



# Appendix B

## GSM 850 & 1900



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1. Test Result

#### ANT1:

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.28	25.63	38.45	PASS
GSM850	190	---	32.34	25.69	38.45	PASS
GSM850	251	---	32.30	25.65	38.45	PASS
EGPRS850	128	1	26.45	19.8	38.45	PASS
EGPRS850	128	2	23.70	17.05	38.45	PASS
EGPRS850	128	3	21.90	15.25	38.45	PASS
EGPRS850	128	4	20.46	13.81	38.45	PASS
EGPRS850	190	1	26.37	19.72	38.45	PASS
EGPRS850	190	2	23.51	16.86	38.45	PASS
EGPRS850	190	3	21.81	15.16	38.45	PASS
EGPRS850	190	4	20.29	13.64	38.45	PASS
EGPRS850	251	1	26.30	19.65	38.45	PASS
EGPRS850	251	2	23.53	16.88	38.45	PASS
EGPRS850	251	3	21.65	15	38.45	PASS
EGPRS850	251	4	20.26	13.61	38.45	PASS

#### ANT2:

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	30.54	28.64	33.00	PASS
GSM1900	661	---	30.58	28.68	33.00	PASS
GSM1900	810	---	30.56	28.66	33.00	PASS
EGPRS1900	512	1	26.04	24.14	33.00	PASS
EGPRS1900	512	2	23.53	21.63	33.00	PASS
EGPRS1900	512	3	21.75	19.85	33.00	PASS
EGPRS1900	512	4	20.30	18.4	33.00	PASS
EGPRS1900	661	1	26.12	24.22	33.00	PASS
EGPRS1900	661	2	23.60	21.7	33.00	PASS
EGPRS1900	661	3	21.85	19.95	33.00	PASS
EGPRS1900	661	4	20.18	18.28	33.00	PASS
EGPRS1900	810	1	25.94	24.04	33.00	PASS
EGPRS1900	810	2	23.51	21.61	33.00	PASS
EGPRS1900	810	3	21.51	19.61	33.00	PASS
EGPRS1900	810	4	20.12	18.22	33.00	PASS



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**ANT4:**

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.28	25.83	38.45	PASS
GSM850	190	---	32.34	25.89	38.45	PASS
GSM850	251	---	32.30	25.85	38.45	PASS
EGPRS850	128	1	26.45	20	38.45	PASS
EGPRS850	128	2	23.70	17.25	38.45	PASS
EGPRS850	128	3	21.90	15.45	38.45	PASS
EGPRS850	128	4	20.46	14.01	38.45	PASS
EGPRS850	190	1	26.37	19.92	38.45	PASS
EGPRS850	190	2	23.51	17.06	38.45	PASS
EGPRS850	190	3	21.81	15.36	38.45	PASS
EGPRS850	190	4	20.29	13.84	38.45	PASS
EGPRS850	251	1	26.30	19.85	38.45	PASS
EGPRS850	251	2	23.53	17.08	38.45	PASS
EGPRS850	251	3	21.65	15.2	38.45	PASS
EGPRS850	251	4	20.26	13.81	38.45	PASS

**ANT3:**

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.87	25.37	33.00	PASS
GSM1900	661	---	29.60	25.1	33.00	PASS
GSM1900	810	---	29.70	25.2	33.00	PASS
EGPRS1900	512	1	25.71	21.21	33.00	PASS
EGPRS1900	512	2	23.32	18.82	33.00	PASS
EGPRS1900	512	3	21.26	16.76	33.00	PASS
EGPRS1900	512	4	20.10	15.6	33.00	PASS
EGPRS1900	661	1	25.82	21.32	33.00	PASS
EGPRS1900	661	2	23.27	18.77	33.00	PASS
EGPRS1900	661	3	21.18	16.68	33.00	PASS
EGPRS1900	661	4	20.25	15.75	33.00	PASS
EGPRS1900	810	1	25.96	21.46	33.00	PASS
EGPRS1900	810	2	23.16	18.66	33.00	PASS
EGPRS1900	810	3	21.31	16.81	33.00	PASS
EGPRS1900	810	4	19.87	15.37	33.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$ERP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBd]$$

$$EIRP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBi]$$



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## 2. Peak-to-Average Ratio

### 2.1. Test Result

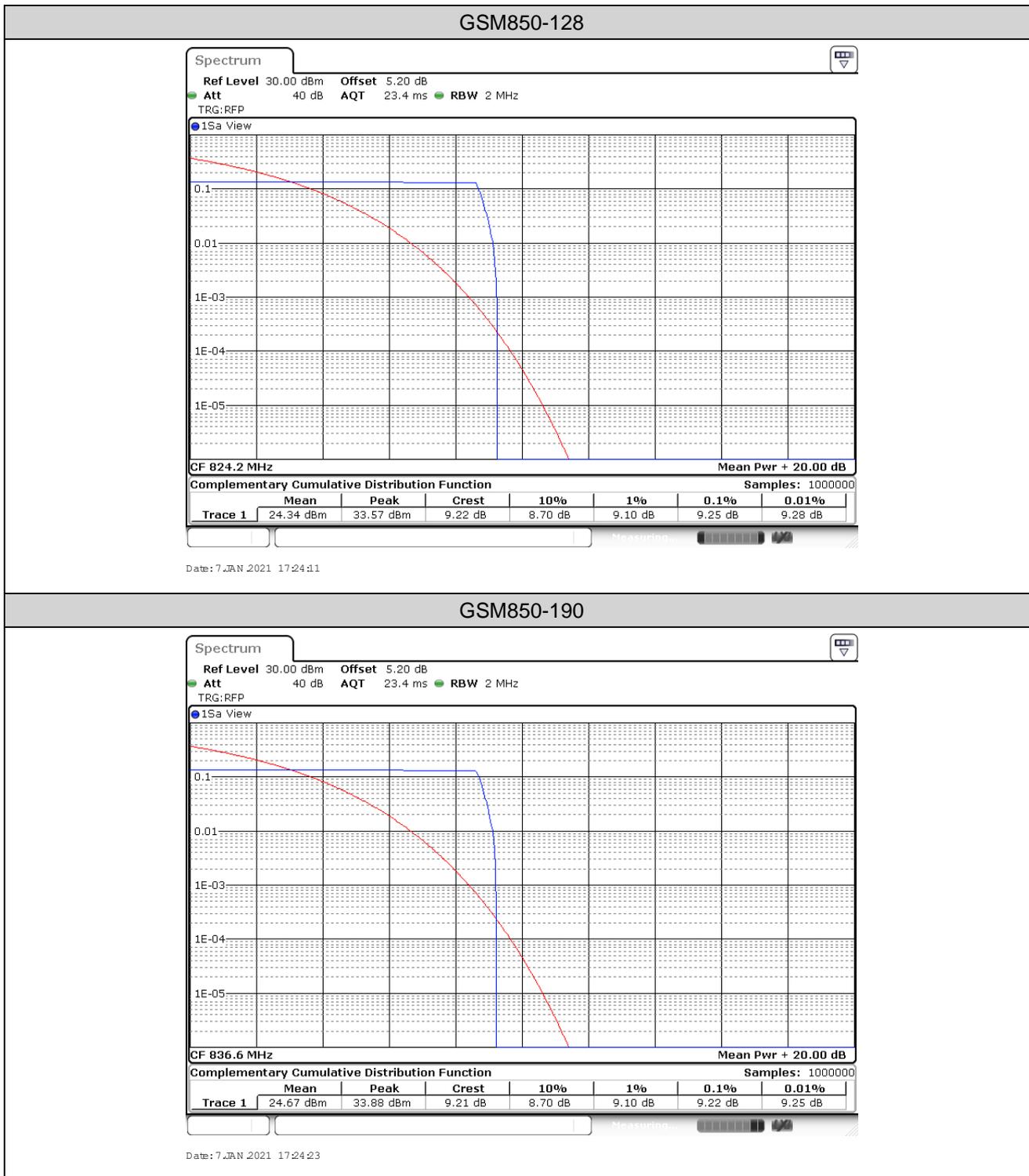
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.25	13	PASS
GSM850	190	9.22	13	PASS
GSM850	251	9.16	13	PASS
EGPRS850	128	11.83	13	PASS
EGPRS850	190	12.72	13	PASS
EGPRS850	251	12.49	13	PASS
GSM1900	512	9.1	13	PASS
GSM1900	661	9.91	13	PASS
GSM1900	810	9.94	13	PASS
EGPRS1900	512	12.72	13	PASS
EGPRS1900	661	12.32	13	PASS
EGPRS1900	810	11.94	13	PASS



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**2.2.Part II - Test Plots**

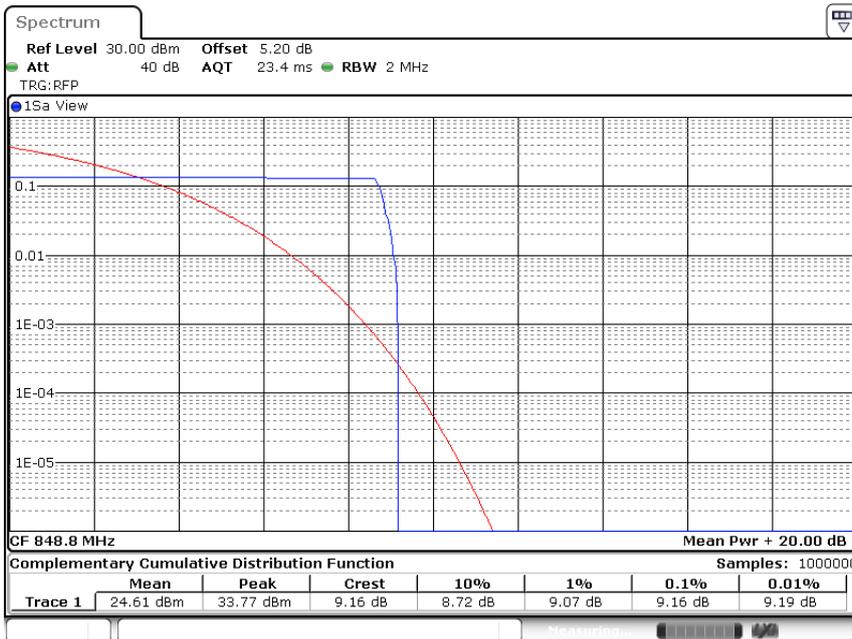


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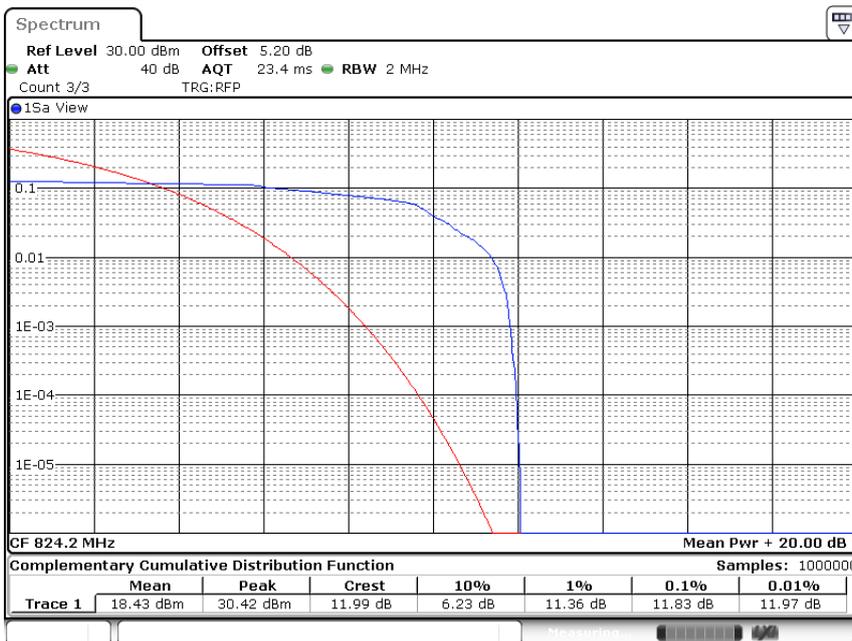
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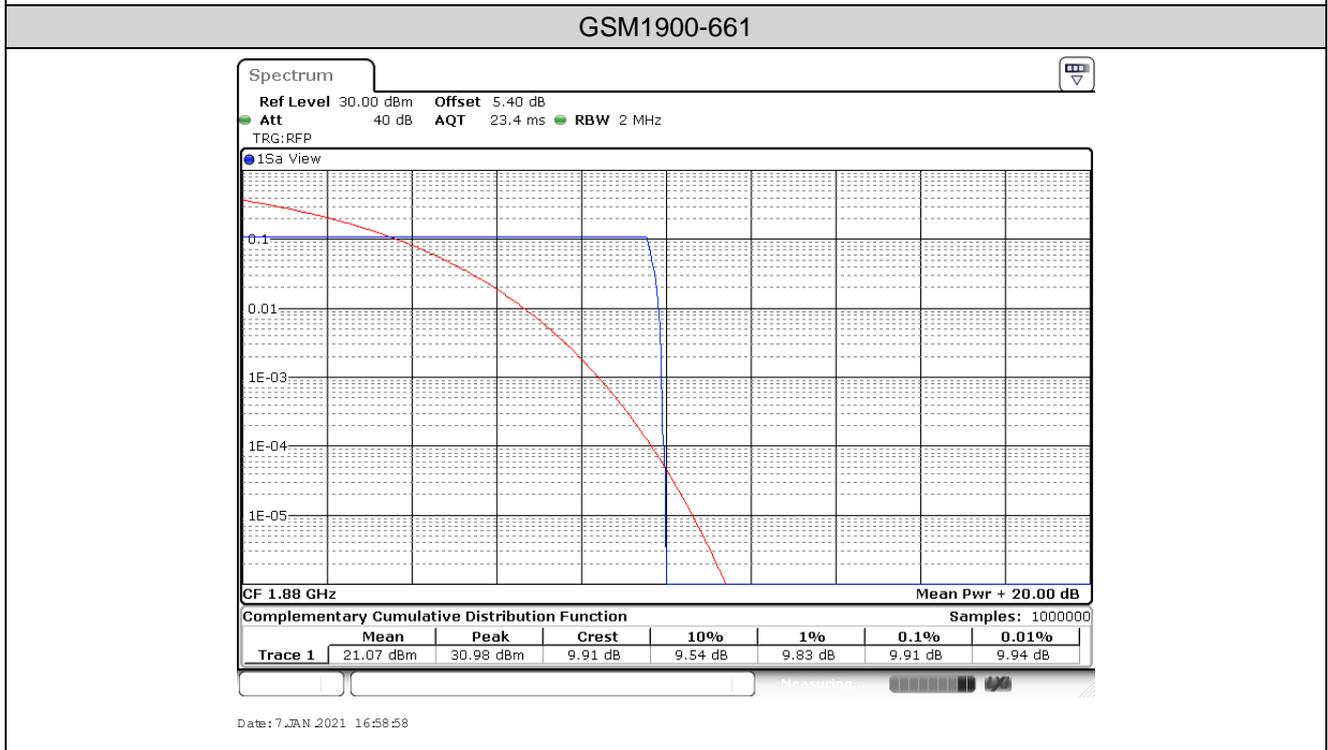
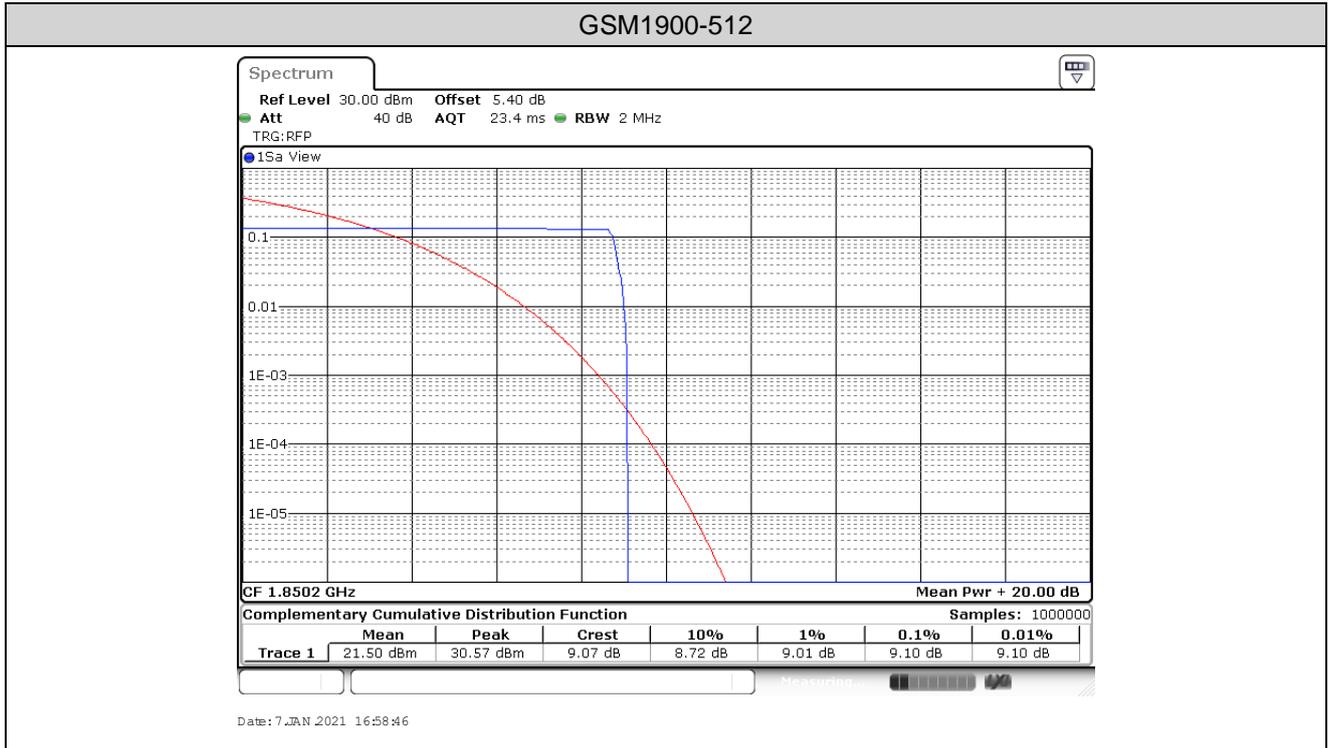


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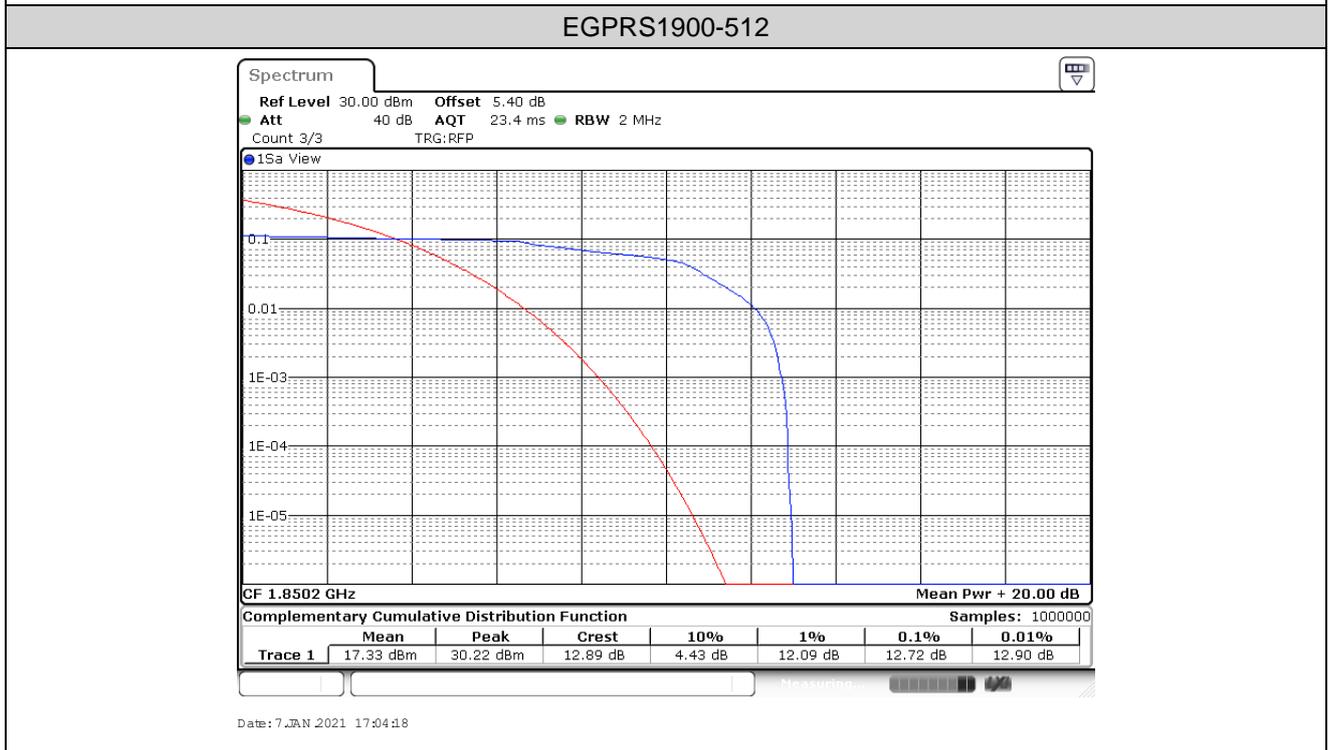
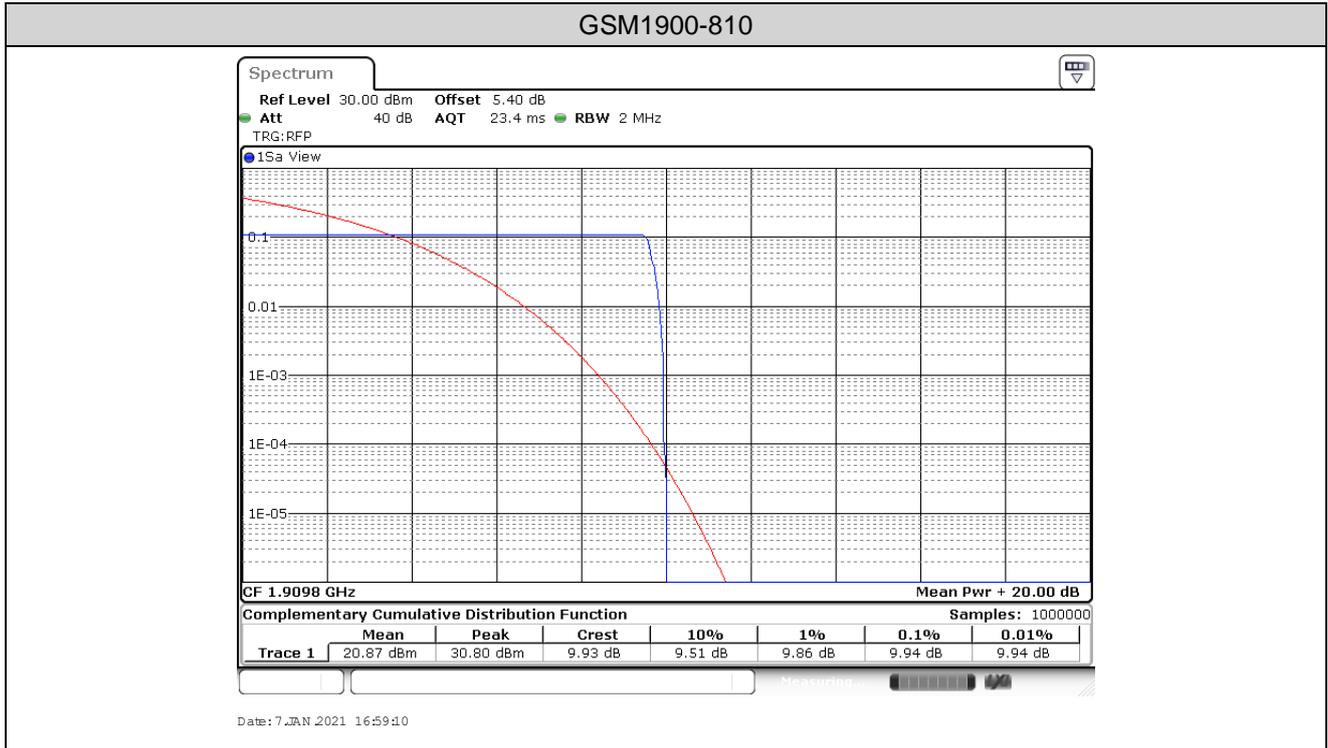




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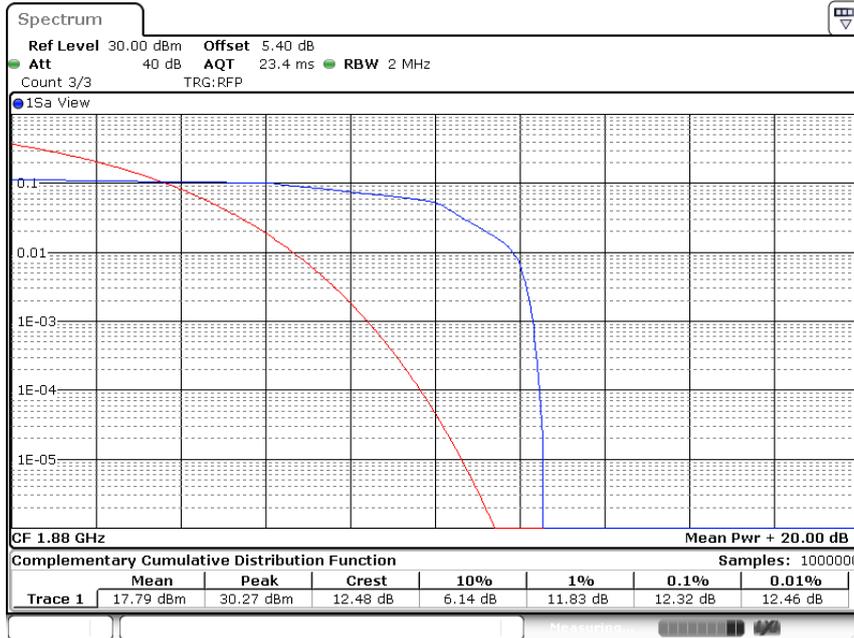
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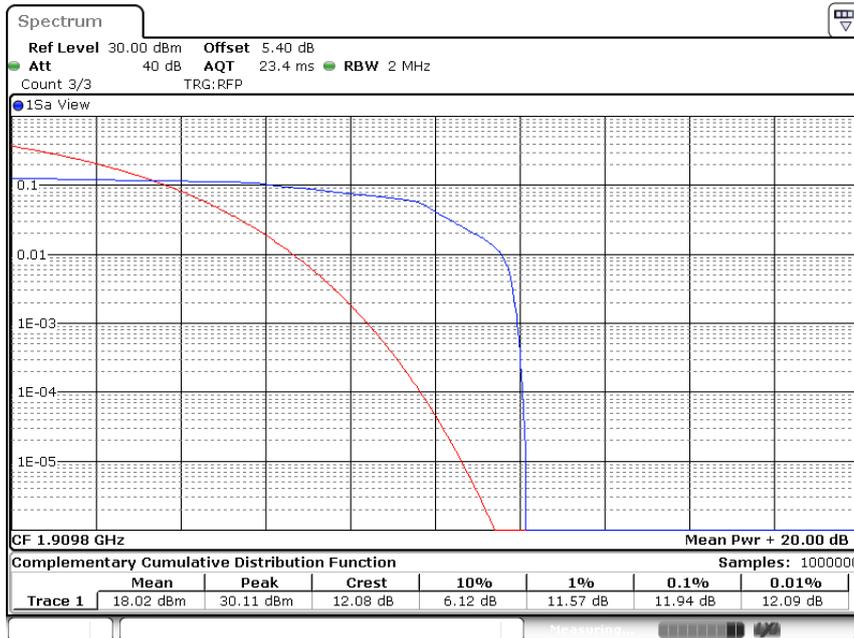
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EGPRS1900-661



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EGPRS1900-810



Date: 7 JAN 2021 17:04:42



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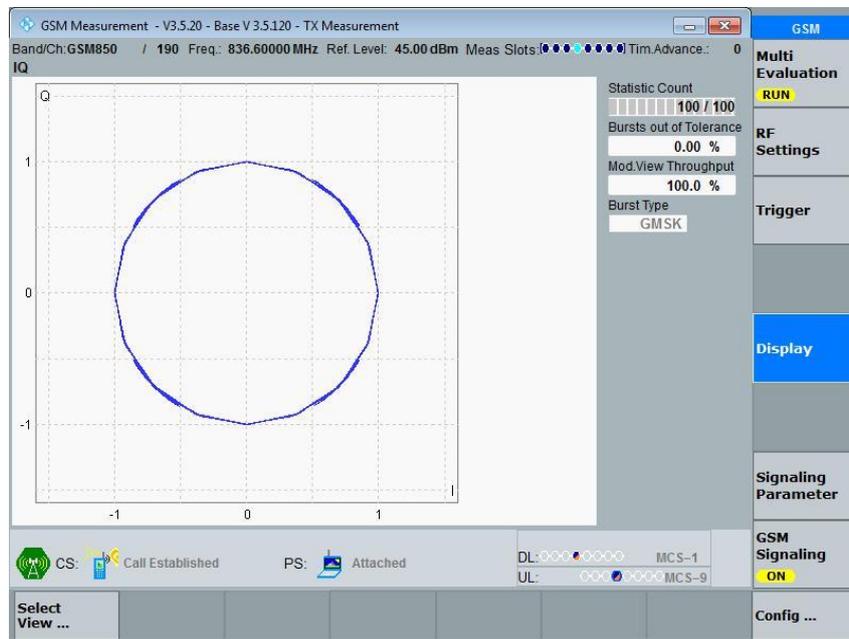
### 3. Modulation Characteristics

#### 3.1. For GSM

##### 3.1.1. Test Band = GSM 850

##### 3.1.1.1. Test Mode = GSM/TM1

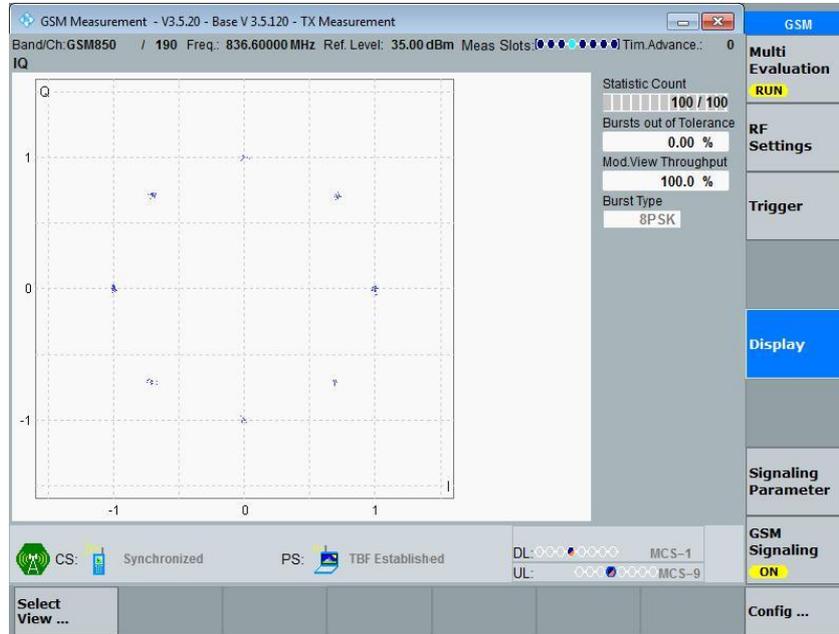
##### 3.1.1.1.1. Test Channel = MCH



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**3.1.1.2. Test Mode = GSM/TM2**

**3.1.1.2.1. Test Channel = MCH**

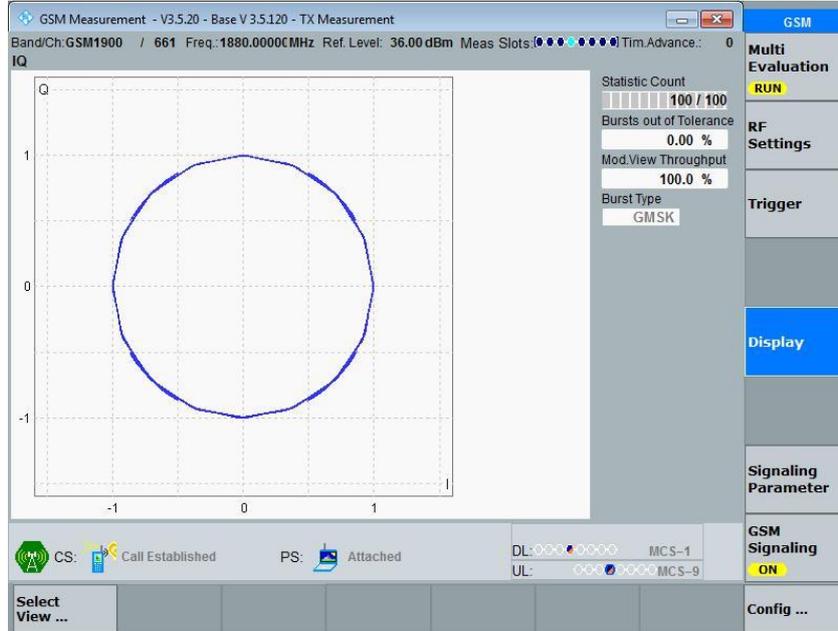


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**3.1.2. Test Band = GSM 1900**

**3.1.2.1. Test Mode = GSM/TM1**

**3.1.2.1.1. Test Channel = MCH**



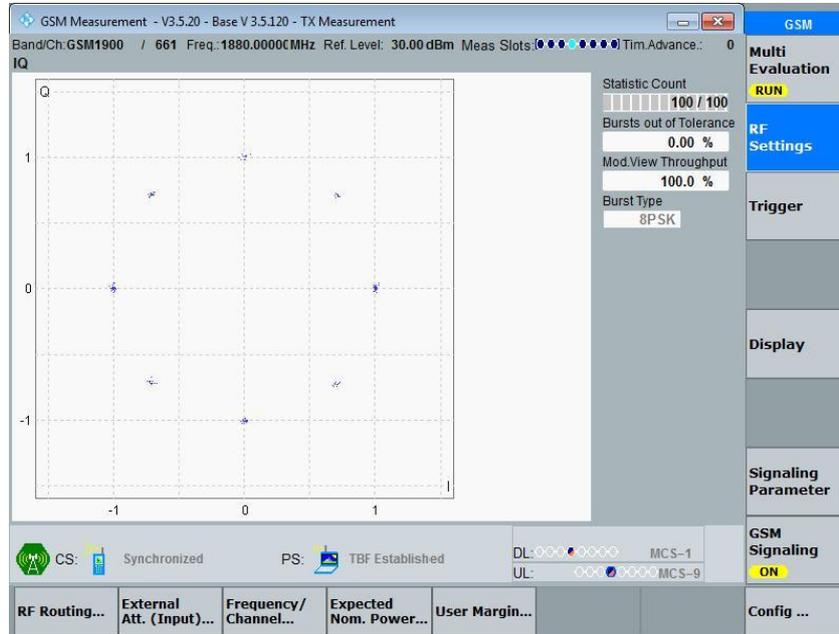
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### 3.1.2.2. Test Mode = GSM/TM2

#### 3.1.2.2.1. Test Channel = MCH



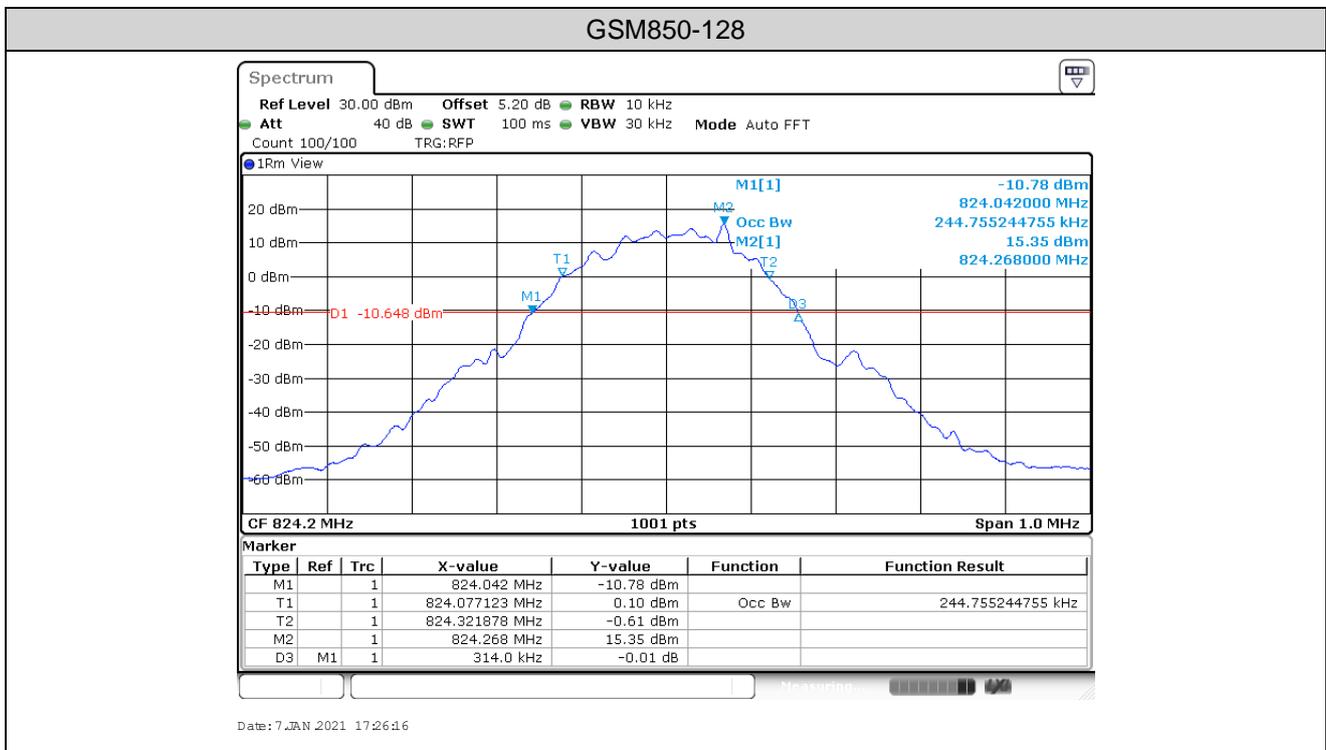
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.245	0.314	---	PASS
GSM850	190	0.245	0.315	---	PASS
GSM850	251	0.245	0.314	---	PASS
EGPRS850	128	0.246	0.318	---	PASS
EGPRS850	190	0.247	0.319	---	PASS
EGPRS850	251	0.246	0.318	---	PASS
GSM1900	512	0.243	0.313	---	PASS
GSM1900	661	0.244	0.314	---	PASS
GSM1900	810	0.244	0.314	---	PASS
EGPRS1900	512	0.244	0.315	---	PASS
EGPRS1900	661	0.244	0.316	---	PASS
EGPRS1900	810	0.244	0.315	---	PASS

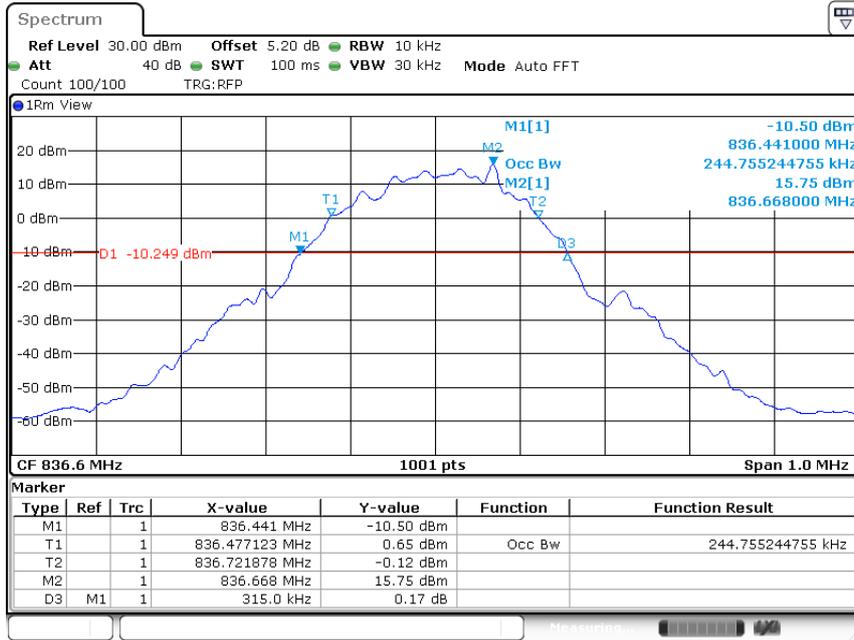
### 4.2. Test Plots



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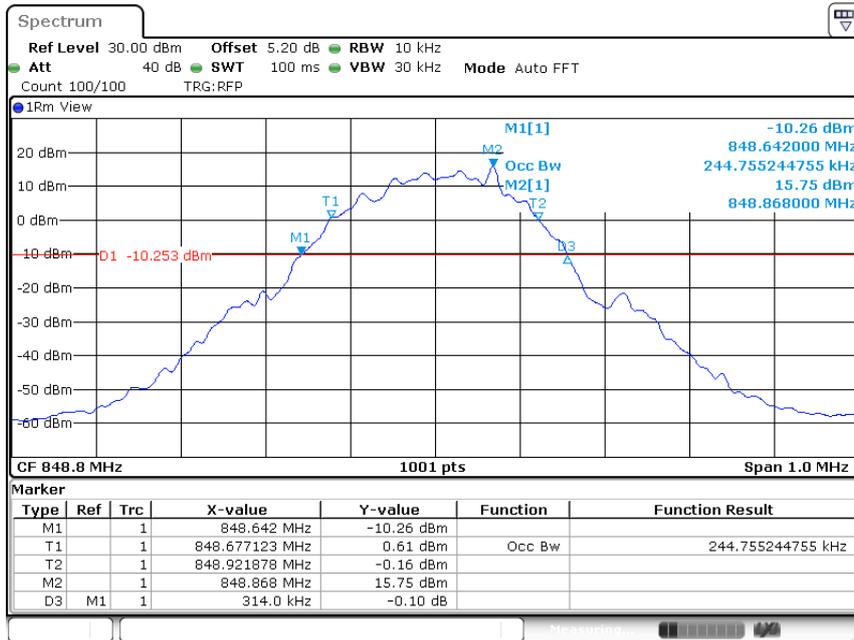
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**GSM850-190**



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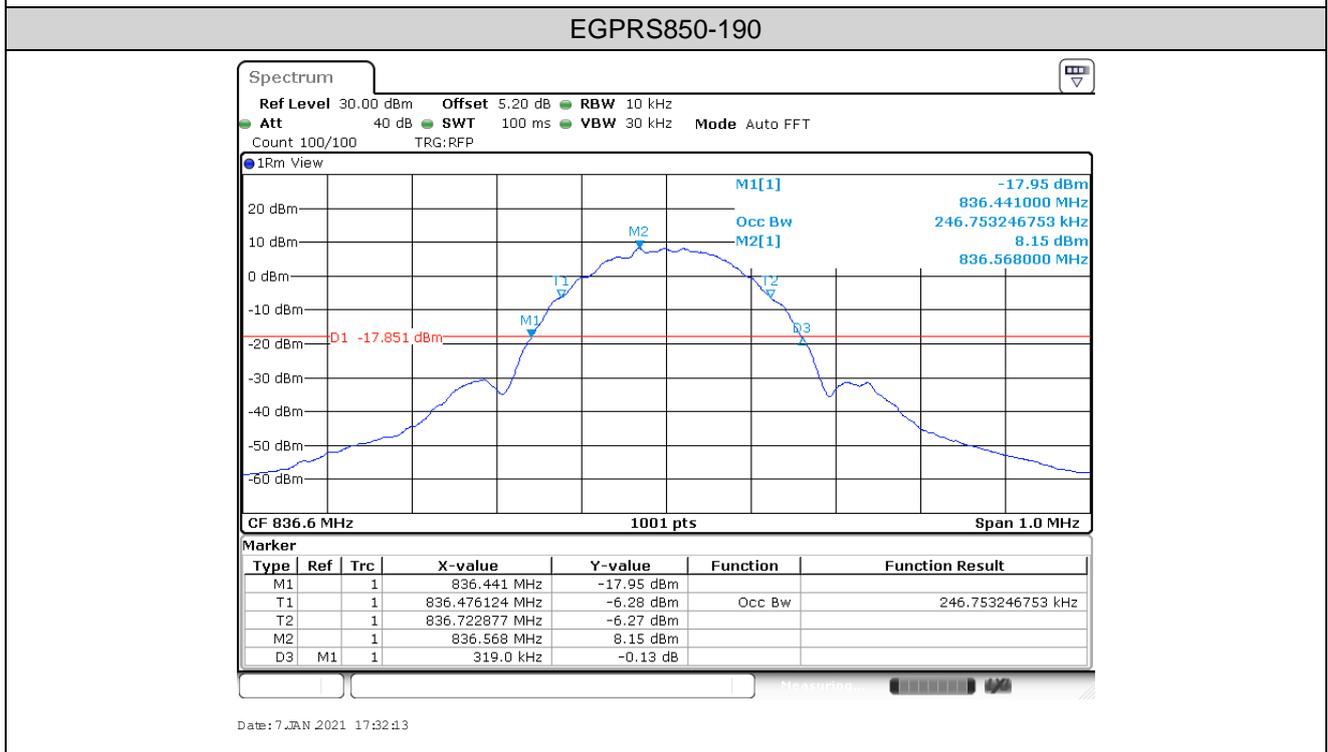
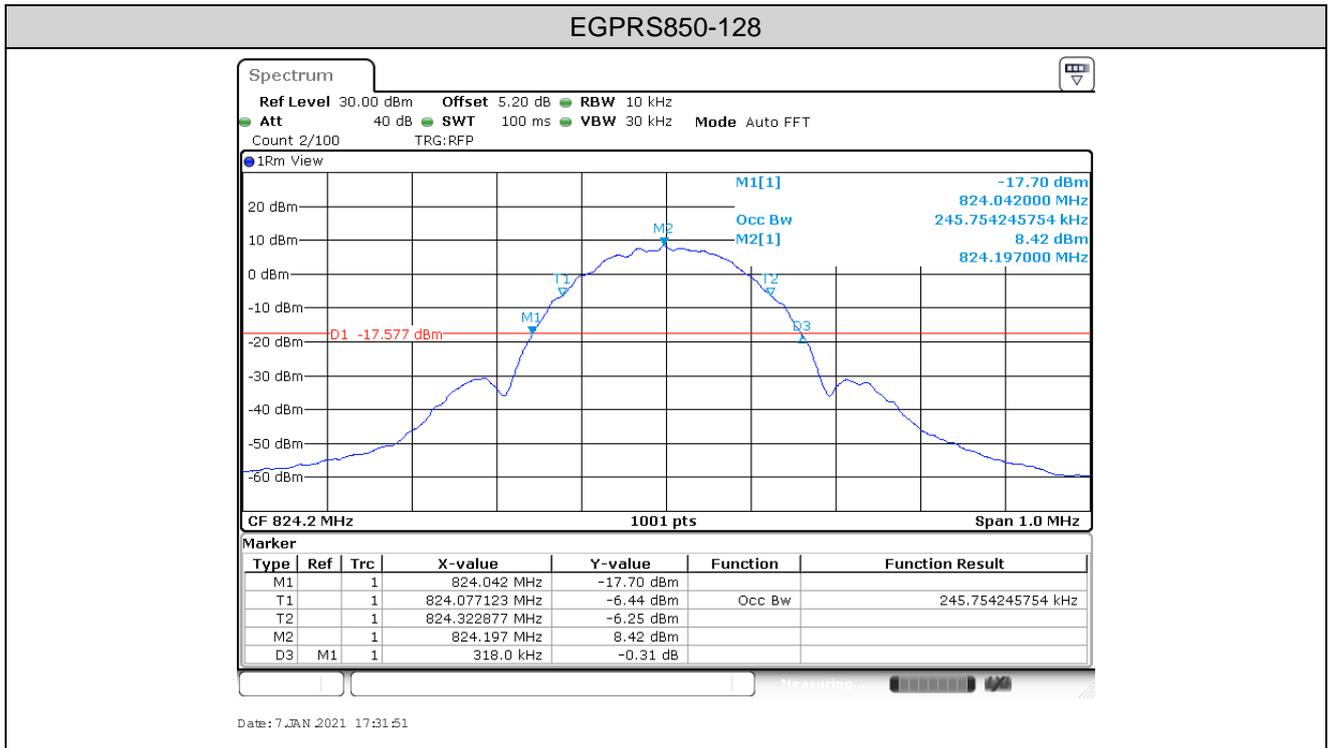
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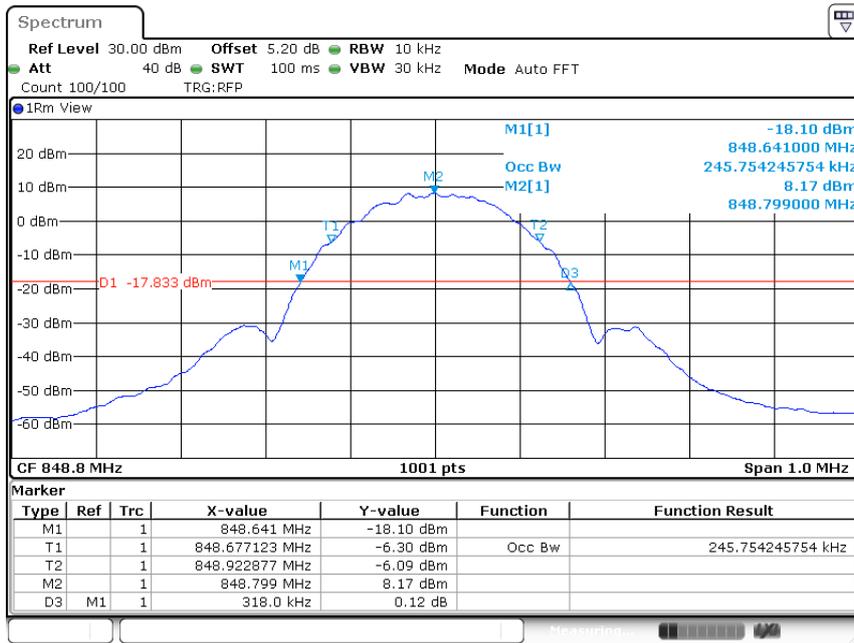


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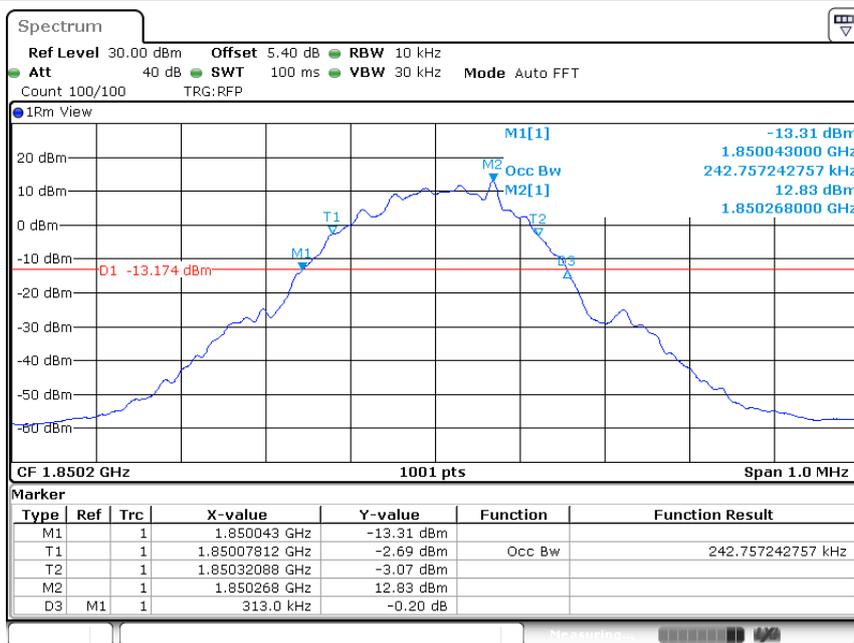
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**GSM1900-512**



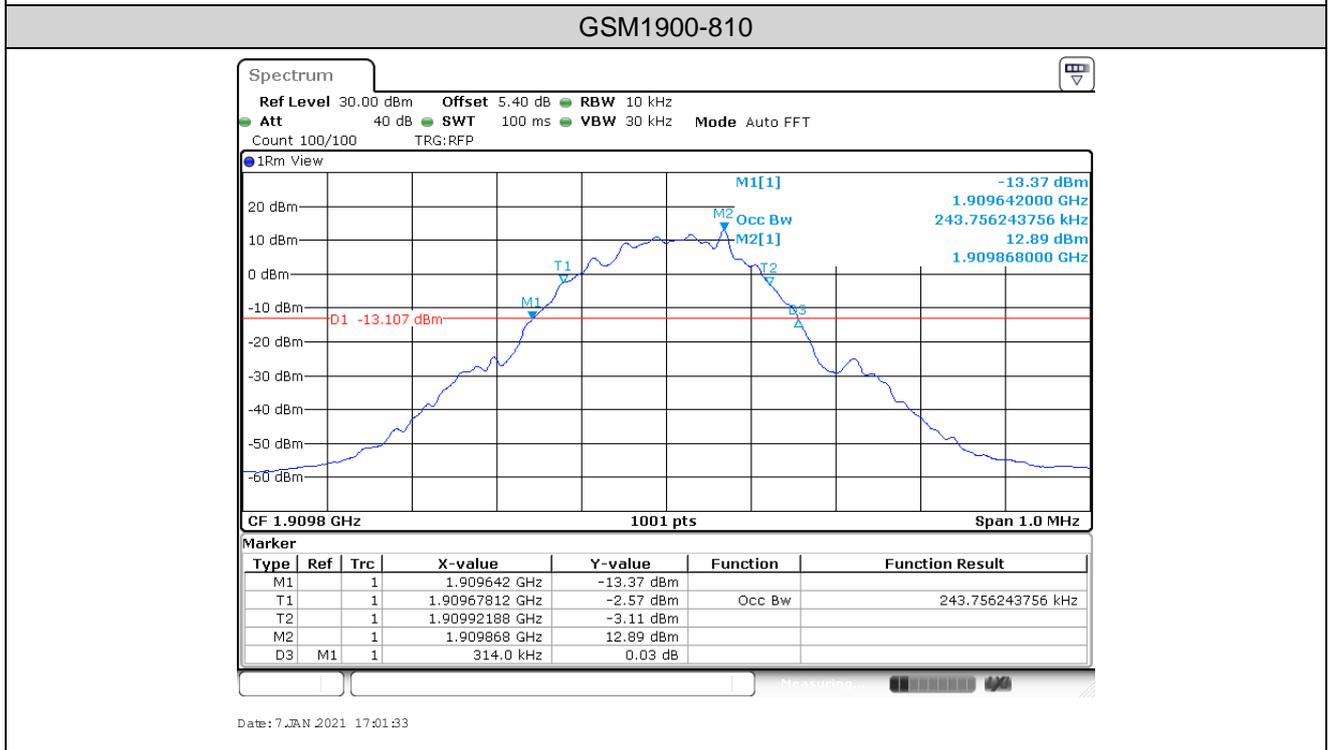
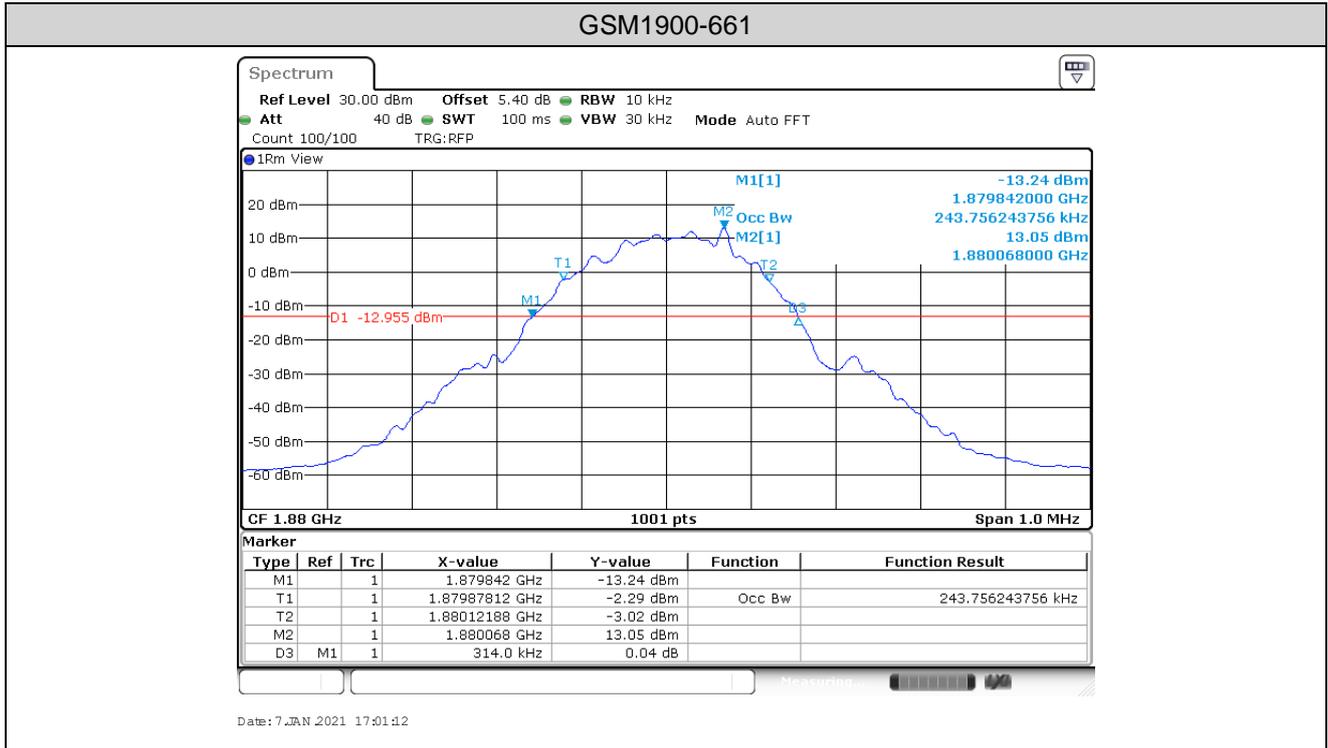
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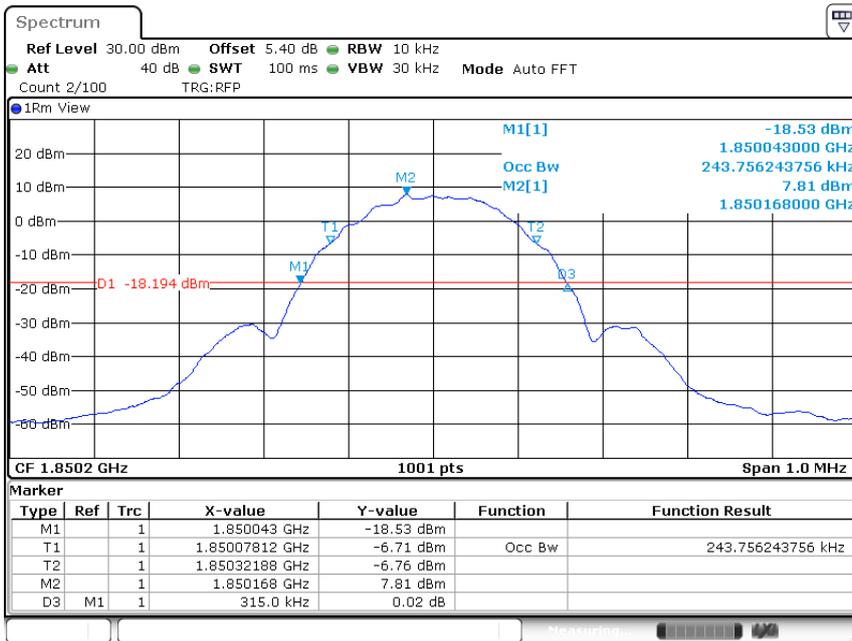


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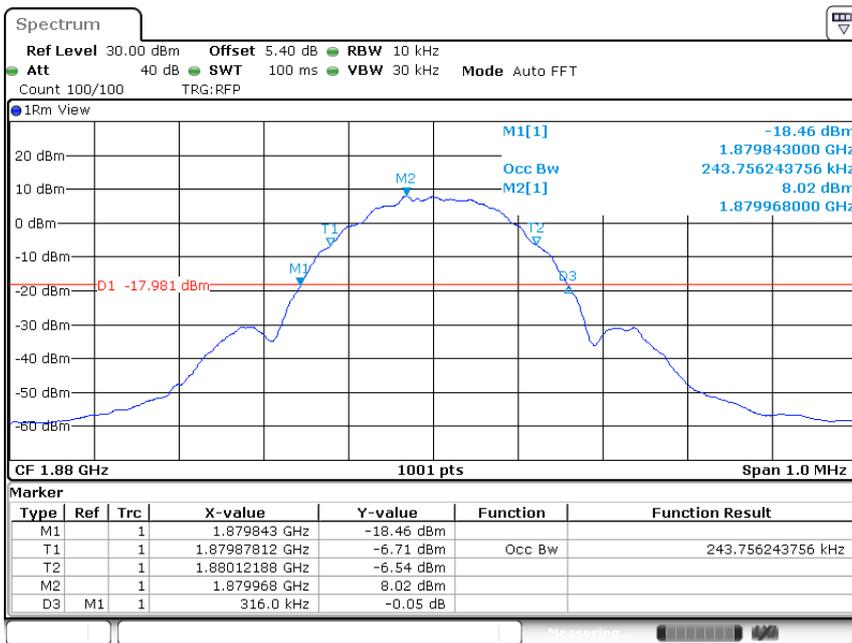
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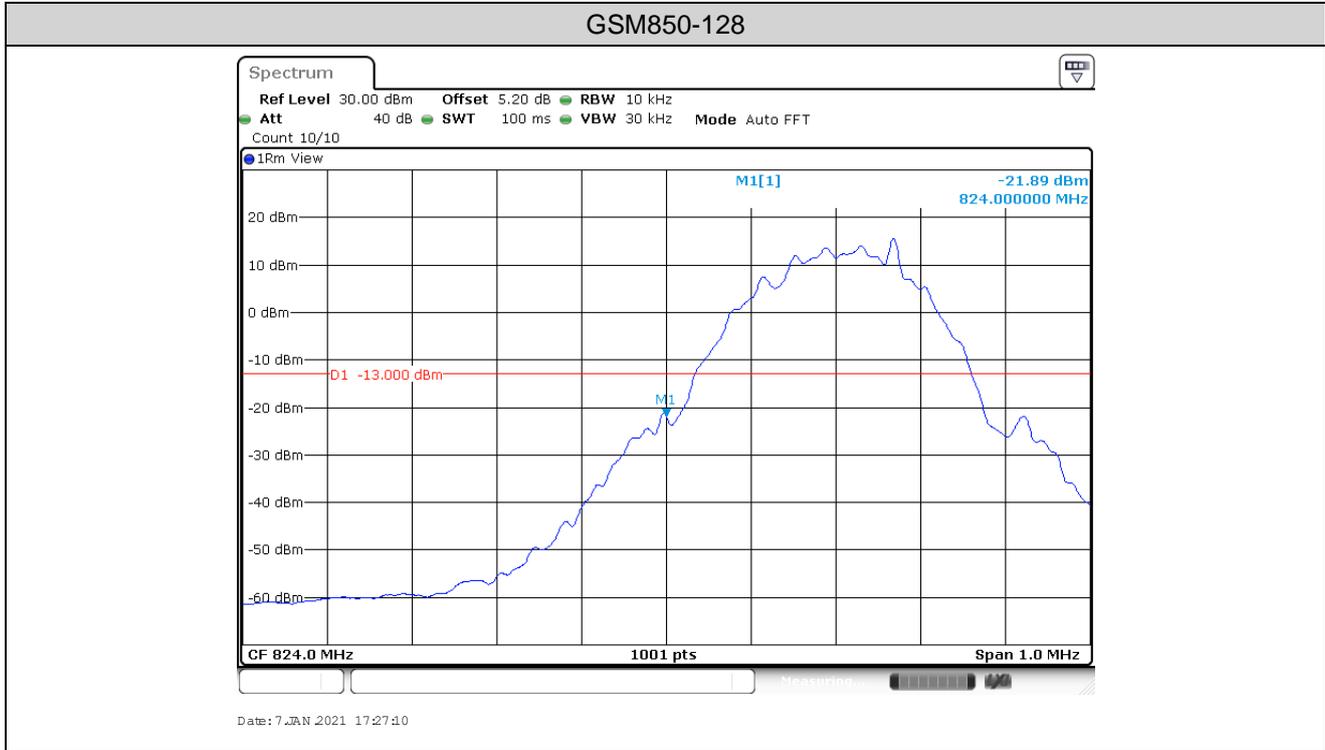
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## 5. Band Edge Compliance

### 5.1. Test Plots



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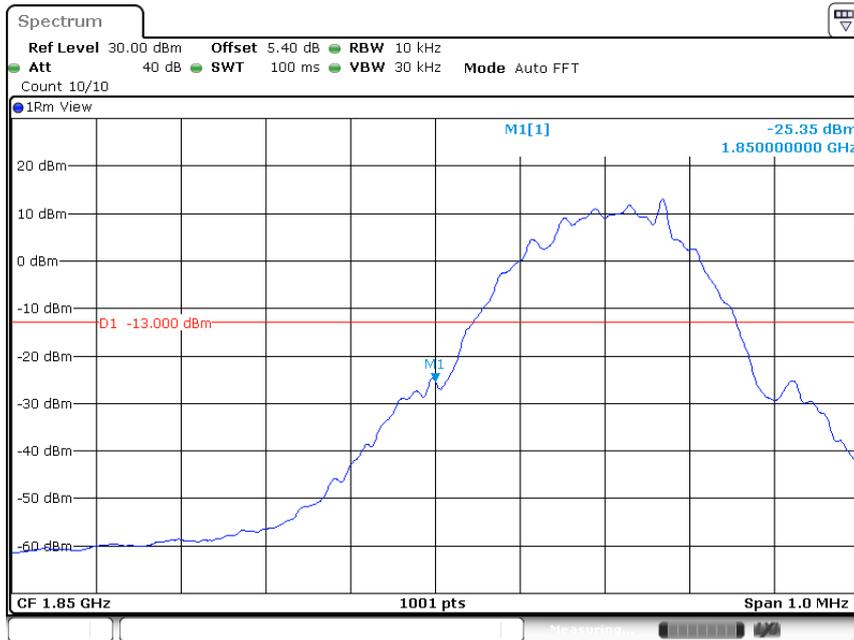
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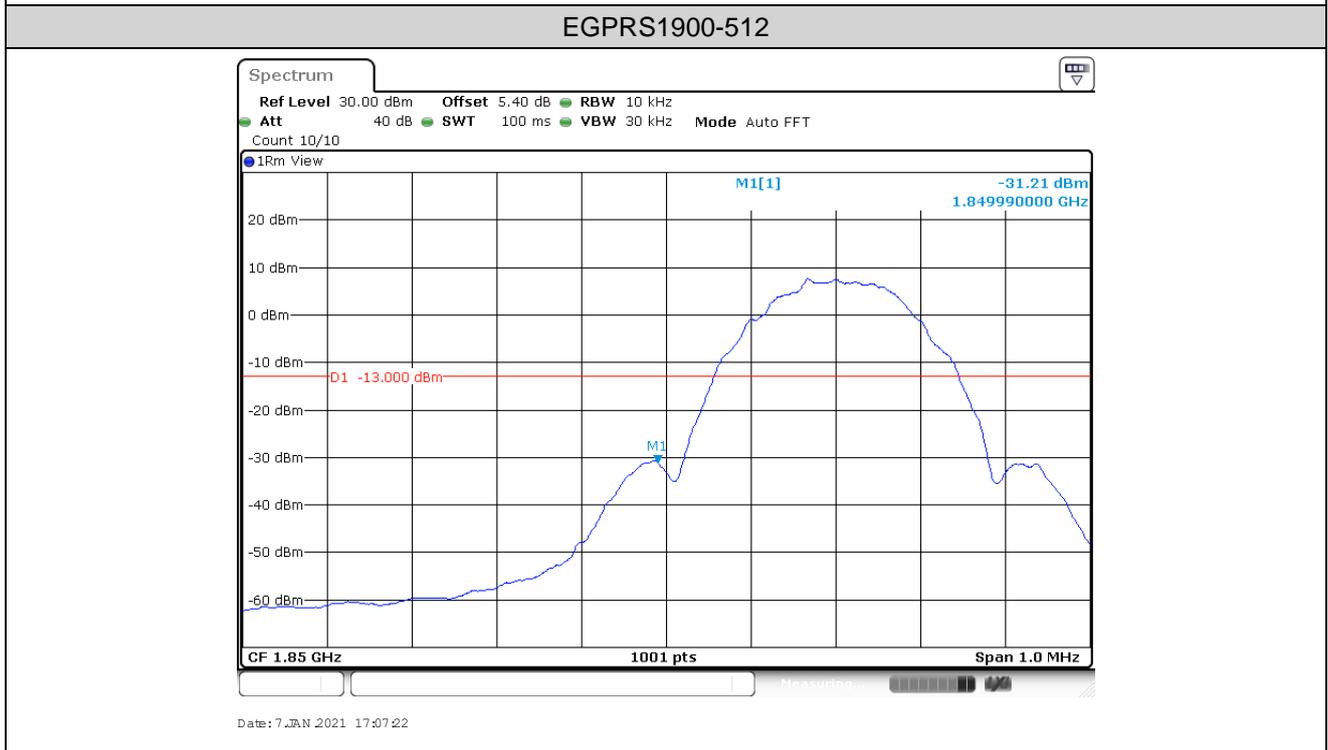
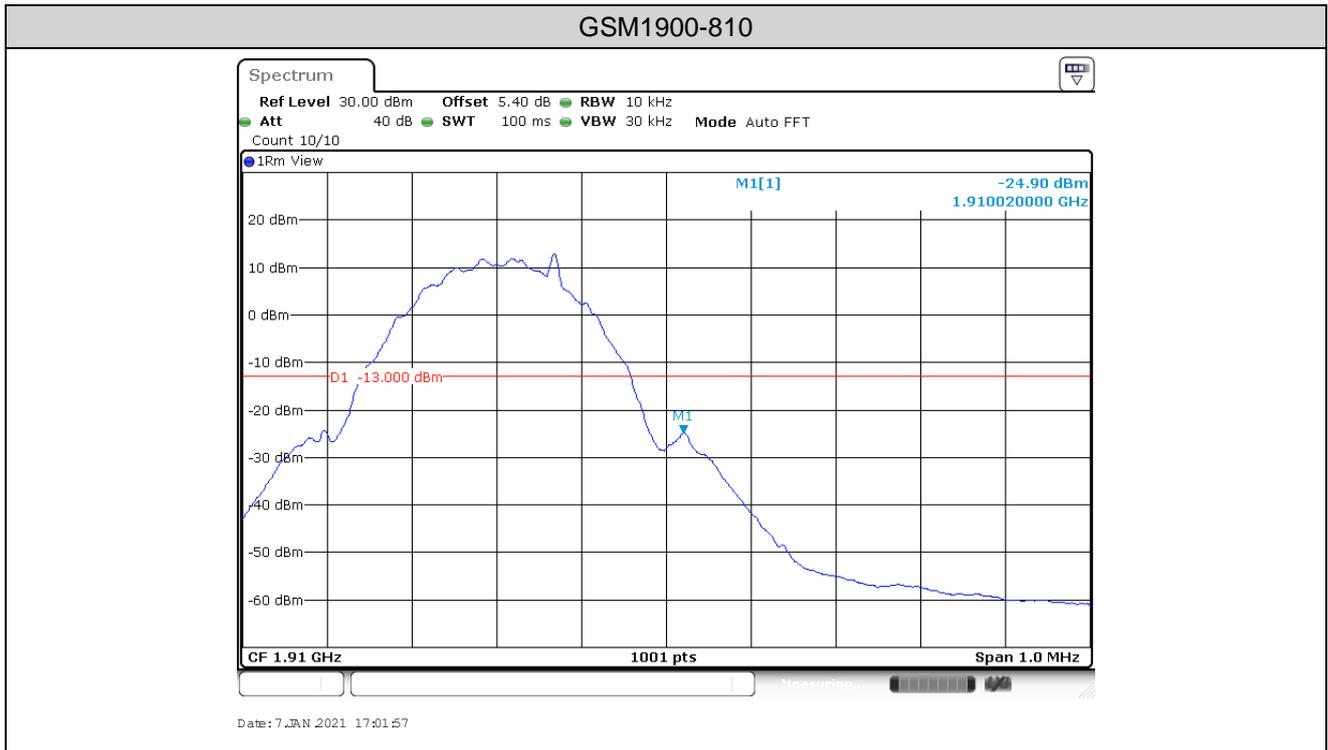
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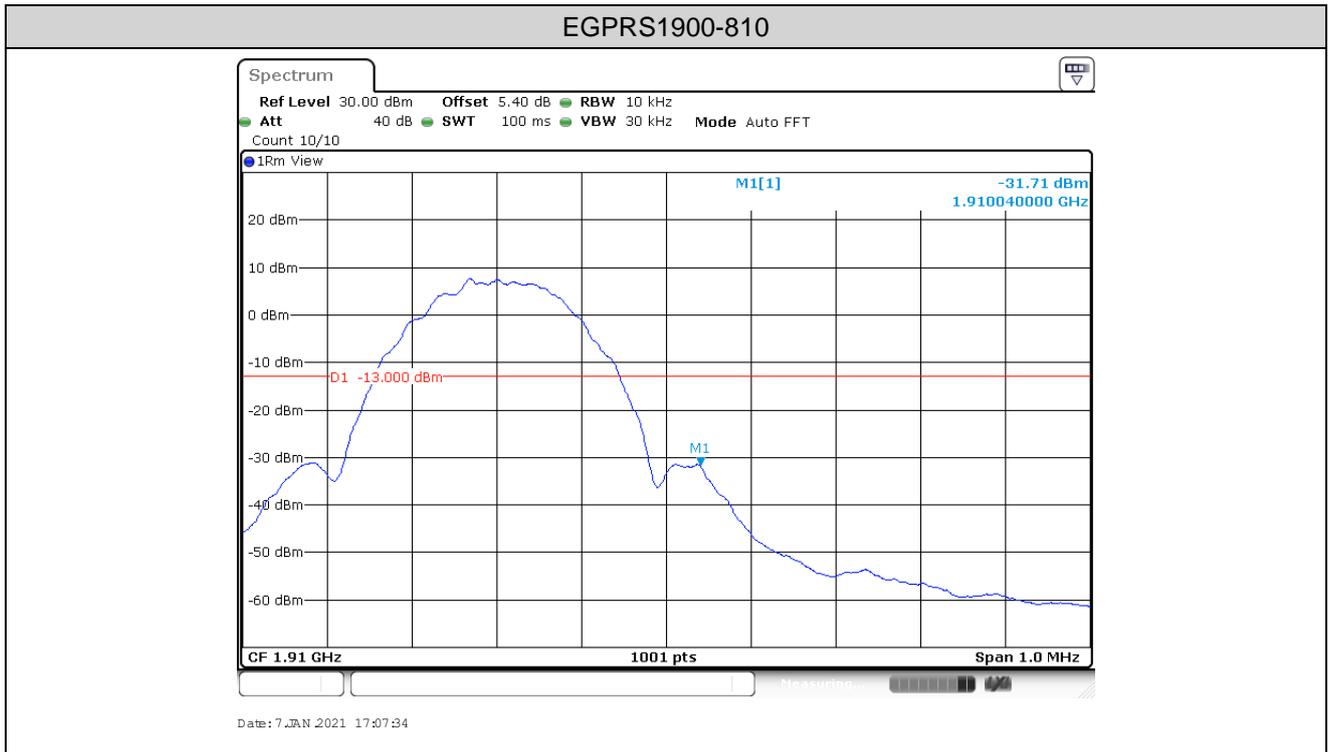


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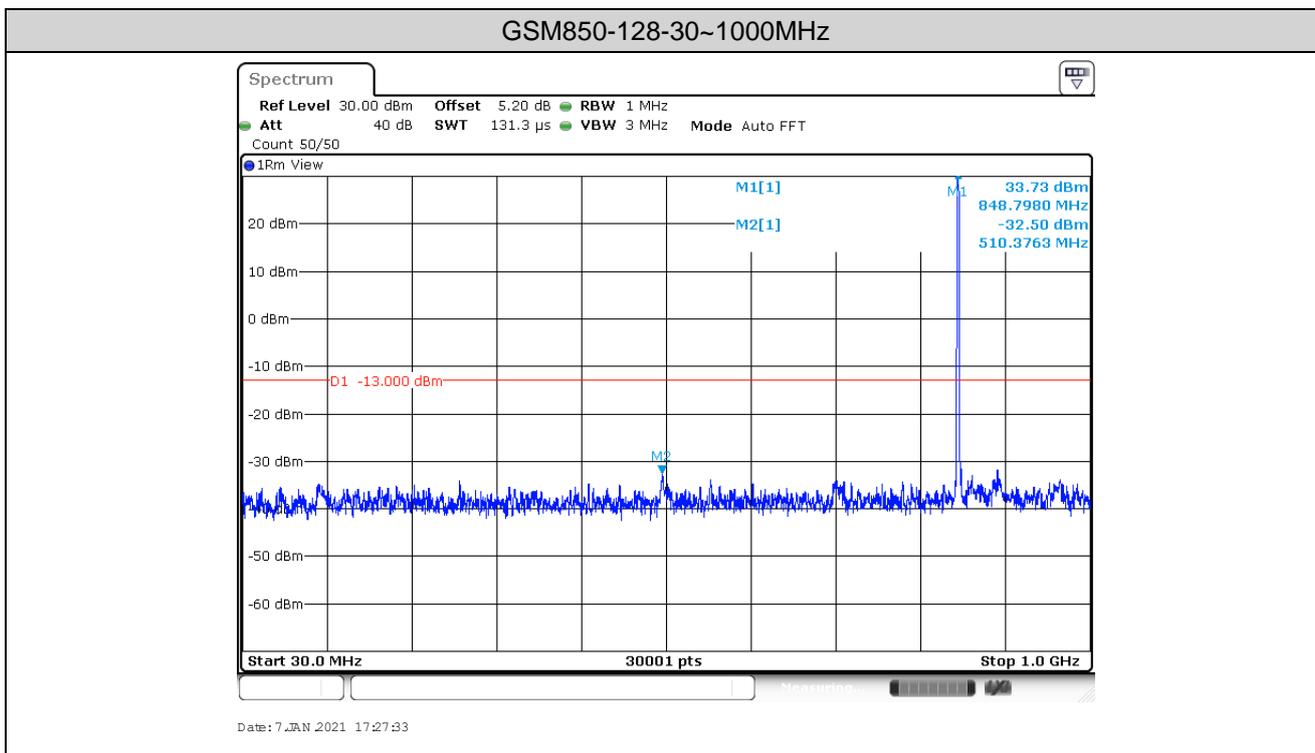
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## 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots



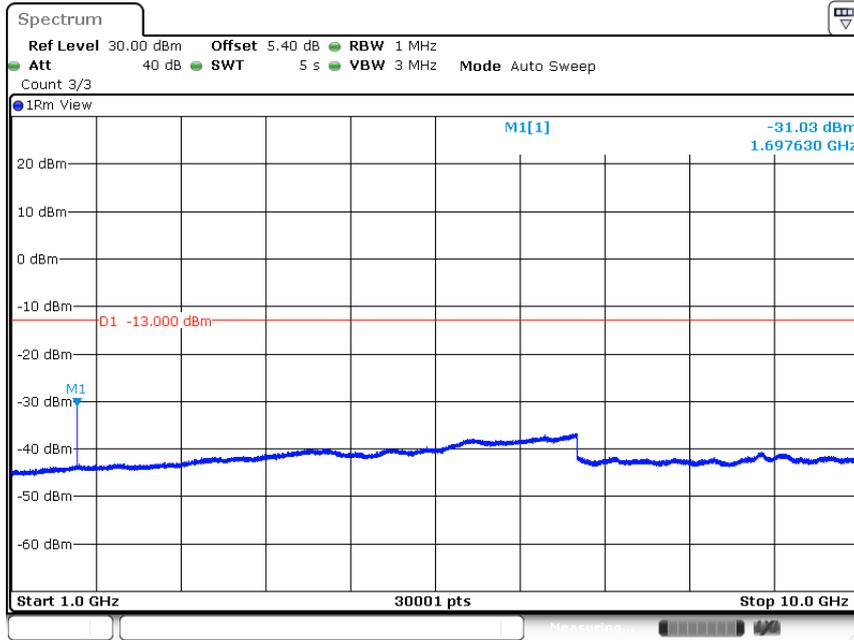
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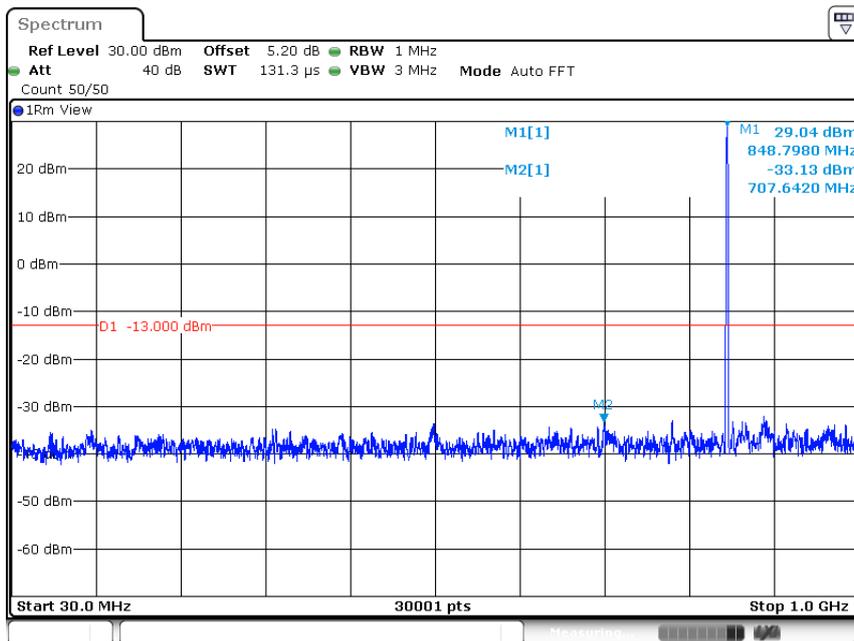
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中国·深圳·科技园中区M-10栋一号厂房    邮编: 518057    t (86-755) 26012053    f (86-755) 26710594    sgs.china@sgs.com

**GSM850-128-1000~10000MHz**



Date: 7 JAN 2021 17:27:57

**GSM850-190-30~1000MHz**

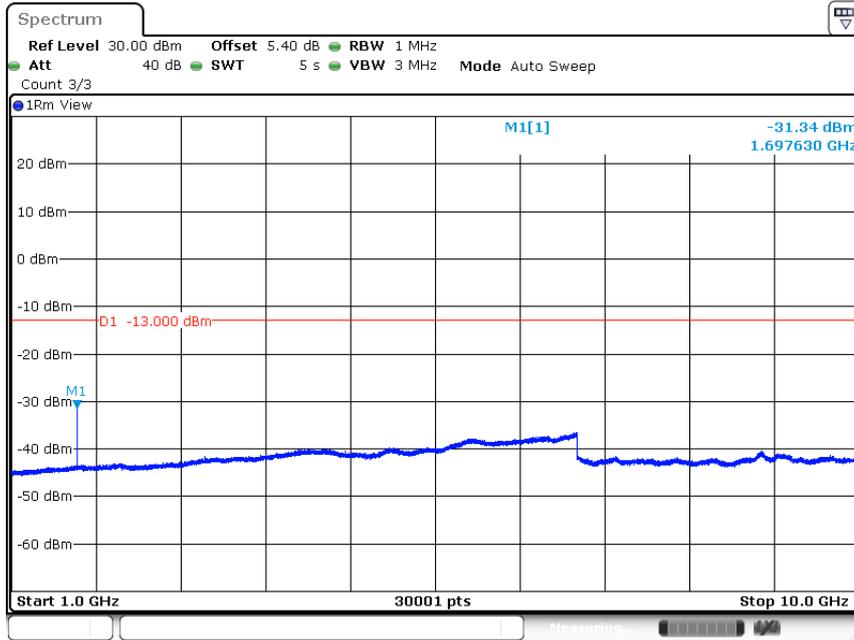


Date: 7 JAN 2021 17:28:08



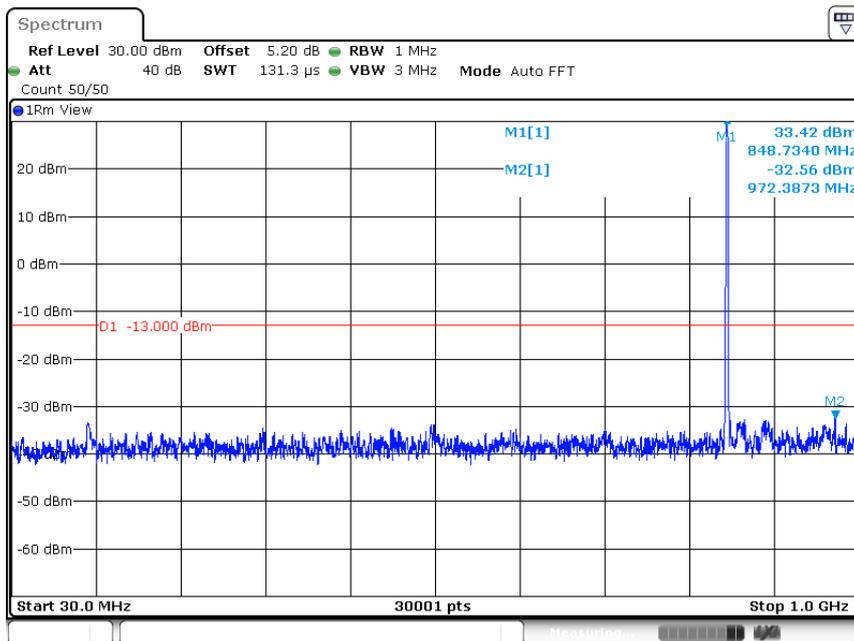
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**GSM850-190-1000~10000MHz**



Date: 7 JAN 2021 17:28:33

**GSM850-251-30~1000MHz**

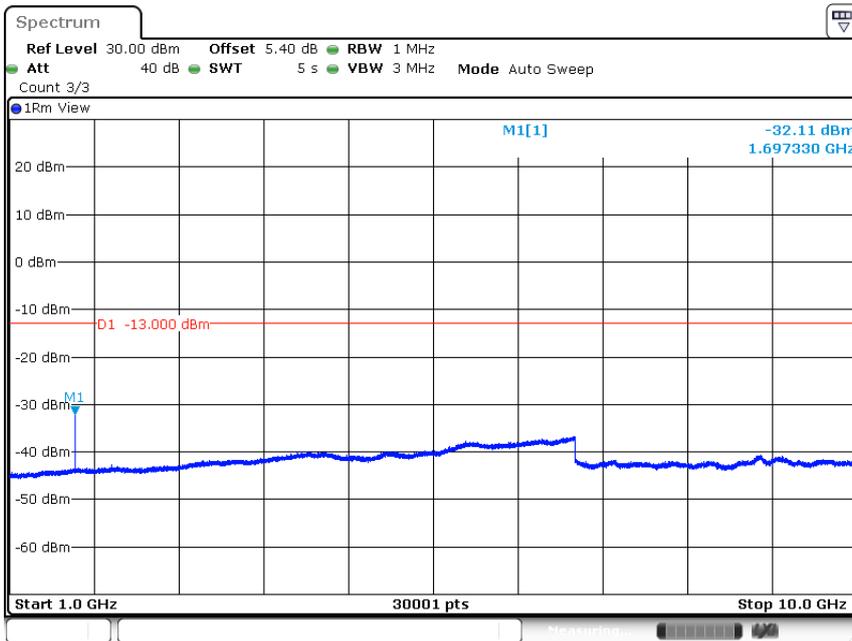


Date: 7 JAN 2021 17:28:44



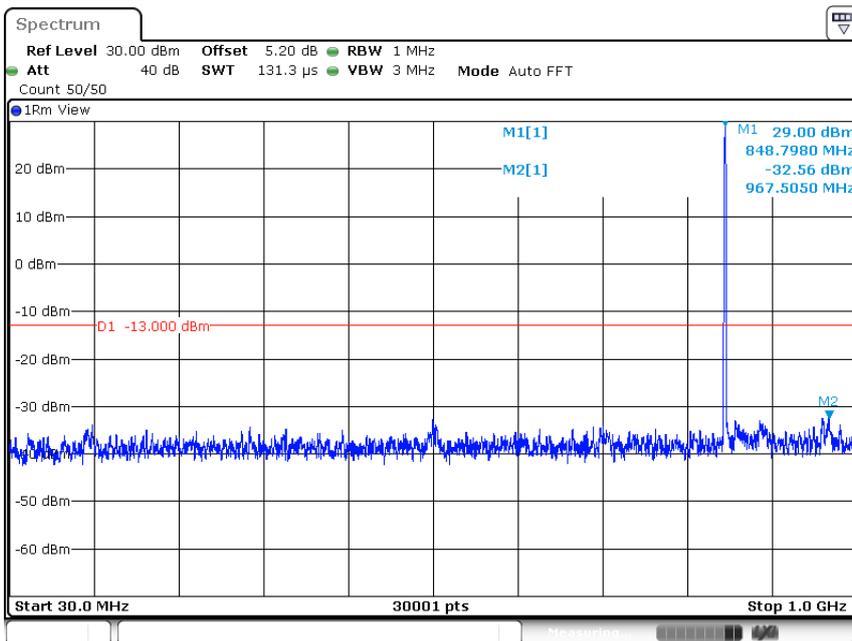
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**GSM850-251-1000~10000MHz**



Date: 7 JAN 2021 17:29:08

**EGPRS850-128-30~1000MHz**

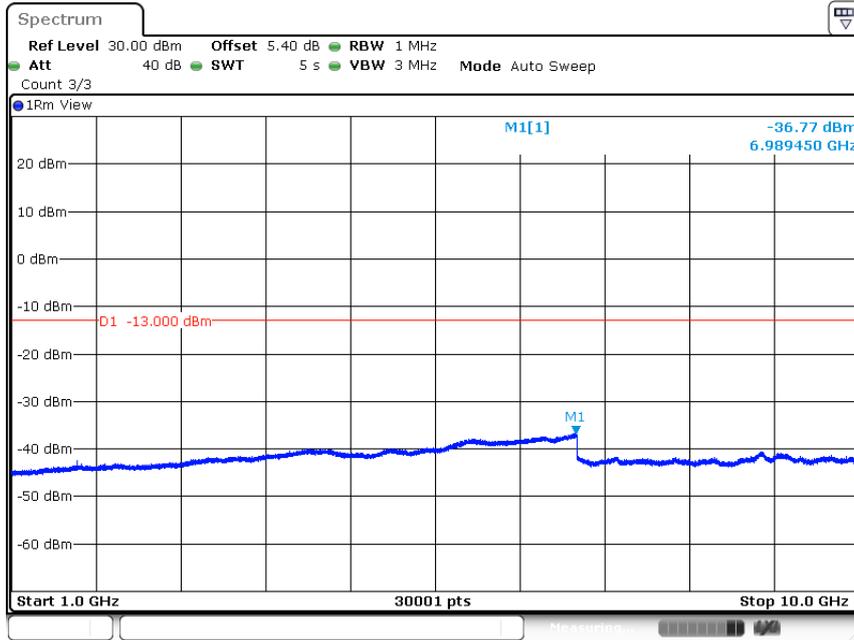


Date: 7 JAN 2021 17:33:11



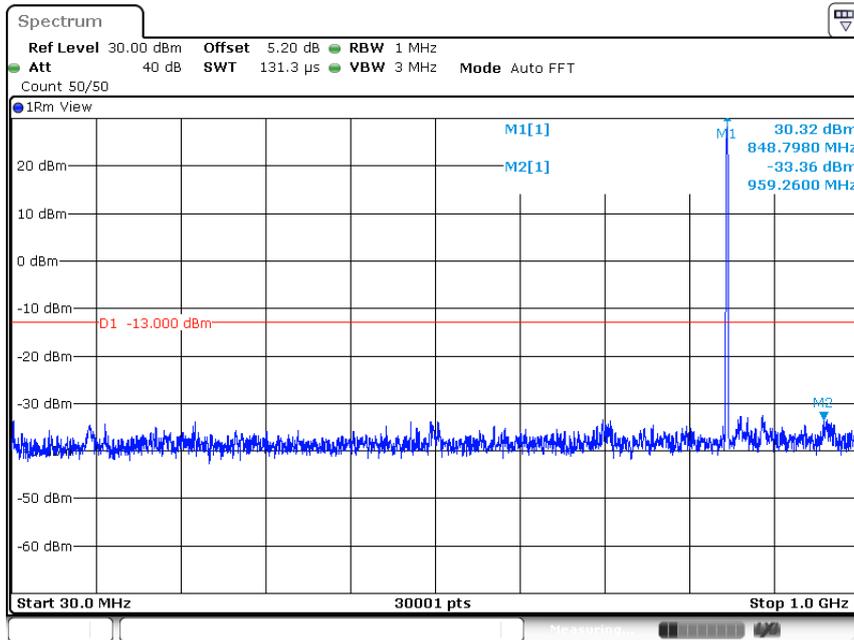
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**EGPRS850-128-1000~10000MHz**



Date: 7 JAN 2021 17:33:35

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

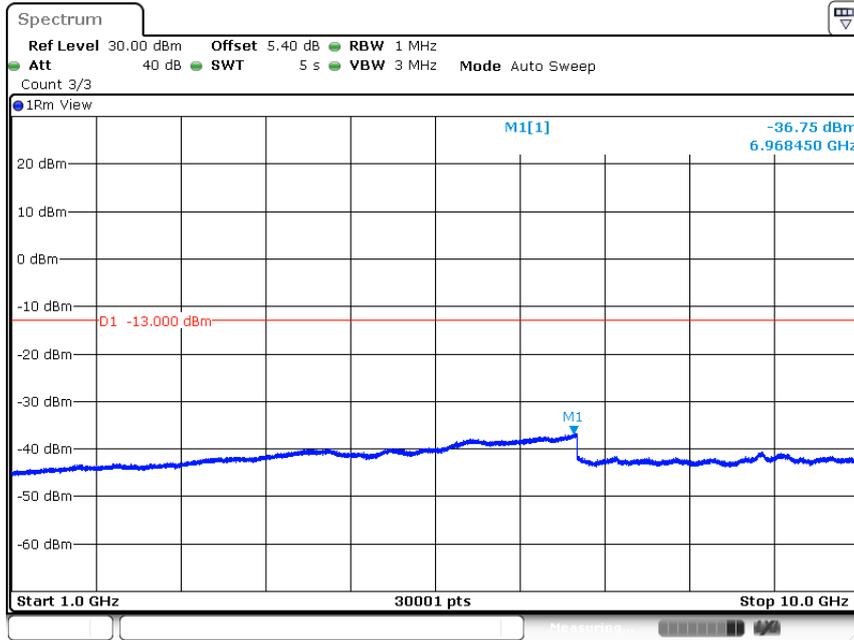


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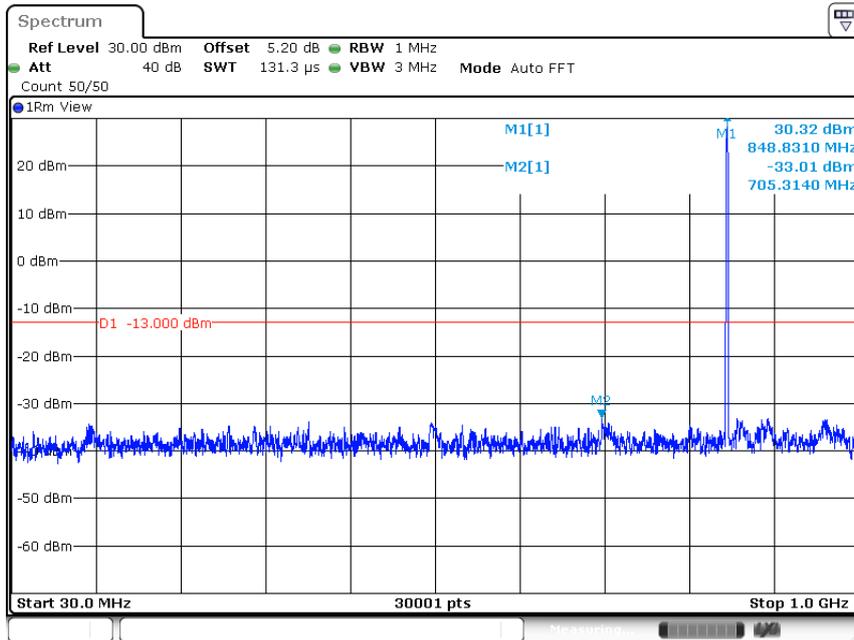
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**EGPRS850-190-1000~10000MHz**



Date: 7 JAN 2021 17:34:14

**EGPRS850-251-30~1000MHz**

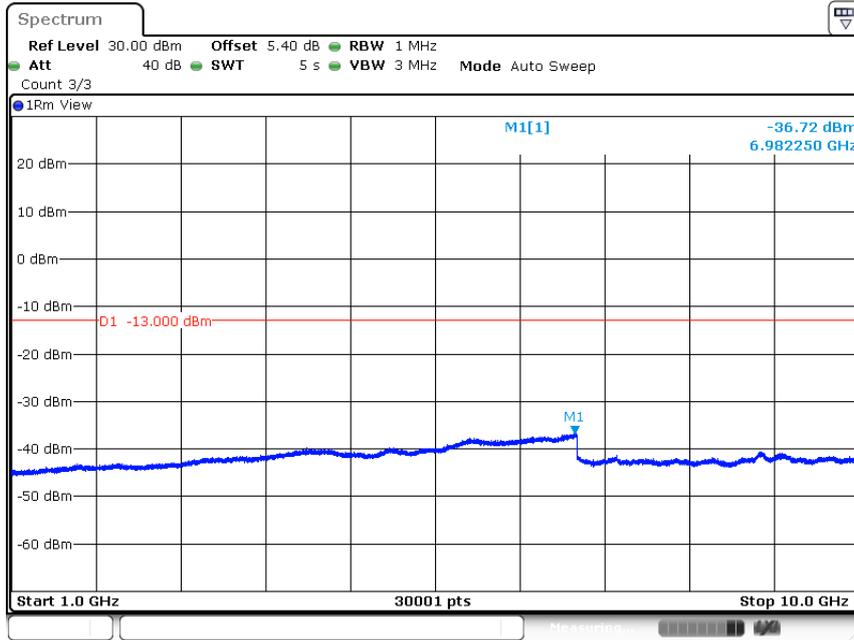


Date: 7 JAN 2021 17:34:37



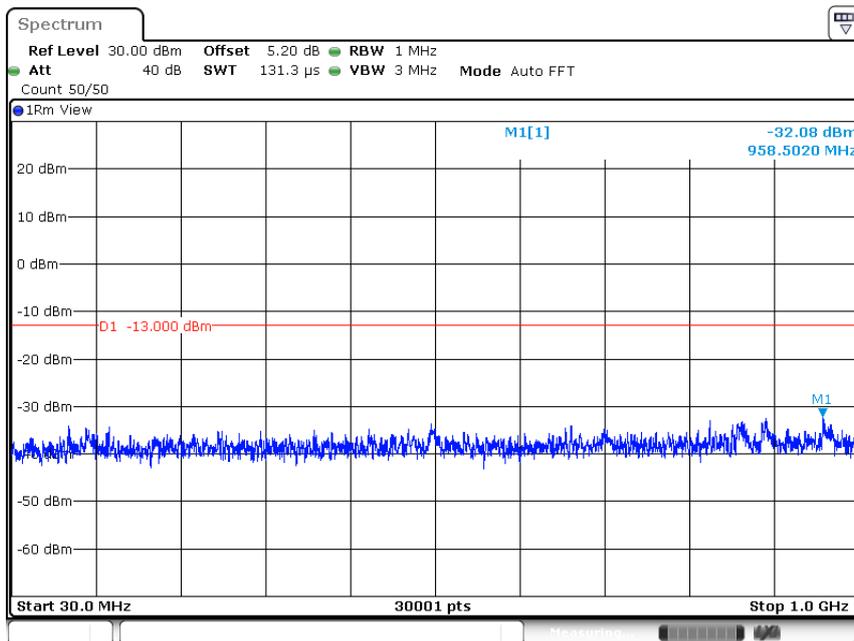
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**EGPRS850-251-1000~10000MHz**



Date: 7 JAN 2021 17:35:02

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

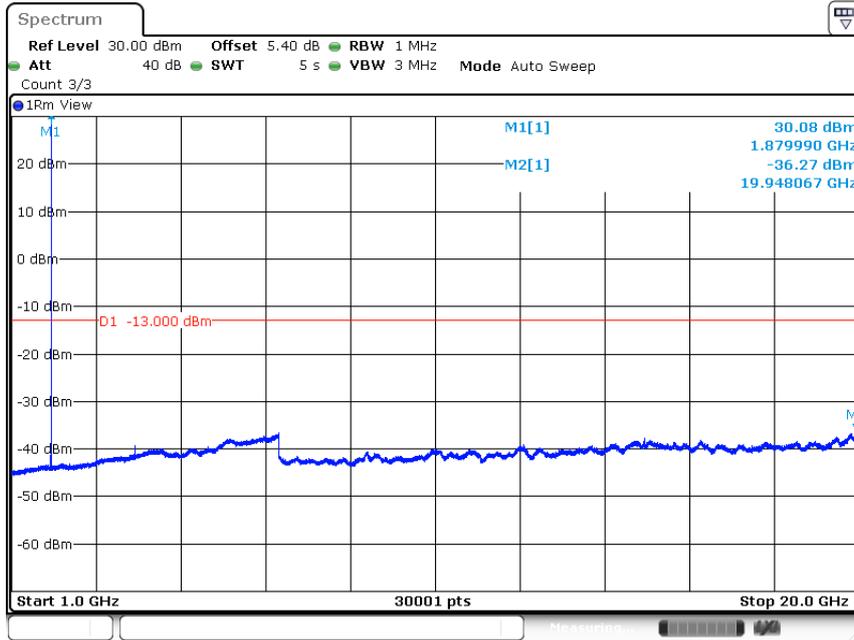


Date: 7 JAN 2021 17:16:25



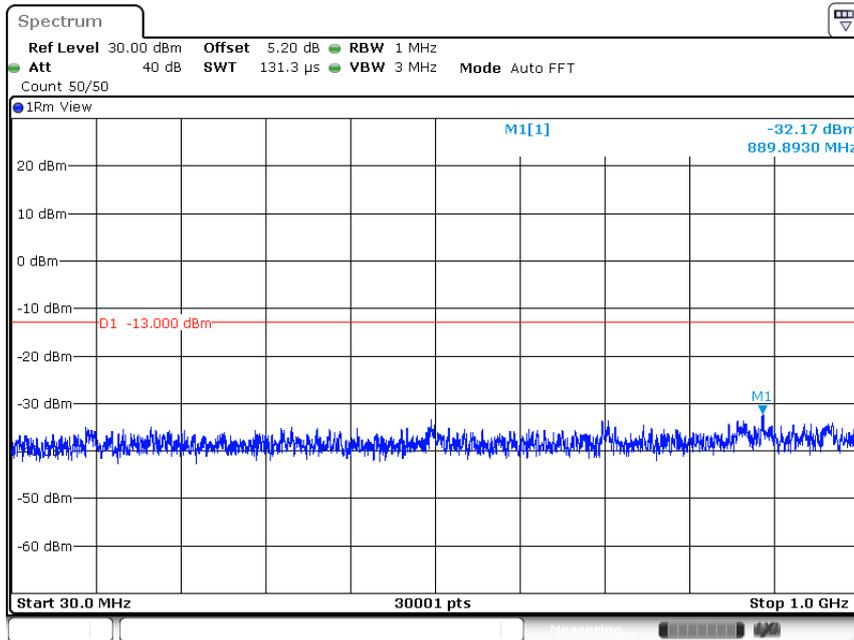
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**GSM1900-512-1000~20000MHz**



Date: 7 JAN 2021 17:16:50

**GSM1900-661-30~1000MHz**

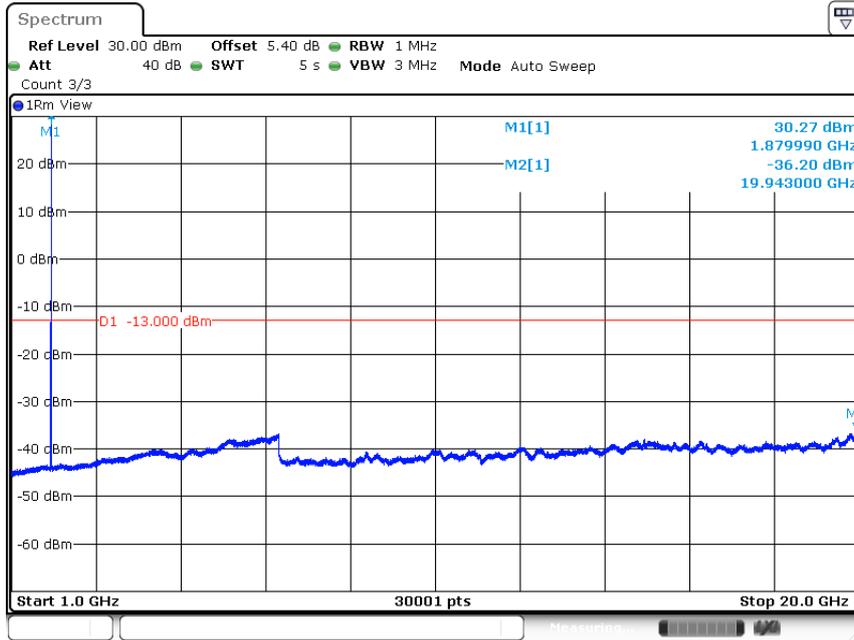


Date: 7 JAN 2021 17:17:00



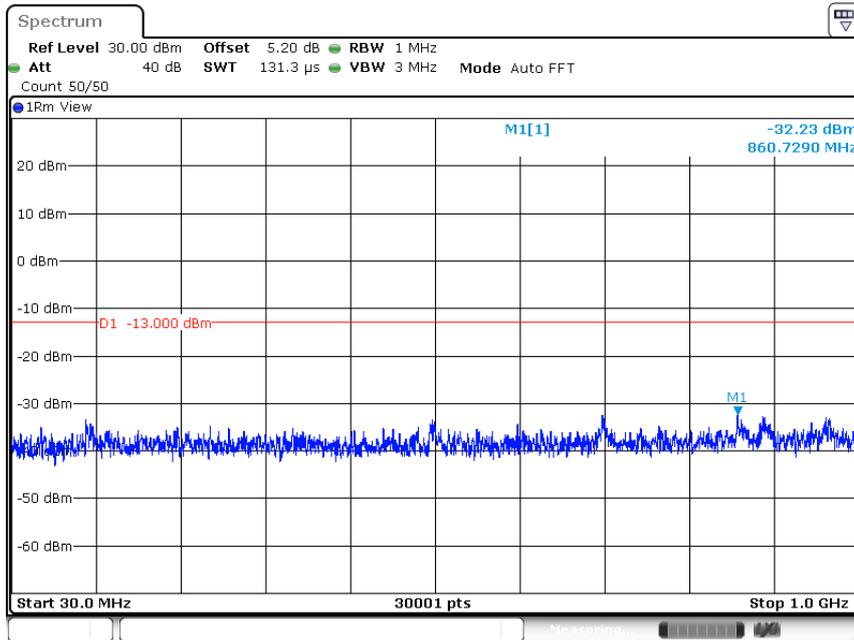
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**GSM1900-661-1000~20000MHz**



Date: 7 JAN 2021 17:18:06

**GSM1900-810-30~1000MHz**



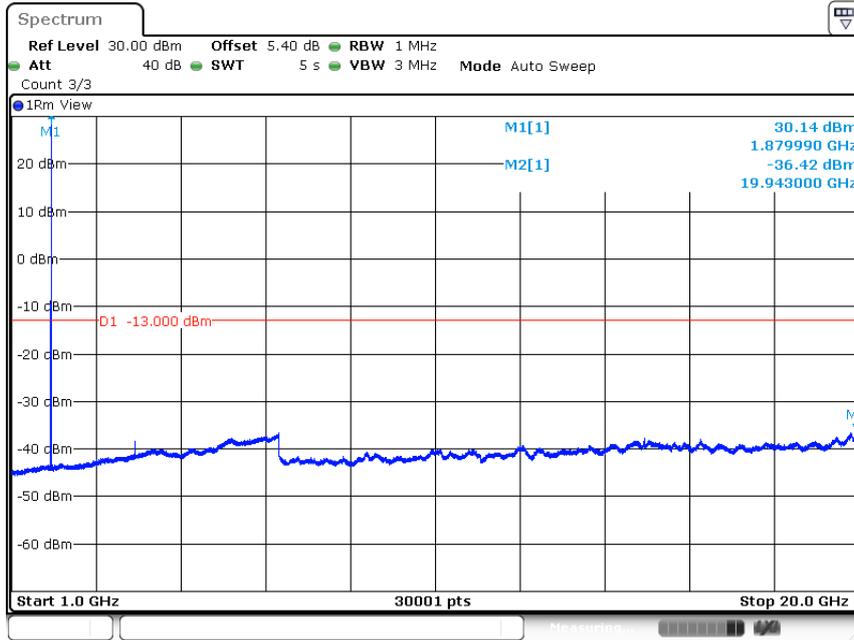
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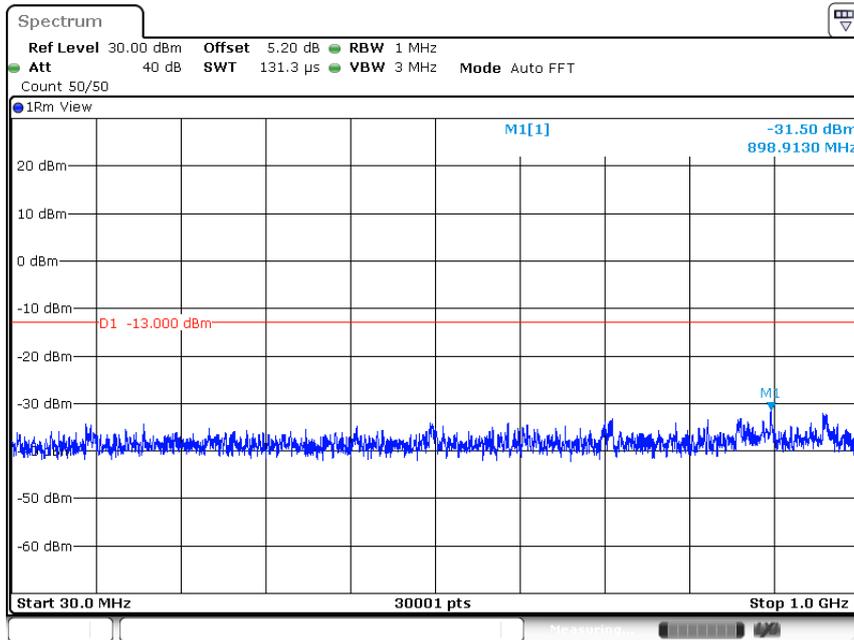
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**GSM1900-810-1000~20000MHz**



Date: 7 JAN 2021 17:22:01

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

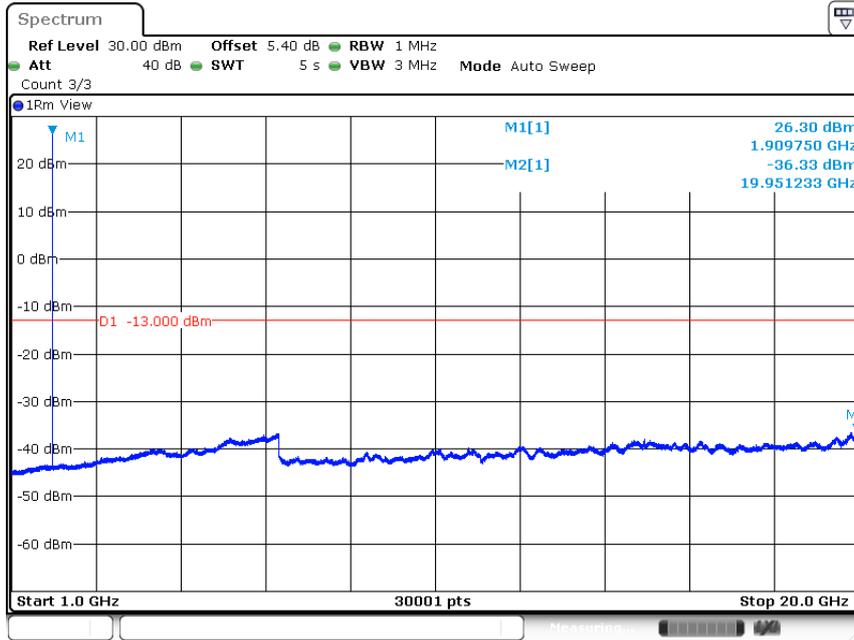


Date: 7 JAN 2021 17:07:46



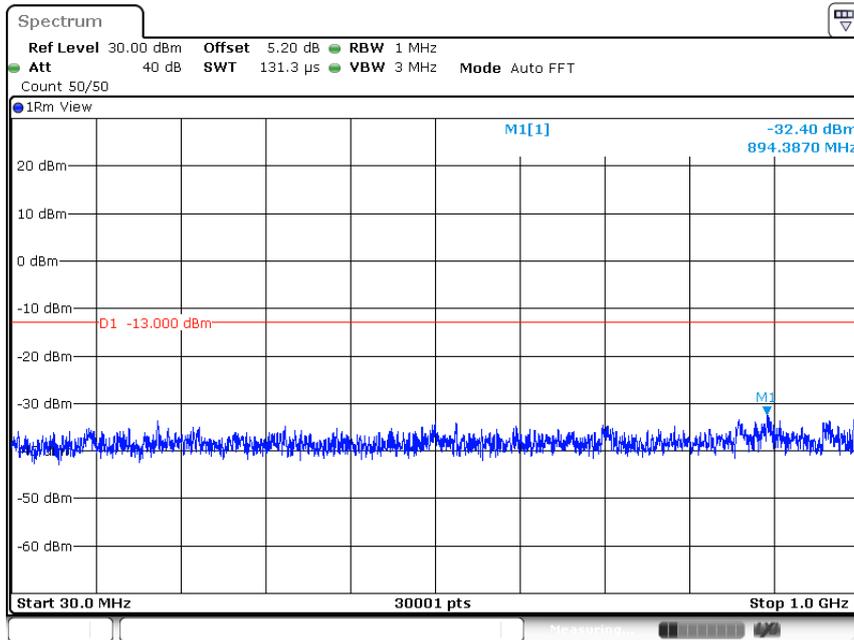
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**EGPRS1900-512-1000~20000MHz**



Date: 7 JAN 2021 17:08:11

**EGPRS1900-661-30~1000MHz**



Date: 7 JAN 2021 17:08:21

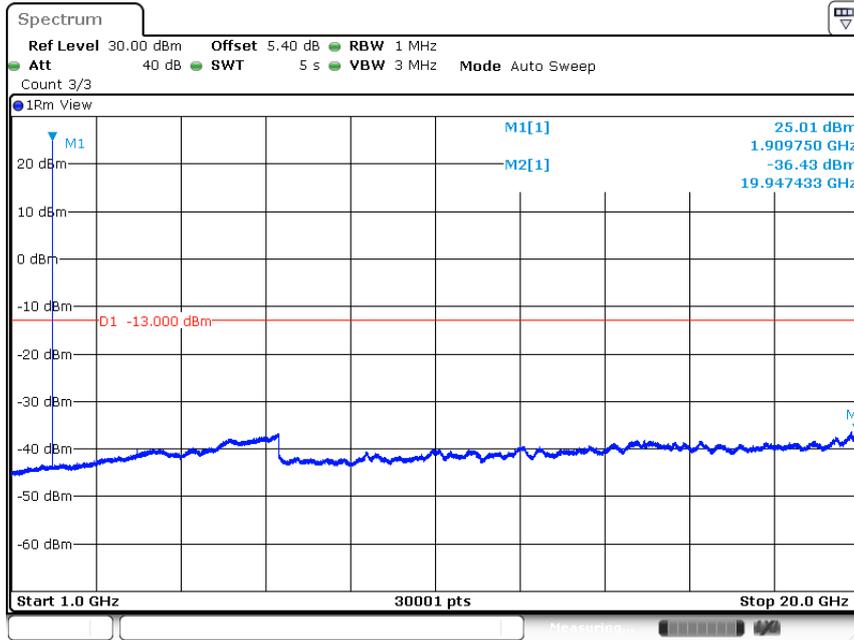


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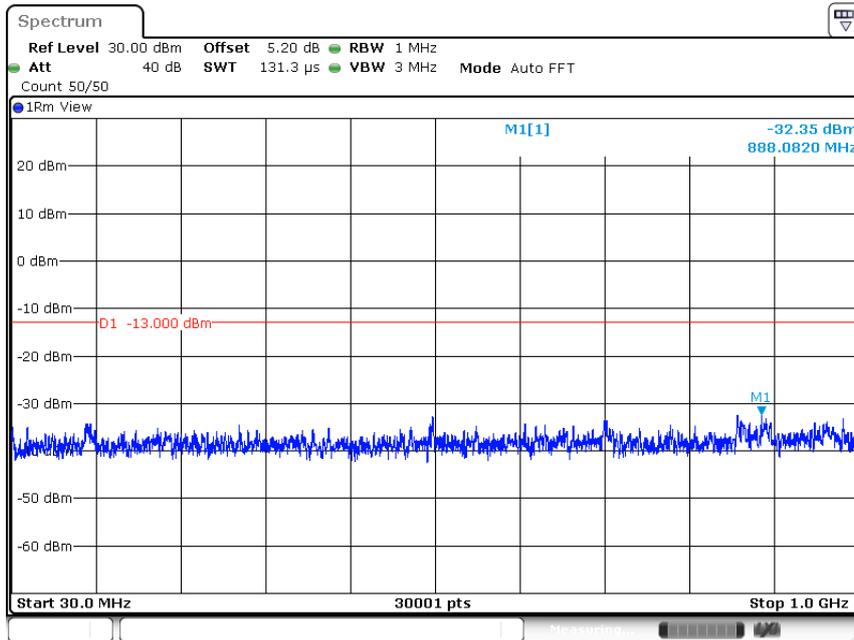
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**EGPRS1900-661-1000~20000MHz**



Date: 7 JAN 2021 17:08:47

**EGPRS1900-810-30~1000MHz**

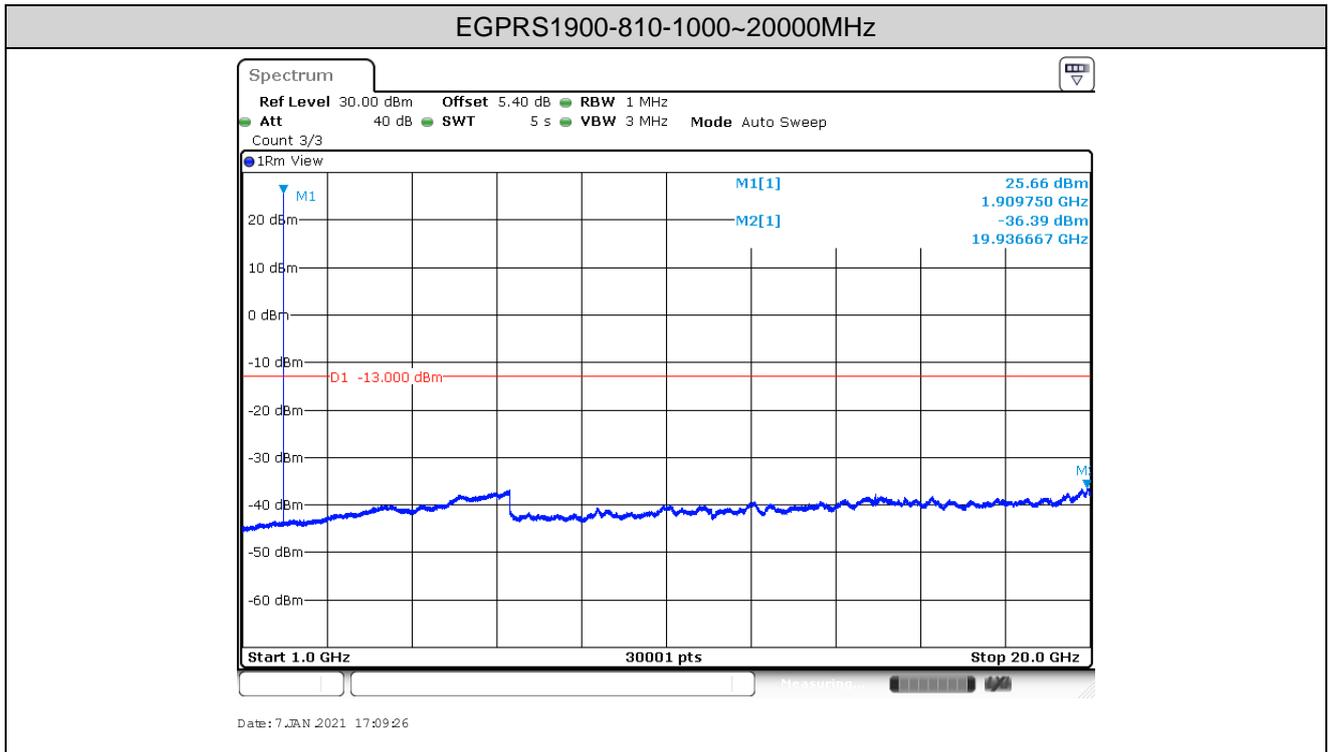


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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = GSM\_850 ANT 1

#### 7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.4837	-69.95	-63.01	-13.00	50.01	Horizontal
2	104.7422	-69.01	-73.79	-13.00	60.79	Horizontal
3	233.9527	-70.21	-67.40	-13.00	54.40	Horizontal
4	1648.5297	-57.41	-53.36	-13.00	40.36	Horizontal
5	2472.6945	-63.99	-53.18	-13.00	40.18	Horizontal
6	9536.8179	-58.36	-53.33	-13.00	40.33	Horizontal



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**7.2. Test Band = GSM\_850 ANT 1**

**7.2.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	31.3096	-68.60	-74.04	-13.00	61.04	Vertical
2	110.4655	-70.25	-63.88	-13.00	50.88	Vertical
3	399.6855	-68.89	-65.77	-13.00	52.77	Vertical
4	1648.1296	-60.32	-55.65	-13.00	42.65	Vertical
5	2472.6945	-66.60	-57.20	-13.00	44.20	Vertical
6	9880.2960	-59.39	-52.98	-13.00	39.98	Vertical



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**7.3. Test Band = GSM\_850 ANT 1**

**7.3.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.1627	-69.67	-62.69	-13.00	49.69	Horizontal
2	106.6338	-69.36	-74.26	-13.00	61.26	Horizontal
3	240.0155	-70.28	-67.49	-13.00	54.49	Horizontal
4	1672.9346	-58.95	-55.13	-13.00	42.13	Horizontal
5	2510.3021	-64.26	-53.00	-13.00	40.00	Horizontal
6	9553.1518	-58.03	-53.04	-13.00	40.04	Horizontal



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**7.4. Test Band = GSM\_850 ANT 1**

**7.4.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.0485	-69.67	-73.87	-13.00	60.87	Vertical
2	114.1032	-69.64	-63.59	-13.00	50.59	Vertical
3	327.8534	-69.57	-67.59	-13.00	54.59	Vertical
4	1673.3347	-59.67	-54.91	-13.00	41.91	Vertical
5	2509.5019	-61.31	-51.74	-13.00	38.74	Vertical
6	9569.4857	-58.35	-53.06	-13.00	40.06	Vertical



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**7.5. Test Band = GSM\_850 ANT 1**

**7.5.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.9016	-69.17	-62.26	-13.00	49.26	Horizontal
2	98.4369	-69.60	-74.37	-13.00	61.37	Horizontal
3	232.0611	-69.68	-66.86	-13.00	53.86	Horizontal
4	1697.3395	-56.03	-52.45	-13.00	39.45	Horizontal
5	2546.7093	-58.17	-47.37	-13.00	34.37	Horizontal
6	9531.9177	-58.44	-53.39	-13.00	40.39	Horizontal



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**7.6. Test Band = GSM\_850 ANT 1**

**7.6.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.0970	-69.77	-74.02	-13.00	61.02	Vertical
2	118.5654	-69.20	-63.54	-13.00	50.54	Vertical
3	390.8580	-68.89	-65.70	-13.00	52.70	Vertical
4	1697.3395	-60.02	-55.18	-13.00	42.18	Vertical
5	2546.3093	-65.16	-55.49	-13.00	42.49	Vertical
6	9299.0433	-58.61	-52.52	-13.00	39.52	Vertical



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**7.7. Test Band = GSM\_1900 ANT 2**

**7.7.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.7747	-70.14	-63.18	-13.00	50.18	Horizontal
2	100.0860	-70.29	-74.78	-13.00	61.78	Horizontal
3	246.3208	-70.33	-67.68	-13.00	54.68	Horizontal
4	3700.5234	-51.88	-60.45	-13.00	47.45	Horizontal
5	7445.1482	-57.33	-57.36	-13.00	44.36	Horizontal
6	16371.945	-60.43	-46.48	-13.00	33.48	Horizontal



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**7.8. Test Band = GSM\_1900 ANT 2**

**7.8.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	31.3581	-69.92	-75.41	-13.00	62.41	Vertical
2	112.5026	-69.68	-63.49	-13.00	50.49	Vertical
3	602.3771	-70.81	-63.18	-13.00	50.18	Vertical
4	3599.0200	-52.58	-61.67	-13.00	48.67	Vertical
5	7349.6450	-57.45	-56.94	-13.00	43.94	Vertical
6	17993.499	-60.64	-42.92	-13.00	29.92	Vertical



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**7.9. Test Band = GSM\_1900 ANT 2**

**7.9.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.6292	-70.22	-63.27	-13.00	50.27	Horizontal
2	101.8321	-69.37	-73.97	-13.00	60.97	Horizontal
3	242.2466	-70.47	-67.73	-13.00	54.73	Horizontal
4	5640.0880	-54.33	-60.37	-13.00	47.37	Horizontal
5	11241.7747	-58.62	-52.58	-13.00	39.58	Horizontal
6	16400.446	-61.01	-46.57	-13.00	33.57	Horizontal



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**7.10. Test Band = GSM\_1900 ANT 2**

**7.10.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.2910	-70.06	-74.50	-13.00	61.50	Vertical
2	110.2230	-70.79	-64.40	-13.00	51.40	Vertical
3	651.8981	-70.38	-62.88	-13.00	49.88	Vertical
4	3629.0210	-52.61	-61.77	-13.00	48.77	Vertical
5	7326.6442	-57.15	-56.66	-13.00	43.66	Vertical
6	17998.500	-60.85	-43.01	-13.00	30.01	Vertical



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**7.11. Test Band = GSM\_1900 ANT 2**

**7.11.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	39.9430	-70.15	-63.41	-13.00	50.41	Horizontal
2	99.7465	-70.52	-75.05	-13.00	62.05	Horizontal
3	237.2509	-71.14	-68.34	-13.00	55.34	Horizontal
4	3631.0210	-52.51	-60.74	-13.00	47.74	Horizontal
5	7350.1450	-57.08	-57.26	-13.00	44.26	Horizontal
6	16369.445	-60.66	-46.76	-13.00	33.76	Horizontal



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**7.12. Test Band = GSM\_1900 ANT 2**

**7.12.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.0000	-70.52	-74.67	-13.00	61.67	Vertical
2	111.1931	-69.82	-63.51	-13.00	50.51	Vertical
3	604.6082	-70.64	-63.02	-13.00	50.02	Vertical
4	3743.5248	-52.65	-61.79	-13.00	48.79	Vertical
5	7346.6449	-57.48	-56.97	-13.00	43.97	Vertical
6	17995.999	-60.79	-43.01	-13.00	30.01	Vertical



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**7.13. Test Band = GSM\_850 ANT 4**

**7.13.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	38.6819	-69.35	-63.03	-13.00	50.03	Horizontal
2	112.0176	-69.32	-74.60	-13.00	61.60	Horizontal
3	249.3280	-70.17	-67.59	-13.00	54.59	Horizontal
4	1648.1296	-60.95	-56.89	-13.00	43.89	Horizontal
5	2472.6945	-52.61	-41.80	-13.00	28.80	Horizontal
6	9317.4772	-58.99	-53.22	-13.00	40.22	Horizontal



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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

**7.14. Test Band = GSM\_850 ANT 4**

**7.14.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	31.2611	-68.25	-73.64	-13.00	60.64	Vertical
2	113.2787	-70.10	-63.98	-13.00	50.98	Vertical
3	428.8839	-68.65	-65.29	-13.00	52.29	Vertical
4	1648.1296	-62.57	-57.90	-13.00	44.90	Vertical
5	2472.6945	-58.29	-48.89	-13.00	35.89	Vertical
6	9309.5437	-59.05	-53.03	-13.00	40.03	Vertical



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**7.15. Test Band = GSM\_850 ANT 4**

**7.15.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.0957	-69.05	-62.13	-13.00	49.13	Horizontal
2	105.4698	-69.94	-74.77	-13.00	61.77	Horizontal
3	247.8244	-70.24	-67.62	-13.00	54.62	Horizontal
4	1673.3347	-63.45	-59.64	-13.00	46.64	Horizontal
5	2509.9020	-50.55	-39.29	-13.00	26.29	Horizontal
6	9318.8773	-58.86	-53.10	-13.00	40.10	Horizontal



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**7.16. Test Band = GSM\_850 ANT 4**

**7.16.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.2910	-69.93	-74.37	-13.00	61.37	Vertical
2	109.8835	-68.66	-62.28	-13.00	49.28	Vertical
3	380.5270	-69.92	-66.65	-13.00	53.65	Vertical
4	1673.3347	-62.07	-57.31	-13.00	44.31	Vertical
5	2509.9020	-56.20	-46.62	-13.00	33.62	Vertical
6	9561.7854	-58.14	-52.85	-13.00	39.85	Vertical



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**7.17. Test Band = GSM\_850 ANT 4**

**7.17.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.2226	-69.55	-62.67	-13.00	49.67	Horizontal
2	108.7194	-68.75	-73.79	-13.00	60.79	Horizontal
3	250.4920	-69.92	-67.45	-13.00	54.45	Horizontal
4	1697.3395	-63.50	-59.92	-13.00	46.92	Horizontal
5	2546.3093	-48.39	-37.59	-13.00	24.59	Horizontal
6	9319.1106	-58.79	-53.03	-13.00	40.03	Horizontal



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**7.18. Test Band = GSM\_850 ANT 4**

**7.18.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.2425	-70.24	-74.63	-13.00	61.63	Vertical
2	111.9206	-69.58	-63.34	-13.00	50.34	Vertical
3	372.8151	-69.44	-66.58	-13.00	53.58	Vertical
4	1697.3395	-64.72	-59.88	-13.00	46.88	Vertical
5	2546.3093	-55.37	-45.70	-13.00	32.70	Vertical
6	9852.2951	-59.60	-53.14	-13.00	40.14	Vertical



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**7.19. Test Band = GSM\_1900 ANT 3**

**7.19.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	37.8089	-69.32	-63.29	-13.00	50.29	Horizontal
2	99.8435	-70.09	-74.60	-13.00	61.60	Horizontal
3	237.8814	-71.99	-69.19	-13.00	56.19	Horizontal
4	3597.0199	-53.14	-61.25	-13.00	48.25	Horizontal
5	5550.5850	-53.72	-59.86	-13.00	46.86	Horizontal
6	16376.945	-58.93	-44.89	-13.00	31.89	Horizontal



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**7.20. Test Band = GSM\_1900 ANT 3**

**7.20.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.1940	-70.34	-74.68	-13.00	61.68	Vertical
2	115.1218	-69.99	-64.03	-13.00	51.03	Vertical
3	583.2672	-69.66	-62.85	-13.00	49.85	Vertical
4	3535.0178	-52.29	-62.01	-13.00	49.01	Vertical
5	7331.6444	-56.98	-56.48	-13.00	43.48	Vertical
6	17998.500	-58.92	-41.08	-13.00	28.08	Vertical



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**7.21. Test Band = GSM\_1900 ANT 3**

**7.21.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.0957	-69.25	-62.33	-13.00	49.33	Horizontal
2	100.3285	-69.59	-74.09	-13.00	61.09	Horizontal
3	242.8771	-71.92	-69.19	-13.00	56.19	Horizontal
4	3547.5183	-52.28	-60.81	-13.00	47.81	Horizontal
5	7366.6456	-57.27	-57.41	-13.00	44.41	Horizontal
6	16393.946	-58.90	-44.56	-13.00	31.56	Horizontal



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**7.22. Test Band = GSM\_1900 ANT 3**

**7.22.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.6790	-70.33	-75.15	-13.00	62.15	Vertical
2	108.6224	-70.66	-64.57	-13.00	51.57	Vertical
3	607.4214	-69.48	-61.87	-13.00	48.87	Vertical
4	3624.5208	-52.61	-61.76	-13.00	48.76	Vertical
5	7420.1473	-57.09	-56.63	-13.00	43.63	Vertical
6	17992.999	-59.24	-41.54	-13.00	28.54	Vertical



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**7.23. Test Band = GSM\_1900 ANT 3**

**7.23.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.6106	-69.71	-62.81	-13.00	49.81	Horizontal
2	97.5639	-70.02	-74.96	-13.00	61.96	Horizontal
3	232.1096	-71.40	-68.58	-13.00	55.58	Horizontal
4	3640.0213	-52.59	-60.87	-13.00	47.87	Horizontal
5	7466.1489	-57.35	-57.37	-13.00	44.37	Horizontal
6	16395.946	-59.69	-45.31	-13.00	32.31	Horizontal



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**7.24. Test Band = GSM\_1900 ANT 3**

**7.24.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.3395	-71.17	-75.65	-13.00	62.65	Vertical
2	109.2530	-70.14	-63.90	-13.00	50.90	Vertical
3	644.3802	-70.72	-63.23	-13.00	50.23	Vertical
4	3532.5178	-52.27	-62.01	-13.00	49.01	Vertical
5	7443.6481	-57.14	-56.79	-13.00	43.79	Vertical
6	17999.500	-58.78	-40.91	-13.00	27.91	Vertical

Remark:

- 1) According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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## 8. Frequency Stability

### 8.1. Frequency Error Vs Voltage

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	NT	-16.30	-0.019777	±2.5	PASS
GSM850	128	VN	NT	-15.40	-0.018685	±2.5	PASS
GSM850	128	VH	NT	-8.85	-0.010738	±2.5	PASS
GSM850	190	VL	NT	-19.69	-0.023536	±2.5	PASS
GSM850	190	VN	NT	-22.92	-0.027397	±2.5	PASS
GSM850	190	VH	NT	-3.84	-0.004590	±2.5	PASS
GSM850	251	VL	NT	-0.77	-0.000907	±2.5	PASS
GSM850	251	VN	NT	-14.33	-0.016883	±2.5	PASS
GSM850	251	VH	NT	-15.56	-0.018332	±2.5	PASS
EGPRS850	128	VL	NT	19.50	0.023659	±2.5	PASS
EGPRS850	128	VN	NT	20.53	0.024909	±2.5	PASS
EGPRS850	128	VH	NT	17.98	0.021815	±2.5	PASS
EGPRS850	190	VL	NT	16.47	0.019687	±2.5	PASS
EGPRS850	190	VN	NT	22.92	0.027397	±2.5	PASS
EGPRS850	190	VH	NT	14.72	0.017595	±2.5	PASS
EGPRS850	251	VL	NT	16.05	0.018909	±2.5	PASS
EGPRS850	251	VN	NT	20.40	0.024034	±2.5	PASS
EGPRS850	251	VH	NT	22.60	0.026626	±2.5	PASS
GSM1900	512	VL	NT	-3.23	-0.001746	±2.5	PASS
GSM1900	512	VN	NT	-0.19	-0.000103	±2.5	PASS
GSM1900	512	VH	NT	-0.61	-0.000330	±2.5	PASS
GSM1900	661	VL	NT	6.46	0.003436	±2.5	PASS
GSM1900	661	VN	NT	6.07	0.003229	±2.5	PASS
GSM1900	661	VH	NT	-13.62	-0.007245	±2.5	PASS
GSM1900	810	VL	NT	2.87	0.001503	±2.5	PASS
GSM1900	810	VN	NT	11.82	0.006189	±2.5	PASS
GSM1900	810	VH	NT	3.26	0.001707	±2.5	PASS
EGPRS1900	512	VL	NT	13.53	0.007313	±2.5	PASS
EGPRS1900	512	VN	NT	20.34	0.010993	±2.5	PASS
EGPRS1900	512	VH	NT	19.98	0.010799	±2.5	PASS



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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



EGPRS1900	661	VL	NT	19.40	0.010319	±2.5	PASS
EGPRS1900	661	VN	NT	26.44	0.014064	±2.5	PASS
EGPRS1900	661	VH	NT	23.73	0.012622	±2.5	PASS
EGPRS1900	810	VL	NT	5.68	0.002974	±2.5	PASS
EGPRS1900	810	VN	NT	18.73	0.009807	±2.5	PASS
EGPRS1900	810	VH	NT	6.84	0.003582	±2.5	PASS

**8.2. Frequency Error Vs Temperature**

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	-8.14	-0.009876	±2.5	PASS
GSM850	128	NV	-20	-7.49	-0.009088	±2.5	PASS
GSM850	128	NV	-10	-11.75	-0.014256	±2.5	PASS
GSM850	128	NV	0	-11.69	-0.014183	±2.5	PASS
GSM850	128	NV	10	-18.50	-0.022446	±2.5	PASS
GSM850	128	NV	20	-12.66	-0.015360	±2.5	PASS
GSM850	128	NV	30	3.33	0.004040	±2.5	PASS
GSM850	128	NV	40	-16.43	-0.019934	±2.5	PASS
GSM850	128	NV	50	-19.34	-0.023465	±2.5	PASS
GSM850	190	NV	-30	-23.02	-0.027516	±2.5	PASS
GSM850	190	NV	-20	-1.13	-0.001351	±2.5	PASS
GSM850	190	NV	-10	-22.02	-0.026321	±2.5	PASS
GSM850	190	NV	0	-21.08	-0.025197	±2.5	PASS
GSM850	190	NV	10	-19.57	-0.023392	±2.5	PASS
GSM850	190	NV	20	-31.67	-0.037856	±2.5	PASS
GSM850	190	NV	30	-21.53	-0.025735	±2.5	PASS
GSM850	190	NV	40	-22.24	-0.026584	±2.5	PASS
GSM850	190	NV	50	-28.90	-0.034545	±2.5	PASS
GSM850	251	NV	-30	-19.98	-0.023539	±2.5	PASS
GSM850	251	NV	-20	-10.91	-0.012853	±2.5	PASS
GSM850	251	NV	-10	-18.89	-0.022255	±2.5	PASS
GSM850	251	NV	0	-11.56	-0.013619	±2.5	PASS
GSM850	251	NV	10	-12.98	-0.015292	±2.5	PASS
GSM850	251	NV	20	-17.92	-0.021112	±2.5	PASS
GSM850	251	NV	30	-14.75	-0.017377	±2.5	PASS
GSM850	251	NV	40	-12.20	-0.014373	±2.5	PASS



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GSM850	251	NV	50	-16.69	-0.019663	±2.5	PASS
EGPRS850	128	NV	-30	16.01	0.019425	±2.5	PASS
EGPRS850	128	NV	-20	23.86	0.028949	±2.5	PASS
EGPRS850	128	NV	-10	23.83	0.028913	±2.5	PASS
EGPRS850	128	NV	0	25.38	0.030793	±2.5	PASS
EGPRS850	128	NV	10	23.44	0.028440	±2.5	PASS
EGPRS850	128	NV	20	20.73	0.025152	±2.5	PASS
EGPRS850	128	NV	30	17.50	0.021233	±2.5	PASS
EGPRS850	128	NV	40	18.85	0.022871	±2.5	PASS
EGPRS850	128	NV	50	18.27	0.022167	±2.5	PASS
EGPRS850	190	NV	-30	12.91	0.015432	±2.5	PASS
EGPRS850	190	NV	-20	19.37	0.023153	±2.5	PASS
EGPRS850	190	NV	-10	15.66	0.018719	±2.5	PASS
EGPRS850	190	NV	0	19.47	0.023273	±2.5	PASS
EGPRS850	190	NV	10	13.85	0.016555	±2.5	PASS
EGPRS850	190	NV	20	19.66	0.023500	±2.5	PASS
EGPRS850	190	NV	30	12.17	0.014547	±2.5	PASS
EGPRS850	190	NV	40	14.40	0.017213	±2.5	PASS
EGPRS850	190	NV	50	20.02	0.023930	±2.5	PASS
EGPRS850	251	NV	-30	16.85	0.019852	±2.5	PASS
EGPRS850	251	NV	-20	22.37	0.026355	±2.5	PASS
EGPRS850	251	NV	-10	17.63	0.020770	±2.5	PASS
EGPRS850	251	NV	0	21.41	0.025224	±2.5	PASS
EGPRS850	251	NV	10	19.05	0.022443	±2.5	PASS
EGPRS850	251	NV	20	18.73	0.022066	±2.5	PASS
EGPRS850	251	NV	30	17.69	0.020841	±2.5	PASS
EGPRS850	251	NV	40	21.76	0.025636	±2.5	PASS
EGPRS850	251	NV	50	18.21	0.021454	±2.5	PASS
GSM1900	512	NV	-30	5.71	0.003086	±2.5	PASS
GSM1900	512	NV	-20	-2.29	-0.001238	±2.5	PASS
GSM1900	512	NV	-10	-6.10	-0.003297	±2.5	PASS
GSM1900	512	NV	0	-4.91	-0.002654	±2.5	PASS
GSM1900	512	NV	10	-7.97	-0.004308	±2.5	PASS
GSM1900	512	NV	20	4.88	0.002638	±2.5	PASS
GSM1900	512	NV	30	3.23	0.001746	±2.5	PASS
GSM1900	512	NV	40	-0.58	-0.000313	±2.5	PASS
GSM1900	512	NV	50	-3.71	-0.002005	±2.5	PASS



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GSM1900	661	NV	-30	6.26	0.003330	±2.5	PASS
GSM1900	661	NV	-20	-1.87	-0.000995	±2.5	PASS
GSM1900	661	NV	-10	6.97	0.003707	±2.5	PASS
GSM1900	661	NV	0	13.92	0.007404	±2.5	PASS
GSM1900	661	NV	10	3.91	0.002080	±2.5	PASS
GSM1900	661	NV	20	3.10	0.001649	±2.5	PASS
GSM1900	661	NV	30	4.49	0.002388	±2.5	PASS
GSM1900	661	NV	40	5.81	0.003090	±2.5	PASS
GSM1900	661	NV	50	13.50	0.007181	±2.5	PASS
GSM1900	810	NV	-30	-2.58	-0.001351	±2.5	PASS
GSM1900	810	NV	-20	-8.20	-0.004294	±2.5	PASS
GSM1900	810	NV	-10	-8.94	-0.004681	±2.5	PASS
GSM1900	810	NV	0	-0.29	-0.000152	±2.5	PASS
GSM1900	810	NV	10	-2.26	-0.001183	±2.5	PASS
GSM1900	810	NV	20	-1.61	-0.000843	±2.5	PASS
GSM1900	810	NV	30	-2.03	-0.001063	±2.5	PASS
GSM1900	810	NV	40	-1.68	-0.000880	±2.5	PASS
GSM1900	810	NV	50	-6.17	-0.003231	±2.5	PASS
EGPRS1900	512	NV	-30	14.59	0.007886	±2.5	PASS
EGPRS1900	512	NV	-20	22.96	0.012409	±2.5	PASS
EGPRS1900	512	NV	-10	14.24	0.007696	±2.5	PASS
EGPRS1900	512	NV	0	19.05	0.010296	±2.5	PASS
EGPRS1900	512	NV	10	21.63	0.011691	±2.5	PASS
EGPRS1900	512	NV	20	21.66	0.011707	±2.5	PASS
EGPRS1900	512	NV	30	21.86	0.011815	±2.5	PASS
EGPRS1900	512	NV	40	7.59	0.004102	±2.5	PASS
EGPRS1900	512	NV	50	11.04	0.005967	±2.5	PASS
EGPRS1900	661	NV	-30	28.12	0.014957	±2.5	PASS
EGPRS1900	661	NV	-20	12.62	0.006713	±2.5	PASS
EGPRS1900	661	NV	-10	15.82	0.008415	±2.5	PASS
EGPRS1900	661	NV	0	24.76	0.013170	±2.5	PASS
EGPRS1900	661	NV	10	16.08	0.008553	±2.5	PASS
EGPRS1900	661	NV	20	20.92	0.011128	±2.5	PASS
EGPRS1900	661	NV	30	30.87	0.016420	±2.5	PASS
EGPRS1900	661	NV	40	13.33	0.007090	±2.5	PASS
EGPRS1900	661	NV	50	14.56	0.007745	±2.5	PASS
EGPRS1900	810	NV	-30	22.66	0.011865	±2.5	PASS



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EGPRS1900	810	NV	-20	21.60	0.011310	±2.5	PASS
EGPRS1900	810	NV	-10	6.94	0.003634	±2.5	PASS
EGPRS1900	810	NV	0	9.85	0.005158	±2.5	PASS
EGPRS1900	810	NV	10	14.82	0.007760	±2.5	PASS
EGPRS1900	810	NV	20	14.40	0.007540	±2.5	PASS
EGPRS1900	810	NV	30	14.98	0.007844	±2.5	PASS
EGPRS1900	810	NV	40	20.37	0.010666	±2.5	PASS
EGPRS1900	810	NV	50	6.59	0.003451	±2.5	PASS

The End



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