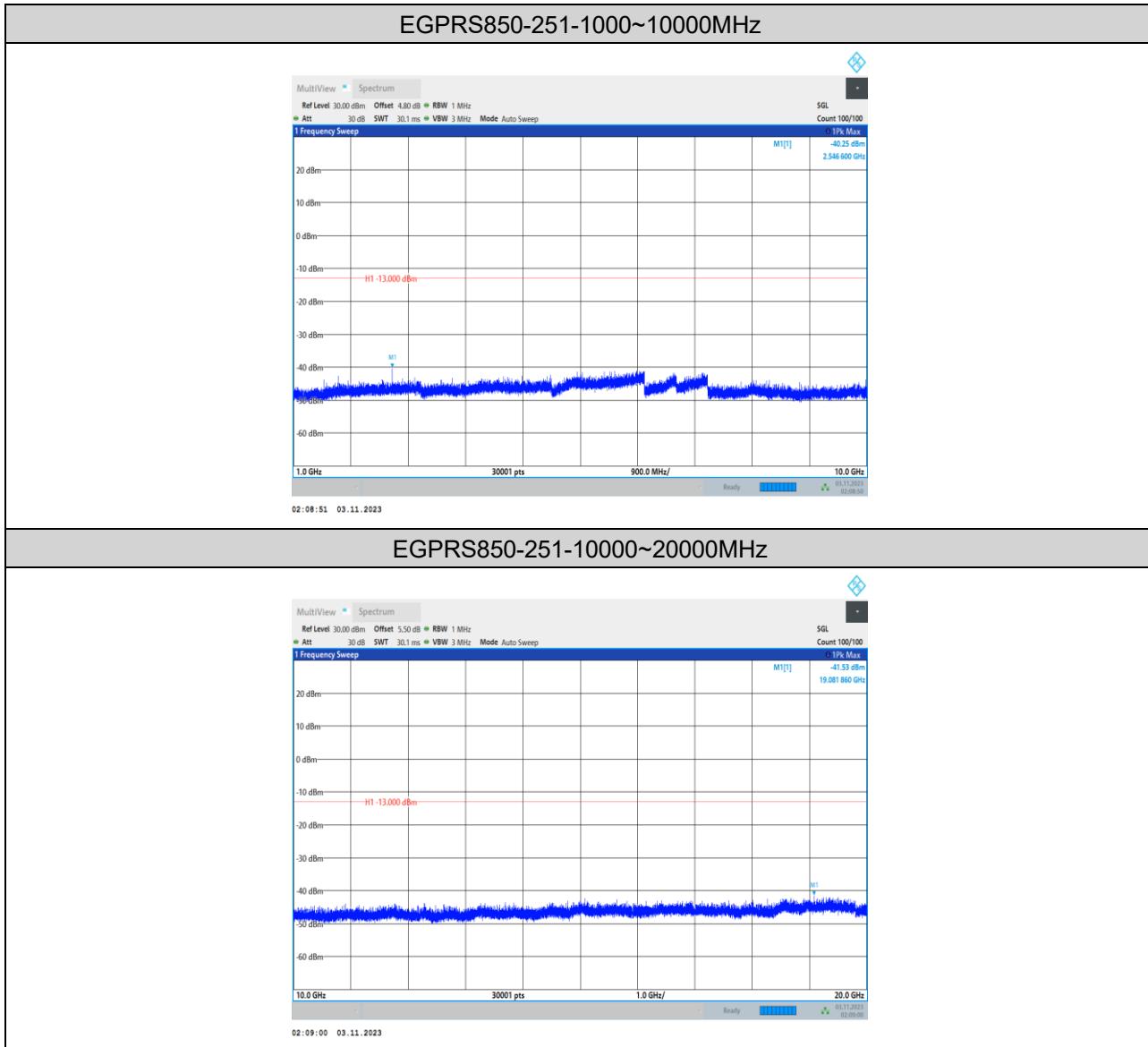
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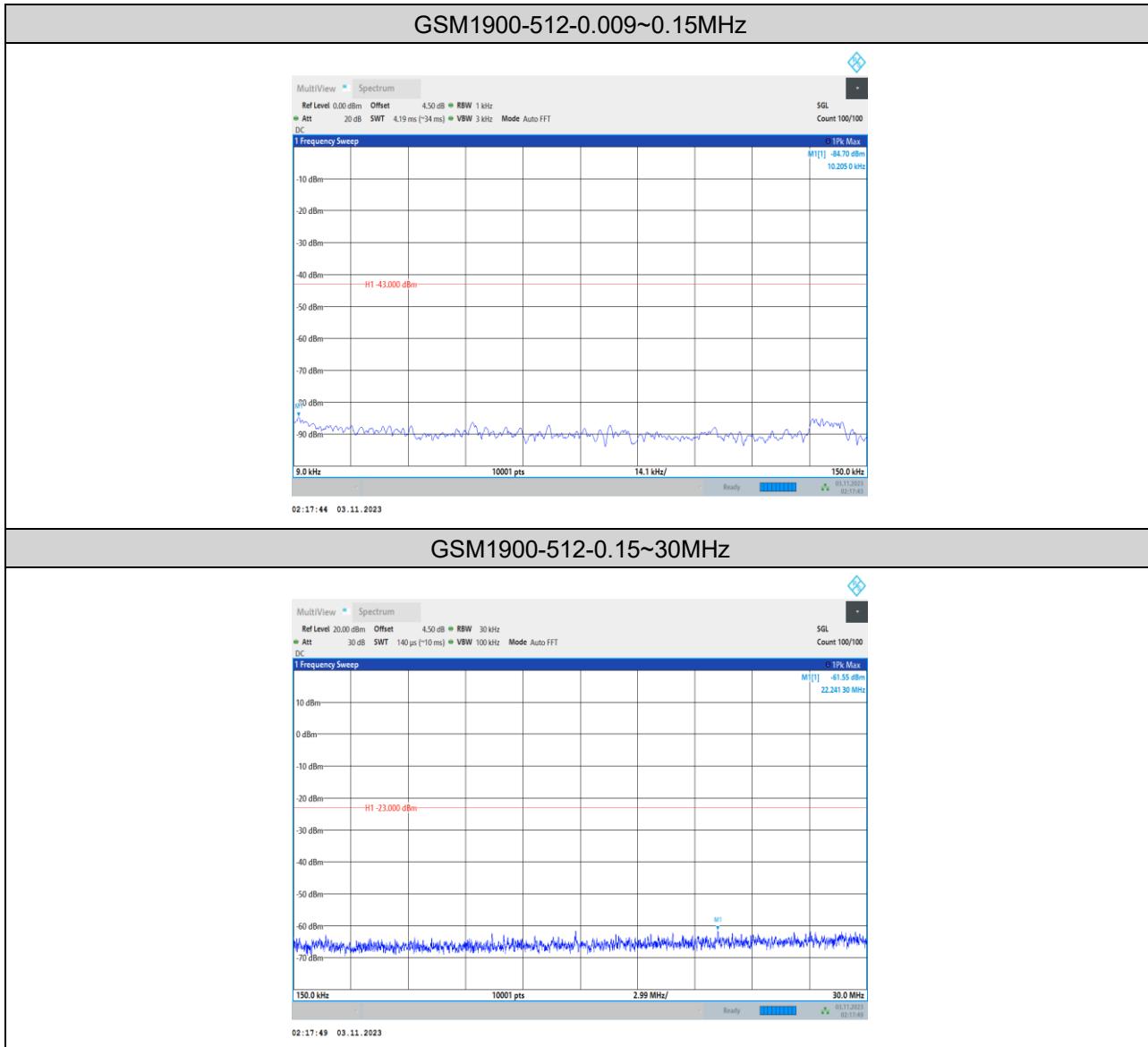
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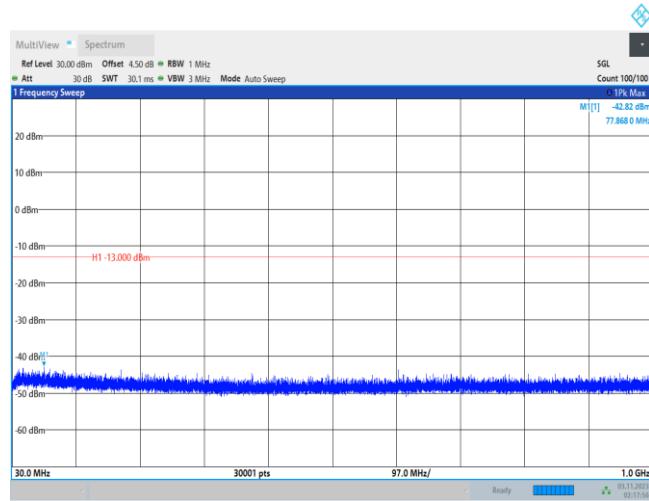
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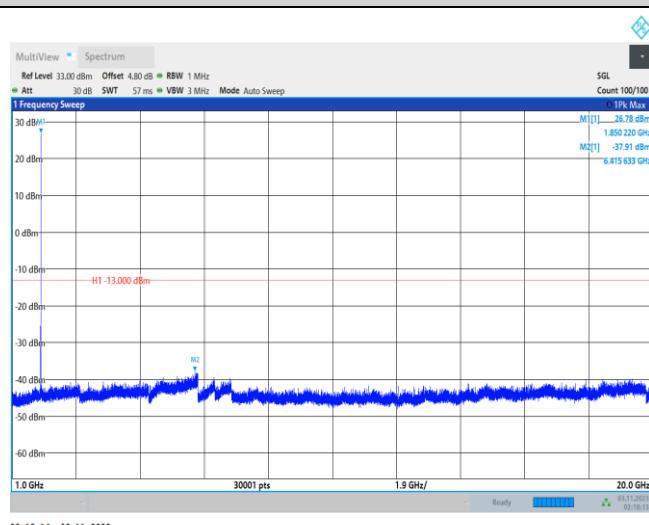
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## GSM1900-512-30~1000MHz



## GSM1900-512-1000~20000MHz



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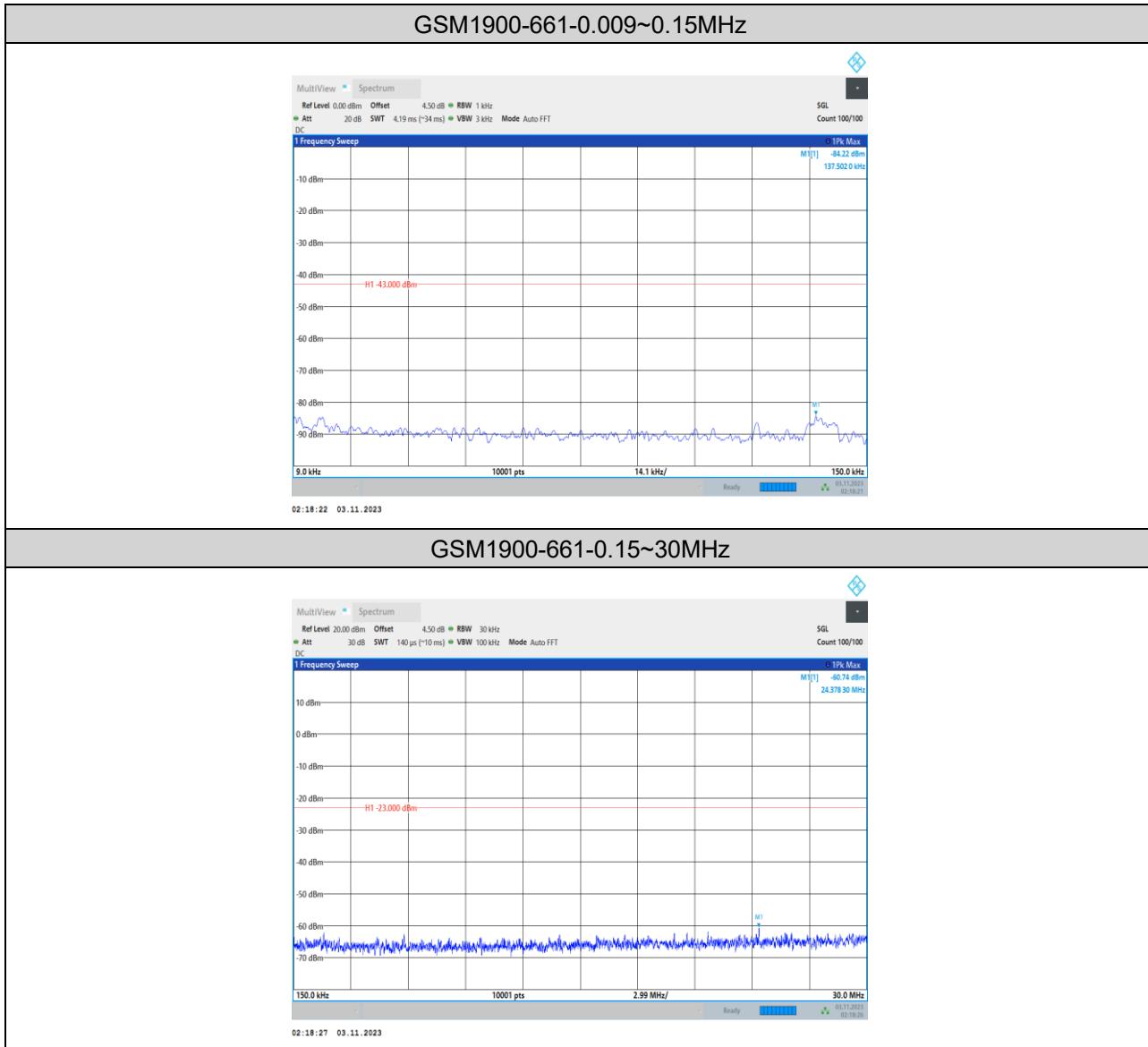
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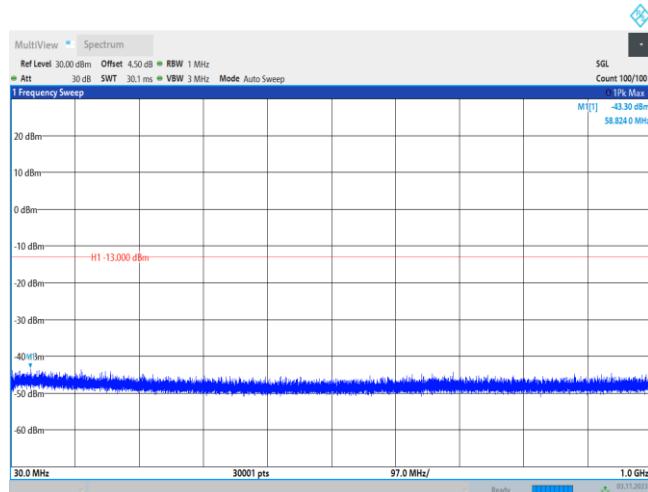
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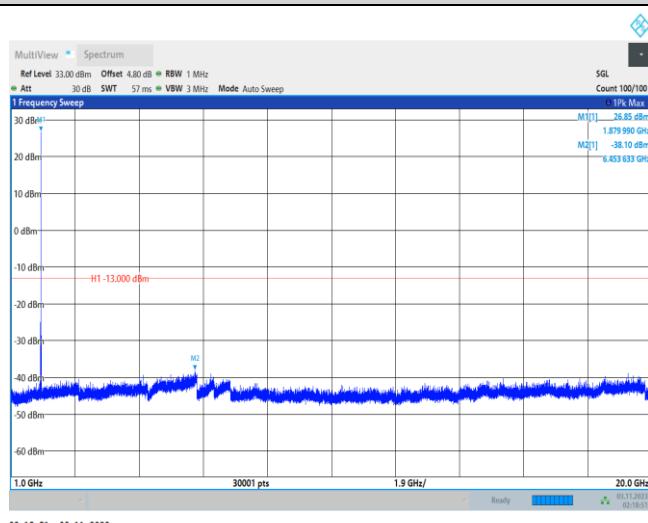
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## GSM1900-661-30~1000MHz



## GSM1900-661-1000~20000MHz



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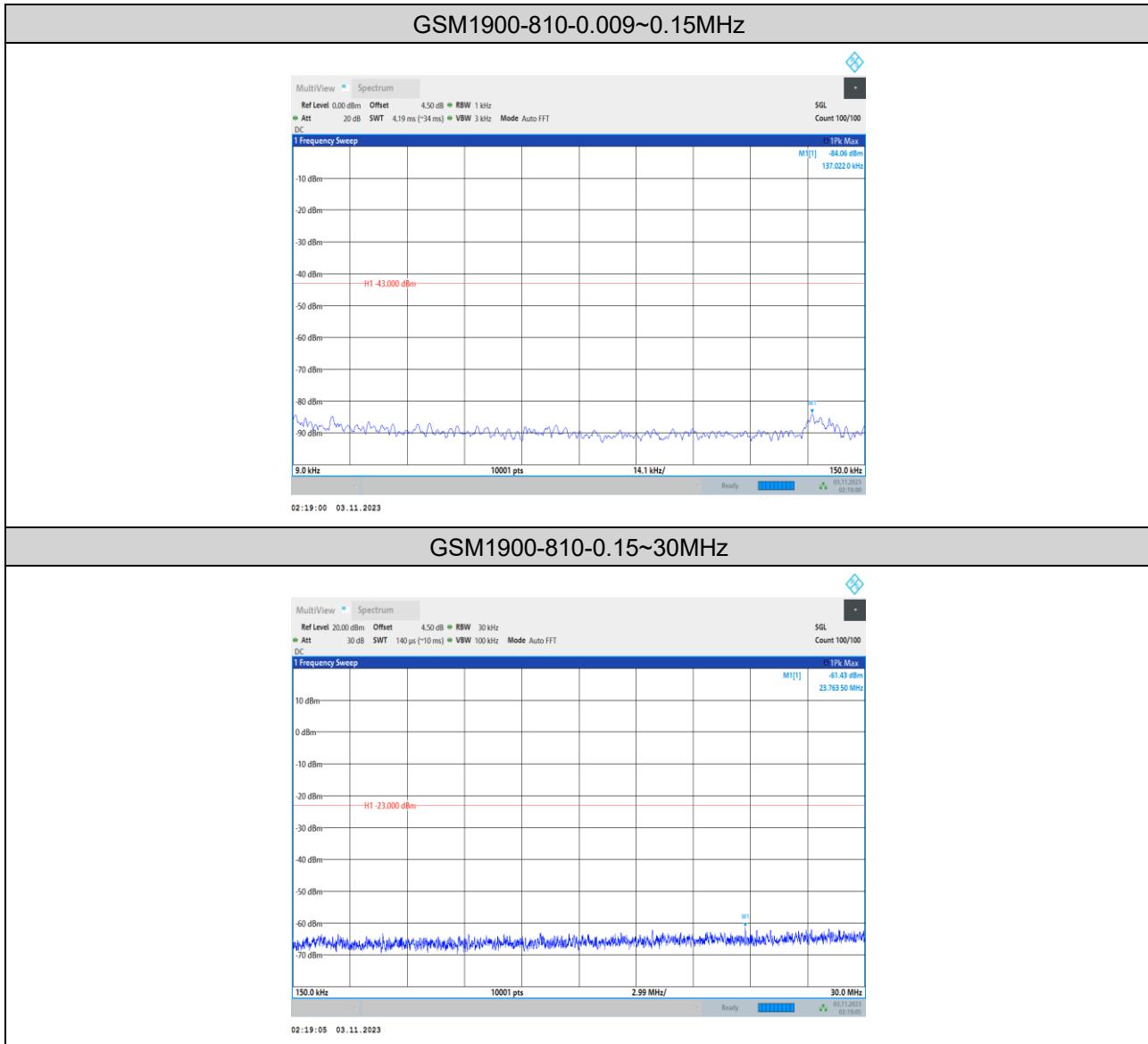


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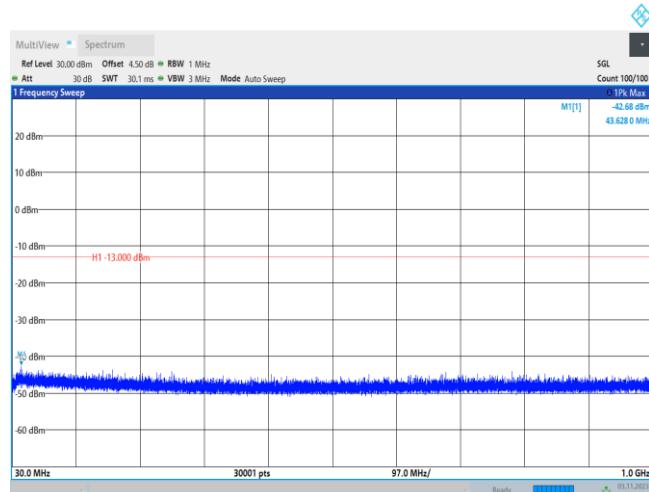
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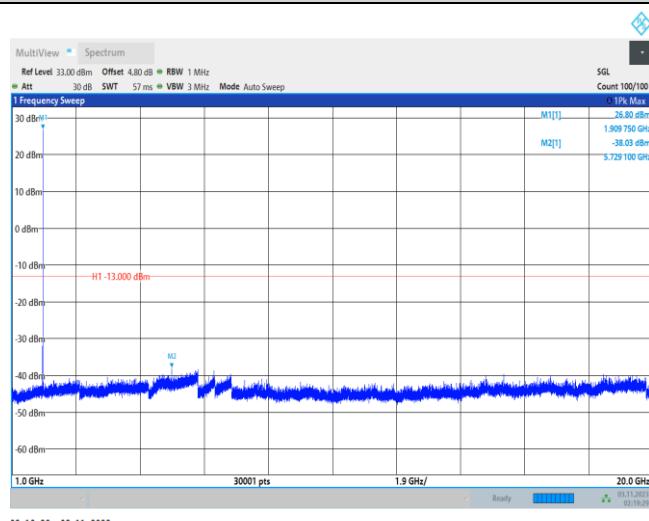


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## GSM1900-810-30~1000MHz



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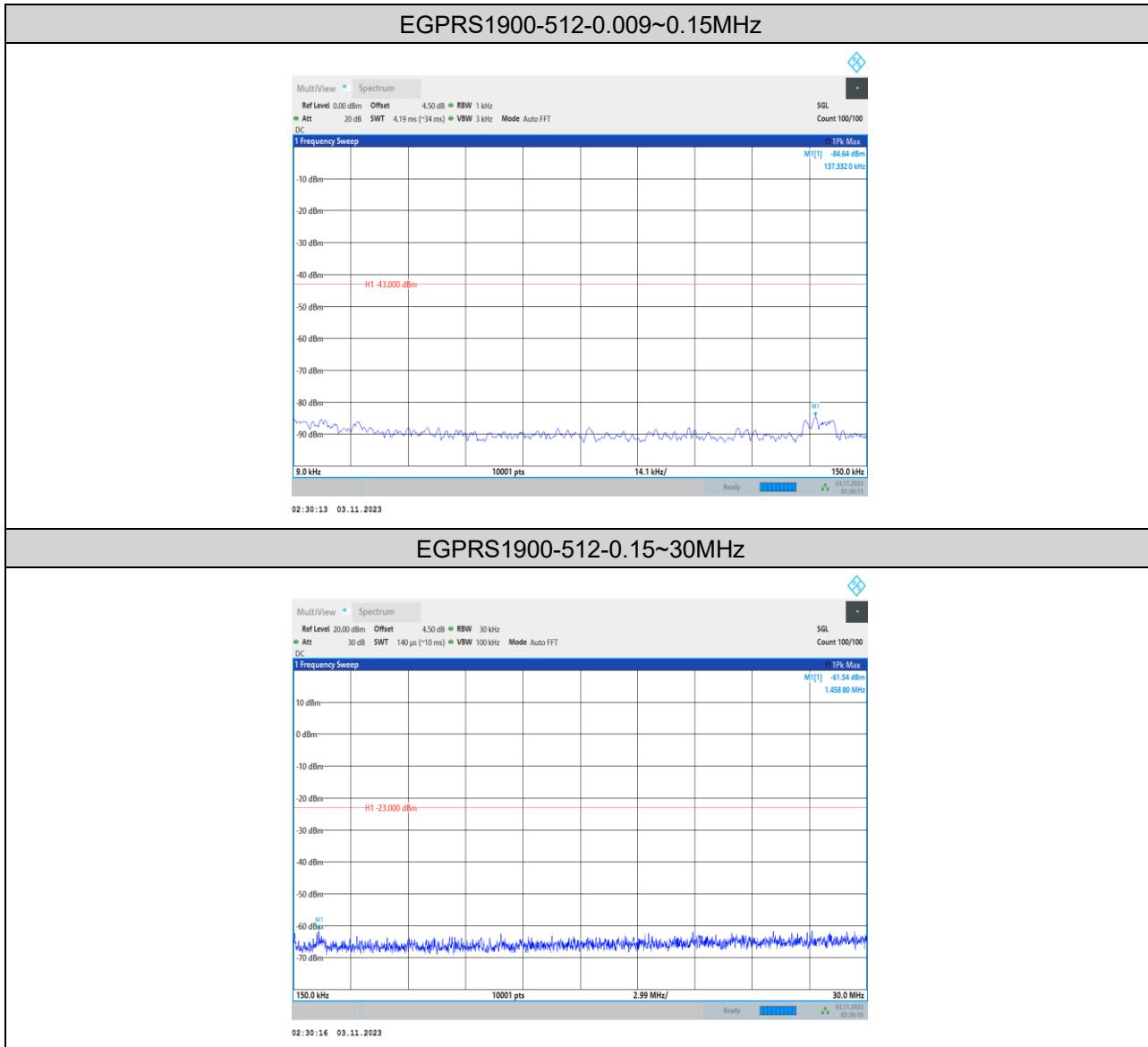
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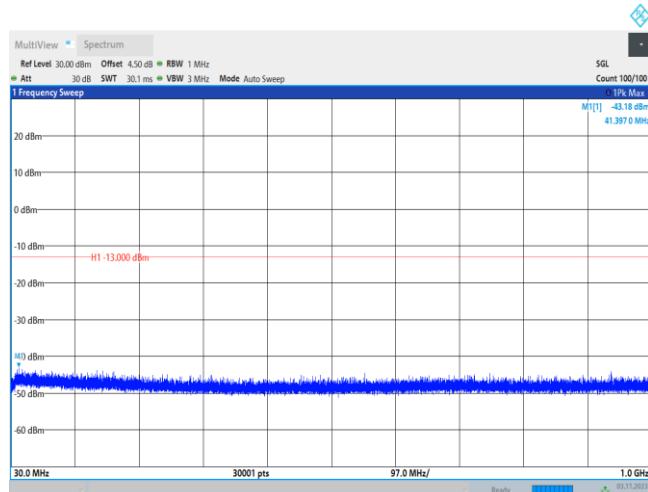
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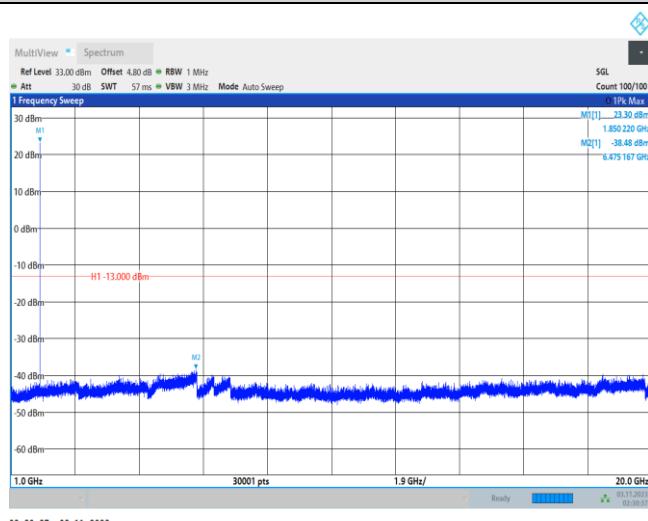
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## EGPRS1900-512-30~1000MHz



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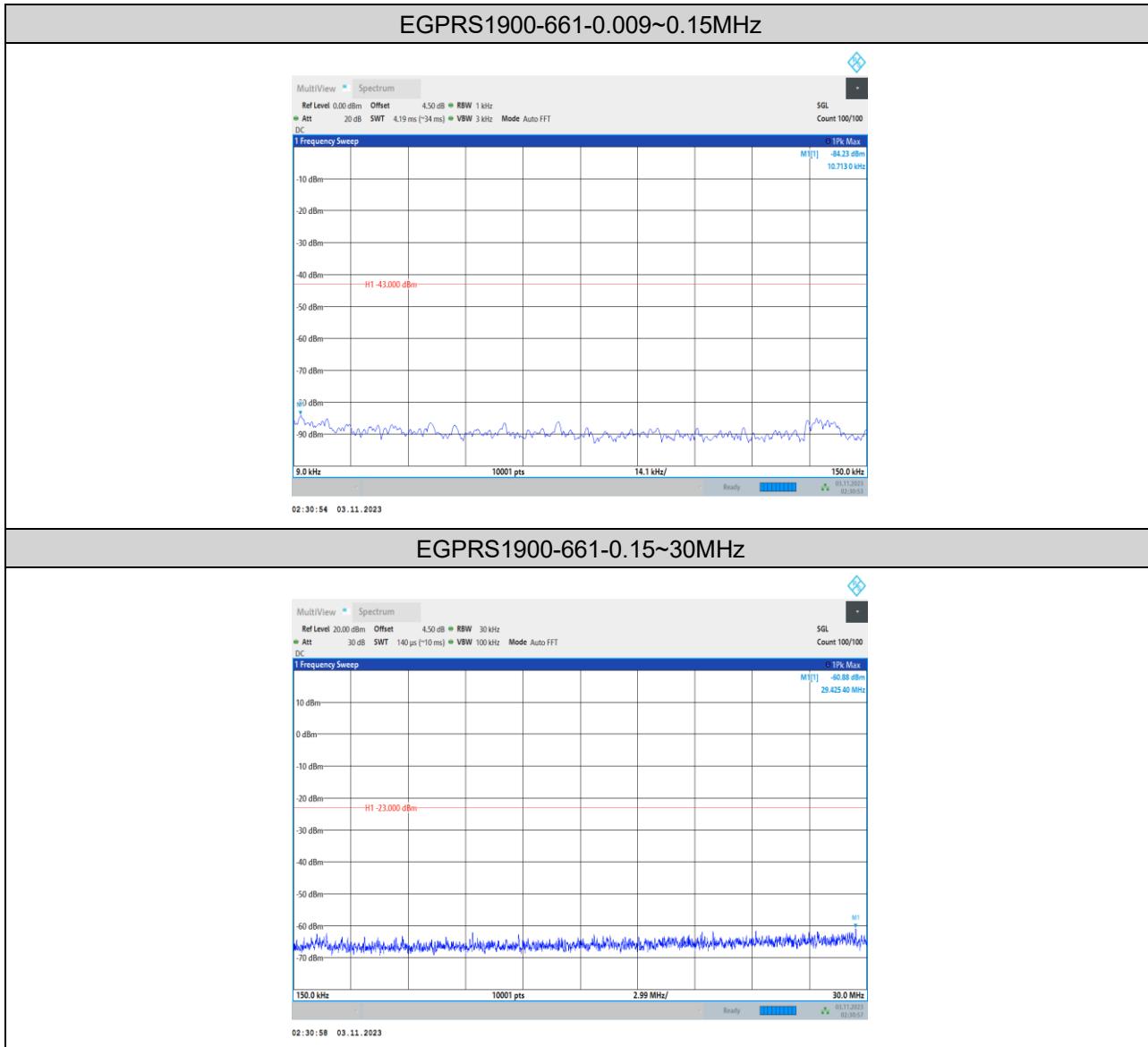
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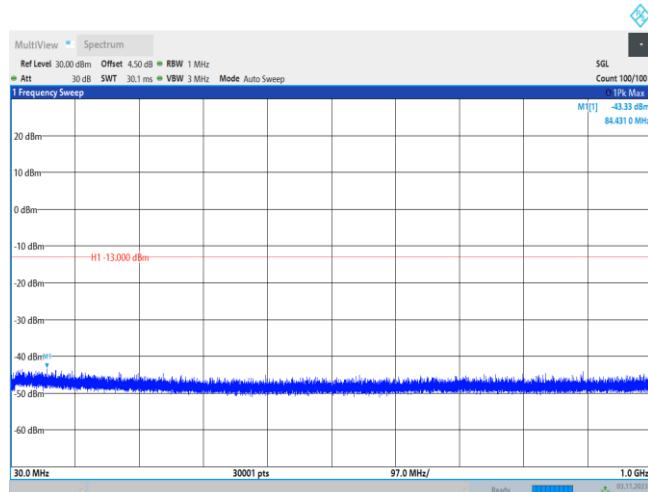
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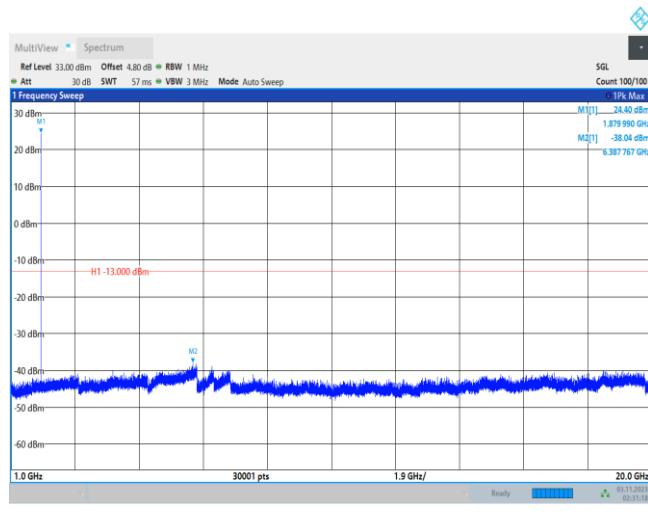
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## EGPRS1900-661-30~1000MHz



02:31:04 03.11.2023

## EGPRS1900-661-1000~20000MHz



02:31:19 03.11.2023



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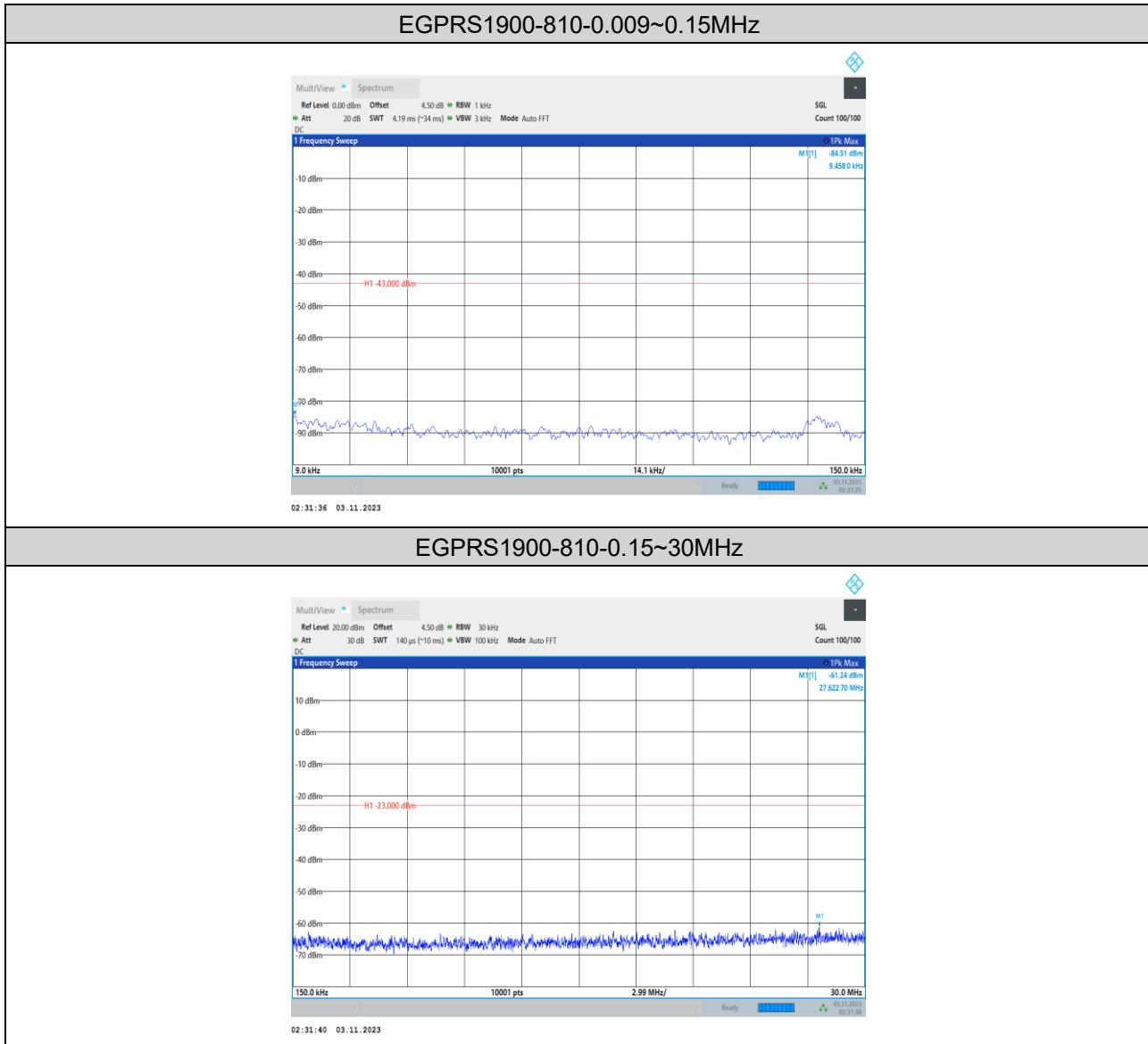
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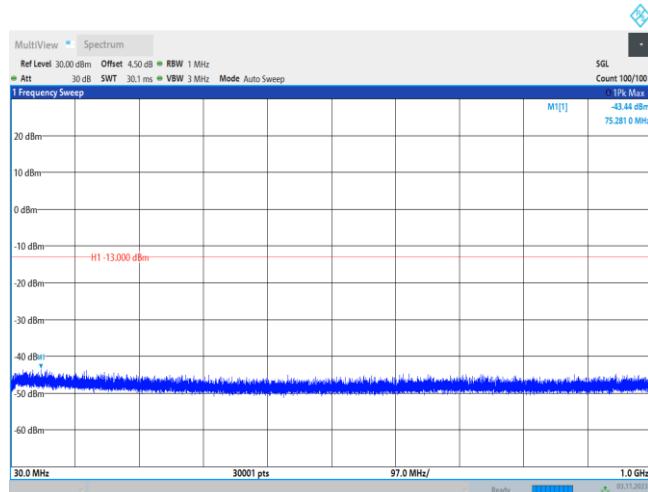
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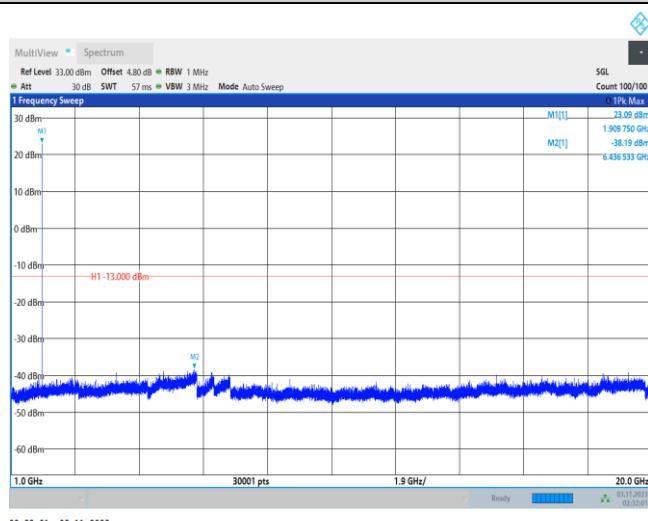
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## EGPRS1900-810-30~1000MHz



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## Field Strength of Spurious Radiation

Test Band = GSM 850  
Test Channel = Low Channel

Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ 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 $\mu$ 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**

<b>Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ 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

<b>Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ 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 $\mu$ 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 $\mu$ 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**

<b>Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ 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

<b>Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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

---End of Attachment---



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