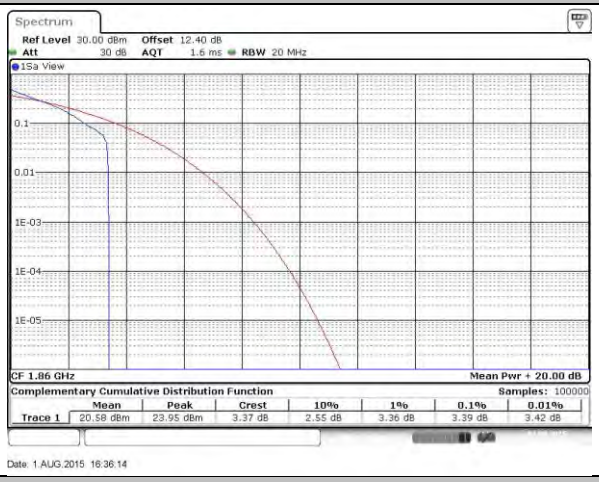
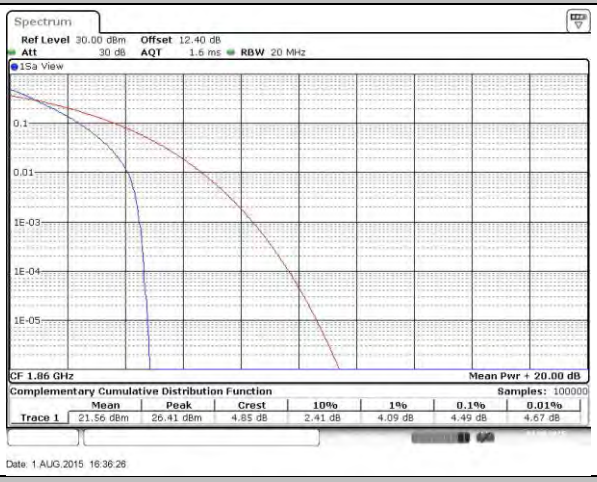
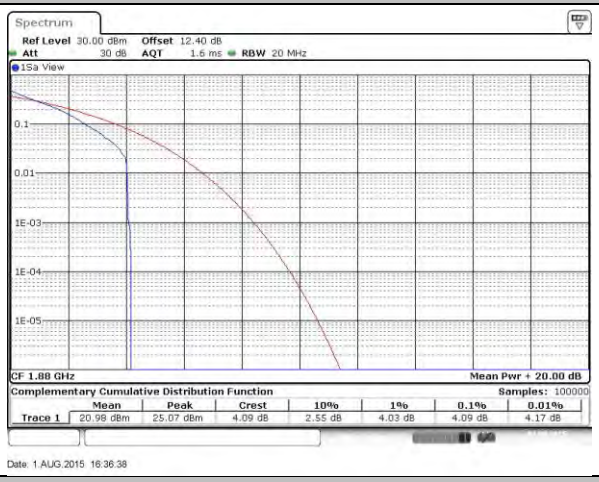
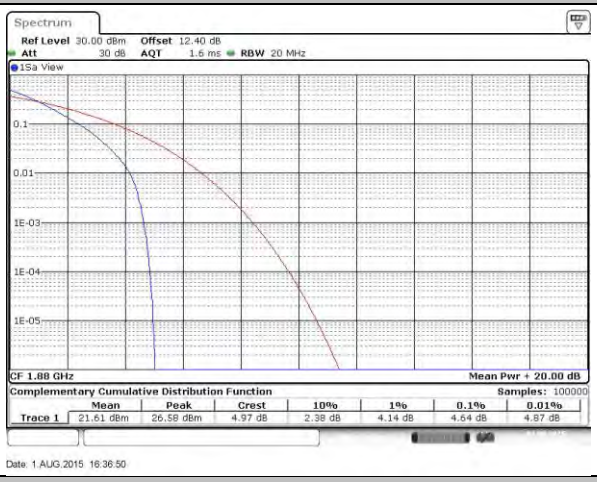
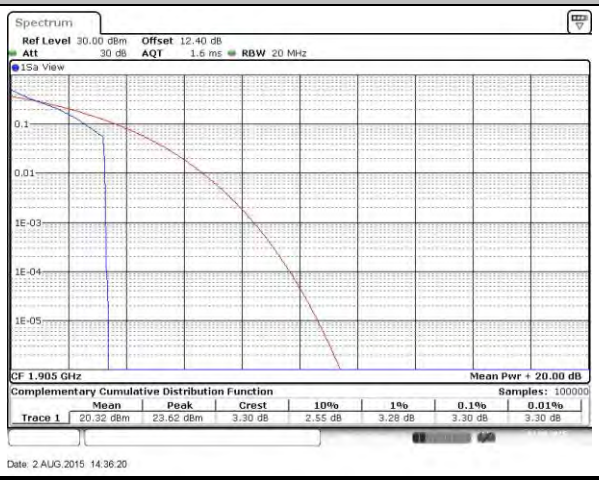
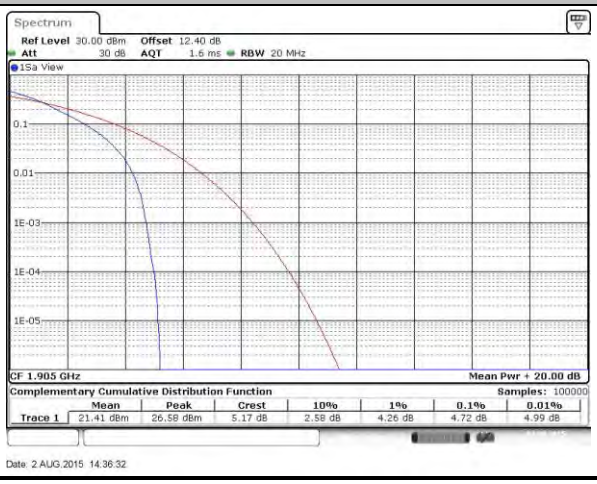
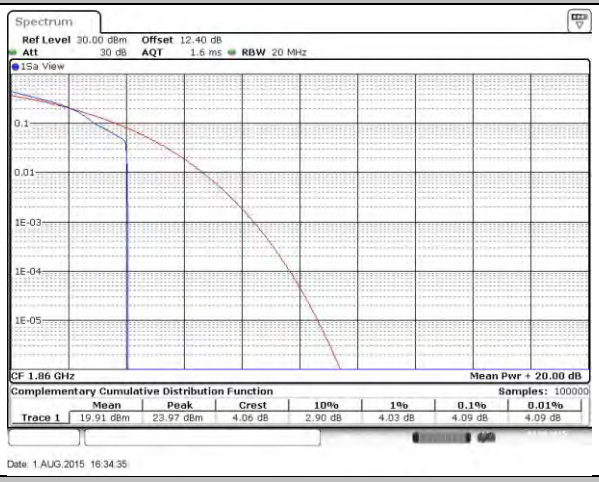
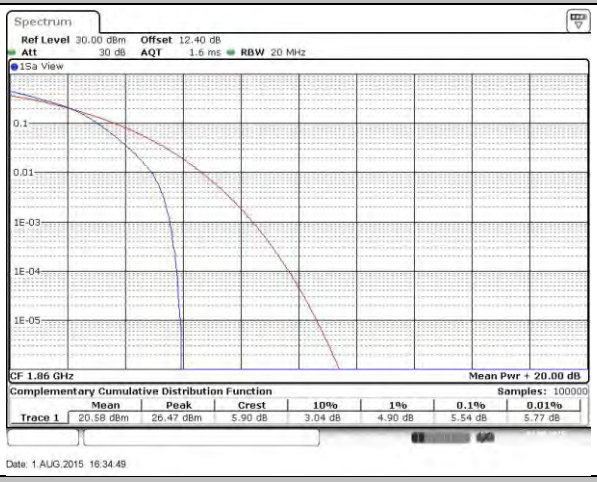
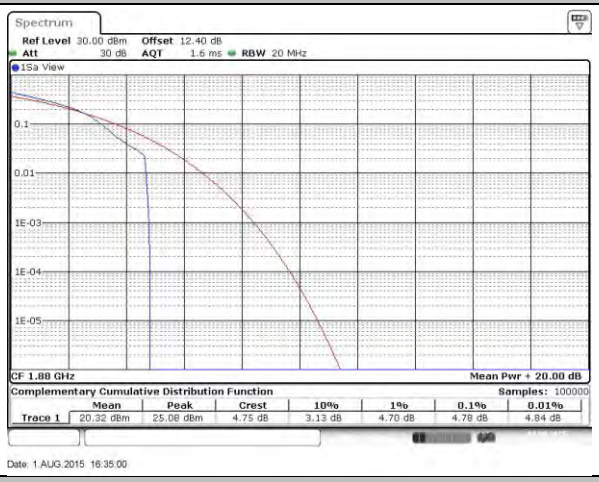
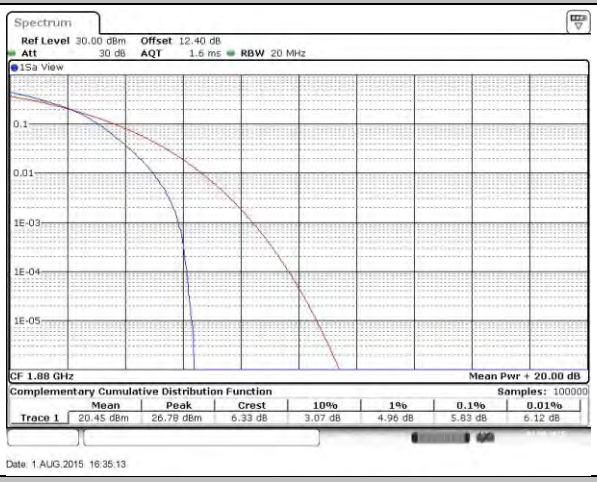
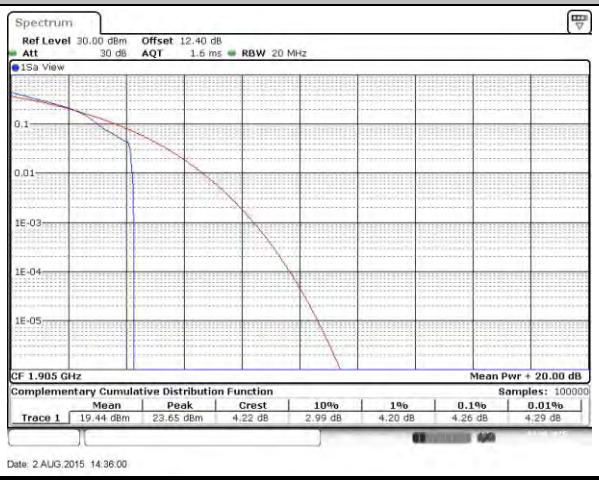
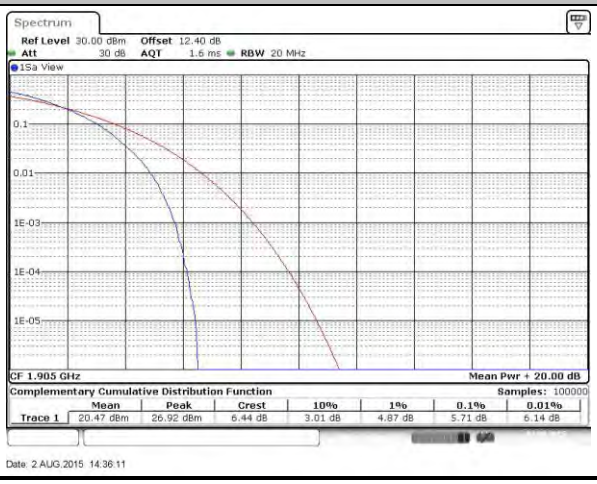
# LTE Band 25

## Peak-to-Average Ratio

| Mode | LTE Band 25 / 20MHz | | | | |
|---|---|---|---|---|---|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 3.39 | 4.49 | 4.09 | 5.54 | PASS |
| Middle CH | 4.09 | 4.64 | 4.78 | 5.83 | |
| Highest CH | 3.3 | 4.72 | 4.26 | 5.71 | |

| LTE Band 25 / 20MHz / QPSK | |
|---|---|
| **Lowest Channel / 1RB** | **Lowest Channel / Full RB** |
|  |  |
| **Middle Channel / 1RB** | **Middle Channel / Full RB** |
|  |  |
| **Highest Channel / 1RB** | **Highest Channel / Full RB** |
|  |  |

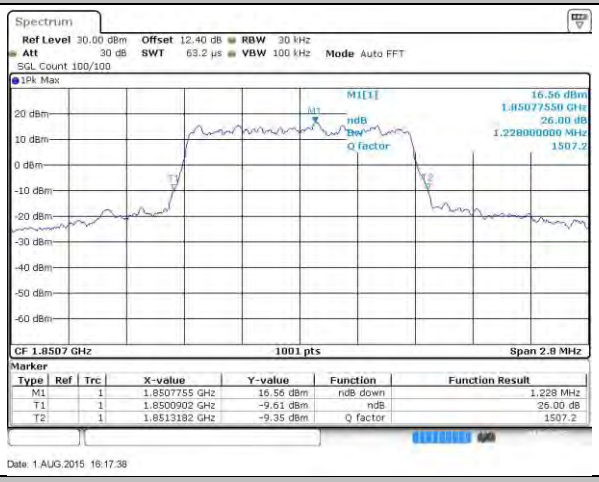
| LTE Band 25 / 20MHz / 16QAM | |
|---|---|
| **Lowest Channel / 1RB** | **Lowest Channel / Full RB** |
|  |  |
| **Middle Channel / 1RB** | **Middle Channel / Full RB** |
|  |  |
| **Highest Channel / 1RB** | **Highest Channel / Full RB** |
|  |  |

# 26dB Bandwidth

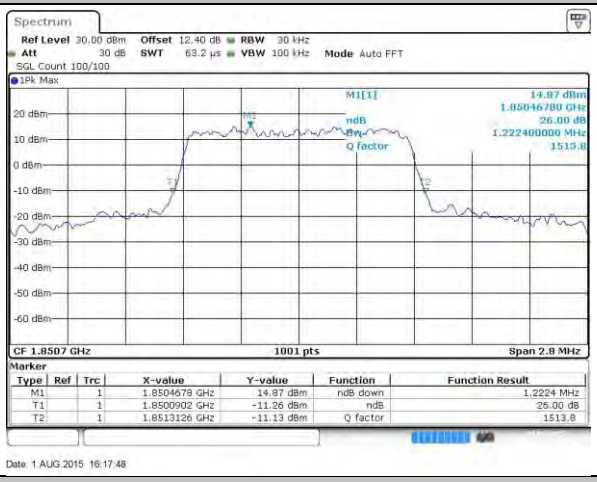
| Mode | LTE Band 25 : 26dB BW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.23 | 1.22 | 3.01 | 2.99 | 4.91 | 4.85 | 9.83 | 9.89 | 14.42 | 14.42 | 20.22 | 20.22 |
| Middle CH | 1.23 | 1.23 | 3.05 | 3.02 | 4.97 | 4.84 | 9.87 | 9.75 | 14.27 | 14.39 | 20.34 | 20.22 |
| Highest CH | 1.23 | 1.22 | 3.1 | 2.96 | 4.95 | 4.89 | 9.63 | 9.67 | 14.45 | 14.33 | 20.38 | 20.26 |

## LTE Band 25

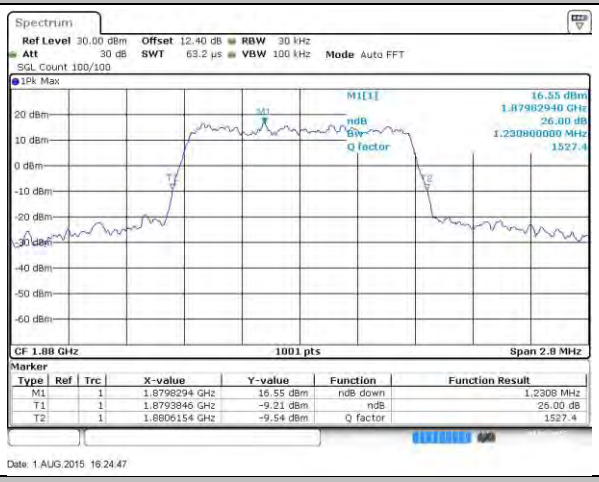
### Lowest Channel / 1.4MHz / QPSK



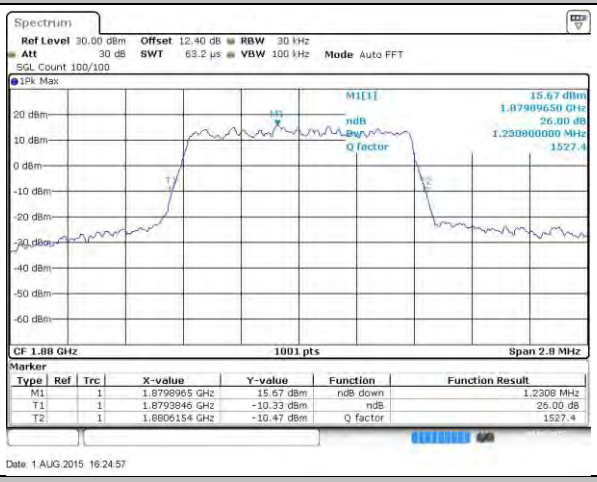

### Lowest Channel / 1.4MHz / 16QAM



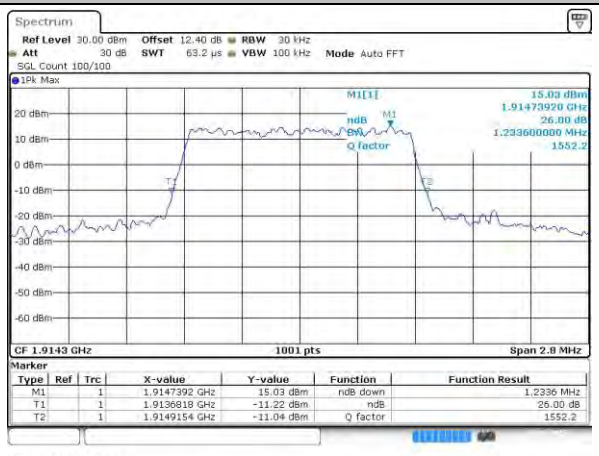

### Middle Channel / 1.4MHz / QPSK



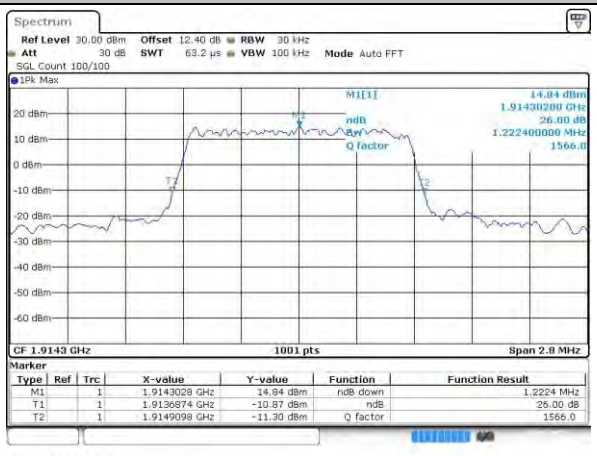

### Middle Channel / 1.4MHz / 16QAM




### Highest Channel / 1.4MHz / QPSK

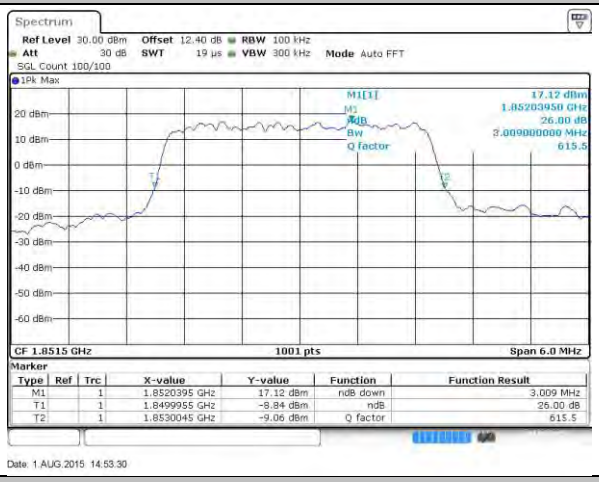



### Highest Channel / 1.4MHz / 16QAM

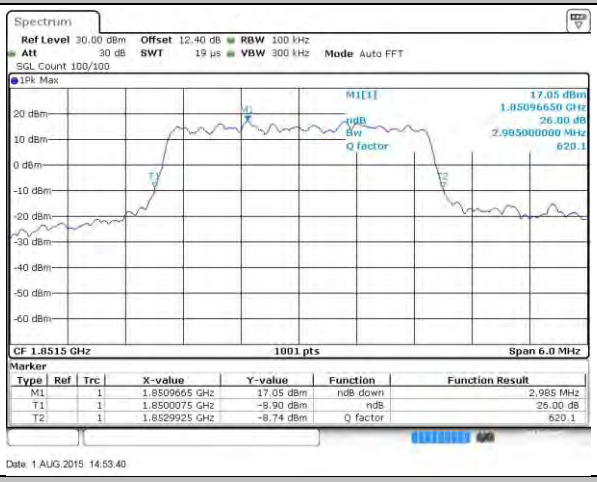


## LTE Band 25

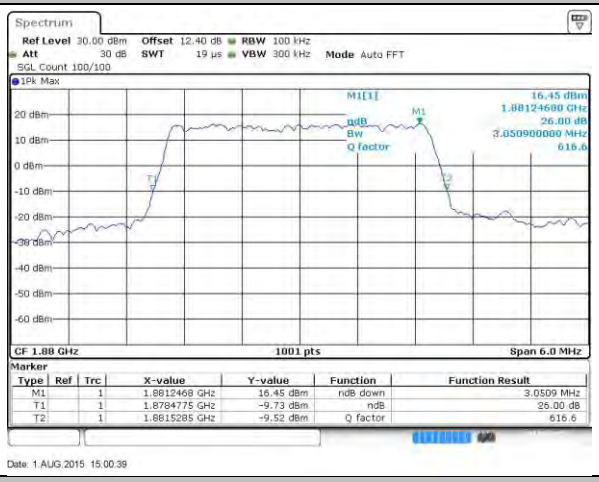
### Lowest Channel / 3MHz / QPSK



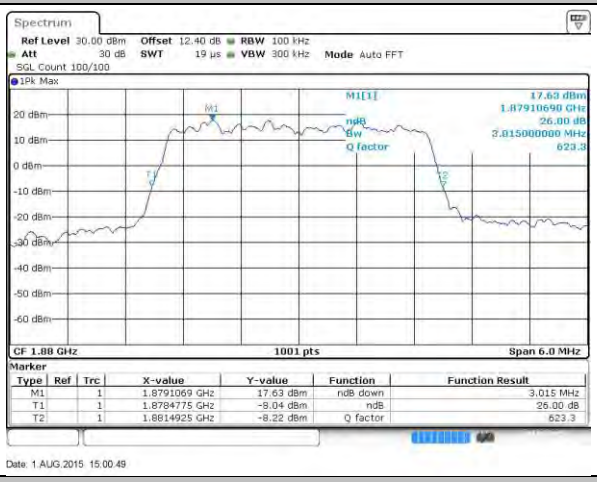

### Lowest Channel / 3MHz / 16QAM



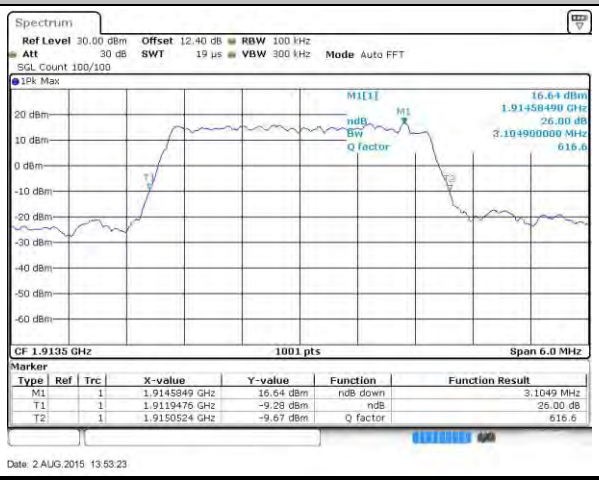

### Middle Channel / 3MHz / QPSK



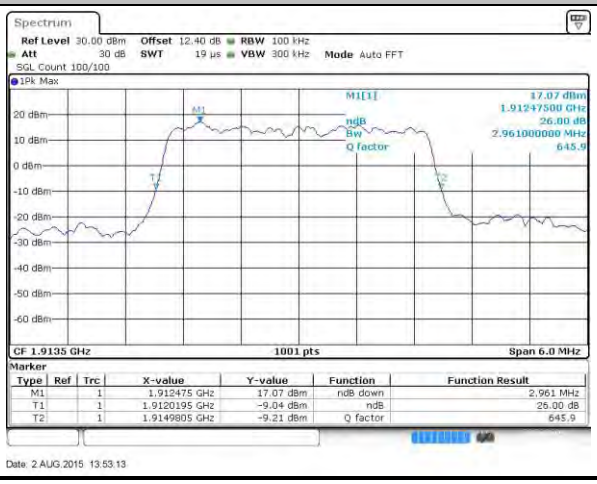

### Middle Channel /3MHz / 16QAM




### Highest Channel /3MHz / QPSK

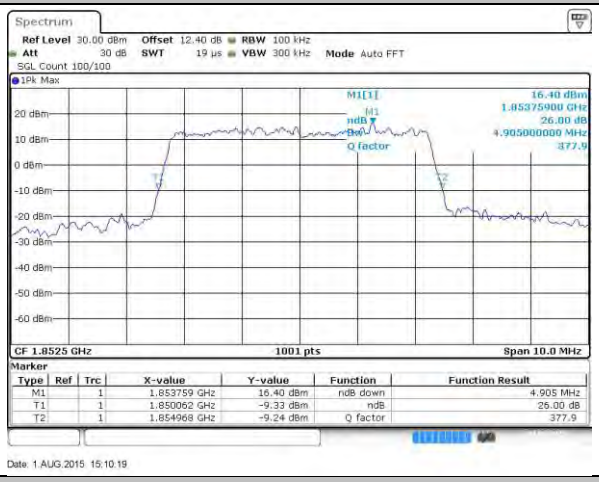



### Highest Channel /3MHz / 16QAM

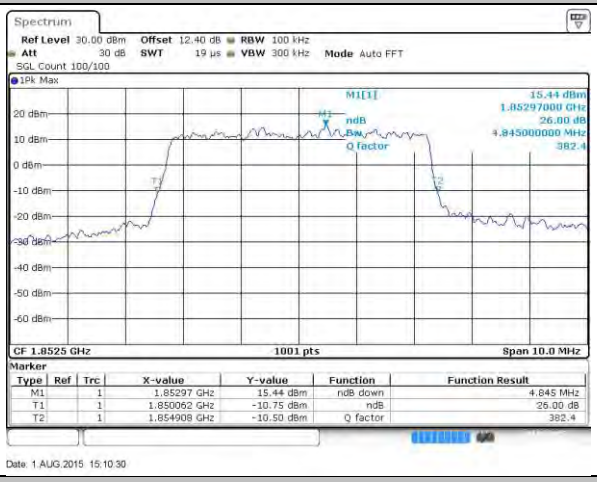


## LTE Band 25

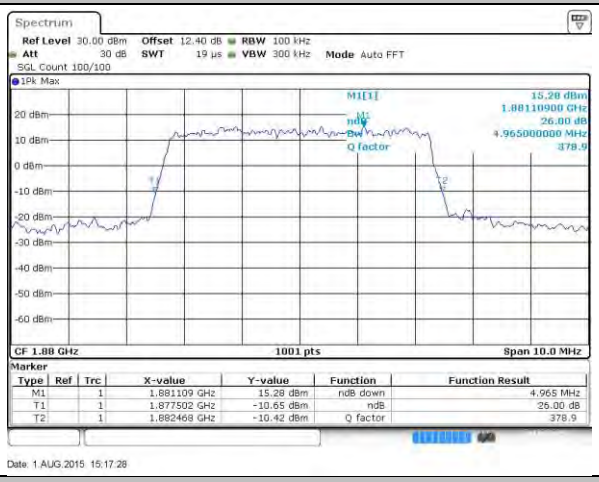
### Lowest Channel / 5MHz / QPSK



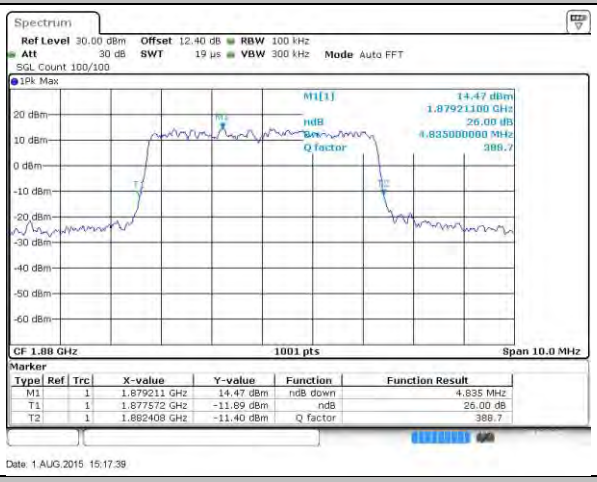

### Lowest Channel / 5MHz / 16QAM



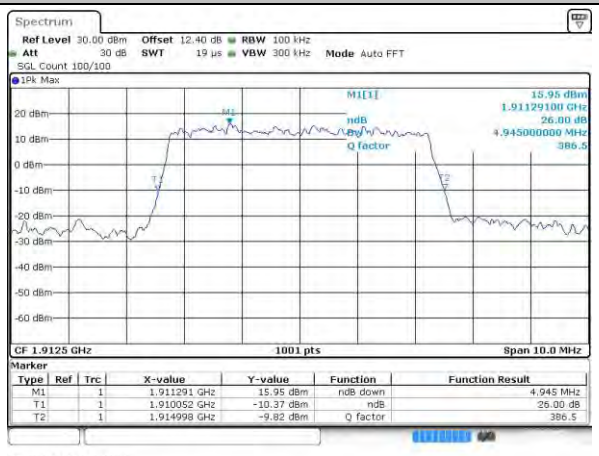

### Middle Channel / 5MHz / QPSK



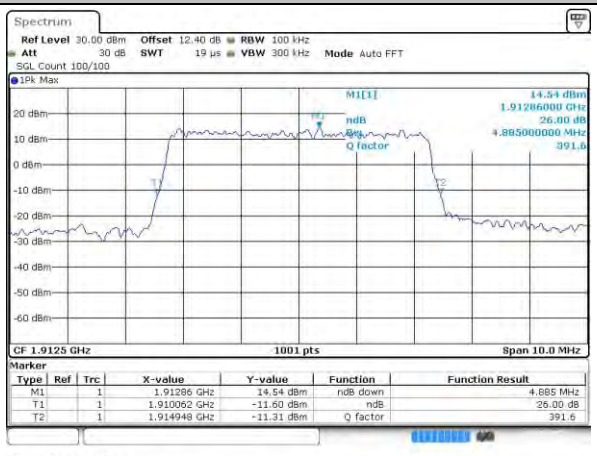

### Middle Channel / 5MHz / 16QAM




### Highest Channel / 5MHz / QPSK

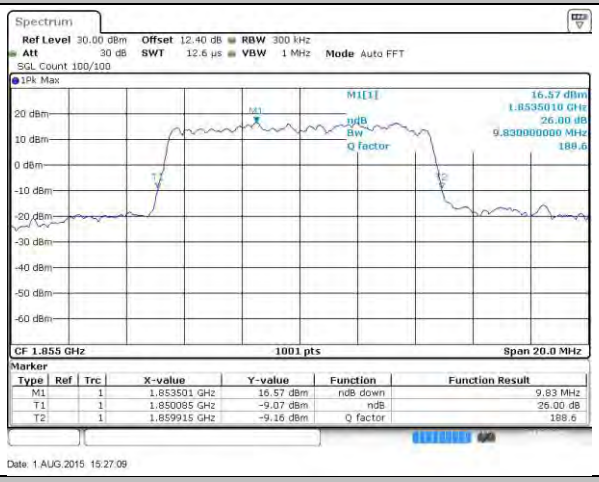



### Highest Channel / 5MHz / 16QAM

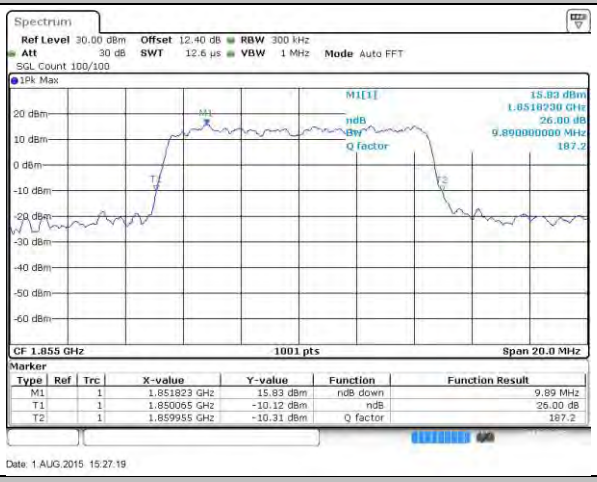


## LTE Band 25

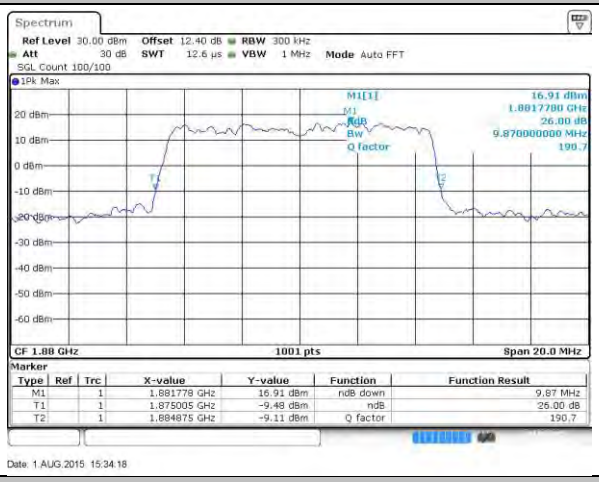
### Lowest Channel / 10MHz / QPSK



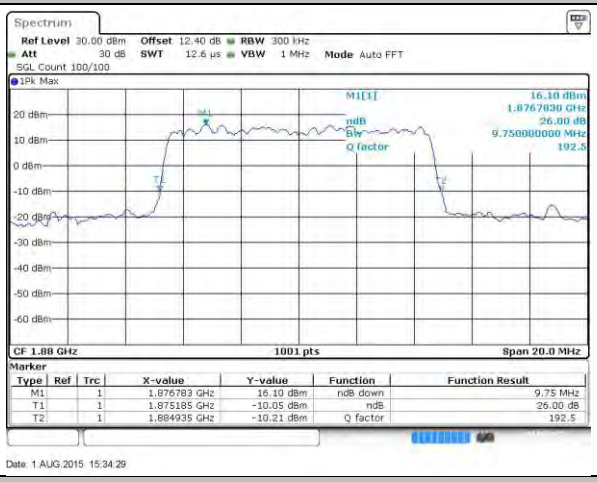

### Lowest Channel / 10MHz / 16QAM



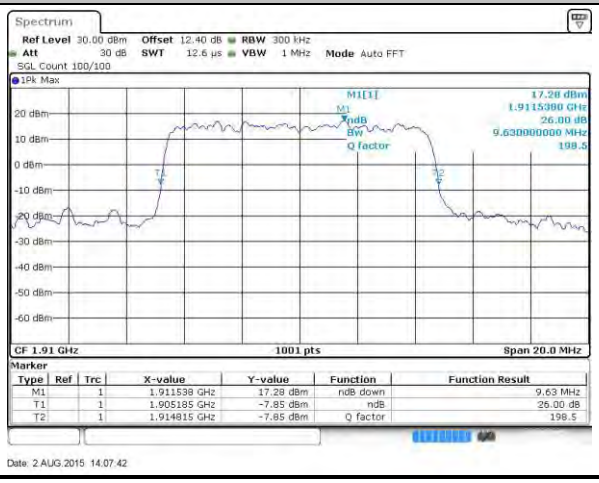

### Middle Channel / 10MHz / QPSK



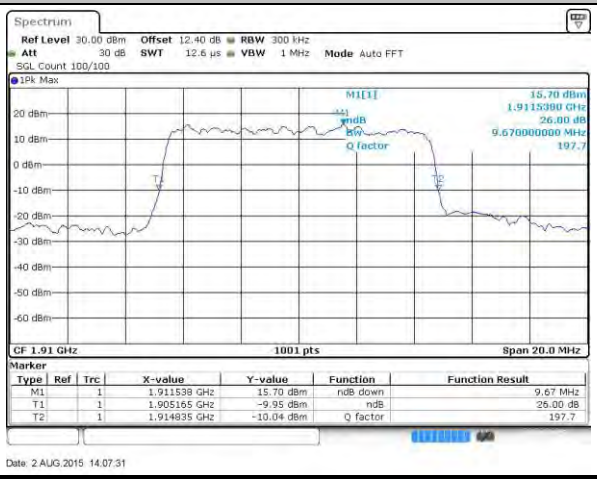

### Middle Channel / 10MHz / 16QAM




### Highest Channel / 10MHz / QPSK

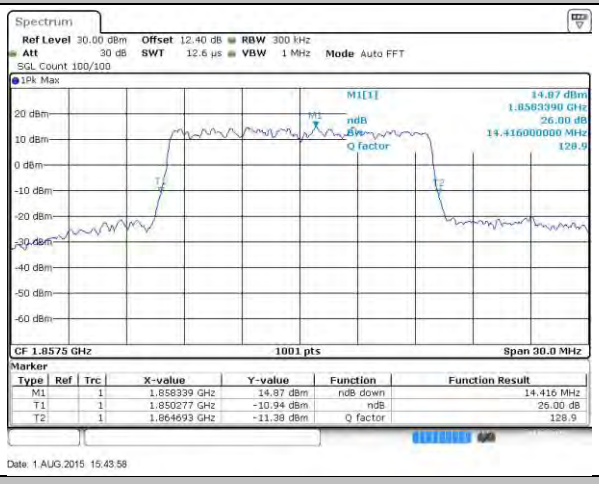



### Highest Channel / 10MHz / 16QAM

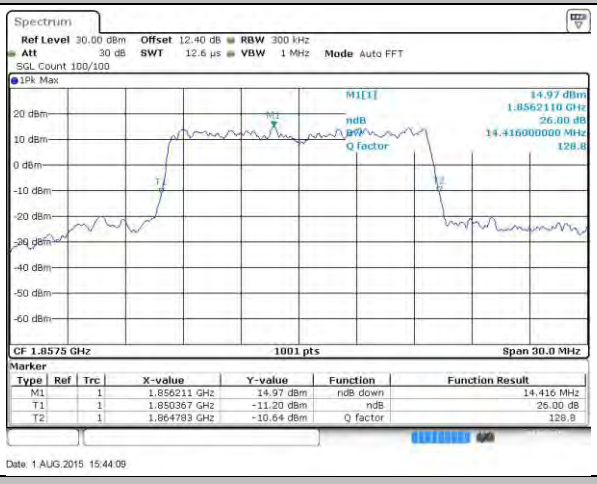


## LTE Band 25

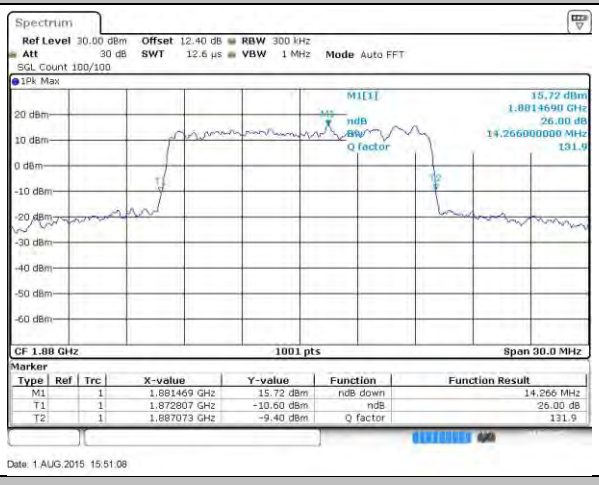
### Lowest Channel / 15MHz / QPSK



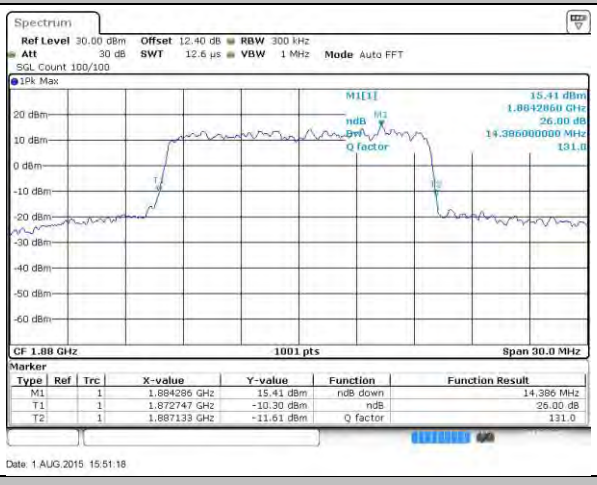

### Lowest Channel / 15MHz / 16QAM



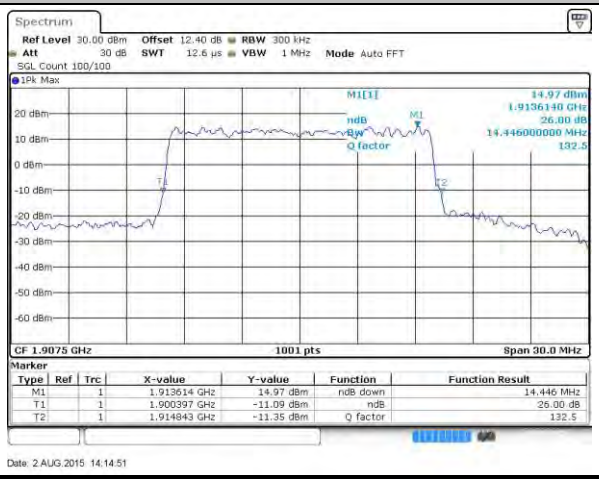

### Middle Channel / 15MHz / QPSK



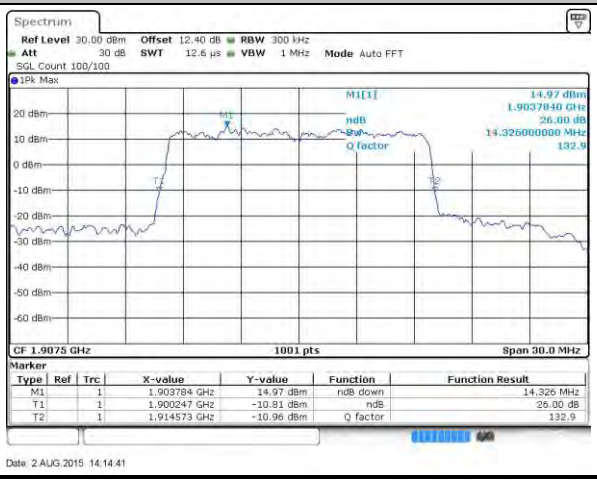

### Middle Channel / 15MHz / 16QAM




### Highest Channel / 15MHz / QPSK

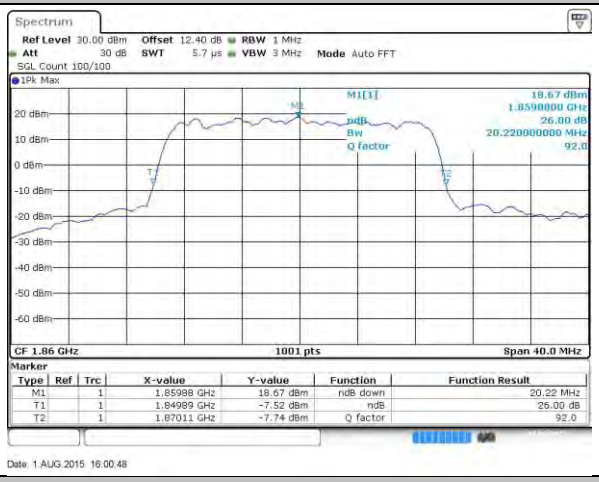



### Highest Channel / 15MHz / 16QAM

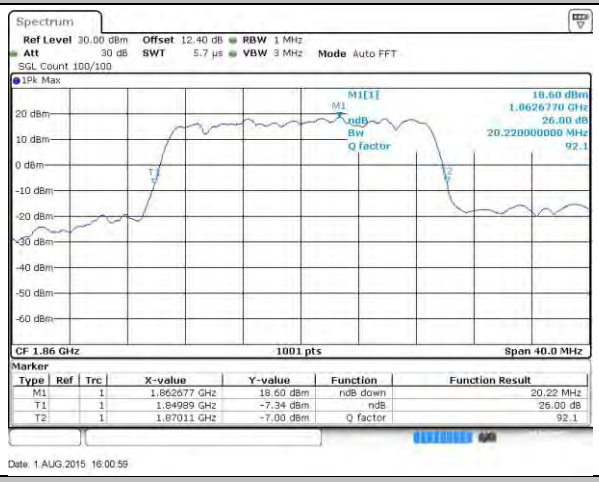


## LTE Band 25

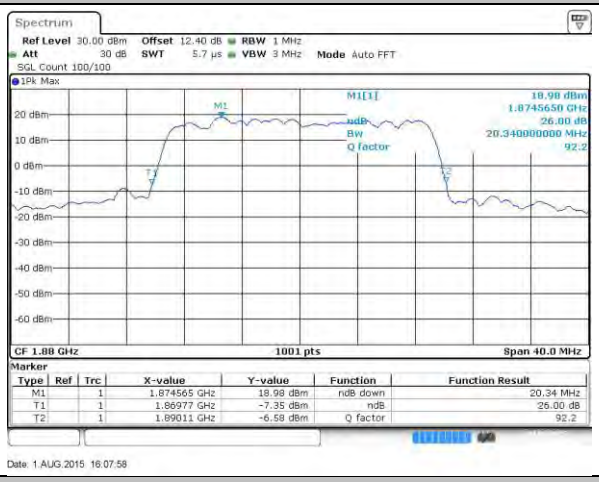
### Lowest Channel / 20MHz / QPSK



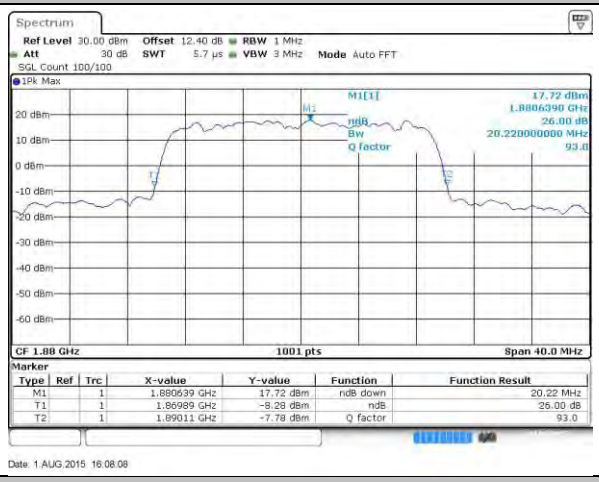

### Lowest Channel / 20MHz / 16QAM



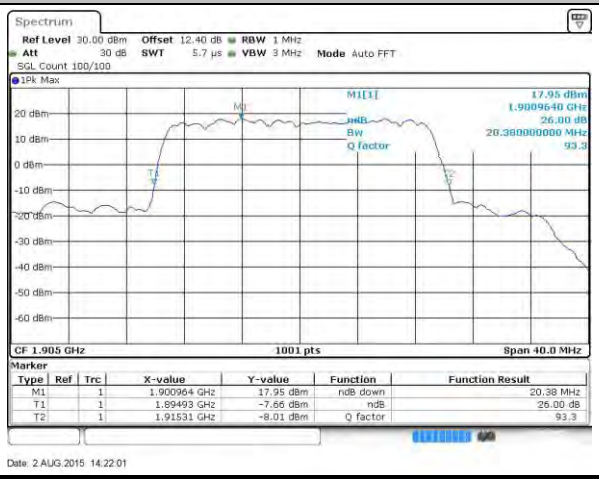

### Middle Channel / 20MHz / QPSK



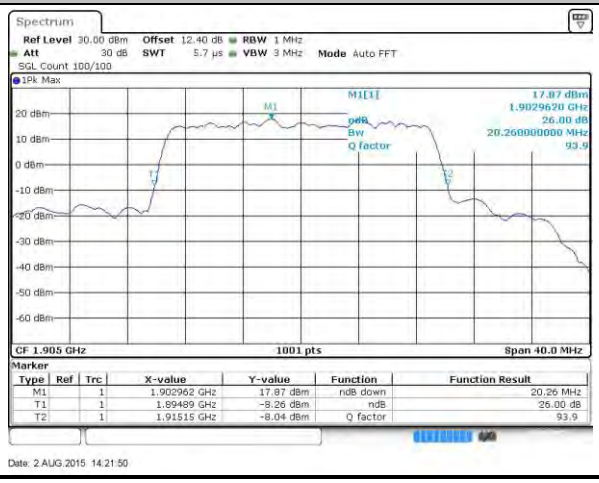

### Middle Channel / 20MHz / 16QAM




### Highest Channel / 20MHz / QPSK




### Highest Channel / 20MHz / 16QAM

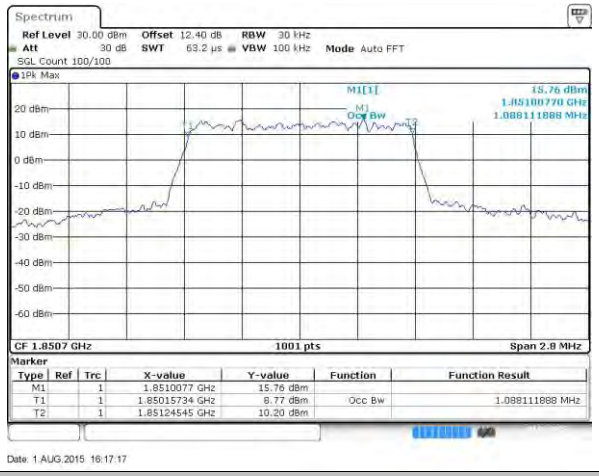


# Occupied Bandwidth

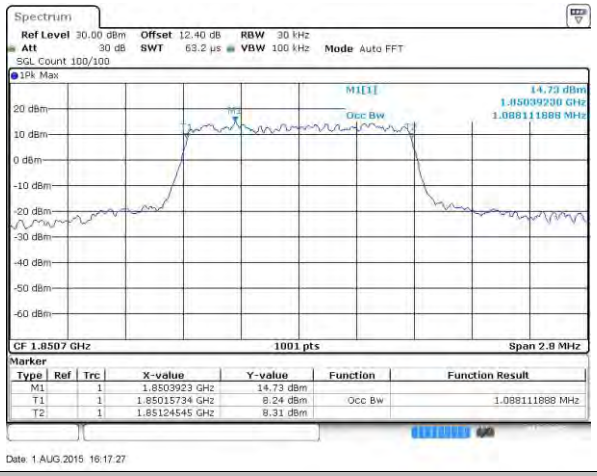
| Mode | LTE Band 25 : 99%OBW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.09 | 1.09 | 2.71 | 2.73 | 4.5 | 4.52 | 9.03 | 8.99 | 13.52 | 13.46 | 18.34 | 18.34 |
| Middle CH | 1.09 | 1.09 | 2.73 | 2.71 | 4.49 | 4.5 | 9.07 | 9.05 | 13.43 | 13.49 | 18.34 | 18.42 |
| Highest CH | 1.09 | 1.08 | 2.72 | 2.73 | 4.5 | 4.49 | 9.05 | 9.03 | 13.46 | 13.46 | 18.3 | 18.46 |

## LTE Band 25

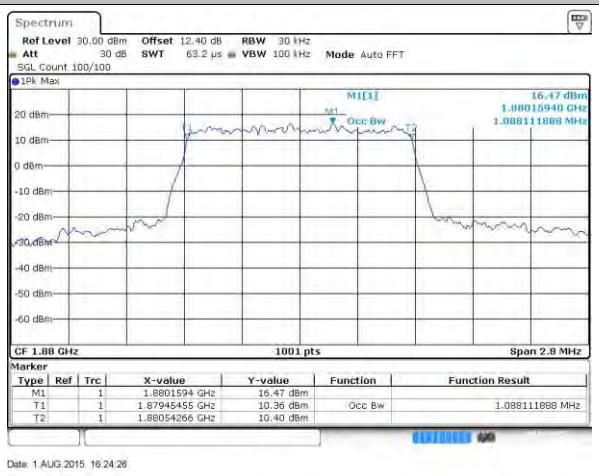
### Lowest Channel / 1.4MHz / QPSK



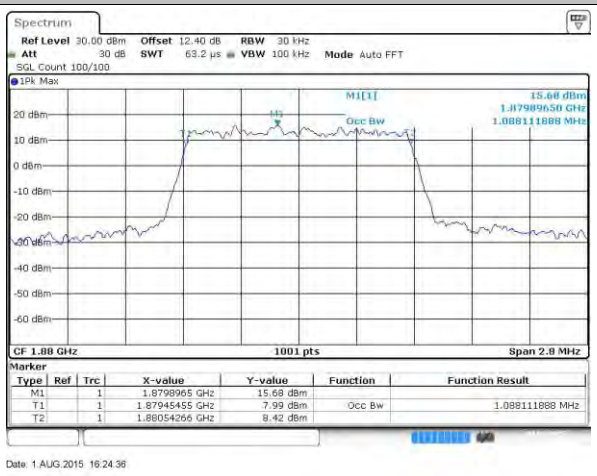

### Lowest Channel / 1.4MHz / 16QAM



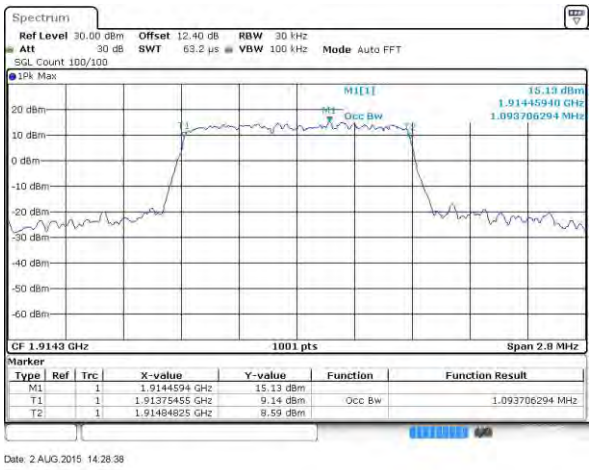

### Middle Channel / 1.4MHz / QPSK



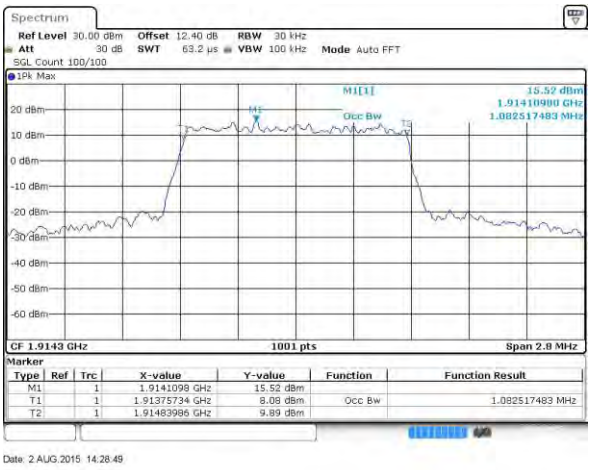

### Middle Channel / 1.4MHz / 16QAM




### Highest Channel / 1.4MHz / QPSK

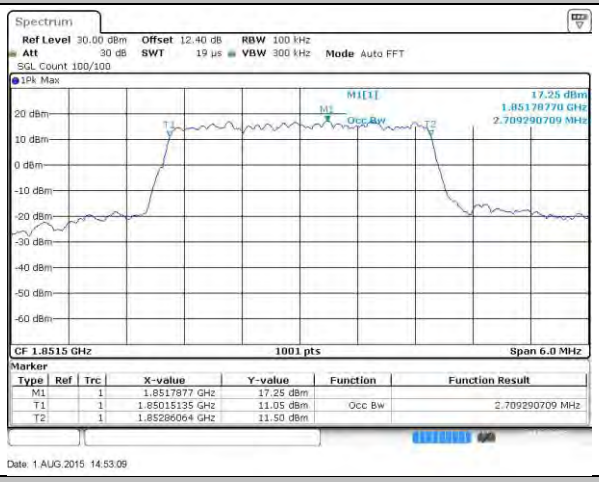



### Highest Channel / 1.4MHz / 16QAM

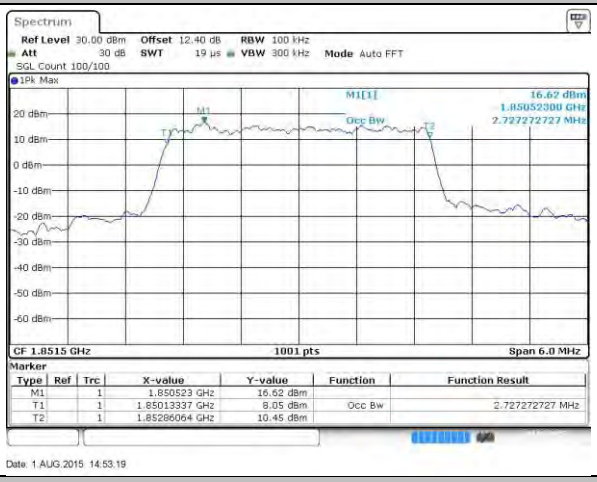


## LTE Band 25

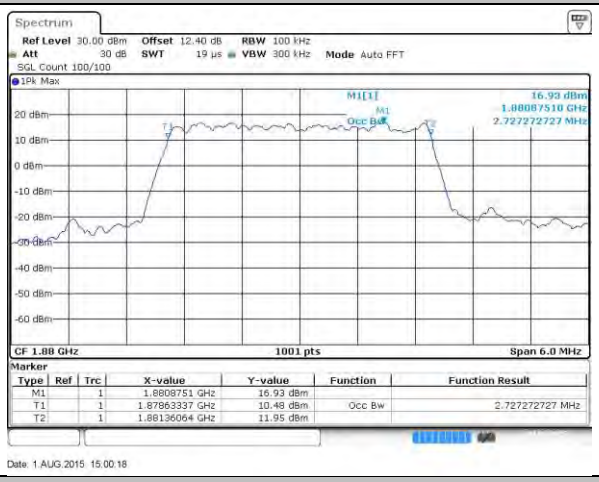
### Lowest Channel / 3MHz / QPSK



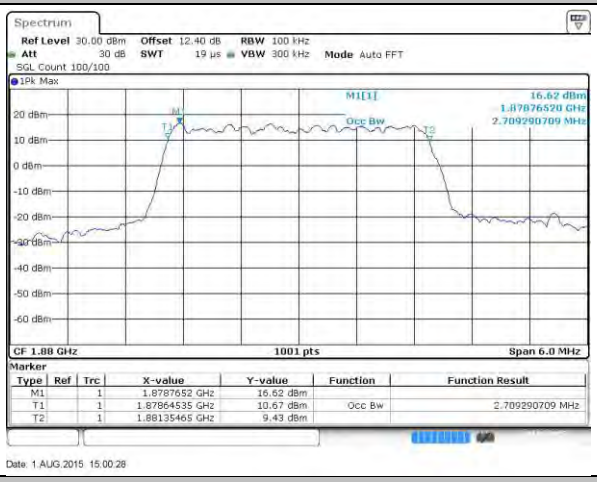

### Lowest Channel / 3MHz / 16QAM



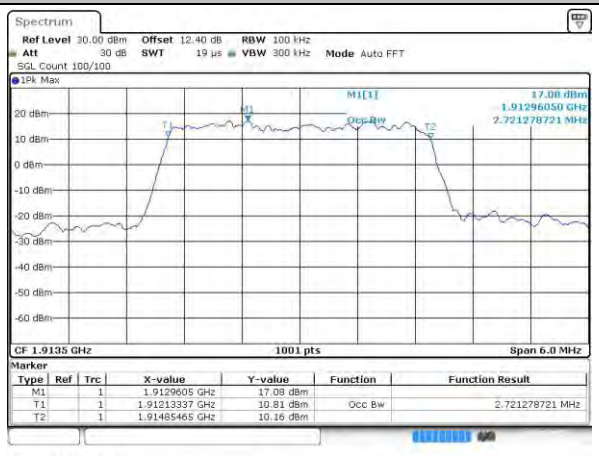

### Middle Channel / 3MHz / QPSK



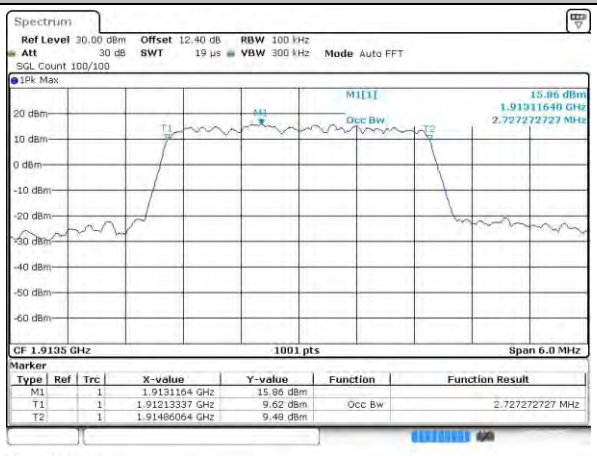

### Middle Channel / 3MHz / 16QAM




### Highest Channel / 3MHz / QPSK

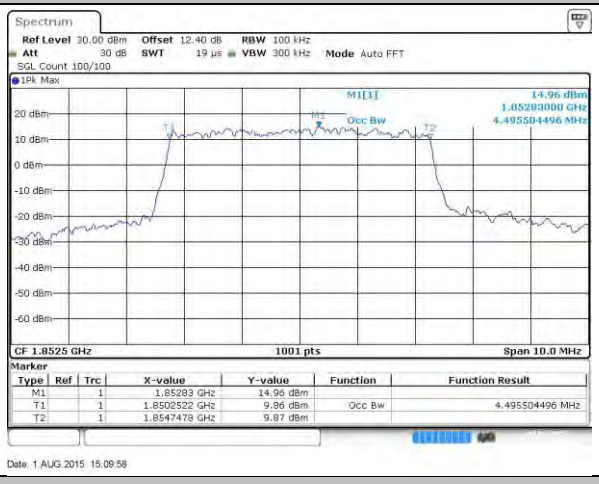



### Highest Channel / 3MHz / 16QAM

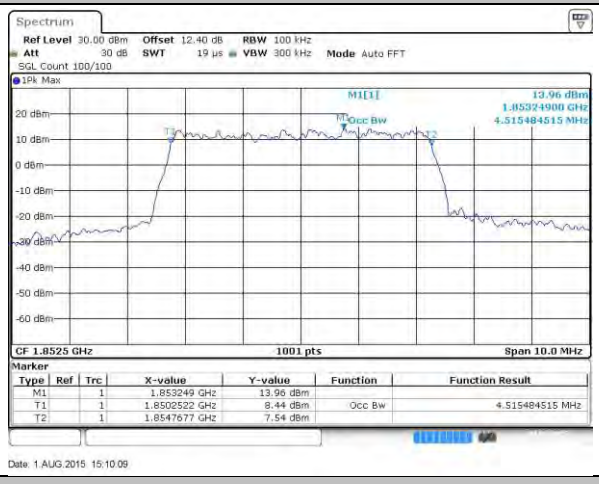


## LTE Band 25

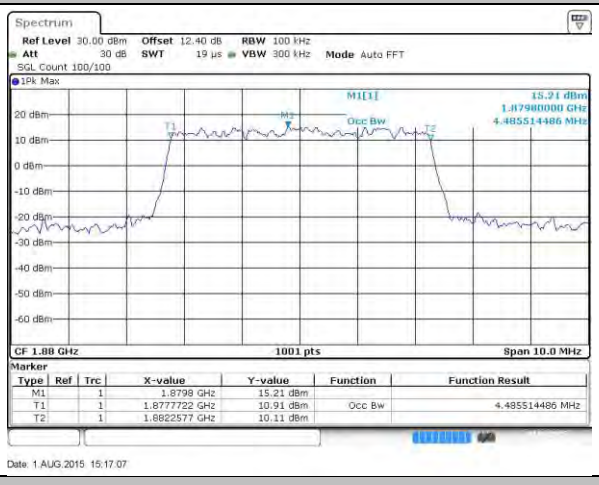
### Lowest Channel / 5MHz / QPSK



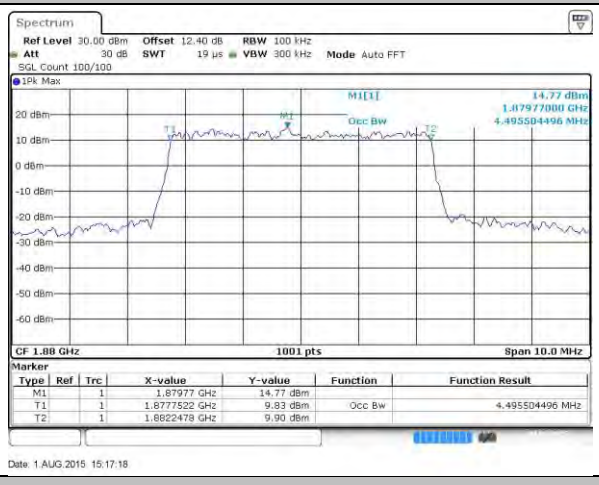

### Lowest Channel / 5MHz / 16QAM



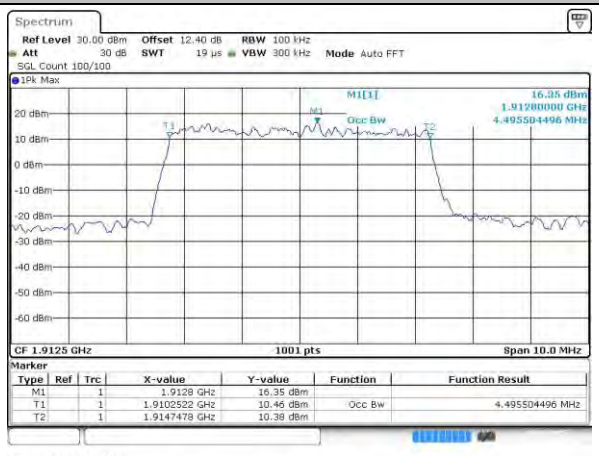

### Middle Channel / 5MHz / QPSK



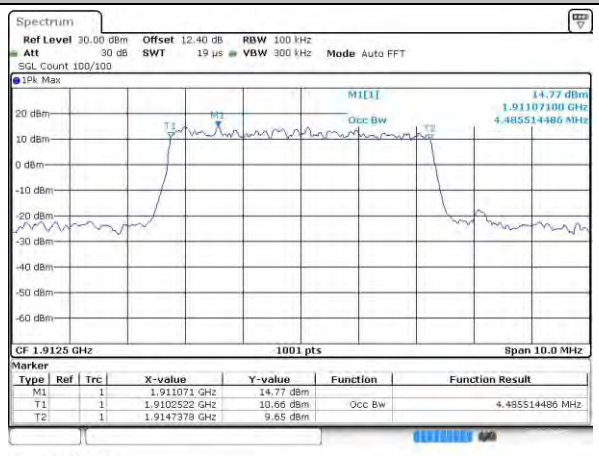

### Middle Channel / 5MHz / 16QAM




### Highest Channel / 5MHz / QPSK

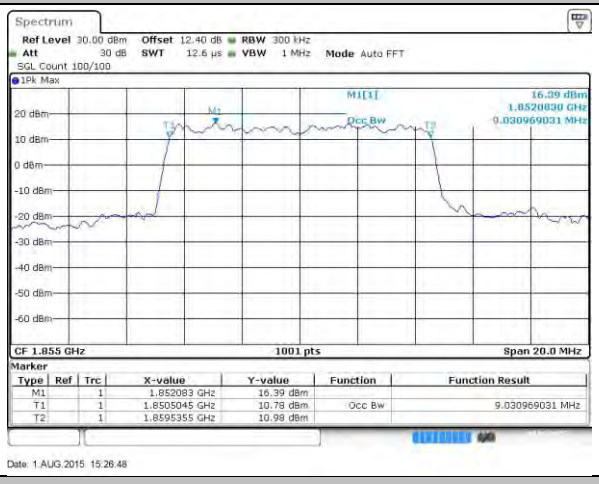



### Highest Channel / 5MHz / 16QAM

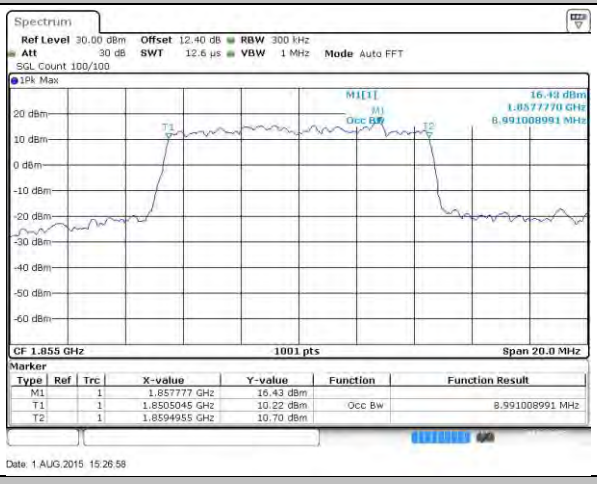


## LTE Band 25

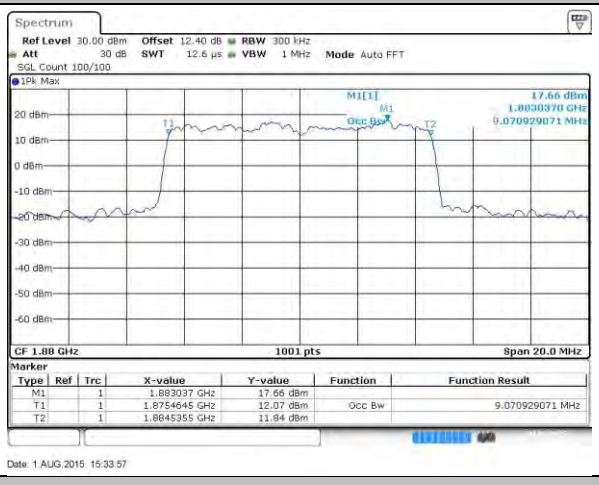
### Lowest Channel / 10MHz / QPSK



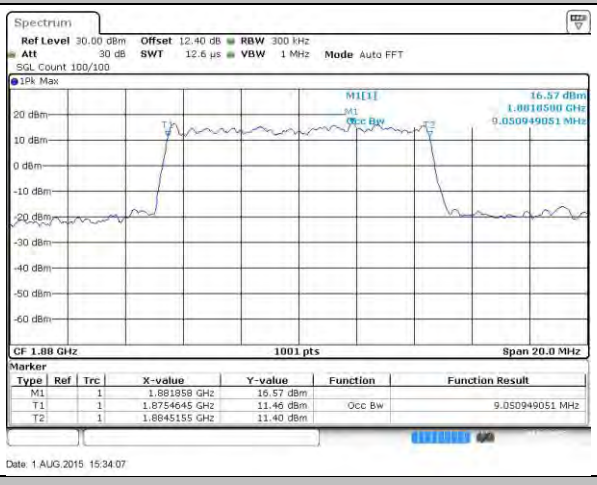

### Lowest Channel / 10MHz / 16QAM



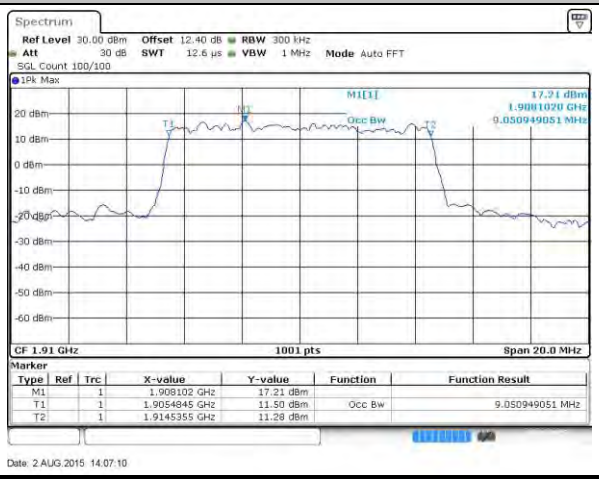

### Middle Channel / 10MHz / QPSK



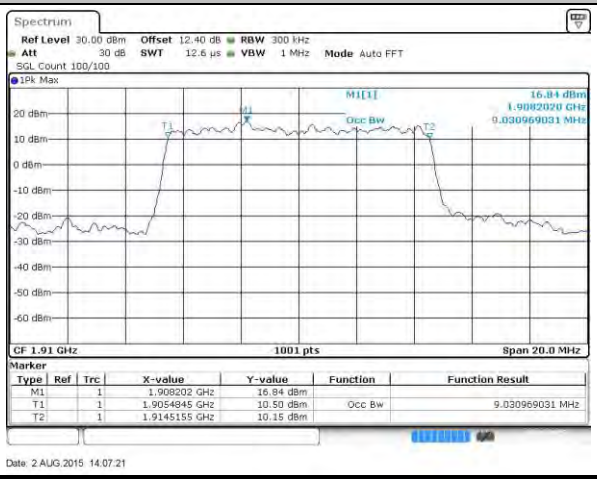

### Middle Channel / 10MHz / 16QAM




### Highest Channel / 10MHz / QPSK

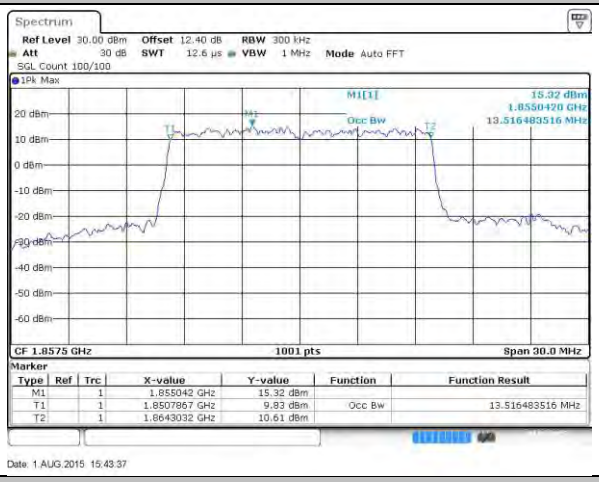



### Highest Channel / 10MHz / 16QAM

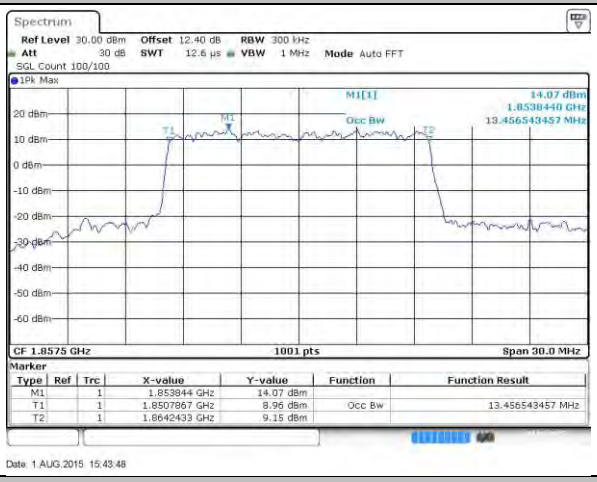


## LTE Band 25

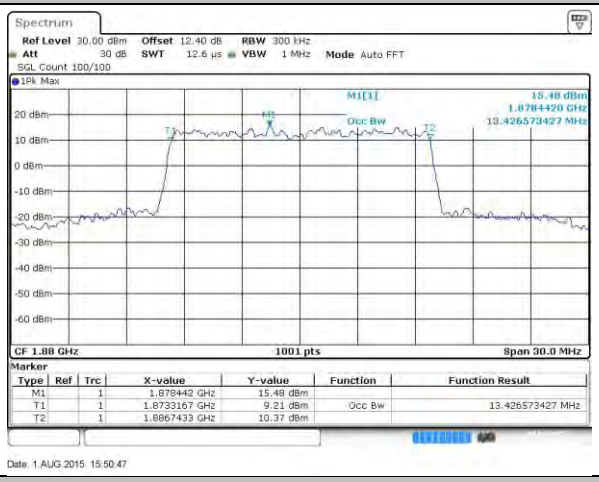
### Lowest Channel / 15MHz / QPSK



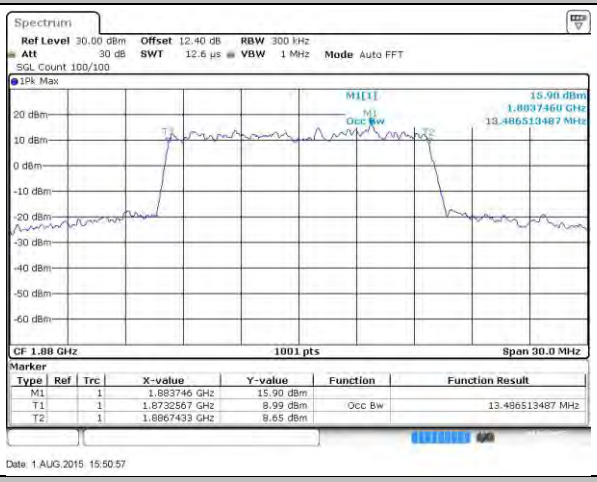

### Lowest Channel / 15MHz / 16QAM



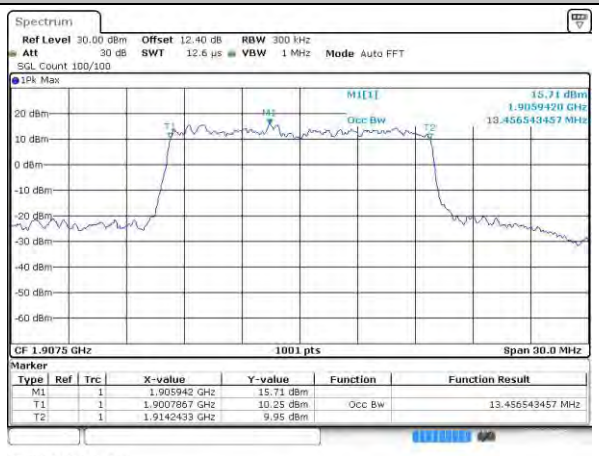

### Middle Channel / 15MHz / QPSK



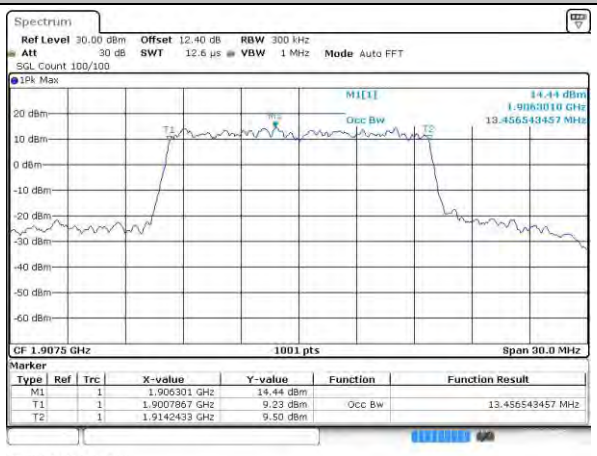

### Middle Channel / 15MHz / 16QAM




### Highest Channel / 15MHz / QPSK

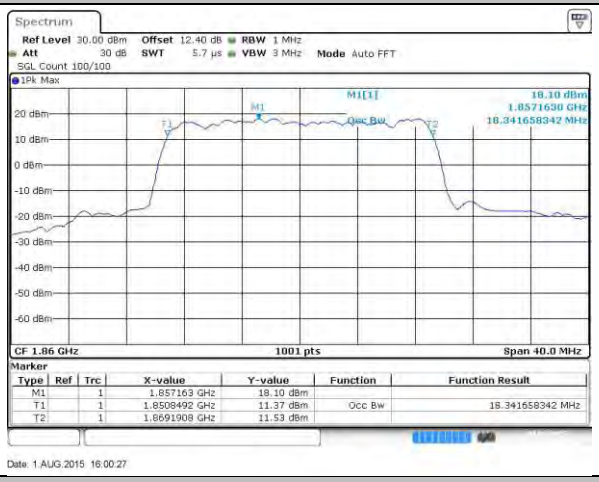



### Highest Channel / 15MHz / 16QAM

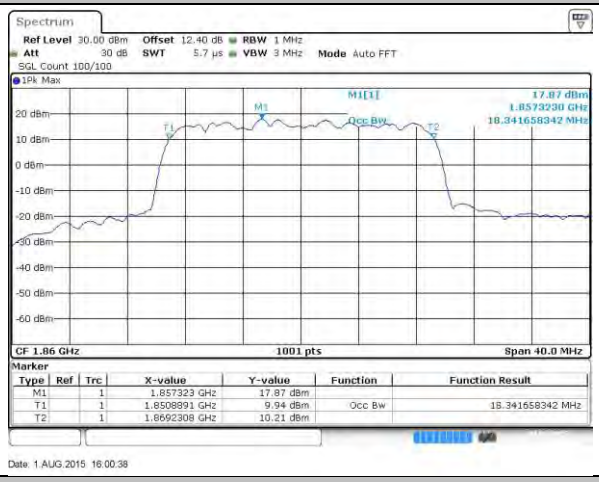


## LTE Band 25

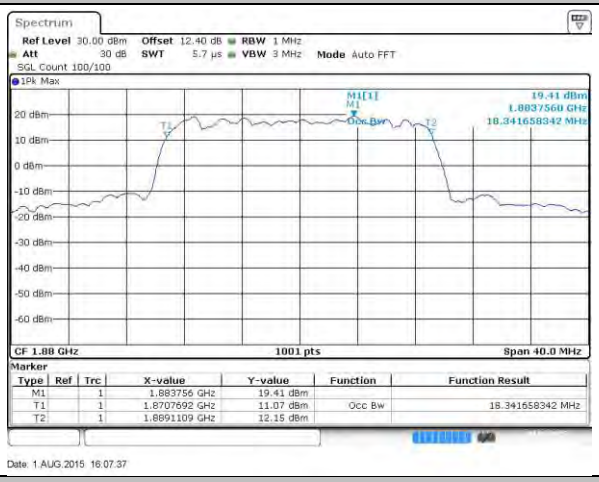
### Lowest Channel / 20MHz / QPSK



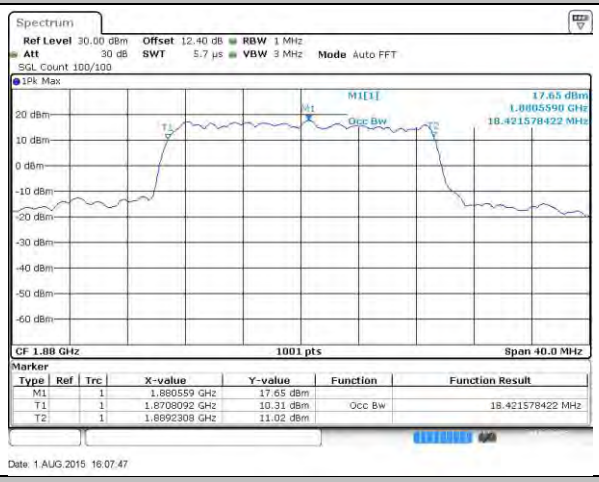

### Lowest Channel / 20MHz / 16QAM



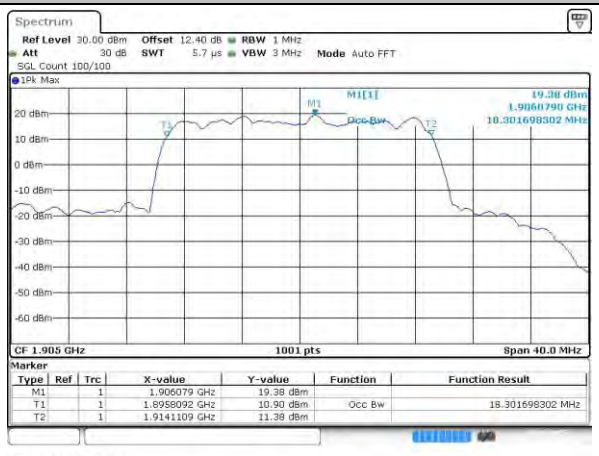

### Middle Channel / 20MHz / QPSK



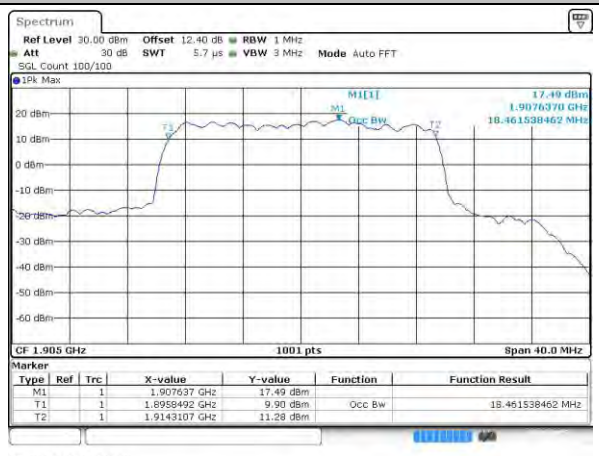

### Middle Channel / 20MHz / 16QAM



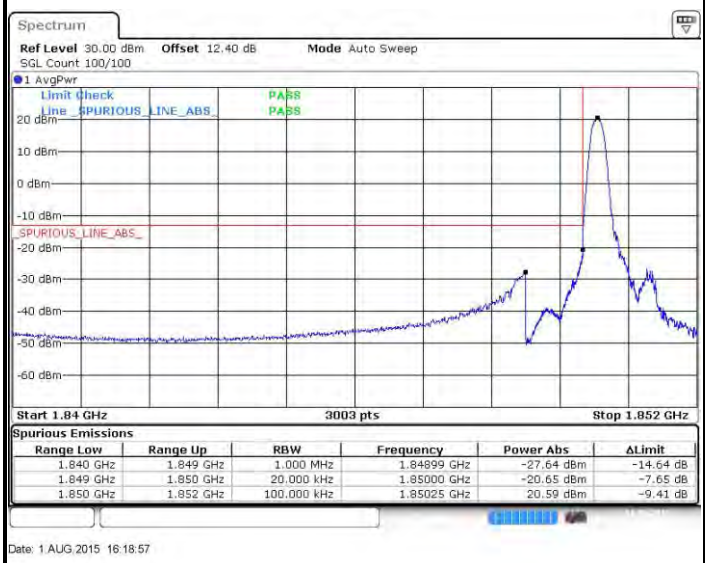
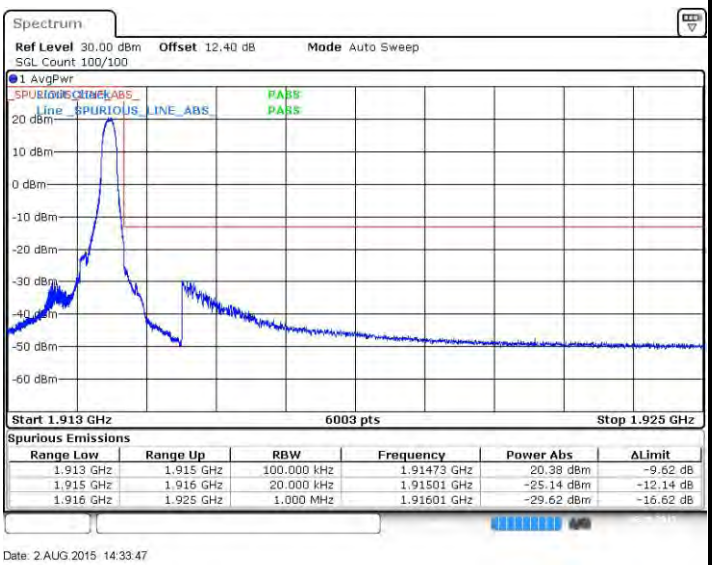
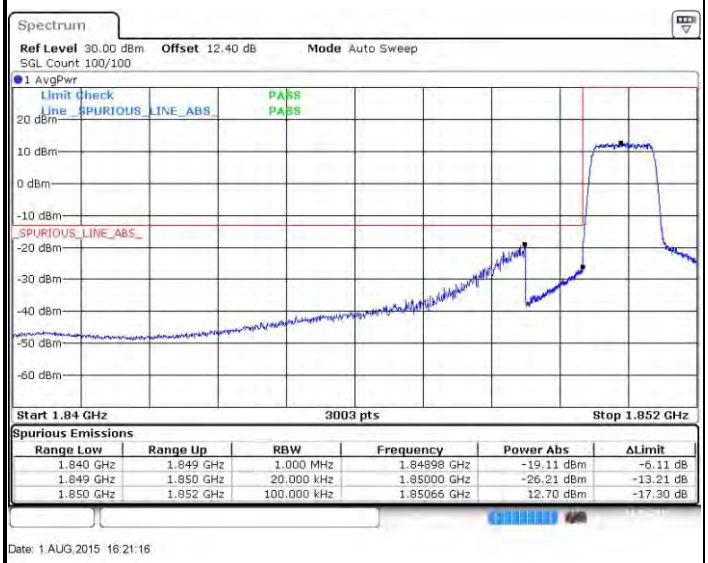
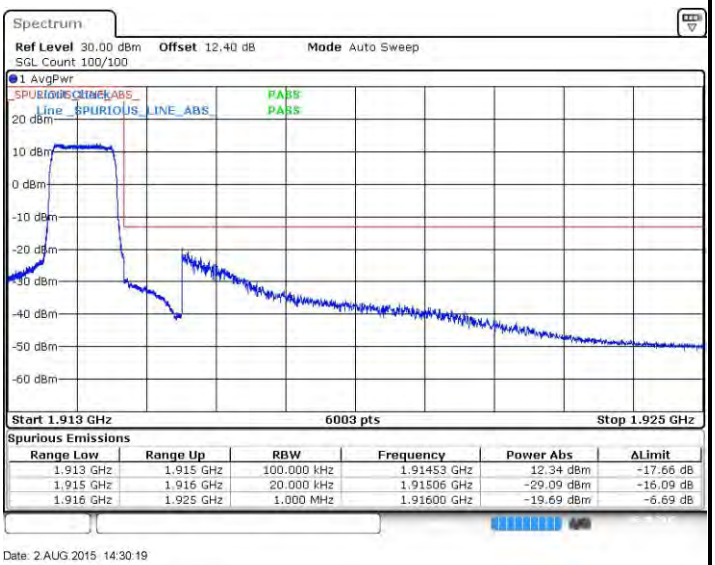

### Highest Channel / 20MHz / QPSK

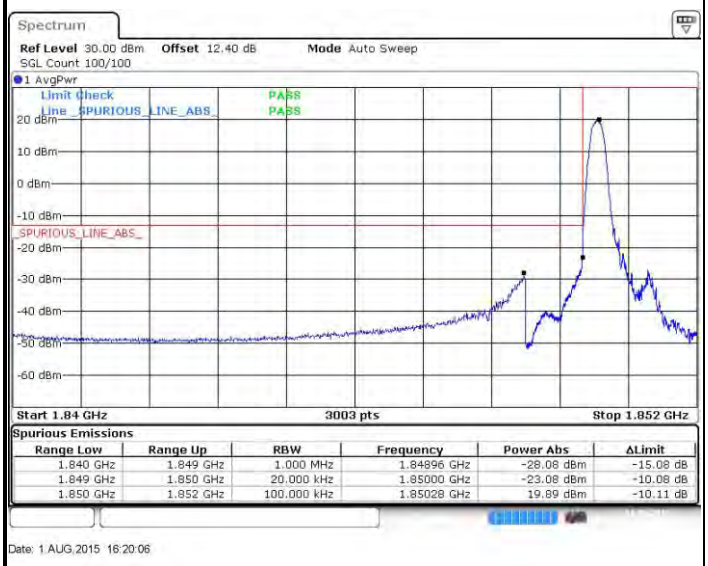
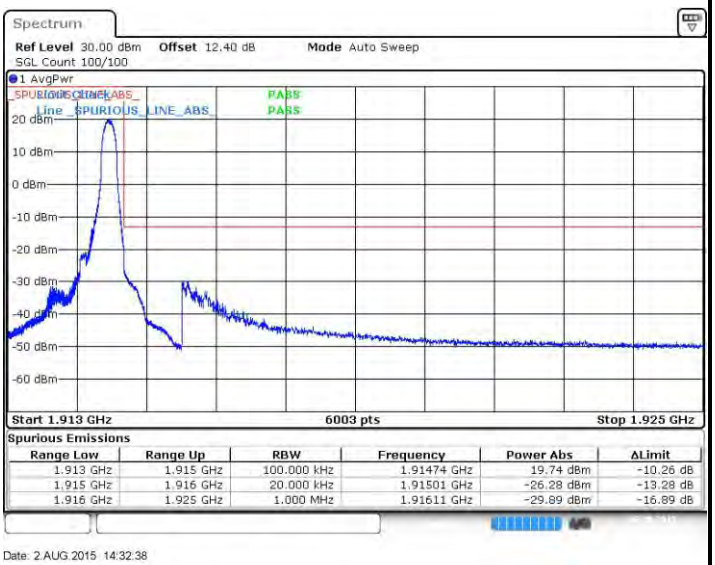
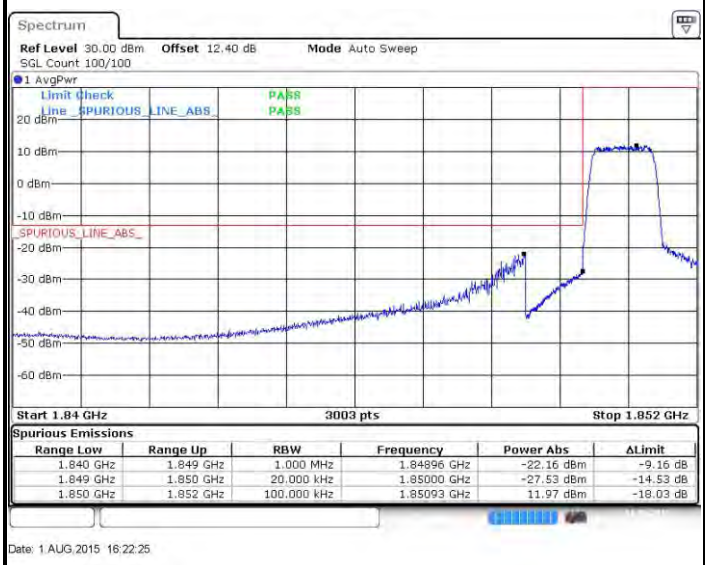
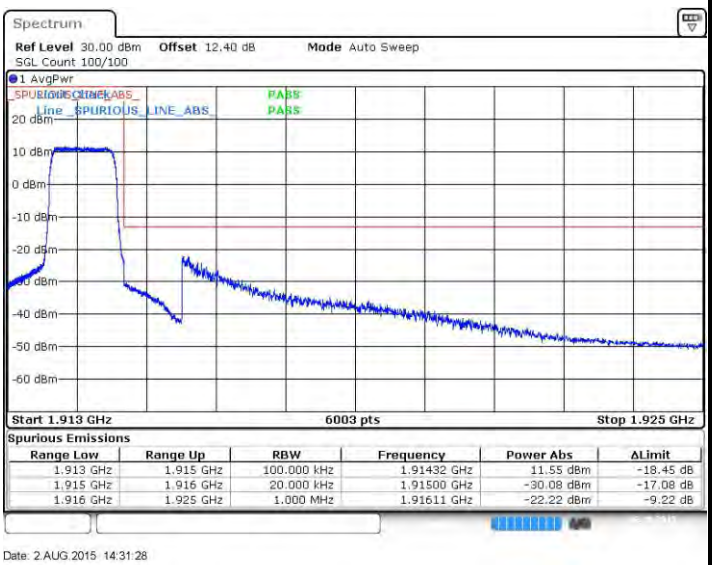


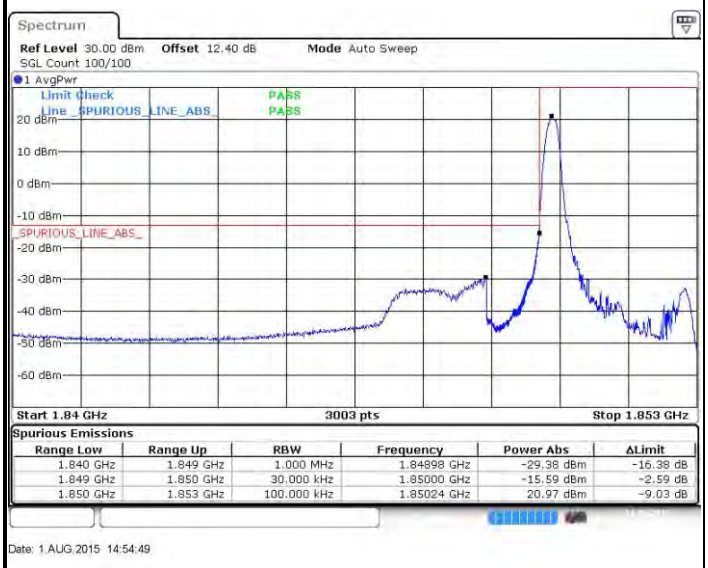
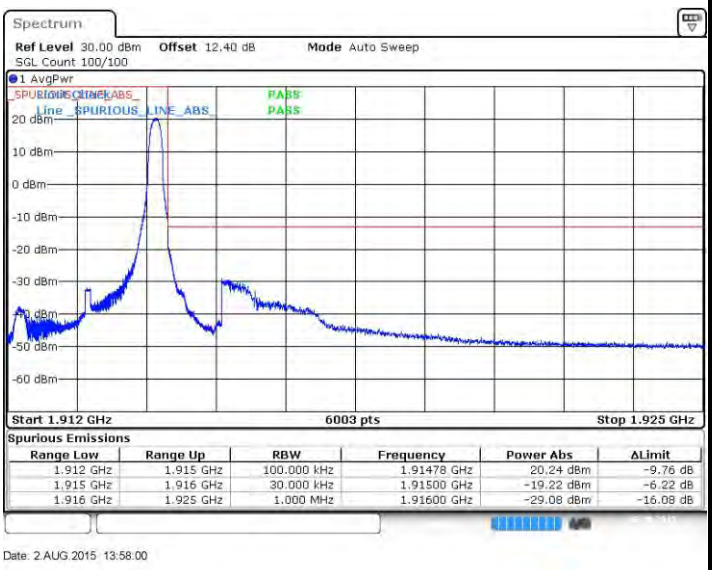
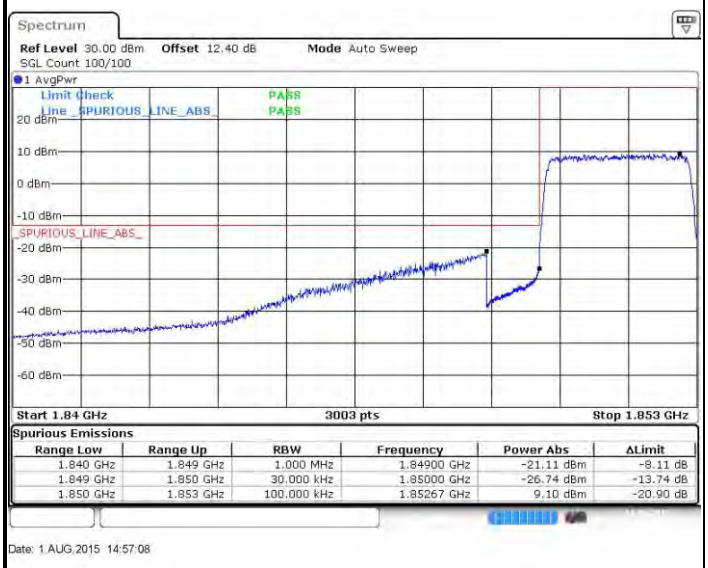
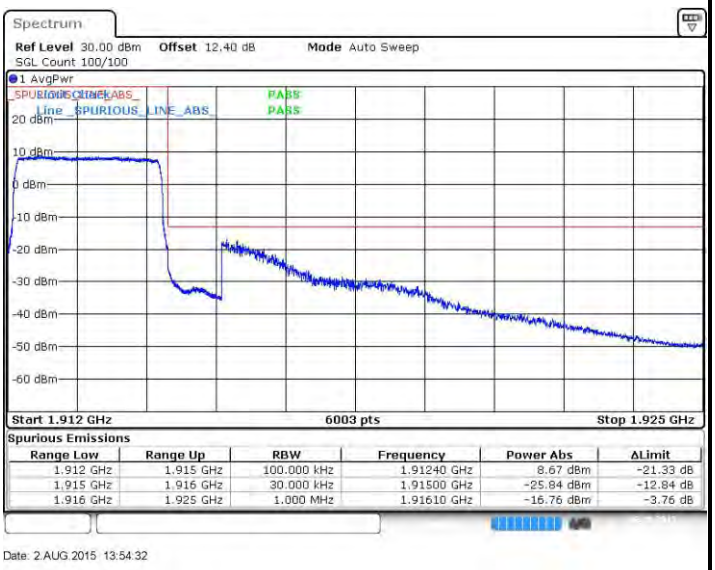

### Highest Channel / 20MHz / 16QAM

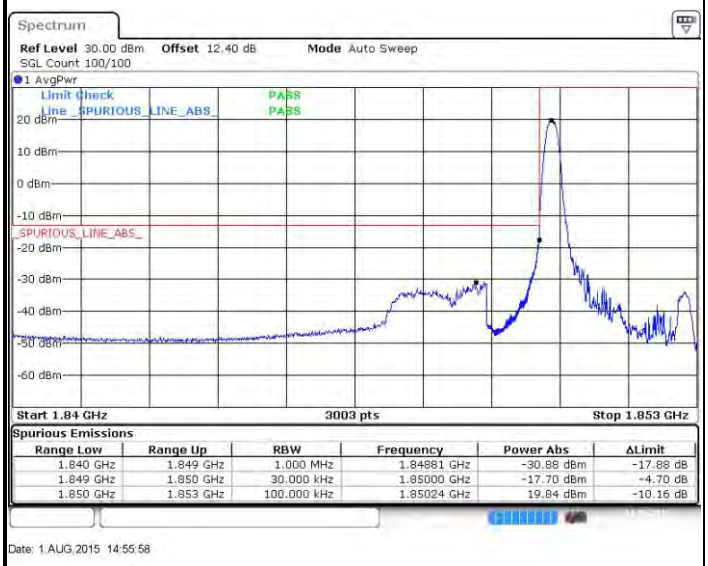
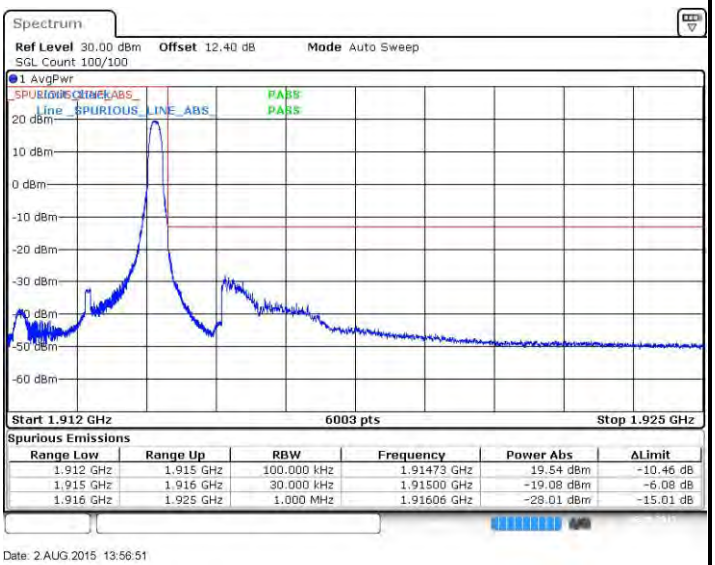
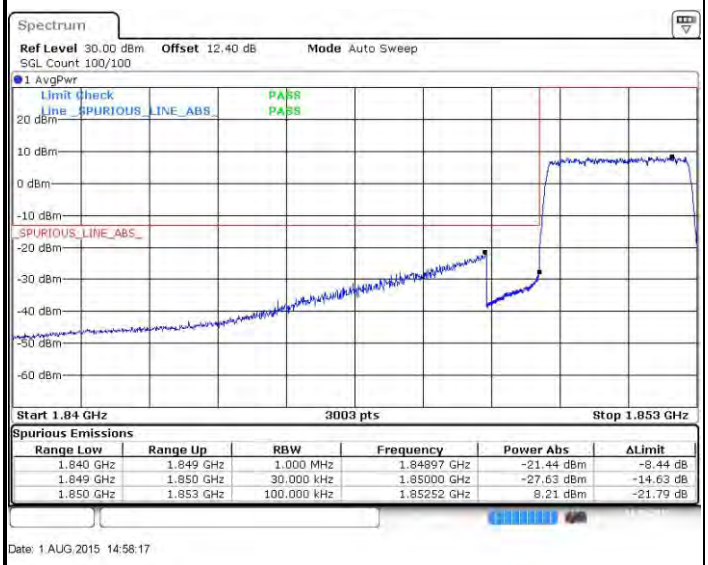
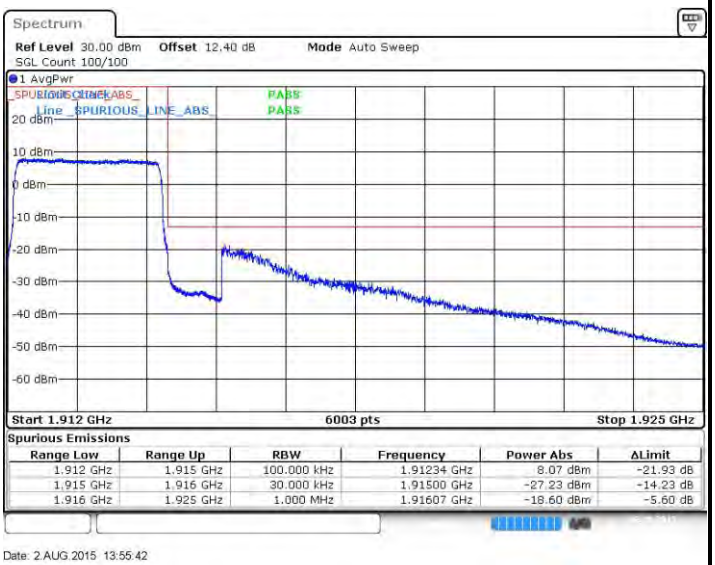


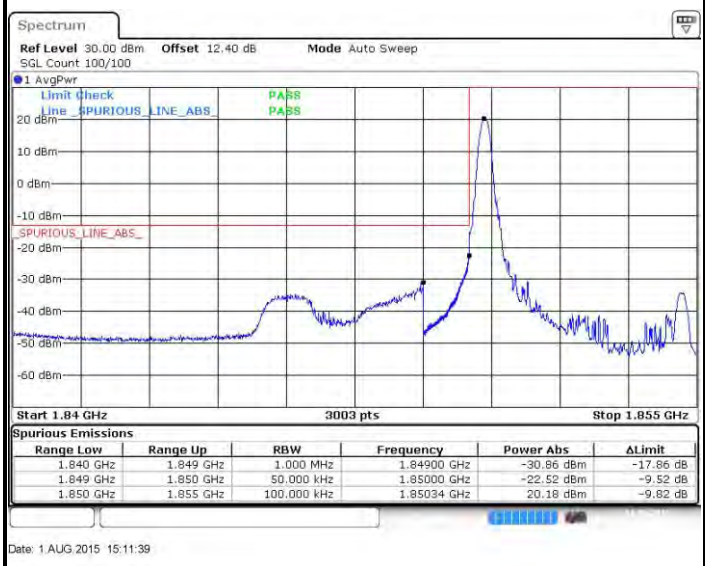
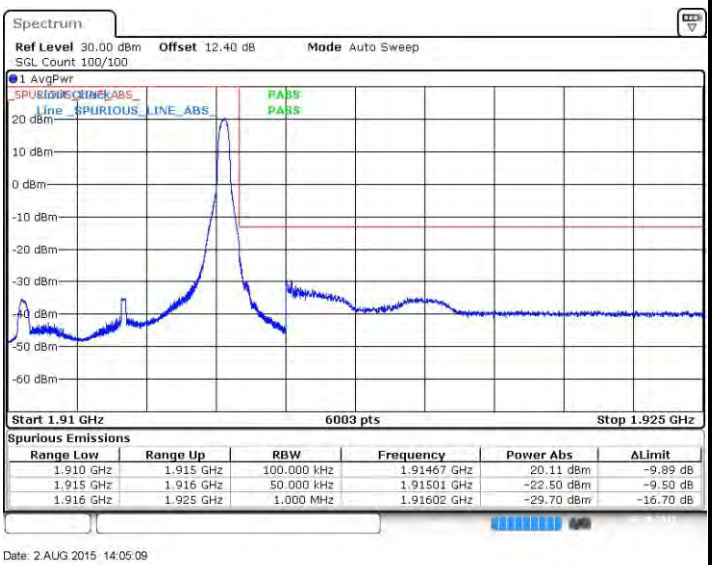
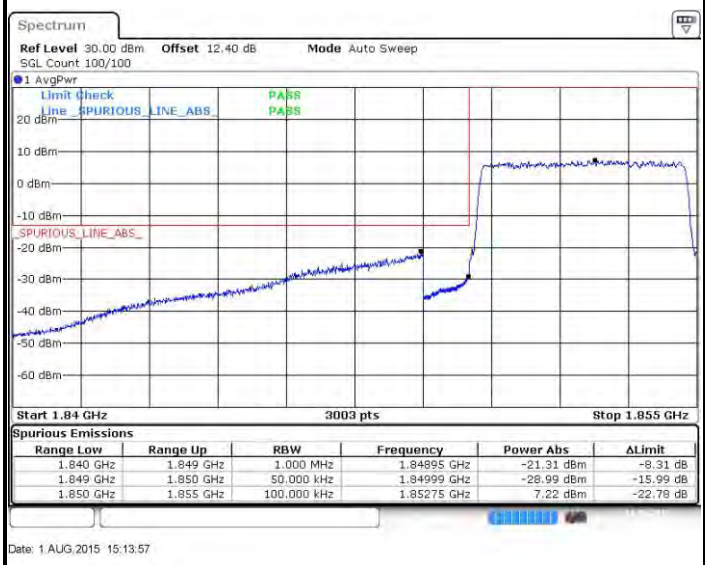
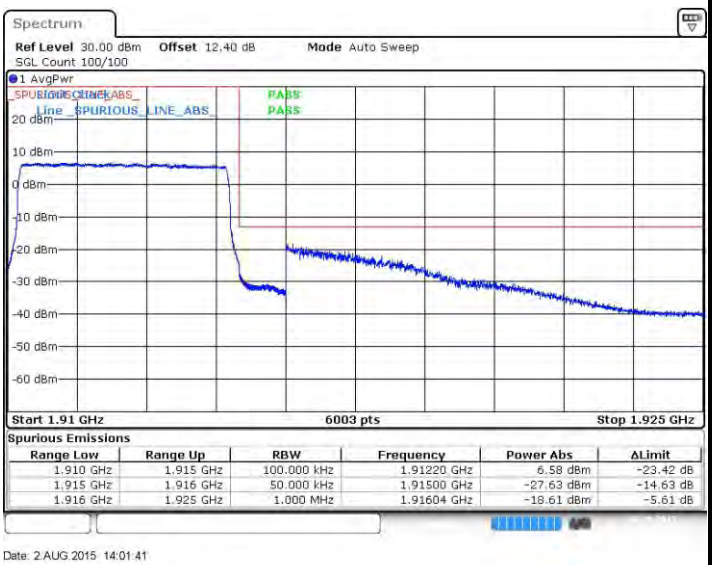
# Conducted Band Edge

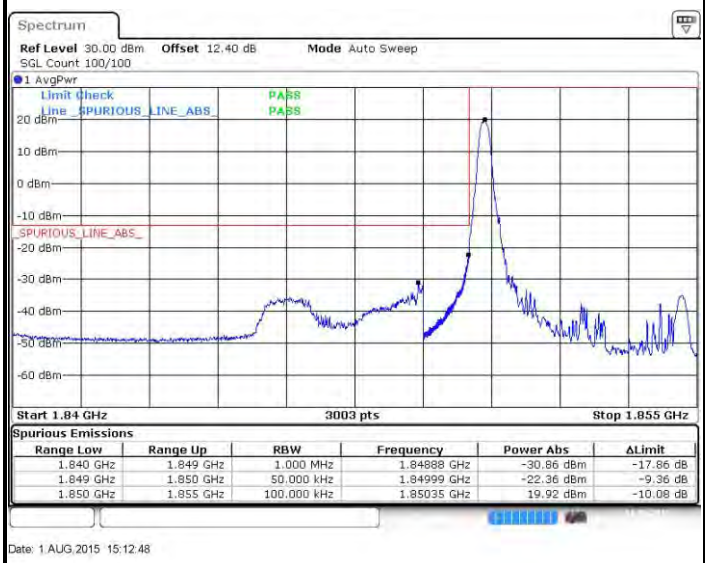
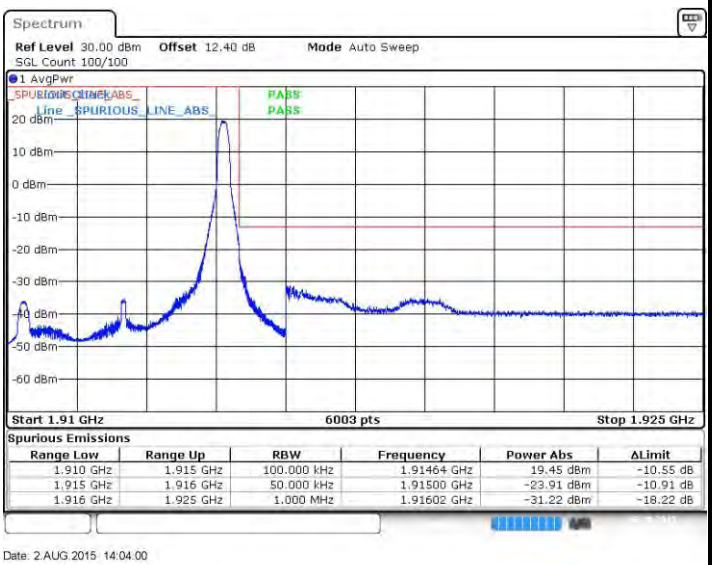
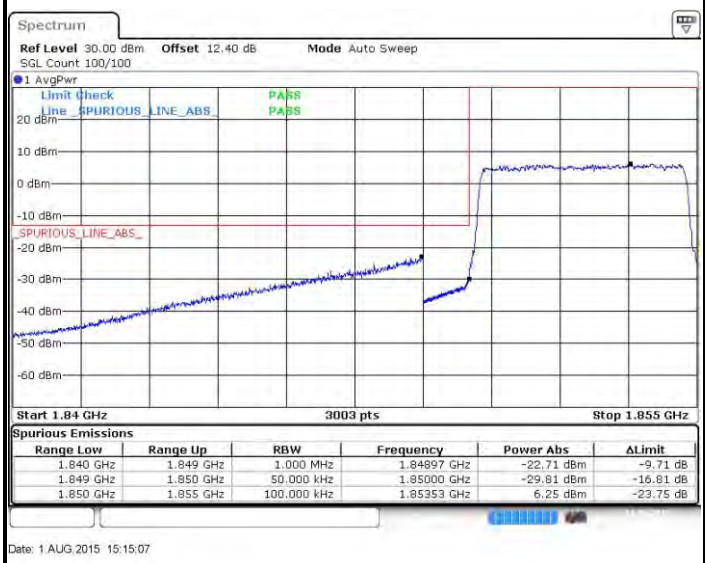
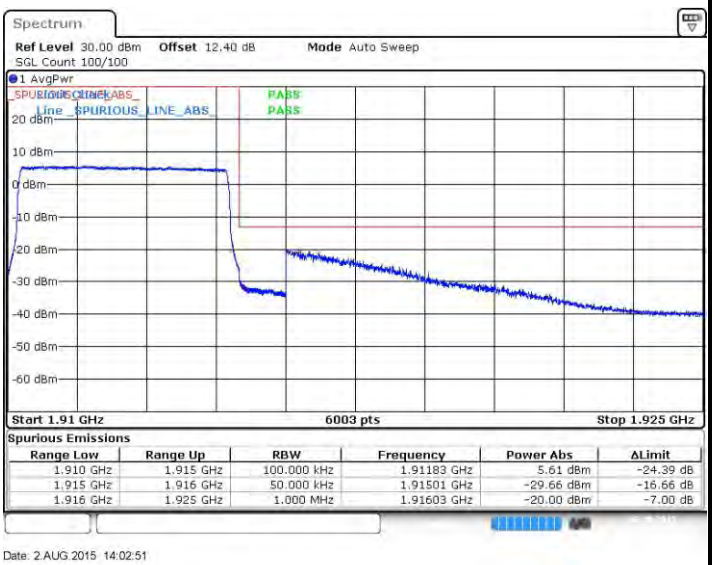
| LTE Band 25 / 1.4MHz / QPSK | |
|---|---|
| **Lowest Band Edge / 1RB** | **Highest Band Edge / 1RB** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

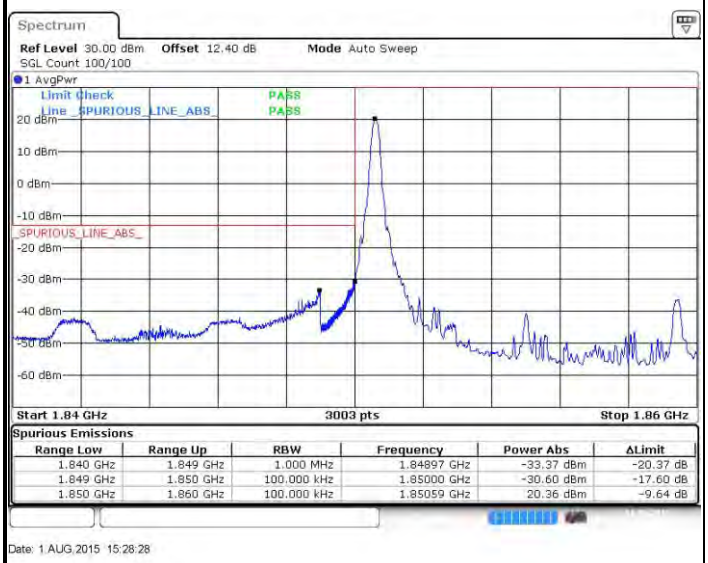
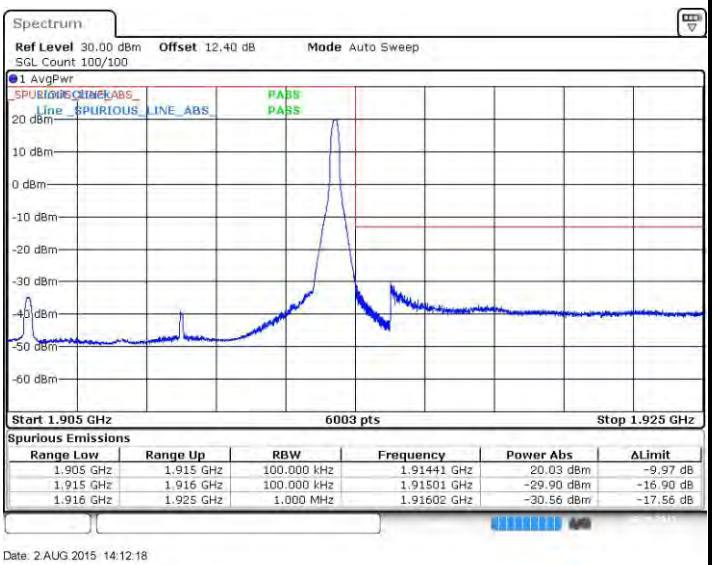
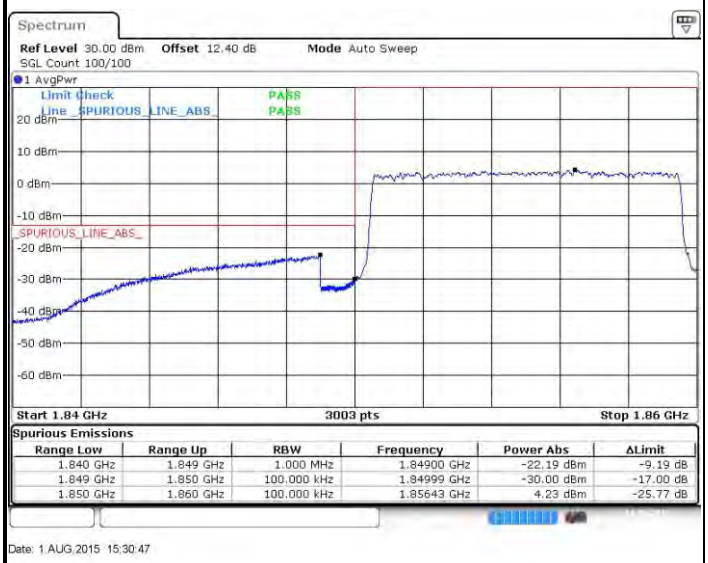
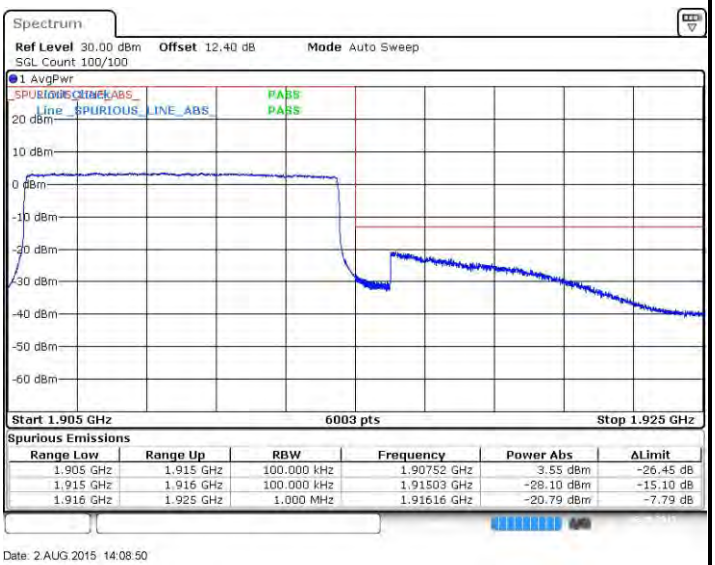
| LTE Band 25 / 1.4MHz / 16QAM | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

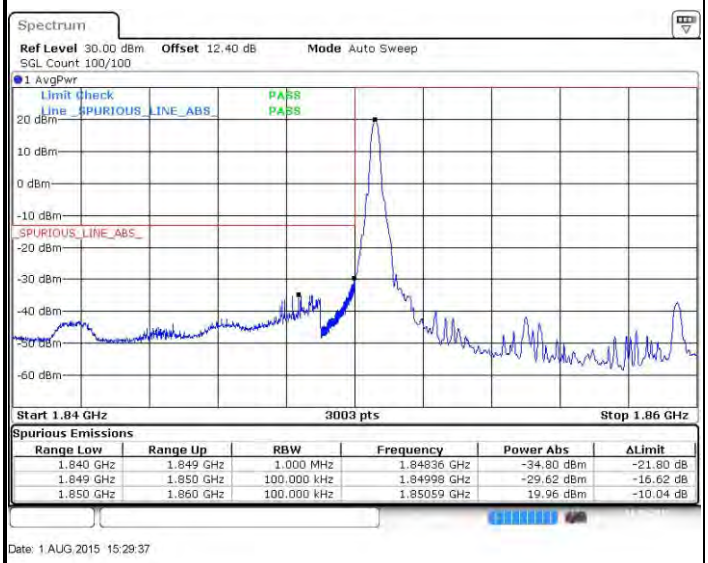
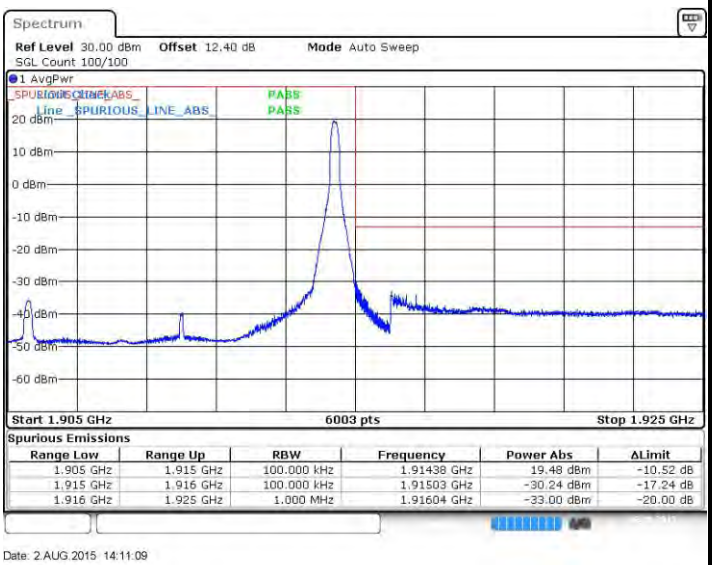
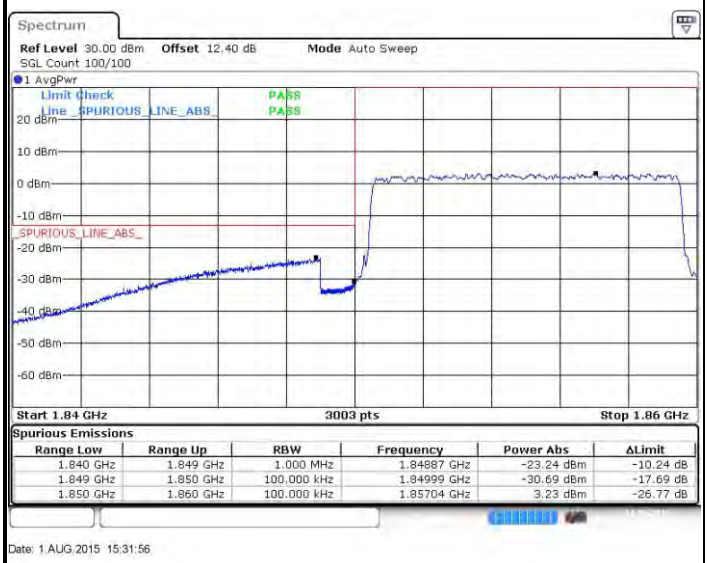
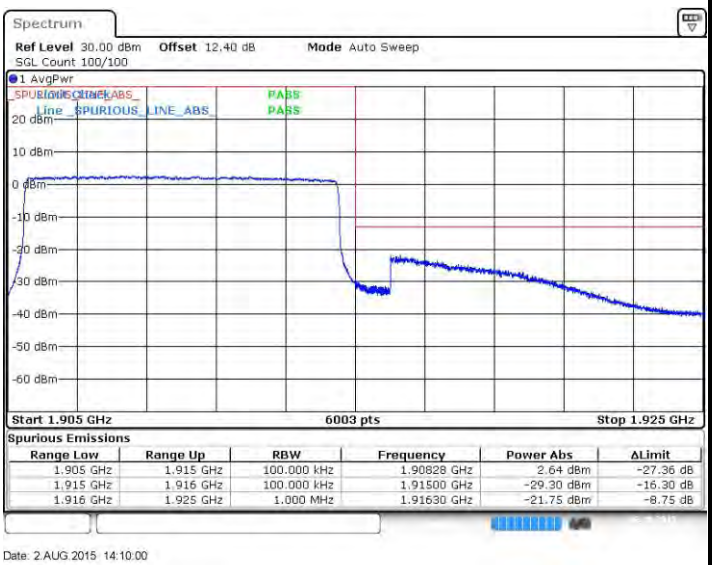
| LTE Band 25 / 3MHz / QPSK | |
|---|---|
| **Lowest Band Edge / 1RB** | **Highest Band Edge / 1 RB** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

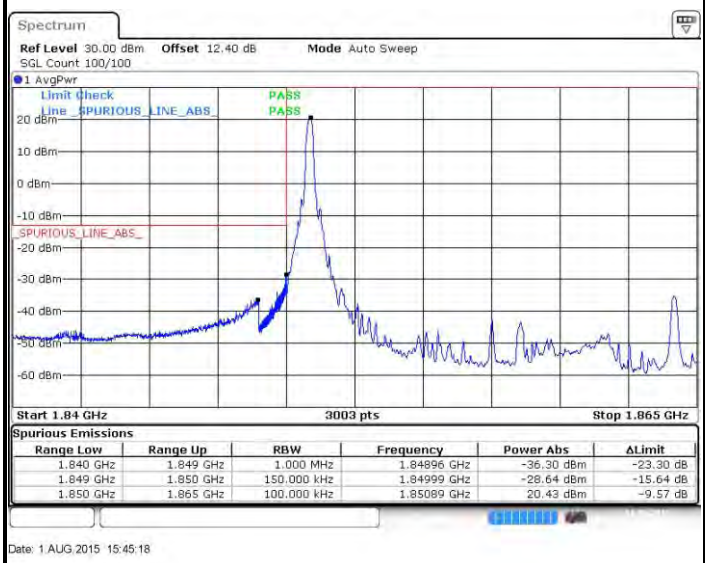
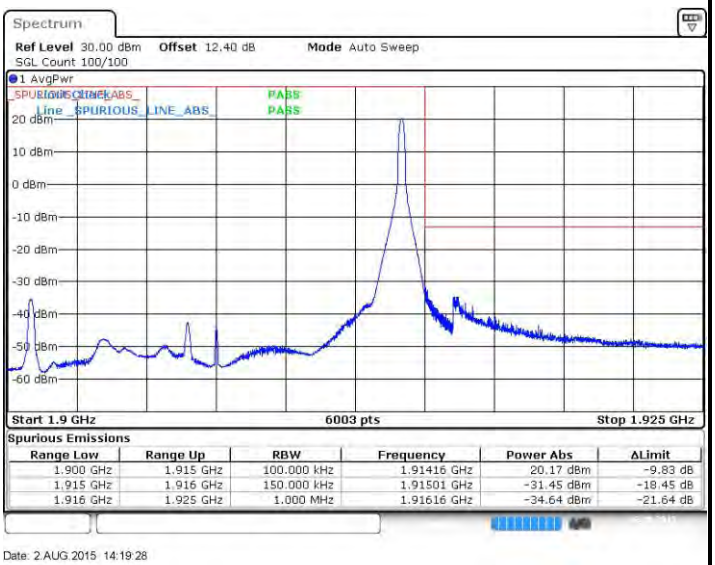
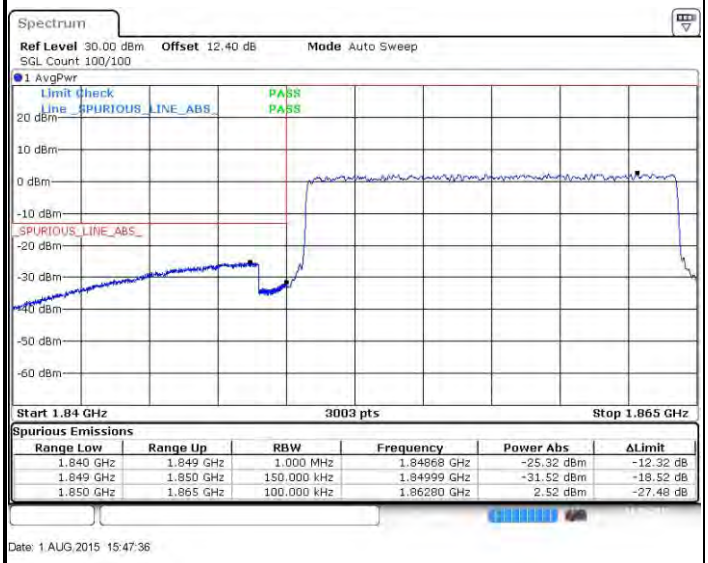
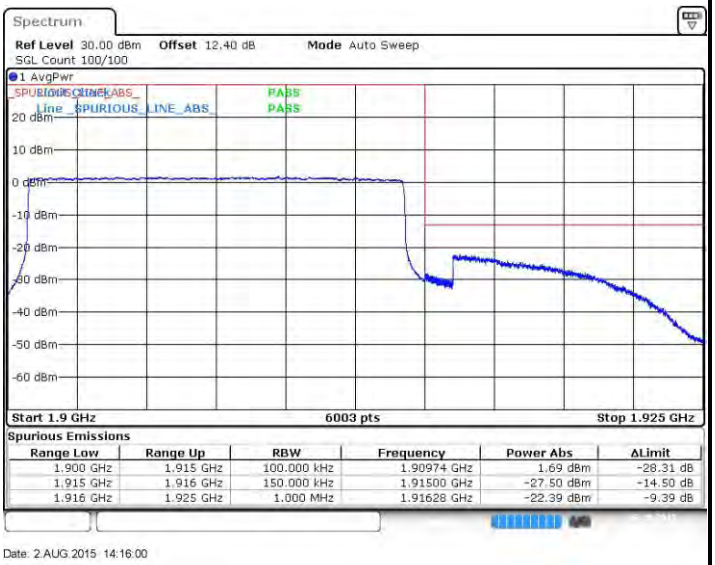
| LTE Band 25 / 3MHz / 16QAM | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge /1 RB** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

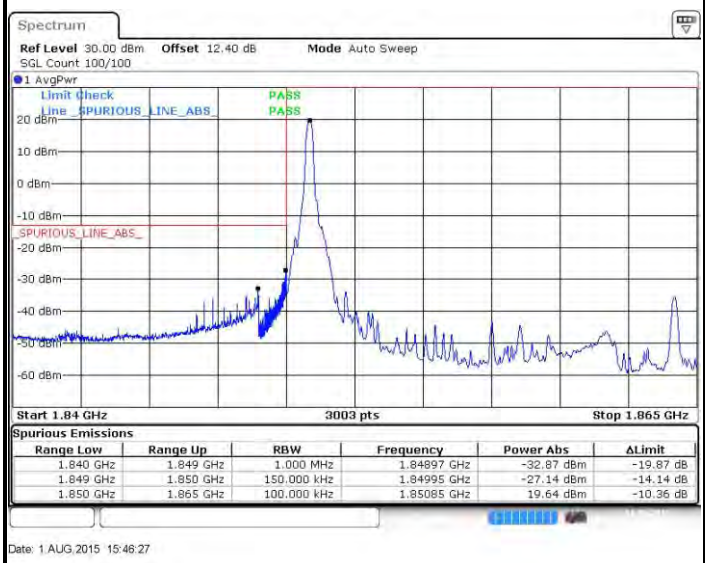
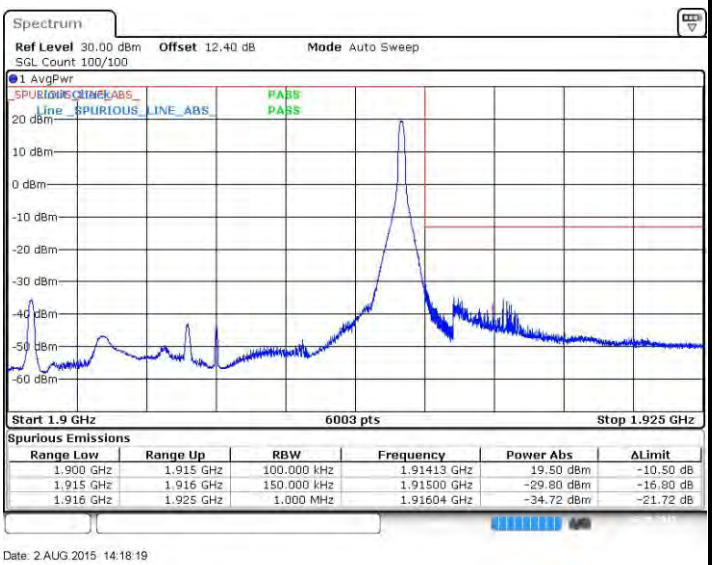
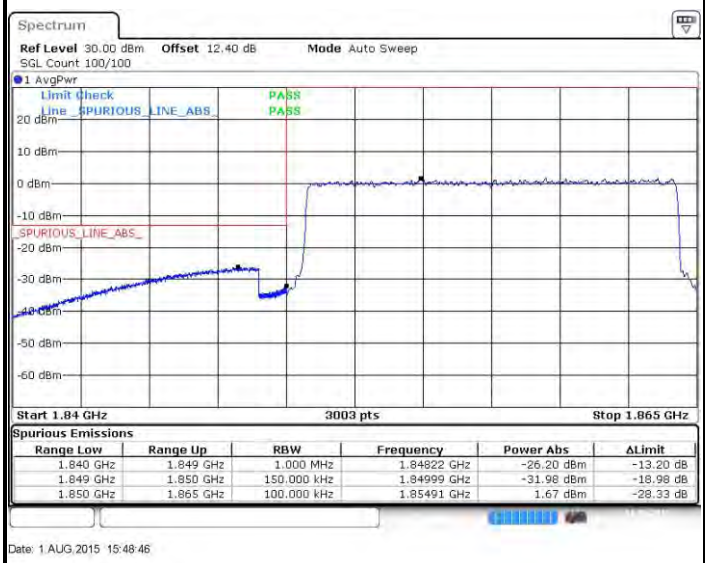
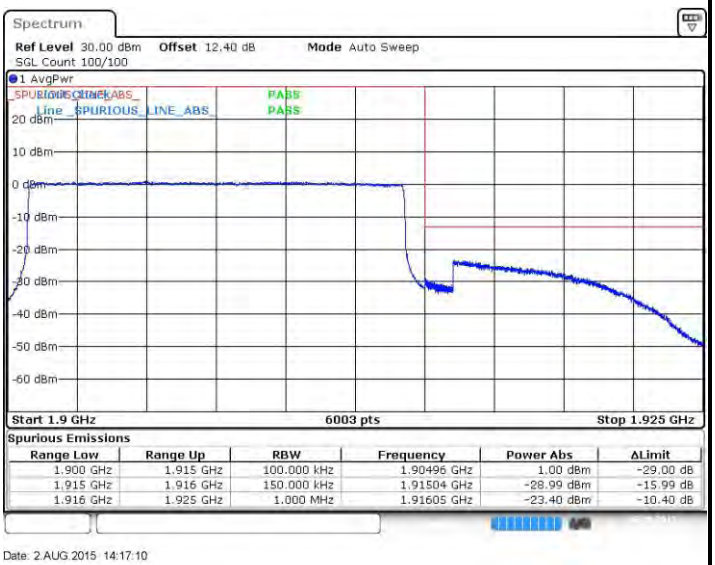
| LTE Band 25 / 5MHz / QPSK | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

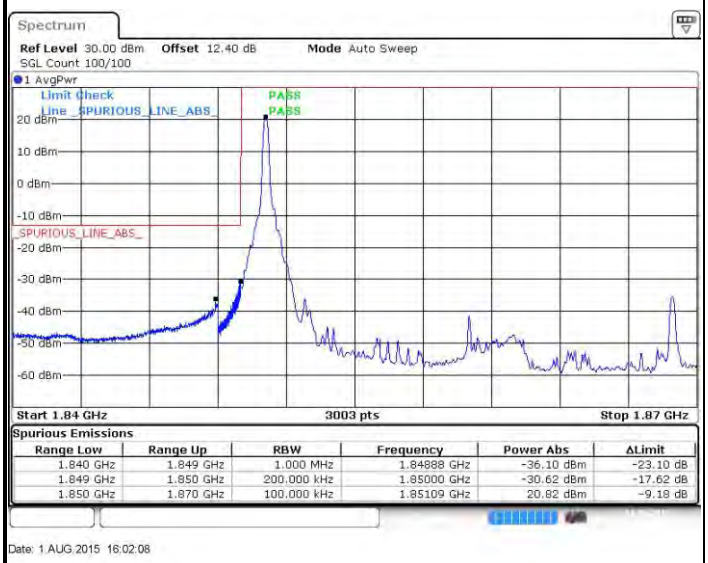
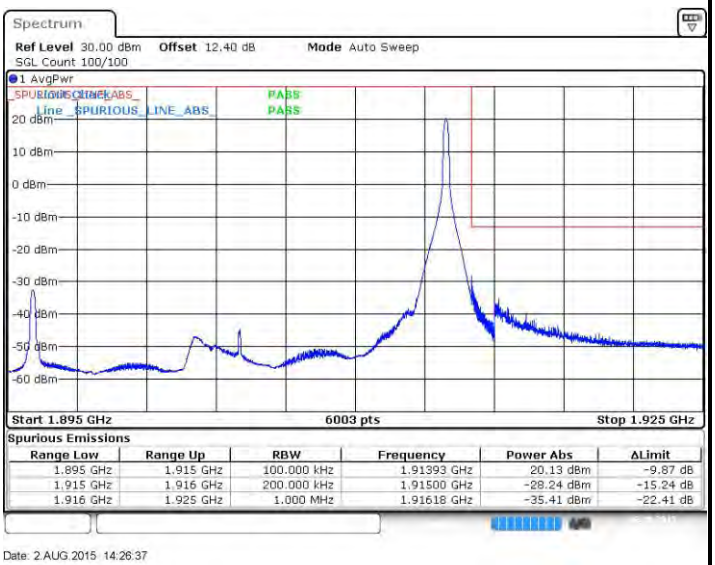
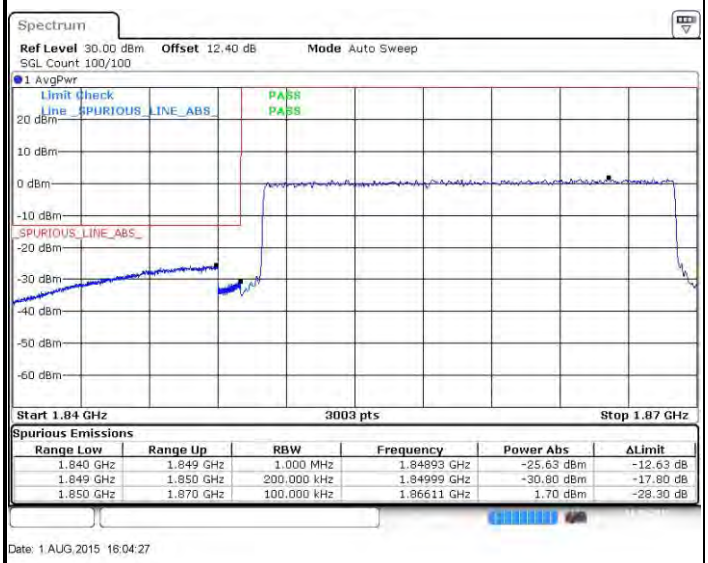
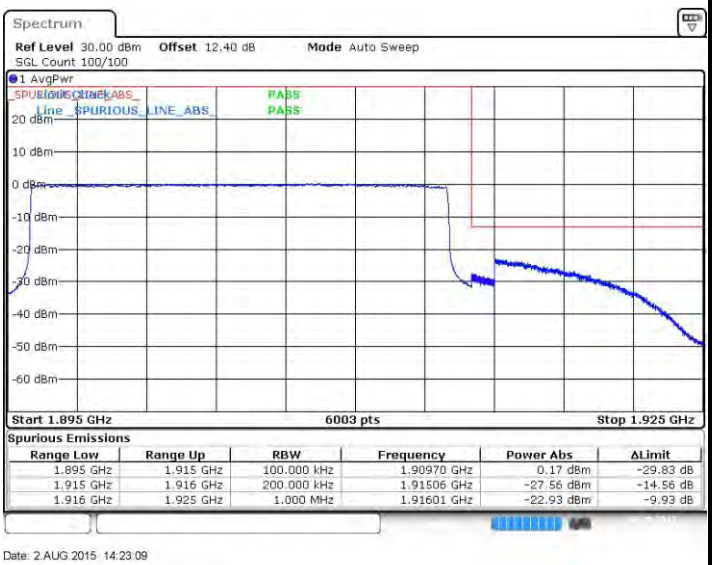
| LTE Band 25 / 5MHz / 16QAM | |
|---|---|
| **Lowest Band Edge / 1RB** | **Highest Band Edge / 1 RB** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

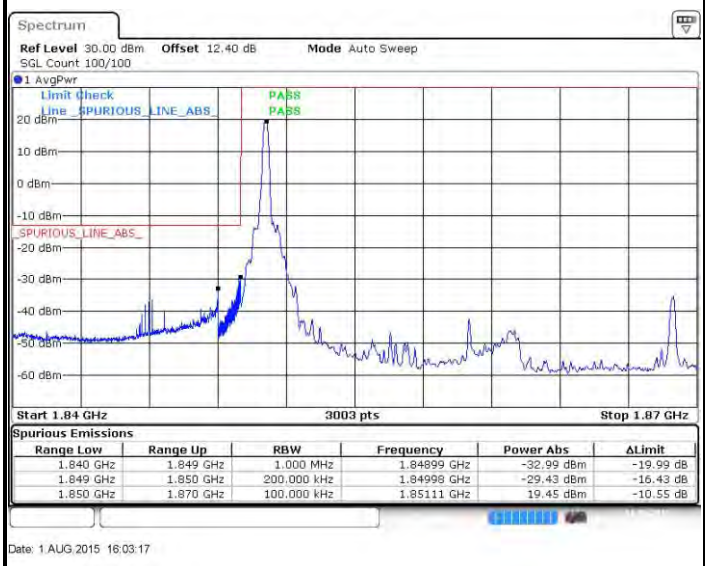
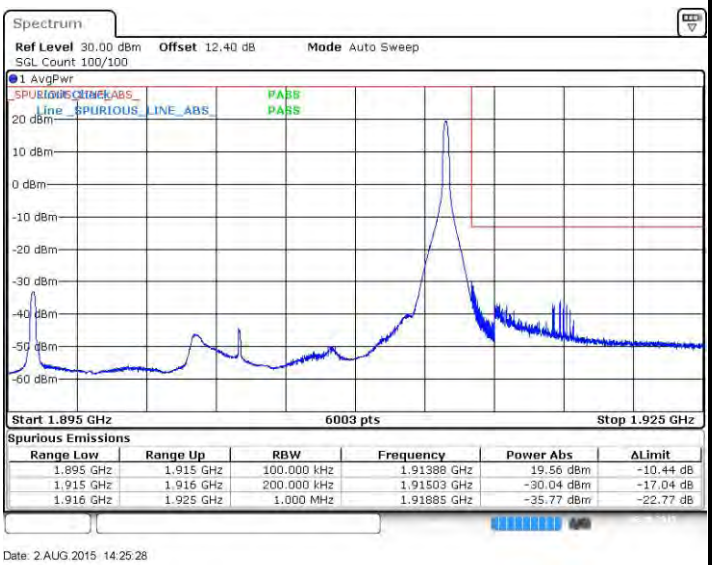
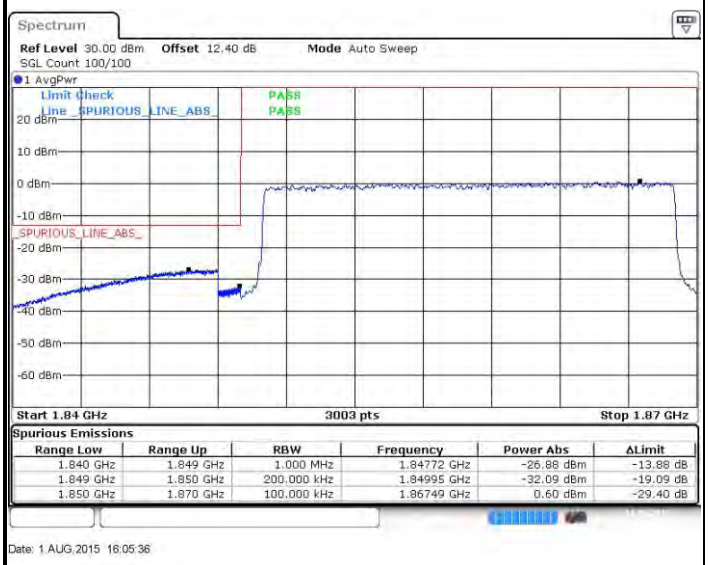
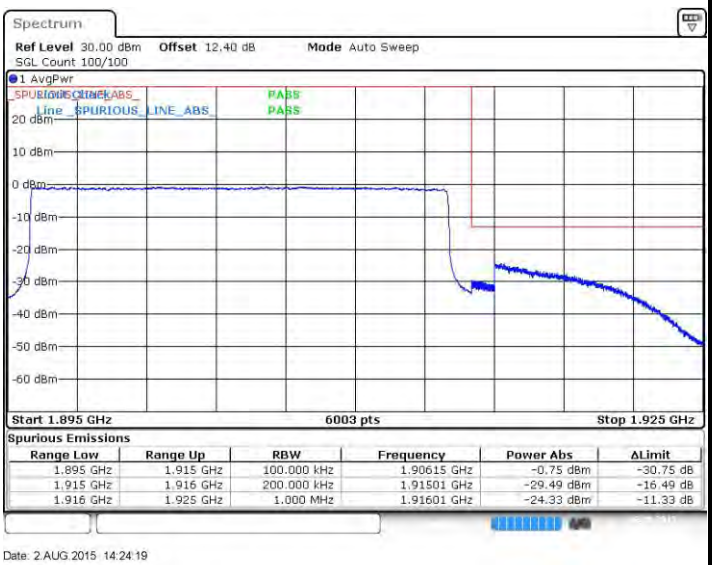
| LTE Band 25 / 10MHz / QPSK | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

| LTE Band 25 / 10MHz / 16QAM | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

| LTE Band 25 / 15MHz / QPSK | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

| LTE Band 25 / 15MHz / 16QAM | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

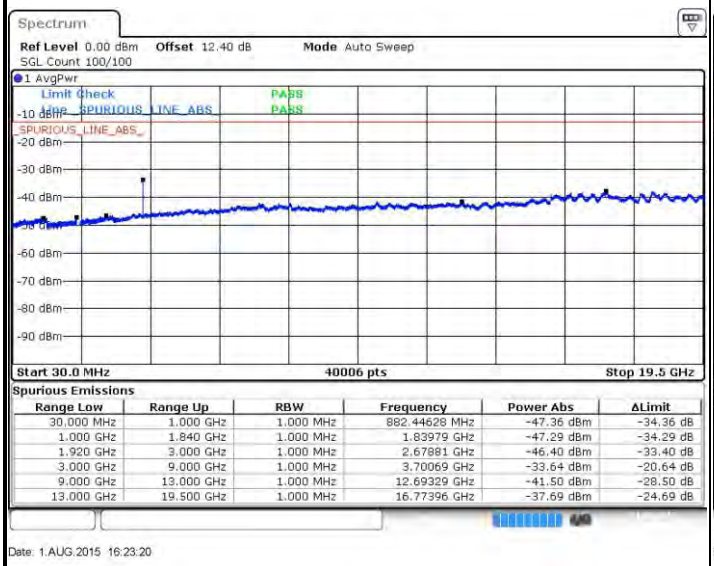
| LTE Band 25 / 20MHz / QPSK | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

| LTE Band 25 / 20MHz / 16QAM | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

# Conducted Spurious Emission

## LTE Band 25 / 1.4MHz

### Lowest Channel / QPSK

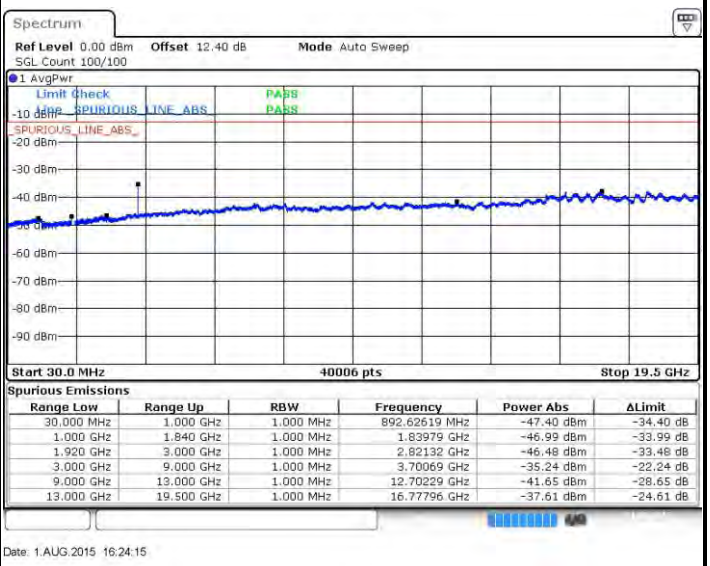



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 882.44628 MHz | -47.36 dBm | -34.36 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83979 GHz | -47.29 dBm | -34.29 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.67881 GHz | -46.40 dBm | -33.40 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.70069 GHz | -33.64 dBm | -20.64 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.69329 GHz | -41.50 dBm | -28.50 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.77396 GHz | -37.69 dBm | -24.69 dB |

Date: 1.AUG.2015 16:23:20

### Lowest Channel / 16QAM

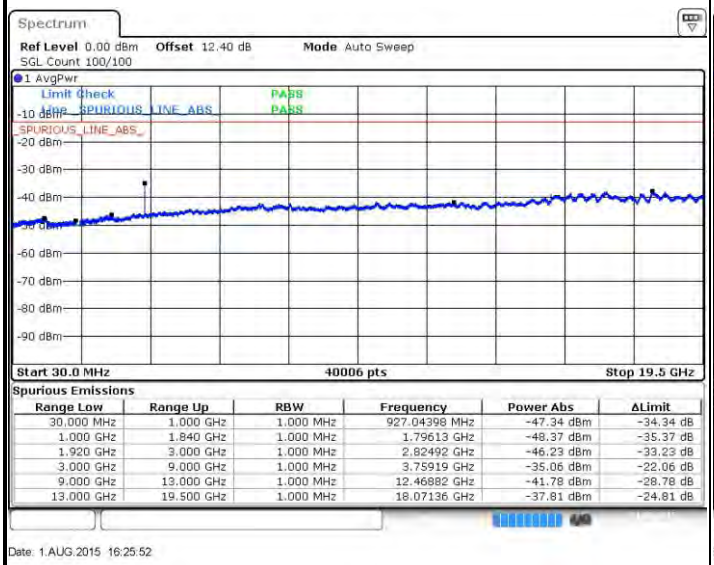



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 892.62619 MHz | -47.40 dBm | -34.40 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83979 GHz | -46.99 dBm | -33.99 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.82132 GHz | -46.48 dBm | -33.48 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.70069 GHz | -35.24 dBm | -22.24 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.70229 GHz | -41.65 dBm | -28.65 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.77796 GHz | -37.61 dBm | -24.61 dB |

Date: 1.AUG.2015 16:24:15

### Middle Channel / QPSK

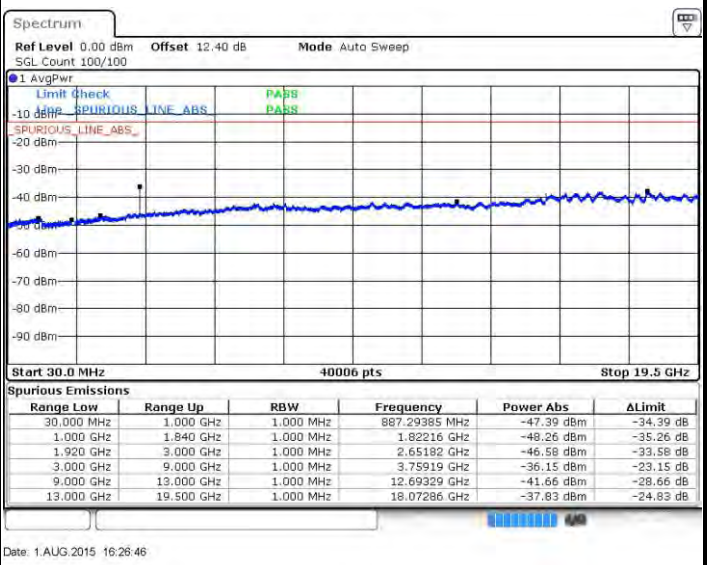



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 927.04398 MHz | -47.34 dBm | -34.34 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.79613 GHz | -48.37 dBm | -35.37 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.82492 GHz | -46.23 dBm | -33.23 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.75919 GHz | -35.06 dBm | -22.06 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.46882 GHz | -41.78 dBm | -28.78 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.07136 GHz | -37.81 dBm | -24.81 dB |

Date: 1.AUG.2015 16:25:52

### Middle Channel / 16QAM



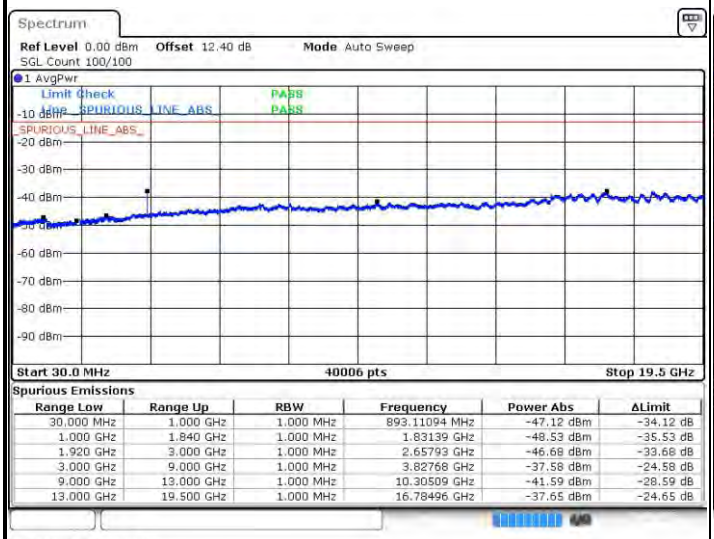

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 887.29385 MHz | -47.39 dBm | -34.39 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.82216 GHz | -48.26 dBm | -35.26 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.65182 GHz | -46.58 dBm | -33.58 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.75919 GHz | -36.15 dBm | -23.15 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.69329 GHz | -41.66 dBm | -28.66 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.07286 GHz | -37.83 dBm | -24.83 dB |

Date: 1.AUG.2015 16:26:46

## LTE Band 25 / 1.4MHz

### Highest Channel / QPSK

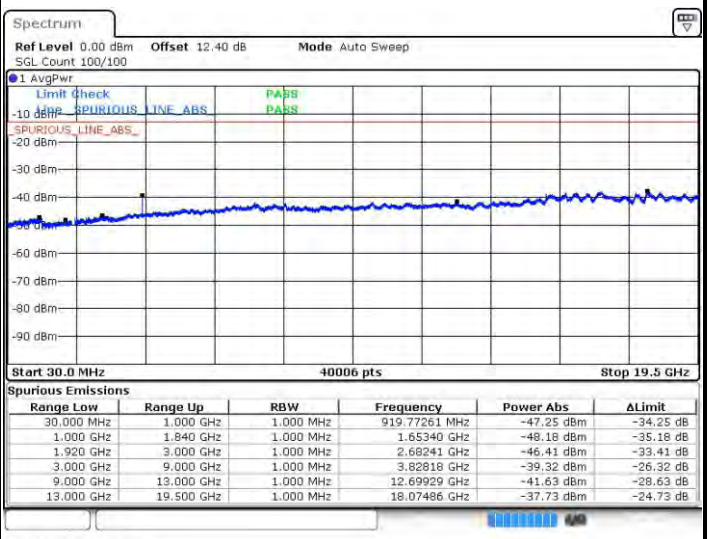



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 893.11094 MHz | -47.12 dBm | -34.12 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83139 GHz | -48.53 dBm | -35.53 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.65793 GHz | -46.68 dBm | -33.68 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.82768 GHz | -37.58 dBm | -24.58 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30509 GHz | -41.59 dBm | -28.59 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.78496 GHz | -37.65 dBm | -24.65 dB |

Date: 2.AUG.2015 14:34:42

### Highest Channel / 16QAM



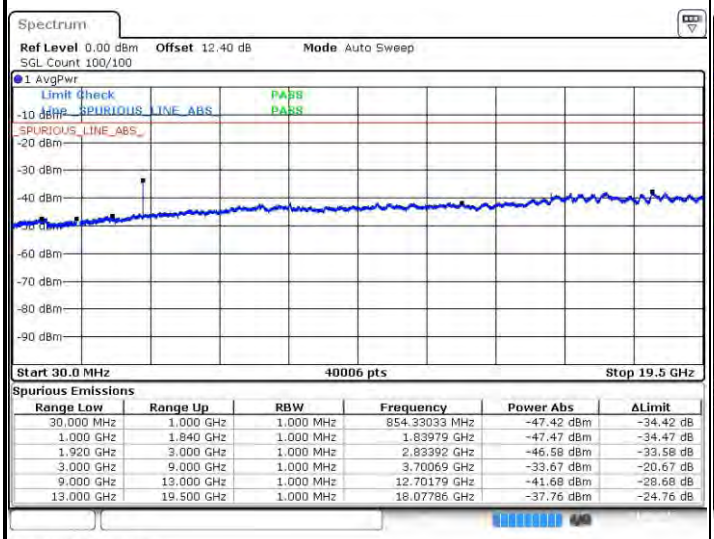

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 919.77261 MHz | -47.25 dBm | -34.25 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.65340 GHz | -48.18 dBm | -35.18 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.68241 GHz | -46.41 dBm | -33.41 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.82818 GHz | -39.32 dBm | -26.32 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.69929 GHz | -41.63 dBm | -28.63 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.07486 GHz | -37.73 dBm | -24.73 dB |

Date: 2.AUG.2015 14:35:37

## LTE Band 25 / 3MHz

### Lowest Channel / QPSK

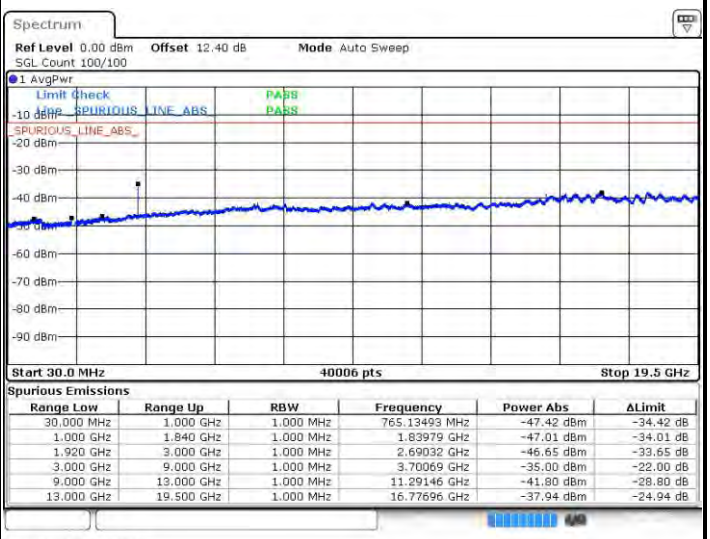



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 854.33033 MHz | -47.42 dBm | -34.42 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83979 GHz | -47.47 dBm | -34.47 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.83392 GHz | -46.58 dBm | -33.58 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.70069 GHz | -33.67 dBm | -20.67 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.70179 GHz | -41.68 dBm | -28.68 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.07786 GHz | -37.76 dBm | -24.76 dB |

Date: 1.AUG.2015 14:59:12

### Lowest Channel / 16QAM



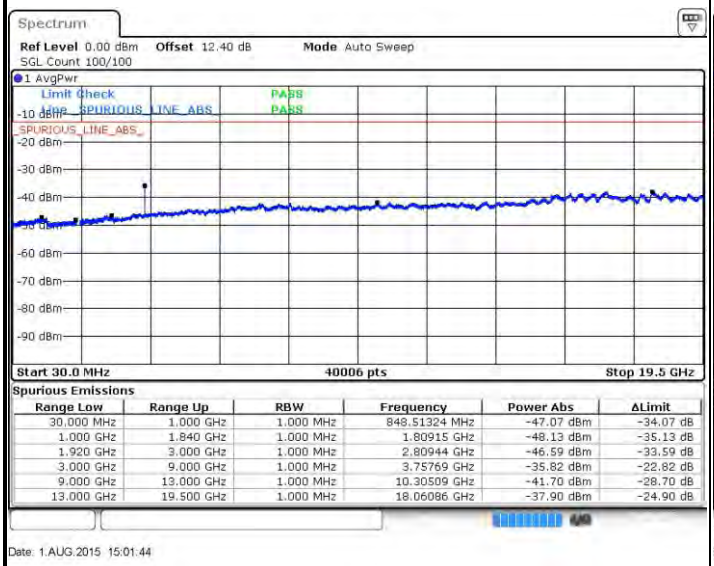

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 765.13493 MHz | -47.42 dBm | -34.42 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83979 GHz | -47.01 dBm | -34.01 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.69032 GHz | -46.65 dBm | -33.65 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.70069 GHz | -35.00 dBm | -22.00 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.29146 GHz | -41.80 dBm | -28.80 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.77696 GHz | -37.94 dBm | -24.94 dB |

Date: 1.AUG.2015 15:00:07

## LTE Band 25 / 3MHz

### Middle Channel / QPSK

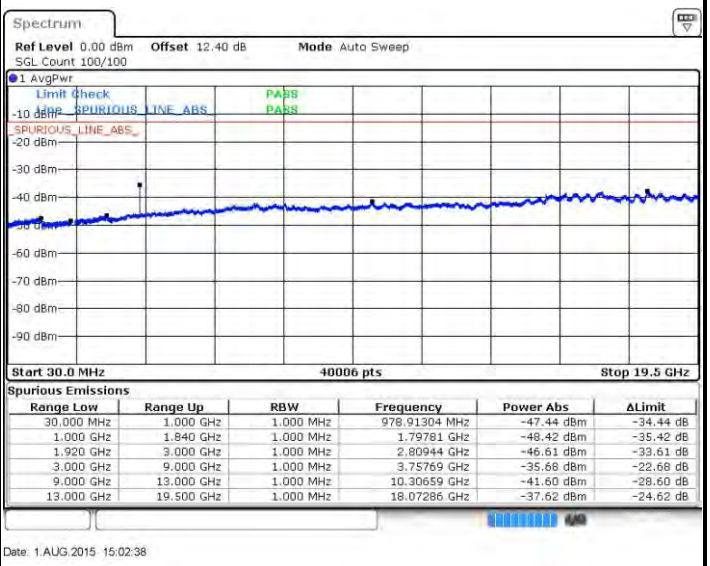



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 848.51324 MHz | -47.07 dBm | -34.07 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.80915 GHz | -48.13 dBm | -35.13 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.80944 GHz | -46.59 dBm | -33.59 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.75769 GHz | -35.82 dBm | -22.82 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30509 GHz | -41.70 dBm | -28.70 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.06086 GHz | -37.90 dBm | -24.90 dB |

Date: 1.AUG.2015 15:01:44

### Middle Channel / 16QAM

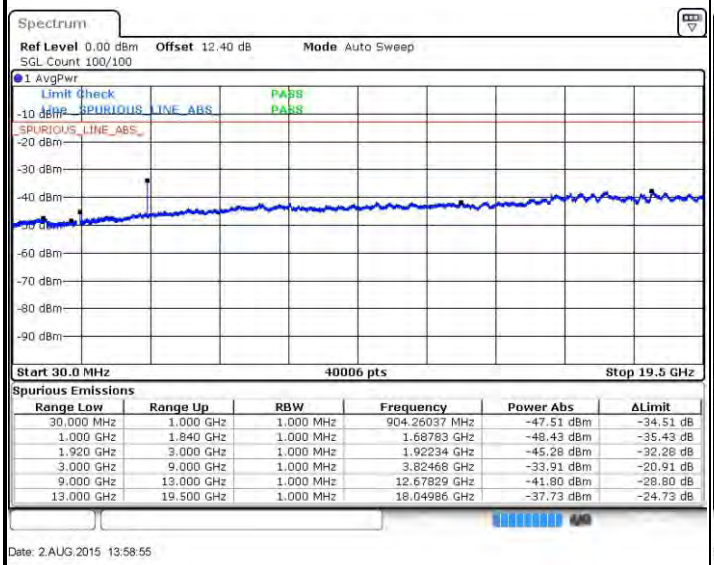



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 978.91304 MHz | -47.44 dBm | -34.44 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.79781 GHz | -48.42 dBm | -35.42 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.80944 GHz | -46.61 dBm | -33.61 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.75769 GHz | -35.68 dBm | -22.68 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30659 GHz | -41.60 dBm | -28.60 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.07286 GHz | -37.62 dBm | -24.62 dB |

Date: 1.AUG.2015 15:02:38

### Highest Channel / QPSK

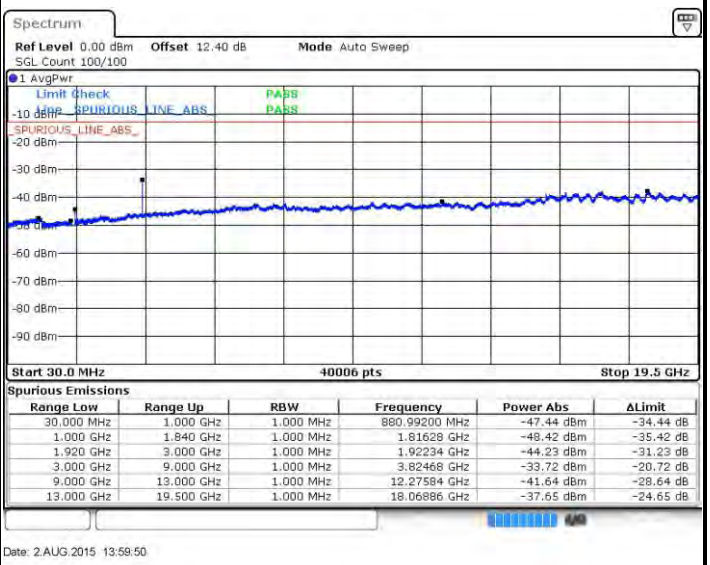



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 904.26037 MHz | -47.51 dBm | -34.51 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.68783 GHz | -48.43 dBm | -35.43 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.92234 GHz | -45.28 dBm | -32.28 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.82468 GHz | -33.91 dBm | -20.91 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.67829 GHz | -41.80 dBm | -28.80 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.04986 GHz | -37.73 dBm | -24.73 dB |

Date: 2.AUG.2015 13:58:55

### Highest Channel / 16QAM



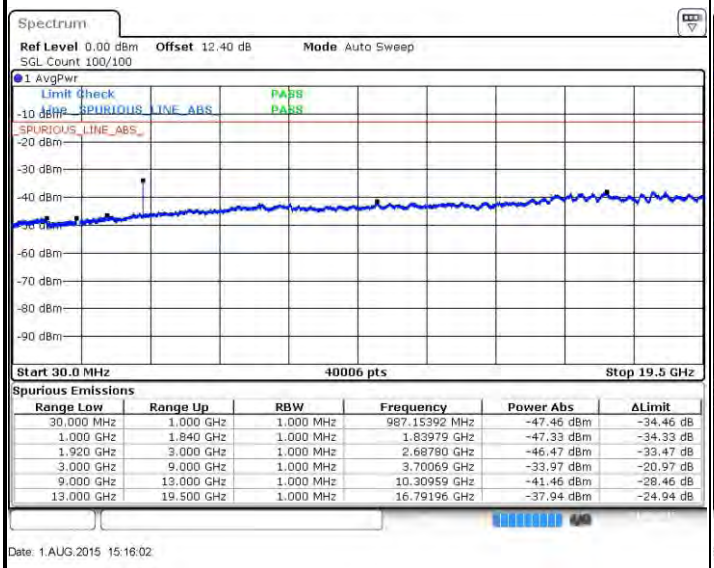

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 880.99200 MHz | -47.44 dBm | -34.44 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.81628 GHz | -48.42 dBm | -35.42 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.92234 GHz | -44.23 dBm | -31.23 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.82468 GHz | -33.72 dBm | -20.72 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.27584 GHz | -41.64 dBm | -28.64 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.06886 GHz | -37.65 dBm | -24.65 dB |

Date: 2.AUG.2015 13:59:50

## LTE Band 25 / 5MHz

### Lowest Channel / QPSK

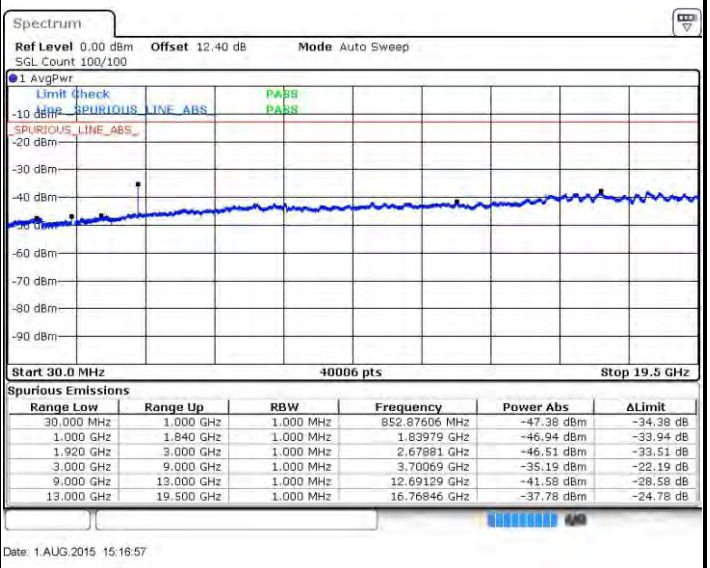



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 987.15392 MHz | -47.46 dBm | -34.46 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83979 GHz | -47.33 dBm | -34.33 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.68780 GHz | -46.47 dBm | -33.47 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.70069 GHz | -33.97 dBm | -20.97 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30959 GHz | -41.46 dBm | -28.46 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.79196 GHz | -37.94 dBm | -24.94 dB |

Date: 1.AUG.2015 15:16:02

### Lowest Channel / 16QAM

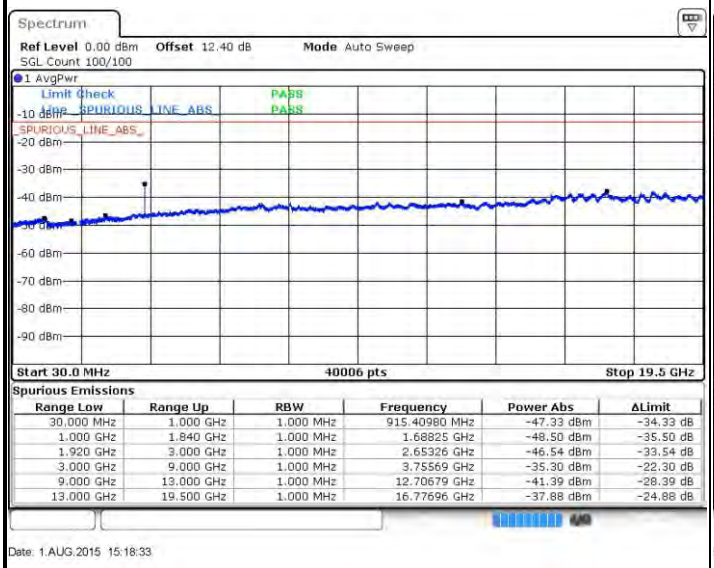



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 852.87606 MHz | -47.38 dBm | -34.38 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83979 GHz | -46.94 dBm | -33.94 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.67881 GHz | -46.51 dBm | -33.51 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.70069 GHz | -35.19 dBm | -22.19 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.69129 GHz | -41.58 dBm | -28.58 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.76846 GHz | -37.78 dBm | -24.78 dB |

Date: 1.AUG.2015 15:16:57

### Middle Channel / QPSK

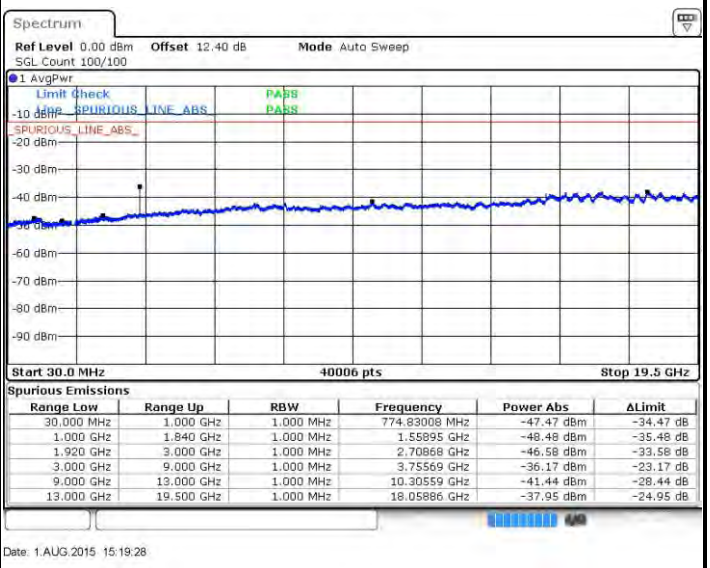



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 915.40980 MHz | -47.33 dBm | -34.33 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.68825 GHz | -48.50 dBm | -35.50 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.65326 GHz | -46.54 dBm | -33.54 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.75569 GHz | -35.30 dBm | -22.30 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.70679 GHz | -41.39 dBm | -28.39 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.77696 GHz | -37.88 dBm | -24.88 dB |

Date: 1.AUG.2015 15:18:33

### Middle Channel / 16QAM



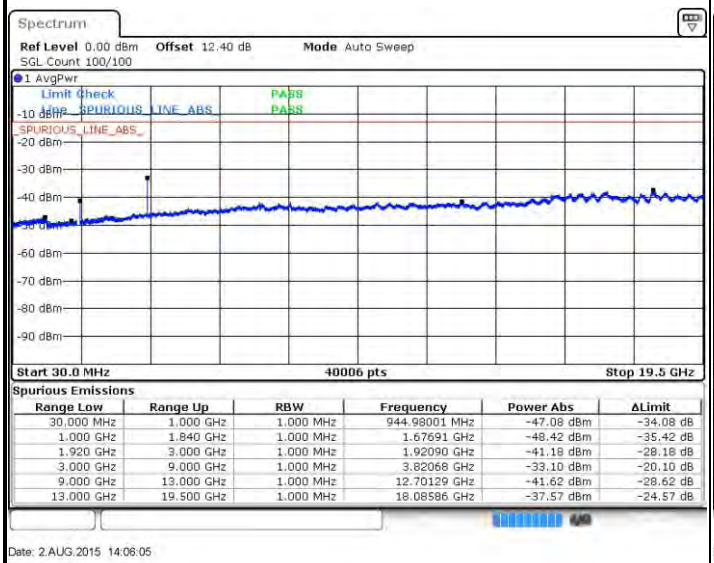

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 774.83008 MHz | -47.47 dBm | -34.47 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.55895 GHz | -48.48 dBm | -35.48 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.70868 GHz | -46.58 dBm | -33.58 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.75569 GHz | -36.17 dBm | -23.17 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30559 GHz | -41.44 dBm | -28.44 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.05886 GHz | -37.95 dBm | -24.95 dB |

Date: 1.AUG.2015 15:19:28

## LTE Band 25 / 5MHz

### Highest Channel / QPSK

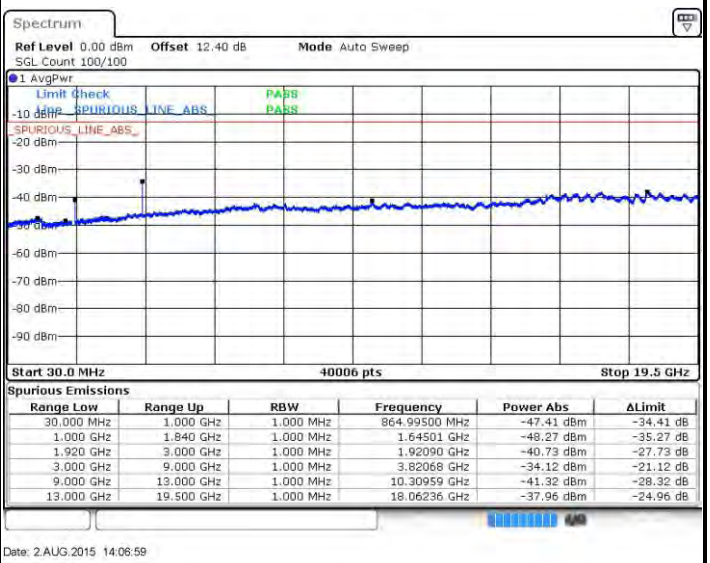



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 944.98001 MHz | -47.08 dBm | -34.08 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.67691 GHz | -48.42 dBm | -35.42 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.92090 GHz | -41.18 dBm | -28.18 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.82068 GHz | -33.10 dBm | -20.10 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.70129 GHz | -41.62 dBm | -28.62 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.08586 GHz | -37.57 dBm | -24.57 dB |

Date: 2.AUG.2015 14:06:05

### Highest Channel / 16QAM



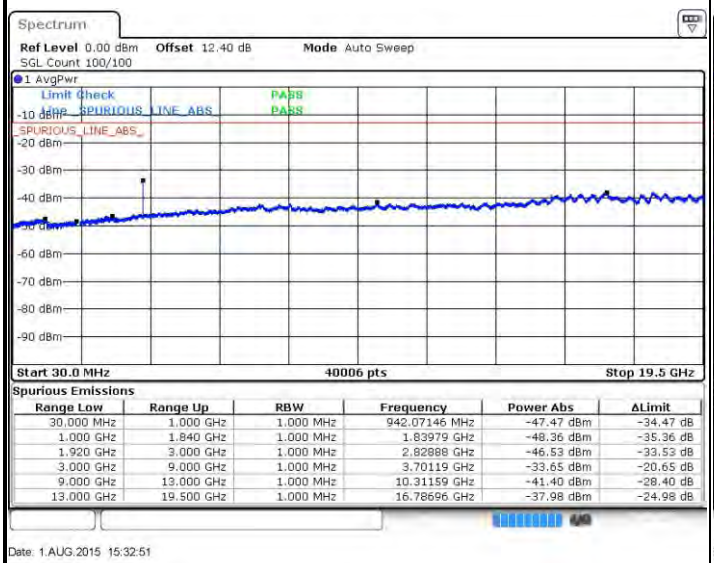

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 864.99500 MHz | -47.41 dBm | -34.41 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.64501 GHz | -48.27 dBm | -35.27 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.92090 GHz | -40.73 dBm | -27.73 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.82068 GHz | -34.12 dBm | -21.12 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30959 GHz | -41.32 dBm | -28.32 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.06236 GHz | -37.96 dBm | -24.96 dB |

Date: 2.AUG.2015 14:06:59

## LTE Band 25 / 10MHz

### Lowest Channel / QPSK

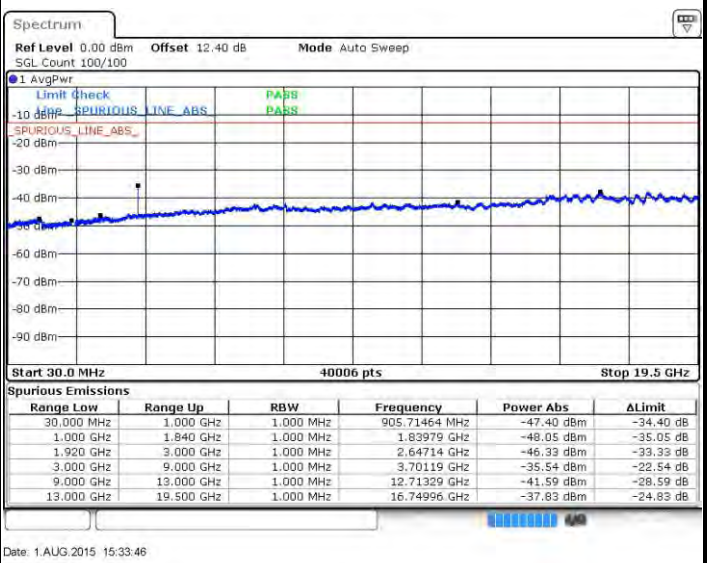



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 942.07146 MHz | -47.47 dBm | -34.47 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83979 GHz | -48.36 dBm | -35.36 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.82888 GHz | -46.53 dBm | -33.53 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.70119 GHz | -33.65 dBm | -20.65 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.31159 GHz | -41.40 dBm | -28.40 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.78696 GHz | -37.98 dBm | -24.98 dB |

Date: 1.AUG.2015 15:32:51

### Lowest Channel / 16QAM



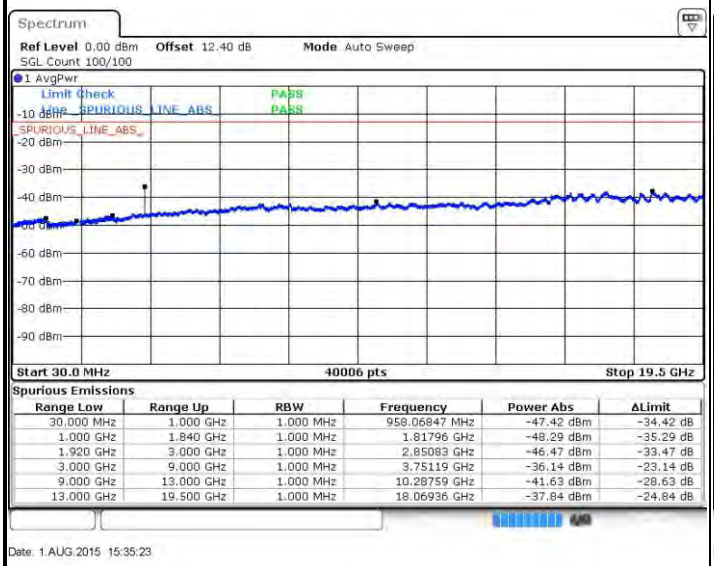

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 905.71464 MHz | -47.40 dBm | -34.40 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83979 GHz | -48.05 dBm | -35.05 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.64714 GHz | -46.33 dBm | -33.33 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.70119 GHz | -35.54 dBm | -22.54 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.71329 GHz | -41.59 dBm | -28.59 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.74996 GHz | -37.83 dBm | -24.83 dB |

Date: 1.AUG.2015 15:33:46

## LTE Band 25 / 10MHz

### Middle Channel / QPSK

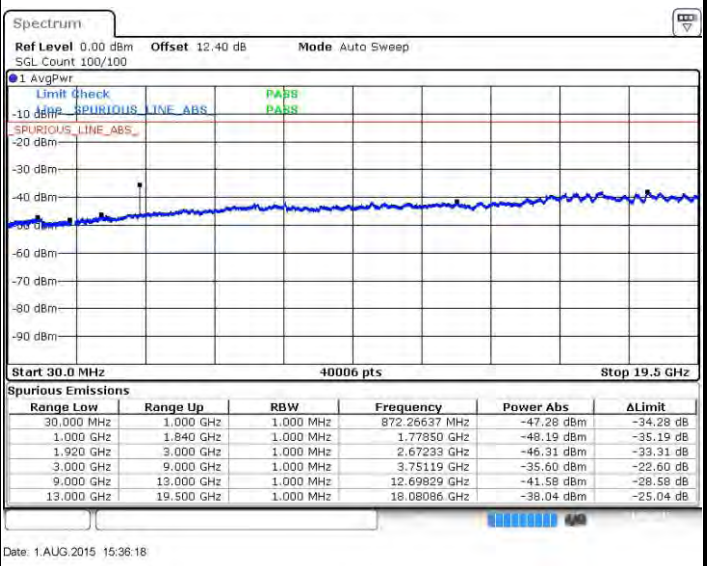



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 958.06847 MHz | -47.42 dBm | -34.42 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.81796 GHz | -48.29 dBm | -35.29 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.85083 GHz | -46.47 dBm | -33.47 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.75119 GHz | -36.14 dBm | -23.14 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.28759 GHz | -41.63 dBm | -28.63 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.06936 GHz | -37.84 dBm | -24.84 dB |

Date: 1.AUG.2015 15:35:23

### Middle Channel / 16QAM

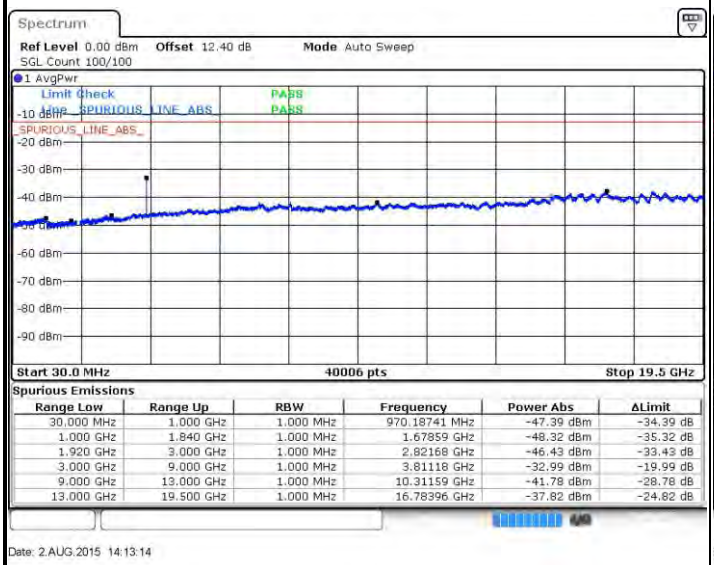



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 872.26637 MHz | -47.28 dBm | -34.28 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.77850 GHz | -48.19 dBm | -35.19 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.67233 GHz | -46.31 dBm | -33.31 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.75119 GHz | -35.60 dBm | -22.60 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.69829 GHz | -41.58 dBm | -28.58 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.08086 GHz | -38.04 dBm | -25.04 dB |

Date: 1.AUG.2015 15:36:18

### Highest Channel / QPSK

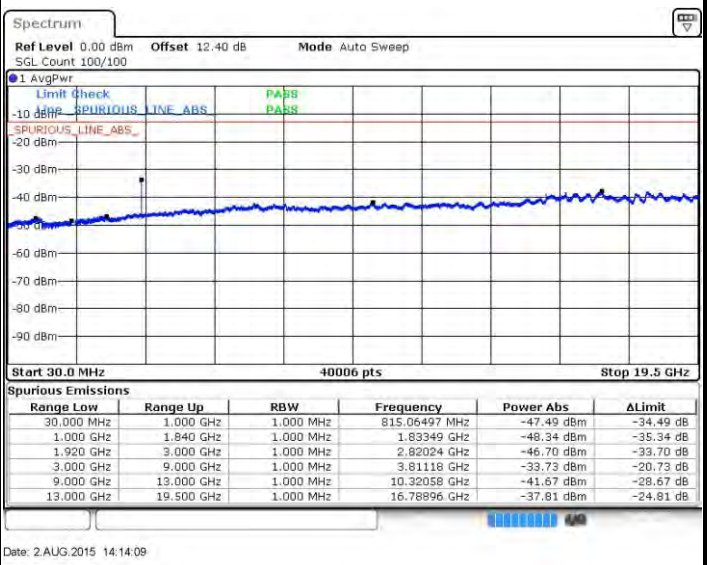



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 970.18741 MHz | -47.39 dBm | -34.39 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.67859 GHz | -48.32 dBm | -35.32 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.82168 GHz | -46.43 dBm | -33.43 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.81118 GHz | -32.99 dBm | -19.99 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.31159 GHz | -41.78 dBm | -28.78 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.78396 GHz | -37.82 dBm | -24.82 dB |

Date: 2.AUG.2015 14:13:14

### Highest Channel / 16QAM



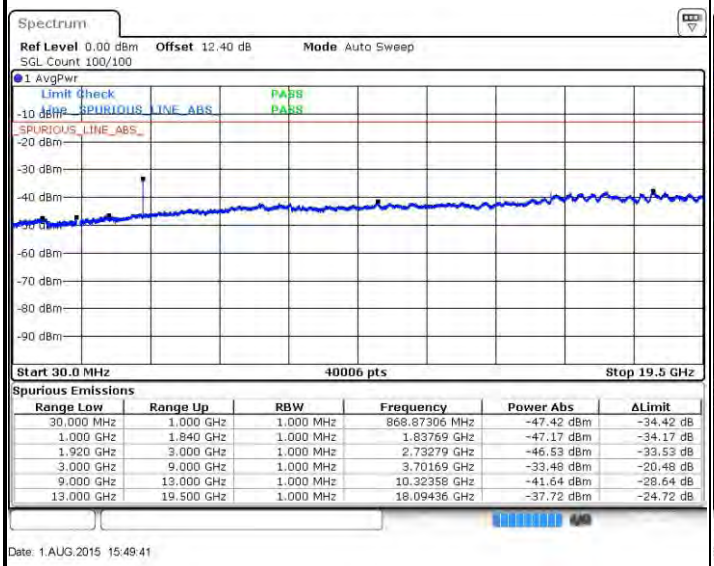

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 815.06497 MHz | -47.49 dBm | -34.49 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83349 GHz | -48.34 dBm | -35.34 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.82024 GHz | -46.70 dBm | -33.70 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.81118 GHz | -33.73 dBm | -20.73 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.32058 GHz | -41.67 dBm | -28.67 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.78896 GHz | -37.81 dBm | -24.81 dB |

Date: 2.AUG.2015 14:14:09

## LTE Band 25 / 15MHz

### Lowest Channel / QPSK

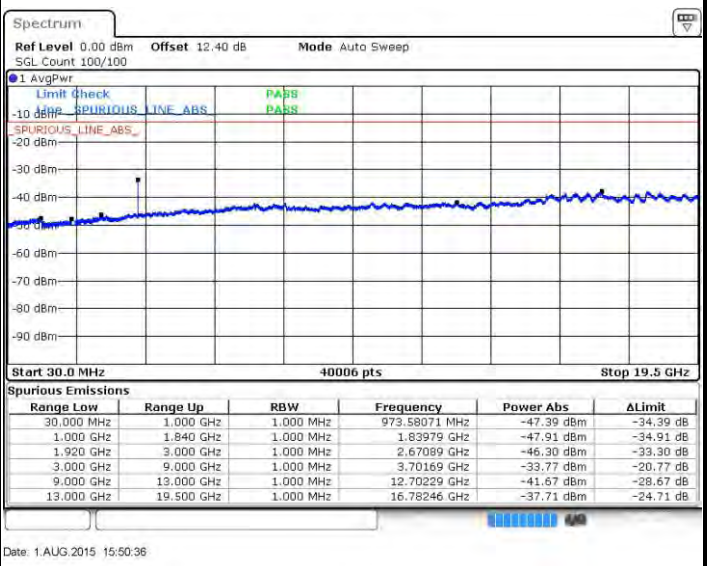



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 868.87306 MHz | -47.42 dBm | -34.42 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83769 GHz | -47.17 dBm | -34.17 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.73279 GHz | -46.53 dBm | -33.53 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.70169 GHz | -33.48 dBm | -20.48 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.32358 GHz | -41.64 dBm | -28.64 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.09436 GHz | -37.72 dBm | -24.72 dB |

Date: 1.AUG.2015 15:49:41

### Lowest Channel / 16QAM

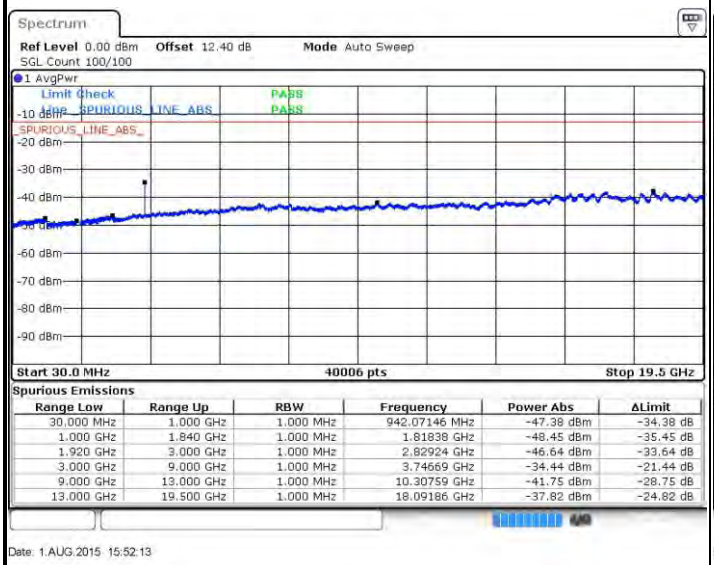



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 973.58071 MHz | -47.39 dBm | -34.39 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83979 GHz | -47.91 dBm | -34.91 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.67089 GHz | -46.30 dBm | -33.30 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.70169 GHz | -33.77 dBm | -20.77 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.70229 GHz | -41.67 dBm | -28.67 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.78246 GHz | -37.71 dBm | -24.71 dB |

Date: 1.AUG.2015 15:50:36

### Middle Channel / QPSK

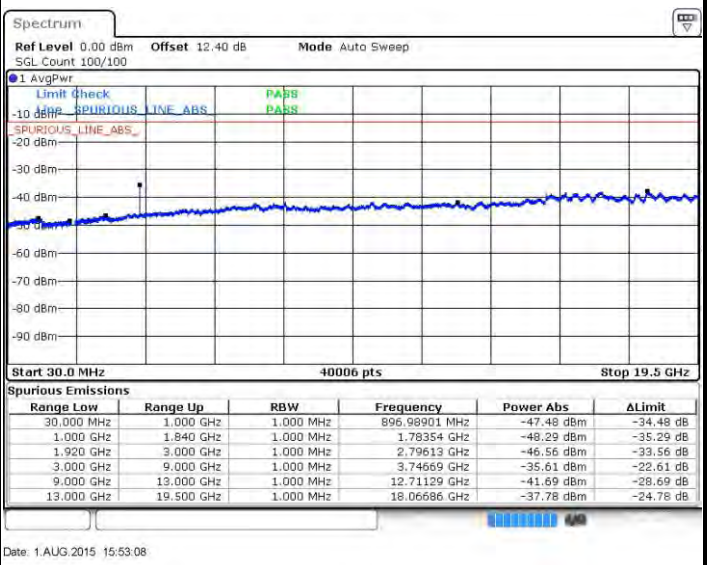



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 942.07146 MHz | -47.38 dBm | -34.38 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.81838 GHz | -48.45 dBm | -35.45 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.82924 GHz | -46.64 dBm | -33.64 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.74669 GHz | -34.44 dBm | -21.44 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30759 GHz | -41.75 dBm | -28.75 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.09186 GHz | -37.82 dBm | -24.82 dB |

Date: 1.AUG.2015 15:52:13

### Middle Channel / 16QAM



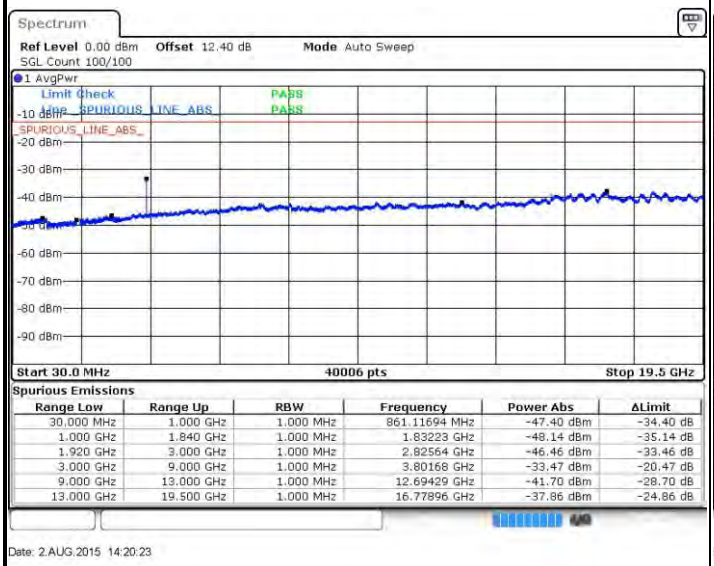

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 896.98901 MHz | -47.48 dBm | -34.48 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.78354 GHz | -48.29 dBm | -35.29 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.79613 GHz | -46.56 dBm | -33.56 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.74669 GHz | -35.61 dBm | -22.61 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.71129 GHz | -41.69 dBm | -28.69 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.06686 GHz | -37.78 dBm | -24.78 dB |

Date: 1.AUG.2015 15:53:08

## LTE Band 25 / 15MHz

### Highest Channel / QPSK

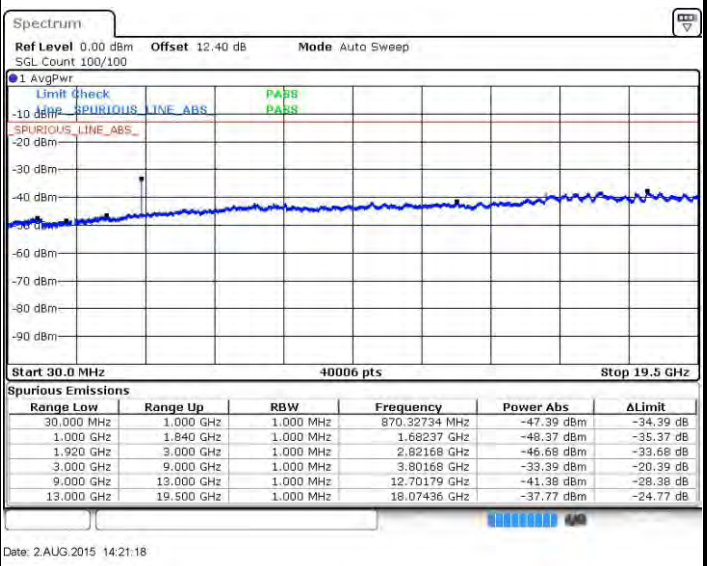



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 861.11694 MHz | -47.40 dBm | -34.40 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83223 GHz | -48.14 dBm | -35.14 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.82564 GHz | -46.46 dBm | -33.46 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.80168 GHz | -33.47 dBm | -20.47 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.69429 GHz | -41.70 dBm | -28.70 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.77896 GHz | -37.86 dBm | -24.86 dB |

Date: 2.AUG.2015 14:20:23

### Highest Channel / 16QAM



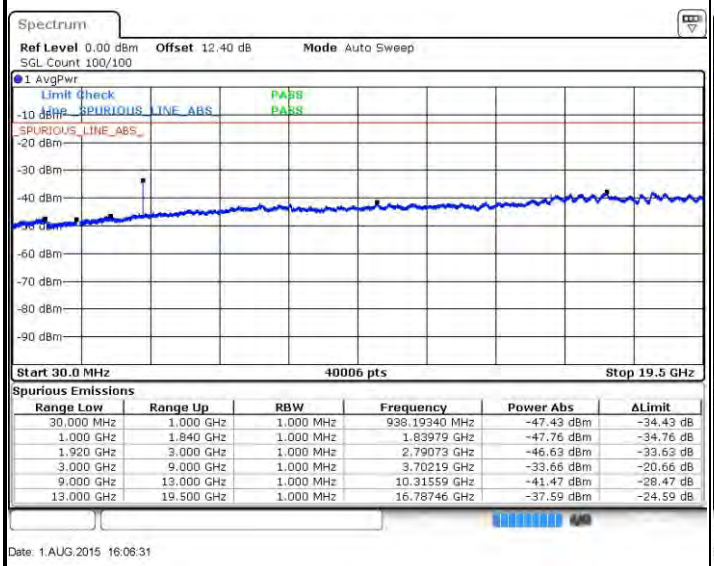

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 870.32734 MHz | -47.39 dBm | -34.39 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.68237 GHz | -48.37 dBm | -35.37 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.82168 GHz | -46.68 dBm | -33.68 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.80168 GHz | -33.39 dBm | -20.39 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.70179 GHz | -41.38 dBm | -28.38 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.07436 GHz | -37.77 dBm | -24.77 dB |

Date: 2.AUG.2015 14:21:18

## LTE Band 25 / 20MHz

### Lowest Channel / QPSK

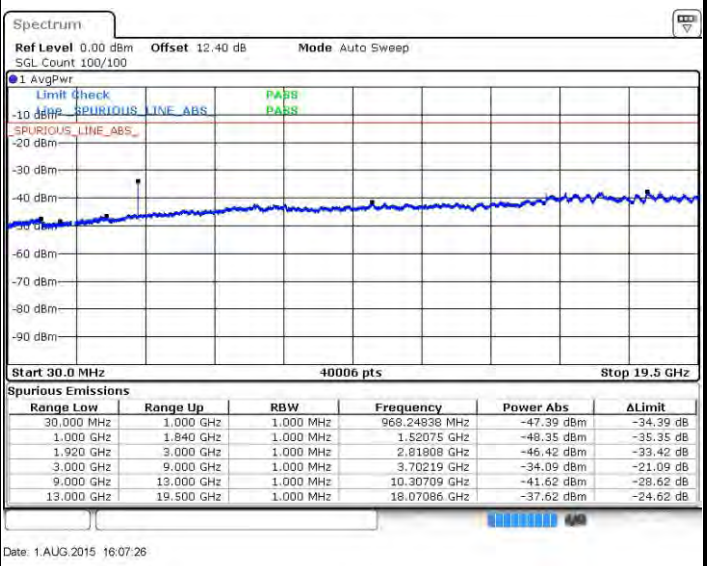



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 938.19340 MHz | -47.43 dBm | -34.43 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83979 GHz | -47.76 dBm | -34.76 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.79073 GHz | -46.63 dBm | -33.63 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.70219 GHz | -33.66 dBm | -20.66 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.31559 GHz | -41.47 dBm | -28.47 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.78746 GHz | -37.59 dBm | -24.59 dB |

Date: 1.AUG.2015 16:06:31

### Lowest Channel / 16QAM



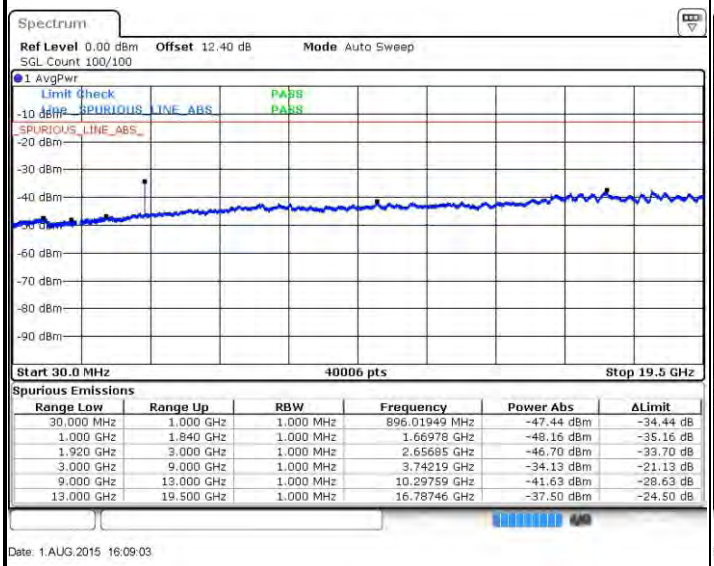

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 968.24838 MHz | -47.39 dBm | -34.39 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.52075 GHz | -48.35 dBm | -35.35 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.81808 GHz | -46.42 dBm | -33.42 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.70219 GHz | -34.09 dBm | -21.09 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30709 GHz | -41.62 dBm | -28.62 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.07086 GHz | -37.62 dBm | -24.62 dB |

Date: 1.AUG.2015 16:07:26

## LTE Band 25 / 20MHz

### Middle Channel / QPSK

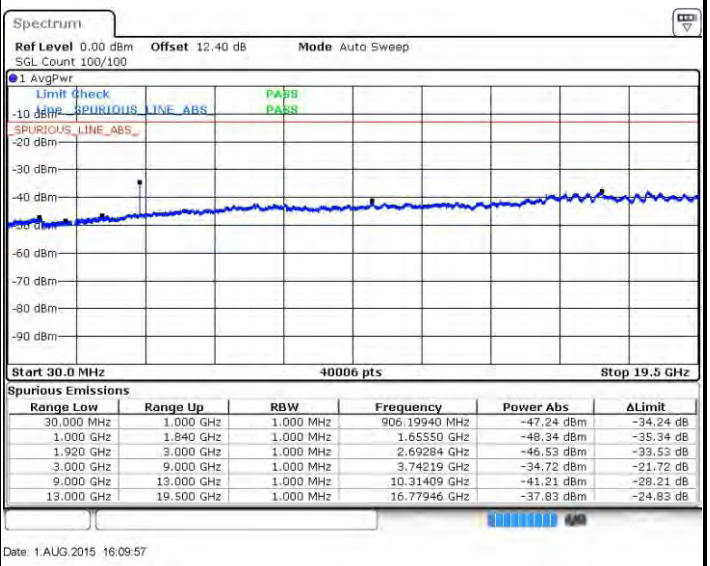



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 896.01949 MHz | -47.44 dBm | -34.44 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.66978 GHz | -48.16 dBm | -35.16 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.65685 GHz | -46.70 dBm | -33.70 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.74219 GHz | -34.13 dBm | -21.13 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.29759 GHz | -41.63 dBm | -28.63 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.78746 GHz | -37.50 dBm | -24.50 dB |

Date: 1.AUG.2015 16:09:03

### Middle Channel / 16QAM

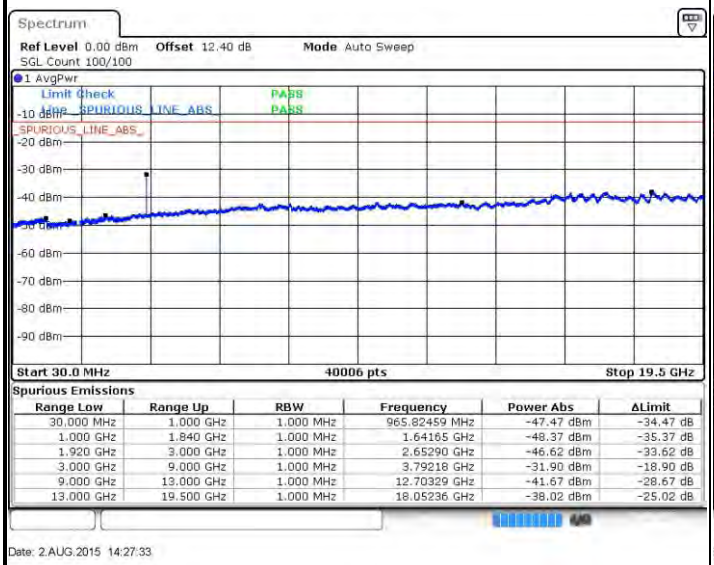



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 906.19940 MHz | -47.24 dBm | -34.24 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.65550 GHz | -48.34 dBm | -35.34 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.69284 GHz | -46.53 dBm | -33.53 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.74219 GHz | -34.72 dBm | -21.72 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.31409 GHz | -41.21 dBm | -28.21 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.77946 GHz | -37.83 dBm | -24.83 dB |

Date: 1.AUG.2015 16:09:57

### Highest Channel / QPSK

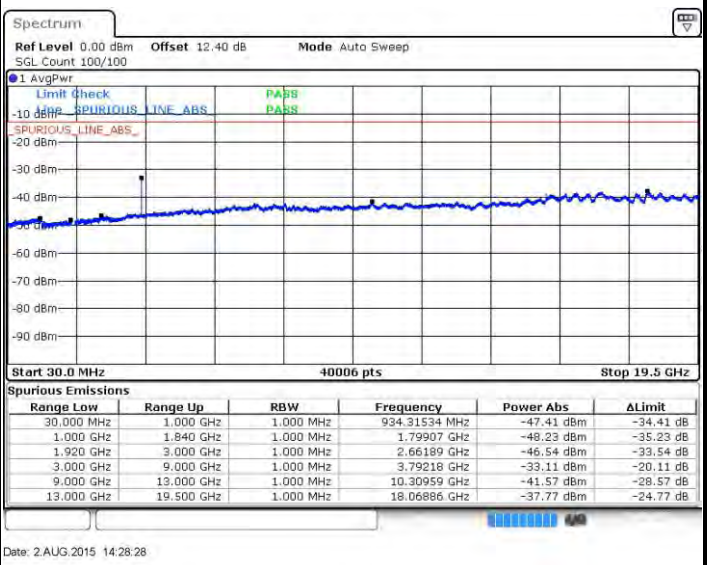



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 965.82459 MHz | -47.47 dBm | -34.47 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.64165 GHz | -48.37 dBm | -35.37 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.65290 GHz | -46.62 dBm | -33.62 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.79218 GHz | -31.90 dBm | -18.90 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.70329 GHz | -41.67 dBm | -28.67 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.05236 GHz | -38.02 dBm | -25.02 dB |

Date: 2.AUG.2015 14:27:33

### Highest Channel / 16QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 934.31534 MHz | -47.41 dBm | -34.41 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.79907 GHz | -48.23 dBm | -35.23 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 2.66189 GHz | -46.54 dBm | -33.54 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.79218 GHz | -33.11 dBm | -20.11 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30959 GHz | -41.57 dBm | -28.57 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 18.06886 GHz | -37.77 dBm | -24.77 dB |

Date: 2.AUG.2015 14:28:28

# Frequency Stability

| Test Conditions | | LTE Band 25 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0009 | PASS |
| 40 | Normal Voltage | 0.0016 | |
| 30 | Normal Voltage | 0.0015 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0003 | |
| 0 | Normal Voltage | 0.0018 | |
| -10 | Normal Voltage | 0.0005 | |
| -20 | Normal Voltage | 0.0006 | |
| -30 | Normal Voltage | 0.0009 | |
| 20 | Maximum Voltage | 0.0007 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0002 | |

**Note:**

**1.** Normal Voltage = 4.0 V. ；Battery End Point (BEP) = 3.5 V.；Maximum Voltage =4.35 V

**2.** The frequency range shall be within the frequency range.