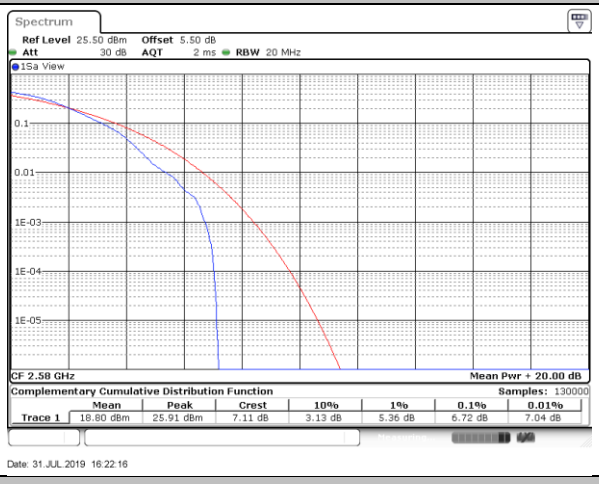
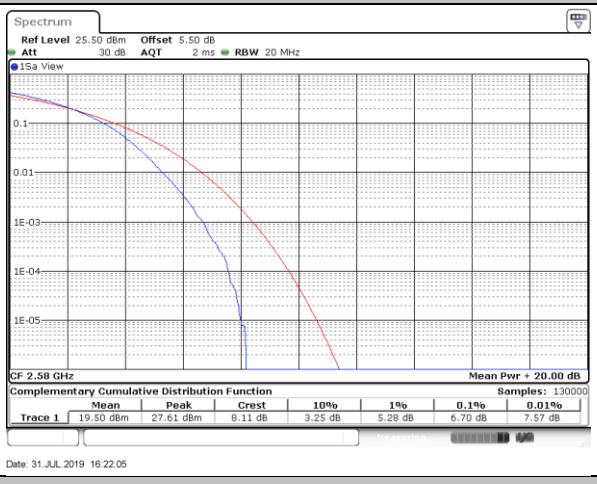
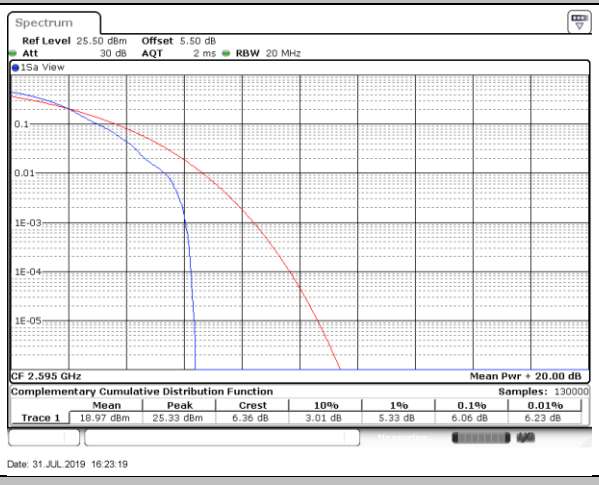
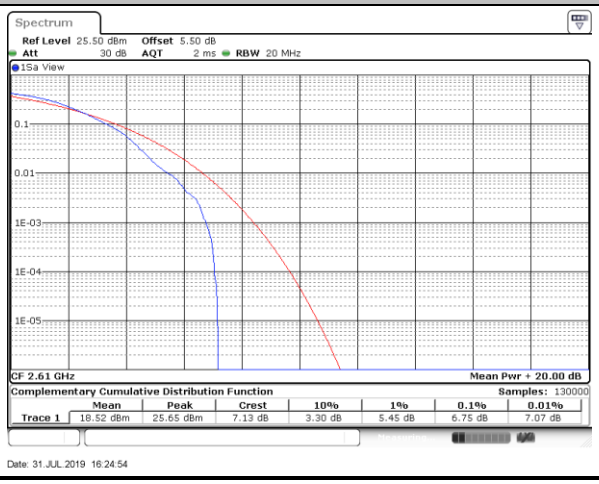
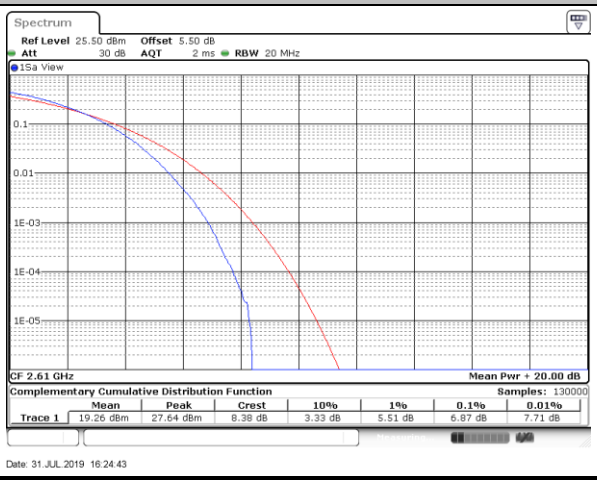
| LTE Band 38 / 20MHz / 64QAM | |
|---|---|
| **Lowest Channel / 1RB** | **Lowest Channel / Full RB** |
|  |  |
| **Middle Channel / 1RB** | **Middle Channel / Full RB** |
|  | |
| **Highest Channel / 1RB** | **Highest Channel / Full RB** |
|  |  |

# 26dB Bandwidth

| Mode | LTE Band 2 : 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 | 1.26 | 1.27 | 3.00 | 3.00 | 4.86 | 4.84 | 9.79 | 9.77 | 14.30 | 14.15 | 20.10 | 20.26 |
| Middle CH | 1.28 | 1.30 | 2.99 | 3.15 | 4.89 | 4.93 | 9.73 | 9.99 | 14.30 | 14.30 | 20.22 | 22.10 |
| Highest CH | 1.27 | 1.28 | 3.00 | 3.09 | 4.86 | 4.86 | 9.65 | 9.77 | 14.33 | 14.21 | 20.26 | 20.26 |
| Mode | LTE Band 2 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | 1.24 | | 3.00 | | 4.90 | | 9.83 | | 14.36 | | 20.22 | |
| Middle CH | 1.29 | | 2.97 | | 4.92 | | 9.79 | | 14.36 | | 20.42 | |
| Highest CH | 1.31 | | 3.16 | | 4.89 | | 9.81 | | 14.30 | | 20.30 | |

| Mode | LTE Band 4 : 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 | 1.27 | 1.29 | 2.97 | 2.96 | 4.89 | 4.87 | 9.73 | 9.75 | 14.27 | 14.24 | 20.22 | 20.26 |
| Middle CH | 1.25 | 1.28 | 3.00 | 3.05 | 4.86 | 4.78 | 9.85 | 9.67 | 14.21 | 14.33 | 20.06 | 20.02 |
| Highest CH | 1.26 | 1.27 | 3.00 | 2.97 | 4.85 | 4.87 | 9.75 | 9.83 | 14.33 | 14.33 | 20.10 | 20.10 |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | 1.27 | | 3.00 | | 4.85 | | 9.79 | | 14.30 | | 20.14 | |
| Middle CH | 1.27 | | 3.02 | | 4.84 | | 9.73 | | 14.30 | | 20.02 | |
| Highest CH | 1.26 | | 3.01 | | 4.85 | | 9.87 | | 14.18 | | 20.18 | |

| Mode | LTE Band 5 : 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 | 1.25 | 1.26 | 2.99 | 2.96 | 4.87 | 4.84 | 9.67 | 9.71 | | | | |
| Middle CH | 1.26 | 1.28 | 2.98 | 2.99 | 4.87 | 4.80 | 9.63 | 9.69 | | | | |
| Highest CH | 1.24 | 1.29 | 3.03 | 2.99 | 4.90 | 4.80 | 9.75 | 9.71 | | | | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | 1.26 | | 3.00 | | 4.79 | | 9.77 | | | | | |
| Middle CH | 1.27 | | 2.99 | | 4.87 | | 9.61 | | | | | |
| Highest CH | 1.28 | | 3.00 | | 4.91 | | 9.75 | | | | | |

| Mode | LTE Band 7 : 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 | | | | | 4.78 | 4.82 | 9.73 | 9.75 | 14.45 | 14.36 | 20.06 | 20.06 |
| Middle CH | | | | | 4.89 | 4.85 | 9.73 | 9.71 | 14.48 | 14.18 | 20.14 | 20.26 |
| Highest CH | | | | | 4.84 | 4.87 | 9.85 | 9.75 | 14.27 | 14.51 | 20.14 | 20.30 |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | | | | | 4.91 | | 9.81 | | 14.60 | | 20.06 | |
| Middle CH | | | | | 4.85 | | 9.63 | | 14.51 | | 20.14 | |
| Highest CH | | | | | 4.84 | | 9.83 | | 14.21 | | 20.18 | |

| Mode | LTE Band 38 : 26dB BW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | | | | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | | | | | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | | | | | 4.855 | 4.795 | 9.63 | 9.73 | 14.236 | 14.356 | 20.02 | 20.18 |
| Middle CH | | | | | 4.815 | 4.895 | 9.81 | 9.63 | 14.446 | 14.116 | 20.3 | 20.18 |
| Highest CH | | | | | 4.855 | 4.845 | 9.67 | 9.63 | 14.326 | 14.146 | 20.14 | 20.06 |
| Mode | LTE Band 38 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | | | | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | | | | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | | | | | 4.905 | | 9.87 | | 14.416 | | 20.14 | |
| Middle CH | | | | | 4.865 | | 9.69 | | 14.266 | | 20.1 | |
| Highest CH | | | | | 4.775 | | 9.77 | | 14.296 | | 20.18 | |

| Mode | LTE Band 7 : 26dB BW(MHz) | | | |
|---|---|---|---|---|
| | QPSK | | | |
| BW | 10MHz+20MHz | 15MHz+5MHz | 15MHz+10MHz | 15MHz+15MHz |
| Lowest CH | 29.79 | | 25.175 | 30.45 |
| Middle CH | 29.73 | | 25.025 | 30.509 |
| Highest CH | 29.85 | | 25.025 | 30.45 |
| BW | 15MHz+20MHz | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH | 34.825 | 29.97 | 34.965 | 39.64 |
| Middle CH | 34.755 | 30.03 | 34.825 | 39.56 |
| Highest CH | 34.825 | 29.91 | 35.035 | 39.8 |

| Mode | LTE Band 7 : 26dB BW(MHz) | | | |
|---|---|---|---|---|
| | 16QAM | | | |
| BW | 10MHz+20MHz | 15MHz+5MHz | 15MHz+10MHz | 15MHz+15MHz |
| Lowest CH | 29.67 | | 25.175 | 30.629 |
| Middle CH | 29.91 | | 25.175 | 30.45 |
| Highest CH | 30.09 | | 25.075 | 30.39 |
| BW | 15MHz+20MHz | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH | 34.895 | 29.85 | 34.965 | 39.72 |
| Middle CH | 34.755 | 29.97 | 34.685 | 39.64 |
| Highest CH | 34.755 | 29.85 | 34.965 | 39.64 |

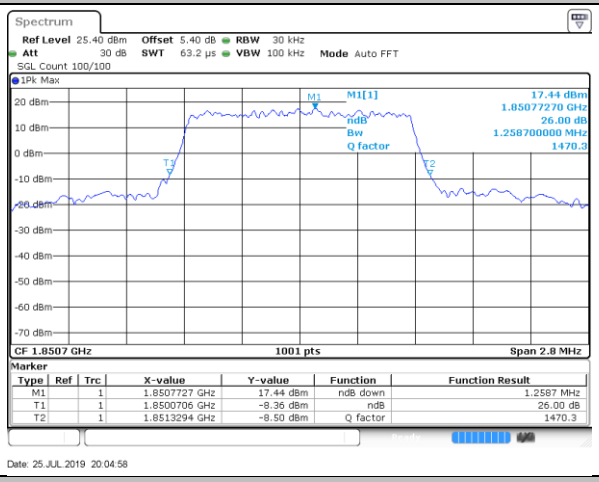
| Mode | LTE Band 7 : 26dB BW(MHz) | | | |
|---|---|---|---|---|
| | 64QAM | | | |
| BW | 10MHz+20MHz | 15MHz+5MHz | 15MHz+10MHz | 15MHz+15MHz |
| Lowest CH | 29.85 | | 25.125 | 30.509 |
| Middle CH | 29.79 | | 24.975 | 30.39 |
| Highest CH | 29.85 | | 25.025 | 30.509 |
| BW | 15MHz+20MHz | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH | 34.825 | 29.91 | 34.685 | 39.8 |
| Middle CH | 34.755 | 29.97 | 35.035 | 39.72 |
| Highest CH | 34.825 | 29.91 | 34.895 | 39.72 |

| Mode | LTE Band 38 : 26dB BW(MHz) | | | |
|---|---|---|---|---|
| Mod. | QPSK | | 16QAM | |
| BW | 15MHz+15MHz | 20MHz+20MHz | 15MHz+15MHz | 20MHz+20MHz |
| Lowest CH | 30.569 | 39.56 | 30.629 | 39.64 |
| Middle CH | 30.569 | 39.8 | 30.509 | 39.8 |
| Highest CH | 30.45 | 39.88 | 30.39 | 39.88 |

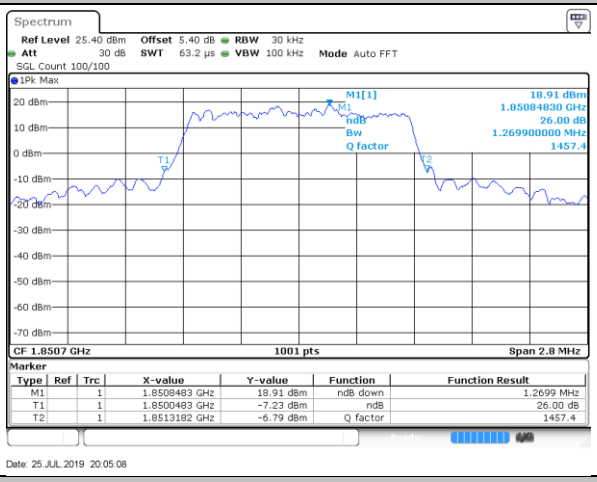
| Mode | LTE Band 38 : 26dB BW(MHz) | | | |
|---|---|---|---|---|
| Mod. | 64QAM | | - | |
| BW | 15MHz+15MHz | 20MHz+20MHz | - | - |
| Lowest CH | 30.45 | 39.8 | - | - |
| Middle CH | 30.45 | 39.56 | - | - |
| Highest CH | 30.45 | 39.64 | - | - |

## LTE Band 2

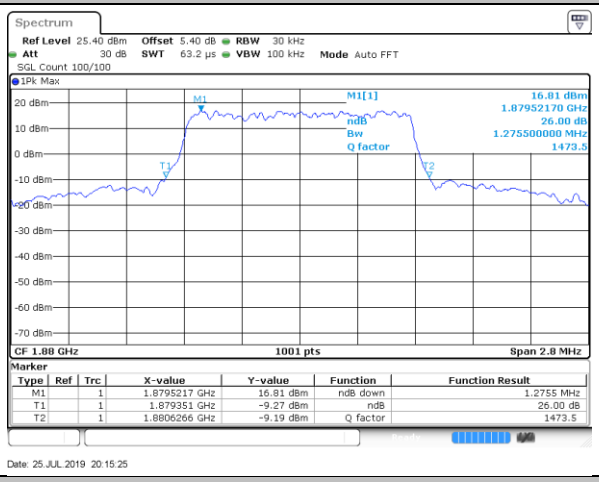
### Lowest Channel / 1.4MHz / QPSK



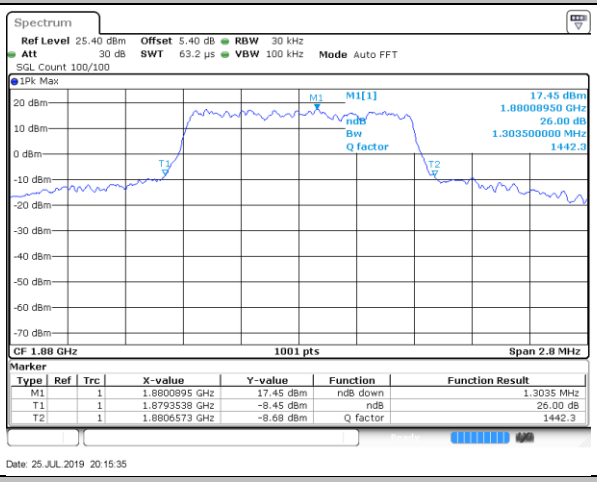

### Lowest Channel / 1.4MHz / 16QAM



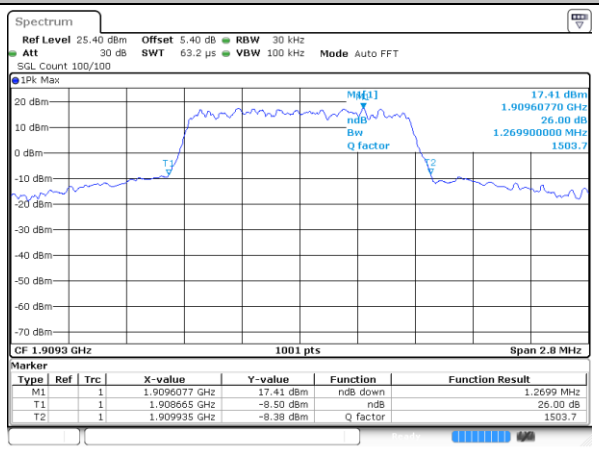

### Middle Channel / 1.4MHz / QPSK



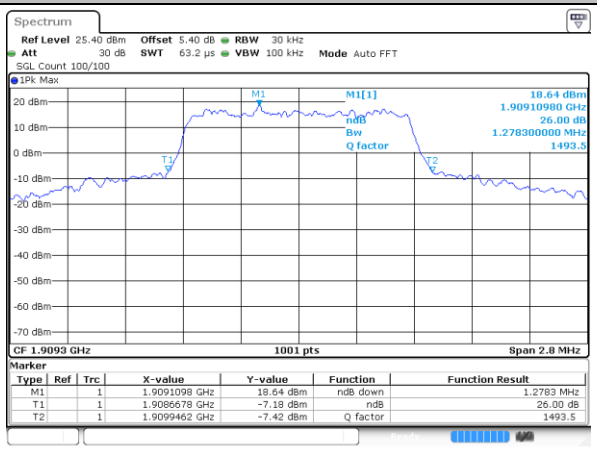

### Middle Channel / 1.4MHz / 16QAM




### Highest Channel / 1.4MHz / QPSK

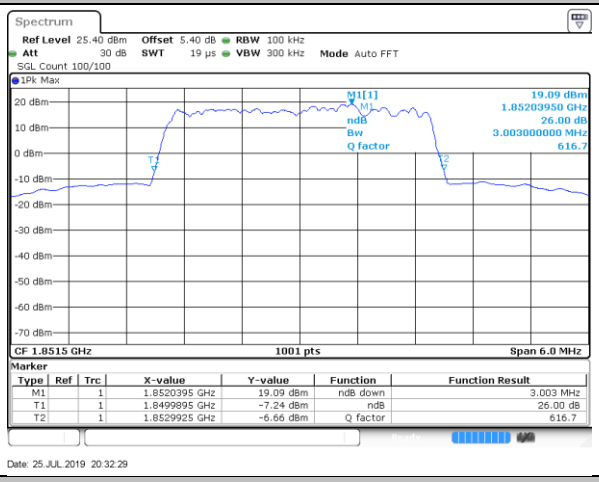



### Highest Channel / 1.4MHz / 16QAM

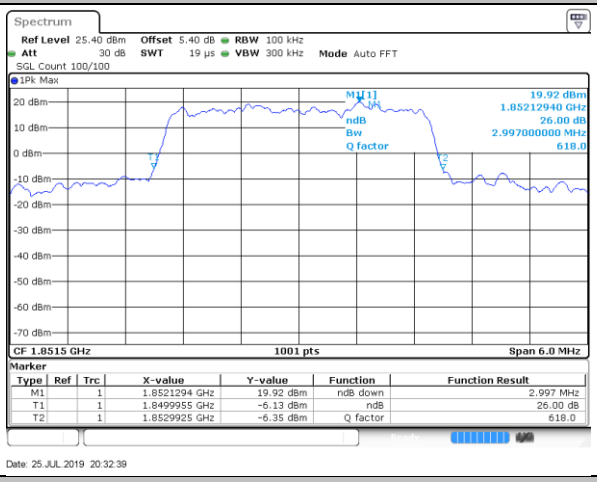


## LTE Band 2

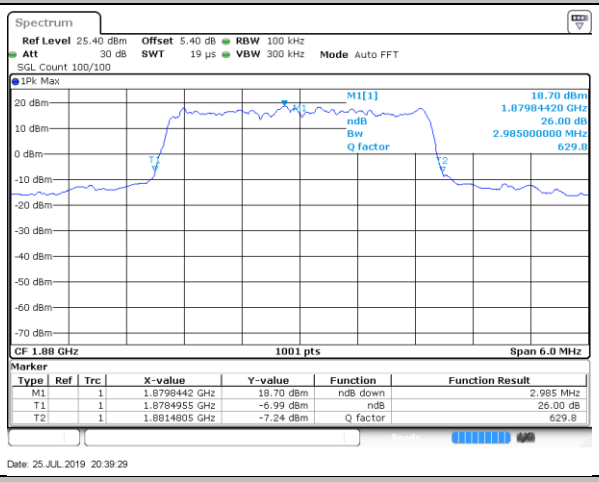
### Lowest Channel / 3MHz / QPSK



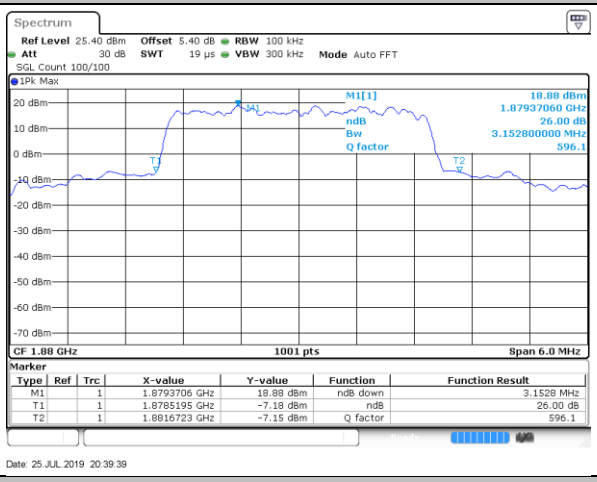

### Lowest Channel / 3MHz / 16QAM



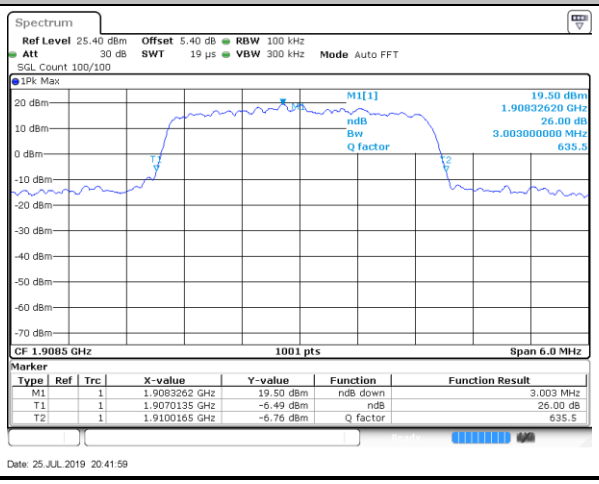

### Middle Channel / 3MHz / QPSK



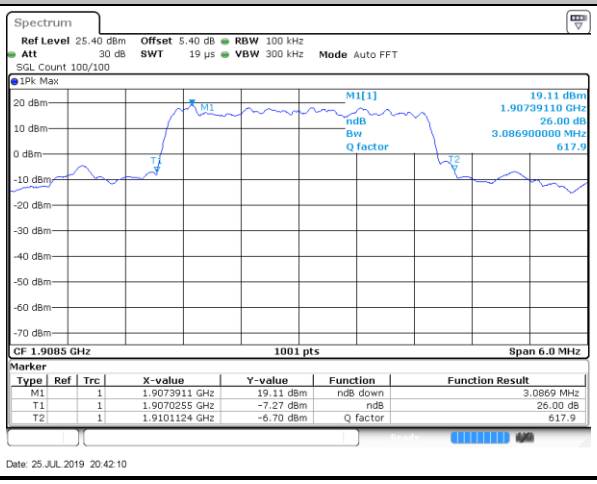

### Middle Channel / 3MHz / 16QAM




### Highest Channel / 3MHz / QPSK

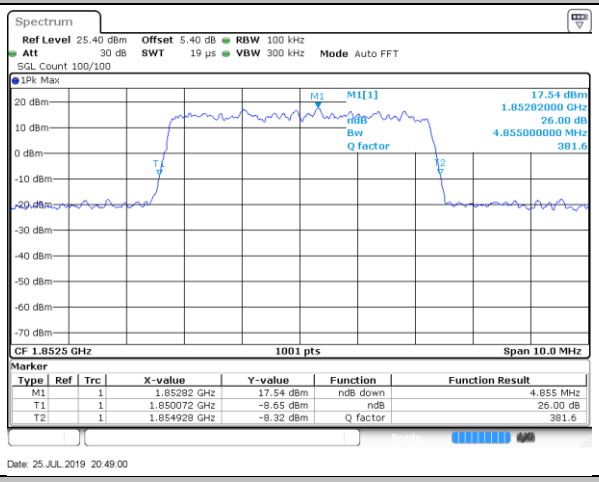



### Highest Channel / 3MHz / 16QAM

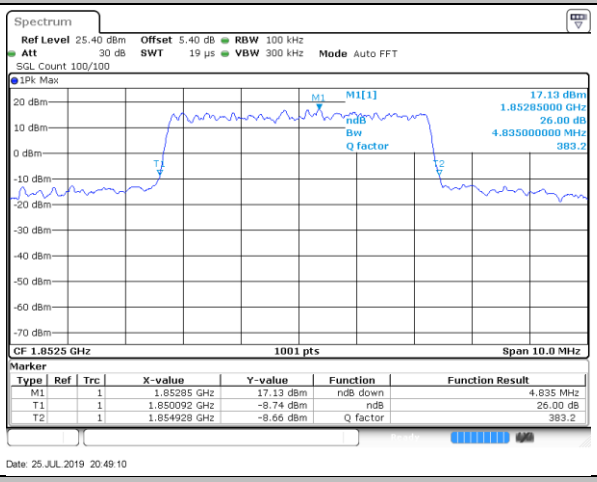


## LTE Band 2

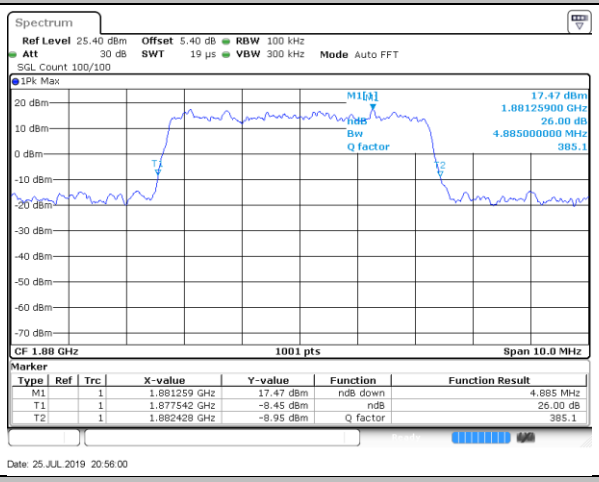
### Lowest Channel / 5MHz / QPSK



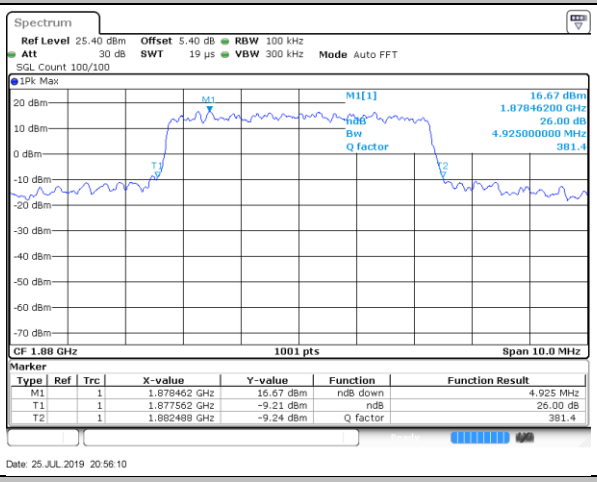

### Lowest Channel / 5MHz / 16QAM



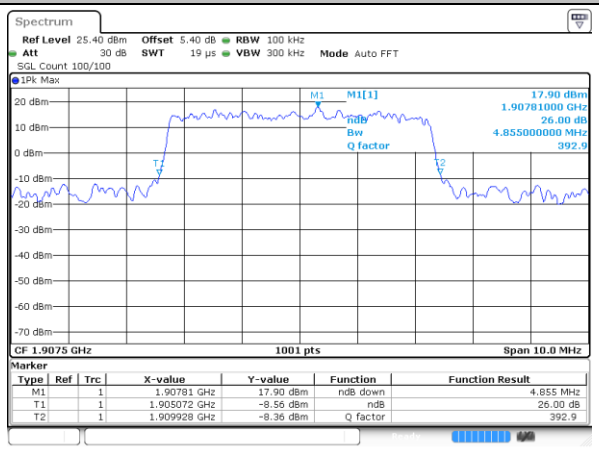

### Middle Channel / 5MHz / QPSK



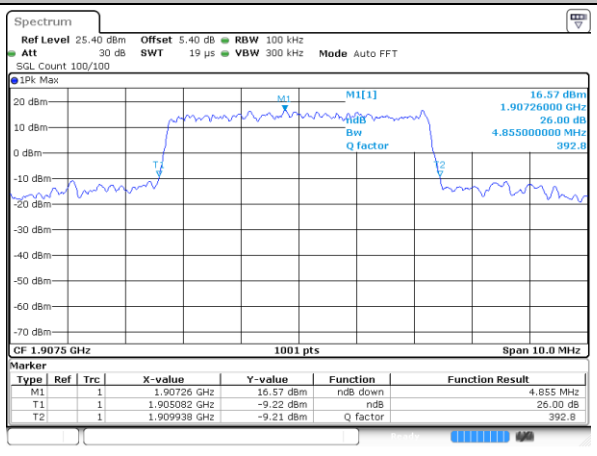

### Middle Channel / 5MHz / 16QAM




### Highest Channel / 5MHz / QPSK

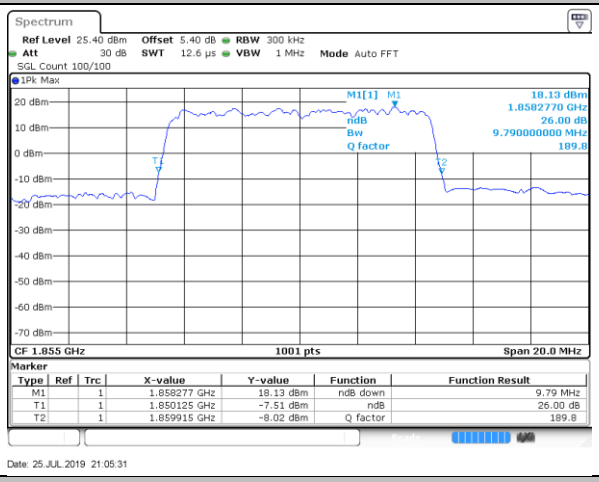



### Highest Channel / 5MHz / 16QAM

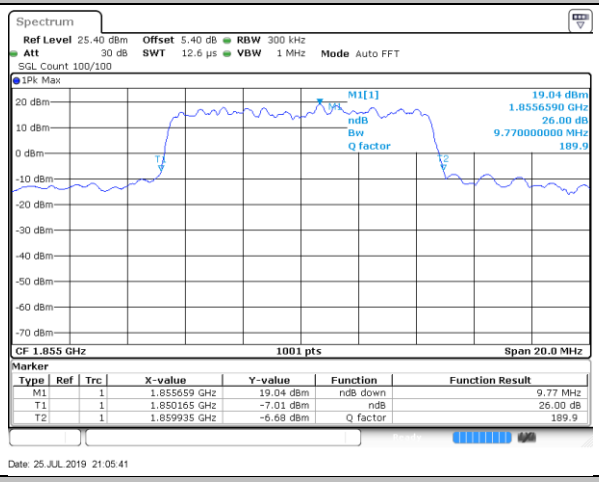


## LTE Band 2

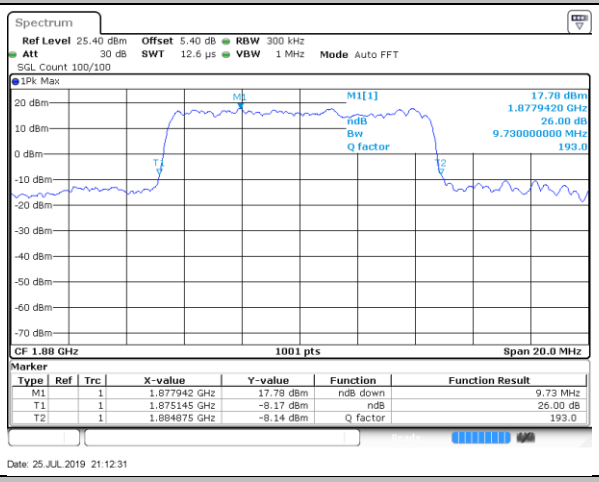
### Lowest Channel / 10MHz / QPSK



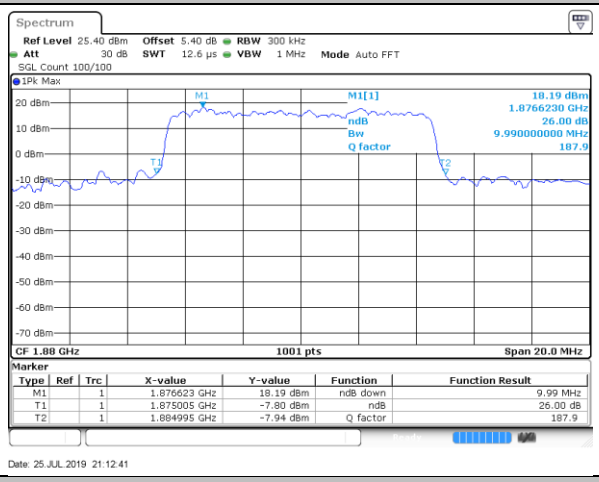

### Lowest Channel / 10MHz / 16QAM



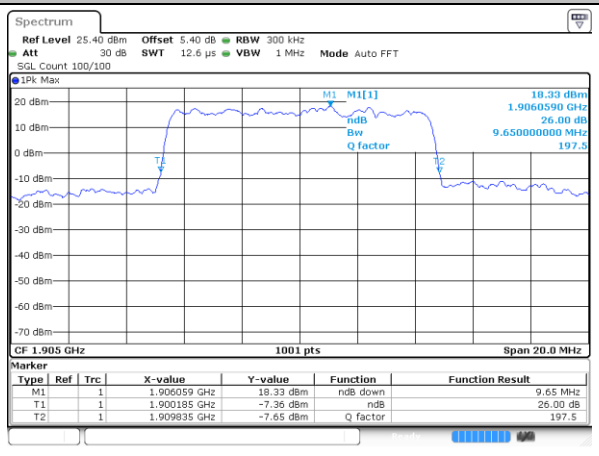

### Middle Channel / 10MHz / QPSK



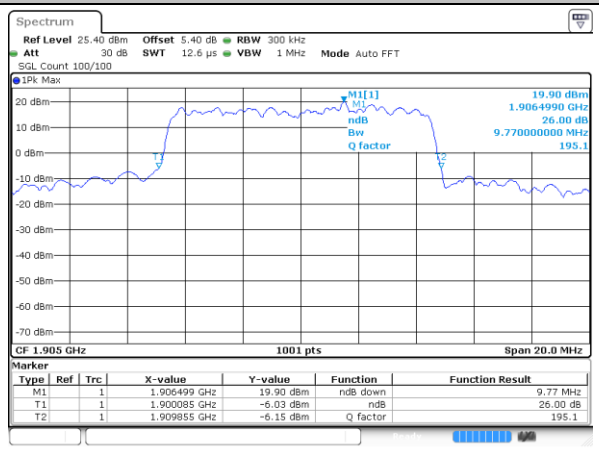

### Middle Channel / 10MHz / 16QAM




### Highest Channel / 10MHz / QPSK

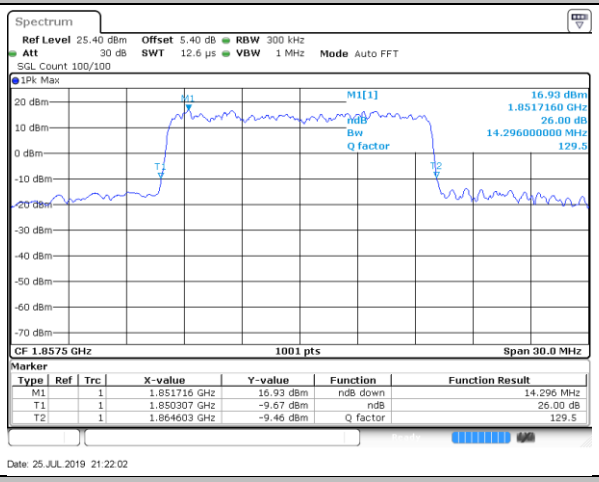



### Highest Channel / 10MHz / 16QAM

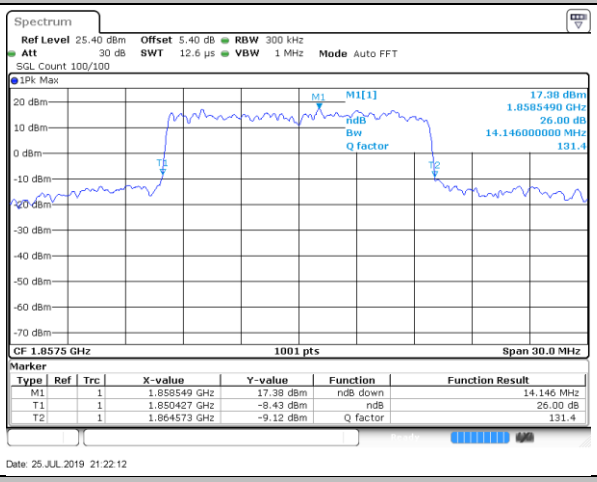


## LTE Band 2

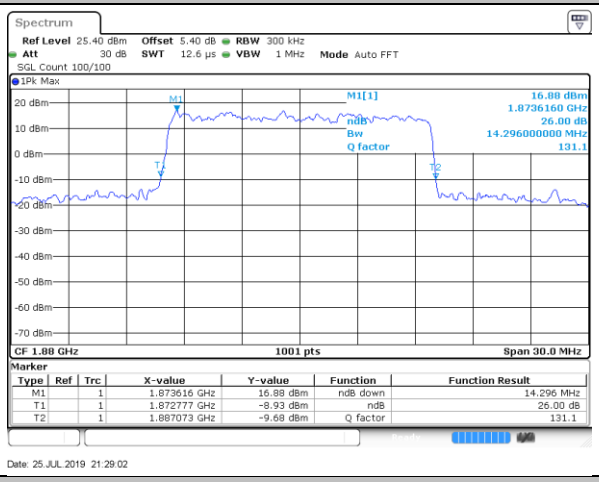
### Lowest Channel / 15MHz / QPSK



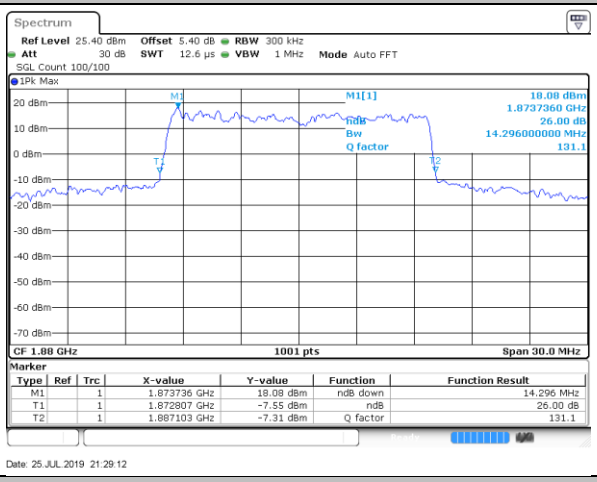

### Lowest Channel / 15MHz / 16QAM



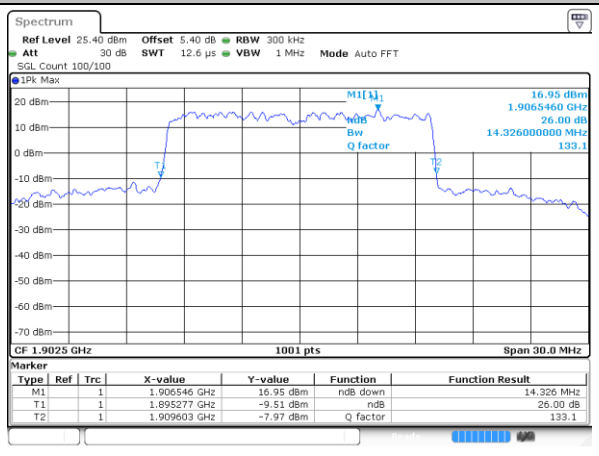

### Middle Channel / 15MHz / QPSK



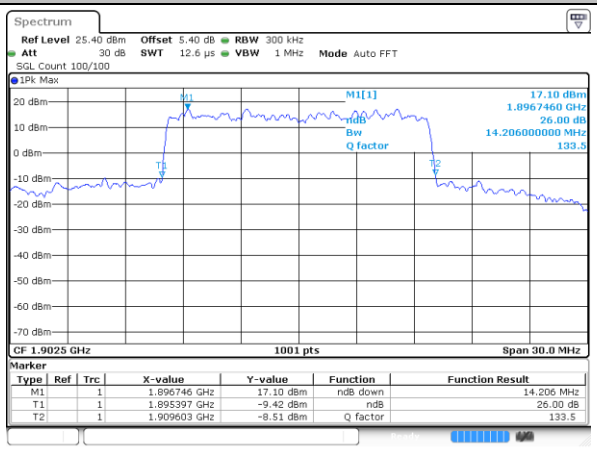

### Middle Channel / 15MHz / 16QAM




### Highest Channel / 15MHz / QPSK

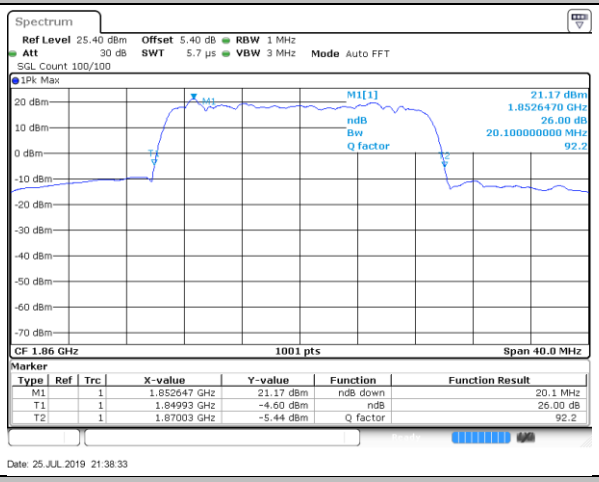



### Highest Channel / 15MHz / 16QAM

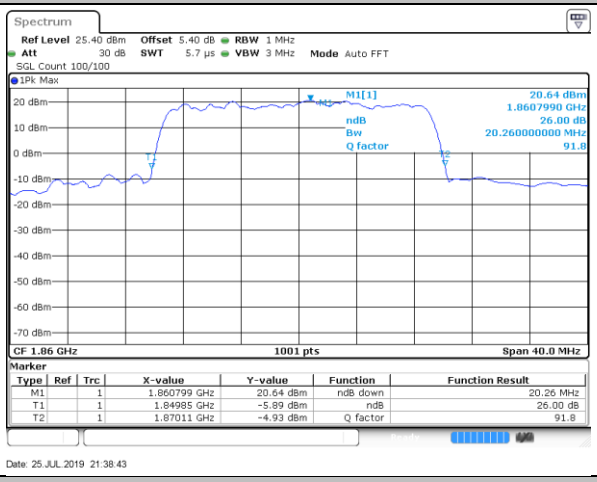


## LTE Band 2

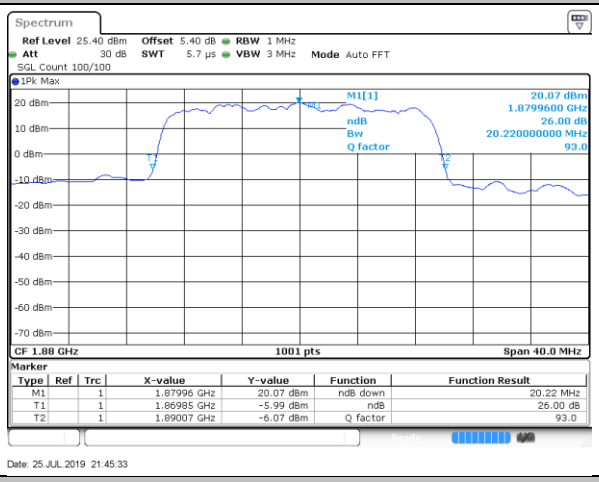
### Lowest Channel / 20MHz / QPSK



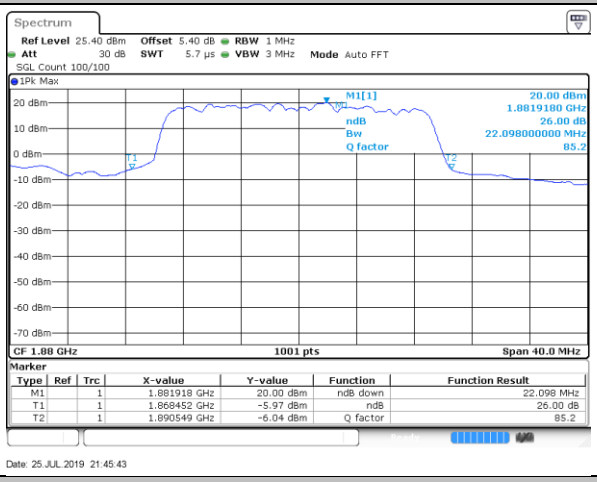

### Lowest Channel / 20MHz / 16QAM



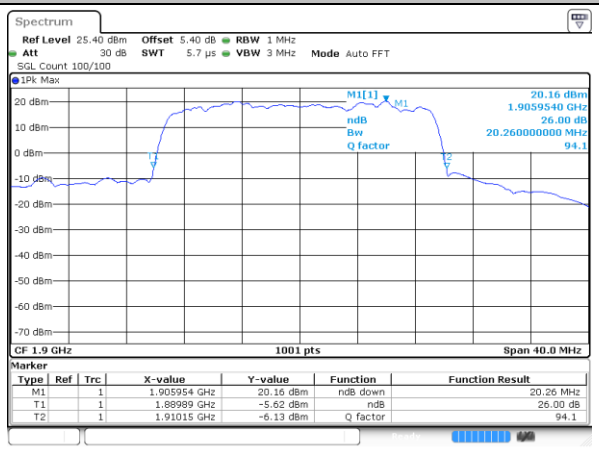

### Middle Channel / 20MHz / QPSK



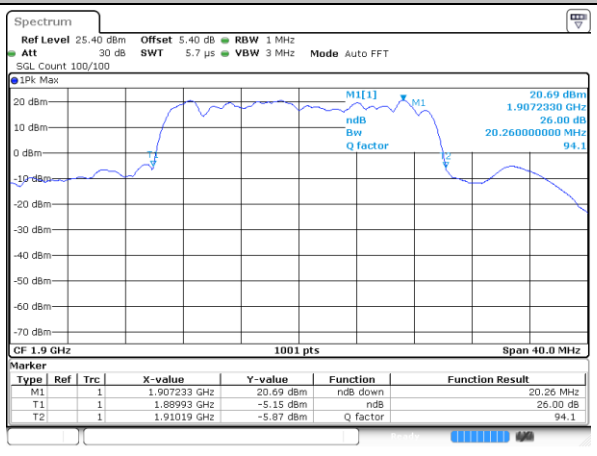

### Middle Channel / 20MHz / 16QAM




### Highest Channel / 20MHz / QPSK

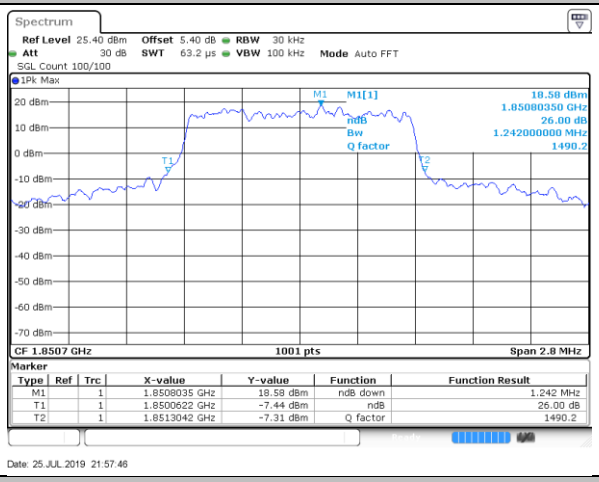



### Highest Channel / 20MHz / 16QAM

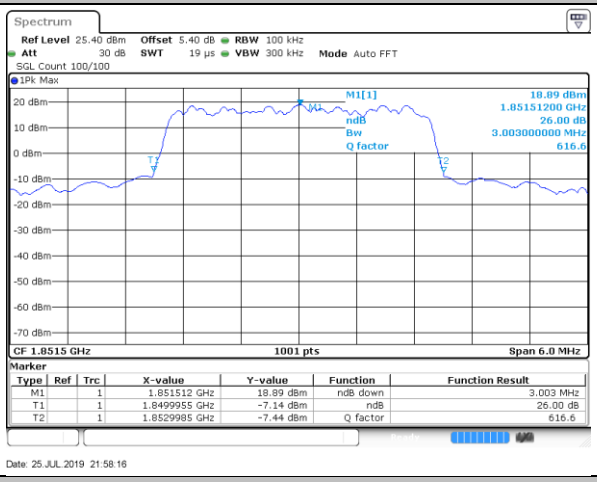


## LTE Band 2

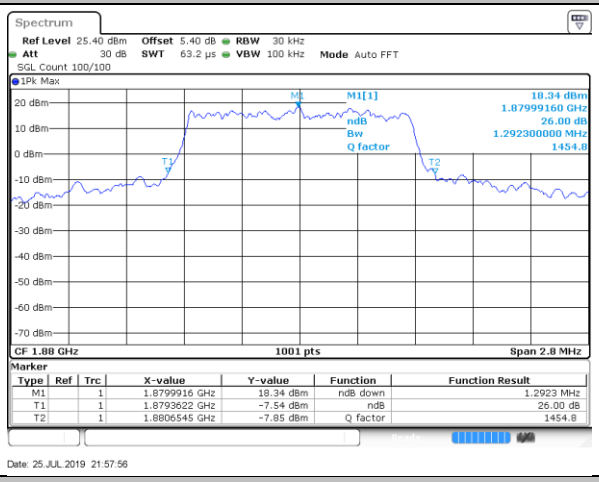
### Lowest Channel / 1.4MHz / 64QAM



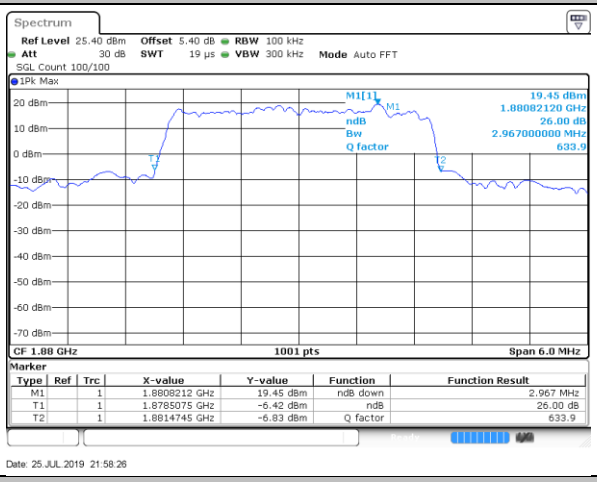

### Lowest Channel / 3MHz / 64QAM



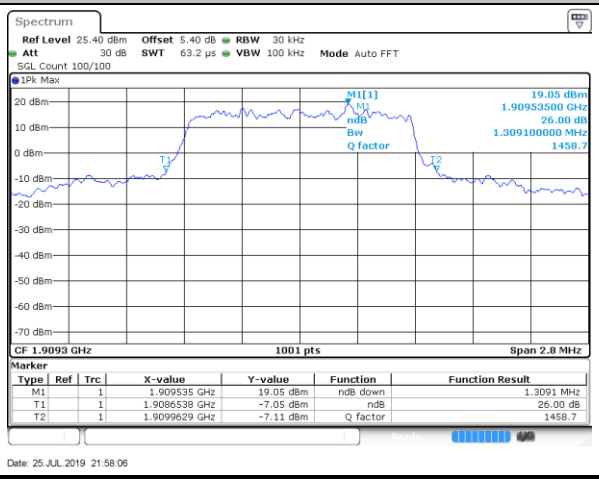

### Middle Channel / 1.4MHz / 64QAM



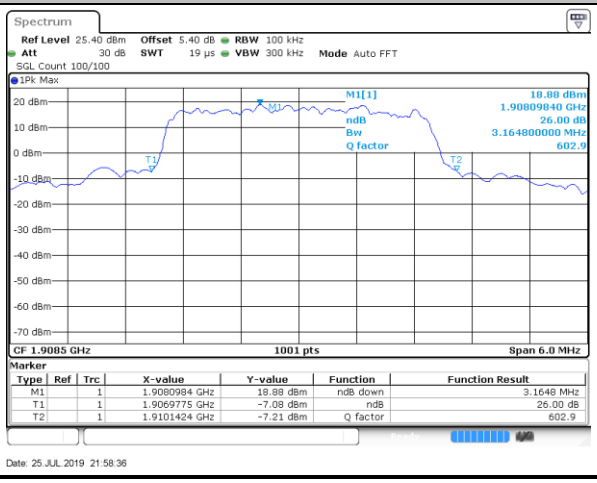

### Middle Channel / 3MHz / 64QAM




### Highest Channel / 1.4MHz / 64QAM

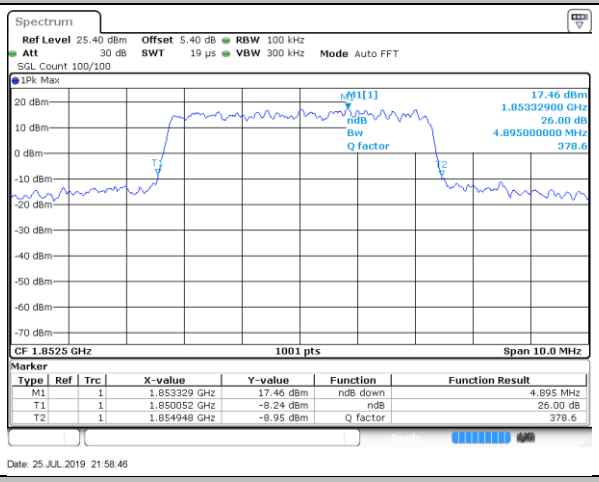



### Highest Channel / 3MHz / 64QAM

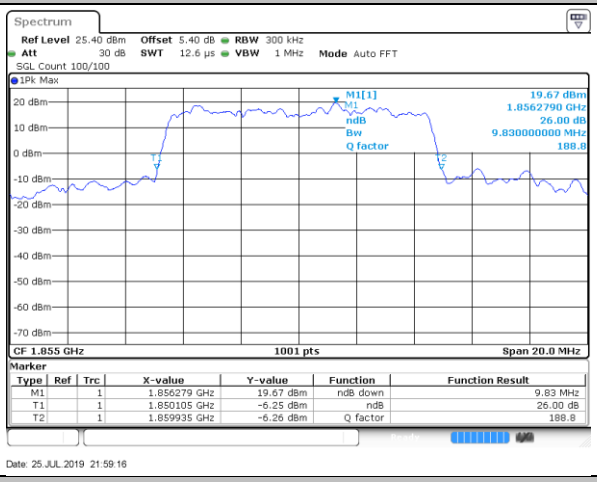


## LTE Band 2

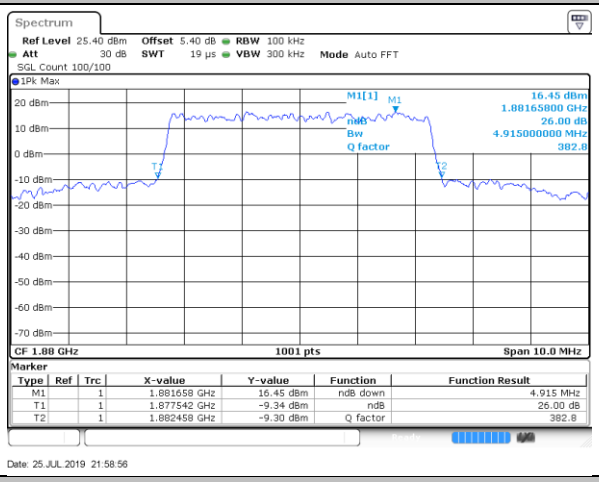
### Lowest Channel / 5MHz / 64QAM



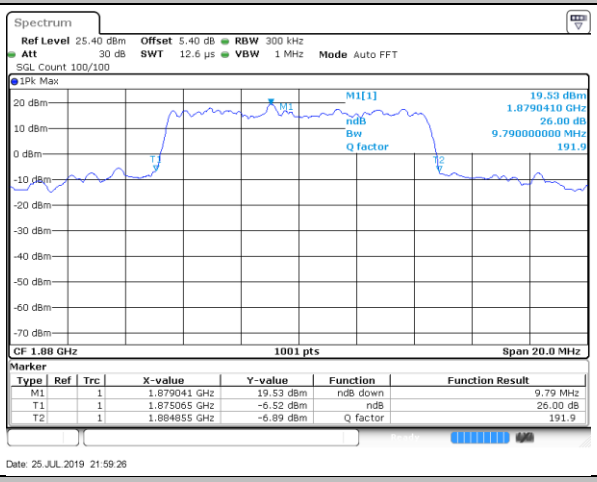

### Lowest Channel / 10MHz / 64QAM



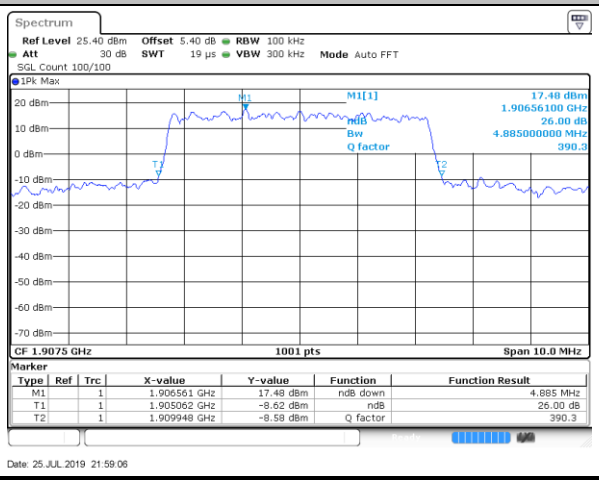

### Middle Channel / 5MHz / 64QAM



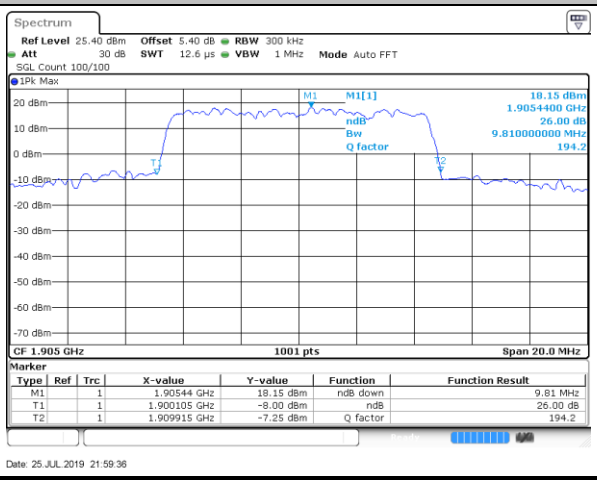

### Middle Channel / 10MHz / 64QAM




### Highest Channel / 5MHz / 64QAM

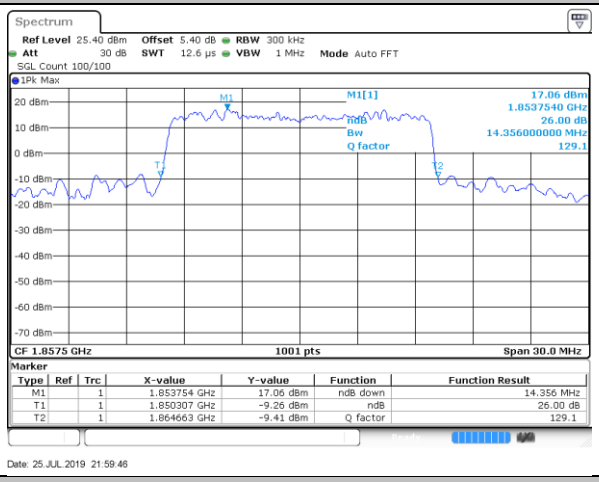



### Highest Channel / 10MHz / 64QAM

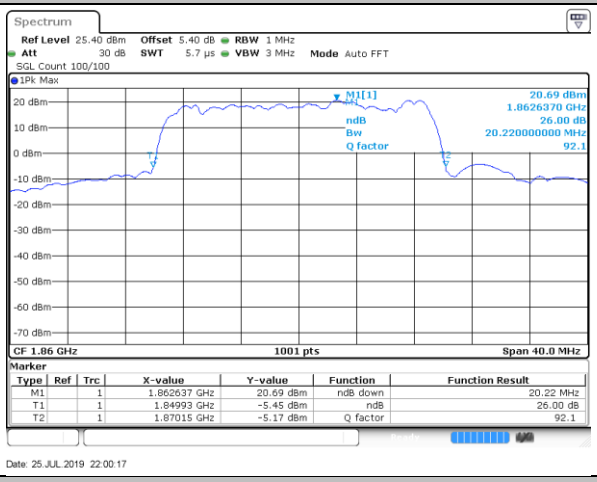


## LTE Band 2

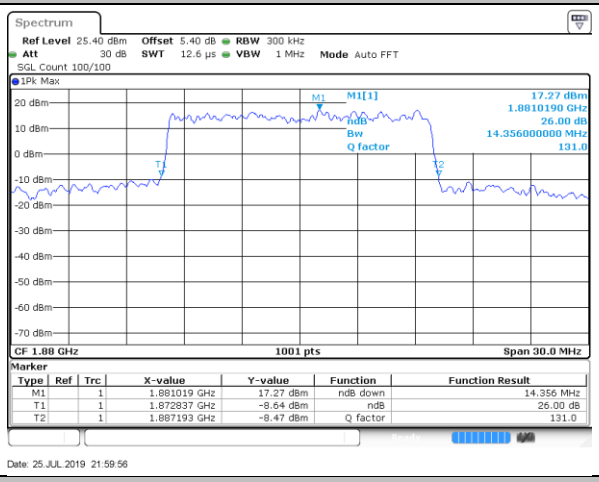
### Lowest Channel / 15MHz / 64QAM



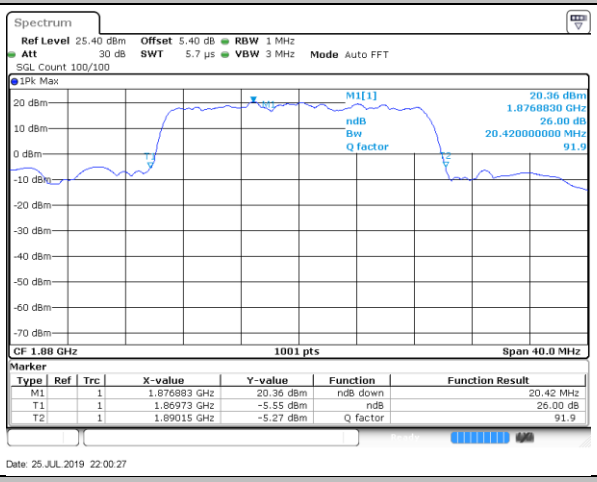

### Lowest Channel / 20MHz / 64QAM



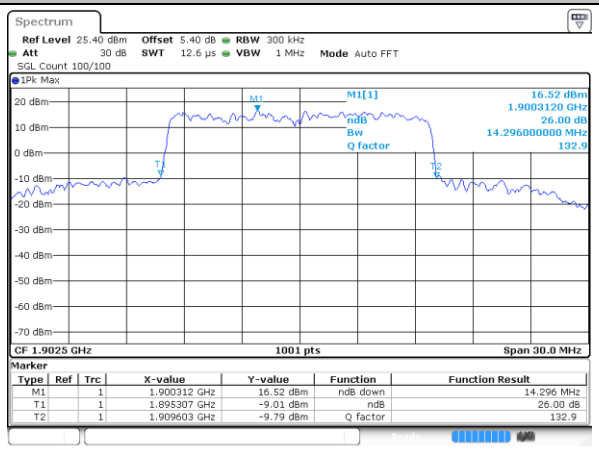

### Middle Channel / 15MHz / 64QAM



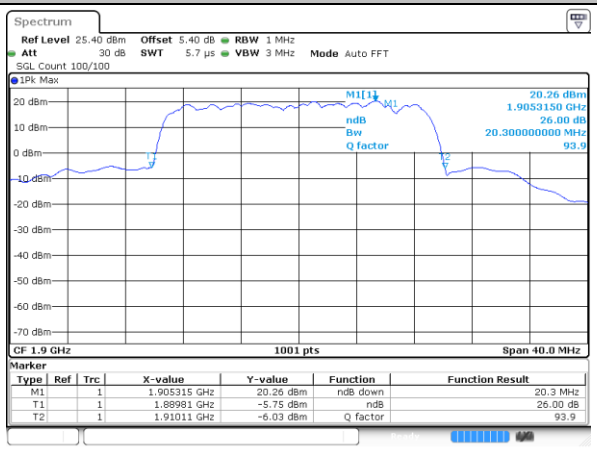

### Middle Channel / 20MHz / 64QAM




### Highest Channel / 15MHz / 64QAM

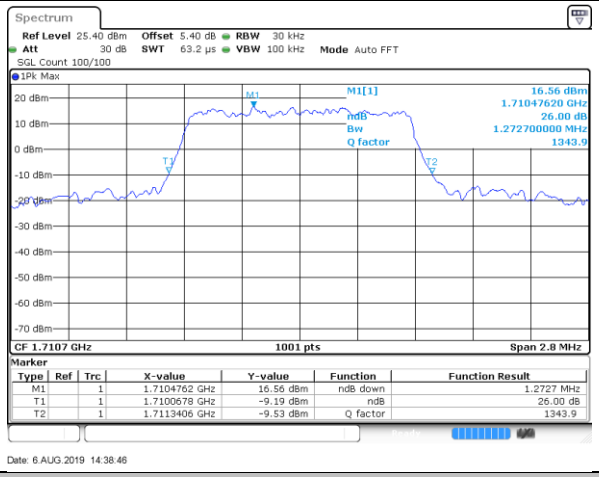



### Highest Channel / 20MHz / 64QAM

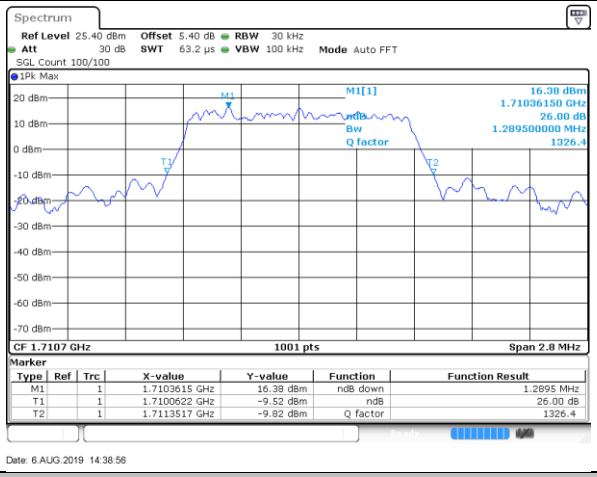


## LTE Band 4

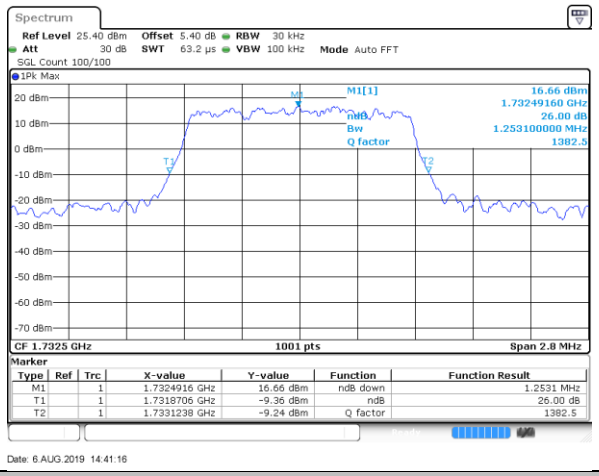
### Lowest Channel / 1.4MHz / QPSK



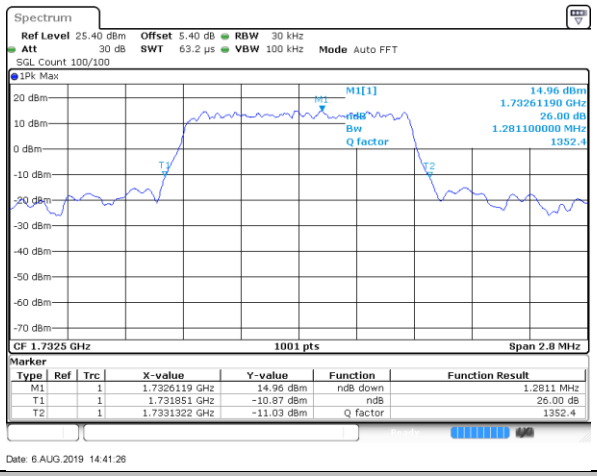

### Lowest Channel / 1.4MHz / 16QAM



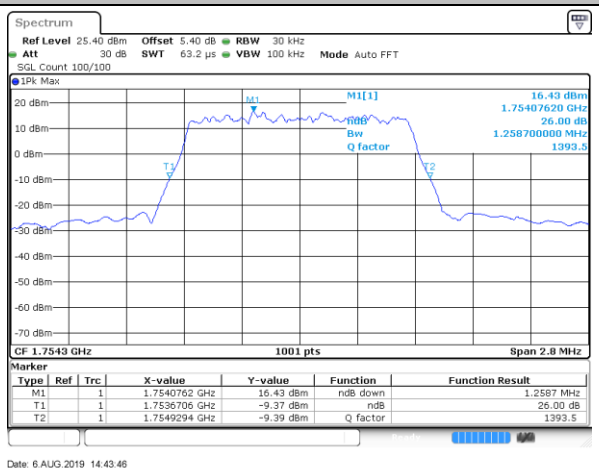

### Middle Channel / 1.4MHz / QPSK



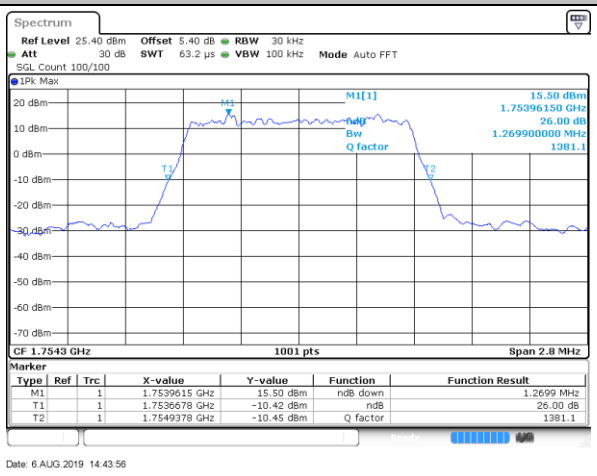

### Middle Channel / 1.4MHz / 16QAM




### Highest Channel / 1.4MHz / QPSK

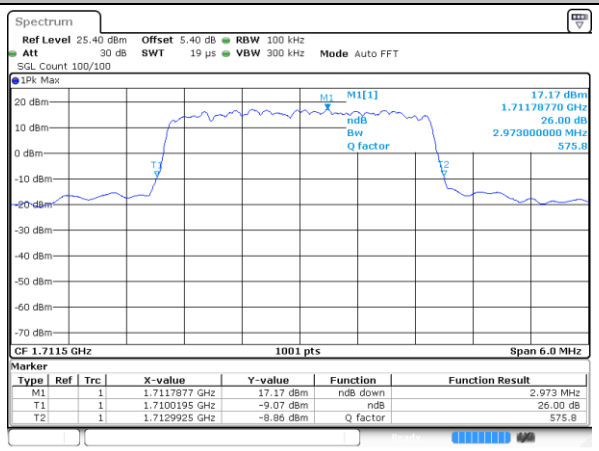



### Highest Channel / 1.4MHz / 16QAM

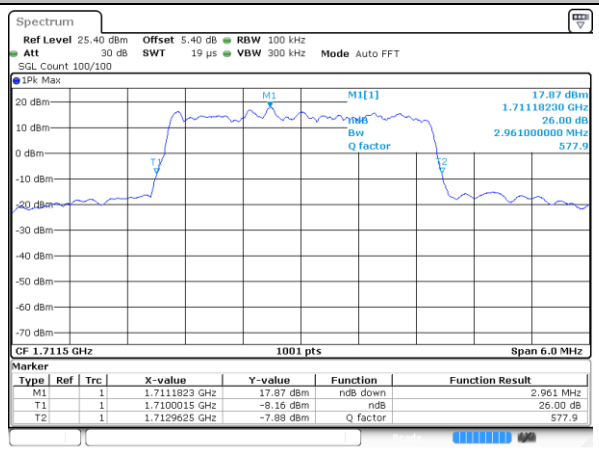


## LTE Band 4

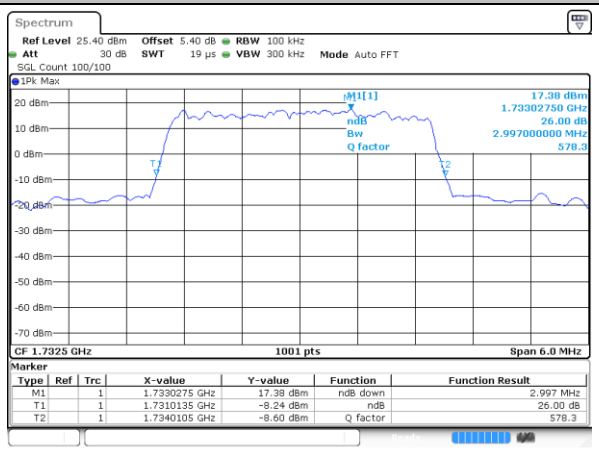
### Lowest Channel / 3MHz / QPSK



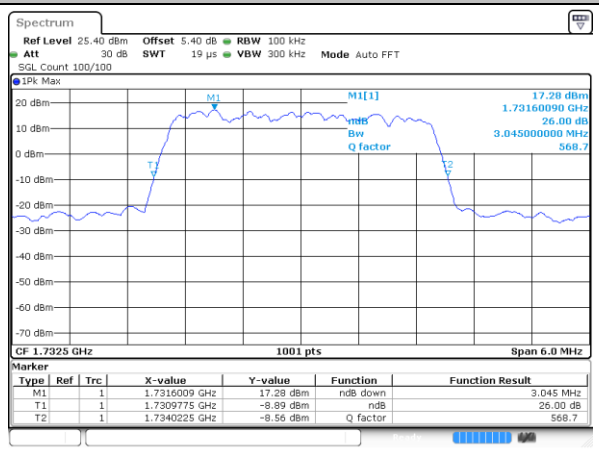

### Lowest Channel / 3MHz / 16QAM



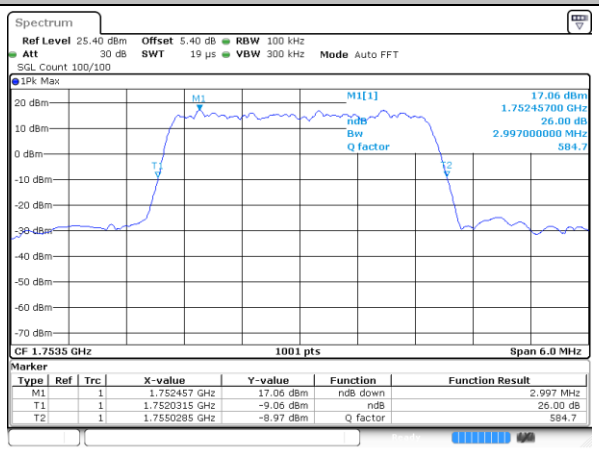

### Middle Channel / 3MHz / QPSK



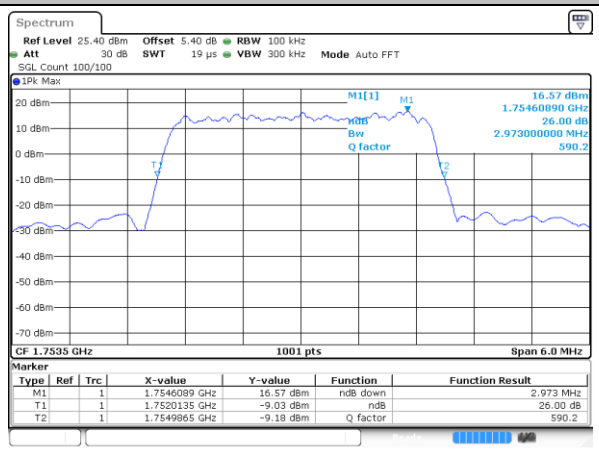

### Middle Channel / 3MHz / 16QAM




### Highest Channel / 3MHz / QPSK

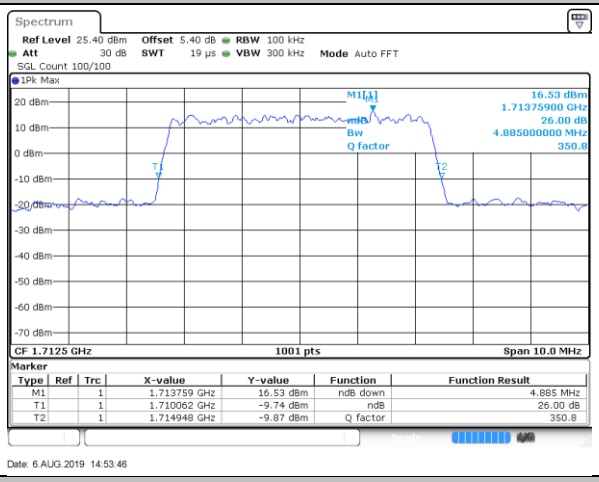



### Highest Channel / 3MHz / 16QAM

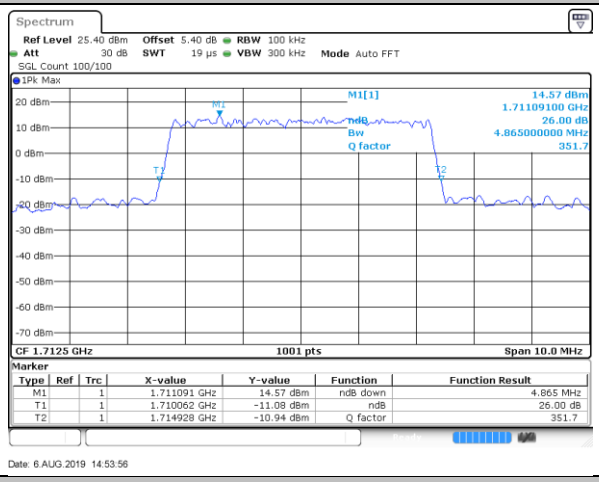


## LTE Band 4

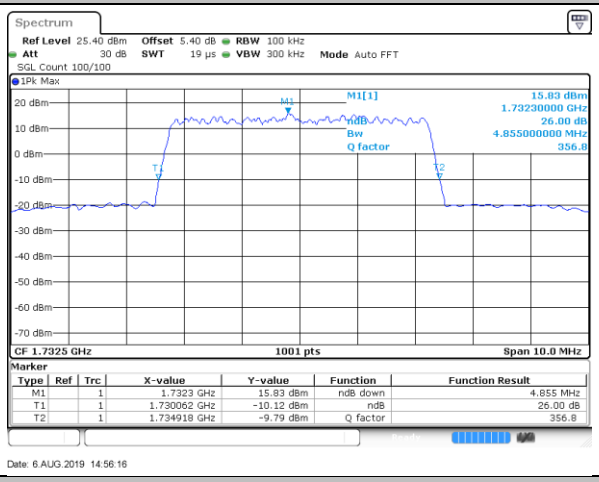
### Lowest Channel / 5MHz / QPSK



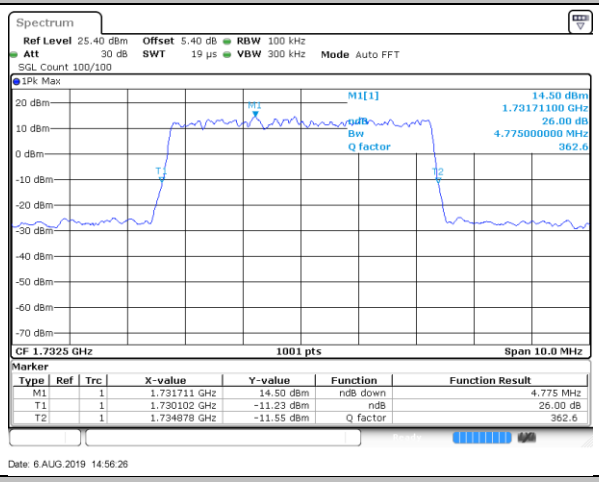

### Lowest Channel / 5MHz / 16QAM



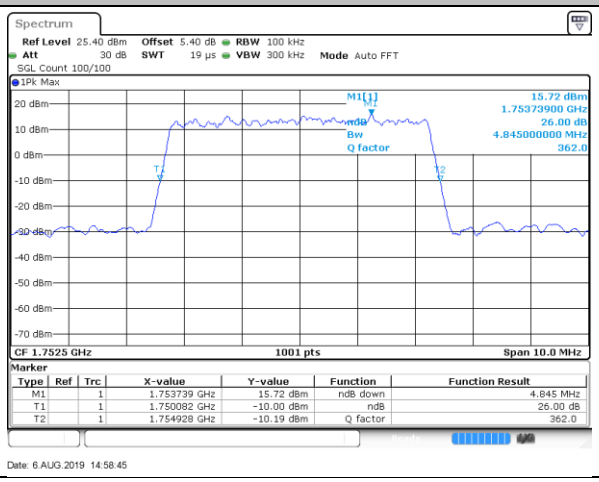

### Middle Channel / 5MHz / QPSK



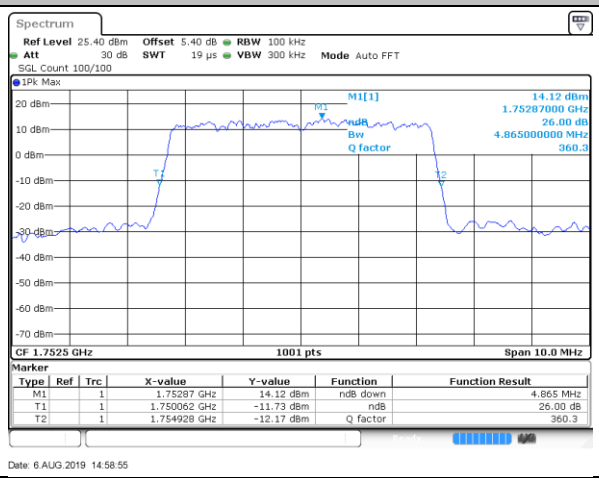

### Middle Channel / 5MHz / 16QAM




### Highest Channel / 5MHz / QPSK

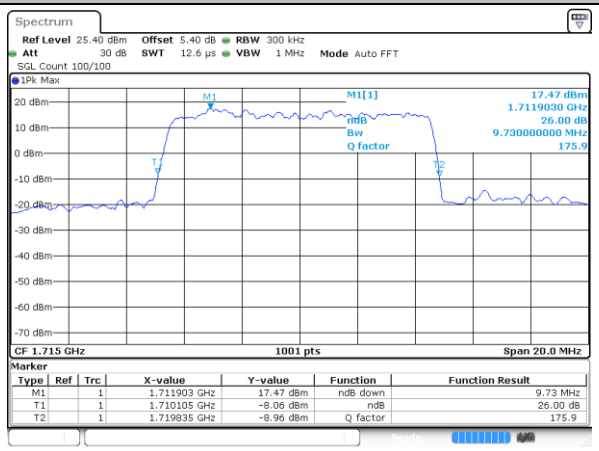



### Highest Channel / 5MHz / 16QAM

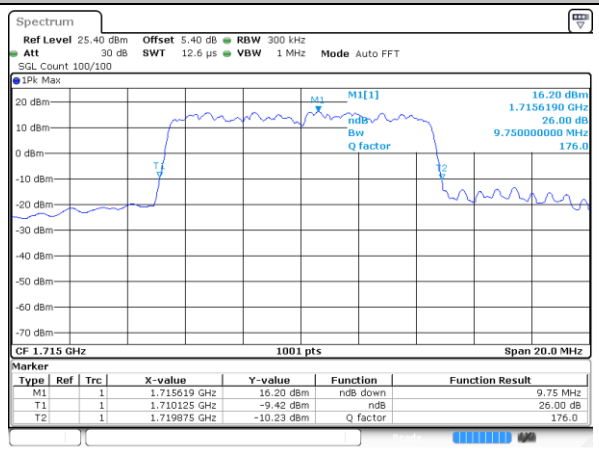


## LTE Band 4

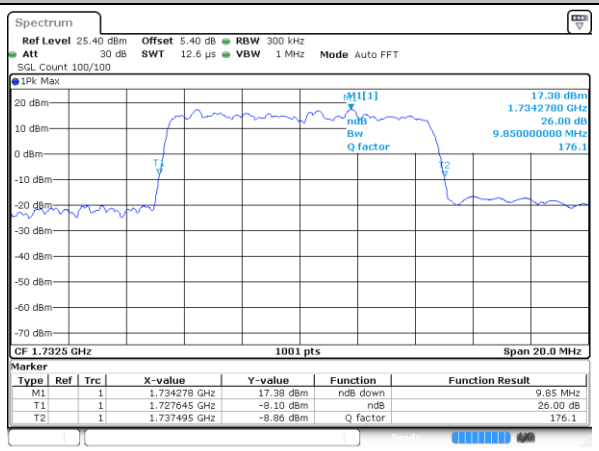
### Lowest Channel / 10MHz / QPSK



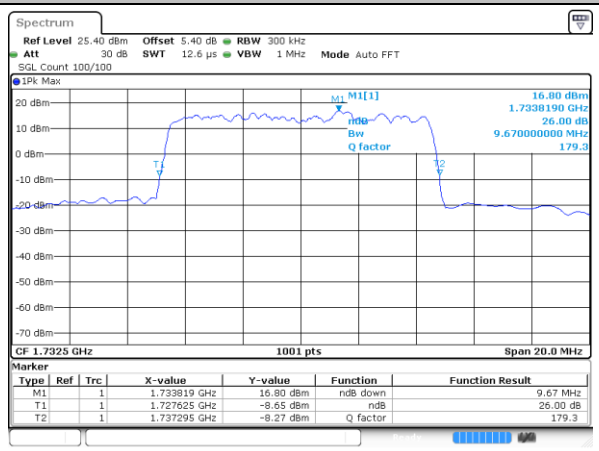

### Lowest Channel / 10MHz / 16QAM



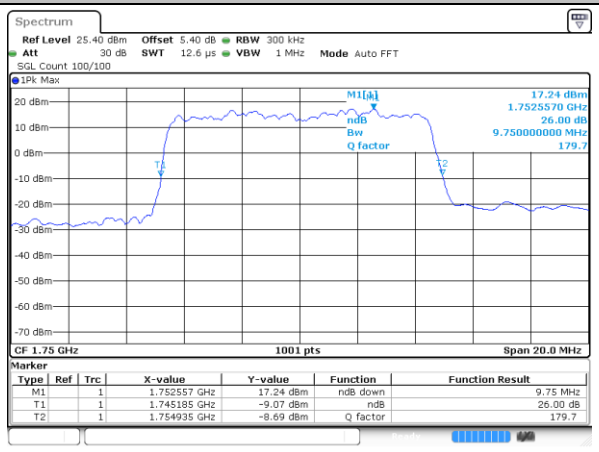

### Middle Channel / 10MHz / QPSK



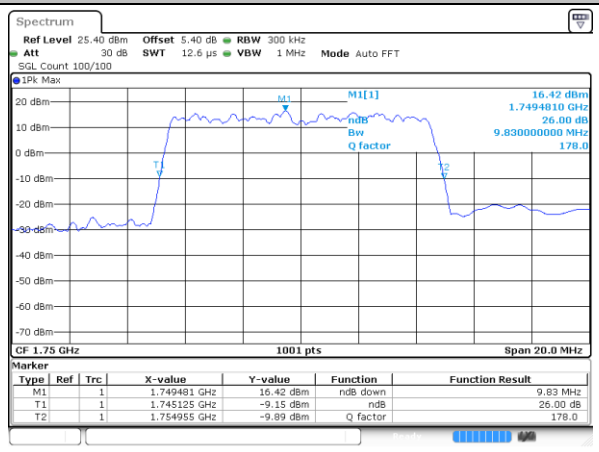

### Middle Channel / 10MHz / 16QAM




### Highest Channel / 10MHz / QPSK

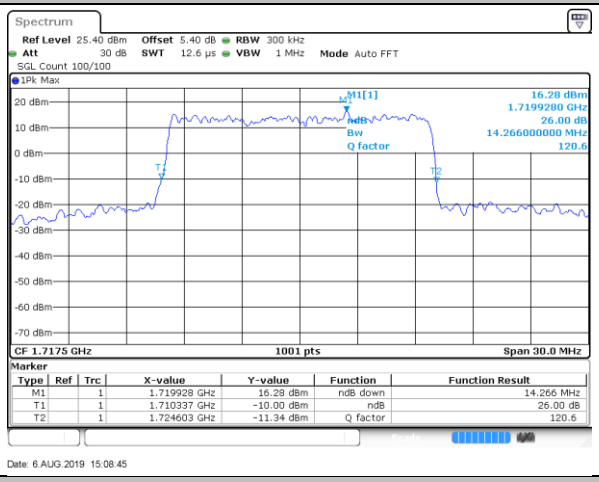



### Highest Channel / 10MHz / 16QAM

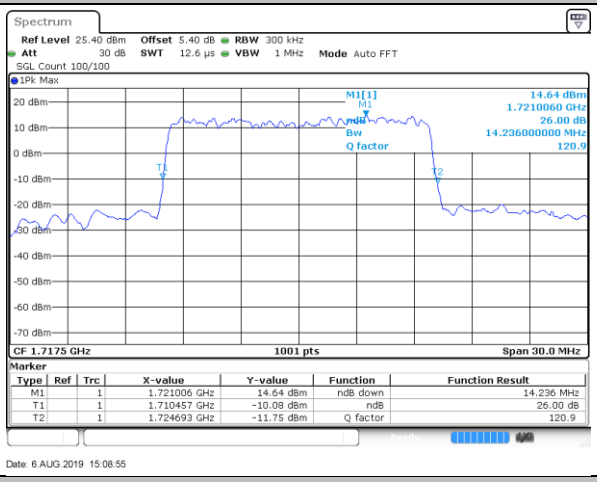


## LTE Band 4

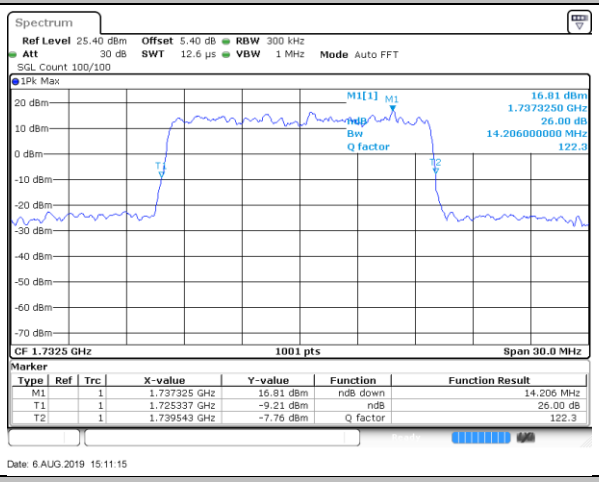
### Lowest Channel / 15MHz / QPSK



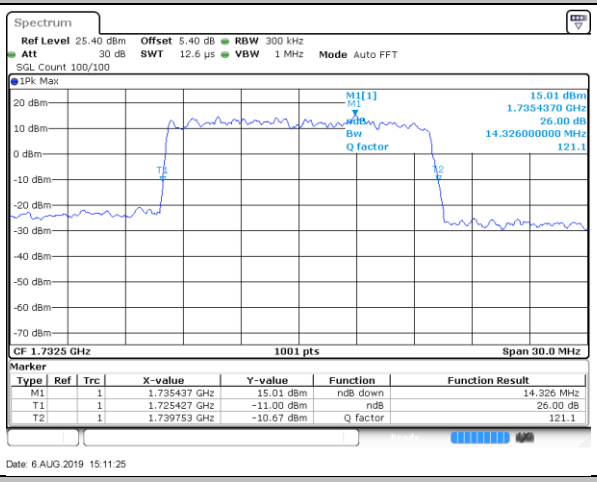

### Lowest Channel / 15MHz / 16QAM



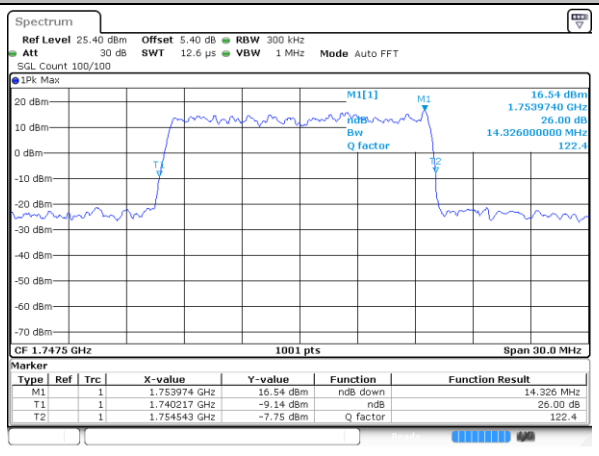

### Middle Channel / 15MHz / QPSK



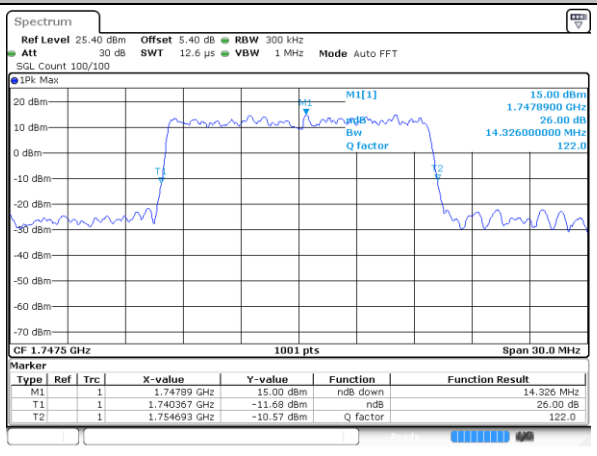

### Middle Channel / 15MHz / 16QAM




### Highest Channel / 15MHz / QPSK

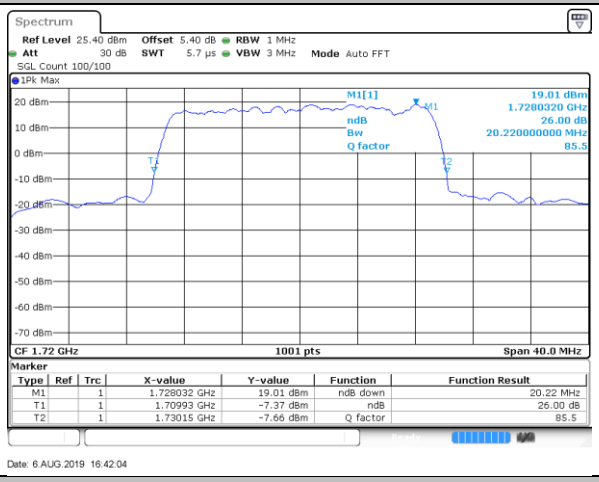



### Highest Channel / 15MHz / 16QAM

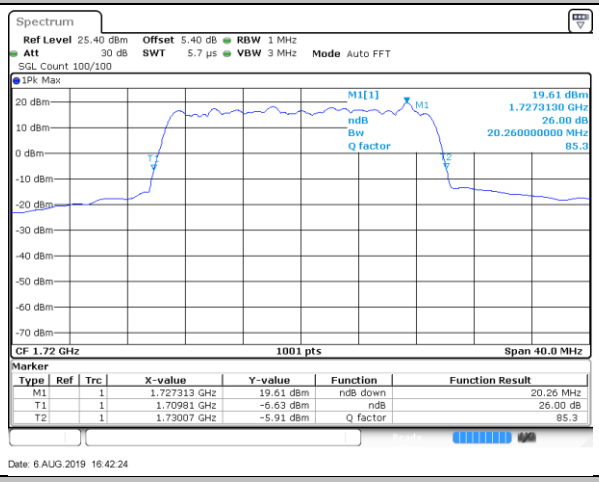


## LTE Band 4

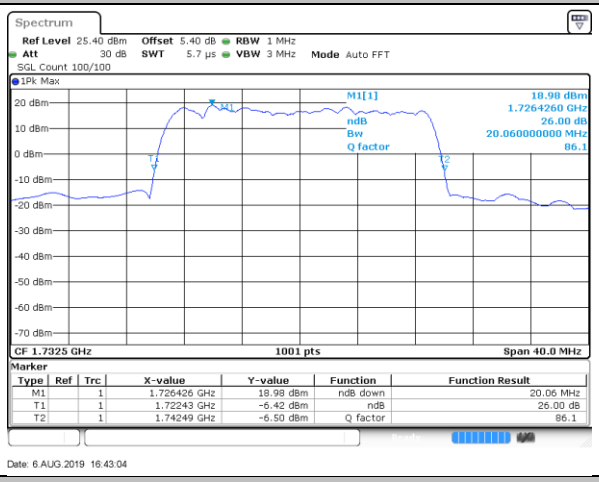
### Lowest Channel / 20MHz / QPSK



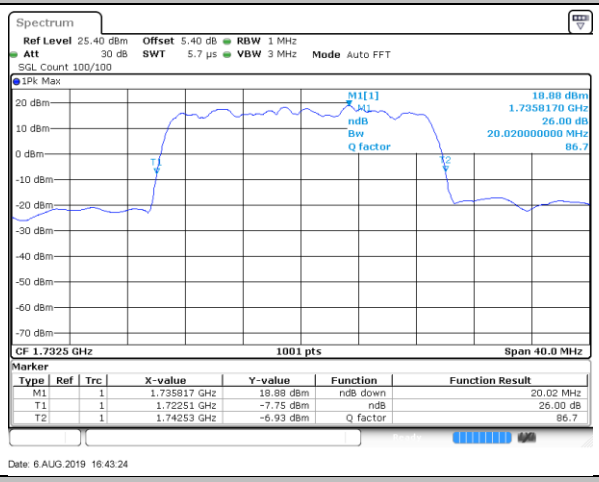

### Lowest Channel / 20MHz / 16QAM



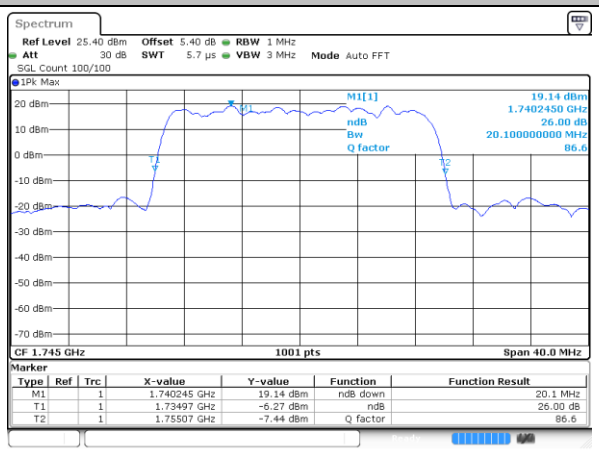

### Middle Channel / 20MHz / QPSK



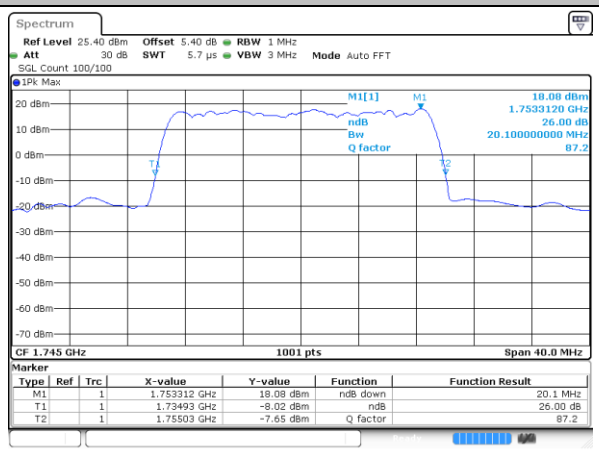

### Middle Channel / 20MHz / 16QAM




### Highest Channel / 20MHz / QPSK

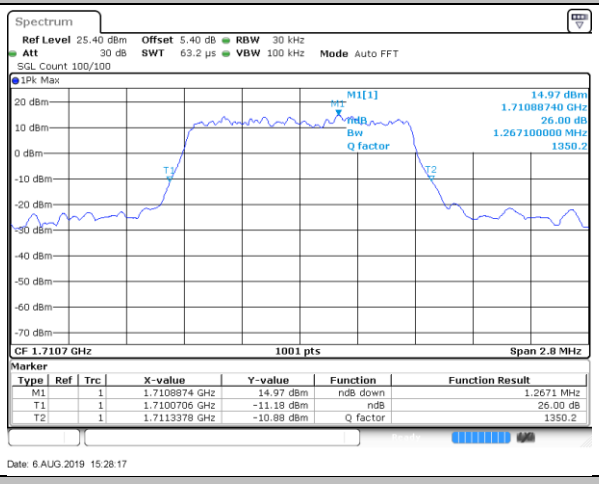



### Highest Channel / 20MHz / 16QAM

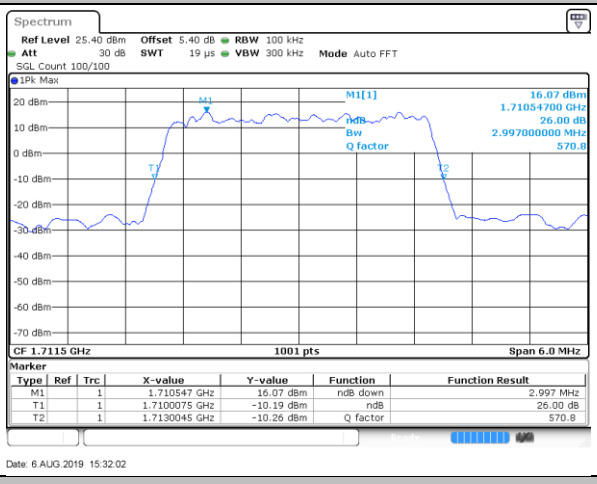


## LTE Band 4

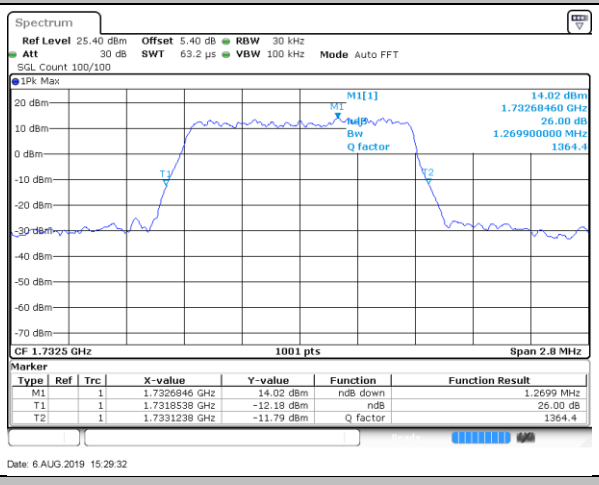
### Lowest Channel / 1.4MHz / 64QAM



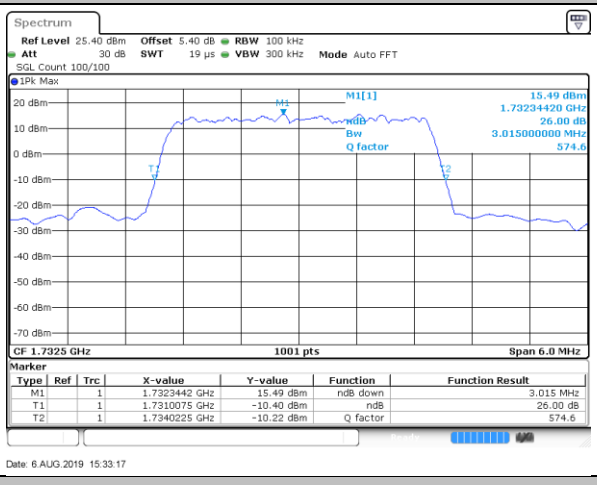

### Lowest Channel / 3MHz / 64QAM



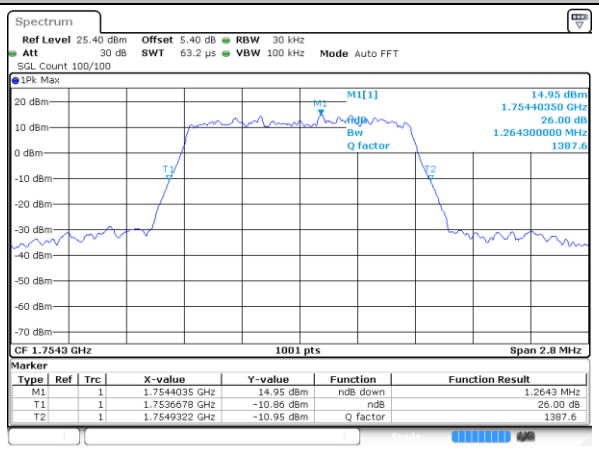

### Middle Channel / 1.4MHz / 64QAM



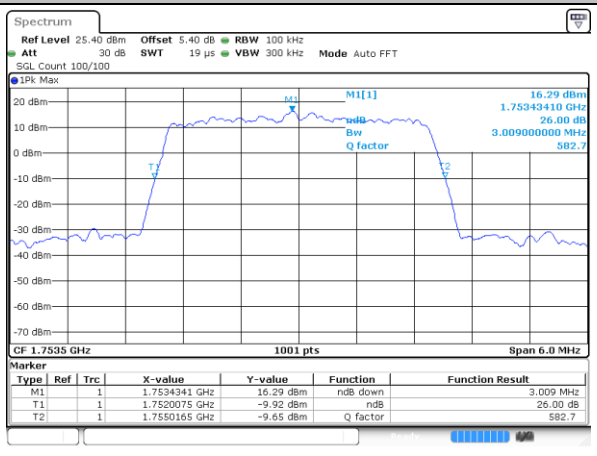

### Middle Channel / 3MHz / 64QAM




### Highest Channel / 1.4MHz / 64QAM

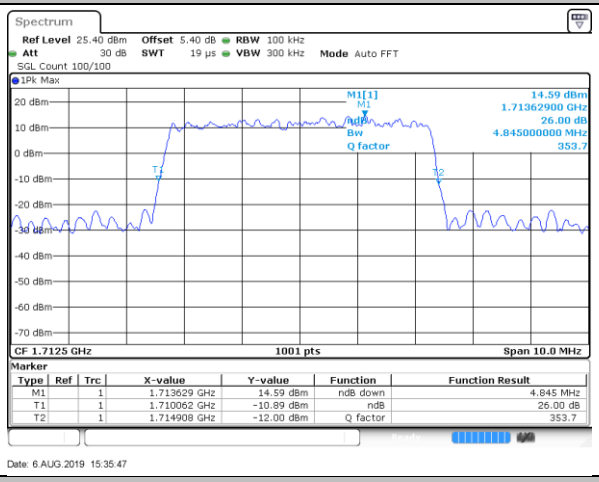



### Highest Channel / 3MHz / 64QAM

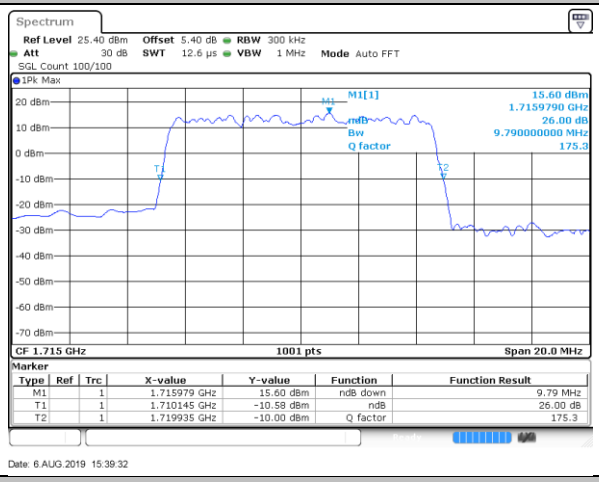


## LTE Band 4

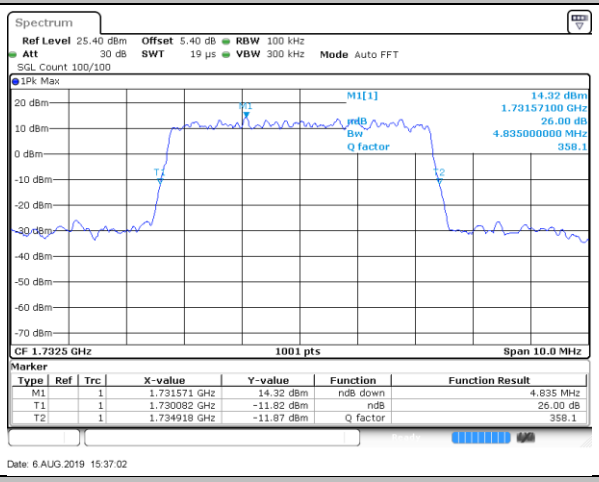
### Lowest Channel / 5MHz / 64QAM



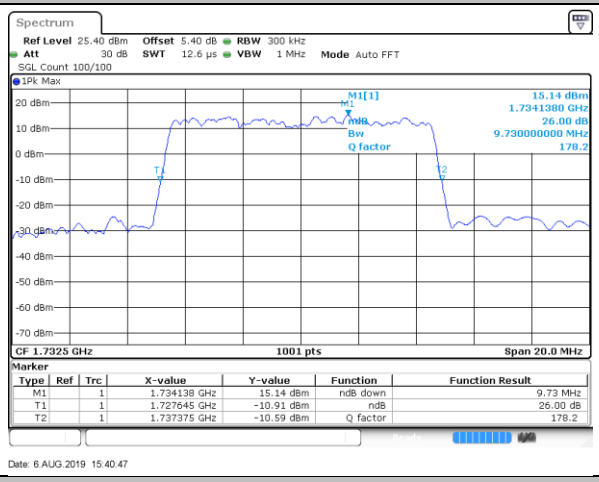

### Lowest Channel / 10MHz / 64QAM



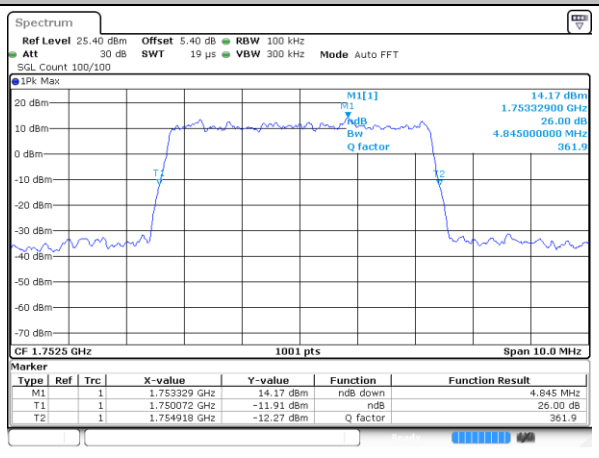

### Middle Channel / 5MHz / 64QAM



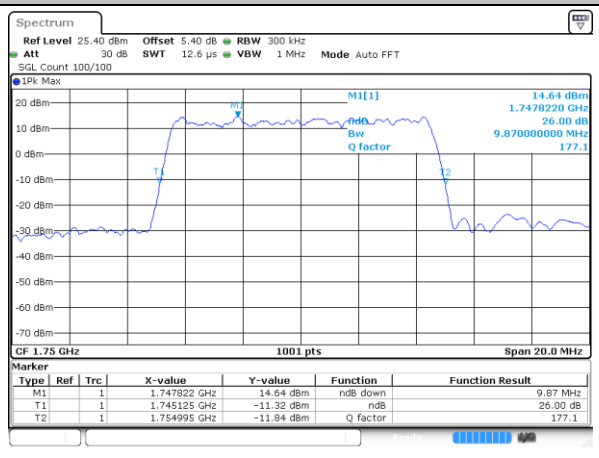

### Middle Channel / 10MHz / 64QAM




### Highest Channel / 5MHz / 64QAM

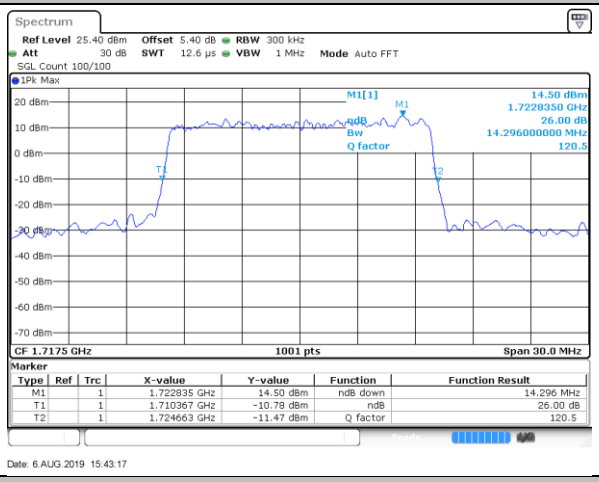



### Highest Channel / 10MHz / 64QAM

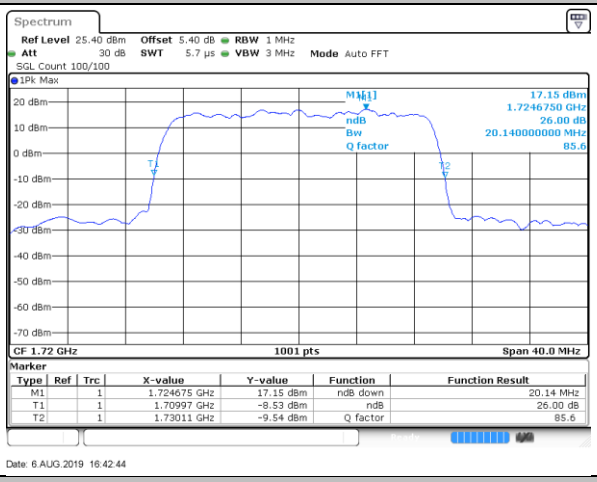


## LTE Band 4

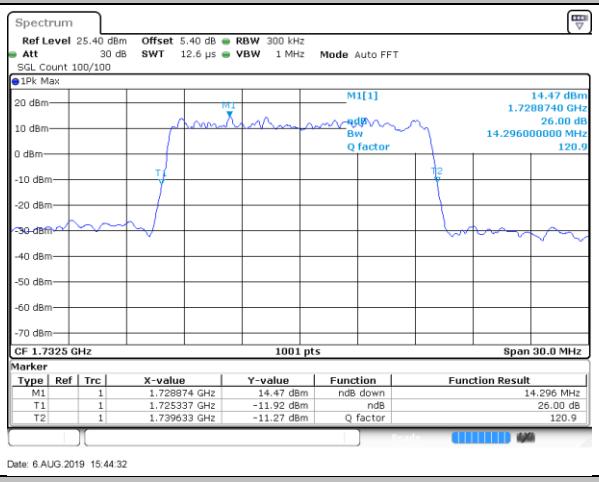
### Lowest Channel / 15MHz / 64QAM



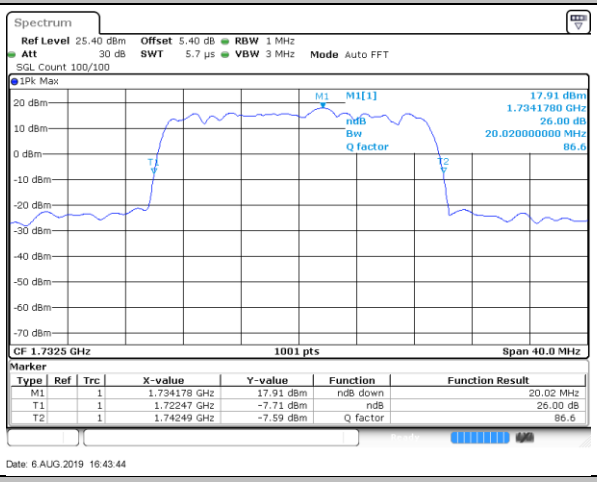

### Lowest Channel / 20MHz / 64QAM



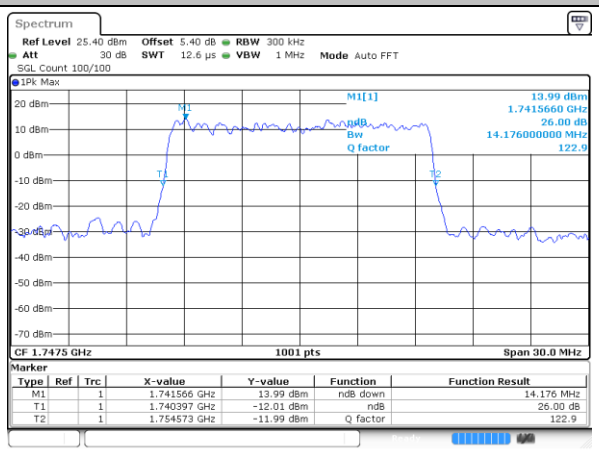

### Middle Channel / 15MHz / 64QAM



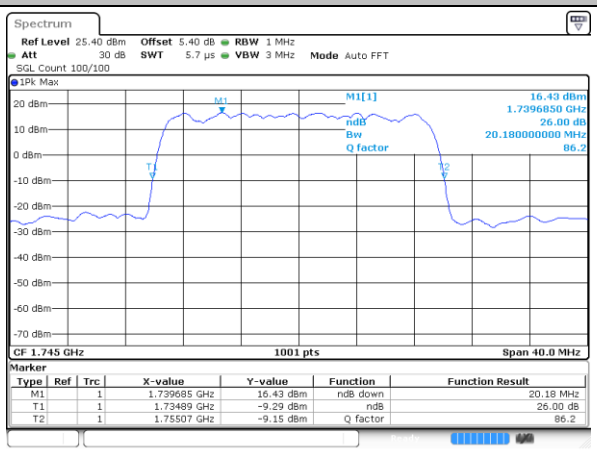

### Middle Channel / 20MHz / 64QAM




### Highest Channel / 15MHz / 64QAM

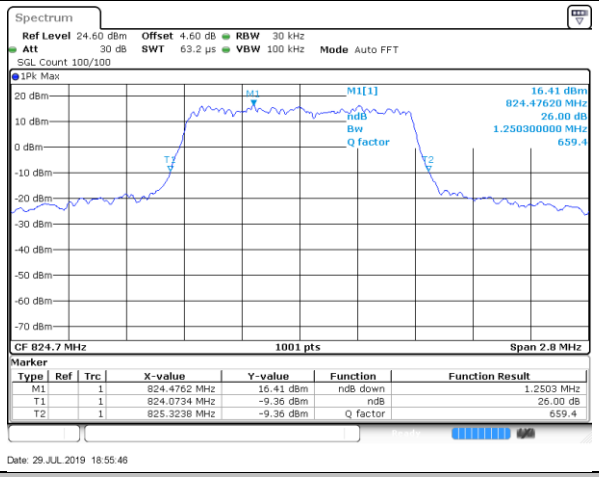



### Highest Channel / 20MHz / 64QAM

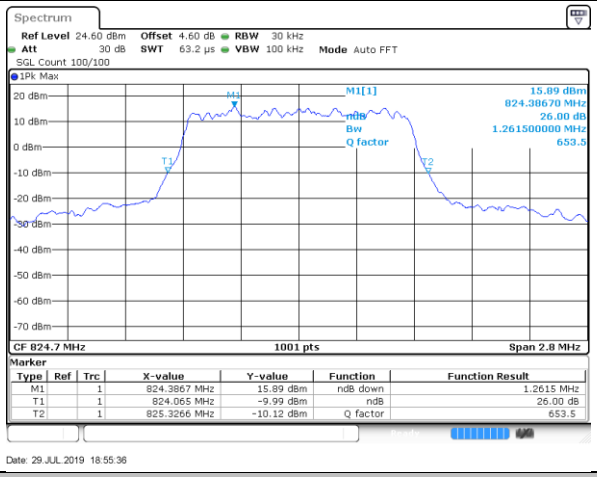


## LTE Band 5

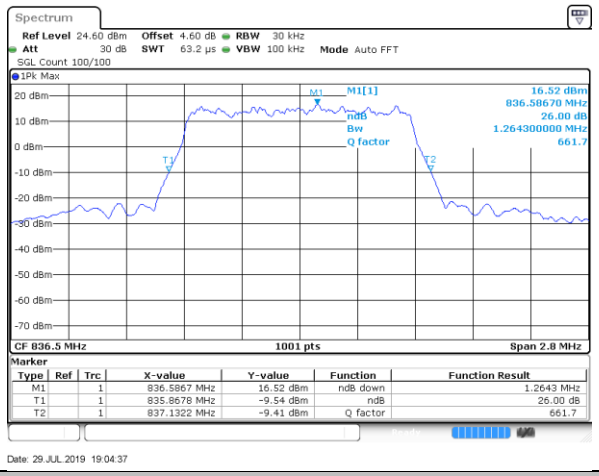
### Lowest Channel / 1.4MHz / QPSK



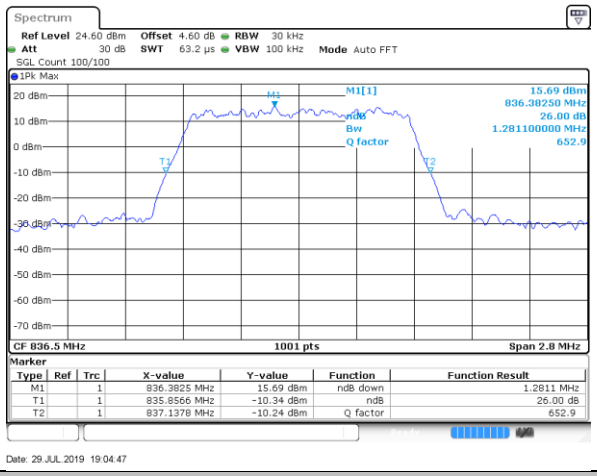

### Lowest Channel / 1.4MHz / 16QAM



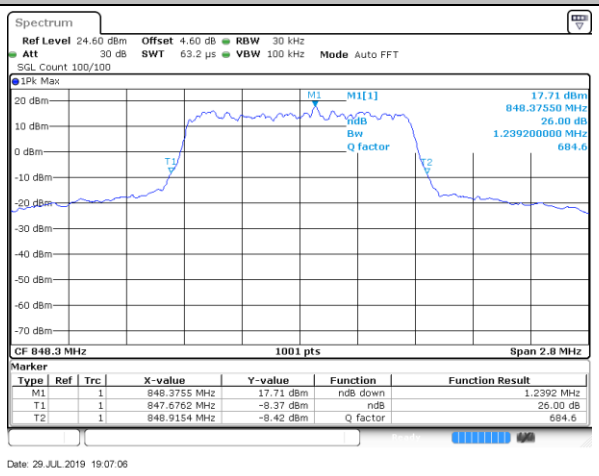

### Middle Channel / 1.4MHz / QPSK



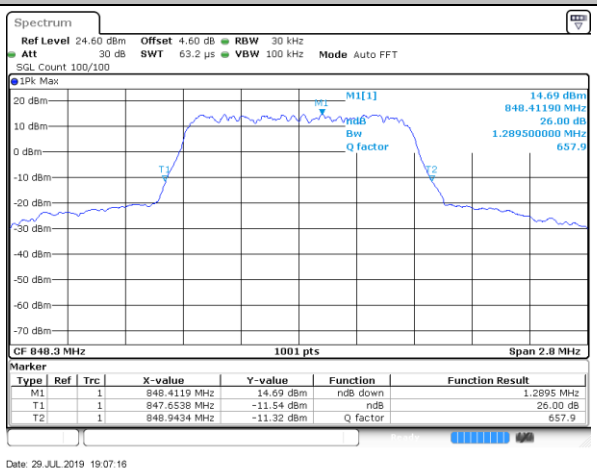

### Middle Channel / 1.4MHz / 16QAM




### Highest Channel / 1.4MHz / QPSK

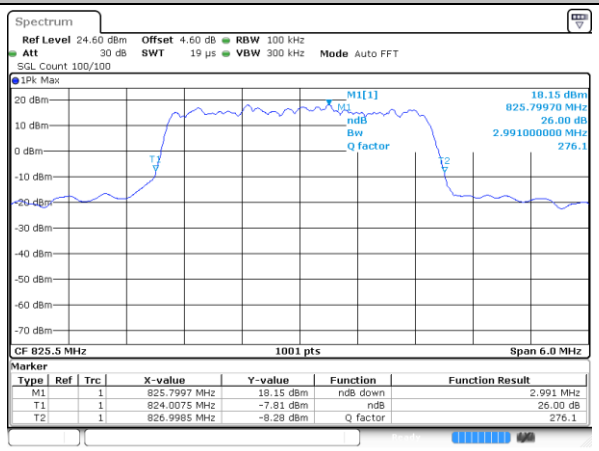



### Highest Channel / 1.4MHz / 16QAM

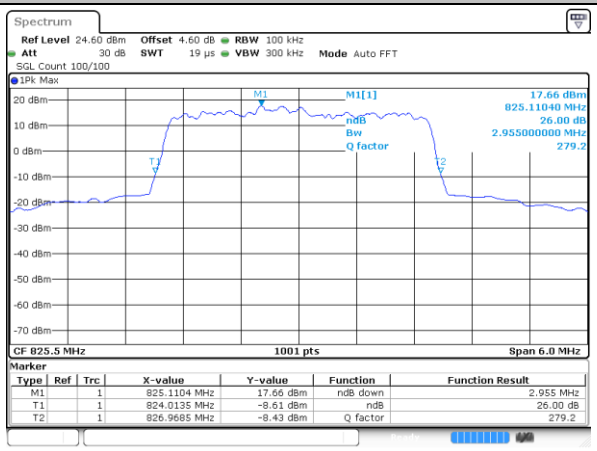


## LTE Band 5

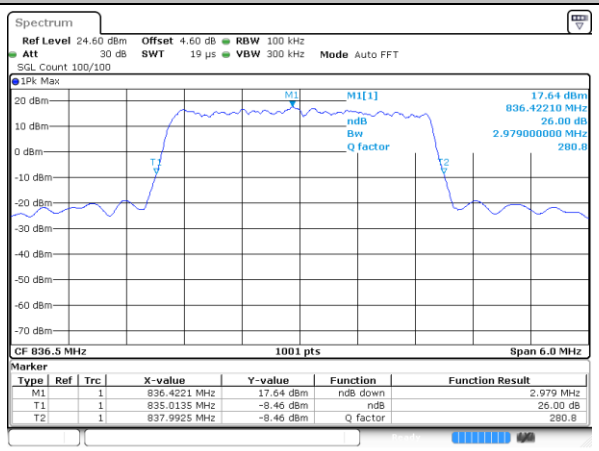
### Lowest Channel / 3MHz / QPSK



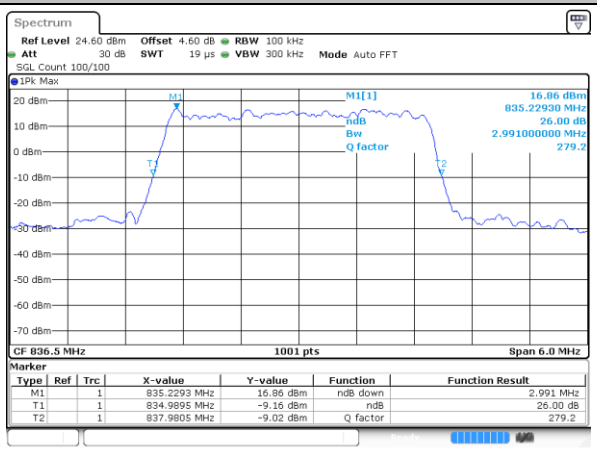

### Lowest Channel / 3MHz / 16QAM



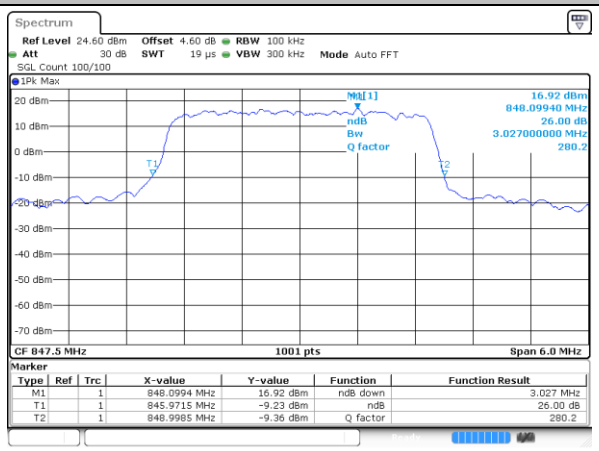

### Middle Channel / 3MHz / QPSK



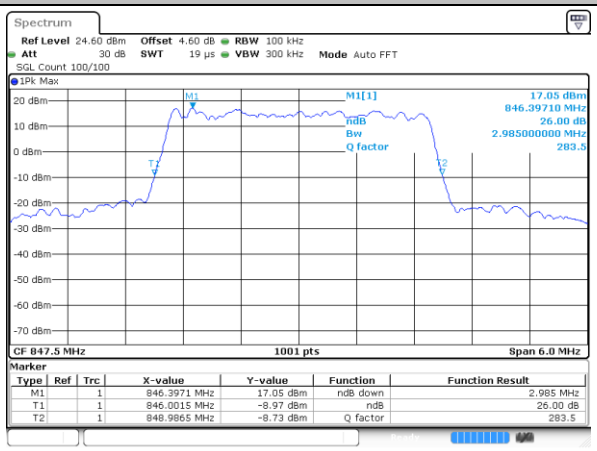

### Middle Channel / 3MHz / 16QAM




### Highest Channel / 3MHz / QPSK

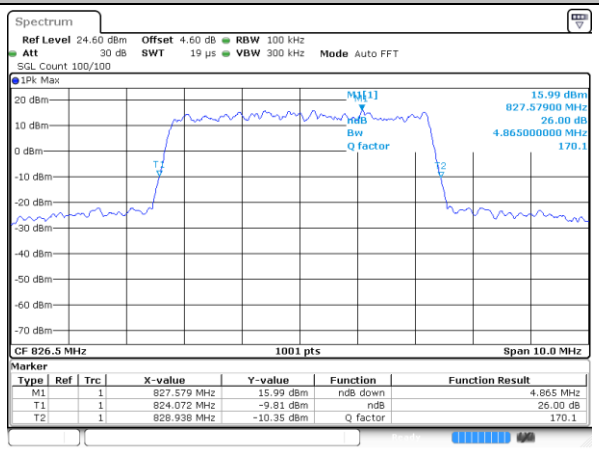



### Highest Channel / 3MHz / 16QAM

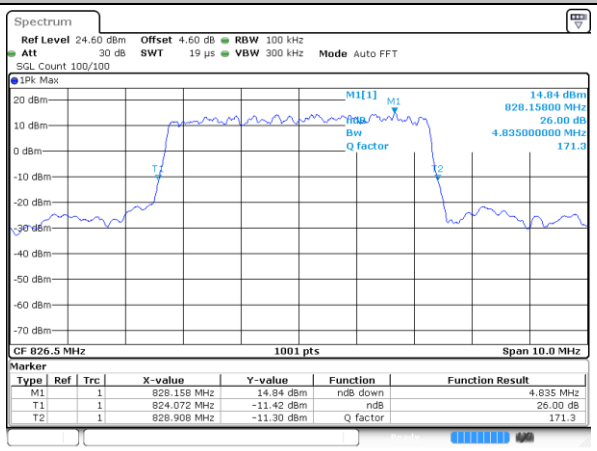


## LTE Band 5

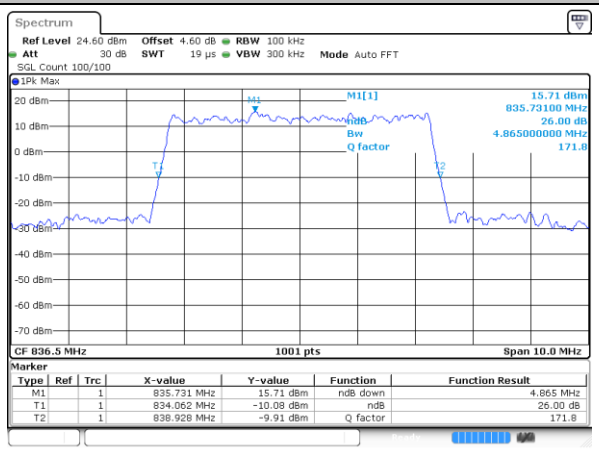
### Lowest Channel / 5MHz / QPSK



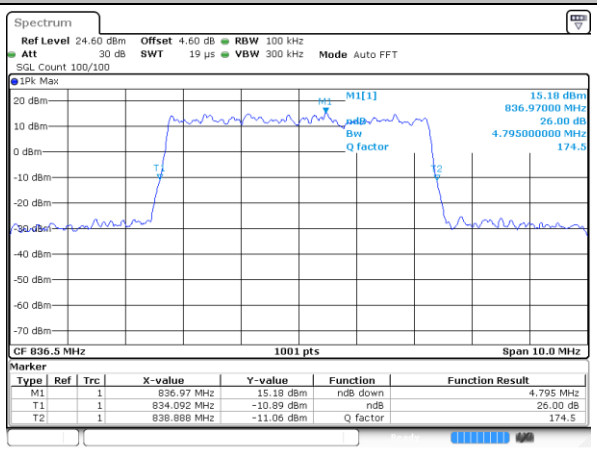

### Lowest Channel / 5MHz / 16QAM



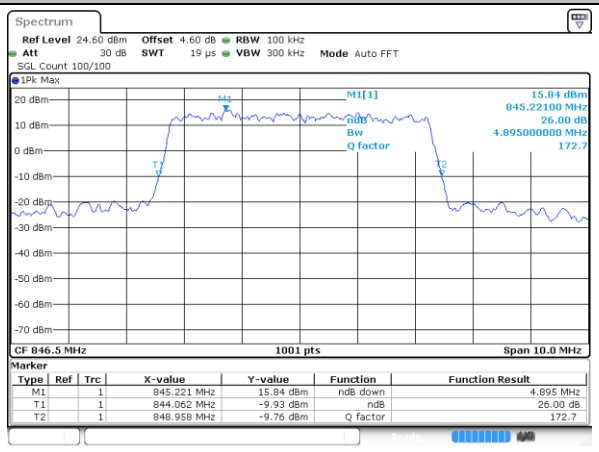

### Middle Channel / 5MHz / QPSK

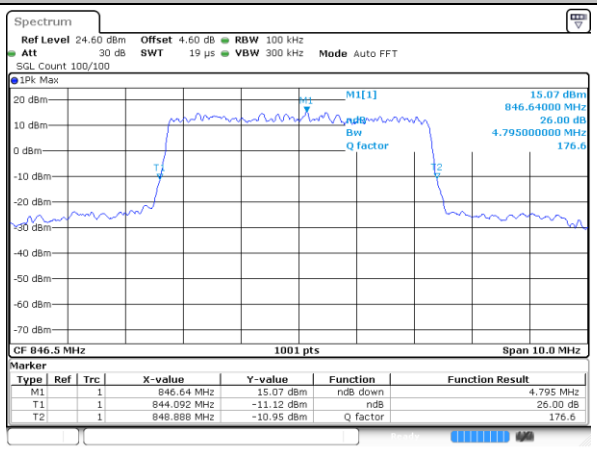



### Middle Channel / 5MHz / 16QAM




### Highest Channel / 5MHz / QPSK




### Highest Channel / 5MHz / 16QAM