



## 5.1.1.2.4.2.2 Test RB = RB1#49





## 5.1.1.2.4.2.3 Test RB = RB25#13





## 5.1.1.2.4.2.4 Test RB = RB50#0



### 5.1.1.2.5 Test Bandwidth = 15

#### 5.1.1.2.5.1 Test Channel = LCH

##### 5.1.1.2.5.1.1 Test RB = RB1#0





## 5.1.1.2.5.1.2 Test RB = RB1#74





## 5.1.1.2.5.1.3 Test RB = RB38#19







## 5.1.1.2.5.1.4 Test RB = RB75#0





## 5.1.1.2.5.2 Test Channel = HCH

## 5.1.1.2.5.2.1 Test RB = RB1#0







## 5.1.1.2.5.2.2 Test RB = RB1#74





## 5.1.1.2.5.2.3 Test RB = RB38#19





## 5.1.1.2.5.2.4 Test RB = RB75#0



### 5.1.1.2.6 Test Bandwidth = 20

#### 5.1.1.2.6.1 Test Channel = LCH

##### 5.1.1.2.6.1.1 Test RB = RB1#0





## 5.1.1.2.6.1.2 Test RB = RB1#99





## 5.1.1.2.6.1.3 Test RB = RB50#25







## 5.1.1.2.6.1.4 Test RB = RB100#0





## 5.1.1.2.6.2 Test Channel = HCH

## 5.1.1.2.6.2.1 Test RB = RB1#0





## 5.1.1.2.6.2.2 Test RB = RB1#99





## 5.1.1.2.6.2.3 Test RB = RB50#25





## 5.1.1.2.6.2.4 Test RB = RB100#0



## 6Appendix\_F: 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 = BAND4

##### 6.1.1.1 Test Mode = LTE/TM1

##### 6.1.1.1.1 Test Bandwidth = 1.4

##### 6.1.1.1.1.1 Test Channel = LCH

##### 6.1.1.1.1.1.1 Test RB = RB1#0



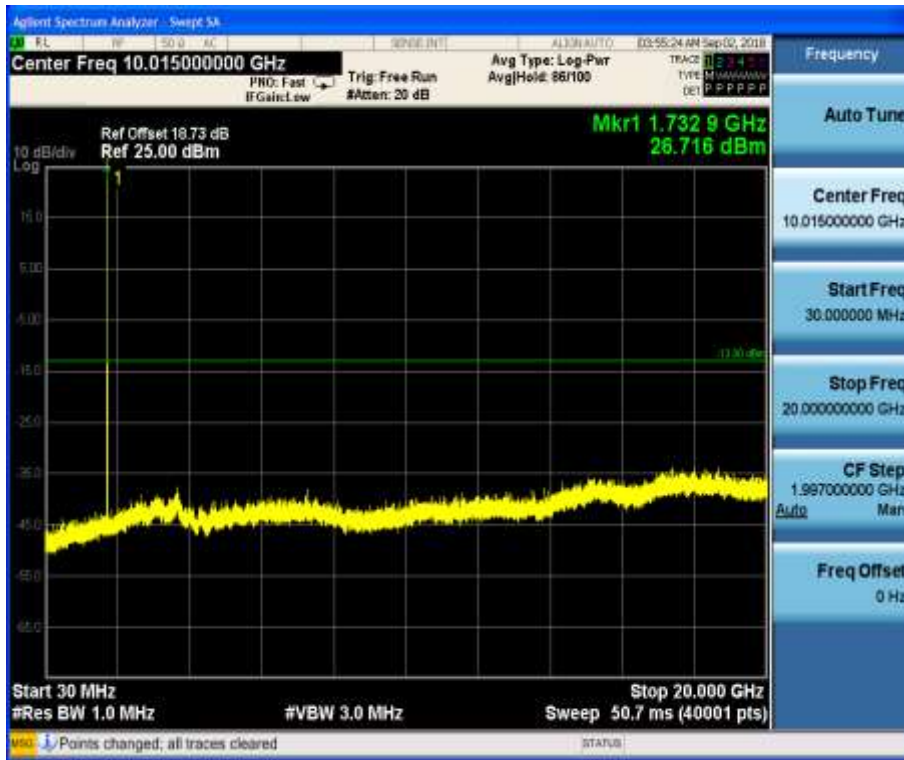




### 6.1.1.1.1.2 Test Channel = MCH

#### 6.1.1.1.1.2.1 Test RB = RB1#0





### 6.1.1.1.1.3 Test Channel = HCH

#### 6.1.1.1.1.3.1 Test RB = RB1#0







### 6.2.1.1.2 Test Bandwidth = 3

#### 6.2.1.1.2.1 Test Channel = LCH

##### 6.2.1.1.2.1.1 Test RB = RB1#0









## 6.2.1.1.2.2 Test Channel = MCH

## 6.2.1.1.2.2.1 Test RB = RB1#0

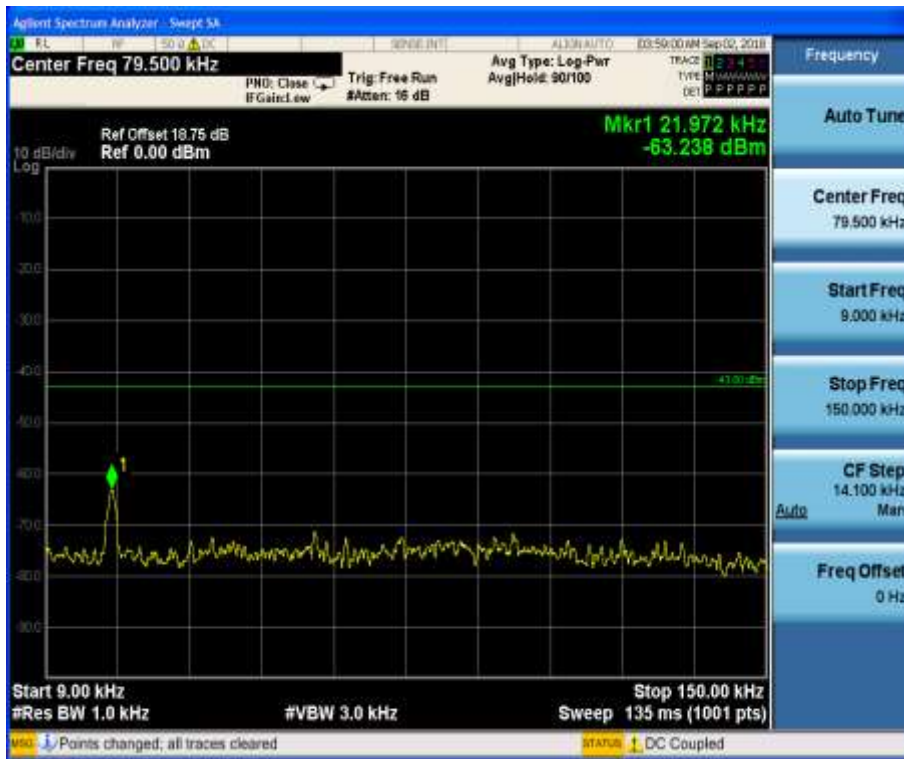






## 6.2.1.1.2.3 Test Channel = HCH

## 6.2.1.1.2.3.1 Test RB = RB1#0





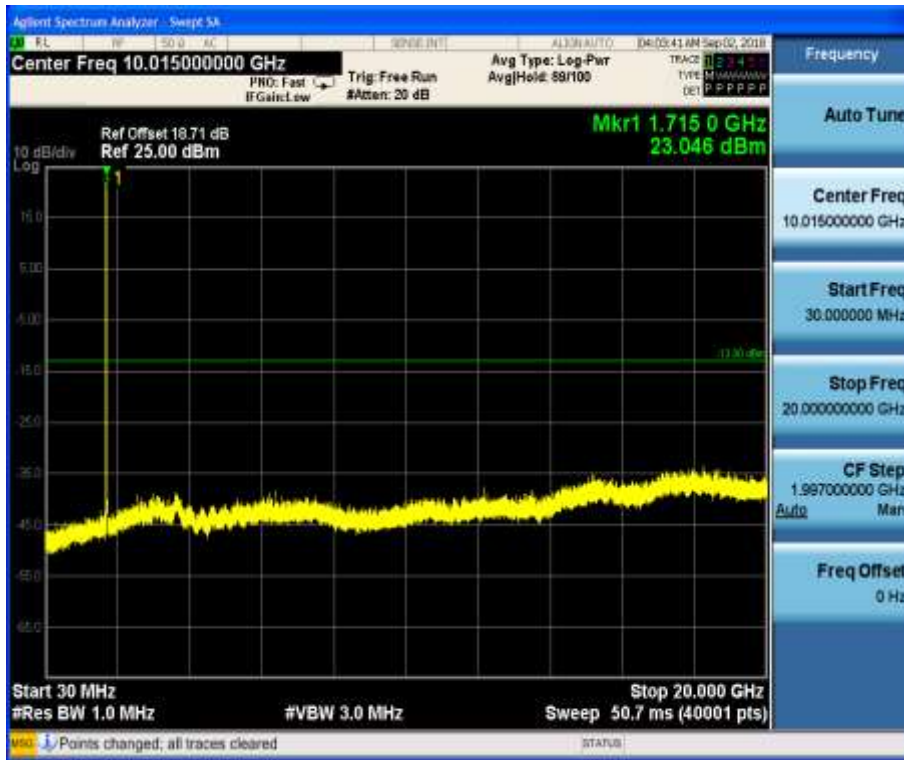
### 6.2.1.1.3 Test Bandwidth = 5

#### 6.2.1.1.3.1 Test Channel = LCH

##### 6.2.1.1.3.1.1 Test RB = RB1#0



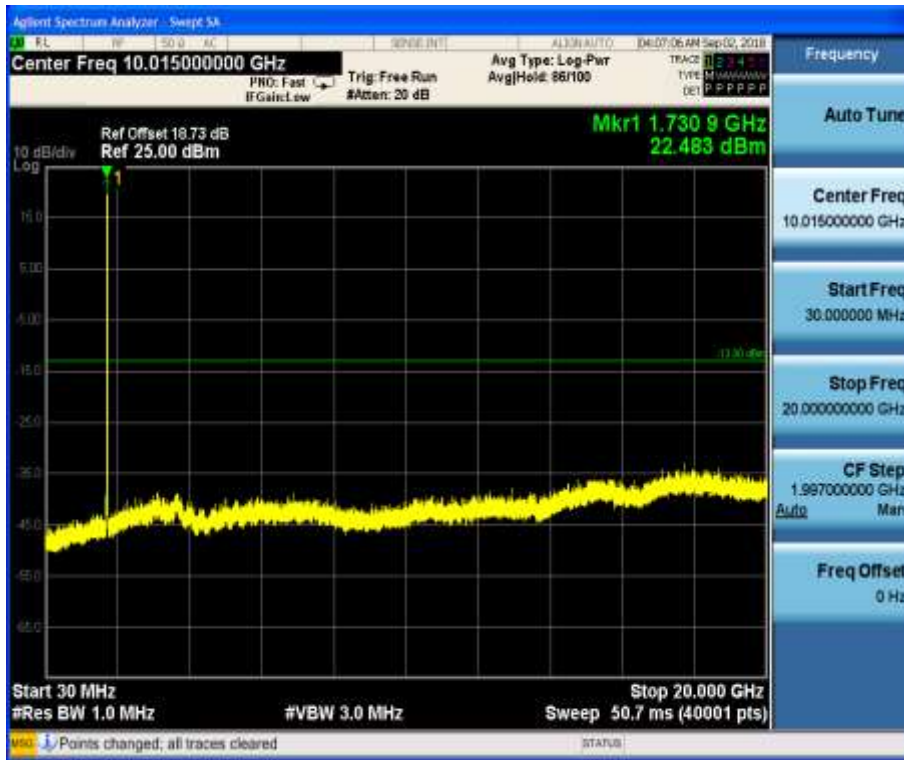




### 6.2.1.1.3.2 Test Channel = MCH

#### 6.2.1.1.3.2.1 Test RB = RB1#0





### 6.2.1.1.3.3 Test Channel = HCH

#### 6.2.1.1.3.3.1 Test RB = RB1#0







## 6.2.1.1.4 Test Bandwidth = 10

## 6.2.1.1.4.1 Test Channel = LCH

## 6.2.1.1.4.1.1 Test RB = RB1#0





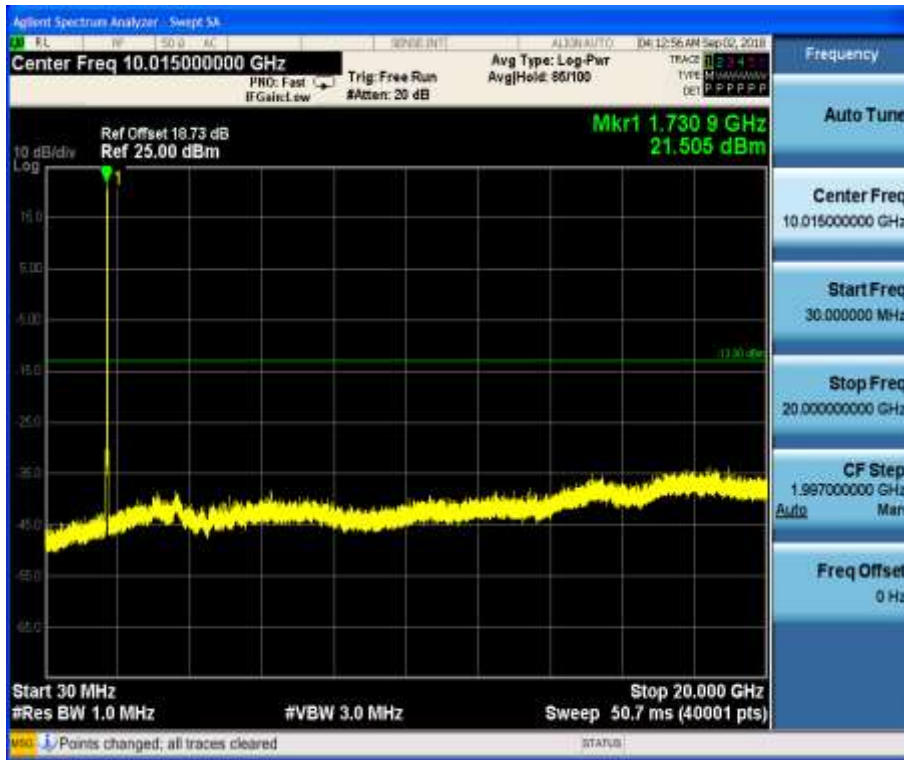




## 6.2.1.1.4.2 Test Channel = MCH

## 6.2.1.1.4.2.1 Test RB = RB1#0

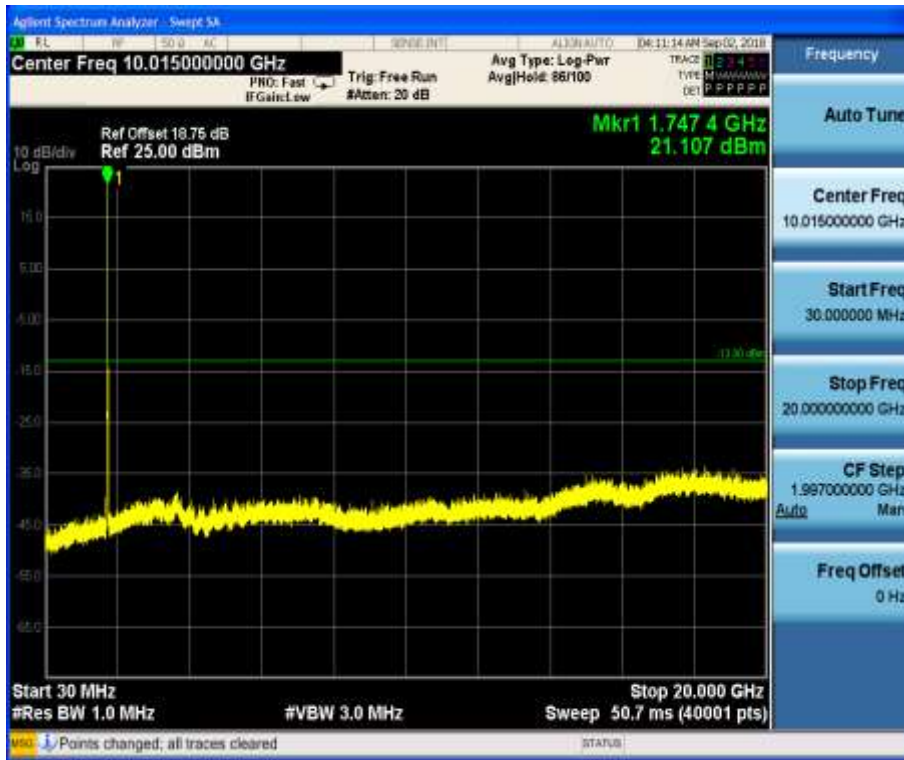




### 6.2.1.1.4.3 Test Channel = HCH

#### 6.2.1.1.4.3.1 Test RB = RB1#0







## 6.2.1.1.5 Test Bandwidth = 15

## 6.2.1.1.5.1 Test Channel = LCH

## 6.2.1.1.5.1.1 Test RB = RB1#0





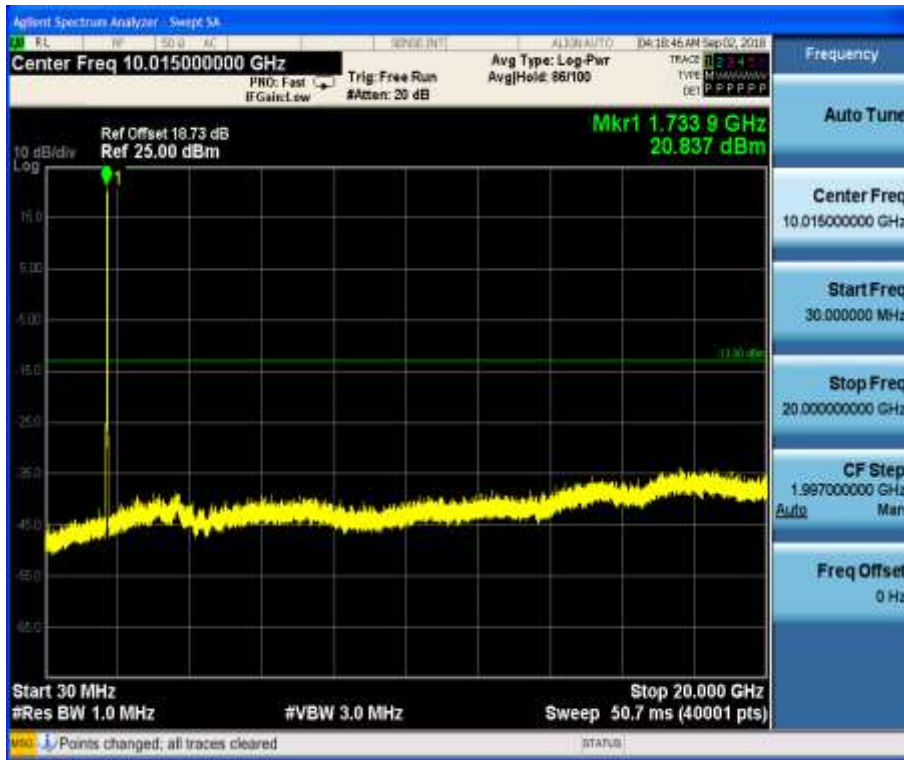




## 6.2.1.1.5.2 Test Channel = MCH

## 6.2.1.1.5.2.1 Test RB = RB1#0

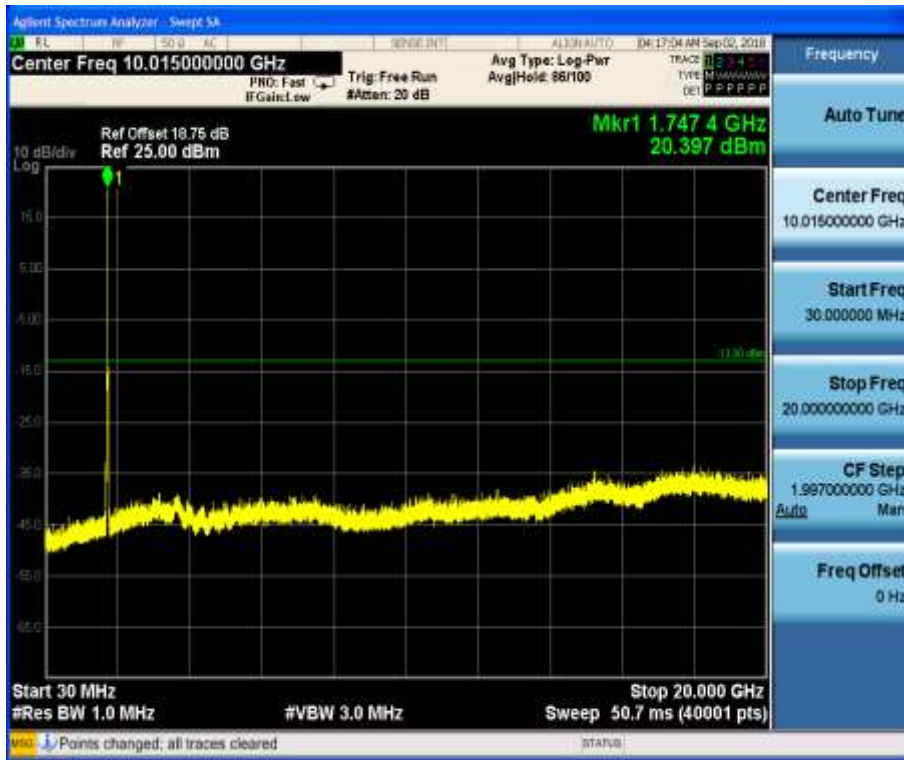




### 6.2.1.1.5.3 Test Channel = HCH

#### 6.2.1.1.5.3.1 Test RB = RB1#0





### 6.2.1.1.6 Test Bandwidth = 20

#### 6.2.1.1.6.1 Test Channel = LCH

##### 6.2.1.1.6.1.1 Test RB = RB1#0









## 6.2.1.1.6.2 Test Channel = MCH

## 6.2.1.1.6.2.1 Test RB = RB1#0

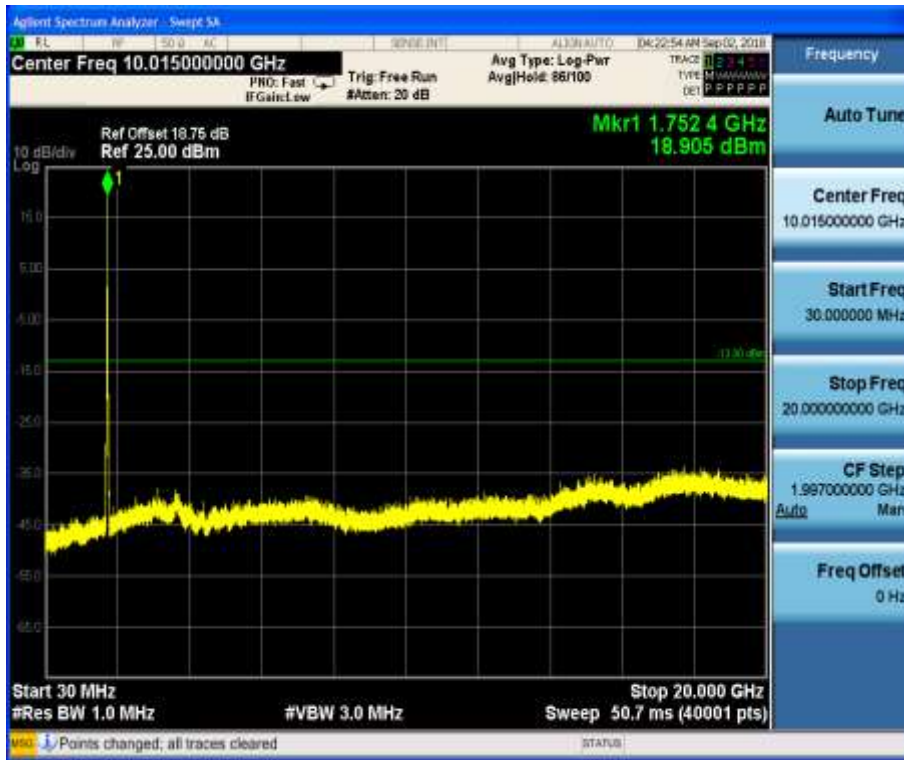




### 6.2.1.1.6.3 Test Channel = HCH

#### 6.2.1.1.6.3.1 Test RB = RB1#0







## 6.2.1.2 Test Mode = LTE/TM2

### 6.2.1.2.1 Test Bandwidth = 1.4

#### 6.2.1.2.1.1 Test Channel = LCH

##### 6.2.1.2.1.1.1 Test RB = RB1#0



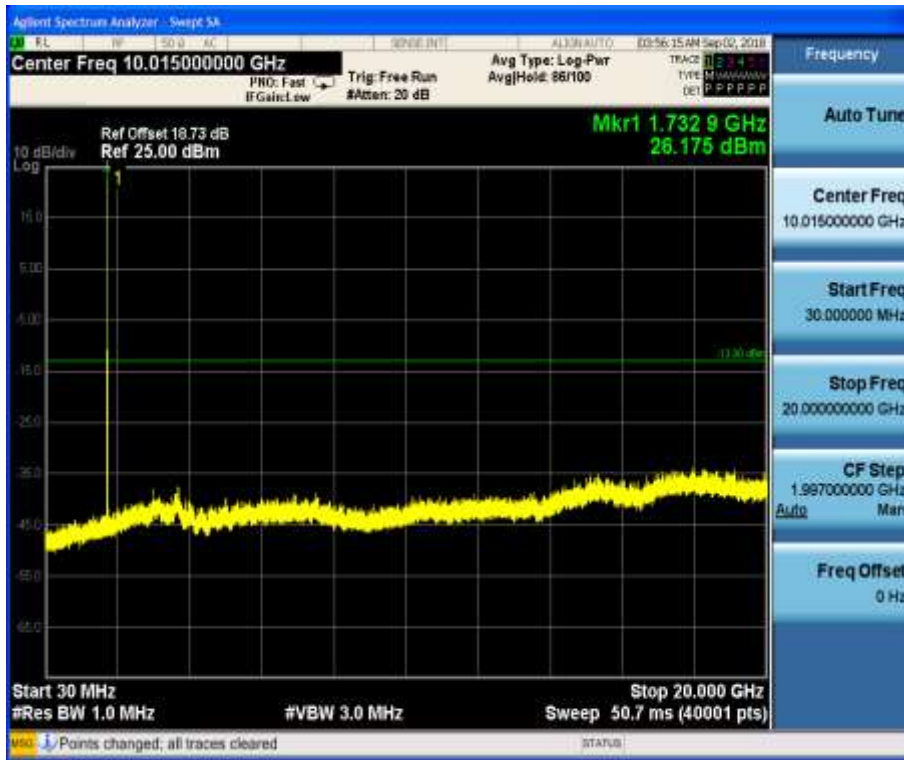




### 6.2.1.2.1.2 Test Channel = MCH

#### 6.2.1.2.1.2.1 Test RB = RB1#0







## 6.2.1.2.1.3 Test Channel = HCH

## 6.2.1.2.1.3.1 Test RB = RB1#0







### 6.2.1.2.2 Test Bandwidth = 3

#### 6.2.1.2.2.1 Test Channel = LCH

##### 6.2.1.2.2.1.1 Test RB = RB1#0







### 6.2.1.2.2.2 Test Channel = MCH

#### 6.2.1.2.2.2.1 Test RB = RB1#0



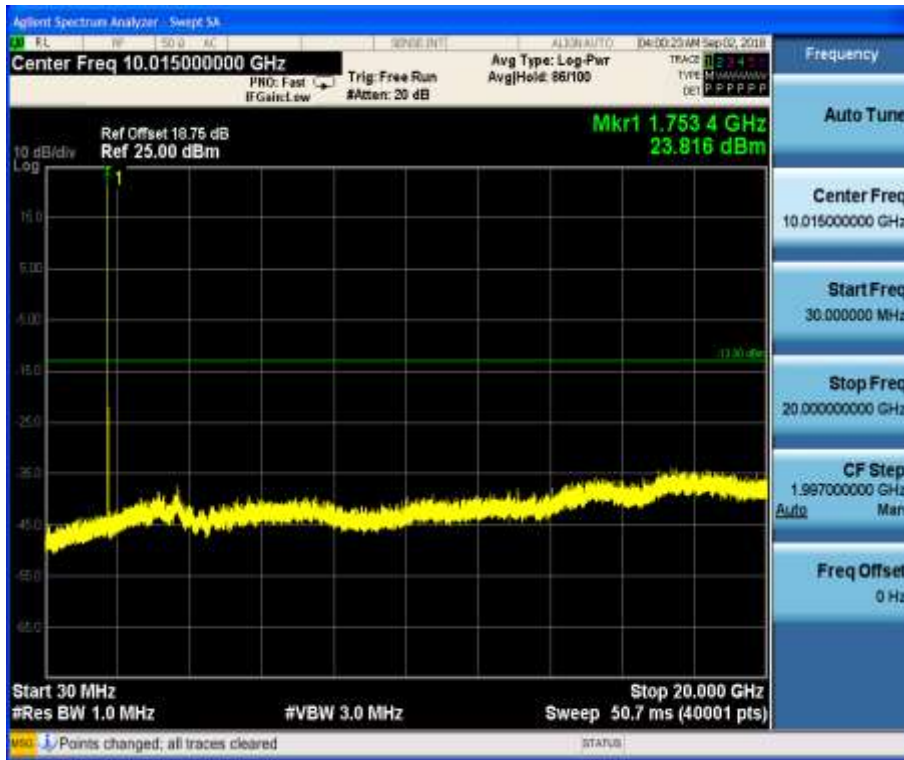




## 6.2.1.2.2.3 Test Channel = HCH

## 6.2.1.2.2.3.1 Test RB = RB1#0





### 6.2.1.2.3 Test Bandwidth = 5

#### 6.2.1.2.3.1 Test Channel = LCH

##### 6.2.1.2.3.1.1 Test RB = RB1#0



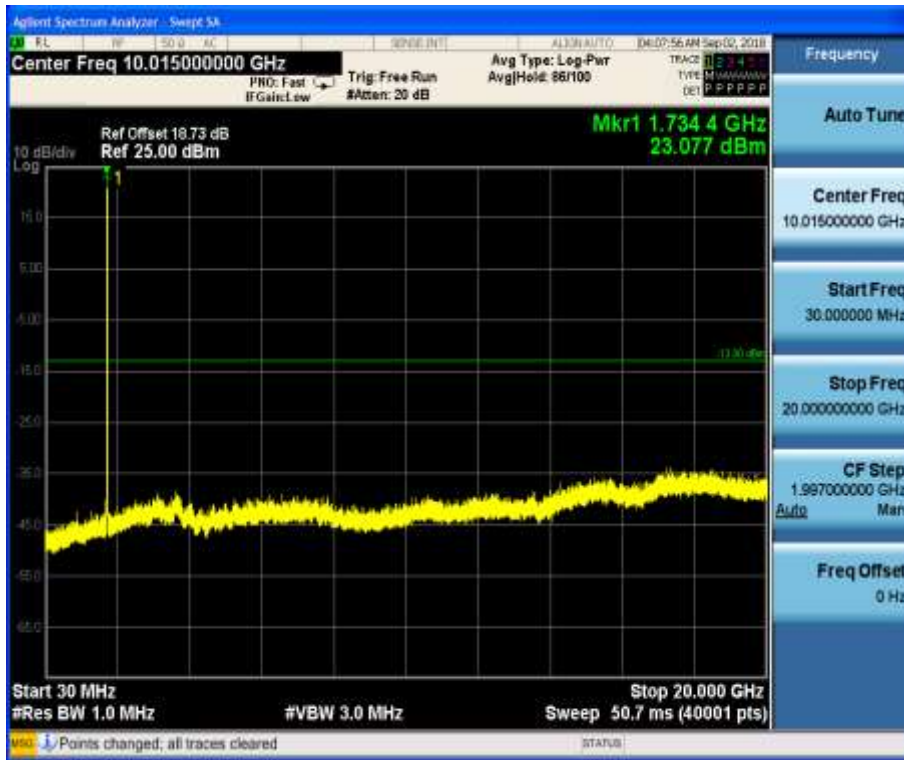




### 6.2.1.2.3.2 Test Channel = MCH

#### 6.2.1.2.3.2.1 Test RB = RB1#0





### 6.2.1.2.3.3 Test Channel = HCH

#### 6.2.1.2.3.3.1 Test RB = RB1#0





#### 6.2.1.2.4 Test Bandwidth = 10

##### 6.2.1.2.4.1 Test Channel = LCH

##### 6.2.1.2.4.1.1 Test RB = RB1#0









## 6.2.1.2.4.2 Test Channel = MCH

## 6.2.1.2.4.2.1 Test RB = RB1#0

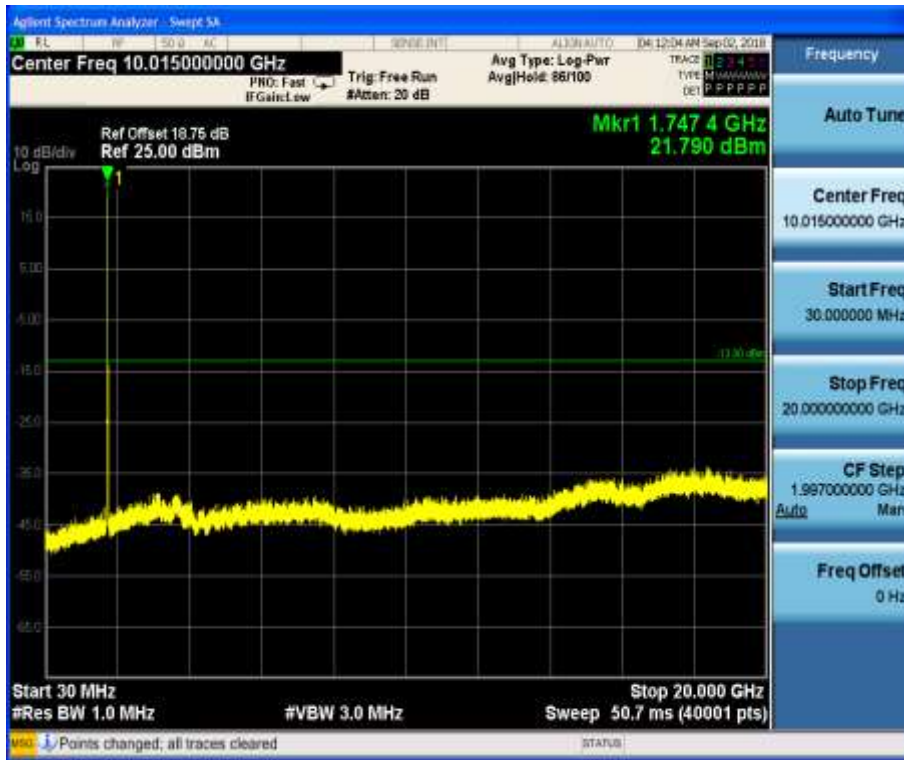




### 6.2.1.2.4.3 Test Channel = HCH

#### 6.2.1.2.4.3.1 Test RB = RB1#0





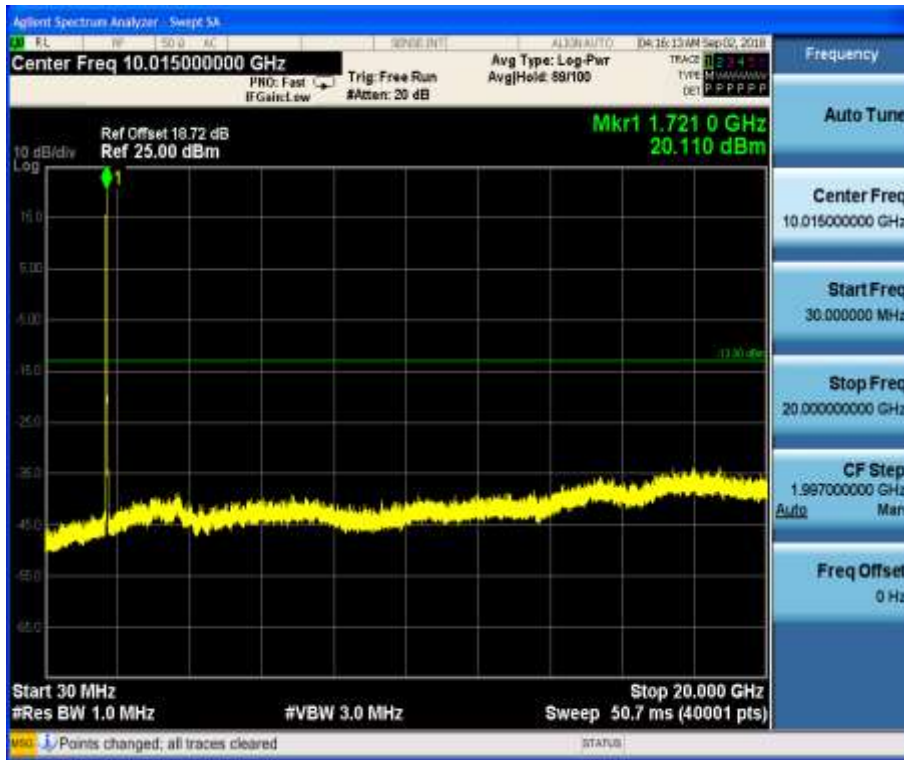
### 6.2.1.2.5 Test Bandwidth = 15

#### 6.2.1.2.5.1 Test Channel = LCH

##### 6.2.1.2.5.1.1 Test RB = RB1#0







### 6.2.1.2.5.2 Test Channel = MCH

#### 6.2.1.2.5.2.1 Test RB = RB1#0

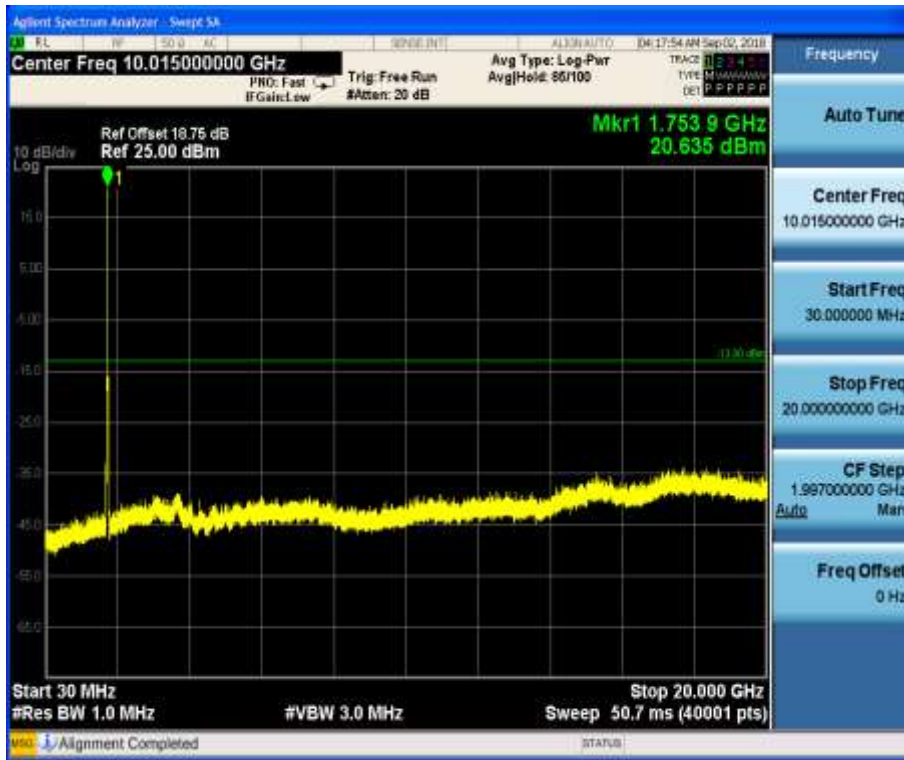




### 6.2.1.2.5.3 Test Channel = HCH

#### 6.2.1.2.5.3.1 Test RB = RB1#0





### 6.2.1.2.6 Test Bandwidth = 20

#### 6.2.1.2.6.1 Test Channel = LCH

##### 6.2.1.2.6.1.1 Test RB = RB1#0

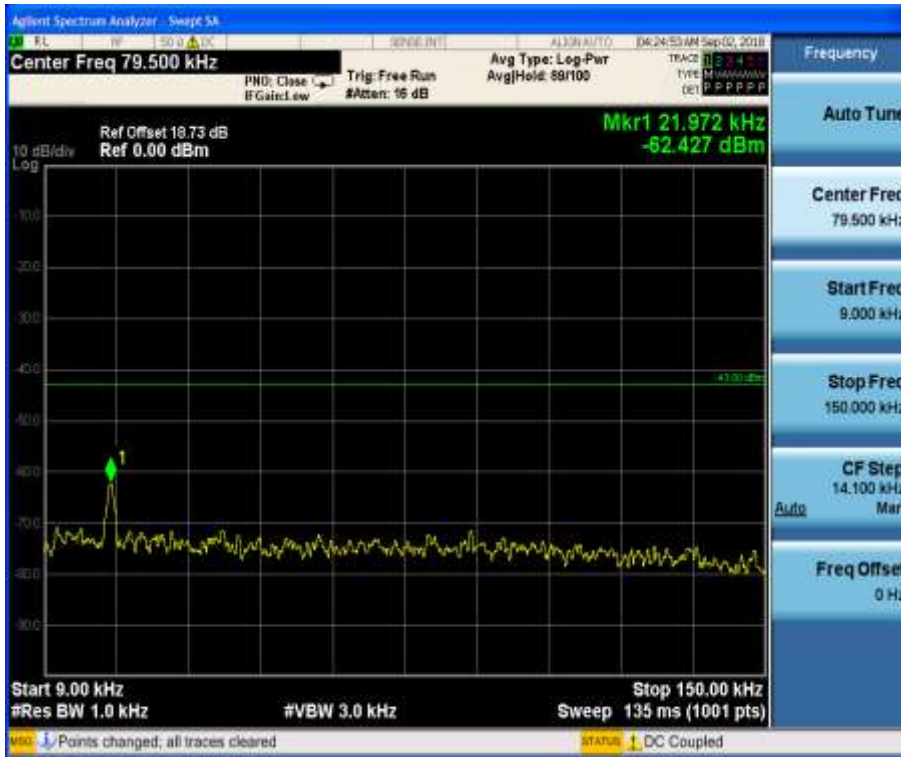


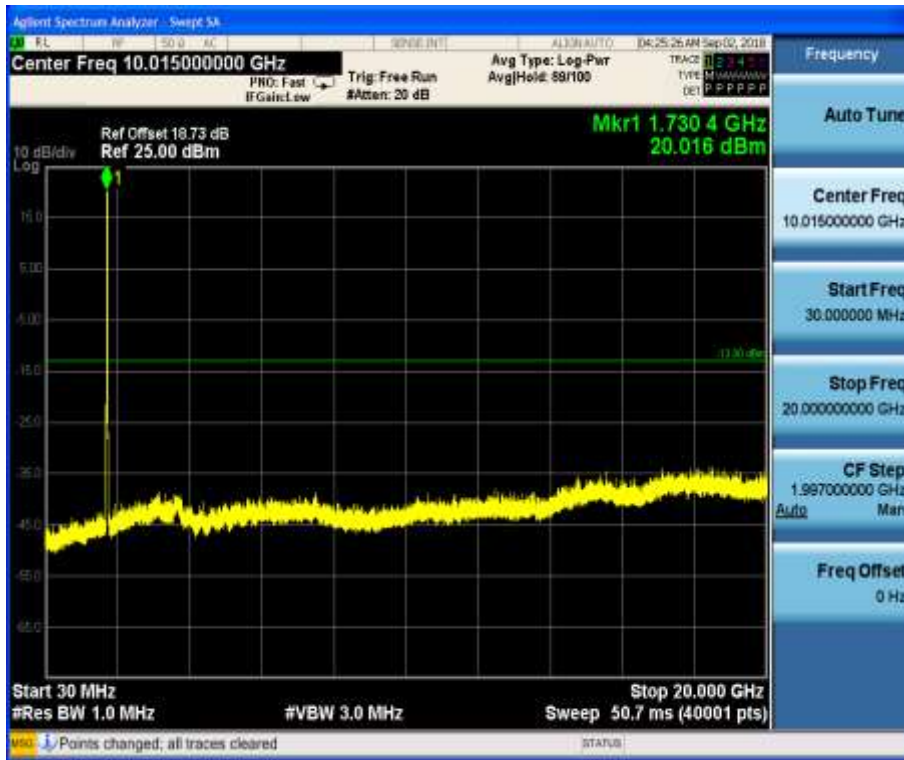




### 6.2.1.2.6.2 Test Channel = MCH

#### 6.2.1.2.6.2.1 Test RB = RB1#0





### 6.2.1.2.6.3 Test Channel = HCH

#### 6.2.1.2.6.3.1 Test RB = RB1#0





## 7Appendix\_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

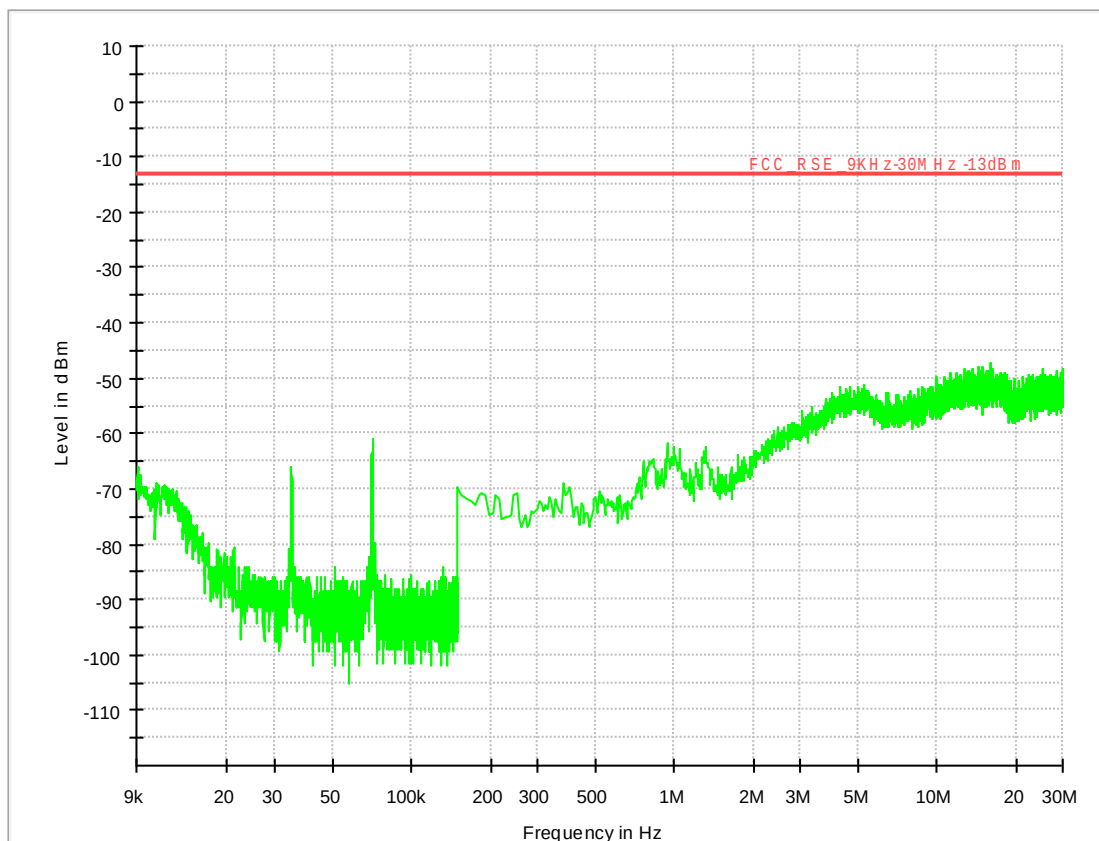
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

### Part I - Test Plots

#### 7.1 For LTE

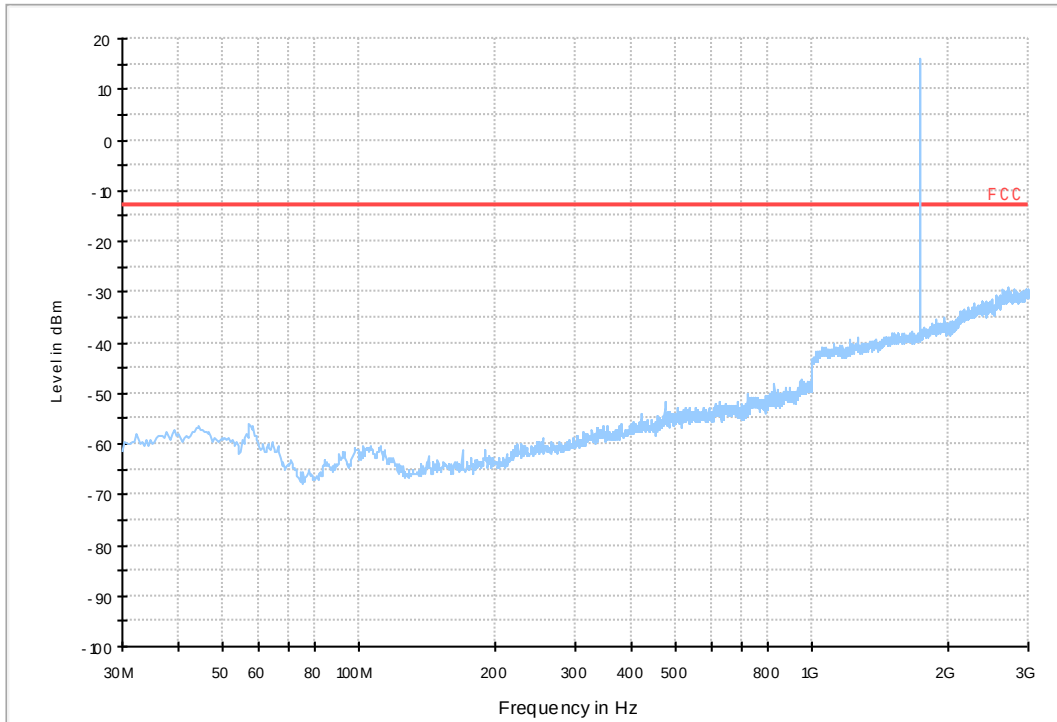
##### 7.1.1 Test Band = BAND4\_ANT1

##### 7.1.1.1 Test Bandwidth = 1.4

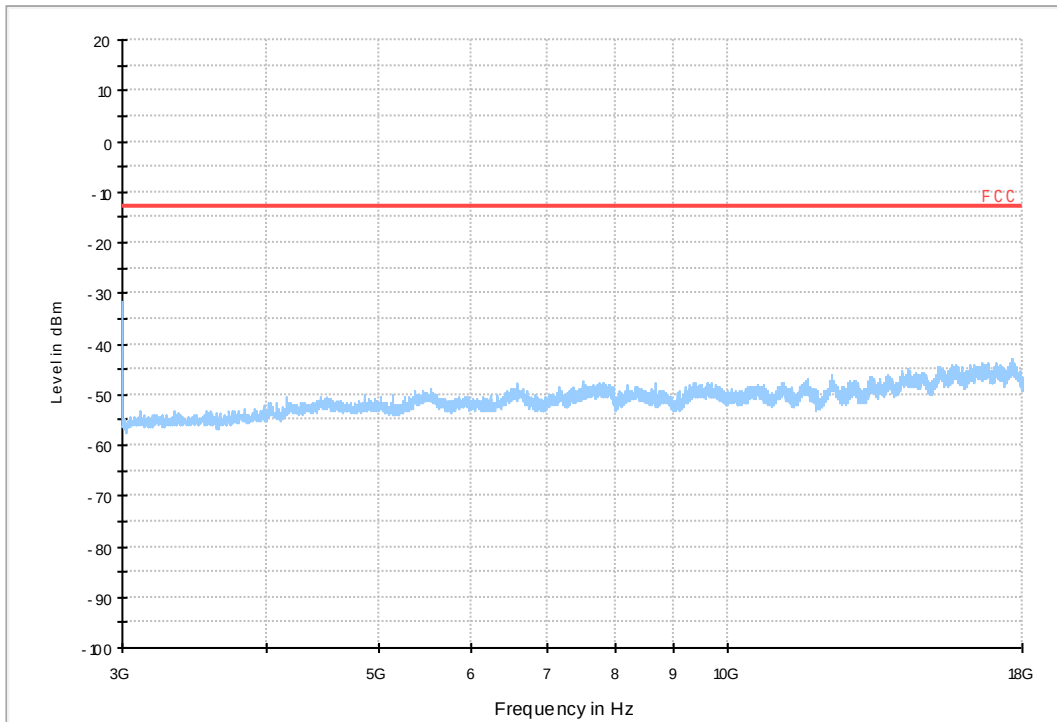




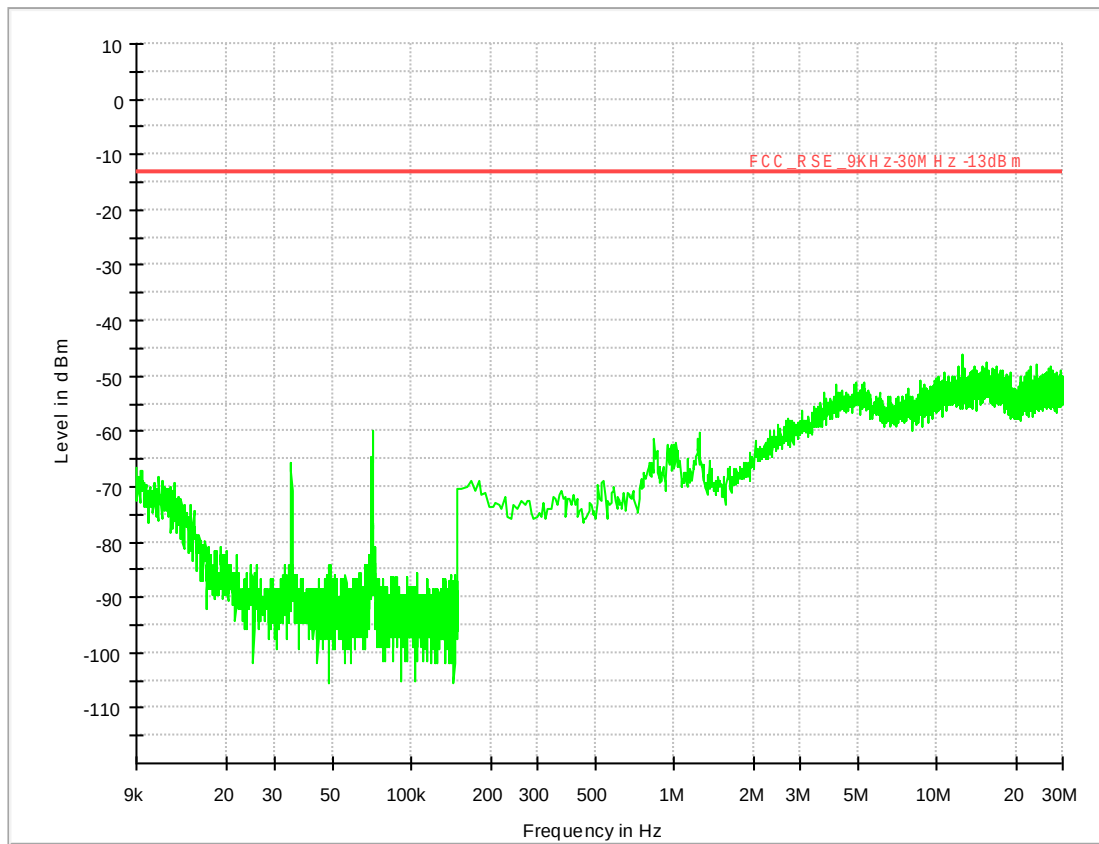
LTE FDD R SE-TX-DIRECTOR ABOVE 1.5G\_L



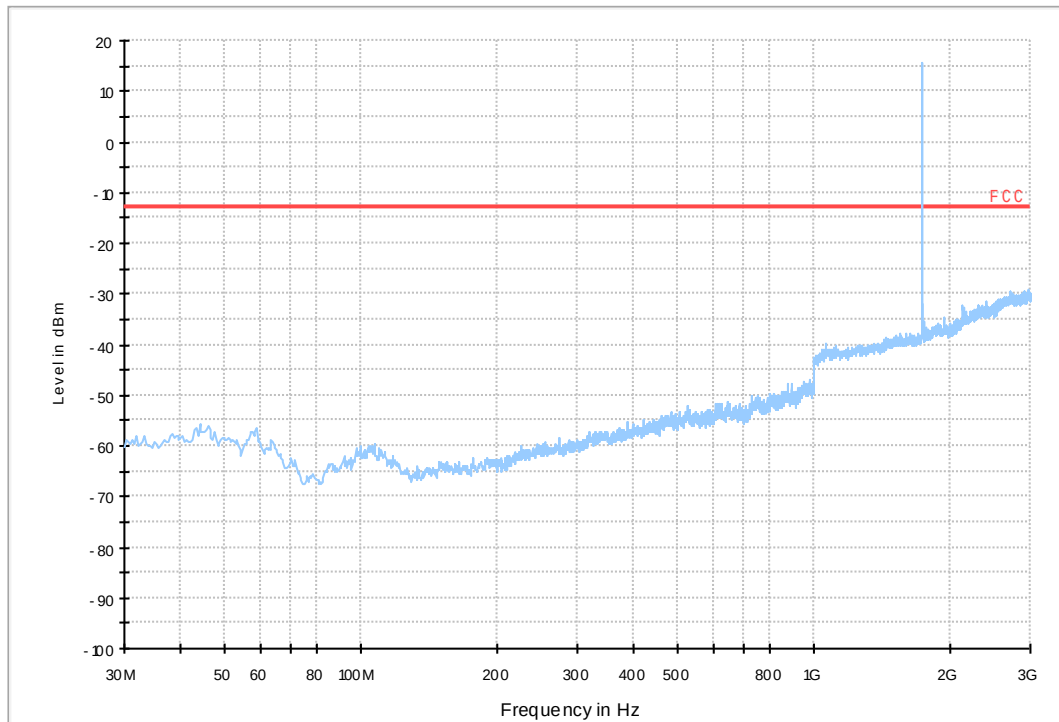
LTE FDD R SE-TX-DIRECTOR ABOVE 1.5G\_H



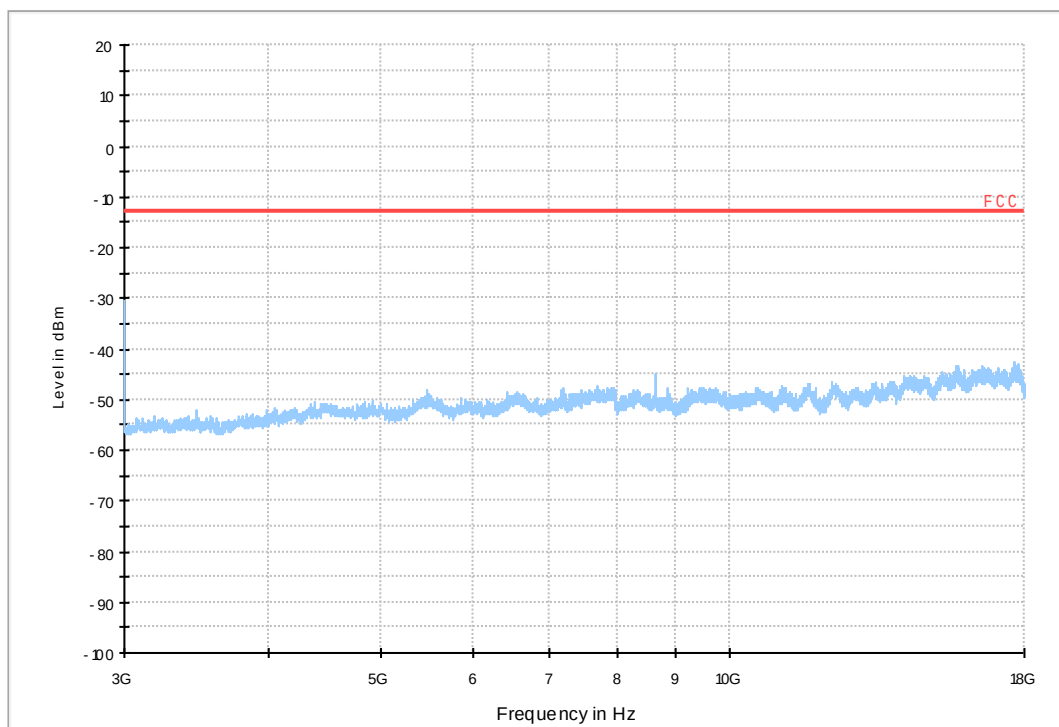
### 7.1.1.2 Test Bandwidth = 5



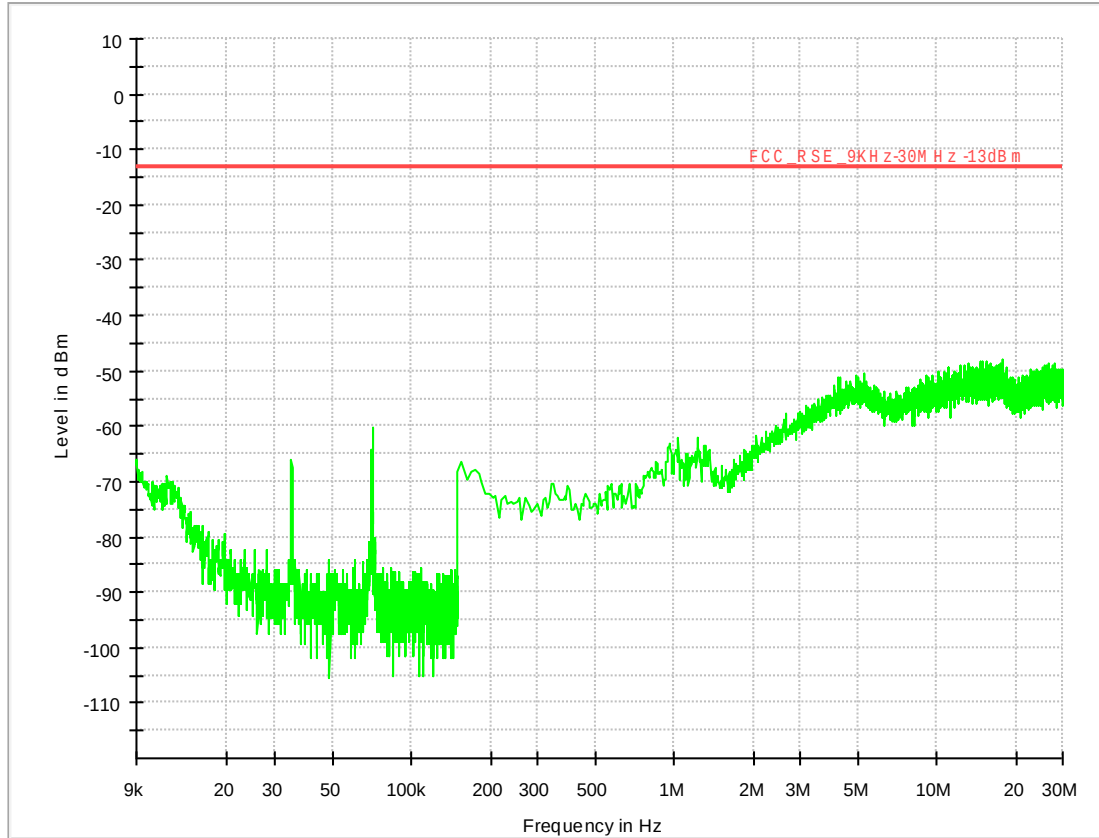
LTE FDD R SE-TX-DIRECTOR ABOVE 1.5G\_L



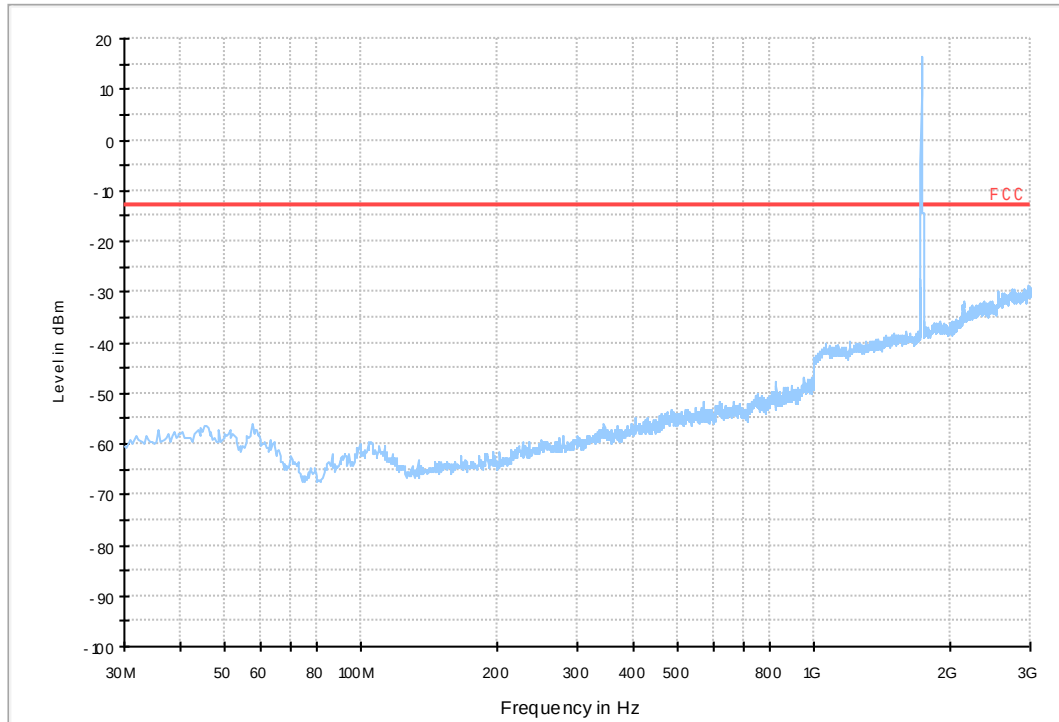
LTE FDD R SE-TX-DIRECTOR ABOVE 1.5G\_H



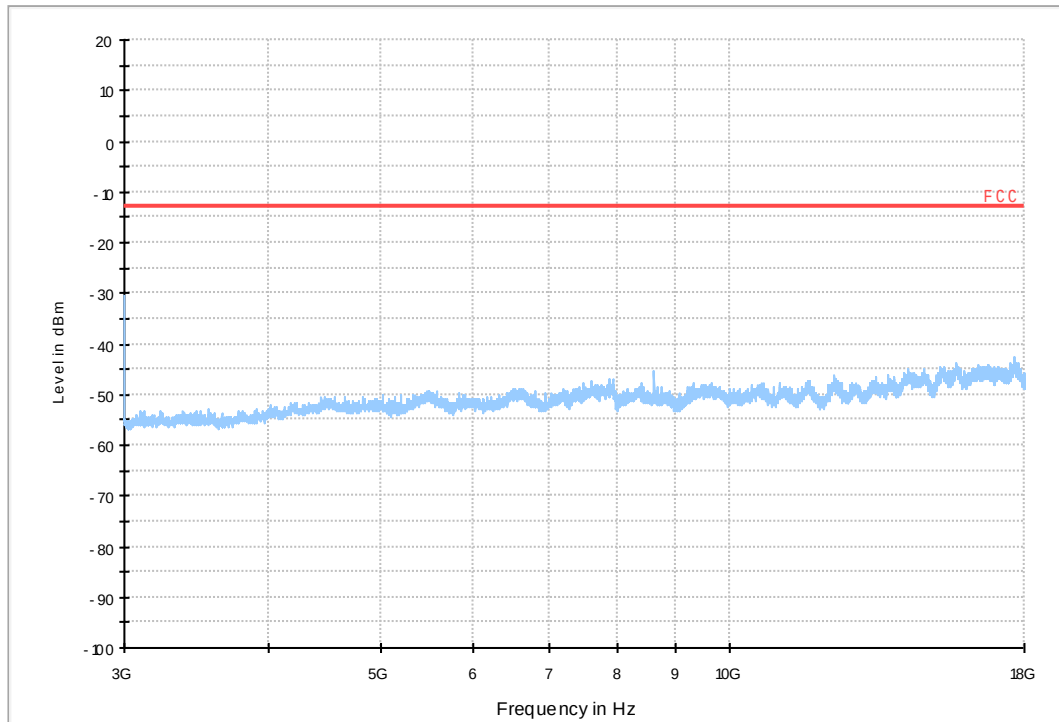
### 7.1.1.3 Test Bandwidth = 20



LTE FDD R SE-TX-DIRECTOR ABOVE 1.5G\_L

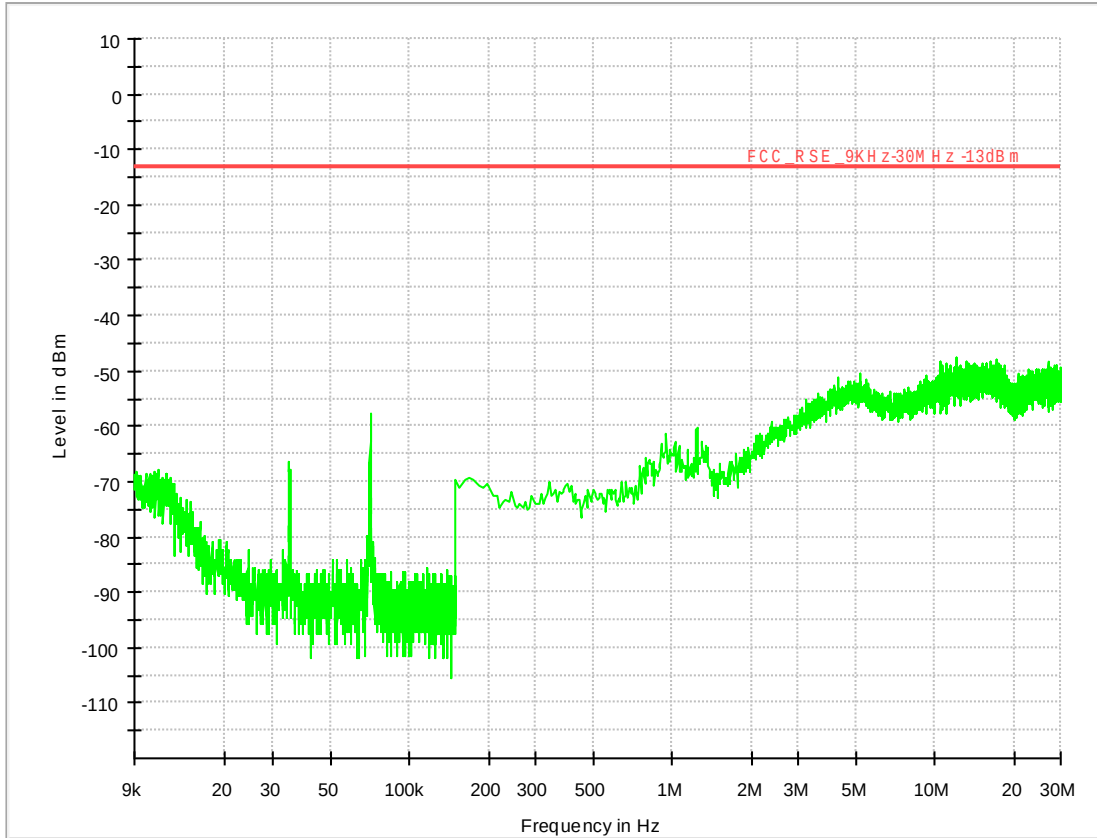


LTE FDD R SE-TX-DIRECTOR ABOVE 1.5G\_H



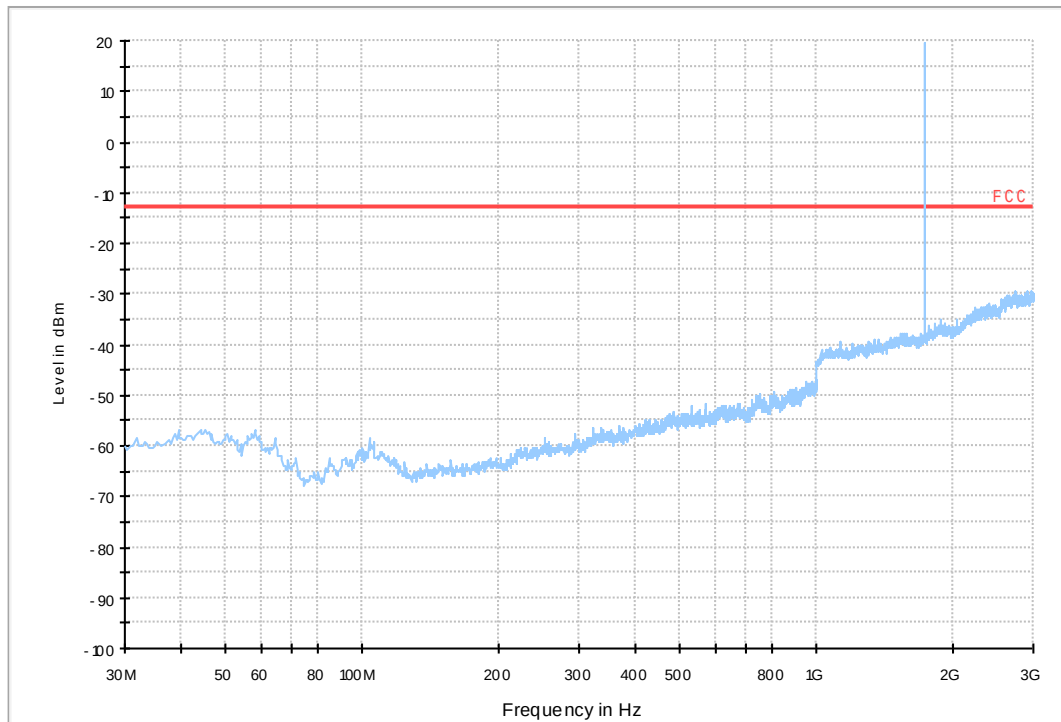
## 7.1.2 Test Band = BAND4\_ANT2

### 7.1.2.1 Test Bandwidth = 1.4

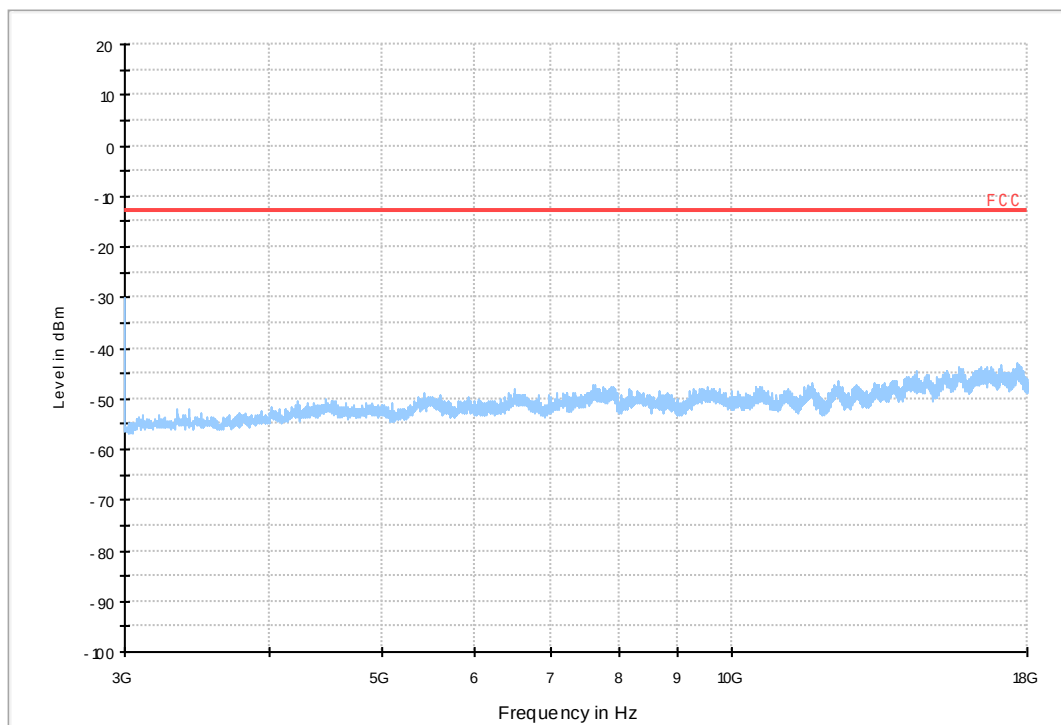




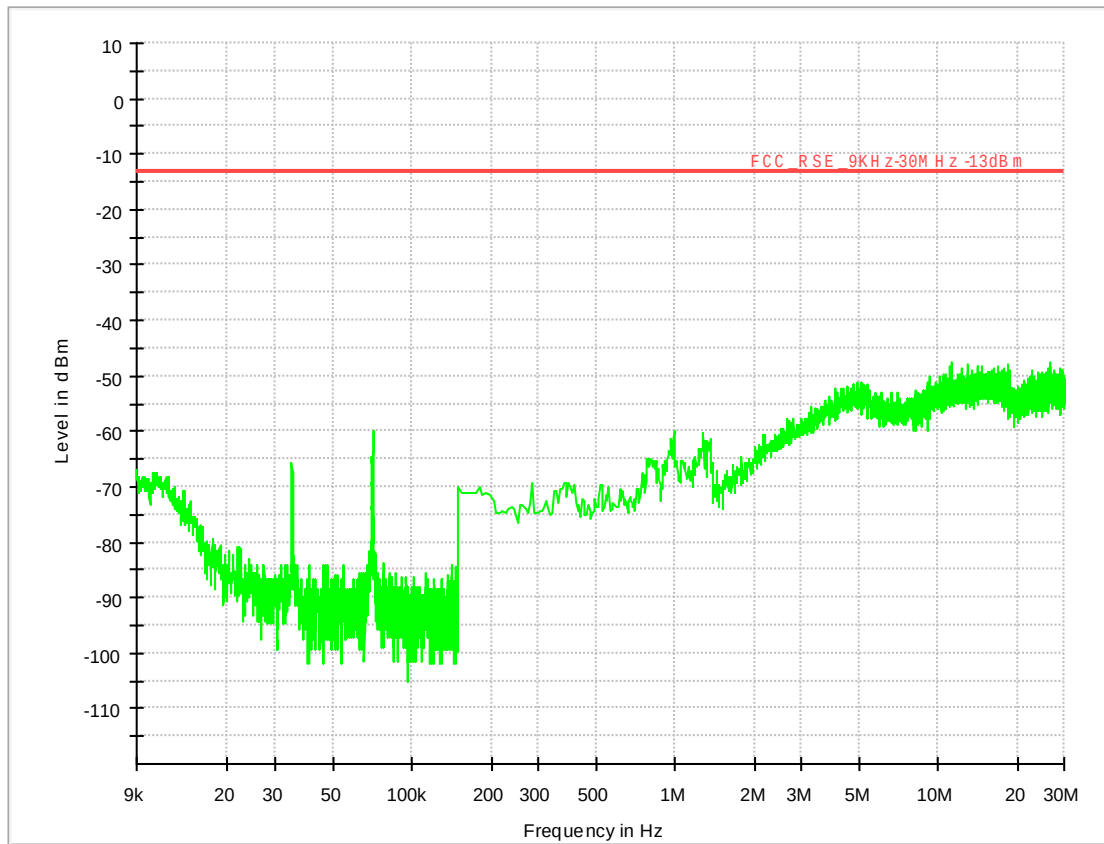
LTE FDD R SE-TX-DIRECTOR ABOVE 1.5G\_L



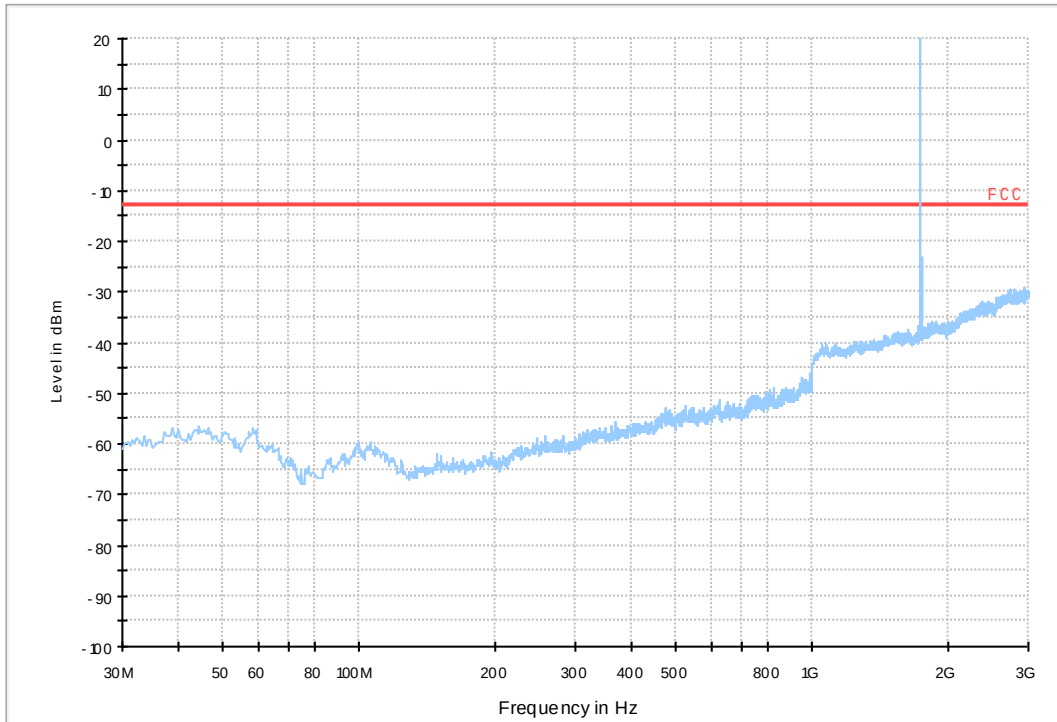
LTE FDD R SE-TX-DIRECTOR ABOVE 1.5G\_H



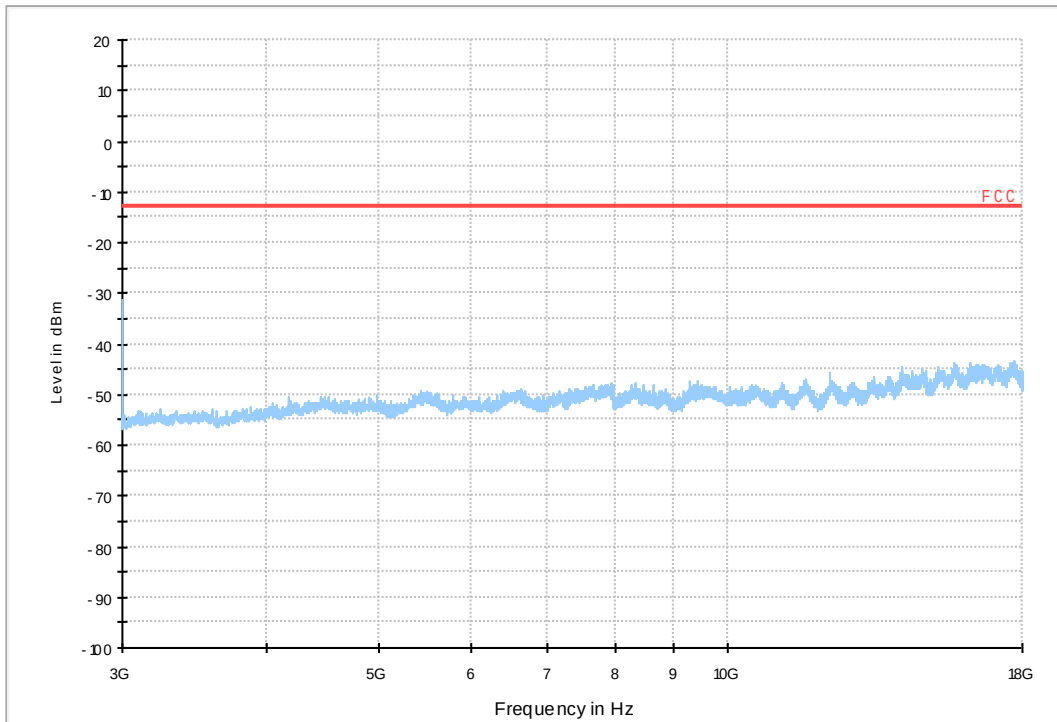
### 7.1.2.2 Test Bandwidth = 5



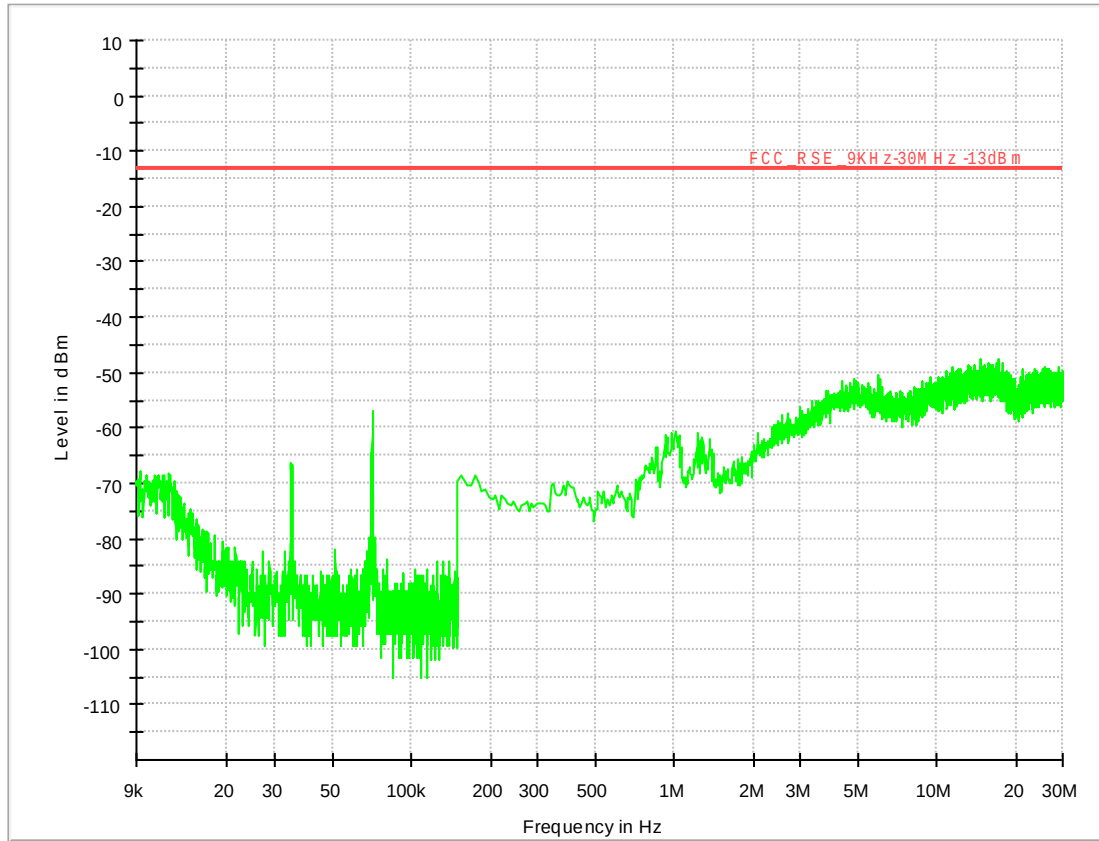
LTE FDD RSE-TX-DIRECTOR ABOVE 1.5G\_L



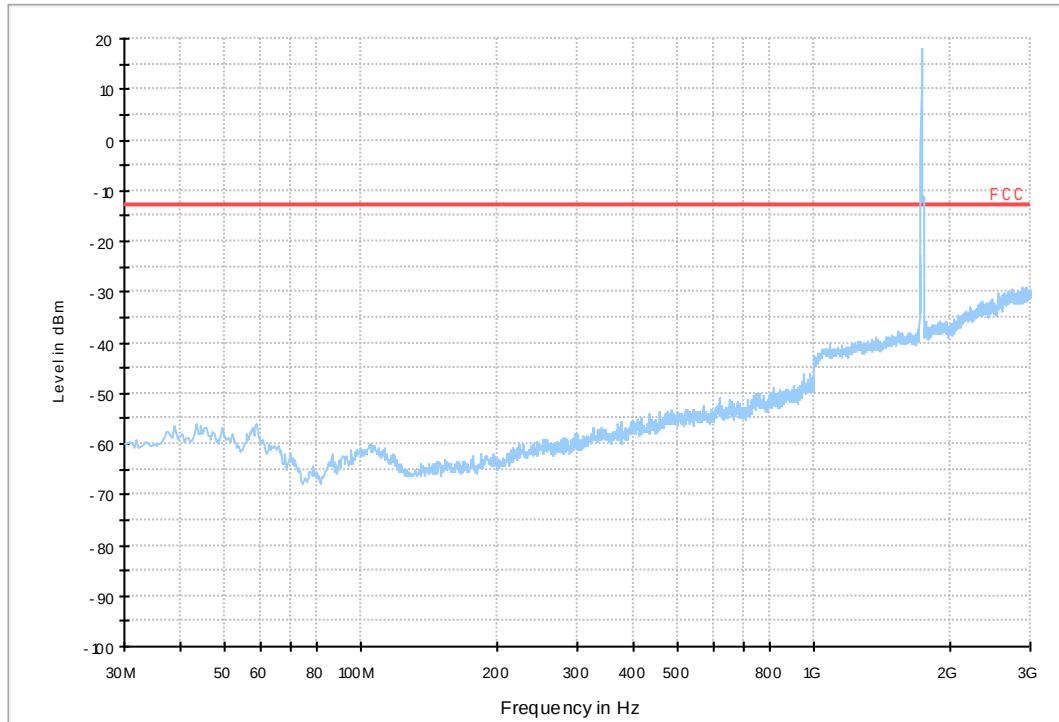
LTE FDD RSE-TX-DIRECTOR ABOVE 1.5G\_H



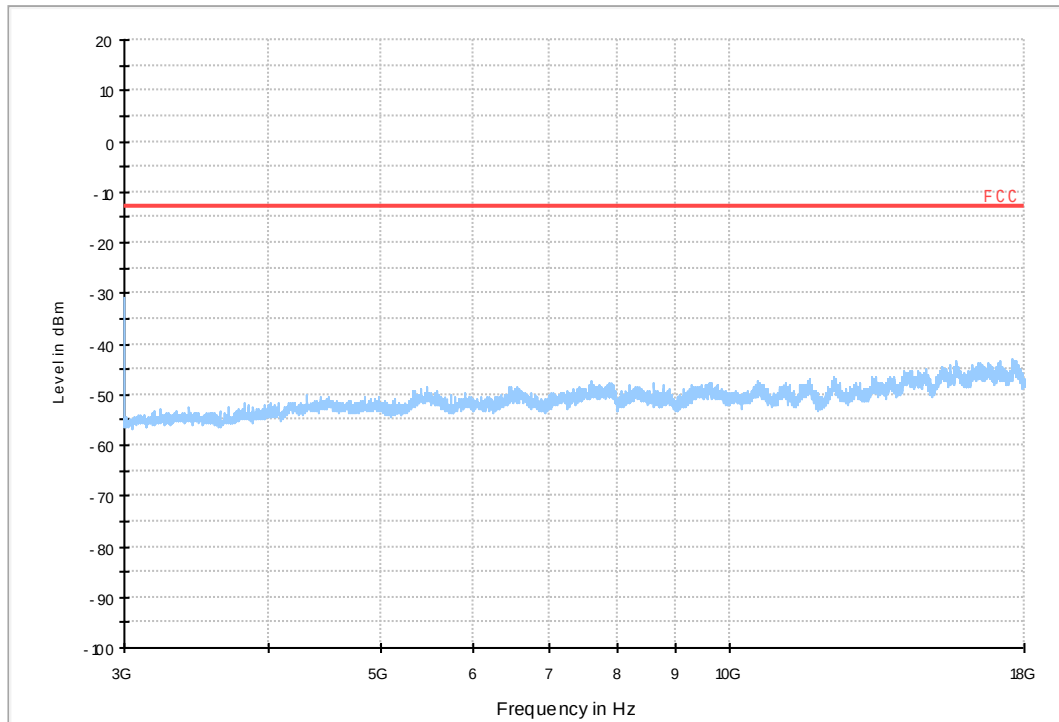
### 7.1.2.3 Test Bandwidth = 20



LTE FDD R SE-TX-DIRECTOR ABOVE 1.5G\_L



LTE FDD R SE-TX-DIRECTOR ABOVE 1.5G\_H



## 8Appendix\_H: Frequency Stability

### 8.1 For LTE

#### 8.1.1Frequency Error vs. Voltage:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| BAND4     | LTE/TM1   | 1.4                  | LCH          | TN         | VL         | 1.63078          | 0.00095               | PASS    |
|           |           |                      |              |            | VN         | 172.86300        | 0.10105               | PASS    |
|           |           |                      |              |            | VH         | -9.91344         | -0.00579              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -6.72340         | -0.00388              | PASS    |
|           |           |                      |              |            | VN         | -62.45613        | -0.03605              | PASS    |
|           |           |                      |              |            | VH         | -40.81249        | -0.02356              | PASS    |
|           |           |                      | HCH          | TN         | VL         | 3.47614          | 0.00198               | PASS    |
|           |           |                      |              |            | VN         | 29.54006         | 0.01684               | PASS    |
|           |           |                      |              |            | VH         | -2.05994         | -0.00117              | PASS    |
|           |           | 3                    | LCH          | TN         | VL         | 0.40054          | 0.00023               | PASS    |
|           |           |                      |              |            | VN         | -1.11580         | -0.00065              | PASS    |
|           |           |                      |              |            | VH         | 1.24455          | 0.00073               | PASS    |
|           |           |                      | MCH          | TN         | VL         | -0.74387         | -0.00043              | PASS    |
|           |           |                      |              |            | VN         | -0.97275         | -0.00056              | PASS    |
|           |           |                      |              |            | VH         | -0.54359         | -0.00031              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -2.93255         | -0.00167              | PASS    |
|           |           |                      |              |            | VN         | 0.98705          | 0.00056               | PASS    |
|           |           |                      |              |            | VH         | -7.12395         | -0.00406              | PASS    |
|           |           | 5                    | LCH          | TN         | VL         | -1.84536         | -0.00108              | PASS    |
|           |           |                      |              |            | VN         | -2.76089         | -0.00161              | PASS    |
|           |           |                      |              |            | VH         | -0.70095         | -0.00041              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -1.58787         | -0.00092              | PASS    |
|           |           |                      |              |            | VN         | -6.88076         | -0.00397              | PASS    |
|           |           |                      |              |            | VH         | -1.94550         | -0.00112              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -0.60081         | -0.00034              | PASS    |
|           |           |                      |              |            | VN         | 1.63078          | 0.00093               | PASS    |
|           |           |                      |              |            | VH         | -1.67370         | -0.00096              | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | 1.21593          | 0.00071               | PASS    |
|           |           |                      |              |            | VN         | 0.61512          | 0.00036               | PASS    |
|           |           |                      |              |            | VH         | -1.17302         | -0.00068              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -2.23160         | -0.00129              | PASS    |
|           |           |                      |              |            | VN         | -3.11851         | -0.00180              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           | LTE/TM2   |                      | HCH          | TN         | VH         | -0.04292         | -0.00002              | PASS    |
|           |           |                      |              |            | VL         | -0.50068         | -0.00029              | PASS    |
|           |           |                      |              |            | VN         | 0.78678          | 0.00045               | PASS    |
|           |           |                      |              |            | VH         | 2.03133          | 0.00116               | PASS    |
|           |           | 15                   | LCH          | TN         | VL         | -2.96116         | -0.00172              | PASS    |
|           |           |                      |              |            | VN         | 0.31471          | 0.00018               | PASS    |
|           |           |                      |              |            | VH         | -0.30041         | -0.00017              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -1.51634         | -0.00088              | PASS    |
|           |           |                      |              |            | VN         | -2.00272         | -0.00116              | PASS    |
|           |           |                      |              |            | VH         | -0.54359         | -0.00031              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -0.80109         | -0.00046              | PASS    |
|           |           |                      |              |            | VN         | -0.05722         | -0.00003              | PASS    |
|           |           |                      |              |            | VH         | 15.36369         | 0.00879               | PASS    |
|           |           | 20                   | LCH          | TN         | VL         | -2.41756         | -0.00141              | PASS    |
|           |           |                      |              |            | VN         | -2.50339         | -0.00146              | PASS    |
|           |           |                      |              |            | VH         | -3.11851         | -0.00181              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -0.60081         | -0.00035              | PASS    |
|           |           |                      |              |            | VN         | -1.45912         | -0.00084              | PASS    |
|           |           |                      |              |            | VH         | -1.57356         | -0.00091              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -1.80244         | -0.00103              | PASS    |
|           |           |                      |              |            | VN         | -2.00272         | -0.00115              | PASS    |
|           |           |                      |              |            | VH         | -1.37329         | -0.00079              | PASS    |
|           |           | 1.4                  | LCH          | TN         | VL         | -3.53336         | -0.00207              | PASS    |
|           |           |                      |              |            | VN         | 29.31118         | 0.01713               | PASS    |
|           |           |                      |              |            | VH         | -3.69072         | -0.00216              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -7.71046         | -0.00445              | PASS    |
|           |           |                      |              |            | VN         | -7.45296         | -0.00430              | PASS    |
|           |           |                      |              |            | VH         | 63.30013         | 0.03654               | PASS    |
|           |           |                      | HCH          | TN         | VL         | 0.54359          | 0.00031               | PASS    |
|           |           |                      |              |            | VN         | 73.22788         | 0.04174               | PASS    |
|           |           |                      |              |            | VH         | 262.89940        | 0.14986               | PASS    |
|           |           | 3                    | LCH          | TN         | VL         | 1.08719          | 0.00064               | PASS    |
|           |           |                      |              |            | VN         | 0.50068          | 0.00029               | PASS    |
|           |           |                      |              |            | VH         | 1.68800          | 0.00099               | PASS    |
|           |           |                      | MCH          | TN         | VL         | 2.67506          | 0.00154               | PASS    |
|           |           |                      |              |            | VN         | -4.60625         | -0.00266              | PASS    |
|           |           |                      |              |            | VH         | 20.22743         | 0.01168               | PASS    |
|           |           |                      | HCH          | TN         | VL         | -1.23024         | -0.00070              | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      |              |            | VN         | -3.04699         | -0.00174              | PASS    |
|           |           |                      |              |            | VH         | -1.25885         | -0.00072              | PASS    |
|           |           | 5                    | LCH          | TN         | VL         | -3.83377         | -0.00224              | PASS    |
|           |           |                      |              |            | VN         | -2.40326         | -0.00140              | PASS    |
|           |           |                      |              |            | VH         | -5.26428         | -0.00307              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -2.60353         | -0.00150              | PASS    |
|           |           |                      |              |            | VN         | -2.36034         | -0.00136              | PASS    |
|           |           |                      |              |            | VH         | -1.94550         | -0.00112              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -0.92983         | -0.00053              | PASS    |
|           |           |                      |              |            | VN         | -3.40462         | -0.00194              | PASS    |
|           |           |                      |              |            | VH         | -2.50339         | -0.00143              | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | -4.99249         | -0.00291              | PASS    |
|           |           |                      |              |            | VN         | -1.78814         | -0.00104              | PASS    |
|           |           |                      |              |            | VH         | -1.00136         | -0.00058              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -2.70367         | -0.00156              | PASS    |
|           |           |                      |              |            | VN         | -1.44482         | -0.00083              | PASS    |
|           |           |                      |              |            | VH         | -3.03268         | -0.00175              | PASS    |
|           |           |                      | HCH          | TN         | VL         | 2.64645          | 0.00151               | PASS    |
|           |           |                      |              |            | VN         | 0.18597          | 0.00011               | PASS    |
|           |           |                      |              |            | VH         | 0.32902          | 0.00019               | PASS    |
|           |           | 15                   | LCH          | TN         | VL         | -3.90530         | -0.00227              | PASS    |
|           |           |                      |              |            | VN         | -1.64509         | -0.00096              | PASS    |
|           |           |                      |              |            | VH         | -0.21458         | -0.00012              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -1.55926         | -0.00090              | PASS    |
|           |           |                      |              |            | VN         | -1.07288         | -0.00062              | PASS    |
|           |           |                      |              |            | VH         | -4.17709         | -0.00241              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -0.51498         | -0.00029              | PASS    |
|           |           |                      |              |            | VN         | -2.84672         | -0.00163              | PASS    |
|           |           |                      |              |            | VH         | 0.41485          | 0.00024               | PASS    |
|           |           | 20                   | LCH          | TN         | VL         | -5.26428         | -0.00306              | PASS    |
|           |           |                      |              |            | VN         | -5.43594         | -0.00316              | PASS    |
|           |           |                      |              |            | VH         | -2.96116         | -0.00172              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -0.35763         | -0.00021              | PASS    |
|           |           |                      |              |            | VN         | -1.41621         | -0.00082              | PASS    |
|           |           |                      |              |            | VH         | -0.94414         | -0.00054              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -2.27451         | -0.00130              | PASS    |
|           |           |                      |              |            | VN         | -3.44753         | -0.00198              | PASS    |
|           |           |                      |              |            | VH         | -2.03133         | -0.00116              | PASS    |

### 8.1.2 Frequency Error vs. Temperature:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
| BAND4     | LTE/TM1   | 1.4                  | LCH          | VN         | -30       | 3.53336          | 0.00207               | PASS    |
|           |           |                      |              |            | -20       | 326.49990        | 0.19086               | PASS    |
|           |           |                      |              |            | -10       | 92.99755         | 0.05436               | PASS    |
|           |           |                      |              |            | 0         | 7.12395          | 0.00416               | PASS    |
|           |           |                      |              |            | 10        | 0.20027          | 0.00012               | PASS    |
|           |           |                      |              |            | 20        | 172.86300        | 0.10105               | PASS    |
|           |           |                      |              |            | 30        | -16.02173        | -0.00937              | PASS    |
|           |           |                      |              |            | 40        | 85.95943         | 0.05025               | PASS    |
|           |           |                      |              |            | 50        | 137.45780        | 0.08035               | PASS    |
|           |           |                      | MCH          | VN         | -30       | -75.34504        | -0.04349              | PASS    |
|           |           |                      |              |            | -20       | 14.61983         | 0.00844               | PASS    |
|           |           |                      |              |            | -10       | 82.42607         | 0.04758               | PASS    |
|           |           |                      |              |            | 0         | -58.15029        | -0.03356              | PASS    |
|           |           |                      |              |            | 10        | 3.37601          | 0.00195               | PASS    |
|           |           |                      |              |            | 20        | -62.45613        | -0.03605              | PASS    |
|           |           |                      |              |            | 30        | 0.35763          | 0.00021               | PASS    |
|           |           |                      |              |            | 40        | -57.16324        | -0.03299              | PASS    |
|           |           |                      |              |            | 50        | -124.31140       | -0.07175              | PASS    |
|           |           |                      | HCH          | VN         | -30       | 184.33570        | 0.10508               | PASS    |
|           |           |                      |              |            | -20       | -75.47379        | -0.04302              | PASS    |
|           |           |                      |              |            | -10       | -169.64440       | -0.09670              | PASS    |
|           |           |                      |              |            | 0         | 105.67190        | 0.06024               | PASS    |
|           |           |                      |              |            | 10        | -27.58026        | -0.01572              | PASS    |
|           |           |                      |              |            | 20        | 29.54006         | 0.01684               | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | 30        | -40.38334        | -0.02302              | PASS    |
|           |           |                      |              |            | 40        | 159.30180        | 0.09081               | PASS    |
|           |           |                      |              |            | 50        | -3.08990         | -0.00176              | PASS    |
|           |           | 3                    | LCH          | VN         | -30       | 3.08990          | 0.00181               | PASS    |
|           |           |                      |              |            | -20       | -2.44618         | -0.00143              | PASS    |
|           |           |                      |              |            | -10       | 2.53200          | 0.00148               | PASS    |
|           |           |                      |              |            | 0         | -3.71933         | -0.00217              | PASS    |
|           |           |                      |              |            | 10        | 24.89090         | 0.01454               | PASS    |
|           |           |                      |              |            | 20        | -1.11580         | -0.00065              | PASS    |
|           |           |                      |              |            | 30        | -0.97275         | -0.00057              | PASS    |
|           |           |                      |              |            | 40        | 4.70638          | 0.00275               | PASS    |
|           |           |                      |              |            | 50        | 0.00000          | 0.00000               | PASS    |
|           |           |                      | MCH          | VN         | -30       | 0.40054          | 0.00023               | PASS    |
|           |           |                      |              |            | -20       | -1.25885         | -0.00073              | PASS    |
|           |           |                      |              |            | -10       | 4.43459          | 0.00256               | PASS    |
|           |           |                      |              |            | 0         | -3.90530         | -0.00225              | PASS    |
|           |           |                      |              |            | 10        | -2.14577         | -0.00124              | PASS    |
|           |           |                      |              |            | 20        | -0.97275         | -0.00056              | PASS    |
|           |           |                      |              |            | 30        | -5.99384         | -0.00346              | PASS    |
|           |           |                      |              |            | 40        | -0.41485         | -0.00024              | PASS    |
|           |           |                      |              |            | 50        | 1.55926          | 0.00090               | PASS    |
|           |           |                      | HCH          | VN         | -30       | -6.62327         | -0.00378              | PASS    |
|           |           |                      |              |            | -20       | 18.36777         | 0.01047               | PASS    |
|           |           |                      |              |            | -10       | -2.01702         | -0.00115              | PASS    |
|           |           |                      |              |            | 0         | -4.72069         | -0.00269              | PASS    |
|           |           |                      |              |            | 10        | -0.82970         | -0.00047              | PASS    |
|           |           |                      |              |            | 20        | 0.98705          | 0.00056               | PASS    |
|           |           |                      |              |            | 30        | 2.21729          | 0.00126               | PASS    |
|           |           |                      |              |            | 40        | -1.21593         | -0.00069              | PASS    |
|           |           |                      |              |            | 50        | 1.53065          | 0.00087               | PASS    |
|           |           | 5                    | LCH          | VN         | -30       | -3.59058         | -0.00210              | PASS    |
|           |           |                      |              |            | -20       | -5.24998         | -0.00307              | PASS    |
|           |           |                      |              |            | -10       | -1.88827         | -0.00110              | PASS    |
|           |           |                      |              |            | 0         | -5.37872         | -0.00314              | PASS    |
|           |           |                      |              |            | 10        | -0.71526         | -0.00042              | PASS    |
|           |           |                      |              |            | 20        | -2.76089         | -0.00161              | PASS    |
|           |           |                      |              |            | 30        | -3.34740         | -0.00195              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | 40        | -2.81811         | -0.00165              | PASS    |
|           |           |                      |              |            | 50        | 2.43187          | 0.00142               | PASS    |
|           |           |                      | MCH          | VN         | -30       | -3.71933         | -0.00215              | PASS    |
|           |           |                      |              |            | -20       | -1.13010         | -0.00065              | PASS    |
|           |           |                      |              |            | -10       | -2.68936         | -0.00155              | PASS    |
|           |           |                      |              |            | 0         | -1.78814         | -0.00103              | PASS    |
|           |           |                      |              |            | 10        | 2.70367          | 0.00156               | PASS    |
|           |           |                      |              |            | 20        | -6.88076         | -0.00397              | PASS    |
|           |           |                      |              |            | 30        | -4.23431         | -0.00244              | PASS    |
|           |           |                      |              |            | 40        | -1.77383         | -0.00102              | PASS    |
|           |           |                      |              |            | 50        | -0.58651         | -0.00034              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -3.34740         | -0.00191              | PASS    |
|           |           |                      |              |            | -20       | -5.27859         | -0.00301              | PASS    |
|           |           |                      |              |            | -10       | -4.34875         | -0.00248              | PASS    |
|           |           |                      |              |            | 0         | -1.90258         | -0.00109              | PASS    |
|           |           |                      |              |            | 10        | -2.10285         | -0.00120              | PASS    |
|           |           |                      |              |            | 20        | 1.63078          | 0.00093               | PASS    |
|           |           |                      |              |            | 30        | -0.60081         | -0.00034              | PASS    |
|           |           |                      |              |            | 40        | -3.97682         | -0.00227              | PASS    |
|           |           |                      |              |            | 50        | -4.96387         | -0.00283              | PASS    |
|           |           | 10                   | LCH          | VN         | -30       | -1.67370         | -0.00098              | PASS    |
|           |           |                      |              |            | -20       | -1.15871         | -0.00068              | PASS    |
|           |           |                      |              |            | -10       | 1.85966          | 0.00108               | PASS    |
|           |           |                      |              |            | 0         | -0.78678         | -0.00046              | PASS    |
|           |           |                      |              |            | 10        | -1.58787         | -0.00093              | PASS    |
|           |           |                      |              |            | 20        | 0.61512          | 0.00036               | PASS    |
|           |           |                      |              |            | 30        | -0.05722         | -0.00003              | PASS    |
|           |           |                      |              |            | 40        | -1.73092         | -0.00101              | PASS    |
|           |           |                      |              |            | 50        | -1.47343         | -0.00086              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -1.05858         | -0.00061              | PASS    |
|           |           |                      |              |            | -20       | -0.32902         | -0.00019              | PASS    |
|           |           |                      |              |            | -10       | 1.91688          | 0.00111               | PASS    |
|           |           |                      |              |            | 0         | -1.33038         | -0.00077              | PASS    |
|           |           |                      |              |            | 10        | -4.27723         | -0.00247              | PASS    |
|           |           |                      |              |            | 20        | -3.11851         | -0.00180              | PASS    |
|           |           |                      |              |            | 30        | -1.51634         | -0.00088              | PASS    |
|           |           |                      |              |            | 40        | -2.87533         | -0.00166              | PASS    |
|           |           |                      |              |            | 50        | 0.30041          | 0.00017               | PASS    |
|           |           |                      | HCH          | VN         | -30       | -1.67370         | -0.00096              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | -20       | -0.75817         | -0.00043              | PASS    |
|           |           |                      |              |            | -10       | -1.20163         | -0.00069              | PASS    |
|           |           |                      |              |            | 0         | 1.91688          | 0.00110               | PASS    |
|           |           |                      |              |            | 10        | 2.68936          | 0.00154               | PASS    |
|           |           |                      |              |            | 20        | 0.78678          | 0.00045               | PASS    |
|           |           |                      |              |            | 30        | 2.64645          | 0.00151               | PASS    |
|           |           |                      |              |            | 40        | -3.90530         | -0.00223              | PASS    |
|           |           |                      |              |            | 50        | -5.77927         | -0.00330              | PASS    |
|           |           | 15                   | LCH          | VN         | -30       | -2.18868         | -0.00127              | PASS    |
|           |           |                      |              |            | -20       | -1.80244         | -0.00105              | PASS    |
|           |           |                      |              |            | -10       | 1.04427          | 0.00061               | PASS    |
|           |           |                      |              |            | 0         | -3.14712         | -0.00183              | PASS    |
|           |           |                      |              |            | 10        | -2.83241         | -0.00165              | PASS    |
|           |           |                      |              |            | 20        | 0.31471          | 0.00018               | PASS    |
|           |           |                      |              |            | 30        | -0.90122         | -0.00052              | PASS    |
|           |           |                      |              |            | 40        | 0.48637          | 0.00028               | PASS    |
|           |           |                      |              |            | 50        | -0.07153         | -0.00004              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -1.64509         | -0.00095              | PASS    |
|           |           |                      |              |            | -20       | -2.76089         | -0.00159              | PASS    |
|           |           |                      |              |            | -10       | -2.05994         | -0.00119              | PASS    |
|           |           |                      |              |            | 0         | -1.88827         | -0.00109              | PASS    |
|           |           |                      |              |            | 10        | -3.19004         | -0.00184              | PASS    |
|           |           |                      |              |            | 20        | -2.00272         | -0.00116              | PASS    |
|           |           |                      |              |            | 30        | -4.39167         | -0.00253              | PASS    |
|           |           |                      |              |            | 40        | -1.45912         | -0.00084              | PASS    |
|           |           |                      |              |            | 50        | -4.76360         | -0.00275              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -0.37193         | -0.00021              | PASS    |
|           |           |                      |              |            | -20       | -1.90258         | -0.00109              | PASS    |
|           |           |                      |              |            | -10       | -1.21593         | -0.00070              | PASS    |
|           |           |                      |              |            | 0         | 0.44346          | 0.00025               | PASS    |
|           |           |                      |              |            | 10        | -2.01702         | -0.00115              | PASS    |
|           |           |                      |              |            | 20        | -0.05722         | -0.00003              | PASS    |
|           |           |                      |              |            | 30        | -0.50068         | -0.00029              | PASS    |
|           |           |                      |              |            | 40        | 0.67234          | 0.00038               | PASS    |
|           |           |                      |              |            | 50        | -0.28610         | -0.00016              | PASS    |
|           |           | 20                   | LCH          | VN         | -30       | -2.93255         | -0.00170              | PASS    |
|           |           |                      |              |            | -20       | -2.84672         | -0.00166              | PASS    |
|           |           |                      |              |            | -10       | -2.17438         | -0.00126              | PASS    |
|           |           |                      |              |            | 0         | -3.11851         | -0.00181              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | 10        | -5.29289         | -0.00308              | PASS    |
|           |           |                      |              |            | 20        | -2.50339         | -0.00146              | PASS    |
|           |           |                      |              |            | 30        | -3.71933         | -0.00216              | PASS    |
|           |           |                      |              |            | 40        | 2.16007          | 0.00126               | PASS    |
|           |           |                      |              |            | 50        | -4.04835         | -0.00235              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -0.54359         | -0.00031              | PASS    |
|           |           |                      |              |            | -20       | -1.91688         | -0.00111              | PASS    |
|           |           |                      |              |            | -10       | -2.16007         | -0.00125              | PASS    |
|           |           |                      |              |            | 0         | -1.67370         | -0.00097              | PASS    |
|           |           |                      |              |            | 10        | -0.61512         | -0.00036              | PASS    |
|           |           |                      |              |            | 20        | -1.45912         | -0.00084              | PASS    |
|           |           |                      |              |            | 30        | -4.01974         | -0.00232              | PASS    |
|           |           |                      |              |            | 40        | -2.86102         | -0.00165              | PASS    |
|           |           |                      |              |            | 50        | -2.88963         | -0.00167              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -4.79221         | -0.00275              | PASS    |
|           |           |                      |              |            | -20       | -51.3553<br>6    | -0.02943              | PASS    |
|           |           |                      |              |            | -10       | -3.59058         | -0.00206              | PASS    |
|           |           |                      |              |            | 0         | -3.30448         | -0.00189              | PASS    |
|           |           |                      |              |            | 10        | -0.54359         | -0.00031              | PASS    |
|           |           |                      |              |            | 20        | -2.00272         | -0.00115              | PASS    |
|           |           |                      |              |            | 30        | -2.73228         | -0.00157              | PASS    |
|           |           |                      |              |            | 40        | -4.36306         | -0.00250              | PASS    |
|           |           |                      |              |            | 50        | -3.36170         | -0.00193              | PASS    |
|           | LTE/TM2   | 1.4                  | LCH          | VN         | -30       | 115.0274<br>0    | 0.06724               | PASS    |
|           |           |                      |              |            | -20       | 77.91996         | 0.04555               | PASS    |
|           |           |                      |              |            | -10       | 139.8754<br>0    | 0.08177               | PASS    |
|           |           |                      |              |            | 0         | 77.24762         | 0.04516               | PASS    |
|           |           |                      |              |            | 10        | -103.025<br>40   | -0.06022              | PASS    |
|           |           |                      |              |            | 20        | 29.31118         | 0.01713               | PASS    |
|           |           |                      |              |            | 30        | -28.6245<br>3    | -0.01673              | PASS    |
|           |           |                      |              |            | 40        | 25.04826         | 0.01464               | PASS    |
|           |           |                      |              |            | 50        | 117.1017<br>0    | 0.06845               | PASS    |
|           |           |                      | MCH          | VN         | -30       | -1.20163         | -0.00069              | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | -20       | -195.736<br>90   | -0.11298              | PASS    |
|           |           |                      |              |            | -10       | -84.1856<br>0    | -0.04859              | PASS    |
|           |           |                      |              |            | 0         | -65.6461<br>7    | -0.03789              | PASS    |
|           |           |                      |              |            | 10        | -117.902<br>80   | -0.06805              | PASS    |
|           |           |                      |              |            | 20        | -7.45296         | -0.00430              | PASS    |
|           |           |                      |              |            | 30        | -48.6803<br>1    | -0.02810              | PASS    |
|           |           |                      |              |            | 40        | -61.9554<br>5    | -0.03576              | PASS    |
|           |           |                      |              |            | 50        | -105.943<br>70   | -0.06115              | PASS    |
|           |           |                      | HCH          | VN         | -30       | 57.32059         | 0.03267               | PASS    |
|           |           |                      |              |            | -20       | -123.953<br>80   | -0.07066              | PASS    |
|           |           |                      |              |            | -10       | 38.03730         | 0.02168               | PASS    |
|           |           |                      |              |            | 0         | 91.42399         | 0.05211               | PASS    |
|           |           |                      |              |            | 10        | 240.6693<br>0    | 0.13719               | PASS    |
|           |           |                      |              |            | 20        | 73.22788         | 0.04174               | PASS    |
|           |           |                      |              |            | 30        | 98.86265         | 0.05635               | PASS    |
|           |           |                      |              |            | 40        | -106.587<br>40   | -0.06076              | PASS    |
|           |           |                      |              |            | 50        | -78.6781<br>3    | -0.04485              | PASS    |
|           |           | 3                    | LCH          | VN         | -30       | 1.35899          | 0.00079               | PASS    |
|           |           |                      |              |            | -20       | 0.75817          | 0.00044               | PASS    |
|           |           |                      |              |            | -10       | 0.60081          | 0.00035               | PASS    |
|           |           |                      |              |            | 0         | -2.23160         | -0.00130              | PASS    |
|           |           |                      |              |            | 10        | 2.68936          | 0.00157               | PASS    |
|           |           |                      |              |            | 20        | 0.50068          | 0.00029               | PASS    |
|           |           |                      |              |            | 30        | 1.55926          | 0.00091               | PASS    |
|           |           |                      |              |            | 40        | -1.30177         | -0.00076              | PASS    |
|           |           |                      |              |            | 50        | -0.72956         | -0.00043              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -0.72956         | -0.00042              | PASS    |
|           |           |                      |              |            | -20       | -5.80788         | -0.00335              | PASS    |
|           |           |                      |              |            | -10       | -4.92096         | -0.00284              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | 0         | -1.13010         | -0.00065              | PASS    |
|           |           |                      |              |            | 10        | -0.61512         | -0.00036              | PASS    |
|           |           |                      |              |            | 20        | -4.60625         | -0.00266              | PASS    |
|           |           |                      |              |            | 30        | -2.74658         | -0.00159              | PASS    |
|           |           |                      |              |            | 40        | 0.15736          | 0.00009               | PASS    |
|           |           |                      |              |            | 50        | -4.92096         | -0.00284              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -4.07696         | -0.00233              | PASS    |
|           |           |                      |              |            | -20       | 0.01431          | 0.00001               | PASS    |
|           |           |                      |              |            | -10       | -1.07288         | -0.00061              | PASS    |
|           |           |                      |              |            | 0         | -2.03133         | -0.00116              | PASS    |
|           |           |                      |              |            | 10        | 2.24590          | 0.00128               | PASS    |
|           |           |                      |              |            | 20        | -3.04699         | -0.00174              | PASS    |
|           |           |                      |              |            | 30        | -3.50475         | -0.00200              | PASS    |
|           |           |                      |              |            | 40        | -3.46184         | -0.00197              | PASS    |
|           |           |                      |              |            | 50        | -1.74522         | -0.00100              | PASS    |
|           |           | 5                    | LCH          | VN         | -30       | -4.66347         | -0.00272              | PASS    |
|           |           |                      |              |            | -20       | -2.84672         | -0.00166              | PASS    |
|           |           |                      |              |            | -10       | -1.65939         | -0.00097              | PASS    |
|           |           |                      |              |            | 0         | 2.40326          | 0.00140               | PASS    |
|           |           |                      |              |            | 10        | -0.98705         | -0.00058              | PASS    |
|           |           |                      |              |            | 20        | -2.40326         | -0.00140              | PASS    |
|           |           |                      |              |            | 30        | -4.50611         | -0.00263              | PASS    |
|           |           |                      |              |            | 40        | -2.20299         | -0.00129              | PASS    |
|           |           |                      |              |            | 50        | -3.33309         | -0.00195              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -44.13128        | -0.02547              | PASS    |
|           |           |                      |              |            | -20       | 0.25749          | 0.00015               | PASS    |
|           |           |                      |              |            | -10       | -2.61784         | -0.00151              | PASS    |
|           |           |                      |              |            | 0         | -4.27723         | -0.00247              | PASS    |
|           |           |                      |              |            | 10        | -3.54767         | -0.00205              | PASS    |
|           |           |                      |              |            | 20        | -2.36034         | -0.00136              | PASS    |
|           |           |                      |              |            | 30        | -3.47614         | -0.00201              | PASS    |
|           |           |                      |              |            | 40        | -1.00136         | -0.00058              | PASS    |
|           |           |                      |              |            | 50        | 0.98705          | 0.00057               | PASS    |
|           |           |                      | HCH          | VN         | -30       | 0.04292          | 0.00002               | PASS    |
|           |           |                      |              |            | -20       | -2.04563         | -0.00117              | PASS    |
|           |           |                      |              |            | -10       | -5.67913         | -0.00324              | PASS    |
|           |           |                      |              |            | 0         | -5.42164         | -0.00309              | PASS    |
|           |           |                      |              |            | 10        | -2.18868         | -0.00125              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | 20        | -3.40462         | -0.00194              | PASS    |
|           |           |                      |              |            | 30        | -4.29153         | -0.00245              | PASS    |
|           |           |                      |              |            | 40        | -1.37329         | -0.00078              | PASS    |
|           |           |                      |              |            | 50        | -4.03404         | -0.00230              | PASS    |
|           |           | 10                   | LCH          | VN         | -30       | -0.65804         | -0.00038              | PASS    |
|           |           |                      |              |            | -20       | -3.97682         | -0.00232              | PASS    |
|           |           |                      |              |            | -10       | -2.50339         | -0.00146              | PASS    |
|           |           |                      |              |            | 0         | 0.37193          | 0.00022               | PASS    |
|           |           |                      |              |            | 10        | -0.35763         | -0.00021              | PASS    |
|           |           |                      |              |            | 20        | -1.78814         | -0.00104              | PASS    |
|           |           |                      |              |            | 30        | -2.76089         | -0.00161              | PASS    |
|           |           |                      |              |            | 40        | -0.92983         | -0.00054              | PASS    |
|           |           |                      |              |            | 50        | -3.84808         | -0.00224              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -5.67913         | -0.00328              | PASS    |
|           |           |                      |              |            | -20       | -2.23160         | -0.00129              | PASS    |
|           |           |                      |              |            | -10       | -4.47750         | -0.00258              | PASS    |
|           |           |                      |              |            | 0         | -2.54631         | -0.00147              | PASS    |
|           |           |                      |              |            | 10        | -3.70503         | -0.00214              | PASS    |
|           |           |                      |              |            | 20        | -1.44482         | -0.00083              | PASS    |
|           |           |                      |              |            | 30        | -5.37872         | -0.00310              | PASS    |
|           |           |                      |              |            | 40        | -5.29289         | -0.00306              | PASS    |
|           |           |                      |              |            | 50        | 0.78678          | 0.00045               | PASS    |
|           |           |                      | HCH          | VN         | -30       | -1.83106         | -0.00105              | PASS    |
|           |           |                      |              |            | -20       | -3.03268         | -0.00173              | PASS    |
|           |           |                      |              |            | -10       | -1.08719         | -0.00062              | PASS    |
|           |           |                      |              |            | 0         | 1.24455          | 0.00071               | PASS    |
|           |           |                      |              |            | 10        | 1.08719          | 0.00062               | PASS    |
|           |           |                      |              |            | 20        | 0.18597          | 0.00011               | PASS    |
|           |           |                      |              |            | 30        | -0.41485         | -0.00024              | PASS    |
|           |           |                      |              |            | 40        | -0.35763         | -0.00020              | PASS    |
|           |           |                      |              |            | 50        | 0.81539          | 0.00047               | PASS    |
|           |           | 15                   | LCH          | VN         | -30       | -2.81811         | -0.00164              | PASS    |
|           |           |                      |              |            | -20       | -1.20163         | -0.00070              | PASS    |
|           |           |                      |              |            | -10       | 0.42915          | 0.00025               | PASS    |
|           |           |                      |              |            | 0         | -1.77383         | -0.00103              | PASS    |
|           |           |                      |              |            | 10        | -1.27316         | -0.00074              | PASS    |
|           |           |                      |              |            | 20        | -1.64509         | -0.00096              | PASS    |
|           |           |                      |              |            | 30        | -0.88692         | -0.00052              | PASS    |
|           |           |                      |              |            | 40        | -2.20299         | -0.00128              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      | MCH          | VN         | 50        | -0.71526         | -0.00042              | PASS    |
|           |           |                      |              |            | -30       | -1.74522         | -0.00101              | PASS    |
|           |           |                      |              |            | -20       | -3.79086         | -3.79086              | PASS    |
|           |           |                      |              |            | -10       | -0.65804         | -0.00038              | PASS    |
|           |           |                      |              |            | 0         | -2.81811         | -0.00163              | PASS    |
|           |           |                      |              |            | 10        | -1.00136         | -0.00058              | PASS    |
|           |           |                      |              |            | 20        | -1.07288         | -0.00062              | PASS    |
|           |           |                      |              |            | 30        | -3.43323         | -0.00198              | PASS    |
|           |           |                      |              |            | 40        | 0.01431          | 0.00001               | PASS    |
|           |           |                      |              |            | 50        | -3.80516         | -0.00220              | PASS    |
|           |           |                      | HCH          | VN         | -30       | 0.28610          | 0.00016               | PASS    |
|           |           |                      |              |            | -20       | -1.75953         | -0.00101              | PASS    |
|           |           |                      |              |            | -10       | 0.08583          | 0.00005               | PASS    |
|           |           |                      |              |            | 0         | -1.80244         | -0.00103              | PASS    |
|           |           |                      |              |            | 10        | -1.21593         | -0.00070              | PASS    |
|           |           |                      |              |            | 20        | -2.84672         | -0.00163              | PASS    |
|           |           |                      |              |            | 30        | -0.28610         | -0.00016              | PASS    |
|           |           |                      |              |            | 40        | -2.16007         | -0.00124              | PASS    |
|           |           |                      |              |            | 50        | -0.55790         | -0.00032              | PASS    |
|           |           | 20                   | LCH          | VN         | -30       | -5.72205         | -0.00333              | PASS    |
|           |           |                      |              |            | -20       | -4.79221         | -0.00279              | PASS    |
|           |           |                      |              |            | -10       | -4.10557         | -0.00239              | PASS    |
|           |           |                      |              |            | 0         | -5.06401         | -0.00294              | PASS    |
|           |           |                      |              |            | 10        | 15.89298         | 0.00924               | PASS    |
|           |           |                      |              |            | 20        | -5.43594         | -0.00316              | PASS    |
|           |           |                      |              |            | 30        | -4.29153         | -0.00250              | PASS    |
|           |           |                      |              |            | 40        | -2.21729         | -0.00129              | PASS    |
|           |           |                      |              |            | 50        | -2.91824         | -0.00170              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -0.15736         | -0.00009              | PASS    |
|           |           |                      |              |            | -20       | -3.94821         | -0.00228              | PASS    |
|           |           |                      |              |            | -10       | -3.97682         | -0.00230              | PASS    |
|           |           |                      |              |            | 0         | -1.43051         | -0.00083              | PASS    |
|           |           |                      |              |            | 10        | 0.31471          | 0.00018               | PASS    |
|           |           |                      |              |            | 20        | -1.41621         | -0.00082              | PASS    |
|           |           |                      |              |            | 30        | -4.10557         | -0.00237              | PASS    |
|           |           |                      |              |            | 40        | -0.88692         | -0.00051              | PASS    |
|           |           |                      |              |            | 50        | -1.88827         | -0.00109              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -2.81811         | -0.00161              | PASS    |
|           |           |                      |              |            | -20       | 3.01838          | 0.00173               | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | -10       | -5.95093         | -0.00341              | PASS    |
|           |           |                      |              |            | 0         | -2.11716         | -0.00121              | PASS    |
|           |           |                      |              |            | 10        | 0.24319          | 0.00014               | PASS    |
|           |           |                      |              |            | 20        | -3.44753         | -0.00198              | PASS    |
|           |           |                      |              |            | 30        | -2.97546         | -0.00171              | PASS    |
|           |           |                      |              |            | 40        | -1.33038         | -0.00076              | PASS    |
|           |           |                      |              |            | 50        | -1.93119         | -0.00111              | PASS    |

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END