



Appendix B

GSM 850 & 1900



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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

| Band | Channel | Slot | Conducted Power (dBm) | ERP (dBm) | Limit(dBm) | Verdict |
|----------|---------|------|-----------------------|-----------|------------|---------|
| GSM850 | 128 | --- | 31.93 | 29.32 | 38.45 | PASS |
| GSM850 | 190 | --- | 32.23 | 29.62 | 38.45 | PASS |
| GSM850 | 251 | --- | 32.40 | 29.79 | 38.45 | PASS |
| EGPRS850 | 128 | 1 | 25.97 | 23.36 | 38.45 | PASS |
| EGPRS850 | 128 | 2 | 23.90 | 21.29 | 38.45 | PASS |
| EGPRS850 | 128 | 3 | 21.70 | 19.09 | 38.45 | PASS |
| EGPRS850 | 128 | 4 | 19.95 | 17.34 | 38.45 | PASS |
| EGPRS850 | 190 | 1 | 26.03 | 23.42 | 38.45 | PASS |
| EGPRS850 | 190 | 2 | 23.87 | 21.26 | 38.45 | PASS |
| EGPRS850 | 190 | 3 | 21.71 | 19.1 | 38.45 | PASS |
| EGPRS850 | 190 | 4 | 19.90 | 17.29 | 38.45 | PASS |
| EGPRS850 | 251 | 1 | 26.07 | 23.46 | 38.45 | PASS |
| EGPRS850 | 251 | 2 | 23.88 | 21.27 | 38.45 | PASS |
| EGPRS850 | 251 | 3 | 21.65 | 19.04 | 38.45 | PASS |
| EGPRS850 | 251 | 4 | 19.91 | 17.3 | 38.45 | PASS |

| Band | Channel | Slot | Conducted Power (dBm) | EIRP (dBm) | Limit(dBm) | Verdict |
|-----------|---------|------|-----------------------|------------|------------|---------|
| GSM1900 | 512 | --- | 29.53 | 30.74 | 33.00 | PASS |
| GSM1900 | 661 | --- | 29.48 | 30.69 | 33.00 | PASS |
| GSM1900 | 810 | --- | 28.67 | 29.88 | 33.00 | PASS |
| EGPRS1900 | 512 | 1 | 25.99 | 27.2 | 33.00 | PASS |
| EGPRS1900 | 512 | 2 | 23.64 | 24.85 | 33.00 | PASS |
| EGPRS1900 | 512 | 3 | 21.86 | 23.07 | 33.00 | PASS |
| EGPRS1900 | 512 | 4 | 20.90 | 22.11 | 33.00 | PASS |
| EGPRS1900 | 661 | 1 | 26.09 | 27.3 | 33.00 | PASS |
| EGPRS1900 | 661 | 2 | 23.54 | 24.75 | 33.00 | PASS |
| EGPRS1900 | 661 | 3 | 21.92 | 23.13 | 33.00 | PASS |
| EGPRS1900 | 661 | 4 | 20.80 | 22.01 | 33.00 | PASS |
| EGPRS1900 | 810 | 1 | 25.77 | 26.98 | 33.00 | PASS |
| EGPRS1900 | 810 | 2 | 23.16 | 24.37 | 33.00 | PASS |
| EGPRS1900 | 810 | 3 | 21.54 | 22.75 | 33.00 | PASS |



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| | | | | | | |
|-----------|-----|---|-------|-------|-------|------|
| EGPRS1900 | 810 | 4 | 20.83 | 22.04 | 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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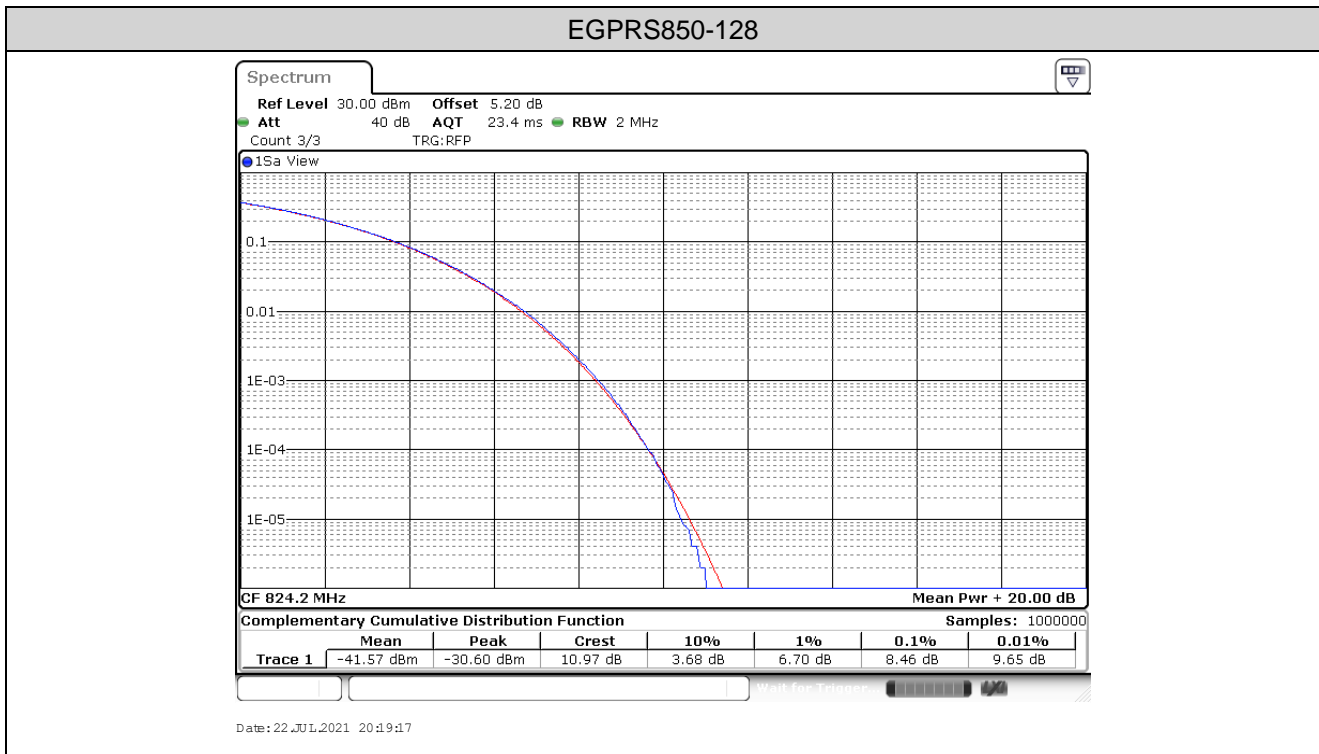


2. Peak-to-Average Ratio

2.1. Test Result

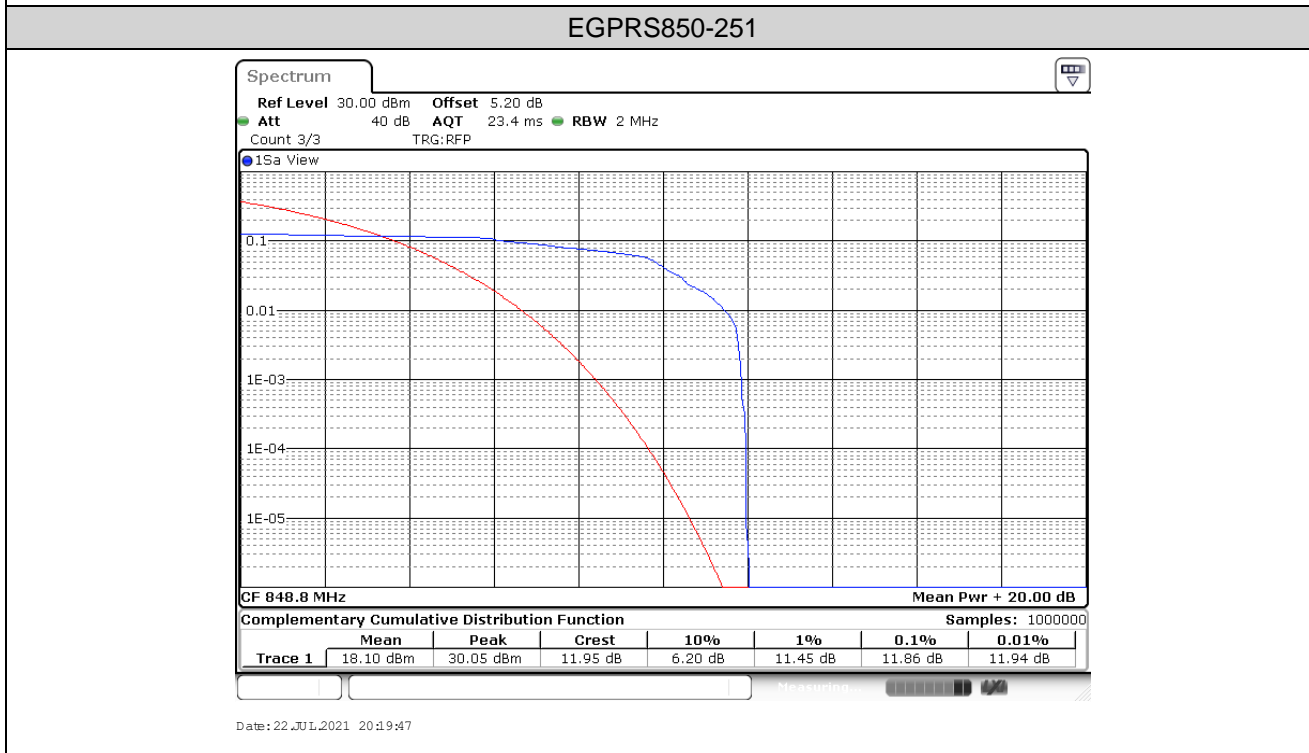
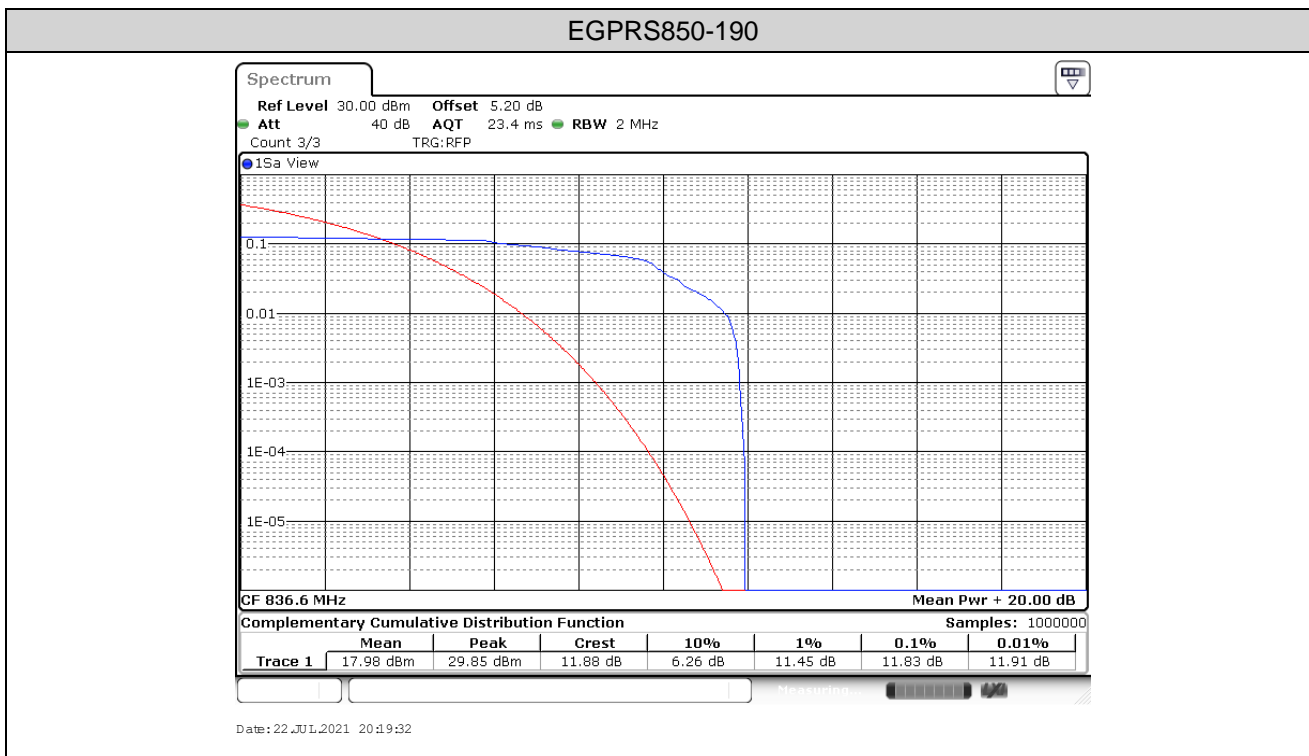
| Band | Channel | Result(dB) | Limit(dB) | Verdict |
|-----------|---------|------------|-----------|---------|
| EGPRS850 | 128 | 8.46 | 13 | PASS |
| EGPRS850 | 190 | 11.83 | 13 | PASS |
| EGPRS850 | 251 | 11.86 | 13 | PASS |
| GSM1900 | 512 | 9.91 | 13 | PASS |
| GSM1900 | 661 | 9.07 | 13 | PASS |
| GSM1900 | 810 | 9.01 | 13 | PASS |
| EGPRS1900 | 512 | 11.83 | 13 | PASS |
| EGPRS1900 | 661 | 11.8 | 13 | PASS |
| EGPRS1900 | 810 | 12.06 | 13 | PASS |

2.2. Part II - Test Plots



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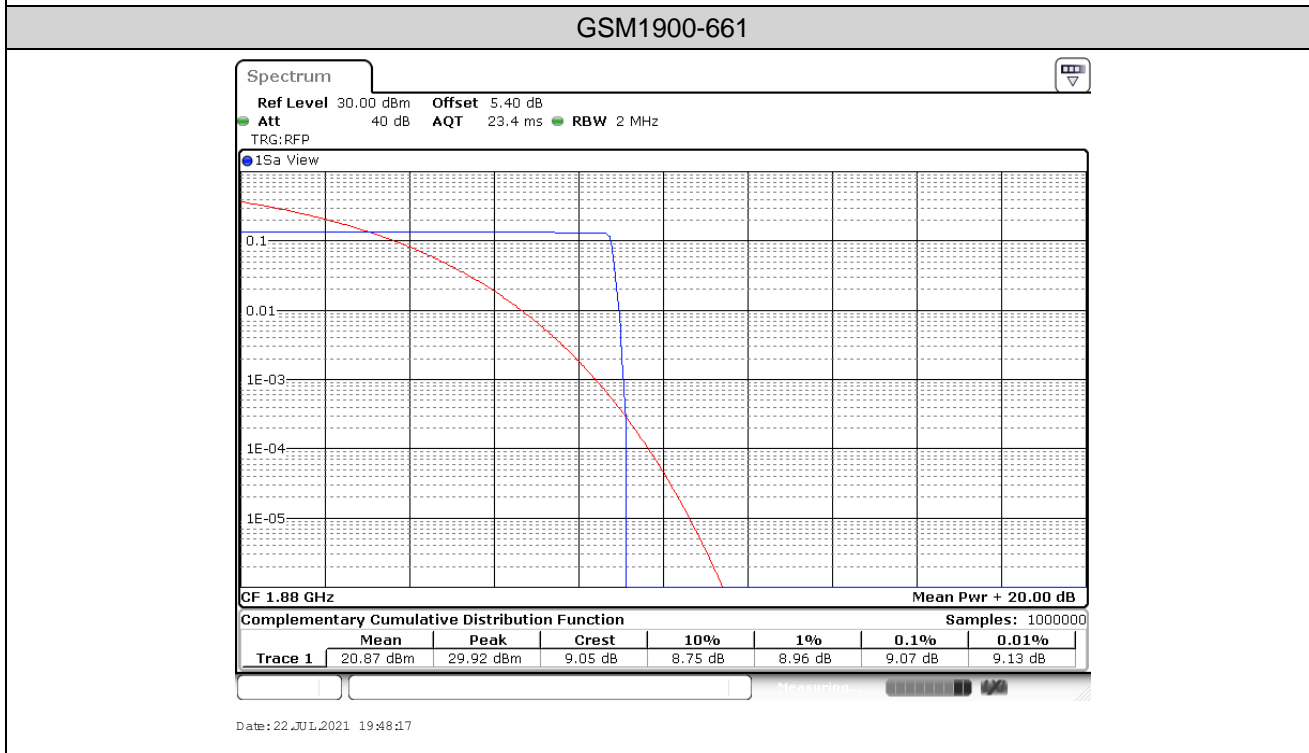
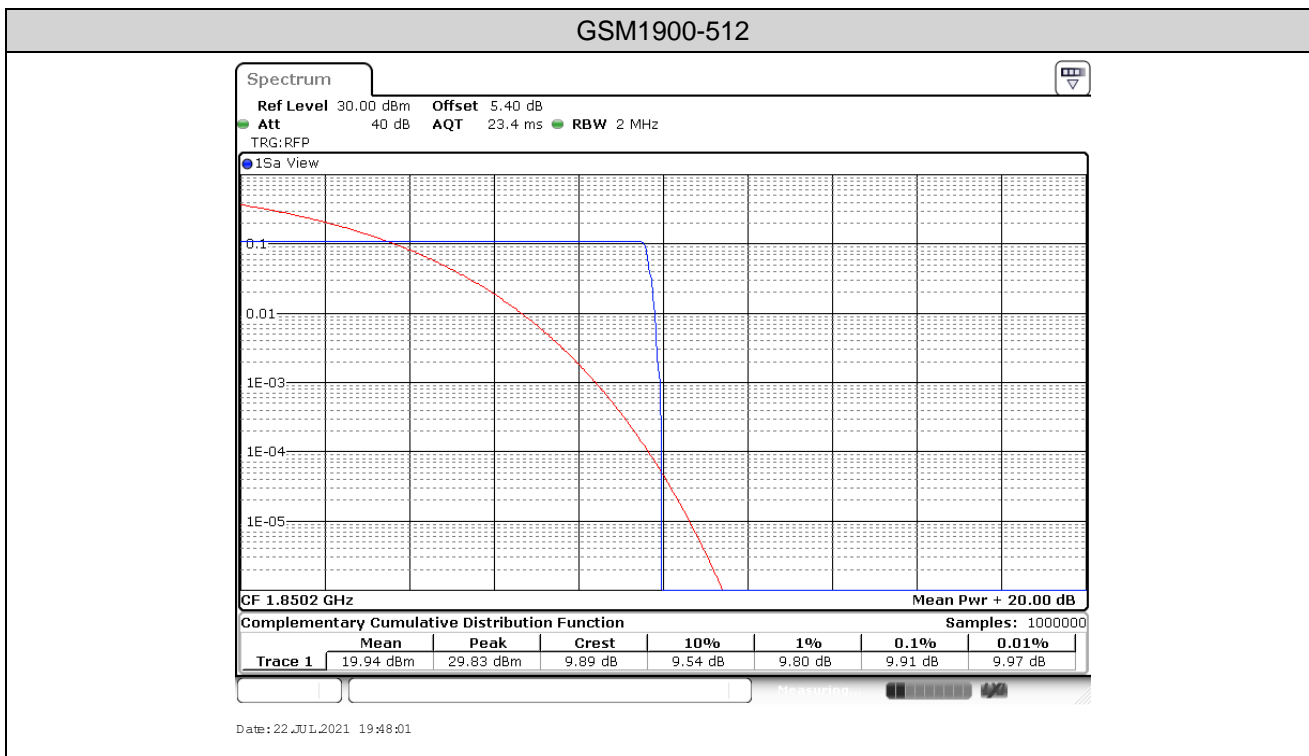
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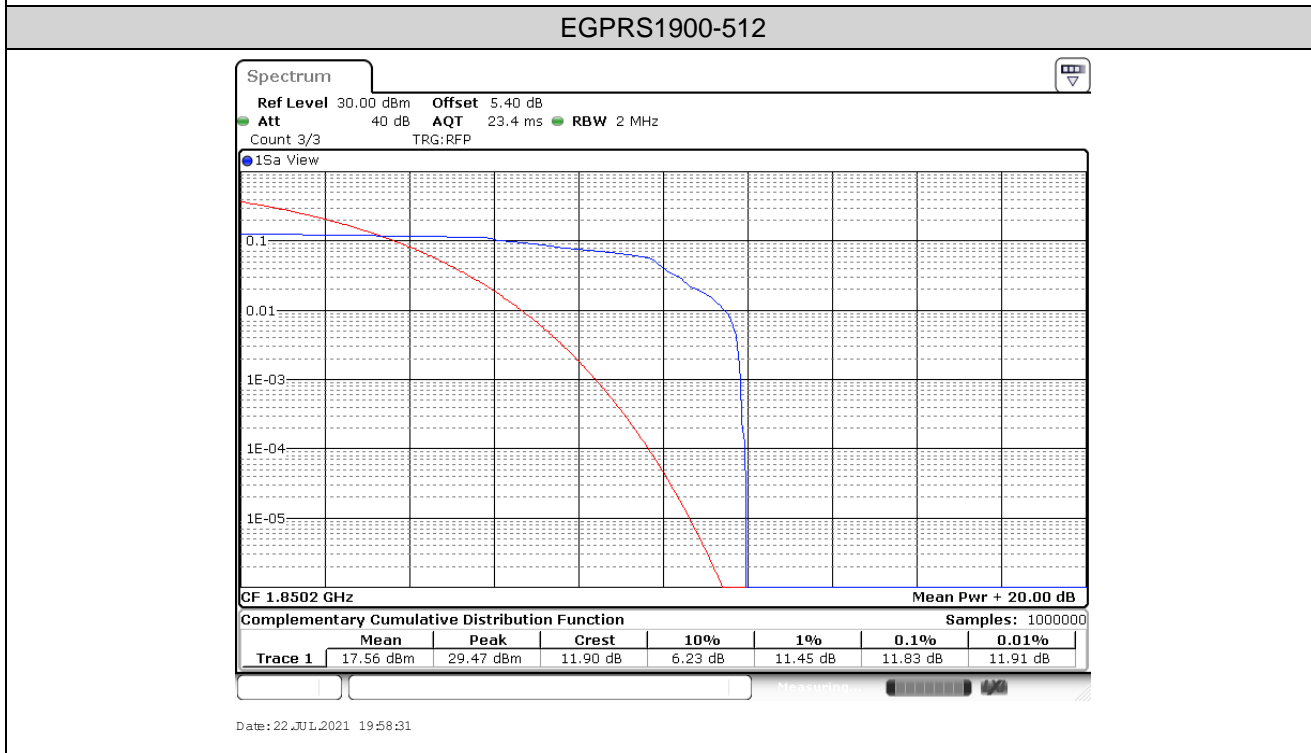
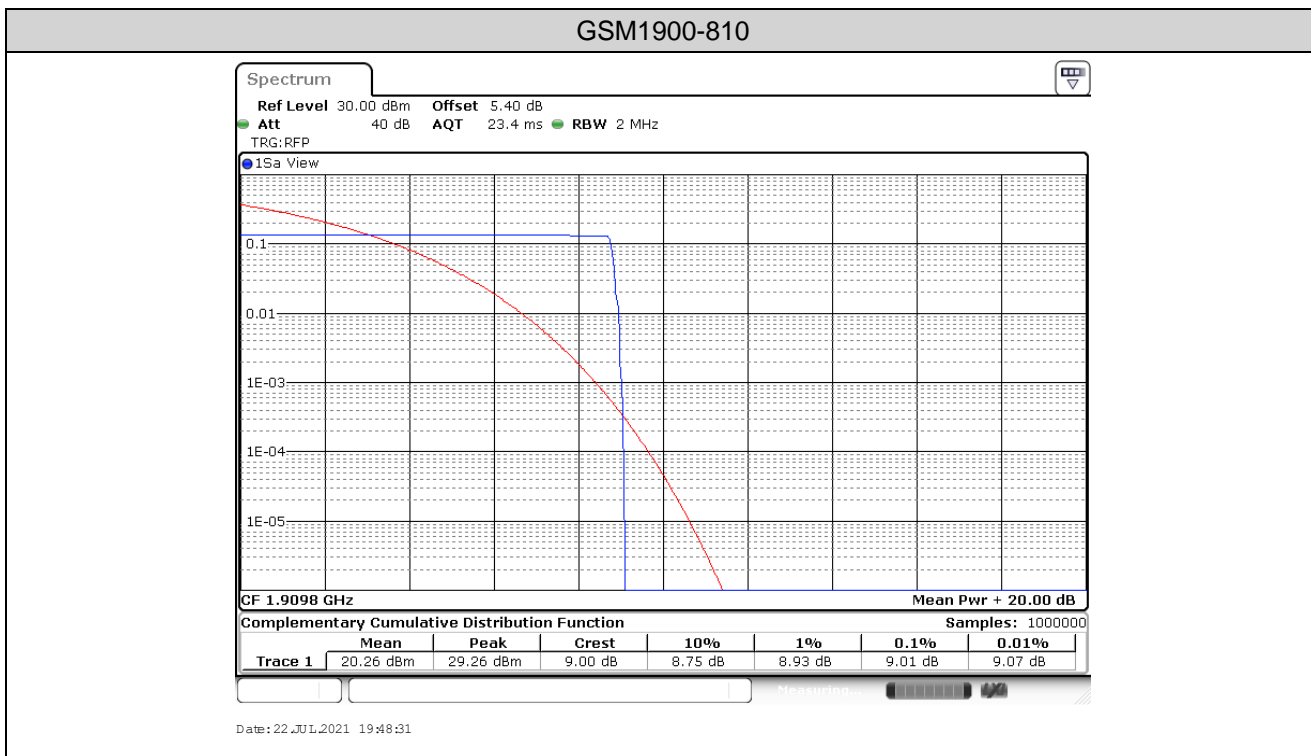
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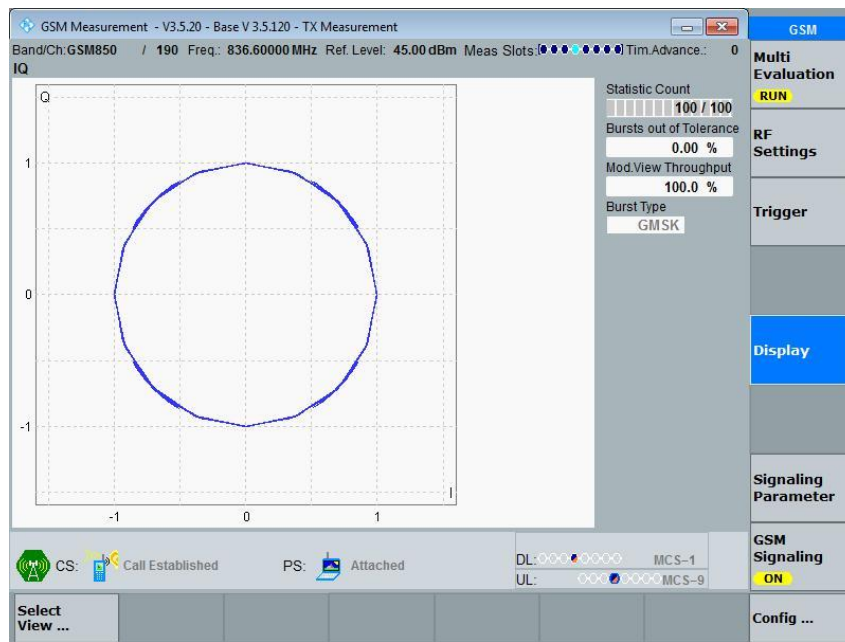
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

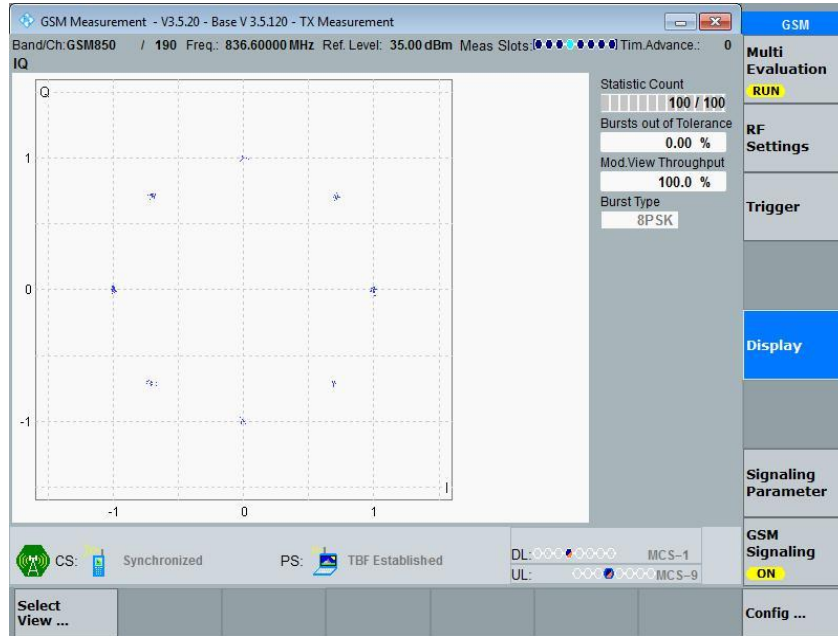
3.1.1.1.1. Test Channel = MCH



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3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH

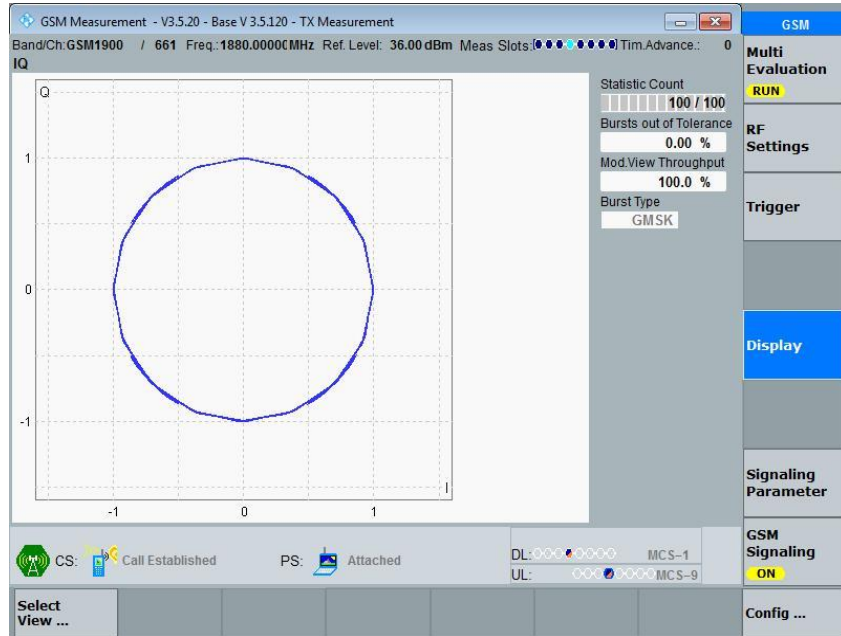


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3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

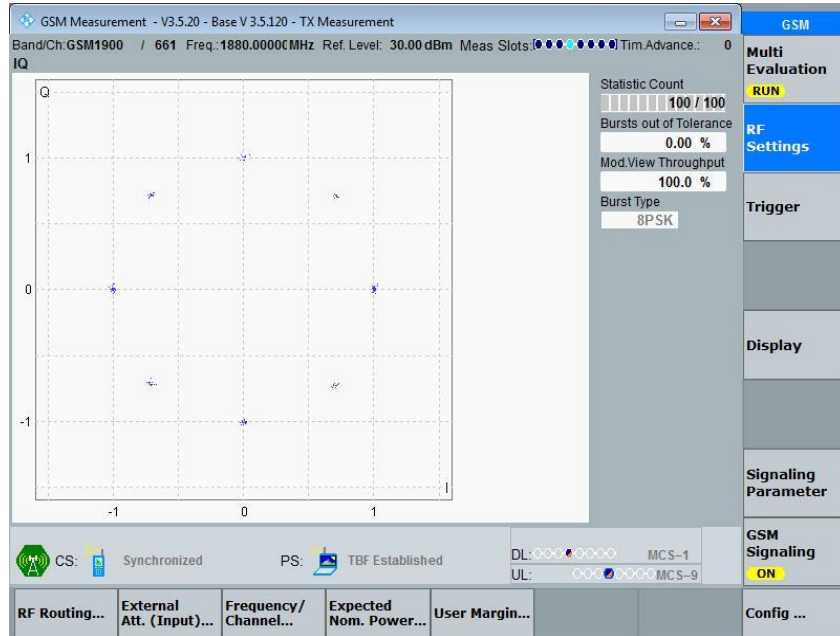
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3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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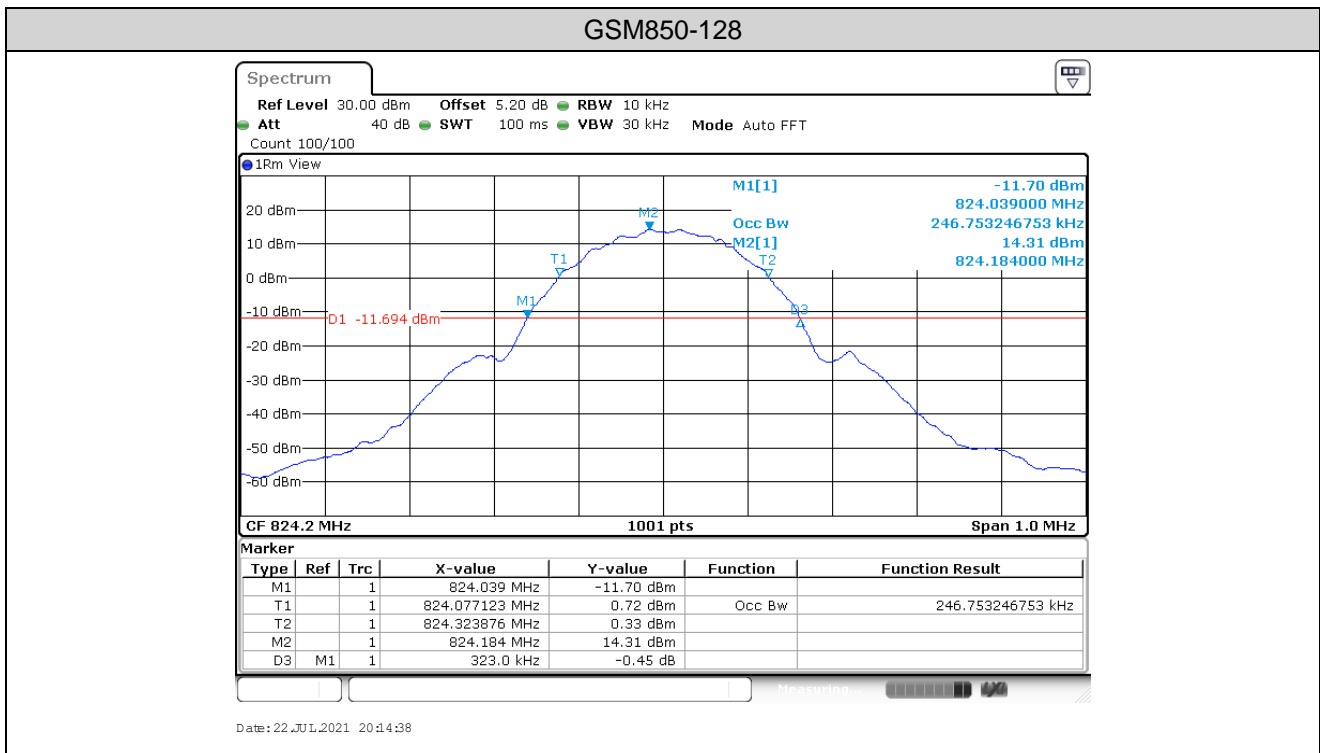
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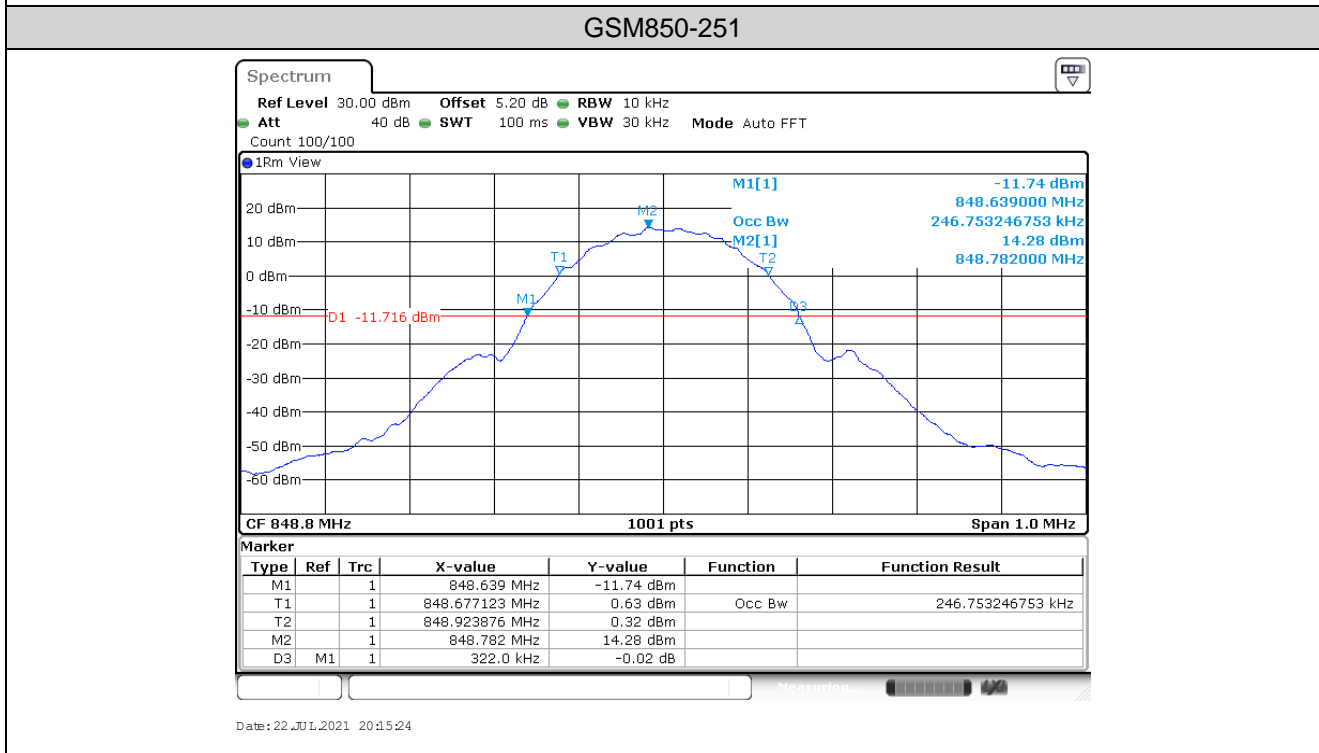
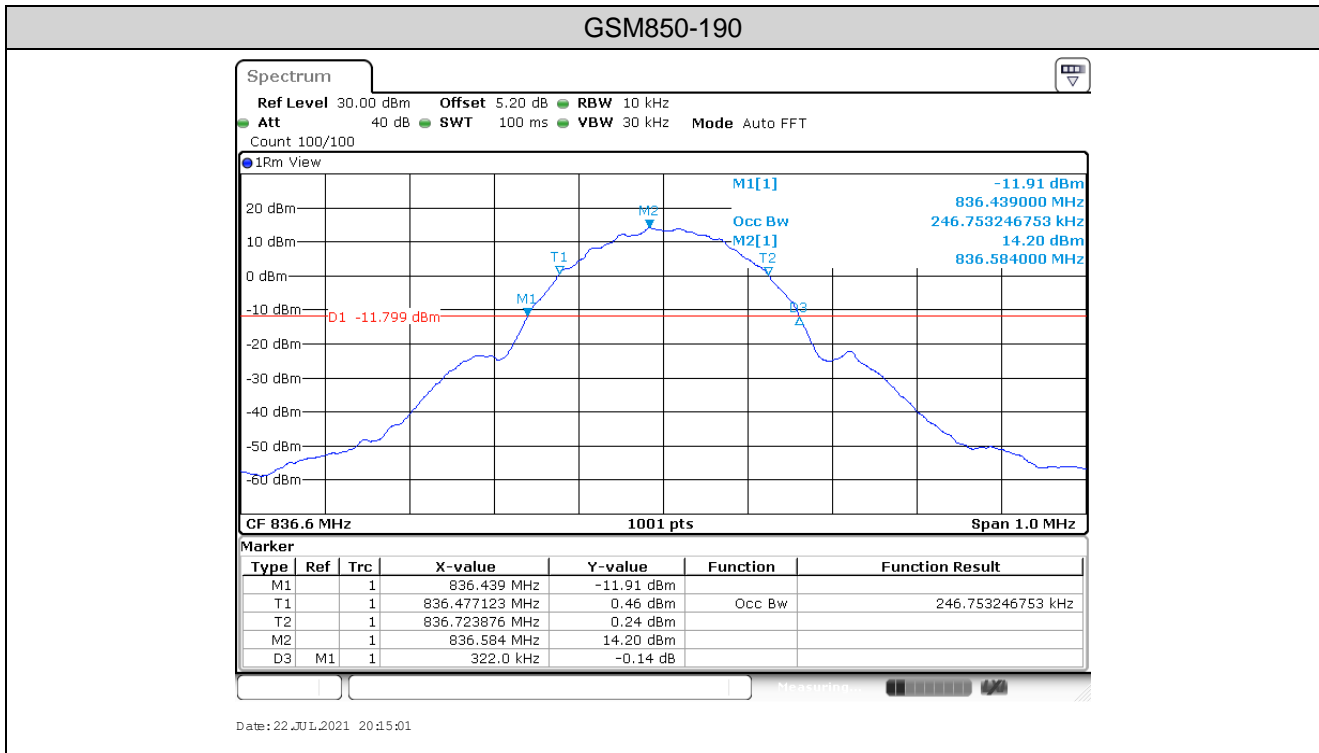
4.1. Test Result

| Band | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
|-----------|---------|--------------------------|----------------------|-------------|---------|
| GSM850 | 128 | 0.247 | 0.323 | --- | PASS |
| GSM850 | 190 | 0.247 | 0.322 | --- | PASS |
| GSM850 | 251 | 0.247 | 0.322 | --- | PASS |
| EGPRS850 | 128 | 0.244 | 0.317 | --- | PASS |
| EGPRS850 | 190 | 0.244 | 0.319 | --- | PASS |
| EGPRS850 | 251 | 0.244 | 0.317 | --- | PASS |
| GSM1900 | 512 | 0.247 | 0.322 | --- | PASS |
| GSM1900 | 661 | 0.248 | 0.323 | --- | PASS |
| GSM1900 | 810 | 0.248 | 0.324 | --- | PASS |
| EGPRS1900 | 512 | 0.244 | 0.317 | --- | PASS |
| EGPRS1900 | 661 | 0.245 | 0.316 | --- | PASS |
| EGPRS1900 | 810 | 0.244 | 0.317 | --- | PASS |

4.2. Test Plots

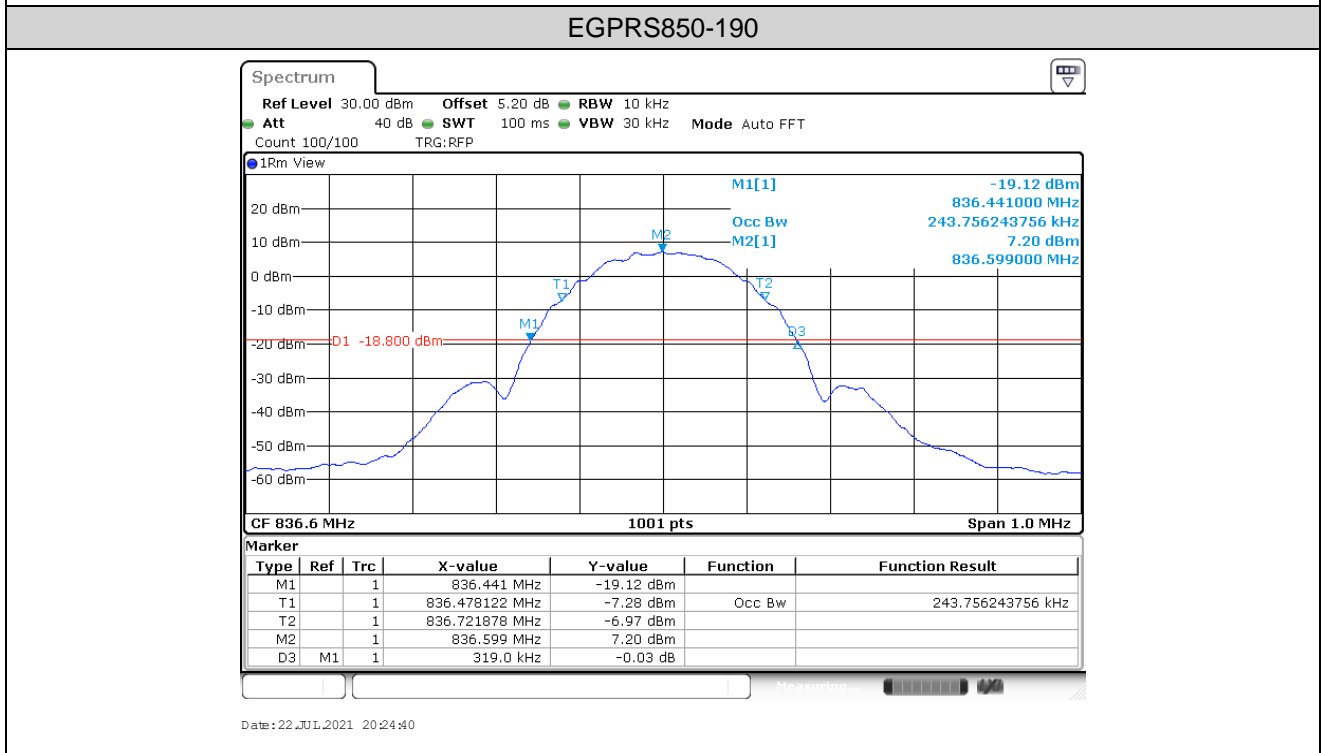
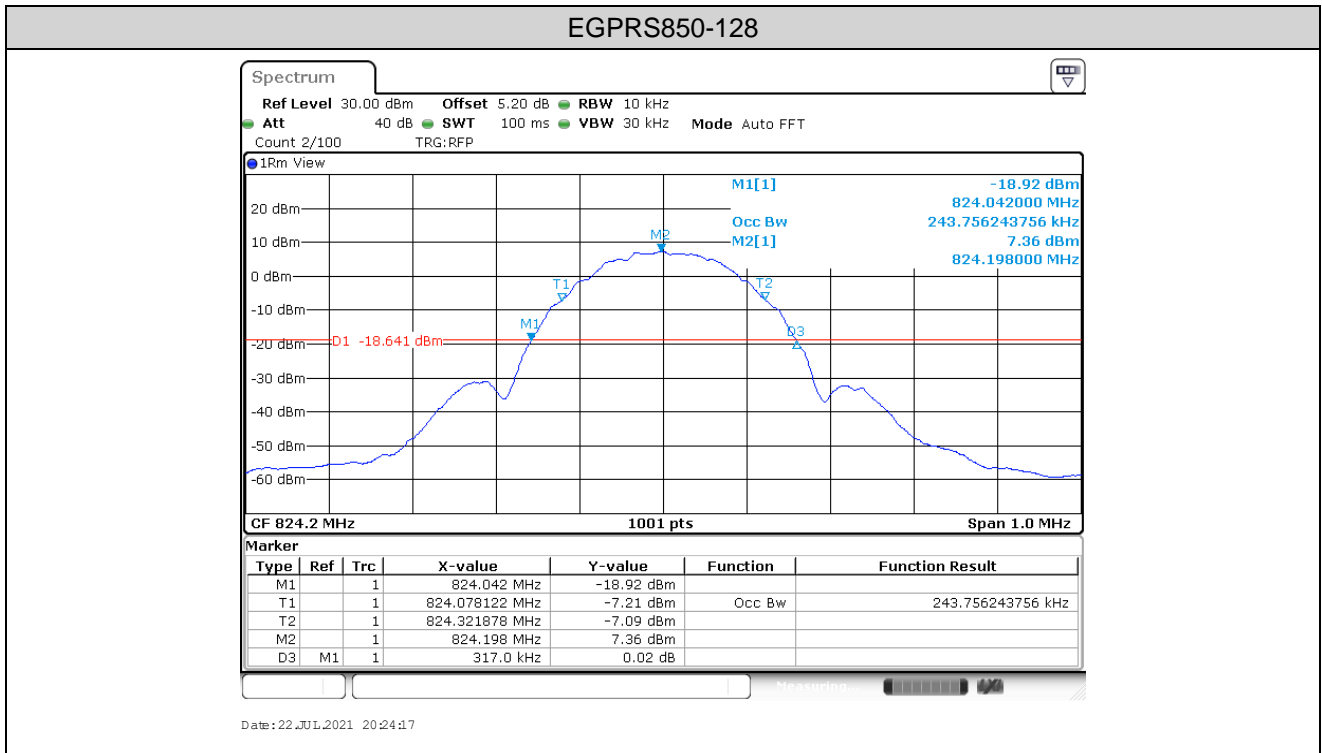


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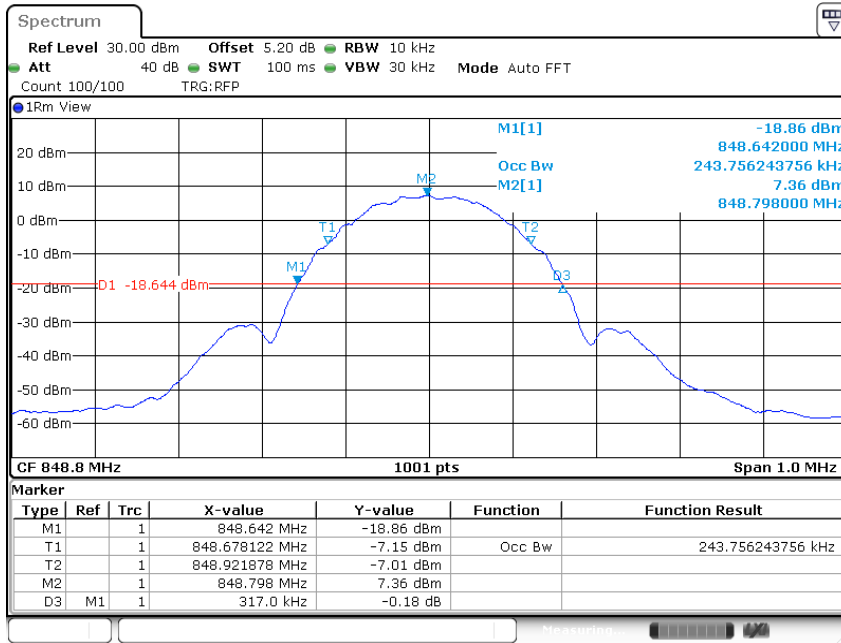


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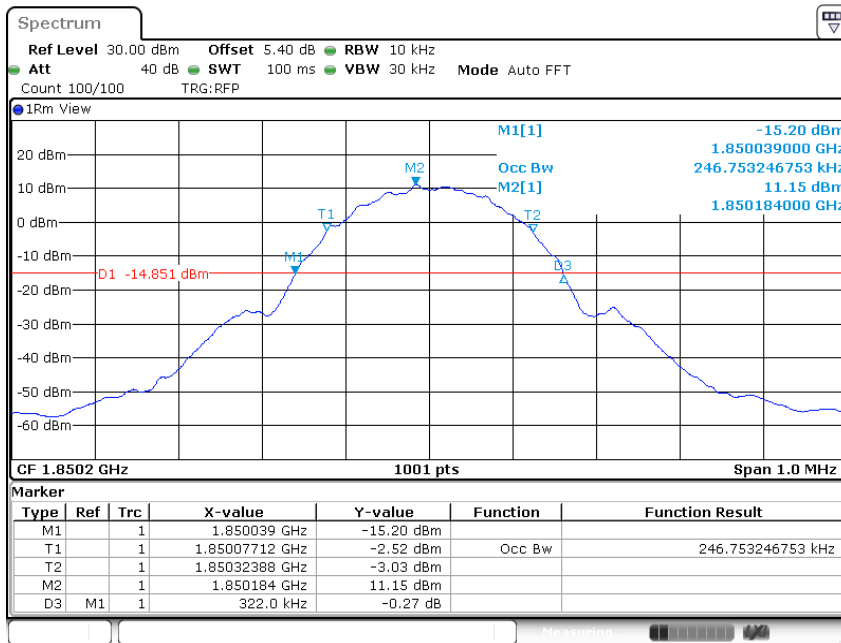
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Shenzhen Branch 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

EGPRS850-251



Date: 22 JUL 2021 20:25:03

GSM1900-512

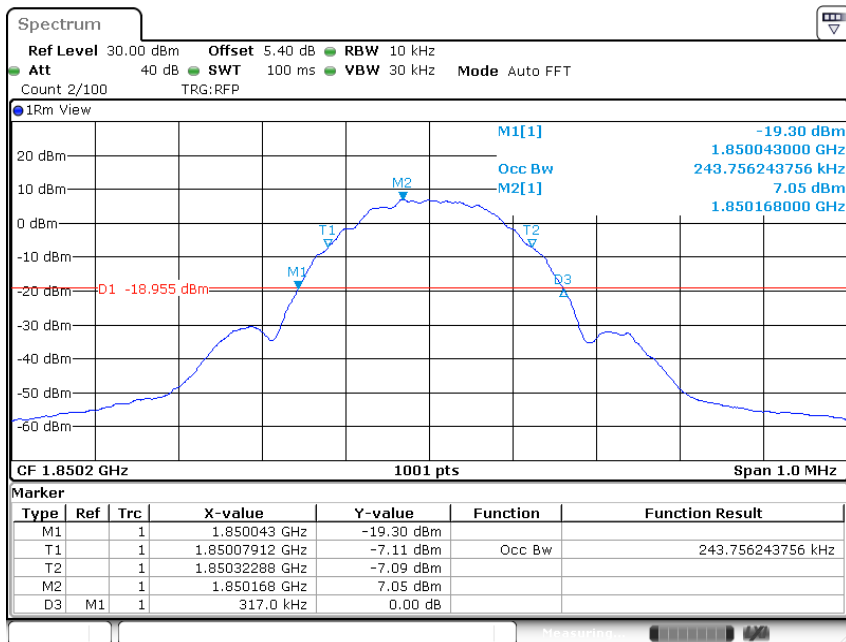


Date: 22 JUL 2021 19:52:27



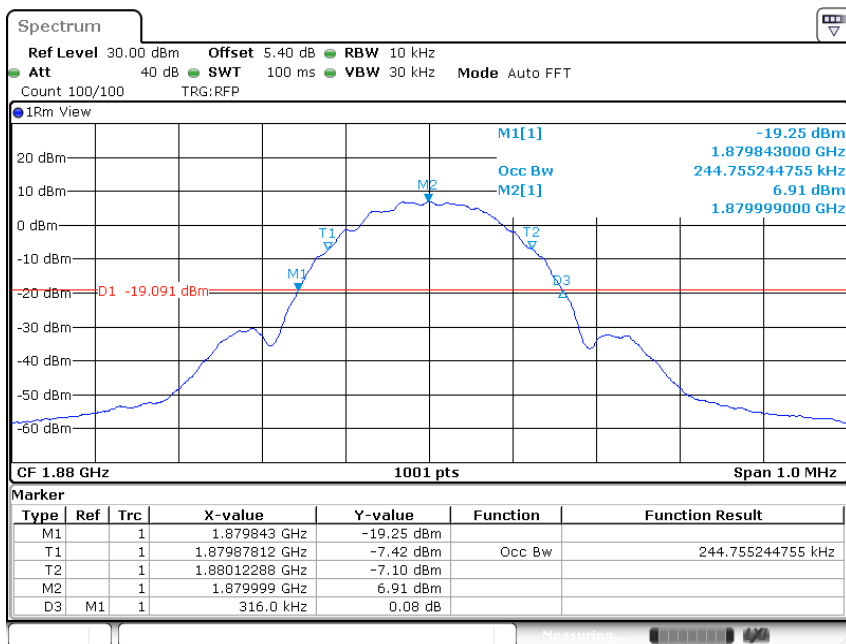
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EGPRS1900-512



Date: 22 JUL 2021 20:03:29

EGPRS1900-661



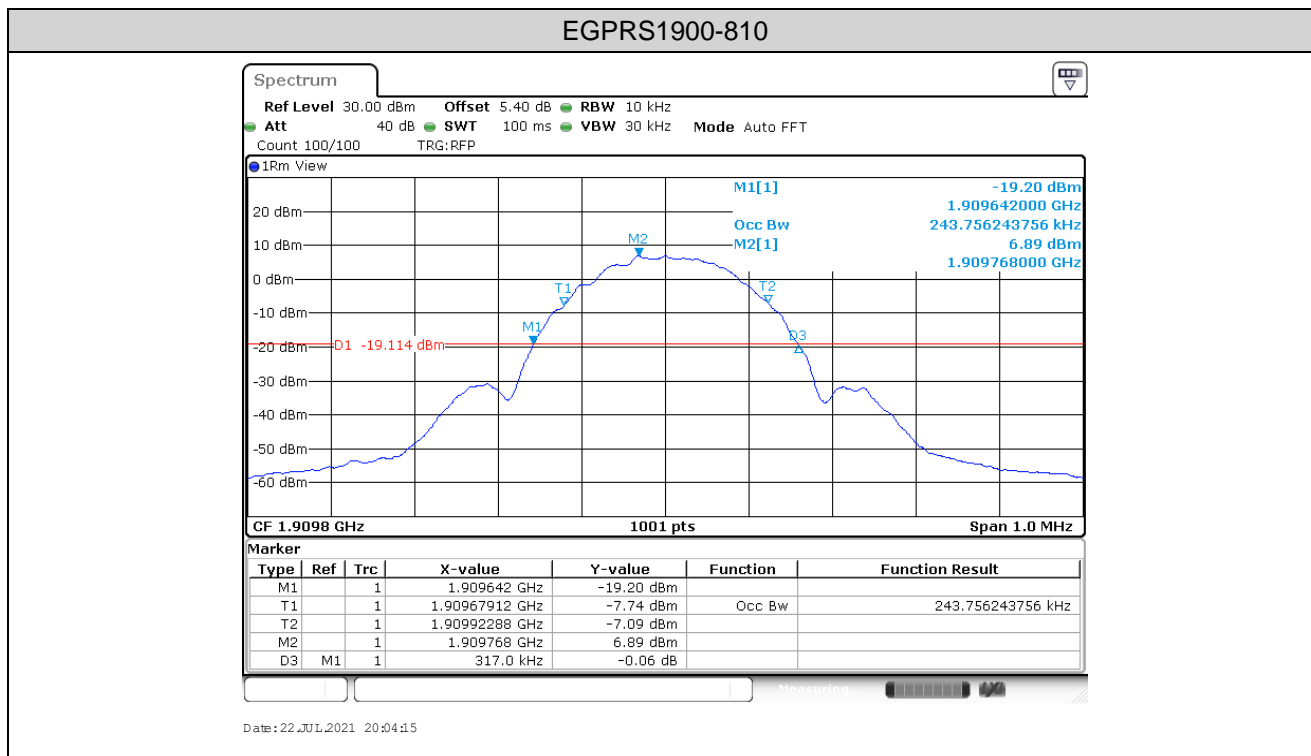
Date: 22 JUL 2021 20:03:52



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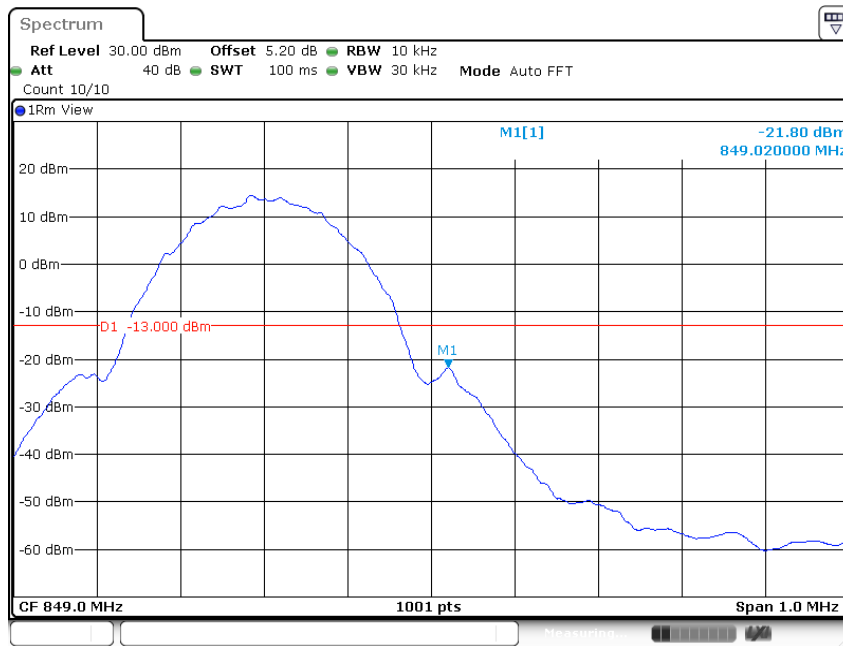
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



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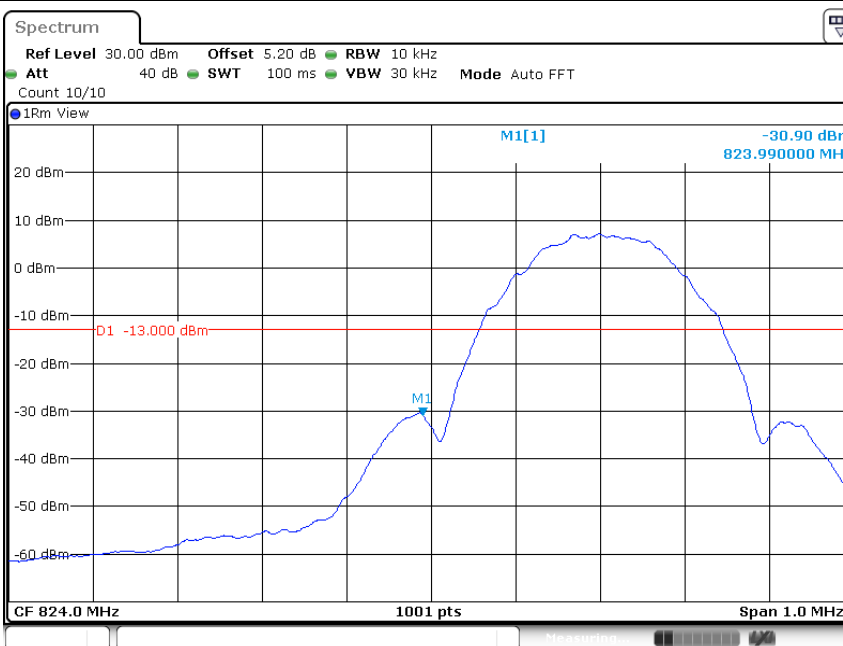
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GSM850-251



Date: 22 JUL 2021 20:15:52

EGPRS850-128

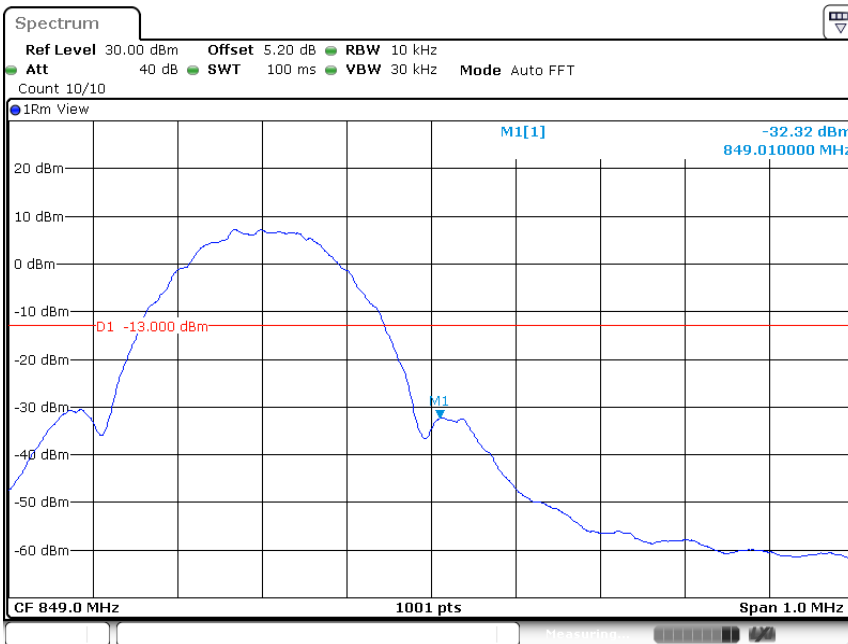


Date: 22 JUL 2021 20:25:17



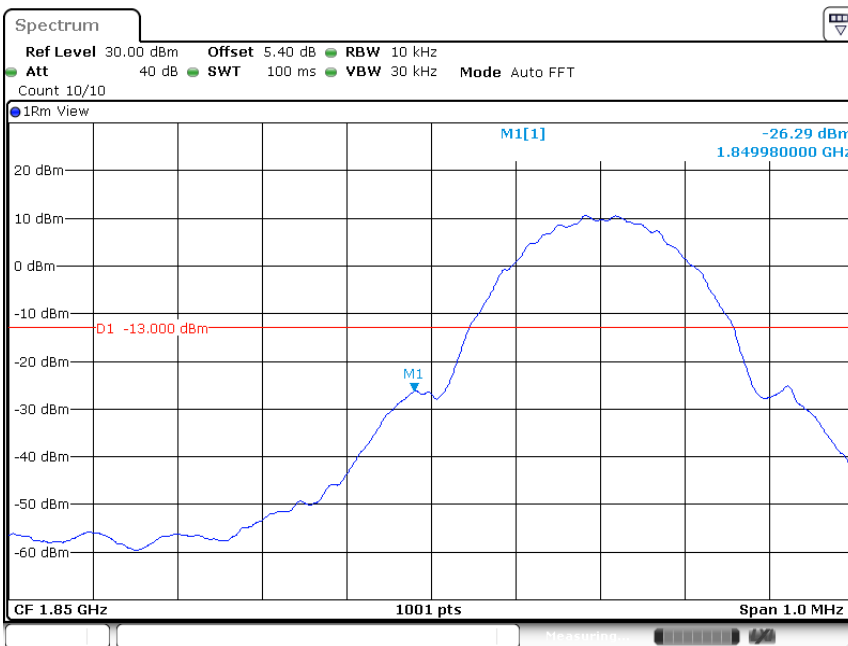
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EGPRS850-251



Date: 22 JUL 2021 20:25:31

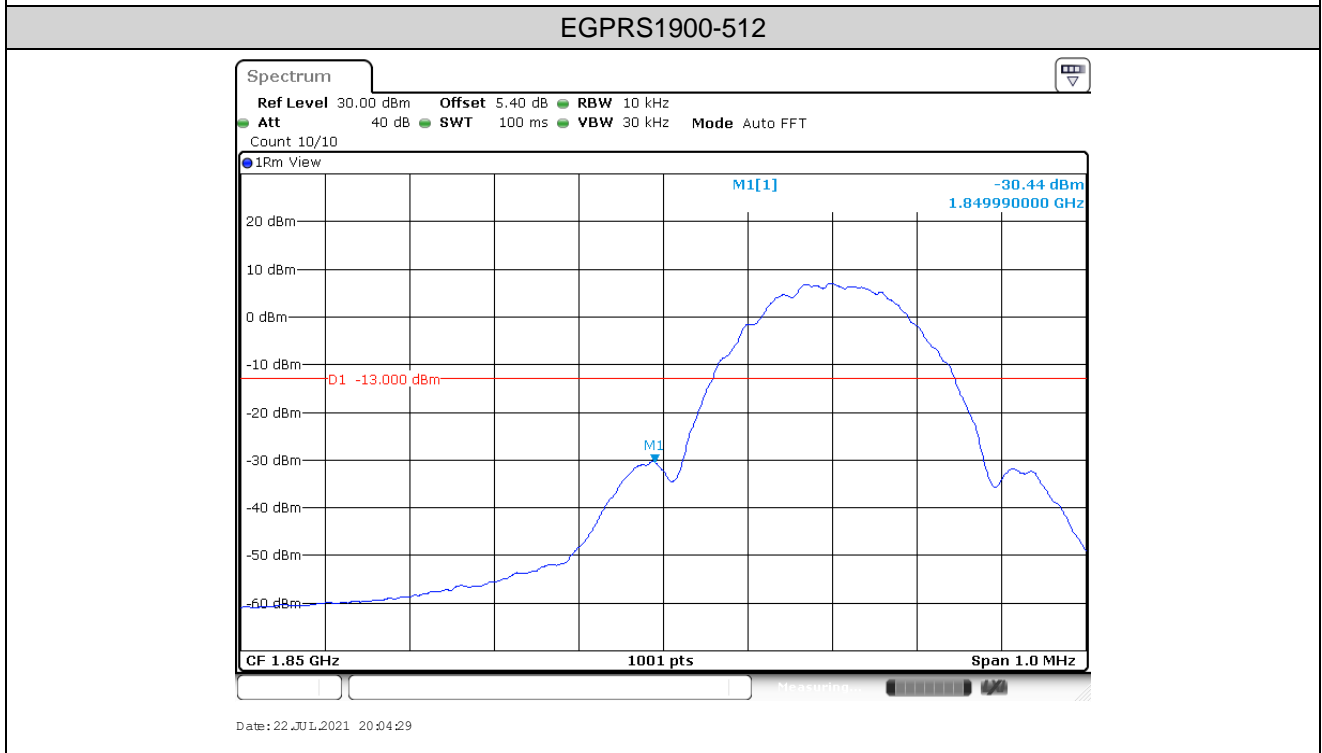
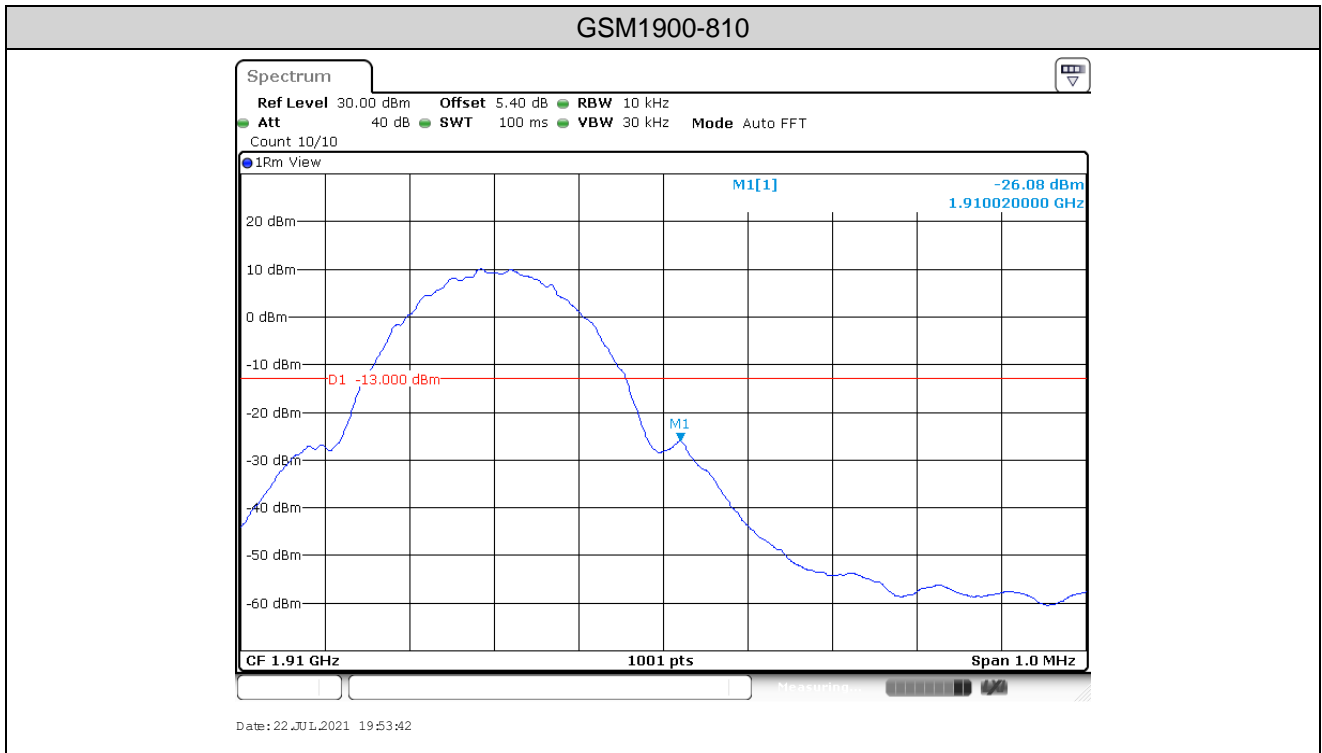
GSM1900-512



Date: 22 JUL 2021 19:53:28

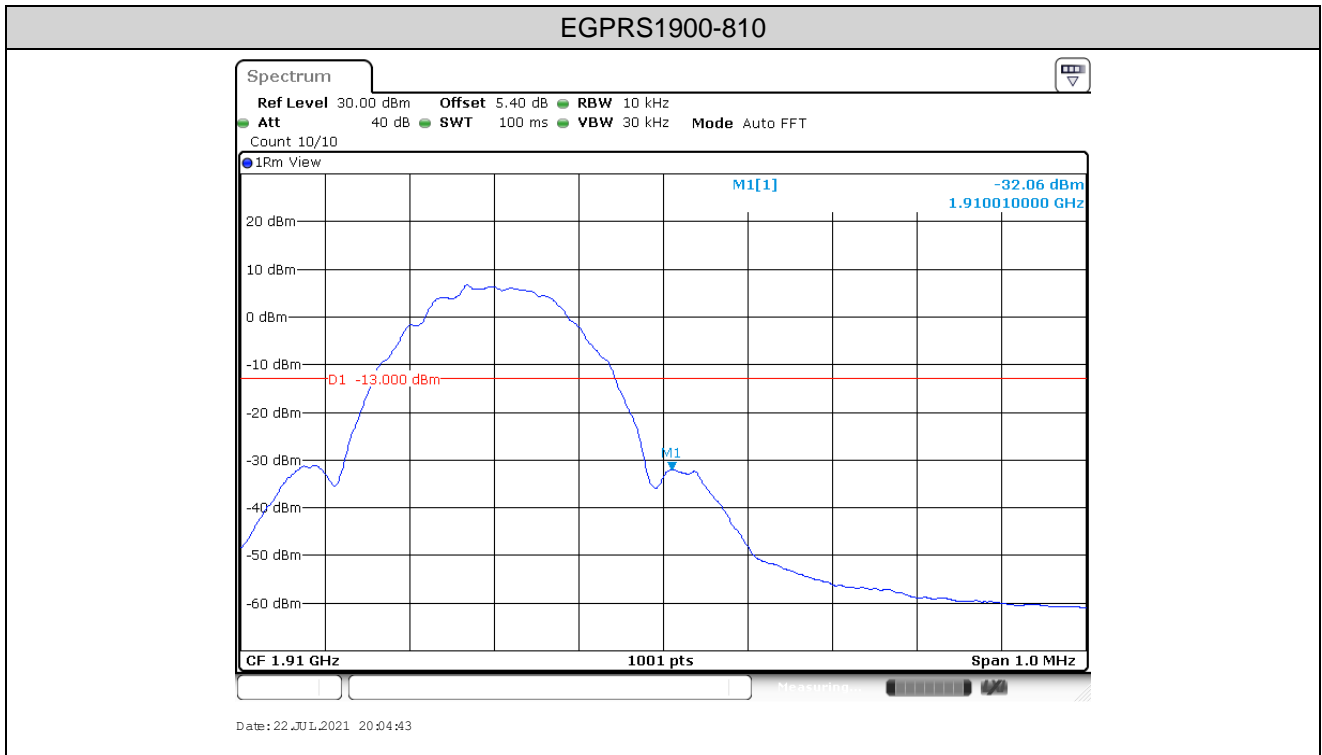


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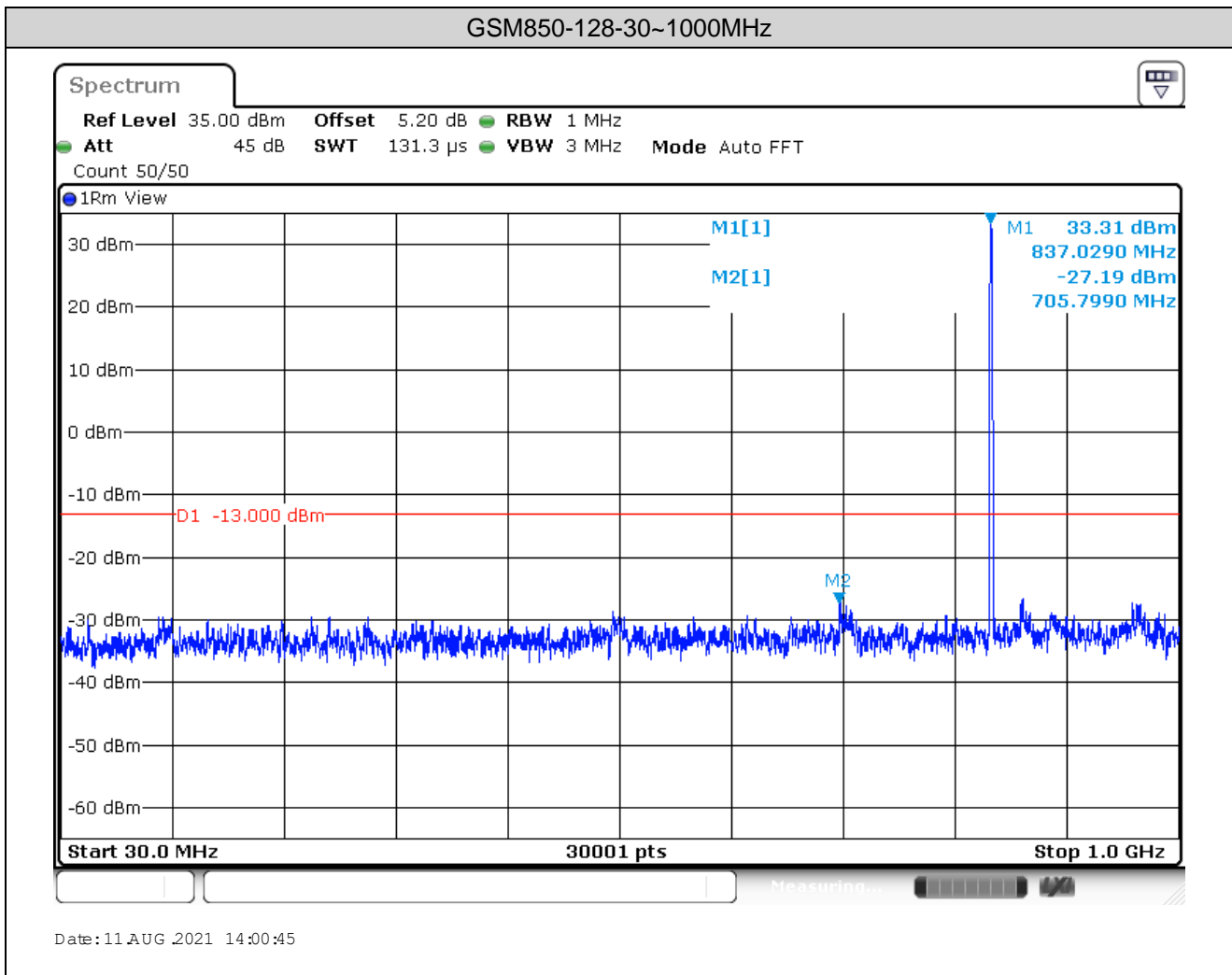
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6. Spurious Emission at Antenna Terminal

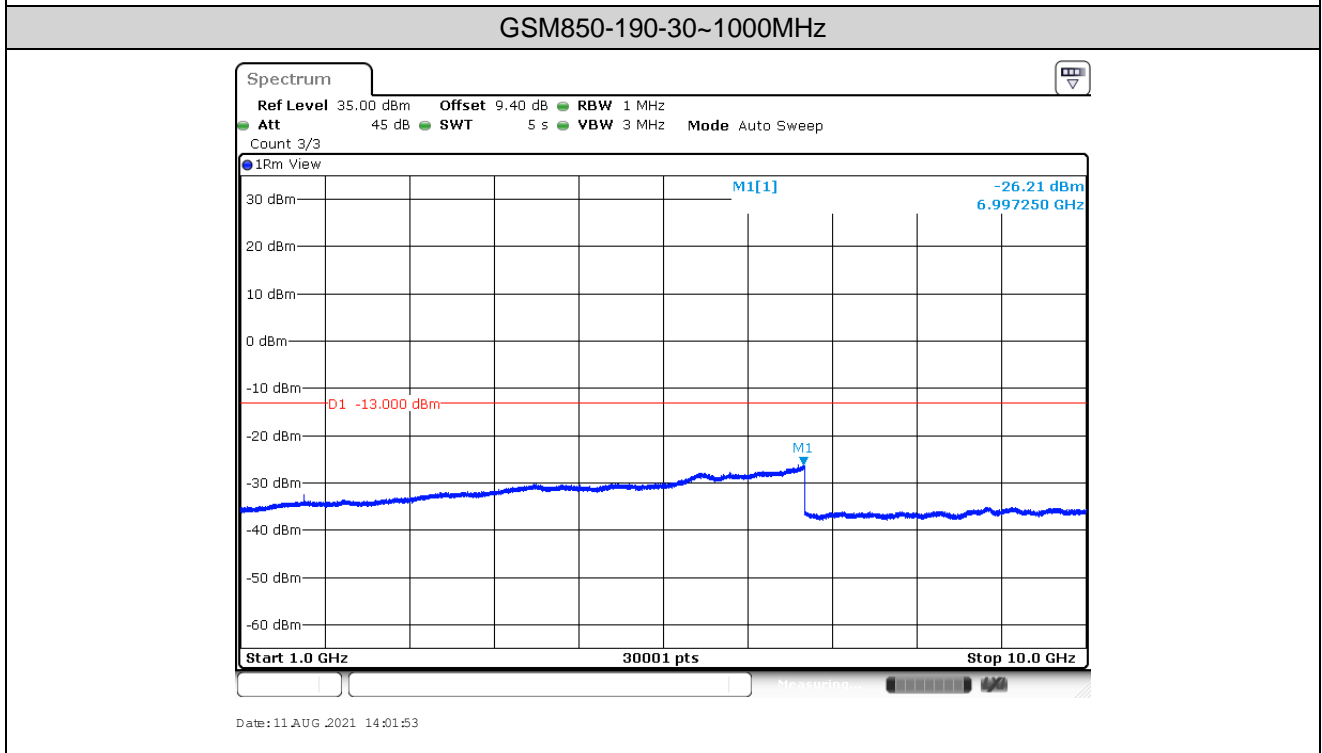
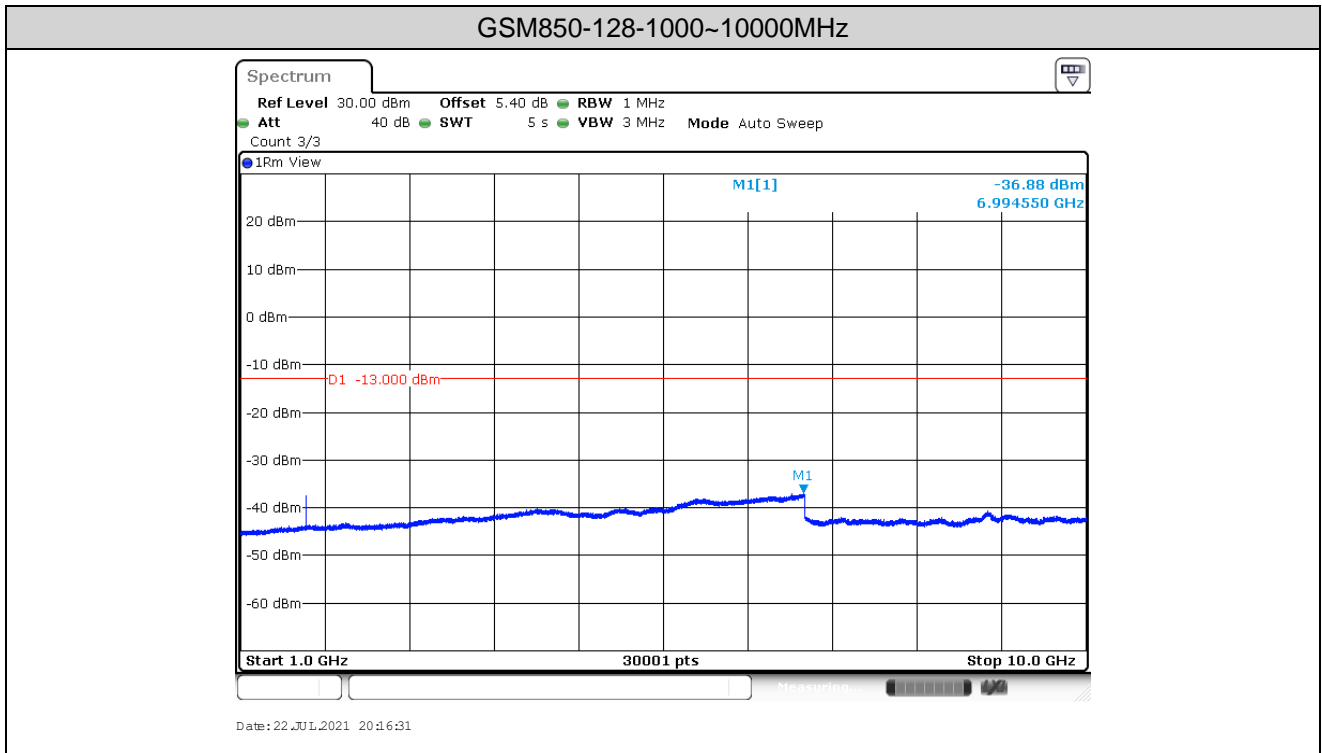
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

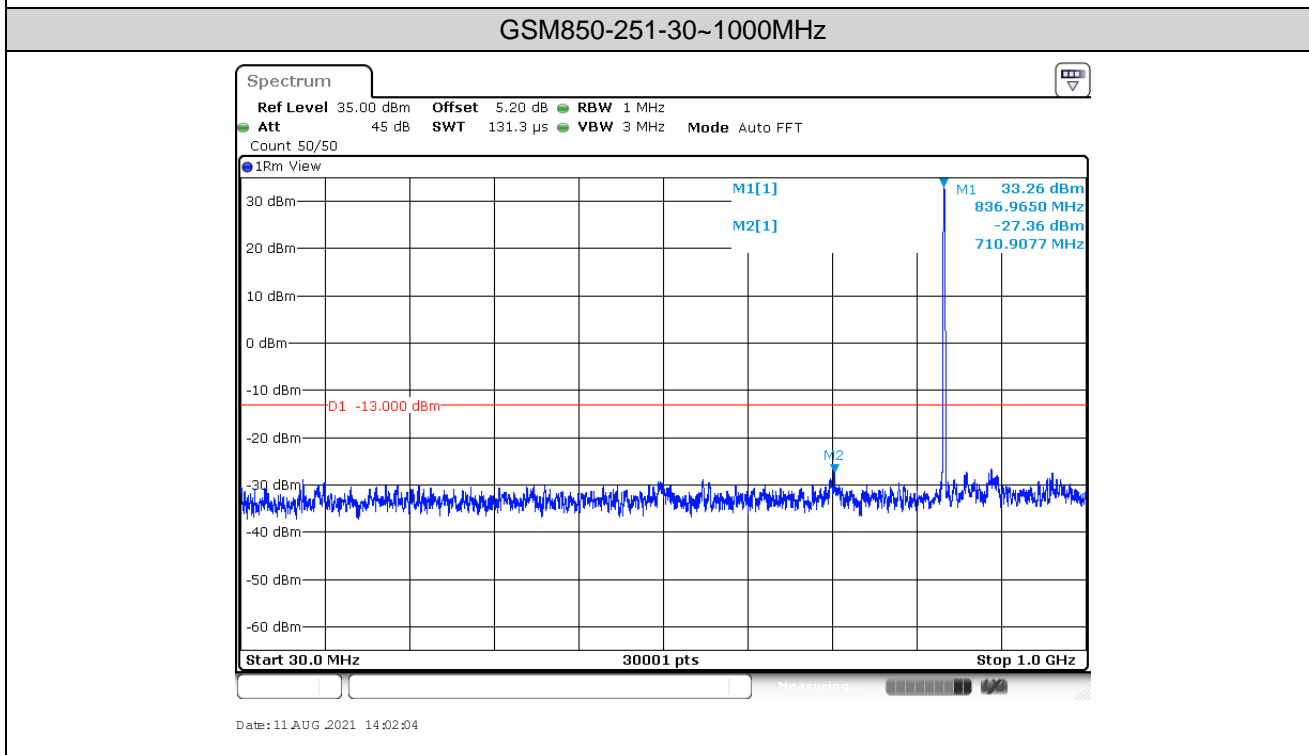
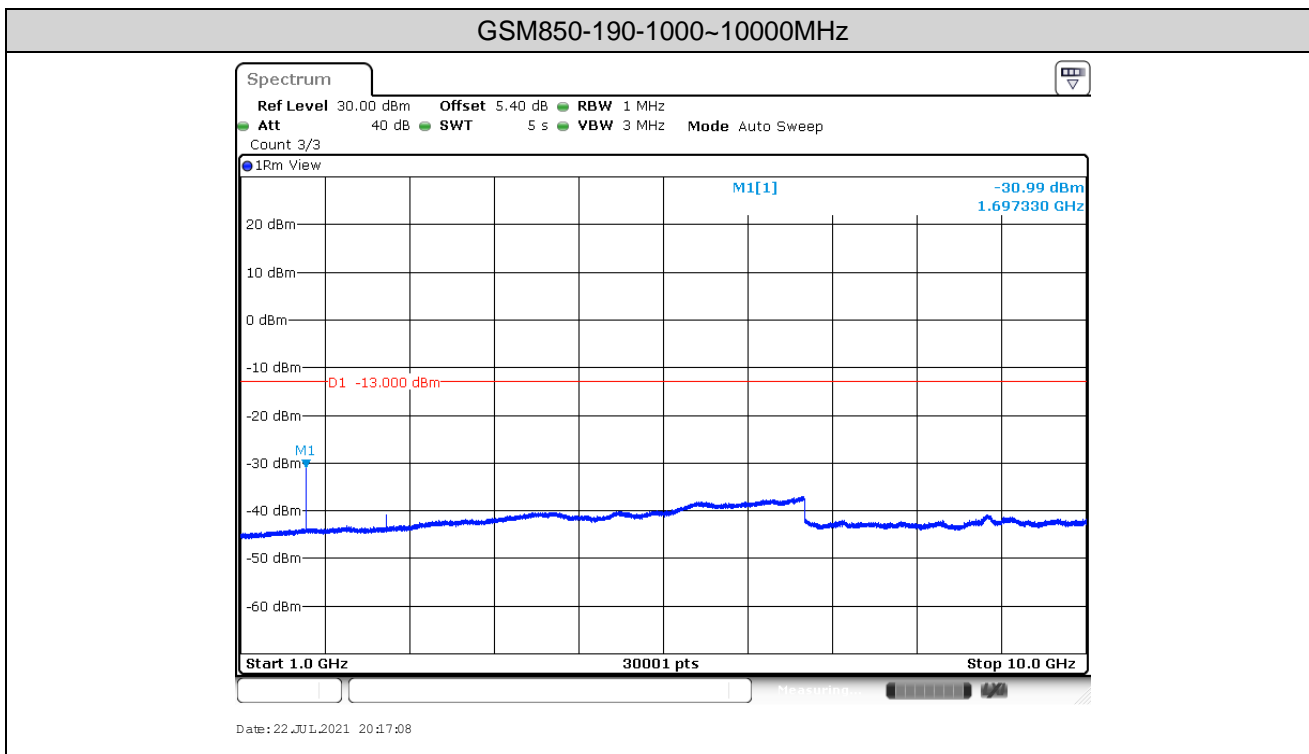


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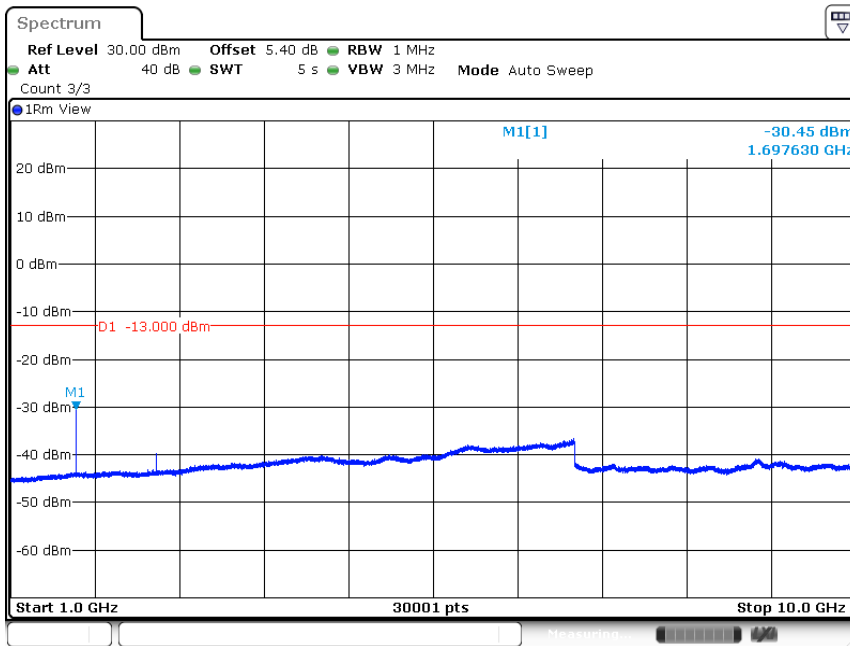
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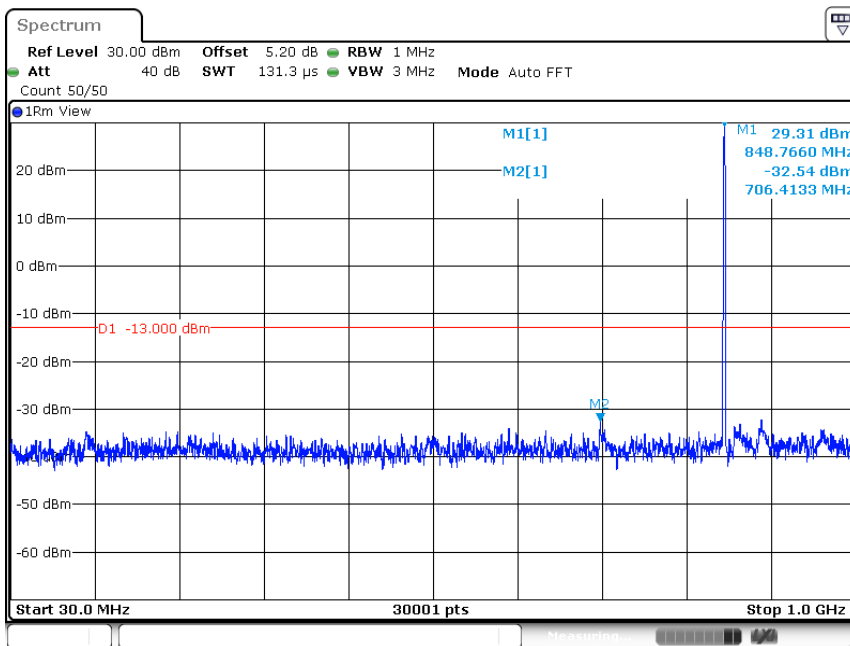
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GSM850-251-1000~10000MHz



Date: 22 JUL 2021 20:17:46

EGPRS850-128-30~1000MHz

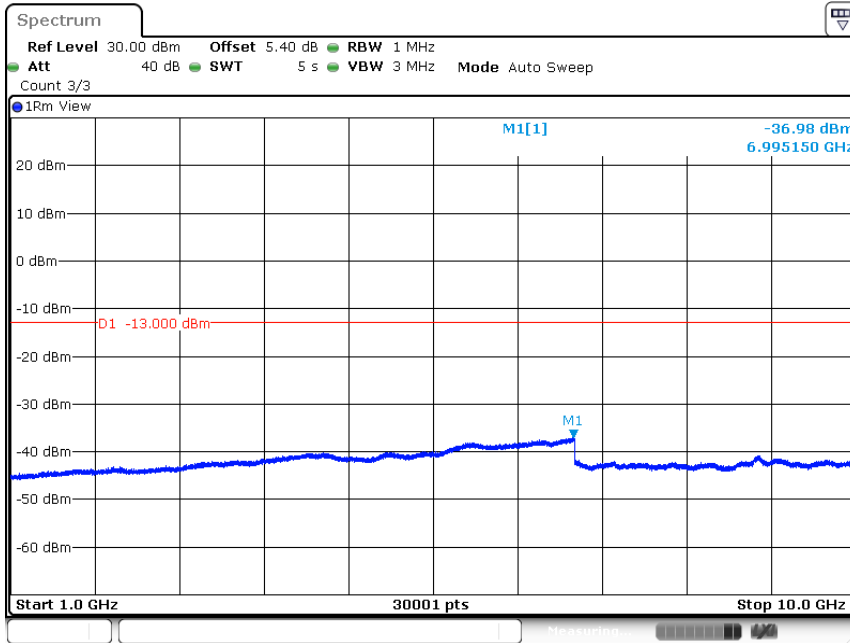


Date: 22 JUL 2021 20:25:45



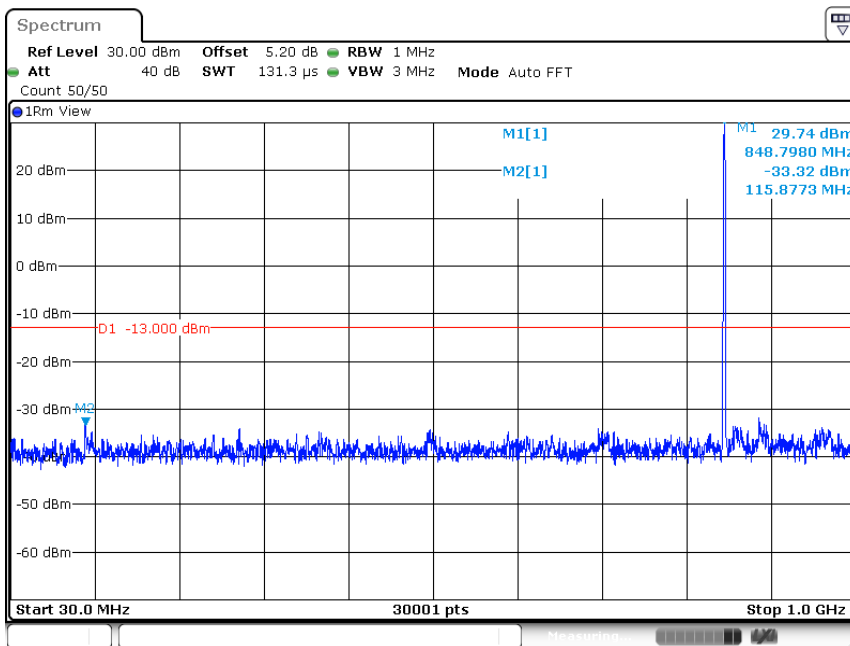
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EGPRS850-128-1000~10000MHz



Date: 22 JUL 2021 20:26:09

EGPRS850-190-30~1000MHz



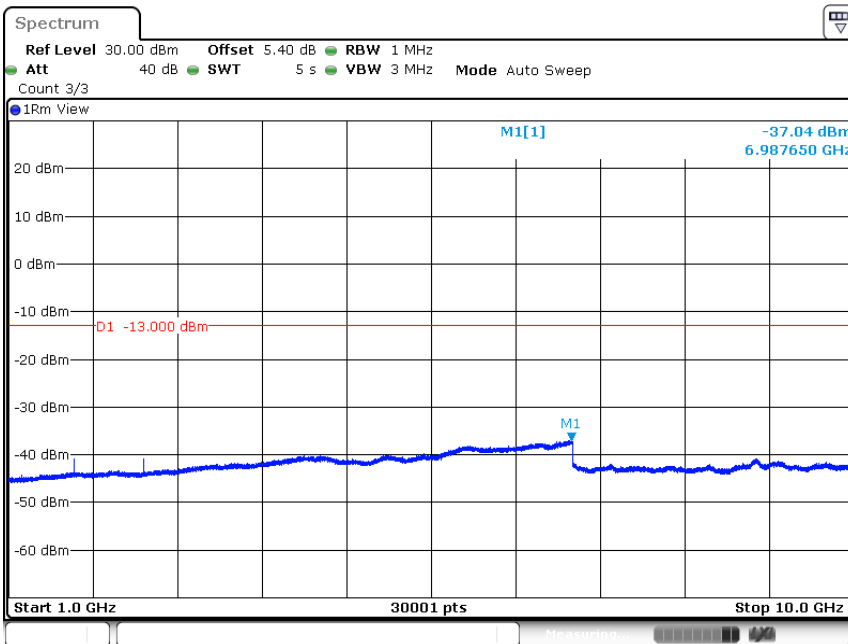
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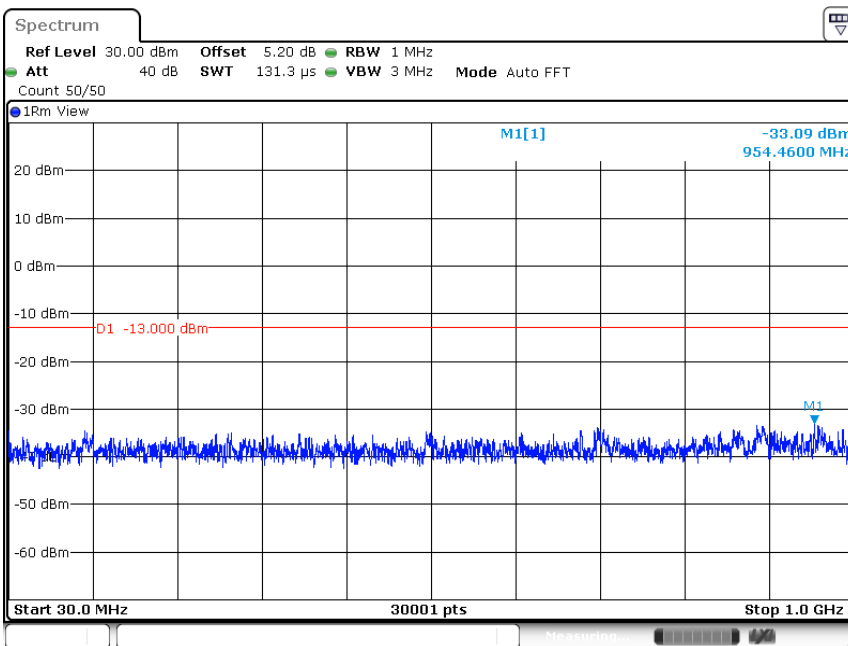
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EGPRS850-251-1000~10000MHz



Date: 22 JUL 2021 20:27:24

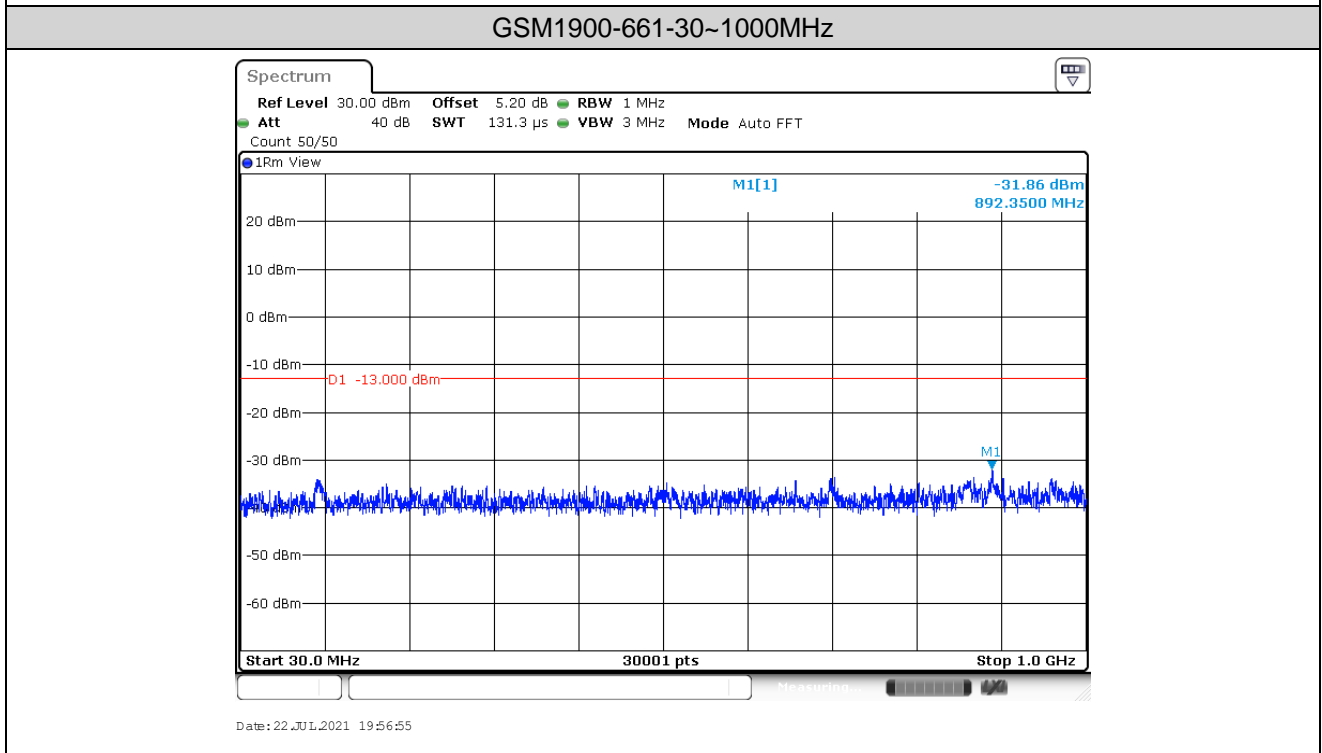
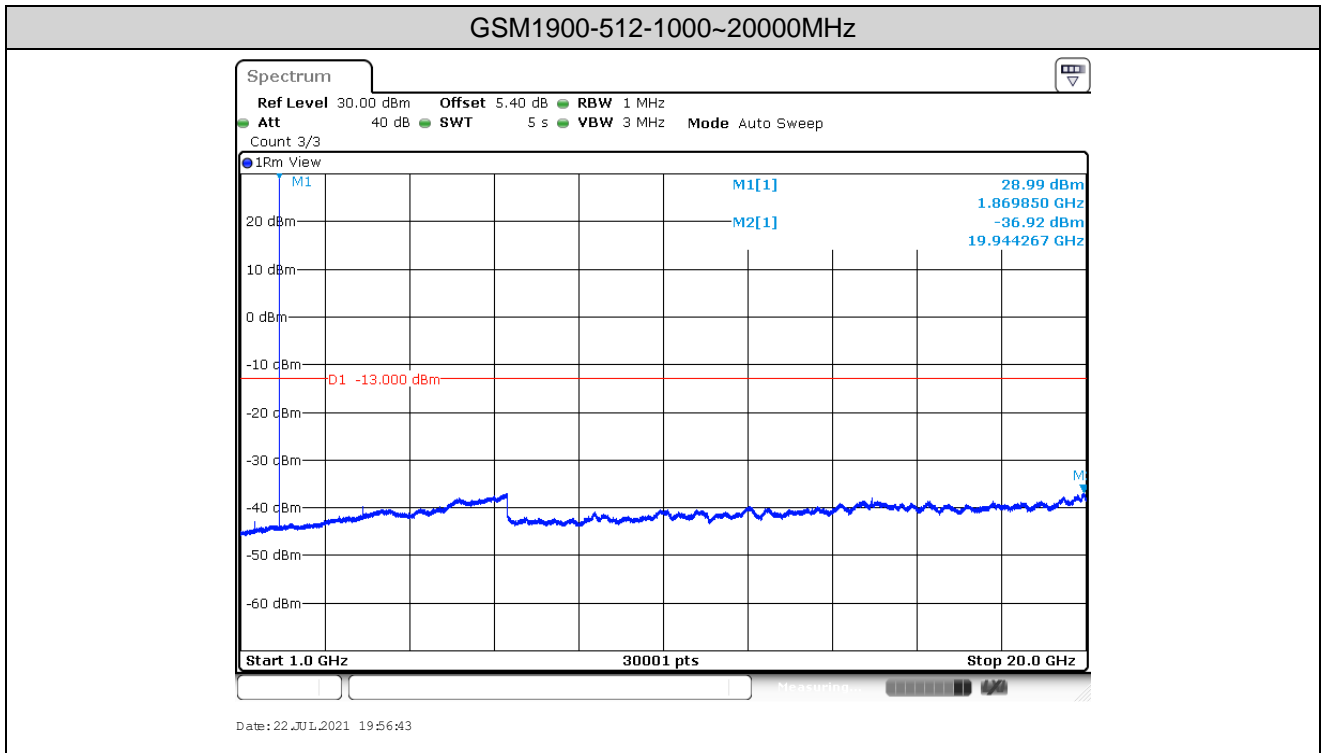
GSM1900-512-30~1000MHz



Date: 22 JUL 2021 19:56:18

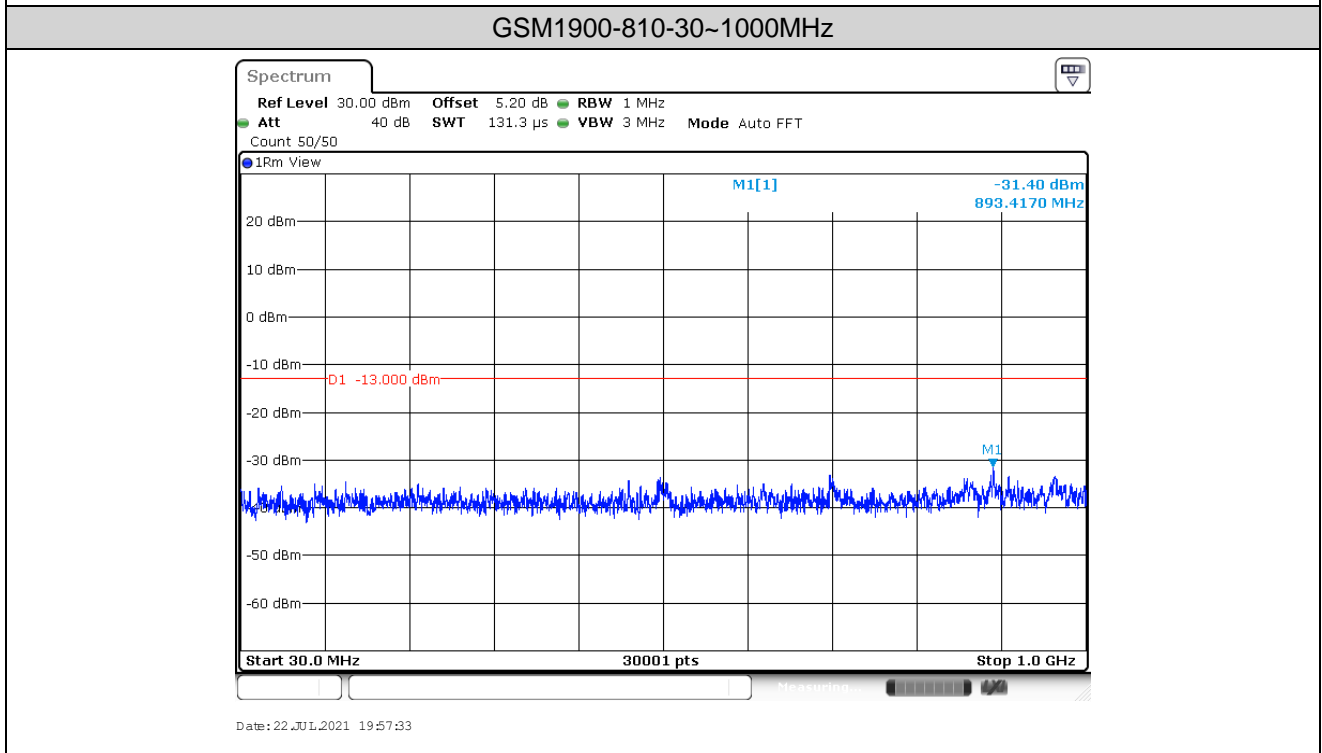
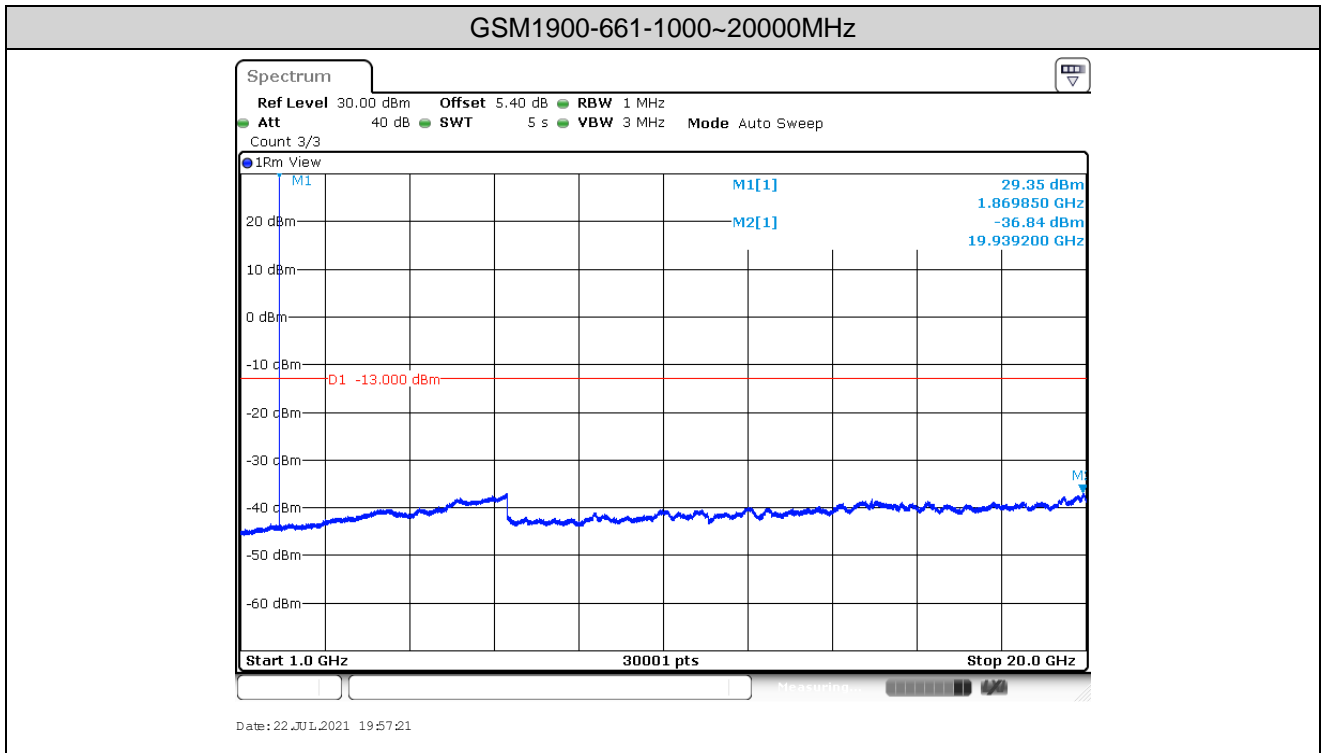


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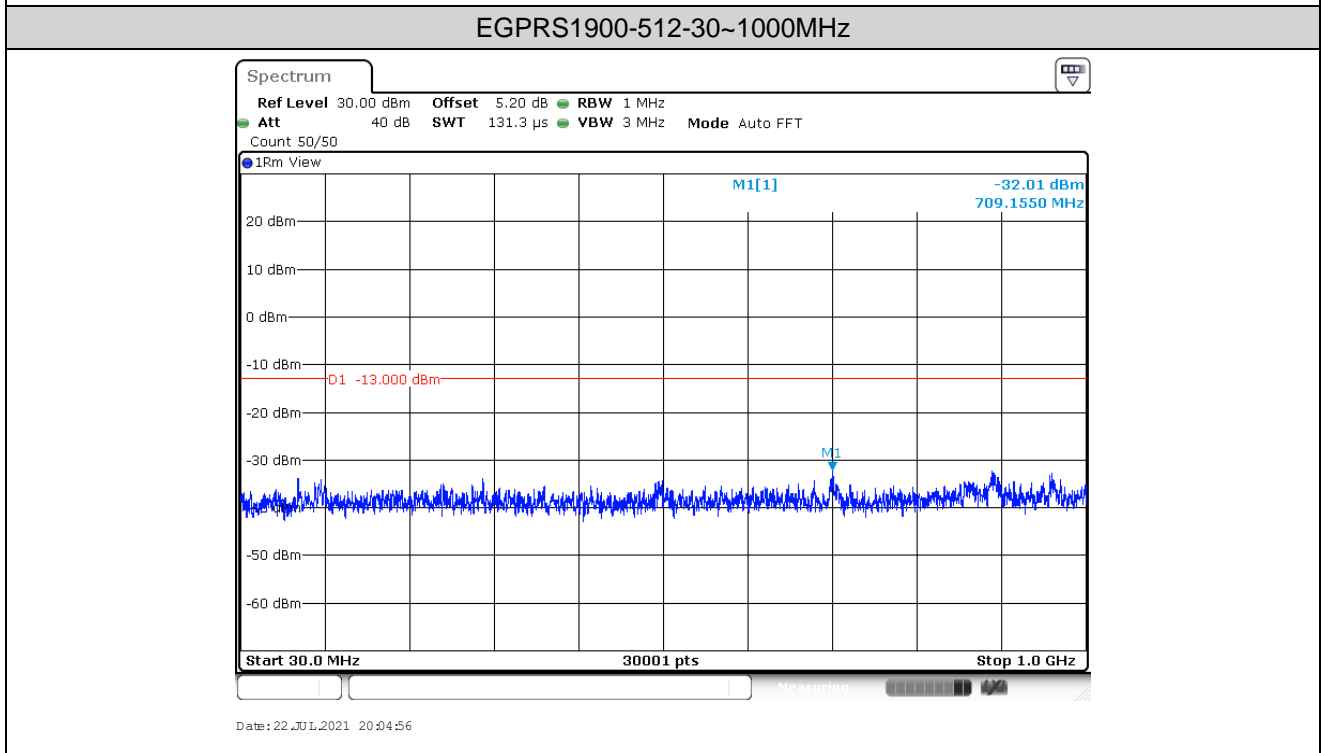
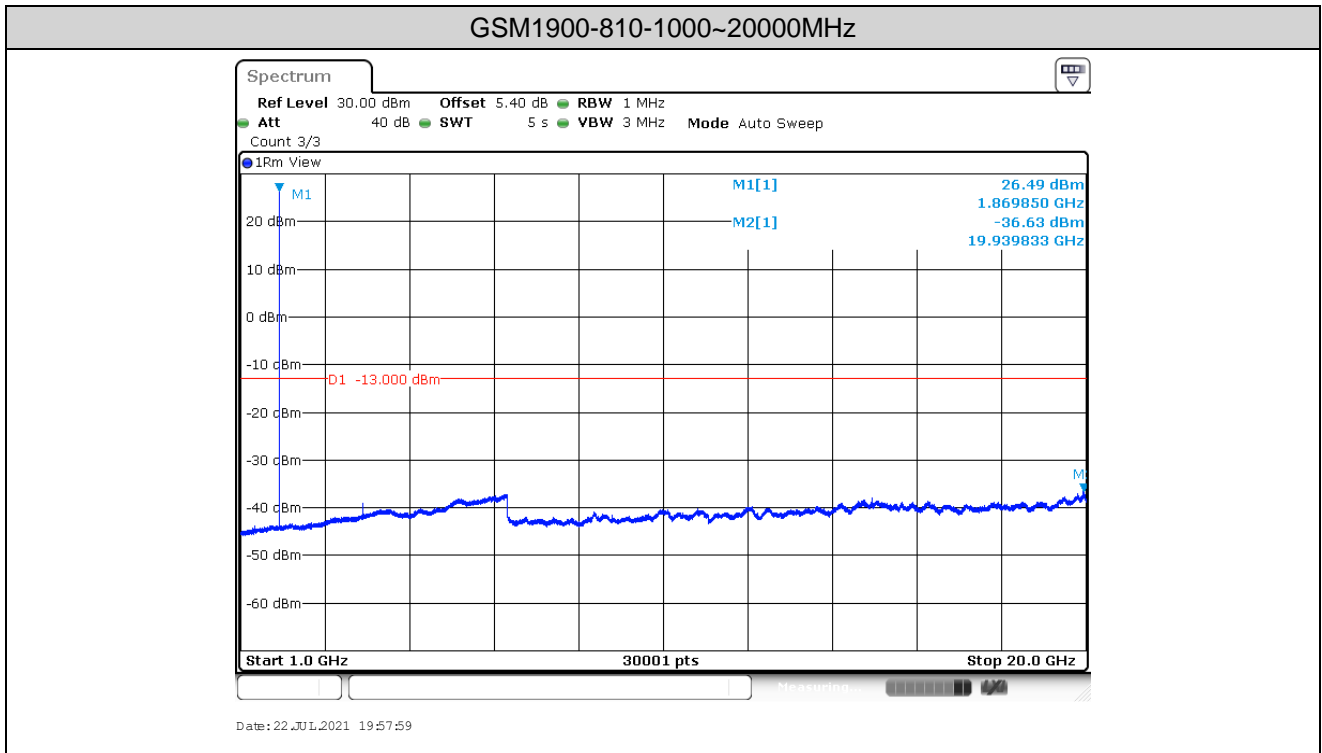
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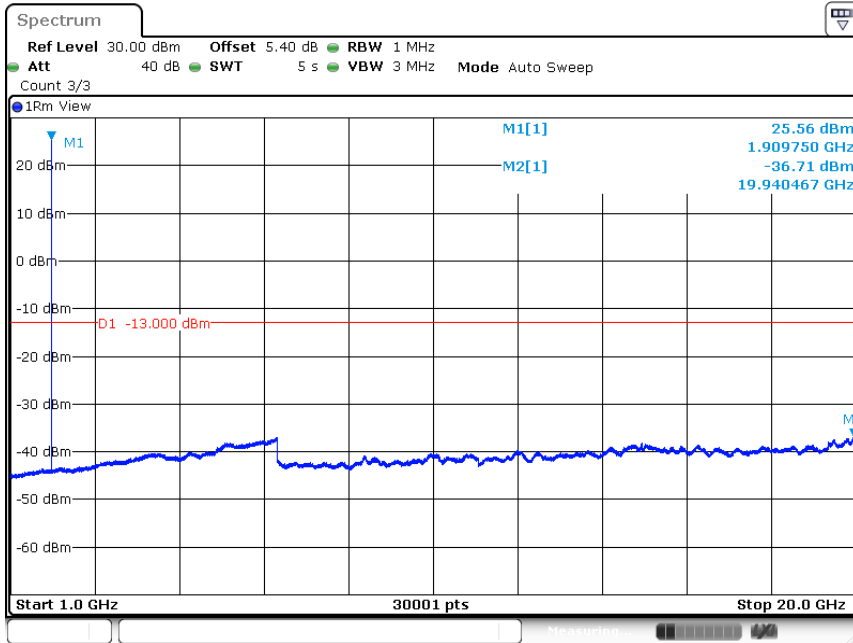
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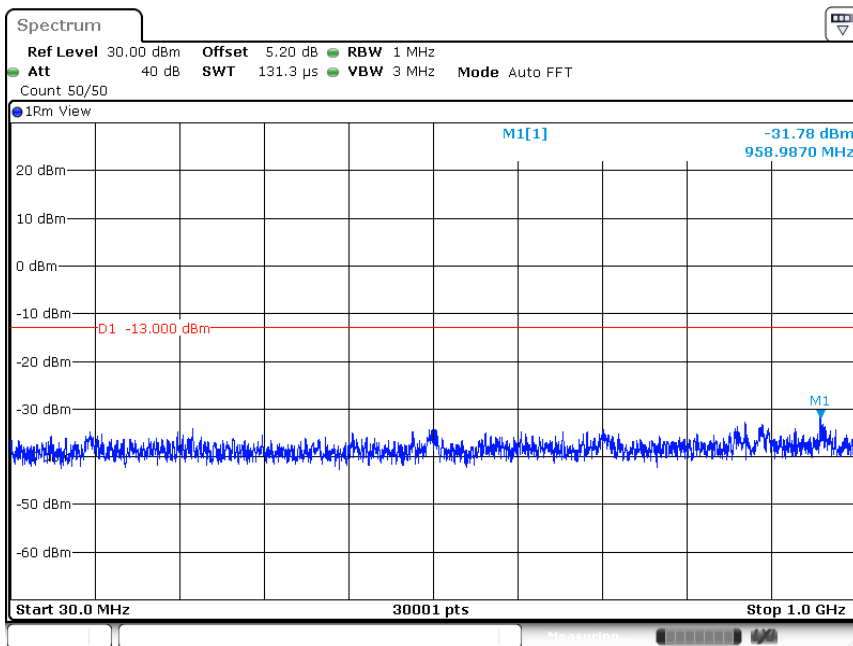
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EGPRS1900-512-1000~20000MHz



Date: 22 JUL 2021 20:05:51

EGPRS1900-661-30~1000MHz

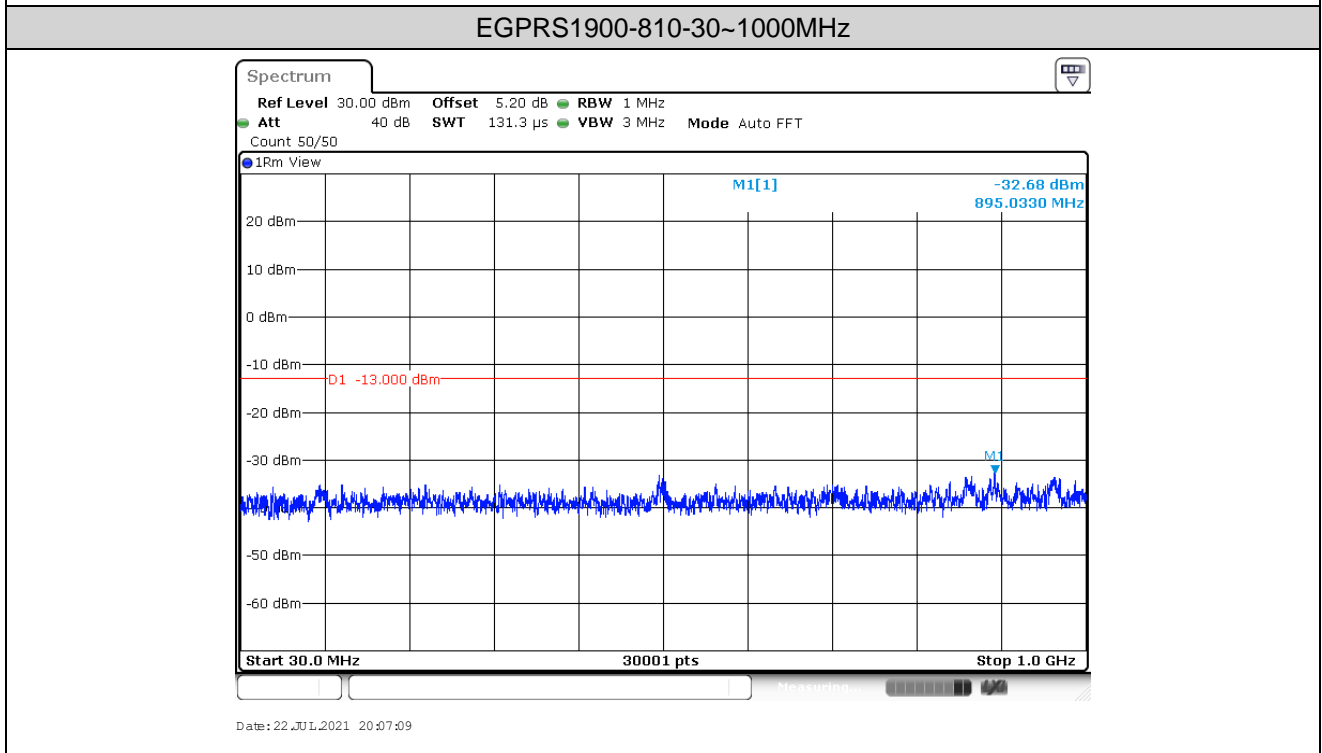
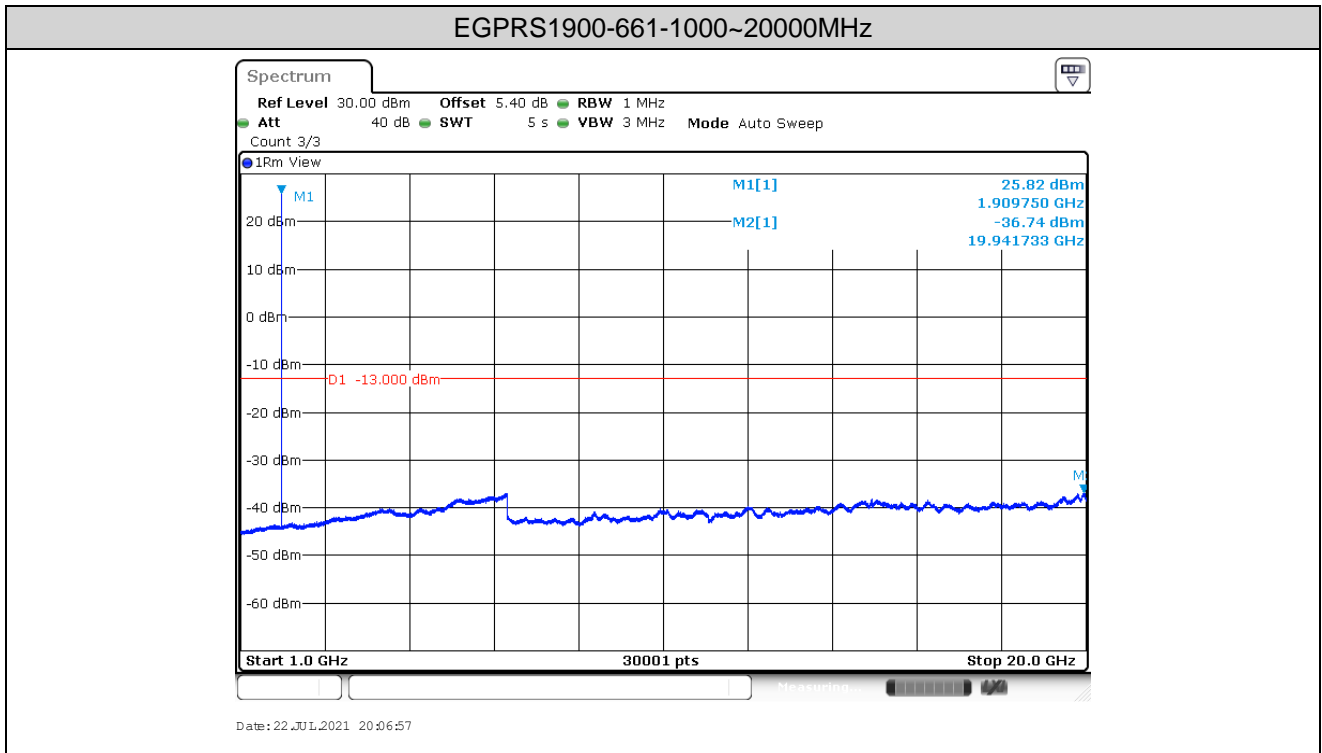


Date: 22 JUL 2021 20:06:03



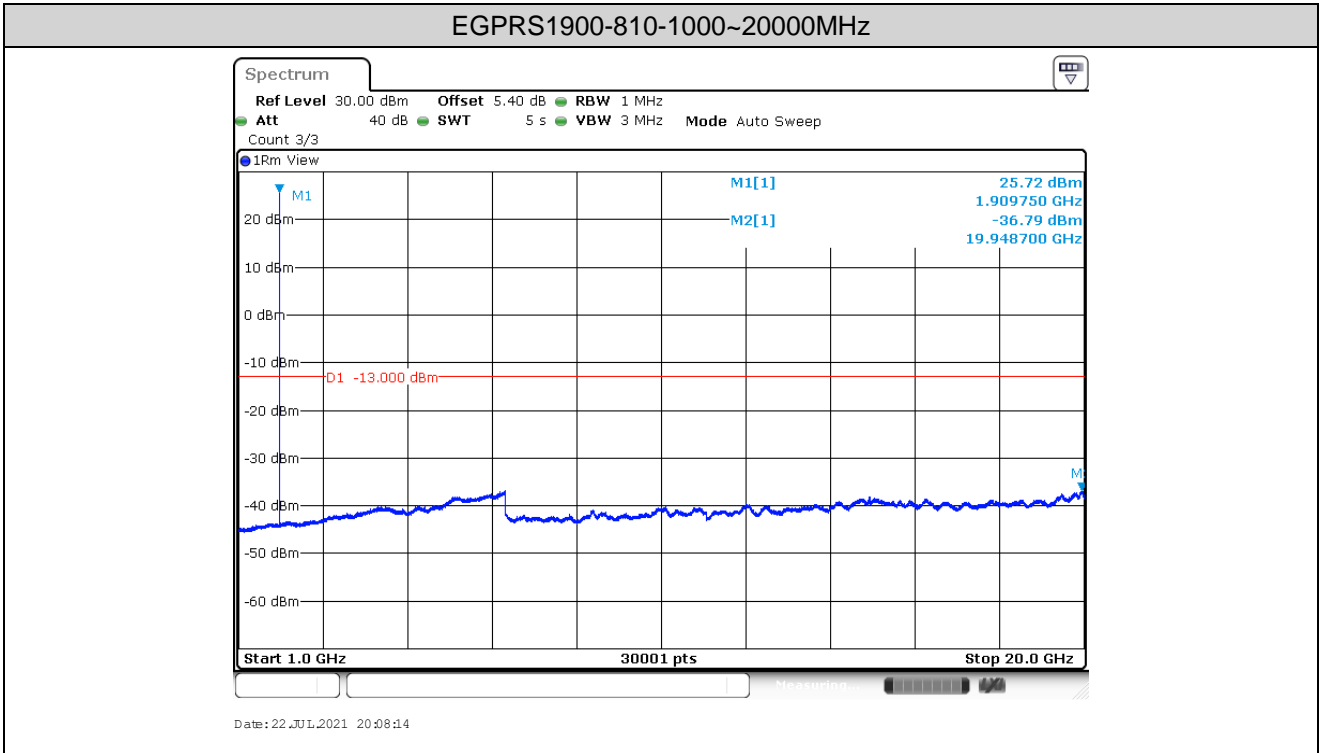
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7. Field Strength of Spurious Radiation

7.1. Test Band = _850

7.1.1. Test Channel = Low

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1648.3324 | 44.70 | -44.57 | -13.00 | 31.57 | Horizontal |
| 2 | 2472.5736 | 43.99 | -43.26 | -13.00 | 30.26 | Horizontal |
| 3 | 3297.0149 | 59.67 | -59.27 | -13.00 | 46.27 | Horizontal |
| 4 | 4121.3061 | 55.60 | -60.73 | -13.00 | 47.73 | Horizontal |
| 5 | 6500.4250 | 47.84 | -58.56 | -13.00 | 45.56 | Horizontal |
| 6 | 14012.0506 | 45.14 | -46.96 | -13.00 | 33.96 | Horizontal |



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7.2. Test Band = _850

7.2.1. Test Channel = Low

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1648.2324 | 40.40 | -48.87 | -13.00 | 35.87 | Vertical |
| 2 | 2472.4736 | 46.91 | -40.34 | -13.00 | 27.34 | Vertical |
| 3 | 3297.0149 | 58.56 | -60.38 | -13.00 | 47.38 | Vertical |
| 4 | 4121.3061 | 58.09 | -58.24 | -13.00 | 45.24 | Vertical |
| 5 | 7471.7236 | 48.94 | -54.97 | -13.00 | 41.97 | Vertical |
| 6 | 12430.9715 | 45.12 | -48.05 | -13.00 | 35.05 | Vertical |



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7.3. Test Band = _850

7.3.1. Test Channel = Mid

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1673.2337 | 45.58 | -43.47 | -13.00 | 30.47 | Horizontal |
| 2 | 2509.7755 | 41.51 | -45.83 | -13.00 | 32.83 | Horizontal |
| 3 | 3346.5173 | 65.17 | -53.25 | -13.00 | 40.25 | Horizontal |
| 4 | 4182.8091 | 57.32 | -58.44 | -13.00 | 45.44 | Horizontal |
| 5 | 6974.4487 | 48.53 | -57.53 | -13.00 | 44.53 | Horizontal |
| 6 | 13030.2515 | 45.05 | -46.98 | -13.00 | 33.98 | Horizontal |



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7.4. Test Band = _850

7.4.1. Test Channel = Mid

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1673.2337 | 42.36 | -46.69 | -13.00 | 33.69 | Vertical |
| 2 | 2509.6755 | 41.15 | -46.19 | -13.00 | 33.19 | Vertical |
| 3 | 3346.5173 | 62.43 | -55.99 | -13.00 | 42.99 | Vertical |
| 4 | 4182.8091 | 61.95 | -53.81 | -13.00 | 40.81 | Vertical |
| 5 | 7470.9735 | 48.22 | -55.69 | -13.00 | 42.69 | Vertical |
| 6 | 13363.2682 | 45.31 | -46.87 | -13.00 | 33.87 | Vertical |



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7.5. Test Band = _850

7.5.1. Test Channel = High

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1697.5349 | 46.38 | -42.46 | -13.00 | 29.46 | Horizontal |
| 2 | 2546.1773 | 39.84 | -47.13 | -13.00 | 34.13 | Horizontal |
| 3 | 3395.2698 | 67.32 | -51.36 | -13.00 | 38.36 | Horizontal |
| 4 | 4244.3122 | 59.56 | -56.02 | -13.00 | 43.02 | Horizontal |
| 5 | 7886.4943 | 48.03 | -55.14 | -13.00 | 42.14 | Horizontal |
| 6 | 12832.2416 | 45.02 | -47.55 | -13.00 | 34.55 | Horizontal |



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7.6. Test Band = _850

7.6.1. Test Channel = High

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1697.5349 | 43.68 | -45.16 | -13.00 | 32.16 | Vertical |
| 2 | 2546.3773 | 40.84 | -46.13 | -13.00 | 33.13 | Vertical |
| 3 | 3395.2698 | 64.74 | -53.94 | -13.00 | 40.94 | Vertical |
| 4 | 4244.3122 | 57.81 | -57.77 | -13.00 | 44.77 | Vertical |
| 5 | 7473.9737 | 48.13 | -55.76 | -13.00 | 42.76 | Vertical |
| 6 | 13629.5315 | 44.73 | -47.26 | -13.00 | 34.26 | Vertical |



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7.7. Test Band = _1900

7.7.1. Test Channel = Low

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 2321.7661 | 22.11 | -46.71 | -13.00 | 33.71 | Horizontal |
| 2 | 3700.5350 | 68.75 | -49.45 | -13.00 | 36.45 | Horizontal |
| 3 | 5550.8775 | 68.80 | -41.38 | -13.00 | 28.38 | Horizontal |
| 4 | 7350.2175 | 47.88 | -56.87 | -13.00 | 43.87 | Horizontal |
| 5 | 9542.5771 | 46.59 | -53.21 | -13.00 | 40.21 | Horizontal |
| 6 | 16391.9196 | 46.82 | -43.71 | -13.00 | 30.71 | Horizontal |



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7.8. Test Band = _1900

7.8.1. Test Channel = Low

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 2341.7671 | 22.19 | -46.63 | -13.00 | 33.63 | Vertical |
| 2 | 3700.5350 | 67.13 | -51.07 | -13.00 | 38.07 | Vertical |
| 3 | 5550.8775 | 66.36 | -43.82 | -13.00 | 30.82 | Vertical |
| 4 | 8311.0156 | 47.48 | -55.07 | -13.00 | 42.07 | Vertical |
| 5 | 11394.4197 | 45.22 | -50.44 | -13.00 | 37.44 | Vertical |
| 6 | 16394.9197 | 46.91 | -43.55 | -13.00 | 30.55 | Vertical |



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7.9. Test Band = _1900

7.9.1. Test Channel = Mid

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 2498.4749 | 22.15 | -46.15 | -13.00 | 33.15 | Horizontal |
| 2 | 3759.7880 | 65.28 | -52.22 | -13.00 | 39.22 | Horizontal |
| 3 | 5640.1320 | 67.04 | -42.74 | -13.00 | 29.74 | Horizontal |
| 4 | 7472.4736 | 48.78 | -55.12 | -13.00 | 42.12 | Horizontal |
| 5 | 12414.4707 | 45.48 | -47.82 | -13.00 | 34.82 | Horizontal |
| 6 | 17984.2492 | 47.17 | -46.01 | -13.00 | 33.01 | Horizontal |



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7.10. Test Band = _1900

7.10.1. Test Channel = Mid

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3759.7880 | 63.57 | -53.93 | -13.00 | 40.93 | Vertical |
| 2 | 5640.1320 | 65.74 | -44.04 | -13.00 | 31.04 | Vertical |
| 3 | 7391.4696 | 48.26 | -56.56 | -13.00 | 43.56 | Vertical |
| 4 | 10104.3552 | 45.97 | -52.33 | -13.00 | 39.33 | Vertical |
| 5 | 14037.5519 | 44.38 | -47.31 | -13.00 | 34.31 | Vertical |
| 6 | 16403.9202 | 45.99 | -44.44 | -13.00 | 31.44 | Vertical |



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7.11. Test Band = _1900

7.11.1. Test Channel = High

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3819.7910 | 62.05 | -55.60 | -13.00 | 42.60 | Horizontal |
| 2 | 5729.3865 | 65.05 | -44.62 | -13.00 | 31.62 | Horizontal |
| 3 | 7459.7230 | 47.99 | -56.03 | -13.00 | 43.03 | Horizontal |
| 4 | 9559.8280 | 46.66 | -53.04 | -13.00 | 40.04 | Horizontal |
| 5 | 14048.0524 | 43.78 | -47.74 | -13.00 | 34.74 | Horizontal |
| 6 | 16928.1964 | 44.34 | -45.88 | -13.00 | 32.88 | Horizontal |



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7.12. Test Band = _1900

7.12.1. Test Channel = High

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 2509.1755 | 22.15 | -46.21 | -13.00 | 33.21 | Vertical |
| 2 | 3819.7910 | 58.85 | -58.80 | -13.00 | 45.80 | Vertical |
| 3 | 5729.3865 | 66.27 | -43.40 | -13.00 | 30.40 | Vertical |
| 4 | 8806.0403 | 46.84 | -54.32 | -13.00 | 41.32 | Vertical |
| 5 | 13003.2502 | 44.06 | -47.81 | -13.00 | 34.81 | Vertical |
| 6 | 16862.1931 | 44.99 | -45.69 | -13.00 | 32.69 | 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 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

| Band | Channel | Voltage | | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| | | Voltage [Vdc] | Temperature (°C) | | | | |
| GSM850 | 128 | VL | NT | -2.52 | -0.003058 | ±2.5 | PASS |
| GSM850 | 128 | VN | NT | -15.05 | -0.018260 | ±2.5 | PASS |
| GSM850 | 128 | VH | NT | -2.39 | -0.002900 | ±2.5 | PASS |
| GSM850 | 190 | VL | NT | -4.71 | -0.005630 | ±2.5 | PASS |
| GSM850 | 190 | VN | NT | 2.91 | 0.003478 | ±2.5 | PASS |
| GSM850 | 190 | VH | NT | -1.55 | -0.001853 | ±2.5 | PASS |
| GSM850 | 251 | VL | NT | -1.42 | -0.001673 | ±2.5 | PASS |
| GSM850 | 251 | VN | NT | 0.32 | 0.000377 | ±2.5 | PASS |
| GSM850 | 251 | VH | NT | -0.90 | -0.001060 | ±2.5 | PASS |
| EGPRS850 | 128 | VL | NT | 8.68 | 0.010531 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | NT | 7.14 | 0.008663 | ±2.5 | PASS |
| EGPRS850 | 128 | VH | NT | 9.10 | 0.011041 | ±2.5 | PASS |
| EGPRS850 | 190 | VL | NT | 6.84 | 0.008176 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | NT | 7.14 | 0.008535 | ±2.5 | PASS |
| EGPRS850 | 190 | VH | NT | 7.88 | 0.009419 | ±2.5 | PASS |
| EGPRS850 | 251 | VL | NT | 8.30 | 0.009779 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | NT | 7.52 | 0.008860 | ±2.5 | PASS |
| EGPRS850 | 251 | VH | NT | 9.27 | 0.010921 | ±2.5 | PASS |
| GSM1900 | 512 | VL | NT | -8.14 | -0.004400 | ±2.5 | PASS |
| GSM1900 | 512 | VN | NT | -8.78 | -0.004745 | ±2.5 | PASS |
| GSM1900 | 512 | VH | NT | -8.65 | -0.004675 | ±2.5 | PASS |
| GSM1900 | 661 | VL | NT | -10.91 | -0.005803 | ±2.5 | PASS |
| GSM1900 | 661 | VN | NT | -7.68 | -0.004085 | ±2.5 | PASS |
| GSM1900 | 661 | VH | NT | -14.72 | -0.007830 | ±2.5 | PASS |
| GSM1900 | 810 | VL | NT | -1.61 | -0.000843 | ±2.5 | PASS |
| GSM1900 | 810 | VN | NT | -4.46 | -0.002335 | ±2.5 | PASS |
| GSM1900 | 810 | VH | NT | -6.78 | -0.003550 | ±2.5 | PASS |
| EGPRS1900 | 512 | VL | NT | 5.13 | 0.002773 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | NT | 5.33 | 0.002881 | ±2.5 | PASS |
| EGPRS1900 | 512 | VH | NT | 5.29 | 0.002859 | ±2.5 | PASS |



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| | | | | | | | |
|-----------|-----|----|----|------|----------|------|------|
| EGPRS1900 | 661 | VL | NT | 3.68 | 0.001957 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | NT | 1.23 | 0.000654 | ±2.5 | PASS |
| EGPRS1900 | 661 | VH | NT | 3.16 | 0.001681 | ±2.5 | PASS |
| EGPRS1900 | 810 | VL | NT | 4.78 | 0.002503 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | NT | 5.26 | 0.002754 | ±2.5 | PASS |
| EGPRS1900 | 810 | VH | NT | 7.10 | 0.003718 | ±2.5 | PASS |



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8.2.Frequency Error Vs Temperature

| Temperature | | | | | | | |
|-------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| GSM850 | 128 | NV | -30 | 1.55 | 0.001881 | ±2.5 | PASS |
| GSM850 | 128 | NV | -20 | 0.84 | 0.001019 | ±2.5 | PASS |
| GSM850 | 128 | NV | -10 | -0.71 | -0.000861 | ±2.5 | PASS |
| GSM850 | 128 | NV | 0 | 1.23 | 0.001492 | ±2.5 | PASS |
| GSM850 | 128 | NV | 10 | -0.19 | -0.000231 | ±2.5 | PASS |
| GSM850 | 128 | NV | 20 | -0.97 | -0.001177 | ±2.5 | PASS |
| GSM850 | 128 | NV | 30 | -2.26 | -0.002742 | ±2.5 | PASS |
| GSM850 | 128 | NV | 40 | -4.20 | -0.005096 | ±2.5 | PASS |
| GSM850 | 128 | NV | 50 | -0.97 | -0.001177 | ±2.5 | PASS |
| GSM850 | 190 | NV | -30 | -2.52 | -0.003012 | ±2.5 | PASS |
| GSM850 | 190 | NV | -20 | -2.58 | -0.003084 | ±2.5 | PASS |
| GSM850 | 190 | NV | -10 | 0.13 | 0.000155 | ±2.5 | PASS |
| GSM850 | 190 | NV | 0 | -2.26 | -0.002701 | ±2.5 | PASS |
| GSM850 | 190 | NV | 10 | -2.20 | -0.002630 | ±2.5 | PASS |
| GSM850 | 190 | NV | 20 | -3.75 | -0.004482 | ±2.5 | PASS |
| GSM850 | 190 | NV | 30 | -2.84 | -0.003395 | ±2.5 | PASS |
| GSM850 | 190 | NV | 40 | -4.33 | -0.005176 | ±2.5 | PASS |
| GSM850 | 190 | NV | 50 | -1.23 | -0.001470 | ±2.5 | PASS |
| GSM850 | 251 | NV | -30 | -0.71 | -0.000836 | ±2.5 | PASS |
| GSM850 | 251 | NV | -20 | 1.29 | 0.001520 | ±2.5 | PASS |
| GSM850 | 251 | NV | -10 | -0.58 | -0.000683 | ±2.5 | PASS |
| GSM850 | 251 | NV | 0 | -2.39 | -0.002816 | ±2.5 | PASS |
| GSM850 | 251 | NV | 10 | 0.77 | 0.000907 | ±2.5 | PASS |
| GSM850 | 251 | NV | 20 | -1.87 | -0.002203 | ±2.5 | PASS |
| GSM850 | 251 | NV | 30 | 1.03 | 0.001213 | ±2.5 | PASS |
| GSM850 | 251 | NV | 40 | -1.81 | -0.002132 | ±2.5 | PASS |
| GSM850 | 251 | NV | 50 | -2.26 | -0.002663 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | -30 | 9.30 | 0.011284 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | -20 | 9.04 | 0.010968 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | -10 | 11.27 | 0.013674 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | 0 | 11.53 | 0.013989 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | 10 | 9.30 | 0.011284 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | 20 | 11.43 | 0.013868 | ±2.5 | PASS |



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| | | | | | | | |
|----------|-----|----|-----|--------|-----------|------|------|
| EGPRS850 | 128 | NV | 30 | 9.94 | 0.012060 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | 40 | 11.27 | 0.013674 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | 50 | 10.65 | 0.012922 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | -30 | 8.98 | 0.010734 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | -20 | 7.39 | 0.008833 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | -10 | 7.62 | 0.009108 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 0 | 8.88 | 0.010614 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 10 | 7.62 | 0.009108 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 20 | 7.78 | 0.009300 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 30 | 11.07 | 0.013232 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 40 | 8.94 | 0.010686 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 50 | 8.46 | 0.010112 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | -30 | 7.55 | 0.008895 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | -20 | 7.65 | 0.009013 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | -10 | 6.91 | 0.008141 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 0 | 7.01 | 0.008259 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 10 | 7.94 | 0.009354 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 20 | 6.42 | 0.007564 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 30 | 7.17 | 0.008447 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 40 | 8.30 | 0.009779 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 50 | 8.49 | 0.010002 | ±2.5 | PASS |
| GSM1900 | 512 | NV | -30 | -9.36 | -0.005059 | ±2.5 | PASS |
| GSM1900 | 512 | NV | -20 | -8.27 | -0.004470 | ±2.5 | PASS |
| GSM1900 | 512 | NV | -10 | -10.46 | -0.005653 | ±2.5 | PASS |
| GSM1900 | 512 | NV | 0 | -4.20 | -0.002270 | ±2.5 | PASS |
| GSM1900 | 512 | NV | 10 | -6.39 | -0.003454 | ±2.5 | PASS |
| GSM1900 | 512 | NV | 20 | -10.01 | -0.005410 | ±2.5 | PASS |
| GSM1900 | 512 | NV | 30 | -5.23 | -0.002827 | ±2.5 | PASS |
| GSM1900 | 512 | NV | 40 | -8.72 | -0.004713 | ±2.5 | PASS |
| GSM1900 | 512 | NV | 50 | -7.17 | -0.003875 | ±2.5 | PASS |
| GSM1900 | 661 | NV | -30 | -6.07 | -0.003229 | ±2.5 | PASS |
| GSM1900 | 661 | NV | -20 | -1.68 | -0.000894 | ±2.5 | PASS |
| GSM1900 | 661 | NV | -10 | -11.56 | -0.006149 | ±2.5 | PASS |
| GSM1900 | 661 | NV | 0 | -11.88 | -0.006319 | ±2.5 | PASS |
| GSM1900 | 661 | NV | 10 | -6.72 | -0.003574 | ±2.5 | PASS |
| GSM1900 | 661 | NV | 20 | -9.43 | -0.005016 | ±2.5 | PASS |
| GSM1900 | 661 | NV | 30 | -6.39 | -0.003399 | ±2.5 | PASS |



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| | | | | | | | |
|-----------|-----|----|-----|--------|-----------|------|------|
| GSM1900 | 661 | NV | 40 | -6.97 | -0.003707 | ±2.5 | PASS |
| GSM1900 | 661 | NV | 50 | -9.49 | -0.005048 | ±2.5 | PASS |
| GSM1900 | 810 | NV | -30 | -5.94 | -0.003110 | ±2.5 | PASS |
| GSM1900 | 810 | NV | -20 | -6.52 | -0.003414 | ±2.5 | PASS |
| GSM1900 | 810 | NV | -10 | -8.98 | -0.004702 | ±2.5 | PASS |
| GSM1900 | 810 | NV | 0 | -6.26 | -0.003278 | ±2.5 | PASS |
| GSM1900 | 810 | NV | 10 | -9.49 | -0.004969 | ±2.5 | PASS |
| GSM1900 | 810 | NV | 20 | -7.10 | -0.003718 | ±2.5 | PASS |
| GSM1900 | 810 | NV | 30 | -10.98 | -0.005749 | ±2.5 | PASS |
| GSM1900 | 810 | NV | 40 | -5.81 | -0.003042 | ±2.5 | PASS |
| GSM1900 | 810 | NV | 50 | -13.30 | -0.006964 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | -30 | 6.26 | 0.003383 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | -20 | 7.55 | 0.004081 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | -10 | 5.88 | 0.003178 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 0 | 7.26 | 0.003924 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 10 | 2.97 | 0.001605 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 20 | 5.26 | 0.002843 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 30 | 9.46 | 0.005113 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 40 | 5.07 | 0.002740 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 50 | 4.68 | 0.002529 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | -30 | 7.23 | 0.003846 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | -20 | 4.39 | 0.002335 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | -10 | 3.10 | 0.001649 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 0 | 4.94 | 0.002628 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 10 | 5.13 | 0.002729 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 20 | 7.88 | 0.004191 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 30 | 4.23 | 0.002250 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 40 | 0.13 | 0.000069 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 50 | -0.19 | -0.000101 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | -30 | 7.94 | 0.004158 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | -20 | 5.00 | 0.002618 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | -10 | 3.55 | 0.001859 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 0 | 3.62 | 0.001895 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 10 | 7.04 | 0.003686 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 20 | 1.23 | 0.000644 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 30 | 3.71 | 0.001943 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 40 | 7.14 | 0.003739 | ±2.5 | PASS |



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| | | | | | | | |
|-----------|-----|----|----|------|----------|------|------|
| EGPRS1900 | 810 | NV | 50 | 3.00 | 0.001571 | ±2.5 | PASS |
|-----------|-----|----|----|------|----------|------|------|

The End



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