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# Appendix B

E-UTRA Band 26(814-824)



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

#### Effective Radiated Power of Transmitter (ERP) for LTE BAND 26(814-824)

| Test<br>Band(LTE)   | Test<br>Mode | Test<br>Bandwidth | Test<br>channel | Test RB | Measured<br>(dBm) | ERP<br>(dBm) | limit<br>(dBm) | Verdict |
|---------------------|--------------|-------------------|-----------------|---------|-------------------|--------------|----------------|---------|
|                     |              |                   |                 | RB1#0   | 23.08             | 22.06        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#2   | 23.18             | 22.16        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#5   | 23.01             | 21.99        | 50.00          | PASS    |
|                     |              |                   | LCH             | RB3#0   | 23.25             | 22.23        | 50.00          | PASS    |
|                     |              |                   |                 | RB3#2   | 23.27             | 22.25        | 50.00          | PASS    |
|                     |              |                   |                 | RB3#3   | 23.22             | 22.20        | 50.00          | PASS    |
|                     |              |                   |                 | RB6#0   | 22.20             | 21.18        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#0   | 23.07             | 22.05        | 50.00          | PASS    |
|                     | LTE/TM1      | 1.4M              |                 | RB1#2   | 23.20             | 22.18        | 50.00          | PASS    |
|                     |              |                   | МСН             | RB1#5   | 23.05             | 22.03        | 50.00          | PASS    |
| BAND26<br>(814-824) |              |                   |                 | RB3#0   | 23.11             | 22.09        | 50.00          | PASS    |
|                     |              |                   |                 | RB3#2   | 23.15             | 22.13        | 50.00          | PASS    |
|                     |              |                   |                 | RB3#3   | 23.06             | 22.04        | 50.00          | PASS    |
|                     |              |                   |                 | RB6#0   | 22.18             | 21.16        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#0   | 23.09             | 22.07        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#2   | 23.16             | 22.14        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#5   | 23.06             | 22.04        | 50.00          | PASS    |
|                     |              |                   | НСН             | RB3#0   | 23.11             | 22.09        | 50.00          | PASS    |
|                     |              |                   |                 | RB3#2   | 23.13             | 22.11        | 50.00          | PASS    |
|                     |              |                   |                 | RB3#3   | 23.05             | 22.03        | 50.00          | PASS    |
|                     |              |                   |                 | RB6#0   | 22.25             | 21.23        | 50.00          | PASS    |



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|---------------------|--------------|-------------------|-----------------|---------|-------------------|--------------|----------------|---------|
| Test<br>Band(LTE)   | Test<br>Mode | Test<br>Bandwidth | Test<br>channel | Test RB | Measured<br>(dBm) | ERP<br>(dBm) | limit<br>(dBm) | Verdict |
|                     |              |                   |                 | RB1#0   | 22.47             | 21.45        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#2   | 22.43             | 21.41        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#5   | 22.47             | 21.45        | 50.00          | PASS    |
|                     |              |                   | LCH             | RB3#0   | 22.51             | 21.49        | 50.00          | PASS    |
|                     |              |                   |                 | RB3#2   | 22.52             | 21.50        | 50.00          | PASS    |
|                     |              |                   |                 | RB3#3   | 22.45             | 21.43        | 50.00          | PASS    |
|                     |              | 1.4M              |                 | RB6#0   | 21.14             | 20.12        | 50.00          | PASS    |
|                     | LTE/TM2      |                   |                 | RB1#0   | 22.59             | 21.57        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#2   | 22.43             | 21.41        | 50.00          | PASS    |
|                     |              |                   | МСН             | RB1#5   | 22.44             | 21.42        | 50.00          | PASS    |
| BAND26<br>(814-824) |              |                   |                 | RB3#0   | 22.36             | 21.34        | 50.00          | PASS    |
|                     |              |                   |                 | RB3#2   | 22.43             | 21.41        | 50.00          | PASS    |
|                     |              |                   |                 | RB3#3   | 22.40             | 21.38        | 50.00          | PASS    |
|                     |              |                   |                 | RB6#0   | 21.19             | 20.17        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#0   | 22.49             | 21.47        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#2   | 22.40             | 21.38        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#5   | 22.52             | 21.50        | 50.00          | PASS    |
|                     |              |                   | НСН             | RB3#0   | 22.37             | 21.35        | 50.00          | PASS    |
|                     |              |                   |                 | RB3#2   | 22.43             | 21.41        | 50.00          | PASS    |
|                     |              |                   |                 | RB3#3   | 22.45             | 21.43        | 50.00          | PASS    |
|                     |              |                   |                 | RB6#0   | 21.24             | 20.22        | 50.00          | PASS    |



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|---------------------|--------------|-------------------|-----------------|---------|-------------------|--------------|----------------|---------|
| Test<br>Band(LTE)   | Test<br>Mode | Test<br>Bandwidth | Test<br>channel | Test RB | Measured<br>(dBm) | ERP<br>(dBm) | limit<br>(dBm) | Verdict |
|                     |              |                   |                 | RB1#0   | 23.30             | 22.28        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#7   | 23.38             | 22.36        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#14  | 23.32             | 22.30        | 50.00          | PASS    |
|                     |              |                   | LCH             | RB8#0   | 22.28             | 21.26        | 50.00          | PASS    |
|                     |              |                   |                 | RB8#4   | 22.24             | 21.22        | 50.00          | PASS    |
|                     |              |                   |                 | RB8#7   | 22.29             | 21.27        | 50.00          | PASS    |
|                     |              |                   |                 | RB15#0  | 22.37             | 21.35        | 50.00          | PASS    |
|                     | LTE/TM1      | ЗМ                |                 | RB1#0   | 23.32             | 22.30        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#7   | 23.30             | 22.28        | 50.00          | PASS    |
|                     |              |                   | МСН             | RB1#14  | 23.22             | 22.20        | 50.00          | PASS    |
| BAND26<br>(814-824) |              |                   |                 | RB8#0   | 22.36             | 21.34        | 50.00          | PASS    |
|                     |              |                   |                 | RB8#4   | 22.24             | 21.22        | 50.00          | PASS    |
|                     |              |                   |                 | RB8#7   | 22.23             | 21.21        | 50.00          | PASS    |
|                     |              |                   |                 | RB15#0  | 22.28             | 21.26        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#0   | 23.28             | 22.26        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#7   | 23.30             | 22.28        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#14  | 23.18             | 22.16        | 50.00          | PASS    |
|                     |              |                   | НСН             | RB8#0   | 22.34             | 21.32        | 50.00          | PASS    |
|                     |              |                   |                 | RB8#4   | 22.27             | 21.25        | 50.00          | PASS    |
|                     |              |                   |                 | RB8#7   | 22.24             | 21.22        | 50.00          | PASS    |
|                     |              |                   |                 | RB15#0  | 22.27             | 21.25        | 50.00          | PASS    |



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|---------------------|--------------|-------------------|-----------------|---------|-------------------|--------------|----------------|---------|
| Test<br>Band(LTE)   | Test<br>Mode | Test<br>Bandwidth | Test<br>channel | Test RB | Measured<br>(dBm) | ERP<br>(dBm) | limit<br>(dBm) | Verdict |
|                     |              |                   |                 | RB1#0   | 22.56             | 21.54        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#7   | 22.52             | 21.50        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#14  | 22.64             | 21.62        | 50.00          | PASS    |
|                     |              |                   | LCH             | RB8#0   | 21.49             | 20.47        | 50.00          | PASS    |
|                     |              |                   |                 | RB8#4   | 21.44             | 20.42        | 50.00          | PASS    |
|                     |              |                   |                 | RB8#7   | 21.53             | 20.51        | 50.00          | PASS    |
|                     |              | ЗМ                |                 | RB15#0  | 21.43             | 20.41        | 50.00          | PASS    |
|                     | LTE/TM2      |                   |                 | RB1#0   | 22.58             | 21.56        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#7   | 22.51             | 21.49        | 50.00          | PASS    |
|                     |              |                   | МСН             | RB1#14  | 22.53             | 21.51        | 50.00          | PASS    |
| BAND26<br>(814-824) |              |                   |                 | RB8#0   | 21.46             | 20.44        | 50.00          | PASS    |
|                     |              |                   |                 | RB8#4   | 21.43             | 20.41        | 50.00          | PASS    |
|                     |              |                   |                 | RB8#7   | 21.45             | 20.43        | 50.00          | PASS    |
|                     |              |                   |                 | RB15#0  | 21.37             | 20.35        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#0   | 22.64             | 21.62        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#7   | 22.52             | 21.50        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#14  | 22.53             | 21.51        | 50.00          | PASS    |
|                     |              |                   | НСН             | RB8#0   | 21.46             | 20.44        | 50.00          | PASS    |
|                     |              |                   |                 | RB8#4   | 21.41             | 20.39        | 50.00          | PASS    |
|                     |              |                   |                 | RB8#7   | 21.40             | 20.38        | 50.00          | PASS    |
|                     |              |                   |                 | RB15#0  | 21.33             | 20.31        | 50.00          | PASS    |



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|---------------------|--------------|-------------------|-----------------|---------|-------------------|--------------|----------------|---------|
| Test<br>Band(LTE)   | Test<br>Mode | Test<br>Bandwidth | Test<br>channel | Test RB | Measured<br>(dBm) | ERP<br>(dBm) | limit<br>(dBm) | Verdict |
|                     |              |                   |                 | RB1#0   | 23.23             | 22.21        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#13  | 23.06             | 22.04        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#24  | 23.17             | 22.15        | 50.00          | PASS    |
|                     |              |                   | LCH             | RB12#0  | 22.28             | 21.26        | 50.00          | PASS    |
|                     |              |                   |                 | RB12#6  | 22.19             | 21.17        | 50.00          | PASS    |
|                     | LTE/TM1      |                   |                 | RB12#13 | 22.19             | 21.17        | 50.00          | PASS    |
|                     |              |                   |                 | RB25#0  | 22.23             | 21.21        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#0   | 23.03             | 22.01        | 50.00          | PASS    |
|                     |              | 5M                |                 | RB1#13  | 22.99             | 21.97        | 50.00          | PASS    |
|                     |              |                   | МСН             | RB1#24  | 22.97             | 21.95        | 50.00          | PASS    |
| BAND26<br>(814-824) |              |                   |                 | RB12#0  | 22.33             | 21.31        | 50.00          | PASS    |
|                     |              |                   |                 | RB12#6  | 22.18             | 21.16        | 50.00          | PASS    |
|                     |              |                   |                 | RB12#13 | 22.15             | 21.13        | 50.00          | PASS    |
|                     |              |                   |                 | RB25#0  | 22.23             | 21.21        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#0   | 23.05             | 22.03        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#13  | 23.01             | 21.99        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#24  | 22.97             | 21.95        | 50.00          | PASS    |
|                     |              |                   | HCH             | RB12#0  | 22.30             | 21.28        | 50.00          | PASS    |
|                     |              |                   |                 | RB12#6  | 22.24             | 21.22        | 50.00          | PASS    |
|                     |              |                   |                 | RB12#13 | 22.22             | 21.20        | 50.00          | PASS    |
|                     |              |                   |                 | RB25#0  | 22.20             | 21.18        | 50.00          | PASS    |



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|---------------------|--------------|-------------------|-----------------|---------|-------------------|--------------|----------------|---------|
| Test<br>Band(LTE)   | Test<br>Mode | Test<br>Bandwidth | Test<br>channel | Test RB | Measured<br>(dBm) | ERP<br>(dBm) | limit<br>(dBm) | Verdict |
|                     |              |                   |                 | RB1#0   | 22.68             | 21.66        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#13  | 22.01             | 20.99        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#24  | 22.42             | 21.40        | 50.00          | PASS    |
|                     |              |                   | LCH             | RB12#0  | 21.42             | 20.40        | 50.00          | PASS    |
|                     |              |                   |                 | RB12#6  | 21.17             | 20.15        | 50.00          | PASS    |
|                     |              |                   |                 | RB12#13 | 21.18             | 20.16        | 50.00          | PASS    |
|                     | LTE/TM2      |                   |                 | RB25#0  | 21.20             | 20.18        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#0   | 22.56             | 21.54        | 50.00          | PASS    |
|                     |              | 5M                |                 | RB1#13  | 22.07             | 21.05        | 50.00          | PASS    |
|                     |              |                   | МСН             | RB1#24  | 22.41             | 21.39        | 50.00          | PASS    |
| BAND26<br>(814-824) |              |                   |                 | RB12#0  | 21.38             | 20.36        | 50.00          | PASS    |
|                     |              |                   |                 | RB12#6  | 21.27             | 20.25        | 50.00          | PASS    |
|                     |              |                   |                 | RB12#13 | 21.26             | 20.24        | 50.00          | PASS    |
|                     |              |                   |                 | RB25#0  | 21.30             | 20.28        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#0   | 22.66             | 21.64        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#13  | 22.14             | 21.12        | 50.00          | PASS    |
|                     |              |                   |                 | RB1#24  | 22.42             | 21.40        | 50.00          | PASS    |
|                     |              |                   | НСН             | RB12#0  | 21.39             | 20.37        | 50.00          | PASS    |
|                     |              |                   |                 | RB12#6  | 21.27             | 20.25        | 50.00          | PASS    |
|                     |              |                   |                 | RB12#13 | 21.26             | 20.24        | 50.00          | PASS    |
|                     |              |                   |                 | RB25#0  | 21.23             | 20.21        | 50.00          | PASS    |



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|-------------------|--------------|-------------------|-----------------|---------|-------------------|--------------|----------------|-------------|
| Test<br>Band(LTE) | Test<br>Mode | Test<br>Bandwidth | Test<br>channel | Test RB | Measured<br>(dBm) | ERP<br>(dBm) | limit<br>(dBm) | Verdic<br>t |
|                   |              |                   |                 | RB1#0   | 23.23             | 22.21        | 50.00          | PASS        |
|                   |              |                   |                 | RB1#25  | 23.21             | 22.19        | 50.00          | PASS        |
|                   |              |                   |                 | RB1#49  | 23.32             | 22.30        | 50.00          | PASS        |
|                   | LTE/TM1      | 10M               | MCH             | RB25#0  | 22.22             | 21.20        | 50.00          | PASS        |
|                   |              |                   |                 | RB25#13 | 22.19             | 21.17        | 50.00          | PASS        |
|                   |              |                   |                 | RB25#25 | 22.16             | 21.14        | 50.00          | PASS        |
| BAND26            |              |                   |                 | RB50#0  | 22.22             | 21.20        | 50.00          | PASS        |
| (814-824)         |              |                   |                 | RB1#0   | 22.54             | 21.52        | 50.00          | PASS        |
|                   |              |                   |                 | RB1#25  | 22.24             | 21.22        | 50.00          | PASS        |
|                   |              |                   |                 | RB1#49  | 22.17             | 21.15        | 50.00          | PASS        |
|                   | LTE/TM2      | 10M               | MCH             | RB25#0  | 21.30             | 20.28        | 50.00          | PASS        |
|                   |              |                   |                 | RB25#13 | 21.23             | 20.21        | 50.00          | PASS        |
|                   |              |                   |                 | RB25#25 | 21.24             | 20.22        | 50.00          | PASS        |
|                   |              |                   |                 | RB50#0  | 21.23             | 20.21        | 50.00          | PASS        |

Note:

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

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

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW >  $3 \times RBW$ .

Detector: RMS



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### 2 Peak-to-Average Ratio

#### Part I - Test Results

| Test Band        | Test Mode | Test Channel | Measured[dB] | Limit [dB] | Verdict |
|------------------|-----------|--------------|--------------|------------|---------|
|                  |           | LCH          | \            | 13         | PASS    |
|                  | TM1/10M   | MCH          | 4.75         | 13         | PASS    |
| Band 26/914 924) |           | НСН          | \            | 13         | PASS    |
| Band 26(814-824) |           | LCH          | ١            | 13         | PASS    |
|                  | TM2/10M   | MCH          | 5.45         | 13         | PASS    |
|                  |           | НСН          | ١            | 13         | PASS    |



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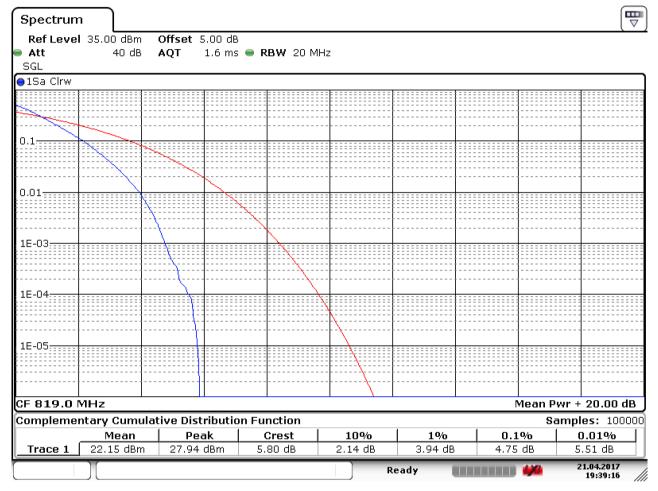
Part II - Test Plots

### 2.1 For LTE

### 2.1.1 Test Band = LTE band26(814-824)

#### 2.1.1.1 Test Mode = LTE/TM1.Bandwidth=10MHz

2.1.1.1.1 Test Channel = MCH

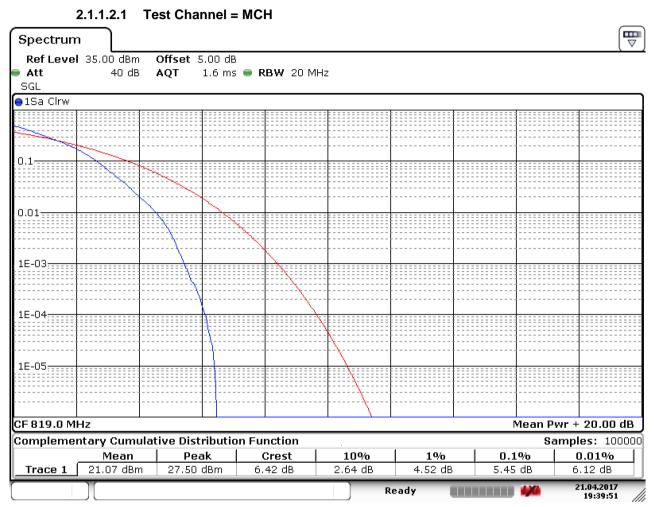


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#### 2.1.1.2 Test Mode = LTE/TM2.Bandwidth=10MHz



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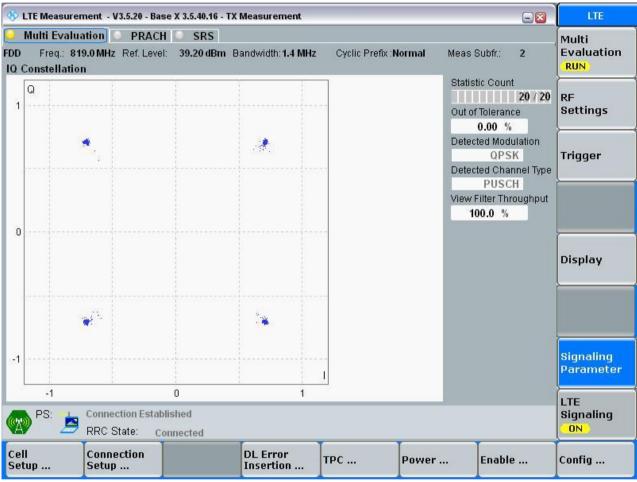
### **3 Modulation Characteristics**

### 3.1 For LTE

#### 3.1.1 Test Band = LTE band26(814-824)

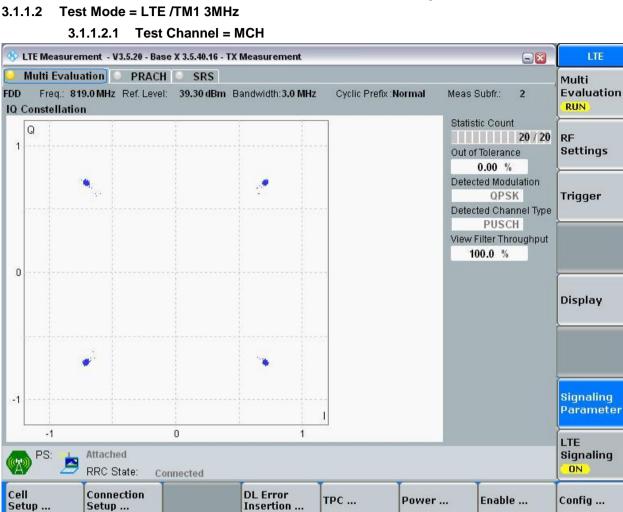
#### 3.1.1.1 Test Mode = LTE /TM1 1.4MHz

#### 3.1.1.1.1 Test Channel = MCH



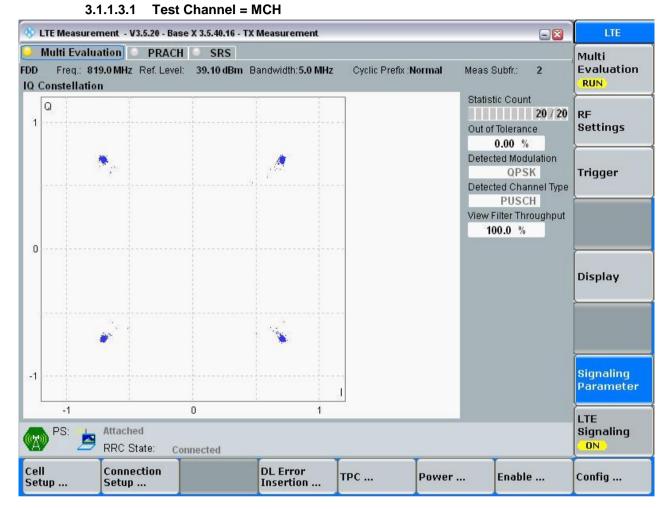


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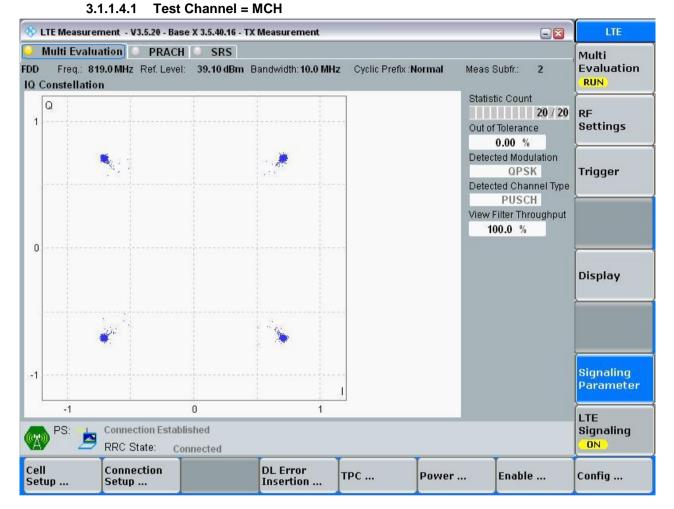
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### 3.1.1.3 Test Mode = LTE /TM1 5MHz



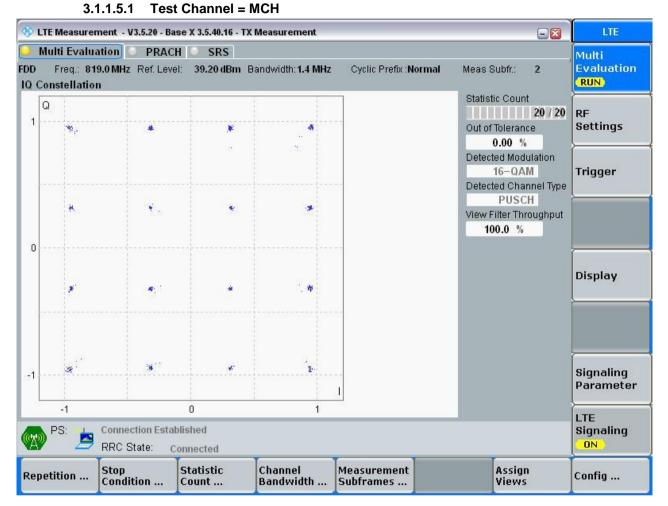
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### 3.1.1.4 Test Mode = LTE /TM1 10MHz



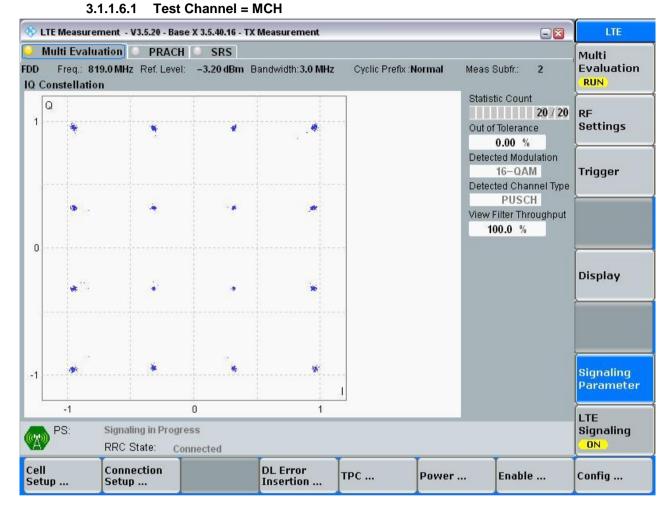
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### 3.1.1.5 Test Mode = LTE /TM2 1.4MHz



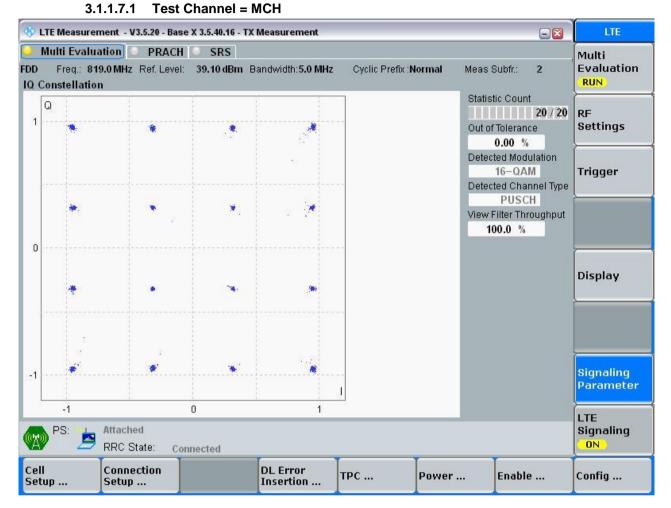
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### 3.1.1.6 Test Mode = LTE /TM2 3MHz



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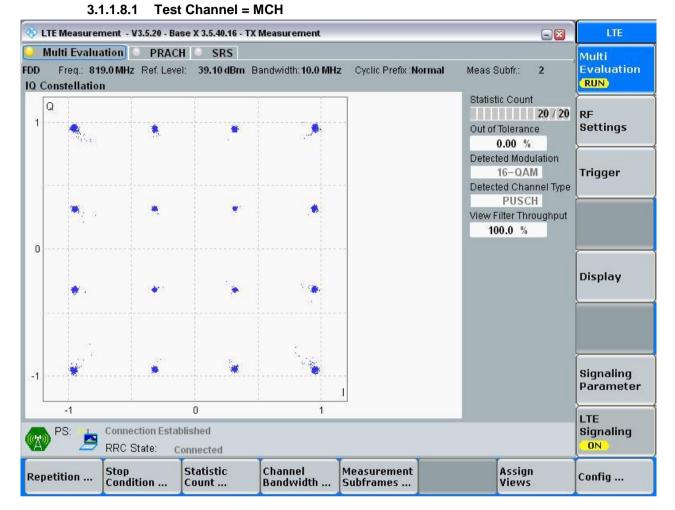


### 3.1.1.7 Test Mode = LTE /TM2 5MHz

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### 3.1.1.8 Test Mode = LTE /TM2 10MHz



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### 4 Bandwidth

Part I - Test Results

| Test Band | Test Mode  | Test<br>Channel | Occupied Bandwidth<br>[MHz] | Emission<br>Bandwidth [MHz] | Verdict |
|-----------|------------|-----------------|-----------------------------|-----------------------------|---------|
|           |            | LCH             | 1.10                        | 1.36                        | PASS    |
|           | TM1/1.4MHz | MCH             | 1.11                        | 1.32                        | PASS    |
|           |            | HCH             | 1.10                        | 1.33                        | PASS    |
|           |            | LCH             | 1.10                        | 1.31                        | PASS    |
|           | TM2/1.4MHz | MCH             | 1.10                        | 1.33                        | PASS    |
|           |            | HCH             | 1.10                        | 1.33                        | PASS    |
|           |            | LCH             | 2.69                        | 2.97                        | PASS    |
|           | TM1/ 3MHz  | MCH             | 2.69                        | 2.96                        | PASS    |
|           |            | HCH             | 2.69                        | 2.93                        | PASS    |
|           |            | LCH             | 2.69                        | 2.97                        | PASS    |
|           | TM2/3MHz   | MCH             | 2.69                        | 2.94                        | PASS    |
| Band26    |            | HCH             | 2.69                        | 2.93                        | PASS    |
| (814-824) |            | LCH             | 4.50                        | 4.98                        | PASS    |
| (0        | TM1/ 5MHz  | MCH             | 4.50                        | 4.98                        | PASS    |
|           |            | HCH             | 4.48                        | 4.94                        | PASS    |
|           |            | LCH             | 4.50                        | 4.95                        | PASS    |
|           | TM2/ 5MHz  | MCH             | 4.49                        | 4.95                        | PASS    |
|           |            | HCH             | 4.49                        | 4.95                        | PASS    |
|           |            | LCH             | ١                           | ١                           | PASS    |
|           | TM1/10MHz  | MCH             | 8.99                        | 9.89                        | PASS    |
|           |            | HCH             | /                           | ١                           | PASS    |
|           |            | LCH             | /                           | ١                           | PASS    |
|           | TM2/ 10MHz | MCH             | 8.97                        | 9.69                        | PASS    |
|           |            | HCH             | ١                           | ١                           | PASS    |



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#### Part II -Test Plots

### 4.1 For LTE

#### 4.1.1 Test Band = LTE band26(814-824)

#### 4.1.1.1 Test Mode = LTE/TM1 1.4MHz

4.1.1.1.1 Test Channel = LCH

| Spectrun        | n           |           |                |                   |         |          |    |           |                        |
|-----------------|-------------|-----------|----------------|-------------------|---------|----------|----|-----------|------------------------|
|                 | l 35.00 dBm |           | 5.00 dB 👄      |                   |         |          |    |           |                        |
| Att<br>1Pk View | 40 dB       | SWT 😑 SWT | 10 ms 😑        | <b>VBW</b> 100 ki | Hz Mode | Auto FFT |    |           |                        |
| OIPK VIEW       |             |           |                |                   | D       | 1[1]     |    |           | -0.20 dB               |
| 30 dBm——        |             |           |                |                   | U       | 1[1]     |    | 1.        | 36360 MHz              |
|                 |             |           |                |                   | Occ Bw  |          |    | 1.1028    | 97103 MHz              |
| 20 dBm          |             |           |                |                   | M       | 1[1]     |    |           | -8.53 dBm              |
|                 | D1 17.350   | dBm       | TIMM           | ~~~~~~            | m       |          | 1  | 814.<br>I | 00170 MHz              |
| 10 dBm          |             |           | \ <del>7</del> |                   |         | V<br>V   |    |           |                        |
|                 |             |           |                |                   |         | \        |    |           |                        |
| 0 dBm           |             |           | /              |                   |         | (        |    |           |                        |
| 0 0.0111        |             | м1 /      |                |                   |         |          | Ν  |           |                        |
| -10 dBm—        | D2 -8,      | 650 dBm   |                |                   |         |          | Q1 |           |                        |
| 10 0.011        |             | $\sim$    |                |                   |         |          | m  | h         |                        |
|                 | $\sim$      |           |                |                   |         |          |    | ~~~       | $\sim\sim\sim$         |
| -20 4011        |             |           |                |                   |         |          |    |           |                        |
| 00 d0           |             |           |                |                   |         |          |    |           |                        |
| -30 dBm—        |             |           |                |                   |         |          |    |           |                        |
| 10 10           |             |           |                |                   |         |          |    |           |                        |
| -40 dBm—        |             |           |                |                   |         |          |    |           |                        |
|                 |             |           |                |                   |         |          |    |           |                        |
| -50 dBm—        |             |           |                |                   |         |          |    |           |                        |
|                 |             |           |                |                   |         |          |    |           |                        |
| -60 dBm—        |             |           |                |                   |         |          |    |           |                        |
| CF 814.7 M      | ⊥<br>MHz    | 1         | 1              | 1001              | pts     | 1        | 1  | Spa       | n 3.0 MHz              |
|                 |             |           |                |                   | Mea     | isuring  |    | 4/4       | 14.04.2017<br>17:33:50 |

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|            | 4.1.1.1.2    | Test Cha   | nnel = MC | н                 |                    |             |                 |         |                |
|------------|--------------|------------|-----------|-------------------|--------------------|-------------|-----------------|---------|----------------|
| Spectru    | m            |            |           |                   |                    |             |                 |         |                |
| Ref Lev    | el 35.00 dBr | n Offset   | 5.00 dB 👄 | <b>RBW</b> 30 kH  | łz                 |             |                 |         |                |
| 🔵 Att      | 40 di        | B 👄 SWT    | 10 ms 👄   | <b>VBW</b> 100 kH | lz Mode            | Auto FFT    |                 |         |                |
| 😑 1Pk View | /            |            |           |                   |                    |             |                 |         |                |
|            |              |            |           |                   | D                  | 1[1]        |                 |         | -0.33 dB       |
| 30 dBm—    |              |            |           |                   |                    |             |                 | 1.      | 31870 MHz      |
|            |              |            |           |                   |                    | cc Bw       |                 | 1.1058  | 94106 MHz      |
| 20 dBm—    |              |            |           |                   | M                  | 1[1]        |                 |         | -8.03 dBm      |
|            | D1 17.900    | dBm        | TIM       | $\sim$            | $\sim\sim\sim\sim$ | $m_{\pi 2}$ | 1               |         | 33770 MHz<br>I |
| 10 dBm—    |              |            | Ý         |                   |                    | ₹<br>V      |                 |         |                |
|            |              |            | 17        |                   |                    | 1           |                 |         |                |
|            |              |            |           |                   |                    |             |                 |         |                |
| 0 dBm      |              |            | 1         |                   |                    | ,           |                 |         |                |
|            |              | M1         | 1         |                   |                    |             | 01              |         |                |
| -10 dBm—   | D2 -8        | .100 dBm 🗡 |           |                   |                    |             | T T             |         |                |
|            |              | land       |           |                   |                    |             | $ $ $\sim \sim$ | ~       |                |
| -20 dBm-   | to and       | Y~~        |           |                   |                    |             | ~ • • •         | 1 how   | m              |
| -20 ubiii— |              |            |           |                   |                    |             |                 |         |                |
|            |              |            |           |                   |                    |             |                 |         |                |
| -30 dBm—   |              |            |           |                   |                    |             |                 |         |                |
|            |              |            |           |                   |                    |             |                 |         |                |
| -40 dBm—   |              |            |           |                   |                    |             |                 |         |                |
|            |              |            |           |                   |                    |             |                 |         |                |
| -50 dBm—   |              |            |           |                   |                    |             |                 |         |                |
| -50 übili— |              |            |           |                   |                    |             |                 |         |                |
|            |              |            |           |                   |                    |             |                 |         |                |
| -60 dBm—   |              |            |           |                   |                    |             |                 |         |                |
| CF 819.0   | <br>MHz      |            |           | 1001              | nts                |             |                 | <br>Şna | n 3.0 MHz      |
|            | 1 12         |            |           | 1001              |                    |             |                 | •       |                |
| L          |              |            |           |                   | Mea                | suring      |                 |         | 17:34:53       |

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|              | 4.1.1.1.3     | Test Cha       | nnel = HC | Н                |         |          |            |         |                        |
|--------------|---------------|----------------|-----------|------------------|---------|----------|------------|---------|------------------------|
| Spectru      | n             |                |           |                  |         |          |            |         |                        |
| Ref Leve     | el 35.00 dBn  | n Offset       | 5.00 dB 🔵 | <b>RBW</b> 30 ki | Ηz      |          |            |         |                        |
| 🔵 Att        | 40 dE         | B 👄 SWT        | 10 ms 👄   | <b>VBW</b> 100 k | Hz Mode | Auto FFT |            |         |                        |
| 😑 1Pk View   |               |                |           |                  |         |          |            |         |                        |
|              |               |                |           |                  | D       | 1[1]     |            |         | -0.34 dB               |
| 30 dBm—      |               |                |           |                  |         |          |            |         | 33370 MHz              |
|              |               |                |           |                  |         | CC BW    |            | 1.1028  | 97103 MHz              |
| 20 dBm       | -D1 17.380    |                |           |                  | M       | 1[1]     |            | 000     | -8.38 dBm<br>64670 MHz |
|              | TUI 17,380    | цыпі<br>І      | Time      | mm               | ~~~~~   | ma.      |            | 022.    |                        |
| 10 dBm       |               |                | 1         |                  |         | 12       |            |         |                        |
|              |               |                |           |                  |         |          |            |         |                        |
| 0 dBm        |               |                |           |                  |         | \        |            |         |                        |
| o abiii      |               |                | l i       |                  |         |          | N          |         |                        |
|              | o             | M1/<br>620 dBm |           |                  |         |          | <b>Q</b> 1 |         |                        |
| -10 dBm—     | 02 -0.        |                |           |                  |         |          | 1          | a .     |                        |
| 0            |               |                |           |                  |         |          | $\sim$     | M       |                        |
| ,∠2\ordBm/_, | <b>-</b> ~~~~ |                |           |                  |         |          |            |         | m                      |
|              |               |                |           |                  |         |          |            |         |                        |
| -30 dBm—     |               |                |           |                  |         |          |            |         |                        |
|              |               |                |           |                  |         |          |            |         |                        |
| -40 dBm—     |               |                |           |                  |         |          |            |         |                        |
| -+0 ubiii    |               |                |           |                  |         |          |            |         |                        |
|              |               |                |           |                  |         |          |            |         |                        |
| -50 dBm—     |               |                |           |                  |         |          |            |         |                        |
|              |               |                |           |                  |         |          |            |         |                        |
| -60 dBm—     |               |                |           |                  |         |          |            |         |                        |
| CF 823.3     | <br>MHz       |                |           | 1001             | nts     |          |            | <br>Sna | n 3.0 MHz              |
|              |               |                |           | 1001             |         |          |            |         | 11 3.0 11112           |
| L            |               |                |           |                  | Mea     | suring   |            |         | 17:37:34               |

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₽

Span 3.0 MHz

14.04.2017

17:32:50

#### 4.1.1.2.1 Test Channel = LCH Spectrum Ref Level 35.00 dBm Offset 5.00 dB 👄 RBW 30 kHz 40 dB 🖷 SWT 10 ms 👄 **VBW** 100 kHz Att Mode Auto FFT ●1Pk View D1[1] -0.42 dB 30 dBm-1.31270 MHz Occ Bw 1.099900100 MHz -9.48 dBm M1[1] 20 dBm-814.04370 MHz D1 16.350 dBm-Τ1 10 dBm-0 dBm-М‡ =D2 -9.650 dBm= -10 dBm--20 dBm--30 dBm--40 dBm· -50 dBm--60 dBm-

1001 pts

Measuring...

#### 4.1.1.2 Test Mode = LTE/TM2 1.4MHz

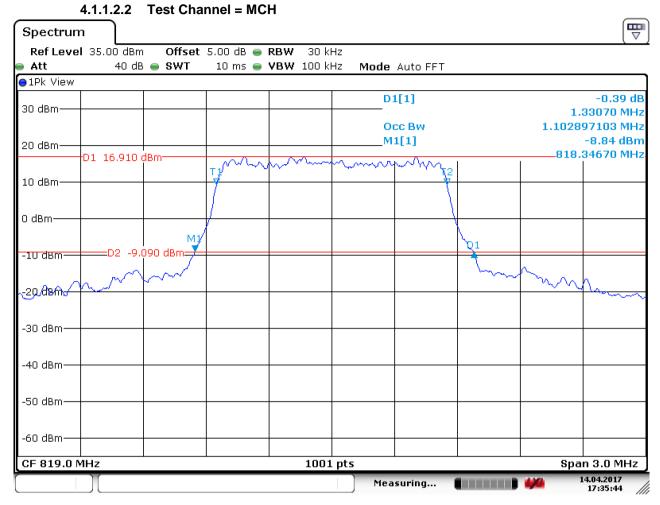
Date: 14.APR.2017 17:32:51

CF 814.7 MHz

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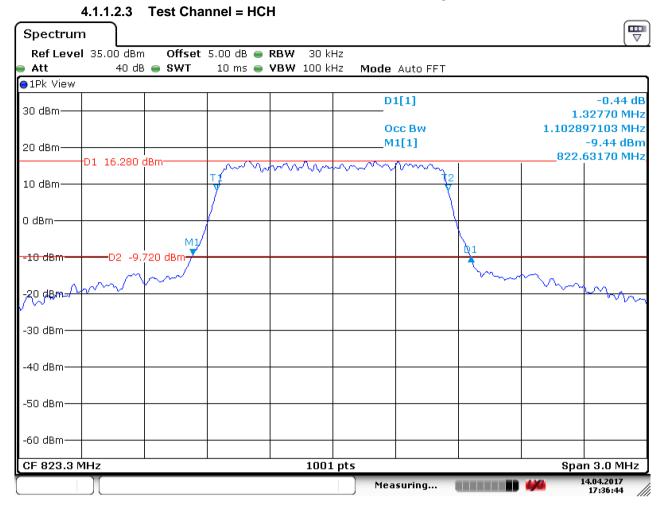
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|             | 4.1.1.3.1      | Test Cha        | nnel = LCH        |                  |          |            |       |                | _                      |
|-------------|----------------|-----------------|-------------------|------------------|----------|------------|-------|----------------|------------------------|
| Spectru     | im 🗋           |                 |                   |                  |          |            |       |                |                        |
| Ref Lev     | el 35.00 dBn   | n Offset        | 5.00 dB 🥃 RB      | <b>W</b> 30 kHz  |          |            |       |                |                        |
| 🔵 Att       | 40 dB          | B 🔵 SWT         | 10 ms 👄 <b>VB</b> | <b>W</b> 100 kHz | Mode     | Auto Sweep | כ     |                |                        |
| 😑 1Pk View  | V              |                 |                   |                  |          |            |       |                |                        |
|             |                |                 |                   |                  | D1       | l[1]       |       |                | -1.35 dB               |
| 30 dBm—     |                |                 |                   |                  |          |            |       |                | 97300 MHz              |
|             |                |                 |                   |                  |          | cc Bw      |       |                | 08691 MHz              |
| 20 dBm—     |                |                 |                   |                  | M        | 1[1]       |       |                | 11.53 dBm<br>00750 MHz |
|             | D1 13.820      | dBm <del></del> |                   |                  |          |            | T2    | 014.           |                        |
| 10 dBm—     |                |                 | www.w             | www.w            | monthly  | mhrwhh     | /\v7  |                |                        |
|             |                |                 |                   |                  |          |            |       |                |                        |
| 0 dBm       |                |                 |                   |                  |          |            |       |                |                        |
| o abiii     |                |                 |                   |                  |          |            |       |                |                        |
|             |                | Mź              |                   |                  |          |            |       |                |                        |
| -10 dBm—    | D2 -12         | 2.180 dBm       |                   |                  |          |            | - ģī  |                |                        |
|             |                |                 |                   |                  |          |            | ₹     | Λ              |                        |
| ᠕ᡒᢆᢩᠿᢦᡌᡛ᠓ᡪᢇ | and the second | 177° Y          |                   |                  |          |            | "Unga | wallowed allow | n man man              |
|             |                |                 |                   |                  |          |            |       |                |                        |
| -30 dBm—    |                |                 |                   |                  |          |            |       |                |                        |
|             |                |                 |                   |                  |          |            |       |                |                        |
| -40 dBm—    |                |                 |                   |                  |          |            |       |                |                        |
|             |                |                 |                   |                  |          |            |       |                |                        |
|             |                |                 |                   |                  |          |            |       |                |                        |
| -50 dBm—    |                |                 |                   |                  |          |            |       |                |                        |
|             |                |                 |                   |                  |          |            |       |                |                        |
| -60 dBm—    |                |                 |                   |                  |          |            |       |                |                        |
| CF 815.5    | <br>. MHz      |                 |                   | 1001 p           | ts       |            |       | Sna            | n 6.0 MHz              |
|             |                |                 |                   | 1001 h           | <u> </u> |            |       | -              | 4.04.2017              |
| L           |                |                 |                   |                  | Mea      | suring     |       | 44             | 17:31:26               |

4.1.1.3 Test Mode = LTE/TM1 3MHz

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|            | 4.1.1.3.2    | Test Cha  | nnel = MC   | Н                 |         |                 |                |         |                        |  |
|------------|--------------|-----------|-------------|-------------------|---------|-----------------|----------------|---------|------------------------|--|
| Spectru    | m            |           |             |                   |         |                 |                |         |                        |  |
| Ref Lev    | el 35.00 dBn | n Offset  | 5.00 dB 😑 I | <b>RBW</b> 30 kł  | Ηz      |                 |                |         |                        |  |
| 🗕 Att      |              | B 🔵 SWT   | 10 ms 😑 '   | <b>VBW</b> 100 kł | Hz Mode | Auto Swee       | р              |         |                        |  |
| ●1Pk View  | ·            |           |             |                   |         |                 |                |         |                        |  |
| 30 dBm—    |              |           |             |                   | D       | 1[1]            |                |         | -0.23 dB               |  |
| 30 ubiii   |              |           |             |                   |         |                 |                |         |                        |  |
|            |              |           |             |                   |         | 1[1]            |                |         | 08691 MHz<br>11.61 dBm |  |
| 20 dBm—    |              |           |             |                   |         | -[-]            |                |         | 51950 MHz              |  |
|            | D1 14.340    | dBm T1a   | minh        | A atalan ara l    | n.M. An | and war an      | 172<br>1 m 177 |         |                        |  |
| 10 dBm—    |              | 7         | 1.000 .010  | · // · // /// //  | w       | 4 4 · · · · · · |                |         |                        |  |
|            |              |           |             |                   |         |                 |                |         |                        |  |
| 0 dBm      |              |           |             |                   |         |                 |                |         |                        |  |
|            |              |           |             |                   |         |                 |                |         |                        |  |
| -10 dBm—   |              | M1        |             |                   |         |                 | 41             |         |                        |  |
|            | D2 -1:       | 1.660 dBm |             |                   |         |                 |                |         |                        |  |
| -20.dBm-+  |              | hind      |             |                   |         |                 | here           |         |                        |  |
| ~20-dBMJ   | man          |           |             |                   |         |                 |                | rowwww  | monthing               |  |
| -30 dBm—   |              |           |             |                   |         |                 |                |         |                        |  |
| -30 ubiii— |              |           |             |                   |         |                 |                |         |                        |  |
|            |              |           |             |                   |         |                 |                |         |                        |  |
| -40 dBm—   |              |           |             |                   |         |                 |                |         |                        |  |
|            |              |           |             |                   |         |                 |                |         |                        |  |
| -50 dBm—   |              |           |             |                   |         |                 |                |         |                        |  |
|            |              |           |             |                   |         |                 |                |         |                        |  |
| -60 dBm—   |              |           |             |                   |         |                 |                |         |                        |  |
| CF 819.0   | <br>MHz      |           |             | 1001              | nts     |                 |                | <br>Sna | n 6.0 MHz              |  |
|            |              |           |             | 1001              |         |                 |                |         |                        |  |
| L          |              |           |             |                   | Mea     | suring          |                | 440     | 17:27:42 //            |  |

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|            | 4.1.1.3.3   | 3 Tes     | t Chan           | nel = HCł   | -                |         |           |            |        |                        |
|------------|-------------|-----------|------------------|-------------|------------------|---------|-----------|------------|--------|------------------------|
| Spectru    | m           |           |                  |             |                  |         |           |            |        |                        |
| Ref Lev    | el 35.00 d  | lBm C     | offset s         | 5.00 dB 😑 I | <b>RBW</b> 30 k  | Hz      |           |            |        |                        |
| 🔵 Att      | 40          | dB 🔵 S    | WT               | 10 ms 😑 '   | <b>VBW</b> 100 k | Hz Mode | Auto Swee | p          |        |                        |
| 😑 1Pk View | 1           |           |                  |             |                  |         |           |            |        |                        |
|            |             |           |                  |             |                  | D       | 1[1]      |            |        | -1.24 dB               |
| 30 dBm—    |             |           |                  |             |                  |         |           |            |        | 93110 MHz              |
|            |             |           |                  |             |                  |         | cc Bw     |            | 2.6913 | 08691 MHz              |
| 20 dBm—    |             |           |                  |             |                  | M       | 1[1]      |            | 0.0.1  | -9.61 dBm<br>03750 MHz |
|            | D1 15.34    | 40 dBm—   |                  |             |                  | N.      | I.        | D T 2      | 821.   | U373U MHZ              |
| 10 dBm—    |             |           | - Thu            | hann        | mound            | may     | Mr.       | - Witz     |        |                        |
|            |             |           | - [ ]            |             |                  |         |           |            |        |                        |
| 0 dBm      |             |           | - [ ]            |             |                  |         |           |            |        |                        |
| U UBIII    |             |           |                  |             |                  |         |           |            |        |                        |
|            |             |           | M#               |             |                  |         |           | 1          |        |                        |
| -10 dBm—   | D2          | -10.660 ( | d₿m <del>=</del> |             |                  |         |           |            |        |                        |
|            |             |           | 1                |             |                  |         |           | $1 \leq 1$ |        |                        |
| -20 dBm—   | A sate of   | - Anart   |                  |             |                  |         |           |            | mount  |                        |
| mound      | all a start |           |                  |             |                  |         |           |            |        | my year vou            |
| -30 dBm—   |             |           |                  |             |                  |         |           |            |        |                        |
| SO GDIII   |             |           |                  |             |                  |         |           |            |        |                        |
|            |             |           |                  |             |                  |         |           |            |        |                        |
| -40 dBm—   |             |           |                  |             |                  |         |           |            |        |                        |
|            |             |           |                  |             |                  |         |           |            |        |                        |
| -50 dBm—   |             |           |                  |             |                  |         |           |            |        |                        |
|            |             |           |                  |             |                  |         |           |            |        |                        |
| -60 dBm—   |             |           |                  |             |                  |         |           | -          |        |                        |
|            |             |           |                  |             |                  |         |           |            |        |                        |
| CF 822.5   | MHz         |           |                  |             | 1001             | l pts   |           |            |        | n 6.0 MHz              |
|            | L J         |           |                  |             |                  | Mea     | suring    |            | 444    | 14.04.2017<br>17:26:14 |

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#### 4.1.1.4.1 Test Channel = LCH ₽ Spectrum Ref Level 35.00 dBm Offset 5.00 dB 👄 RBW 30 kHz 40 dB 🖷 SWT 10 ms 👄 **VBW** 100 kHz Att Mode Auto Sweep ●1Pk View D1[1] -1.14 dB 30 dBm-2.96700 MHz Occ Bw 2.691308691 MHz -11.97 dBm M1[1] 20 dBm-814.00750 MHz D1 13.980 dBmmound month TIA role 10 dBm-10000 0 dBm-M -10 dBm--D2 -12.020 aBm-M AD AM ℊ₴₢₊₫₿₥ℯℯ∕⁴ man L A -30 dBm--40 dBm· -50 dBm--60 dBm-CF 815.5 MHz 1001 pts Span 6.0 MHz 14.04.2017 Measuring... 17:30:17

4.1.1.4 Test Mode = LTE/TM2 3MHz

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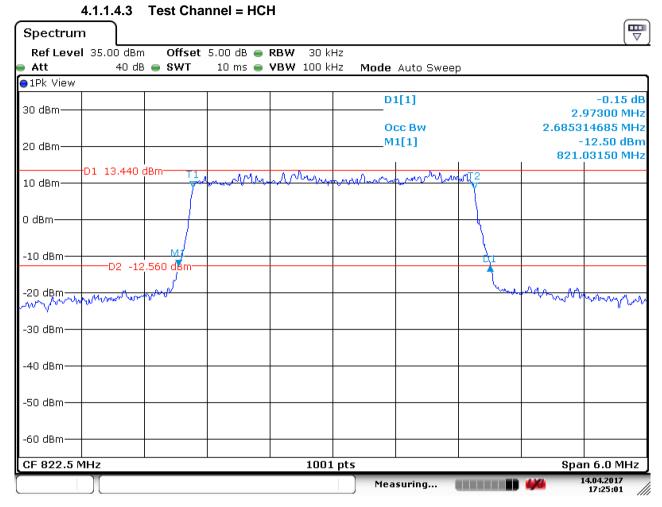
| Spectrum        | <u>,                                     </u>   |           |           |                   |         |               |                   |           |                                    |
|-----------------|---|-----------|-----------|-------------------|---------|---------------|-------------------|-----------|------------------------------------|
|                 | I 35.00 dBm   |           | 5.00 dB 👄 |                   |         |               |                   |           |                                    |
| Att<br>1Pk View | 40 aB   | e swt     | IU ms 📟   | <b>VBW</b> 100 kł | HZ Mode | Auto Swee     | эр                |           |                                    |
| 30 dBm          |   |           |           |                   |         | 1[1]<br>cc Bw |                   |           | -0.52 dB<br>93710 MHz<br>08691 MHz |
| 20 dBm          |   |           |           |                   |         | 1[1]          |                   | -         | 12.41 dBm<br>52550 MHz             |
| 10 dBm          | D1 13.500 (   | dBm T1    | 2mmrA.A.  | ക്രഹംവുകുഷ്ണം.    | manMAs  | n             | murt <sup>2</sup> |           |                                    |
| 0 dBm           |   |           |           |                   |         |               | +                 |           |                                    |
| -10 dBm         | D2 -12  | .500 dBm- |           |                   |         |               | <u> </u>          |           |                                    |
| -20 dBm         | Joner and the second | Asserved  |           |                   |         |               | - Trace           | Monoral y | www.                               |
| -30 dBm         |   |           |           |                   |         |               |                   |           |                                    |
| -40 dBm         |   |           |           |                   |         |               |                   |           |                                    |
| -50 dBm         |   |           |           |                   |         |               |                   |           |                                    |
| -60 dBm         |   |           |           |                   |         |               |                   |           |                                    |
| CF 819.0 M      | 1Hz   |           |           | 1001              | pts     |               |                   | Spa       | n 6.0 MHz                          |
|                 | )[  |           |           |                   |         | suring        |                   | -         | 14.04.2017<br>17:29:03             |

4.1.1.4.2 Test Channel = MCH

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#### 4.1.1.5.1 Test Channel = LCH ₽ Spectrum Ref Level 35.00 dBm Offset 5.00 dB 👄 RBW 50 kHz 40 dB 🖷 SWT 10 ms 👄 **VBW** 200 kHz Att Mode Auto Sweep ●1Pk View D1[1] -0.53 dB 30 dBm-4.97500 MHz Occ Bw 4.495504496 MHz -11.49 dBm M1[1] 20 dBm-813.99300 MHz FI War have a mar and the market and the second D1 14.480 dBm mon 10 dBm-0 dBm-M3 -10 dBm--D2 -11.520 dBm<sup>.</sup> 120 d8m-5 -30 dBm--40 dBm· -50 dBm--60 dBm-Span 10.0 MHz CF 816.5 MHz 1001 pts 14.04.2017 Measuring... ----17:19:22

4.1.1.5 Test Mode = LTE/TM1 5MHz

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|                                      | 4.1.1.5.2  | Test Cha         | nnel = MC | н                 |            |              |             |            |                        |
|--------------------------------------|--|------------------|-----------|-------------------|------------|--------------|-------------|------------|------------------------|
| Spectru                              | m  |                  |           |                   |            |              |             |            |                        |
| Ref Leve                             | el 35.00 dBn   | n Offset         | 5.00 dB 👄 | <b>RBW</b> 50 ki  | Ηz         |              |             |            |                        |
| 🗕 Att                                | 40 dE  | B 👄 SWT          | 10 ms 👄   | <b>VBW</b> 200 ki | Hz Mode    | Auto Swee    | р           |            |                        |
| ⊖1Pk View                            |  |                  |           |                   |            |              |             |            |                        |
| 00 JD                                |  |                  |           |                   | D          | 1[1]         |             |            | -1.70 dB               |
| 30 dBm—                              |  |                  |           |                   | _          | _            |             |            | 97500 MHz              |
|                                      |  |                  |           |                   |            | CC BW        |             |            | 04496 MHz              |
| 20 dBm—                              |  |                  |           |                   | IVI        | 1[1]         |             |            | 11.43 dBm<br>53200 MHz |
|                                      | D1 14.070  | dBm <del>T</del> |           |                   | , ոնս      | -            | <u>  72</u> | 010.       |                        |
| 10 dBm—                              | _  | Dar              | monand    | Winhow            | multin and | ~~~~~~~~~~~~ | 1 V V       |            |                        |
|                                      |  |                  |           |                   |            |              |             |            |                        |
| 0 dBm                                |  |                  |           |                   |            |              |             |            |                        |
| 0 0.0111                             |  |                  |           |                   |            |              | $  \rangle$ |            |                        |
| 10.10                                |  | мź               |           |                   |            |              |             |            |                        |
| -10 dBm—                             | D2 -1:   | 1.930 dBm—       |           |                   |            |              | <u>n</u>    |            |                        |
|                                      |  |                  |           |                   |            |              | ٦.          |            |                        |
| <sub>ч</sub> -20∕ḋ₿тҥ <sub>Ҁ</sub> ∕ | and the second and th | front -          |           |                   |            |              | 1.00/14     | warman and | m m                    |
|                                      |  |                  |           |                   |            |              |             |            | - vri                  |
| -30 dBm—                             |  |                  |           |                   |            |              |             |            |                        |
|                                      |  |                  |           |                   |            |              |             |            |                        |
| -40 dBm—                             |  |                  |           |                   |            |              |             |            |                        |
|                                      |  |                  |           |                   |            |              |             |            |                        |
| FO do-                               |  |                  |           |                   |            |              |             |            |                        |
| -50 dBm—                             |  |                  |           |                   |            |              |             |            |                        |
|                                      |  |                  |           |                   |            |              |             |            |                        |
| -60 dBm—                             |  |                  |           |                   |            |              |             |            |                        |
| CF 819.0                             | <br>MHz  |                  |           | 1001              | pts        |              | 1           | Span       | 10.0 MHz               |
| (                                    | ) (  |                  |           |                   |            | suring       |             |            | 14.04.2017             |
|                                      |  |                  |           |                   |            | surniy       |             |            | 17:17:43               |

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|            | 4.1.1.5.3      | Test Cha               | nnel = HCl | 4                 |         |            |                         |          |   |
|------------|----------------|------------------------|------------|-------------------|---------|------------|-------------------------|----------|---|
| Spectrur   | n              |                        |            |                   |         |            |                         |          |   |
| Ref Leve   | el 35.00 dBn   | n Offset               | 5.00 dB 😑  | <b>RBW</b> 50 kł  | Ηz      |            |                         |          |   |
| 🖷 Att      | 40 dB          | B 👄 SWT                | 10 ms 👄    | <b>VBW</b> 200 kł | Hz Mode | Auto Swee  | р                       |          |   |
| ⊖1Pk View  |                |                        |            |                   |         |            |                         |          |   |
| 00 d0      |                |                        |            |                   | D       | 1[1]       |                         |          | -0.21 dB                                |
| 30 dBm—    |                |                        |            |                   | _       |            |                         |          | 94100 MHz                               |
|            |                |                        |            |                   |         | CC BW      |                         |          | 24476 MHz                               |
| 20 dBm—    |                |                        |            |                   | IVI     | 1[1]       |                         |          | 11.81 dBm<br>05200 MHz                  |
|            | D1 14.150      | I<br>dBm <del>T1</del> |            | dı                |         | - Do       | 1 J2                    | 019.     |   |
| 10 dBm     |                | - W                    | www.m      | unnumber          | mana    | norder own | ην <del>Υ</del>         |          |   |
|            |                |                        |            |                   |         |            |                         |          |   |
| 0 dBm      |                |                        |            |                   |         |            |                         |          |   |
|            |                |                        |            |                   |         |            |                         |          |   |
|            |                | MI                     |            |                   |         |            |                         |          |   |
| -10 dBm—   | D2 -1:         | L.850 dBm              |            |                   |         |            | <u><u><u>q</u>1</u></u> |          |   |
|            |                |                        |            |                   |         |            | T <sub>u</sub>          |          |   |
| -20 dBm    | for the second | Aura                   |            |                   |         |            | bother                  | monologa | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| ~~~ 'V     |                |                        |            |                   |         |            |                         |          | m ha                                    |
| -30 dBm—   |                |                        |            |                   |         |            |                         |          |   |
|            |                |                        |            |                   |         |            |                         |          |   |
| -40 dBm—   |                |                        |            |                   |         |            |                         |          |   |
| -40 ubiii— |                |                        |            |                   |         |            |                         |          |   |
|            |                |                        |            |                   |         |            |                         |          |   |
| -50 dBm—   |                |                        |            |                   |         |            |                         |          |   |
|            |                |                        |            |                   |         |            |                         |          |   |
| -60 dBm—   |                |                        |            |                   |         |            |                         |          |   |
| 05 004 5   | <u> </u>       |                        |            |                   |         |            |                         |          |   |
| CF 821.5   | MHZ            |                        |            | 1001              | pts     |            |                         |          | 10.0 MHz                                |
|            | Л              |                        |            |                   | Mea     | suring     |                         | 4/4      | 14.04.2017<br>17:23:26                  |

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|                                    | 4.1.1.6.1    | Test Cha   | nnel = LCF  | 1                 |         |           |             |           | _                      |  |
|------------------------------------|--------------|------------|-------------|-------------------|---------|-----------|-------------|-----------|------------------------|--|
| Spectru                            | m            |            |             |                   |         |           |             |           |                        |  |
| Ref Lev                            | el 35.00 dBn | 1 Offset   | 5.00 dB 🥌 I | <b>RBW</b> 50 ki  | Hz      |           |             |           | `                      |  |
| 🔵 Att                              | 40 dE        | B 🔵 SWT    | 10 ms 👄 '   | <b>VBW</b> 200 ki | Hz Mode | Auto Swee | р           |           |                        |  |
| 😑 1Pk View                         | /            |            |             |                   |         |           |             |           |                        |  |
|                                    |              |            |             |                   | D       | 1[1]      |             |           | -0.36 dB               |  |
| 30 dBm—                            |              |            |             |                   |         |           |             |           | 94500 MHz              |  |
|                                    |              |            |             |                   |         |           |             |           | 04496 MHz              |  |
| 20 dBm—                            |              |            |             |                   | M       | 1[1]      |             |           | 12.39 dBm<br>02200 MHz |  |
|                                    | D1 13.370    | l<br>dBm   |             |                   |         |           |             |           |                        |  |
| 10 dBm—                            | DI 13.370    | 40m fra    | Marka       | mon               | margara | mon       | WY          |           |                        |  |
|                                    |              |            |             |                   |         |           |             |           |                        |  |
| 0 dBm                              |              |            |             |                   |         |           |             |           |                        |  |
| o abiii                            |              |            |             |                   |         |           |             |           |                        |  |
|                                    |              | M          |             |                   |         |           | $  \rangle$ |           |                        |  |
| -10 dBm—                           | D2 -12       | 2.630 dBm- |             |                   |         |           | <u> </u>    |           |                        |  |
|                                    | 0. 0. 0      | h W        |             |                   |         |           |             |           |                        |  |
| ,-20 <sup>7</sup> ∂8m <sup>™</sup> | unaman       |            |             |                   |         |           | ma          | man       | wwwwwww                |  |
|                                    |              |            |             |                   |         |           |             |           | ~                      |  |
| -30 dBm—                           |              |            |             |                   |         |           |             |           |                        |  |
|                                    |              |            |             |                   |         |           |             |           |                        |  |
| -40 dBm—                           |              |            |             |                   |         |           |             |           |                        |  |
|                                    |              |            |             |                   |         |           |             |           |                        |  |
| -50 dBm—                           |              |            |             |                   |         |           |             |           |                        |  |
| -50 ubiii—                         |              |            |             |                   |         |           |             |           |                        |  |
|                                    |              |            |             |                   |         |           |             |           |                        |  |
| -60 dBm—                           |              |            |             |                   |         |           |             |           |                        |  |
| CF 816.5                           | MHz          |            |             | 1001              | . pts   | 1         | 1           | l<br>Span | 10.0 MHz               |  |
| (                                  |              |            |             |                   |         | suring    |             | -         | 14.04.2017             |  |
|                                    |              |            |             |                   |         | surniy    |             |           | 17:20:42               |  |

4.1.1.6 Test Mode = LTE/TM2 5MHz

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| Spectrum   | , )         |  |           |                   |          |           |          |                   |                        |
|------------|-------------|--|-----------|-------------------|----------|-----------|----------|-------------------|------------------------|
|            | 35.00 dBm   |  | 5.00 dB 👄 |                   |          |           |          |                   |                        |
| Att        | 40 dB       | 🖷 SWT                                    | 10 ms 👄   | <b>VBW</b> 200 kł | Hz Mode  | Auto Swee | р        |                   |                        |
| ●1Pk View  |             |  |           |                   |          |           |          |                   |                        |
| 30 dBm     |             |  |           |                   | D        | 1[1]      |          | 4.                | -1.63 dB<br>94500 MHz  |
|            | c           |  |           |                   |          | cc Bw     |          |                   | 14486 MHz              |
| 20 dBm—    |             |  |           |                   | M        | 1[1]      |          |                   | 11.47 dBm<br>53200 MHz |
|            | D1 14.460 ( | dBm                                      |           | Λ                 |          |           | 70       | 010.              | 50200 1112             |
| 10 dBm     |             | - Jer                                    | Mmm       | mandum            | 3 Augure | Re_Allow  | unge     |                   |                        |
| 0 dBm      |             |  |           |                   |          |           |          |                   |                        |
|            |             |  |           |                   |          |           |          |                   |                        |
| -10 dBm    | D211        | M1<br>540 dBm—                           |           |                   |          |           |          |                   |                        |
|            | 02 -11      |  |           |                   |          |           | <b>₹</b> |                   |                        |
| -20 dBm    |             | a la |           |                   |          |           | - Japa   | the second second | www.                   |
| -30 dBm    |             |  |           |                   |          |           |          |                   |                        |
| -30 UBIII  |             |  |           |                   |          |           |          |                   |                        |
| -40 dBm    |             |  |           |                   |          |           |          |                   |                        |
|            |             |  |           |                   |          |           |          |                   |                        |
| -50 dBm    |             |  |           |                   |          |           |          |                   |                        |
|            |             |  |           |                   |          |           |          |                   |                        |
| -60 dBm    |             |  |           |                   |          |           |          |                   |                        |
| CF 819.0 M | IHz         |  | ·         | 1001              | pts      | •         |          | Span              | 10.0 MHz               |
|            |             |  |           |                   | Mea      | asuring   |          | <b>4/4</b>        | 14.04.2017<br>17:16:35 |

4.1.1.6.2 Test Channel = MCH

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| Spectrum   | 'n            |                |           |                   |         |          |     |                       |                        |
|------------|---------------|----------------|-----------|-------------------|---------|----------|-----|-----------------------|------------------------|
| Ref Level  | 35.00 dBm     | n Offset       | 5.00 dB 👄 | <b>RBW</b> 50 ki  | Ηz      |          |     |                       |                        |
| Att        | 40 dE         | B 😑 SWT        | 10 ms 😑   | <b>VBW</b> 200 ki | Hz Mode | Auto Swe | ер  |                       |                        |
| ●1Pk View  |               |                |           |                   |         |          |     |                       |                        |
| 30 dBm     |               |                |           |                   | D       | 1[1]     |     | 4.                    | -0.50 dB<br>95100 MHz  |
|            |               |                |           |                   |         | cc Bw    |     |                       | 14486 MHz              |
| 20 dBm     |               |                |           |                   | W       | 1[1]     |     |                       | 12.32 dBm<br>04200 MHz |
| 10 dBm     | D1 13.320     | dBm <u>Tim</u> | mm        | -                 | noun    | munt     | ww. |                       |                        |
|            |               | j j            |           |                   |         |          |     |                       |                        |
| 0 dBm      |               |                |           |                   |         |          |     |                       |                        |
| -10 dBm    |               | м              |           |                   |         |          |     |                       |                        |
| 10 0.011   |               | 2.680 dBm-     |           |                   |         |          |     |                       |                        |
| -20 dBm    | which the Art | ww             |           |                   |         |          |     | ob <del>ran vin</del> | man hard               |
| -30 dBm    |               |                |           |                   |         |          |     |                       |                        |
|            |               |                |           |                   |         |          |     |                       |                        |
| -40 dBm    |               |                |           |                   |         |          |     |                       |                        |
| -50 dBm    |               |                |           |                   |         |          |     |                       |                        |
|            |               |                |           |                   |         |          |     |                       |                        |
| -60 dBm    |               |                |           |                   |         |          |     |                       |                        |
| CF 821.5 M | 1Hz           | 1              | 1         | 1001              | pts     | 1        |     |                       | 10.0 MHz               |
|            |               |                |           |                   | Mea     | suring   |     | <b>4/4</b>            | 14.04.2017<br>17:22:16 |

#### 4.1.1.6.3 Test Channel = HCH

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#### 4.1.1.7.1 Test Channel = MCH ₽ Spectrum Ref Level 35.00 dBm Offset 5.00 dB 👄 RBW 100 kHz 40 dB 🖷 SWT 10 ms 👄 **VBW** 300 kHz Att Mode Auto Sweep ●1Pk View D1[1] -0.69 dB 30 dBm-9.8900 MHz Occ Bw 8.991008991 MHz -11.26 dBm M1[1] 20 dBm-814.0450 MHz D1 14.410 dBm-TIN man marine way way advant 10 dBm-0 dBm-M1 -10 dBm--D2 -11.590 dBm<sup>.</sup> Monn Just -20 dBm the manufacture of the second -30 dBm--40 dBm· -50 dBm--60 dBm-Span 20.0 MHz CF 819.0 MHz 1001 pts 14.04.2017 Measuring... 17:15:05

4.1.1.7 Test Mode = LTE/TM1 10MHz

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|            | 4.1.1.8.1   | Test Cha                  | nnel = MCH         |                  |         |           |  |                 |                       |
|------------|-------------|---------------------------|--------------------|------------------|---------|-----------|--|-----------------|-----------------------|
| Spectrun   | n           |                           |                    |                  |         |           |  |                 |                       |
| Ref Leve   | I 35.00 dBr | n Offset                  | 5.00 dB 🥌 RI       | <b>BW</b> 100 kH | Ηz      |           |  |                 |                       |
| 🖷 Att      | 40 di       | B 👄 SWT                   | 10 ms 🔵 <b>V</b> l | <b>BW</b> 300 kH | lz Mode | Auto Swee | p                                      |                 |                       |
| ⊖1Pk View  |             |                           |                    |                  |         |           |  |                 |                       |
|            |             |                           |                    |                  | D       | 1[1]      |  |                 | -0.52 dB              |
| 30 dBm     |             |                           |                    |                  |         |           |  |                 | .6900 MHz             |
|            |             |                           |                    |                  |         | cc Bw     |  | 8.971028971 MHz |                       |
| 20 dBm     |             |                           |                    |                  | M       | 1[1]      |  |                 | 10.87 dBm<br>1650 MHz |
|            | D1 15.050   | dBm T1                    |                    |                  |         | 1 6       | 1 70                                   | 014             | F. 1030 MHZ           |
| 10 dBm     |             | - Vin                     | howhang            | money            | manhan  | numul     | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |                 |                       |
|            |             |                           |                    |                  |         |           | 11                                     |                 |                       |
| 0 dBm      |             |                           |                    |                  |         |           | 1 1                                    |                 |                       |
| 0 46111    |             |                           |                    |                  |         |           |  |                 |                       |
|            |             | мź                        |                    |                  |         |           | 7                                      |                 |                       |
| -10 dBm—   | D2 -1       | 0.950 d <mark>8</mark> m— |                    |                  |         |           |  |                 |                       |
|            | 0           | المور و م                 |                    |                  |         |           | 1 2                                    |                 |                       |
| -20 dBm    | Amender     | www.                      |                    |                  |         |           | Mark                                   | hall how have   | and white             |
| Second .   |             |                           |                    |                  |         |           |  |                 | - Mar                 |
| -30 dBm    |             |                           |                    |                  |         |           |  |                 |                       |
|            |             |                           |                    |                  |         |           |  |                 |                       |
| -40 dBm    |             |                           |                    |                  |         |           |  |                 |                       |
| -40 ubiii  |             |                           |                    |                  |         |           |  |                 |                       |
|            |             |                           |                    |                  |         |           |  |                 |                       |
| -50 dBm—   |             |                           |                    |                  |         |           |  |                 |                       |
|            |             |                           |                    |                  |         |           |  |                 |                       |
| -60 dBm—   |             |                           |                    |                  |         |           |  |                 |                       |
| CF 819.0 r |             |                           |                    | 1001             | nte     |           |  |                 | 00.0 MU-              |
| [ CF 019.0 |             |                           |                    | 1001             |         |           | -                                      |                 | 20.0 MHz              |
|            |             |                           |                    |                  | Mea     | suring    |  | 4/4             | 17:13:19              |

#### 4.1.1.8 Test Mode = LTE/TM2 10MHz

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#### 5 Band Edges Compliance

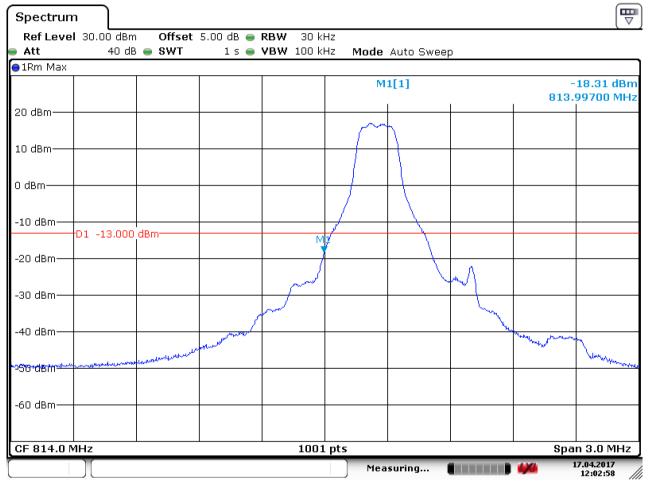
#### 5.1 For LTE

#### 5.1.1 Test Band = LTE band26(814-824)

#### 5.1.1.1 Test Mode = LTE/TM1 1.4MHz

5.1.1.1.1 Test Channel = LCH

#### 5.1.1.1.1 Test RB=1RB

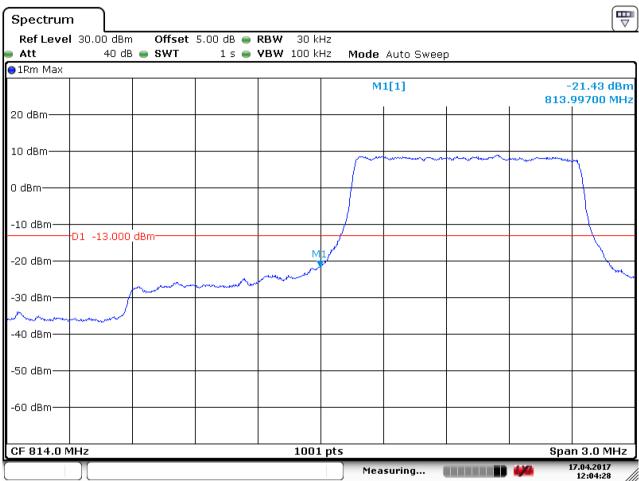


Date: 17.APR.2017 12:02:59

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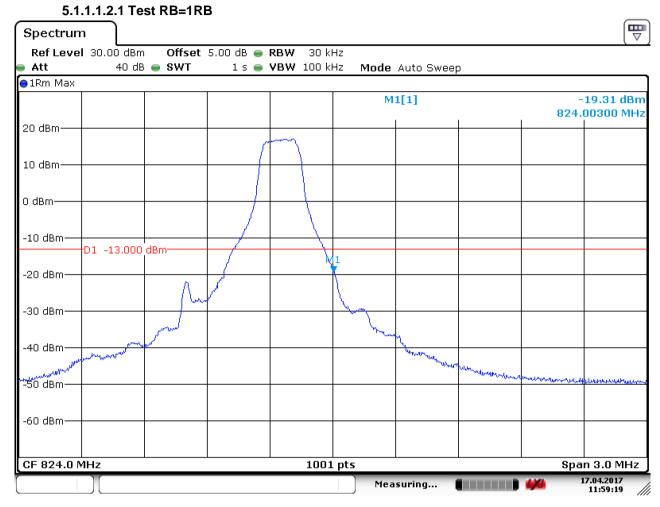


5.1.1.1.1.2 Test RB=6RB

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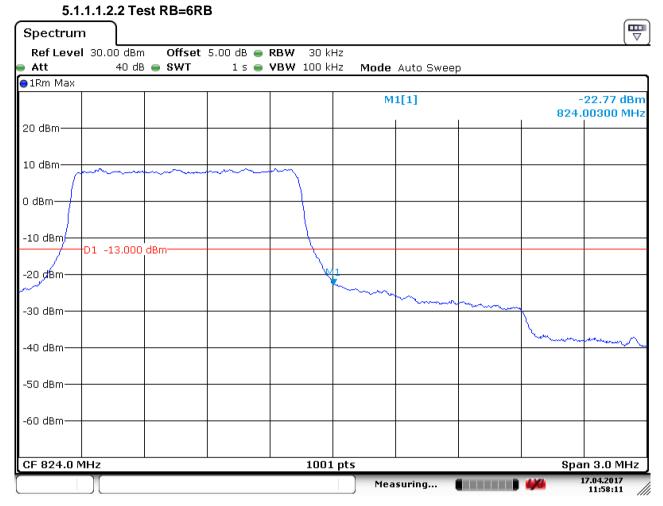


#### 5.1.1.1.2 Test Channel = HCH

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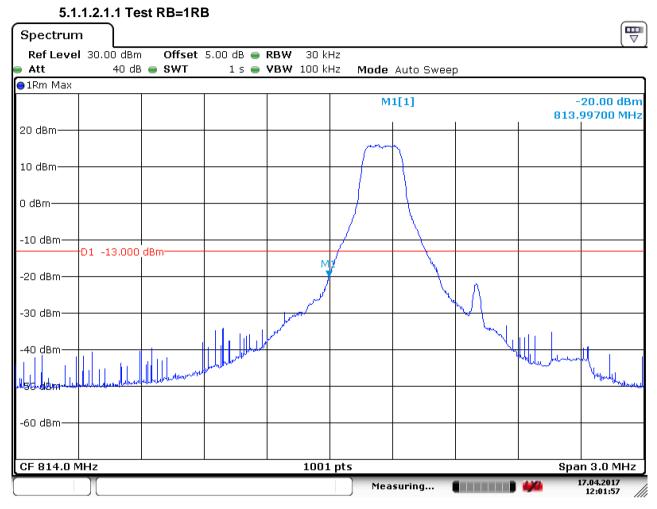
Date: 17.APR.2017 11:58:12



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#### 5.1.1.2 Test Mode = LTE/TM2 1.4MHz

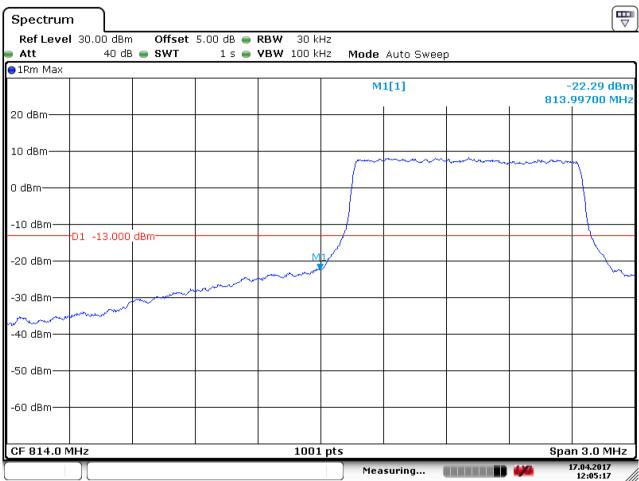
#### 5.1.1.2.1 Test Channel = LCH



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5.1.1.2.1.2 Test RB=6RB

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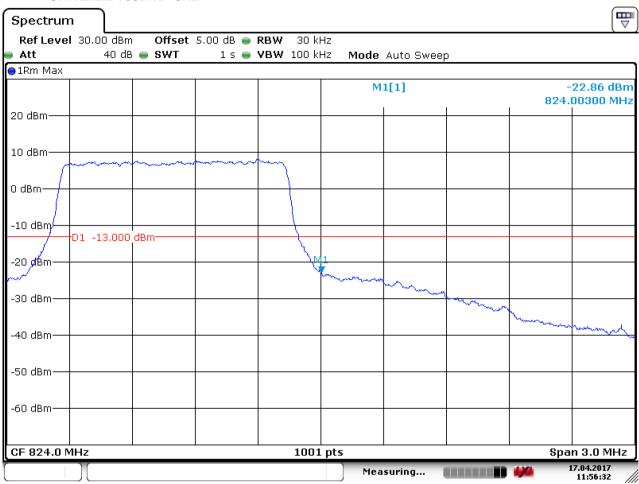


#### 5.1.1.2.2 Test Channel = HCH

Date: 17.APR.2017 12:00:11



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5.1.1.2.2.2 Test RB=6RB

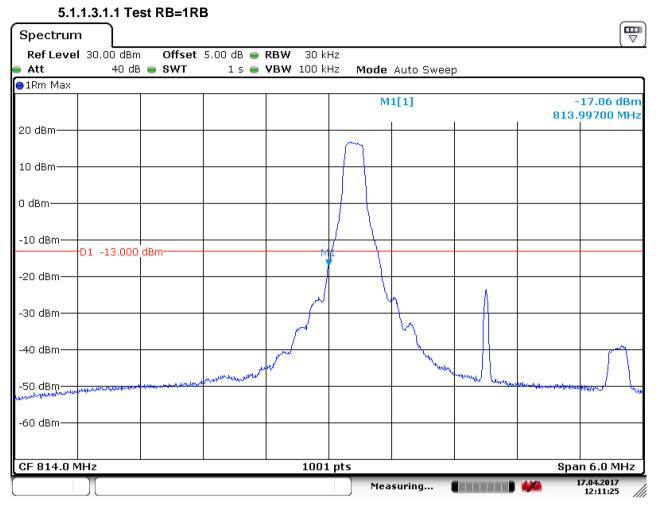
Date: 17.APR.2017 11:56:33



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#### 5.1.1.3 Test Mode = LTE/TM1 3MHz

#### 5.1.1.3.1 Test Channel = LCH



Date: 17.APR.2017 12:11:25



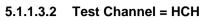
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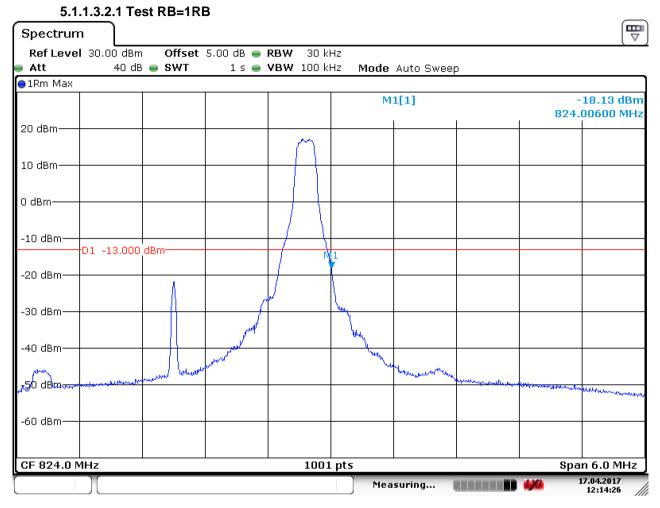
| 5.1.       | .1.3.1.2 Te    | st RB=15 | RB   |                   |       |      |           |      |      |               |
|------------|----------------|----------|--|-------------------|-------|------|-----------|------|------|---------------|
| Spectrum   | ι              |          |  |                   |       |      |           |      |      |               |
| Ref Level  | 30.00 dBm      | o Offset | 5.00 dB 👄  | <b>RBW</b> 30 ki  | Hz    |      |           |      |      |               |
| e Att      | 40 dB          | s 🔵 SWT  | 1 s 👄  | <b>VBW</b> 100 ki | Hz    | Mode | Auto Swee | o    |      |               |
| ⊖1Rm Max   |                |          |  |                   |       |      |           |      |      |               |
|            |                |          |  |                   |       | M    | 1[1]      |      |      | 23.87 dBm     |
| 20 dBm     |                |          |  |                   |       |      |           |      | 813. | 99700 MHz<br> |
| 20 0011    |                |          |  |                   |       |      |           |      |      |               |
| 10 dBm     |                |          |  |                   |       |      |           |      |      |               |
|            |                |          |  |                   |       |      |           |      |      |               |
| a 15       |                |          |  |                   | ſ     | rano | marine    | munh | man  | mont          |
| 0 dBm      |                |          |  |                   |       |      |           |      |      |               |
|            |                |          |  |                   |       |      |           |      |      |               |
| -10 dBm—   | D1 -13.000     | dBm      |  |                   |       |      |           |      |      |               |
|            | 01 10,000      |          |  |                   |       |      |           |      |      |               |
| -20 dBm—   |                |          |  | M                 | ţ     |      |           |      |      | $\vdash$      |
|            |                |          |  | mont              | ĺ     |      |           |      |      | `<br>ا        |
| -30 dBm    | and the second |          | and the second | person a constant |       |      |           |      |      |               |
|            |                |          |  |                   |       |      |           |      |      |               |
| ~40.dBm    |                |          |  |                   |       |      |           |      |      |               |
|            |                |          |  |                   |       |      |           |      |      |               |
| -50 dBm—   |                |          |  |                   |       |      |           |      |      |               |
|            |                |          |  |                   |       |      |           |      |      |               |
| -60 dBm—   |                |          |  |                   |       |      |           |      |      |               |
|            |                |          |  |                   |       |      |           |      |      |               |
| CF 814.0 M | 111-7          |          |  | 1001              | nte   |      |           |      |      | n 6.0 MHz     |
|            |                |          |  | 1001              | . prs |      |           |      | -    | 11 0.0 11112  |
|            |                |          |  |                   |       | Mea  | suring    |      | 444  | 12:10:45 //   |

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| Spectrum   |             |   |           |                            |                     |                         |    |         |                          |
|------------|-------------|---|-----------|----------------------------|---------------------|-------------------------|----|---------|--------------------------|
| Ref Level  | 30.00 dBm   | Offset                                    | 5.00 dB 👄 | <b>RBW</b> 30 k            | Hz                  |                         |    |         | (                        |
| Att 🗧      | 40 dB       | 🖷 SWT                                     | 1 s 👄     | <b>VBW</b> 100 k           | Hz Mode             | Auto Swe                | ер |         |                          |
| 😑 1Rm Max  |             |   |           |                            |                     |                         |    |         |                          |
|            |             |   |           |                            | M1[1] -25<br>824.00 |                         |    |         |                          |
| 20 dBm     |             |   |           |                            |                     |                         |    |         |                          |
| 10 dBm     |             |   |           |                            |                     |                         |    |         |                          |
| 0 dBm      | wante warde | han an a | manner    | and we wanted and a second |                     |                         |    |         |                          |
| -10 dBm    | D1 -13.000  | dBm                                       |           |                            |                     |                         |    |         |                          |
| -20 dBm    |             |   |           | $ \rightarrow $            | 1                   |                         |    |         |                          |
| -30 dBm    |             |   |           |                            | human               | all marker and a second | -  |         |                          |
| -40 dBm    |             |   |           |                            |                     |                         |    | man     | - Contraction            |
| -50 dBm    |             |   |           |                            |                     |                         |    |         |                          |
| -60 dBm    |             |   |           |                            |                     |                         |    |         |                          |
| CF 824.0 M | Hz          |   |           | 1001                       | pts                 |                         |    | <br>Spa | n 6.0 MHz                |
|            | ][          |   |           |                            |                     | suring                  |    | -       | 7.04.2017<br>12:15:13 // |

5.1.1.3.2.2 Test RB=15RB

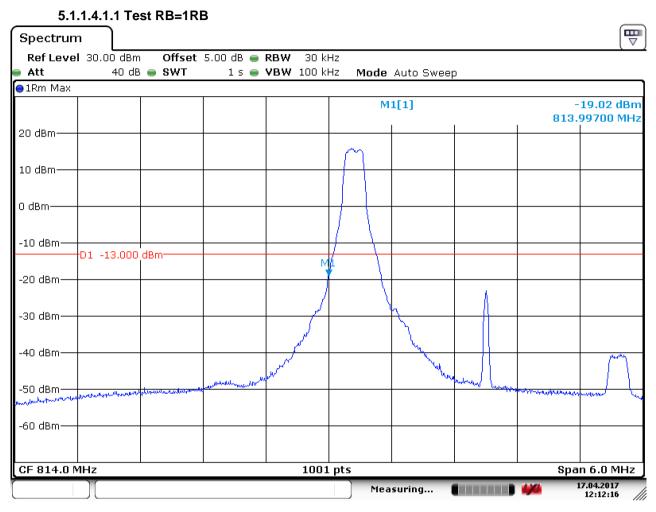
Date: 17.APR.2017 12:15:13



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#### 5.1.1.4 Test Mode = LTE/TM2 3MHz

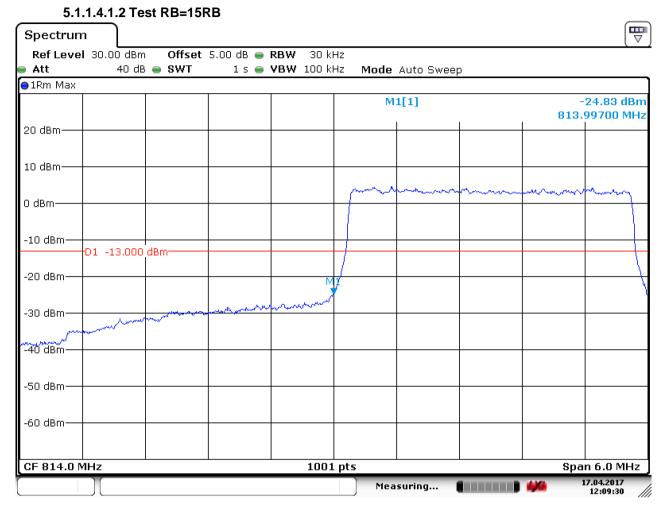
#### 5.1.1.4.1 Test Channel = LCH



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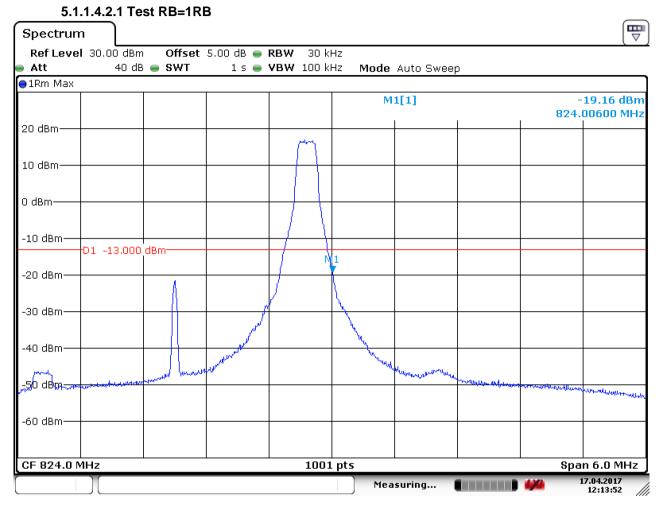


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| Spectrum   | , J           |                  |                    |                  |             |  |                |            |                        |
|------------|---------------|------------------|--------------------|------------------|-------------|--|----------------|------------|------------------------|
| Ref Level  | 30.00 dBm     | Offset           | 5.00 dB 👄          | <b>RBW</b> 30 k  | :Hz         |  |                |            |                        |
| 🖷 Att      | 40 dB         | 🔵 SWT            | 1 s 👄              | <b>VBW</b> 100 k | Hz Mode     | Auto Swee  | р              |            |                        |
| ⊖1Rm Max   |               |                  |                    |                  |             |  |                |            |                        |
|            |               |                  |                    |                  | M           | 1[1]   |                |            | 24.87 dBm<br>00600 MHz |
| 20 dBm     |               |                  |                    |                  |             |  |                |            |                        |
| 10 dBm     |               |                  |                    |                  |             |  |                |            |                        |
| 0 dBm      | - Ann Maharan | -nyayanaa ya yaa | adje ware and more | manan            |             |  |                |            |                        |
| -10 dBm    |               |                  |                    |                  |             |  |                |            |                        |
| -20 dBm    | D1 -13.000    | dBm              |                    |                  |             |  |                |            |                        |
| /          |               |                  |                    | Ą                | 1<br>Mulana |  |                |            |                        |
| -30 dBm——  |               |                  |                    |                  |             | and and a second se | when we wanted | month      | \$                     |
| -40 dBm    |               |                  |                    |                  |             |  |                |            | South of the second    |
| -50 dBm    |               |                  |                    |                  |             |  |                |            |                        |
| -60 dBm    |               |                  |                    |                  |             |  |                |            |                        |
| CE 024 0 M |               |                  |                    | 100              | 1 ptc       |  |                |            | n 6 0 MU-              |
| CF 824.0 M |               |                  |                    | 100.             | 1 pts       | _  | -              | -          | n 6.0 MHz              |
|            | Л             |                  |                    |                  | Mea         | isuring  |                | <b>4/4</b> | 12:15:48               |

#### 5.1.1.4.3 Test RB=15RB

Date: 17.APR.2017 12:15:49

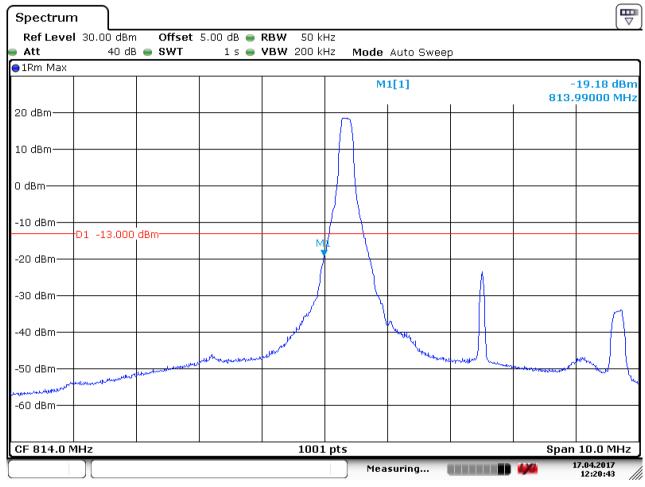


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#### 5.1.1.5 Test Mode = LTE/TM1 5MHz

#### 5.1.1.5.1 Test Channel = LCH

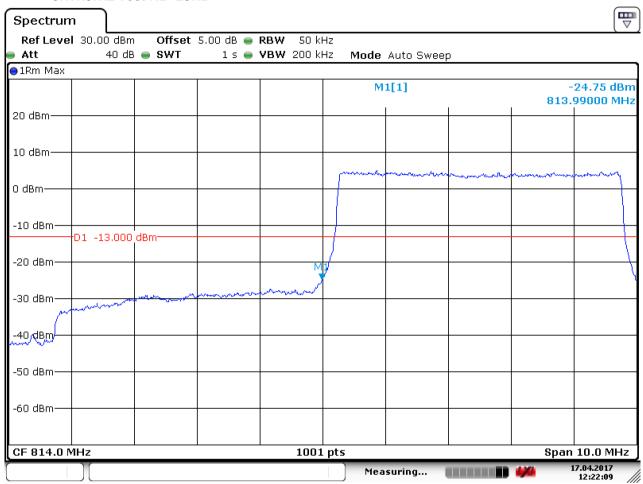
#### 5.1.1.5.1.1 Test RB=1RB



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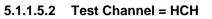


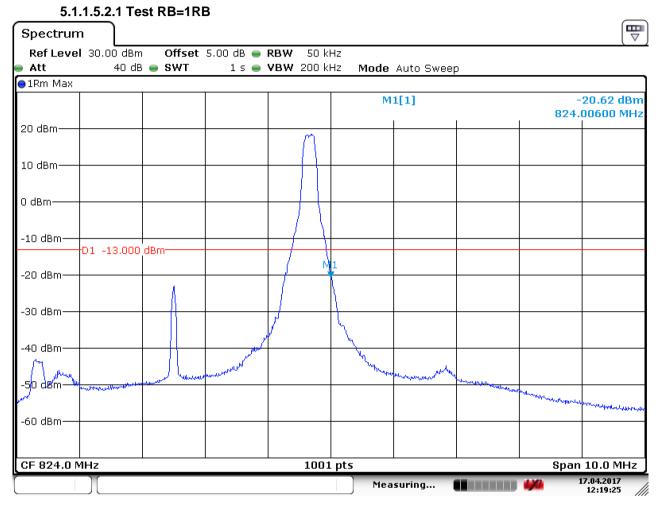
5.1.1.5.1.2 Test RB=25RB

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| Spectrum         |                    |               |                    |                                     |       |           |     |          |                        |
|------------------|--------------------|---------------|--------------------|-------------------------------------|-------|-----------|-----|----------|------------------------|
| Ref Level<br>Att | 30.00 dBm<br>40 dB | Offset<br>SWT | 5.00 dB 👄<br>1 s 👄 | <b>RBW</b> 50 k<br><b>VBW</b> 200 k |       | Auto Swee | 90  |          |                        |
| ●1Rm Max         |                    |               |                    |                                     |       |           | - F |          |                        |
|                  |                    |               |                    |                                     | м     | 1[1]      |     |          | 25.41 dBm<br>00600 MHz |
| 20 dBm           |                    |               |                    |                                     |       |           |     |          |                        |
| 10 dBm           |                    |               |                    |                                     |       |           |     |          |                        |
| 0 dBm            |                    |               |                    |                                     |       |           |     |          |                        |
| -10 dBm          | D1 -13.000         | dBm           |                    |                                     |       |           |     |          |                        |
| -20 dBm          |                    |               |                    | <u>}</u>                            | 1     |           |     |          |                        |
| -30 dBm          |                    |               |                    |                                     |       |           |     |          | ~                      |
| -40 dBm          |                    |               |                    |                                     |       |           |     |          | han                    |
| -50 dBm          |                    |               |                    |                                     |       |           |     |          |                        |
| -60 dBm          |                    |               |                    |                                     |       |           |     |          |                        |
| CF 824.0 M       | Hz                 |               |                    | 100                                 | l pts |           |     | <br>Span | 10.0 MHz               |
| (                | ][                 |               |                    |                                     |       | isuring   |     |          | 7.04.2017<br>12:17:03  |

5.1.1.5.2.2 Test RB=25RB

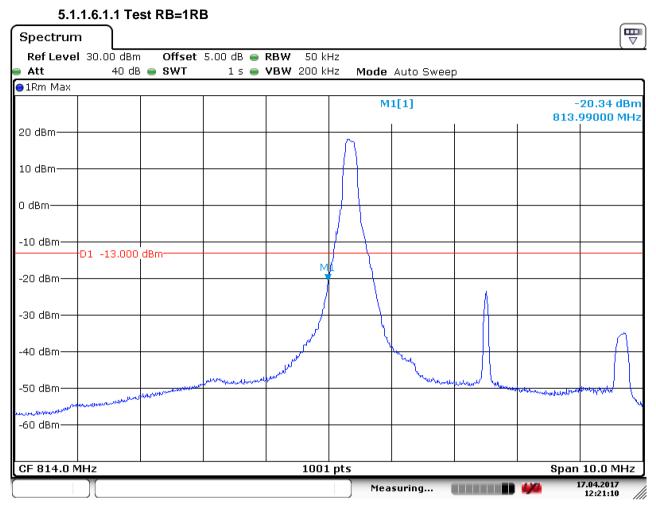
Date: 17.APR.2017 12:17:04



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#### 5.1.1.6 Test Mode = LTE/TM2 5MHz

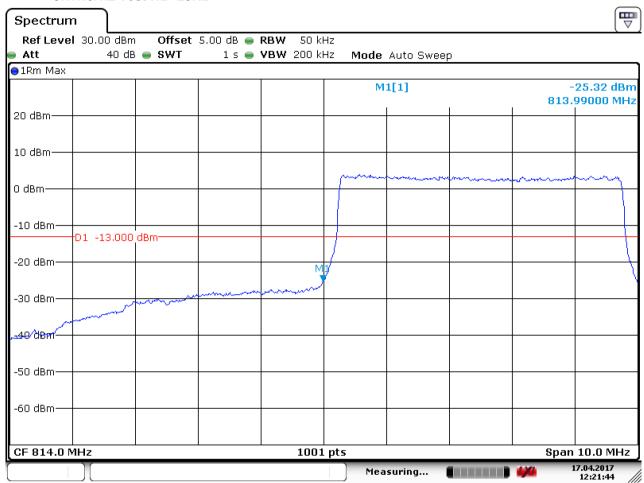
#### 5.1.1.6.1 Test Channel = LCH



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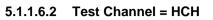


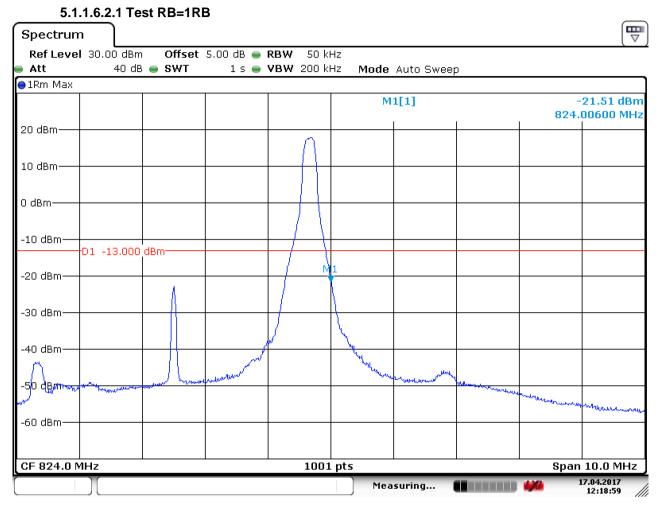
5.1.1.6.1.2 Test RB=25RB

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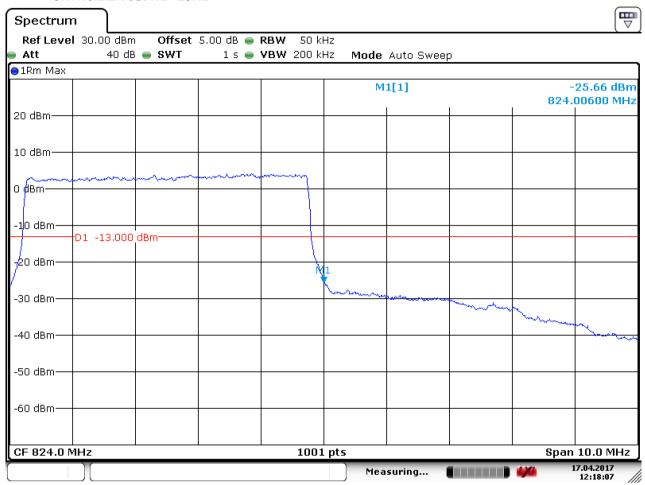




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5.1.1.6.2.2 Test RB=25RB

Date: 17.APR.2017 12:18:07

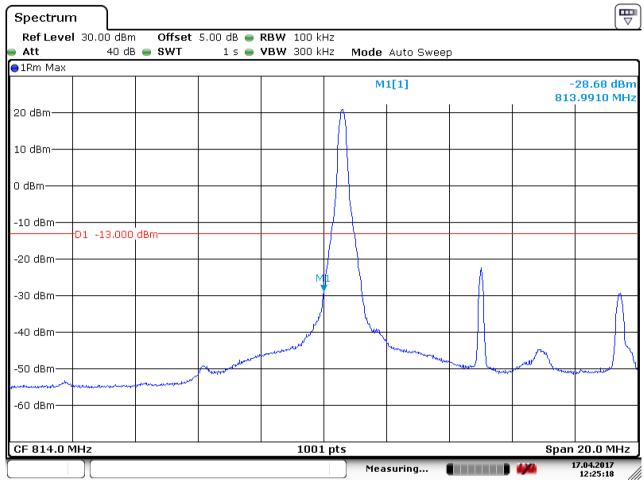


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#### 5.1.1.7 Test Mode = LTE/TM1 10MHz

#### 5.1.1.7.1 Test Channel = LCH

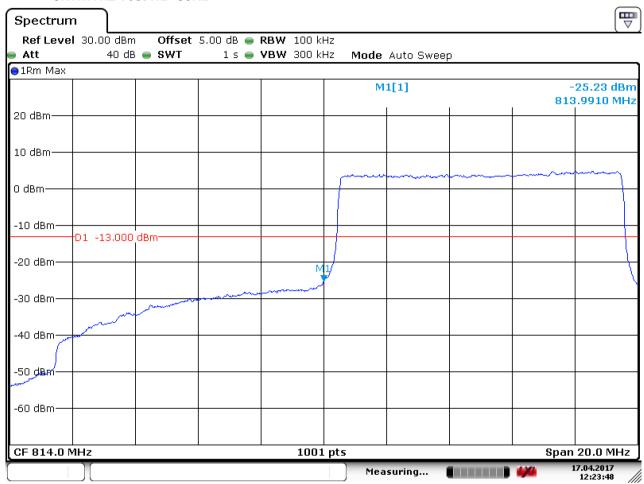
#### 5.1.1.7.1.1 Test RB=1RB



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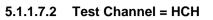


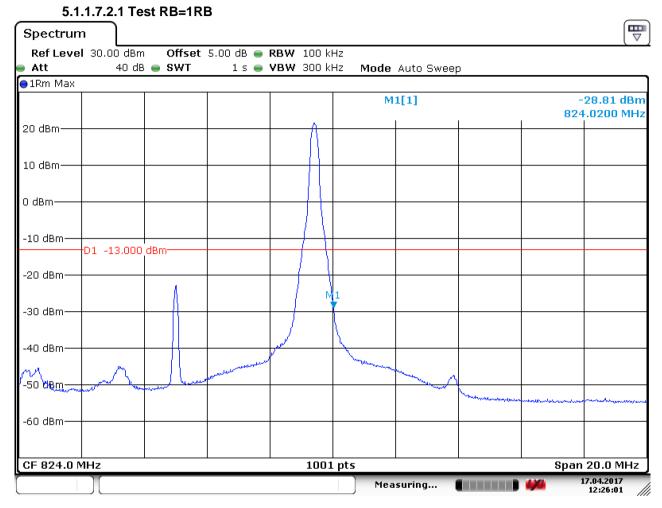
5.1.1.7.1.2 Test RB=50RB

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| Spectrum           |                    | 31110-30  |                    |  |       |           |   |          |                        |
|--------------------|--------------------|---|--------------------|--|-------|-----------|---|----------|------------------------|
| Ref Level<br>e Att | 30.00 dBm<br>40 dB | Offset  | 5.00 dB 👄<br>1 s 👄 | <b>RBW</b> 100 k<br><b>VBW</b> 300 k   |       | Auto Swee | p |          |                        |
| ⊖1Rm Max           |                    |   |                    |  |       |           |   |          | •                      |
|                    |                    |   |                    |  | M     | 1[1]      |   |          | 26.87 dBm<br>.0200 MHz |
| 20 dBm——           |                    |   |                    |  |       |           |   |          |                        |
| 10 dBm             |                    |   |                    |  |       |           |   |          |                        |
| 0 dBm              |                    | gadad you and a second s |                    | - entration -                          |       |           |   |          |                        |
| -10 dBm            | D1 -13.000         | dBm   |                    |  |       |           |   |          |                        |
| -20 dBm            |                    |   |                    |  | 1     |           |   |          |                        |
| -30 dBm            |                    |   |                    | `````````````````````````````````````` |       |           | - |          |                        |
| -40 dBm            |                    |   |                    |  |       |           |   |          | - Junior               |
| -50 dBm            |                    |   |                    |  |       |           |   |          |                        |
| -60 dBm            |                    |   |                    |  |       |           |   |          |                        |
| CF 824.0 M         | IHz                |   |                    | 1001                                   | L pts |           |   | <br>Span | 20.0 MHz               |
| (                  | )[                 |   |                    |  | ) Mea | suring    |   | 444      | 7.04.2017<br>12:27:38  |

5.1.1.7.2.2 Test RB=50RB

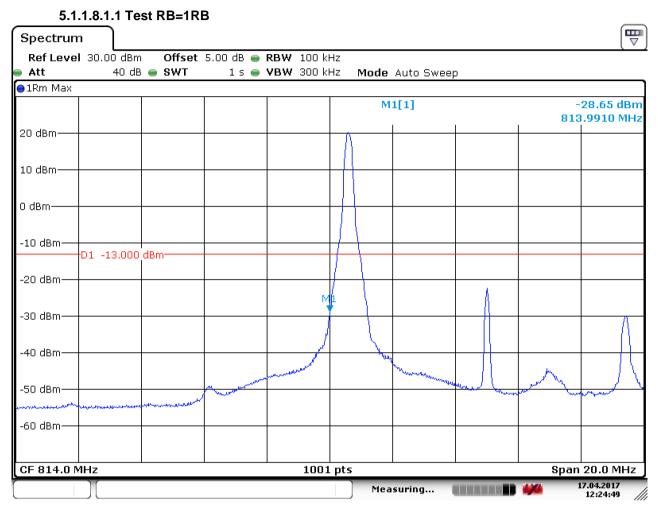
Date: 17.APR.2017 12:27:38



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#### 5.1.1.8 Test Mode = LTE/TM2 10MHz

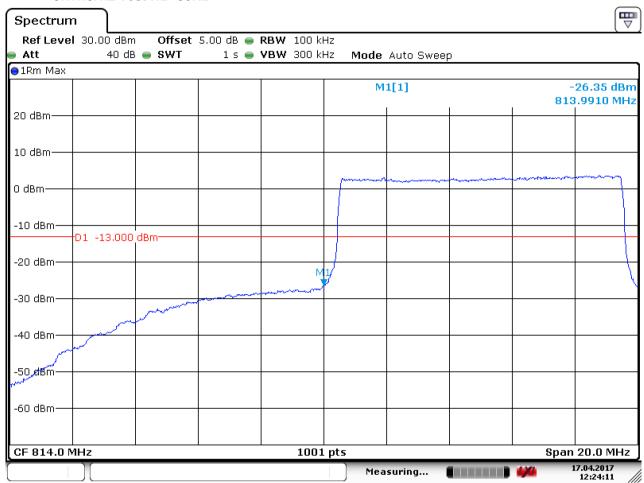
#### 5.1.1.8.1 Test Channel = LCH



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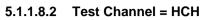


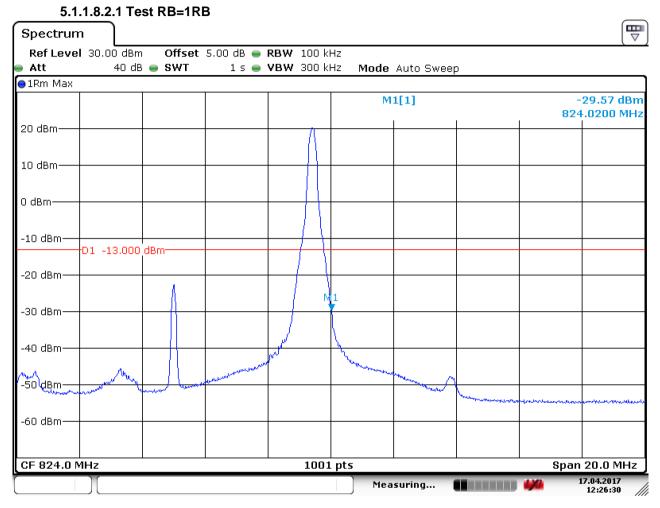
5.1.1.8.1.2 Test RB=50RB

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5.1.1.8.2.2 Test RB=50RB

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#### 6 Spurious Emission at Antenna Terminal

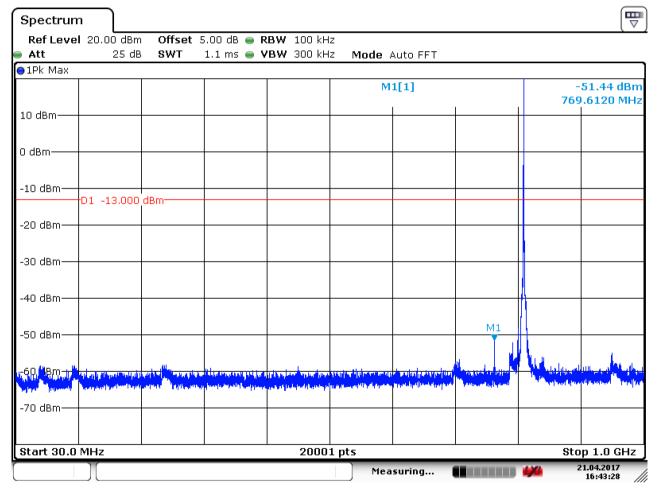
NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k \*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

#### 6.1.1 Test Band = LTE band26(814-824)

6.1.1.1 Test Mode = LTE / TM1 1.4MHz RB1#0

6.1.1.1.1 Test Channel = LCH



Date: 21.APR.2017 16:43:29

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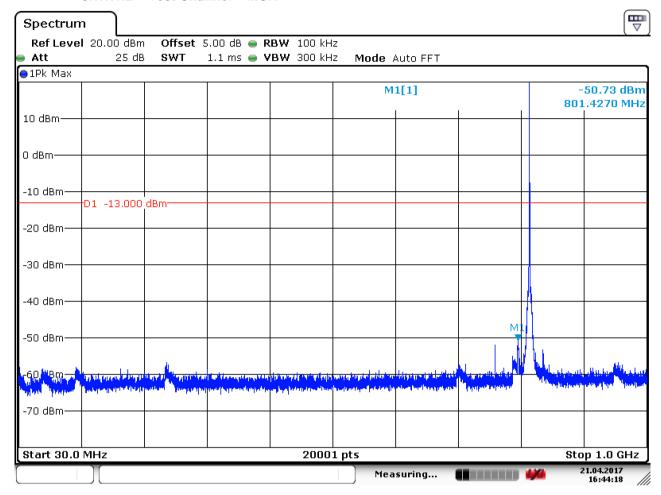
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| Spectrun                   | n                        |                       |                         |                       |                     |               |                                      |                                 |
|----------------------------|--------------------------|-----------------------|-------------------------|-----------------------|---------------------|---------------|--------------------------------------|---------------------------------|
|                            | l 20.00 dBm              |                       | 5.00 dB 👄 R             |                       |                     |               |                                      |                                 |
| Att<br>1Pk Max             | 25 dE                    | SWT                   | 27 ms 🖷 🛛               | BW 3 MHz              | Mode Au             | ito Sweep     |                                      |                                 |
| ULEK MON                   |                          |                       |                         |                       | м                   | 1[1]          |                                      | <br>32.80 dBm                   |
|                            |                          |                       |                         |                       |                     |               |                                      | 28840 GHz                       |
| 10 dBm                     |                          |                       |                         |                       |                     |               |                                      |                                 |
|                            |                          |                       |                         |                       |                     |               |                                      |                                 |
| 0 dBm——                    |                          |                       |                         |                       |                     |               |                                      |                                 |
| -10 dBm—                   |                          |                       |                         |                       |                     |               |                                      |                                 |
| -10 000                    | D1 -13.000               | dBm                   |                         |                       |                     |               |                                      |                                 |
| -20 dBm                    |                          |                       |                         |                       |                     |               |                                      |                                 |
|                            |                          |                       |                         |                       |                     |               |                                      |                                 |
| -30 dB <mark>M</mark> 1    |                          |                       |                         |                       |                     |               |                                      |                                 |
|                            |                          |                       |                         |                       |                     |               |                                      |                                 |
| -40 dBm                    |                          |                       |                         |                       | والملاقين والعلميان | in destitions |                                      |                                 |
|                            |                          | المعلمة معارطة سامران | a talah sa bi da taa in | ومنازله إسابته معريات |                     |               |                                      |                                 |
| ₁ <mark>50,d8m</mark> ente | (And a standard standard | and the second second |                         |                       |                     |               | n and factors and another the second | <br>Contracting in the later of |
| -60 dBm—                   |                          |                       |                         |                       |                     |               |                                      |                                 |
| -00 00111                  |                          |                       |                         |                       |                     |               |                                      |                                 |
| -70 dBm                    |                          |                       |                         |                       |                     |               |                                      |                                 |
|                            |                          |                       |                         |                       |                     |               |                                      |                                 |
| Start 1.0 (                | <br>GHz                  |                       |                         | 2000                  | 1 pts               |               |                                      | <br>10.0 GHz                    |
|                            | Υ                        |                       |                         |                       |                     | suring        |                                      | 1.04.2017                       |
|                            |                          |                       |                         |                       | ·                   | -             |                                      | 16:41:51                        |

Date: 21.APR.2017 16:41:51



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#### 6.1.1.1.2 Test Channel = MCH

Date: 21.APR.2017 16:44:18



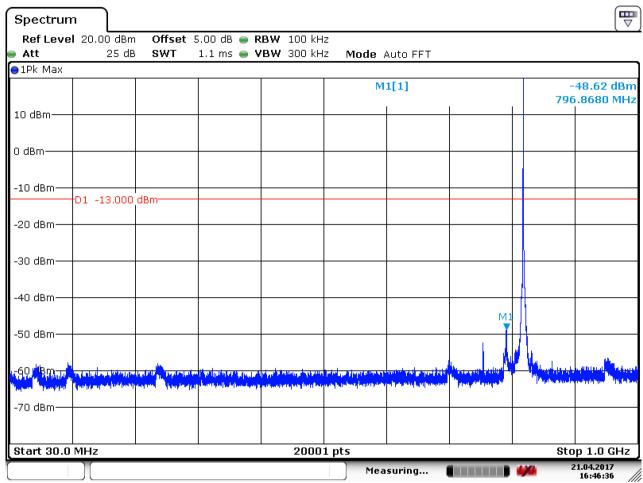
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| Spectrun                | n                   |                           |                                       |                                     |         |                       |                          |                |                       |
|-------------------------|---------------------|---------------------------|---------------------------------------|-------------------------------------|---------|-----------------------|--------------------------|----------------|-----------------------|
|                         | l 20.00 dBn         |                           | 5.00 dB 😑 R                           |                                     |         |                       |                          |                | · · · ·               |
| Att                     | 25 df               | B SWT                     | 27 ms 🖷 V                             | BW 3 MHz                            | Mode Au | ito Sweep             |                          |                |                       |
| ⊖1Pk Max                | 1                   |                           | 1                                     |                                     | 54      | 1[1]                  |                          |                | 31.57 dBm             |
|                         |                     |                           |                                       |                                     | 171     | 1[1]                  |                          |                | 37390 GHz             |
| 10 dBm                  |                     |                           |                                       |                                     |         |                       |                          |                |                       |
| 0 dBm                   |                     |                           |                                       |                                     |         |                       |                          |                |                       |
| -10 dBm—                | -D1 -13,000         | dBm                       |                                       |                                     |         |                       |                          |                |                       |
| -20 dBm—                |                     |                           |                                       |                                     |         |                       |                          |                |                       |
| -30 dBm                 |                     |                           |                                       |                                     |         |                       |                          |                |                       |
| -40 dBm                 |                     |                           |                                       |                                     | h       |                       |                          |                |                       |
|                         |                     | والإسبانية فتراقعهم ويرار | and philiplemetries                   | والاستحابة المسجع                   |         | and the second second |                          |                |                       |
| 50µdBm <mark>ulu</mark> | dennen substitutere | Name of a strike to a     | a a a a a a a a a a a a a a a a a a a | أمط مطولية إيكم الأمر المرابع مسروح |         |                       | a dila a della diretta d |                |                       |
| -60 dBm                 |                     |                           |                                       |                                     |         |                       |                          |                |                       |
| -70 dBm                 |                     |                           |                                       |                                     |         |                       |                          |                |                       |
|                         |                     |                           |                                       |                                     |         |                       |                          |                |                       |
| Start 1.0 C             | GHz                 |                           |                                       | 2000                                | 1 pts   |                       |                          | -              | 10.0 GHz              |
|                         |                     |                           |                                       |                                     | Mea     | suring                |                          | - <b>4/4</b> 2 | 1.04.2017<br>16:45:06 |

Date: 21.APR.2017 16:45:06



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6.1.1.1.3 Test Channel = HCH

Date: 21.APR.2017 16:46:36



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| Spectrun                          | n ]         |              |               |  |                                       |                          |           |   |  | [₩                     |
|-----------------------------------|-------------|--------------|---------------|--|---------------------------------------|--------------------------|-----------|---|--|------------------------|
| Ref Leve<br>Att                   |             | dBm<br>:5 dB | Offset<br>SWT | 5.00 dB 👄 <b>R</b><br>27 ms 👄 <b>V</b>   |                                       | <b>Mode</b> Au           | ito Sweep |   |  |                        |
| ⊖1Pk Max                          |             |              |               |  |                                       |                          | I         |   |  |                        |
|                                   |             |              |               |  |                                       | М                        | 1[1]      | 1 |  | 30.88 dBm<br>45940 GHz |
| 10 dBm                            |             |              |               |  |                                       |                          |           |   |  |                        |
| 0 dBm                             |             |              |               |  |                                       |                          |           |   |  |                        |
| -10 dBm—                          | D1 -13      | .000 d       | dBm           |  |                                       |                          |           |   |  |                        |
| -20 dBm                           |             |              |               |  |                                       |                          |           |   |  |                        |
| -30 dBm                           |             |              |               |  |                                       |                          |           |   |  |                        |
| -40 dBm                           |             |              | a adult fra   | ر<br>میں ایر   | والمتأسرة والمتاريخ والم              | والملاوين أواوله والمراد |           |   |  |                        |
| , z≌QL¢Bm oda<br>accuración de la | ter offered | land and a   |               | The second s | <u>ىيە بەرە مىڭ مەمەرلىق مەرىپەرە</u> |                          |           |   | and the second sec |                        |
| -60 dBm——                         |             |              |               |  |                                       |                          |           |   |  |                        |
| -70 dBm——                         |             |              |               |  |                                       |                          |           |   |  |                        |
| Start 1.0 C                       | Hz          |              |               |  | 2000:                                 | 1 pts                    | ·         |   | Stop   | 10.0 GHz               |
|                                   |             |              |               |  |                                       | Mea                      | suring    |   | 4/4  | 1.04.2017<br>16:45:53  |

Date: 21.APR.2017 16:45:53



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#### 6.1.1.2 Test Mode = LTE / TM1 3MHz RB1#0

#### 6.1.1.2.1 Test Channel = LCH ₩ Spectrum Ref Level 20.00 dBm Offset 5.00 dB 👄 RBW 100 kHz Att 25 dB SWT 1.1 ms 👄 **VBW** 300 kHz Mode Auto FFT ●1Pk Max M1[1] -49.47 dBm 803.1730 MHz 10 dBm-0 dBm--10 dBm-D1 -13.000 dBm -20 dBm--30 dBm--40 dBm-M -50 dBm--60 <mark>48</mark>m----70 dBm-Start 30.0 MHz 20001 pts Stop 1.0 GHz 21.04.2017 Measuring... 16:50:59

Date: 21.APR.2017 16:50:59



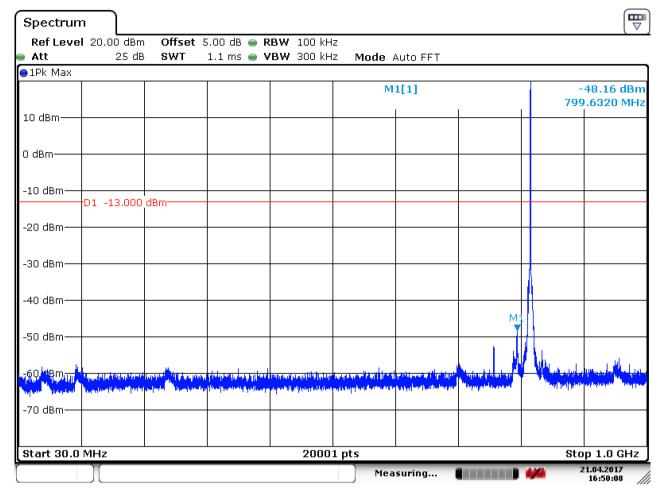
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| Spectrum                    | ιÌ                   |                          |   |                                      |                                |  |                        |                                    |  |
|-----------------------------|----------------------|--------------------------|---|--------------------------------------|--------------------------------|--|------------------------|------------------------------------|--|
| Ref Level<br>Att            | l 20.00 dBm<br>25 dB |                          | 5.00 dB 👄 R   | <b>(BW</b> 1 MHz<br><b>/BW</b> 3 MHz | Banda A.                       |  |                        |                                    |  |
| All<br>1Pk Max              | 25 UB                | 5 <b>5</b> W I           | 27 ms 🔳 🖣   | <b>'BW</b> 3 MH2                     | MOGE AU                        | ito Sweep  |                        |                                    |  |
|                             |                      |                          |   |                                      | М                              | 1[1]   |                        |                                    | 33.19 dBm<br>33790 GHz                   |
| 10 dBm                      |                      |                          |   |                                      |                                |  |                        |                                    |  |
| 0 dBm                       |                      |                          |   |                                      |                                |  |                        |                                    |  |
| -10 dBm—                    | D1 -13.000           | dBm                      |   |                                      |                                |  |                        |                                    |  |
| -20 dBm—                    |                      |                          |   |                                      |                                |  |                        |                                    |  |
| -30 dBM <del>1</del>        |                      |                          |   |                                      |                                |  |                        |                                    |  |
| -40 dBm                     |                      |                          | المرابعة الم | al and the state                     |                                |  |                        |                                    |  |
| ,¦¦SQ₁dBn <mark>r - </mark> |                      | Contraction of posterior |   | tala di Kanada da Katika             | - يتقول كالتر <sub>كيل</sub> ي | l de la companya de | واللعور فعأطيه وموزومه |                                    |  |
| -60 dBm                     |                      |                          |   |                                      |                                | "Thu <sub>per</sub>  |                        | riga a mitti ann an faoil a bhlia. | an a |
| -70 dBm                     |                      |                          |   |                                      |                                |  |                        |                                    |  |
| Start 1.0 G                 | Hz                   |                          |   | 2000                                 | 1 pts                          |  |                        | <br>Ston                           | 10.0 GHz                                 |
| [                           | )[                   |                          |   |                                      |                                | suring   |                        | -                                  | 1010 0112<br>1.04.2017<br>16:51:31       |

Date: 21.APR.2017 16:51:32



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#### 6.1.1.2.2 Test Channel = MCH

Date: 21.APR.2017 16:50:08



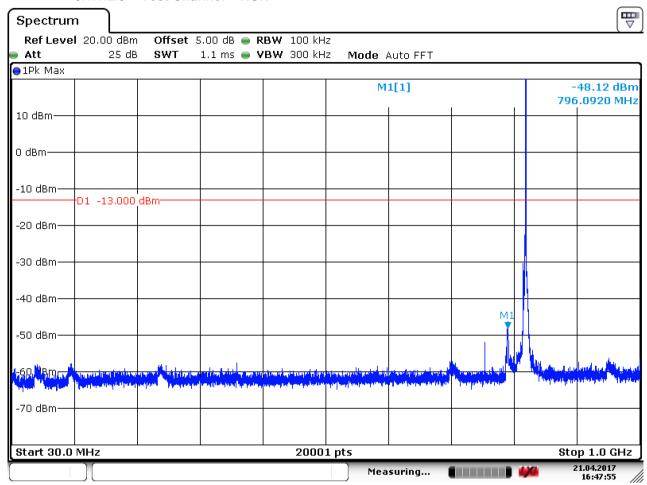
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| Spectrun                              | n       |             |   |   |          |                             |           |   |        |  |
|---------------------------------------|---------|-------------|---|---|----------|-----------------------------|-----------|---|--------|--|
| Ref Leve                              |         |             |   | 5.00 dB 🥃 F                                 |          | _                           |           |   |        |  |
| Att<br>1Pk Max                        | 2       | 5 dB        | SWT   | 27 ms 🖷 🛾                                   | BW 3 MHz | Mode Au                     | ito Sweep |   |        |  |
| UPK Max                               |         |             |   |   |          | M                           | 1[1]      |   |        | 31.52 dBm  |
|                                       |         |             |   |   |          |                             | 1[1]      |   |        | 40540 GHz  |
| 10 dBm                                |         |             |   |   |          |                             |           |   |        |  |
| 0 dBm——                               |         |             |   |   |          |                             |           |   |        |  |
| -10 dBm—                              | -D1 -13 | 000 (       |   |   |          |                             |           |   |        |  |
| -20 dBm—                              |         |             |   |   |          |                             |           |   |        |  |
| -30 dBn                               |         |             |   |   |          |                             |           |   |        |  |
| -40 dBm                               |         |             |   |   |          |                             |           |   |        |  |
| <sub>in</sub> 50.d8mmbb               |         | ماراسا      |   | المراجع ال <sup>اس</sup> ان المراجع المراجع |          | All and a specific strength |           |   |        |  |
| a been directed by a second shifts by |         | June of the | and a state of the second s |   |          |                             |           |   |        | and the second s |
| -60 dBm—                              |         |             |   |   |          |                             |           |   |        |  |
| -70 dBm—                              |         |             |   |   |          |                             |           |   |        |  |
|                                       |         |             |   |   |          |                             |           |   |        |  |
| Start 1.0 (                           | GHz     |             |   | 1   | 2000     | 1 pts                       | ·         | 1 | Stop   | 10.0 GHz   |
|                                       |         |             |   |   |          | Mea                         | suring    |   | 2<br>2 | 1.04.2017<br>16:49:29  |

Date: 21.APR.2017 16:49:30



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6.1.1.2.3 Test Channel = HCH

Date: 21.APR.2017 16:47:56



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| Spectrun                                   | n )  |                              |                               |  |   |  |  |                              |                          |
|--|--|------------------------------|-------------------------------|--|---|--|--|------------------------------|--------------------------|
| Ref Leve<br>Att                            | l 20.00 dBm<br>25 dB   |                              | 5.00 dB 👄 R                   |  | na-d- A.  |  |  |                              |                          |
| All<br>1Pk Max                             | 25 UE  | 5 8 1                        | 27 ms 🔲 ¥                     | BW 3 MHz   | MODE AL   | ito Sweep  |  |                              |                          |
|  |  |                              |                               |  | М   | 1[1]   |  |                              | 31.02 dBm<br>47740 GHz   |
| 10 dBm                                     |  |                              |                               |  |   |  |  |                              |                          |
| 0 dBm                                      |  |                              |                               |  |   |  |  |                              |                          |
| -10 dBm—                                   | D1 -13.000   | dBm                          |                               |  |   |  |  |                              |                          |
| -20 dBm—                                   |  |                              |                               |  |   |  |  |                              |                          |
| -30 dBm                                    |  |                              |                               |  |   |  |  |                              |                          |
| -40 dBm                                    |  |                              | و منه و منه و الم             |  | و و المحلفة الم |  |  |                              |                          |
| " <sub>7</sub> 50,d8m-44                   | the last section of the la | الأولية المرابعة بالرابي وال | The state of the state of the | And the second sec | - Andrewski (Barrison (Barrison))   | ( and a second sec | e di te a contribue a colorita   | والمعالة بالمعالية           | a la contra da contra da |
| In a control of the set of a local data of |  |                              |                               |  |   |  | and the second state of th | and the second second second | and the same stress of   |
| -60 dBm—                                   |  |                              |                               |  |   |  |  |                              |                          |
| -70 dBm—                                   |  |                              |                               |  |   |  |  |                              |                          |
| Start 1.0 (                                | <br>GHz  |                              |                               | 2000   | 1 pts   |  |  | Stop                         | 10.0 GHz                 |
|  |  |                              |                               |  |   | suring   |  |                              | 21.04.2017<br>16:48:40   |

Date: 21.APR.2017 16:48:39



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#### 6.1.1.3 Test Mode = LTE / TM1 5MHz RB1#0

#### 6.1.1.3.1 Test Channel = LCH ₩ Spectrum Ref Level 20.00 dBm Offset 5.00 dB 👄 RBW 100 kHz Att 25 dB SWT 1.1 ms 👄 **VBW** 300 kHz Mode Auto FFT ●1Pk Max M1[1] -50.01 dBm 796.8190 MHz 10 dBm-0 dBm--10 dBm-D1 -13.000 dBm -20 dBm--30 dBm--40 dBm-M -50 dBm-الم ( الألم -60 Sm--70 dBm-Start 30.0 MHz 20001 pts Stop 1.0 GHz 21.04.2017 Measuring... 16:57:18

Date: 21.APR.2017 16:57:18



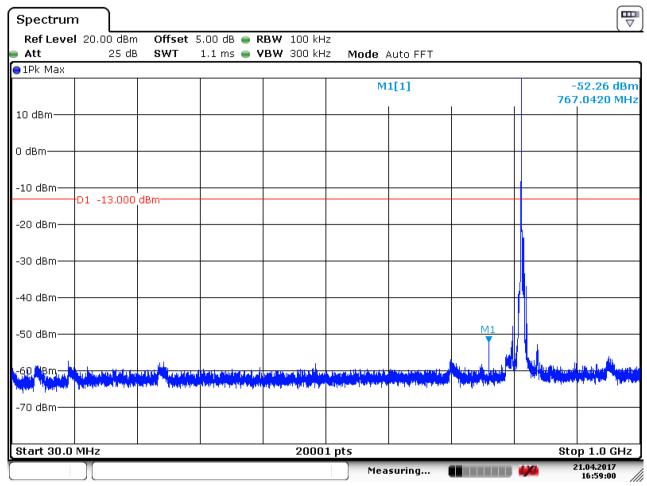
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| Spectrun    | n  |                    |  |  |         |  |   | (₩         |
|-------------|--|--------------------|--|--|---------|--|---|------------|
|             | l 20.00 dBm  |                    | 5.00 dB 😑 R  |  |         |  |   |            |
| Att         | 25 dE  | B SWT              | 27 ms 👄 V  | BW 3 MHz   | Mode Au | ito Sweep  |   |            |
| ⊖1Pk Max    |  |                    |  |  |         | 1[1]   |   | 33.08 dBm  |
|             |  |                    |  |  | IVI     | 1[1]   |   | 28840 GHz  |
| 10 dBm      |  |                    |  |  |         |  |   |            |
| 0 dBm       |  |                    |  |  |         |  |   |            |
| -10 dBm—    | -D1 -13.000  | dBm                |  |  |         |  |   |            |
| -20 dBm—    | 10.000   |                    |  |  |         |  |   |            |
| -30 dBM     |  |                    |  |  |         |  |   |            |
| -40 dBm —   |  |                    |  |  |         |  |   |            |
|             |  | ويتعادرون والمراجع | and the second sec   | مراها فيعامل إني   |         |  |   |            |
| -50 of Berl | Harrison and the first second side in the first second second second second second second second second second |                    | and the second state of th | and the second |         | Thur and the second sec |   |            |
| -60 dBm—    |  |                    |  |  |         |  |   |            |
|             |  |                    |  |  |         |  |   |            |
| -70 dBm—    |  |                    |  |  |         |  |   |            |
| Start 1.0 ( | <br>GHz  |                    |  | 2000   | 1 pts   |  |   | 10.0 GHz   |
| (           | Υ  |                    |  | 2000   |         | suring   | - | 21.04.2017 |
|             |  |                    |  |  |         |  |   | 16:54:11   |

Date: 21.APR.2017 16:54:11



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#### 6.1.1.3.2 Test Channel = MCH

Date: 21.APR.2017 16:59:01



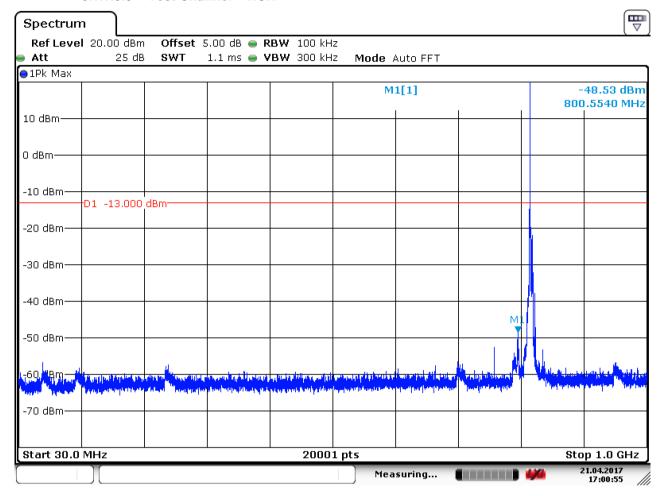
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| Spectrun         | n )         |                              |                          |                                |  |   |                                     |                        |   |
|------------------|-------------|------------------------------|--------------------------|--------------------------------|--|---|-------------------------------------|------------------------|---|
|                  | l 20.00 dBm |                              | 5.00 dB 👄 R              |                                |  |   |                                     |                        |   |
| Att<br>1Pk Max   | 25 dE       | SWT                          | 27 ms 🖷 🎙                | BW 3 MHz                       | Mode Au  | ito Sweep   |                                     |                        |   |
|                  |             |                              |                          |                                | М  | 1[1]  |                                     | -                      | 32.05 dBm   |
|                  |             |                              |                          |                                |  |   | 1                                   |                        | 33790 GHz   |
| 10 dBm——         |             |                              |                          |                                |  |   |                                     |                        |   |
|                  |             |                              |                          |                                |  |   |                                     |                        |   |
| 0 dBm——          |             |                              |                          |                                |  |   |                                     |                        |   |
| -10 dBm—         |             |                              |                          |                                |  |   |                                     |                        |   |
| -10 übiii        | D1 -13.000  | dBm                          |                          |                                |  |   |                                     |                        |   |
| -20 dBm          |             |                              |                          |                                |  |   |                                     |                        |   |
|                  |             |                              |                          |                                |  |   |                                     |                        |   |
| -30 dBM          |             |                              |                          |                                |  |   |                                     |                        |   |
|                  |             |                              |                          |                                |  |   |                                     |                        |   |
| -40 dBm—         |             |                              |                          |                                |  |   |                                     |                        |   |
|                  |             | a second difference          | المعاراه والعرابين فرران | ويسلعونه والالتقريق والم       | ا<br>مواليول المألية والمروان<br>ومساوير بالمساوين | Control of |                                     |                        |   |
| urso Helmann     |             | August and a strength of the |                          | and the second find the second | A CONTRACTOR OF CONTRACTOR                         |   | وحالك الأوصيي أاحا                  | and the second state   | and the local products of the second  |
| C-DARAGE COMPANY |             |                              |                          |                                |  |   | a debugan di benar faran katel<br>I | (patricts applied to a | and the second se |
| -60 dBm          |             |                              |                          |                                |  |   |                                     |                        |   |
| 70 40            |             |                              |                          |                                |  |   |                                     |                        |   |
| -70 dBm—         |             |                              |                          |                                |  |   |                                     |                        |   |
|                  |             |                              |                          |                                |  |   |                                     |                        |   |
| Start 1.0 C      | GHz         |                              |                          | 2000                           | 1 pts  |   |                                     | -                      | 10.0 GHz  |
|                  |             |                              |                          |                                | Mea  | suring  |                                     | - <b>4/4</b> 2         | 21.04.2017<br>16:59:32  |

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#### 6.1.1.3.3 Test Channel = HCH

Date: 21.APR.2017 17:00:55



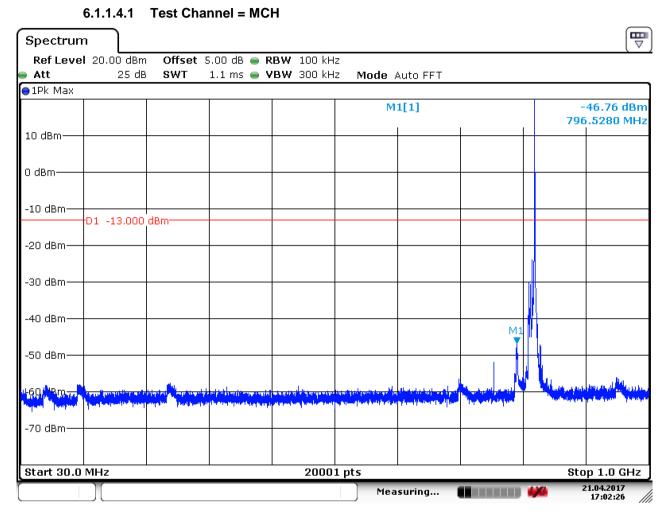
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| Spectrun                   | n        |                           |                |                      |   |  |                  |   |                                    | [₩                           |
|----------------------------|----------|---------------------------|----------------|----------------------|---|--|------------------|---|------------------------------------|------------------------------|
| Ref Leve                   |          |                           |                | 5.00 dB 😑 I          |   |  |                  |   |                                    |                              |
| Att                        | 2        | 25 dB                     | SWT            | 27 ms 😑 🛚            | /BW 3 MHz   | Mode Au  | ito Sweep        |   |                                    |                              |
| ⊖1Pk Max                   | 1        |                           |                | 1                    | 1   | 1  |                  |   |                                    |                              |
|                            |          |                           |                |                      |   | M  | 1[1]             |   |                                    | 31.21 dBm                    |
| 10 dBm                     |          |                           |                |                      |   |  |                  |   | 1.6                                | 38740 GHz                    |
| 0 dBm                      |          |                           |                |                      |   |  |                  |   |                                    |                              |
| -10 dBm                    | D1 -13   | 2 000                     | dBm            |                      |   |  |                  |   |                                    |                              |
| -20 dBm—                   |          |                           |                |                      |   |  |                  |   |                                    |                              |
| -30 dBm                    |          |                           |                |                      |   |  |                  |   |                                    |                              |
| -40 dBm                    |          |                           |                |                      |   |  |                  |   |                                    |                              |
|                            |          |                           | a ta kantina a | and the discourse of | المرابع المحمد مريد   |  |                  |   |                                    |                              |
| <sup>™⊉</sup> Ö™dBromer    |          | اردیا کیا ہے۔<br>راب پیشن |                | ·                    | د د به به به به ک <sup>ر</sup> ان است. <sub>مورو</sub> به کران است.<br>مراجع است | a state in the second | Leading and Lead |   | United in such as the first of the | and and a shirt shirt shirts |
| (1997) and a second second |          |                           |                |                      |   |  |                  | a de la companya de l | Louis Colorado (1997) has          | 1 Chippen Advance            |
| -60 dBm—                   |          |                           |                |                      |   |  |                  |   |                                    |                              |
| -70 dBm—                   |          |                           |                |                      |   |  |                  |   |                                    |                              |
|                            |          |                           |                |                      |   |  |                  |   |                                    |                              |
| Start 1.0 C                | l<br>GHz |                           |                |                      | 2000  | 1 pts  | 1                | 1   | Stop                               | 10.0 GHz                     |
| (                          |          |                           |                |                      |   | Mea  | suring           |   | <b>4/4</b> 2                       | 21.04.2017<br>17:00:17       |

Date: 21.APR.2017 17:00:17



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6.1.1.4 Test Mode = LTE / TM1 10MHz RB1#0

Date: 21.APR.2017 17:02:26



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| Spectrun   | n ]      |                        |                            |   |   |                |                              |       |  |
|--|----------|------------------------|----------------------------|---|---|----------------|------------------------------|-------|--|
| Ref Leve<br>Att  |          | dBm Offset<br>5 dB SWT | : 5.00 dB 👄 F              |   | <b>11</b> - <b>1</b> - <b></b> |                |                              |       |  |
| All<br>1Pk Max   | 25       | ub SWI                 | 27 ms 🔳 🕯                  | BW 3 MHz                                | MOGE AU   | ito Sweep      |                              |       |  |
|  |          |                        |                            |   | М   | 1[1]           |                              |       | 30.12 dBm<br>46840 GHz   |
| 10 dBm   |          |                        |                            |   |   |                |                              |       |  |
| 0 dBm  |          |                        |                            |   |   |                |                              |       |  |
| -10 dBm—   | D1 -13.0 | 000 dBm                |                            |   |   |                |                              |       |  |
| -20 dBm—   |          |                        |                            |   |   |                |                              |       |  |
| -30 dBm  |          |                        |                            |   |   |                |                              |       |  |
| -40 dBm  |          |                        |                            |   | دفاليول والقصى ال   | ىلىم ھ يارلى ، |                              |       |  |
| un≣Ωld®molecti   |          | LAND REPORT OF A       | and the state of the state | n an an Anna Anna Anna Anna Anna Anna A |   |                |                              |       |  |
| And the second |          |                        |                            |   |   |                | an internetien eine hereiten |       | a di di di da paga da p<br>Na seconda paga da paga |
| -60 dBm—   |          |                        |                            |   |   |                |                              |       |  |
| -70 dBm—   |          |                        |                            |   |   |                |                              |       |  |
| Start 1.0 (  | <br>GHz  |                        |                            | 2000                                    | 1 pts   |                |                              | Stop  | 10.0 GHz   |
|  |          |                        |                            |   | Mea   | suring         |                              | · 🦗 2 | 21.04.2017<br>17:03:33   |

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#### 7 Field Strength of Spurious Radiation

#### 7.1 For LTE

#### 7.1.1 Test Band = LTE band26(814-824)

#### 7.1.1.1 Test Mode =LTE/TM1 10MHz RB1#0

| 7.1.1.1.1       | Test Channel = MC | <u>CH</u>        |                 |              |
|-----------------|-------------------|------------------|-----------------|--------------|
| Frequency (MHz) | Level (dBm)       | Limit Line (dBm) | Over Limit (dB) | Polarization |
| 2366.500000     | -54.43            | -13.00           | 45.47           | Vertical     |
| 3475.000000     | -66.25            | -13.00           | 55.45           | Vertical     |
| 5925.000000     | -68.35            | -13.00           | 54.02           | Vertical     |
| 1652.000000     | -58.94            | -13.00           | 53.44           | Horizontal   |
| 2312.500000     | -63.06            | -13.00           | 49.19           | Horizontal   |
| 5476.000000     | -64.48            | -13.00           | 44.30           | Horizontal   |

#### NOTE:

1) All modes are tested, but the data presented above is the worst case. the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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#### 8 Frequency Stability

#### 8.1 Frequency Error VS. Voltage

| Test Band | Test Mode     | Test<br>Channel | Test<br>Temp. | Test<br>Volt. | Freq. Error<br>[Hz] | Freq. vs.<br>rated [ppm] | Verdict |
|-----------|---------------|-----------------|---------------|---------------|---------------------|--------------------------|---------|
|           |               |                 |               | VL            | -3.48               | -0.00425                 | PASS    |
|           | LTE/TM1 10MHz | MCH             | TN            | VN            | -2.30               | -0.00281                 | PASS    |
| LTEband26 |               |                 |               | VH            | -5.76               | -0.00703                 | PASS    |
| (814-824) |               |                 |               | VL            | 1.10                | 0.00134                  | PASS    |
|           | LTE/TM2 10MHz | MCH             | ΤN            | VN            | -2.24               | -0.00274                 | PASS    |
|           |               |                 |               | VH            | -4.13               | -0.00504                 | PASS    |

#### 8.2 Frequency Error VS. Temperature

| Test Band               | Test Mode     | Test<br>Channel | Test<br>Volt. | Test<br>Temp. | Freq.<br>Error<br>[Hz] | Freq. vs.<br>rated [ppm] | Verdict |
|-------------------------|---------------|-----------------|---------------|---------------|------------------------|--------------------------|---------|
| LTE band26<br>(814-824) | LTE/TM1 10MHz | МСН             | VN            | -30           | -4.34                  | -0.00530                 | PASS    |
|                         |               |                 |               | -20           | -2.38                  | -0.00291                 | PASS    |
|                         |               |                 |               | -10           | -1.77                  | -0.00216                 | PASS    |
|                         |               |                 |               | 0             | 1.20                   | 0.00147                  | PASS    |
|                         |               |                 |               | 10            | 2.20                   | 0.00269                  | PASS    |
|                         |               |                 |               | 20            | 4.59                   | 0.00560                  | PASS    |
|                         |               |                 |               | 30            | -1.62                  | -0.00198                 | PASS    |
|                         |               |                 |               | 40            | -2.70                  | -0.00330                 | PASS    |
|                         |               |                 |               | 50            | -4.01                  | -0.00490                 | PASS    |
|                         | LTE/TM2 10MHz | МСН             | VN            | -30           | -5.44                  | -0.00664                 | PASS    |
|                         |               |                 |               | -20           | -3.20                  | -0.00391                 | PASS    |
|                         |               |                 |               | -10           | -2.42                  | -0.00295                 | PASS    |
|                         |               |                 |               | 0             | -1.55                  | -0.00189                 | PASS    |
|                         |               |                 |               | 10            | -2.24                  | -0.00274                 | PASS    |
|                         |               |                 |               | 20            | -1.89                  | -0.00231                 | PASS    |
|                         |               |                 |               | 30            | -3.09                  | -0.00377                 | PASS    |
|                         |               |                 |               | 40            | -4.88                  | -0.00596                 | PASS    |
|                         |               |                 |               | 50            | -7.42                  | -0.00906                 | PASS    |

#### The End