

LTE Band 12\_10M

1RB0

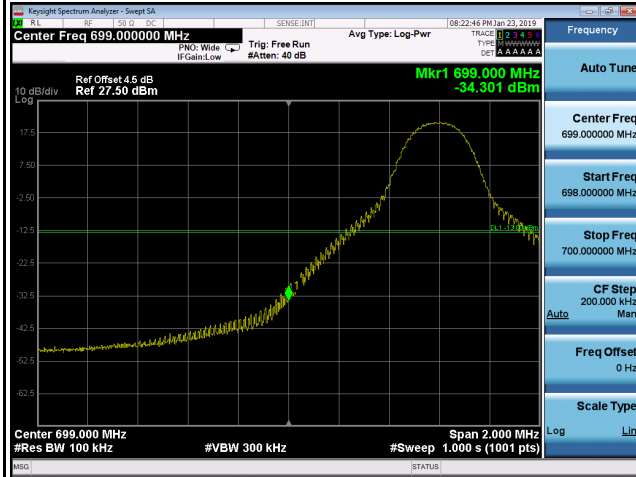
1RB49

Channel

23060

Channel

20350



50RB0

Channel

23060

Channel

20350



LTE Band 66\_1.4M

1RB0

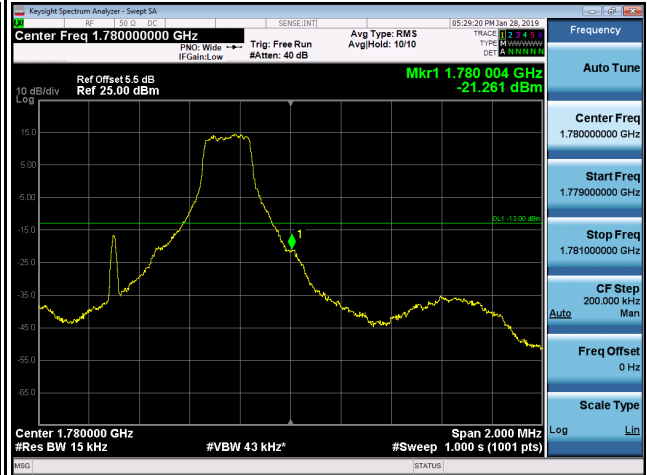
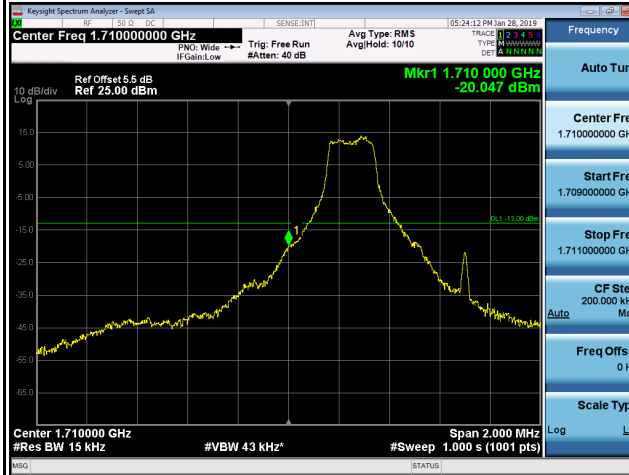
1RB5

Channel

131979

Channel

132665



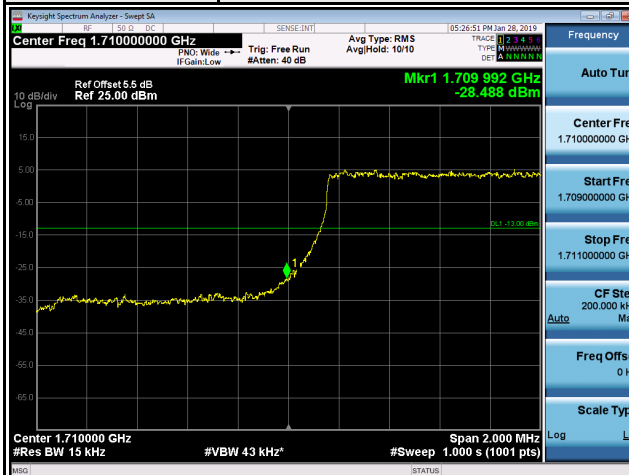
6RB0

Channel

131979

Channel

132665



# LTE Band 66\_3M

1RB0

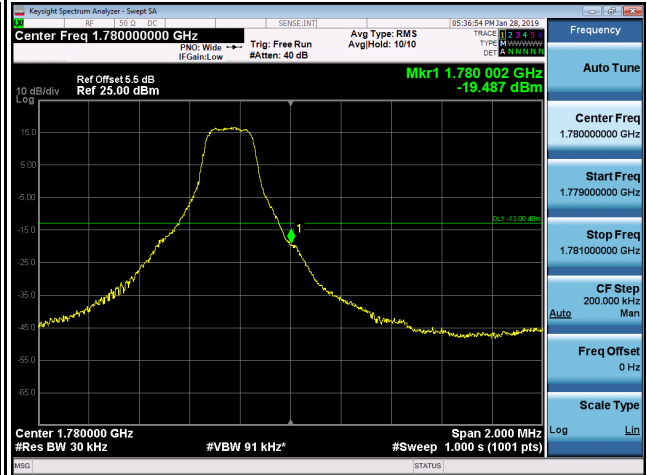
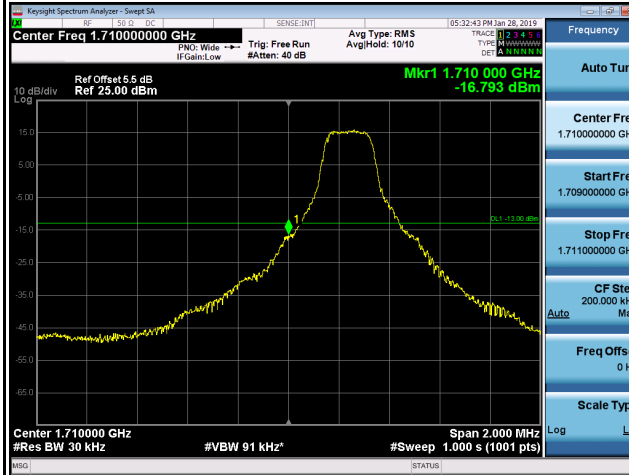
1RB14

Channel

131987

Channel

132657



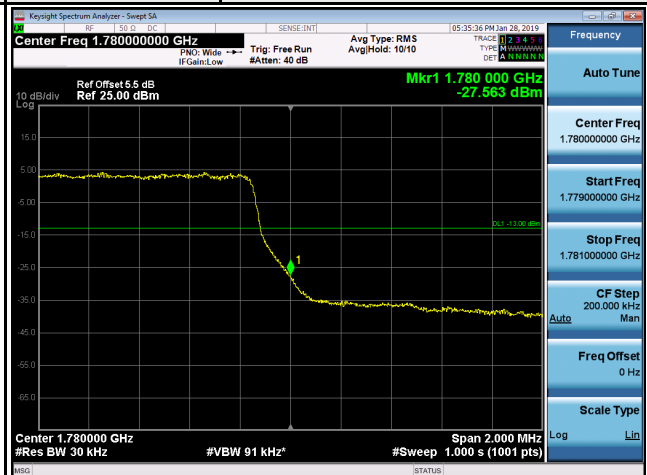
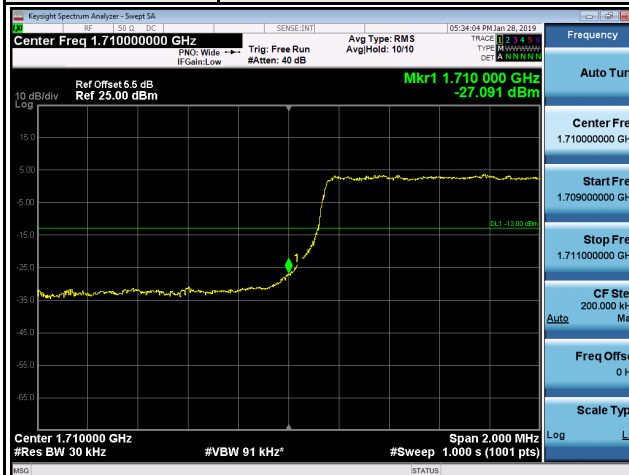
# 15RB0

Channel

131987

Channel

132657



LTE Band 66\_5M

1RB0

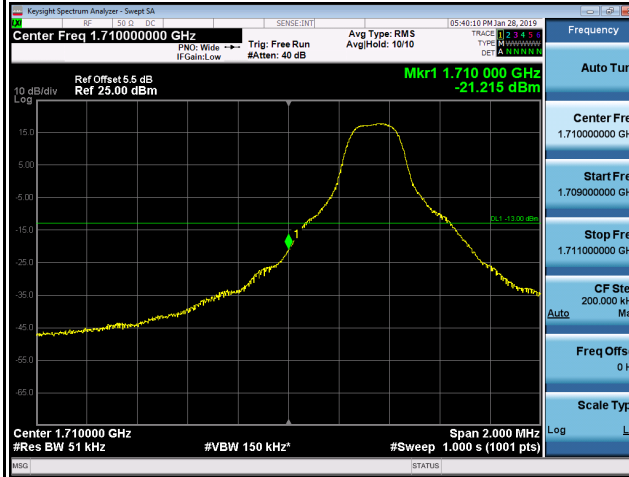
1RB24

Channel

131997

Channel

132647



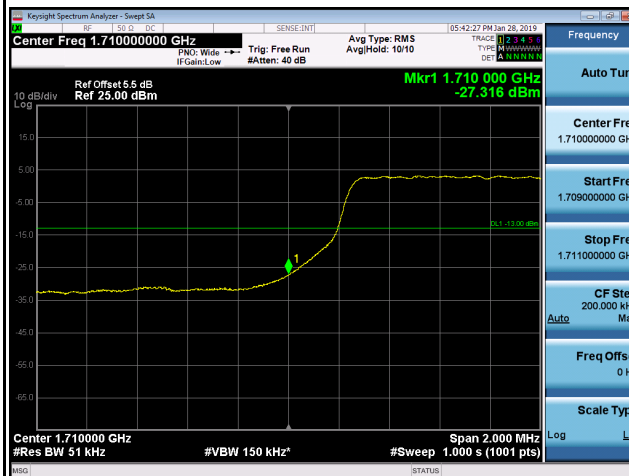
25RB0

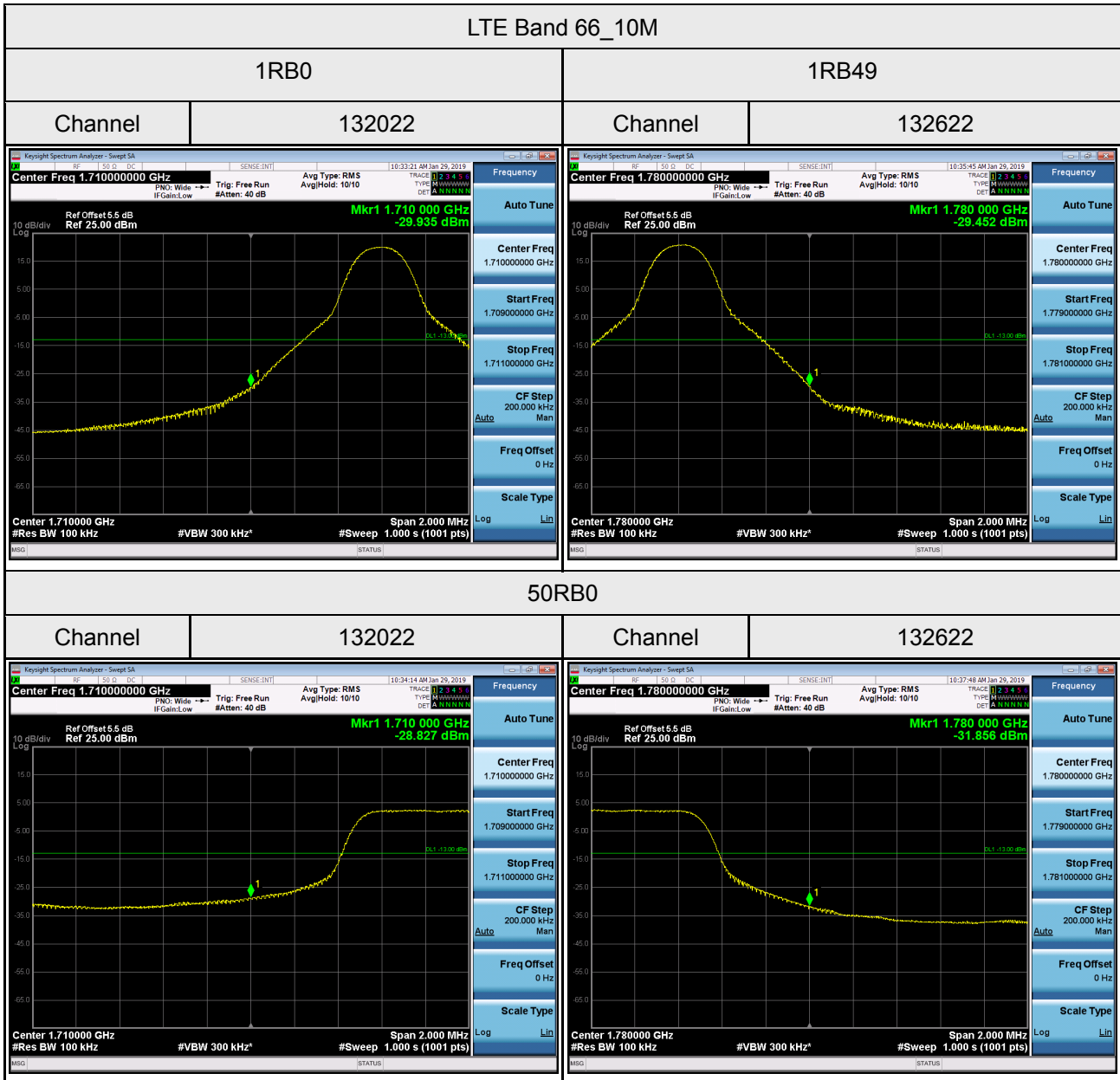
Channel

131997

Channel

132647





LTE Band 66\_15M

1RB0

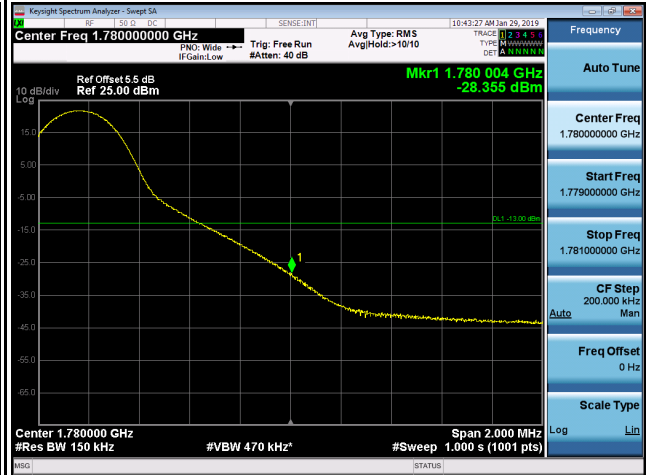
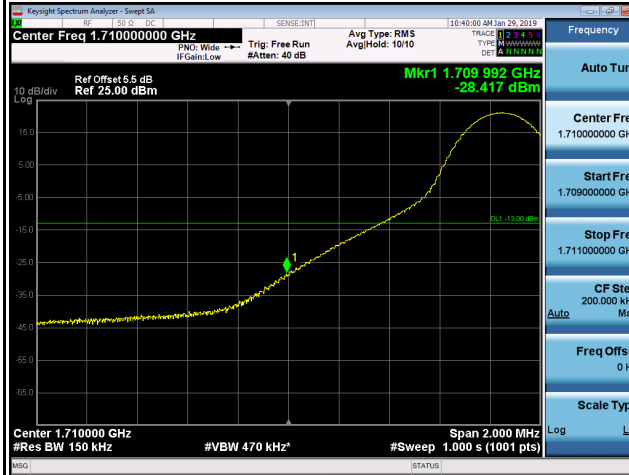
1RB74

Channel

132047

Channel

132597



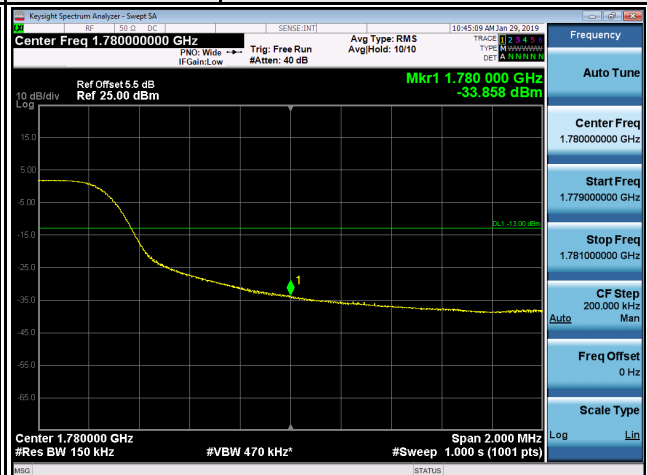
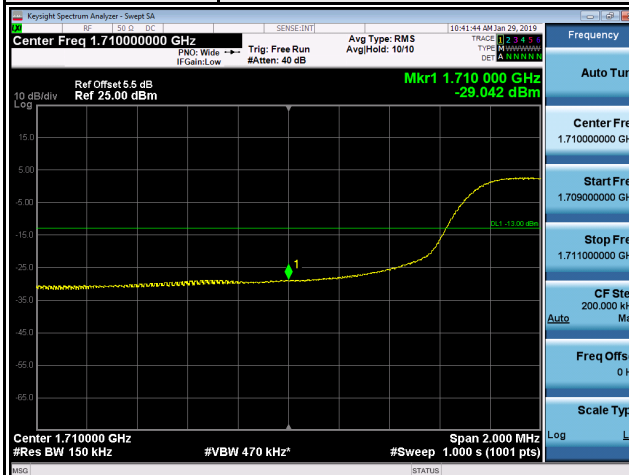
75RB0

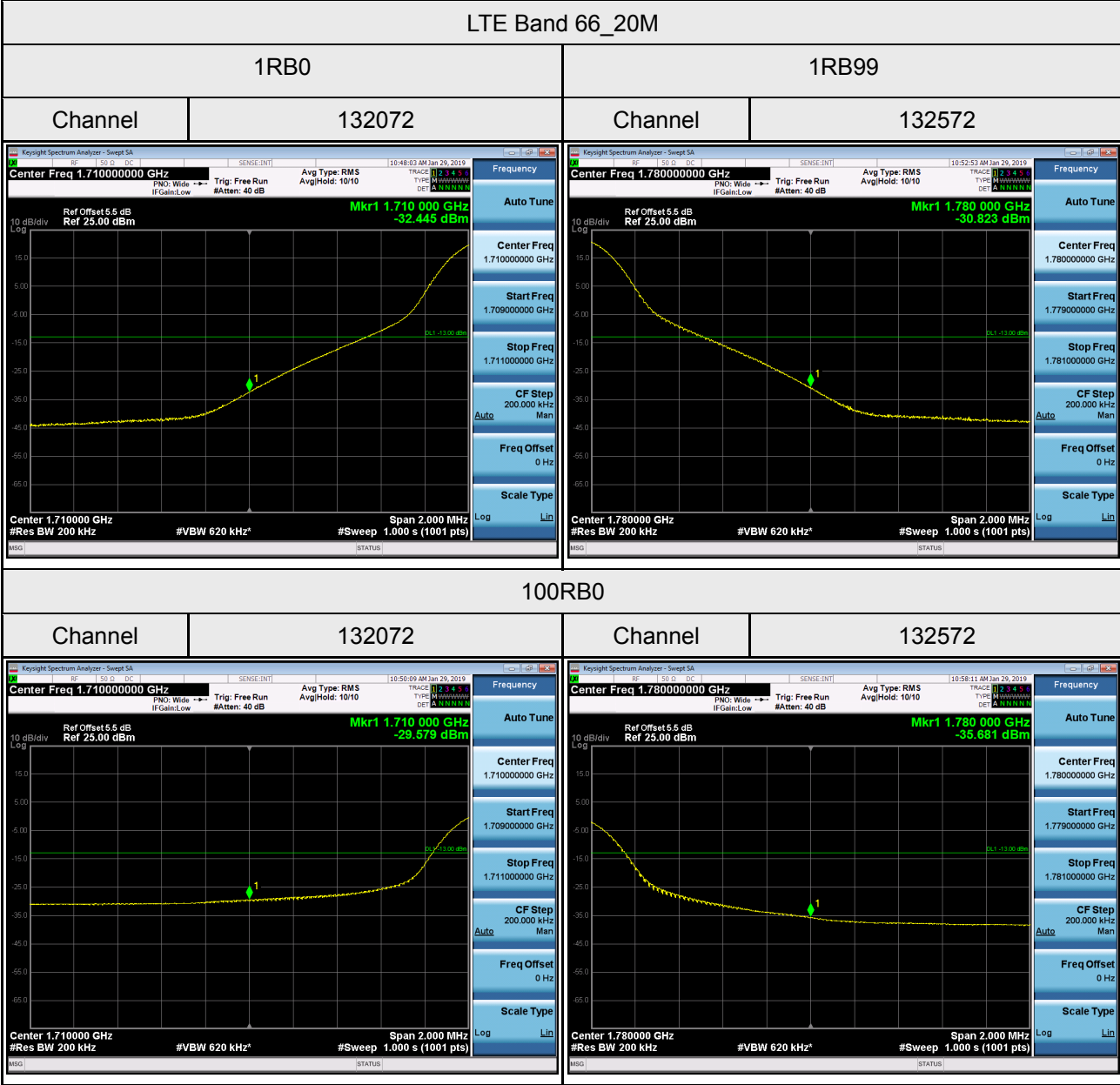
Channel

132047

Channel

132597



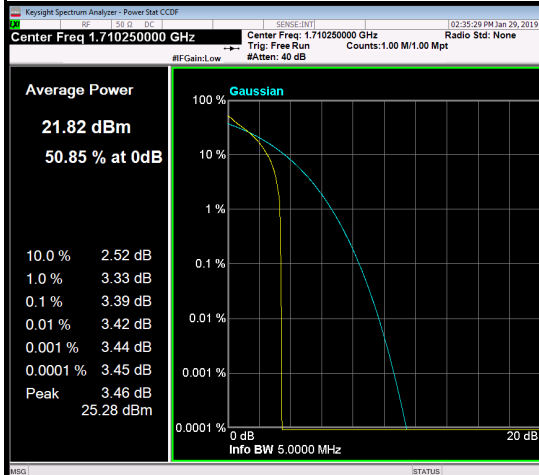


## APPENDIX H - PEAK TO AVERAGE RATIO

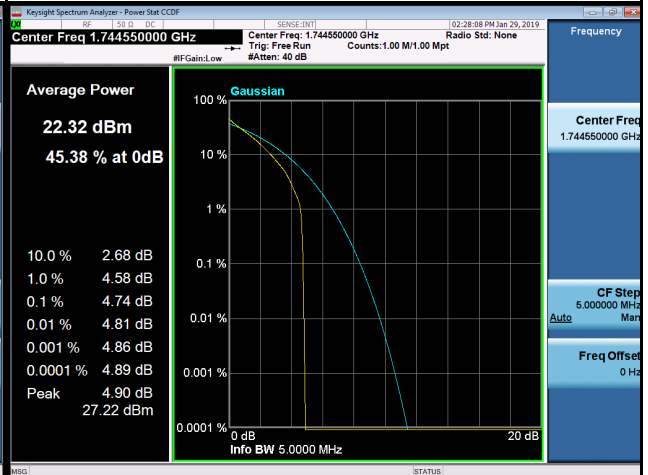


# LTE Band 4 Spectrum Plot\_1.4M

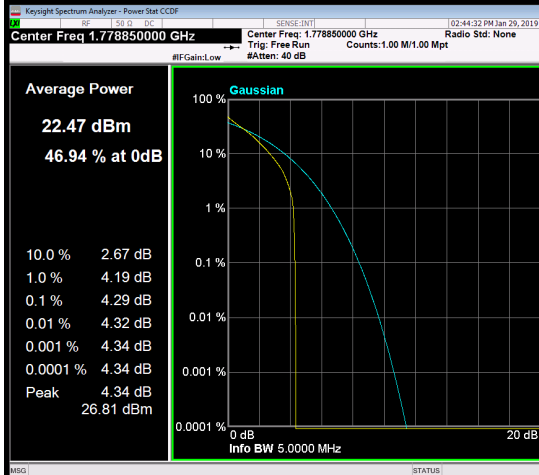
## QPSK-19957



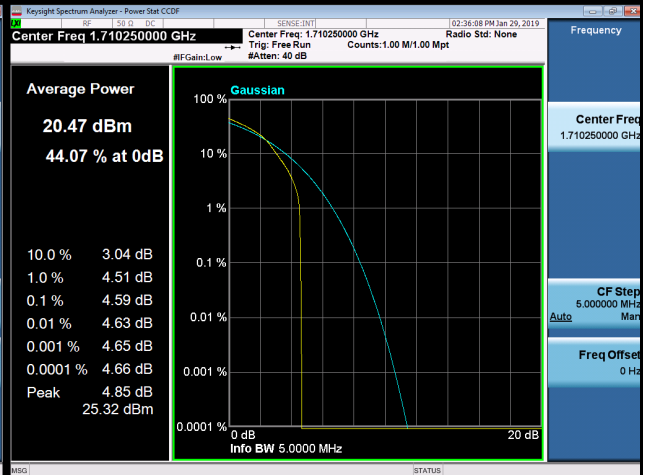
## QPSK-20175



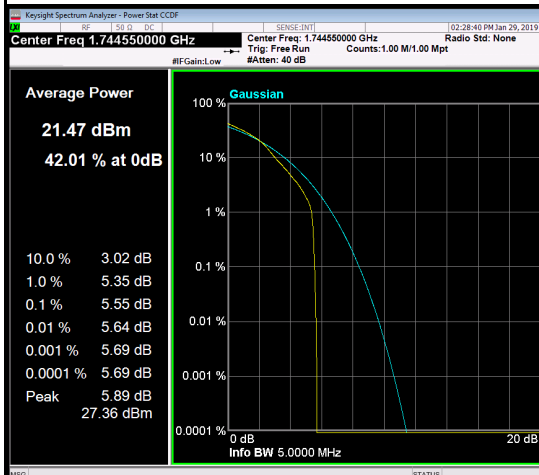
## QPSK-20393



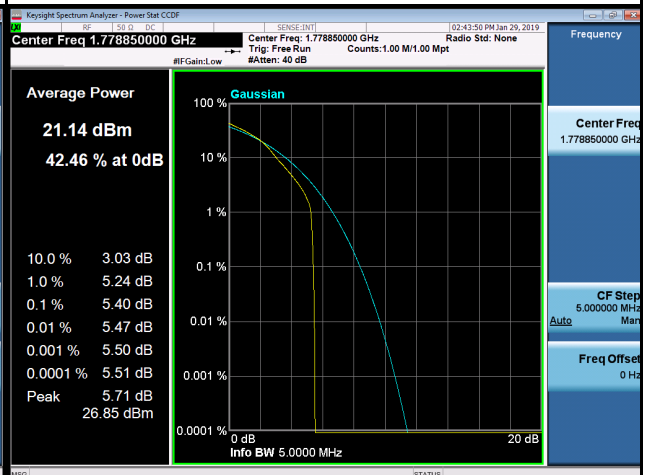
## 16QAM-19957



## 16QAM-20175

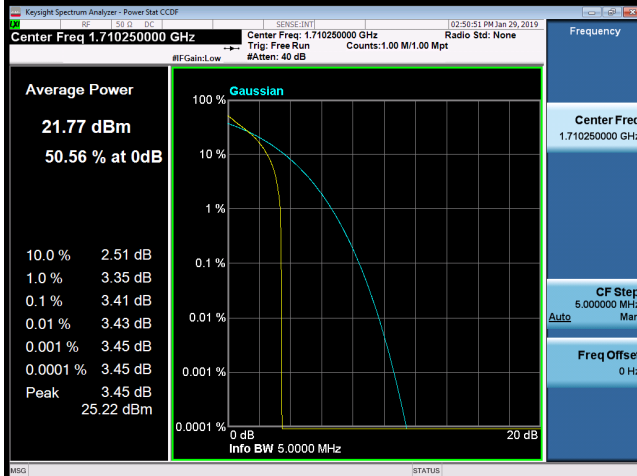


## 16QAM-20393

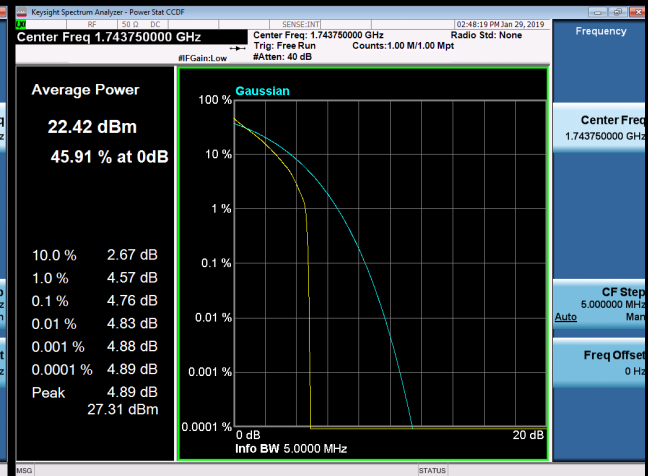


# LTE Band 4 Spectrum Plot\_3M

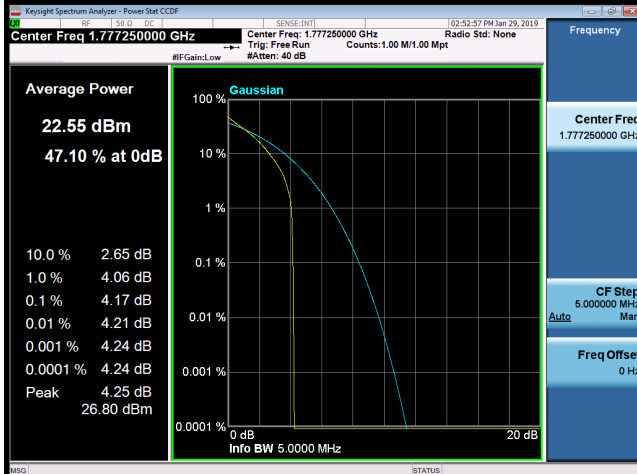
## QPSK-19965



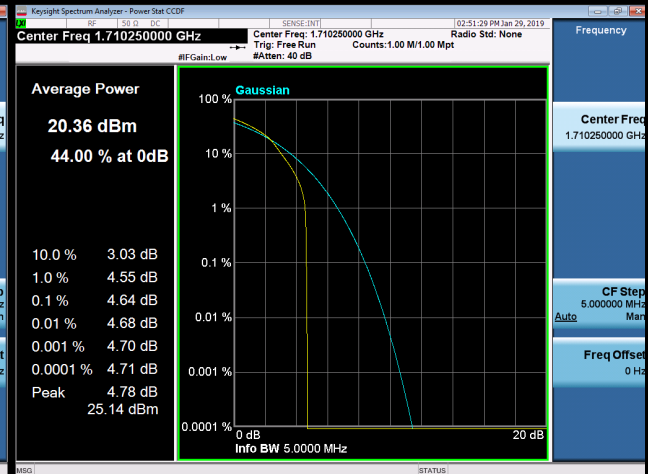
## QPSK-20175



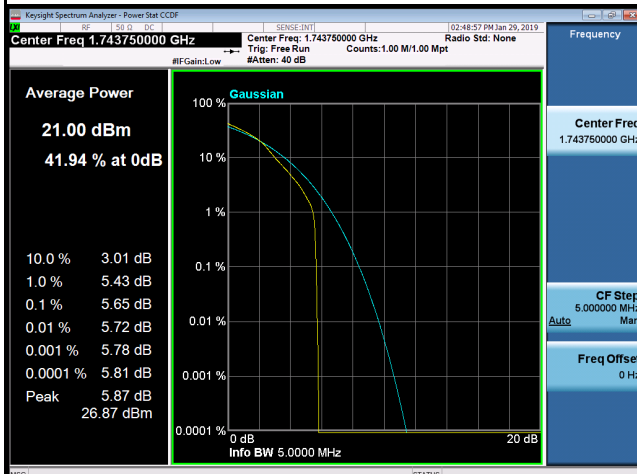
## QPSK-20385



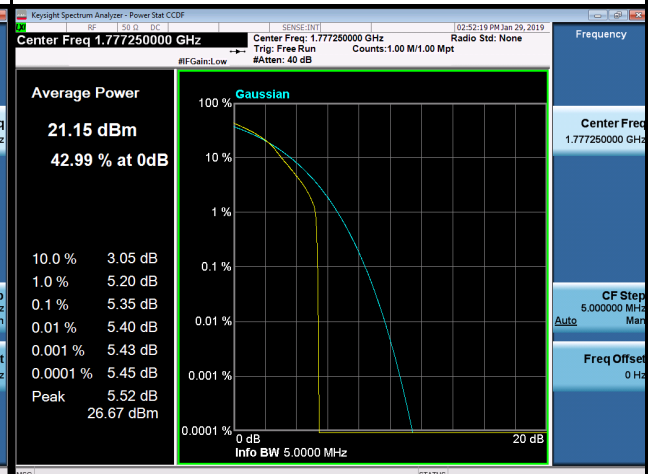
## 16QAM-19965



## 16QAM-20175

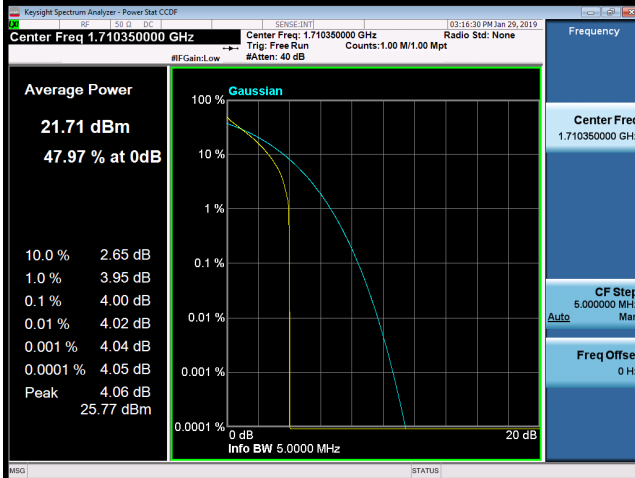


## 16QAM-20385

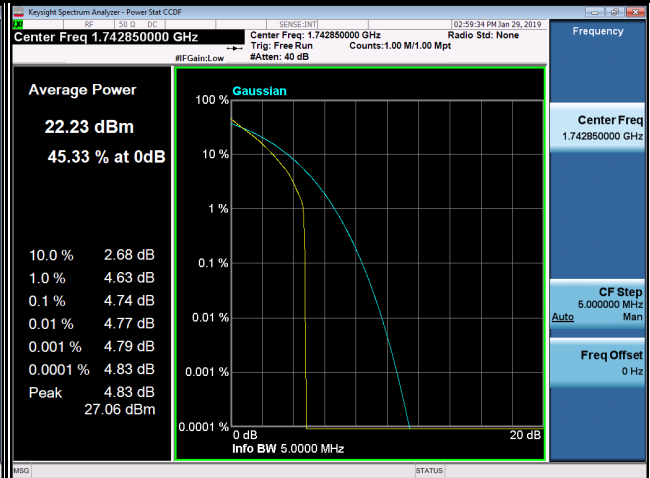


# LTE Band 4 Spectrum Plot\_5M

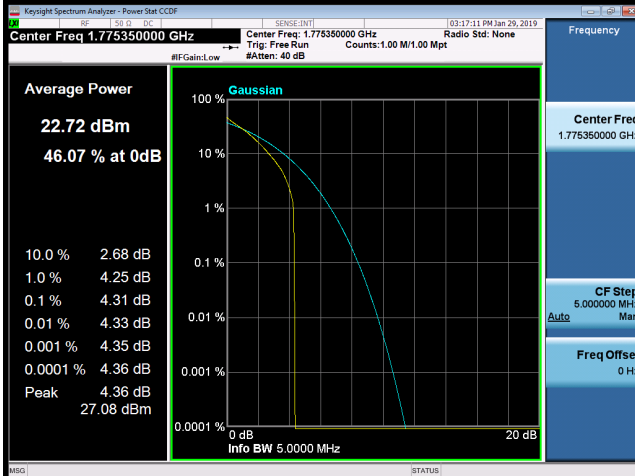
## QPSK-19975



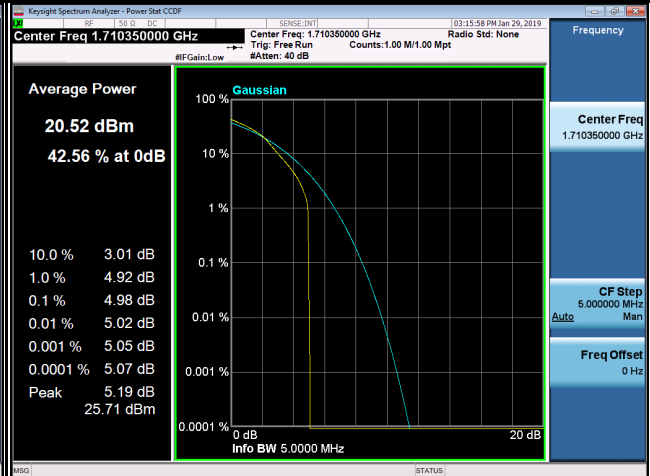
## QPSK-20175



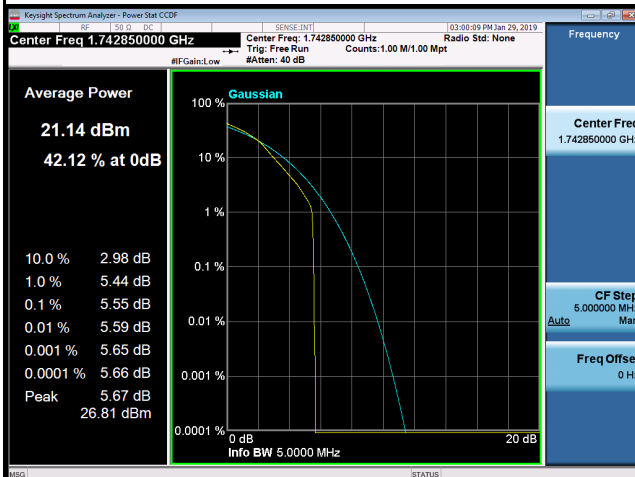
## QPSK-20375



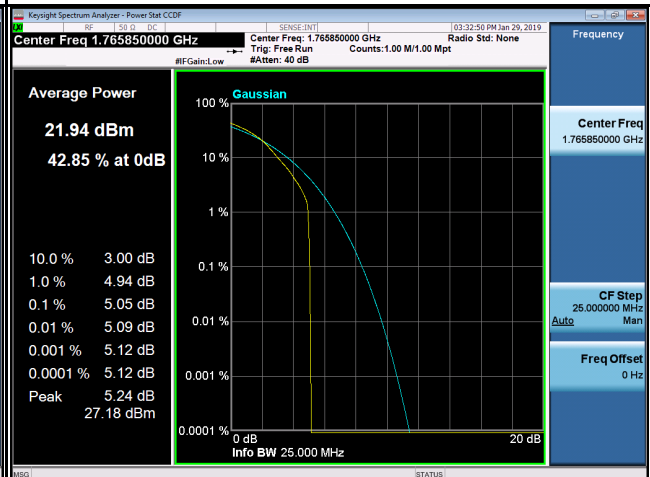
## 16QAM-19975



## 16QAM-20175

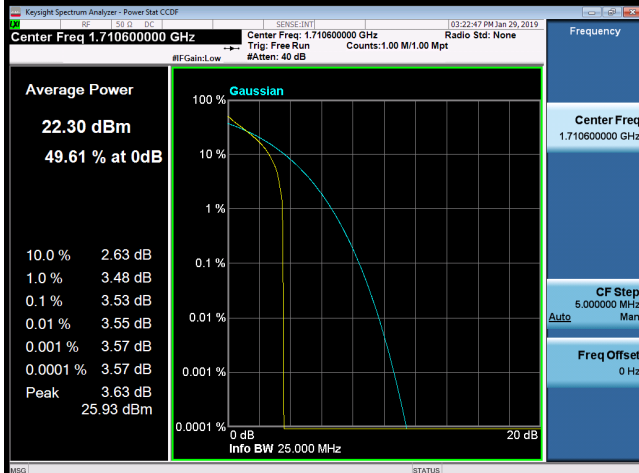


## 16QAM-20375

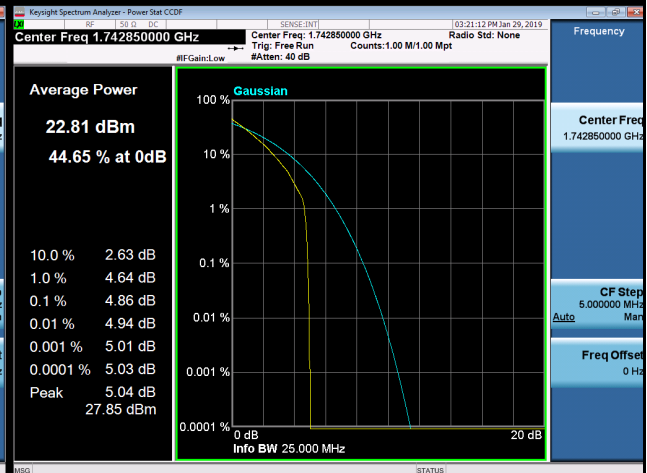


# LTE Band 4 Spectrum Plot\_10M

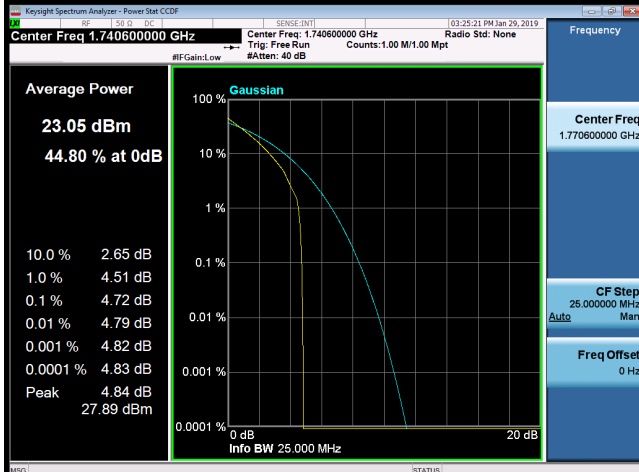
## QPSK-20000



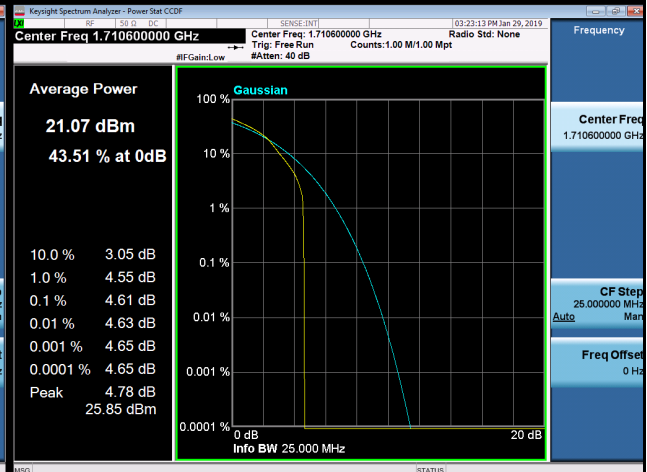
## QPSK-20175



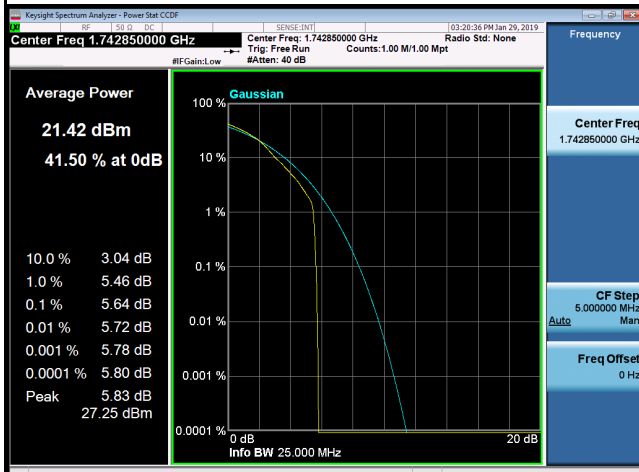
## QPSK-20350



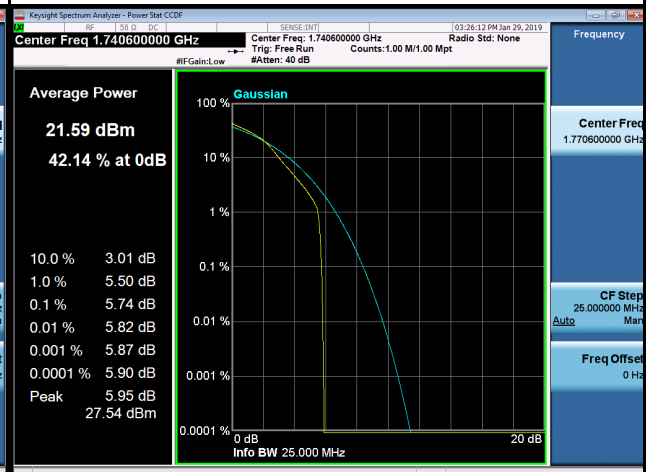
## 16QAM-20000



## 16QAM-20175

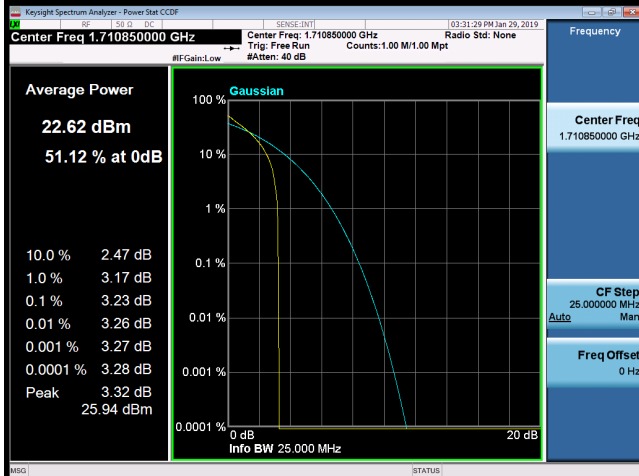


## 16QAM-20350

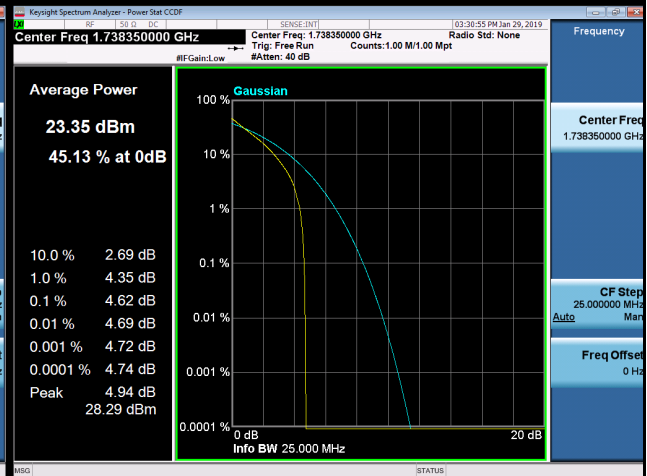


# LTE Band 4 Spectrum Plot\_15M

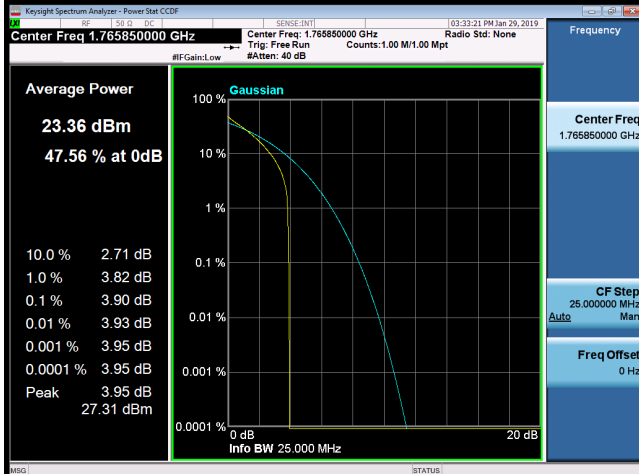
## QPSK-20025



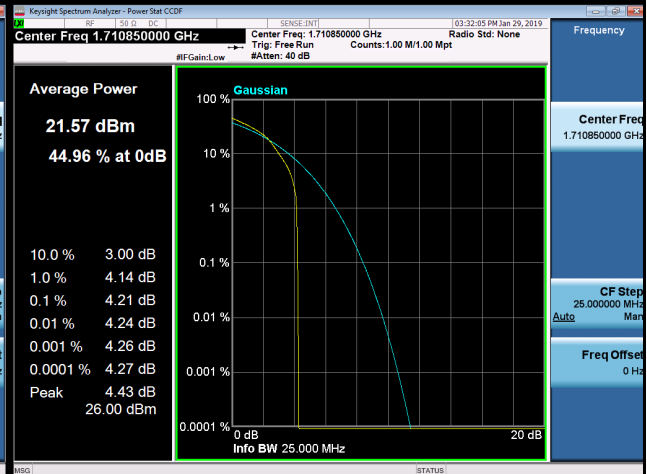
## QPSK-20175



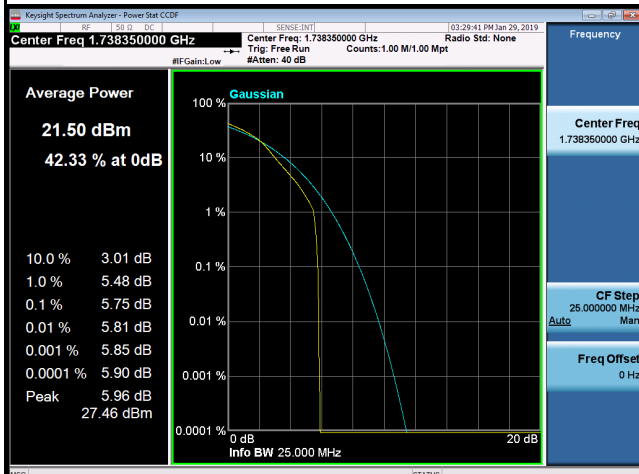
## QPSK-20325



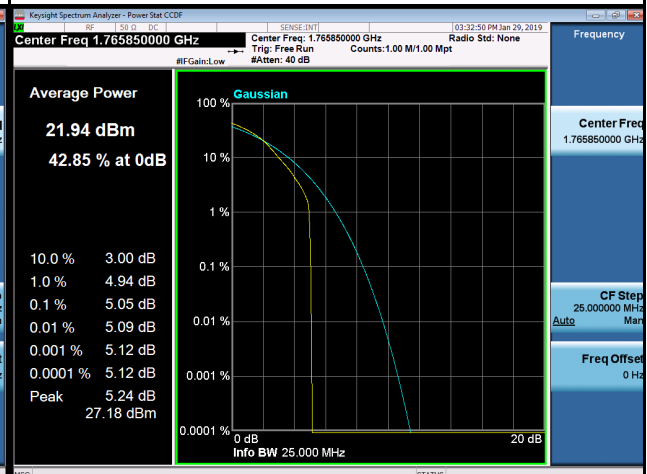
## 16QAM-20025



## 16QAM-20175

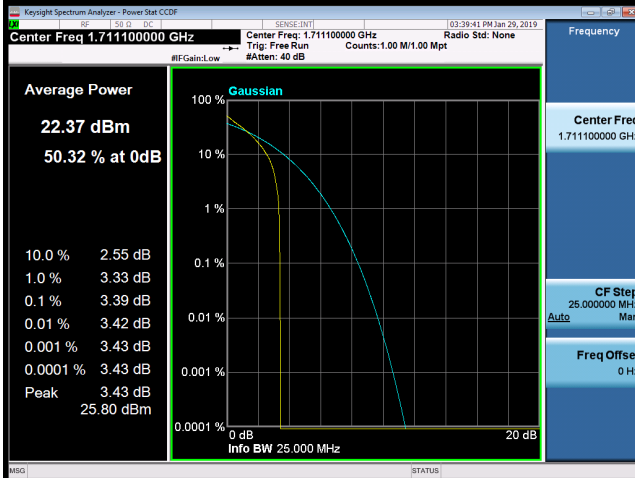


## 16QAM-20325

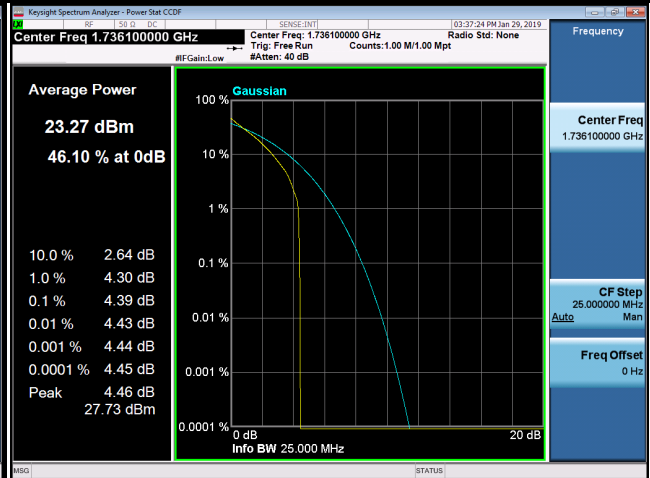


# LTE Band 4 Spectrum Plot\_20M

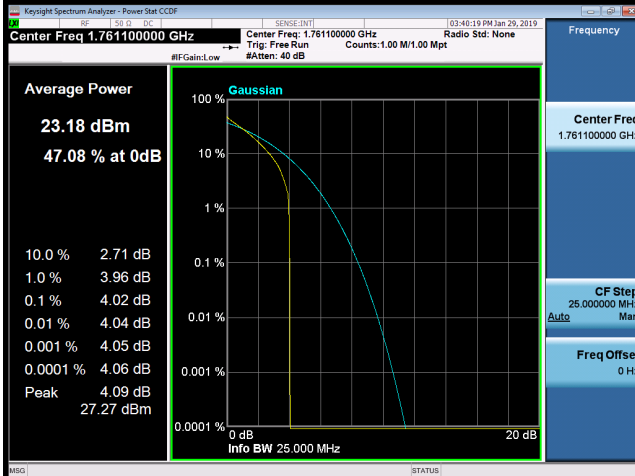
## QPSK-20050



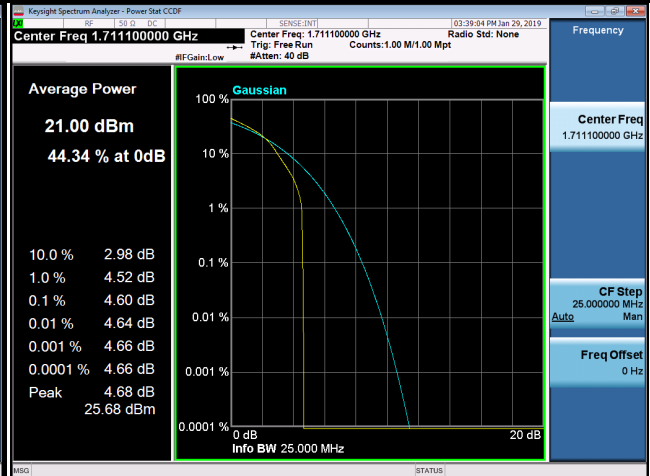
## QPSK-20175



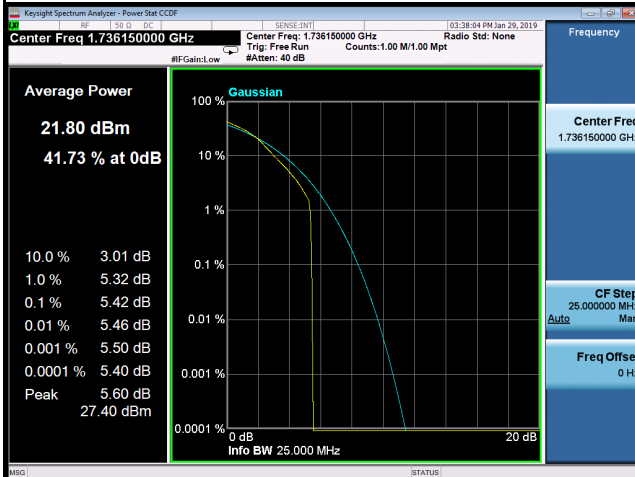
## QPSK-20300



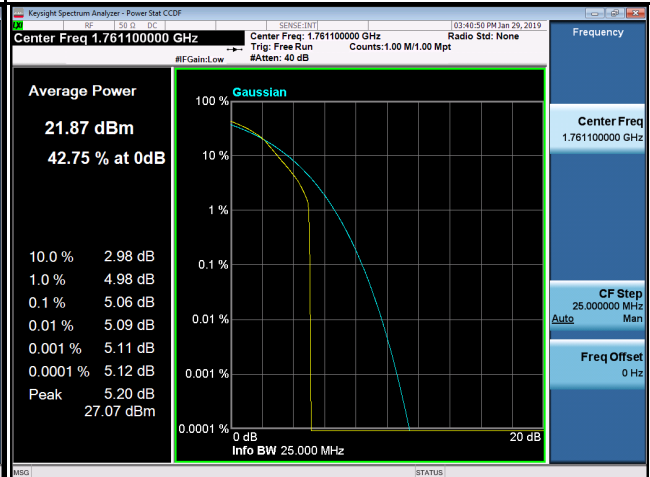
## 16QAM-20050



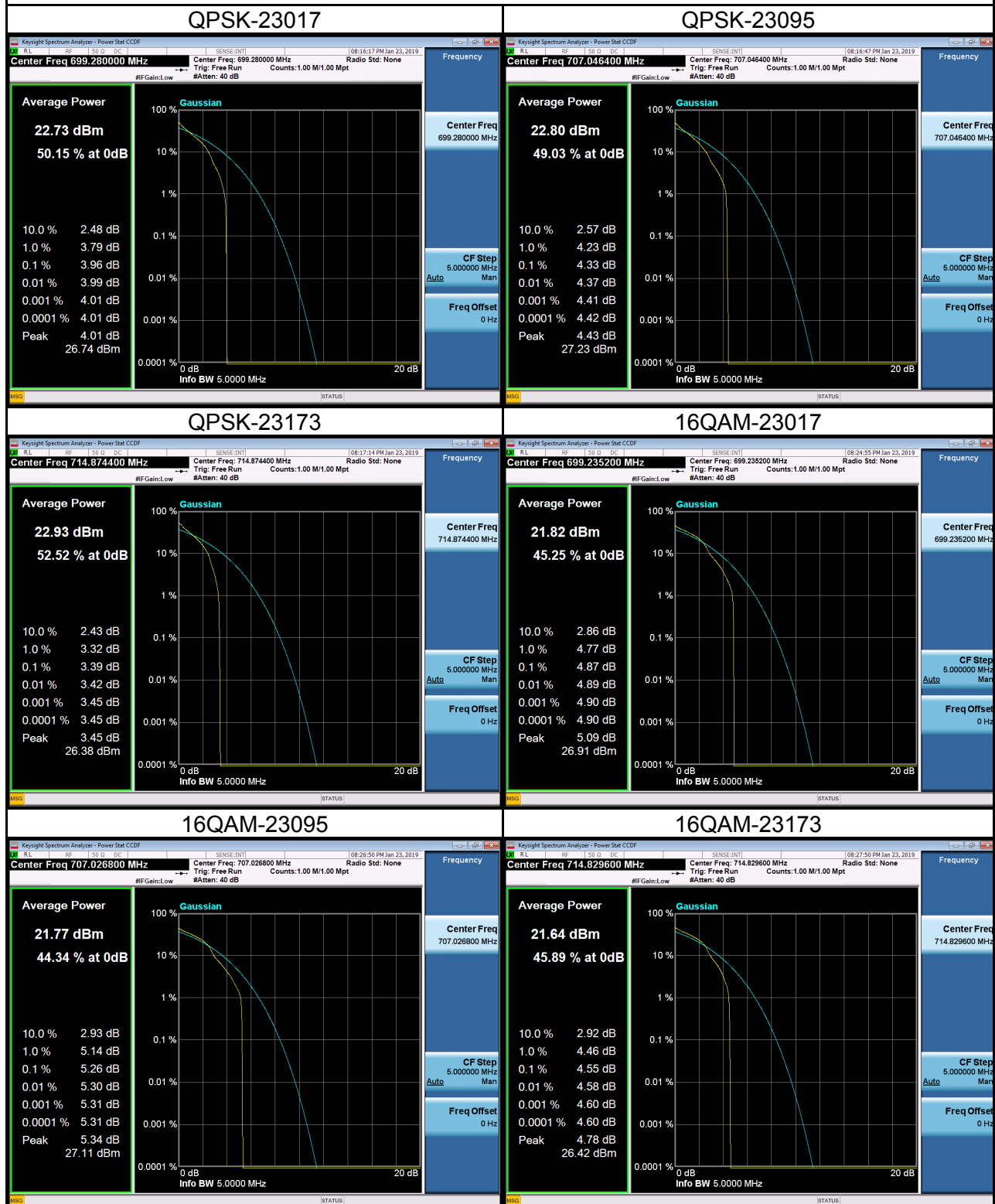
## 16QAM-20175



## 16QAM-20300

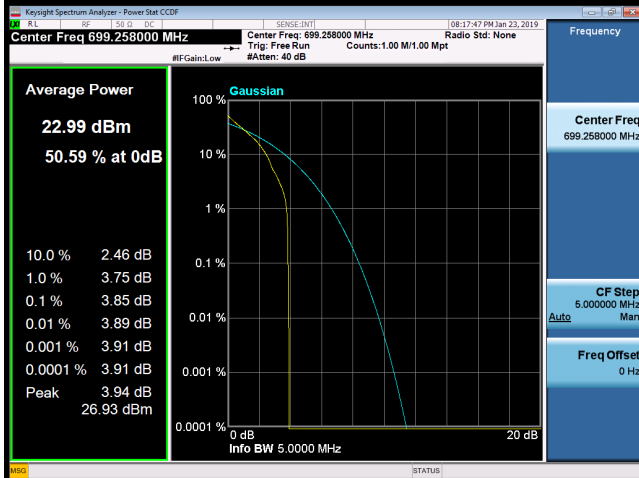


# LTE Band 12 Spectrum Plot\_1.4M

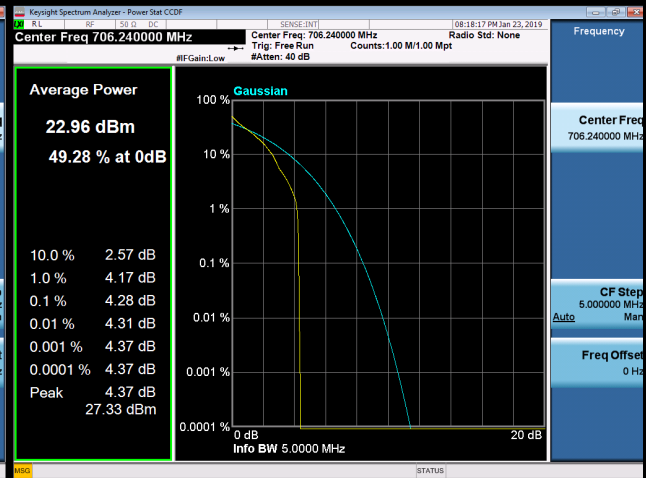


# LTE Band 12 Spectrum Plot\_3M

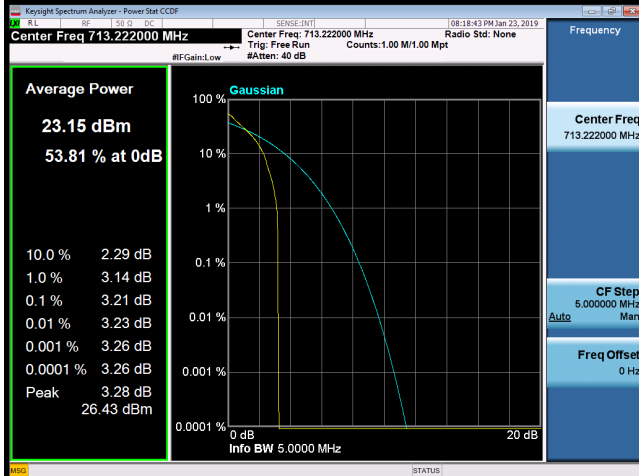
## QPSK-23025



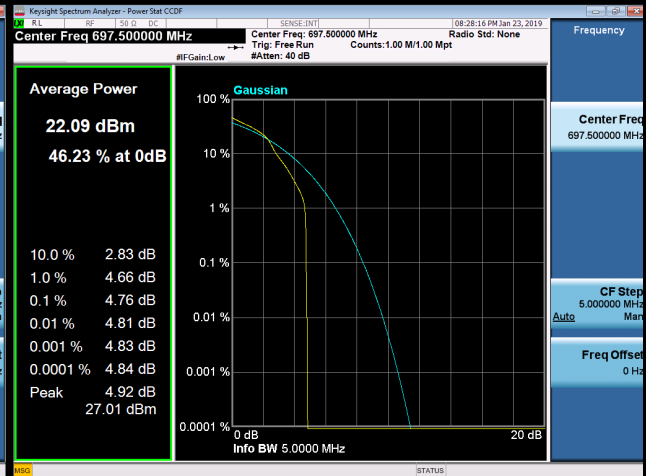
## QPSK-23095



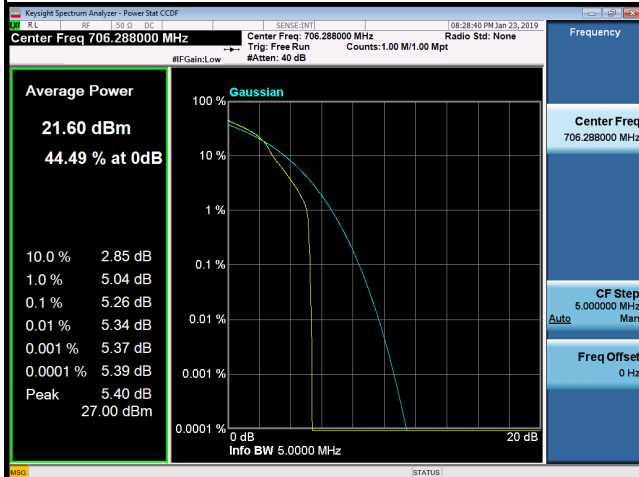
## QPSK-23165



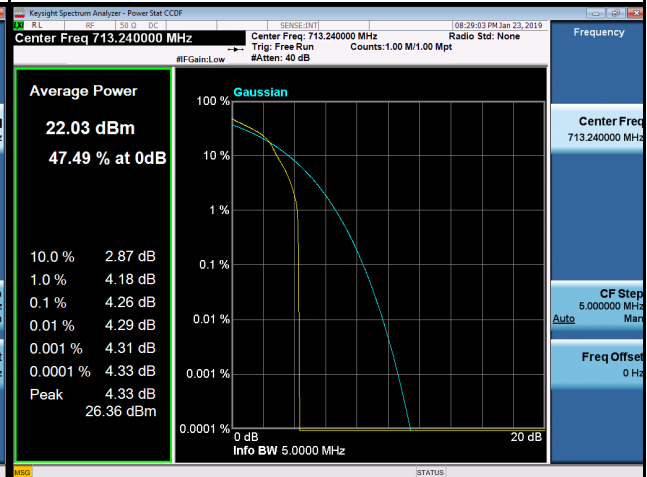
## 16QAM-23025



## 16QAM-23095



## 16QAM-23165





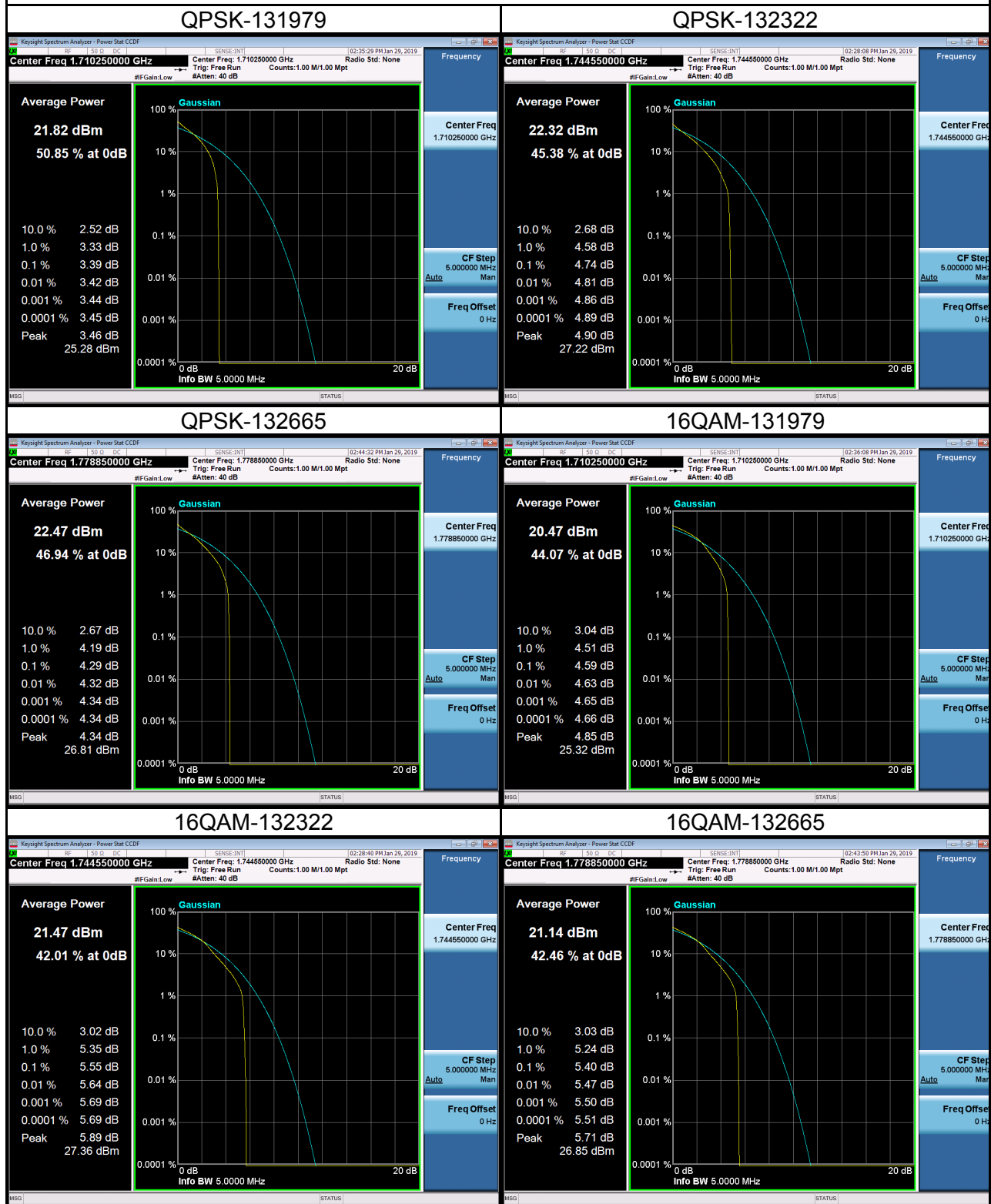
# LTE Band 12 Spectrum Plot\_5M



# LTE Band 12 Spectrum Plot\_10M

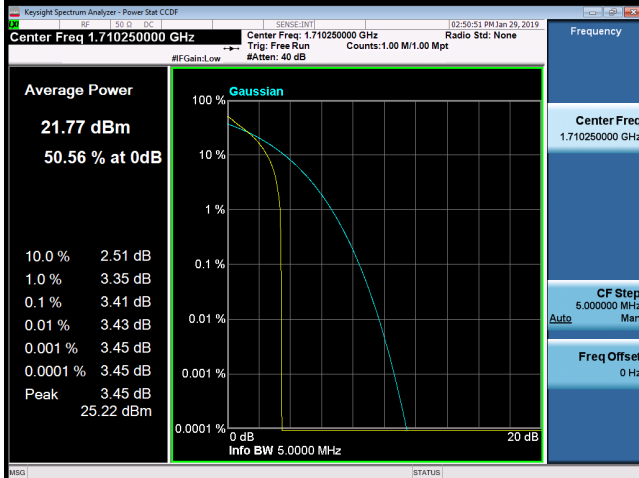


# LTE Band 66 Spectrum Plot\_1.4M

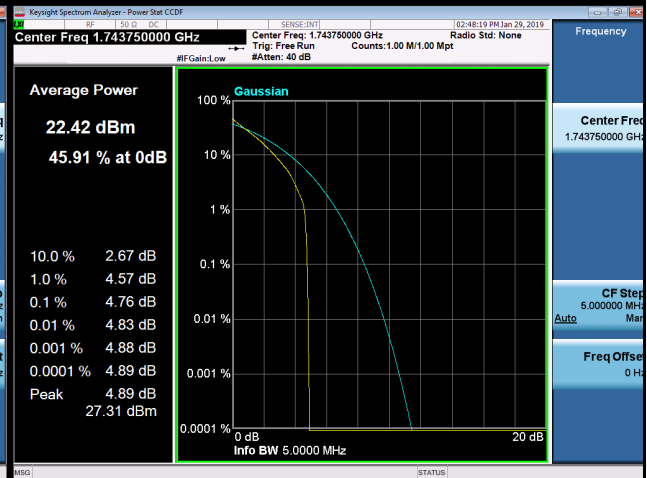


# LTE Band 66 Spectrum Plot\_3M

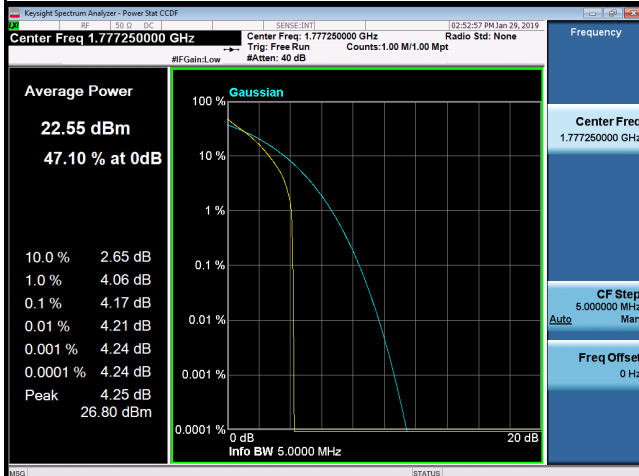
## QPSK-131987



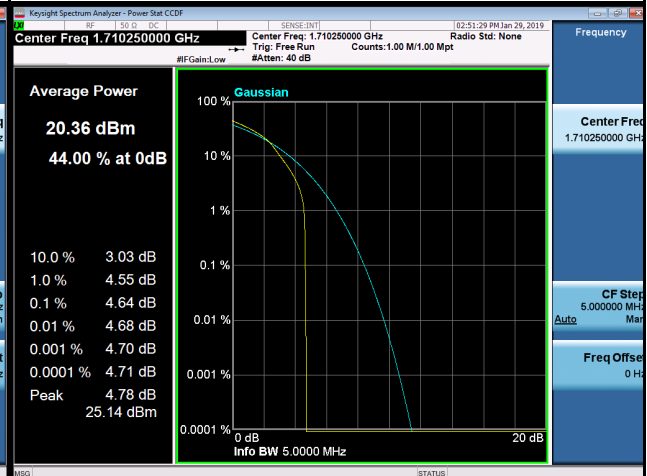
## QPSK-132322



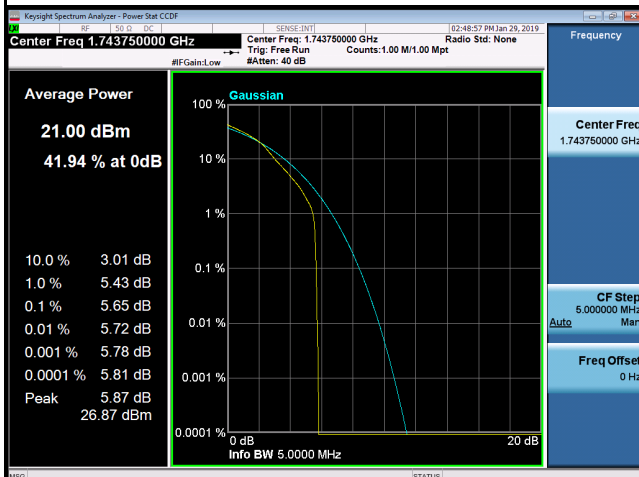
## QPSK-132657



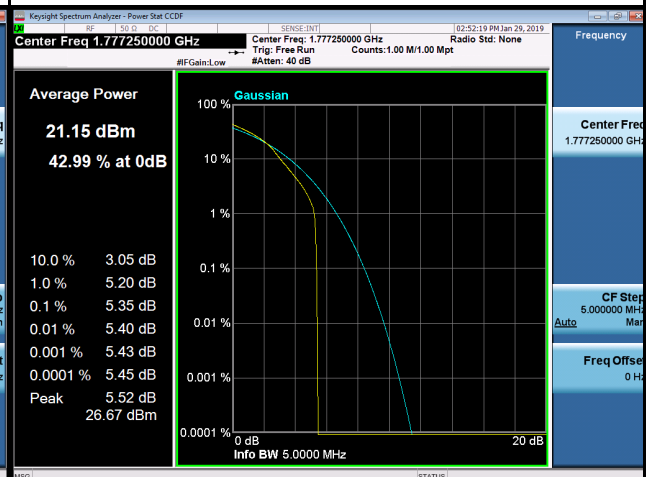
## 16QAM-131987



## 16QAM-132322

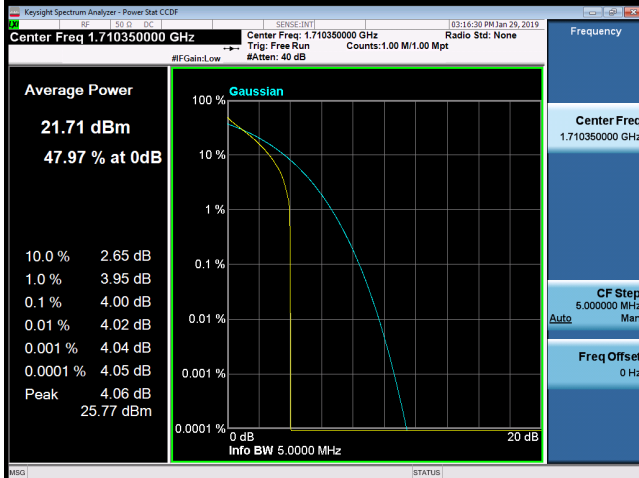


## 16QAM-132657

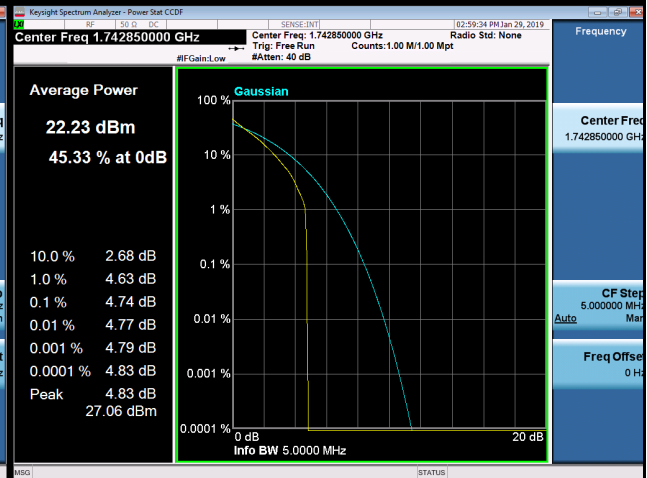


# LTE Band 66 Spectrum Plot\_5M

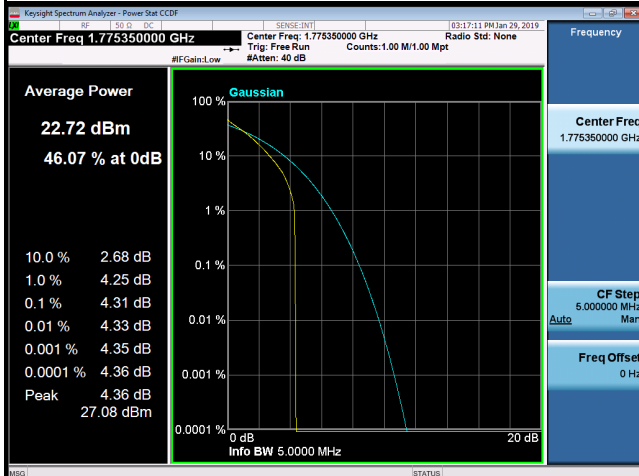
## QPSK-131997



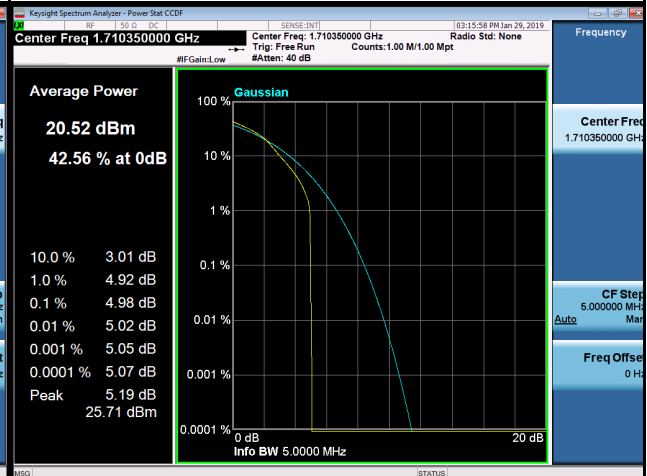
## QPSK-132322



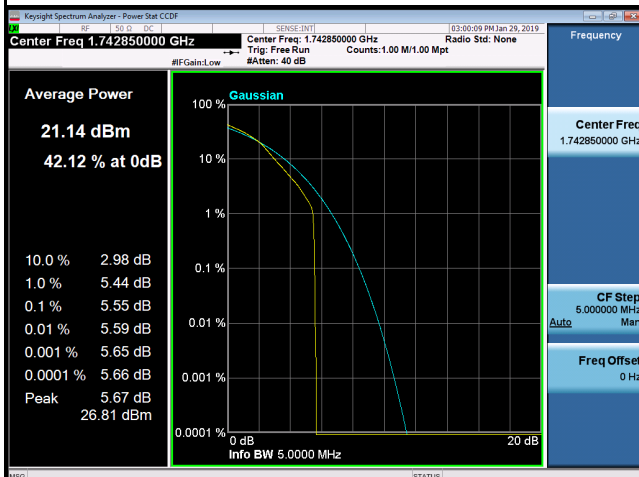
## QPSK-132647



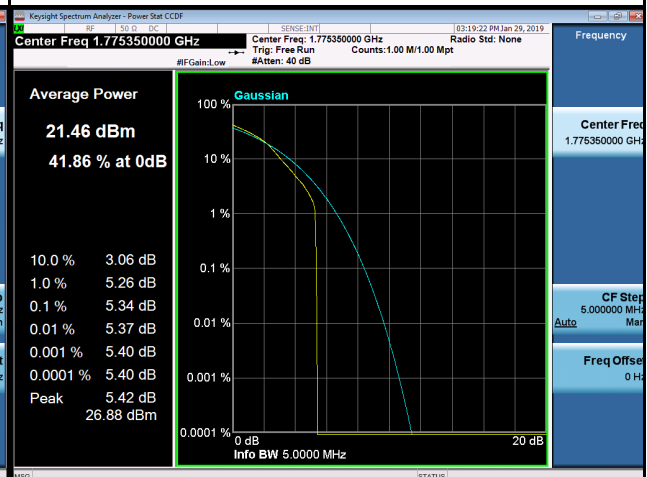
## 16QAM-131997



## 16QAM-132322

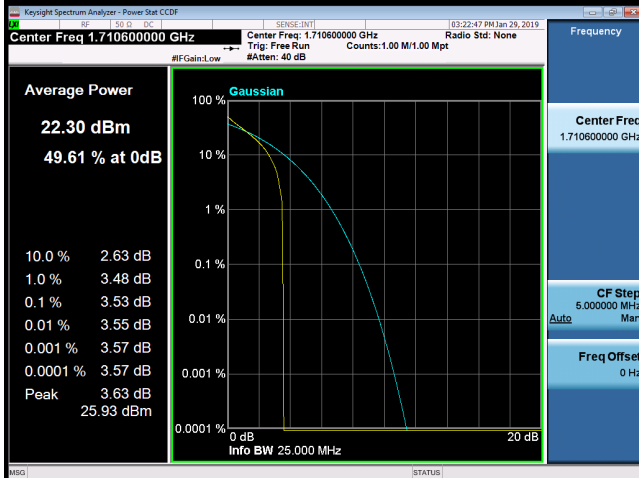


## 16QAM-132647

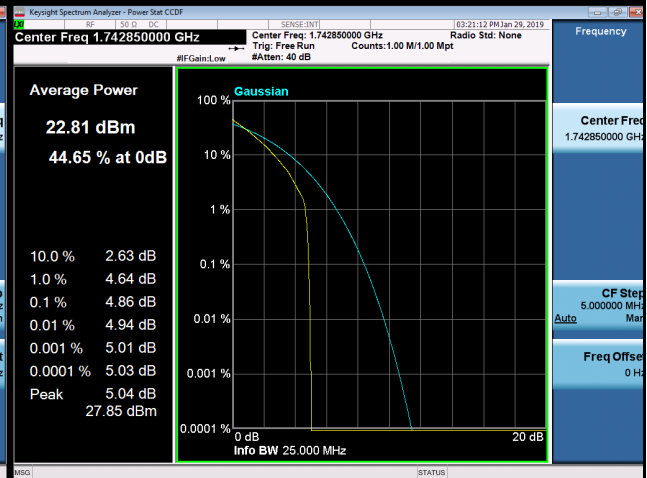


# LTE Band 66 Spectrum Plot\_10M

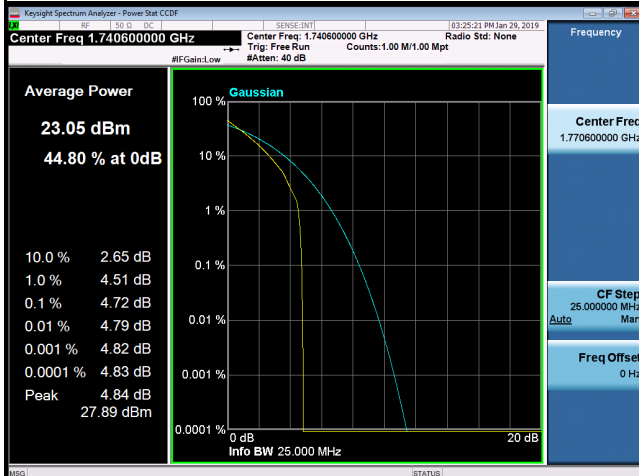
QPSK-132022



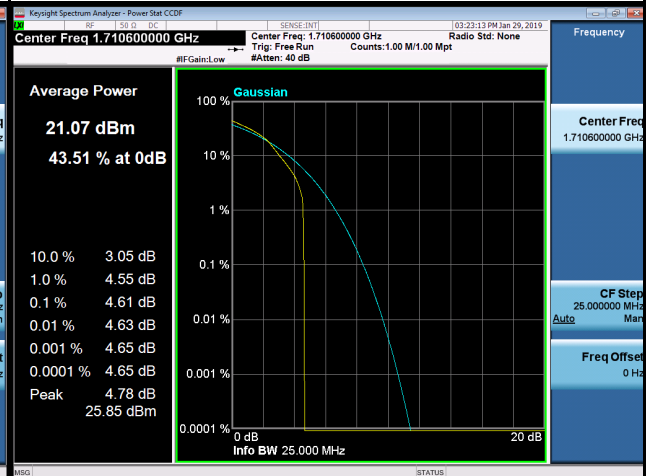
QPSK-132322



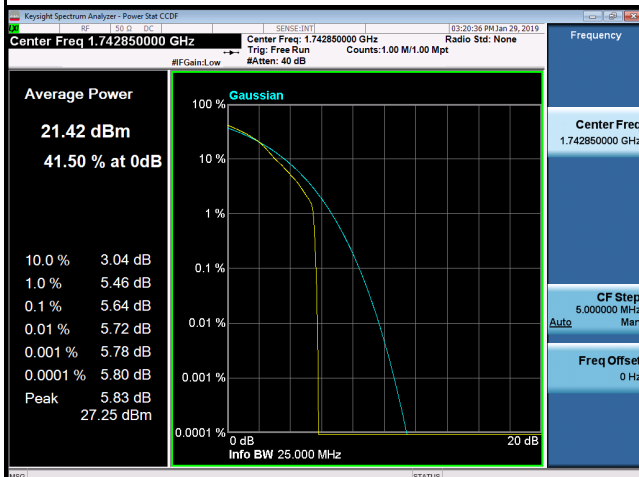
QPSK-132622



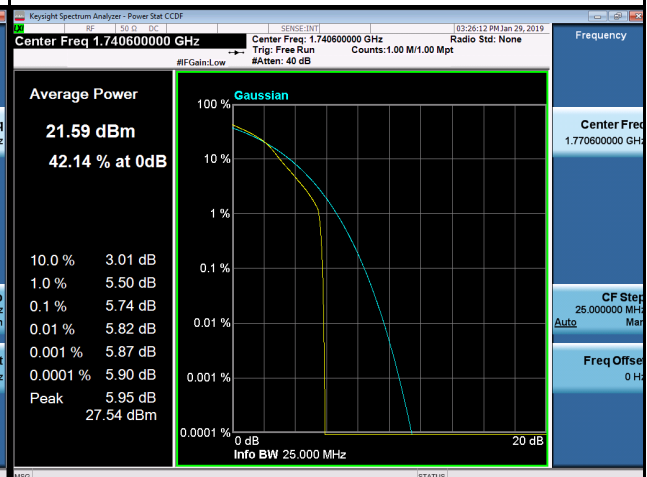
16QAM-132022



16QAM-132322

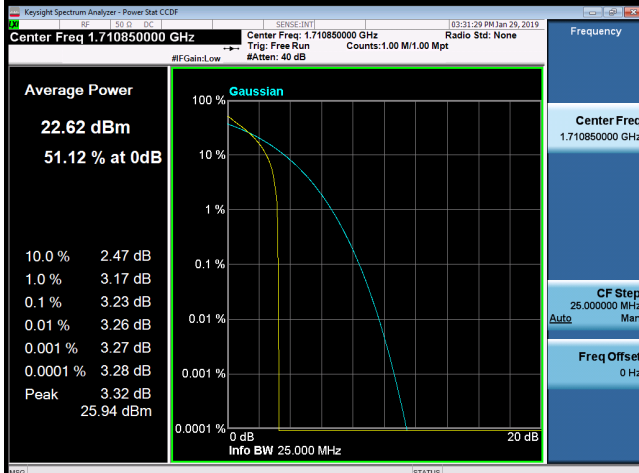


16QAM-132622

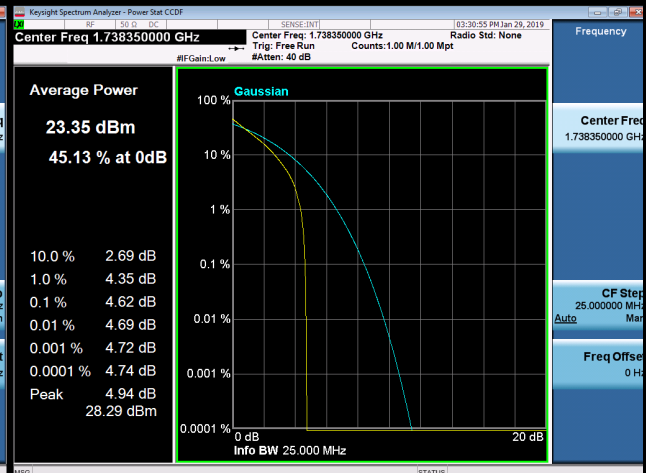


# LTE Band 66 Spectrum Plot\_15M

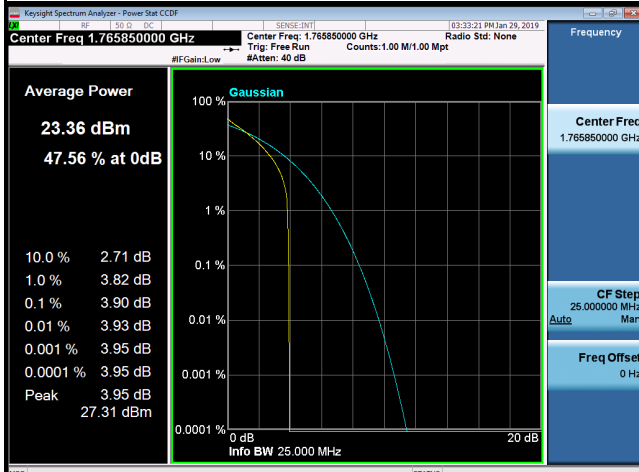
## QPSK-132047



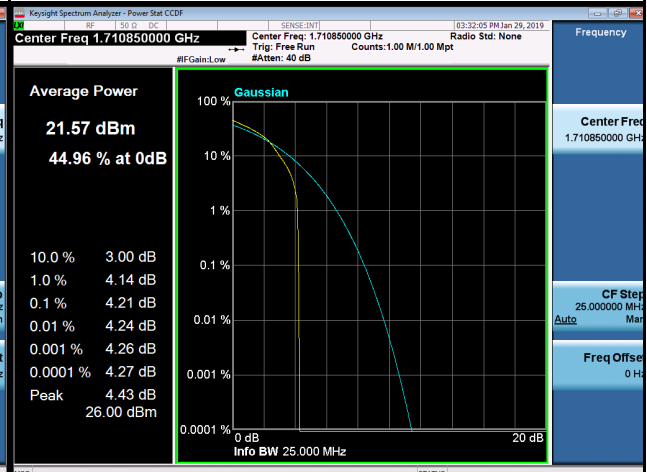
## QPSK-132322



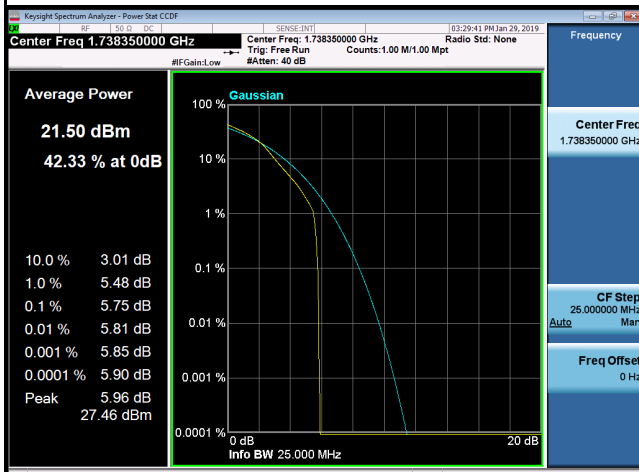
## QPSK-132597



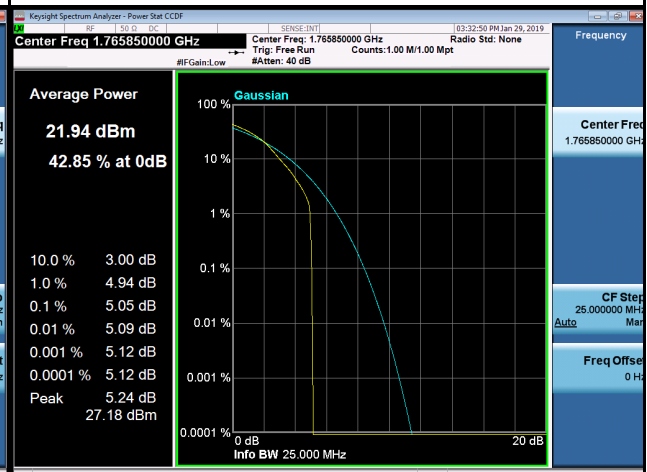
## 16QAM-132047



## 16QAM-132322

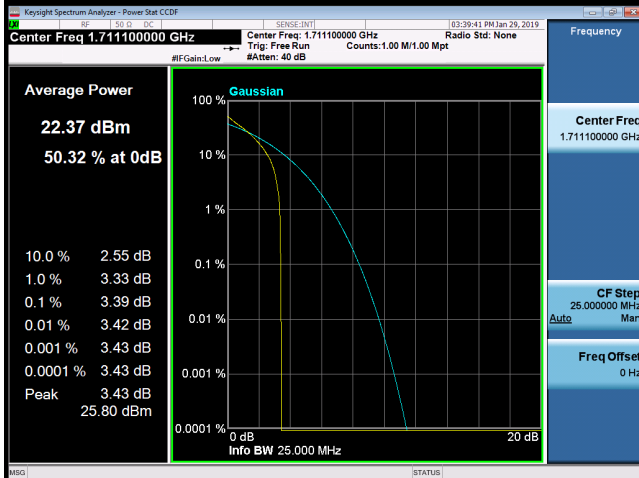


## 16QAM-132597

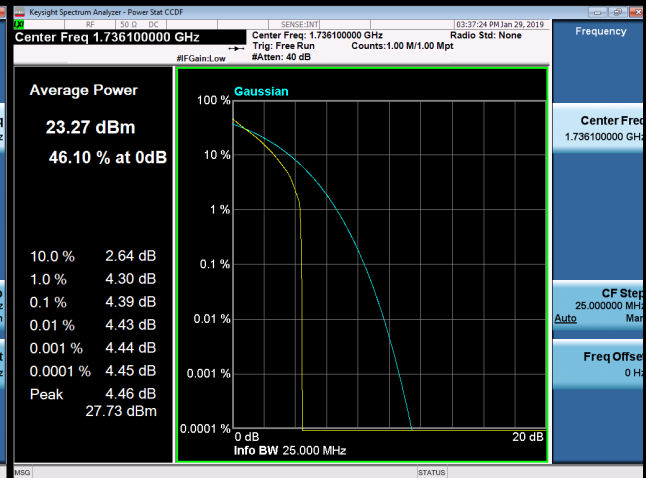


# LTE Band 66 Spectrum Plot\_20M

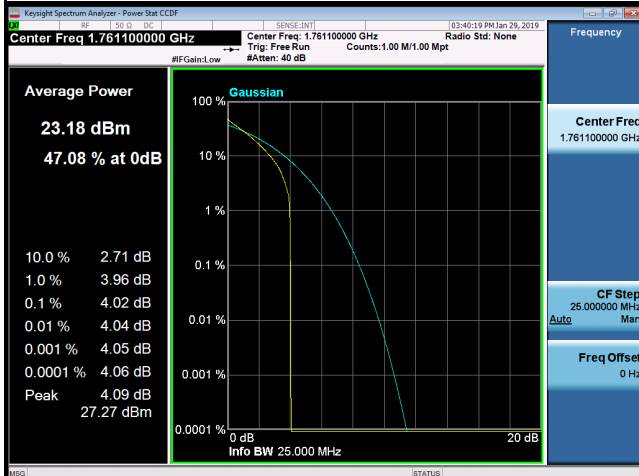
## QPSK-132072



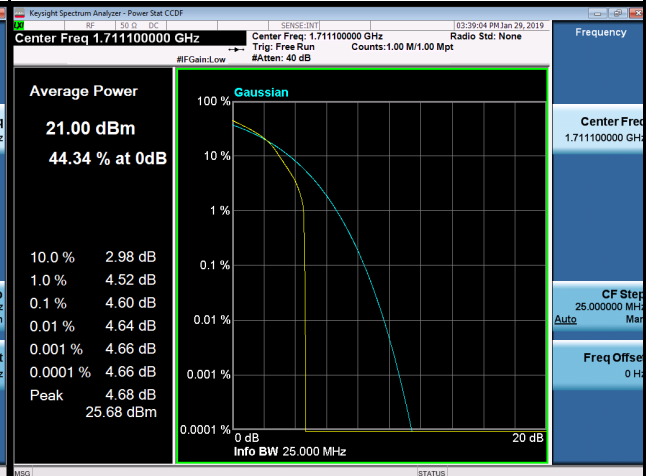
## QPSK-132322



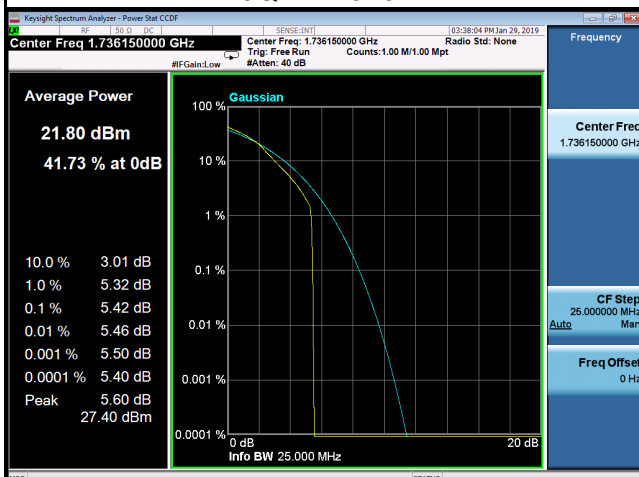
## QPSK-132572



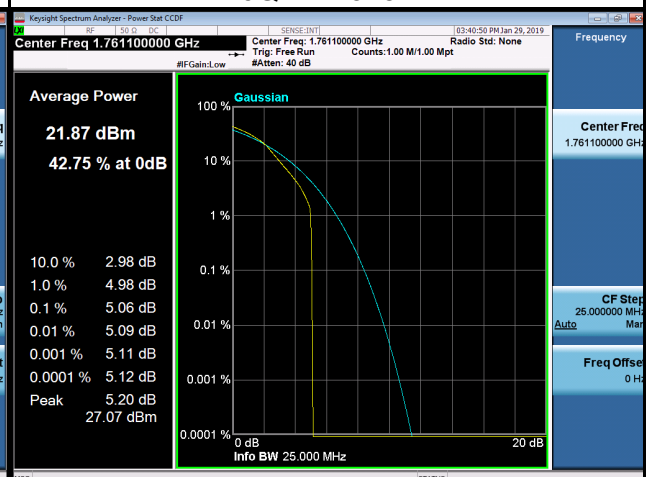
## 16QAM-132072



## 16QAM-132322



## 16QAM-132572





## APPENDIX I - FREQUENCY STABILITY

|            |                         |
|------------|-------------------------|
| Test Mode: | LTE Band 4_CH20175_1.4M |
|------------|-------------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | 5.18                 | 0.002968481           | ± 2.5      |
| 0                    | -4.84                | -0.002773639          |            |
| 10                   | 5.05                 | 0.002893983           |            |
| 20                   | -2.57                | -0.001472779          |            |
| 30                   | -0.72                | -0.000412607          |            |
| 40                   | 0.24                 | 0.000137536           |            |
| 50                   | 1.85                 | 0.001060172           |            |
| 55                   | -2.27                | -0.00130086           |            |
| Max. Deviation (ppm) | 5.18                 | 0.002968481           |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | 5.52                 | 0.003163324           | ± 2.5      |
| 12                   | -1.56                | -0.000893983          |            |
| 10.8                 | 4.05                 | 0.002320917           |            |
| Max. Deviation (ppm) | 5.52                 | 0.003163324           |            |

|            |                       |
|------------|-----------------------|
| Test Mode: | LTE Band 4_CH20175_3M |
|------------|-----------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | 3.82                 | 0.002189112           | ± 2.5      |
| 0                    | -6.03                | -0.003455587          |            |
| 10                   | -4.36                | -0.002498567          |            |
| 20                   | -3.96                | -0.002269341          |            |
| 30                   | 4.36                 | 0.002498567           |            |
| 40                   | 3.52                 | 0.002017192           |            |
| 50                   | -2.78                | -0.001593123          |            |
| 55                   | -5.28                | -0.003025788          |            |
| Max. Deviation (ppm) | -6.03                | -0.003455587          |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | 3.27                 | 0.001873926           | ± 2.5      |
| 12                   | -7.01                | -0.004017192          |            |
| 10.8                 | -4.84                | -0.002773639          |            |
| Max. Deviation (ppm) | -7.01                | -0.004017192          |            |

|            |                       |
|------------|-----------------------|
| Test Mode: | LTE Band 4_CH20175_5M |
|------------|-----------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | 2.80                 | 0.001604585           | ± 2.5      |
| 0                    | 4.01                 | 0.002297994           |            |
| 10                   | -6.55                | -0.003753582          |            |
| 20                   | -4.28                | -0.002452722          |            |
| 30                   | 1.77                 | 0.001014327           |            |
| 40                   | -9.31                | -0.005335244          |            |
| 50                   | -2.75                | -0.001575931          |            |
| 55                   | 4.74                 | 0.002716332           |            |
| Max. Deviation (ppm) | -9.31                | -0.005335244          |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | -1.47                | -0.000842407          | ± 2.5      |
| 12                   | -4.96                | -0.002842407          |            |
| 10.8                 | 2.59                 | 0.001484241           |            |
| Max. Deviation (ppm) | -4.96                | -0.002842407          |            |

|            |                        |
|------------|------------------------|
| Test Mode: | LTE Band 4_CH20175_10M |
|------------|------------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | 4.39                 | 0.002515759           | ± 2.5      |
| 0                    | -1.69                | -0.000968481          |            |
| 10                   | -2.67                | -0.001530086          |            |
| 20                   | -1.73                | -0.000991404          |            |
| 30                   | 2.49                 | 0.001426934           |            |
| 40                   | 4.05                 | 0.002320917           |            |
| 50                   | 4.64                 | 0.002659026           |            |
| 55                   | 4.96                 | 0.002842407           |            |
| Max. Deviation (ppm) | 4.96                 | 0.002842407           |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | 4.77                 | 0.002733524           | ± 2.5      |
| 12                   | 4.40                 | 0.00252149            |            |
| 10.8                 | 3.32                 | 0.001902579           |            |
| Max. Deviation (ppm) | 4.77                 | 0.002733524           |            |

|            |                        |
|------------|------------------------|
| Test Mode: | LTE Band 4_CH20175_15M |
|------------|------------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | 2.07                 | 0.001186246           | ± 2.5      |
| 0                    | 5.70                 | 0.003266476           |            |
| 10                   | 3.78                 | 0.002166189           |            |
| 20                   | -2.10                | -0.001203438          |            |
| 30                   | -4.28                | -0.002452722          |            |
| 40                   | 6.01                 | 0.003444126           |            |
| 50                   | 4.48                 | 0.002567335           |            |
| 55                   | 1.50                 | 0.000859599           |            |
| Max. Deviation (ppm) | 6.01                 | 0.003444126           |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | 6.12                 | 0.003507163           | ± 2.5      |
| 12                   | -1.70                | -0.000974212          |            |
| 10.8                 | 1.55                 | 0.000888252           |            |
| Max. Deviation (ppm) | 6.12                 | 0.003507163           |            |

|            |                        |
|------------|------------------------|
| Test Mode: | LTE Band 4_CH20175_20M |
|------------|------------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | 4.06                 | 0.002326648           | ± 2.5      |
| 0                    | 3.40                 | 0.001948424           |            |
| 10                   | -2.82                | -0.001616046          |            |
| 20                   | -1.66                | -0.000951289          |            |
| 30                   | 7.17                 | 0.004108883           |            |
| 40                   | 2.87                 | 0.001644699           |            |
| 50                   | 5.84                 | 0.003346705           |            |
| 55                   | -2.96                | -0.001696275          |            |
| Max. Deviation (ppm) | 7.17                 | 0.004108883           |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | -2.18                | -0.001249284          | ± 2.5      |
| 12                   | 3.22                 | 0.001845272           |            |
| 10.8                 | 5.94                 | 0.003404011           |            |
| Max. Deviation (ppm) | 5.94                 | 0.003404011           |            |

Test Mode: LTE Band 12\_CH23095\_1.4M

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | -2.15                | 0.003038869           | ± 2.5      |
| 0                    | 6.42                 | 0.009074205           |            |
| 10                   | 3.78                 | 0.005342756           |            |
| 20                   | 8.41                 | 0.011886926           |            |
| 30                   | -5.14                | 0.007265018           |            |
| 40                   | 5.40                 | 0.007632509           |            |
| 50                   | -0.60                | 0.000848057           |            |
| 55                   | -2.62                | 0.00370318            |            |
| Max. Deviation (ppm) | 8.41                 | 0.011886926           |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | 2.42                 | 0.003420495           | ± 2.5      |
| 12                   | -7.65                | 0.010812721           |            |
| 10.8                 | 1.62                 | 0.002289753           |            |
| Max. Deviation (ppm) | -7.65                | 0.010812721           |            |



|            |                        |
|------------|------------------------|
| Test Mode: | LTE Band 12_CH23095_3M |
|------------|------------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | -2.48                | 0.0035053             | ± 2.5      |
| 0                    | -1.20                | 0.001696113           |            |
| 10                   | 4.52                 | 0.006388693           |            |
| 20                   | 4.57                 | 0.006459364           |            |
| 30                   | -0.95                | 0.001342756           |            |
| 40                   | 5.43                 | 0.007674912           |            |
| 50                   | 5.84                 | 0.008254417           |            |
| 55                   | 4.10                 | 0.005795053           |            |
| Max. Deviation (ppm) | 5.84                 | 0.008254417           |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | -6.94                | 0.009809187           | ± 2.5      |
| 12                   | 2.64                 | 0.003731449           |            |
| 10.8                 | 2.20                 | 0.003109541           |            |
| Max. Deviation (ppm) | -6.94                | 0.009809187           |            |

|            |                        |
|------------|------------------------|
| Test Mode: | LTE Band 12_CH23095_5M |
|------------|------------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | 8.10                 | 0.011448763           | ± 2.5      |
| 0                    | -0.93                | -0.001314488          |            |
| 10                   | 5.48                 | 0.007745583           |            |
| 20                   | -4.58                | -0.006473498          |            |
| 30                   | 5.40                 | 0.007632509           |            |
| 40                   | 6.93                 | 0.009795053           |            |
| 50                   | -1.90                | -0.002685512          |            |
| 55                   | 0.84                 | 0.001187279           |            |
| Max. Deviation (ppm) | 8.1                  | 0.011448763           |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | -3.46                | -0.004890459          | ± 2.5      |
| 12                   | -0.65                | -0.000918728          |            |
| 10.8                 | 1.10                 | 0.00155477            |            |
| Max. Deviation (ppm) | -3.46                | -0.004890459          |            |

|            |                         |
|------------|-------------------------|
| Test Mode: | LTE Band 12_CH23095_10M |
|------------|-------------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | 4.81                 | 0.006798587           | ± 2.5      |
| 0                    | 5.61                 | 0.007929329           |            |
| 10                   | 3.40                 | 0.004805654           |            |
| 20                   | -0.98                | -0.001385159          |            |
| 30                   | 5.62                 | 0.007943463           |            |
| 40                   | 3.74                 | 0.005286219           |            |
| 50                   | 4.16                 | 0.005879859           |            |
| 55                   | -0.40                | -0.000565371          |            |
| Max. Deviation (ppm) | 5.62                 | 0.007943463           |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | -4.30                | -0.006077739          | ± 2.5      |
| 12                   | 2.65                 | 0.003745583           |            |
| 10.8                 | -4.83                | -0.006826855          |            |
| Max. Deviation (ppm) | -4.83                | -0.006826855          |            |

|            |                           |
|------------|---------------------------|
| Test Mode: | LTE Band 66_CH132322_1.4M |
|------------|---------------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | 5.18                 | 0.002968481           | ± 2.5      |
| 0                    | -4.84                | -0.002773639          |            |
| 10                   | 5.05                 | 0.002893983           |            |
| 20                   | -2.57                | -0.001472779          |            |
| 30                   | -0.72                | -0.000412607          |            |
| 40                   | 0.24                 | 0.000137536           |            |
| 50                   | 1.85                 | 0.001060172           |            |
| 55                   | -2.27                | -0.00130086           |            |
| Max. Deviation (ppm) | 5.18                 | 0.002968481           |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | 5.52                 | 0.003163324           | ± 2.5      |
| 12                   | -1.56                | -0.000893983          |            |
| 10.8                 | 4.05                 | 0.002320917           |            |
| Max. Deviation (ppm) | 5.52                 | 0.003163324           |            |

|            |                         |
|------------|-------------------------|
| Test Mode: | LTE Band 66_CH132322_3M |
|------------|-------------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | 3.82                 | 0.002189112           | ± 2.5      |
| 0                    | -6.03                | -0.003455587          |            |
| 10                   | -4.36                | -0.002498567          |            |
| 20                   | -3.96                | -0.002269341          |            |
| 30                   | 4.36                 | 0.002498567           |            |
| 40                   | 3.52                 | 0.002017192           |            |
| 50                   | -2.78                | -0.001593123          |            |
| 55                   | -5.28                | -0.003025788          |            |
| Max. Deviation (ppm) | -6.03                | -0.003455587          |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | 3.27                 | 0.001873926           | ± 2.5      |
| 12                   | -7.01                | -0.004017192          |            |
| 10.8                 | -4.84                | -0.002773639          |            |
| Max. Deviation (ppm) | -7.01                | -0.004017192          |            |

Test Mode: LTE Band 66\_CH132322\_5M

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | 2.80                 | 0.001604585           | ± 2.5      |
| 0                    | 4.01                 | 0.002297994           |            |
| 10                   | -6.55                | -0.003753582          |            |
| 20                   | -4.28                | -0.002452722          |            |
| 30                   | 1.77                 | 0.001014327           |            |
| 40                   | -9.31                | -0.005335244          |            |
| 50                   | -2.75                | -0.001575931          |            |
| 55                   | 4.74                 | 0.002716332           |            |
| Max. Deviation (ppm) | -9.31                | -0.005335244          |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | -1.47                | -0.000842407          | ± 2.5      |
| 12                   | -4.96                | -0.002842407          |            |
| 10.8                 | 2.59                 | 0.001484241           |            |
| Max. Deviation (ppm) | -4.96                | -0.002842407          |            |

Test Mode: LTE Band 66\_CH132322\_10M

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | 4.39                 | 0.002515759           | ± 2.5      |
| 0                    | -1.69                | -0.000968481          |            |
| 10                   | -2.67                | -0.001530086          |            |
| 20                   | -1.73                | -0.000991404          |            |
| 30                   | 2.49                 | 0.001426934           |            |
| 40                   | 4.05                 | 0.002320917           |            |
| 50                   | 4.64                 | 0.002659026           |            |
| 55                   | 4.96                 | 0.002842407           |            |
| Max. Deviation (ppm) | 4.96                 | 0.002842407           |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | 4.77                 | 0.002733524           | ± 2.5      |
| 12                   | 4.40                 | 0.00252149            |            |
| 10.8                 | 3.32                 | 0.001902579           |            |
| Max. Deviation (ppm) | 4.77                 | 0.002733524           |            |

|            |                          |
|------------|--------------------------|
| Test Mode: | LTE Band 66_CH132322_15M |
|------------|--------------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | 2.07                 | 0.001186246           | ± 2.5      |
| 0                    | 5.70                 | 0.003266476           |            |
| 10                   | 3.78                 | 0.002166189           |            |
| 20                   | -2.10                | -0.001203438          |            |
| 30                   | -4.28                | -0.002452722          |            |
| 40                   | 6.01                 | 0.003444126           |            |
| 50                   | 4.48                 | 0.002567335           |            |
| 55                   | 1.50                 | 0.000859599           |            |
| Max. Deviation (ppm) | 6.01                 | 0.003444126           |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | 6.12                 | 0.003507163           | ± 2.5      |
| 12                   | -1.70                | -0.000974212          |            |
| 10.8                 | 1.55                 | 0.000888252           |            |
| Max. Deviation (ppm) | 6.12                 | 0.003507163           |            |



|            |                          |
|------------|--------------------------|
| Test Mode: | LTE Band 66_CH132322_20M |
|------------|--------------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -10                  | 4.06                 | 0.002326648           | ± 2.5      |
| 0                    | 3.40                 | 0.001948424           |            |
| 10                   | -2.82                | -0.001616046          |            |
| 20                   | -1.66                | -0.000951289          |            |
| 30                   | 7.17                 | 0.004108883           |            |
| 40                   | 2.87                 | 0.001644699           |            |
| 50                   | 5.84                 | 0.003346705           |            |
| 55                   | -2.96                | -0.001696275          |            |
| Max. Deviation (ppm) | 7.17                 | 0.004108883           |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 13.2                 | -2.18                | -0.001249284          | ± 2.5      |
| 12                   | 3.22                 | 0.001845272           |            |
| 10.8                 | 5.94                 | 0.003404011           |            |
| Max. Deviation (ppm) | 5.94                 | 0.003404011           |            |

End of Test Report