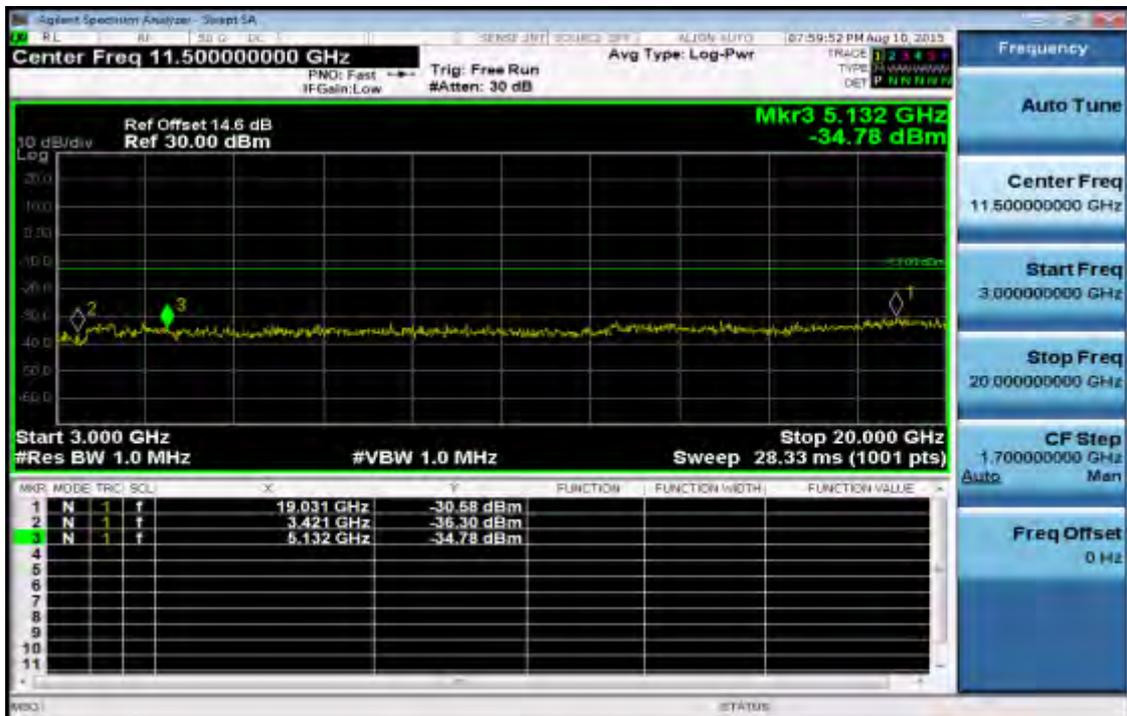
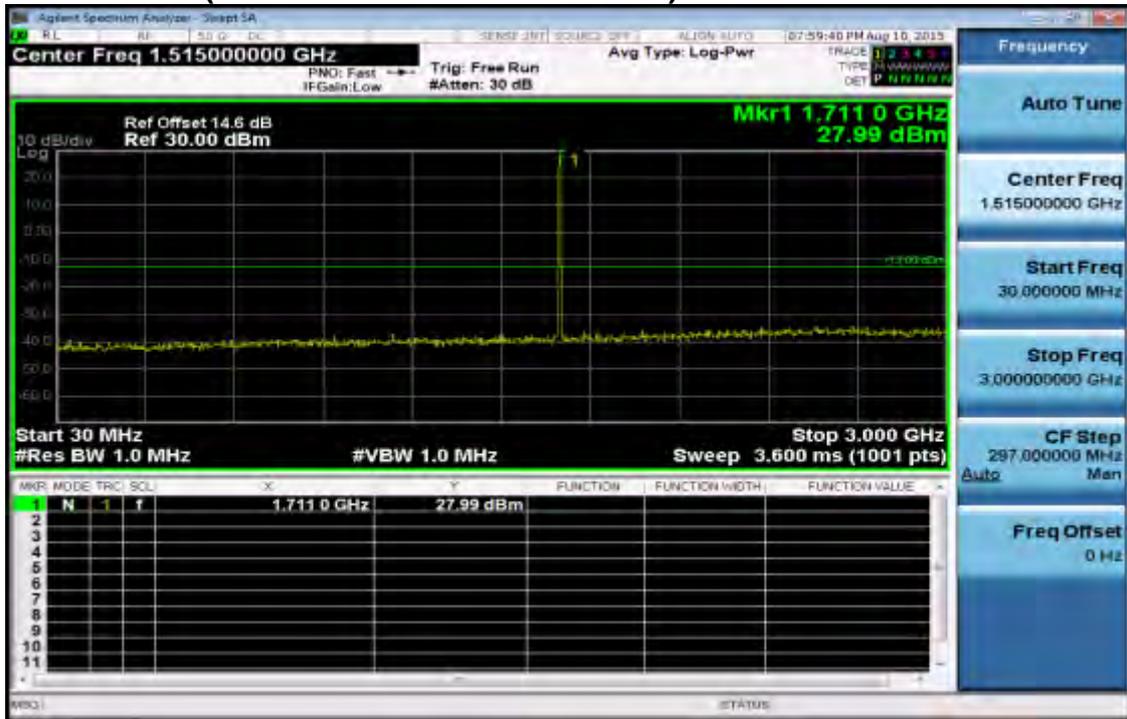


Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest

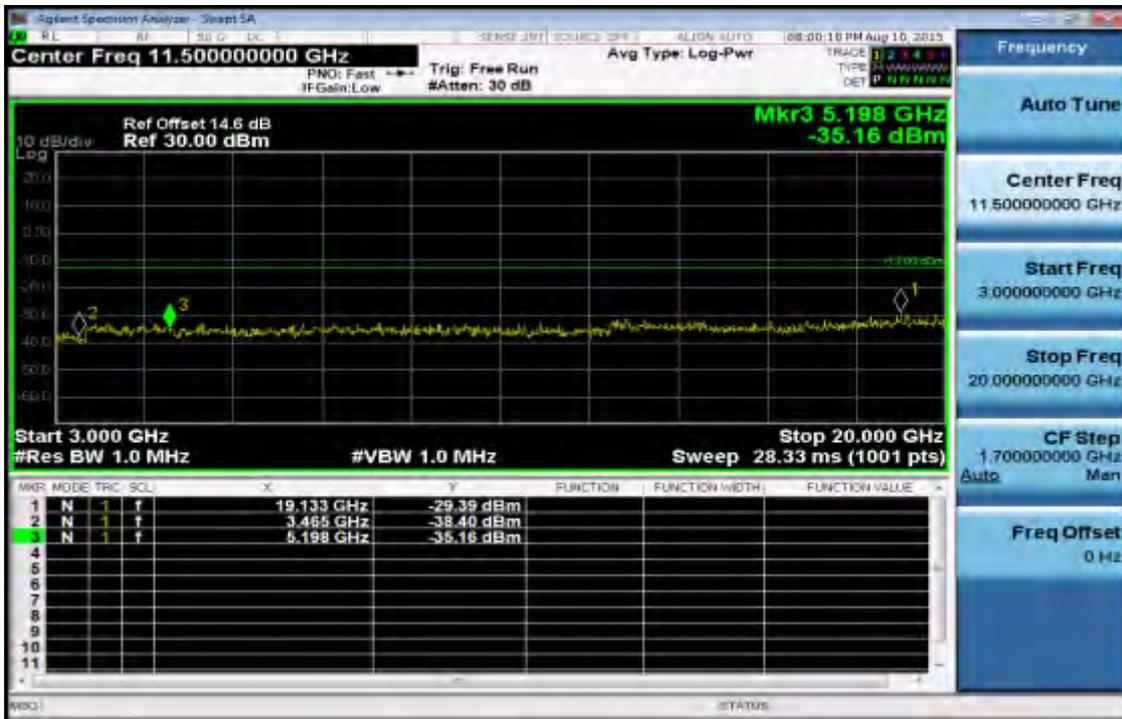
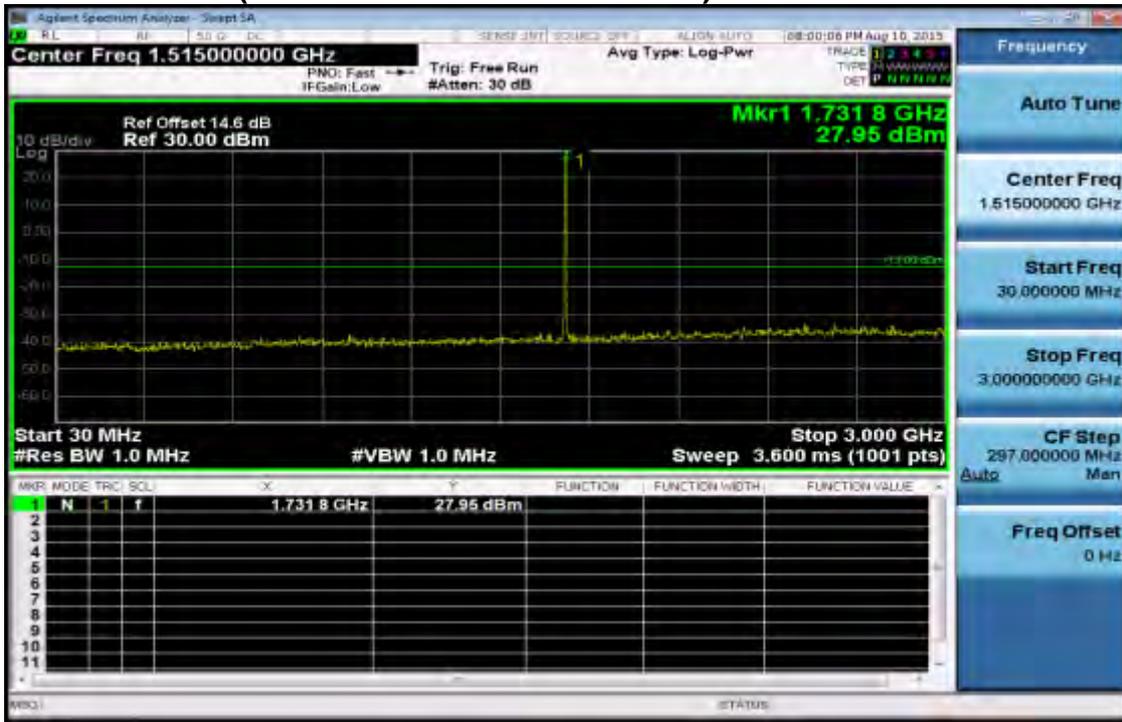


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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**

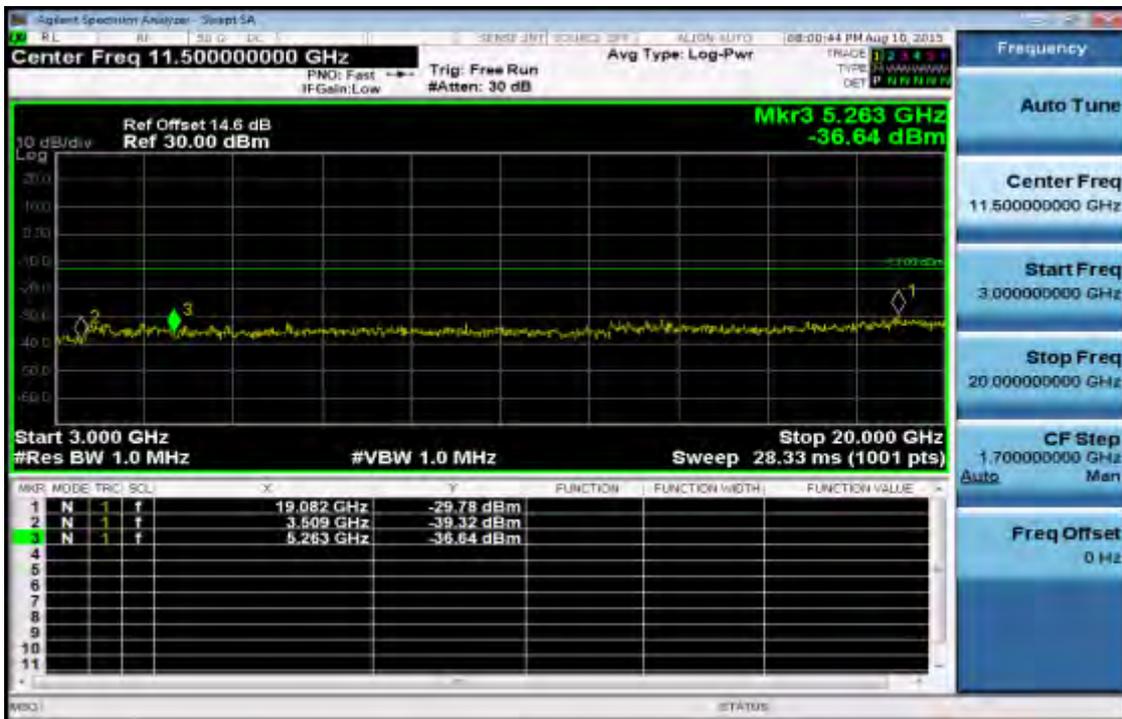
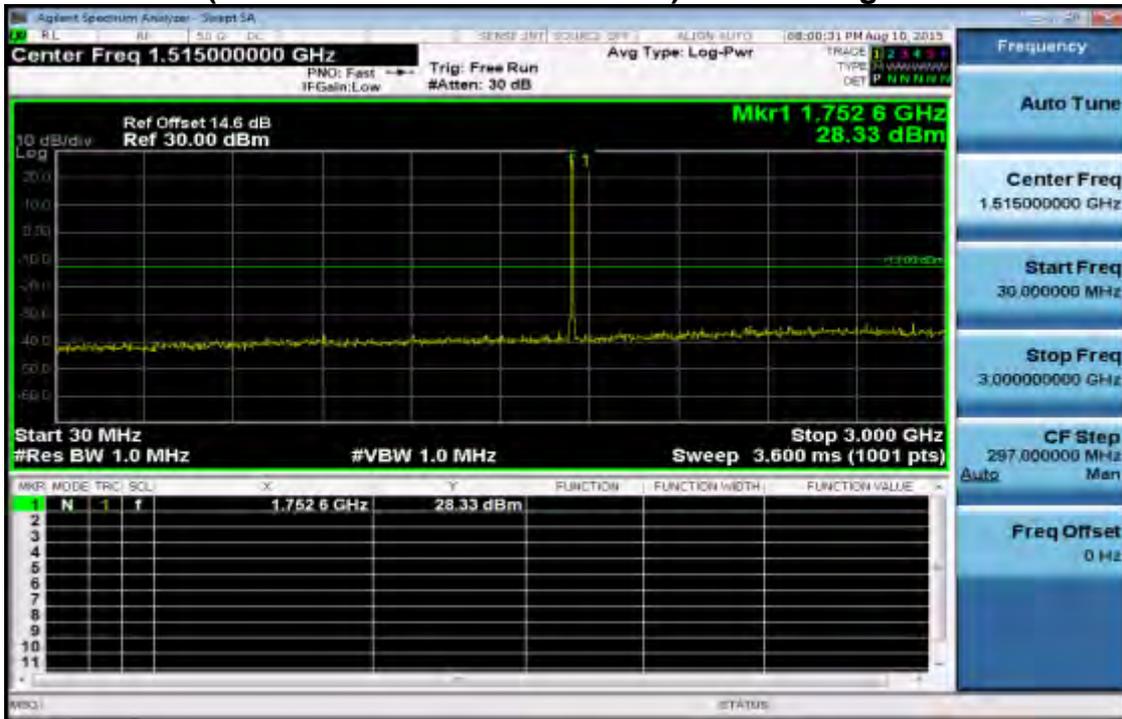


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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 5) Channel Highest**



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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4  
 (QPSK RB Number: 6 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4  
 (QPSK RB Number: 6 Offset: 0) Channel Highest**

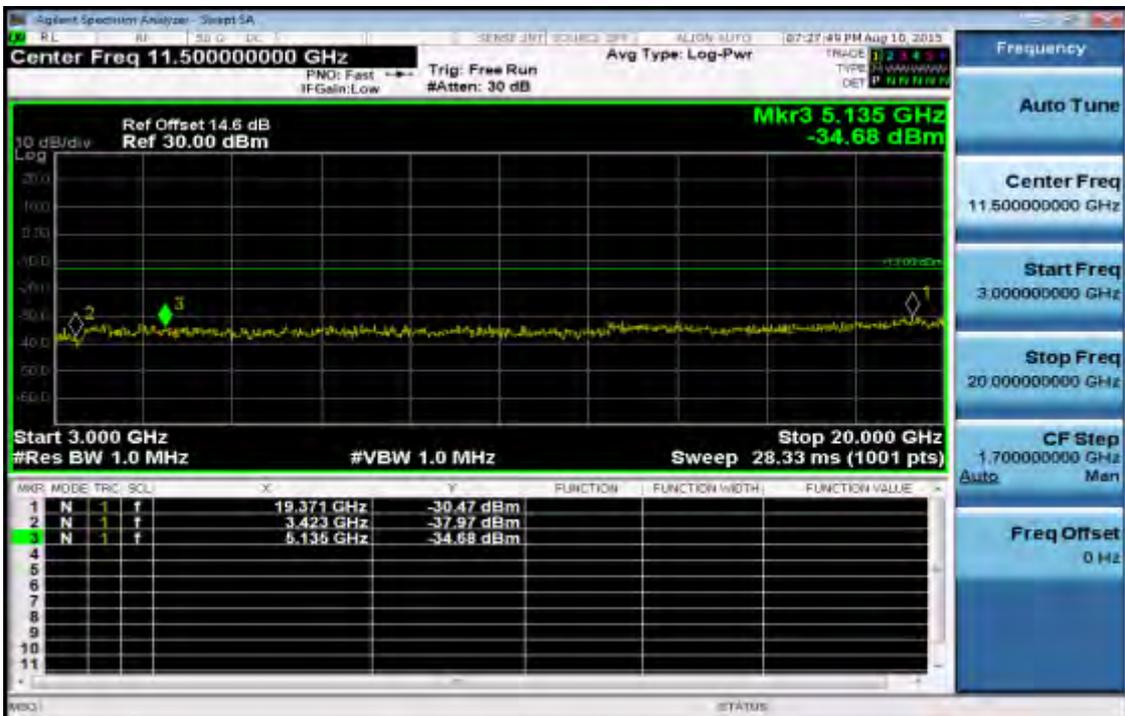
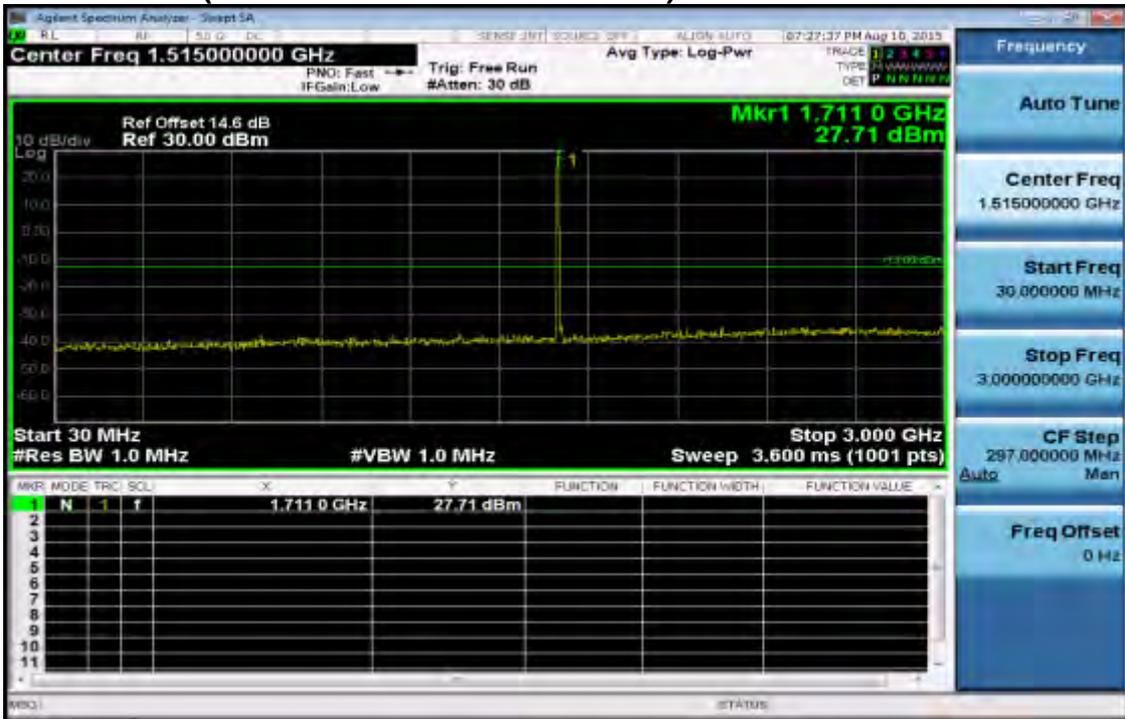


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**Out of Band emission at antenna terminals–3MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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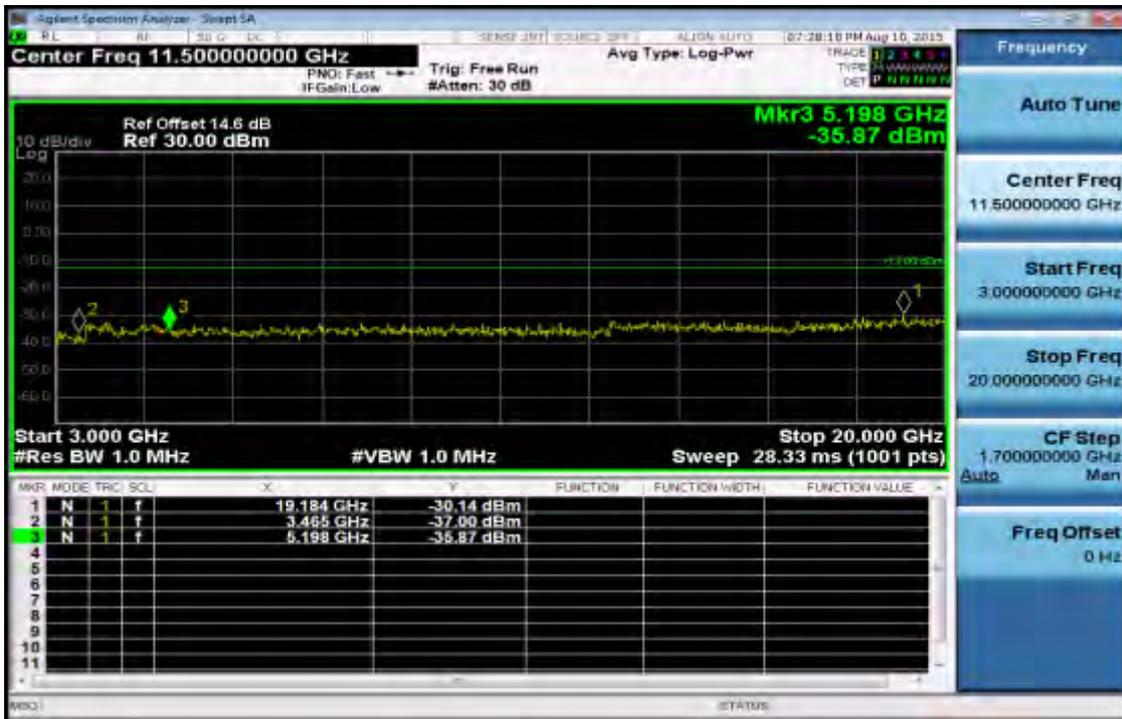
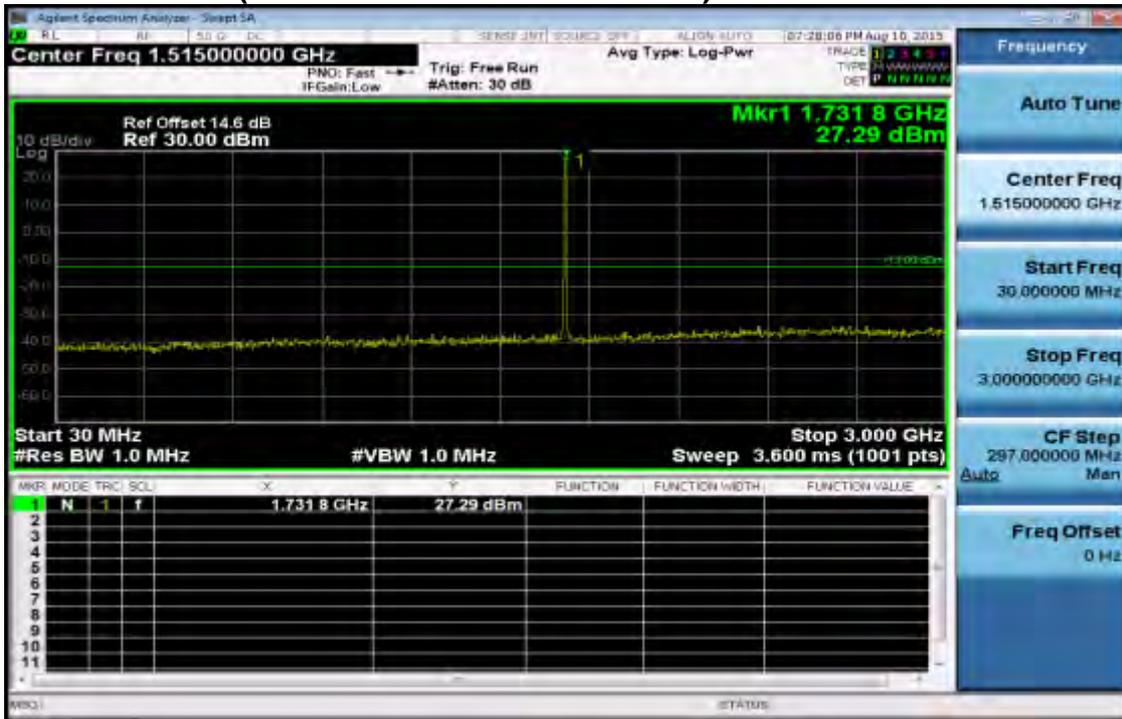
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**Out of Band emission at antenna terminals –3MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**

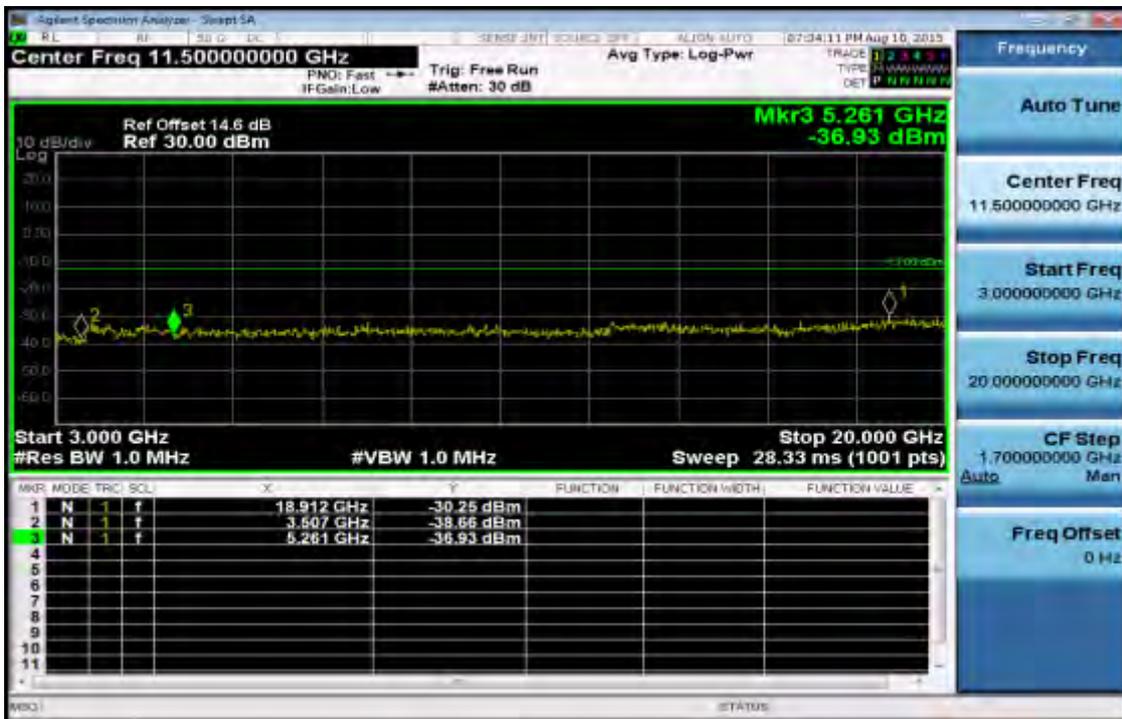
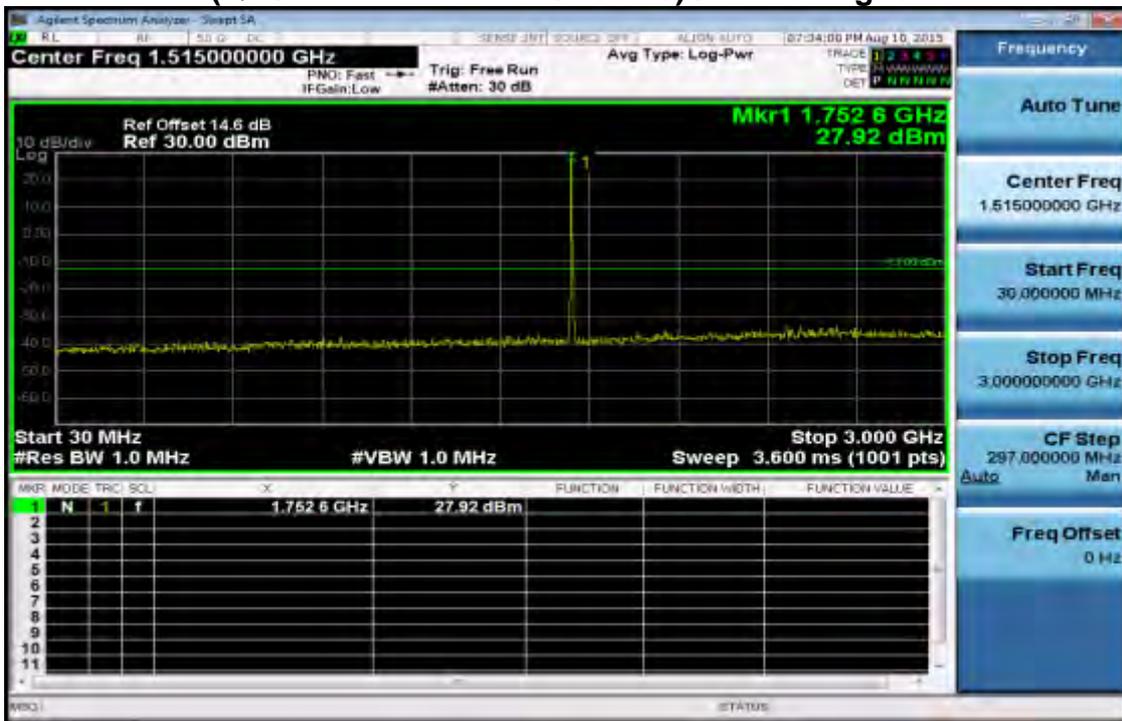


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**Out of Band emission at antenna terminals–3MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0)Channel Highest**



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**Band edge emission at antenna terminals –3MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –3MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 14) Channel Highest**



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**Band edge emission at antenna terminals –3MHz BW LTE-Band 4  
 (QPSK RB Number: 15 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –3MHz BW LTE-Band 4  
 (QPSK RB Number: 15 Offset: 0) Channel Highest**

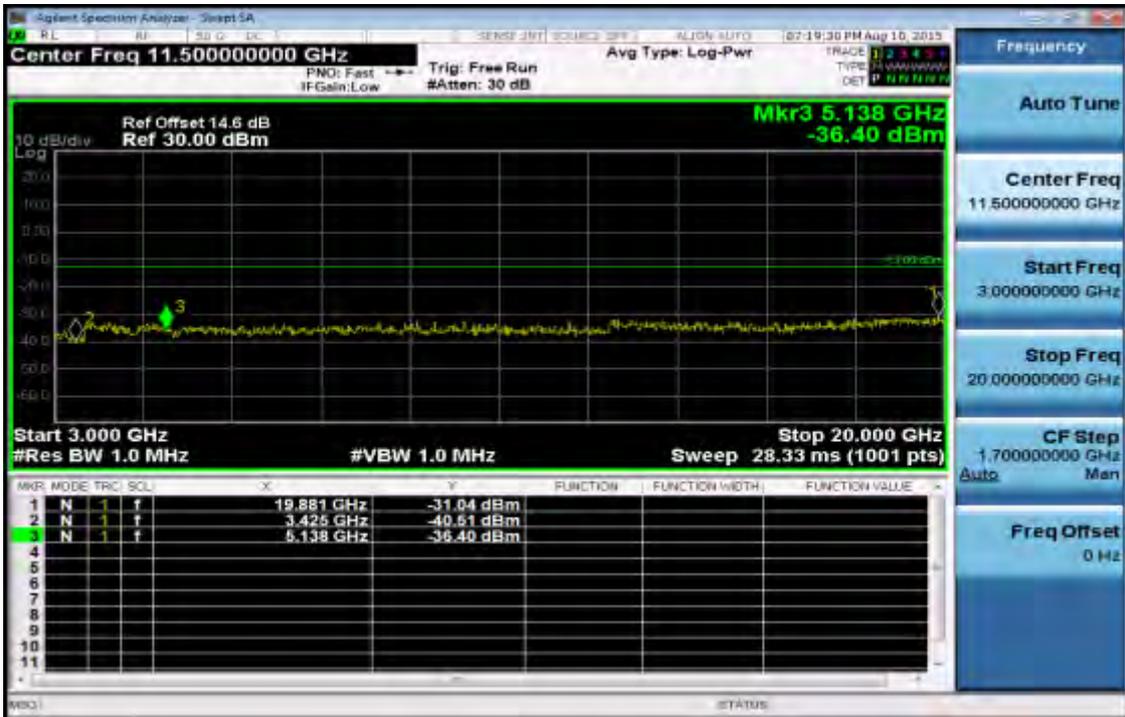
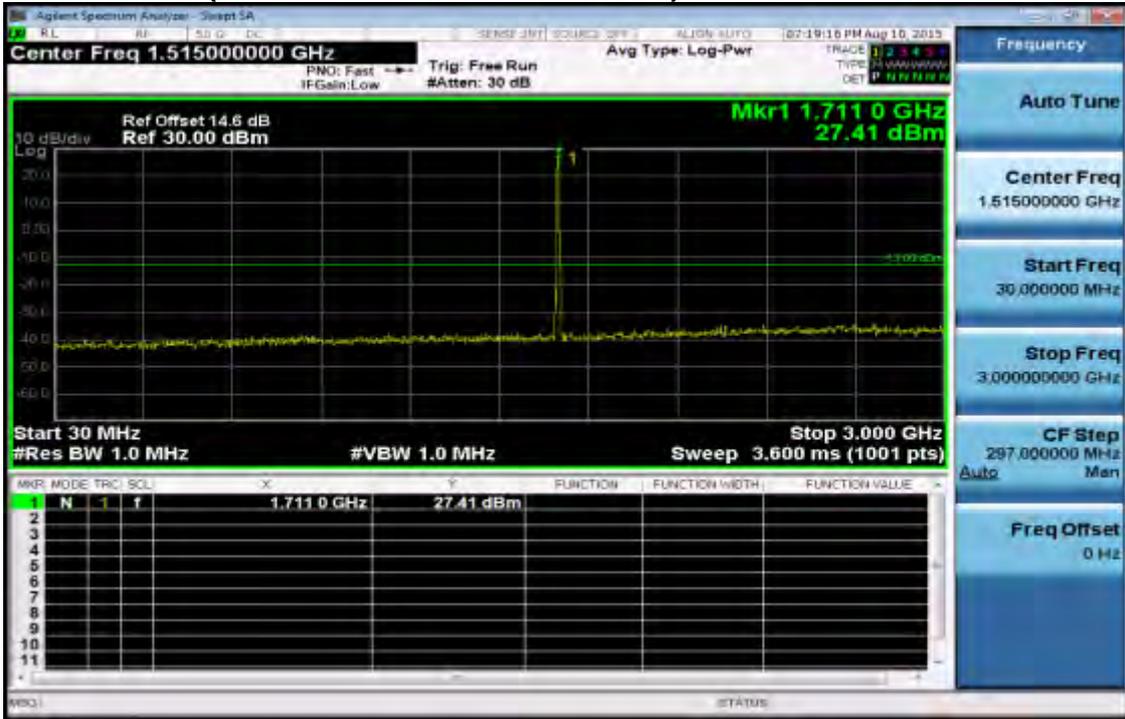


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Out of Band emission at antenna terminals–5MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0)Channel Lowest

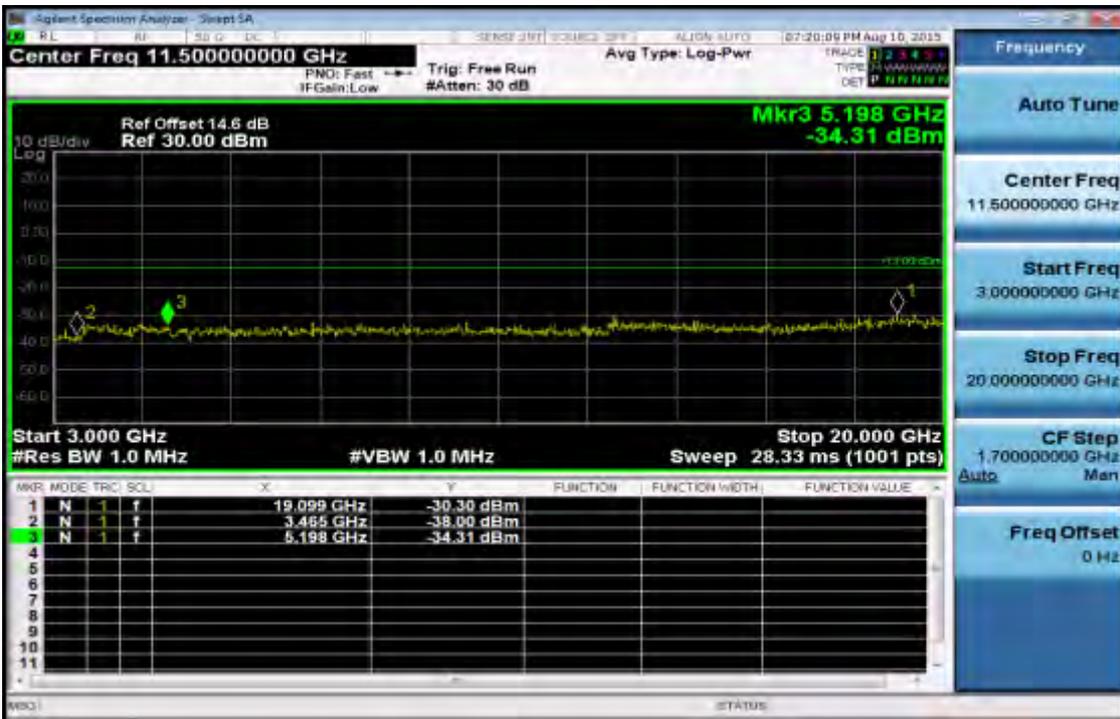
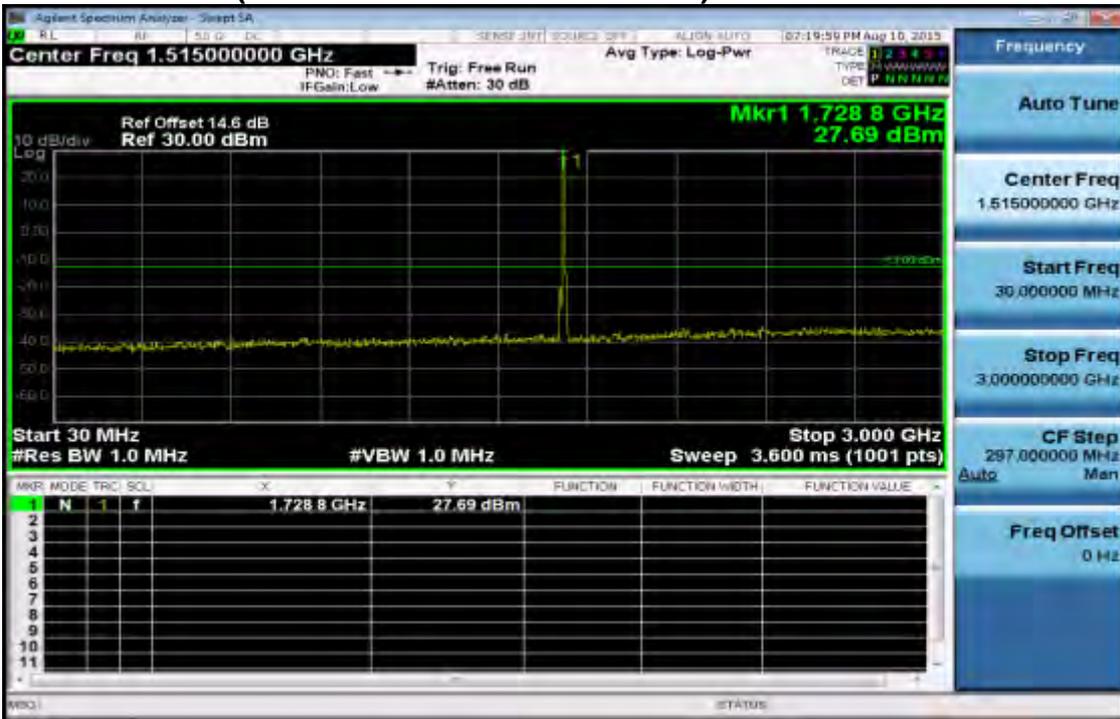


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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**

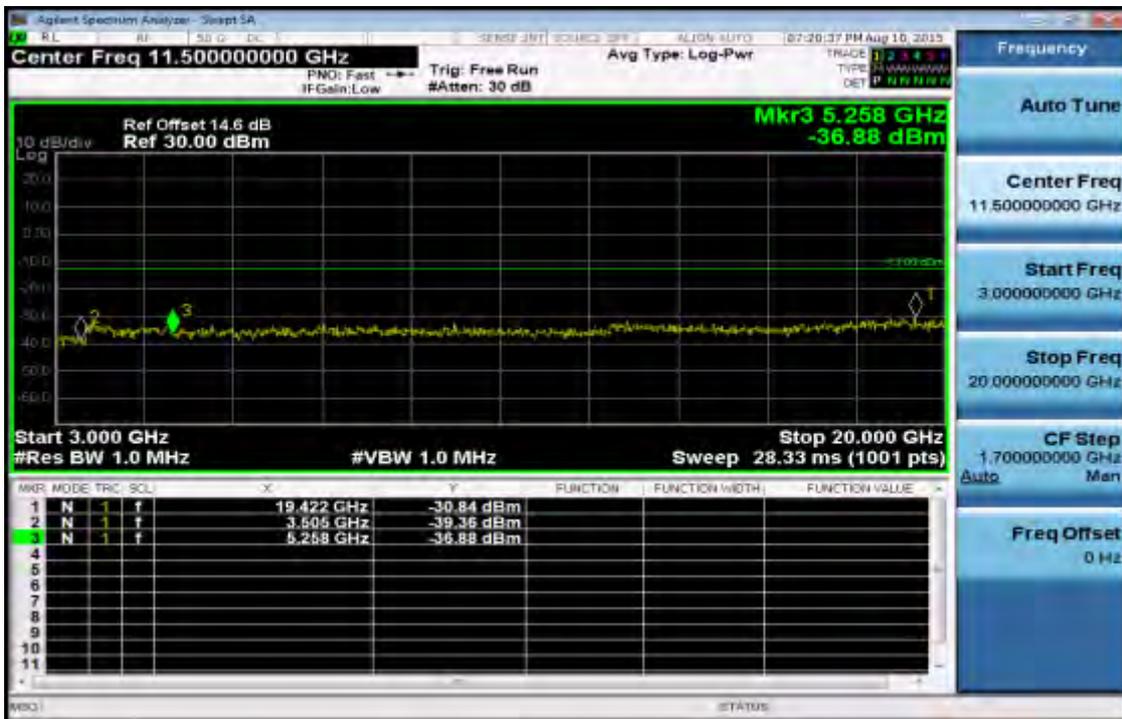
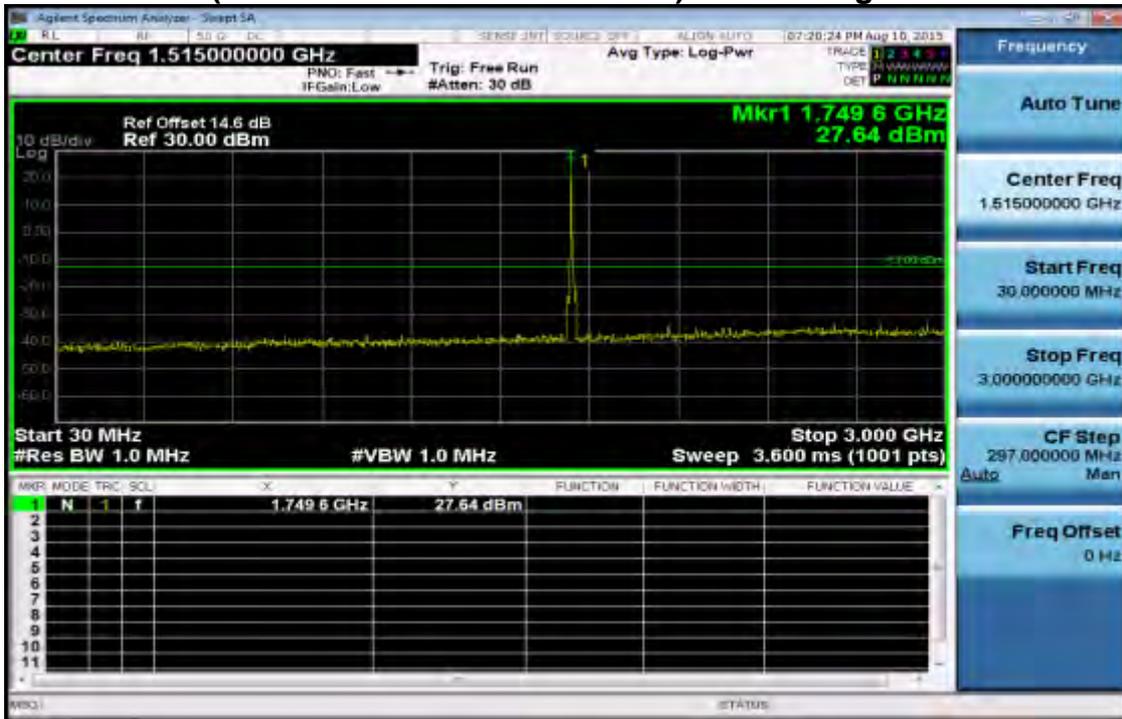


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**Out of Band emission at antenna terminals–5MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0)Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 24) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 4  
 (QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 4  
 (QPSK RB Number: 25 Offset: 0) Channel Highest**

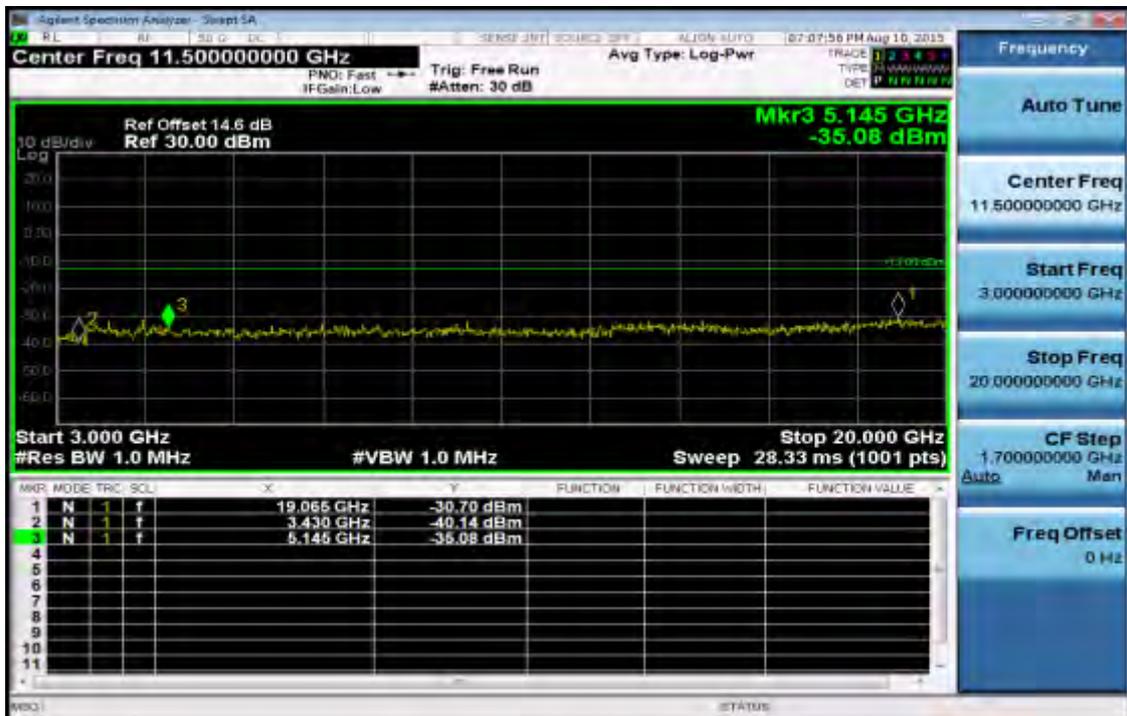
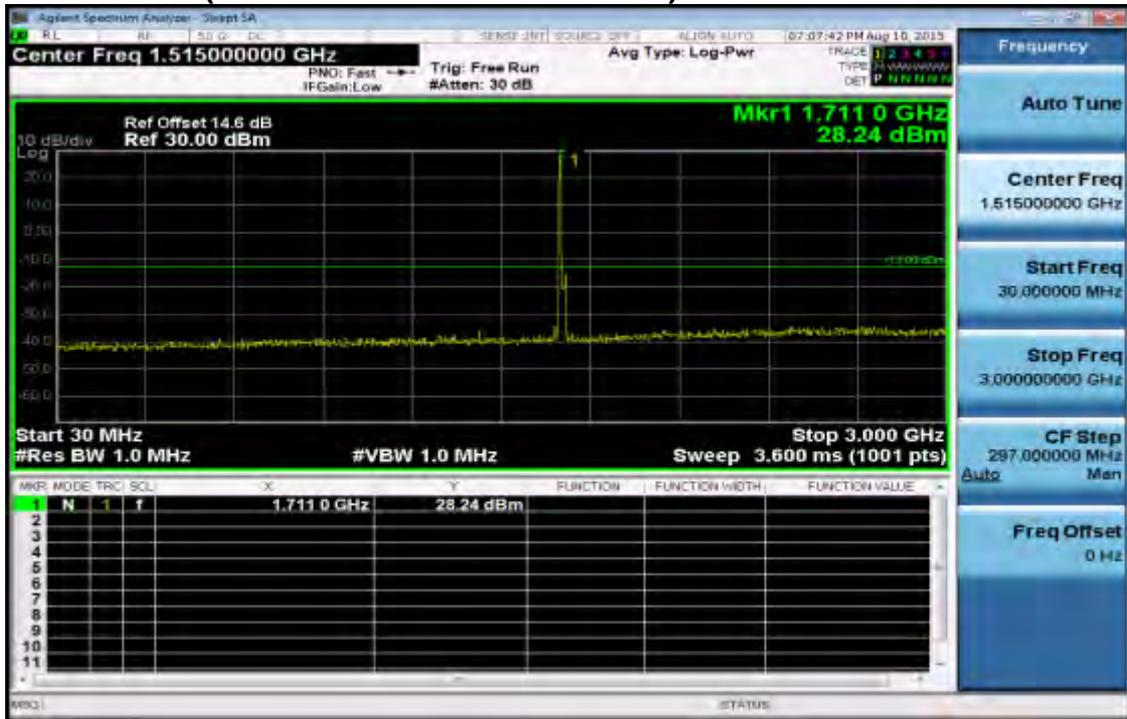


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Out of Band emission at antenna terminals–10MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest

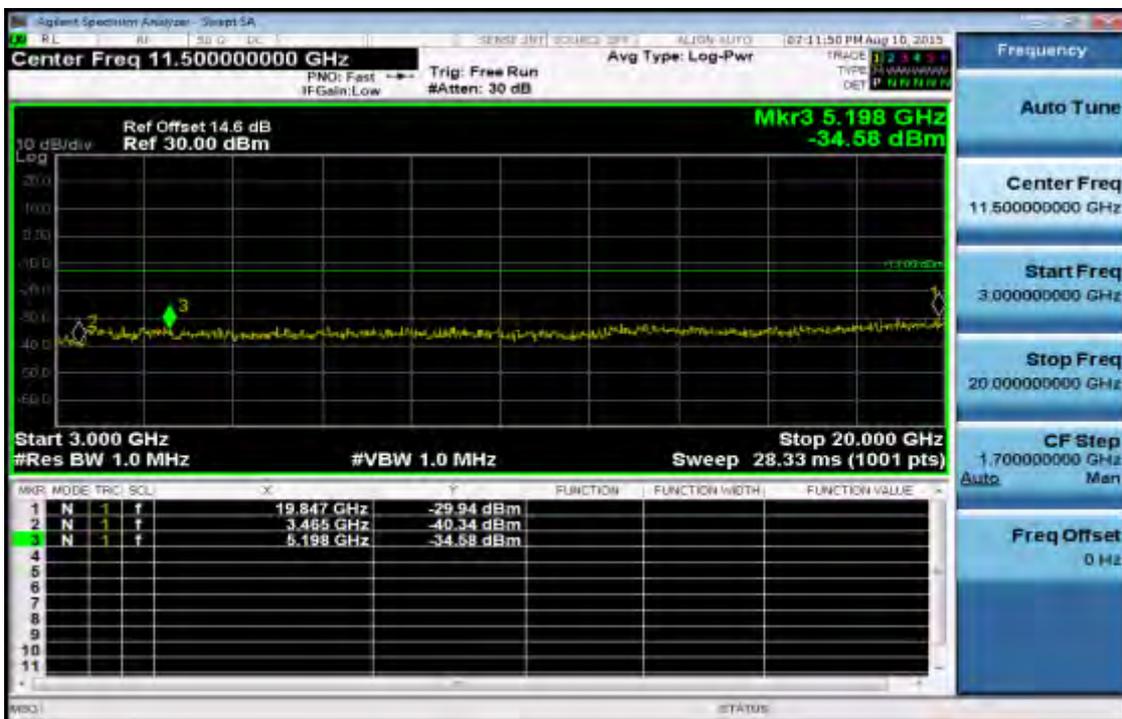
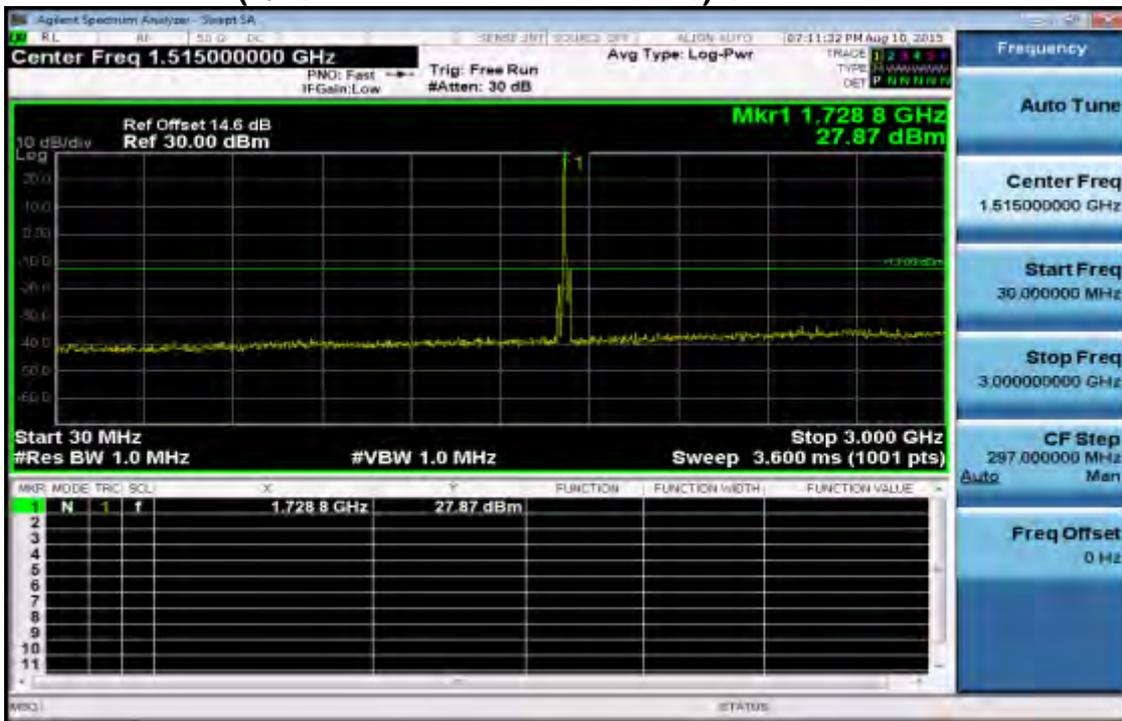


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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**

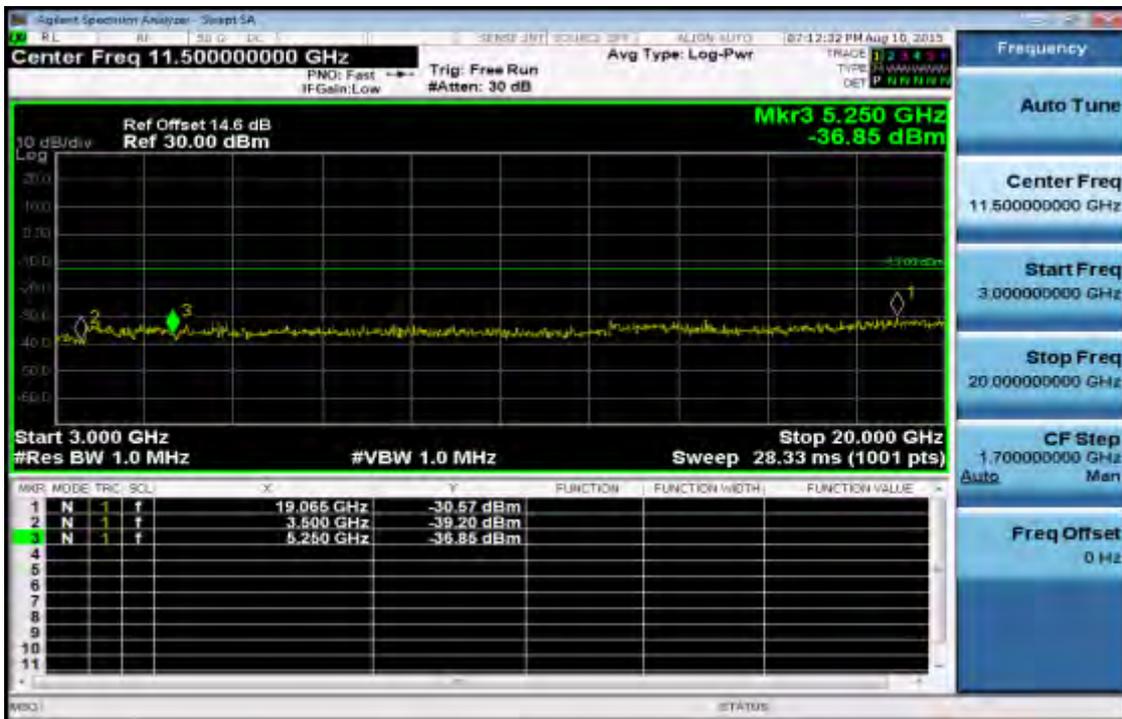
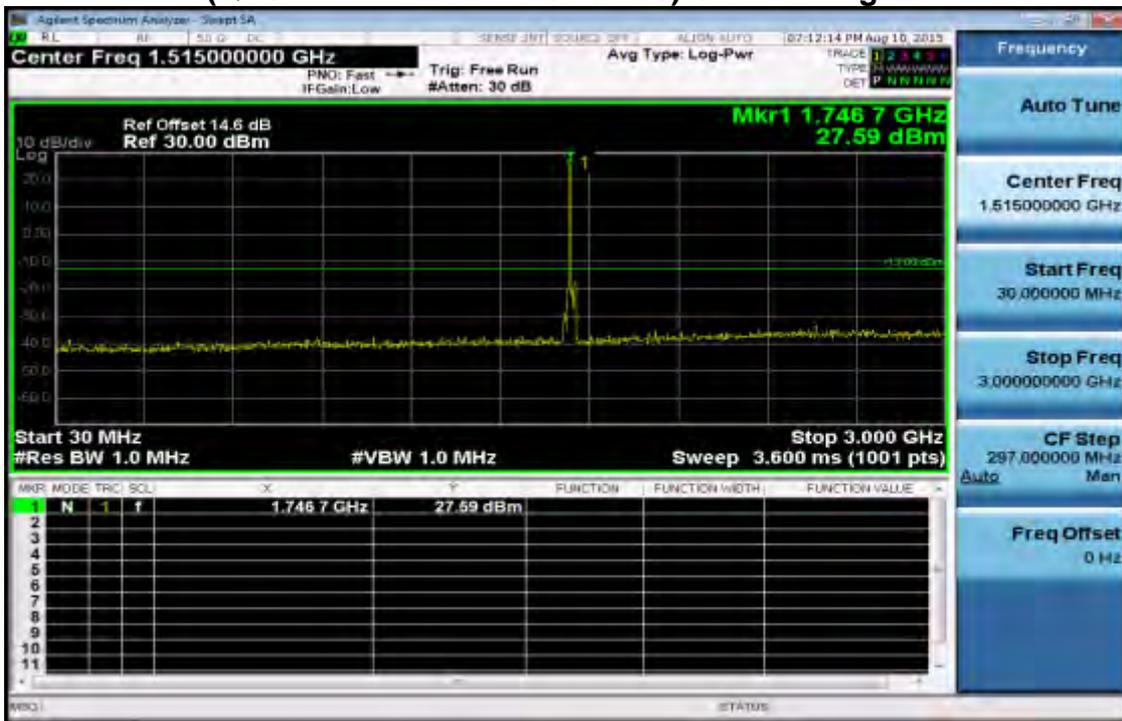


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Out of Band emission at antenna terminals–10MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Highest



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –10MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 4  
 (QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-88: Band edge emission at antenna terminals –10MHz BW LTE-Band 4  
 (QPSK RB Number: 50 Offset: 0) Channel Highest**

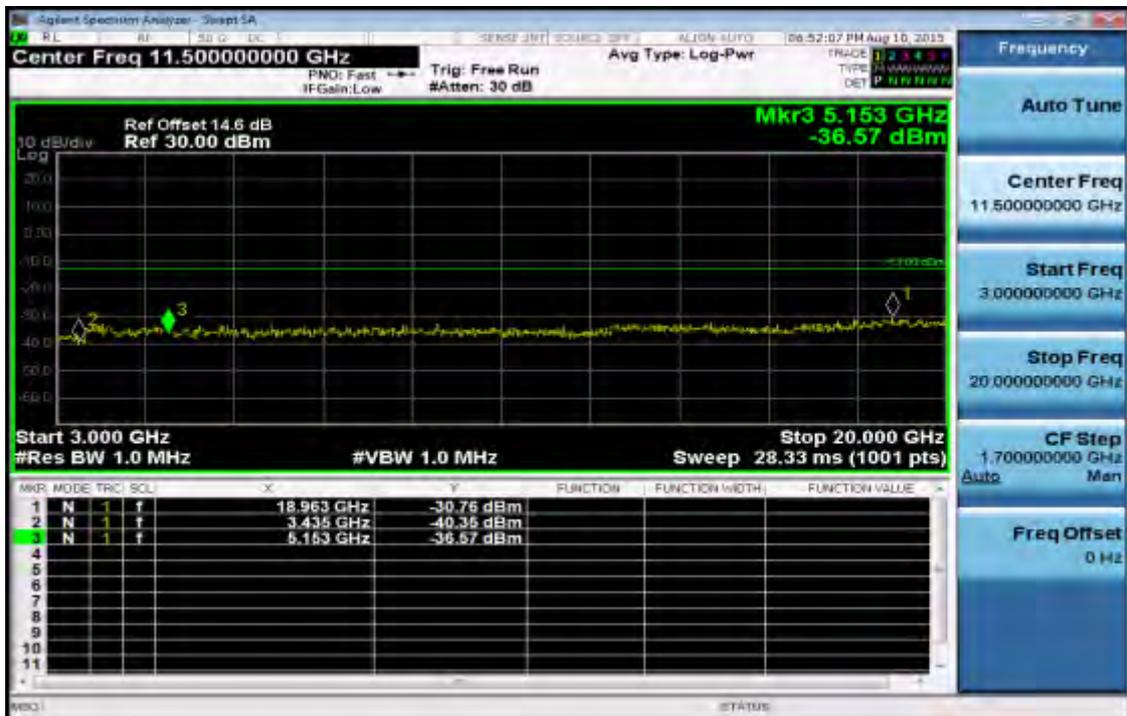
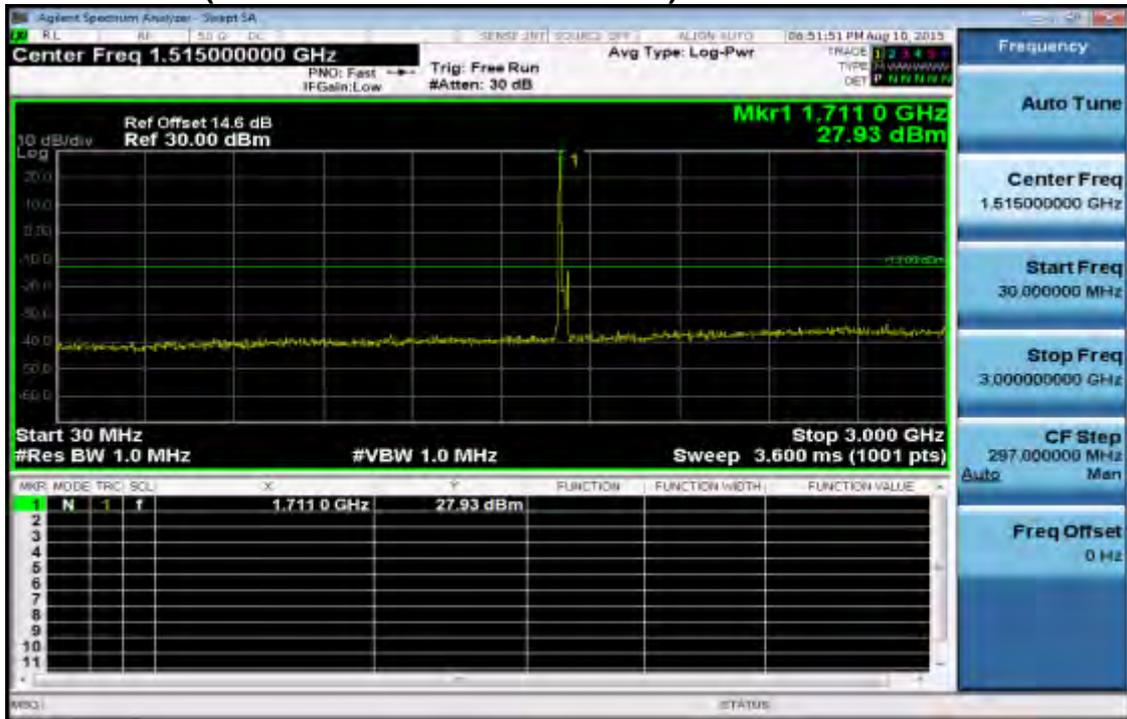


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Out of Band emission at antenna terminals–15MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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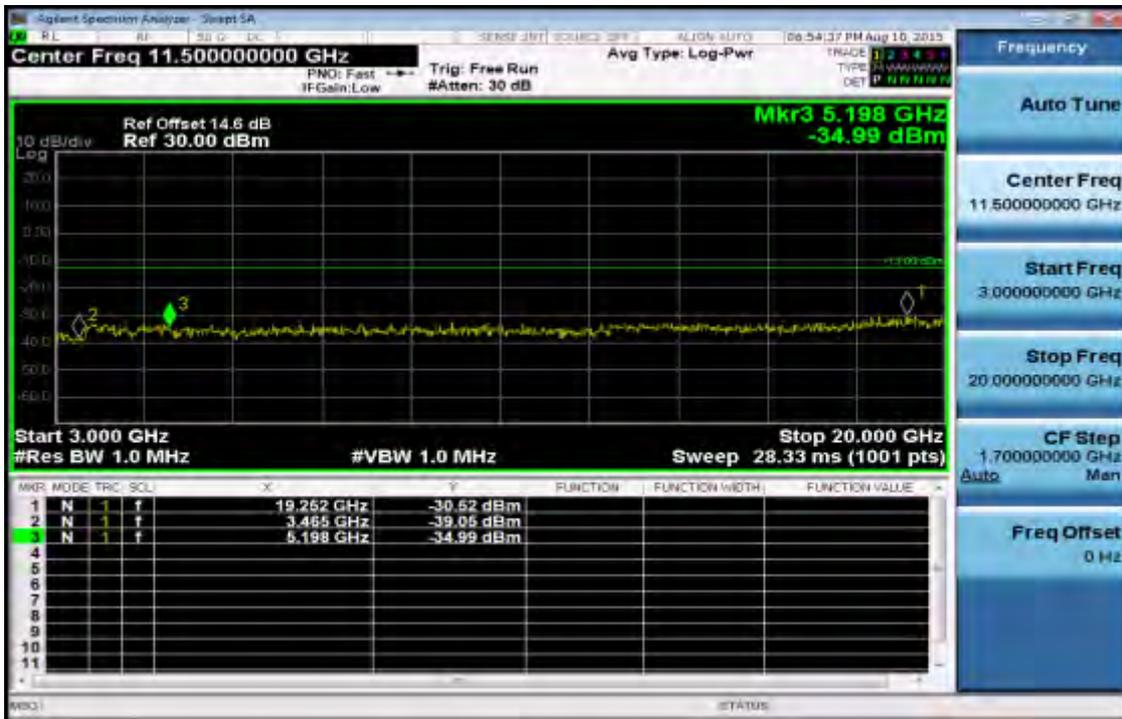
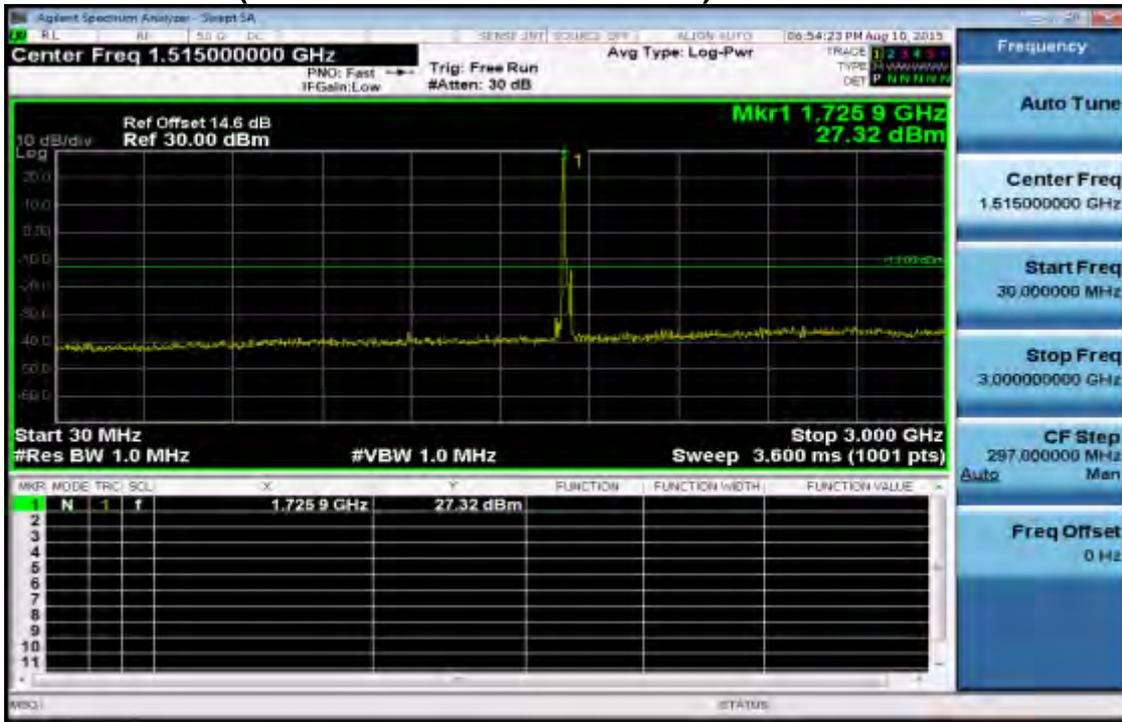
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**Out of Band emission at antenna terminals –15MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**

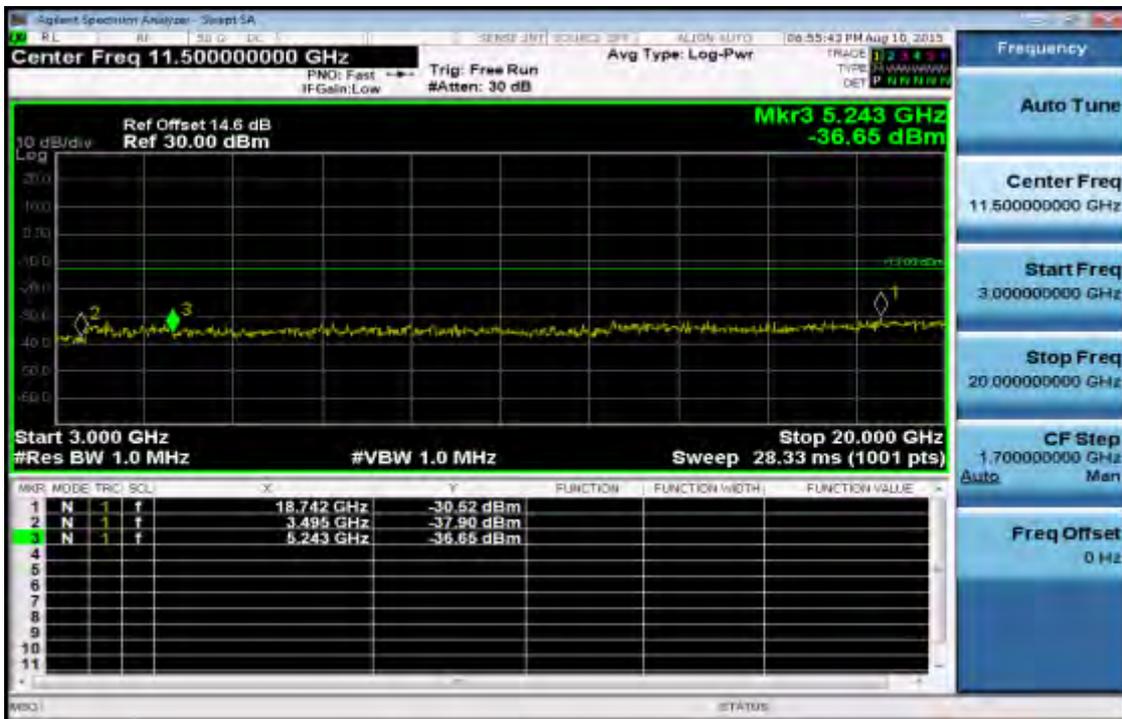
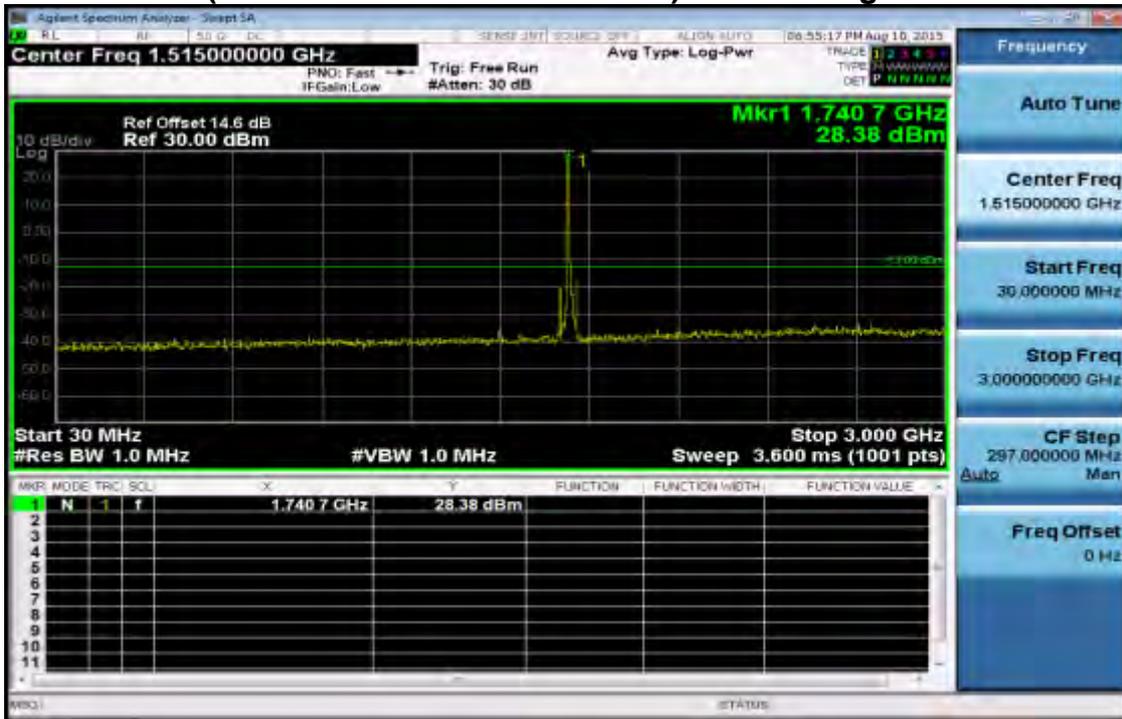


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**Out of Band emission at antenna terminals–15MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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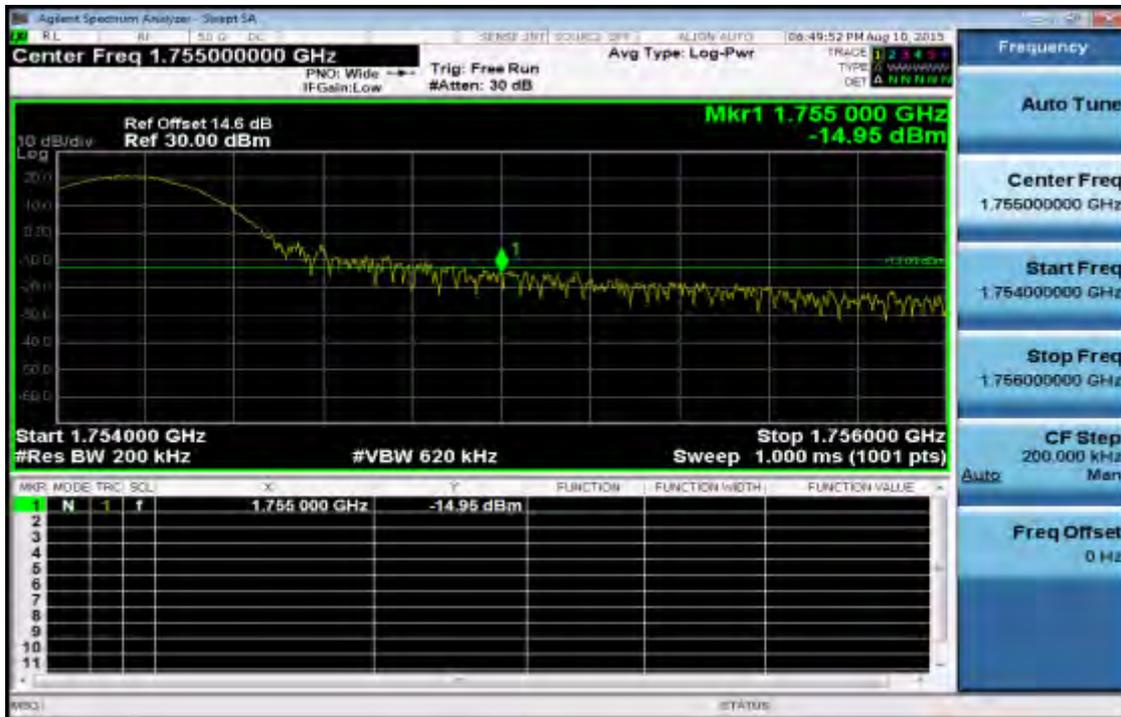
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**Band edge emission at antenna terminals –15MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –15MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 74) Channel Highest**



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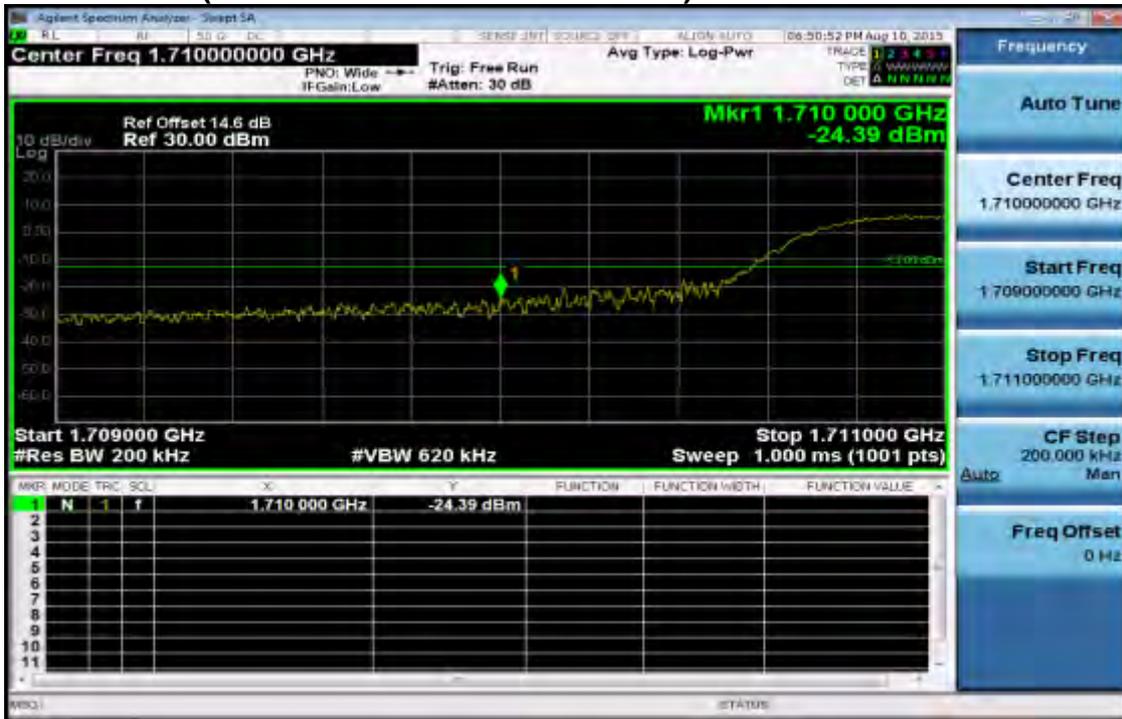
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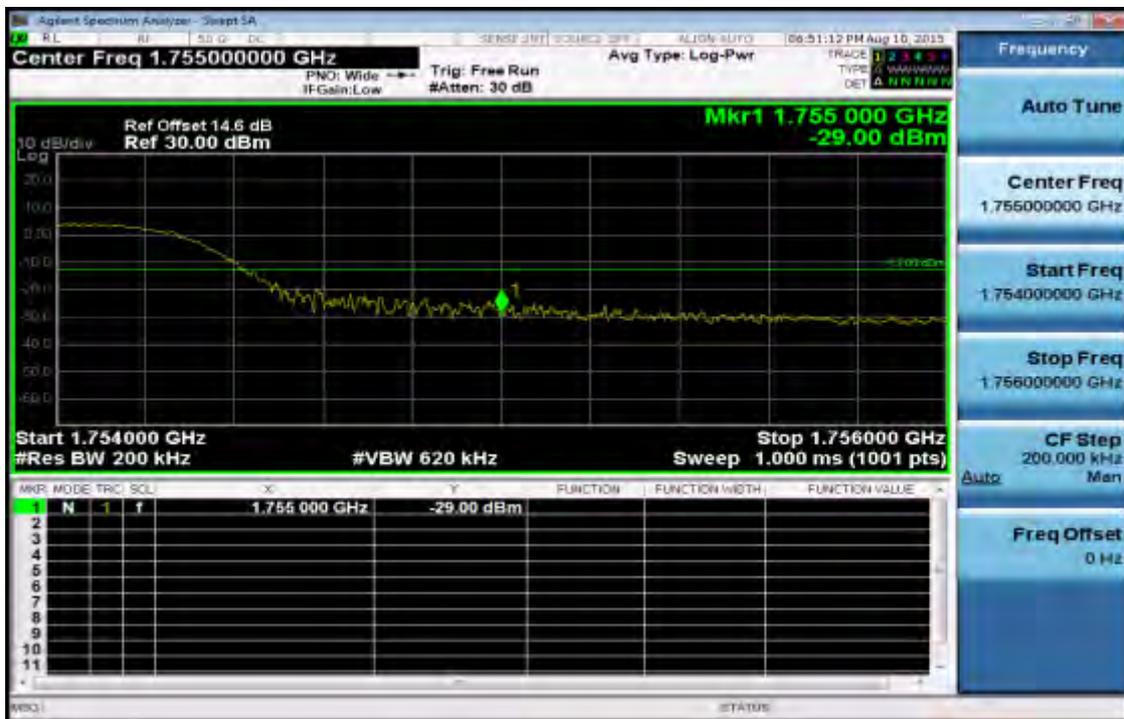
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**Band edge emission at antenna terminals –15MHz BW LTE-Band 4  
 (QPSK RB Number: 75 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –15MHz BW LTE-Band 4  
 (QPSK RB Number: 75 Offset: 0) Channel Highest**



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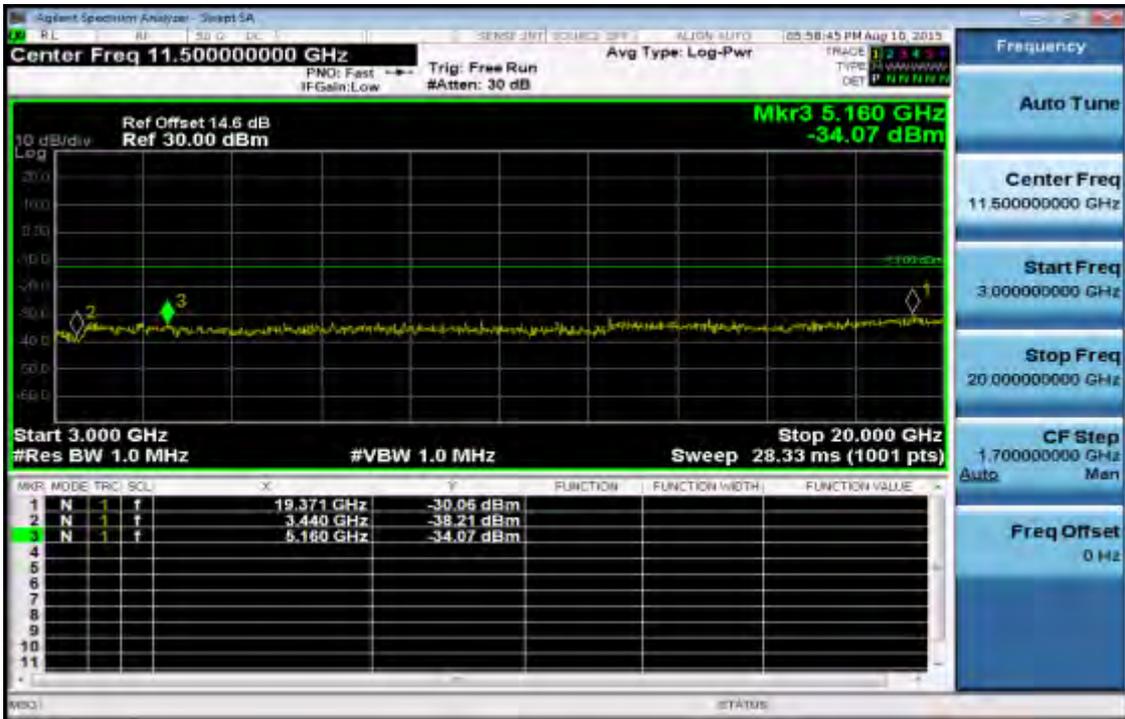
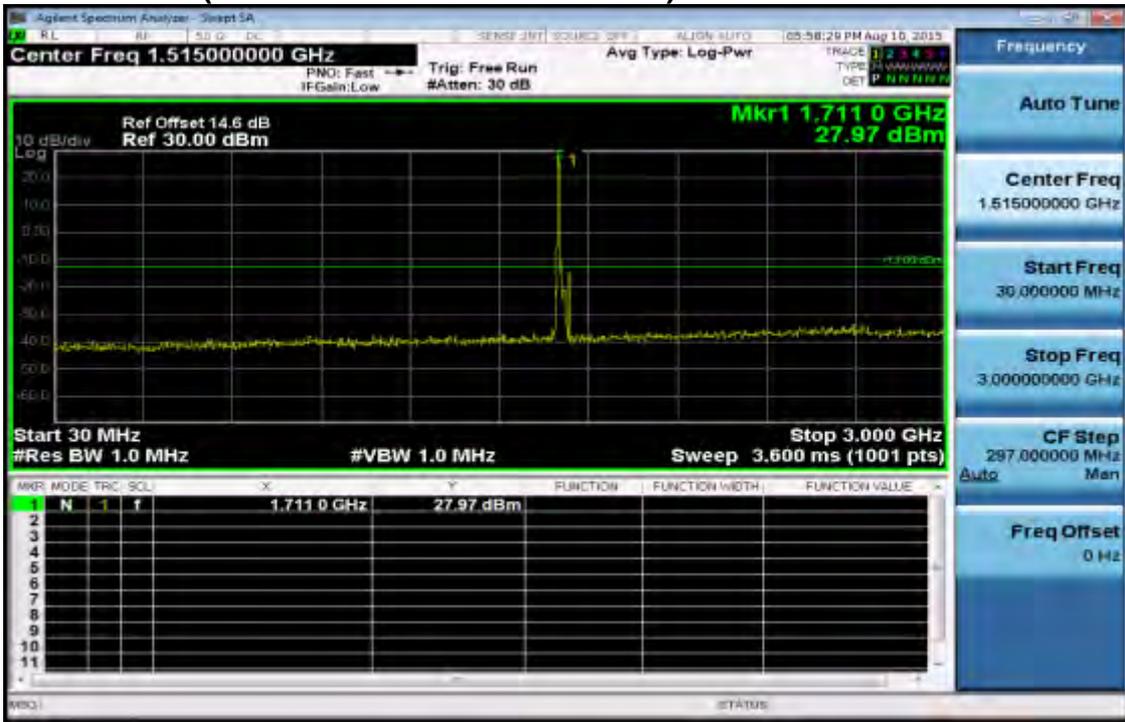
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**Out of Band emission at antenna terminals–20MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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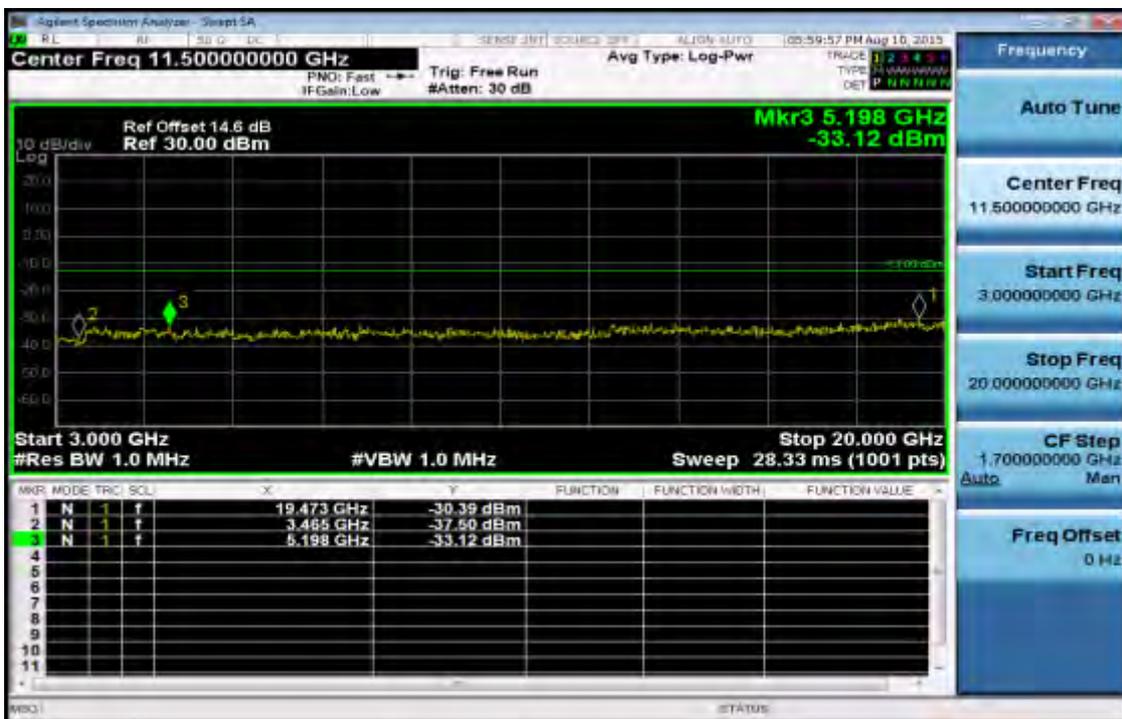
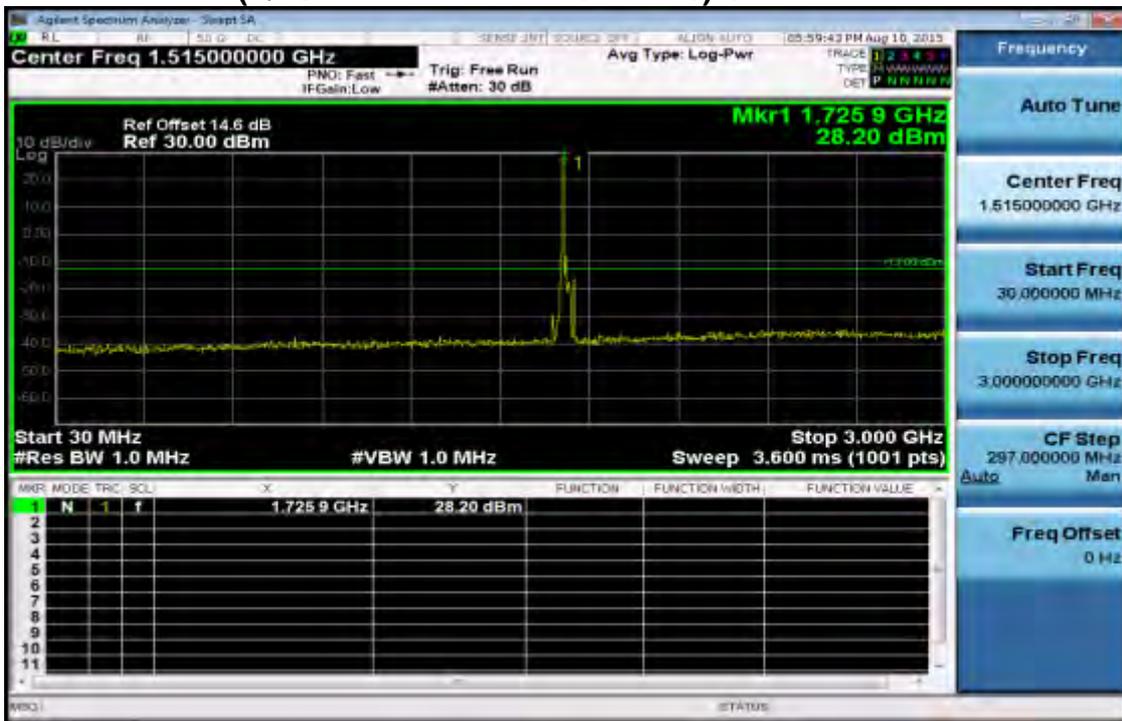
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 (QPSK RB Number: 1 Offset: 0) Channel Mid**

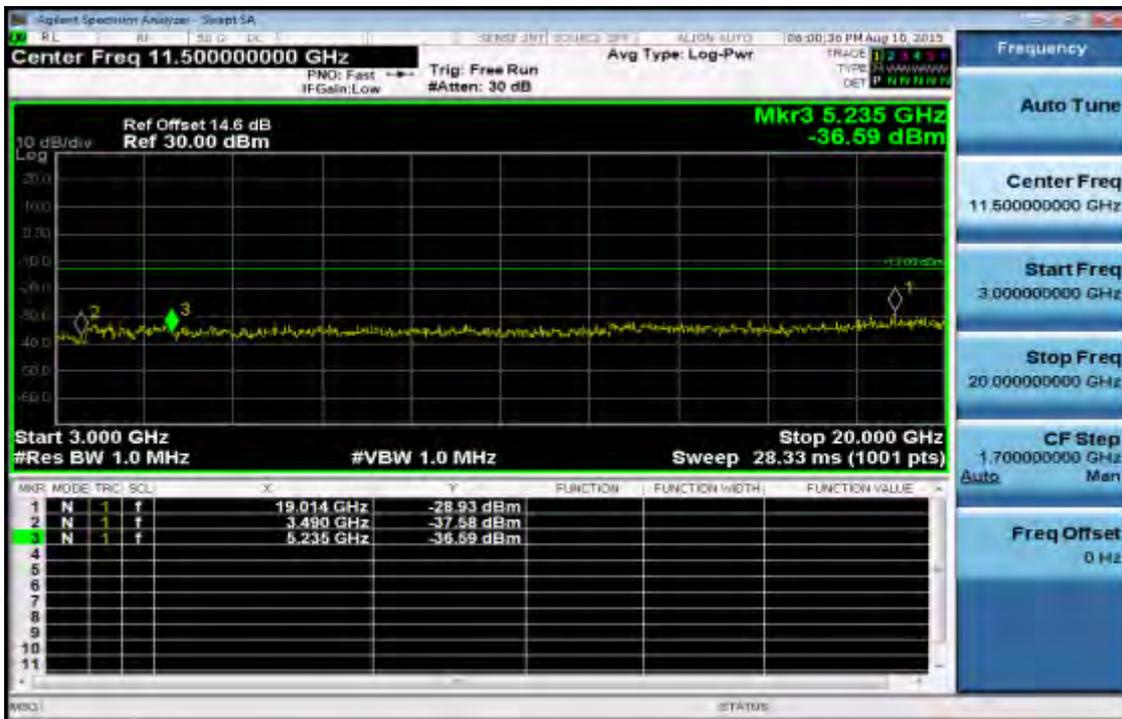
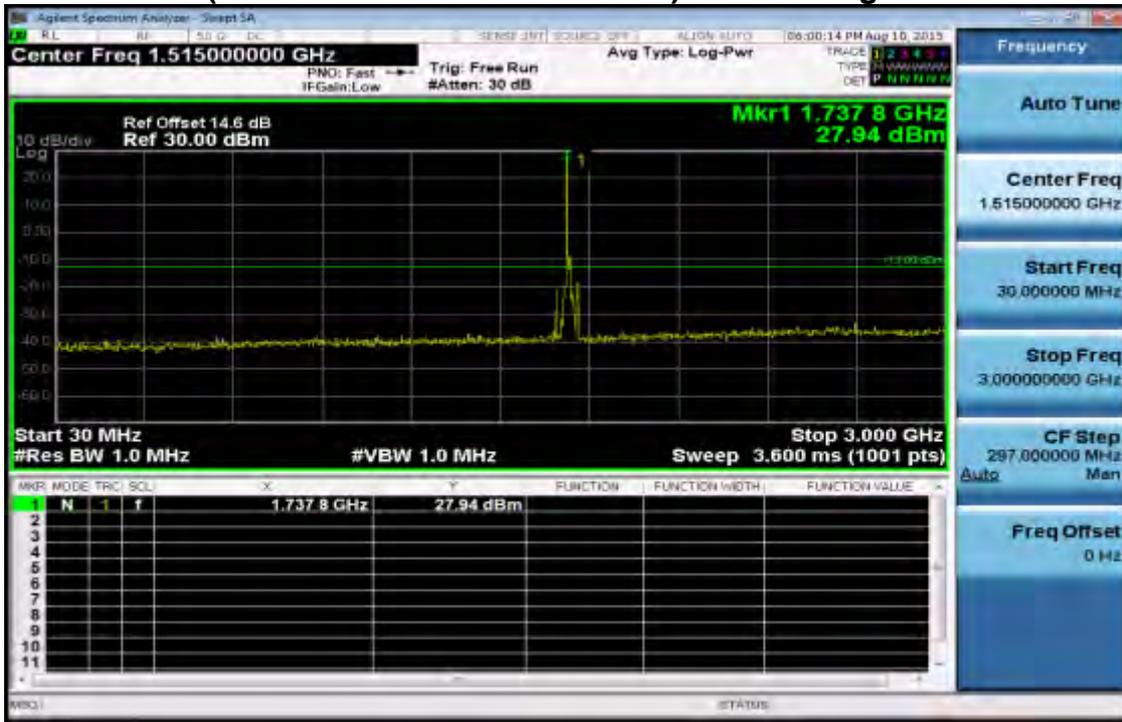


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 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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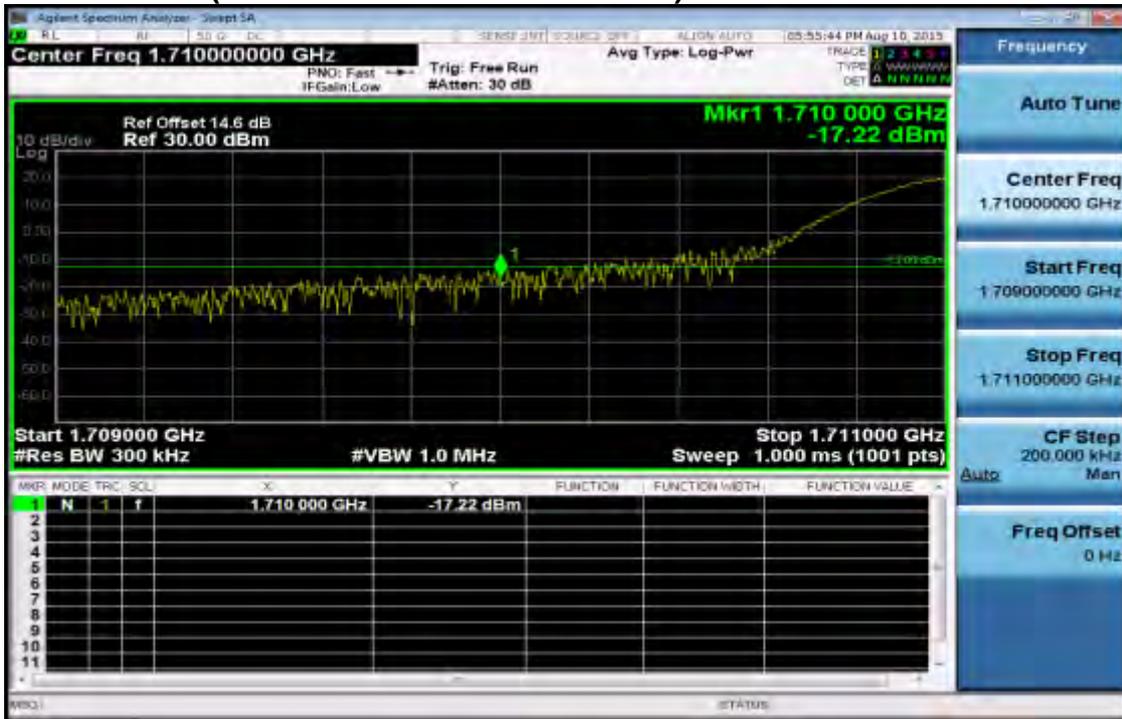
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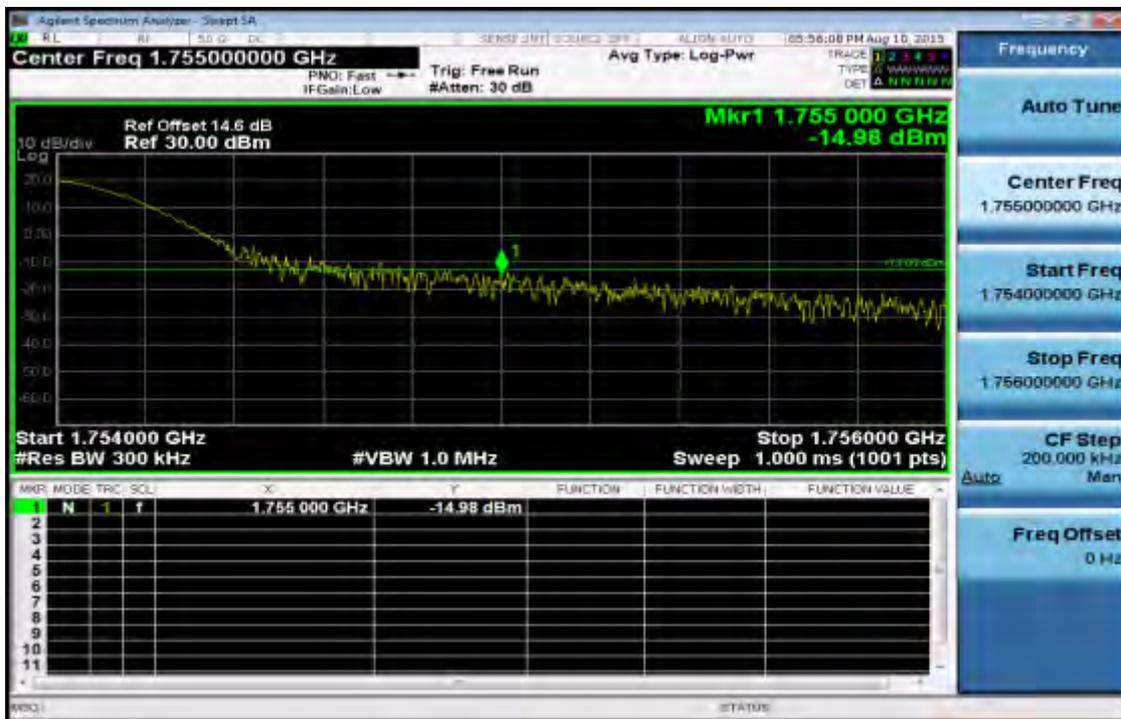
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**Band edge emission at antenna terminals –20MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –20MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 99) Channel Highest**



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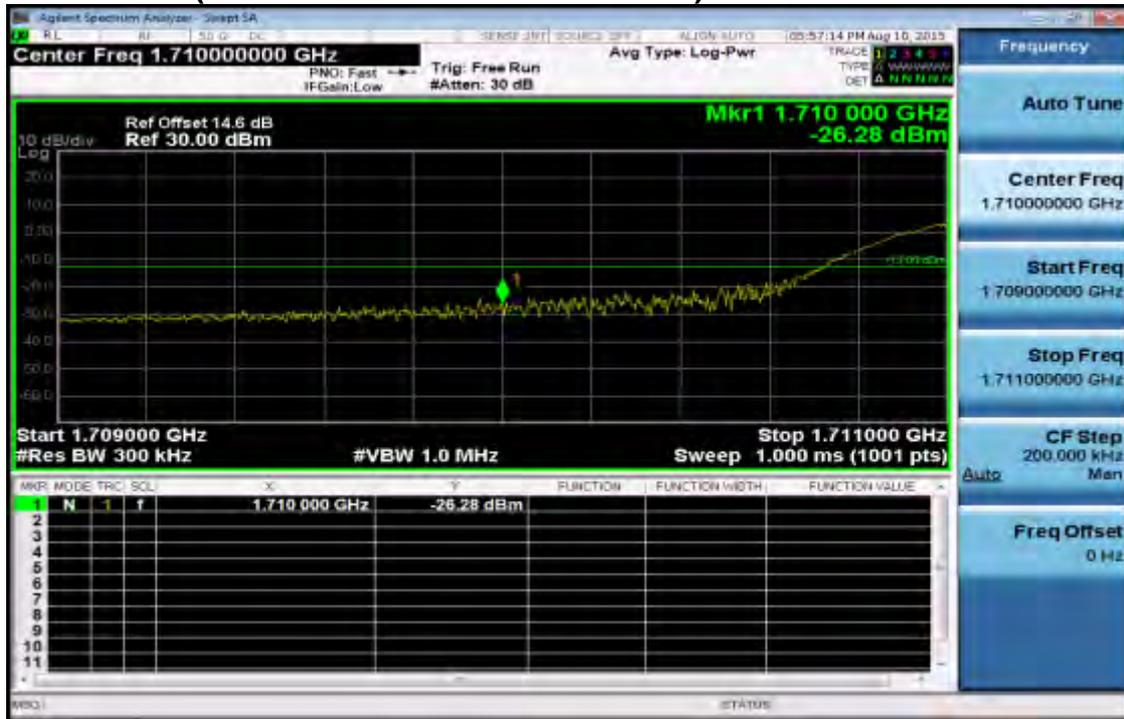
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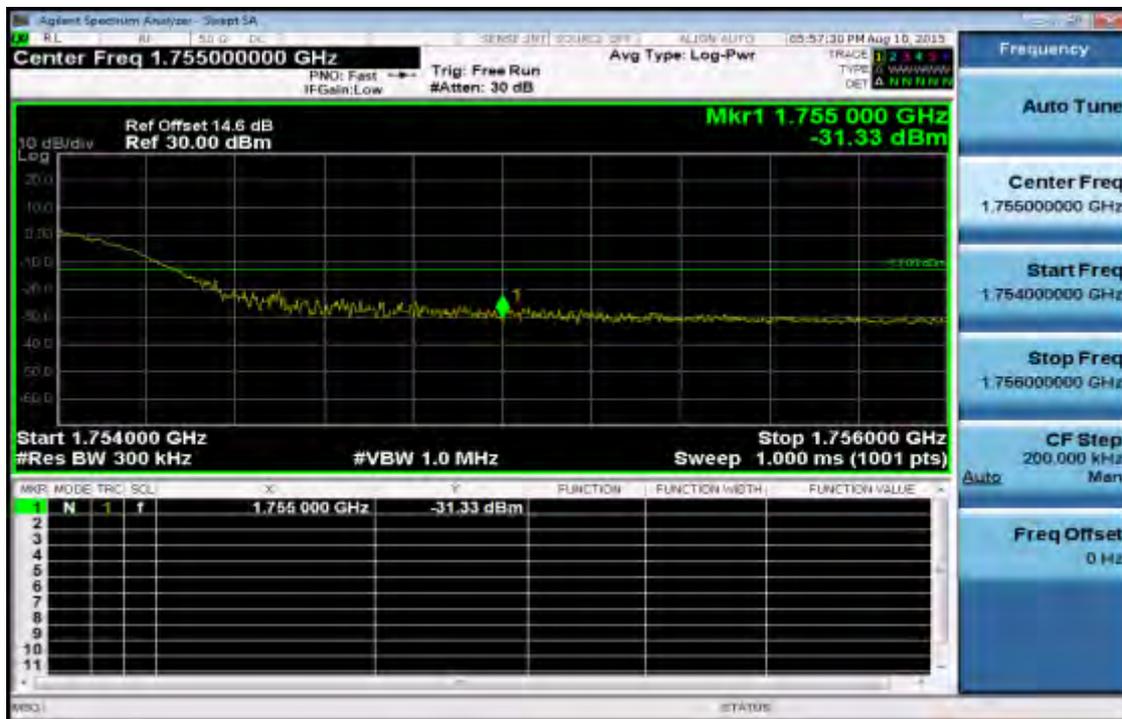
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**Band edge emission at antenna terminals –20MHz BW LTE-Band 4  
 (QPSK RB Number: 100 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –20MHz BW LTE-Band 4  
 (QPSK RB Number: 100 Offset: 0) Channel Highest**

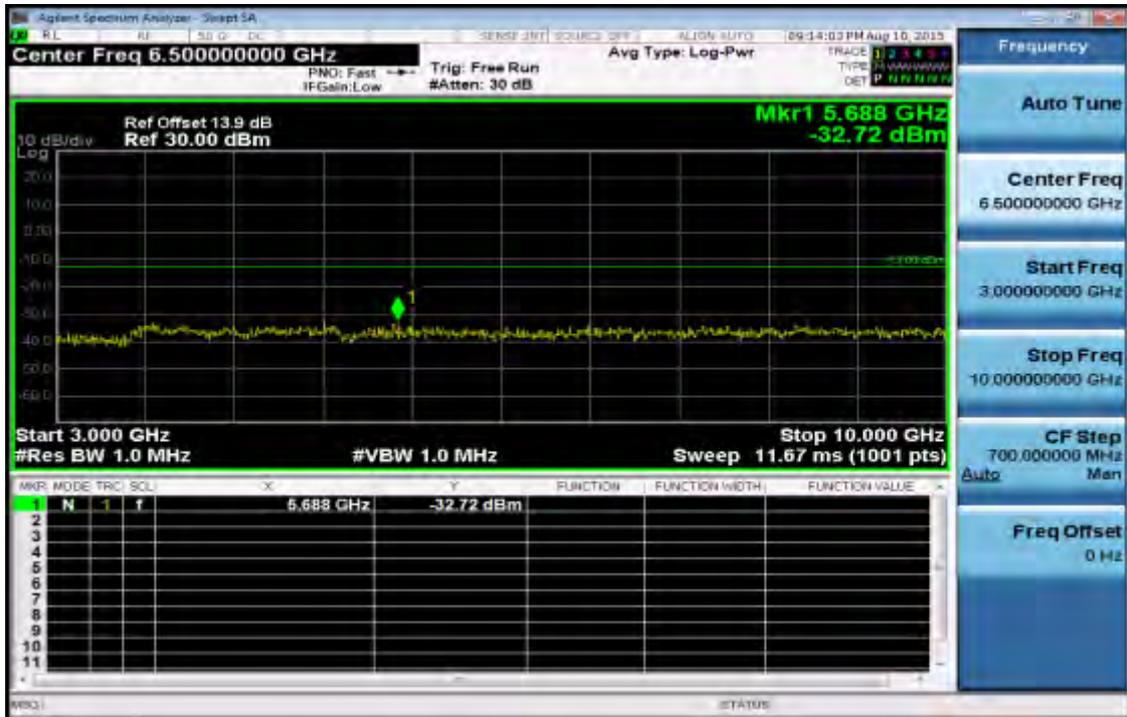
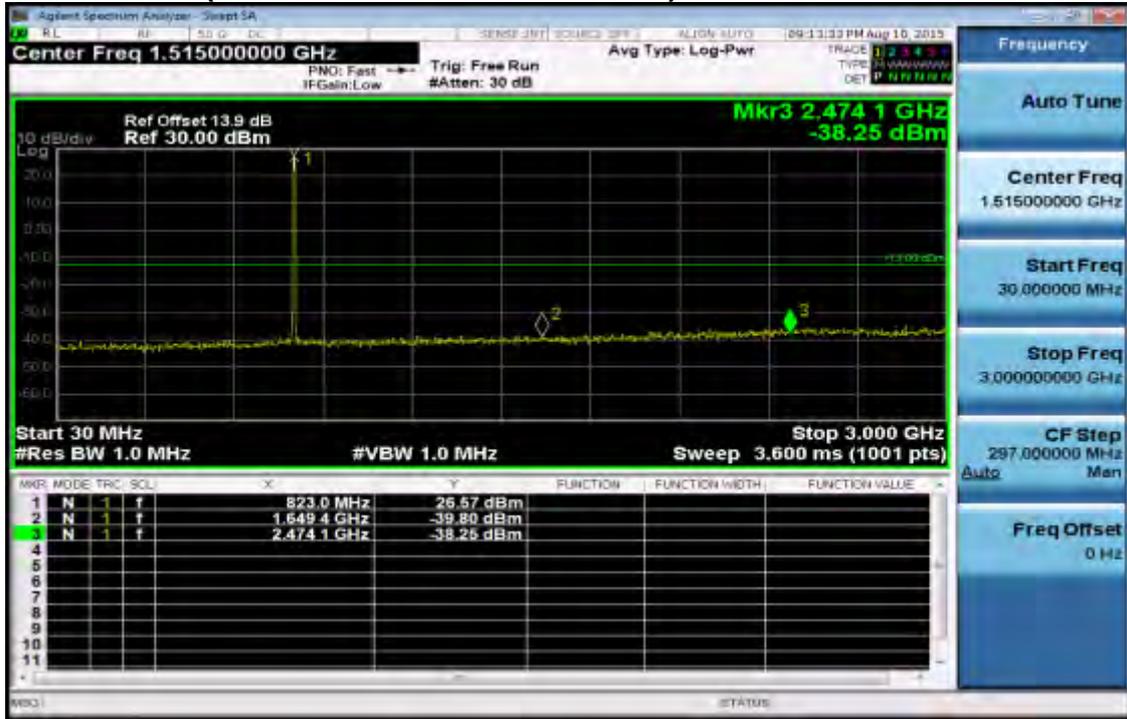


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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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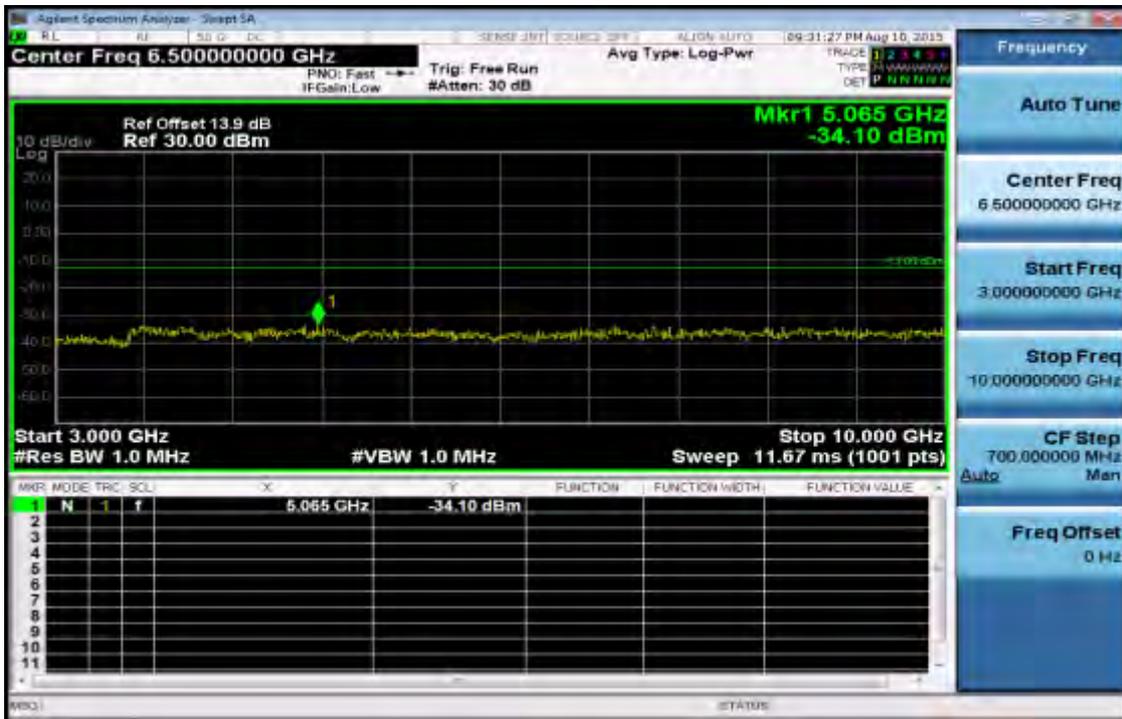
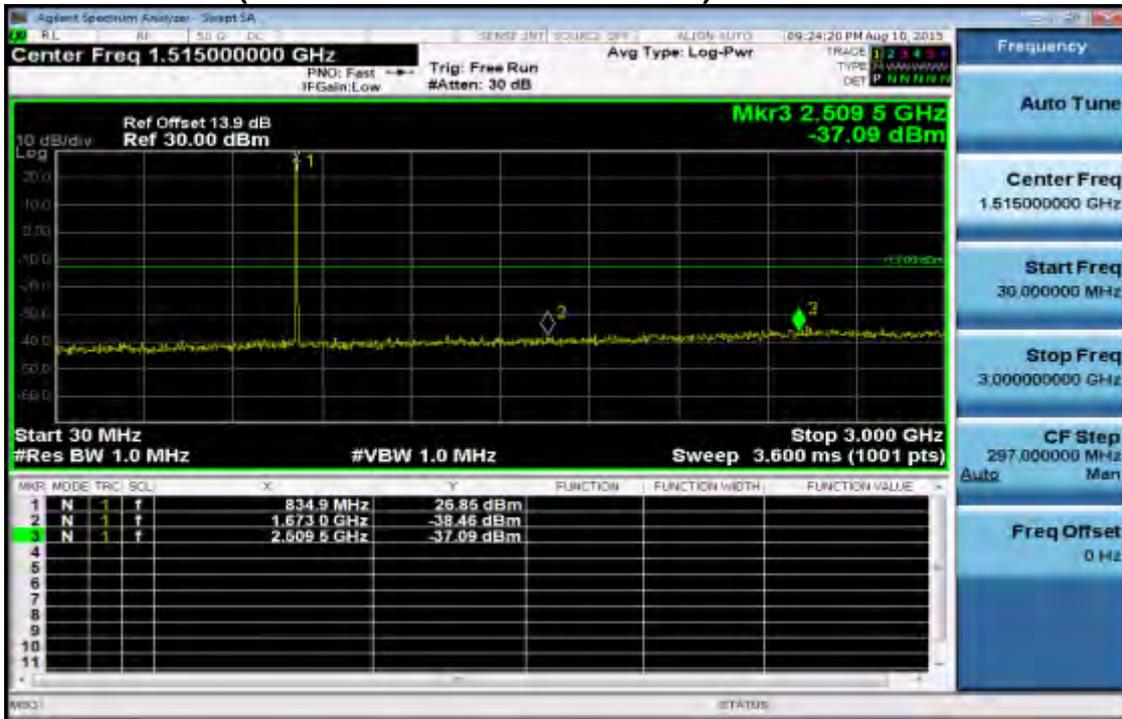
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**Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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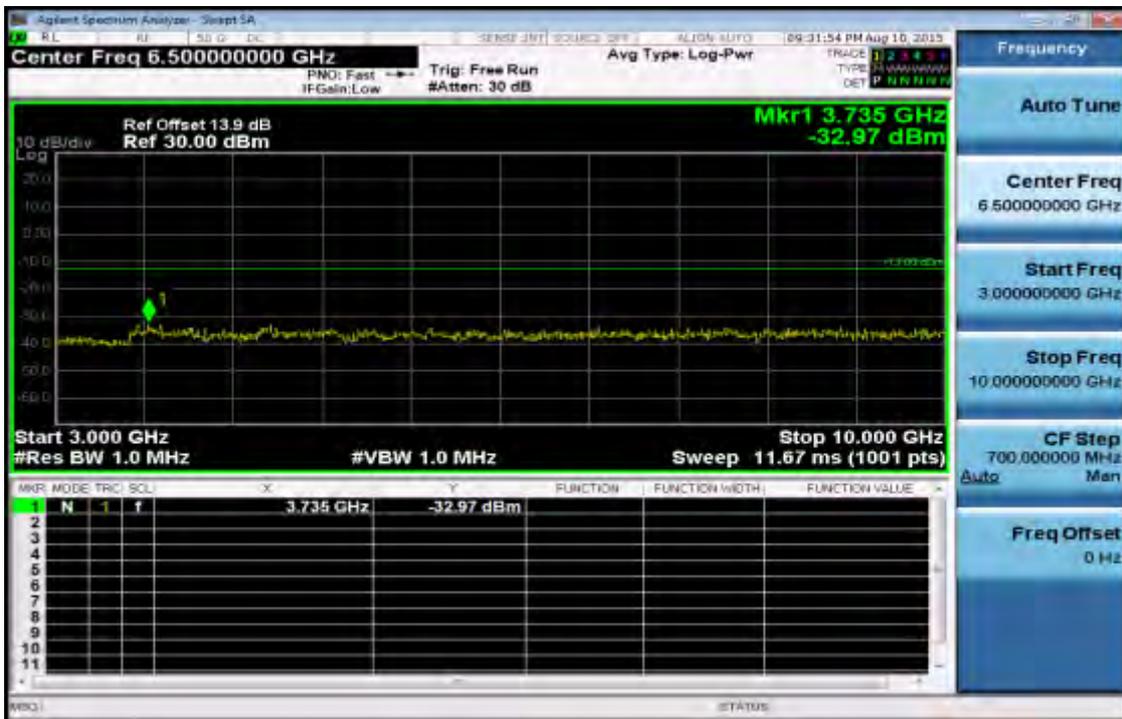
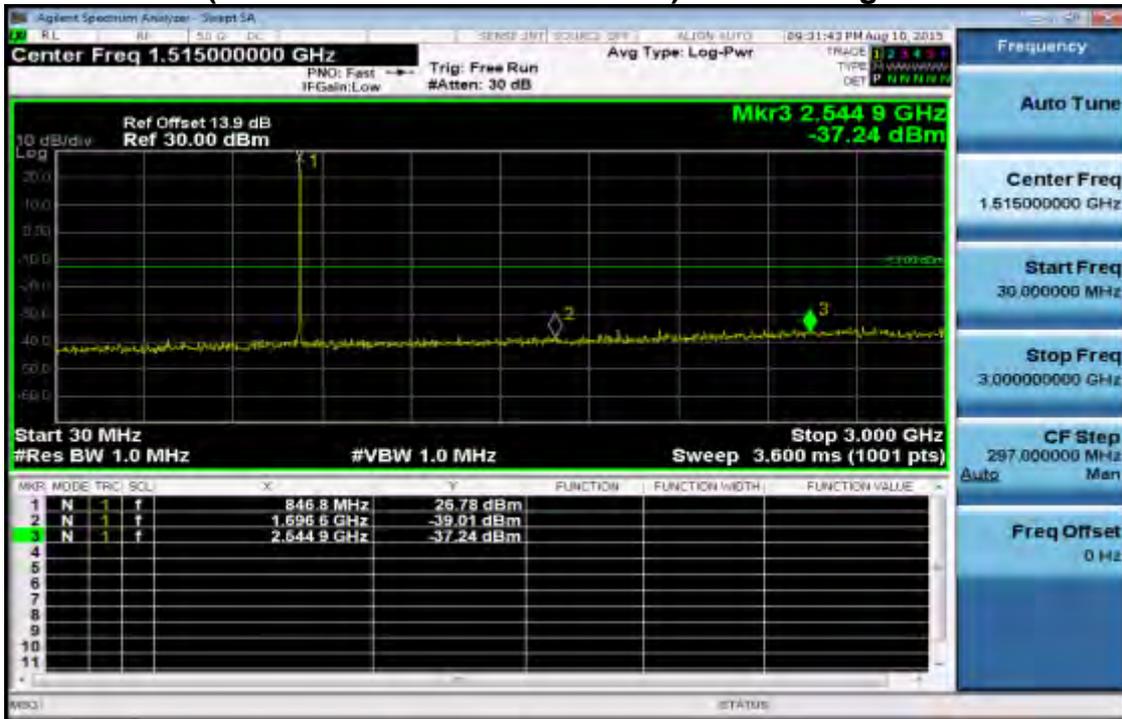
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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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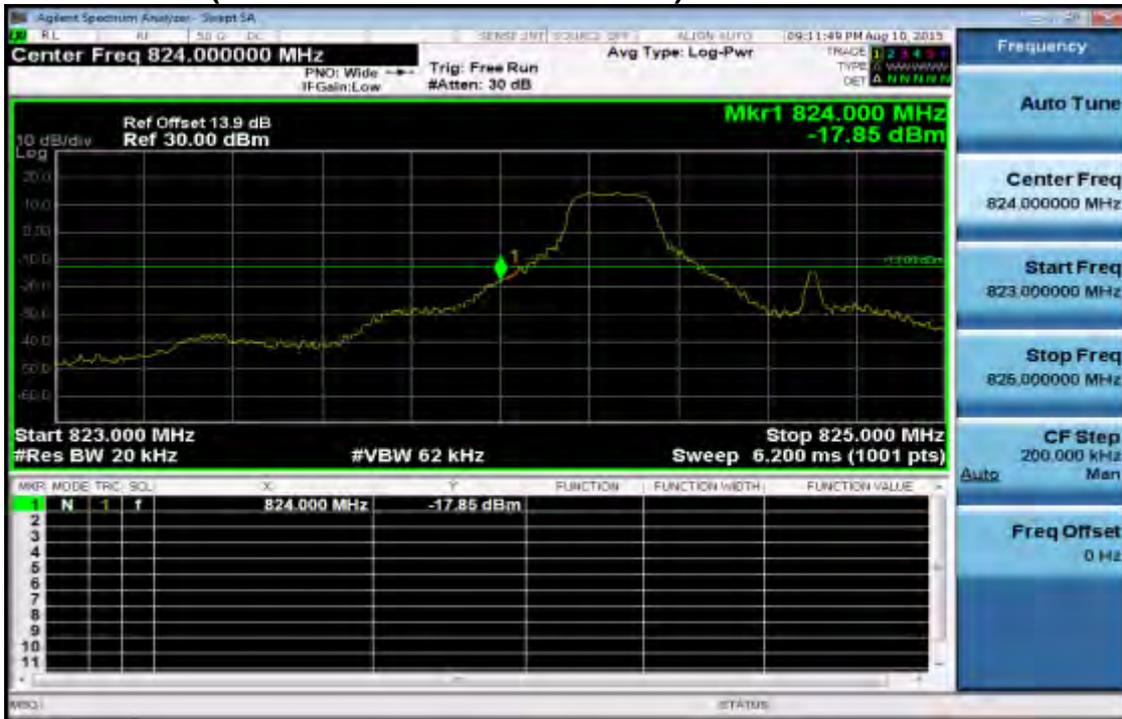
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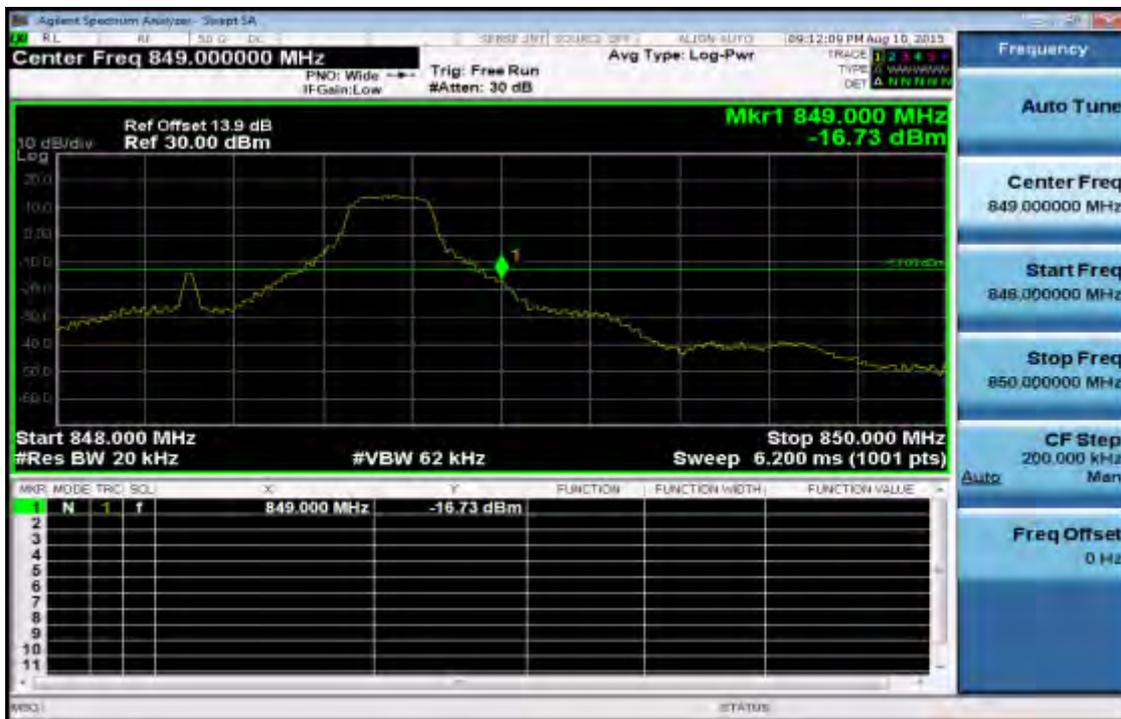
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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 5) Channel Highest**

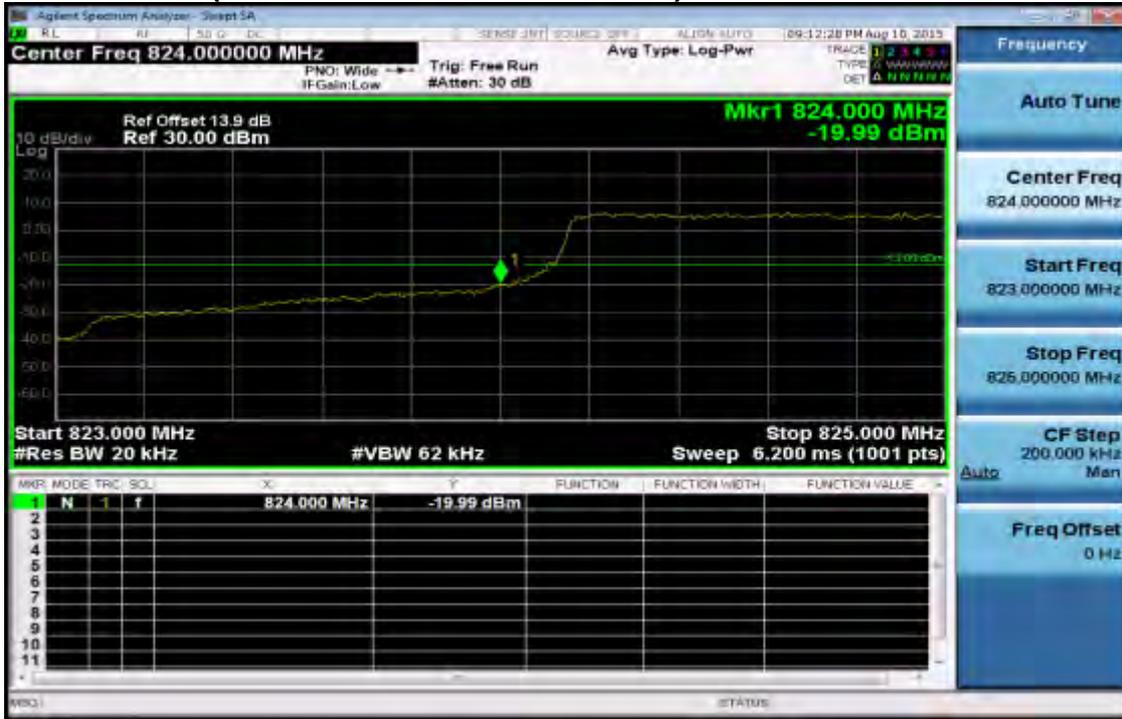


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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5  
 (QPSK RB Number: 6 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5  
 (QPSK RB Number: 6 Offset: 0) Channel Highest**

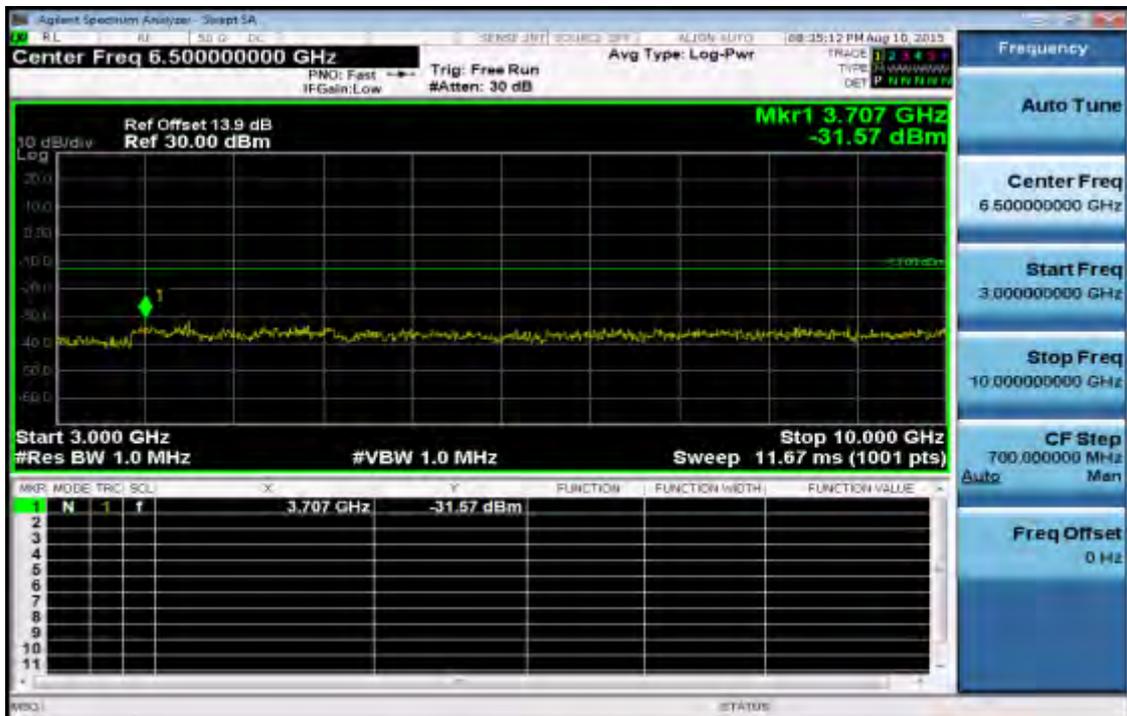
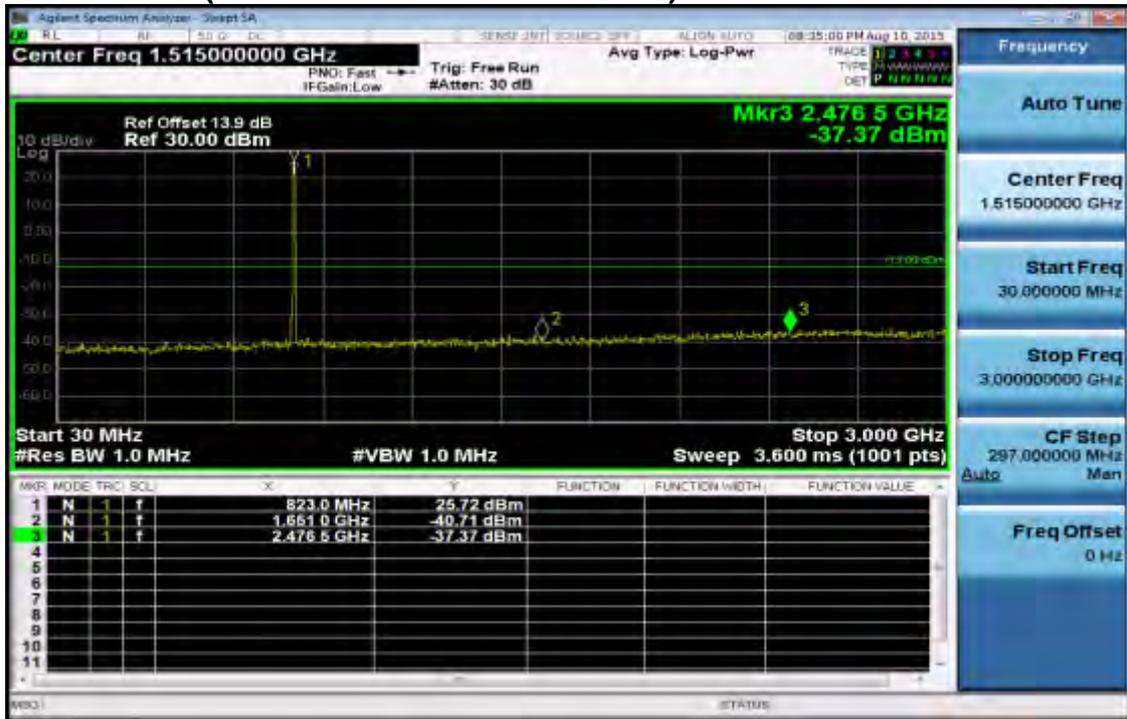


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**Out of Band emission at antenna terminals–3MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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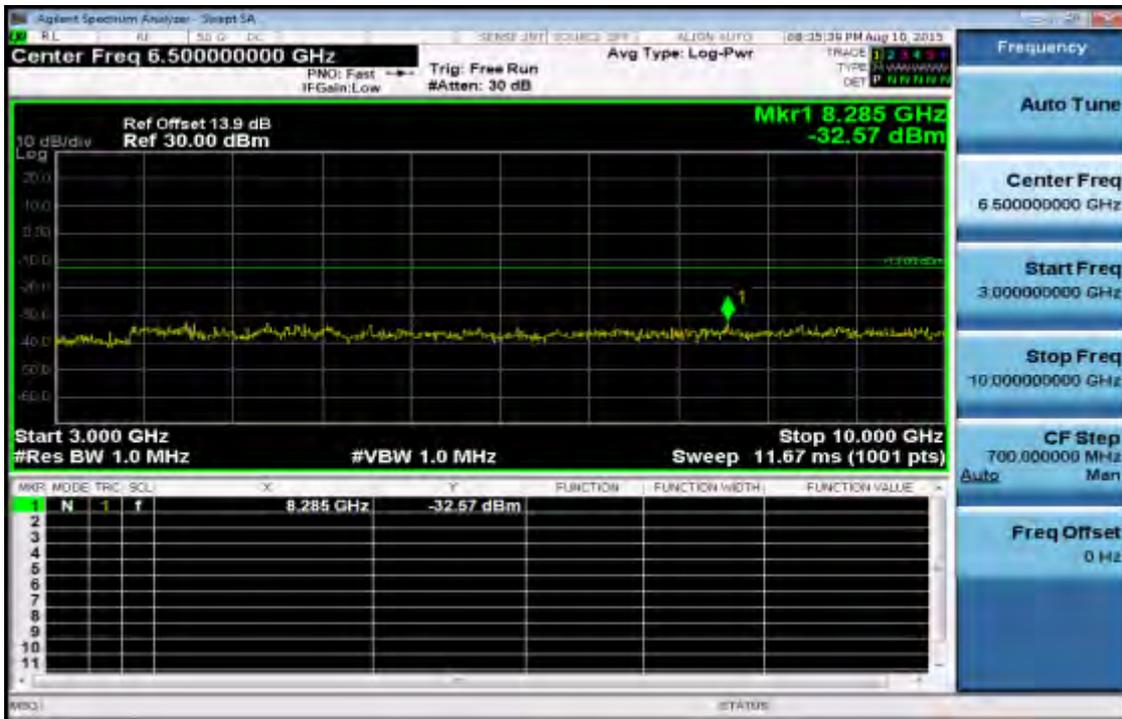
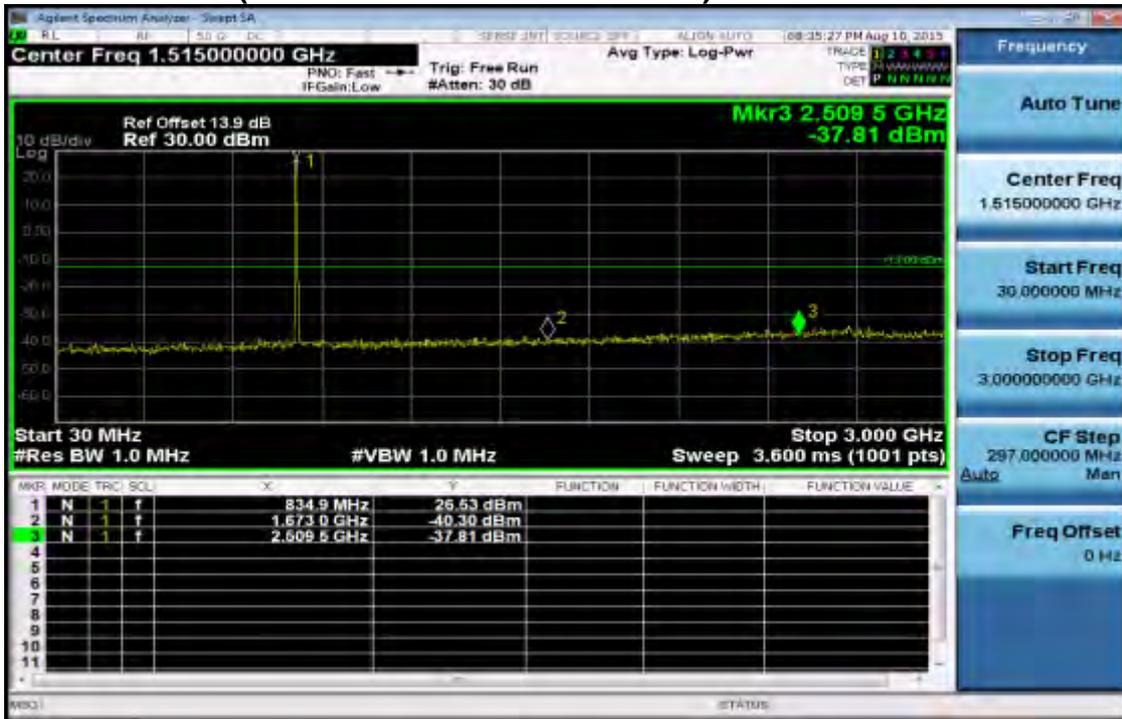
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**Out of Band emission at antenna terminals –3MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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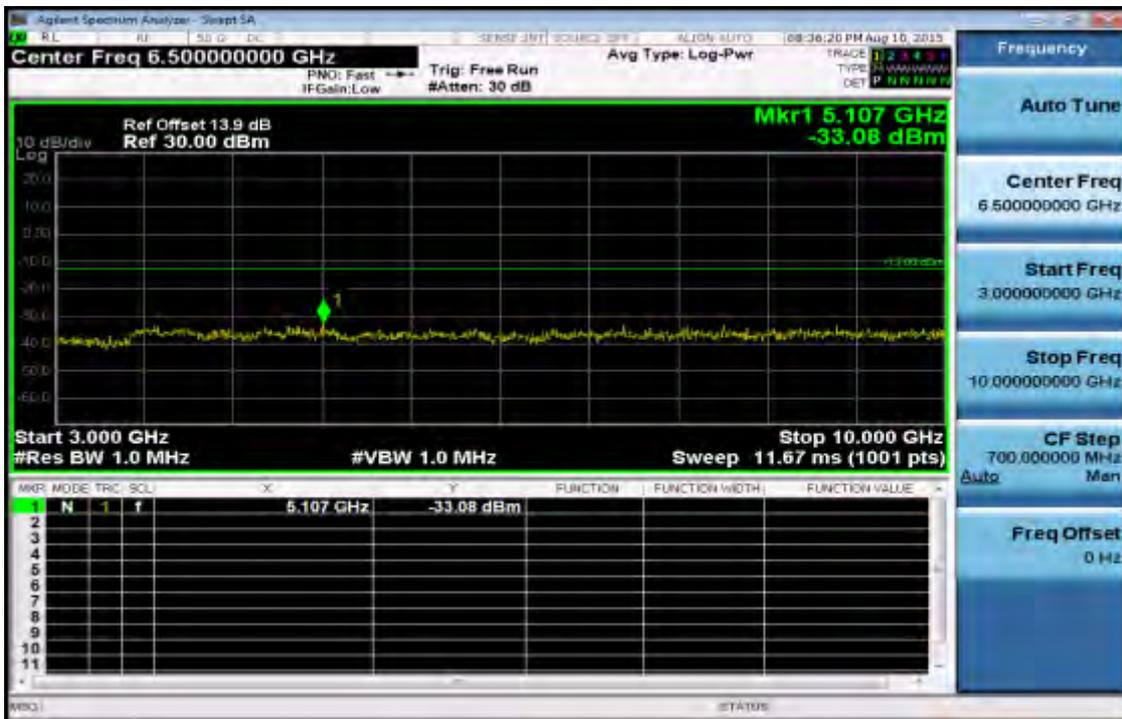
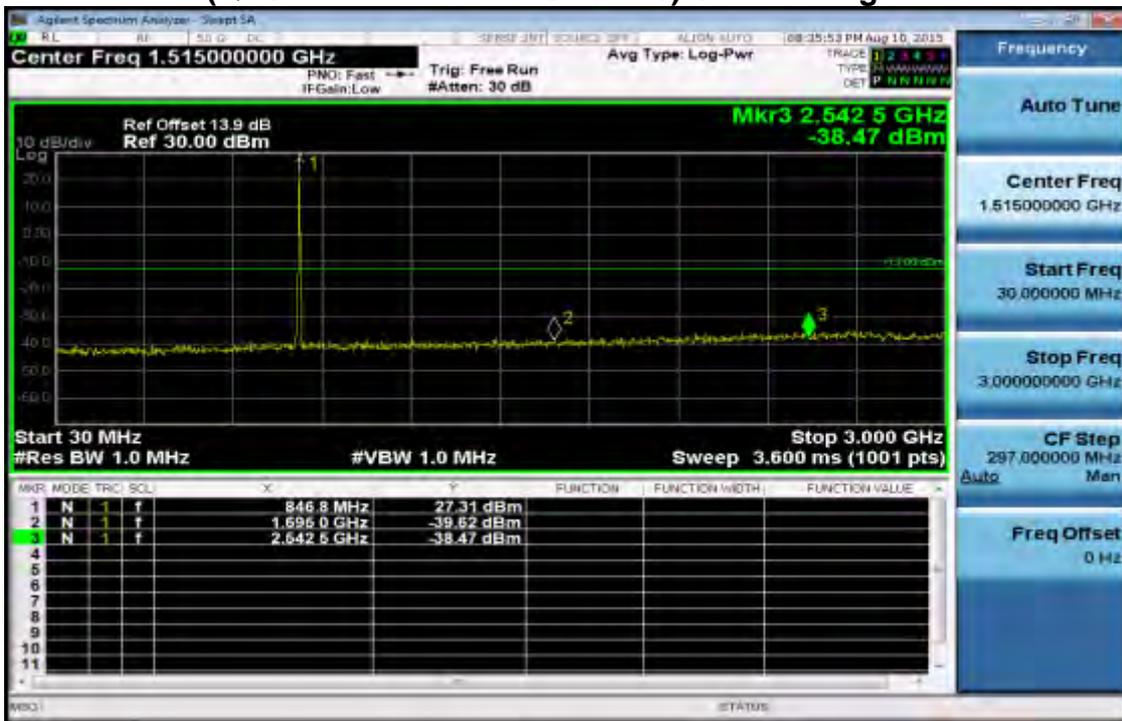
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**Out of Band emission at antenna terminals–3MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –3MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –3MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 14) Channel Highest**



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**Band edge emission at antenna terminals –3MHz BW LTE-Band 5  
 (QPSK RB Number: 15 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –3MHz BW LTE-Band 5  
 (QPSK RB Number: 15 Offset: 0) Channel Highest**

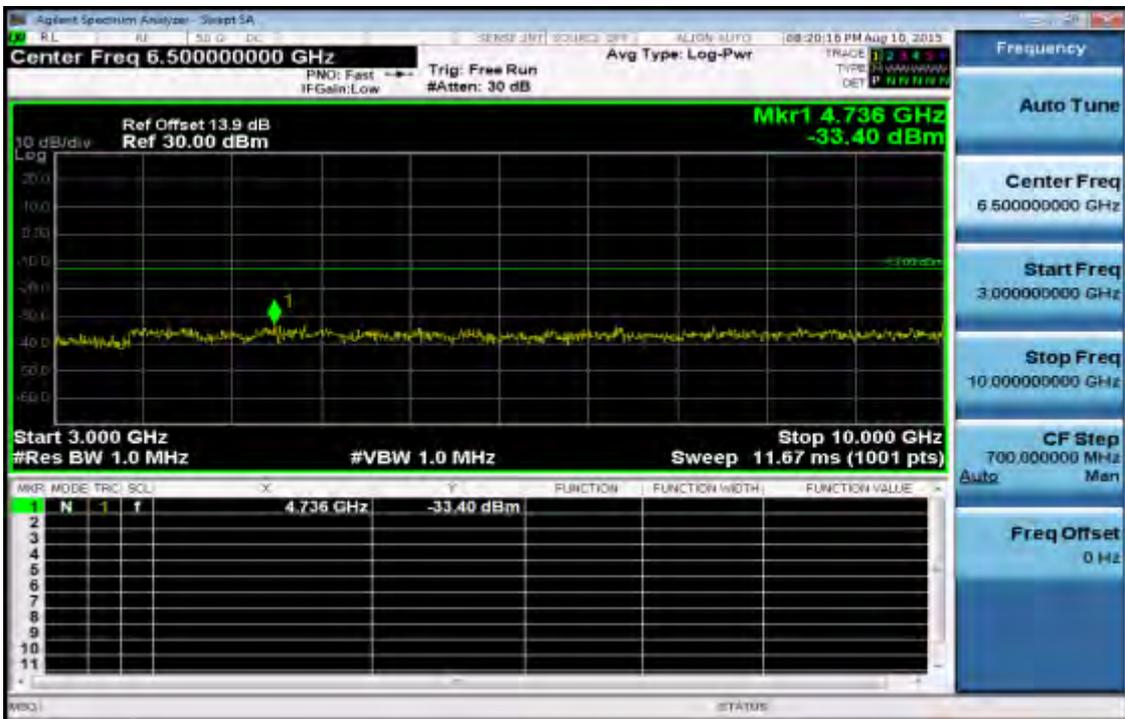
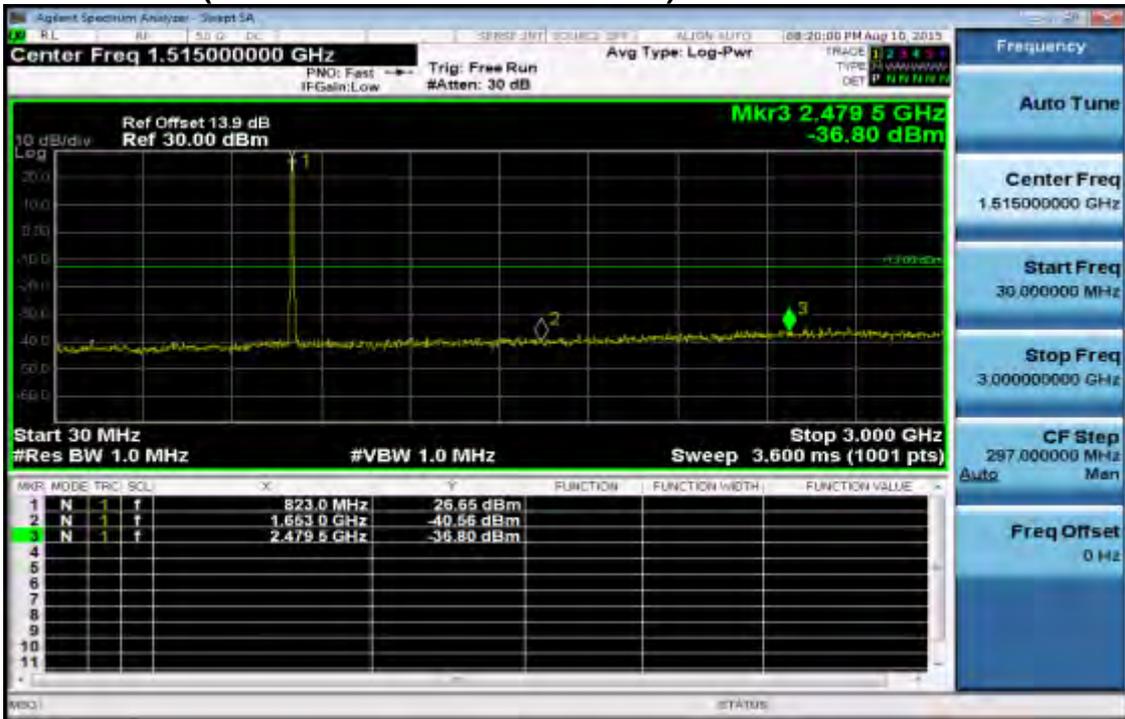


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**Out of Band emission at antenna terminals–5MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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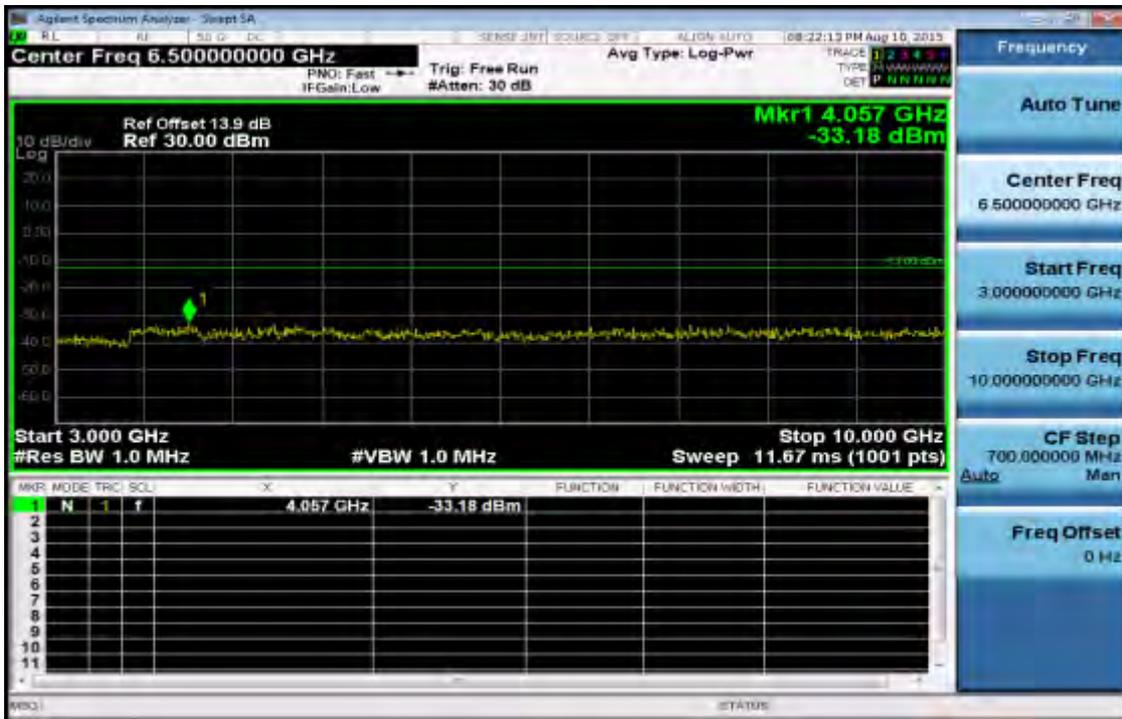
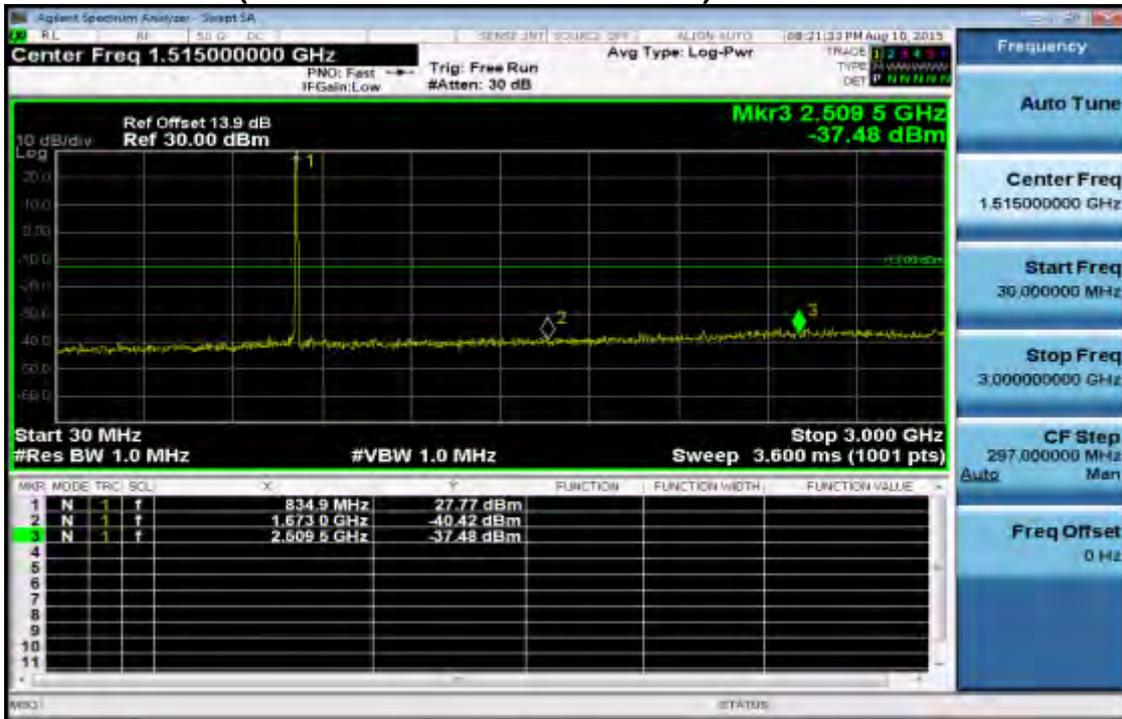
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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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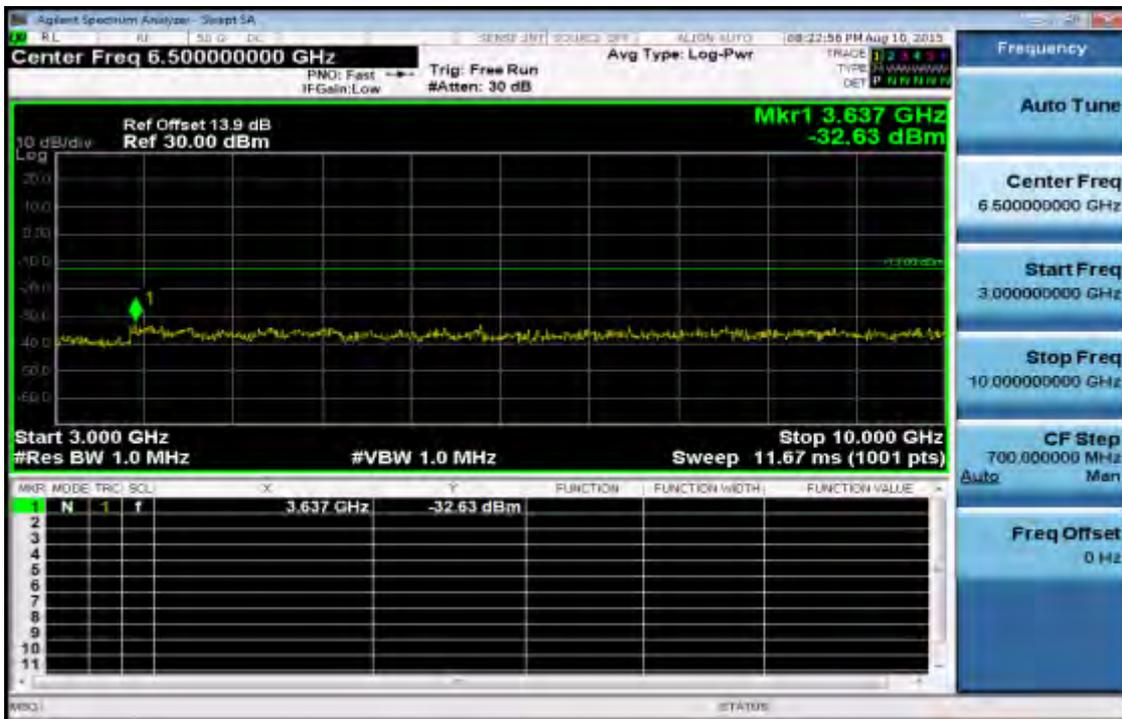
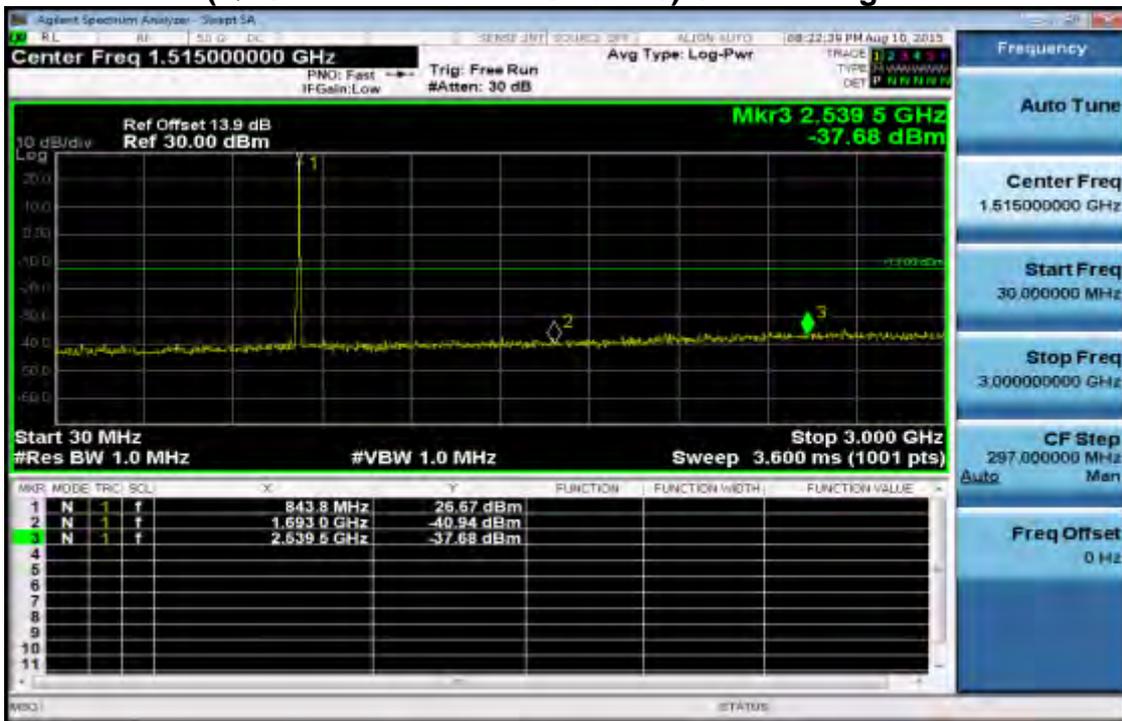
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**Out of Band emission at antenna terminals–5MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 24) Channel Highest**

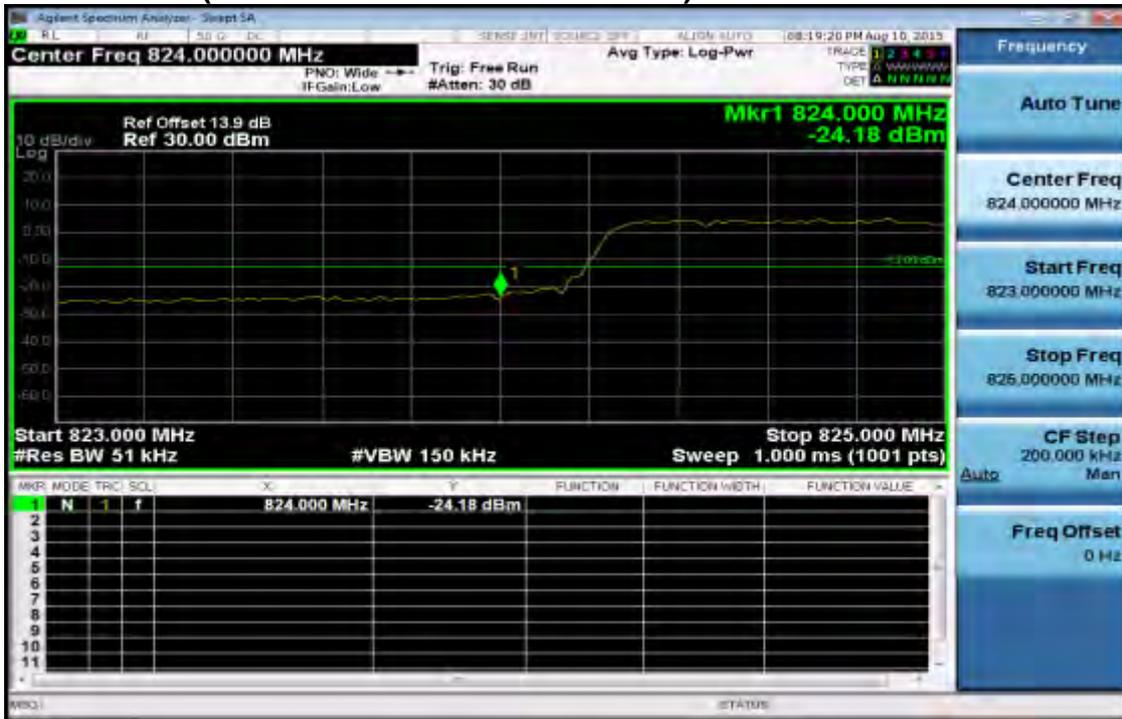


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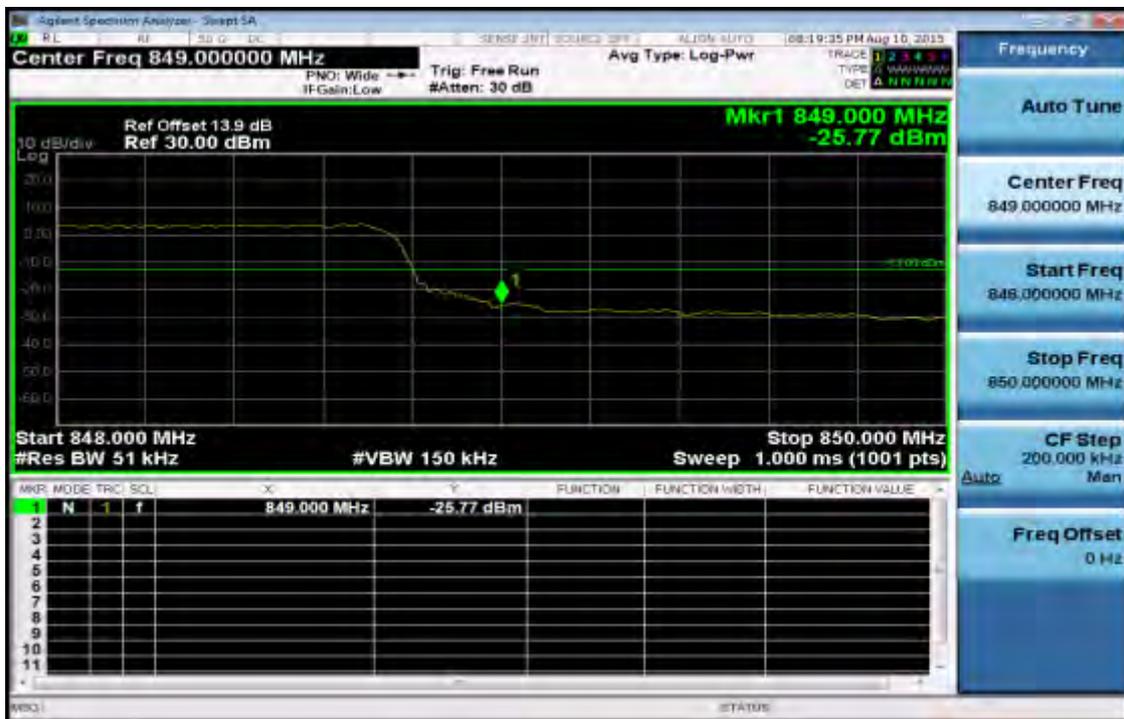
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 5  
 (QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 5  
 (QPSK RB Number: 25 Offset: 0) Channel Highest**

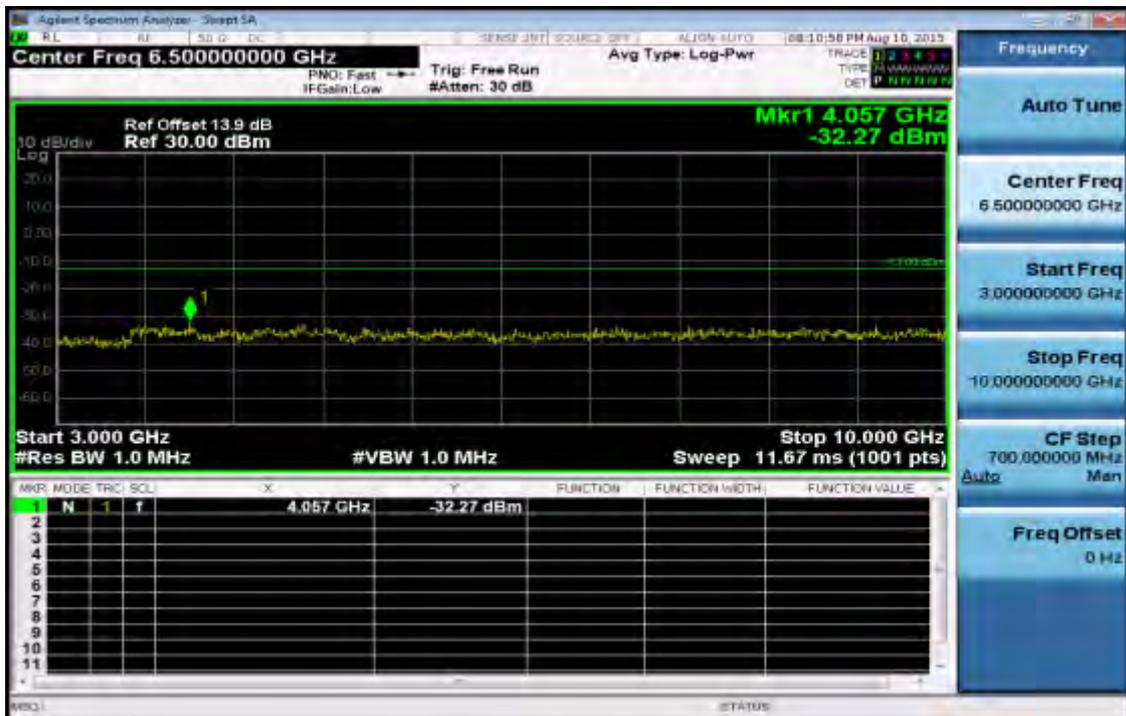
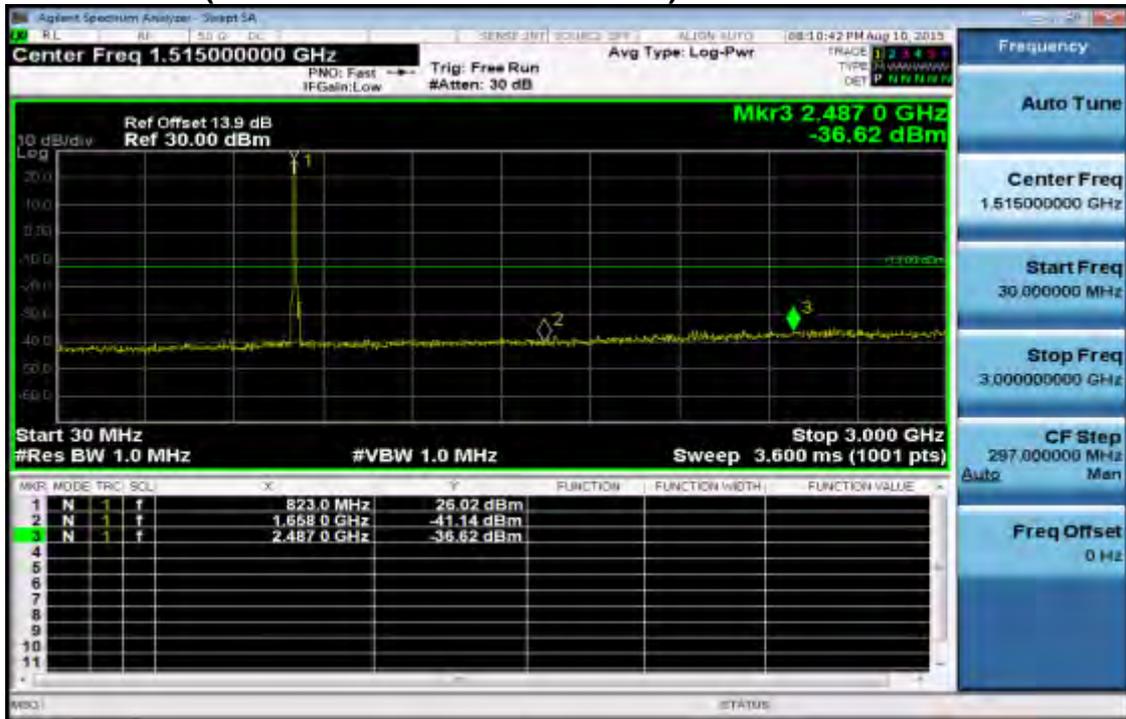


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Out of Band emission at antenna terminals–10MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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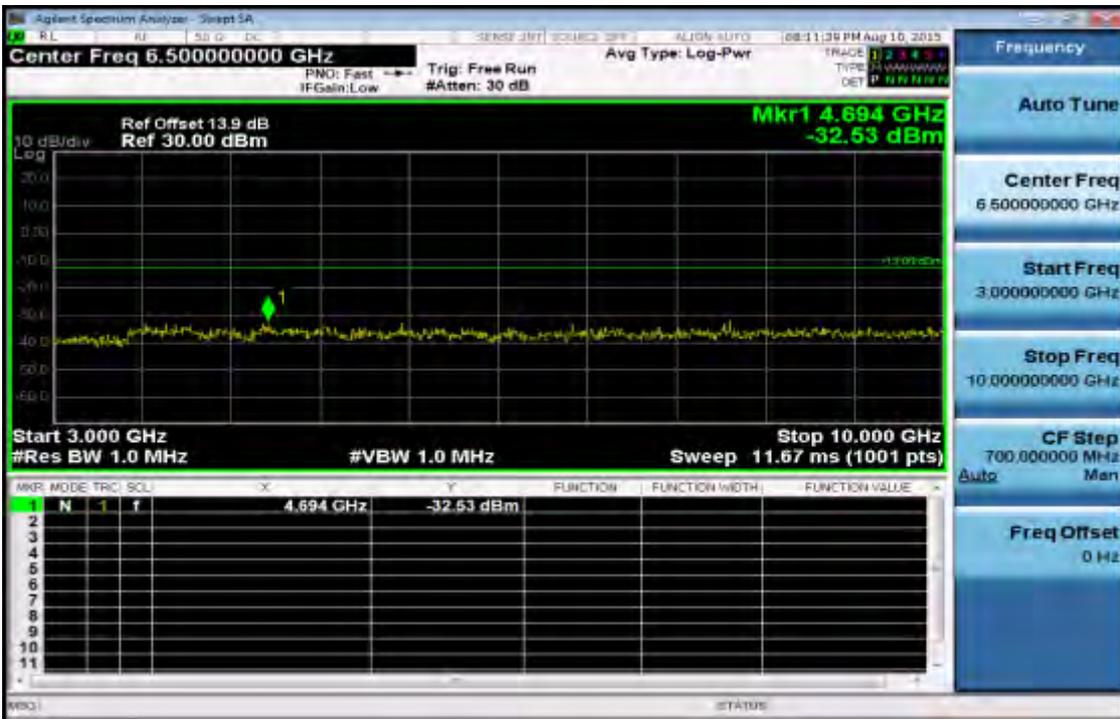
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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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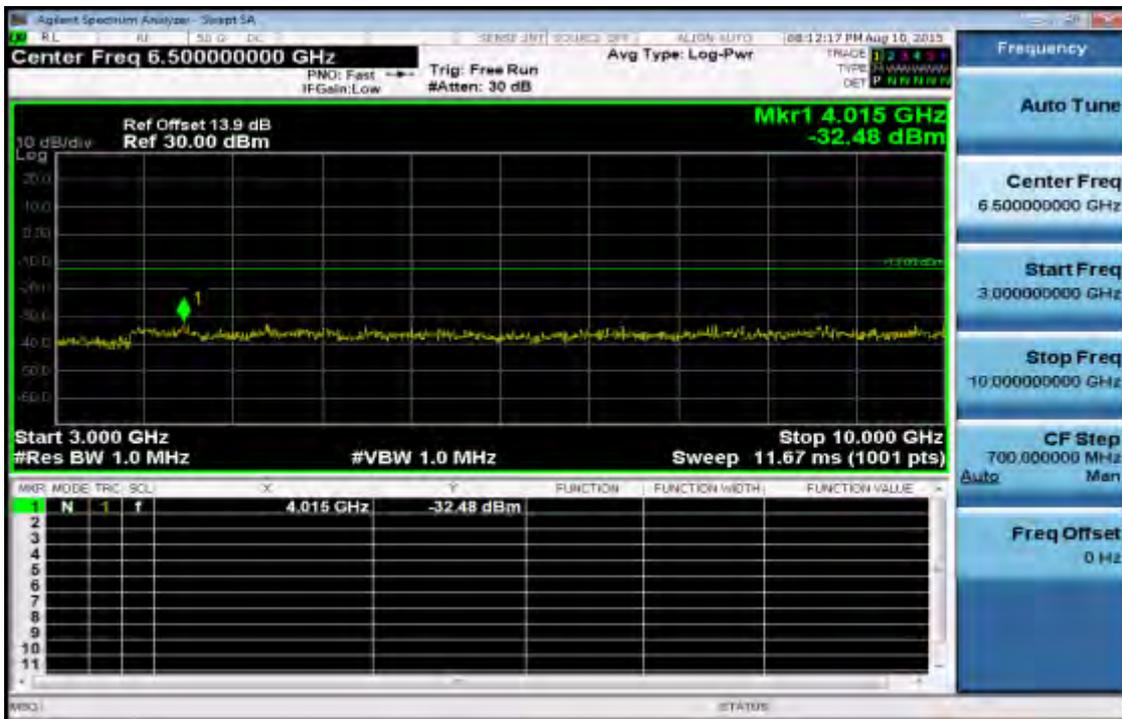
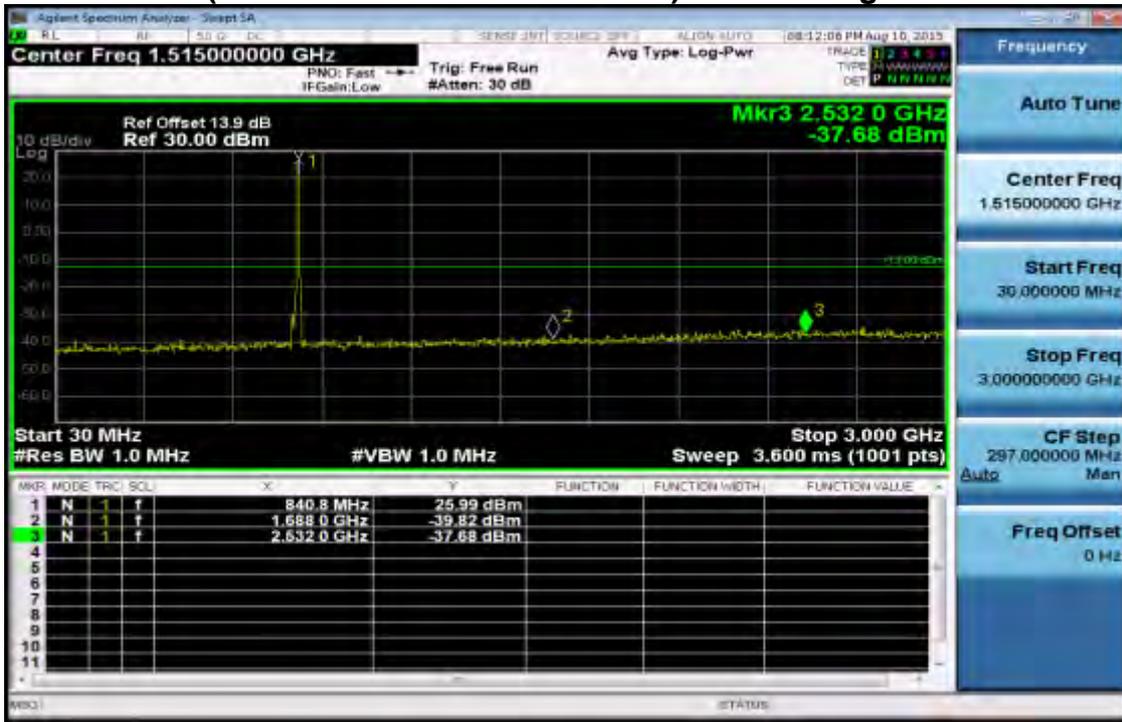
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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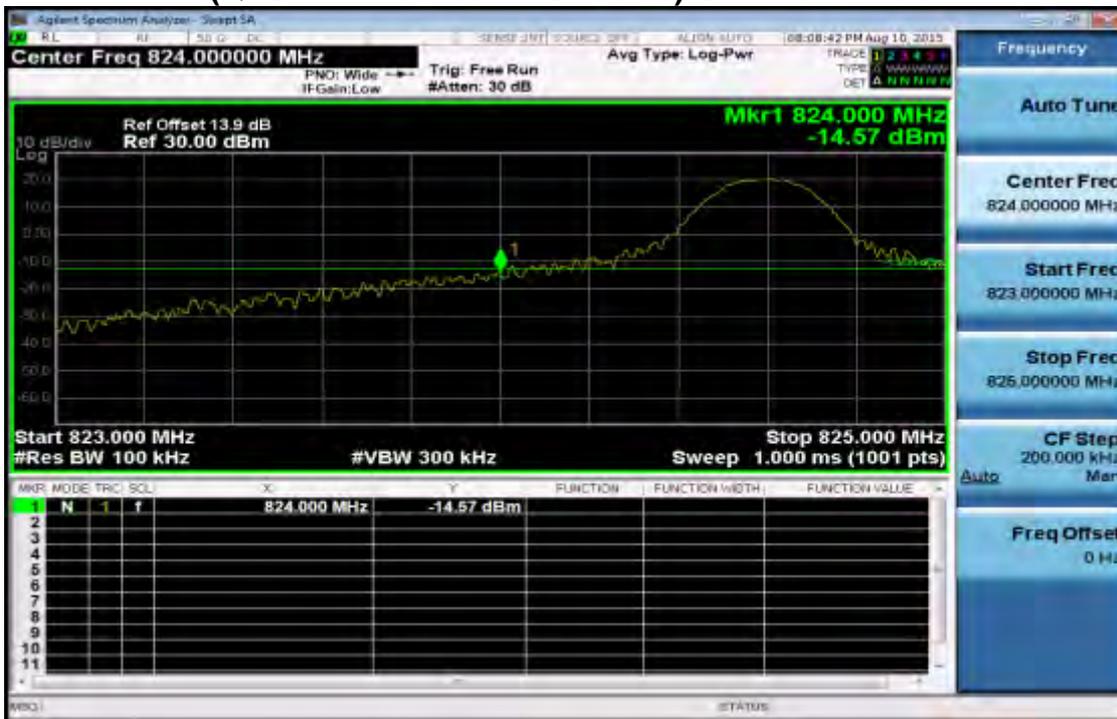
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**Band edge emission at antenna terminals –10MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –10MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 5  
 (QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –10MHz BW LTE-Band 5  
 (QPSK RB Number: 50 Offset: 0) Channel Highest**

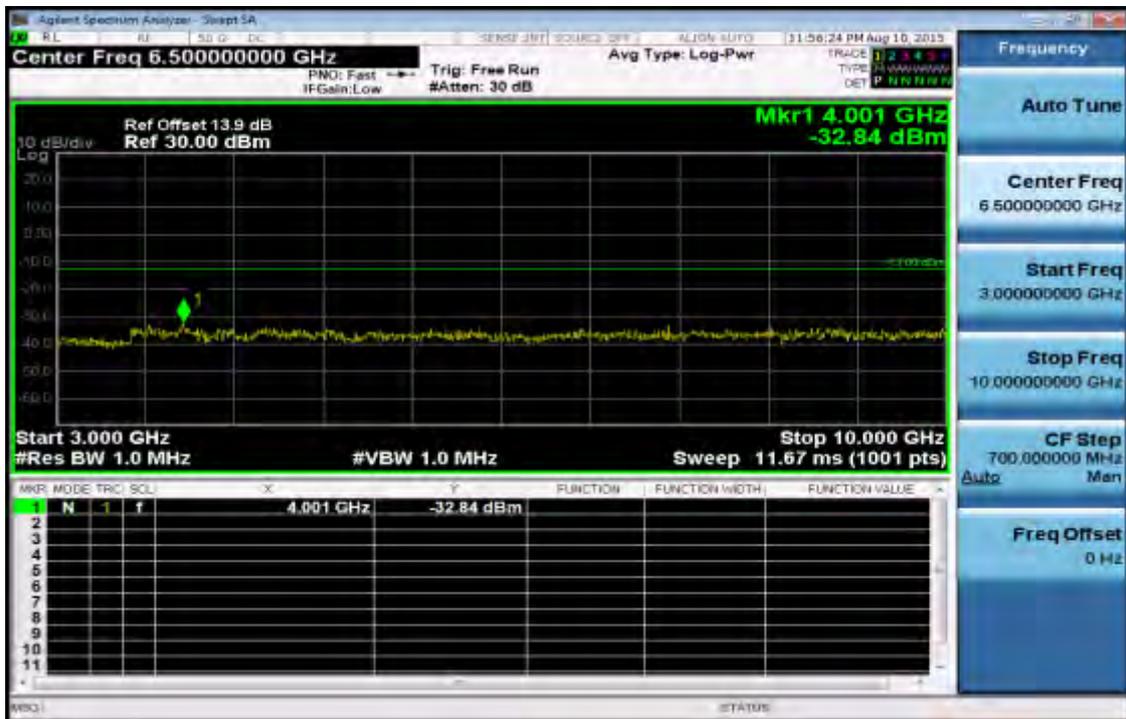
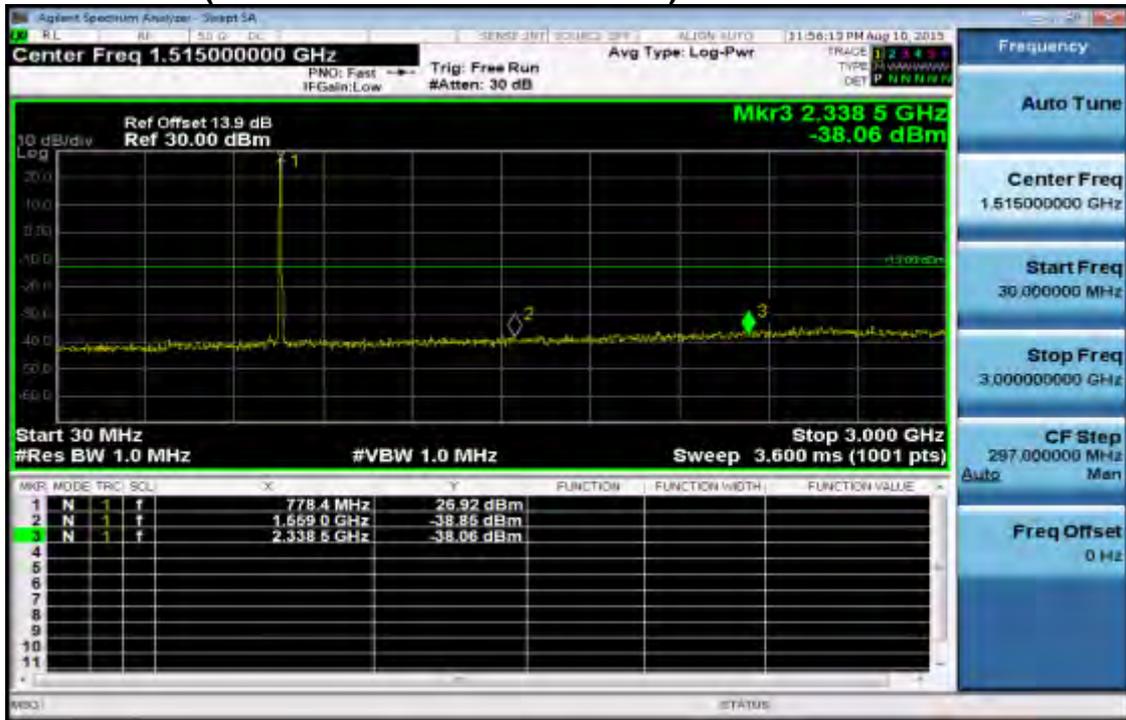


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Out of Band emission at antenna terminals—5MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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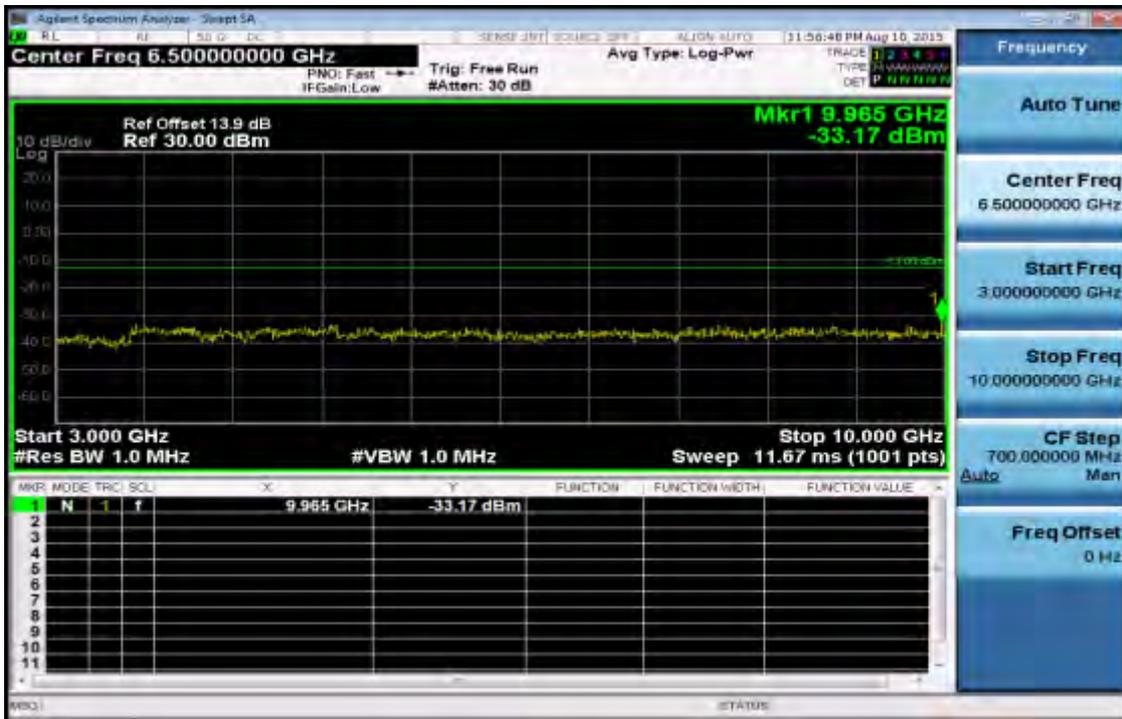
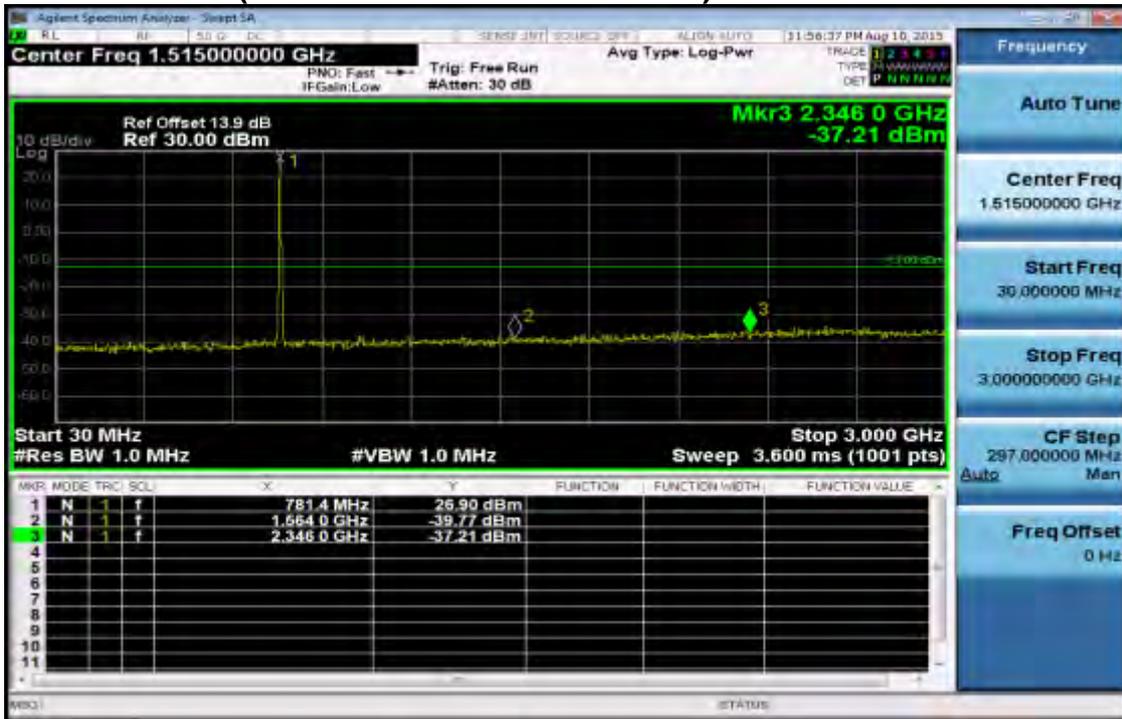
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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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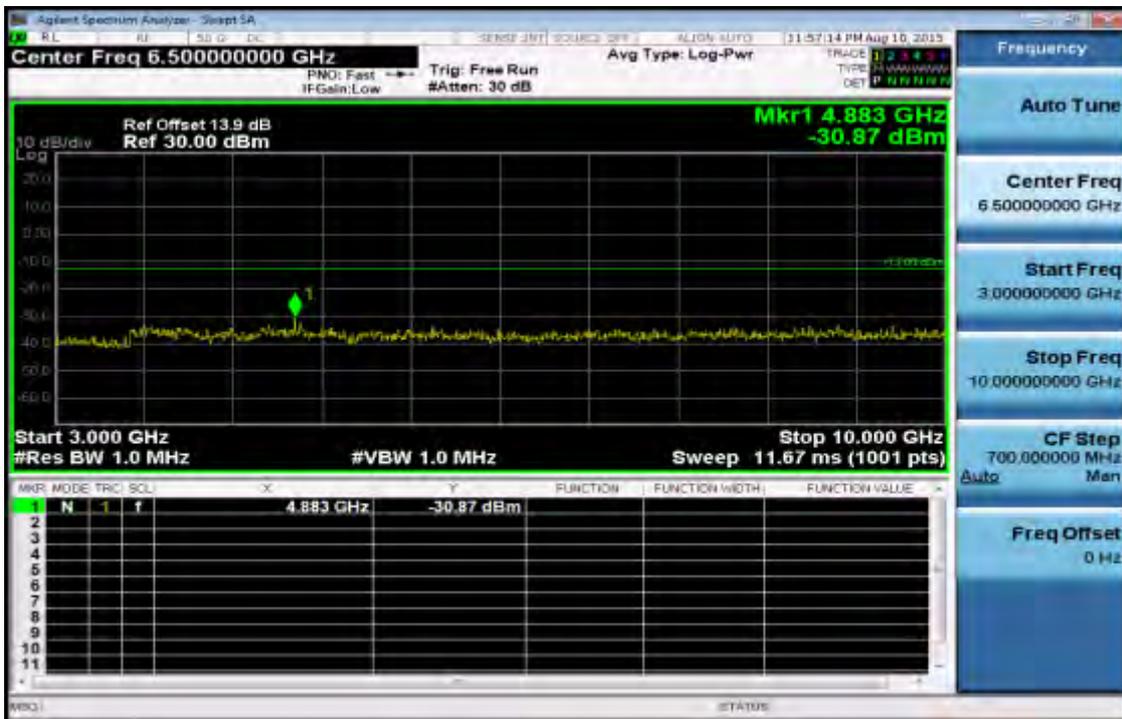
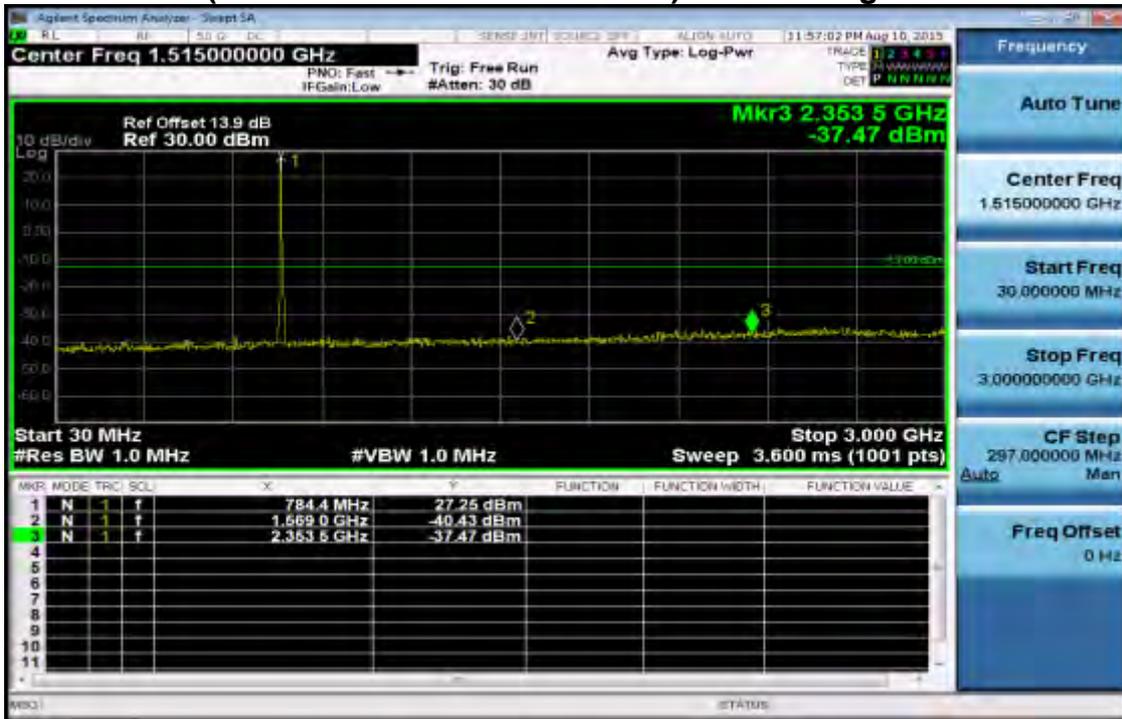
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**Out of Band emission at antenna terminals–5MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 24) Channel Highest**



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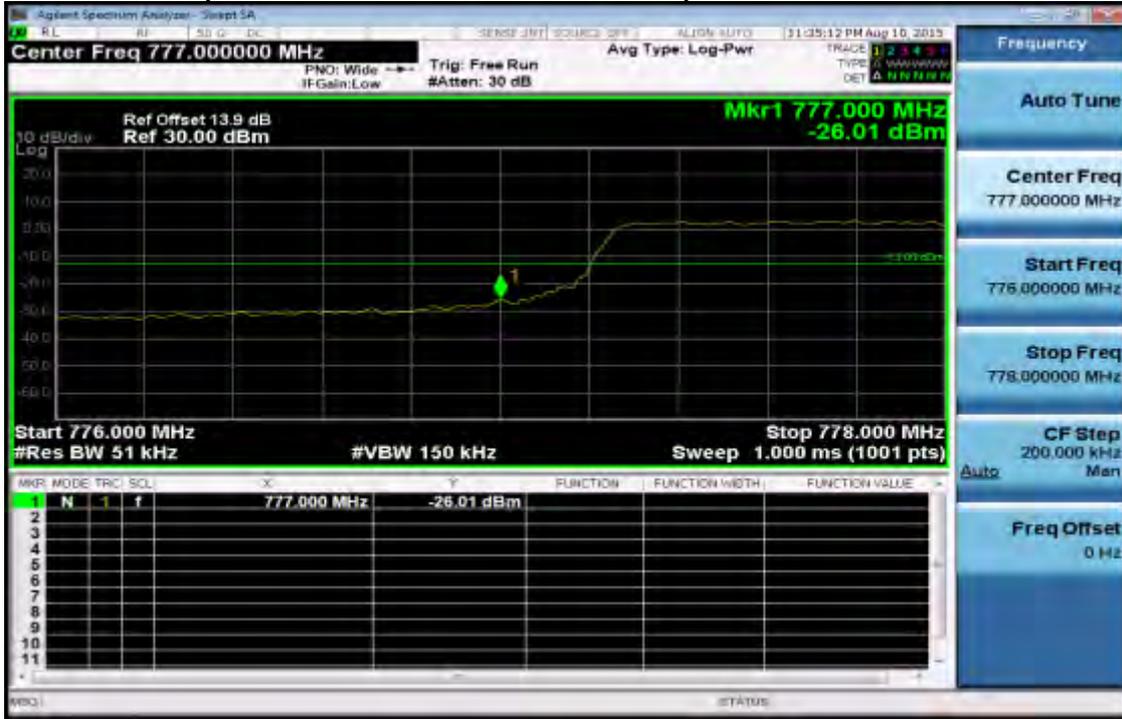
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 13  
 (QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 13  
 (QPSK RB Number: 25 Offset: 0) Channel Highest**



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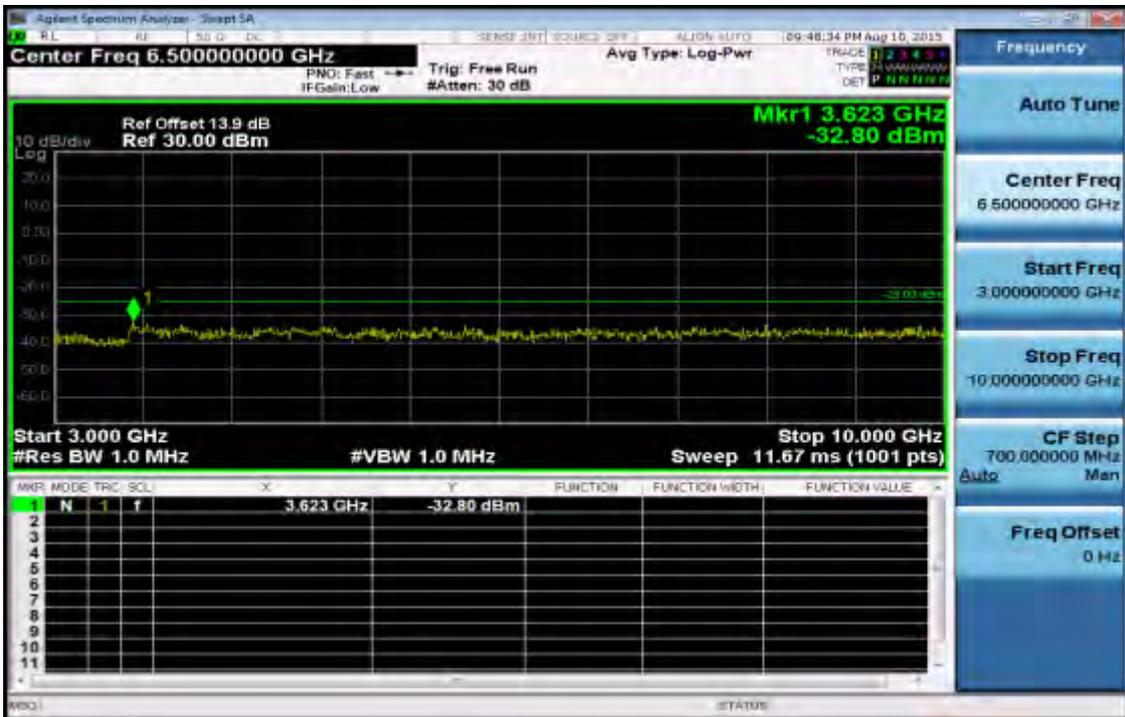
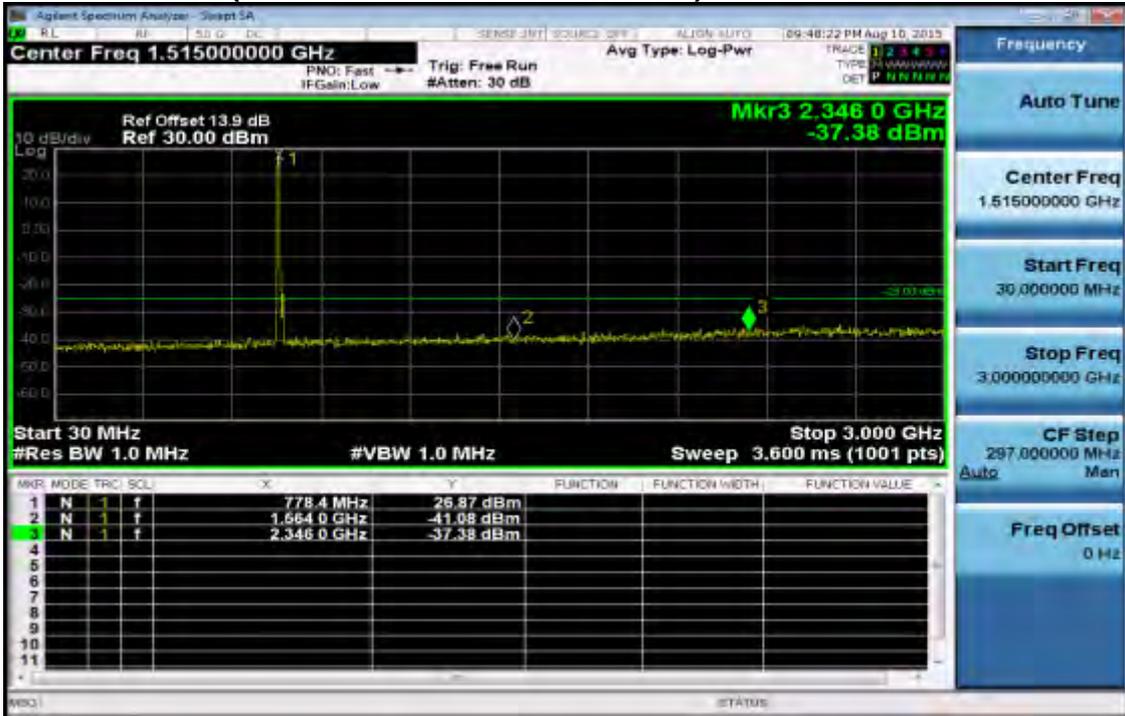
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –10MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 13  
 (QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –10MHz BW LTE-Band 13  
 (QPSK RB Number: 50 Offset: 0) Channel Highest**



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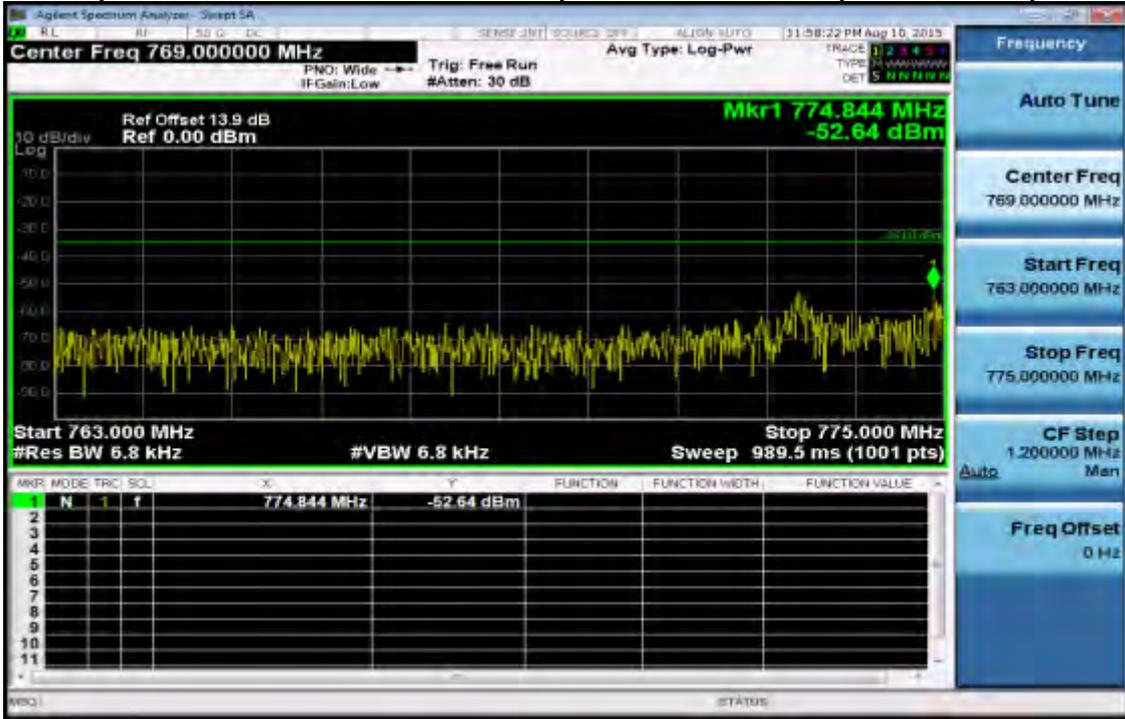
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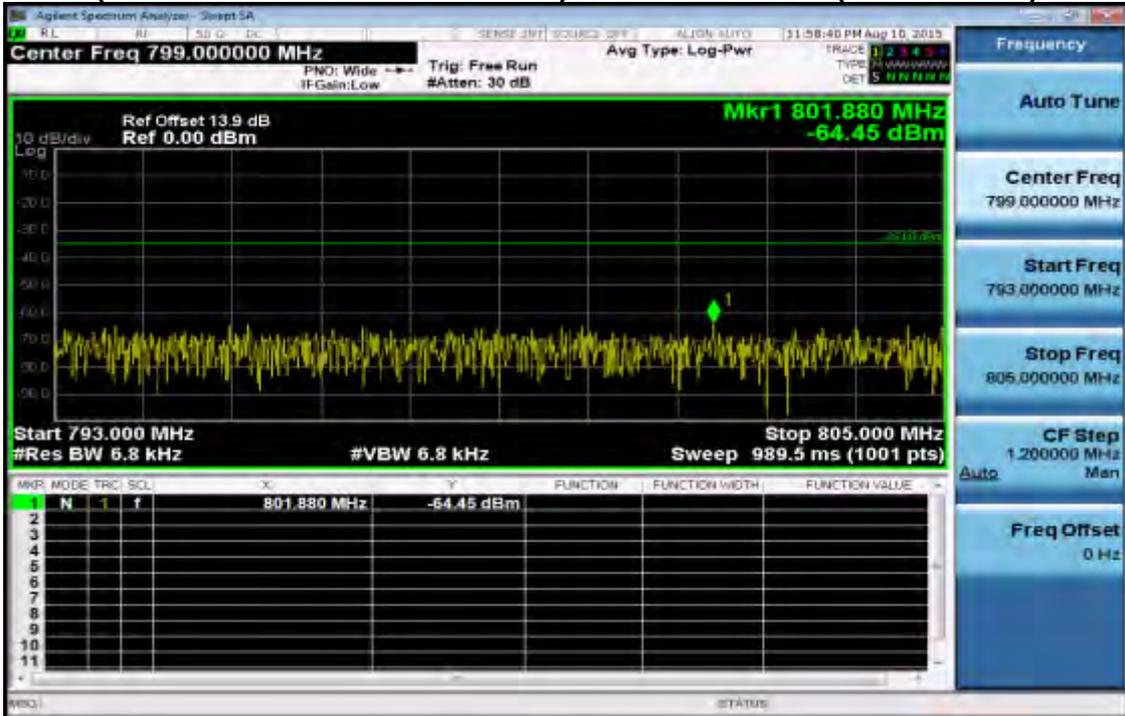
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**Out of Band emission at antenna terminals–5MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest (763-775MHz)**



**Out of Band emission at antenna terminals–5MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest (793-805MHz)**



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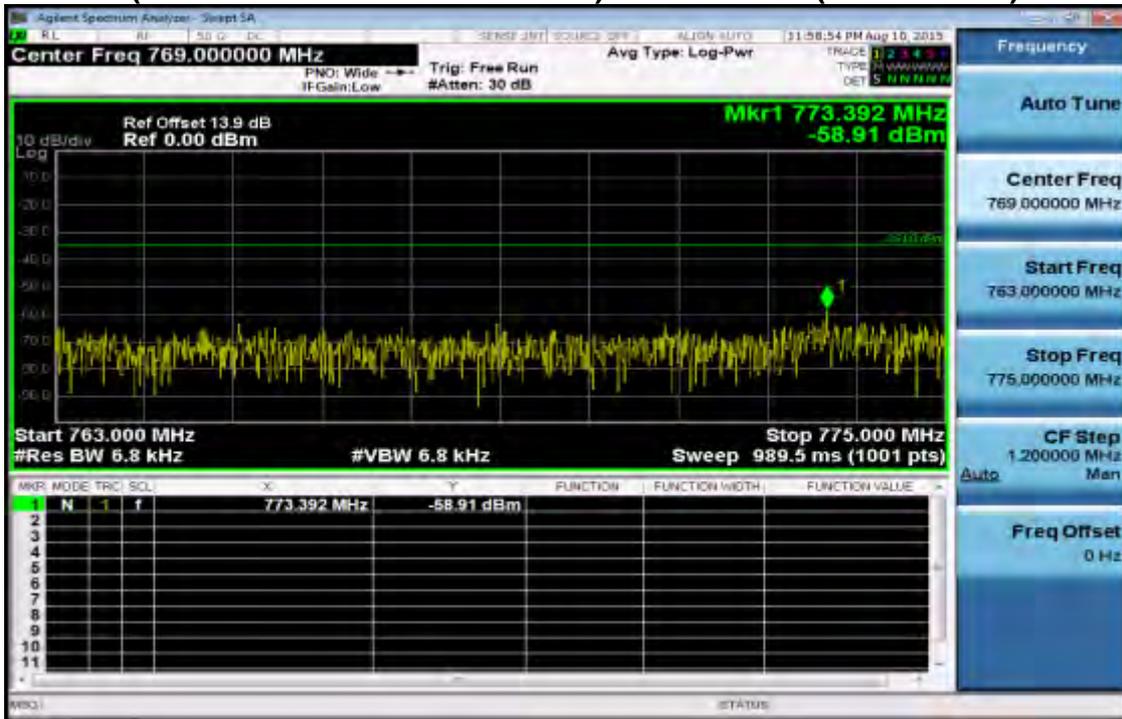
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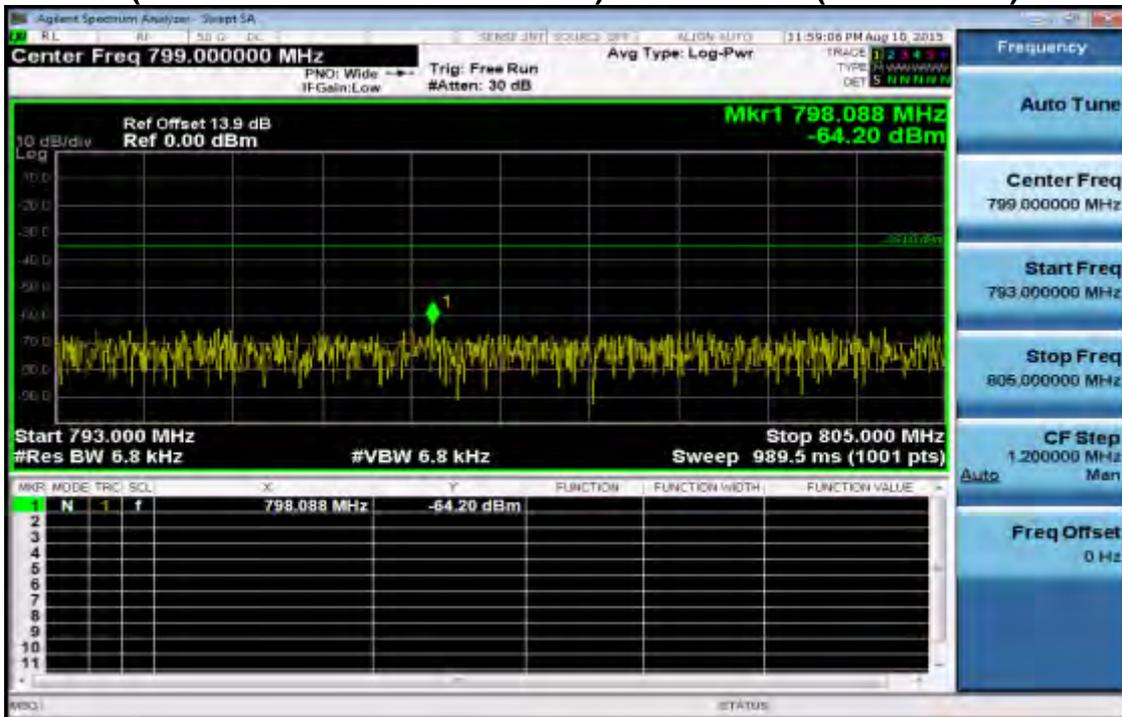
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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)**



**Out of Band emission at antenna terminals –5MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)**

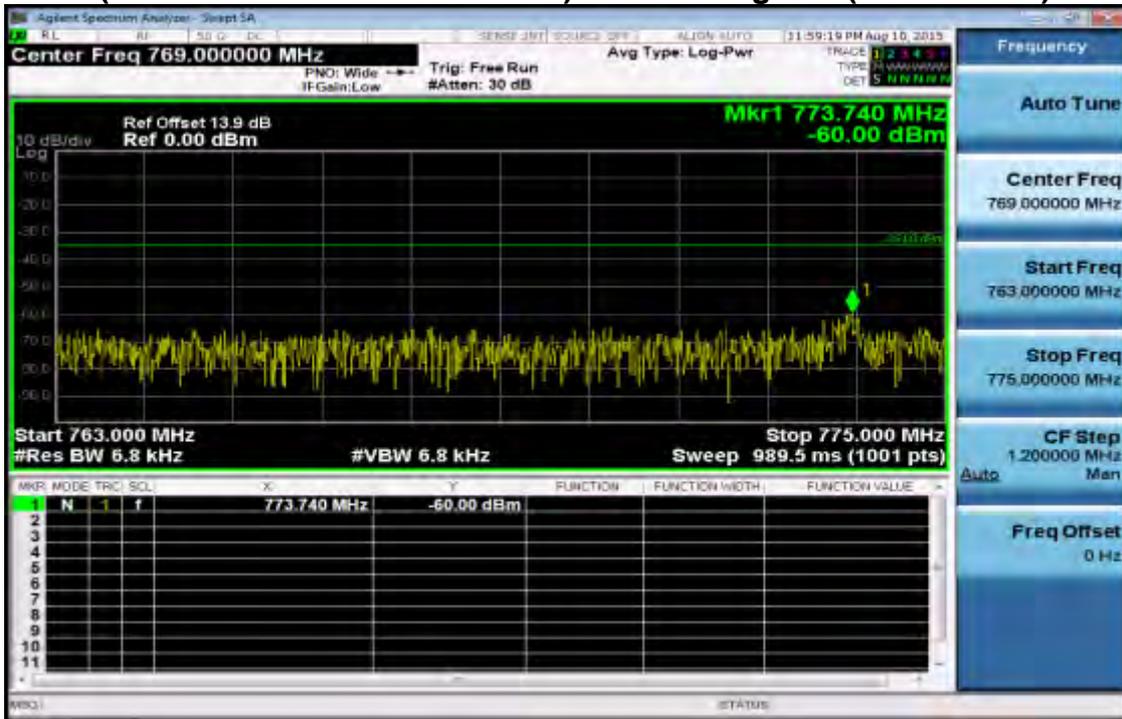


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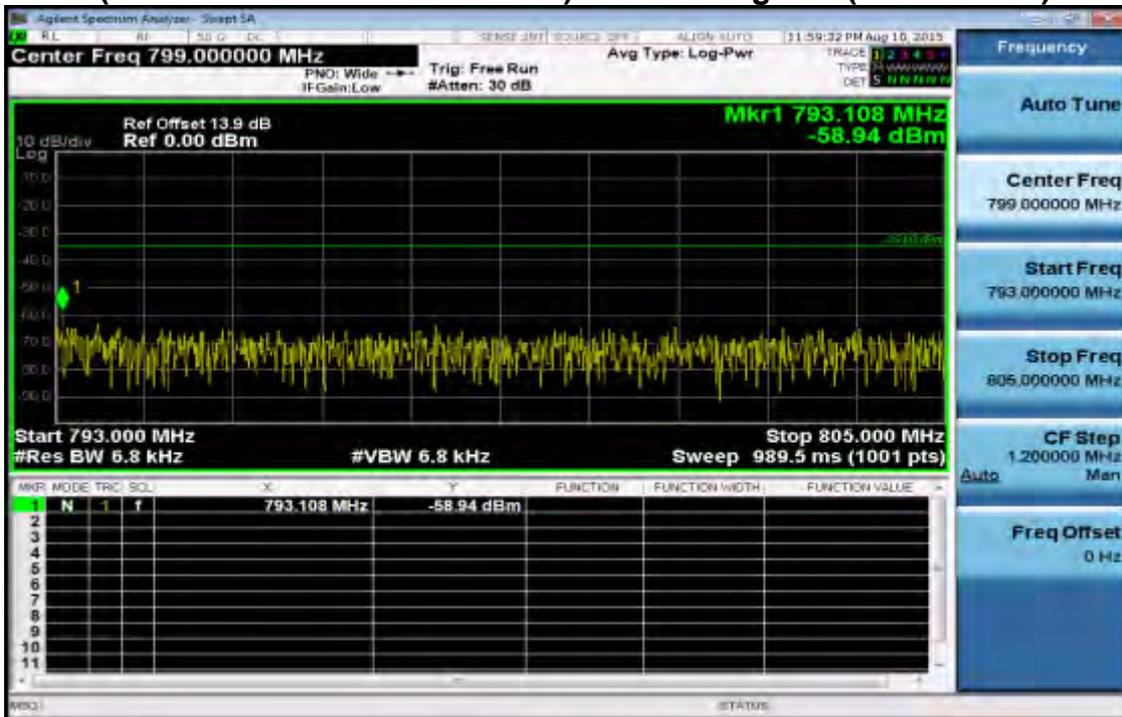
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**Out of Band emission at antenna terminals–5MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 0) Channel Highest (763-775MHz)**



**Out of Band emission at antenna terminals–5MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 0) Channel Highest (793-805MHz)**

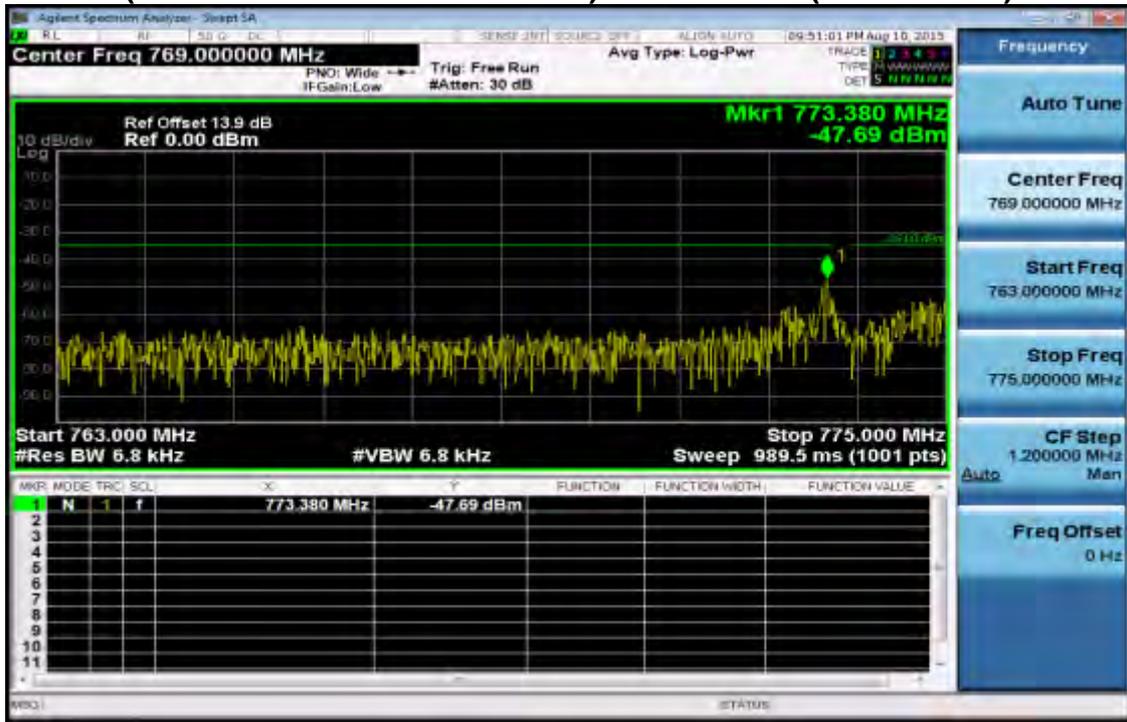


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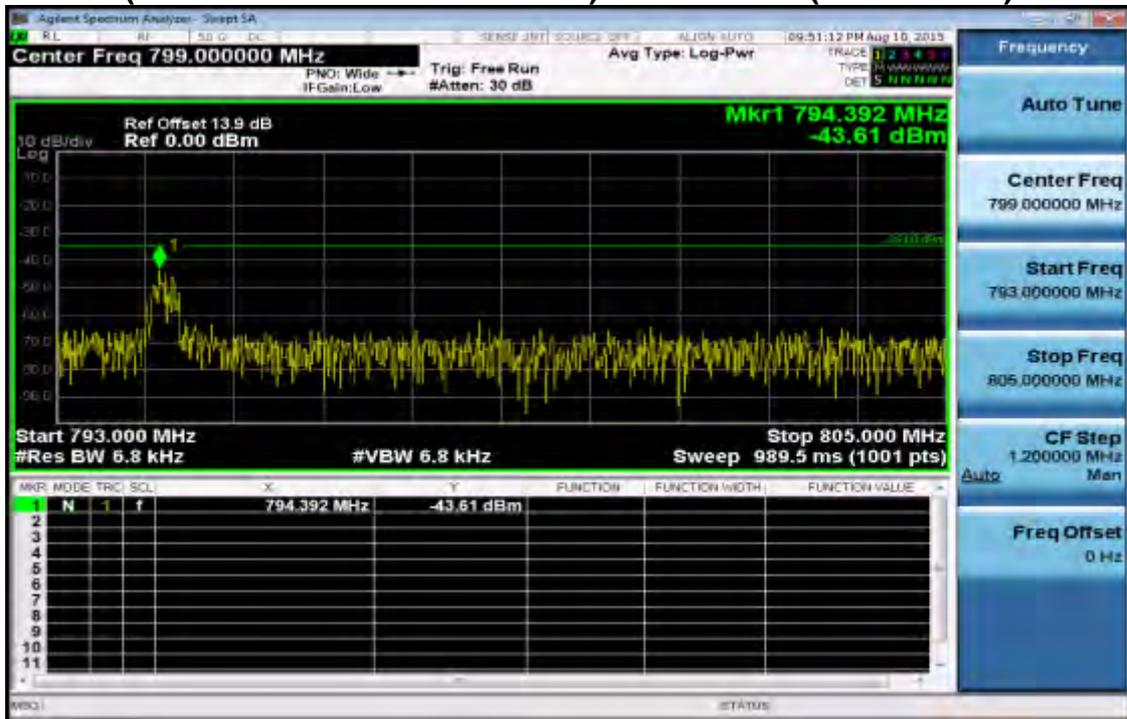
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)**



**Out of Band emission at antenna terminals–10MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)**



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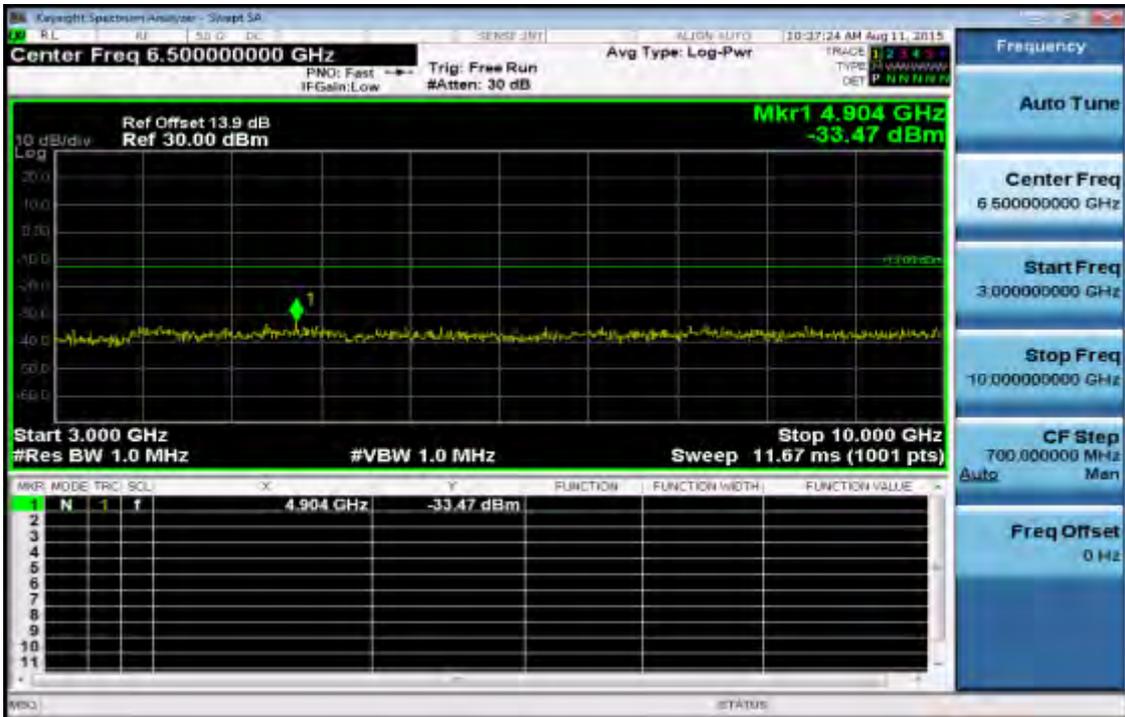
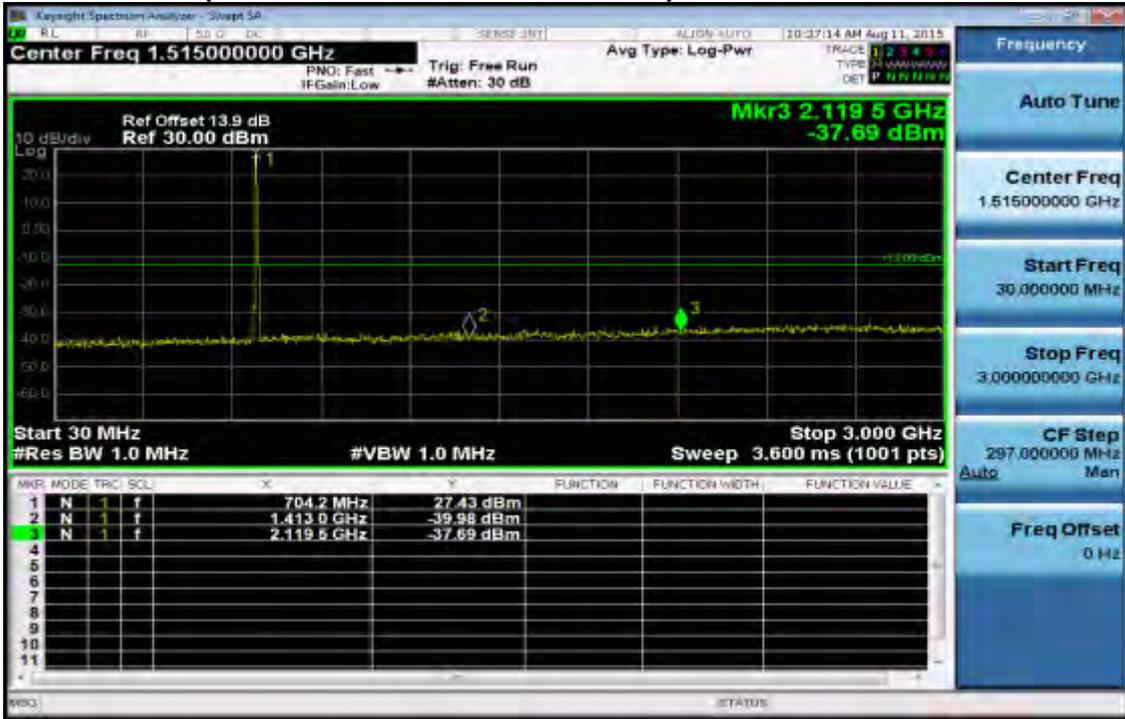
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 17  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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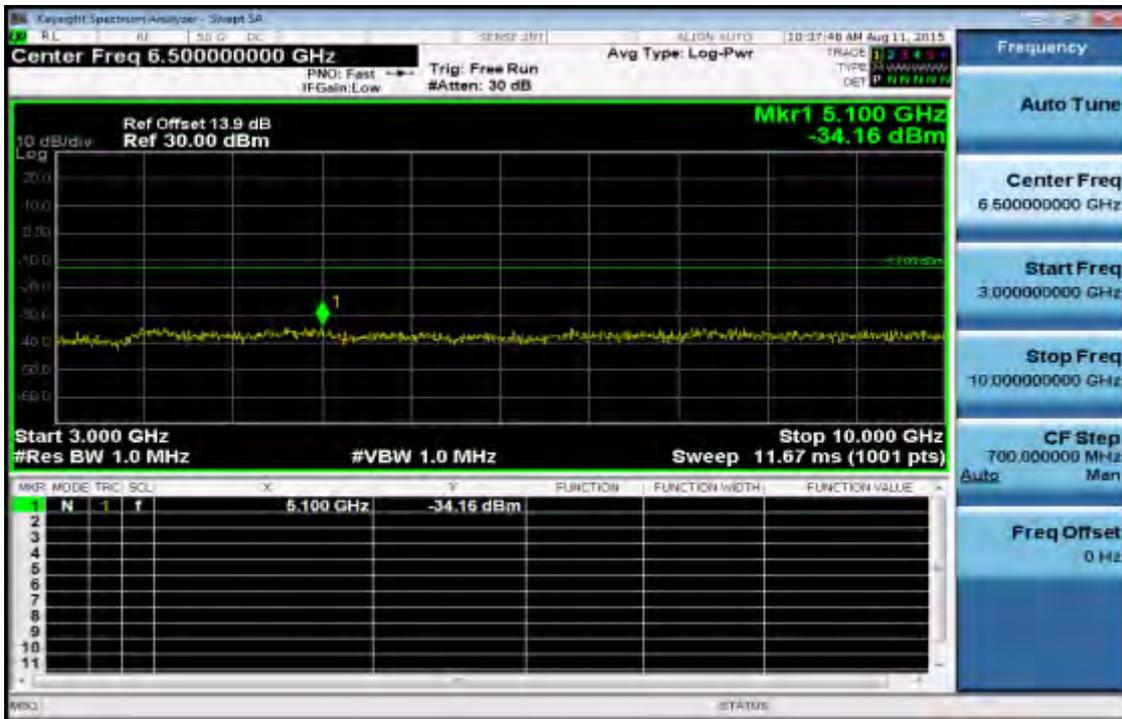
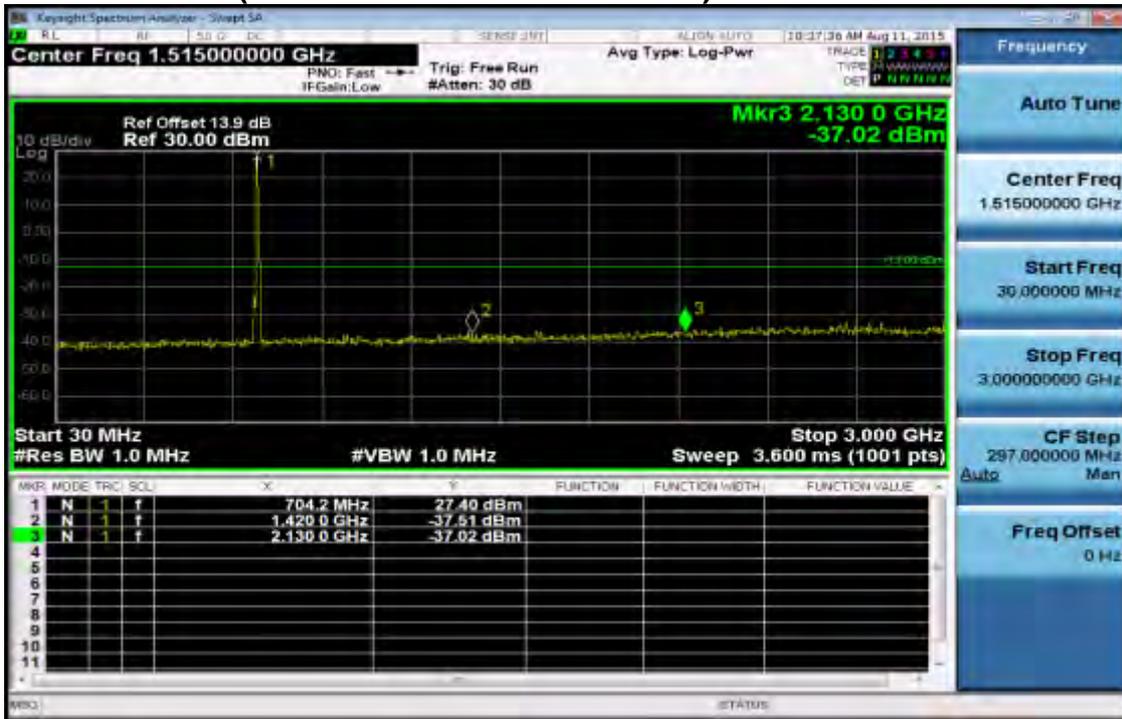
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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 17  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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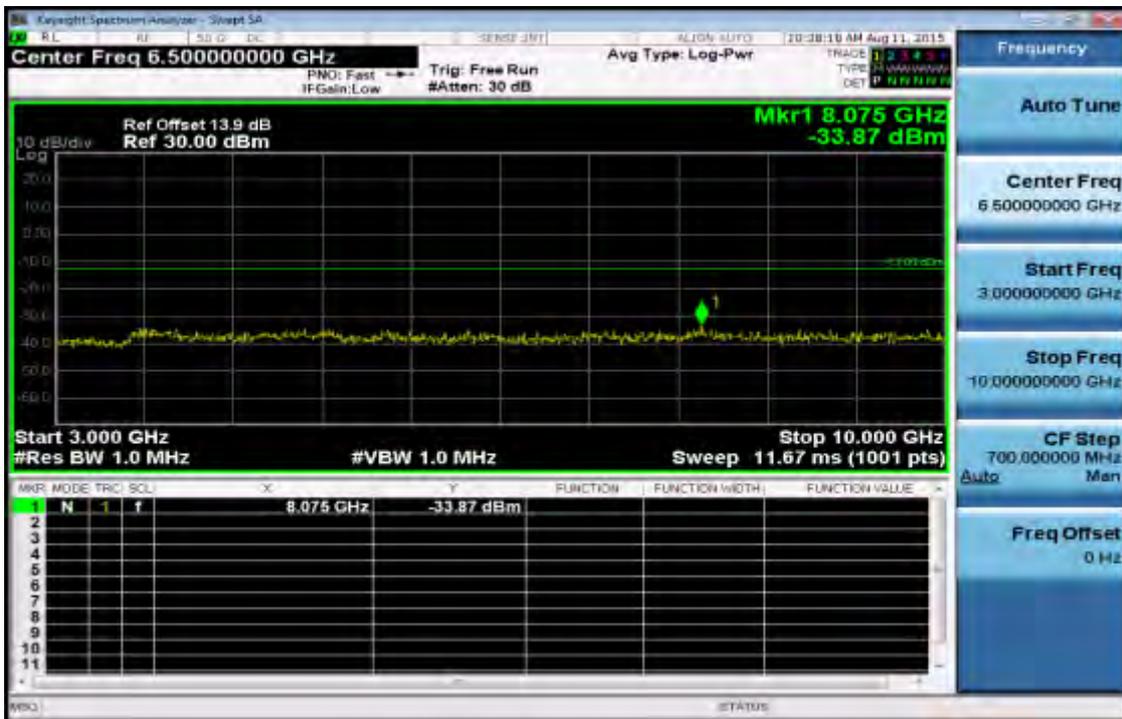
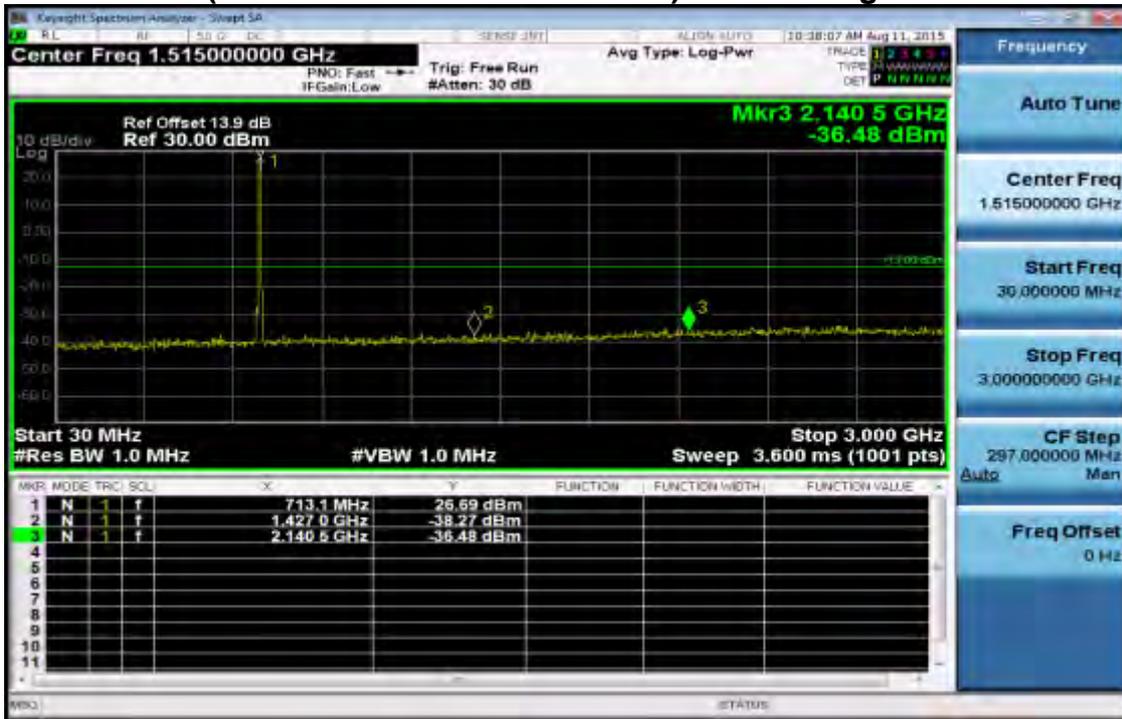
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 17  
 (QPSK RB Number: 1 Offset: 0) Channel Highest



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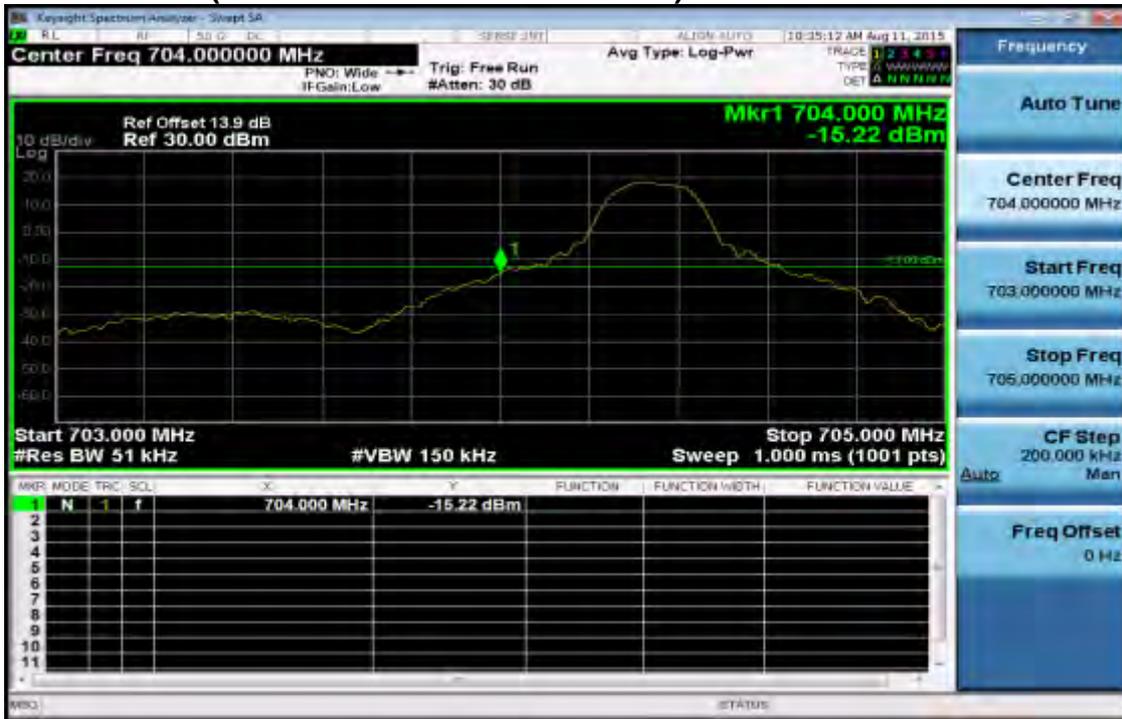
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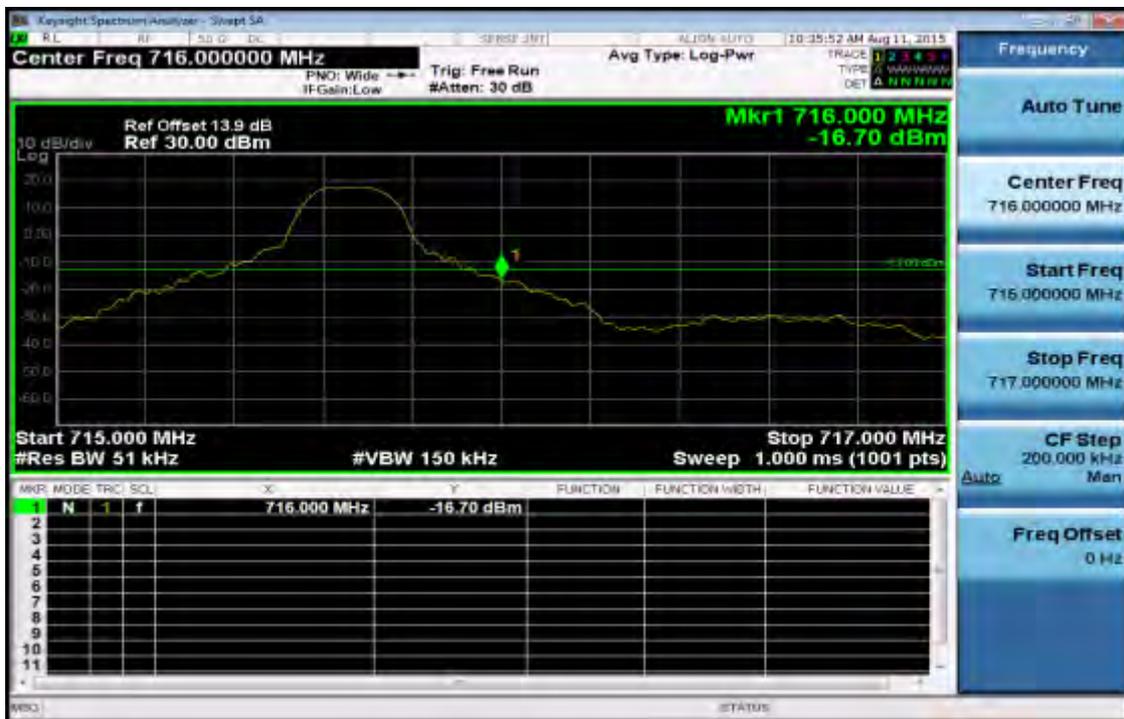
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 17  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 13  
 (QPSK RB Number: 1 Offset: 24) Channel Highest**



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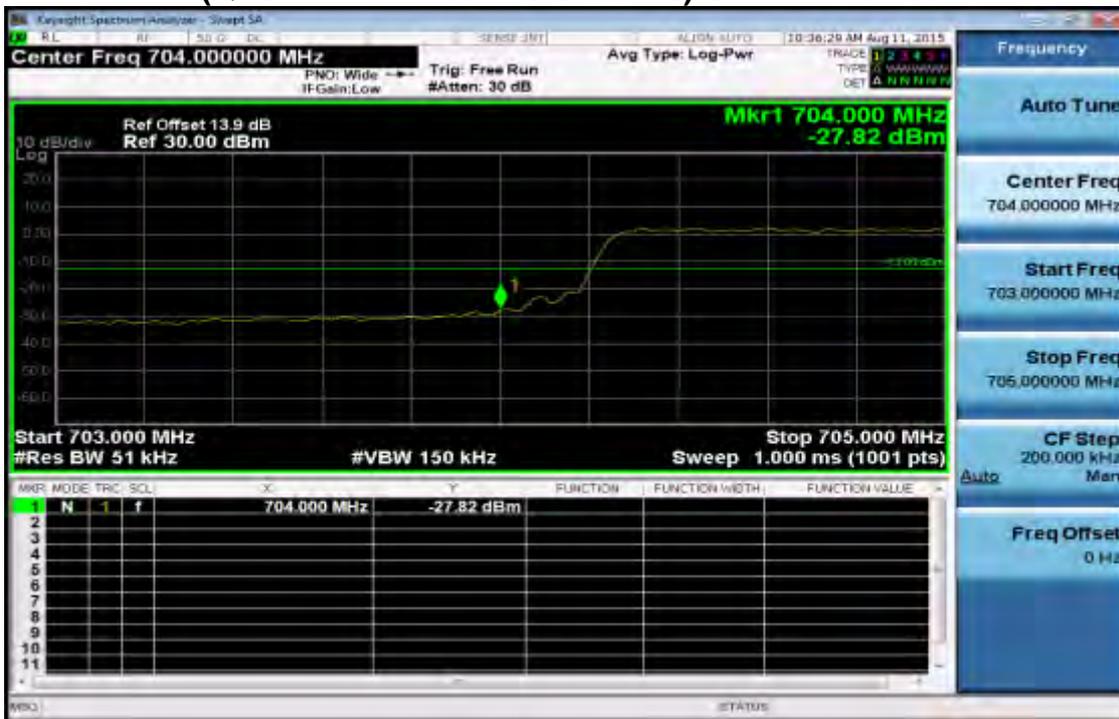
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 17  
 (QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 13  
 (QPSK RB Number: 25 Offset: 0) Channel Highest**

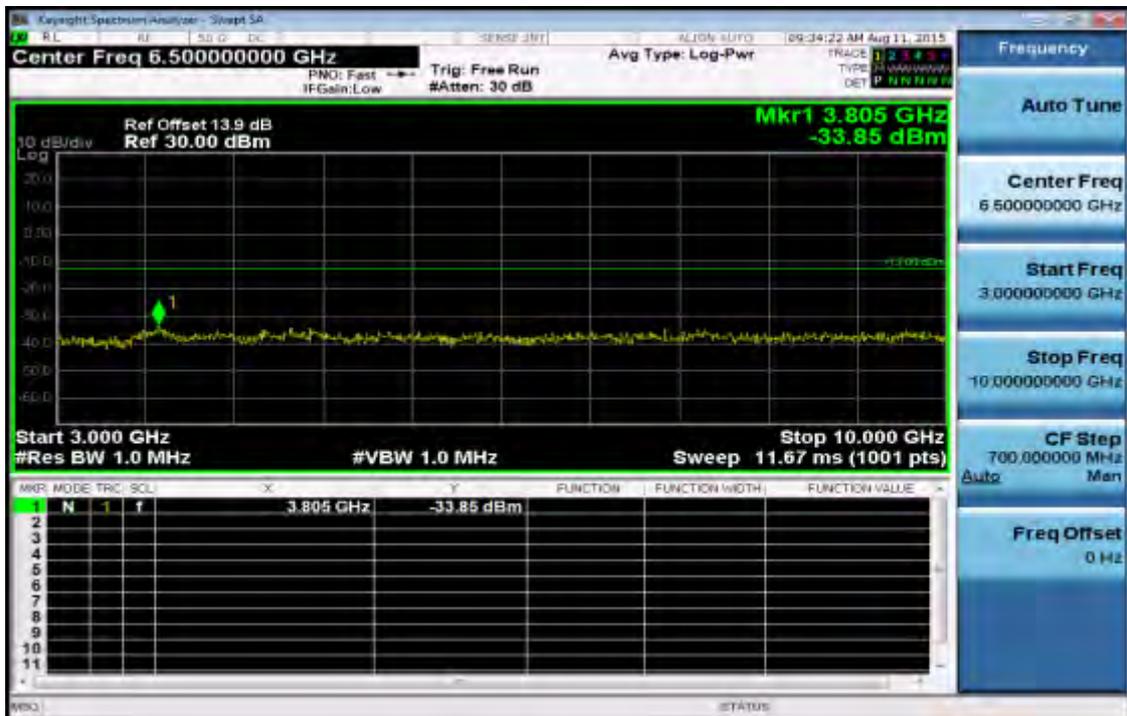
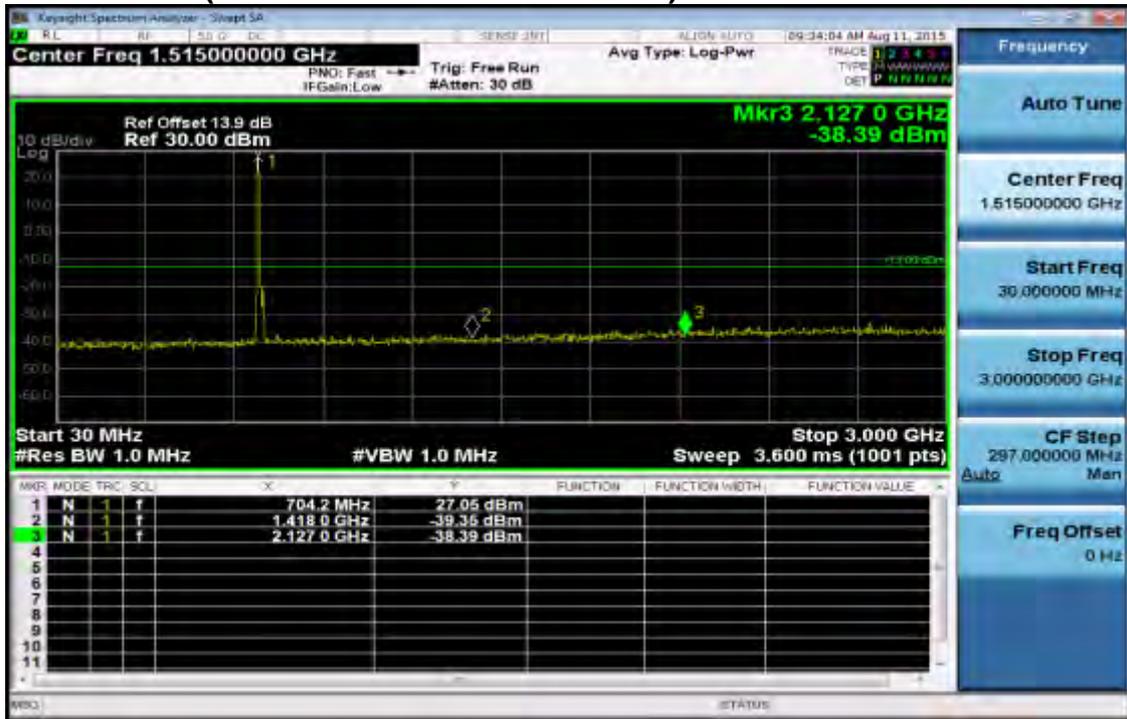


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Out of Band emission at antenna terminals–10MHz BW LTE-Band 17  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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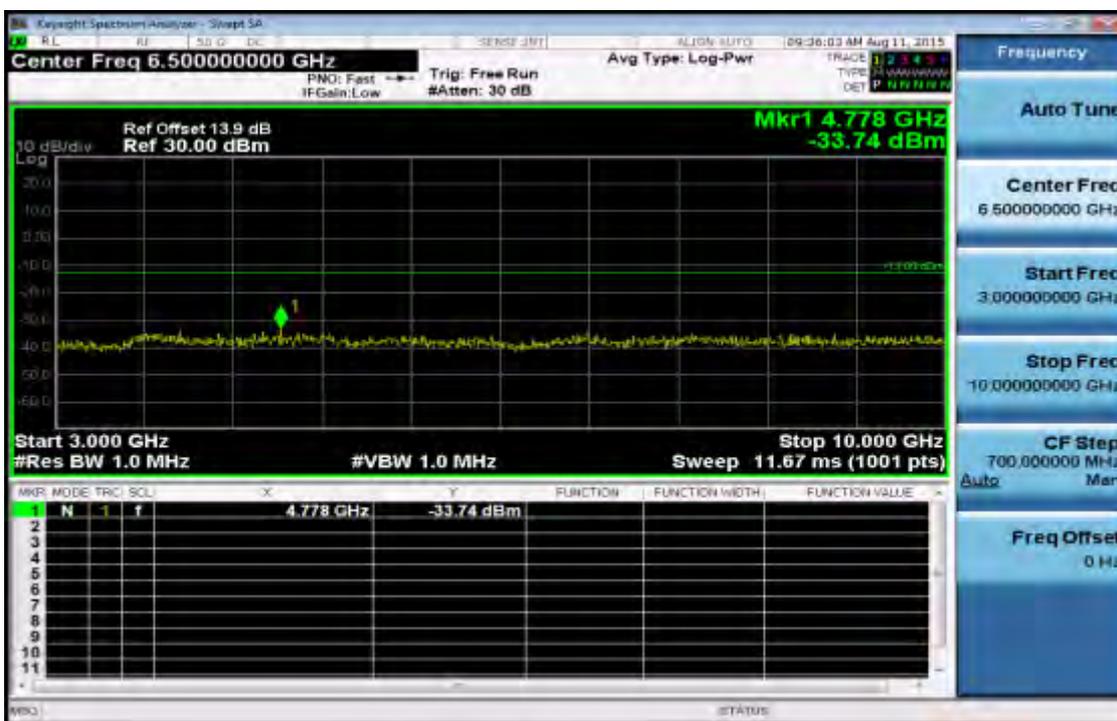
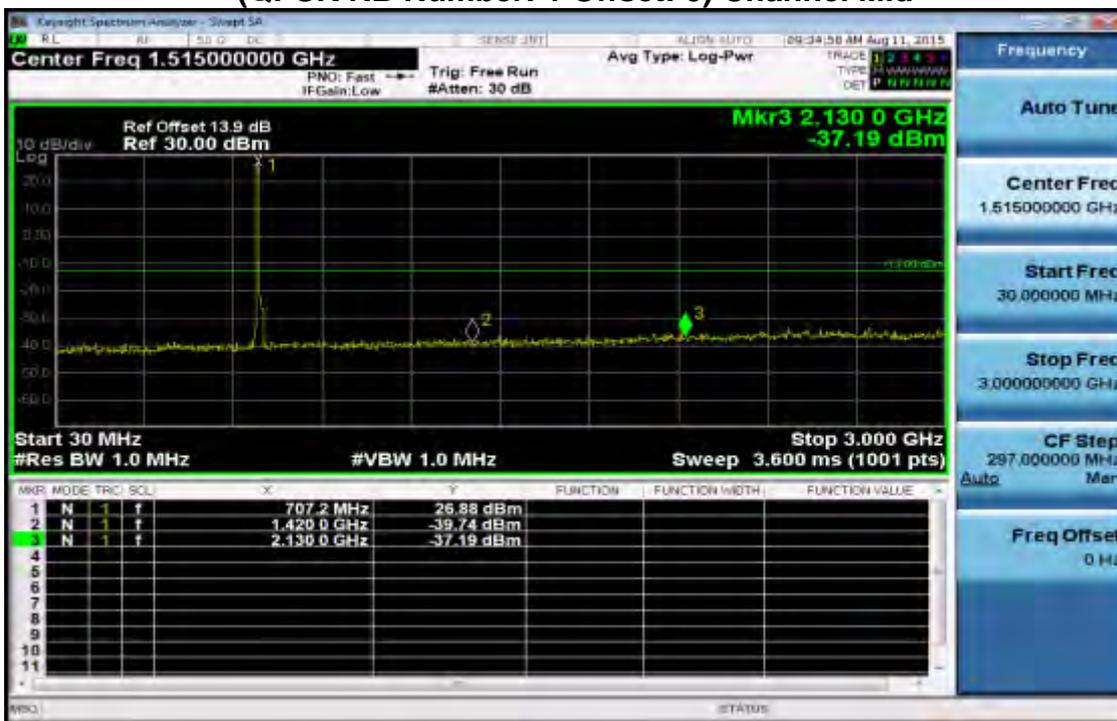
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Out of Band emission at antenna terminals –10MHz BW LTE-Band 17  
 (QPSK RB Number: 1 Offset: 0) Channel Mid



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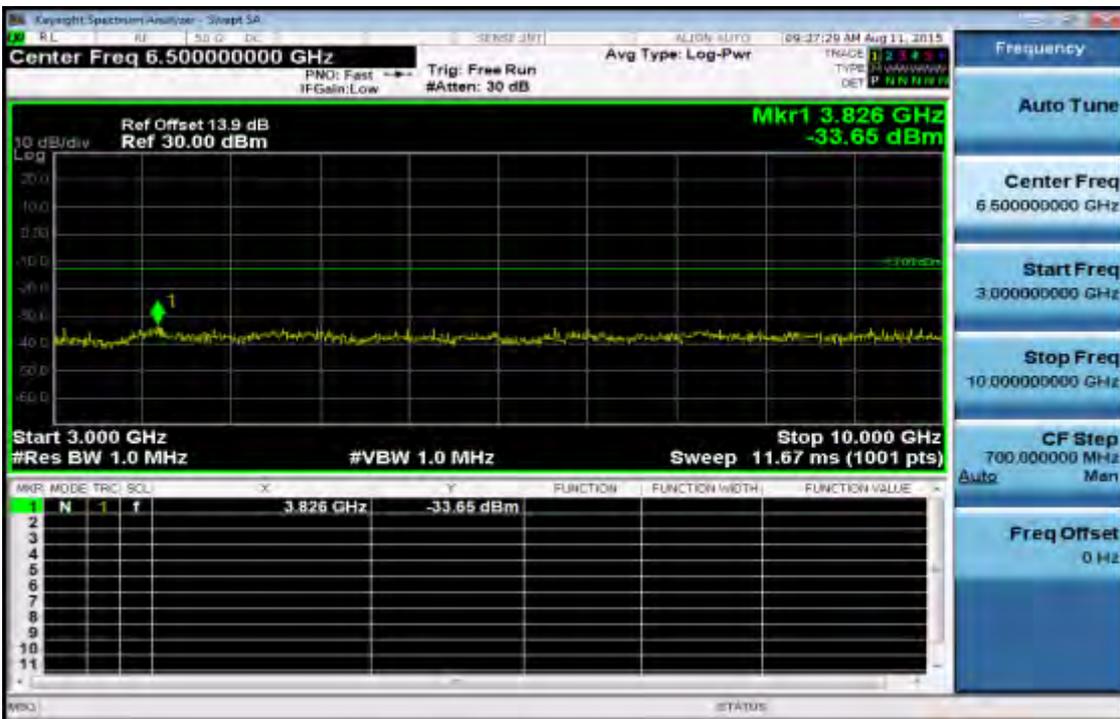
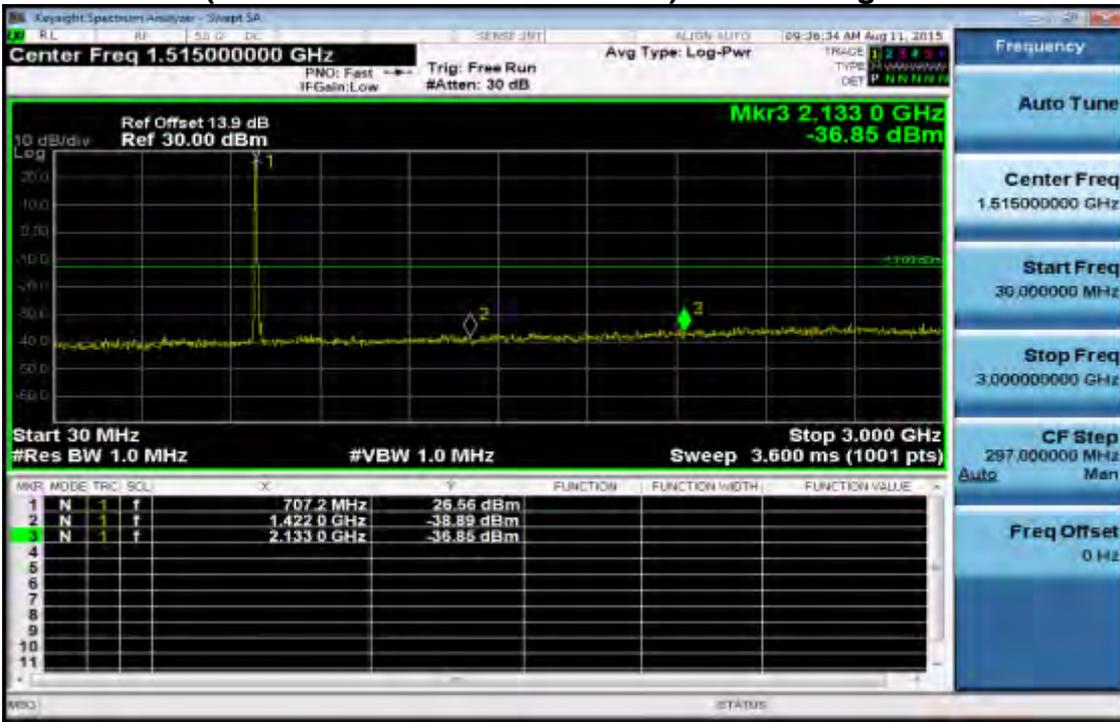
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 17  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 17  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –10MHz BW LTE-Band 17  
 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 17  
 (QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –10MHz BW LTE-Band 17  
 (QPSK RB Number: 50 Offset: 0) Channel Highest**



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## 10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , §27.53(g)(h) , the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

FCC §27.53 (m) (4) shall not be less than  $55 + 10 \log$ (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

§27.53 (c)

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log$  (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than  $65 + 10 \log$  (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to  $-70$  dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and  $-80$  dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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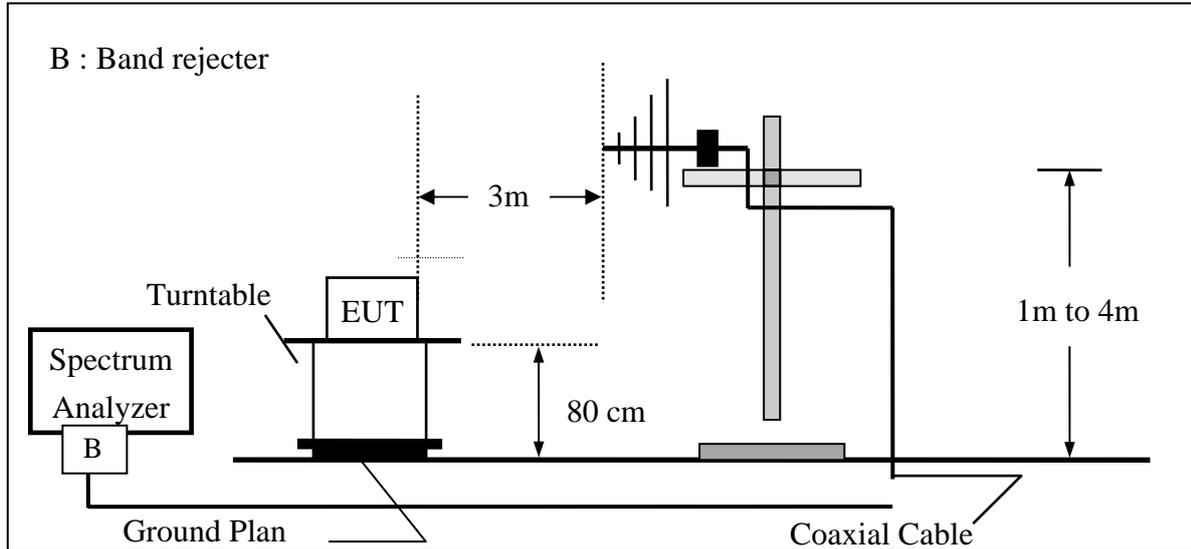
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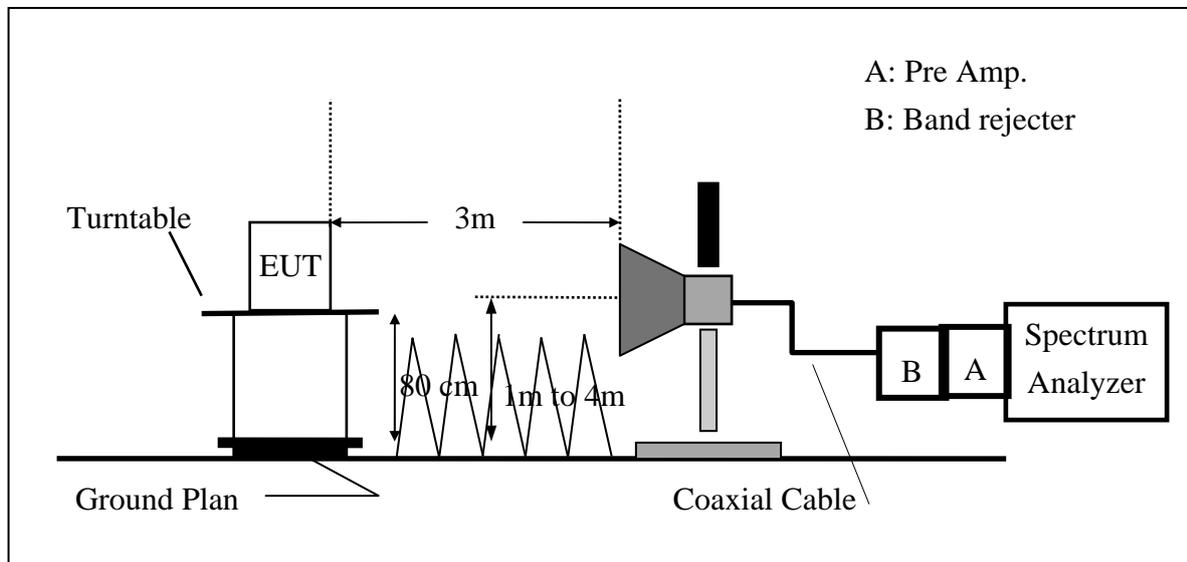
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## 10.2. EUT Setup

### Radiated Emission Test Set-Up, Frequency Below 1000MHz



### Radiated Emission Test Set-UP Frequency Over 1 GHz



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### 10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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**10.4. Measurement Equipment Used:**

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2014	12/04/2015
Broadband Antenna	TESEQ	CBL 6112D	35243	11/14/2014	11/13/2015
Horn Antenna	ETS-Lindgren	3117	00143272	12/08/2014	12/07/2015
Horn Antenna	ETS-Lindgren	3117	00143280	09/23/2014	09/22/2015
Horn Antenna	ETS-Lindgren	3160-09	00117911	11/13/2014	11/12/2015
Horn Antenna	ETS-Lindgren	3160-09	00117910	11/13/2014	11/12/2015
Pre Amplifier	EMC Instruments	EMC330	980096	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-18	10204	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-26	100780	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF27	12/19/2014	12/18/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2015	05/03/2016
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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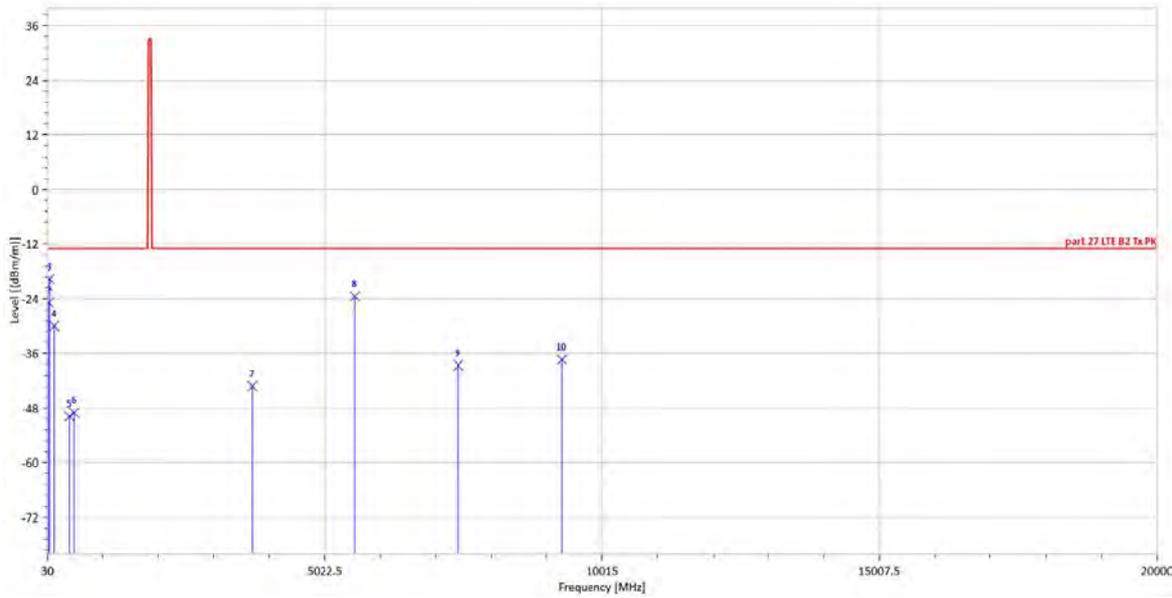
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**10.5. Measurement Result:**

**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 2(The Worst Case)**

ARFCN	:CH 19975 16QAM	Test Date	:2015-08-12
	BW 5 RB 1 24		
Operation Band	:LTE B2	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
33.24	S	-21.11	-2.87	-17.54	-0.70	-13.00	-8.11
57.53	S	-24.90	-21.96	-2.01	-0.93	-13.00	-11.90
68.86	S	-19.66	-18.70	0.07	-1.03	-13.00	-6.66
153.07	S	-29.95	-31.10	2.76	-1.61	-13.00	-16.95
436.46	S	-49.84	-53.08	5.66	-2.41	-13.00	-36.84
520.67	S	-49.04	-52.56	6.16	-2.64	-13.00	-36.04
3719.53	H	-43.21	-45.04	8.69	-6.85	-13.00	-30.21
5567.61	H	-23.45	-26.02	10.33	-7.76	-13.00	-10.45
7430.72	H	-38.62	-40.52	11.54	-9.64	-13.00	-25.62

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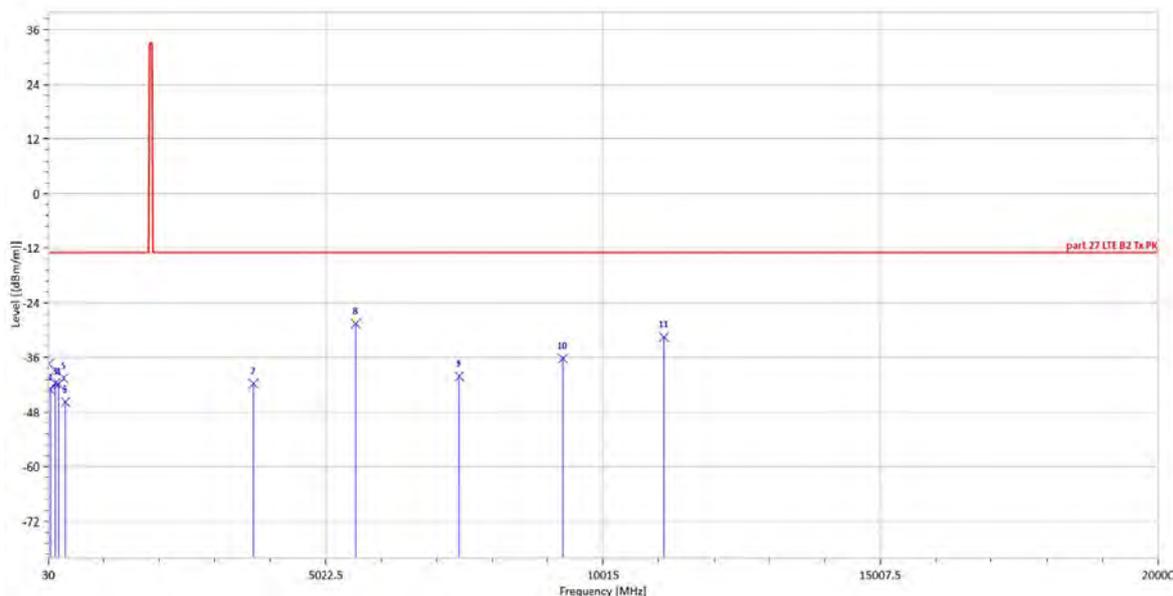
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ARFCN	:CH 19975 16QAM BW 5 RB 1 24	Test Date	:2015-08-12
Operation Band	:LTE B2	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
34.86	S	-37.41	-20.56	-16.13	-0.72	-13.00	-24.41
67.25	S	-43.06	-41.91	-0.13	-1.02	-13.00	-30.06
154.69	S	-41.67	-43.13	2.93	-1.47	-13.00	-28.67
211.37	S	-41.87	-46.25	6.15	-1.77	-13.00	-28.87
308.53	S	-40.54	-44.01	5.64	-2.17	-13.00	-27.54
344.16	S	-45.81	-49.09	5.60	-2.31	-13.00	-32.81
3719.53	H	-41.74	-43.57	8.69	-6.85	-13.00	-28.74
5567.61	H	-28.57	-31.14	10.33	-7.76	-13.00	-15.57
7430.72	H	-40.10	-42.01	11.54	-9.64	-13.00	-27.10
9293.82	H	-36.21	-38.38	13.00	-10.83	-13.00	-23.21
11118.53	H	-31.49	-32.86	13.18	-11.81	-13.00	-18.49

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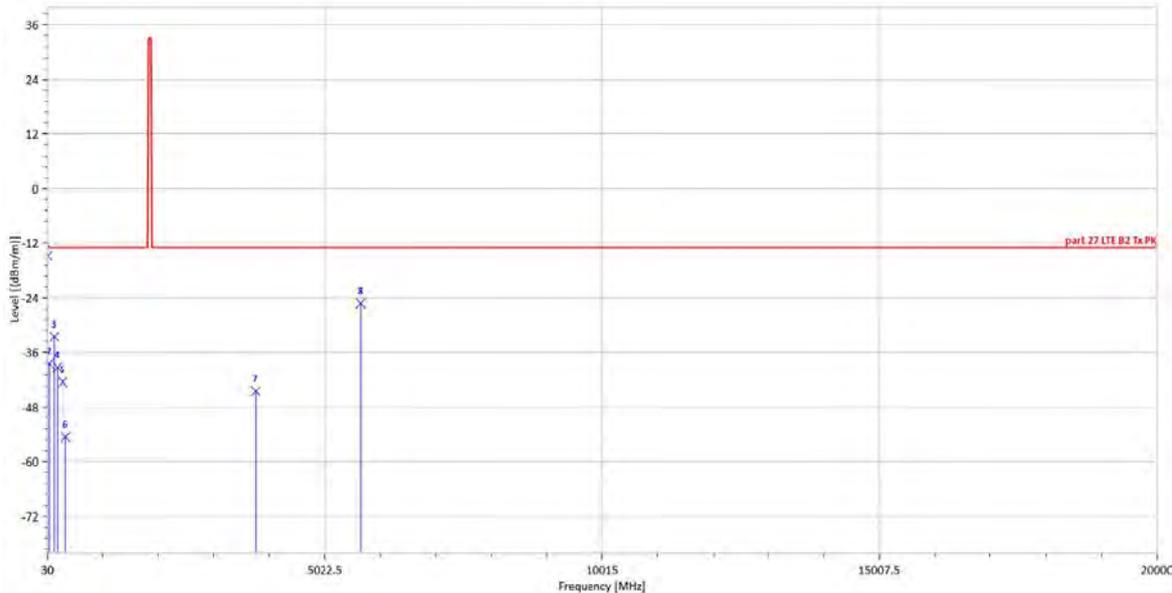
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ARFCN	:CH 18900 16QAM	Test Date	:2015-08-12
	BW 5 RB 1 24		
Operation Band	:LTE B2	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:1880 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



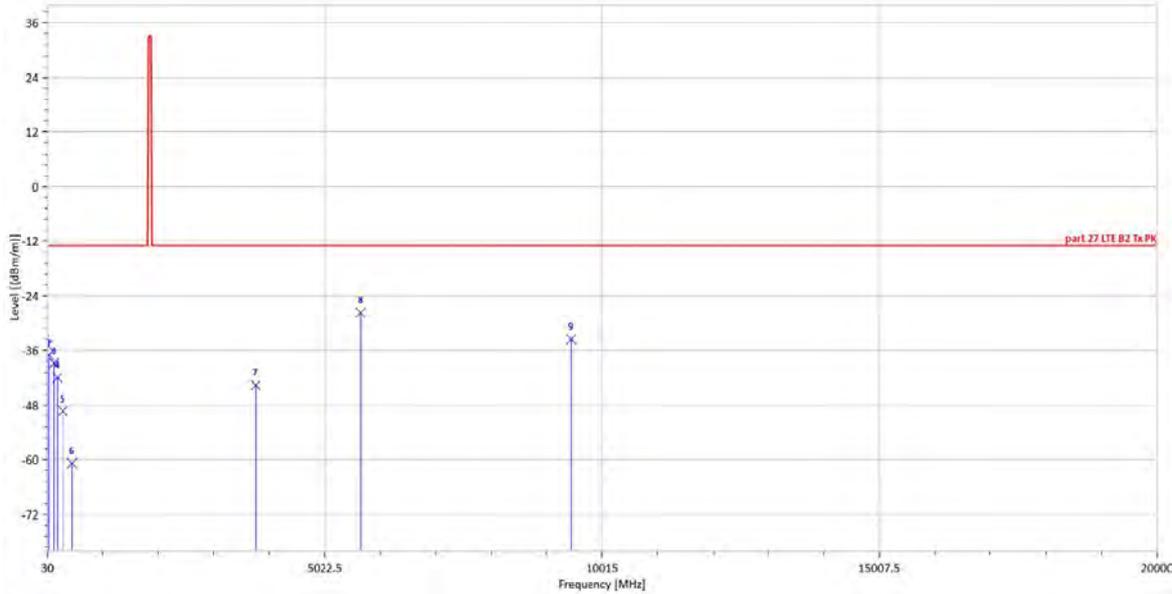
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
33.24	S	-14.74	3.50	-17.54	-0.70	-13.00	-1.74
65.63	S	-38.44	-37.12	-0.33	-0.99	-13.00	-25.44
154.69	S	-32.57	-34.02	2.93	-1.47	-13.00	-19.57
212.99	S	-39.24	-43.61	6.15	-1.78	-13.00	-26.24
310.15	S	-42.49	-45.91	5.64	-2.21	-13.00	-29.49
363.59	S	-54.58	-57.78	5.52	-2.32	-13.00	-41.58
3779.63	H	-44.48	-46.27	8.71	-6.92	-13.00	-31.48
5672.79	H	-25.24	-27.48	10.37	-8.12	-13.00	-12.24

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ARFCN	:CH 18900 16QAM	Test Date	:2015-08-12
	BW 5 RB 1 24		
Operation Band	:LTE B2	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:1880 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
33.24	S	-34.85	-16.61	-17.54	-0.70	-13.00	-21.85
57.53	S	-36.95	-34.01	-2.01	-0.93	-13.00	-23.95
149.83	S	-38.76	-39.73	2.40	-1.43	-13.00	-25.76
211.37	S	-41.96	-46.34	6.15	-1.77	-13.00	-28.96
313.39	S	-49.31	-52.83	5.63	-2.11	-13.00	-36.31
483.42	S	-60.76	-64.35	6.05	-2.46	-13.00	-47.76
3779.63	H	-43.60	-45.40	8.71	-6.92	-13.00	-30.60
5672.79	H	-27.69	-29.94	10.37	-8.12	-13.00	-14.69
9459.10	H	-33.55	-35.58	13.00	-10.97	-13.00	-20.55

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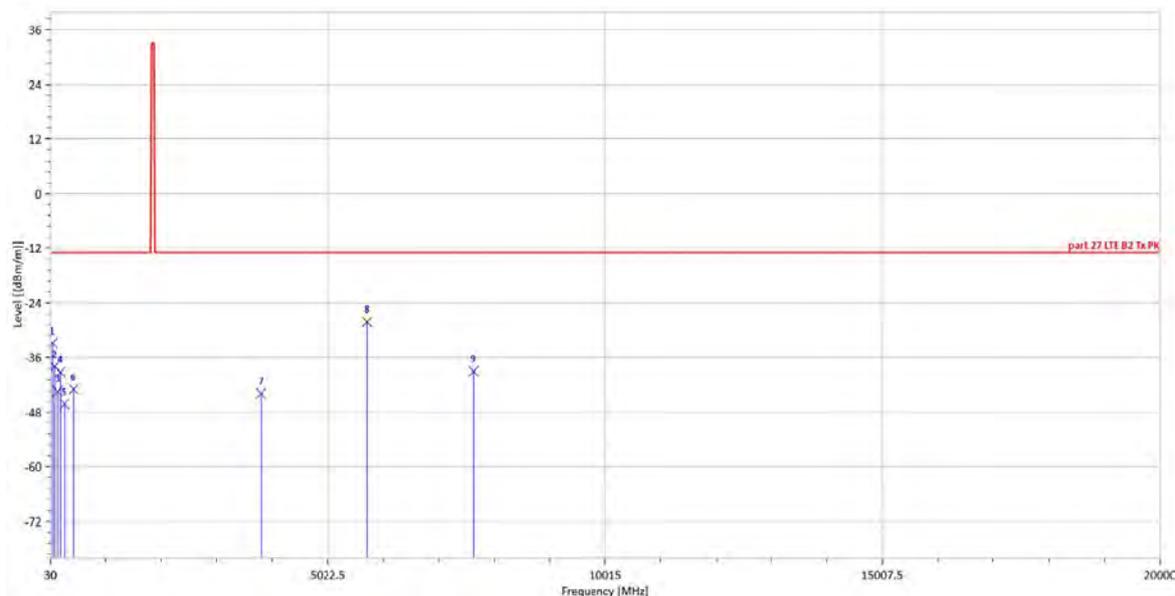
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ARFCN	:CH 20375 16QAM	Test Date	:2015-08-12
	BW 5 RB 1 24		
Operation Band	:LTE B2	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:1907.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
68.86	S	-32.86	-31.90	0.07	-1.03	-13.00	-19.86
106.11	S	-37.99	-35.40	-1.35	-1.23	-13.00	-24.99
159.55	S	-43.42	-45.35	3.44	-1.52	-13.00	-30.42
211.37	S	-39.18	-43.56	6.15	-1.77	-13.00	-26.18
287.48	S	-46.21	-49.71	5.53	-2.03	-13.00	-33.21
459.13	S	-42.97	-46.17	5.85	-2.64	-13.00	-29.97
3824.71	H	-43.90	-45.71	8.73	-6.92	-13.00	-30.90
5732.89	H	-28.19	-30.39	10.39	-8.19	-13.00	-15.19
7656.09	H	-39.05	-40.84	11.76	-9.96	-13.00	-26.05

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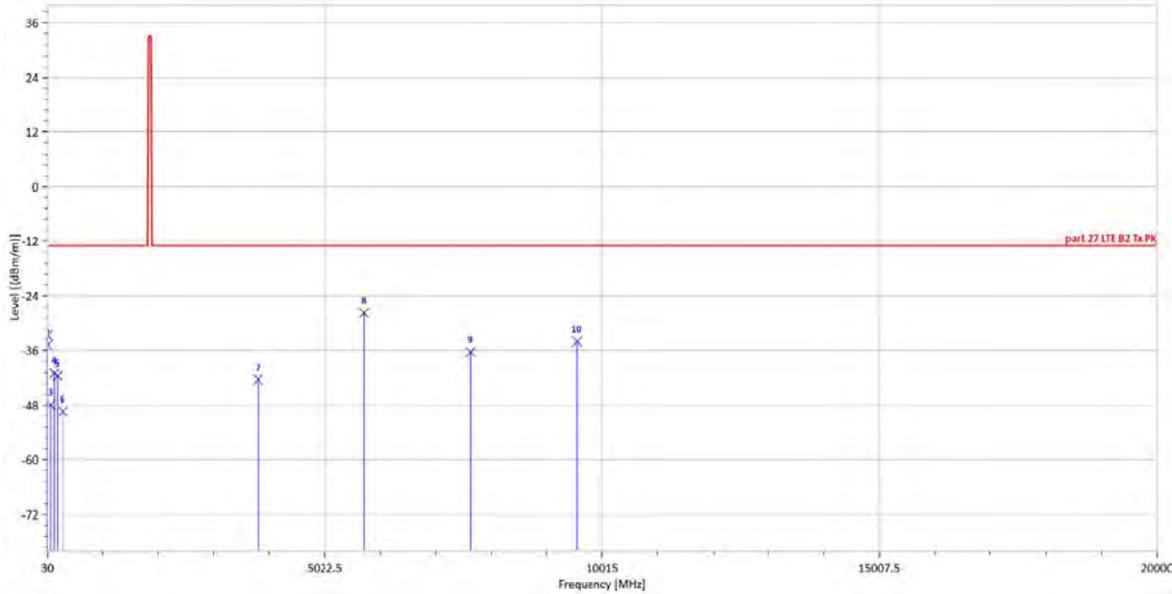
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ARFCN	:CH 20375 16QAM	Test Date	:2015-08-12
	BW 5 RB 1 24		
Operation Band	:LTE B2	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:1907.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-32.71	-13.08	-18.94	-0.69	-13.00	-19.71
34.86	S	-34.84	-17.98	-16.13	-0.72	-13.00	-21.84
88.30	S	-47.93	-46.81	-0.01	-1.11	-13.00	-34.93
154.69	S	-41.03	-42.48	2.93	-1.47	-13.00	-28.03
211.37	S	-41.58	-45.96	6.15	-1.77	-13.00	-28.58
313.39	S	-49.44	-52.96	5.63	-2.11	-13.00	-36.44
3824.71	H	-42.41	-44.22	8.73	-6.92	-13.00	-29.41
5732.89	H	-27.73	-29.93	10.39	-8.19	-13.00	-14.73
7656.09	H	-36.33	-38.13	11.76	-9.96	-13.00	-23.33
9564.27	H	-34.03	-36.03	13.01	-11.02	-13.00	-21.03

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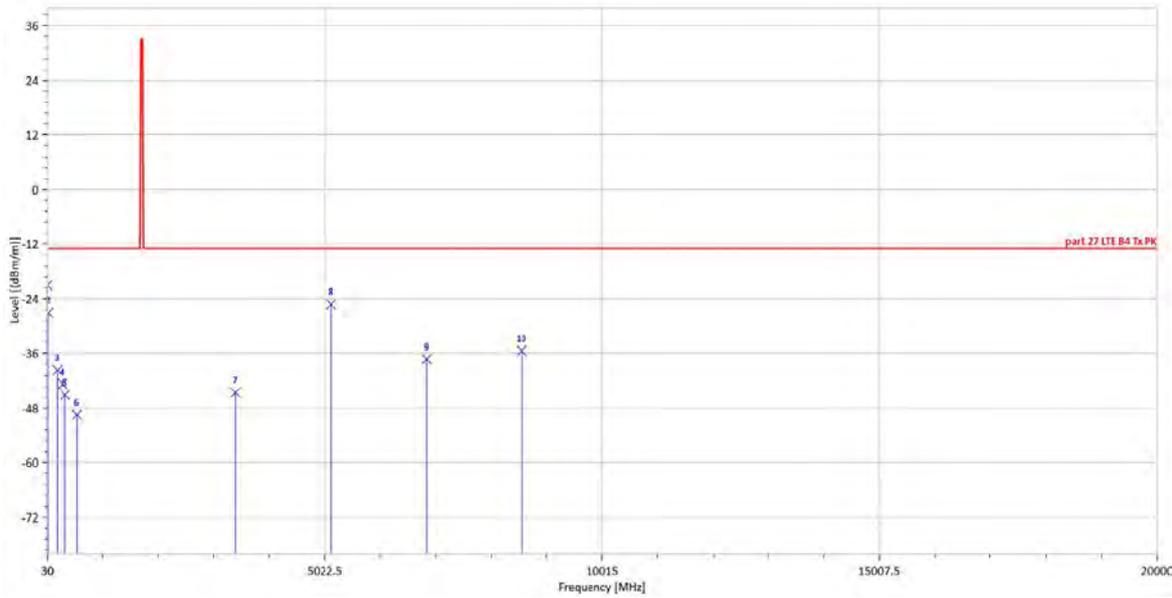
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**Radiated Spurious Emission Measurement Result: 20MHz BW LTE-Band 4(The Worst Case)**

ARFCN	:CH 20050 QPSK BW 20 RB 1 0	Test Date	:2015-08-12
Operation Band	:LTE B4	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:1720 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

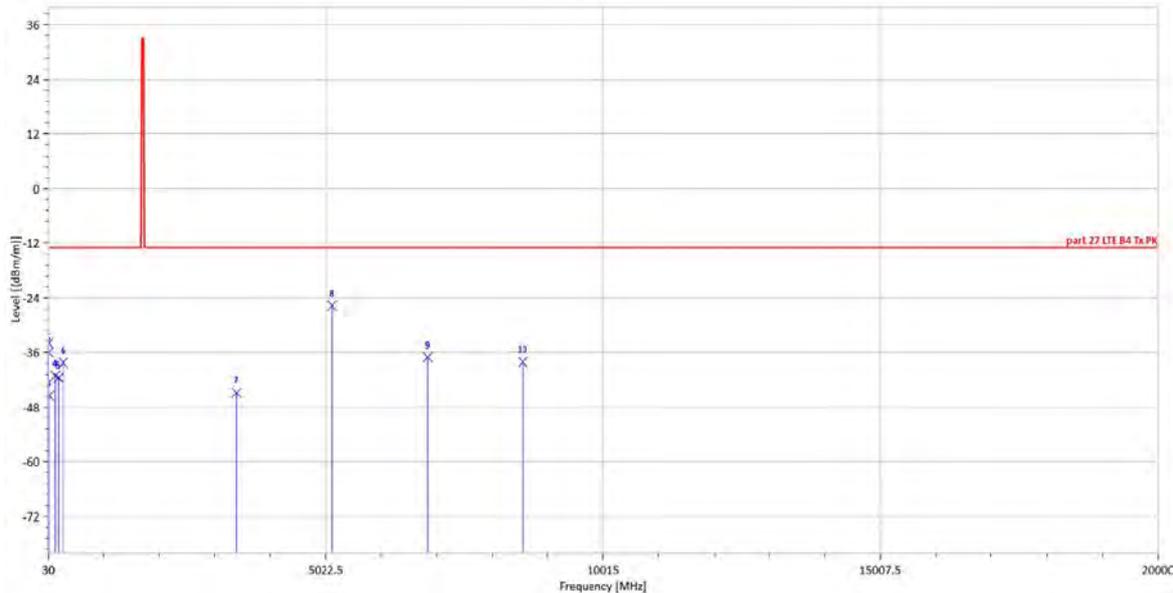


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-21.04	-1.41	-18.94	-0.69	-13.00	-8.04
44.57	S	-27.09	-17.87	-8.46	-0.77	-13.00	-14.09
211.37	S	-39.68	-44.06	6.15	-1.77	-13.00	-26.68
306.91	S	-42.74	-46.27	5.64	-2.11	-13.00	-29.74
353.87	S	-45.11	-48.35	5.57	-2.32	-13.00	-32.11
570.87	S	-49.50	-52.96	6.27	-2.80	-13.00	-36.50
3419.03	H	-44.58	-46.24	8.34	-6.68	-13.00	-31.58
5146.91	H	-25.27	-27.96	10.09	-7.40	-13.00	-12.27
6859.77	H	-37.29	-39.09	11.06	-9.25	-13.00	-24.29
8572.62	H	-35.42	-37.72	12.91	-10.62	-13.00	-22.42

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ARFCN	:CH 20050 QPSK BW 20 RB 1 0	Test Date	:2015-08-12
Operation Band	:LTE B4	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:1720 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-33.98	-14.34	-18.94	-0.69	-13.00	-20.98
34.86	S	-35.97	-19.12	-16.13	-0.72	-13.00	-22.97
42.95	S	-45.49	-35.00	-9.69	-0.80	-13.00	-32.49
154.69	S	-41.12	-42.58	2.93	-1.47	-13.00	-28.12
212.99	S	-41.56	-45.93	6.15	-1.78	-13.00	-28.56
302.05	S	-38.27	-41.81	5.65	-2.10	-13.00	-25.27
3419.03	H	-44.88	-46.54	8.34	-6.68	-13.00	-31.88
5146.91	H	-25.69	-28.38	10.09	-7.40	-13.00	-12.69
6859.77	H	-37.05	-38.86	11.06	-9.25	-13.00	-24.05
8572.62	H	-38.10	-40.40	12.91	-10.62	-13.00	-25.10

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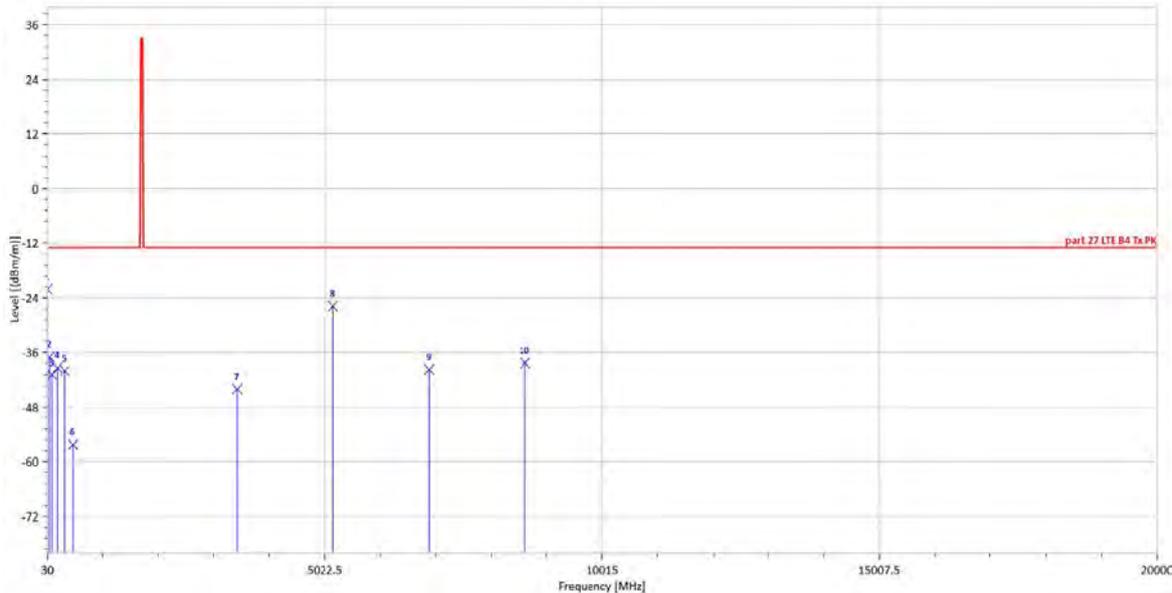
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ARFCN	:CH 20175 QPSK BW 20 RB 1 0	Test Date	:2015-08-12
Operation Band	:LTE B4	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
33.24	S	-22.09	-3.84	-17.54	-0.70	-13.00	-9.09
67.25	S	-37.00	-35.85	-0.13	-1.02	-13.00	-24.00
114.21	S	-40.89	-38.30	-1.31	-1.29	-13.00	-27.89
211.37	S	-39.40	-43.78	6.15	-1.77	-13.00	-26.40
352.25	S	-40.04	-43.30	5.58	-2.31	-13.00	-27.04
499.62	S	-56.24	-59.61	6.19	-2.81	-13.00	-43.24
3449.08	H	-44.02	-45.90	8.44	-6.56	-13.00	-31.02
5176.96	H	-25.81	-28.66	10.11	-7.26	-13.00	-12.81
6904.84	H	-39.74	-41.33	11.10	-9.52	-13.00	-26.74
8632.72	H	-38.29	-40.71	12.93	-10.50	-13.00	-25.29

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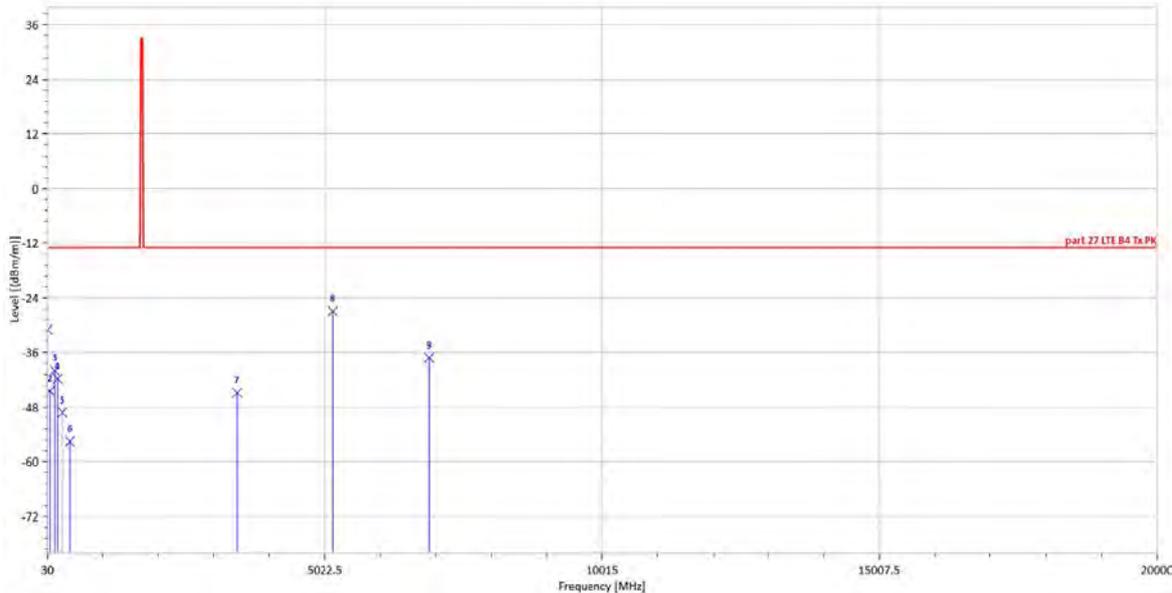
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ARFCN	:CH 20175 QPSK BW 20 RB 1 0	Test Date	:2015-08-12
Operation Band	:LTE B4	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
33.24	S	-30.96	-12.72	-17.54	-0.70	-13.00	-17.96
75.34	S	-44.42	-43.71	0.35	-1.06	-13.00	-31.42
161.17	S	-39.95	-41.91	3.63	-1.67	-13.00	-26.95
212.99	S	-41.80	-46.17	6.15	-1.78	-13.00	-28.80
303.67	S	-49.16	-52.73	5.65	-2.07	-13.00	-36.16
446.18	S	-55.52	-58.74	5.74	-2.52	-13.00	-42.52
3449.08	H	-44.84	-46.72	8.44	-6.56	-13.00	-31.84
5176.96	H	-26.92	-29.77	10.11	-7.26	-13.00	-13.92
6904.84	H	-37.19	-38.77	11.10	-9.52	-13.00	-24.19

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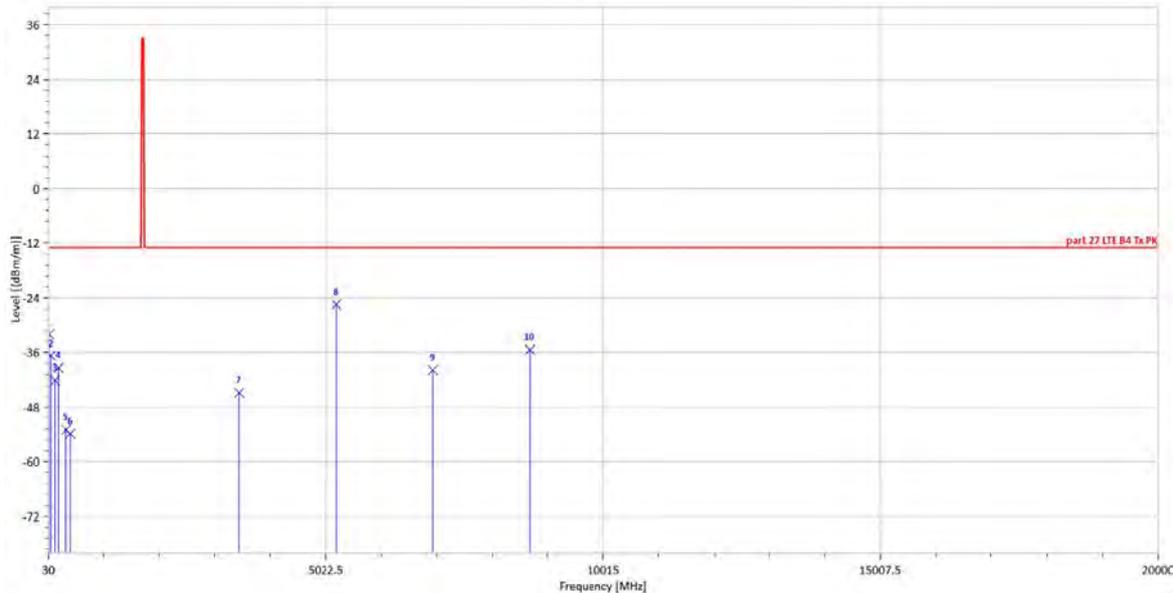
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ARFCN	:CH 20300 QPSK BW 20 RB 1 0	Test Date	:2015-08-12
Operation Band	:LTE B4	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:1745.0 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
42.95	S	-31.98	-21.49	-9.69	-0.80	-13.00	-18.98
75.34	S	-36.71	-36.00	0.35	-1.06	-13.00	-23.71
148.21	S	-42.15	-42.85	2.16	-1.46	-13.00	-29.15
209.75	S	-39.37	-43.78	6.14	-1.74	-13.00	-26.37
352.25	S	-52.98	-56.24	5.58	-2.31	-13.00	-39.98
434.84	S	-53.86	-57.15	5.64	-2.35	-13.00	-40.86
3464.11	H	-44.84	-46.70	8.49	-6.63	-13.00	-31.84
5222.04	H	-25.45	-28.26	10.13	-7.32	-13.00	-12.45
6949.92	H	-39.82	-41.65	11.15	-9.32	-13.00	-26.82
8707.85	H	-35.39	-37.63	12.94	-10.70	-13.00	-22.39

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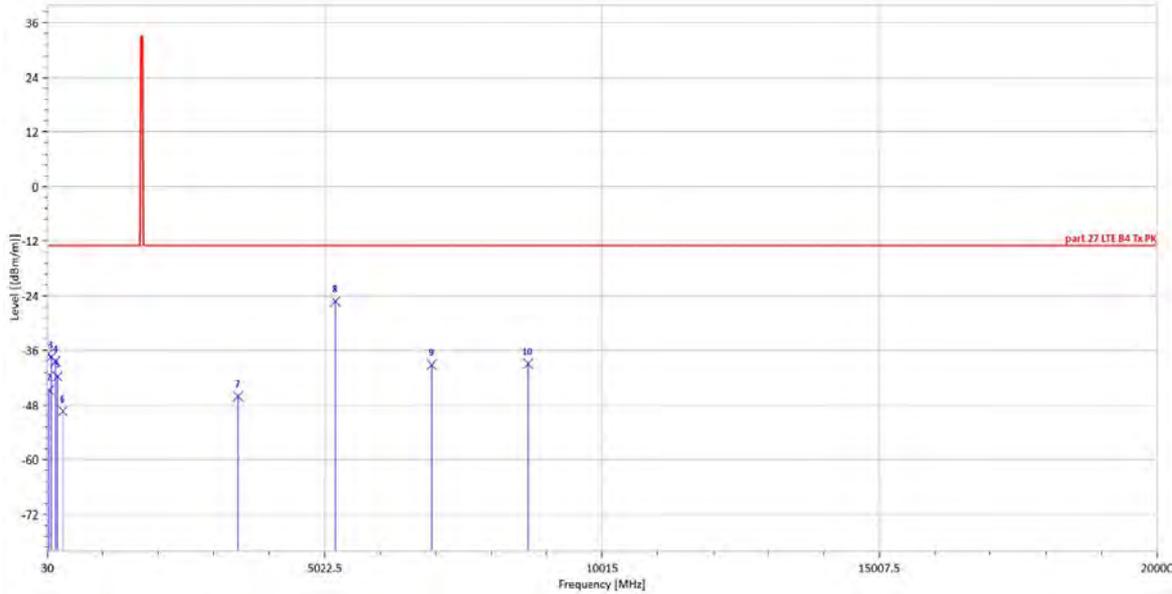
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ARFCN	:CH 20300 QPSK BW	Test Date	:2015-08-12
	20 RB 1 0		
Operation Band	:LTE B4	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:1745.0 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
33.24	S	-36.87	-18.63	-17.54	-0.70	-13.00	-23.87
60.77	S	-44.69	-42.80	-0.93	-0.95	-13.00	-31.69
101.25	S	-37.43	-35.00	-1.22	-1.20	-13.00	-24.43
174.12	S	-38.32	-41.91	5.17	-1.59	-13.00	-25.32
209.75	S	-41.72	-46.13	6.14	-1.74	-13.00	-28.72
313.39	S	-49.33	-52.85	5.63	-2.11	-13.00	-36.33
3464.11	H	-46.13	-47.99	8.49	-6.63	-13.00	-33.13
5222.04	H	-25.25	-28.06	10.13	-7.32	-13.00	-12.25
6949.92	H	-39.12	-40.95	11.15	-9.32	-13.00	-26.12
8692.82	H	-38.90	-41.07	12.94	-10.77	-13.00	-25.90

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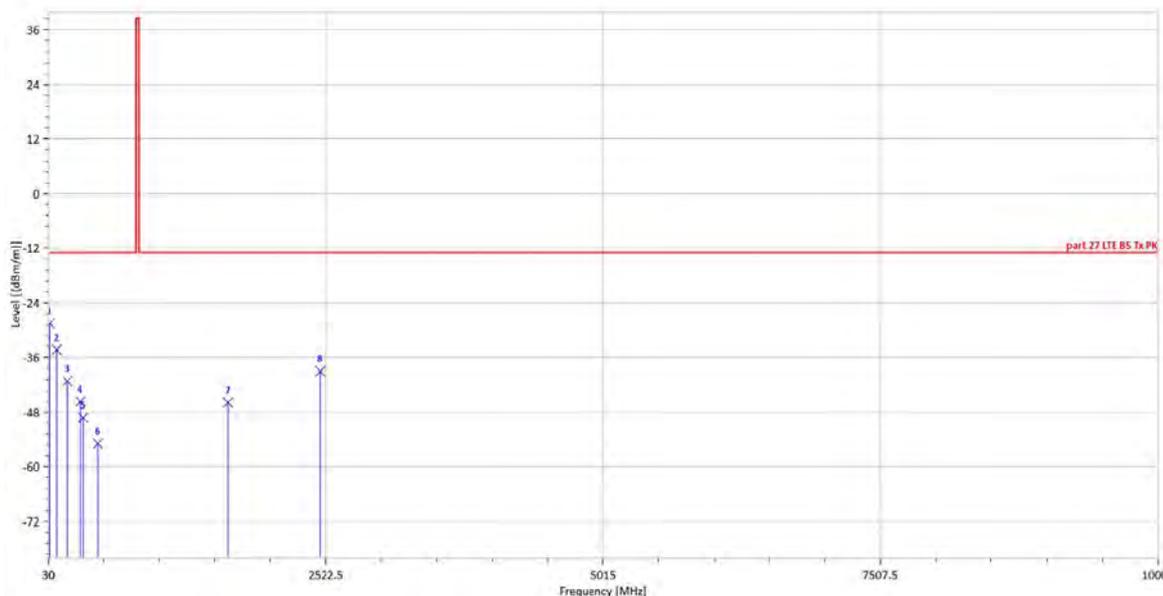
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**Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 5(The Worst Case)**

ARFCN	:CH 20407 16QAM	Test Date	:2015-08-12
	BW 1.4 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:824.7 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
41.34	S	-28.52	-14.66	-13.08	-0.78	-13.00	-15.52
104.49	S	-34.30	-29.60	-3.46	-1.24	-13.00	-21.30
204.89	S	-41.21	-43.35	3.89	-1.74	-13.00	-28.21
321.49	S	-45.67	-47.07	3.47	-2.08	-13.00	-32.67
345.78	S	-49.25	-50.47	3.45	-2.22	-13.00	-36.25
476.94	S	-54.92	-56.13	3.85	-2.64	-13.00	-41.92
1646.08	H	-45.93	-44.53	3.70	-5.10	-13.00	-32.93
2472.45	H	-39.05	-36.83	3.61	-5.82	-13.00	-26.05

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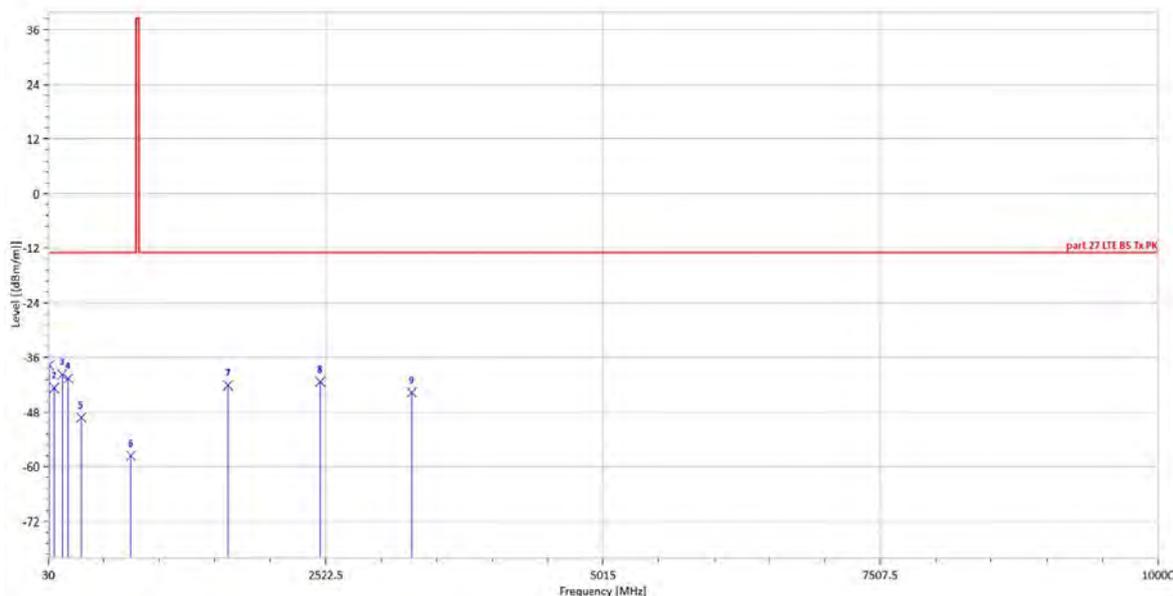
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ARFCN	:CH 20407 16QAM	Test Date	:2015-08-12
	BW 1.4 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:824.7 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
36.48	S	-37.71	-20.05	-16.96	-0.69	-13.00	-24.71
81.82	S	-42.69	-39.81	-1.79	-1.09	-13.00	-29.69
154.69	S	-39.71	-39.02	0.78	-1.47	-13.00	-26.71
212.99	S	-40.59	-42.81	4.00	-1.78	-13.00	-27.59
329.58	S	-49.20	-50.57	3.46	-2.09	-13.00	-36.20
774.91	S	-57.58	-59.28	5.19	-3.49	-13.00	-44.58
1646.08	H	-42.14	-40.74	3.70	-5.10	-13.00	-29.14
2472.45	H	-41.34	-39.12	3.61	-5.82	-13.00	-28.34
3298.83	H	-43.67	-42.99	5.81	-6.48	-13.00	-30.67

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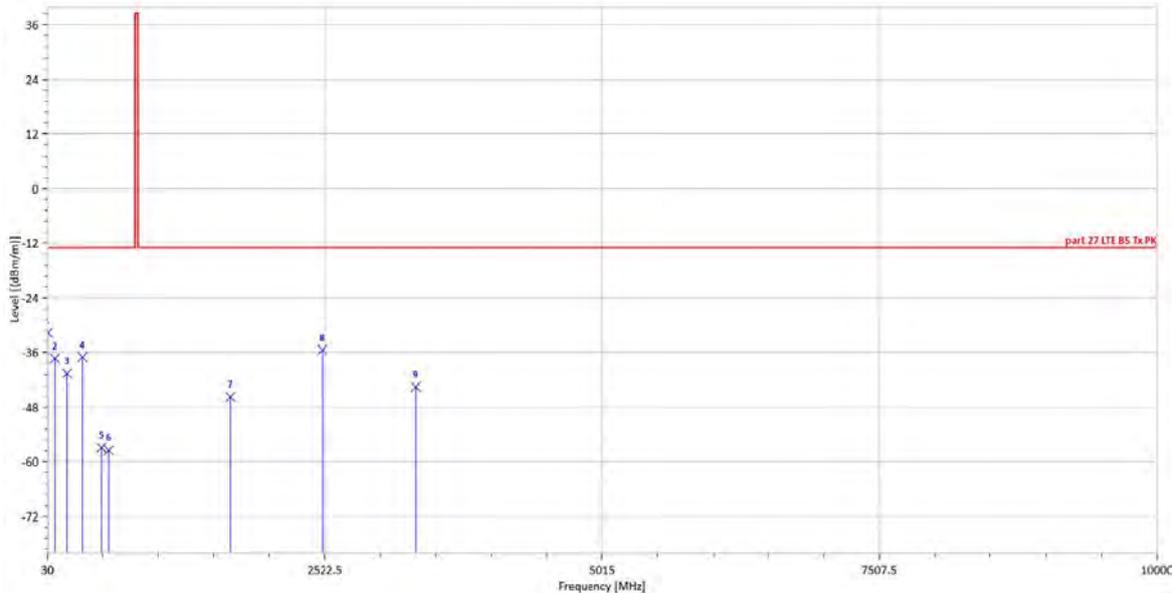
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ARFCN	:CH 20525 16QAM	Test Date	:2015-08-12
	BW 1.4 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:836.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
34.86	S	-31.60	-12.60	-18.28	-0.72	-13.00	-18.60
96.39	S	-37.31	-33.19	-2.95	-1.17	-13.00	-24.31
211.37	S	-40.61	-42.84	4.00	-1.77	-13.00	-27.61
349.02	S	-37.04	-38.30	3.44	-2.18	-13.00	-24.04
517.43	S	-56.87	-57.89	4.02	-3.00	-13.00	-43.87
582.20	S	-57.46	-58.74	4.20	-2.91	-13.00	-44.46
1676.13	H	-45.79	-44.29	3.63	-5.12	-13.00	-32.79
2502.50	H	-35.42	-33.23	3.66	-5.85	-13.00	-22.42
3343.91	H	-43.53	-43.00	5.95	-6.48	-13.00	-30.53

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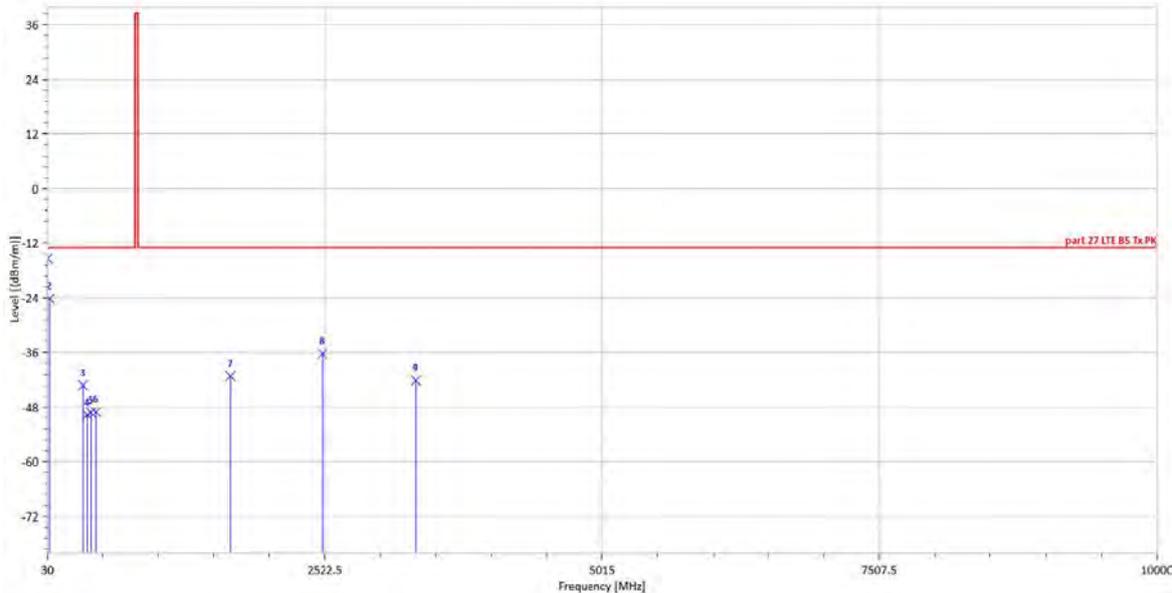
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ARFCN	:CH 20525 16QAM	Test Date	:2015-08-12
	BW 1.4 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:836.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-15.35	6.43	-21.09	-0.69	-13.00	-2.35
49.43	S	-24.18	-15.81	-7.51	-0.86	-13.00	-11.18
353.87	S	-43.22	-44.31	3.42	-2.32	-13.00	-30.22
391.12	S	-49.68	-50.59	3.24	-2.34	-13.00	-36.68
425.13	S	-49.22	-50.16	3.41	-2.47	-13.00	-36.22
468.85	S	-49.04	-50.09	3.78	-2.72	-13.00	-36.04
1676.13	H	-41.20	-39.71	3.63	-5.12	-13.00	-28.20
2502.50	H	-36.28	-34.08	3.66	-5.85	-13.00	-23.28
3343.91	H	-42.16	-41.64	5.95	-6.48	-13.00	-29.16

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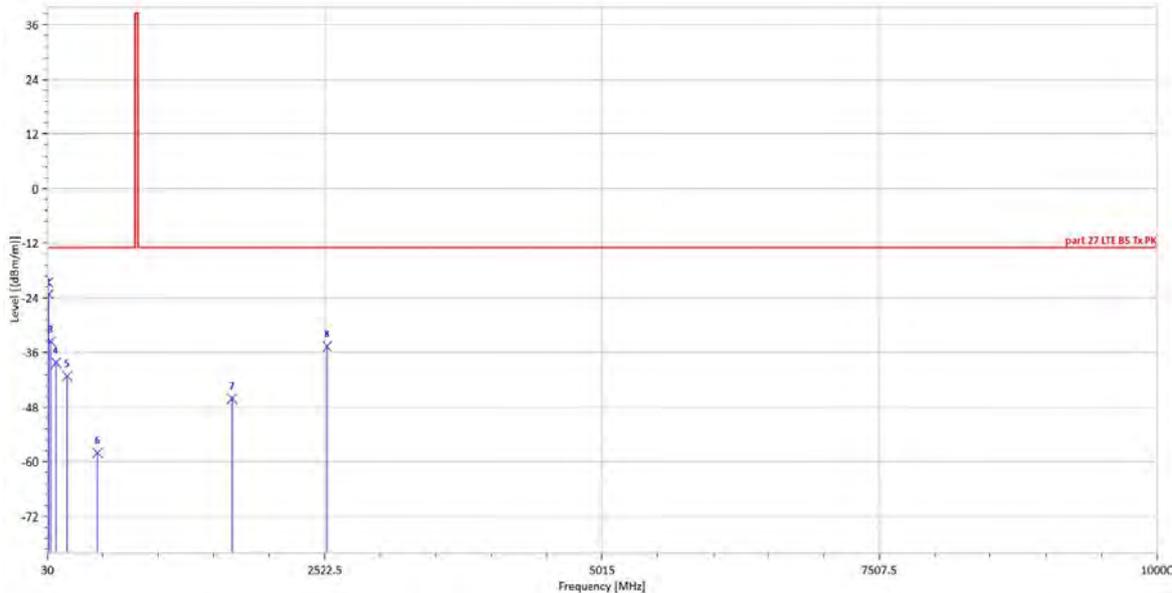
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ARFCN	:CH 20643 16QAM	Test Date	:2015-08-12
	BW 1.4 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:848.3 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
36.48	S	-20.63	-2.97	-16.96	-0.69	-13.00	-7.63
41.34	S	-23.18	-9.32	-13.08	-0.78	-13.00	-10.18
59.15	S	-33.59	-29.12	-3.52	-0.95	-13.00	-20.59
107.73	S	-38.26	-33.47	-3.55	-1.25	-13.00	-25.26
212.99	S	-41.19	-43.41	4.00	-1.78	-13.00	-28.19
481.80	S	-58.08	-59.38	3.89	-2.58	-13.00	-45.08
1691.15	H	-46.15	-44.60	3.59	-5.15	-13.00	-33.15
2547.58	H	-34.66	-32.57	3.76	-5.85	-13.00	-21.66
36.48	S	-20.63	-2.97	-16.96	-0.69	-13.00	-7.63

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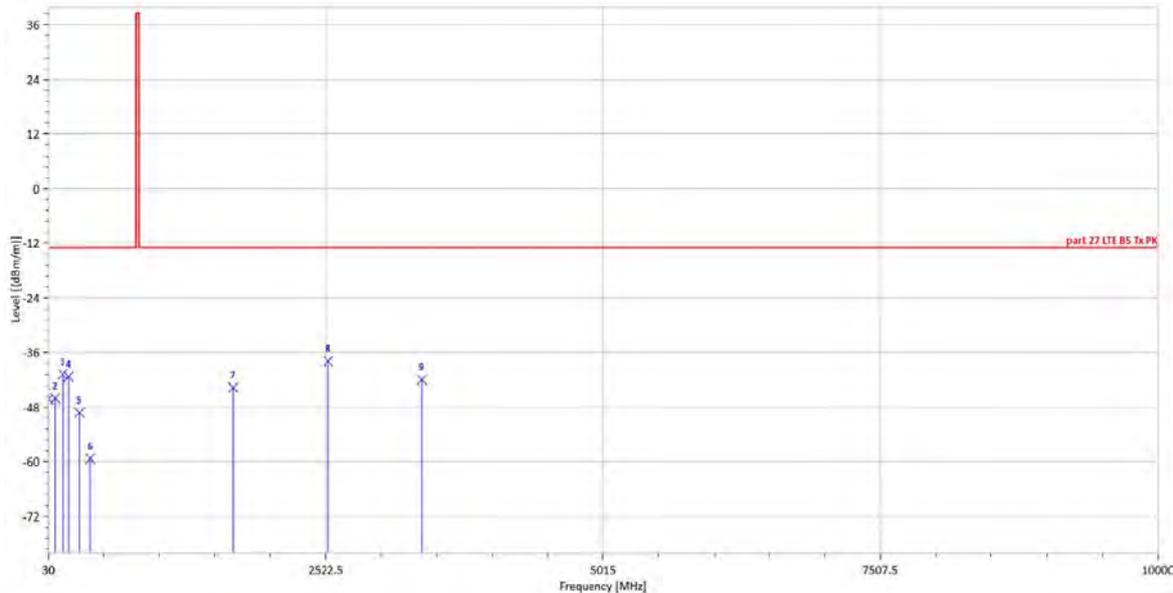
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ARFCN	:CH 20643 16QAM	Test Date	:2015-08-12
	BW 1.4 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:848.3 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-46.26	-24.48	-21.09	-0.69	-13.00	-33.26
91.54	S	-46.10	-42.52	-2.43	-1.15	-13.00	-33.10
161.17	S	-40.81	-40.62	1.48	-1.67	-13.00	-27.81
216.23	S	-41.31	-43.53	4.01	-1.79	-13.00	-28.31
313.39	S	-49.22	-50.59	3.48	-2.11	-13.00	-36.22
408.93	S	-59.33	-60.32	3.28	-2.29	-13.00	-46.33
1691.15	H	-43.72	-42.16	3.59	-5.15	-13.00	-30.72
2547.58	H	-37.93	-35.84	3.76	-5.85	-13.00	-24.93
3388.98	H	-41.98	-41.46	6.09	-6.61	-13.00	-28.98

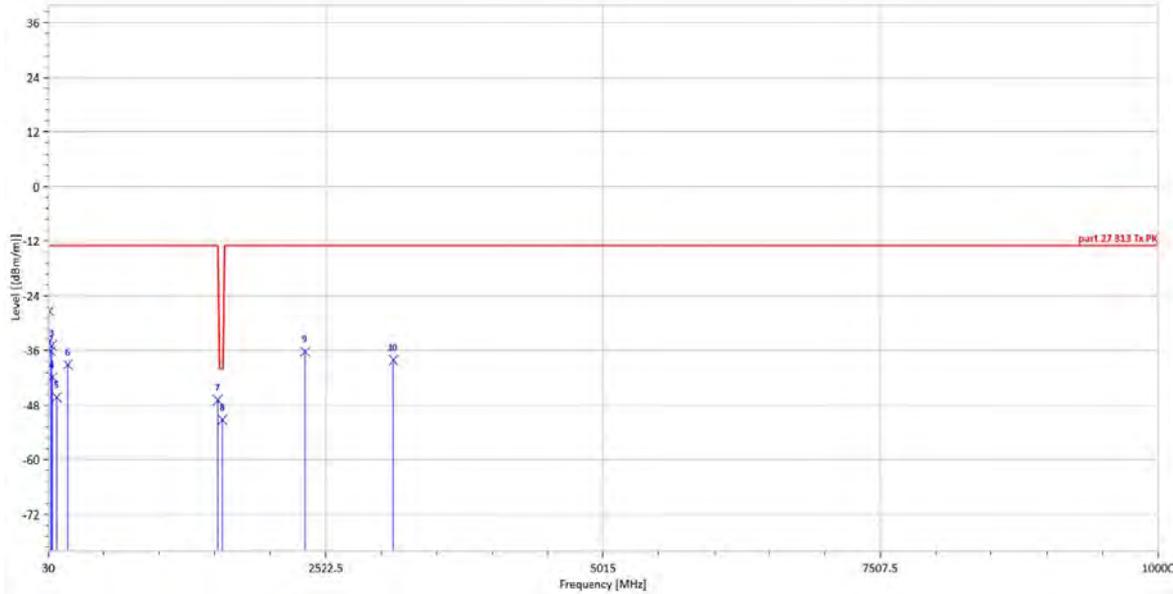
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13(The Worst Case)**

ARFCN	:CH 23205 16QAM BW	Test Date	:2015-08-12
	5 RB1 24		
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:779.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



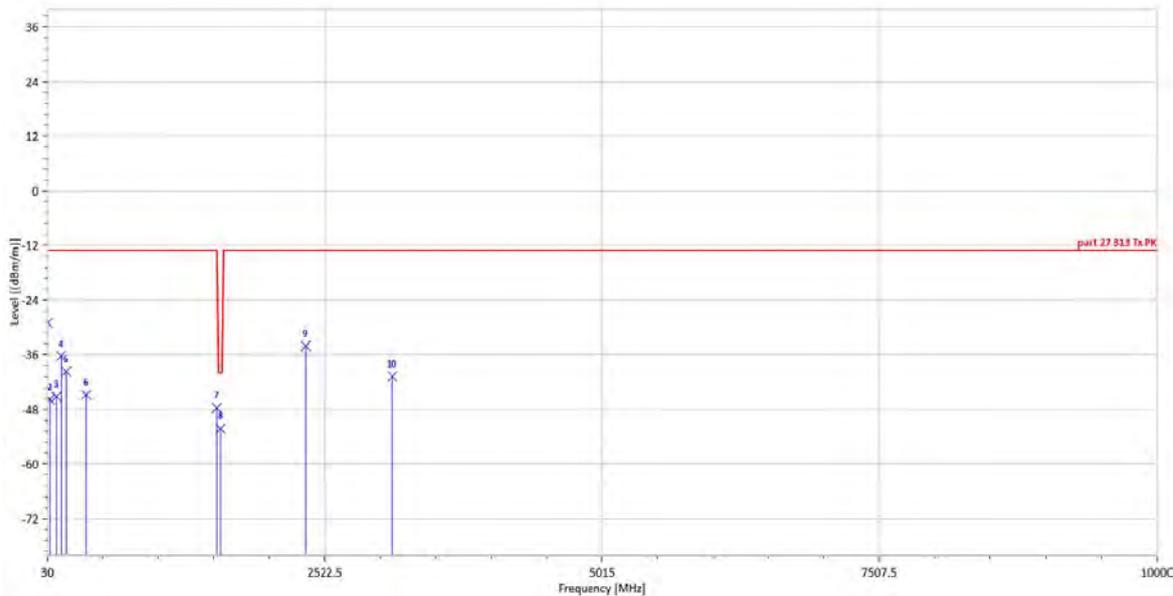
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
34.86	S	-27.31	-8.31	-18.28	-0.72	-13.00	-14.31
52.67	S	-36.14	-29.18	-6.10	-0.86	-13.00	-23.14
59.15	S	-34.91	-30.44	-3.52	-0.95	-13.00	-21.91
65.63	S	-41.94	-38.46	-2.48	-0.99	-13.00	-28.94
104.49	S	-46.31	-41.61	-3.46	-1.24	-13.00	-33.31
209.75	S	-39.08	-41.34	3.99	-1.74	-13.00	-26.08
1555.93	H	-46.89	-45.89	3.92	-4.91	-13.00	-33.89
1596.20	S	-51.20	-51.20	3.82	-4.96	-40.00	-11.20
2337.23	H	-36.26	-33.94	3.39	-5.71	-13.00	-23.26
3133.56	H	-38.14	-37.04	5.28	-6.38	-13.00	-25.14

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ARFCN	:CH 23205 16QAM	Test Date	:2015-08-12
	BW 5 RB1 24		
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:779.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



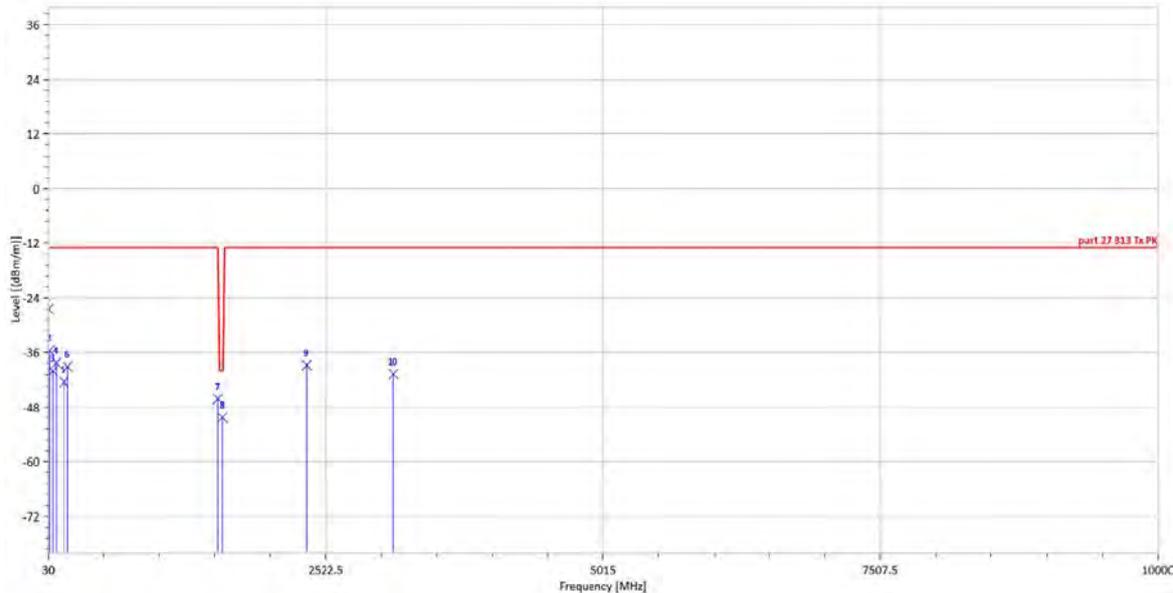
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
33.24	S	-28.99	-8.60	-19.69	-0.70	-13.00	-15.99
52.67	S	-45.78	-38.82	-6.10	-0.86	-13.00	-32.78
110.97	S	-45.21	-40.36	-3.58	-1.28	-13.00	-32.21
154.69	S	-36.31	-35.61	0.78	-1.47	-13.00	-23.31
204.89	S	-39.67	-41.82	3.89	-1.74	-13.00	-26.67
381.40	S	-44.81	-45.75	3.29	-2.35	-13.00	-31.81
1555.93	H	-47.66	-46.66	3.92	-4.91	-13.00	-34.66
1588.95	S	-52.24	-52.24	3.84	-4.96	-40.00	-12.24
2352.25	H	-34.07	-31.79	3.41	-5.69	-13.00	-21.07
3133.56	H	-40.81	-39.72	5.28	-6.38	-13.00	-27.81

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ARFCN	:CH 23230 16QAM BW 5 RB1 24	Test Date	:2015-08-12
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-26.45	-4.67	-21.09	-0.69	-13.00	-13.45
39.72	S	-35.55	-20.43	-14.33	-0.79	-13.00	-22.55
70.48	S	-40.03	-37.11	-1.93	-0.99	-13.00	-27.03
101.25	S	-38.28	-33.70	-3.37	-1.20	-13.00	-25.28
172.50	S	-42.52	-43.82	2.85	-1.54	-13.00	-29.52
206.51	S	-39.10	-41.29	3.92	-1.73	-13.00	-26.10
1555.93	H	-46.20	-45.20	3.92	-4.91	-13.00	-33.20
1596.20	S	-50.30	-50.30	3.82	-4.96	-40.00	-10.30
2352.25	H	-38.81	-36.53	3.41	-5.69	-13.00	-25.81
3133.56	H	-40.73	-39.63	5.28	-6.38	-13.00	-27.73

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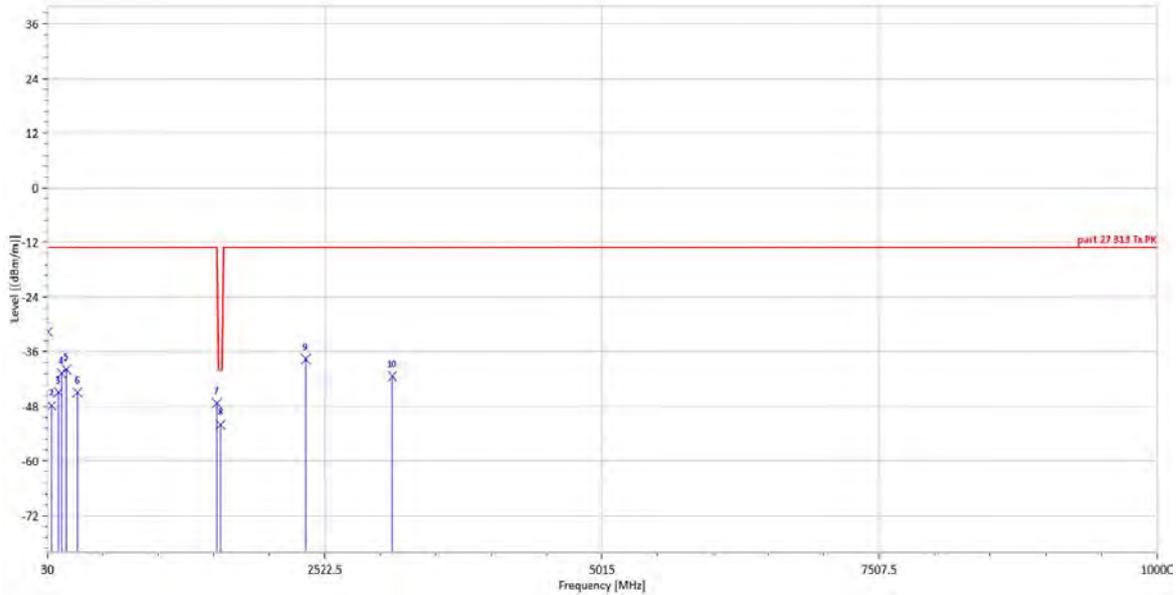
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ARFCN	:CH 23230 16QAM	Test Date	:2015-08-12
	BW 5 RB1 24		
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
33.24	S	-31.60	-11.21	-19.69	-0.70	-13.00	-18.60
67.25	S	-47.82	-44.52	-2.28	-1.02	-13.00	-34.82
128.78	S	-44.94	-41.08	-2.56	-1.31	-13.00	-31.94
157.93	S	-40.76	-40.41	1.12	-1.47	-13.00	-27.76
204.89	S	-39.89	-42.04	3.89	-1.74	-13.00	-26.89
305.29	S	-44.99	-46.38	3.49	-2.11	-13.00	-31.99
1555.93	H	-47.26	-46.26	3.92	-4.91	-13.00	-34.26
1588.95	S	-52.05	-52.05	3.84	-4.96	-40.00	-12.05
2352.25	H	-37.60	-35.33	3.41	-5.69	-13.00	-24.60
3133.56	H	-41.37	-40.27	5.28	-6.38	-13.00	-28.37

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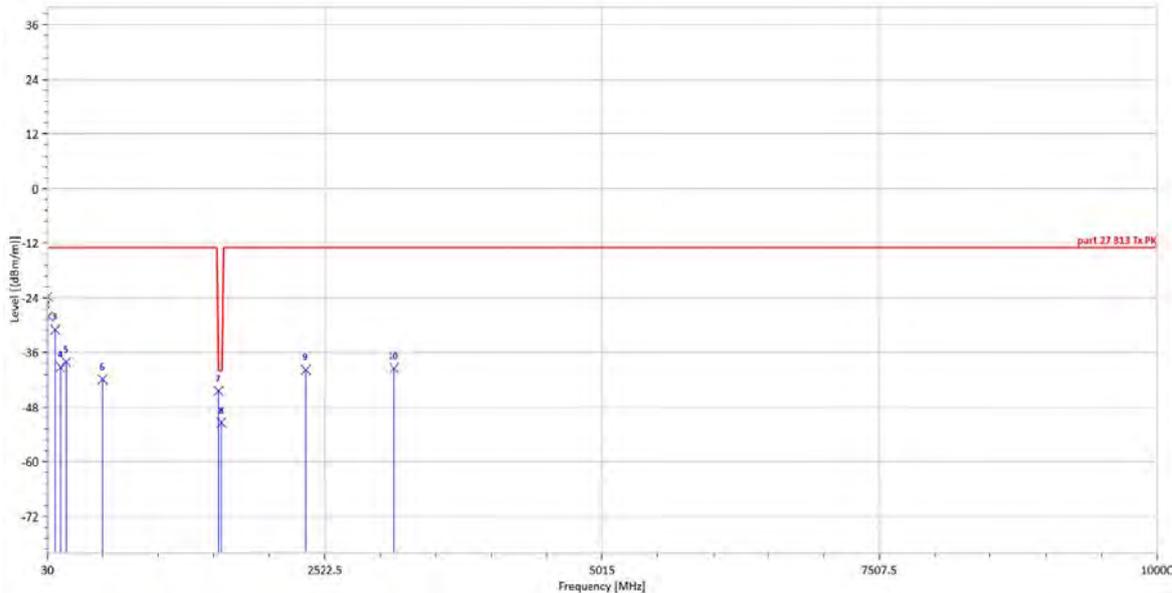
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ARFCN	:CH 23255 16QAM BW 5 RB1 24	Test Date	:2015-08-12
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:784.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



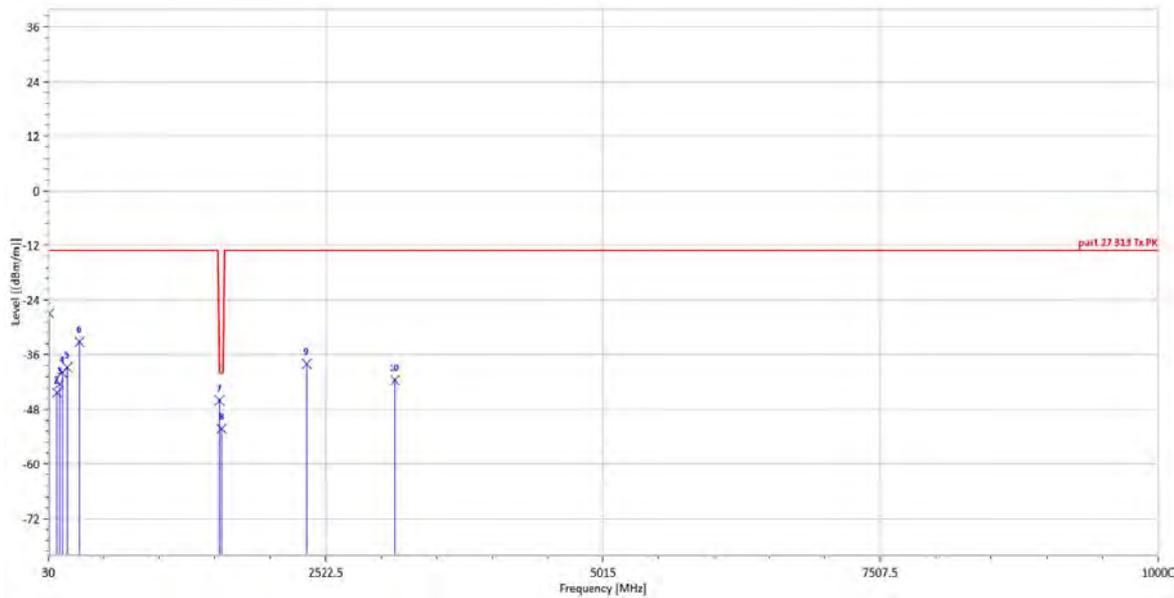
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-23.72	-1.94	-21.09	-0.69	-13.00	-10.72
34.86	S	-28.06	-9.06	-18.28	-0.72	-13.00	-15.06
99.63	S	-30.99	-26.49	-3.30	-1.20	-13.00	-17.99
148.21	S	-39.19	-37.73	0.01	-1.46	-13.00	-26.19
204.89	S	-38.13	-40.27	3.89	-1.74	-13.00	-25.13
527.15	S	-41.93	-42.97	4.00	-2.96	-13.00	-28.93
1570.95	H	-44.39	-43.33	3.88	-4.94	-40.00	-4.39
1596.20	S	-51.38	-51.38	3.82	-4.96	-40.00	-11.38
2352.25	H	-39.78	-37.50	3.41	-5.69	-13.00	-26.78
3148.58	H	-39.44	-38.34	5.33	-6.42	-13.00	-26.44

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ARFCN	:CH 23255 16QAM	Test Date	:2015-08-12
	BW 5 RB1 24		
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:784.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
36.48	S	-26.90	-9.25	-16.96	-0.69	-13.00	-13.90
106.11	S	-44.32	-39.58	-3.50	-1.23	-13.00	-31.32
130.40	S	-42.34	-38.63	-2.41	-1.31	-13.00	-29.34
156.31	S	-39.85	-39.34	0.95	-1.47	-13.00	-26.85
204.89	S	-38.74	-40.88	3.89	-1.74	-13.00	-25.74
313.39	S	-33.14	-34.51	3.48	-2.11	-13.00	-20.14
1570.95	H	-46.06	-45.00	3.88	-4.94	-40.00	-6.06
1588.95	S	-52.25	-52.25	3.84	-4.96	-40.00	-12.25
2352.25	H	-38.04	-35.76	3.41	-5.69	-13.00	-25.04
3148.58	H	-41.58	-40.48	5.33	-6.42	-13.00	-28.58

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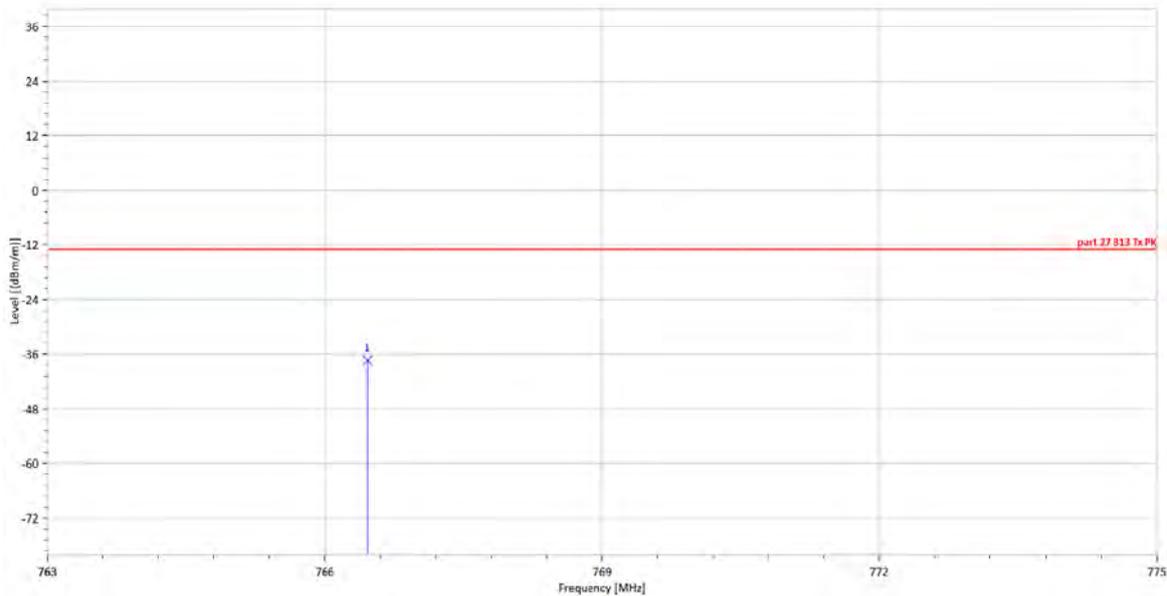
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**Radiated Spurious Emission Measurement Result: 763MHz -775MHz  
 5MHz BW LTE-Band 13(The Worst Case)**

ARFCN	:CH 23205 16QAM BW 5 RB1 24	Test Date	:2015-08-12
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:779.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
766.47	S	-37.36	-39.12	5.18	-3.42	-13.00	-24.36

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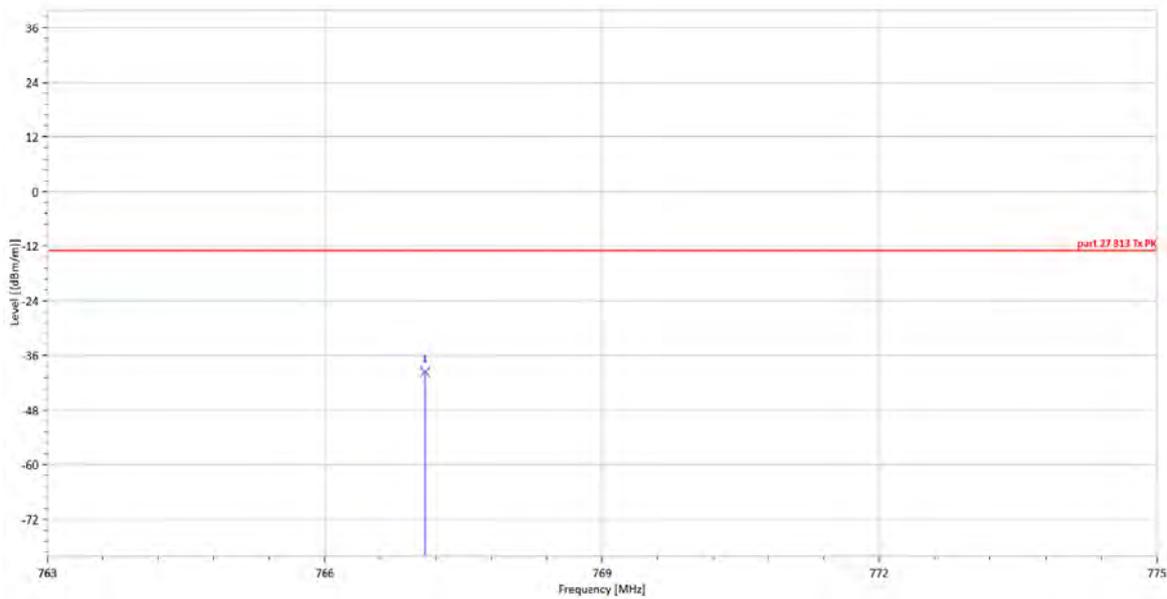
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ARFCN	:CH 23205 16QAM BW 5 RB1 24	Test Date	:2015-08-12
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:779.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
767.09	S	-39.58	-41.46	5.18	-3.31	-13.00	-26.58

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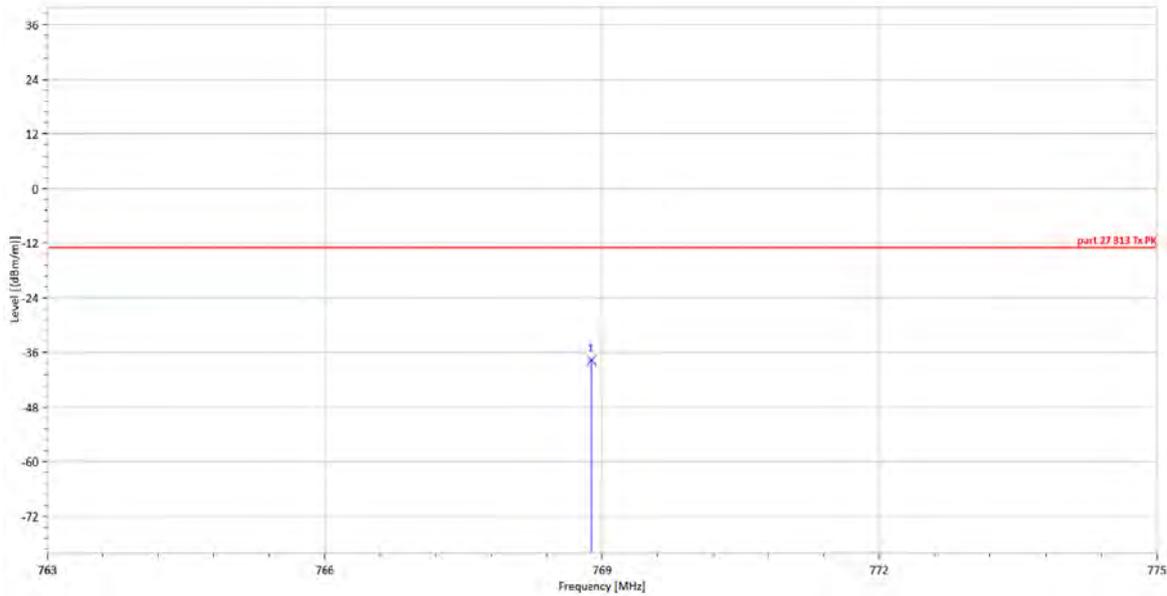
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ARFCN	:CH 23230 16QAM BW 5 RB1 24	Test Date	:2015-08-12
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
768.89	S	-37.74	-39.75	5.18	-3.17	-13.00	-24.74

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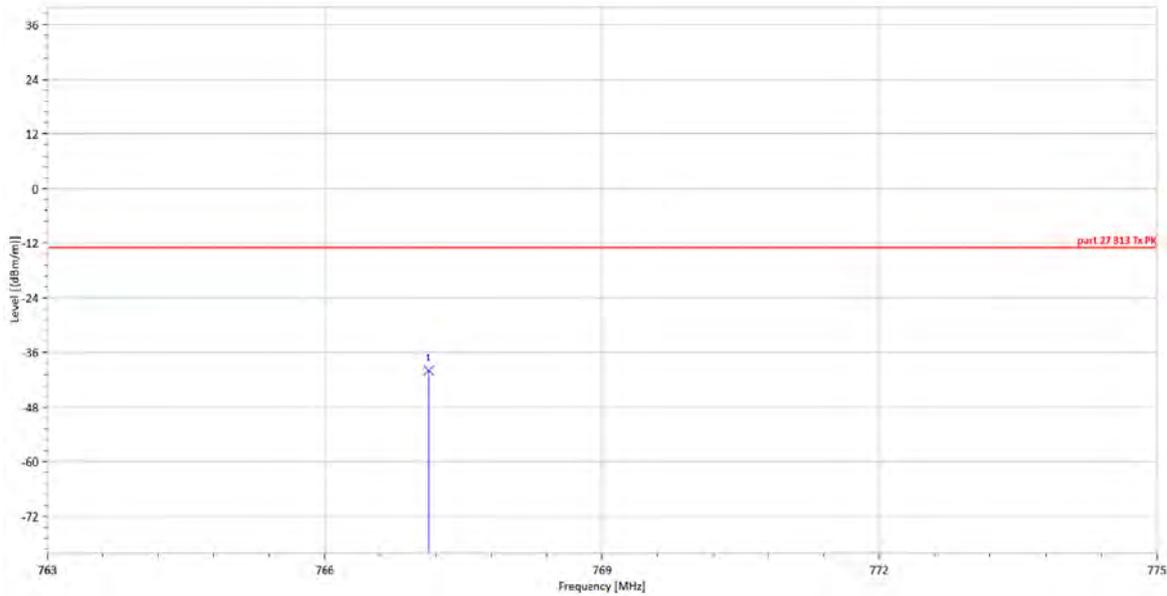
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ARFCN	:CH 23230 16QAM BW 5 RB1 24	Test Date	:2015-08-12
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
767.13	S	-39.88	-41.76	5.18	-3.30	-13.00	-26.88

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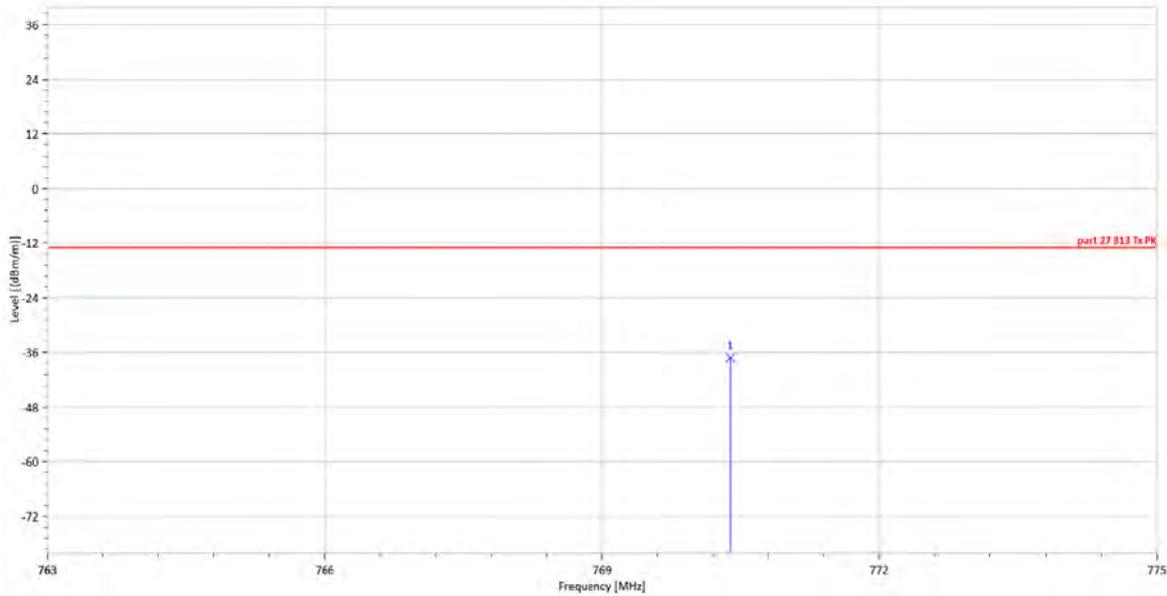
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ARFCN	:CH 23255 16QAM	Test Date	:2015-08-12
	BW 5 RB1 24		
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:784.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



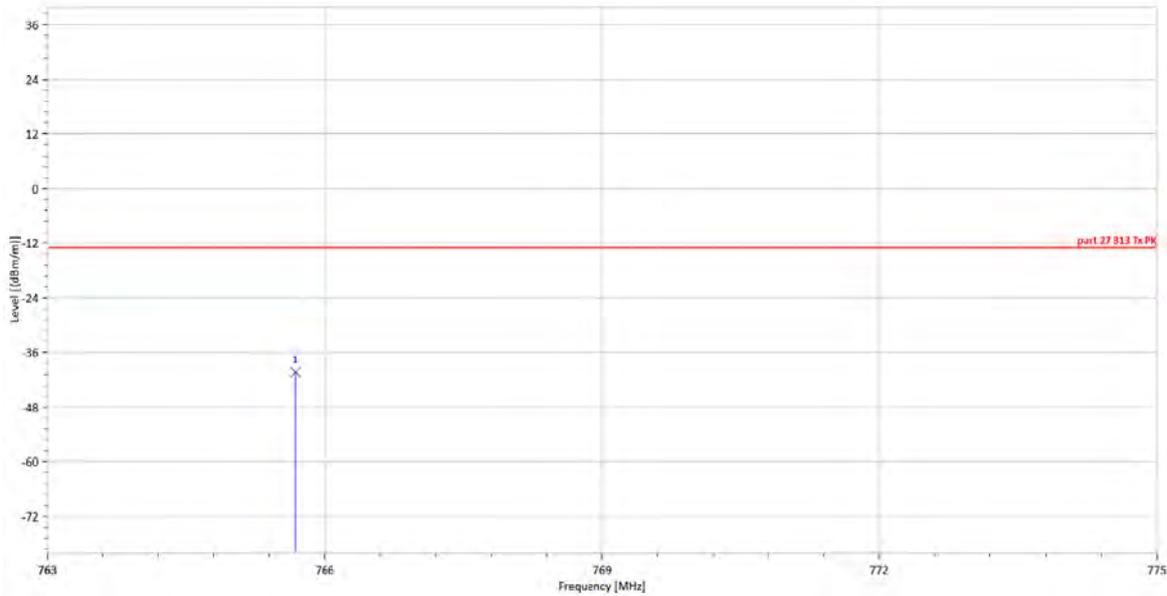
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
770.39	S	-37.18	-39.09	5.18	-3.28	-13.00	-24.18

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ARFCN	:CH 23255 16QAM BW 5 RB1 24	Test Date	:2015-08-12
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:784.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
765.68	S	-40.31	-42.00	5.18	-3.49	-13.00	-27.31

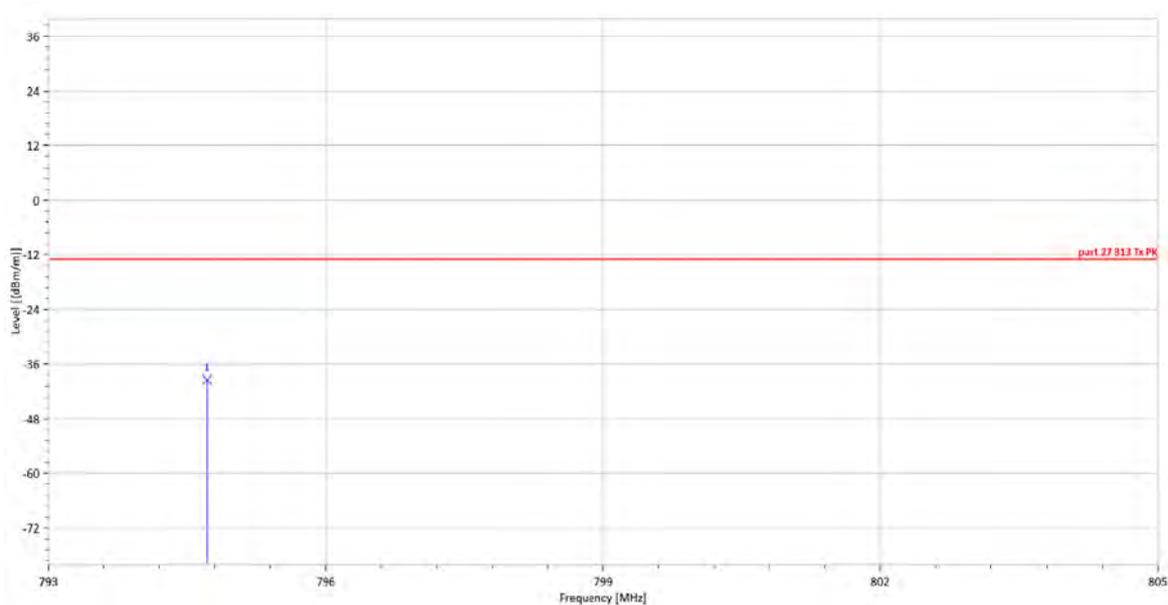
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**Radiated Spurious Emission Measurement Result: 793MHz ~ 805MHz  
 5MHz BW LTE-Band 13(The Worst Case)**

ARFCN	:CH 23205 16QAM BW 5 RB1 24	Test Date	:2015-08-12
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:779.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
794.72	S	-39.44	-41.28	5.21	-3.38	-13.00	-26.44

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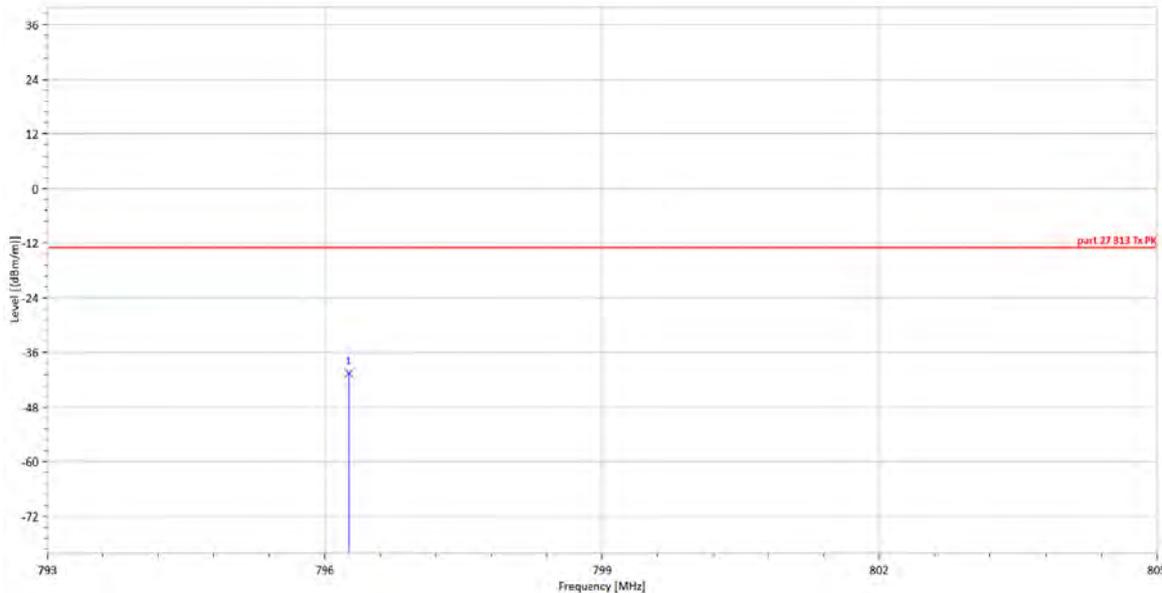
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ARFCN	:CH 23205 16QAM BW 5 RB1 24	Test Date	:2015-08-12
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:779.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

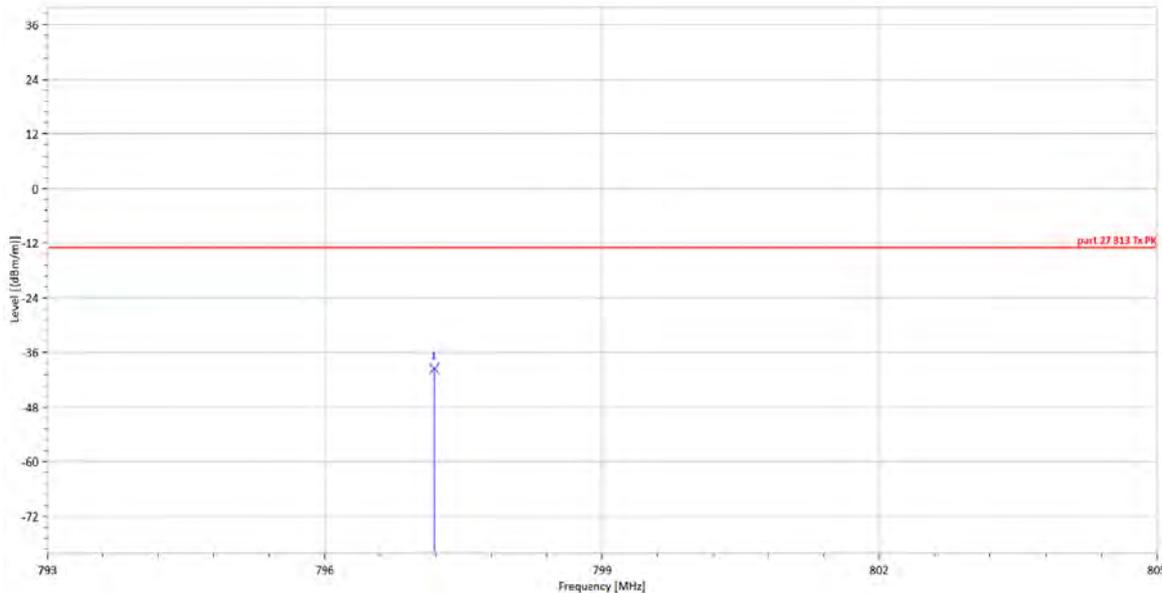


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
796.27	S	-40.54	-42.38	5.22	-3.37	-13.00	-27.54

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ARFCN	:CH 23230 16QAM BW 5 RB1 24	Test Date	:2015-08-12
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
797.19	S	-39.53	-41.40	5.22	-3.35	-13.00	-26.53

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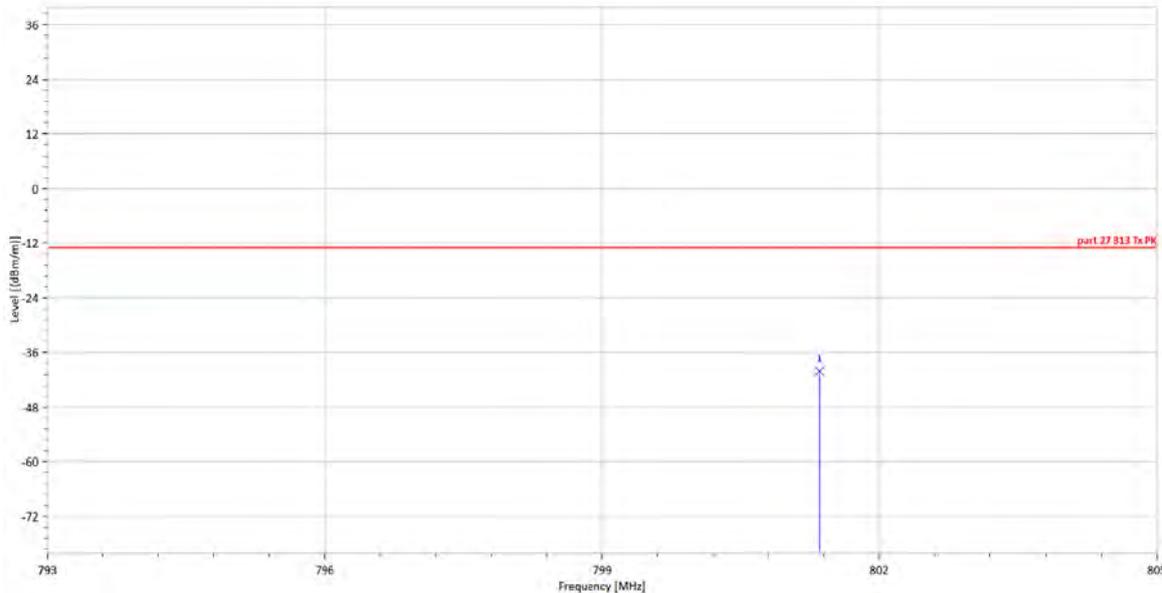
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ARFCN	:CH 23230 16QAM BW 5 RB1 24	Test Date	:2015-08-12
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



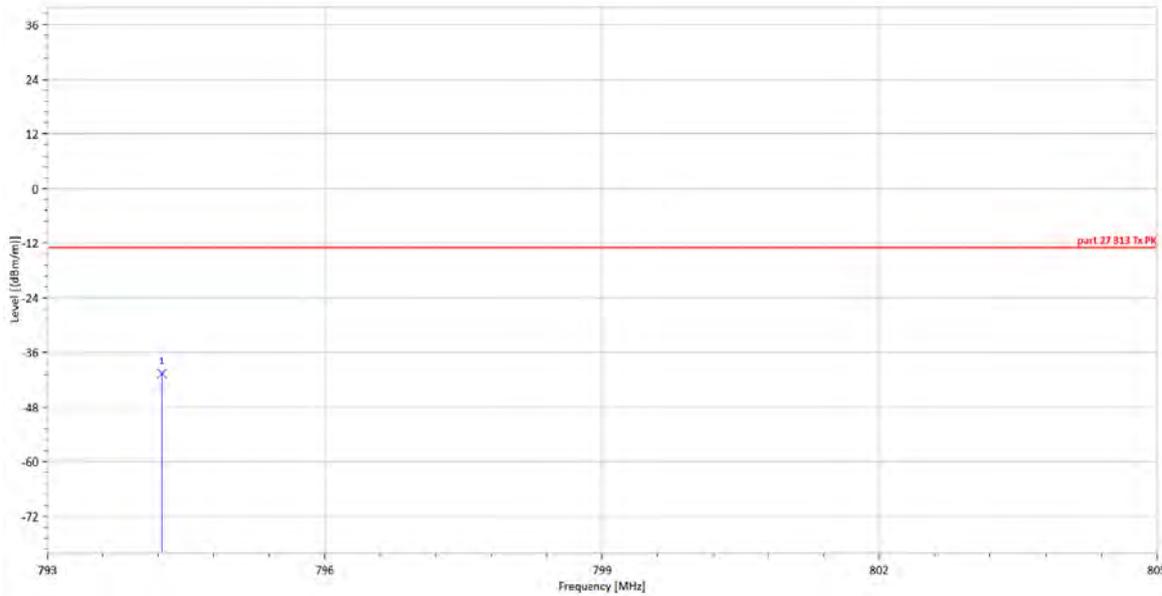
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
801.35	S	-40.10	-41.87	5.22	-3.44	-13.00	-27.10

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ARFCN	:CH 23255 16QAM	Test Date	:2015-08-12
	BW 5 RB1 24		
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:784.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
794.24	S	-40.64	-42.45	5.21	-3.40	-13.00	-27.64

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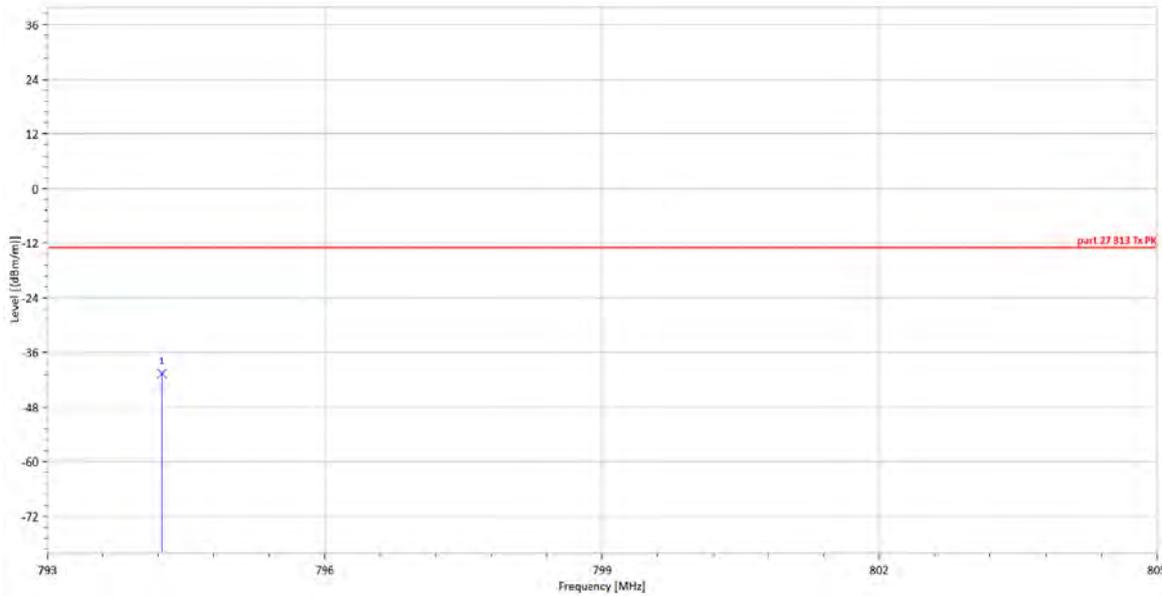
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ARFCN	:CH 23255 16QAM BW 5 RB1 24	Test Date	:2015-08-12
Operation Band	:LTE B13	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:784.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
794.24	S	-40.64	-42.45	5.21	-3.40	-13.00	-27.64

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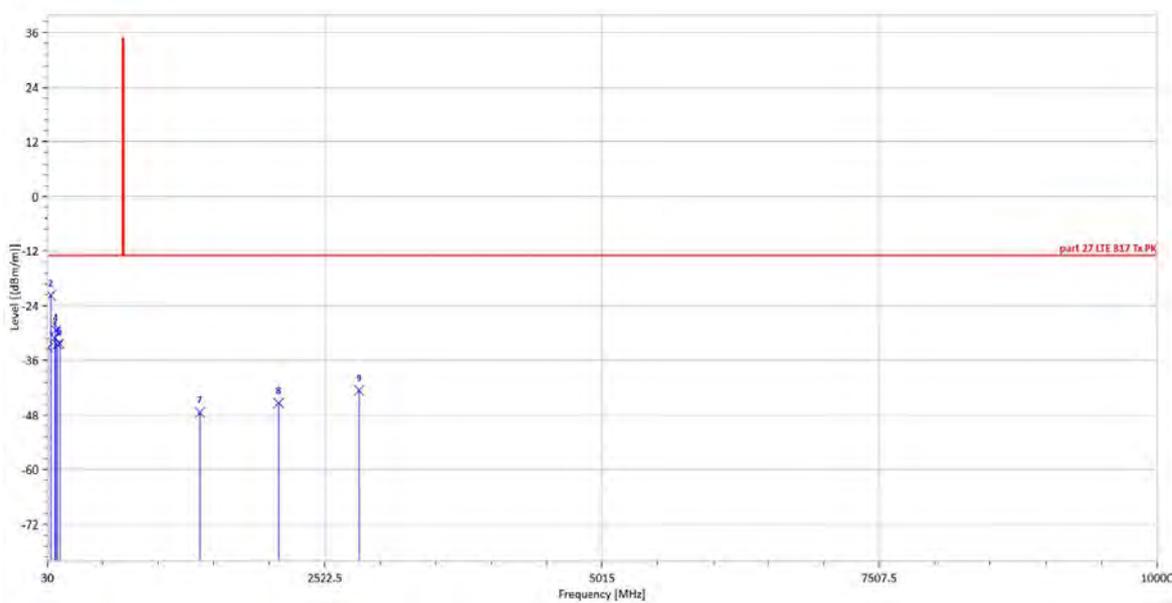
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**Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 17(The Worst Case)**

ARFCN	:CH 23755 16QAM	Test Date	:2015-08-12
	BW 5 RB1 24		
Operation Band	:LTE B17	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:706.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
34.86	S	-33.21	-14.21	-18.28	-0.72	-13.00	-20.21
60.77	S	-21.72	-17.68	-3.08	-0.95	-13.00	-8.72
94.77	S	-30.97	-27.03	-2.78	-1.16	-13.00	-17.97
106.11	S	-29.37	-24.63	-3.50	-1.23	-13.00	-16.37
119.07	S	-32.54	-27.91	-3.29	-1.33	-13.00	-19.54
141.74	S	-32.32	-29.97	-0.96	-1.40	-13.00	-19.32
1405.68	H	-47.45	-46.24	3.37	-4.57	-13.00	-34.45
2111.85	H	-45.39	-42.87	3.03	-5.54	-13.00	-32.39
2833.06	H	-42.60	-40.94	4.45	-6.11	-13.00	-29.60

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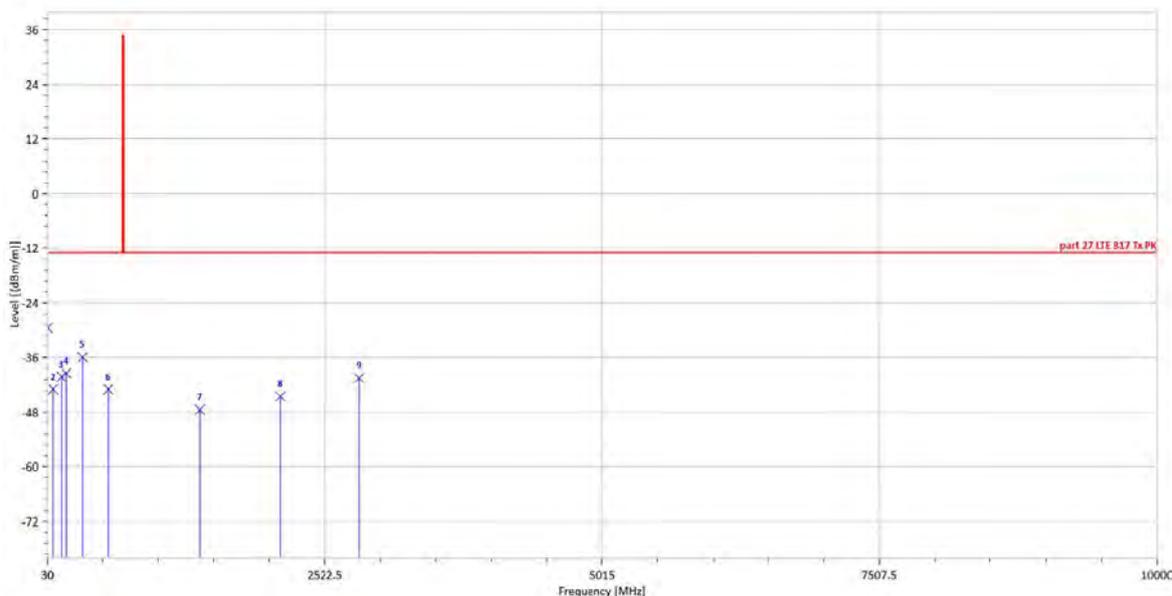
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ARFCN	:CH 23755 16QAM	Test Date	:2015-08-12
	BW 5 RB1 24		
Operation Band	:LTE B17	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:706.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
33.24	S	-29.50	-9.11	-19.69	-0.70	-13.00	-16.50
80.20	S	-42.95	-40.19	-1.69	-1.06	-13.00	-29.95
157.93	S	-40.21	-39.86	1.12	-1.47	-13.00	-27.21
204.89	S	-39.48	-41.63	3.89	-1.74	-13.00	-26.48
350.63	S	-35.90	-37.17	3.44	-2.16	-13.00	-22.90
578.96	S	-42.98	-44.38	4.17	-2.78	-13.00	-29.98
1405.68	H	-47.46	-46.26	3.37	-4.57	-13.00	-34.46
2126.88	H	-44.54	-42.04	3.05	-5.56	-13.00	-31.54
2833.06	H	-40.51	-38.86	4.45	-6.11	-13.00	-27.51

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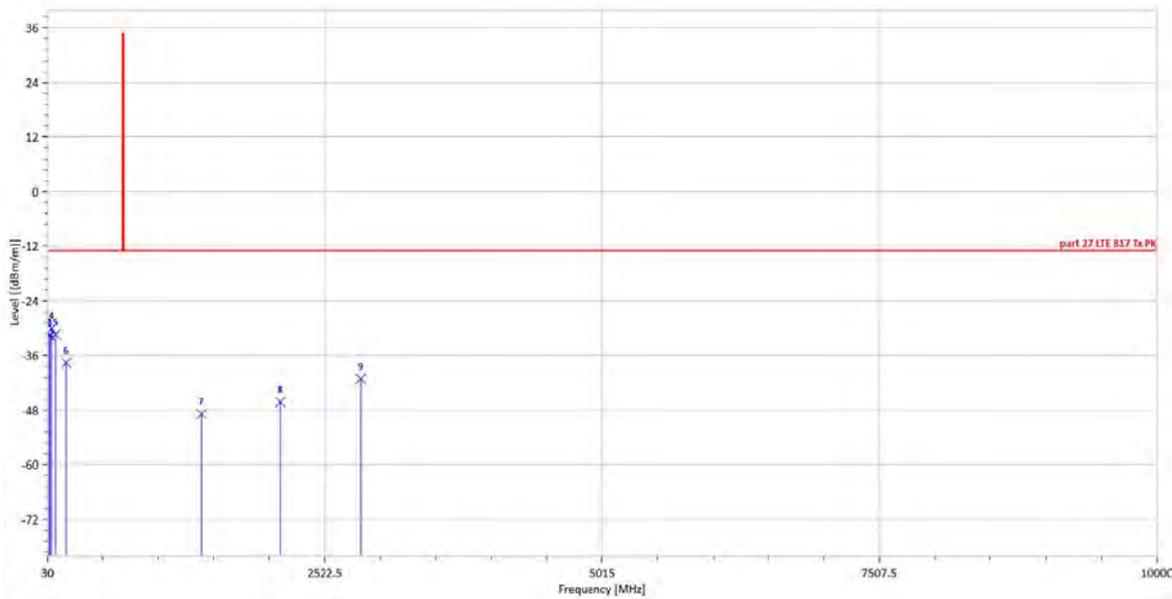
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ARFCN	:CH 23790 16QAM BW 5 RB1 24	Test Date	:2015-08-12
Operation Band	:LTE B17	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:710 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



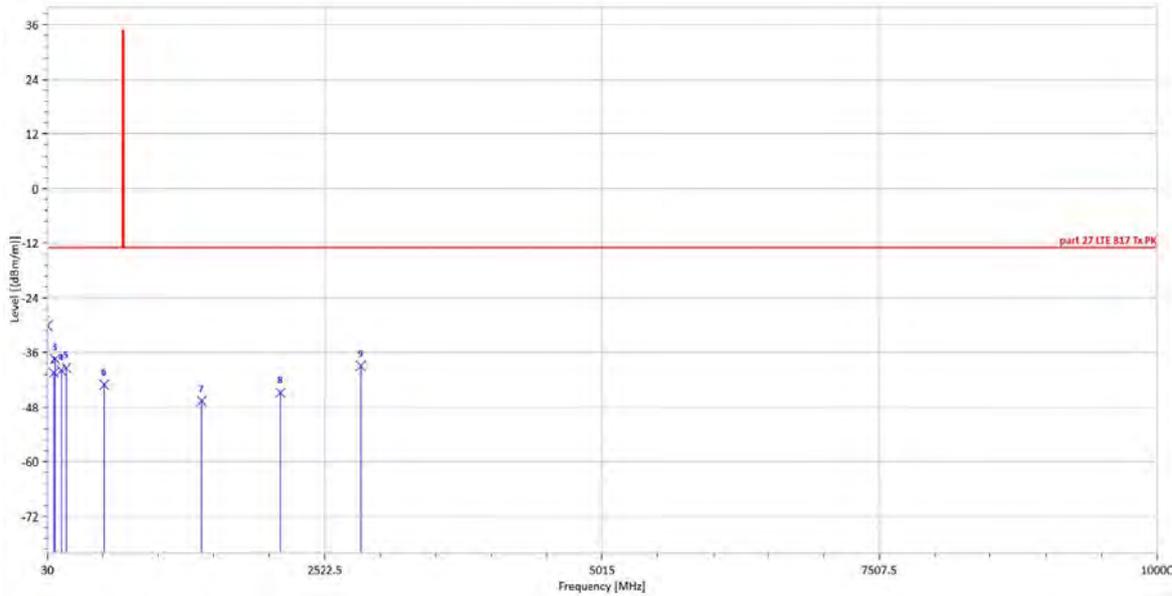
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
33.24	S	-30.87	-10.48	-19.69	-0.70	-13.00	-17.87
46.19	S	-31.53	-21.17	-9.54	-0.82	-13.00	-18.53
52.67	S	-31.57	-24.61	-6.10	-0.86	-13.00	-18.57
67.25	S	-30.08	-26.78	-2.28	-1.02	-13.00	-17.08
102.87	S	-31.37	-26.73	-3.42	-1.22	-13.00	-18.37
203.27	S	-37.63	-39.75	3.85	-1.73	-13.00	-24.63
1420.00	S	-48.84	-47.70	3.47	-4.62	-13.00	-35.84
2126.88	S	-46.21	-43.71	3.05	-5.56	-13.00	-33.21
2848.08	S	-41.13	-39.46	4.49	-6.16	-13.00	-28.13

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ARFCN	:CH 23790 16QAM	Test Date	:2015-08-12
	BW 5 RB1 24		
Operation Band	:LTE B17	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:710 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-30.12	-8.34	-21.09	-0.69	-13.00	-17.12
86.68	S	-40.44	-37.27	-2.07	-1.10	-13.00	-27.44
98.01	S	-37.44	-33.13	-3.13	-1.19	-13.00	-24.44
156.31	S	-39.85	-39.34	0.95	-1.47	-13.00	-26.85
204.89	S	-39.36	-41.50	3.89	-1.74	-13.00	-26.36
541.72	S	-43.06	-44.38	3.98	-2.66	-13.00	-30.06
1420.00	H	-46.65	-45.51	3.47	-4.62	-13.00	-33.65
2126.88	H	-44.83	-42.33	3.05	-5.56	-13.00	-31.83
2848.08	H	-38.94	-37.27	4.49	-6.16	-13.00	-25.94

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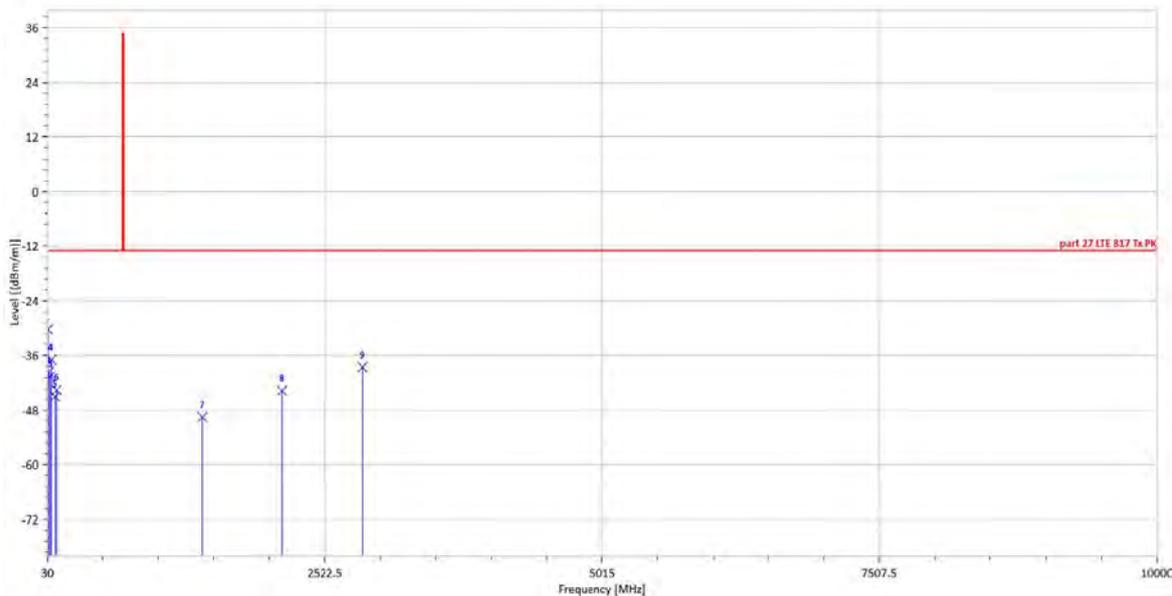
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ARFCN	:CH 23825 16QAM BW 5 RB1 24	Test Date	:2015-08-12
Operation Band	:LTE B17	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:713.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
36.48	S	-30.25	-12.59	-16.96	-0.69	-13.00	-17.25
41.34	S	-39.66	-25.80	-13.08	-0.78	-13.00	-26.66
55.91	S	-40.58	-34.84	-4.81	-0.93	-13.00	-27.58
65.63	S	-36.95	-33.47	-2.48	-0.99	-13.00	-23.95
98.01	S	-45.04	-40.72	-3.13	-1.19	-13.00	-32.04
112.59	S	-43.61	-38.82	-3.52	-1.27	-13.00	-30.61
1427.00	H	-49.55	-48.44	3.52	-4.63	-13.00	-36.55
2141.90	H	-43.74	-41.26	3.08	-5.56	-13.00	-30.74
2863.11	H	-38.56	-36.90	4.52	-6.18	-13.00	-25.56

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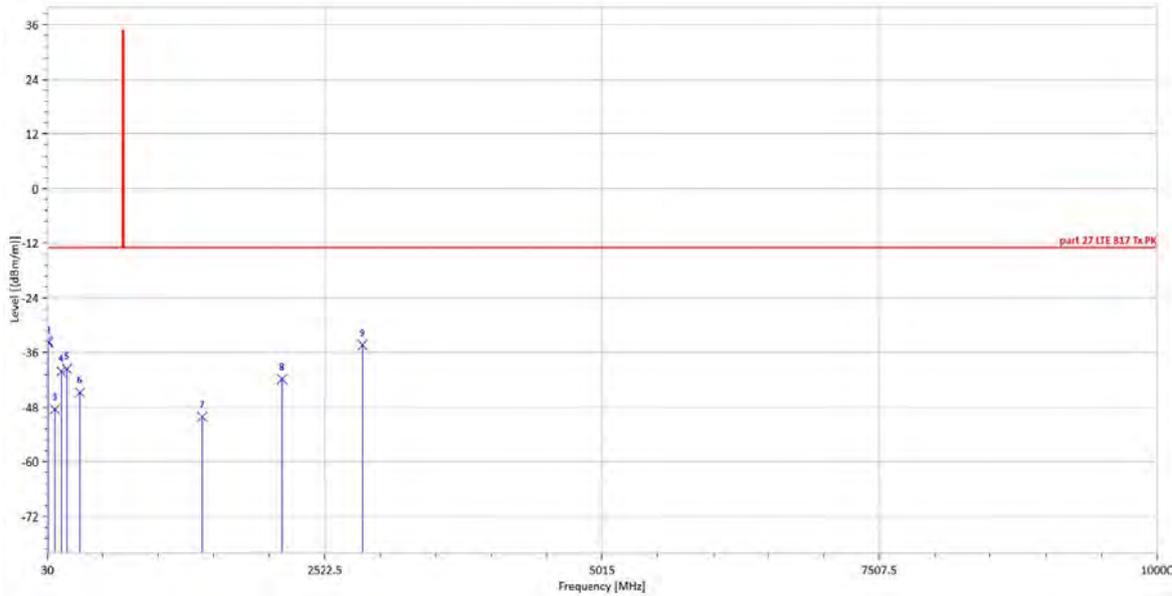
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ARFCN	:CH 23825 16QAM BW 5 RB1 24	Test Date	:2015-08-12
Operation Band	:LTE B17	Temp./Humi.	:25.5deg_C/61RH
Fundamental Frequency	:713.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-33.38	-11.60	-21.09	-0.69	-13.00	-20.38
38.10	S	-33.82	-17.44	-15.65	-0.73	-13.00	-20.82
96.39	S	-48.42	-44.30	-2.95	-1.17	-13.00	-35.42
154.69	S	-40.10	-39.41	0.78	-1.47	-13.00	-27.10
211.37	S	-39.58	-41.81	4.00	-1.77	-13.00	-26.58
326.34	S	-44.77	-45.96	3.47	-2.27	-13.00	-31.77
1427.00	H	-50.17	-49.06	3.52	-4.63	-13.00	-37.17
2141.90	H	-41.86	-39.38	3.08	-5.56	-13.00	-28.86
2863.11	H	-34.33	-32.67	4.52	-6.18	-13.00	-21.33

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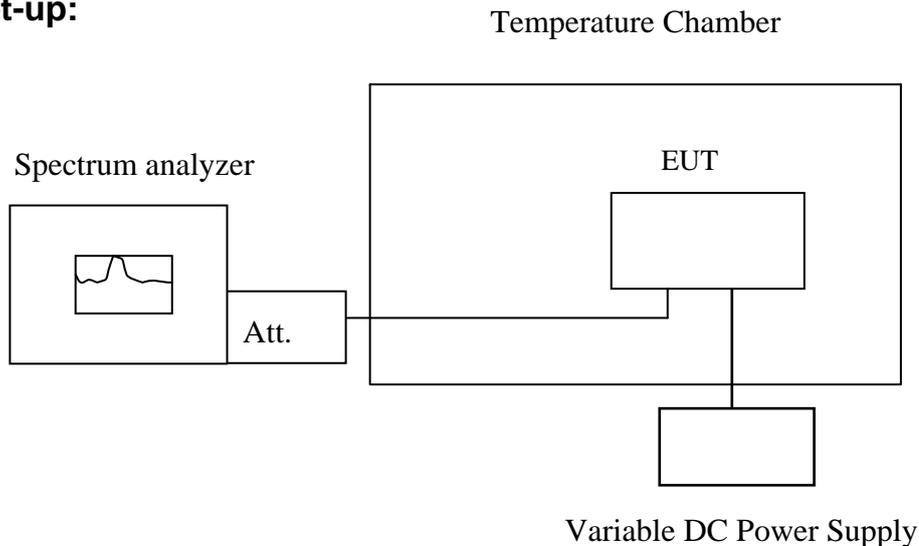
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## 11. FREQUENCY STABILITY MEASUREMENT

### 11.1. Standard Applicable:

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### 11.2. Test Set-up:



**Note:** Measurement setup for testing on Antenna connector

### 11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25 . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as de-

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clared by the manufacturer, record the maximum frequency change.

**11.4. Measurement Equipment Used:**

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/19/2014	12/18/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2015	06/17/2016
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

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**11.5. Measurement Result:**

**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.37	25	1879.999985	4.00	4700	
3.80	25	1879.999981	0.00	4700	
3.23	25	1879.999978	-3.00	4700	
3.23 (End Point)	25	1879.999978	-3.00	4700	

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	1879.999960	-13.00	4700	
3.8	-20	1879.999969	-4.00	4700	
3.8	-10	1879.999966	-7.00	4700	
3.8	0	1879.999976	3.00	4700	
3.8	10	1879.999978	5.00	4700	
3.8	20	1879.999973	0.00	4700	
3.8	30	1879.999976	3.00	4700	
3.8	40	1879.999980	7.00	4700	
3.8	50	1879.999979	6.00	4700	

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	20M QPSK CH 20175
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.37	25	1732.499985	-3.00	4331	
3.8	25	1732.499988	0.00	4331	
3.23	25	1732.499987	-1.00	4331	
3.23 (End Point)	25	1732.499987	-1.00	4331	

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	20M QPSK CH 20175
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	1732.499951	-7.00	4331	
3.8	-20	1732.499948	-10.00	4331	
3.8	-10	1732.499953	-5.00	4331	
3.8	0	1732.499956	-2.00	4331	
3.8	10	1732.499954	-4.00	4331	
3.8	20	1732.499958	0.00	4331	
3.8	30	1732.499962	4.00	4331	
3.8	40	1732.499960	2.00	4331	
3.8	50	1732.499963	5.00	4331	

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.37	25	836.499983	5.00	2091	
3.8	25	836.499978	0.00	2091	
3.23	25	836.499975	-3.00	2091	
3.23 (End Point)	25	836.499969	-9.00	2091	

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	836.499945	-12.00	2091	
3.8	-20	836.499942	-15.00	2091	
3.8	-10	836.499951	-6.00	2091	
3.8	0	836.499949	-8.00	2091	
3.8	10	836.499954	-3.00	2091	
3.8	20	836.499957	0.00	2091	
3.8	30	836.499961	4.00	2091	
3.8	40	836.499966	9.00	2091	
3.8	50	836.499970	13.00	2091	

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	10M QPSK CH 23230
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.37	25	781.999978	-7.00	1955	
3.8	25	781.999985	0.00	1955	
3.23	25	781.999982	-3.00	1955	
3.23 (End Point)	25	781.999982	-3.00	1955	

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	10M QPSK CH 23230
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	781.999952	-12.00	1955	
3.8	-20	781.999949	-15.00	1955	
3.8	-10	781.999956	-8.00	1955	
3.8	0	781.999954	-10.00	1955	
3.8	10	781.999966	2.00	1955	
3.8	20	781.999964	0.00	1955	
3.8	30	781.999969	5.00	1955	
3.8	40	781.999973	9.00	1955	
3.8	50	781.999971	7.00	1955	

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M QPSK CH 23790
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.37	25	709.999972	-6.00	1775	
3.8	25	709.999978	0.00	1775	
3.23	25	709.999984	6.00	1775	
(End Point)	25	709.999984	6.00	1775	

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M QPSK CH 23790
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	709.999939	-21.00	1775	
3.8	-20	709.999937	-23.00	1775	
3.8	-10	709.999945	-15.00	1775	
3.8	0	709.999951	-9.00	1775	
3.8	10	709.999954	-6.00	1775	
3.8	20	709.999960	0.00	1775	
3.8	30	709.999963	3.00	1775	
3.8	40	709.999966	6.00	1775	
3.8	50	709.999970	10.00	1775	

**Note: The battery is rated 11.4Vdc.**

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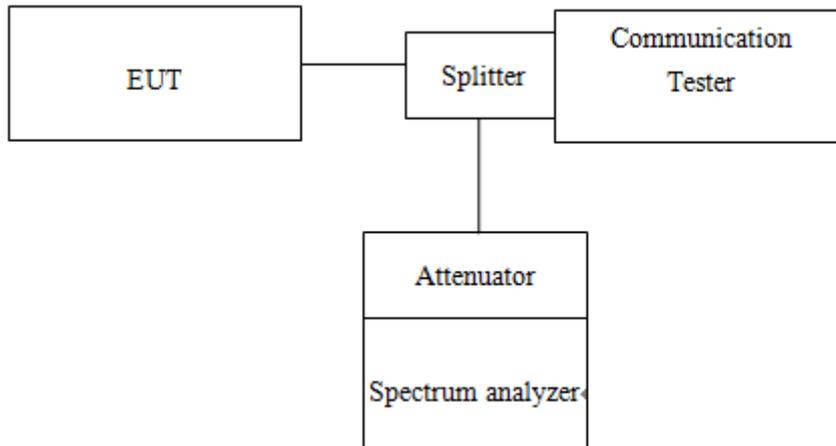
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## 12. PEAK TO AVERAGE RATIO

### 12.1. Standard Applicable

The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

### 12.2. Test SET-UP



### 12.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth; & internal = 1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

### 12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/19/2014	12/18/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2015	06/17/2016
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

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## 12.5. Measurement Result

### Tabular Results:

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1850.7	18607	5.69	13	1851.5	18615	6.21	13
1880.0	18900	5.65	13	1880.0	18900	6.08	13
1909.3	19193	5.37	13	1908.5	19185	5.84	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1852.5	18625	5.97	13	1855.0	18650	6.16	13
1880.0	18900	5.90	13	1880.0	18900	6.03	13
1907.5	19175	5.69	13	1905.0	19150	5.85	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1857.5	18675	6.26	13	1860.0	18700	5.77	13
1880.0	18900	6.18	13	1880.0	18900	5.79	13
1902.5	19125	6.12	13	1900.0	19100	5.73	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1710.7	19957	6.07	13	1711.5	19965	6.34	13
1732.5	20175	<b>6.13</b>	13	1732.5	20175	<b>6.34</b>	13
1754.3	20393	5.96	13	1753.5	20385	6.32	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1712.5	19957	<b>6.25</b>	13	1715.0	20000	6.02	13
1732.5	20175	6.09	13	1732.5	20175	6.07	13
1752.5	20375	6.16	13	1750.0	20350	<b>6.13</b>	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1717.5	20025	6.68	13	1720.0	20050	6.39	13
1732.5	20175	6.65	13	1732.5	20175	6.36	13
1747.5	20325	<b>6.72</b>	13	1745.0	20300	<b>6.57</b>	13

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
824.7	20407	4.98	13	825.5	20415	5.67	13
836.5	20525	<b>6.17</b>	13	836.5	20525	<b>6.35</b>	13
848.3	20643	4.96	13	847.5	20635	5.93	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
826.5	20425	5.67	13	829.0	20450	5.92	13
836.5	20525	<b>6.03</b>	13	836.5	20525	5.87	13
846.5	20625	5.89	13	844.0	20600	<b>6.02</b>	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
779.5	23205	5.88	13	23230	782	<b>5.97</b>	13
782.0	23230	5.97	13				
784.5	23255	<b>5.98</b>	13				

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LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
706.5	23755	5.93	13	709.0	23780	6.01	13
710.0	23790	5.76	13	710.0	23790	<b>6.01</b>	13
713.5	23825	<b>6.15</b>	13	711.0	23780	5.92	13

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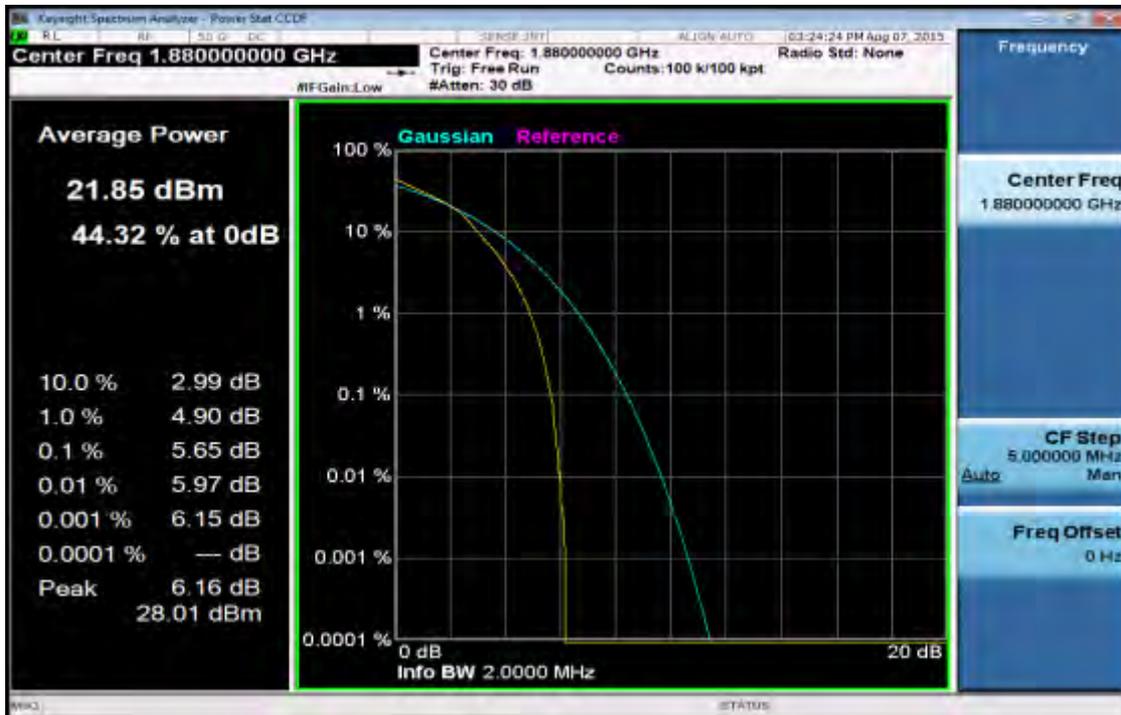
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Measurement Results:

1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Low



1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Mid



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1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel High



3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Low



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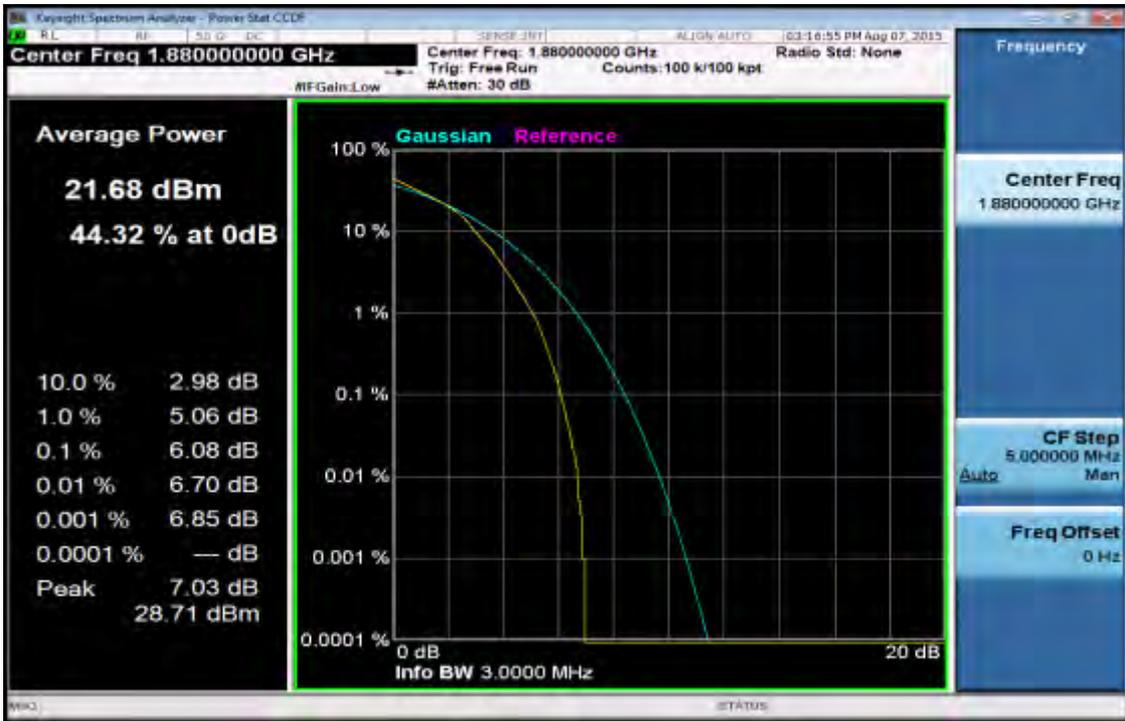
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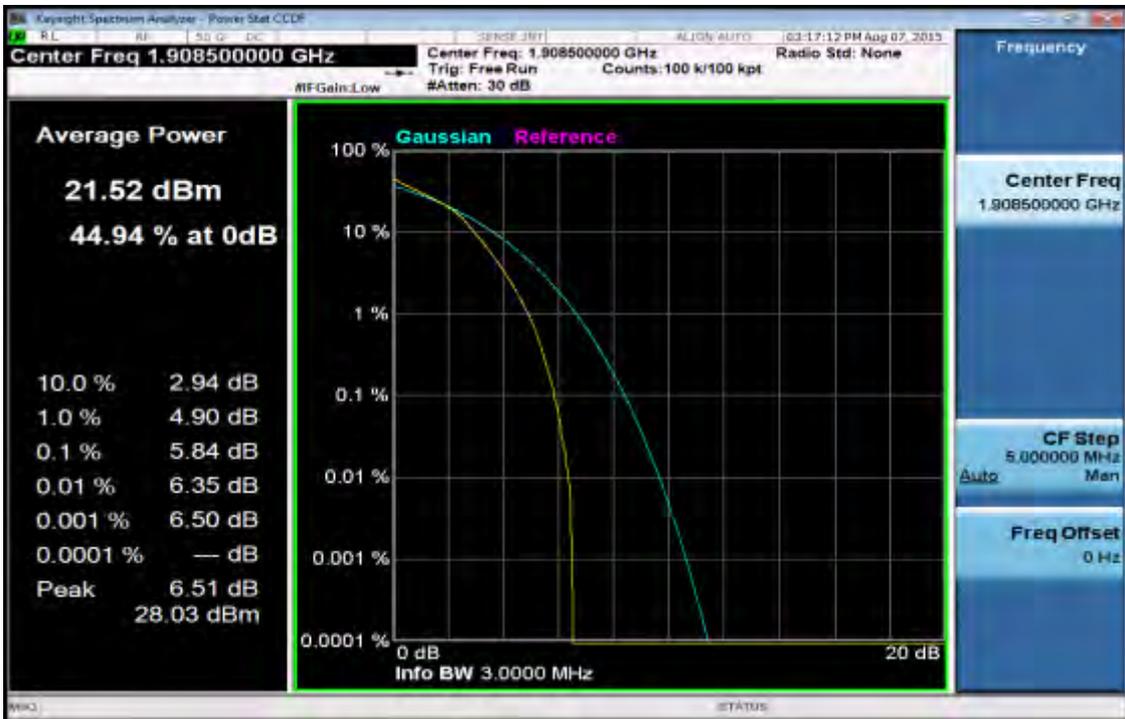
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**3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Mid**



**3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel High**



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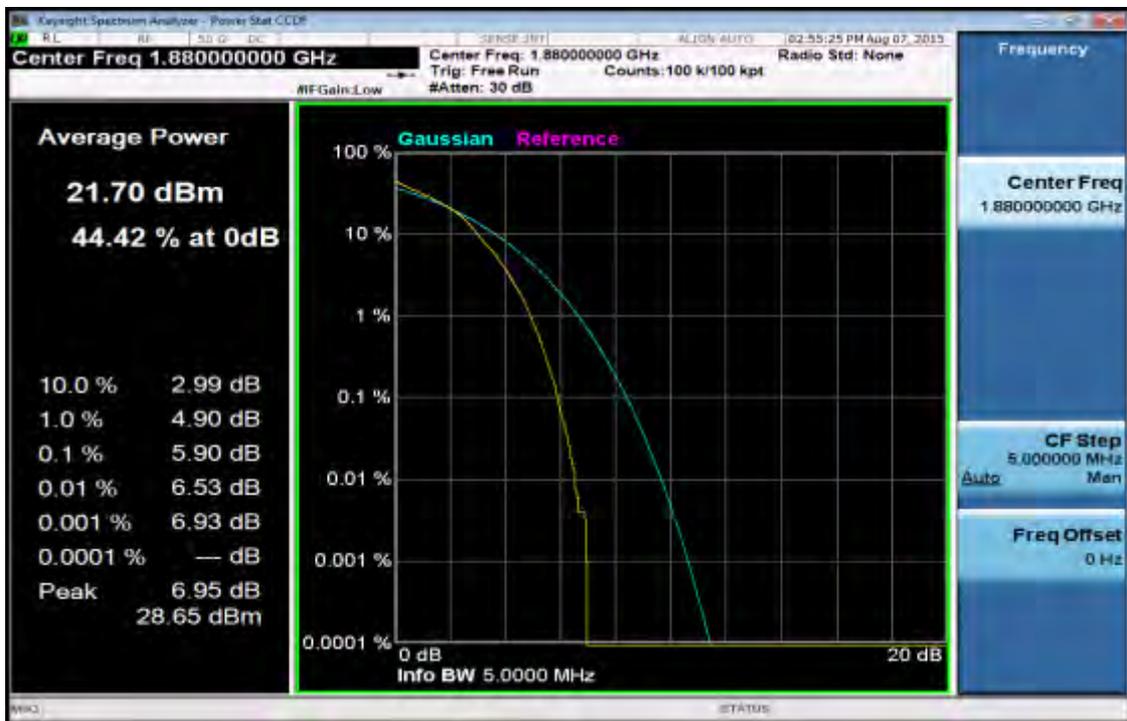
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**5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Low**



**5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Mid**



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**5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel High**



**10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Low**



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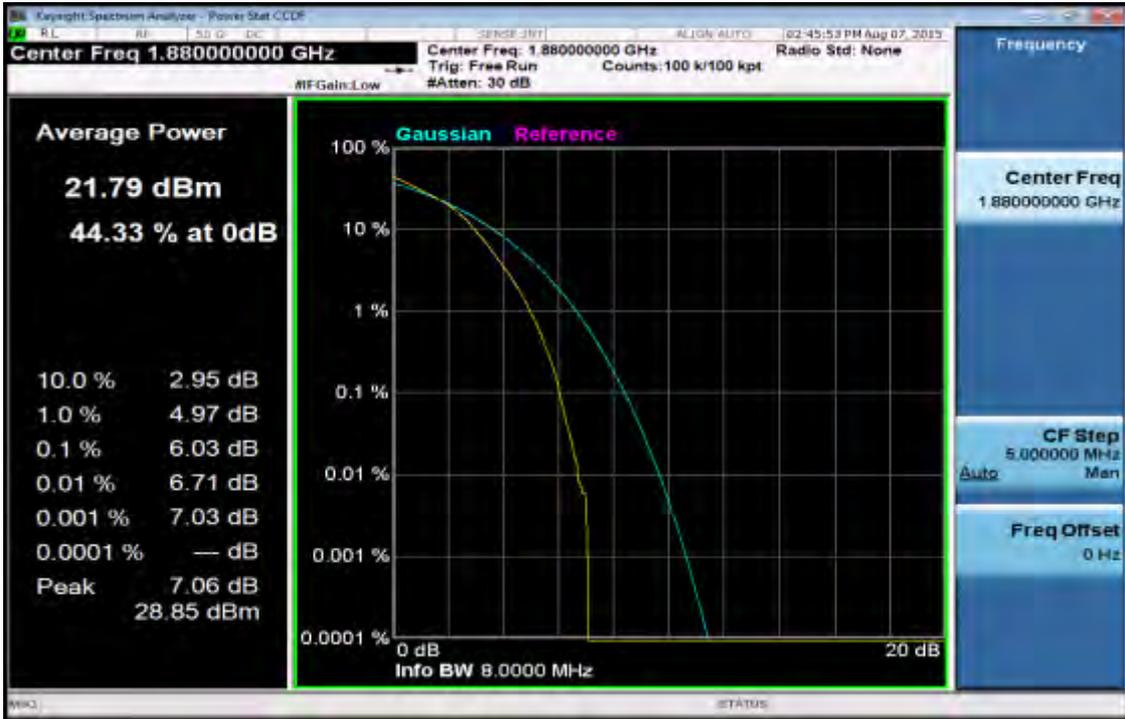
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**10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Mid**



**10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel High**



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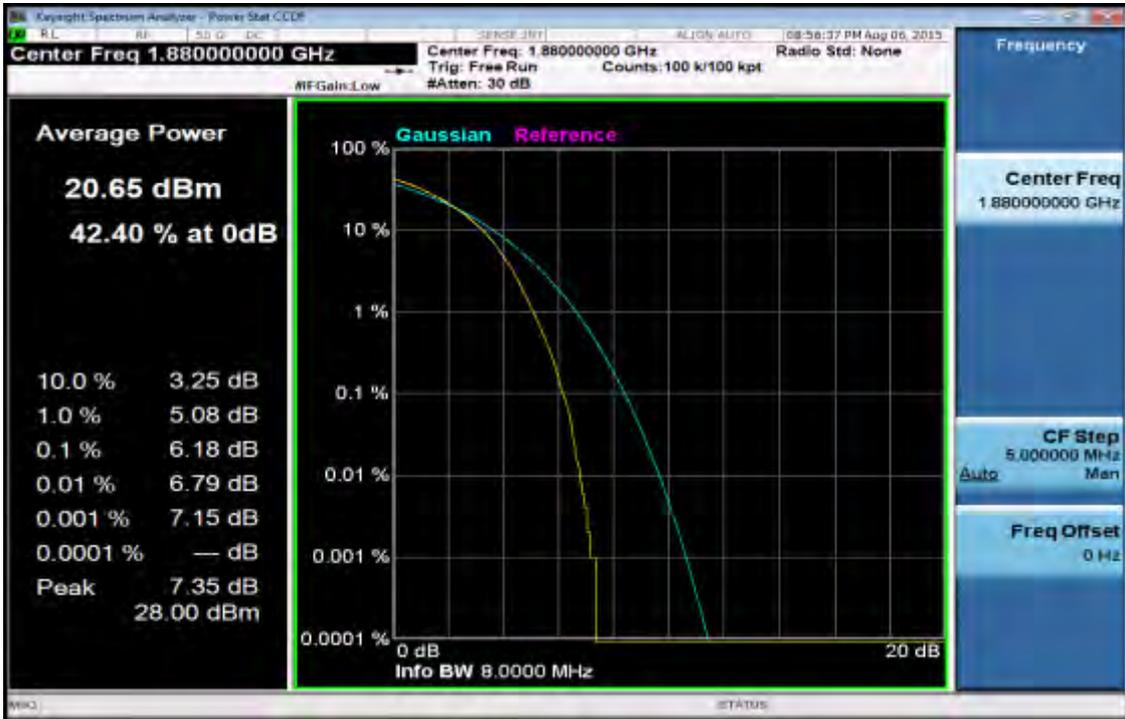
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15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Low



15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Mid



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**15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel High**



**20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Low**



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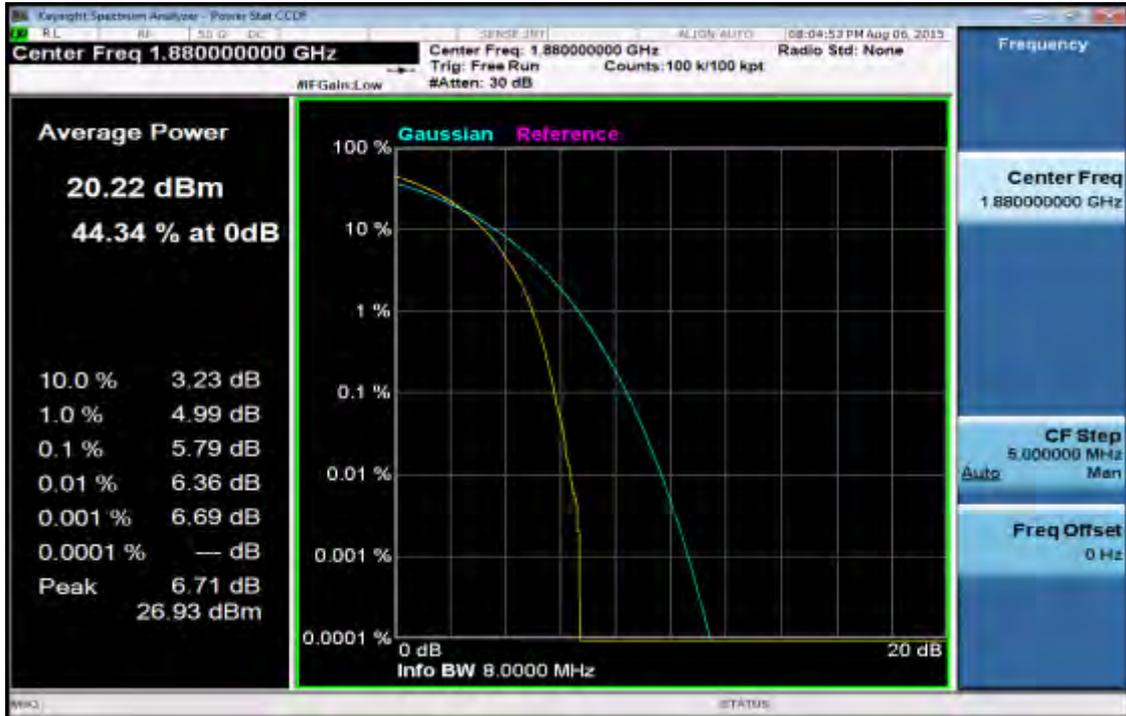
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**20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Mid**



**20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel High**



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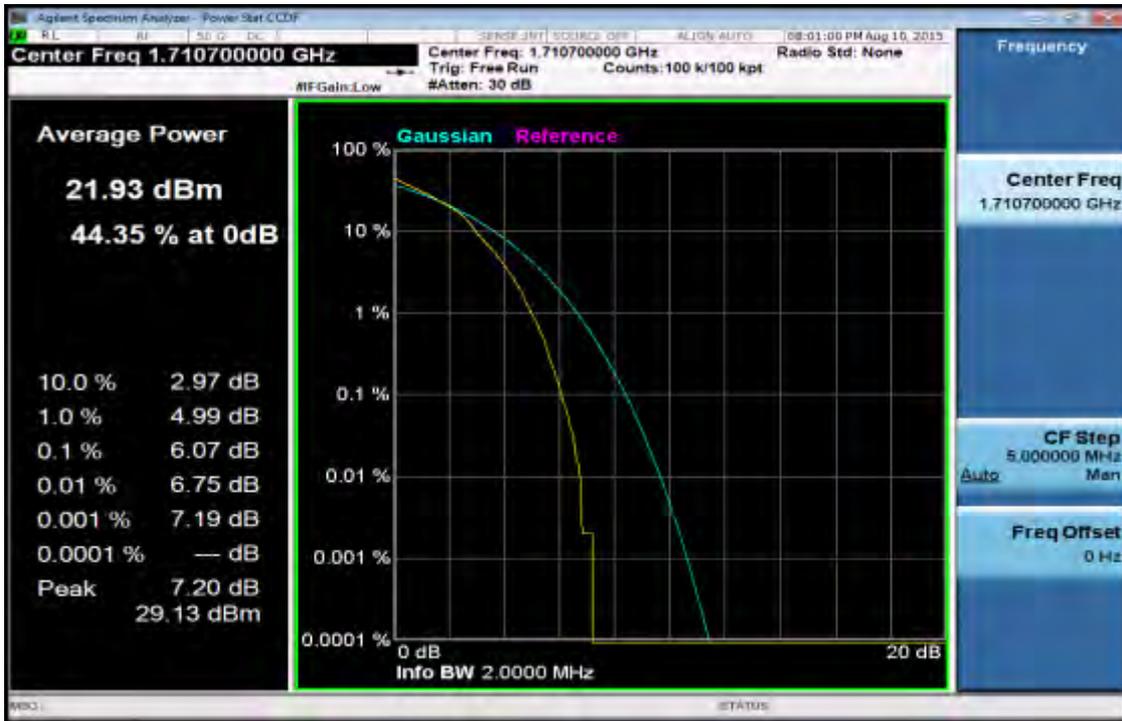
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1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Low



1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Mid



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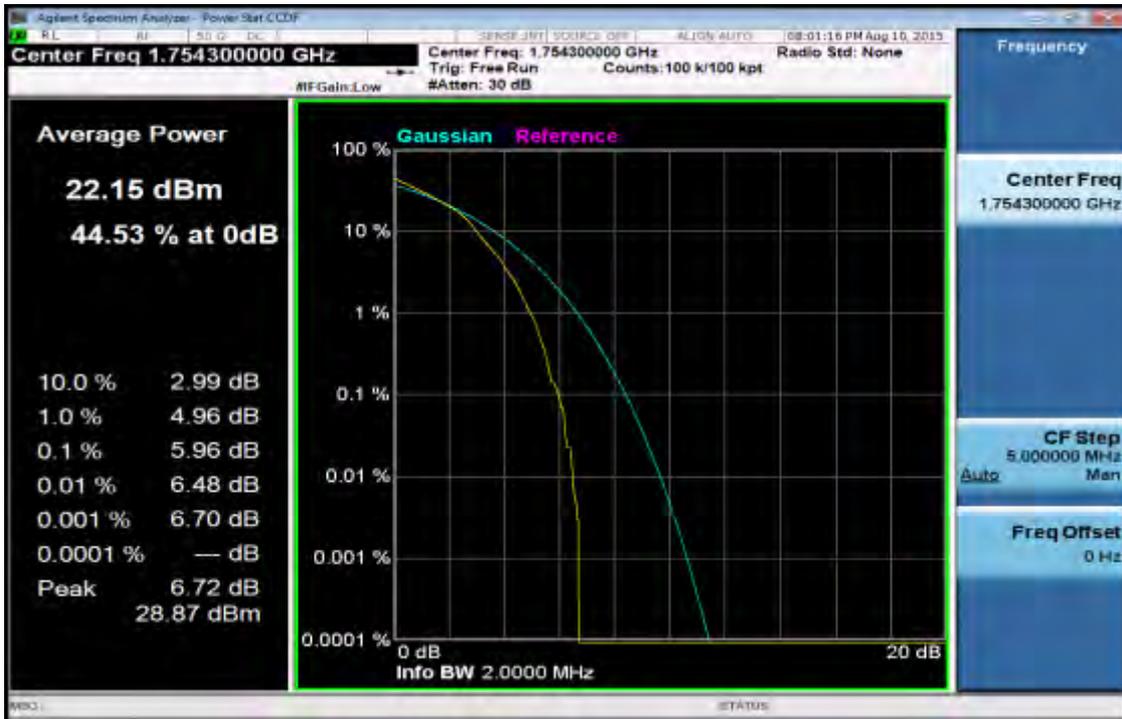
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1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel High



3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Low



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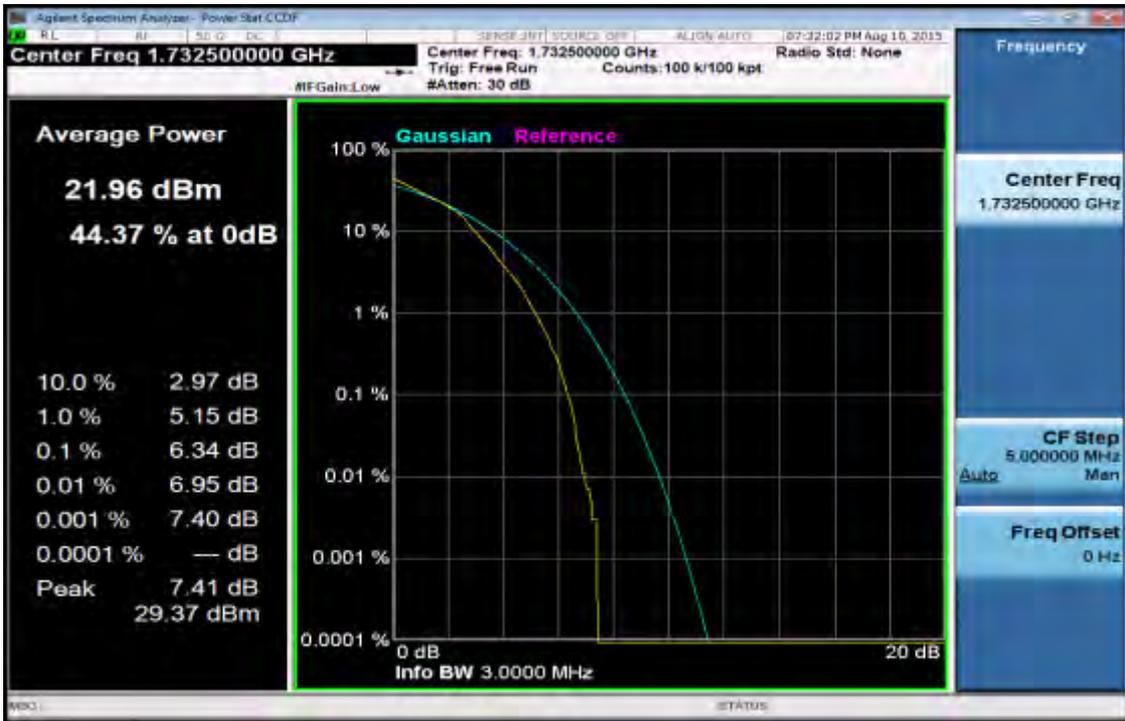
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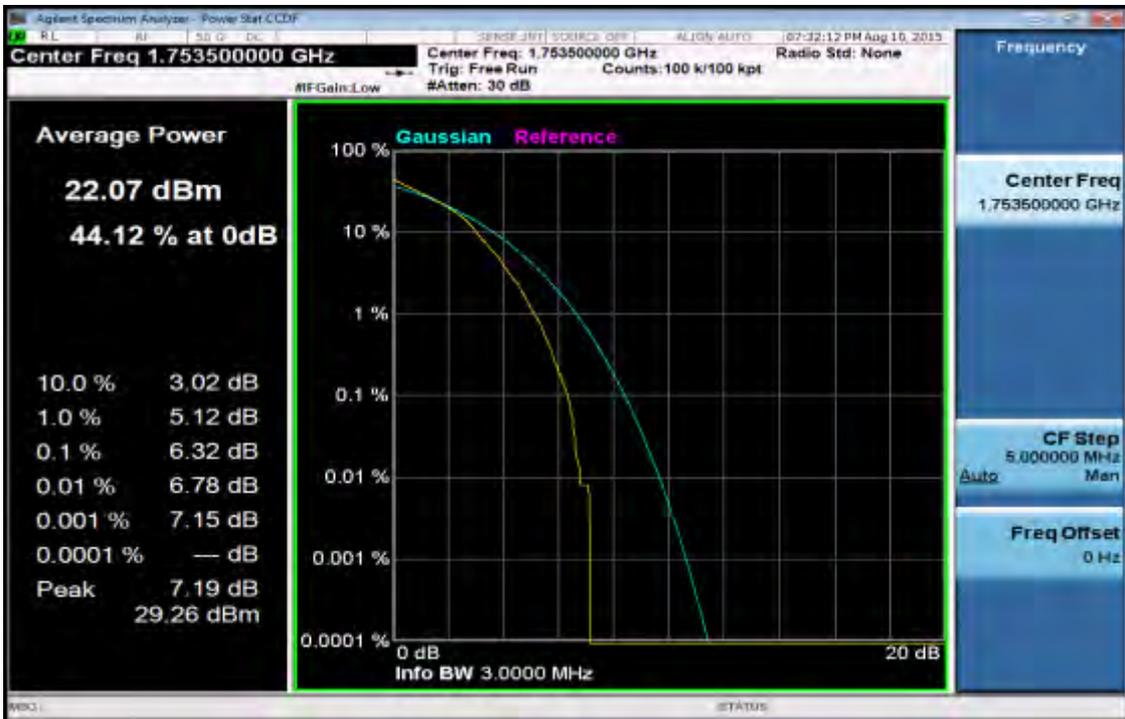
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3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Mid



3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel High



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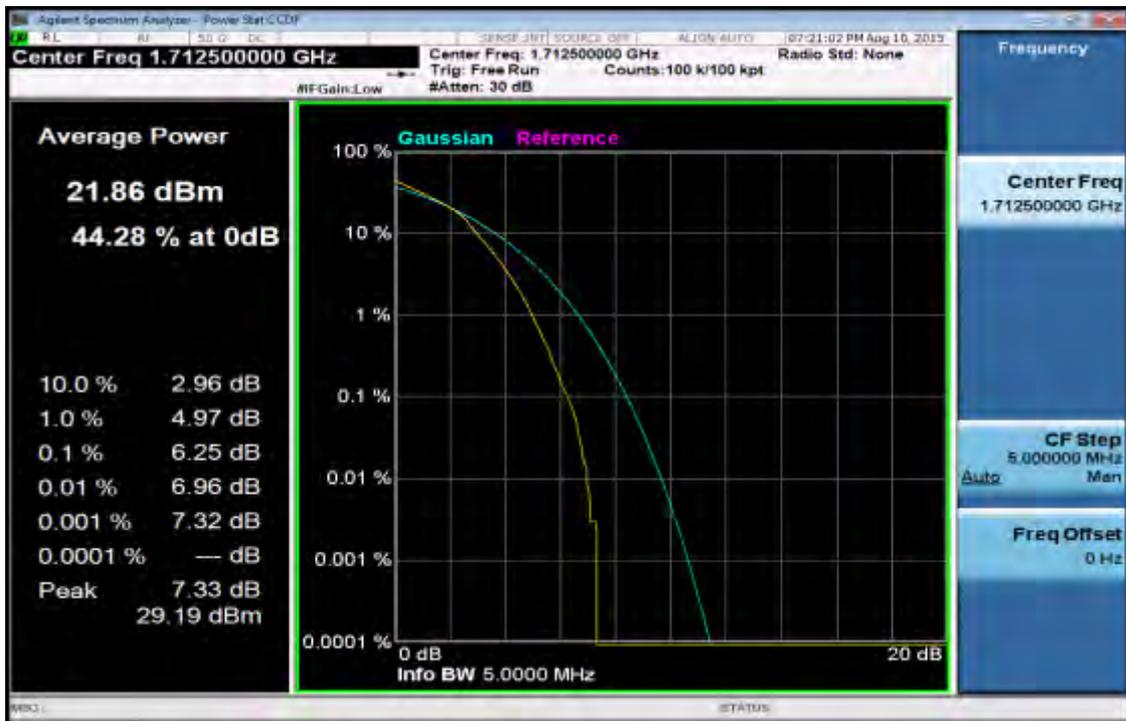
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5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Mid



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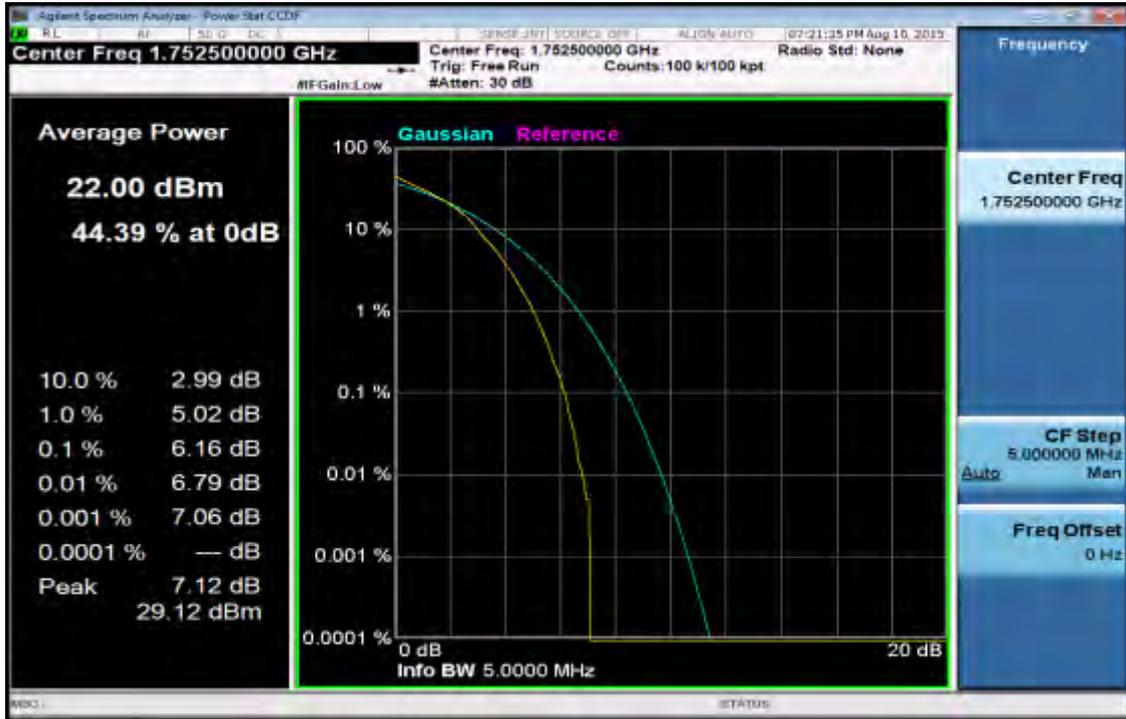
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**5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel High**



**10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Low**



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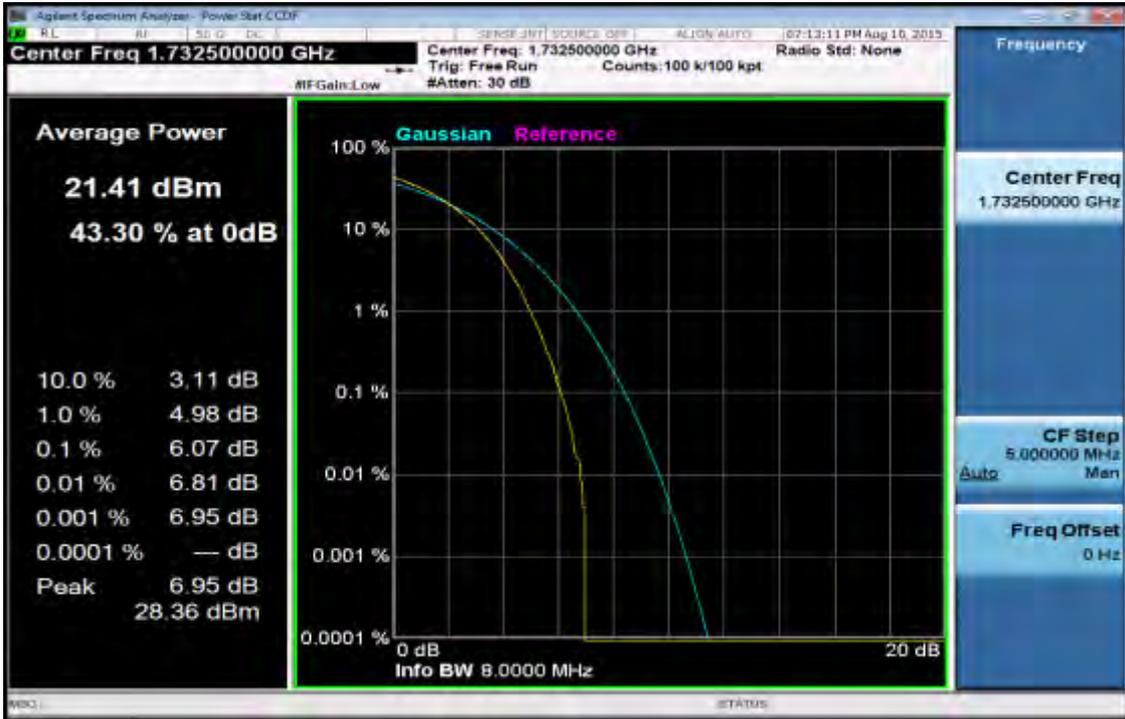
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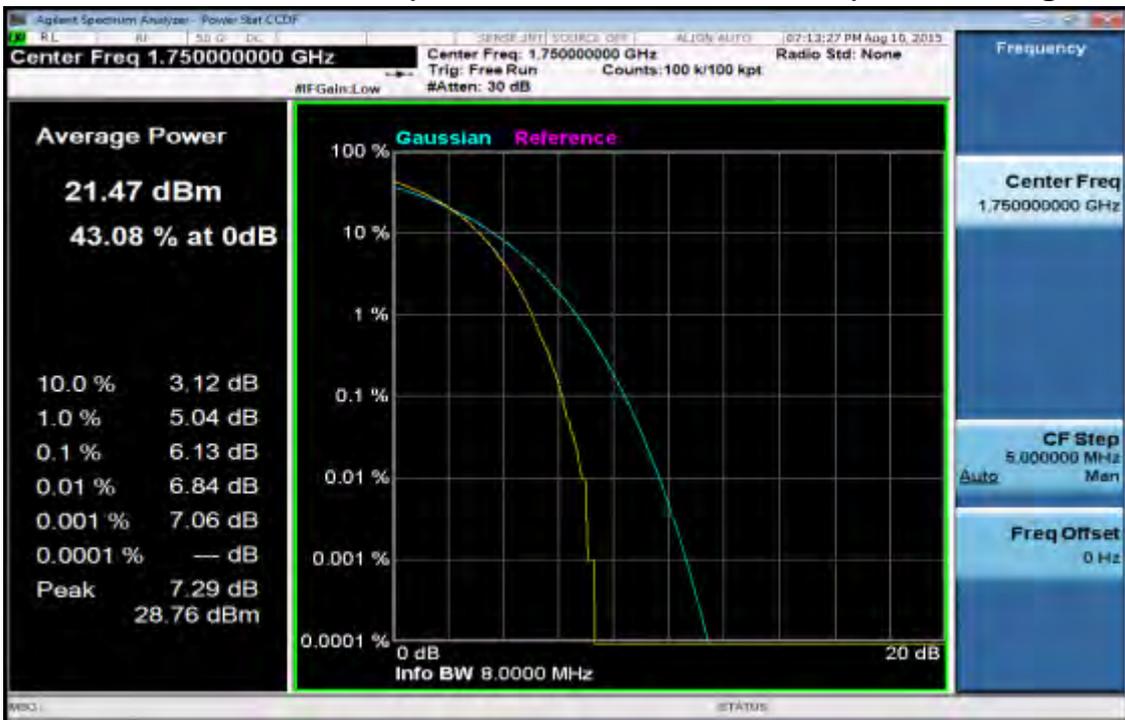
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10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel High



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15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Low



15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Mid



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15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel High



20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Low



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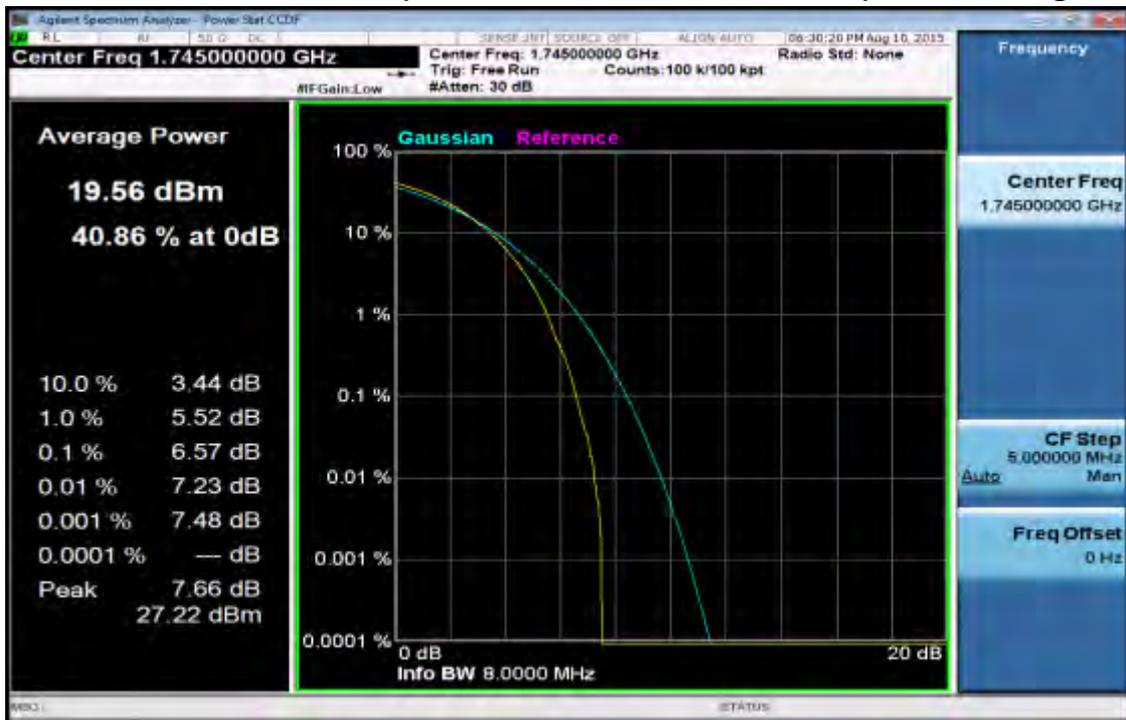
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**20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Mid**



**20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel High**



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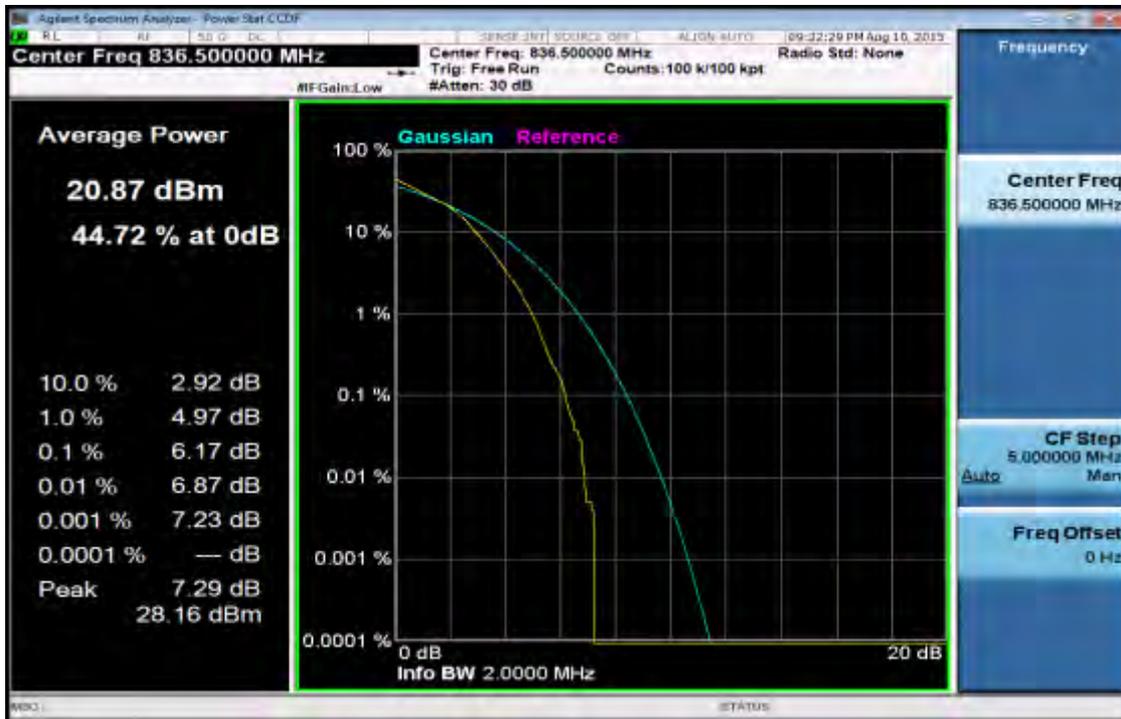
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1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Low



1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Mid



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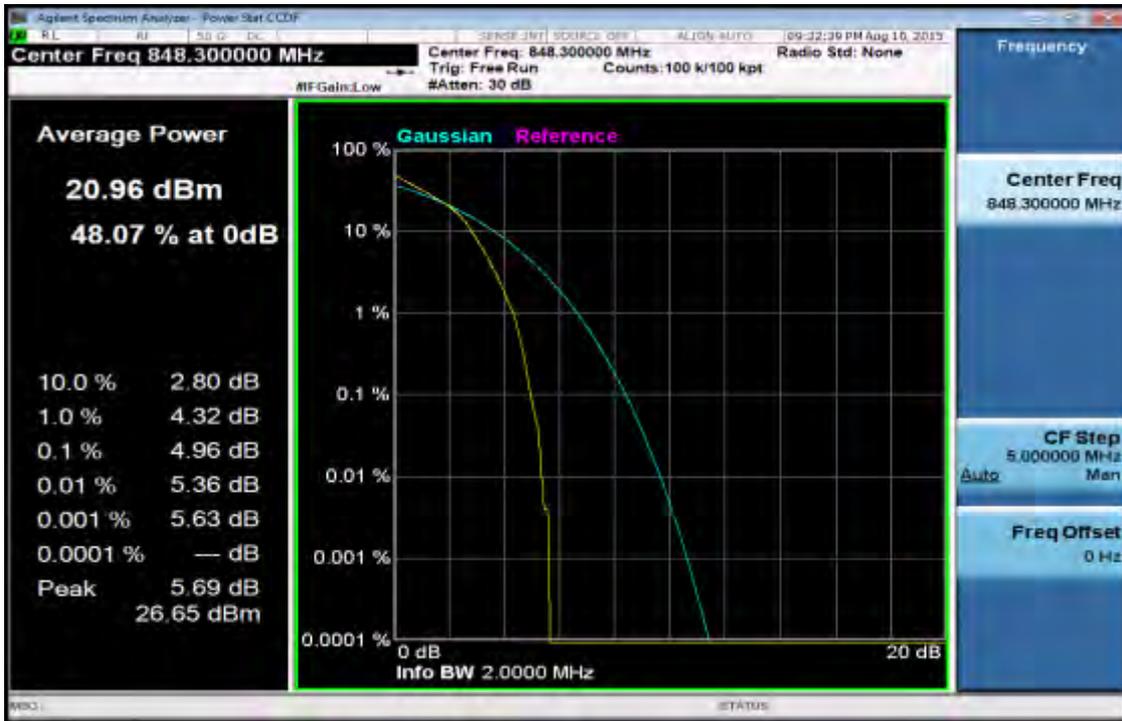
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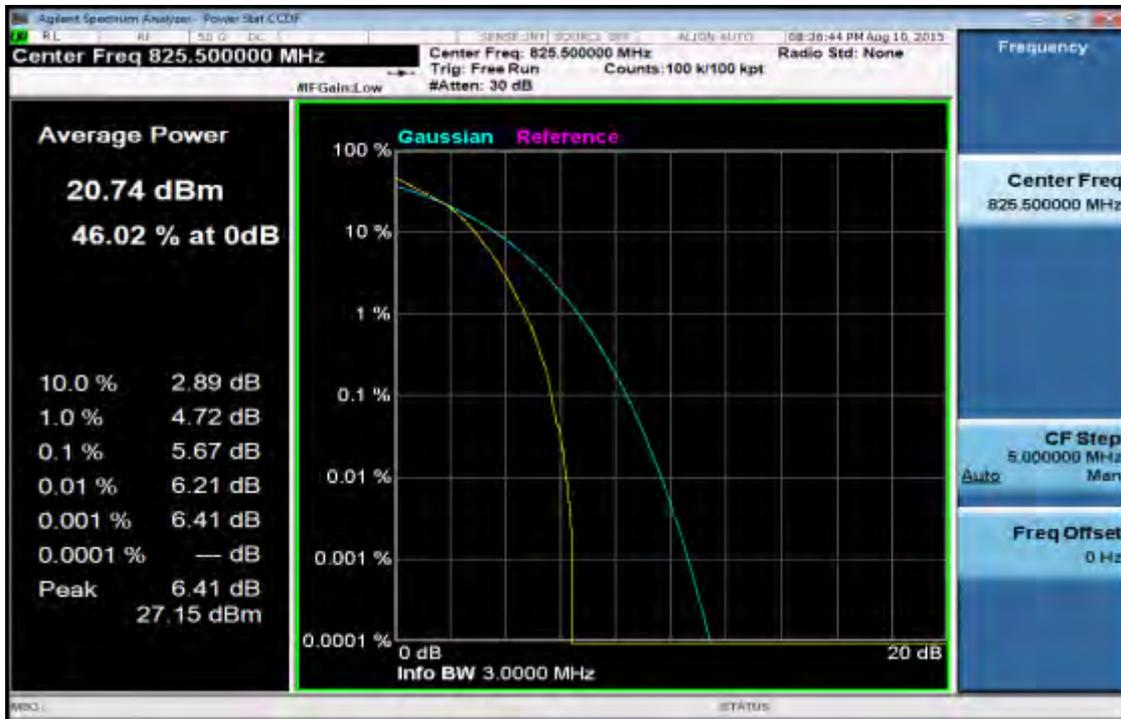
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1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel High



3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Low



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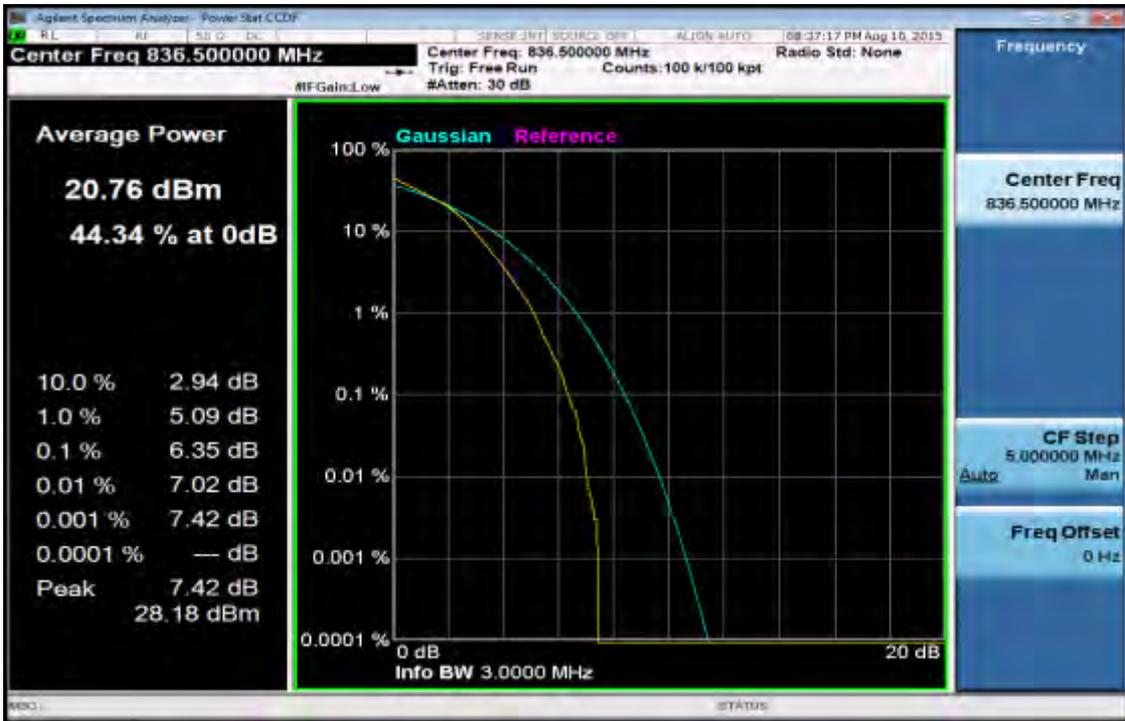
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**3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Mid**



**3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel High**



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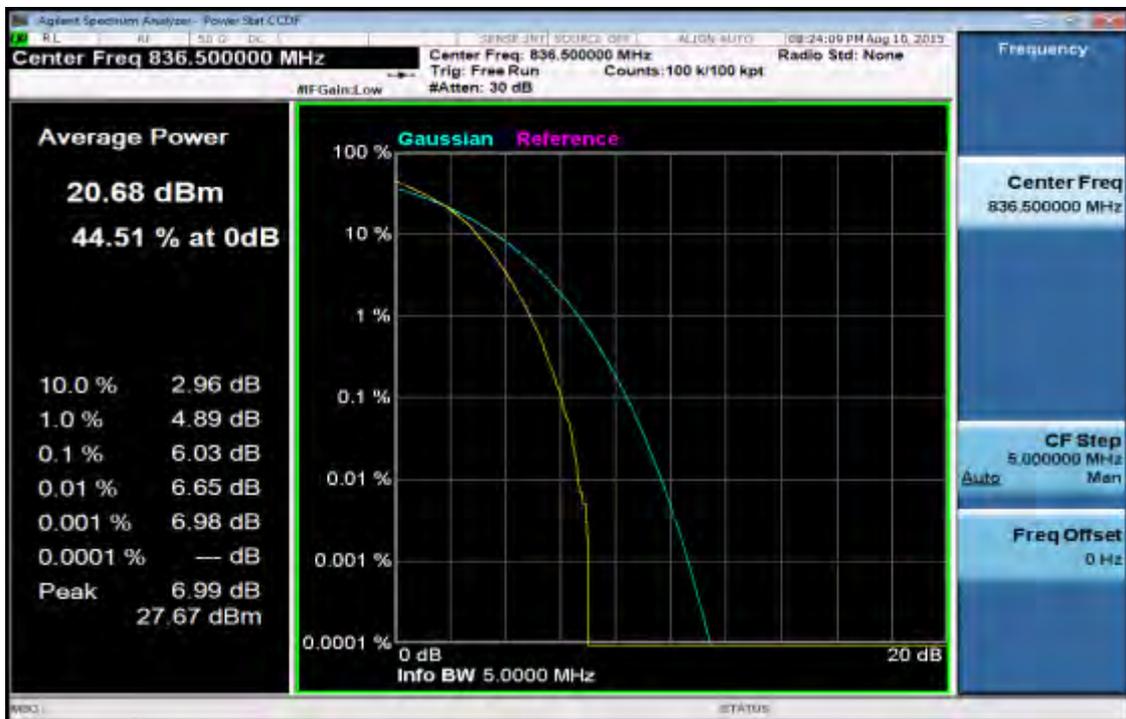
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5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Mid



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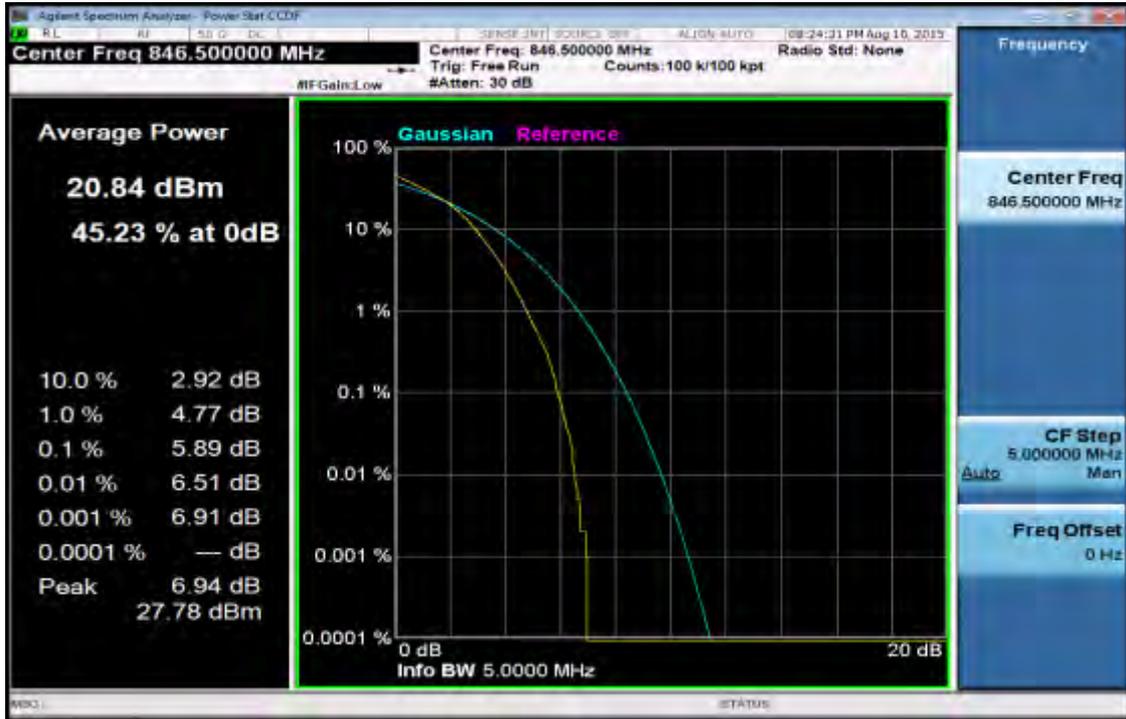
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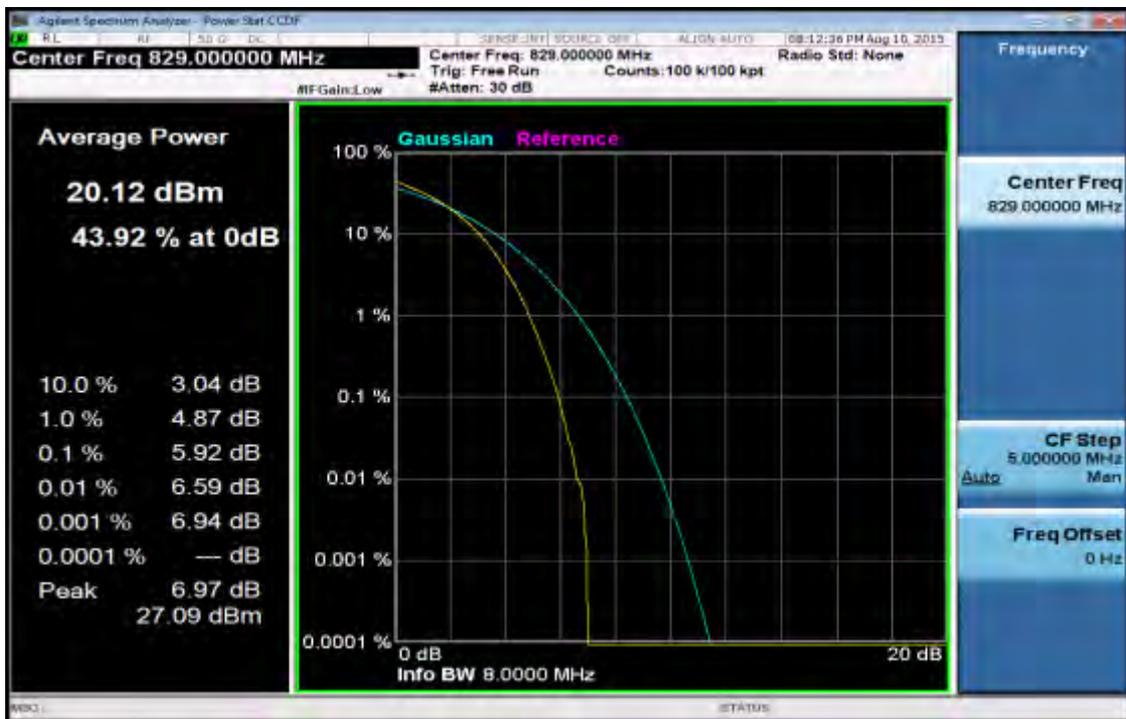
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**5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel High**



**10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Low**



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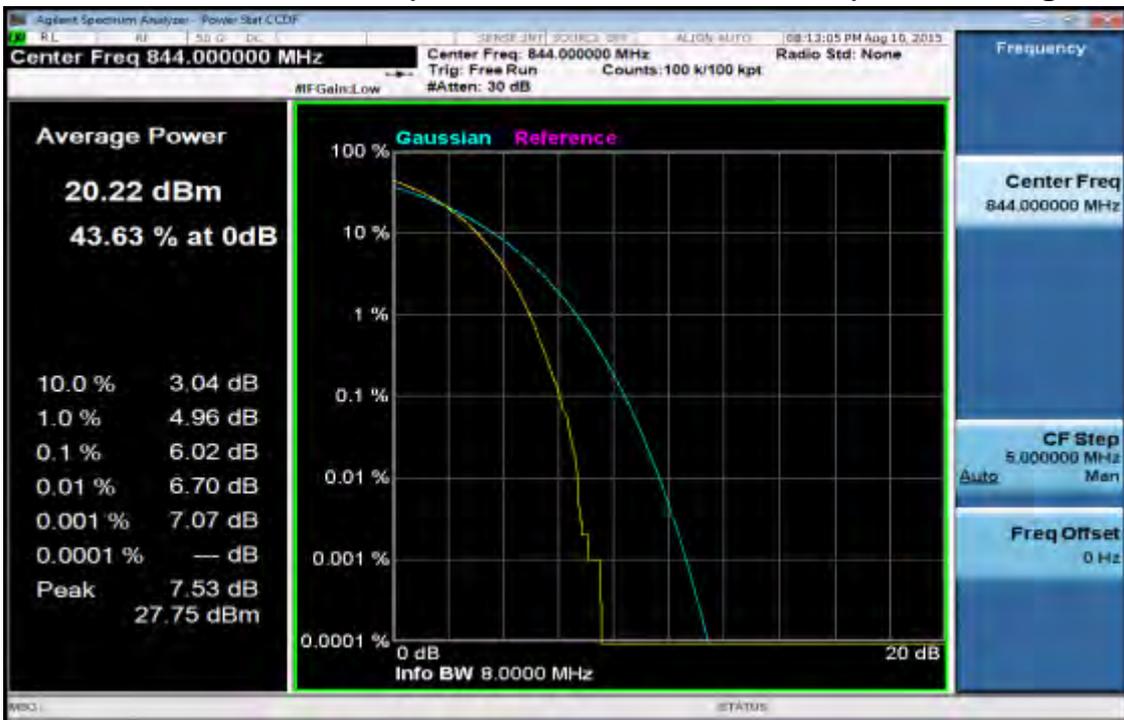
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**10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Mid**



**10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel High**



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**5MHz BW LTE-Band 13(16QAM Number: 25 Offset: 0) Channel Low**



**5MHz BW LTE-Band 13(16QAM Number: 25 Offset: 0) Channel Mid**



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**5MHz BW LTE-Band 13(16QAM Number: 25 Offset: 0) Channel High**



**10MHz BW LTE-Band 13(16QAM Number: 50 Offset: 0) Channel Mid**



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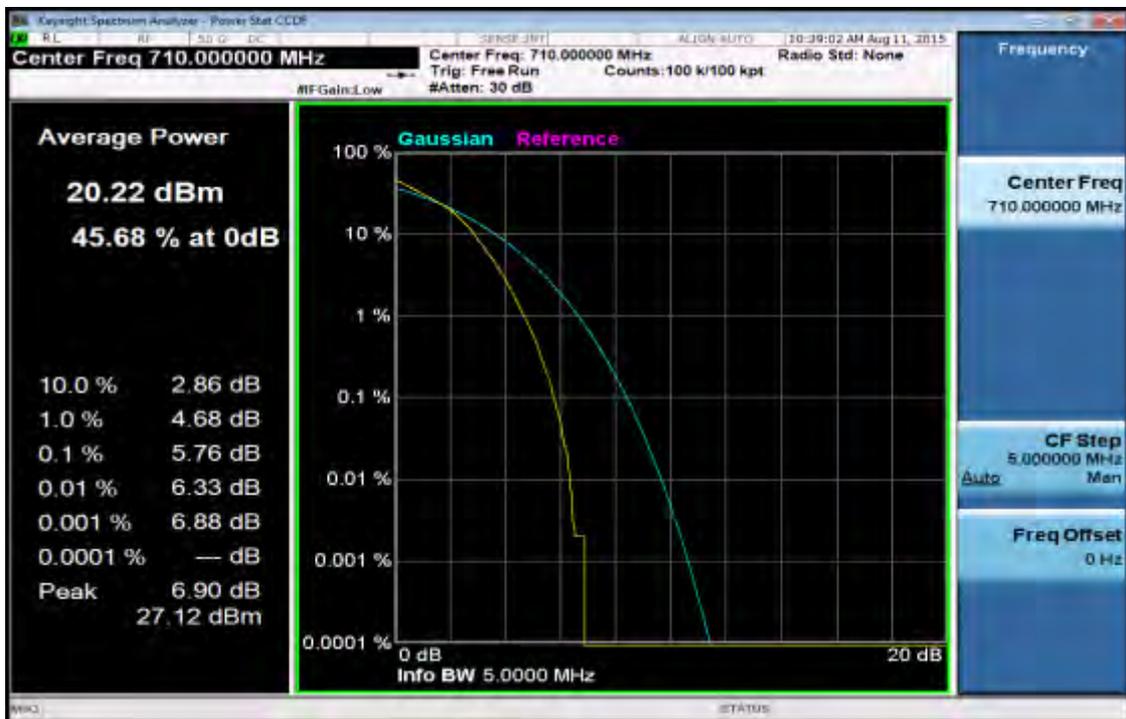
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5MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel Mid



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**5MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel High**



**10MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel Low**



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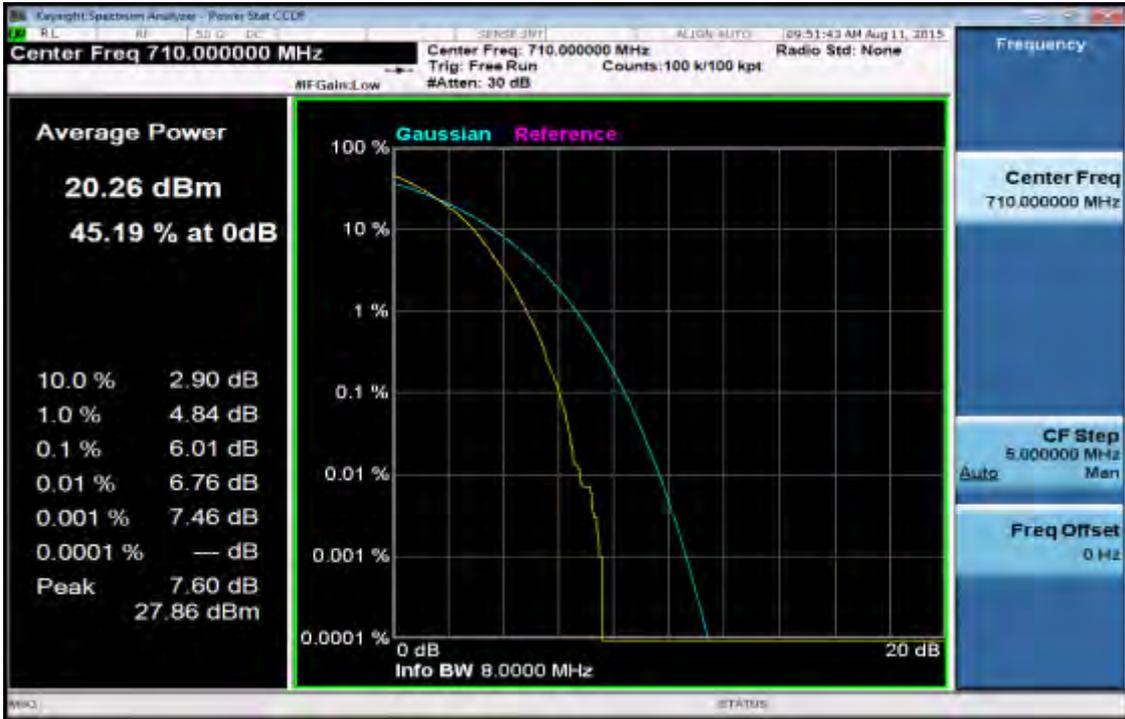
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**10MHz BW LTE-Band 17(16QAM Number: 50 Offset: 0) Channel Mid**



**10MHz BW LTE-Band 17(16QAM Number: 50 Offset: 0) Channel High**



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