



# Appendix B

## GSM 850 & 1900



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

### 1.1. Test Result

#### ANT0:

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.40	25.95	38.45	PASS
GSM850	190	---	32.37	25.92	38.45	PASS
GSM850	251	---	32.32	25.87	38.45	PASS
EGPRS850	128	1	26.31	19.86	38.45	PASS
EGPRS850	128	2	24.16	17.71	38.45	PASS
EGPRS850	128	3	22.00	15.55	38.45	PASS
EGPRS850	128	4	21.32	14.87	38.45	PASS
EGPRS850	190	1	26.40	19.95	38.45	PASS
EGPRS850	190	2	24.19	17.74	38.45	PASS
EGPRS850	190	3	22.04	15.59	38.45	PASS
EGPRS850	190	4	21.40	14.95	38.45	PASS
EGPRS850	251	1	26.32	19.87	38.45	PASS
EGPRS850	251	2	24.25	17.8	38.45	PASS
EGPRS850	251	3	22.12	15.67	38.45	PASS
EGPRS850	251	4	21.42	14.97	38.45	PASS

#### ANT3:

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	28.68	27.78	33.00	PASS
GSM1900	661	---	28.65	27.75	33.00	PASS
GSM1900	810	---	28.54	27.64	33.00	PASS
EGPRS1900	512	1	25.53	24.63	33.00	PASS
EGPRS1900	512	2	23.14	22.24	33.00	PASS
EGPRS1900	512	3	21.01	20.11	33.00	PASS
EGPRS1900	512	4	20.18	19.28	33.00	PASS
EGPRS1900	661	1	25.47	24.57	33.00	PASS
EGPRS1900	661	2	23.18	22.28	33.00	PASS
EGPRS1900	661	3	20.92	20.02	33.00	PASS
EGPRS1900	661	4	20.13	19.23	33.00	PASS
EGPRS1900	810	1	25.43	24.53	33.00	PASS
EGPRS1900	810	2	23.09	22.19	33.00	PASS
EGPRS1900	810	3	20.96	20.06	33.00	PASS
EGPRS1900	810	4	20.16	19.26	33.00	PASS



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**ANT1:**

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.79	27.74	38.45	PASS
GSM850	190	---	32.81	27.76	38.45	PASS
GSM850	251	---	32.66	27.61	38.45	PASS
EGPRS850	128	1	26.93	21.88	38.45	PASS
EGPRS850	128	2	24.61	19.56	38.45	PASS
EGPRS850	128	3	22.46	17.41	38.45	PASS
EGPRS850	128	4	21.82	16.77	38.45	PASS
EGPRS850	190	1	26.85	21.8	38.45	PASS
EGPRS850	190	2	24.67	19.62	38.45	PASS
EGPRS850	190	3	22.50	17.45	38.45	PASS
EGPRS850	190	4	21.81	16.76	38.45	PASS
EGPRS850	251	1	26.90	21.85	38.45	PASS
EGPRS850	251	2	24.60	19.55	38.45	PASS
EGPRS850	251	3	22.53	17.48	38.45	PASS
EGPRS850	251	4	21.77	16.72	38.45	PASS

**ANT4:**

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.47	28.17	33.00	PASS
GSM1900	661	---	29.51	28.21	33.00	PASS
GSM1900	810	---	29.46	28.16	33.00	PASS
EGPRS1900	512	1	25.58	24.28	33.00	PASS
EGPRS1900	512	2	23.89	22.59	33.00	PASS
EGPRS1900	512	3	21.65	20.35	33.00	PASS
EGPRS1900	512	4	20.93	19.63	33.00	PASS
EGPRS1900	661	1	25.48	24.18	33.00	PASS
EGPRS1900	661	2	23.98	22.68	33.00	PASS
EGPRS1900	661	3	21.75	20.45	33.00	PASS
EGPRS1900	661	4	20.98	19.68	33.00	PASS
EGPRS1900	810	1	25.46	24.16	33.00	PASS
EGPRS1900	810	2	23.94	22.64	33.00	PASS
EGPRS1900	810	3	21.69	20.39	33.00	PASS
EGPRS1900	810	4	20.88	19.58	33.00	PASS

Remark:

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

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

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



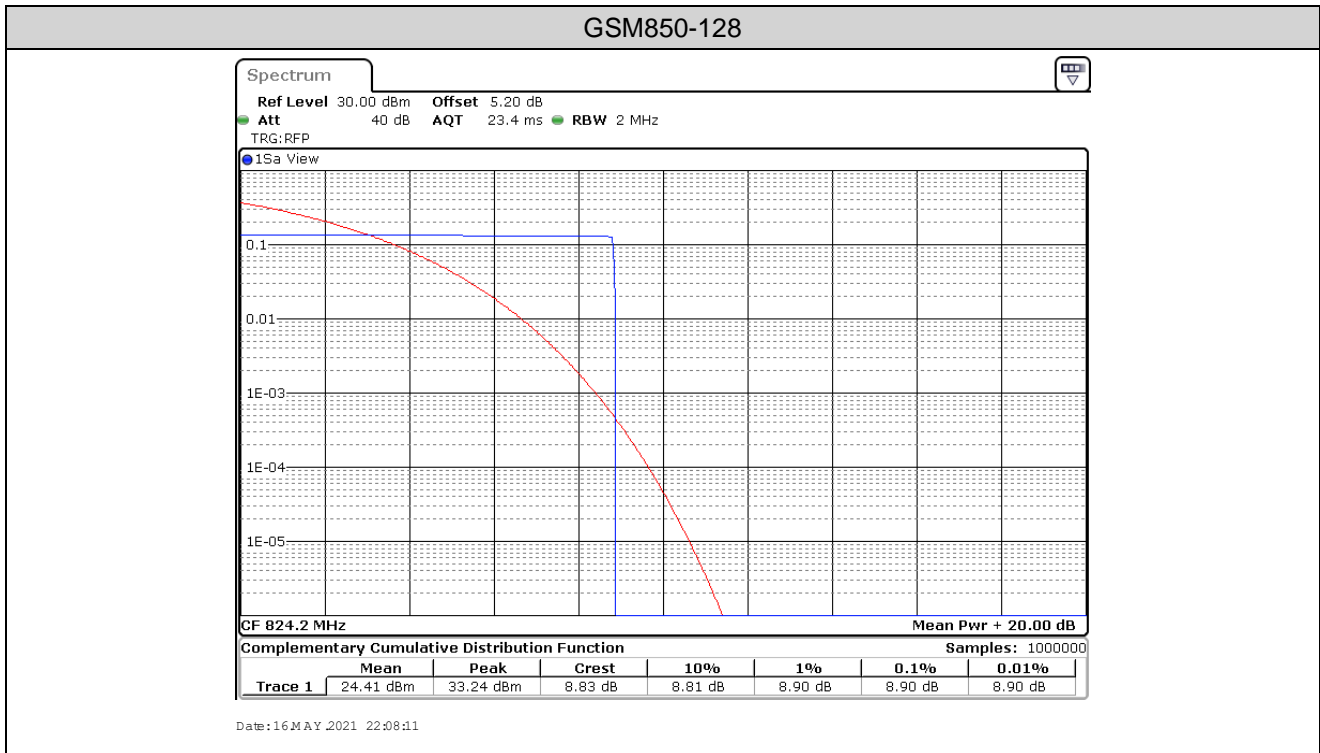
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## 2. Peak-to-Average Ratio

### 2.1. Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.9	13	PASS
GSM850	190	8.9	13	PASS
GSM850	251	9.74	13	PASS
EGPRS850	128	11.97	13	PASS
EGPRS850	190	12.12	13	PASS
EGPRS850	251	12	13	PASS
GSM1900	512	9.74	13	PASS
GSM1900	661	8.96	13	PASS
GSM1900	810	8.9	13	PASS
EGPRS1900	512	11.86	13	PASS
EGPRS1900	661	11.8	13	PASS
EGPRS1900	810	11.62	13	PASS

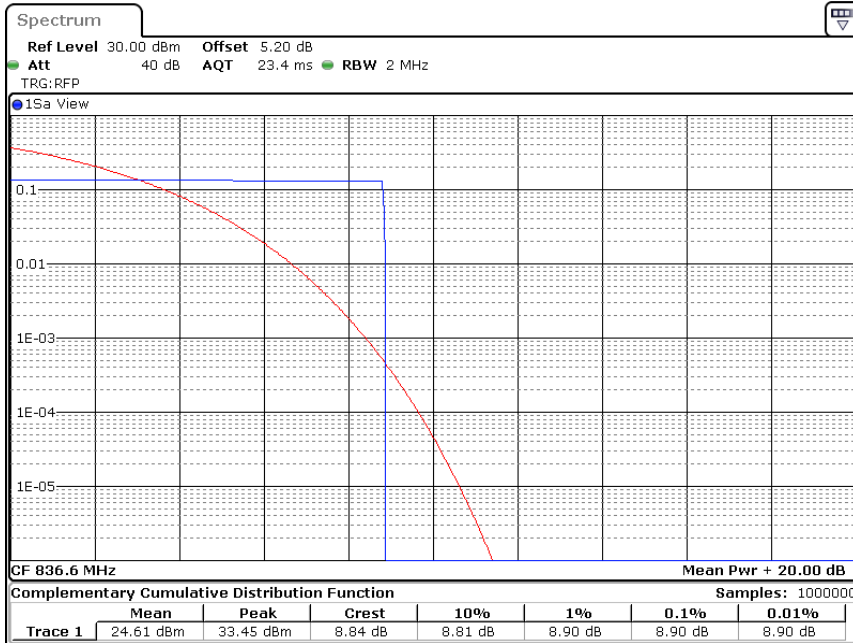
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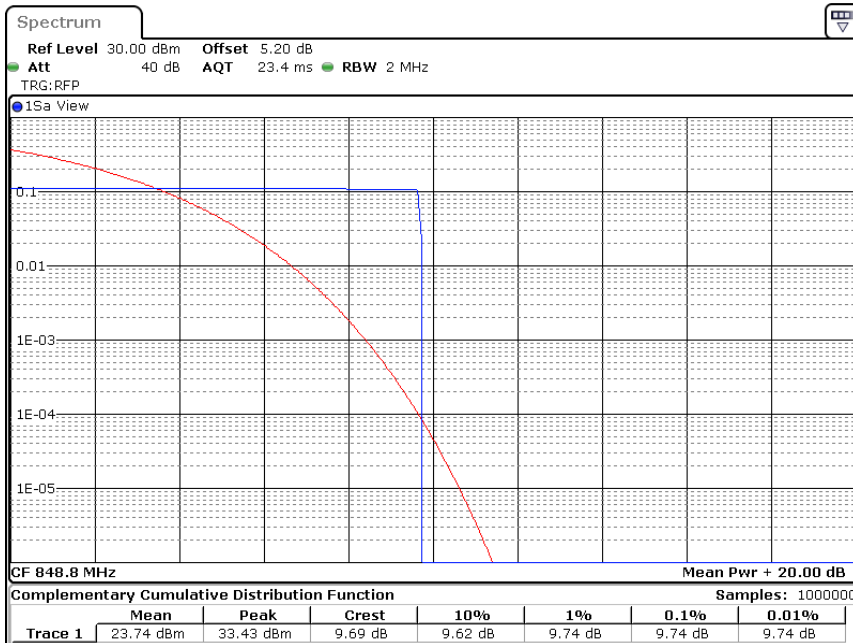
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**GSM850-190**



Date: 16 MAY 2021 22:08:26

**GSM850-251**



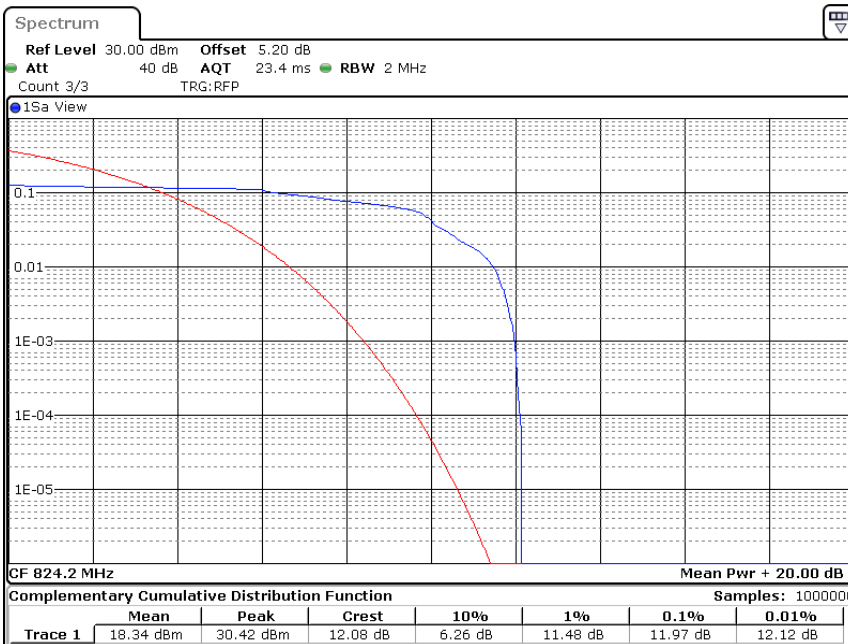
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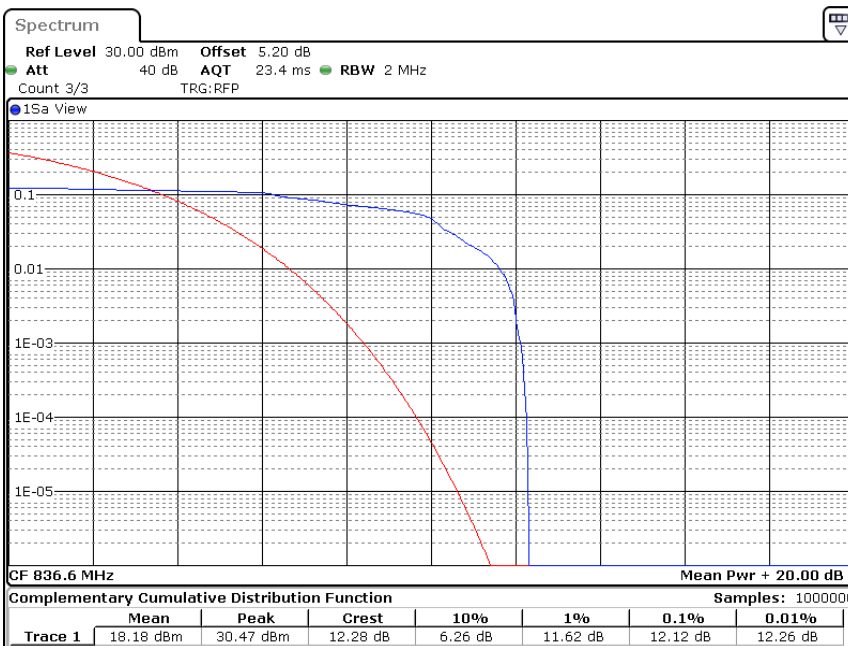


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**EGPRS850-190**



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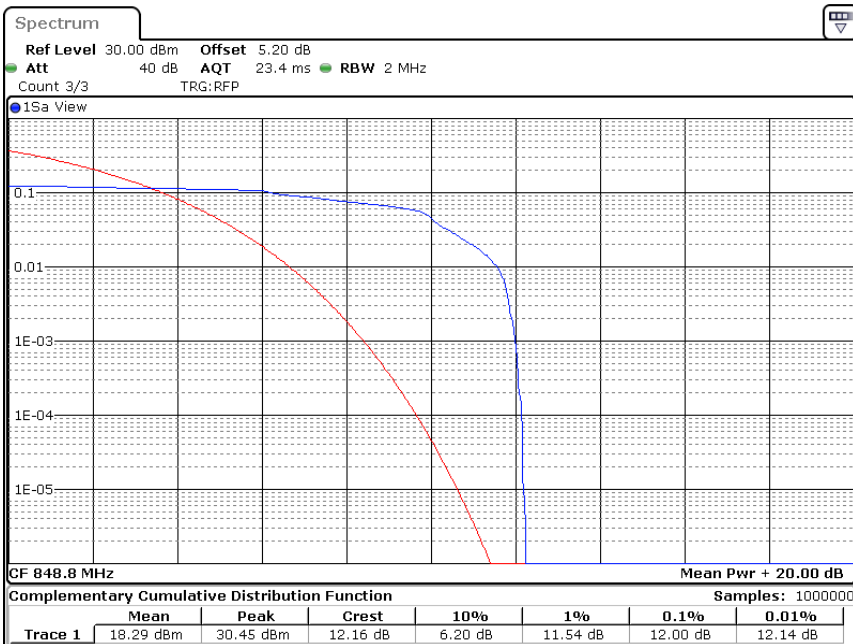


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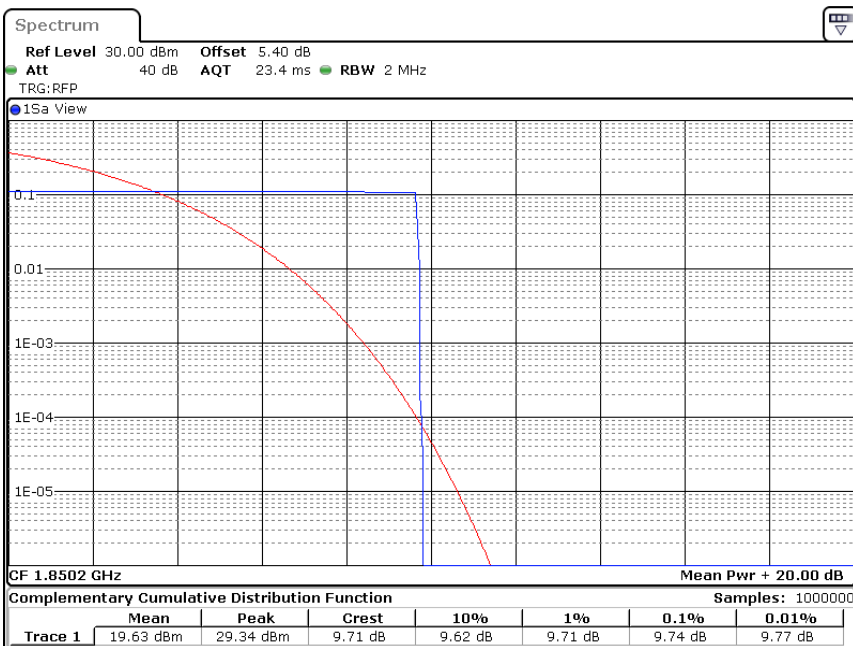
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**EGPRS850-251**



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**GSM1900-512**



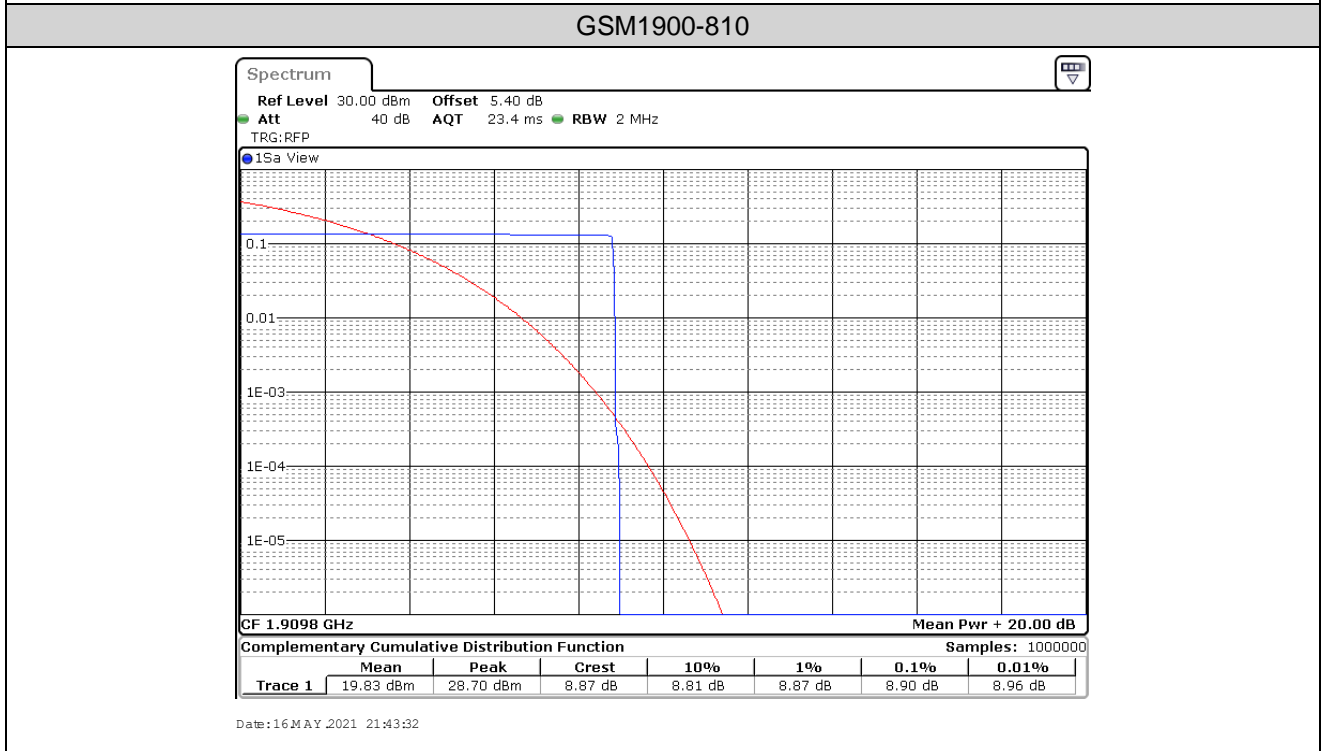
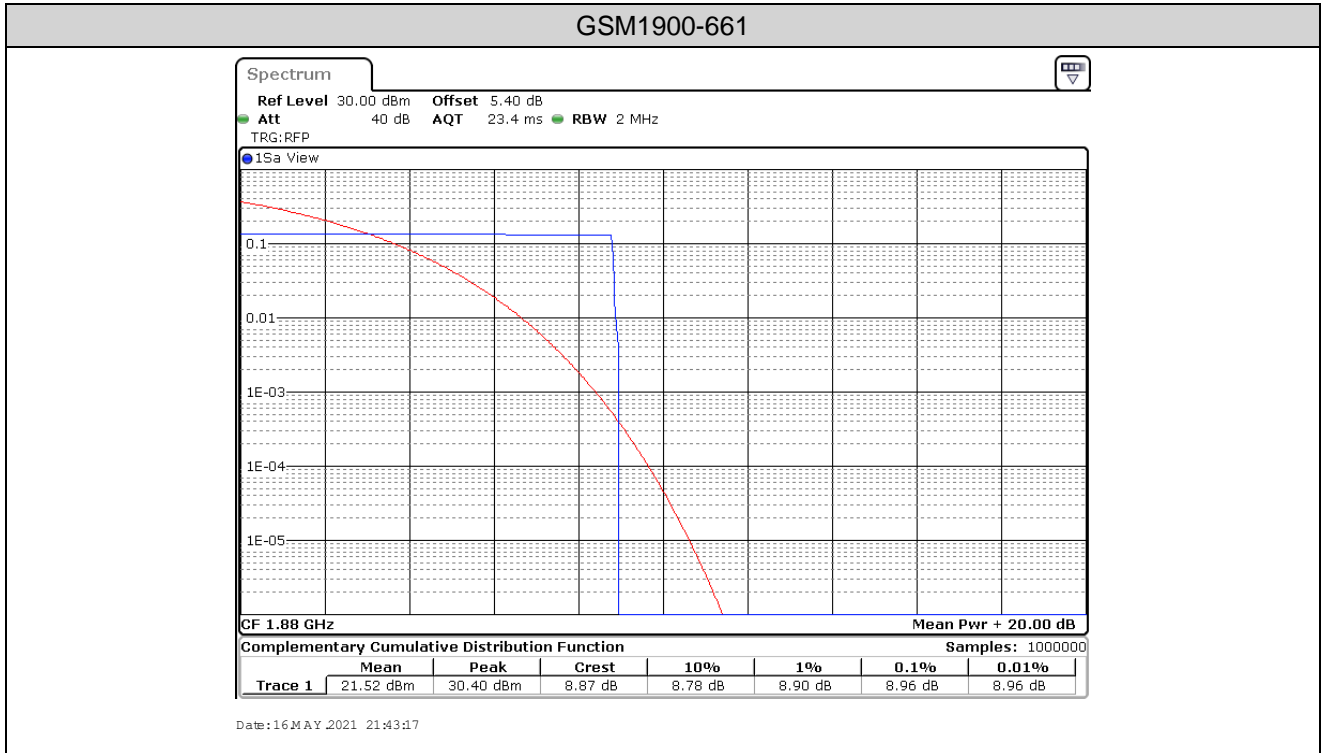
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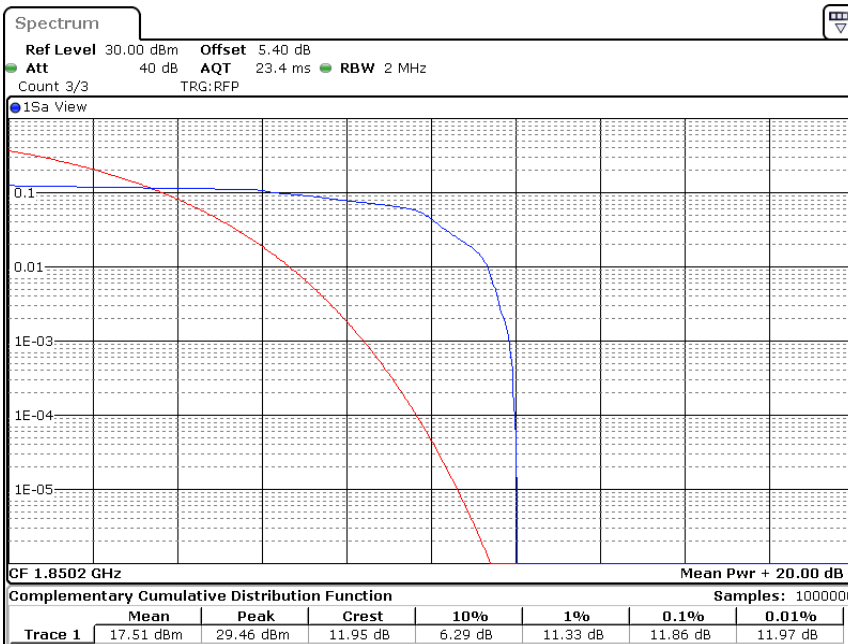


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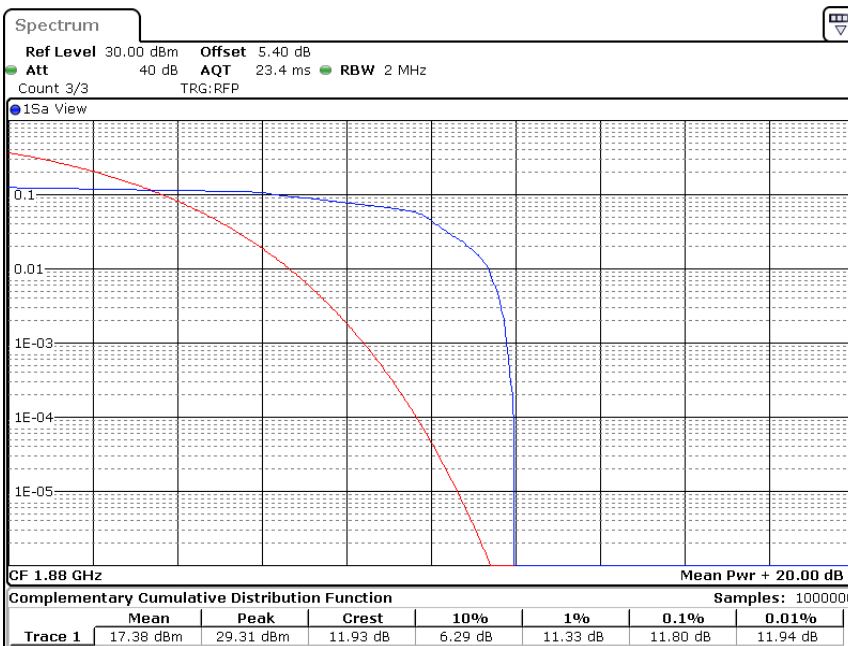
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**EGPRS1900-512**



Date: 16 MAY 2021 21:51:07

**EGPRS1900-661**



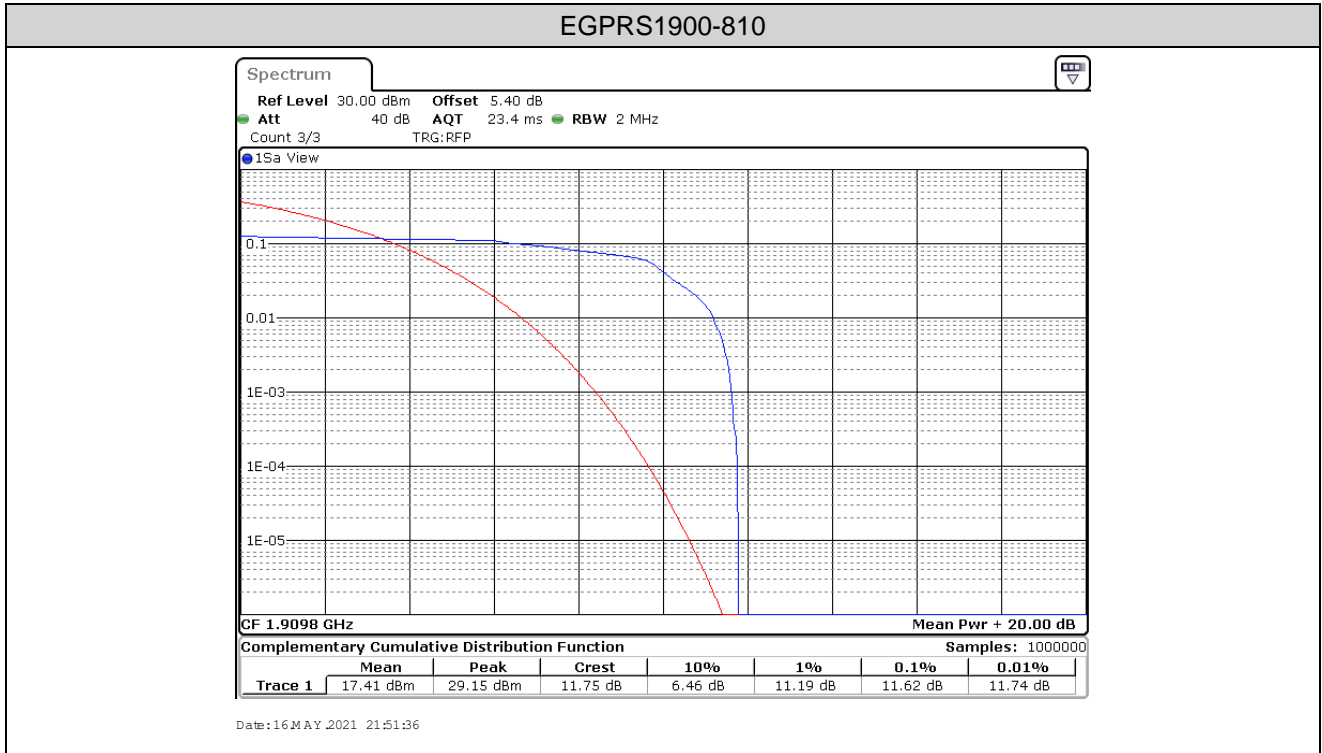
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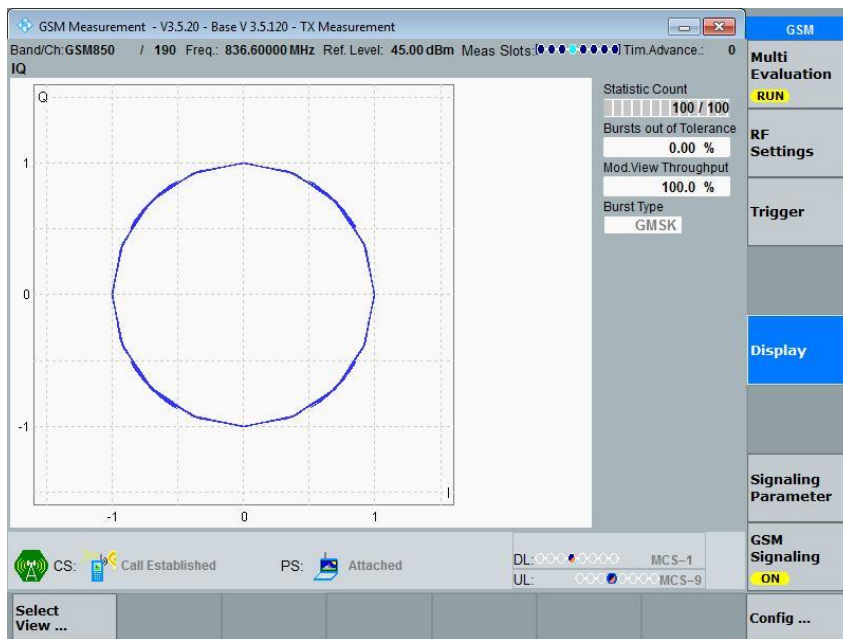
### 3. Modulation Characteristics

#### 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



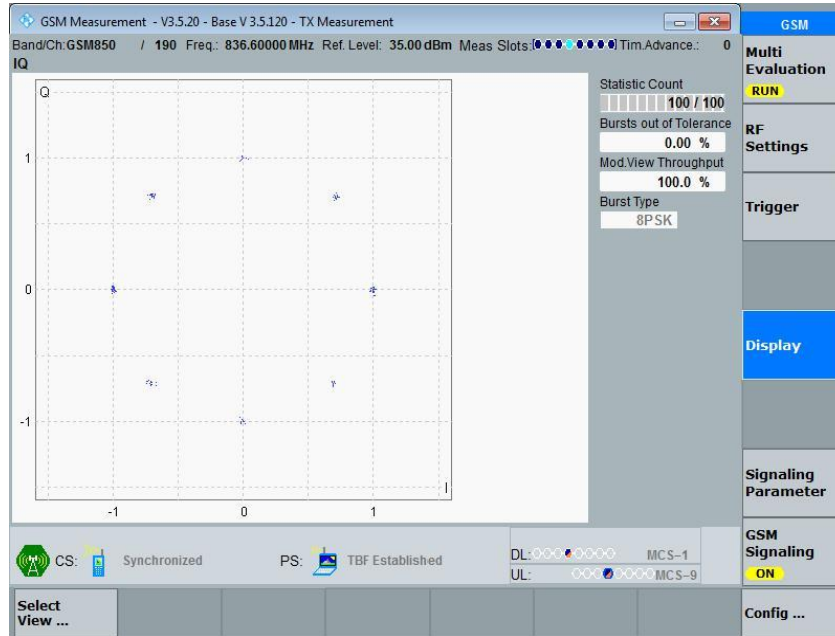
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**3.1.1.2. Test Mode = GSM/TM2**

**3.1.1.2.1. Test Channel = MCH**

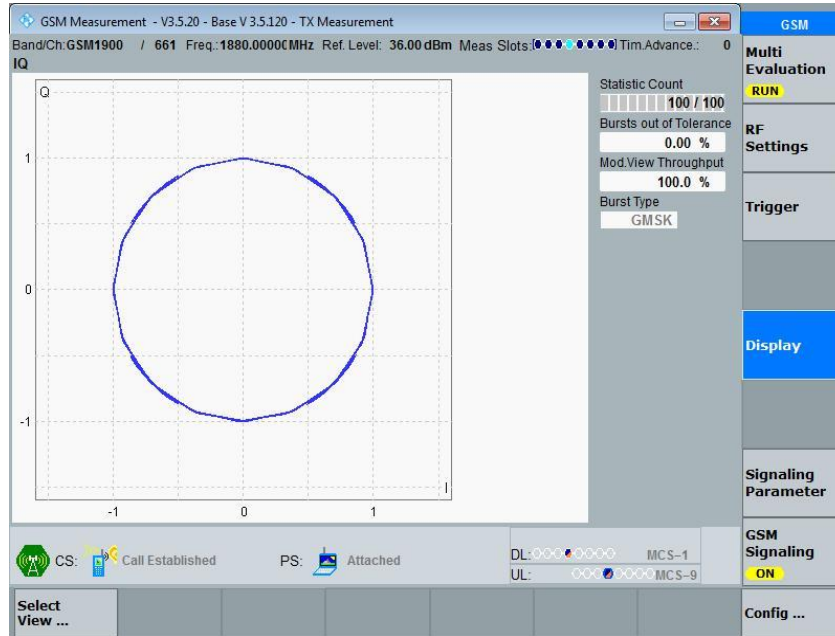


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**3.1.2. Test Band = GSM 1900**

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

**3.1.2.1.1. Test Channel = MCH**



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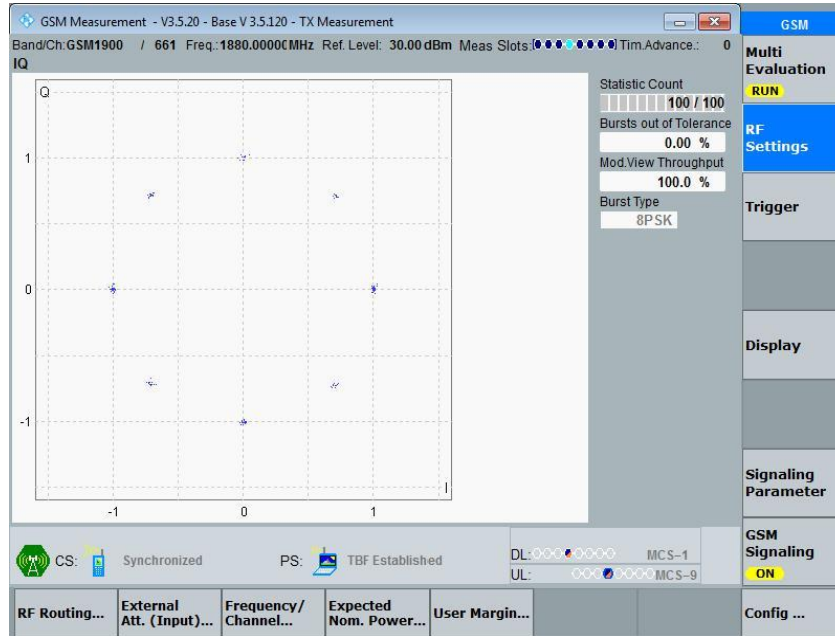
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**3.1.2.2. Test Mode = GSM/TM2**

**3.1.2.2.1. Test Channel = MCH**



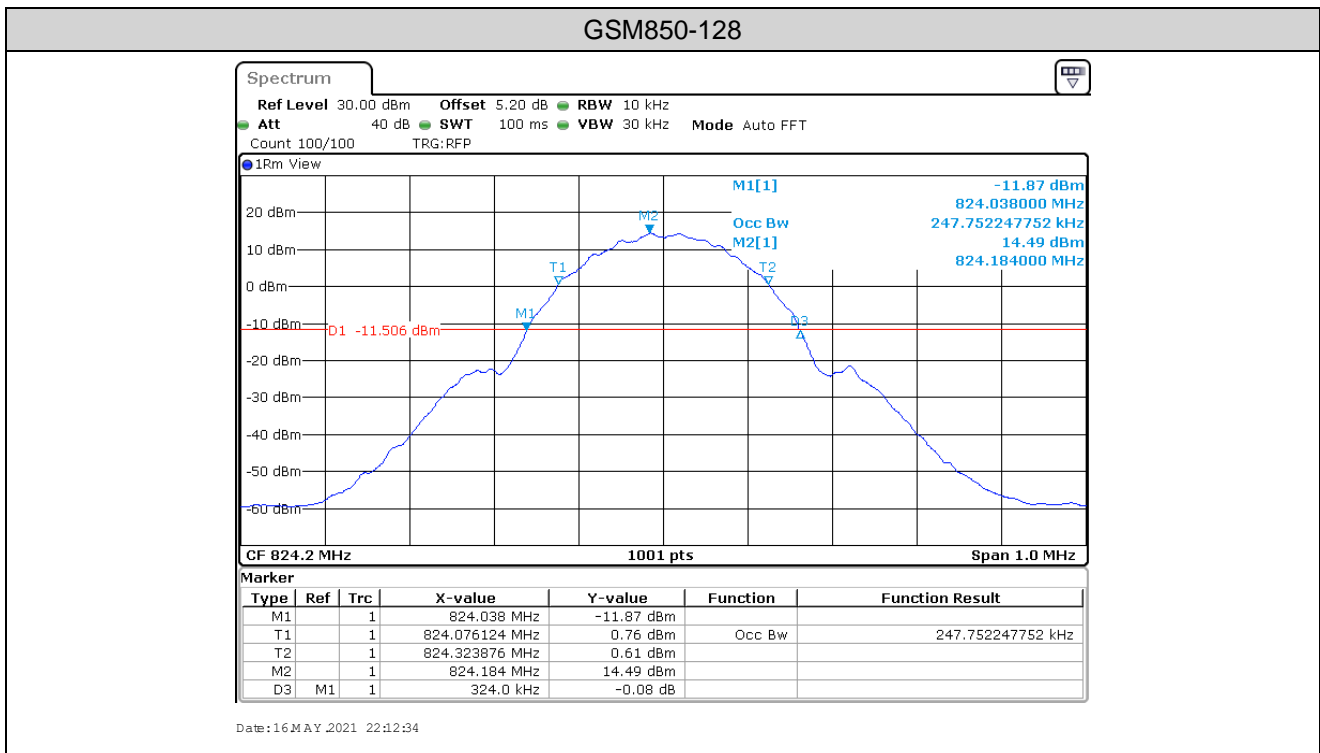
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.248	0.324	---	PASS
GSM850	190	0.249	0.323	---	PASS
GSM850	251	0.247	0.323	---	PASS
EGPRS850	128	0.246	0.321	---	PASS
EGPRS850	190	0.246	0.319	---	PASS
EGPRS850	251	0.246	0.317	---	PASS
GSM1900	512	0.244	0.316	---	PASS
GSM1900	661	0.245	0.316	---	PASS
GSM1900	810	0.245	0.315	---	PASS
EGPRS1900	512	0.248	0.319	---	PASS
EGPRS1900	661	0.248	0.320	---	PASS
EGPRS1900	810	0.248	0.321	---	PASS

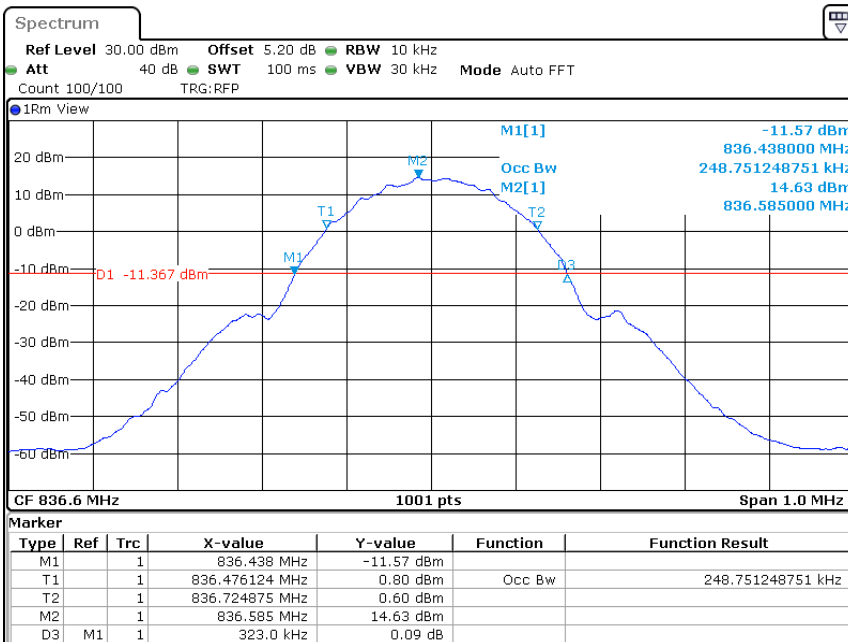
### 4.2. Test Plots



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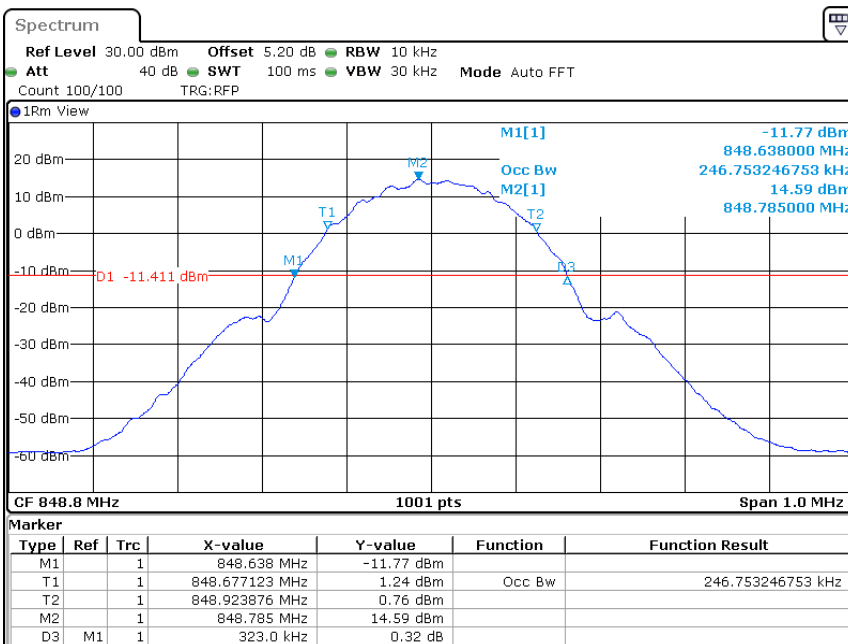
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**GSM850-190**



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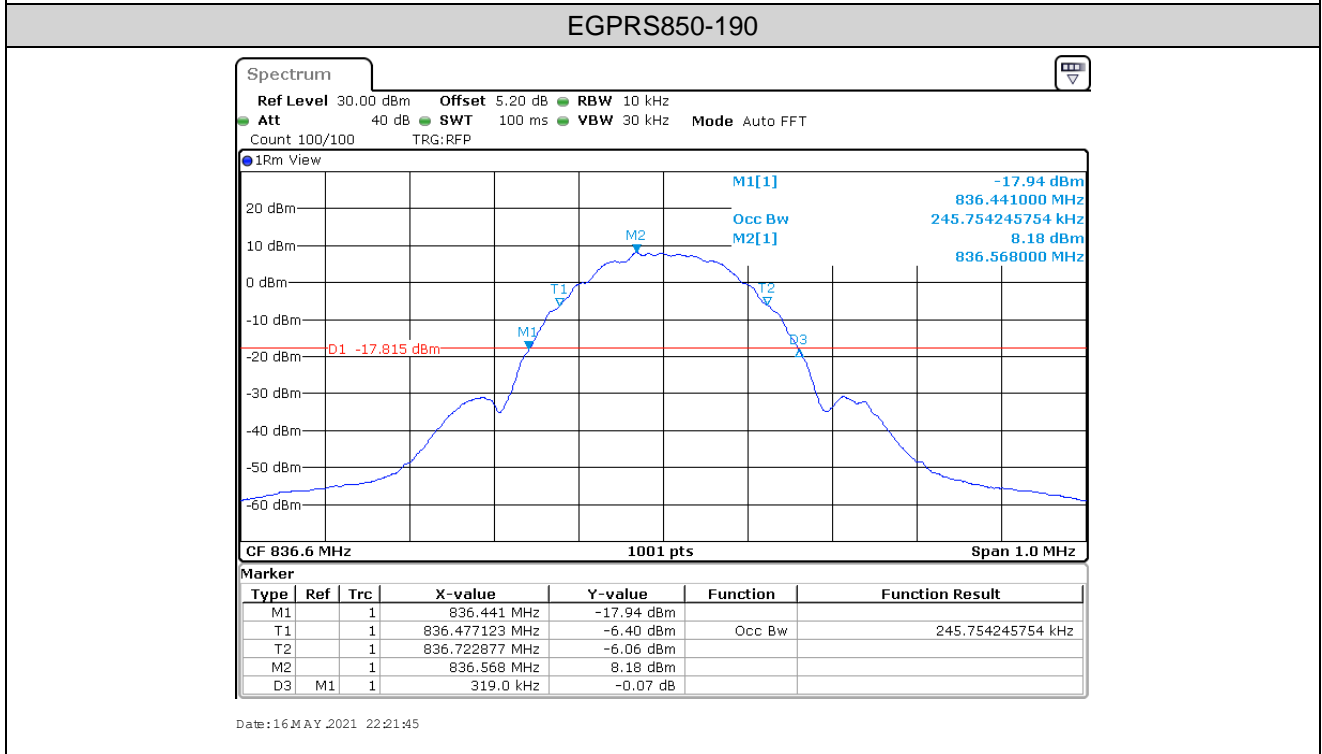
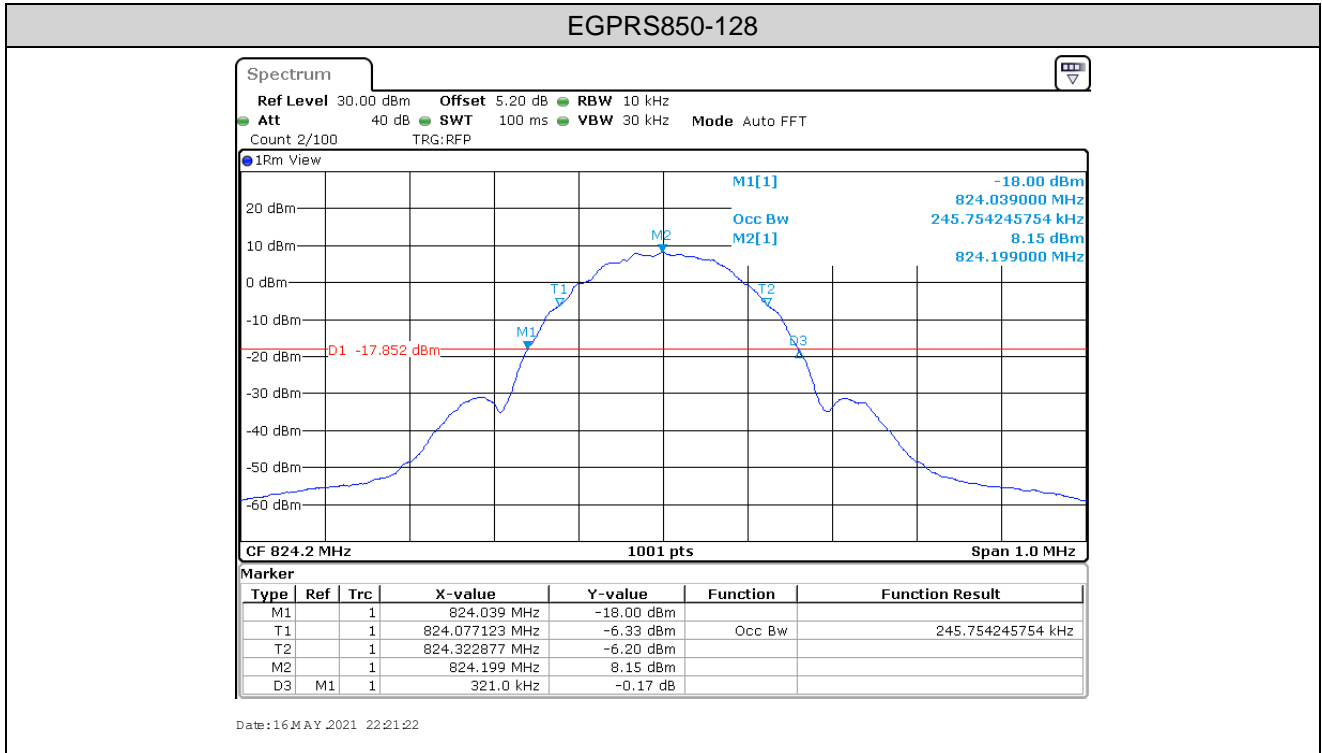
**GSM850-251**



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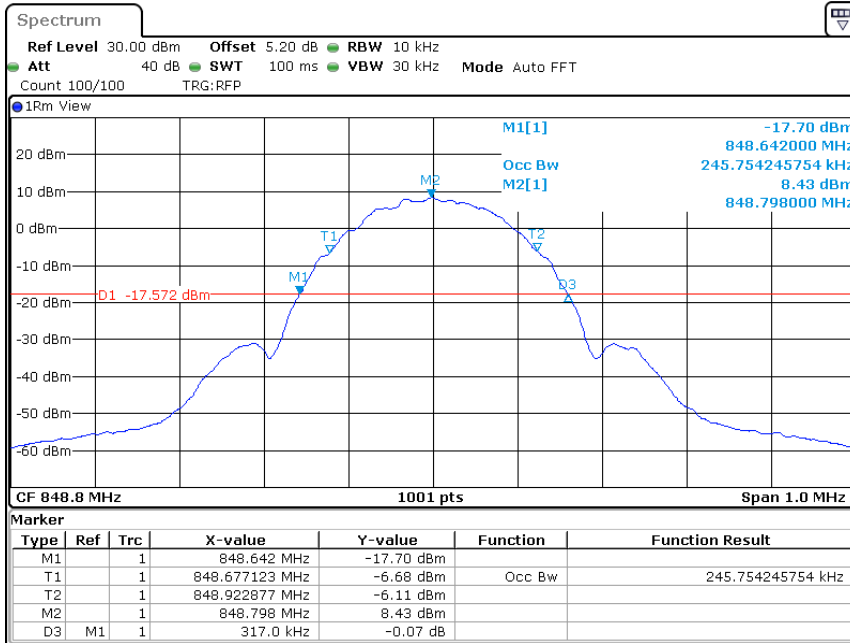


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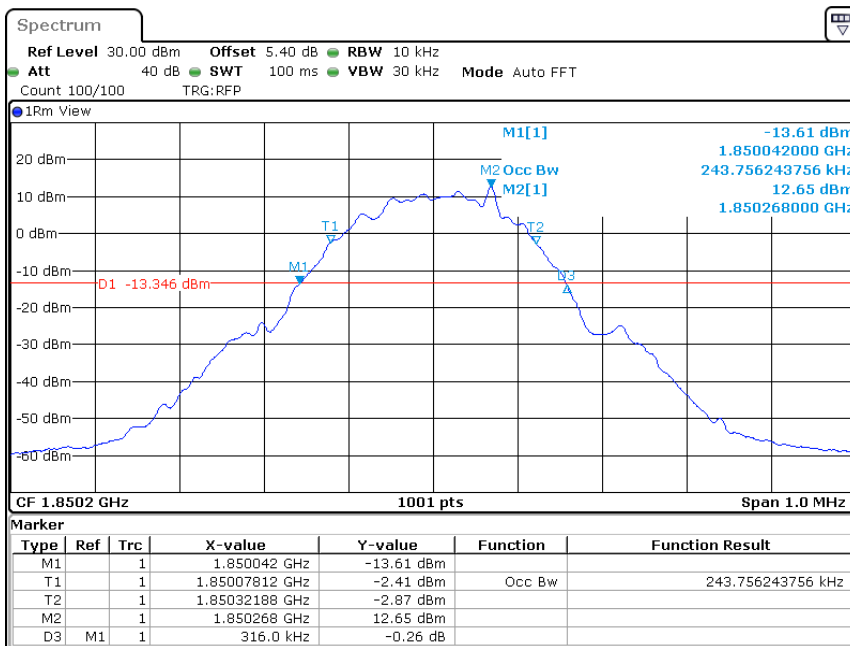
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**EGPRS850-251**



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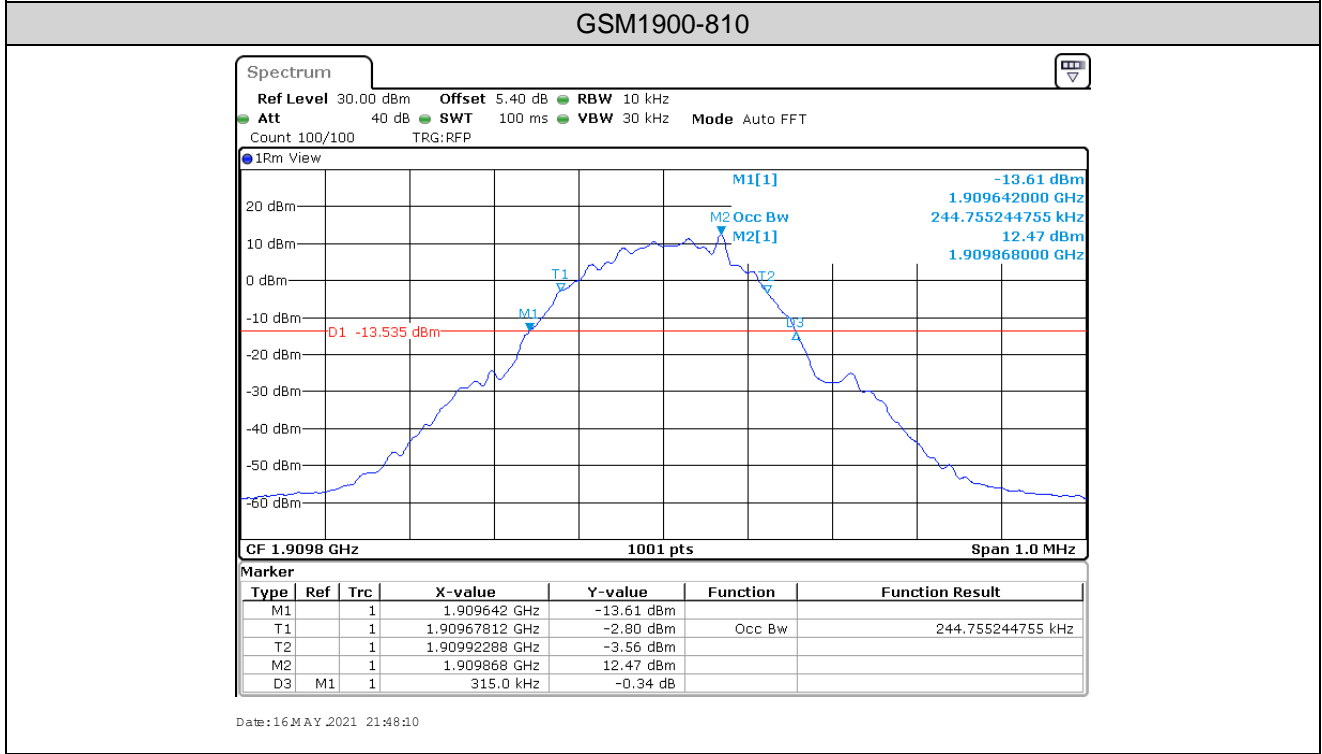
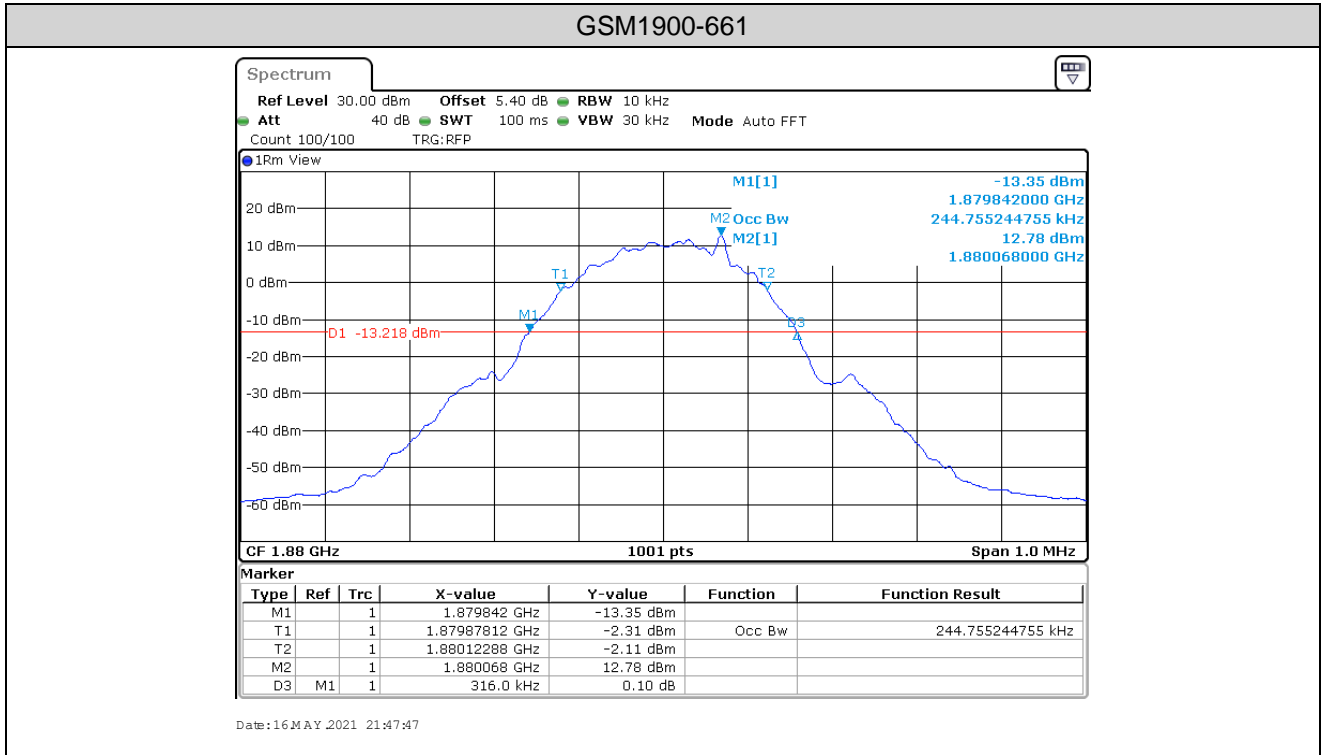
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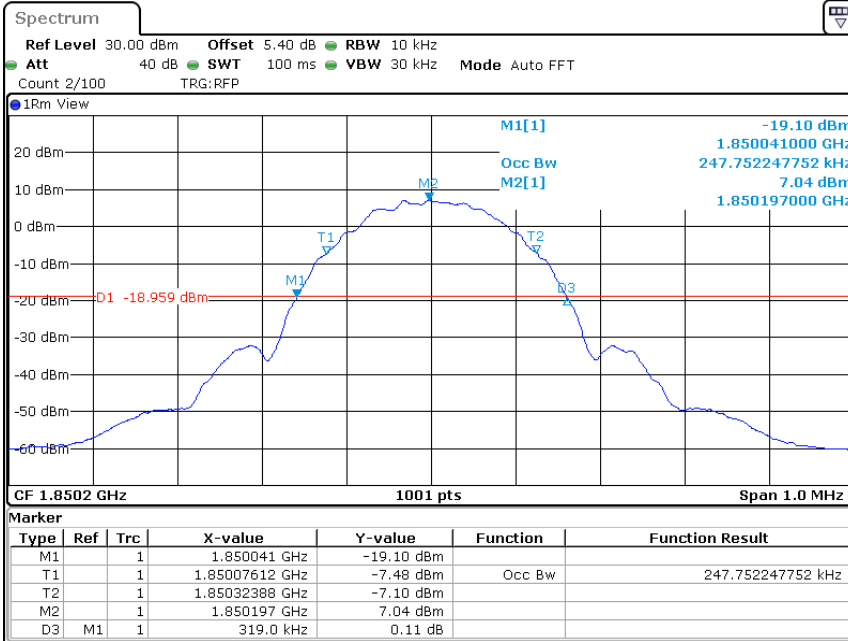


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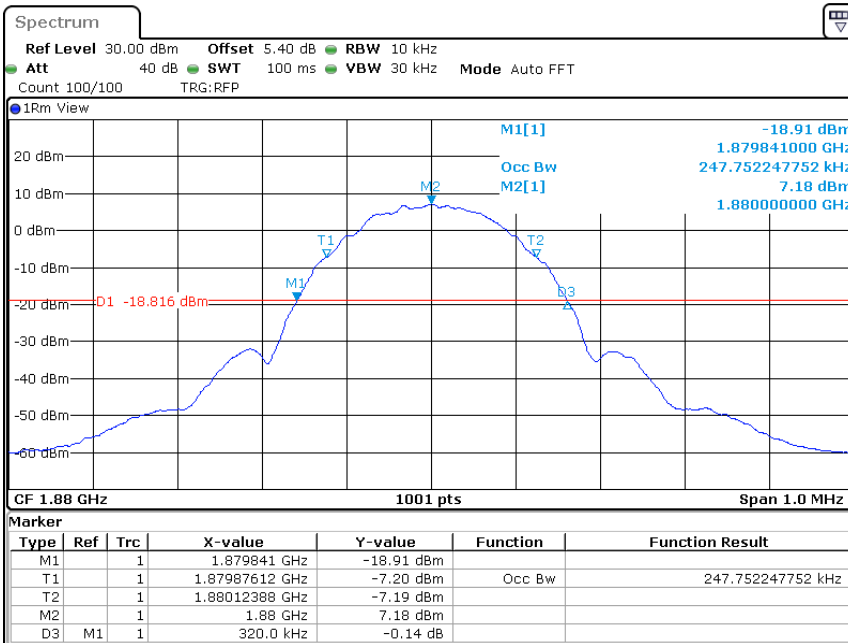
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**EGPRS1900-512**



Date: 16 MAY 2021 21:56:04

**EGPRS1900-661**



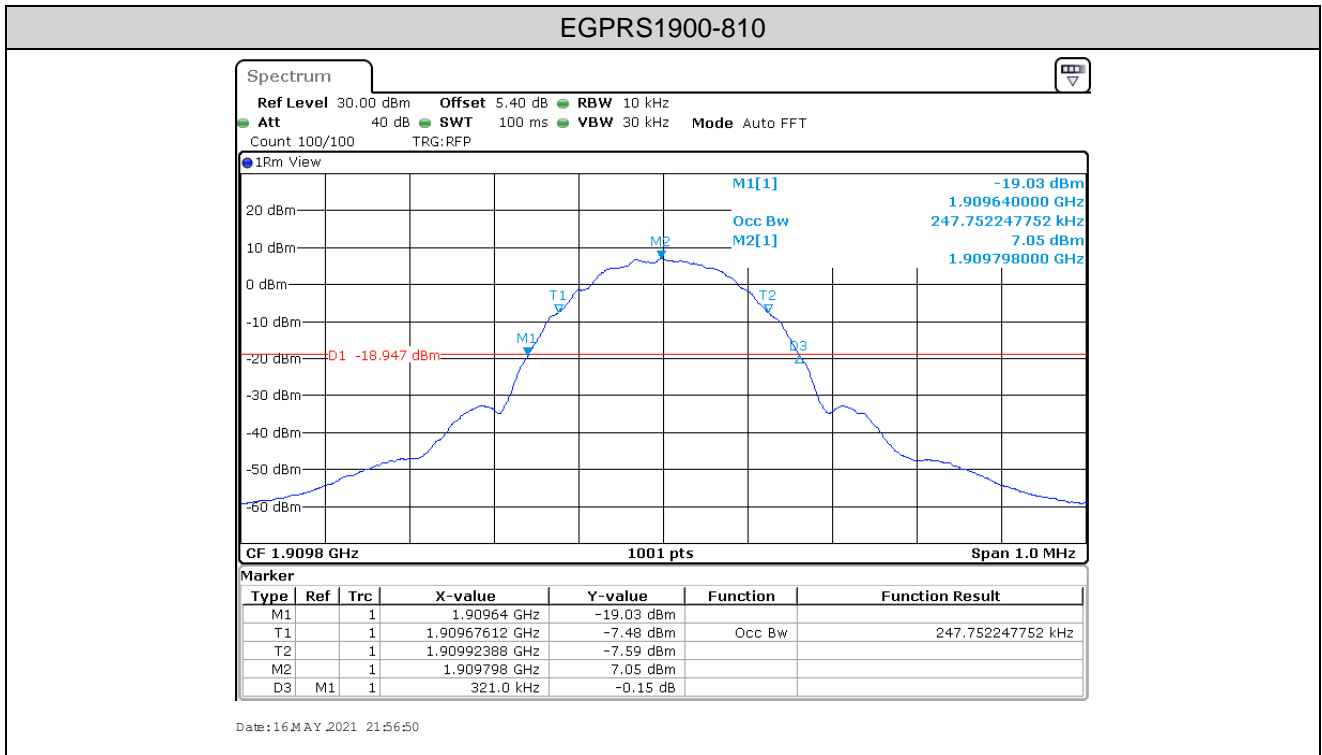
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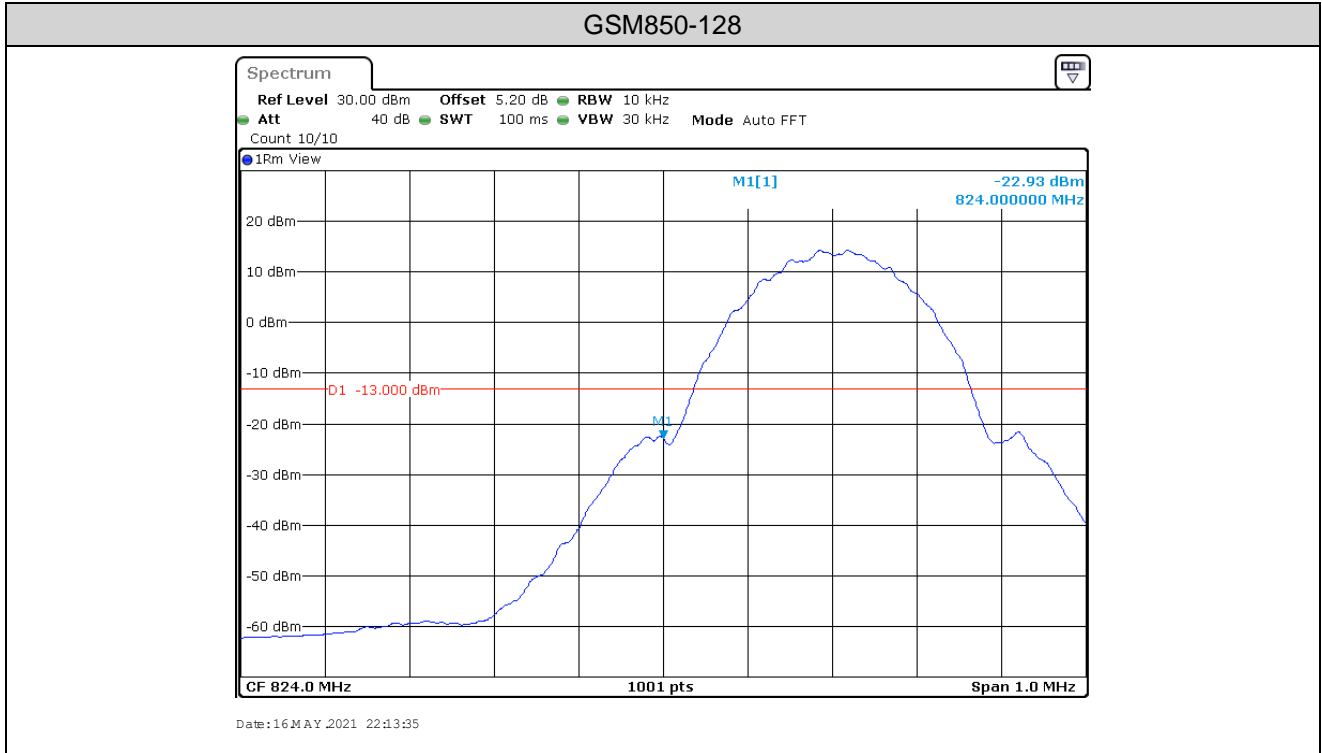
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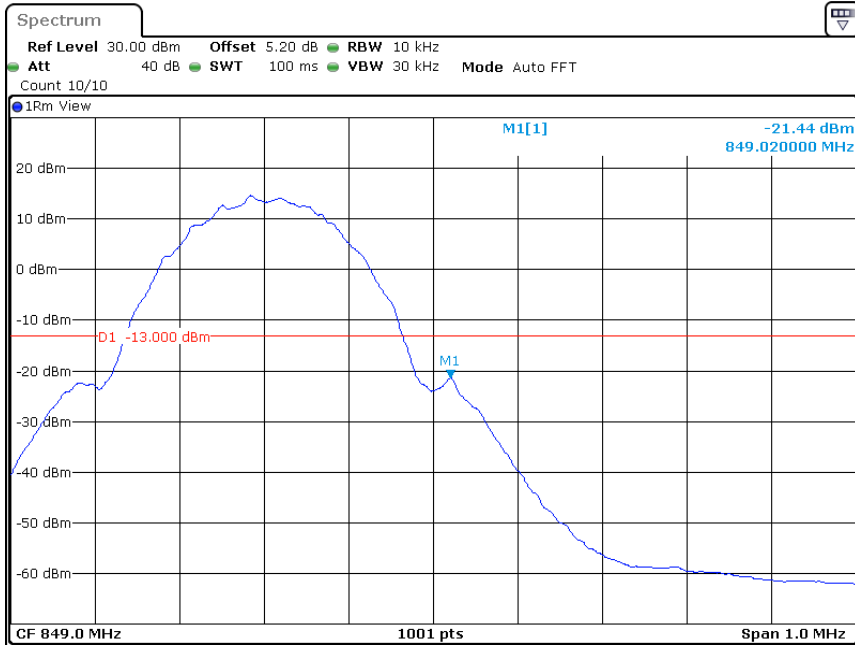
## 5. Band Edge Compliance

### 5.1. Test Plots



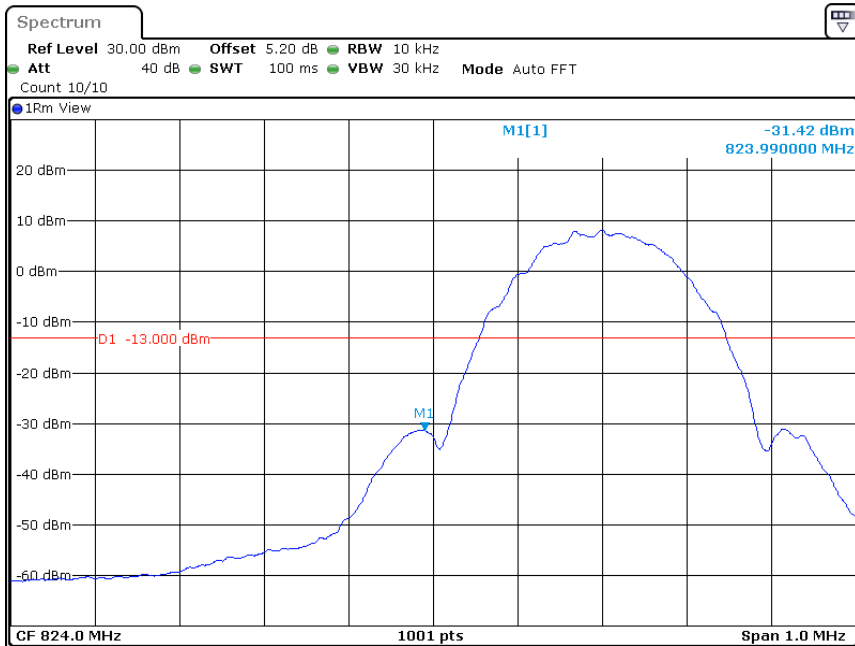
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**GSM850-251**



Date: 16 MAY 2021 22:13:49

**EGPRS850-128**



Date: 16 MAY 2021 22:22:23



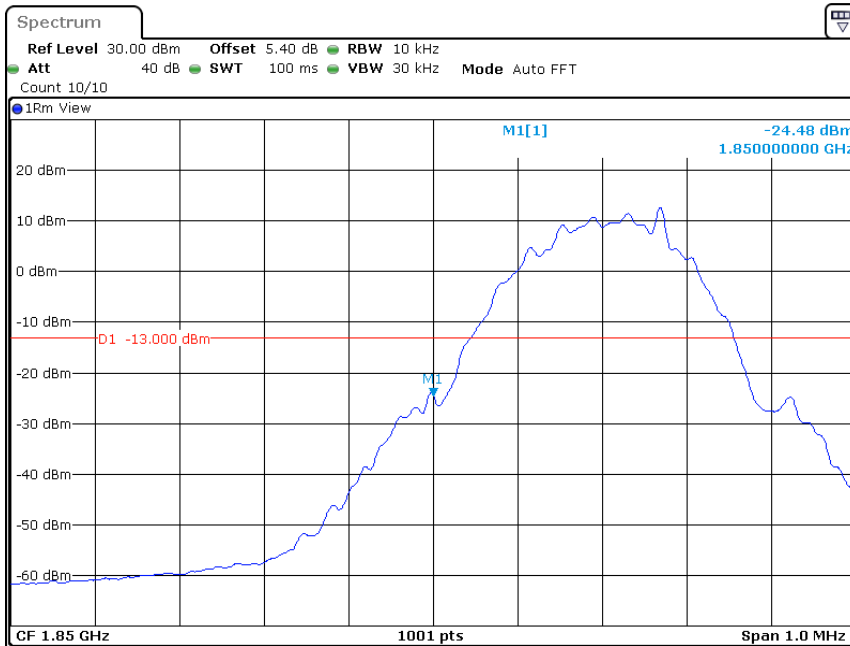
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**EGPRS850-251**



Date: 16 MAY 2021 22:22:37

**GSM1900-512**



Date: 16 MAY 2021 21:48:25



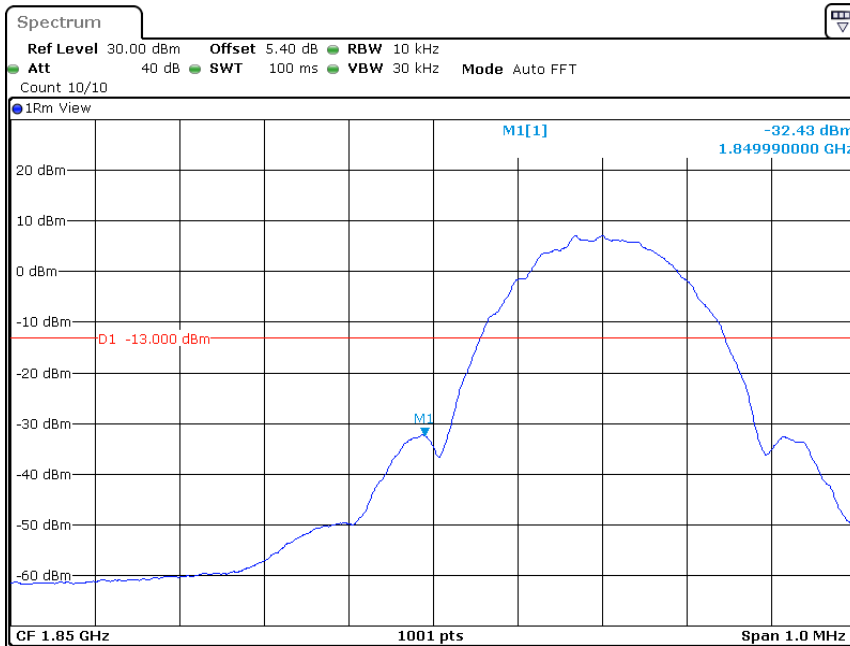
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**GSM1900-810**



Date: 16 MAY 2021 21:48:39

**EGPRS1900-512**

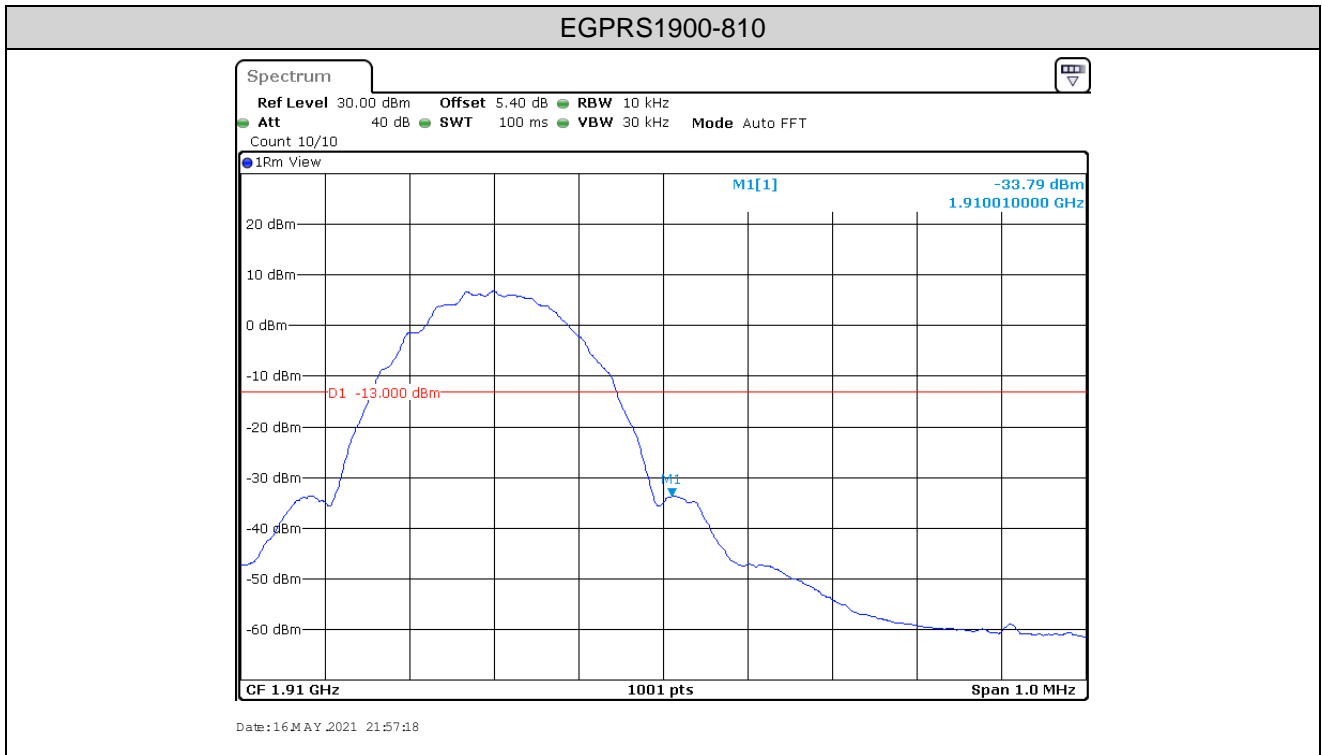


Date: 16 MAY 2021 21:57:05



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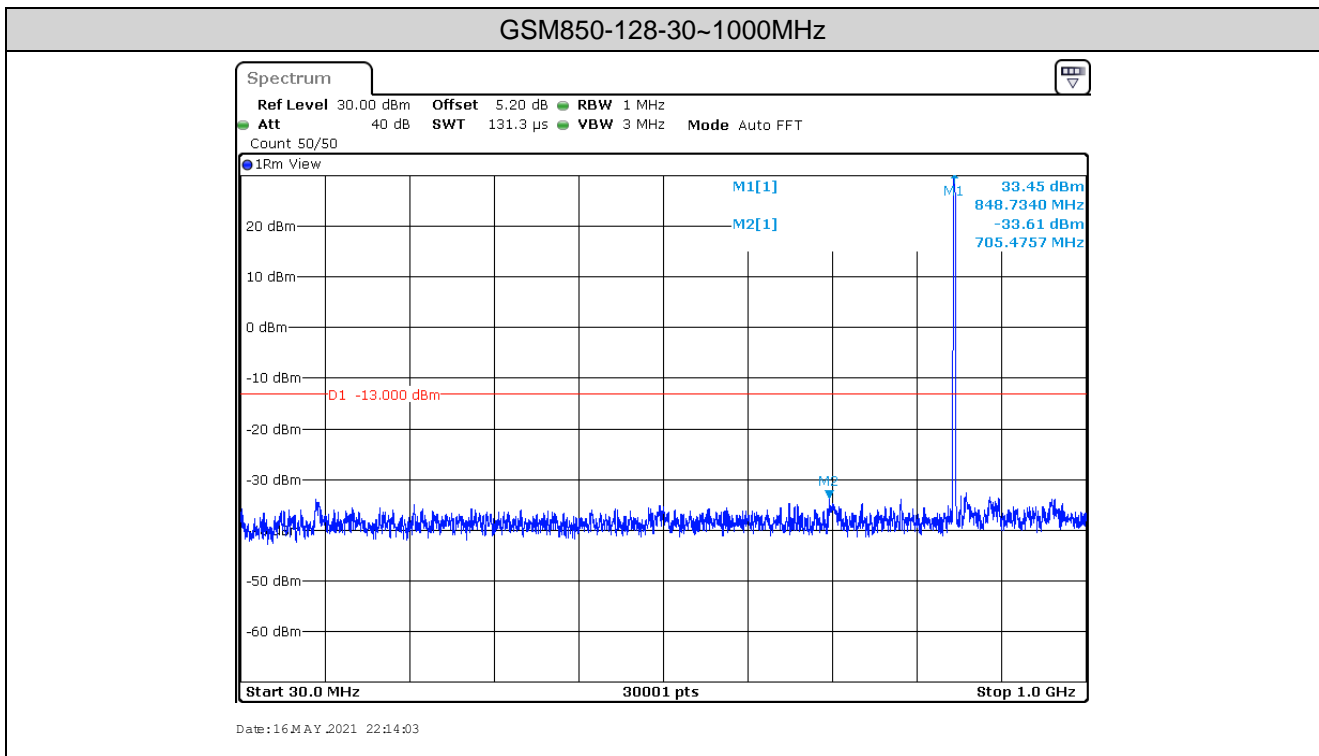
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## 6. Spurious Emission at Antenna Terminal

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.

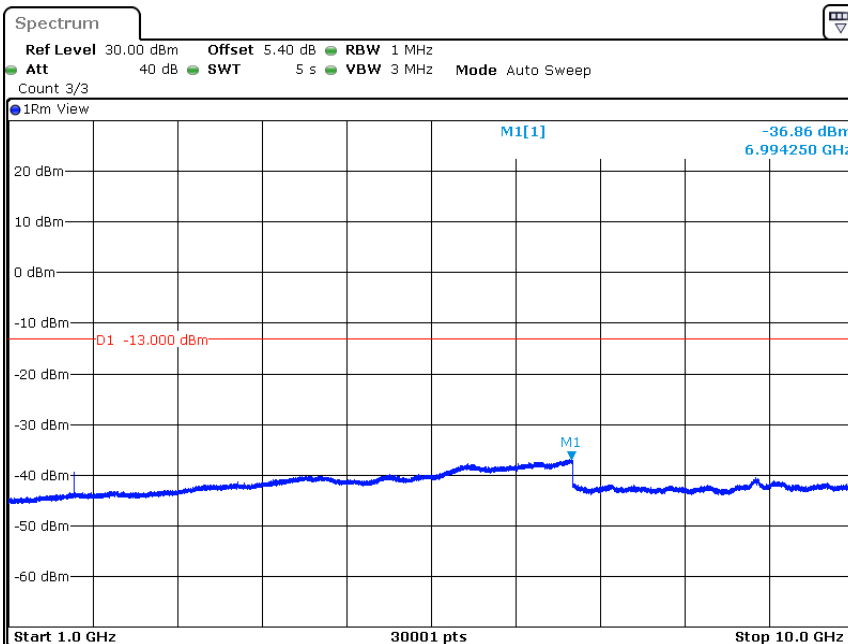
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots



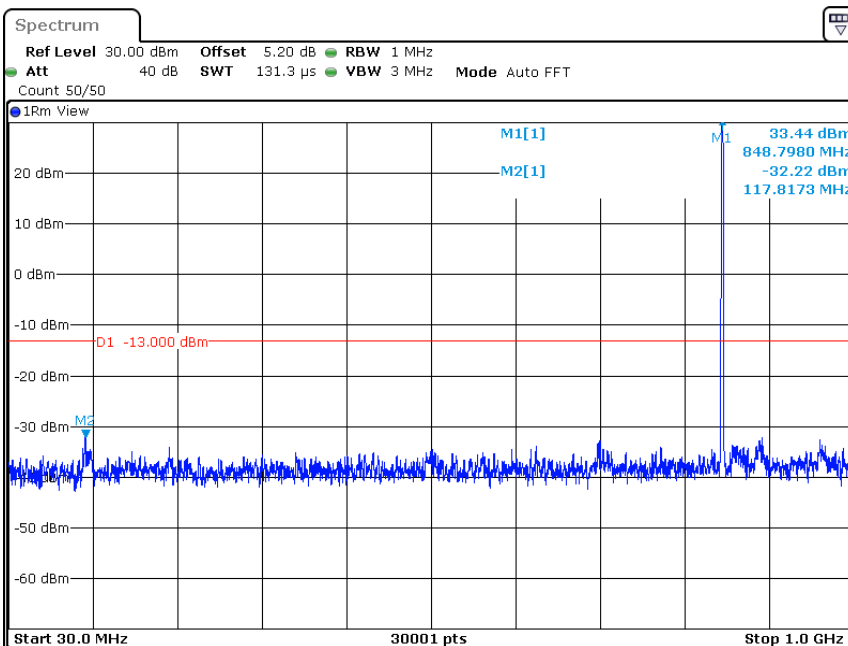
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**GSM850-128-1000~10000MHz**



Date: 16 MAY 2021 22:14:27

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

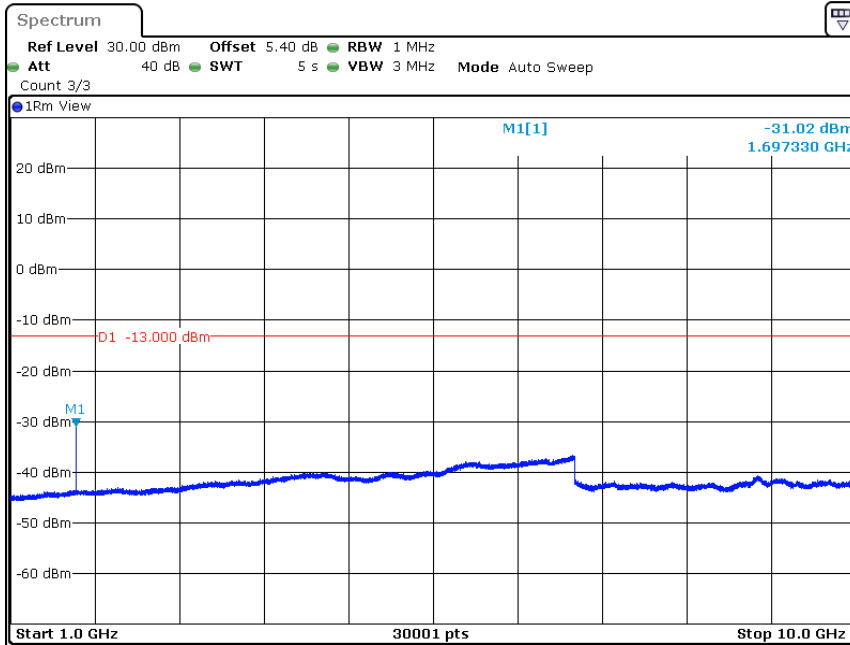


Date: 16 MAY 2021 22:14:41



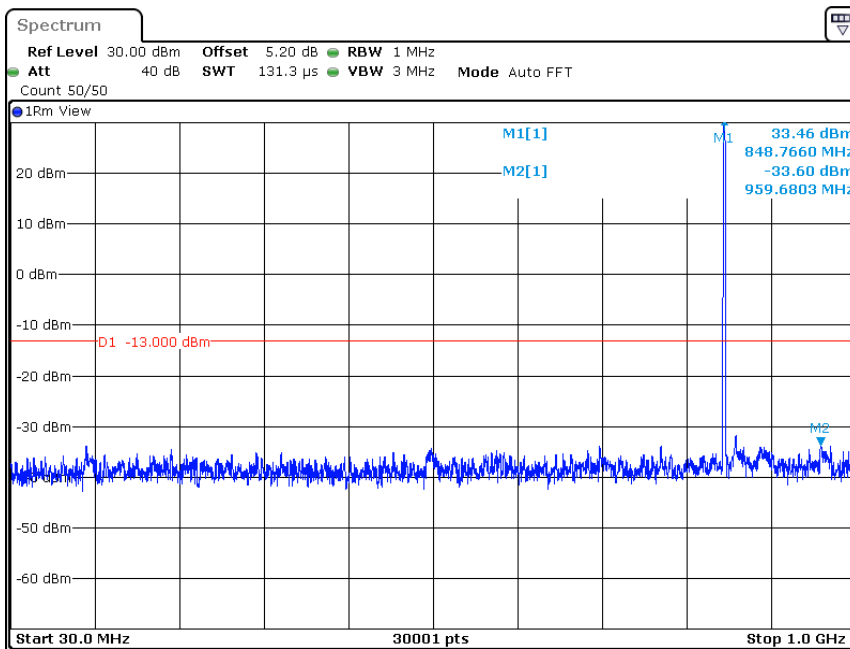
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**GSM850-190-1000~10000MHz**



Date: 16 MAY 2021 22:15:05

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



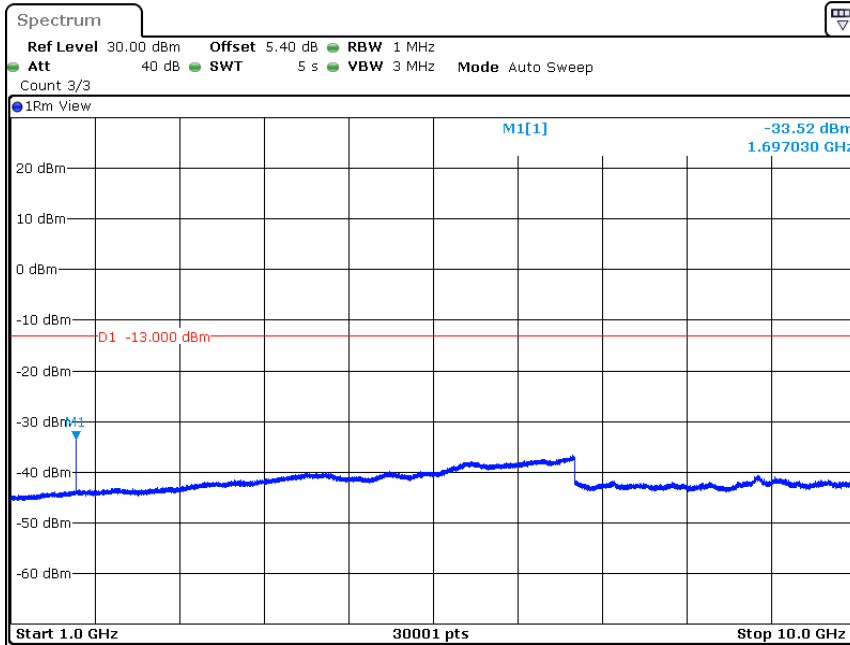
Date: 16 MAY 2021 22:15:19



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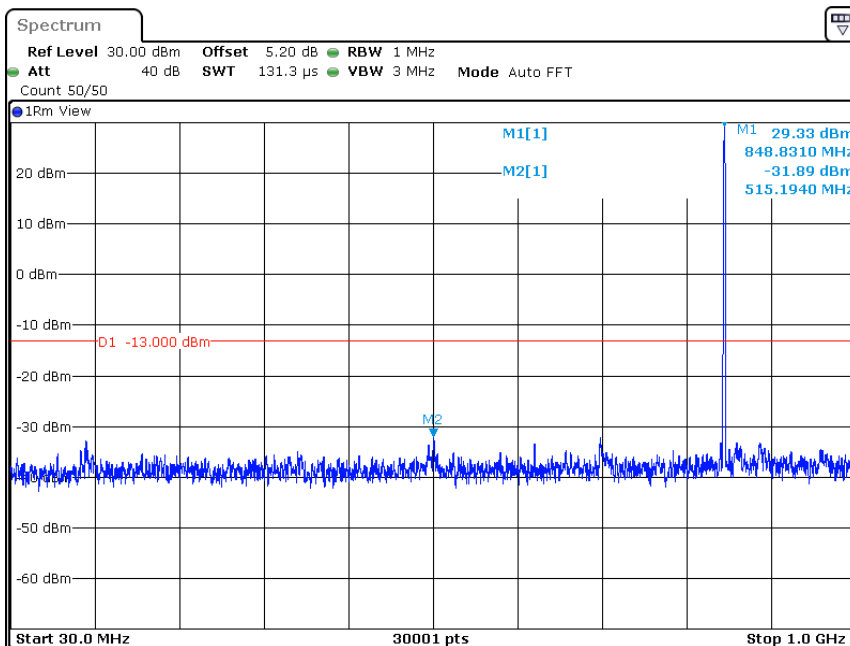


**GSM850-251-1000~10000MHz**



Date: 16 MAY 2021 22:15:43

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



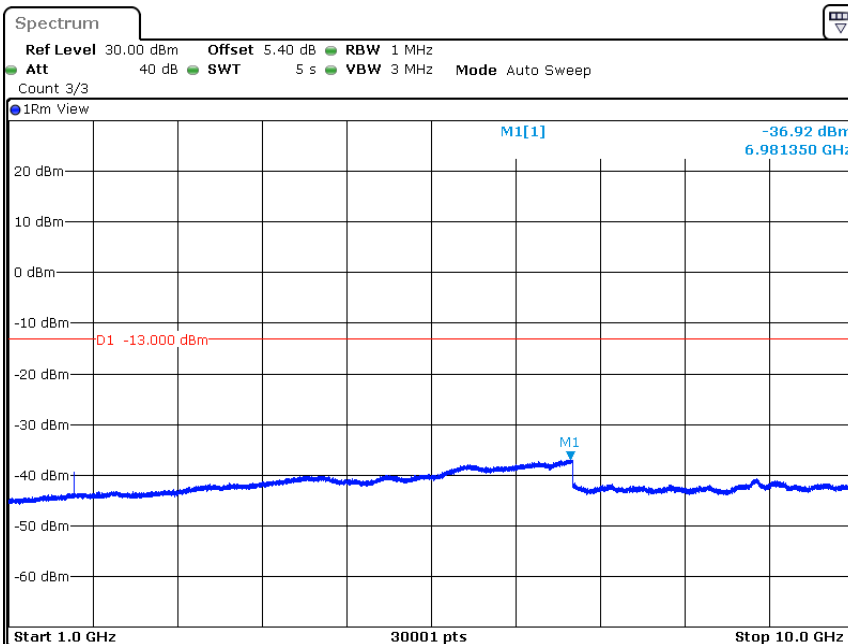
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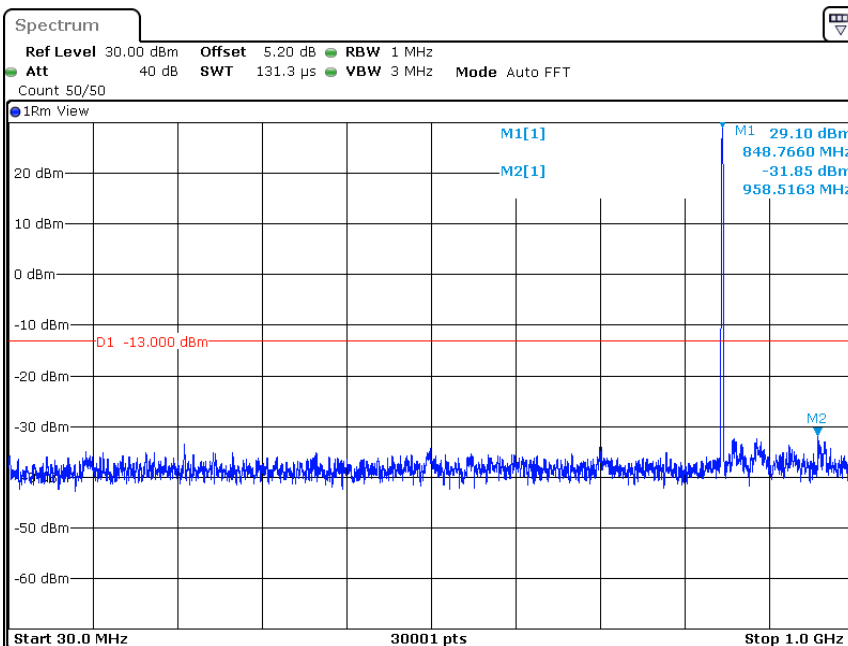
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**EGPRS850-128-1000~10000MHz**



Date: 16 MAY 2021 22:23:15

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



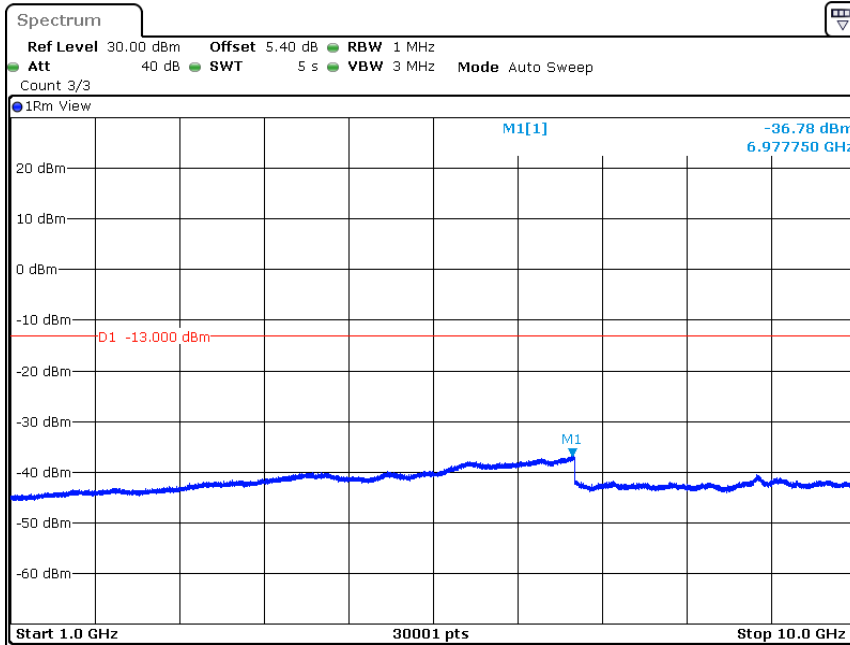
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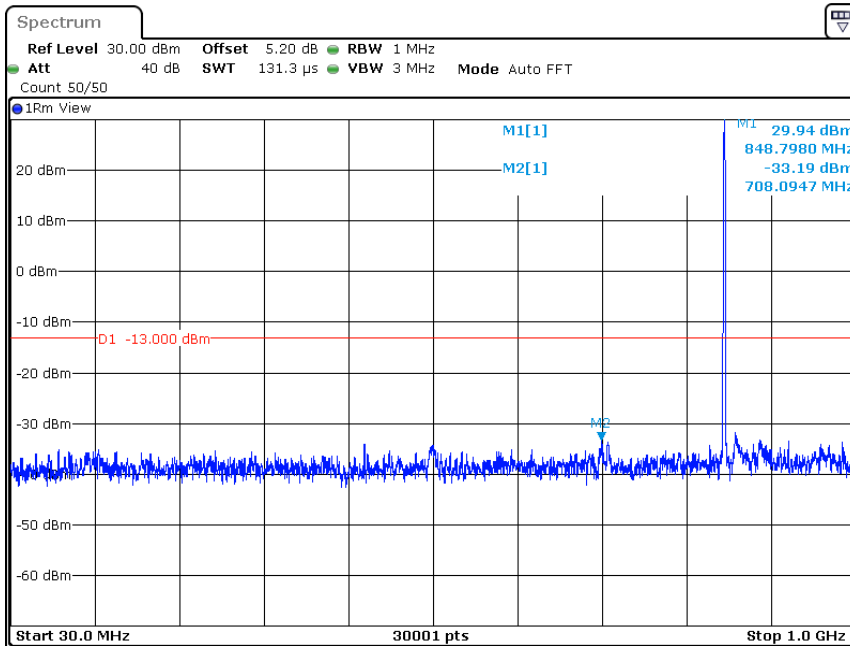
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**EGPRS850-190-1000~10000MHz**



Date: 16 MAY 2021 22:23:52

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

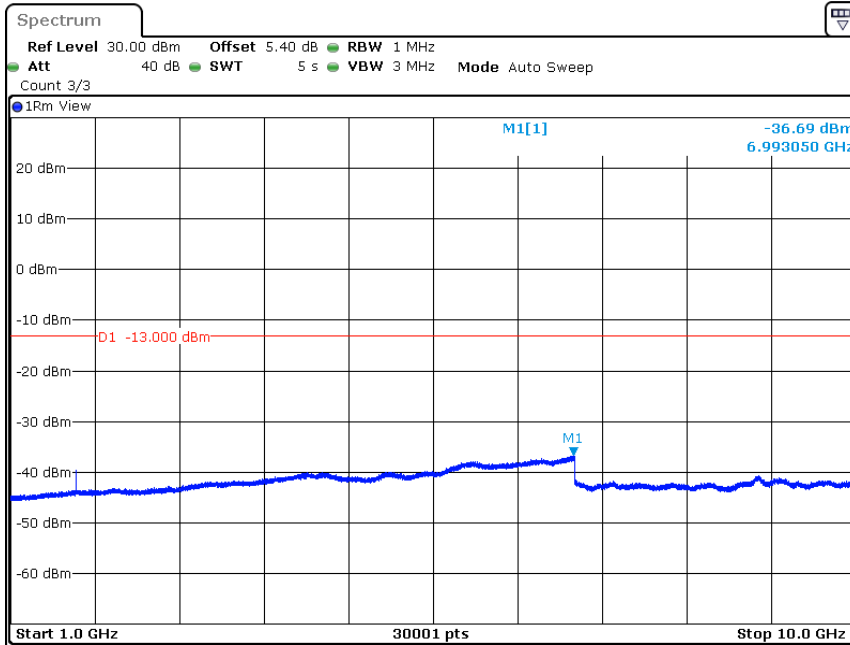


Date: 16 MAY 2021 22:24:05



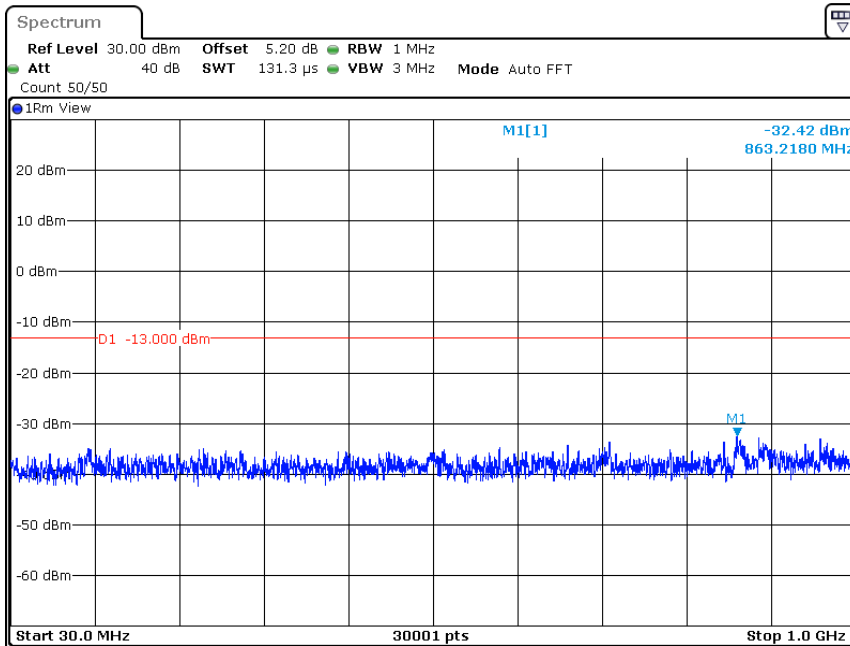
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**EGPRS850-251-1000~10000MHz**



Date: 16 MAY 2021 22:24:30

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

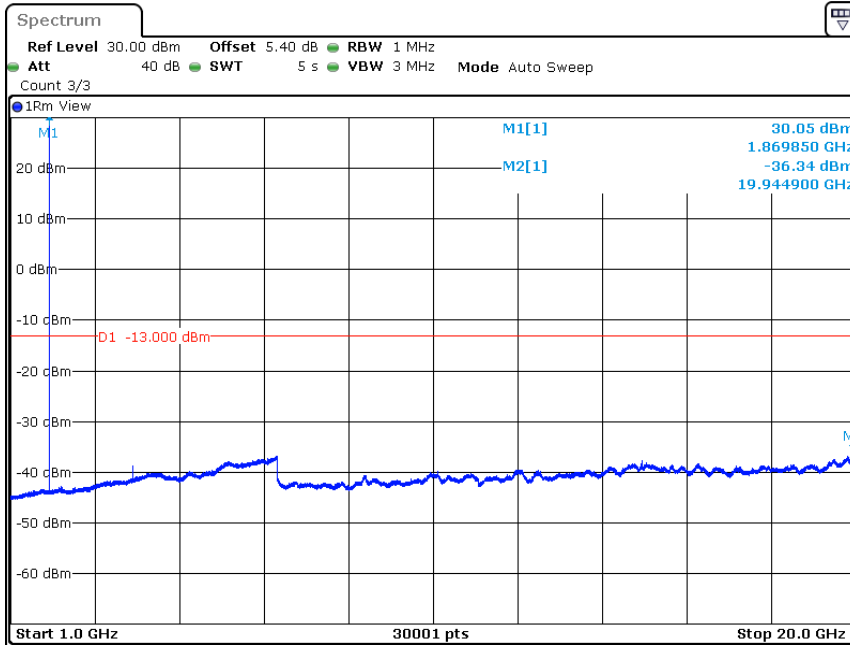


Date: 16 MAY 2021 22:04:05



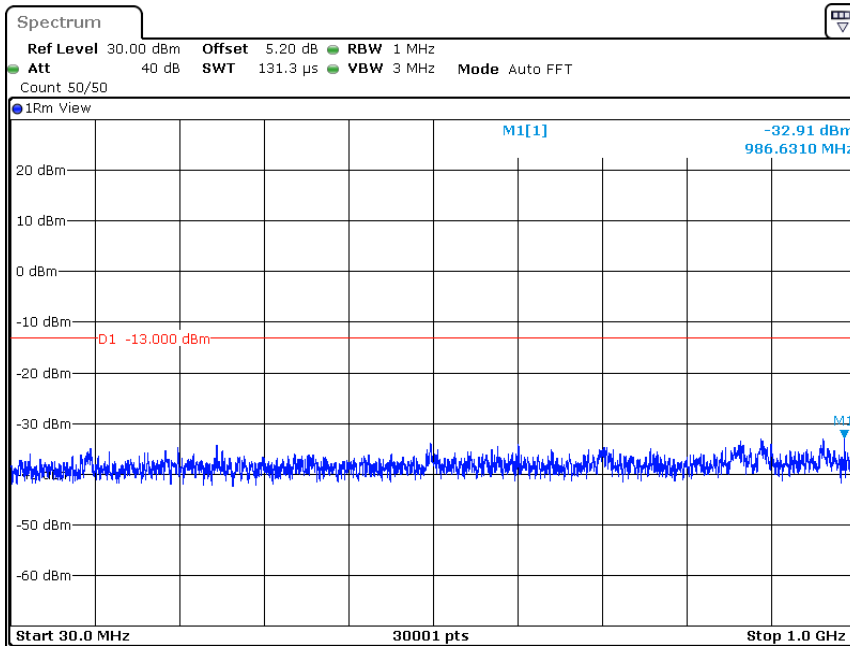
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**GSM1900-512-1000~20000MHz**



Date: 16 MAY 2021 22:05:00

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

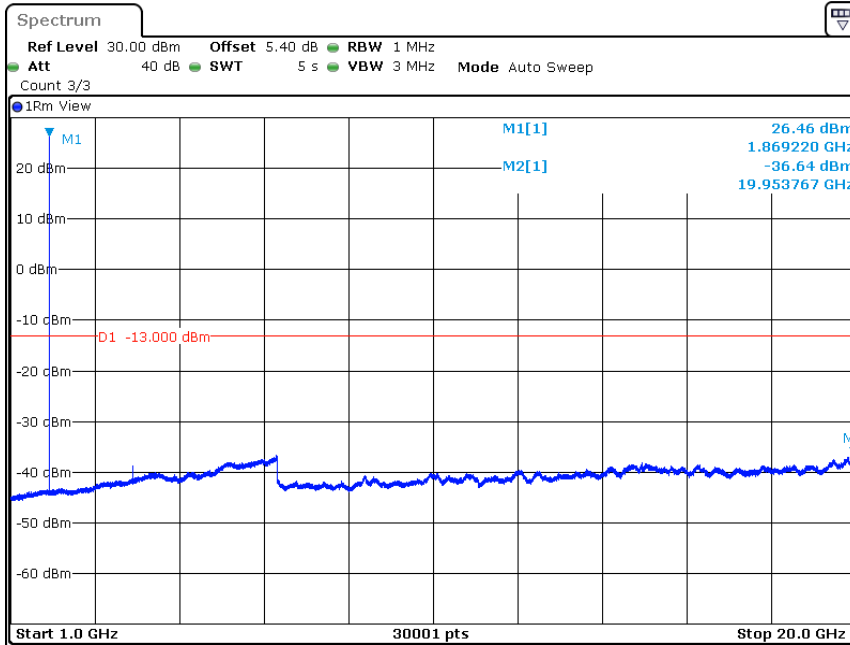


Date: 16 MAY 2021 22:05:13



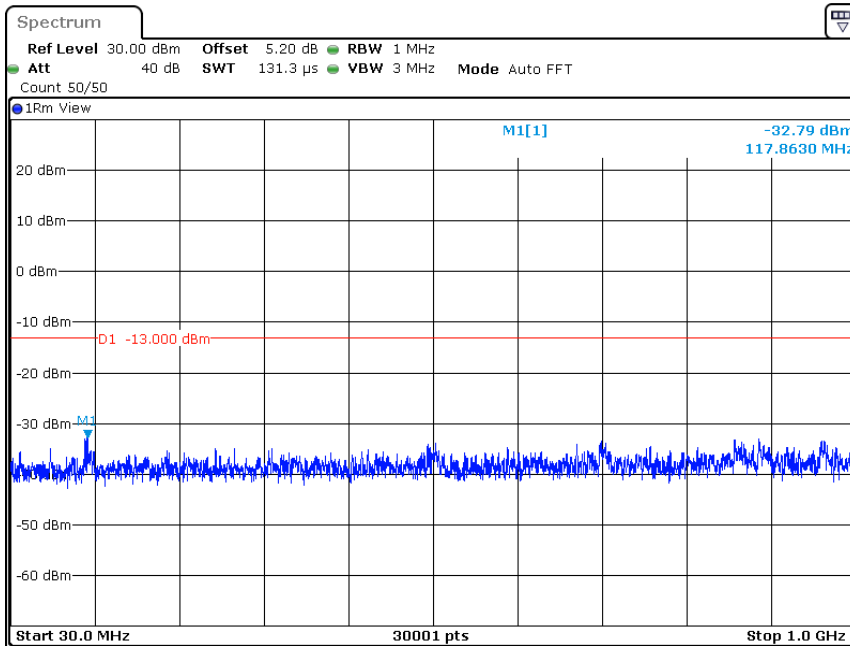
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**GSM1900-661-1000~20000MHz**



Date: 16 MAY 2021 22:05:38

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

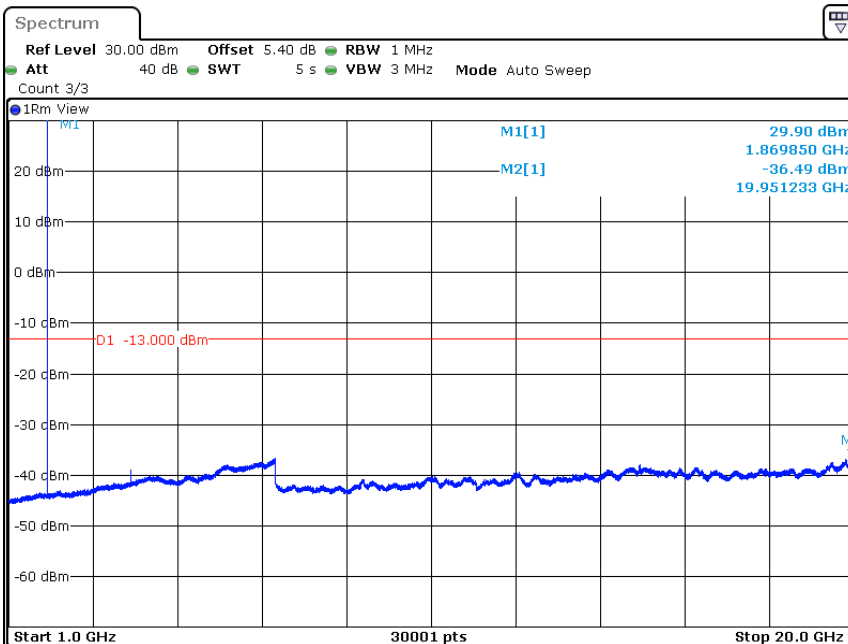


Date: 16 MAY 2021 22:05:51



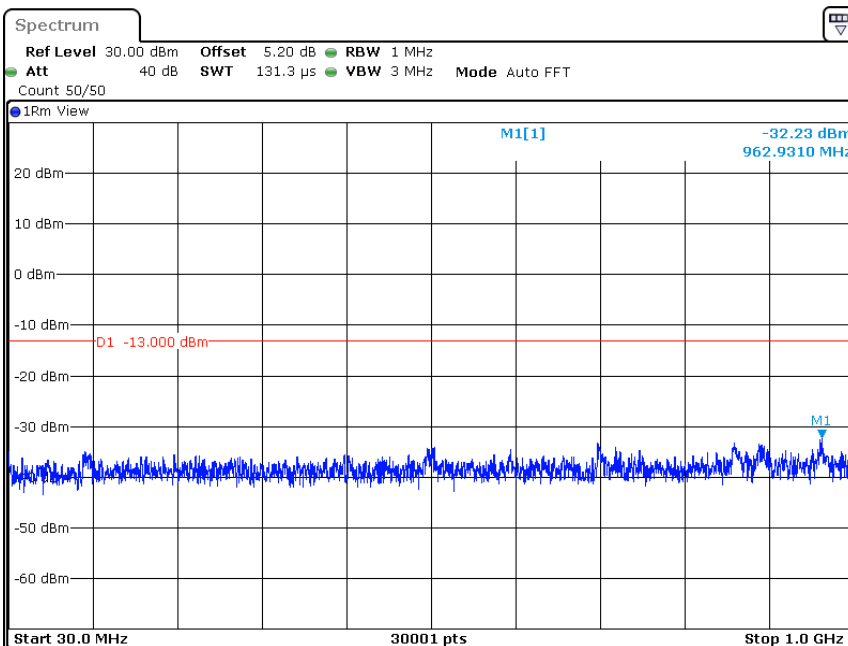
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**GSM1900-810-1000~20000MHz**



Date: 16 MAY 2021 22:06:16

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

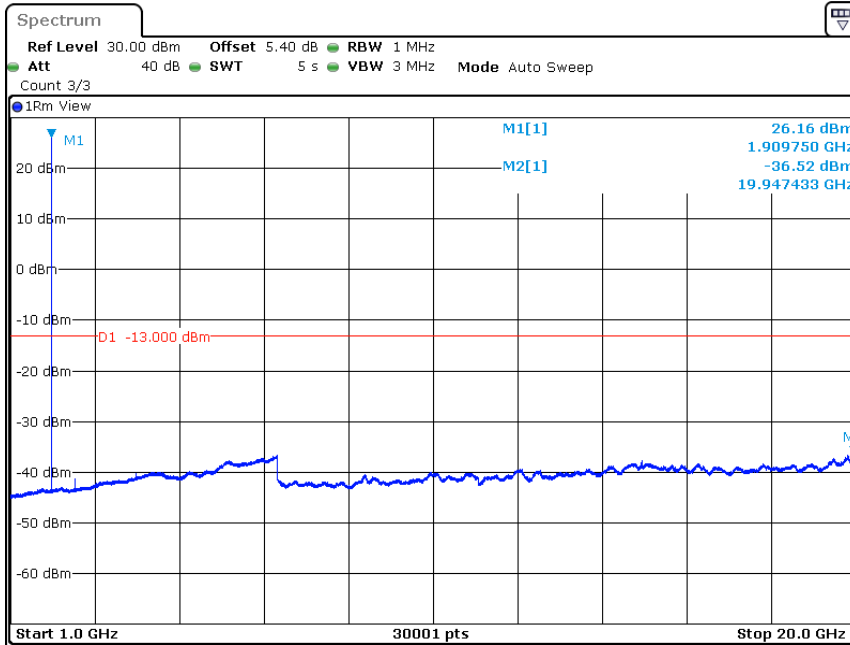


Date: 16 MAY 2021 21:57:31



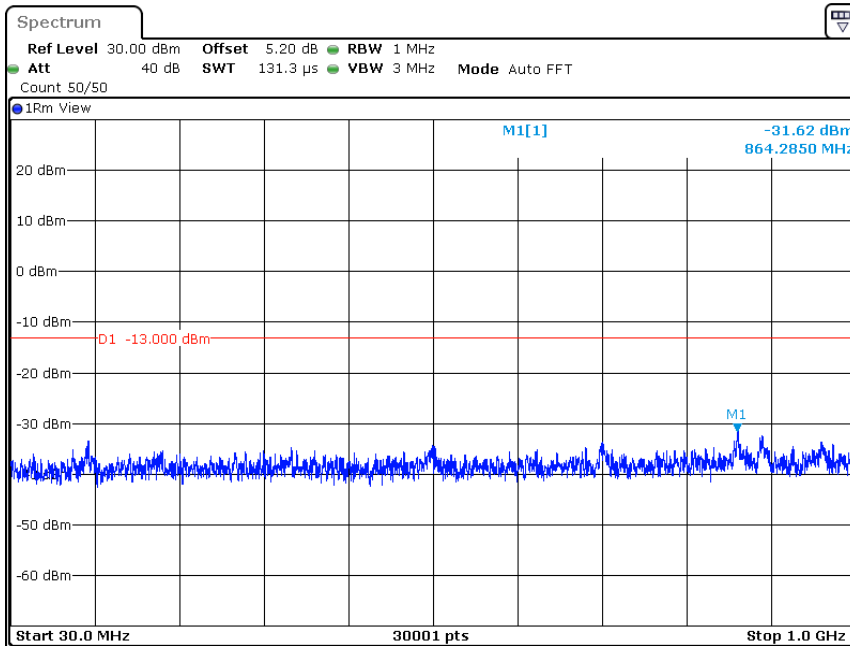
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**EGPRS1900-512-1000~20000MHz**



Date: 16 MAY 2021 22:01:51

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



Date: 16 MAY 2021 22:02:03

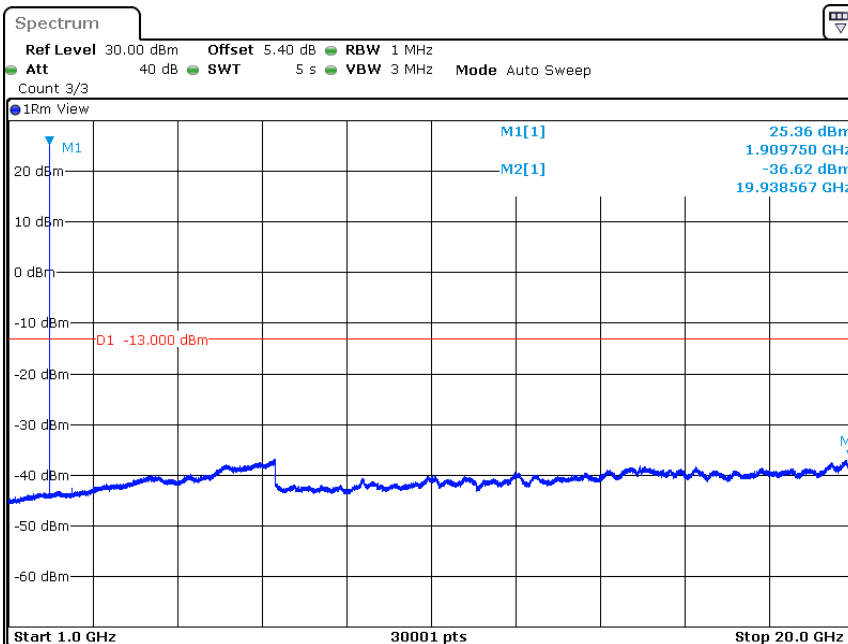


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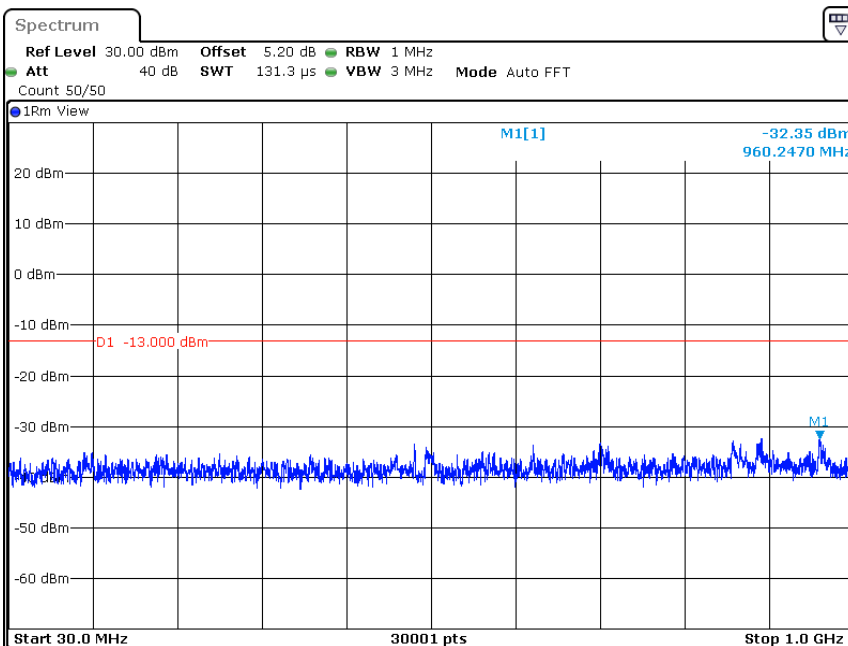


**EGPRS1900-661-1000~20000MHz**



Date: 16 MAY 2021 22:02:28

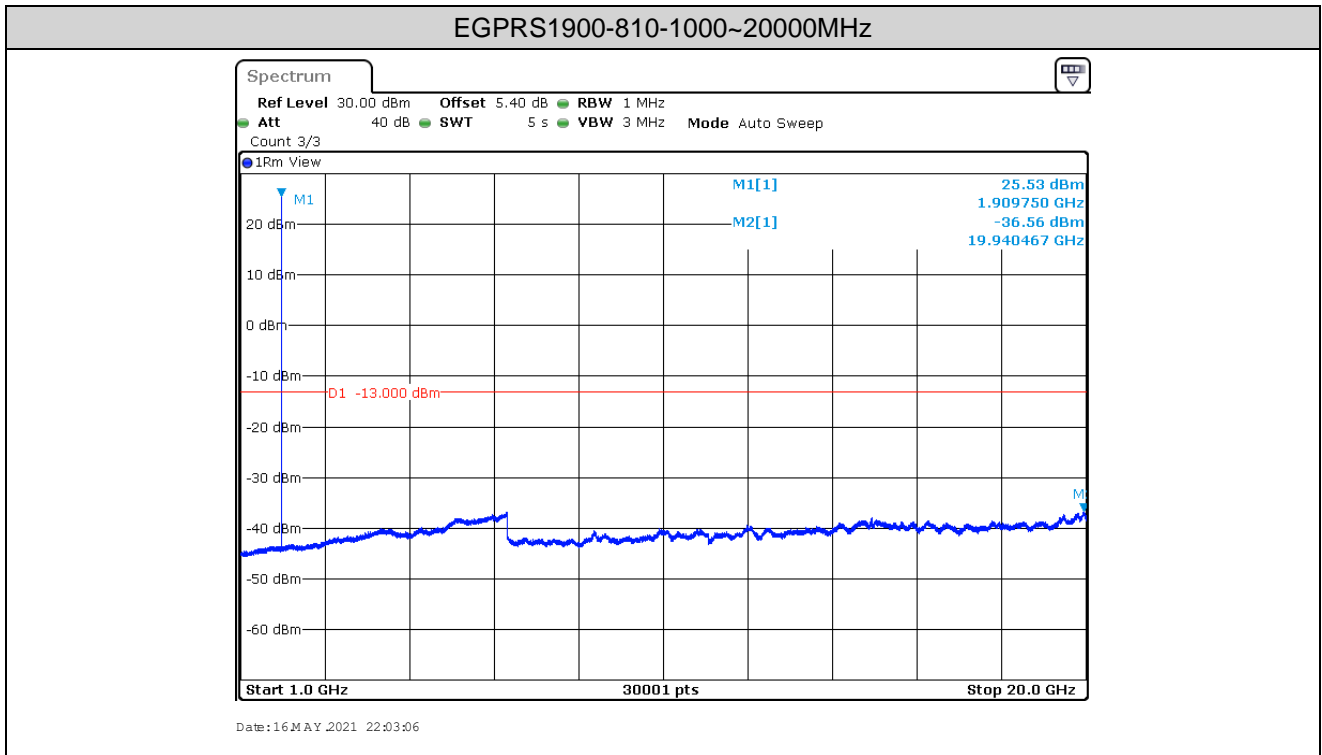
**EGPRS1900-810-30~1000MHz**



Date: 16 MAY 2021 22:02:40



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = \_ GSM 850 ANT0

#### 7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1170.3085	21.79	-67.06	-13.00	54.06	Horizontal
2	1738.4369	38.11	-51.08	-13.00	38.08	Horizontal
3	2987.4994	21.89	-61.04	-13.00	48.04	Horizontal
4	4623.0312	50.66	-60.86	-13.00	47.86	Horizontal
5	7385.3693	49.13	-53.91	-13.00	40.91	Horizontal
6	9549.1775	46.66	-52.09	-13.00	39.09	Horizontal



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**7.2. Test Band = \_ GSM 850 ANT0**

**7.2.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1212.0106	22.15	-67.00	-13.00	54.00	Vertical
2	1738.5369	32.75	-56.44	-13.00	43.44	Vertical
3	2979.6990	21.87	-61.10	-13.00	48.10	Vertical
4	5388.8694	48.73	-59.78	-13.00	46.78	Vertical
5	7471.8236	48.34	-53.92	-13.00	40.92	Vertical
6	9558.6279	46.62	-52.04	-13.00	39.04	Vertical



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**7.3. Test Band = \_ GSM 850 ANT0**

**7.3.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1013.0007	21.90	-65.54	-13.00	52.54	Horizontal
2	1673.1337	22.41	-66.60	-13.00	53.60	Horizontal
3	2971.4986	22.16	-60.86	-13.00	47.86	Horizontal
4	5404.9702	48.86	-59.57	-13.00	46.57	Horizontal
5	7470.7735	48.79	-53.48	-13.00	40.48	Horizontal
6	9075.2538	47.59	-51.81	-13.00	38.81	Horizontal



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**7.4. Test Band = \_ GSM 850 ANT0**

**7.4.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1014.3007	21.31	-66.18	-13.00	53.18	Vertical
2	1972.7486	22.56	-65.23	-13.00	52.23	Vertical
3	2979.8990	21.83	-61.14	-13.00	48.14	Vertical
4	4248.5124	50.82	-61.82	-13.00	48.82	Vertical
5	5542.1771	49.42	-58.49	-13.00	45.49	Vertical
6	9016.4508	47.29	-51.70	-13.00	38.70	Vertical



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**7.5. Test Band = \_ GSM 850 ANT0**

**7.5.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1041.7021	21.92	-66.68	-13.00	53.68	Horizontal
2	1720.7360	30.56	-58.47	-13.00	45.47	Horizontal
3	2619.8810	26.31	-58.69	-13.00	45.69	Horizontal
4	4570.1785	51.18	-60.53	-13.00	47.53	Horizontal
5	7485.8243	48.35	-53.80	-13.00	40.80	Horizontal
6	9598.5299	46.41	-51.83	-13.00	38.83	Horizontal



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**7.6. Test Band = \_ GSM 850 ANT0**

**7.6.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1000.3000	21.37	-65.55	-13.00	52.55	Vertical
2	1508.3254	21.52	-67.33	-13.00	54.33	Vertical
3	2737.9869	22.33	-61.90	-13.00	48.90	Vertical
4	3723.1362	52.69	-62.28	-13.00	49.28	Vertical
5	6500.5250	47.87	-56.49	-13.00	43.49	Vertical
6	9011.9006	47.17	-51.80	-13.00	38.80	Vertical



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**7.7. Test Band =\_GSM 1900 ANT3**

**7.7.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1261.7827	20.84	-49.54	-13.00	36.54	Horizontal
2	2746.9684	20.88	-44.86	-13.00	31.86	Horizontal
3	4206.0603	51.00	-61.75	-13.00	48.75	Horizontal
4	7470.9735	48.34	-53.93	-13.00	40.93	Horizontal
5	12398.719	45.55	-48.63	-13.00	35.63	Horizontal
6	17918.245	46.91	-46.03	-13.00	33.03	Horizontal



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**7.8. Test Band = GSM 1900 ANT3**

**7.8.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1376.7971	20.54	-49.64	-13.00	36.64	Vertical
2	2772.9716	20.93	-44.92	-13.00	31.92	Vertical
3	4550.3275	51.45	-60.41	-13.00	47.41	Vertical
4	8440.7720	48.11	-52.98	-13.00	39.98	Vertical
5	12882.494	45.29	-48.22	-13.00	35.22	Vertical
6	17989.499	47.40	-46.26	-13.00	33.26	Vertical



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**7.9. Test Band =\_GSM 1900 ANT3**

**7.9.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1170.0213	20.96	-49.27	-13.00	36.27	Horizontal
2	2964.9956	21.27	-43.57	-13.00	30.57	Horizontal
3	4905.8453	49.92	-60.28	-13.00	47.28	Horizontal
4	9032.5516	47.41	-51.65	-13.00	38.65	Horizontal
5	13820.041	45.27	-47.27	-13.00	34.27	Horizontal
6	18000.000	47.69	-46.19	-13.00	33.19	Horizontal



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**7.10. Test Band = GSM 1900 ANT3**

**7.10.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1509.5637	20.44	-49.39	-13.00	36.39	Vertical
2	2925.4907	20.92	-43.86	-13.00	30.86	Vertical
3	4508.3254	50.64	-61.15	-13.00	48.15	Vertical
4	7471.7236	48.13	-54.13	-13.00	41.13	Vertical
5	13358.767	45.13	-47.62	-13.00	34.62	Vertical
6	17991.749	47.50	-46.21	-13.00	33.21	Vertical



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**7.11. Test Band = GSM 1900 ANT3**

**7.11.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1444.8056	20.30	-49.82	-13.00	36.82	Horizontal
2	2547.1934	21.37	-45.50	-13.00	32.50	Horizontal
3	4647.8324	50.73	-60.83	-13.00	47.83	Horizontal
4	7461.9731	48.19	-54.15	-13.00	41.15	Horizontal
5	11196.4098	46.32	-49.32	-13.00	36.32	Horizontal
6	16395.669	46.97	-46.86	-13.00	33.86	Horizontal



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**7.12. Test Band = GSM 1900 ANT3**

**7.12.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1242.2803	20.84	-49.63	-13.00	36.63	Vertical
2	2479.6850	21.13	-45.65	-13.00	32.65	Vertical
3	4233.8117	50.84	-61.84	-13.00	48.84	Vertical
4	7479.9740	48.51	-53.69	-13.00	40.69	Vertical
5	11926.1963	45.75	-48.78	-13.00	35.78	Vertical
6	17975.998	47.03	-46.35	-13.00	33.35	Vertical



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**7.13. Test Band = GSM 850 ANT1**

**7.13.1. Test Channel = Low**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1088.5044	21.72	-67.43	-13.00	54.43	Horizontal
2	1928.5464	21.97	-66.07	-13.00	53.07	Horizontal
3	2949.4975	22.13	-61.00	-13.00	48.00	Horizontal
4	4503.6752	51.52	-60.26	-13.00	47.26	Horizontal
5	5664.3332	50.40	-56.84	-13.00	43.84	Horizontal
6	9850.5425	46.74	-51.54	-13.00	38.54	Horizontal



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**7.14. Test Band =\_GSM 850 ANT1**

**7.14.1. Test Channel = Low**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1060.1030	21.52	-67.47	-13.00	54.47	Vertical
2	1938.0469	23.76	-64.20	-13.00	51.20	Vertical
3	2982.6991	22.10	-60.86	-13.00	47.86	Vertical
4	5002.8001	50.34	-59.06	-13.00	46.06	Vertical
5	7478.1239	49.02	-53.19	-13.00	40.19	Vertical
6	9523.9762	47.72	-50.98	-13.00	37.98	Vertical



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**7.15. Test Band = GSM 850 ANT1**

**7.15.1. Test Channel = Mid**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1938.4469	31.30	-56.65	-13.00	43.65	Horizontal
2	2509.7755	30.09	-55.50	-13.00	42.50	Horizontal
3	2985.7993	21.98	-60.96	-13.00	47.96	Horizontal
4	4159.2580	50.96	-61.84	-13.00	48.84	Horizontal
5	5699.6850	49.80	-56.99	-13.00	43.99	Horizontal
6	9583.4792	47.02	-51.38	-13.00	38.38	Horizontal



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**7.16. Test Band = GSM 850 ANT1**

**7.16.1. Test Channel = Mid**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1099.9050	21.88	-67.33	-13.00	54.33	Vertical
2	1938.4469	35.58	-52.37	-13.00	39.37	Vertical
3	2509.7755	26.23	-59.36	-13.00	46.36	Vertical
4	3811.6906	52.32	-62.33	-13.00	49.33	Vertical
5	5689.1845	49.56	-57.36	-13.00	44.36	Vertical
6	9880.2940	46.80	-51.47	-13.00	38.47	Vertical



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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

**7.17. Test Band =\_GSM 850 ANT1**

**7.17.1. Test Channel = High**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1000.3000	20.96	-65.96	-13.00	52.96	Horizontal
2	1704.5352	22.00	-66.89	-13.00	53.89	Horizontal
3	2546.3773	31.84	-53.31	-13.00	40.31	Horizontal
4	3897.4449	51.83	-62.07	-13.00	49.07	Horizontal
5	6508.9254	49.13	-55.40	-13.00	42.40	Horizontal
6	9936.6468	46.41	-51.81	-13.00	38.81	Horizontal



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**7.18. Test Band = GSM 850 ANT1**

**7.18.1. Test Channel = High**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1147.6074	21.79	-66.98	-13.00	53.98	Vertical
2	1938.9469	36.68	-51.27	-13.00	38.27	Vertical
3	2546.4773	25.85	-59.30	-13.00	46.30	Vertical
4	3619.8810	52.08	-62.86	-13.00	49.86	Vertical
5	6770.0385	48.75	-55.43	-13.00	42.43	Vertical
6	9869.4435	46.47	-51.81	-13.00	38.81	Vertical



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**7.19. Test Band = GSM 1900 ANT4**

**7.19.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1025.0031	20.52	-50.37	-13.00	37.37	Horizontal
2	1555.8195	20.74	-49.56	-13.00	36.56	Horizontal
3	2984.4981	20.94	-43.80	-13.00	30.80	Horizontal
4	4198.5599	50.82	-61.94	-13.00	48.94	Horizontal
5	7469.4735	48.96	-53.32	-13.00	40.32	Horizontal
6	17968.498	47.62	-45.60	-13.00	32.60	Horizontal



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**7.20. Test Band = GSM 1900 ANT4**

**7.20.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1014.2518	20.47	-50.59	-13.00	37.59	Vertical
2	1438.5548	20.18	-49.84	-13.00	36.84	Vertical
3	2960.4951	21.45	-43.30	-13.00	30.30	Vertical
4	4050.8025	51.72	-62.17	-13.00	49.17	Vertical
5	7483.7242	49.06	-53.10	-13.00	40.10	Vertical
6	17994.749	48.45	-45.32	-13.00	32.32	Vertical



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**7.21. Test Band = GSM 1900 ANT4**

**7.21.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1026.7533	20.68	-50.20	-13.00	37.20	Horizontal
2	1461.0576	20.44	-49.71	-13.00	36.71	Horizontal
3	2996.7496	21.05	-43.50	-13.00	30.50	Horizontal
4	4289.3145	50.91	-61.90	-13.00	48.90	Horizontal
5	7467.2234	48.80	-53.50	-13.00	40.50	Horizontal
6	17982.749	47.80	-45.72	-13.00	32.72	Horizontal



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**7.22. Test Band = GSM 1900 ANT4**

**7.22.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1060.0075	20.50	-50.26	-13.00	37.26	Vertical
2	1633.8292	20.66	-49.59	-13.00	36.59	Vertical
3	2996.7496	20.74	-43.81	-13.00	30.81	Vertical
4	4132.5566	50.80	-62.30	-13.00	49.30	Vertical
5	7487.4744	48.66	-53.47	-13.00	40.47	Vertical
6	17913.745	47.38	-45.57	-13.00	32.57	Vertical



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**7.23. Test Band =\_GSM 1900 ANT4**

**7.23.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1090.7613	20.82	-49.58	-13.00	36.58	Horizontal
2	1512.5641	20.76	-49.15	-13.00	36.15	Horizontal
3	2947.7435	20.91	-43.80	-13.00	30.80	Horizontal
4	4366.5683	51.25	-61.33	-13.00	48.33	Horizontal
5	7478.4739	49.06	-53.15	-13.00	40.15	Horizontal
6	17987.249	47.85	-45.76	-13.00	32.76	Horizontal



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**7.24. Test Band = GSM 1900 ANT4**

**7.24.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1086.2608	20.66	-49.63	-13.00	36.63	Vertical
2	1678.8349	20.74	-49.27	-13.00	36.27	Vertical
3	2998.9999	20.95	-43.53	-13.00	30.53	Vertical
4	4539.0770	50.97	-60.88	-13.00	47.88	Vertical
5	11799.4400	46.38	-48.78	-13.00	35.78	Vertical
6	17978.999	47.80	-45.64	-13.00	32.64	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	-1.94	-0.002354	±2.5	PASS
GSM850	128	VN	NT	-1.68	-0.002038	±2.5	PASS
GSM850	128	VH	NT	0.13	0.000158	±2.5	PASS
GSM850	190	VL	NT	1.23	0.001470	±2.5	PASS
GSM850	190	VN	NT	0.84	0.001004	±2.5	PASS
GSM850	190	VH	NT	1.74	0.002080	±2.5	PASS
GSM850	251	VL	NT	0.45	0.000530	±2.5	PASS
GSM850	251	VN	NT	-0.97	-0.001143	±2.5	PASS
GSM850	251	VH	NT	2.13	0.002509	±2.5	PASS
EGPRS850	128	VL	NT	1.68	0.002038	±2.5	PASS
EGPRS850	128	VN	NT	1.87	0.002269	±2.5	PASS
EGPRS850	128	VH	NT	0.90	0.001092	±2.5	PASS
EGPRS850	190	VL	NT	0.48	0.000574	±2.5	PASS
EGPRS850	190	VN	NT	-0.36	-0.000430	±2.5	PASS
EGPRS850	190	VH	NT	1.45	0.001733	±2.5	PASS
EGPRS850	251	VL	NT	0.26	0.000306	±2.5	PASS
EGPRS850	251	VN	NT	0.94	0.001107	±2.5	PASS
EGPRS850	251	VH	NT	-1.03	-0.001213	±2.5	PASS
GSM1900	512	VL	NT	-9.30	-0.005026	±2.5	PASS
GSM1900	512	VN	NT	-4.71	-0.002546	±2.5	PASS
GSM1900	512	VH	NT	-7.17	-0.003875	±2.5	PASS
GSM1900	661	VL	NT	-4.39	-0.002335	±2.5	PASS
GSM1900	661	VN	NT	-4.00	-0.002128	±2.5	PASS



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GSM1900	661	VH	NT	-4.84	-0.002574	±2.5	PASS
GSM1900	810	VL	NT	-6.65	-0.003482	±2.5	PASS
GSM1900	810	VN	NT	-4.78	-0.002503	±2.5	PASS
GSM1900	810	VH	NT	-4.07	-0.002131	±2.5	PASS
EGPRS1900	512	VL	NT	-4.58	-0.002475	±2.5	PASS
EGPRS1900	512	VN	NT	-5.65	-0.003054	±2.5	PASS
EGPRS1900	512	VH	NT	-4.29	-0.002319	±2.5	PASS
EGPRS1900	661	VL	NT	-6.10	-0.003245	±2.5	PASS
EGPRS1900	661	VN	NT	-4.65	-0.002473	±2.5	PASS
EGPRS1900	661	VH	NT	-6.33	-0.003367	±2.5	PASS
EGPRS1900	810	VL	NT	-4.29	-0.002246	±2.5	PASS
EGPRS1900	810	VN	NT	-4.42	-0.002314	±2.5	PASS
EGPRS1900	810	VH	NT	-2.62	-0.001372	±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	-0.71	-0.000861	±2.5	PASS
GSM850	128	NV	-20	0.39	0.000473	±2.5	PASS
GSM850	128	NV	-10	0.45	0.000546	±2.5	PASS
GSM850	128	NV	0	-2.39	-0.002900	±2.5	PASS
GSM850	128	NV	10	-2.65	-0.003215	±2.5	PASS
GSM850	128	NV	20	-3.49	-0.004234	±2.5	PASS
GSM850	128	NV	30	-0.52	-0.000631	±2.5	PASS
GSM850	128	NV	40	-3.94	-0.004780	±2.5	PASS
GSM850	128	NV	50	-1.94	-0.002354	±2.5	PASS
GSM850	190	NV	-30	0.77	0.000920	±2.5	PASS
GSM850	190	NV	-20	-0.13	-0.000155	±2.5	PASS



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GSM850	190	NV	-10	-0.06	-0.000072	±2.5	PASS
GSM850	190	NV	0	-2.13	-0.002546	±2.5	PASS
GSM850	190	NV	10	0.39	0.000466	±2.5	PASS
GSM850	190	NV	20	-0.26	-0.000311	±2.5	PASS
GSM850	190	NV	30	-0.71	-0.000849	±2.5	PASS
GSM850	190	NV	40	-1.87	-0.002235	±2.5	PASS
GSM850	190	NV	50	-2.20	-0.002630	±2.5	PASS
GSM850	251	NV	-30	1.16	0.001367	±2.5	PASS
GSM850	251	NV	-20	-0.26	-0.000306	±2.5	PASS
GSM850	251	NV	-10	3.03	0.003570	±2.5	PASS
GSM850	251	NV	0	-1.61	-0.001897	±2.5	PASS
GSM850	251	NV	10	1.94	0.002286	±2.5	PASS
GSM850	251	NV	20	-1.55	-0.001826	±2.5	PASS
GSM850	251	NV	30	1.68	0.001979	±2.5	PASS
GSM850	251	NV	40	-1.03	-0.001213	±2.5	PASS
GSM850	251	NV	50	-1.94	-0.002286	±2.5	PASS
EGPRS850	128	NV	-30	1.00	0.001213	±2.5	PASS
EGPRS850	128	NV	-20	1.29	0.001565	±2.5	PASS
EGPRS850	128	NV	-10	0.16	0.000194	±2.5	PASS
EGPRS850	128	NV	0	-0.94	-0.001140	±2.5	PASS
EGPRS850	128	NV	10	3.10	0.003761	±2.5	PASS
EGPRS850	128	NV	20	-0.87	-0.001056	±2.5	PASS
EGPRS850	128	NV	30	-0.03	-0.000036	±2.5	PASS
EGPRS850	128	NV	40	-2.68	-0.003252	±2.5	PASS
EGPRS850	128	NV	50	1.36	0.001650	±2.5	PASS
EGPRS850	190	NV	-30	1.52	0.001817	±2.5	PASS
EGPRS850	190	NV	-20	1.36	0.001626	±2.5	PASS



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EGPRS85 0	190	NV	-10	-0.65	-0.000777	±2.5	PASS
EGPRS85 0	190	NV	0	9.85	0.011774	±2.5	PASS
EGPRS85 0	190	NV	10	9.10	0.010877	±2.5	PASS
EGPRS85 0	190	NV	20	6.91	0.008260	±2.5	PASS
EGPRS85 0	190	NV	30	4.55	0.005439	±2.5	PASS
EGPRS85 0	190	NV	40	4.94	0.005905	±2.5	PASS
EGPRS85 0	190	NV	50	2.03	0.002426	±2.5	PASS
EGPRS85 0	251	NV	-30	-0.13	-0.000153	±2.5	PASS
EGPRS85 0	251	NV	-20	-0.03	-0.000035	±2.5	PASS
EGPRS85 0	251	NV	-10	2.52	0.002969	±2.5	PASS
EGPRS85 0	251	NV	0	0.65	0.000766	±2.5	PASS
EGPRS85 0	251	NV	10	1.39	0.001638	±2.5	PASS
EGPRS85 0	251	NV	20	-1.23	-0.001449	±2.5	PASS
EGPRS85 0	251	NV	30	1.03	0.001213	±2.5	PASS
EGPRS85 0	251	NV	40	1.19	0.001402	±2.5	PASS
EGPRS85 0	251	NV	50	-0.45	-0.000530	±2.5	PASS
GSM1900	512	NV	-30	-3.29	-0.001778	±2.5	PASS
GSM1900	512	NV	-20	-7.49	-0.004048	±2.5	PASS
GSM1900	512	NV	-10	-8.20	-0.004432	±2.5	PASS
GSM1900	512	NV	0	-5.88	-0.003178	±2.5	PASS
GSM1900	512	NV	10	-13.56	-0.007329	±2.5	PASS
GSM1900	512	NV	20	-11.30	-0.006107	±2.5	PASS



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GSM1900	512	NV	30	-23.44	-0.012669	±2.5	PASS
GSM1900	512	NV	40	-18.66	-0.010085	±2.5	PASS
GSM1900	512	NV	50	-0.97	-0.000524	±2.5	PASS
GSM1900	661	NV	-30	0.58	0.000309	±2.5	PASS
GSM1900	661	NV	-20	-3.29	-0.001750	±2.5	PASS
GSM1900	661	NV	-10	-3.29	-0.001750	±2.5	PASS
GSM1900	661	NV	0	-5.62	-0.002989	±2.5	PASS
GSM1900	661	NV	10	-8.59	-0.004569	±2.5	PASS
GSM1900	661	NV	20	-15.76	-0.008383	±2.5	PASS
GSM1900	661	NV	30	0.90	0.000479	±2.5	PASS
GSM1900	661	NV	40	-4.71	-0.002505	±2.5	PASS
GSM1900	661	NV	50	-6.07	-0.003229	±2.5	PASS
GSM1900	810	NV	-30	-4.71	-0.002466	±2.5	PASS
GSM1900	810	NV	-20	-5.55	-0.002906	±2.5	PASS
GSM1900	810	NV	-10	-2.26	-0.001183	±2.5	PASS
GSM1900	810	NV	0	-13.43	-0.007032	±2.5	PASS
GSM1900	810	NV	10	-10.53	-0.005514	±2.5	PASS
GSM1900	810	NV	20	-4.71	-0.002466	±2.5	PASS
GSM1900	810	NV	30	-7.62	-0.003990	±2.5	PASS
GSM1900	810	NV	40	-14.33	-0.007503	±2.5	PASS
GSM1900	810	NV	50	-11.75	-0.006152	±2.5	PASS
EGPRS1900	512	NV	-30	-4.81	-0.002600	±2.5	PASS
EGPRS1900	512	NV	-20	-5.17	-0.002794	±2.5	PASS
EGPRS1900	512	NV	-10	-1.07	-0.000578	±2.5	PASS
EGPRS1900	512	NV	0	-14.17	-0.007659	±2.5	PASS
EGPRS1900	512	NV	10	-5.07	-0.002740	±2.5	PASS
EGPRS1900	512	NV	20	-2.81	-0.001519	±2.5	PASS
EGPRS1900	512	NV	30	-3.58	-0.001935	±2.5	PASS
EGPRS1900	512	NV	40	0.45	0.000243	±2.5	PASS
EGPRS1900	512	NV	50	-2.91	-0.001573	±2.5	PASS



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00							
EGPRS19 00	661	NV	-30	-5.65	-0.003005	±2.5	PASS
EGPRS19 00	661	NV	-20	-4.65	-0.002473	±2.5	PASS
EGPRS19 00	661	NV	-10	-9.62	-0.005117	±2.5	PASS
EGPRS19 00	661	NV	0	-6.55	-0.003484	±2.5	PASS
EGPRS19 00	661	NV	10	-7.55	-0.004016	±2.5	PASS
EGPRS19 00	661	NV	20	-6.75	-0.003590	±2.5	PASS
EGPRS19 00	661	NV	30	-8.23	-0.004378	±2.5	PASS
EGPRS19 00	661	NV	40	-7.72	-0.004106	±2.5	PASS
EGPRS19 00	661	NV	50	-6.30	-0.003351	±2.5	PASS
EGPRS19 00	810	NV	-30	-4.81	-0.002519	±2.5	PASS
EGPRS19 00	810	NV	-20	-4.88	-0.002555	±2.5	PASS
EGPRS19 00	810	NV	-10	-5.91	-0.003095	±2.5	PASS
EGPRS19 00	810	NV	0	-6.04	-0.003163	±2.5	PASS
EGPRS19 00	810	NV	10	-3.52	-0.001843	±2.5	PASS
EGPRS19 00	810	NV	20	-1.13	-0.000592	±2.5	PASS
EGPRS19 00	810	NV	30	-5.55	-0.002906	±2.5	PASS
EGPRS19 00	810	NV	40	-8.62	-0.004514	±2.5	PASS
EGPRS19 00	810	NV	50	-0.94	-0.000492	±2.5	PASS



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The End



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