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Appendix B

WCDMA BAND II & IV & V



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1 Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

| BAND | Modulatio n | Channel | Power(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|--------------------|----------------|---------|------------|-----------|------------|---------|
| WCDMA Band II | QPSK | 9262 | 23.15 | 21.35 | 33.00 | PASS |
| WCDMA Band II QPSK | | 9400 | 23.19 | 21.39 | 33.00 | PASS |
| WCDMA Band II | QPSK | 9538 | 23.14 | 21.34 | 33.00 | PASS |
| WCDMA Band IV | QPSK | 1312 | 22.90 | 21.90 | 33.00 | PASS |
| WCDMA Band IV | QPSK | 1413 | 22.83 | 21.83 | 33.00 | PASS |
| WCDMA Band IV | QPSK | 1513 | 22.89 | 21.89 | 33.00 | PASS |

| BAND Modulation | | Channel | Power(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|-----------------|------|---------|------------|----------|------------|---------|
| WCDMA Band V | QPSK | 4132 | 24.21 | 14.86 | 38.45 | PASS |
| WCDMA Band V | QPSK | 4182 | 24.48 | 15.13 | 38.45 | PASS |
| WCDMA Band V | QPSK | 4233 | 24.34 | 14.99 | 38.45 | PASS |

Remark:

a: For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

b: SGP=Signal Generator Level



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2 Peak-to-Average Ratio

Part I - Test Results

| BAND | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|---------|---------|---------------------------|-----------|---------|
| Band II | 9262 | 2.75 | 13 | PASS |
| Band II | 9400 | 2.49 | 13 | PASS |
| Band II | 9538 | 2.64 | 13 | PASS |
| Band IV | 1312 | 3.13 | 13 | PASS |
| Band IV | 1413 | 3.30 | 13 | PASS |
| Band IV | 1513 | 3.22 | 13 | PASS |
| Band V | 4132 | 2.38 | 13 | PASS |
| Band V | 4182 | 2.81 | 13 | PASS |
| Band V | 4233 | 2.64 | 13 | PASS |



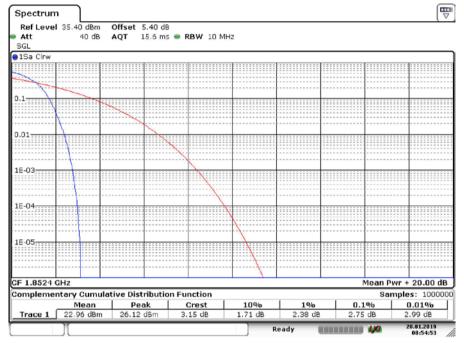
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2.1 For WCDMA

2.1.1 Test Band = WCDMA BAND II

Test Mode = UMTS/TM1

2.1.1.1.1 Test Channel = LCH



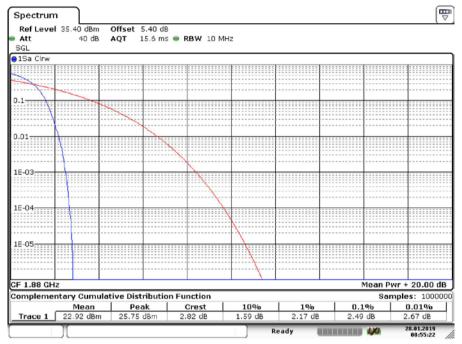
Date: 28.JAN.2019 08:54:54



Report No.: HR/2019/1001201

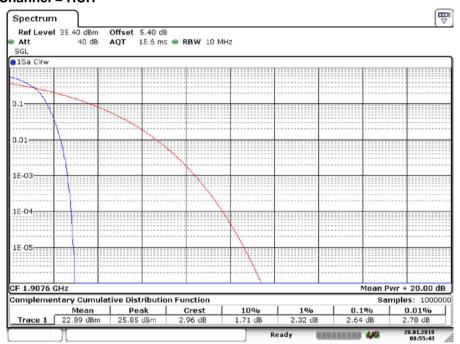
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2.1.1.1.2 Test Channel = MCH



Date: 28.JAN.2019 08:55:22

2.1.1.1.3 Test Channel = HCH



Date: 28.JAN.2019 08:55:43

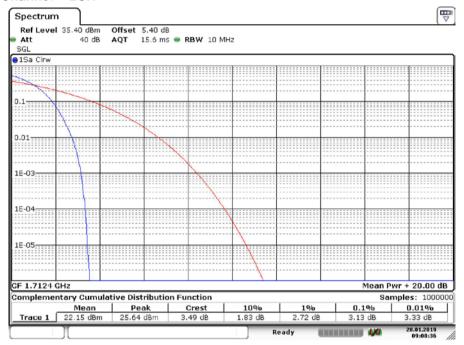


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2.1.2 Test Band = WCDMA BAND IV

2.1.2.1 Test Mode = UMTS/TM1

2.1.2.1.1 Test Channel = LCH



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2.1.2.1.2 Test Channel = MCH



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2.1.2.1.3 Test Channel = HCH

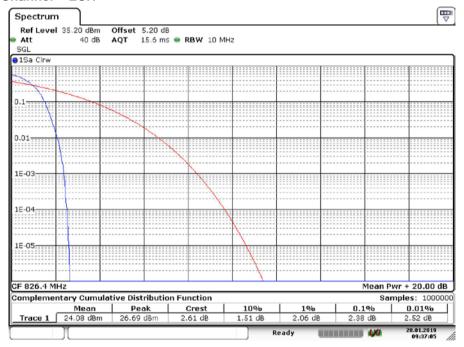


Date: 28.JAN.2019 09:07:53

2.1.3 Test Band = WCDMA BAND V

2.1.3.1 Test Mode = UMTS/TM1

2.1.3.1.1 Test Channel = LCH



Date: 28.JAN.2019 09:37:05



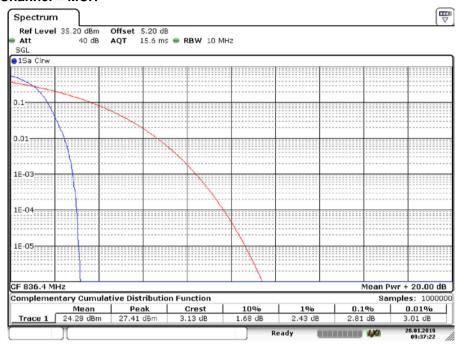
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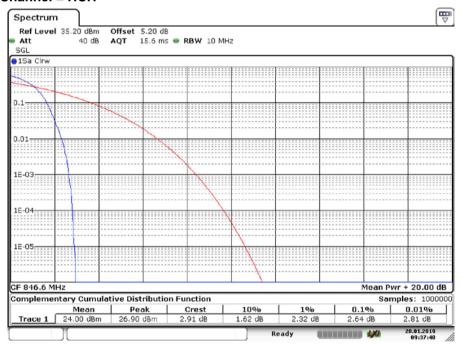
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2.1.3.1.2 Test Channel = MCH



Date: 28.JAN.2019 09:37:22

2.1.3.1.3 Test Channel = HCH



Date: 28.JAN.2019 09:37:40



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3 **Modulation Characteristics**

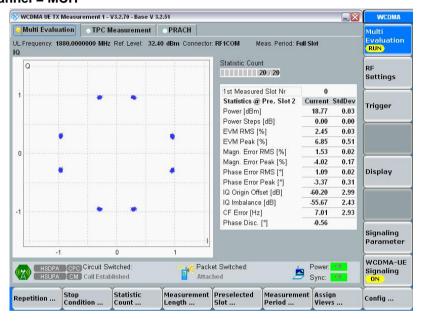
Part I - Test Plots

3.1 For WCDMA

3.1.1 Test Band = WCDMA BAND II

Test Mode = UMTS/TM1

3.1.1.1.1 Test Channel = MCH







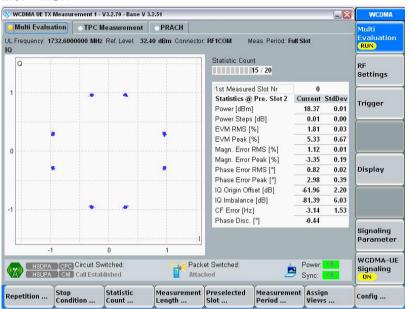
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3.1.2 Test Band = WCDMA BAND IV

Test Mode = UMTS /TM1 3.1.2.1

3.1.2.1.1 Test Channel = MCH



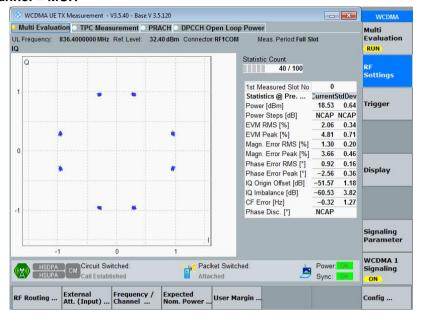


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3.1.3 Test Band = WCDMA BAND V

Test Mode = UMTS /TM1

3.1.3.1.1 Test Channel = MCH





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Bandwidth

Part I - Test Results

| BAND | Channel | Occupied | 26dB | Limit(kHz) | Verdic |
|---------|---------|----------------|----------------|---------------|--------|
| BAND | Chame | Bandwidth(kHz) | Bandwidth(kHz) | Lillit(Ki iz) | t |
| Band II | 9262 | 4.17 | 4.71 | | PASS |
| Band II | 9400 | 4.17 | 4.73 | | PASS |
| Band II | 9538 | 4.18 | 4.70 | | PASS |
| Band IV | 1312 | 4.16 | 4.70 | | PASS |
| Band IV | 1413 | 4.16 | 4.71 | | PASS |
| Band IV | 1513 | 4.16 | 4.71 | | PASS |
| Band V | 4132 | 4.18 | 4.74 | | PASS |
| Band V | 4182 | 4.16 | 4.70 | | PASS |
| Band V | 4233 | 4.18 | 4.71 | | PASS |



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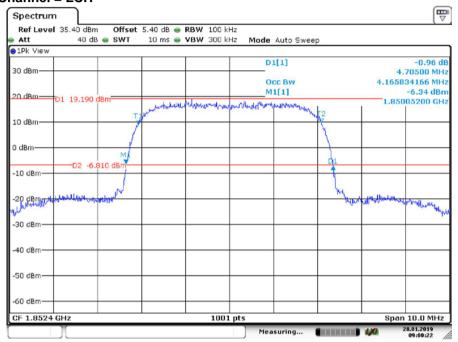
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4.1 For WCDMA

4.1.1 Test Band = WCDMA BAND II

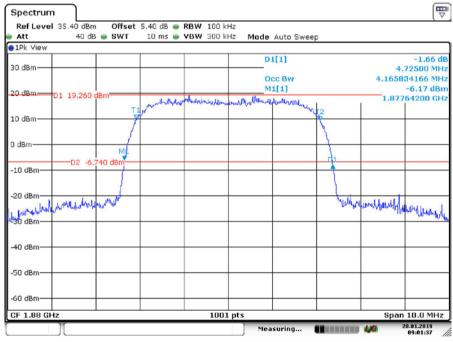
4.1.1.1 Test Mode = UMTS/TM1

4.1.1.1.1 Test Channel = LCH



Date: 28.JAN.2019 09:00:22

4.1.1.1.2 Test Channel = MCH



Date: 28.JAN.2019 09:01:37



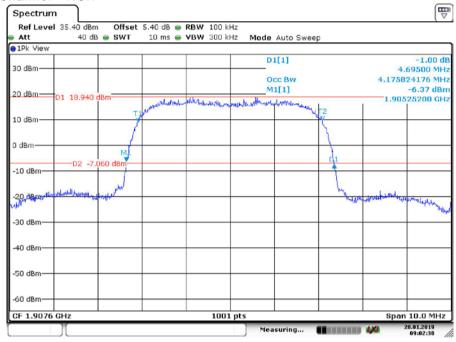
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4.1.1.1.3 Test Channel = HCH

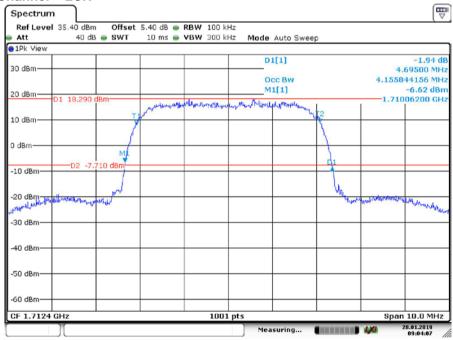


Date: 28 JAN 2019 09:02:39

4.1.2 Test Band = WCDMA BAND IV

4.1.2.1 Test Mode = UMTS/TM1

4.1.2.1.1 Test Channel = LCH



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4.1.2.1.2 Test Channel = MCH



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4.1.2.1.3 Test Channel = HCH



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4.1.3 Test Band = WCDMA BAND V

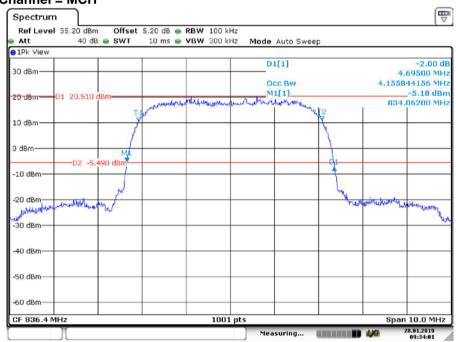
4.1.3.1 Test Mode = UMTS/TM1

4.1.3.1.1 Test Channel = LCH



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4.1.3.1.2 Test Channel = MCH



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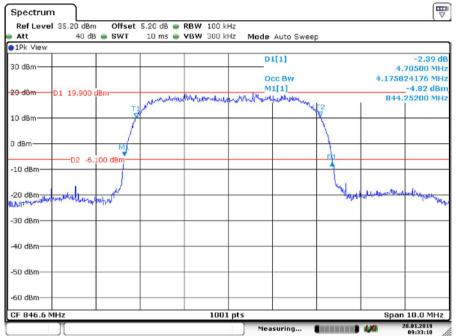
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4.1.3.1.3 Test Channel = HCH



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Band Edges Compliance

5.1 For WCDMA

5.1.1 Test Band = WCDMA BAND II

Test Mode = UMTS/TM1

5.1.1.1.1 Test Channel = LCH



Date: 28 JAN 2019 09:13:58

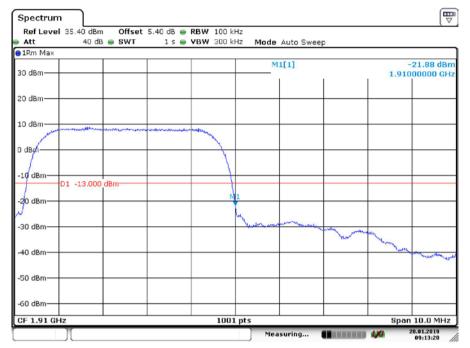




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5.1.1.1.2 Test Channel = HCH



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5.1.2 Test Band = WCDMA BAND IV

5.1.2.1 Test Mode = UMTS/TM1

5.1.2.1.1 Test Channel = LCH



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5.1.2.1.2 Test Channel = HCH



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5.1.3 Test Band = WCDMA BAND V

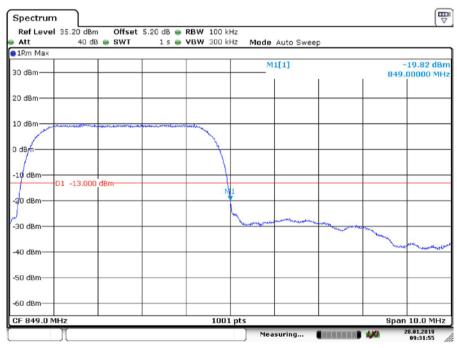
5.1.3.1 Test Mode = UMTS/TM1

5.1.3.1.1 Test Channel = LCH



Date: 28.JAN.2019 09:31:30

5.1.3.1.2 Test Channel = HCH



Date: 28.JAN.2019 09:31:55



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6 Spurious Emission at Antenna Terminal

REMARK: 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.

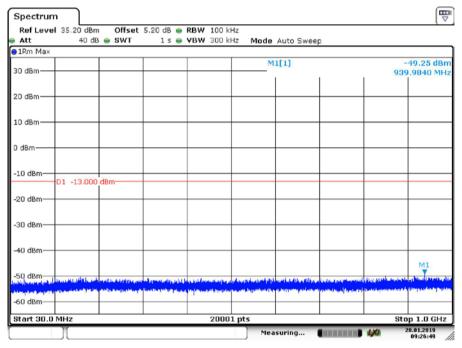
Part I - Test Plots

6.1 For WCDMA

6.1.1 Test Band = WCDMA BAND II

6.1.1.1 Test Mode = UMTS/TM1

6.1.1.1.1 Test Channel = LCH



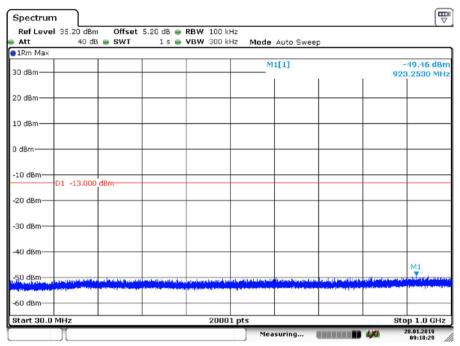
Date: 28.JAN.2019 09:26:49



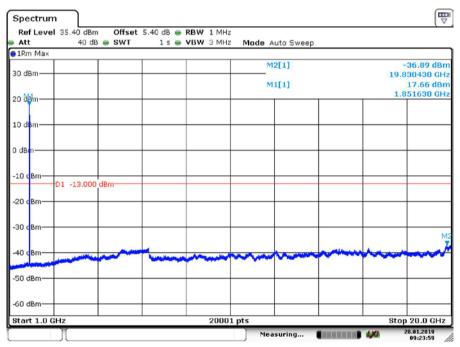


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Date: 28.JAN.2019 09:18:29



Date: 28.JAN.2019 09:23:59



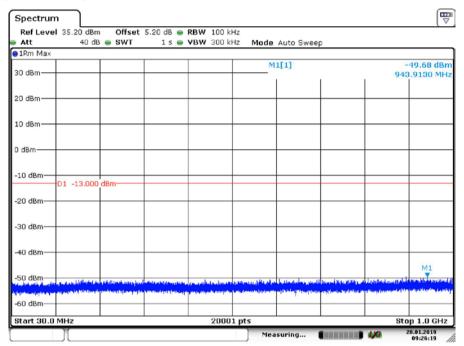
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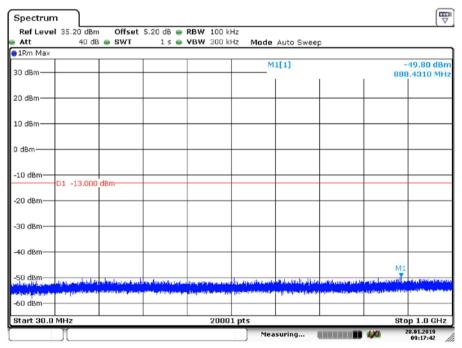
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6.1.1.1.2 Test Channel = MCH



Date: 28.JAN.2019 09:26:19



Date: 28.JAN.2019 09:17:42



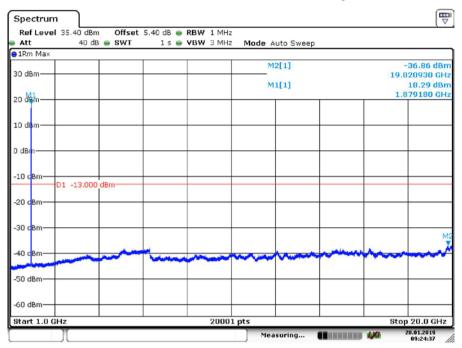
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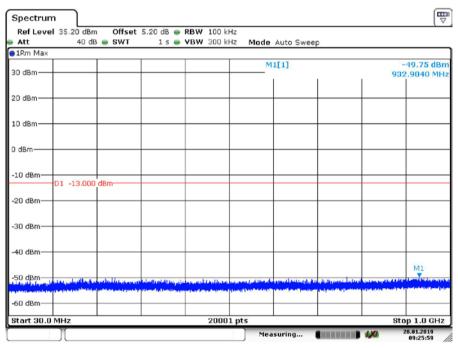
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Date: 28.JAN.2019 09:24:37

6.1.1.1.3 Test Channel = HCH



Date: 28.JAN.2019 09:25:59



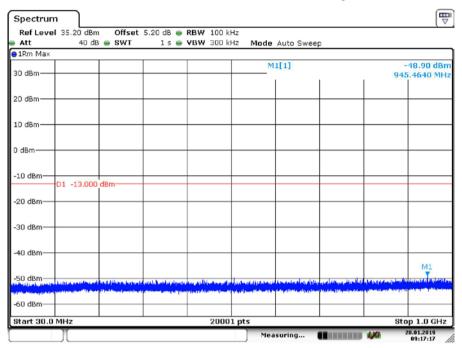
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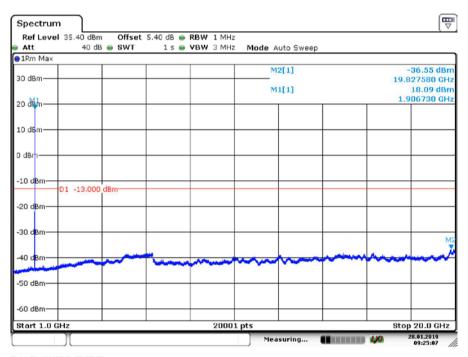


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Date: 28.JAN.2019 09:25:07



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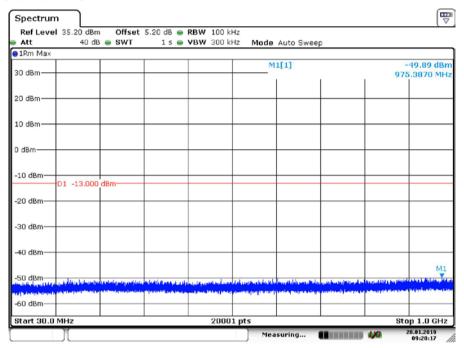
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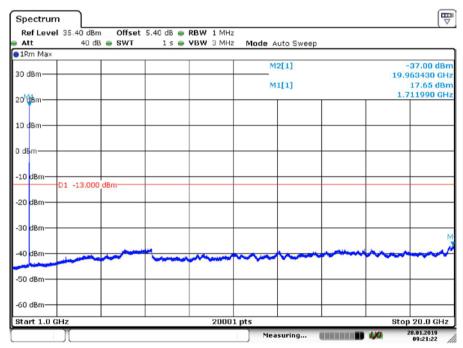
6.1.2 Test Band = WCDMA BAND IV

6.1.2.1 Test Mode = UMTS/TM1

6.1.2.1.1 Test Channel = LCH



Date: 28.JAN.2019 09:20:17



Date: 28.JAN.2019 09:21:22



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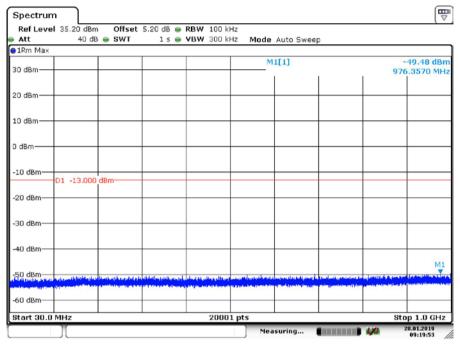
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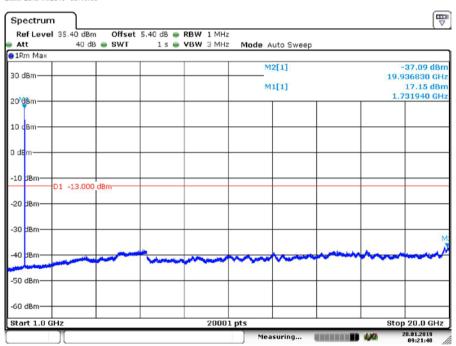
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6.1.2.1.2 Test Channel = MCH



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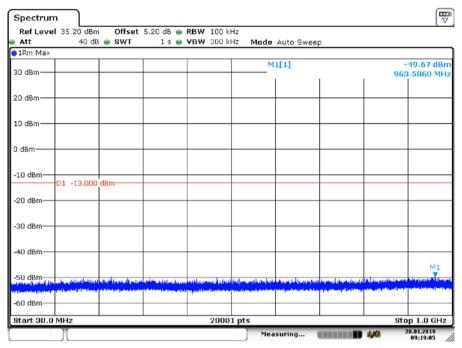
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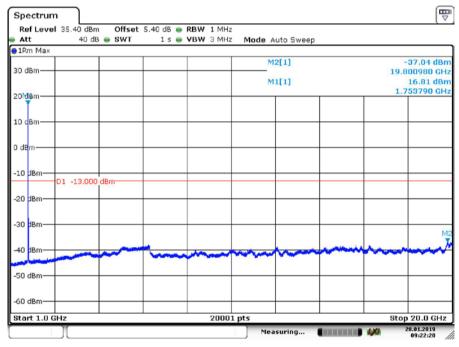
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6.1.2.1.3 Test Channel = HCH



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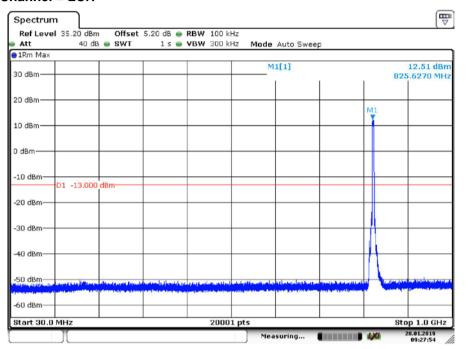
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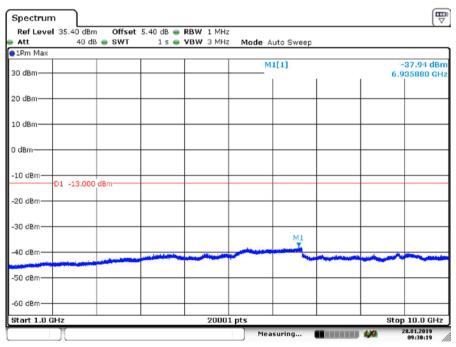
6.1.3 Test Band = WCDMA BAND V

6.1.3.1 Test Mode = UMTS/TM1

6.1.3.1.1 Test Channel = LCH



Date: 28.JAN.2019 09:27:55



Date: 28.JAN.2019 09:30:20



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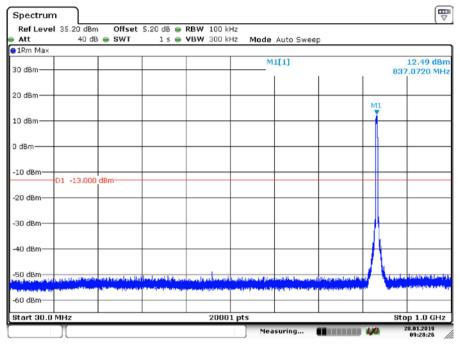
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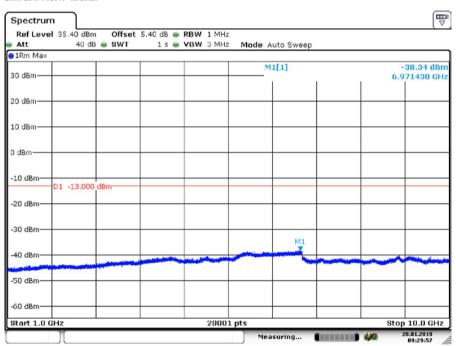
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6.1.3.1.2 Test Channel = MCH



Date: 28 JAN 2019 09:28:26



Date: 28.JAN.2019 09:29:58



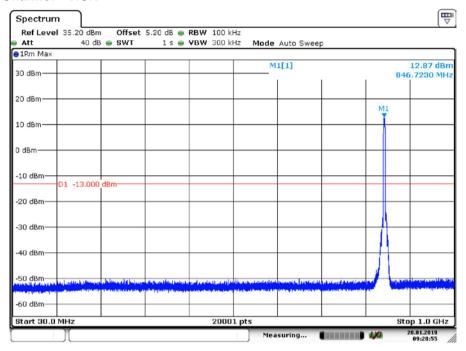
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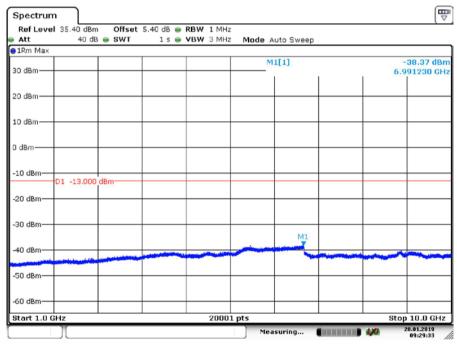
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6.1.3.1.3 Test Channel = HCH



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7 Field Strength of Spurious Radiation

Part I - Test Plots

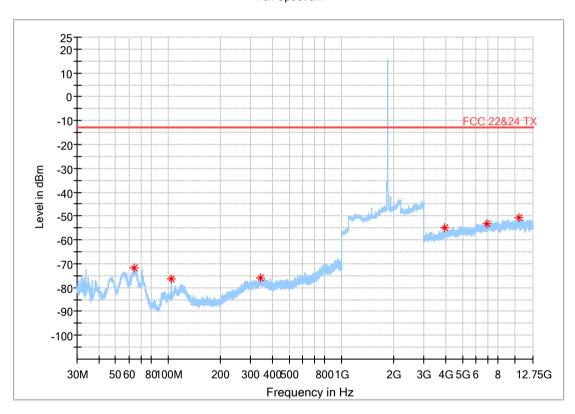
7.1 For WCDMA

7.1.1 Main Antenna

7.1.1.1 Test Band = WCDMA BAND II

7.1.1.1.1 LCH-Vertical

Full Spectrum



Critical_Freqs

| Frequency (MHz) | MaxPeak (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|--------------------|------------------|----------------|----------------|-----------------------|--------------------|-------------|-----|---------------|---------------|
| 64.150000 | -71.64 | -13.00 | 58.64 | | | 200.0 | V | 171.0 | -100.0 |
| 104.200000 | -76.25 | -13.00 | 63.25 | | | 200.0 | V | 102.0 | -106.8 |
| 343.250000 | -75.96 | -13.00 | 62.96 | | | 200.0 | V | 0.0 | -101.7 |
| 3976.625000 | -54.79 | -13.00 | 41.79 | | | 200.0 | V | 0.0 | -103.6 |
| 6952.000000 | -53.02 | -13.00 | 40.02 | | | 200.0 | V | 212.0 | -99.2 |
| 10654.075000 | -50.59 | -13.00 | 37.59 | | | 200.0 | V | 0.0 | -96.2 |

