

LTE Cat NB Appendix-PAR

| LTE FDD Band 2, SCS:3.75KHz |         |                   |        |                     |               |         |
|-----------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                  | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                             |         | Size              | Offset |                     |               |         |
| QPSK                        | LCH     | 1                 | 0      | 3.28                | 13            | Pass    |
|                             | MCH     | 1                 | 0      | 3.23                | 13            | Pass    |
|                             | HCH     | 1                 | 47     | 3.27                | 13            | Pass    |
| BPSK                        | LCH     | 1                 | 0      | 2.73                | 13            | Pass    |
|                             | MCH     | 1                 | 0      | 2.71                | 13            | Pass    |
|                             | HCH     | 1                 | 47     | 2.69                | 13            | Pass    |

| LTE FDD Band 2, SCS:15KHz |         |                   |        |                     |               |         |
|---------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                           |         | Size              | Offset |                     |               |         |
| QPSK                      | LCH     | 12                | 0      | 10.16               | 13            | Pass    |
|                           | MCH     | 12                | 0      | 10.10               | 13            | Pass    |
|                           | HCH     | 12                | 0      | 9.93                | 13            | Pass    |
| BPSK                      | LCH     | 1                 | 0      | 4.63                | 13            | Pass    |
|                           | MCH     | 1                 | 0      | 4.60                | 13            | Pass    |
|                           | HCH     | 1                 | 11     | 4.65                | 13            | Pass    |

| LTE FDD Band 4, SCS:3.75KHz |         |                   |        |                     |               |         |
|-----------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                  | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                             |         | Size              | Offset |                     |               |         |
| QPSK                        | LCH     | 1                 | 0      | 3.31                | 13            | Pass    |
|                             | MCH     | 1                 | 0      | 3.34                | 13            | Pass    |
|                             | HCH     | 1                 | 47     | 3.45                | 13            | Pass    |
| BPSK                        | LCH     | 1                 | 0      | 2.92                | 13            | Pass    |
|                             | MCH     | 1                 | 0      | 2.86                | 13            | Pass    |
|                             | HCH     | 1                 | 47     | 2.95                | 13            | Pass    |

| LTE FDD Band 4, SCS:15KHz |         |                   |        |                     |               |         |
|---------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                           |         | Size              | Offset |                     |               |         |
| QPSK                      | LCH     | 12                | 0      | 10.50               | 13            | Pass    |
|                           | MCH     | 12                | 0      | 10.43               | 13            | Pass    |
|                           | HCH     | 12                | 0      | 10.39               | 13            | Pass    |
| BPSK                      | LCH     | 1                 | 0      | 4.71                | 13            | Pass    |
|                           | MCH     | 1                 | 0      | 4.68                | 13            | Pass    |
|                           | HCH     | 1                 | 11     | 4.71                | 13            | Pass    |

| LTE FDD Band 5, SCS:3.75KHz |         |                   |        |                     |               |         |
|-----------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                  | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                             |         | Size              | Offset |                     |               |         |
| QPSK                        | LCH     | 1                 | 0      | 3.10                | 13            | Pass    |
|                             | MCH     | 1                 | 0      | 3.10                | 13            | Pass    |
|                             | HCH     | 1                 | 47     | 3.14                | 13            | Pass    |
| BPSK                        | LCH     | 1                 | 0      | 2.57                | 13            | Pass    |
|                             | MCH     | 1                 | 0      | 2.57                | 13            | Pass    |
|                             | HCH     | 1                 | 47     | 2.62                | 13            | Pass    |

| LTE FDD Band 5, SCS:15KHz |         |                   |        |                     |               |         |
|---------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                           |         | Size              | Offset |                     |               |         |
| QPSK                      | LCH     | 12                | 0      | 10.03               | 13            | Pass    |
|                           | MCH     | 12                | 0      | 9.91                | 13            | Pass    |
|                           | HCH     | 12                | 0      | 10.16               | 13            | Pass    |
| BPSK                      | LCH     | 1                 | 0      | 4.34                | 13            | Pass    |
|                           | MCH     | 1                 | 0      | 4.36                | 13            | Pass    |
|                           | HCH     | 1                 | 11     | 4.46                | 13            | Pass    |

| LTE FDD Band 12, SCS:3.75KHz |         |                   |        |                     |               |         |
|------------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                   | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                              |         | Size              | Offset |                     |               |         |
| QPSK                         | LCH     | 1                 | 0      | 3.22                | 13            | Pass    |
|                              | MCH     | 1                 | 0      | 3.30                | 13            | Pass    |
|                              | HCH     | 1                 | 47     | 3.24                | 13            | Pass    |
| BPSK                         | LCH     | 1                 | 0      | 2.70                | 13            | Pass    |
|                              | MCH     | 1                 | 0      | 2.72                | 13            | Pass    |
|                              | HCH     | 1                 | 47     | 2.76                | 13            | Pass    |

| LTE FDD Band 12, SCS:15KHz |         |                   |        |                     |               |         |
|----------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                 | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                            |         | Size              | Offset |                     |               |         |
| QPSK                       | LCH     | 12                | 0      | 10.39               | 13            | Pass    |
|                            | MCH     | 12                | 0      | 10.23               | 13            | Pass    |
|                            | HCH     | 12                | 0      | 10.14               | 13            | Pass    |
| BPSK                       | LCH     | 1                 | 0      | 4.46                | 13            | Pass    |
|                            | MCH     | 1                 | 0      | 4.48                | 13            | Pass    |
|                            | HCH     | 1                 | 11     | 4.52                | 13            | Pass    |

| LTE FDD Band 13, SCS:3.75KHz |         |                   |        |                     |               |         |
|------------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                   | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                              |         | Size              | Offset |                     |               |         |
| QPSK                         | LCH     | 1                 | 0      | 3.12                | 13            | Pass    |
|                              | MCH     | 1                 | 0      | 3.11                | 13            | Pass    |
|                              | HCH     | 1                 | 47     | 3.21                | 13            | Pass    |
| BPSK                         | LCH     | 1                 | 0      | 2.61                | 13            | Pass    |
|                              | MCH     | 1                 | 0      | 2.59                | 13            | Pass    |
|                              | HCH     | 1                 | 47     | 2.65                | 13            | Pass    |

| LTE FDD Band 13, SCS:15KHz |         |                   |        |                     |               |         |
|----------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                 | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                            |         | Size              | Offset |                     |               |         |
| QPSK                       | LCH     | 12                | 0      | 10.24               | 13            | Pass    |
|                            | MCH     | 12                | 0      | 10.22               | 13            | Pass    |
|                            | HCH     | 12                | 0      | 10.19               | 13            | Pass    |
| BPSK                       | LCH     | 1                 | 0      | 4.42                | 13            | Pass    |
|                            | MCH     | 1                 | 0      | 4.48                | 13            | Pass    |
|                            | HCH     | 1                 | 11     | 4.53                | 13            | Pass    |

| LTE FDD Band 25, SCS:3.75KHz |         |                   |        |                     |               |         |
|------------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                   | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                              |         | Size              | Offset |                     |               |         |
| QPSK                         | LCH     | 1                 | 0      | 3.39                | 13            | Pass    |
|                              | MCH     | 1                 | 0      | 3.31                | 13            | Pass    |
|                              | HCH     | 1                 | 47     | 3.25                | 13            | Pass    |
| BPSK                         | LCH     | 1                 | 0      | 2.77                | 13            | Pass    |
|                              | MCH     | 1                 | 0      | 2.70                | 13            | Pass    |
|                              | HCH     | 1                 | 47     | 2.68                | 13            | Pass    |

| LTE FDD Band 25, SCS:15KHz |         |                   |        |                     |               |         |
|----------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                 | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                            |         | Size              | Offset |                     |               |         |
| QPSK                       | LCH     | 12                | 0      | 9.88                | 13            | Pass    |
|                            | MCH     | 12                | 0      | 10.15               | 13            | Pass    |
|                            | HCH     | 12                | 0      | 9.78                | 13            | Pass    |
| BPSK                       | LCH     | 1                 | 0      | 5.29                | 13            | Pass    |
|                            | MCH     | 1                 | 0      | 4.58                | 13            | Pass    |
|                            | HCH     | 1                 | 11     | 4.67                | 13            | Pass    |

| LTE FDD Band 66, SCS:3.75KHz |         |                   |        |                     |               |         |
|------------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                   | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                              |         | Size              | Offset |                     |               |         |
| QPSK                         | LCH     | 1                 | 0      | 3.36                | 13            | Pass    |
|                              | MCH     | 1                 | 0      | 3.37                | 13            | Pass    |
|                              | HCH     | 1                 | 47     | 3.44                | 13            | Pass    |
| BPSK                         | LCH     | 1                 | 0      | 2.86                | 13            | Pass    |
|                              | MCH     | 1                 | 0      | 2.86                | 13            | Pass    |
|                              | HCH     | 1                 | 47     | 2.93                | 13            | Pass    |

| LTE FDD Band 66, SCS:15KHz |         |                   |        |                     |               |         |
|----------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                 | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                            |         | Size              | Offset |                     |               |         |
| QPSK                       | LCH     | 12                | 0      | 10.07               | 13            | Pass    |
|                            | MCH     | 12                | 0      | 10.27               | 13            | Pass    |
|                            | HCH     | 12                | 0      | 10.36               | 13            | Pass    |
| BPSK                       | LCH     | 1                 | 0      | 4.67                | 13            | Pass    |
|                            | MCH     | 1                 | 0      | 4.64                | 13            | Pass    |
|                            | HCH     | 1                 | 11     | 5.92                | 13            | Pass    |

| LTE FDD Band 71, SCS:3.75KHz |         |                   |        |                     |               |         |
|------------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                   | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                              |         | Size              | Offset |                     |               |         |
| QPSK                         | LCH     | 1                 | 0      | 3.31                | 13            | Pass    |
|                              | MCH     | 1                 | 0      | 3.33                | 13            | Pass    |
|                              | HCH     | 1                 | 47     | 3.26                | 13            | Pass    |
| BPSK                         | LCH     | 1                 | 0      | 2.83                | 13            | Pass    |
|                              | MCH     | 1                 | 0      | 2.76                | 13            | Pass    |
|                              | HCH     | 1                 | 47     | 2.77                | 13            | Pass    |

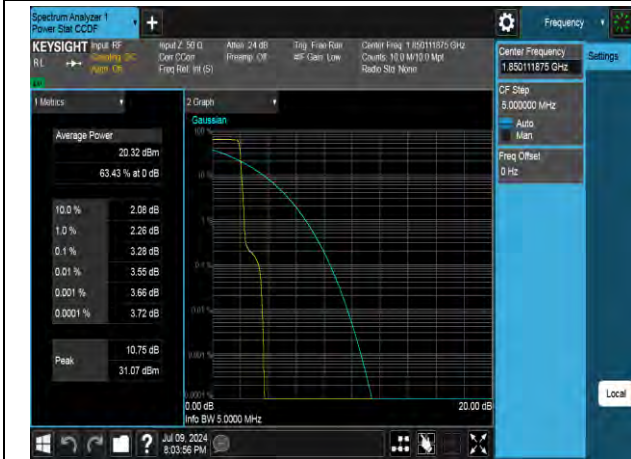
| LTE FDD Band 71, SCS:15KHz |         |                   |        |                     |               |         |
|----------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                 | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                            |         | Size              | Offset |                     |               |         |
| QPSK                       | LCH     | 12                | 0      | 10.71               | 13            | Pass    |
|                            | MCH     | 12                | 0      | 10.50               | 13            | Pass    |
|                            | HCH     | 12                | 0      | 10.53               | 13            | Pass    |
| BPSK                       | LCH     | 1                 | 0      | 4.47                | 13            | Pass    |
|                            | MCH     | 1                 | 0      | 4.47                | 13            | Pass    |
|                            | HCH     | 1                 | 11     | 4.55                | 13            | Pass    |

| LTE FDD Band 85, SCS:3.75KHz |         |                   |        |                     |               |         |
|------------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                   | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                              |         | Size              | Offset |                     |               |         |
| QPSK                         | LCH     | 1                 | 0      | 3.20                | 13            | Pass    |
|                              | MCH     | 1                 | 0      | 3.26                | 13            | Pass    |
|                              | HCH     | 1                 | 47     | 3.17                | 13            | Pass    |
| BPSK                         | LCH     | 1                 | 0      | 2.74                | 13            | Pass    |
|                              | MCH     | 1                 | 0      | 2.68                | 13            | Pass    |
|                              | HCH     | 1                 | 47     | 2.71                | 13            | Pass    |

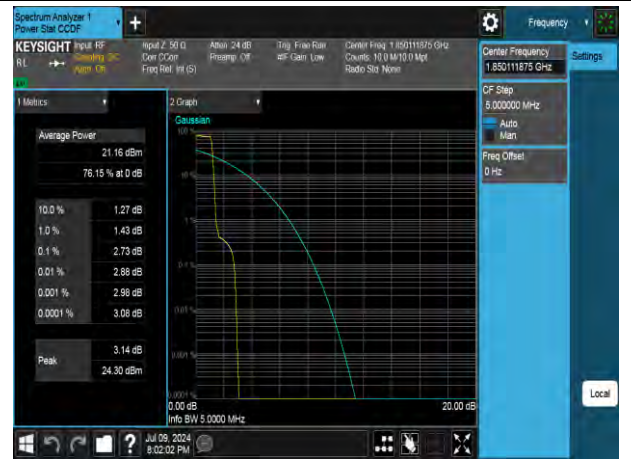
| LTE FDD Band 85, SCS:15KHz |         |                   |        |                     |               |         |
|----------------------------|---------|-------------------|--------|---------------------|---------------|---------|
| Modulation                 | Channel | N <sub>tone</sub> |        | Test result<br>(dB) | Limit<br>(dB) | Verdict |
|                            |         | Size              | Offset |                     |               |         |
| QPSK                       | LCH     | 12                | 0      | 10.42               | 13            | Pass    |
|                            | MCH     | 12                | 0      | 10.40               | 13            | Pass    |
|                            | HCH     | 12                | 0      | 10.45               | 13            | Pass    |
| BPSK                       | LCH     | 1                 | 0      | 4.53                | 13            | Pass    |
|                            | MCH     | 1                 | 0      | 4.46                | 13            | Pass    |
|                            | HCH     | 1                 | 11     | 6.14                | 13            | Pass    |

# LTE FDD Band 2, SCS:3.75KHz

## QPSK Low channel-1@0



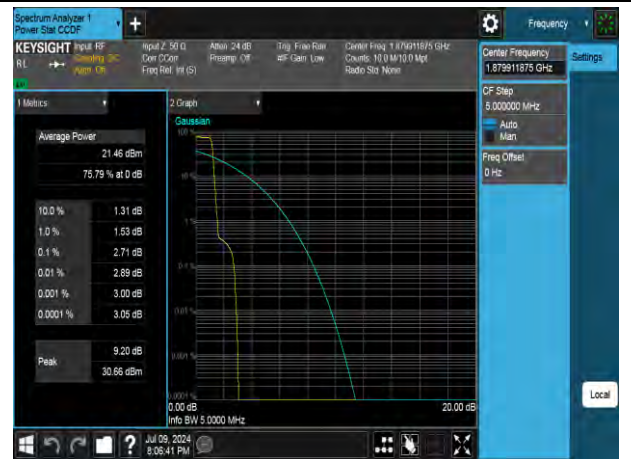
## BPSK Low channel-1@0



## QPSK Middle channel-1@0



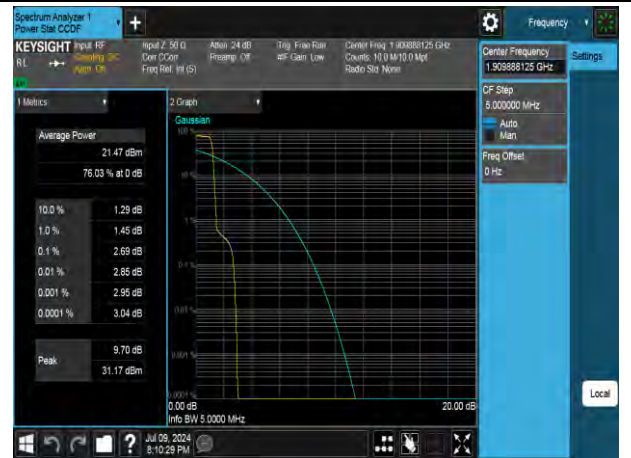
## BPSK Middle channel-1@0



## QPSK High channel-1@max



## BPSK High channel-1@max

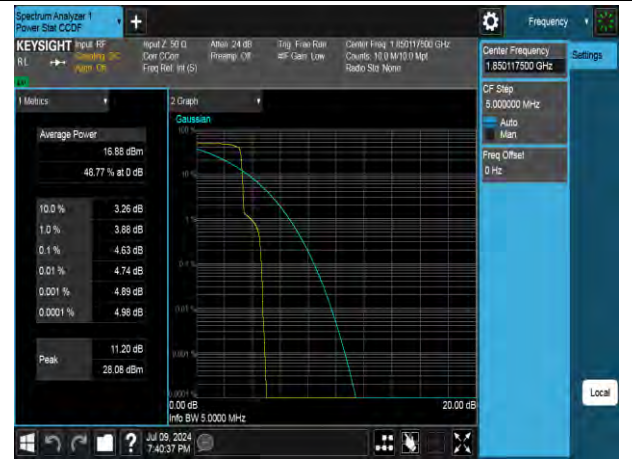


# LTE FDD Band 2, SCS:15KHz

## QPSK Low channel-12@0



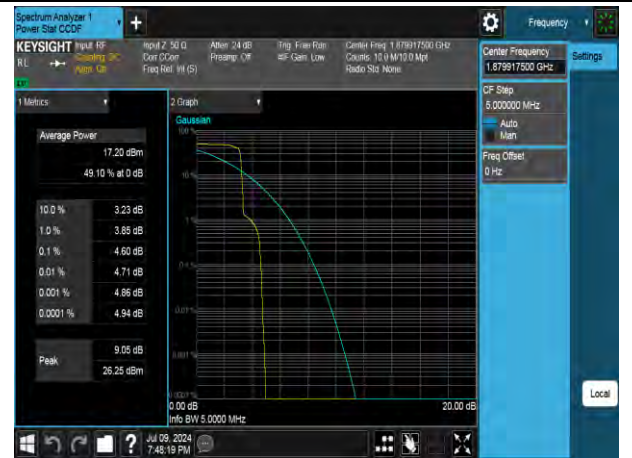
## BPSK Low channel-1@0



## QPSK Middle channel-12@0



## BPSK Middle channel-1@0



## QPSK High channel-12@0



## BPSK High channel-1@max

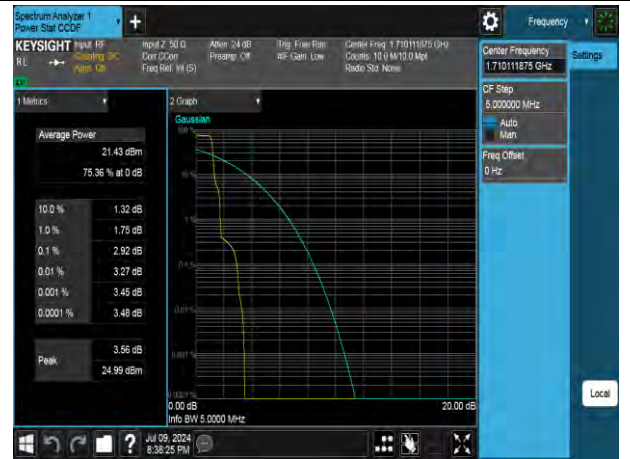


# LTE FDD Band 4, SCS:3.75KHz

## QPSK Low channel-1@0



## BPSK Low channel-1@0



## QPSK Middle channel-1@0



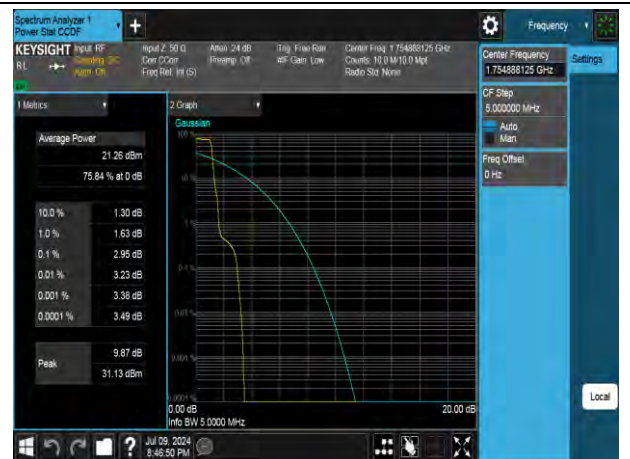
## BPSK Middle channel-1@0



## QPSK High channel-1@max



## BPSK High channel-1@max

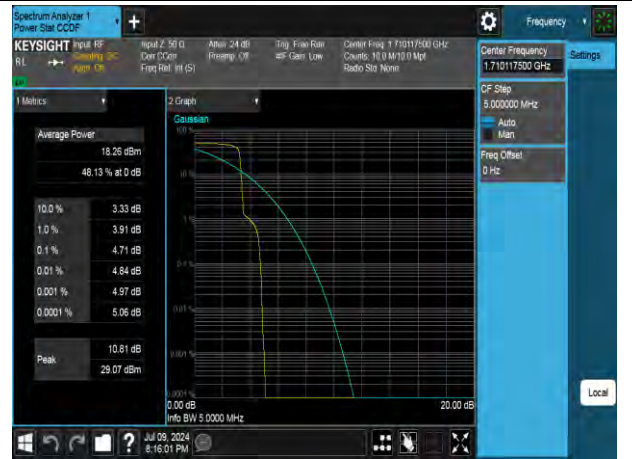


# LTE FDD Band 4, SCS:15KHz

## QPSK Low channel-12@0



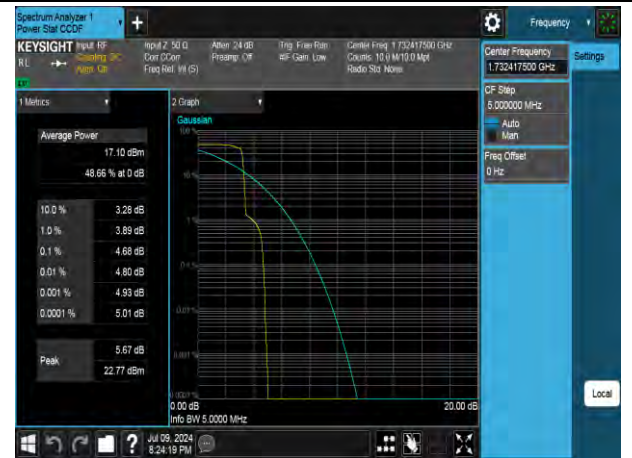
## BPSK Low channel-1@0



## QPSK Middle channel-12@0



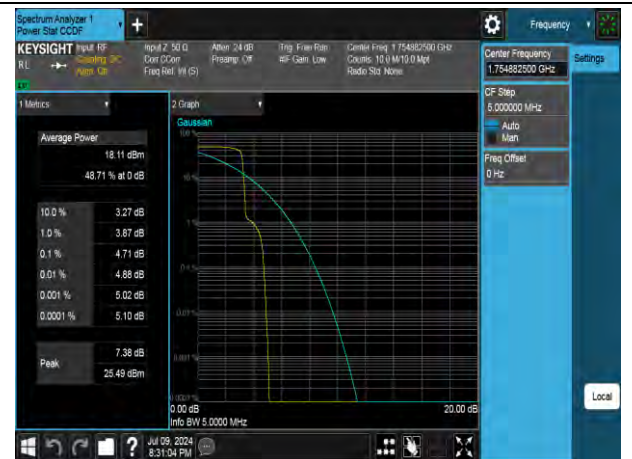
## BPSK Middle channel-1@0



## QPSK High channel-12@0



## BPSK High channel-1@max

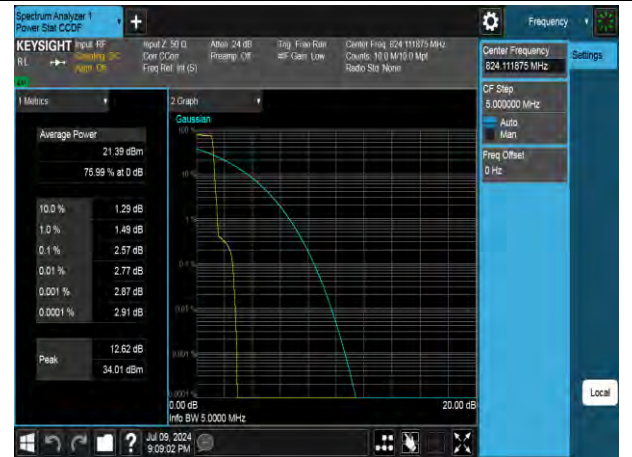


# LTE FDD Band 5, SCS:3.75KHz

## QPSK Low channel-1@0



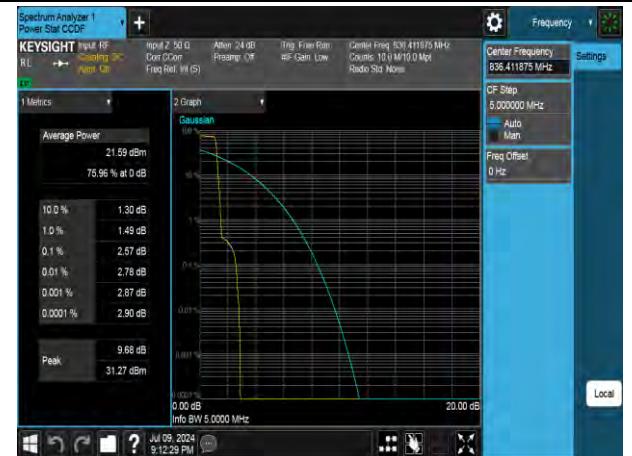
## BPSK Low channel-1@0



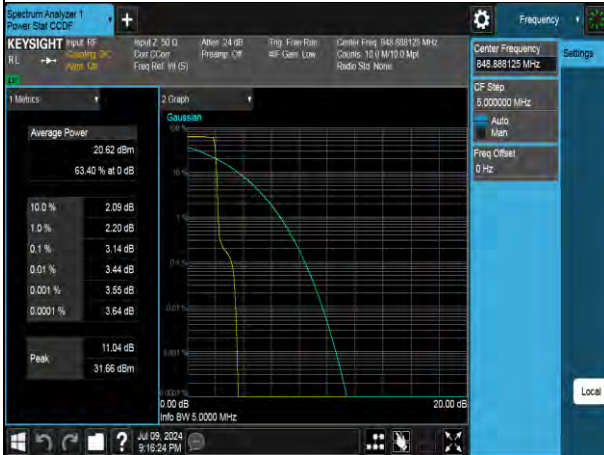
## QPSK Middle channel-1@0



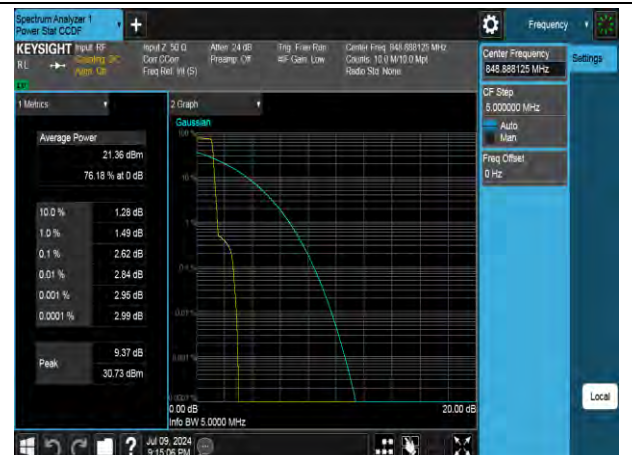
## BPSK Middle channel-1@0



## QPSK High channel-1@max



## BPSK High channel-1@max

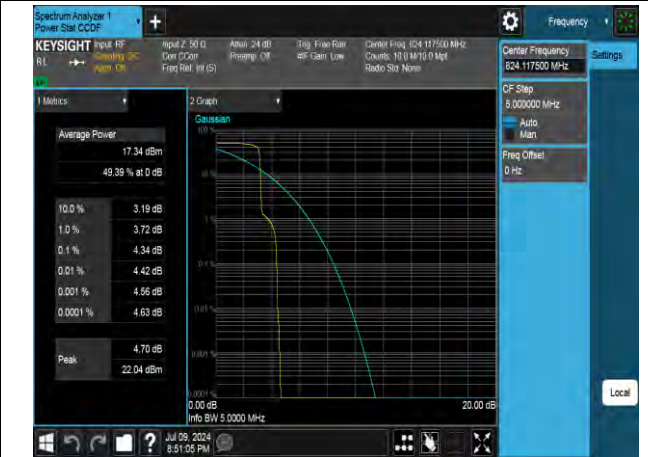


# LTE FDD Band 5, SCS:15KHz

## QPSK Low channel-12@0



## BPSK Low channel-1@0



## QPSK Middle channel-12@0



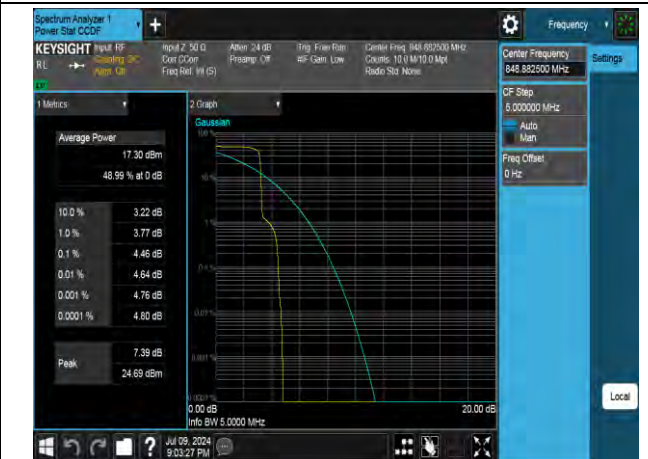
## BPSK Middle channel-1@0



## QPSK High channel-12@0



## BPSK High channel-1@max



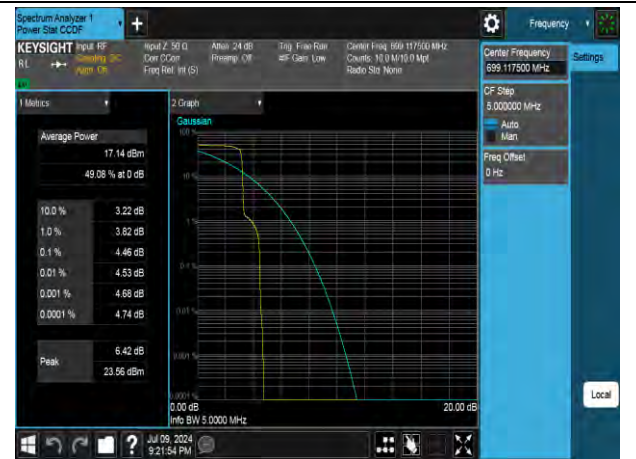


# LTE FDD Band 12, SCS:15KHz

## QPSK Low channel-12@0



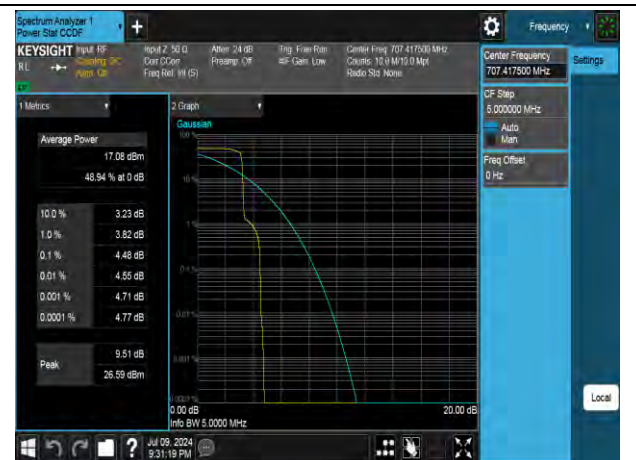
## BPSK Low channel-1@0



## QPSK Middle channel-12@0



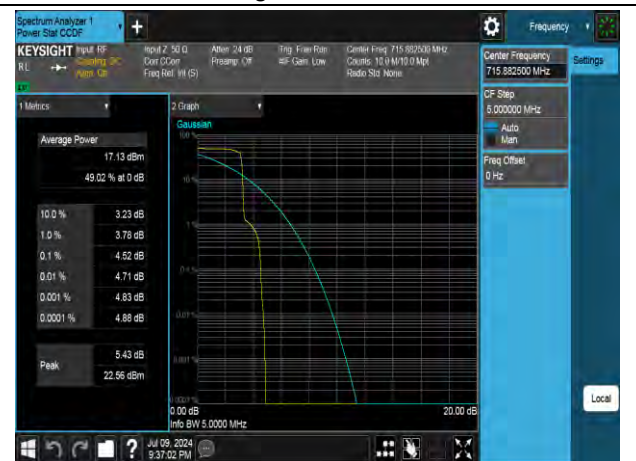
## BPSK Middle channel-1@0



## QPSK High channel-12@0

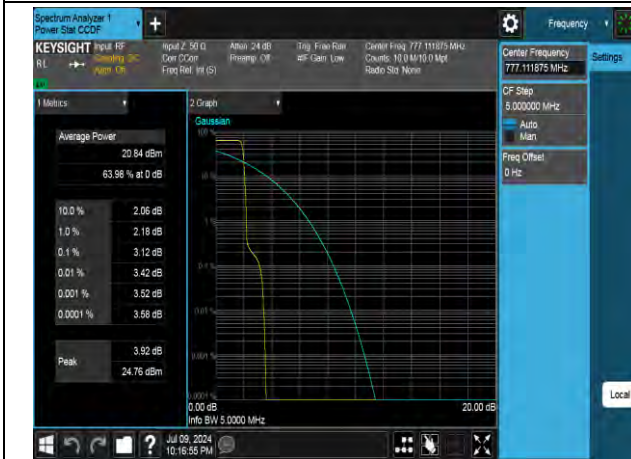


## BPSK High channel-1@max

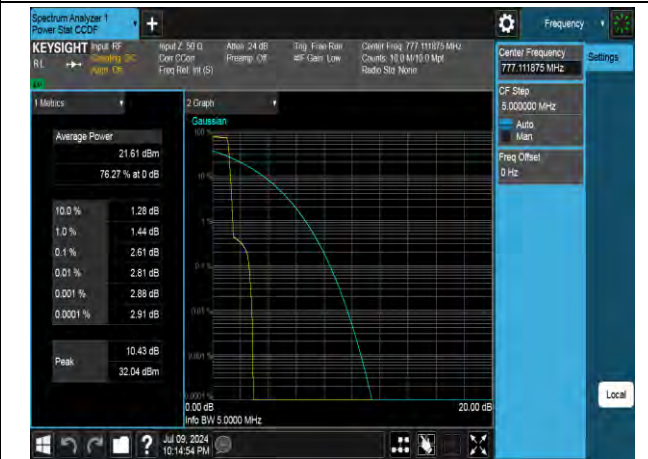


# LTE FDD Band 13, SCS:3.75KHz

QPSK Low channel-1@0



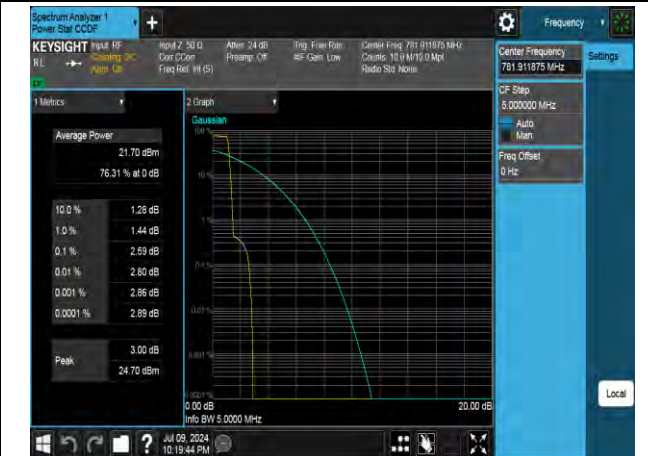
BPSK Low channel-1@0



QPSK Middle channel-1@0



BPSK Middle channel-1@0



QPSK High channel-1@max



BPSK High channel-1@max

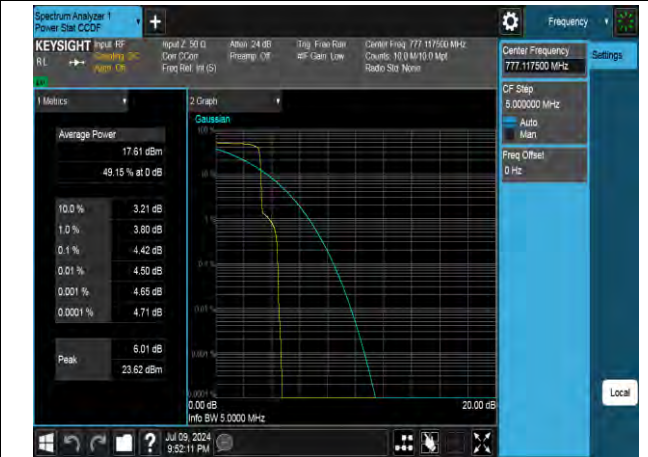


# LTE FDD Band 13, SCS:15KHz

## QPSK Low channel-12@0



## BPSK Low channel-1@0



## QPSK Middle channel-12@0



## BPSK Middle channel-1@0



## QPSK High channel-12@0



## BPSK High channel-1@max



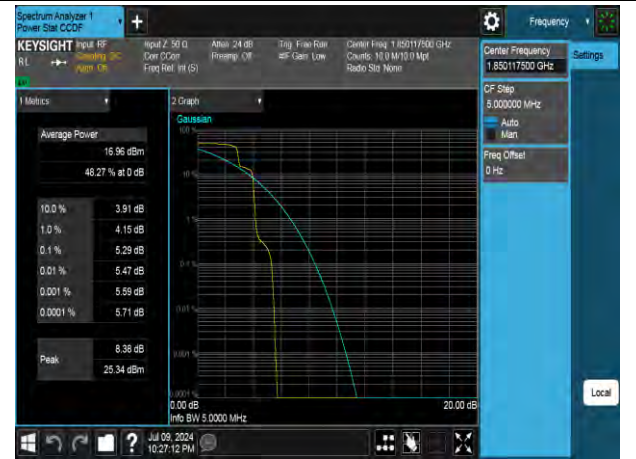


# LTE FDD Band 25, SCS:15KHz

## QPSK Low channel-12@0



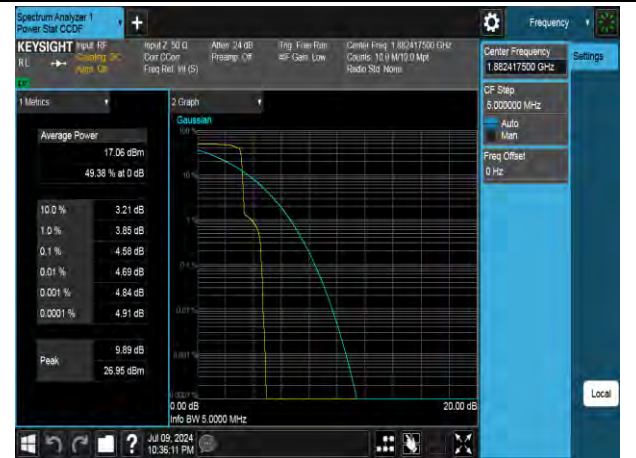
## BPSK Low channel-1@0



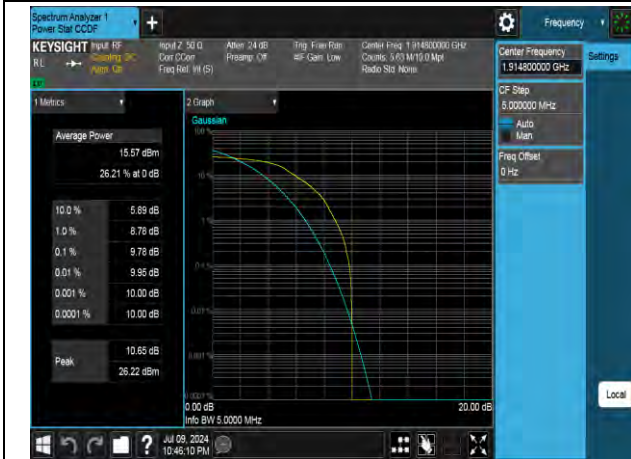
## QPSK Middle channel-12@0



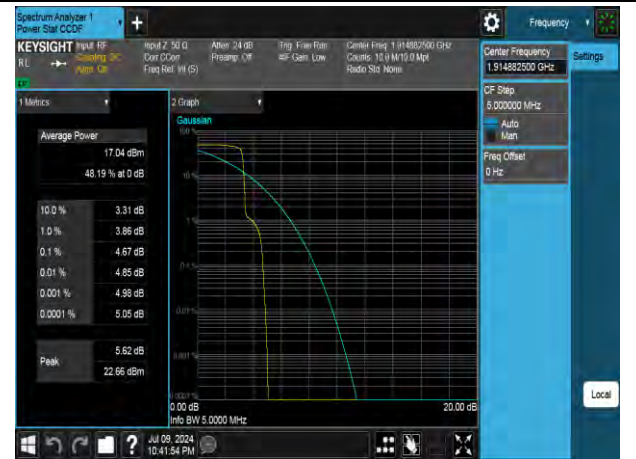
## BPSK Middle channel-1@0



## QPSK High channel-12@0

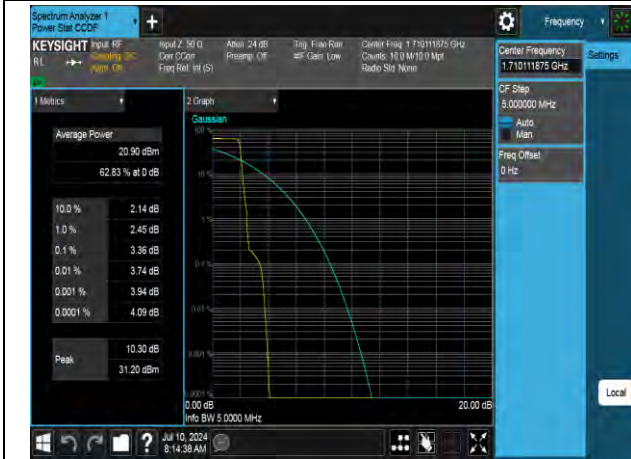


## BPSK High channel-1@max

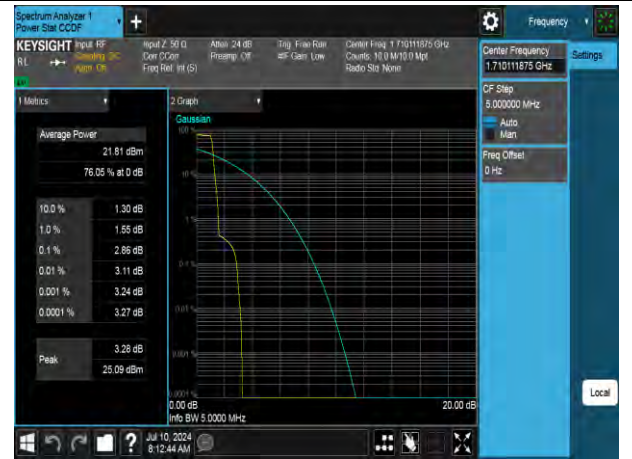


# LTE FDD Band 66, SCS:3.75KHz

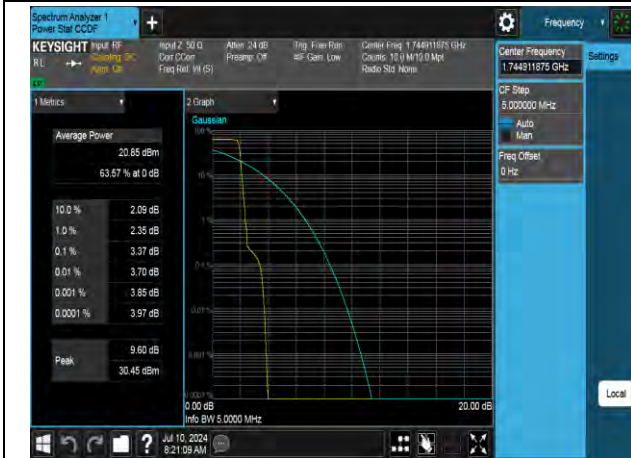
## QPSK Low channel-1@0



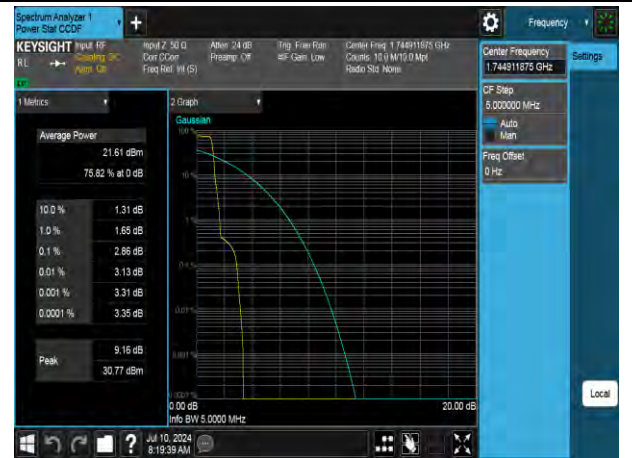
## BPSK Low channel-1@0



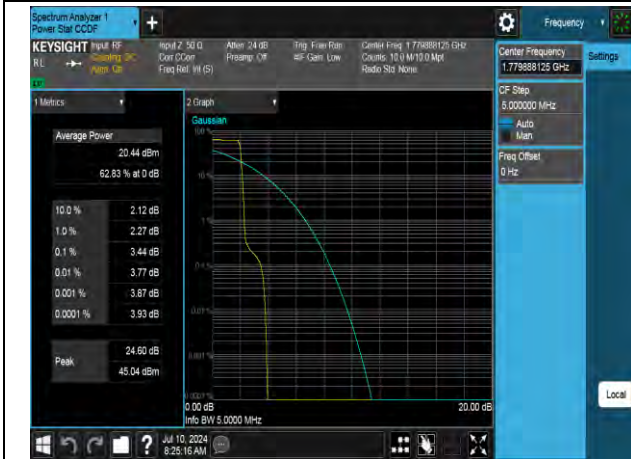
## QPSK Middle channel-1@0



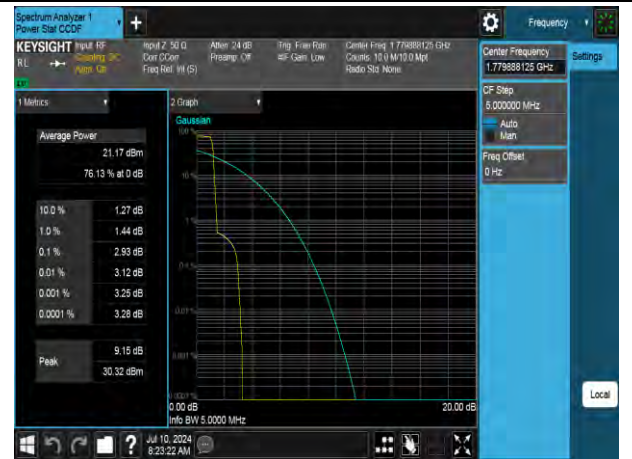
## BPSK Middle channel-1@0



## QPSK High channel-1@max

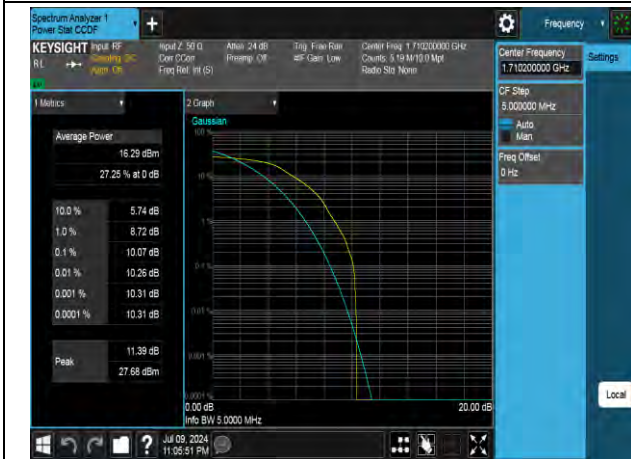


## BPSK High channel-1@max

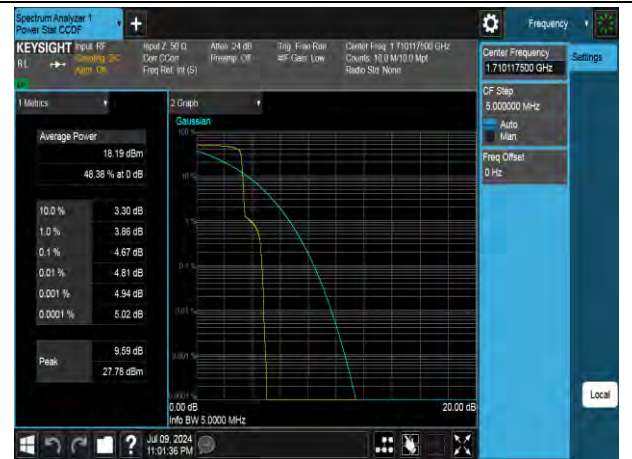


# LTE FDD Band 66, SCS:15KHz

## QPSK Low channel-12@0



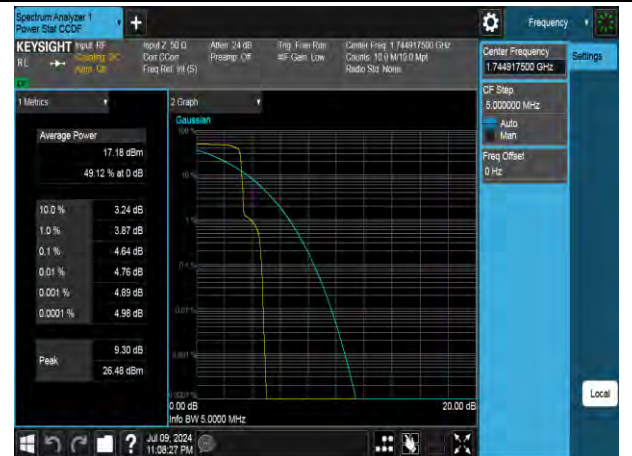
## BPSK Low channel-1@0



## QPSK Middle channel-12@0



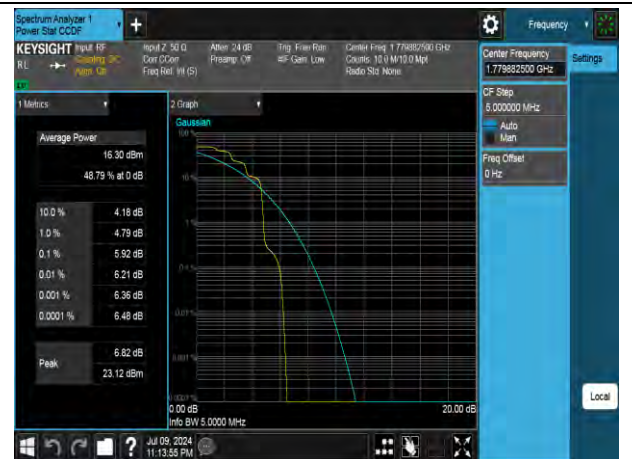
## BPSK Middle channel-1@0



## QPSK High channel-12@0



## BPSK High channel-1@max

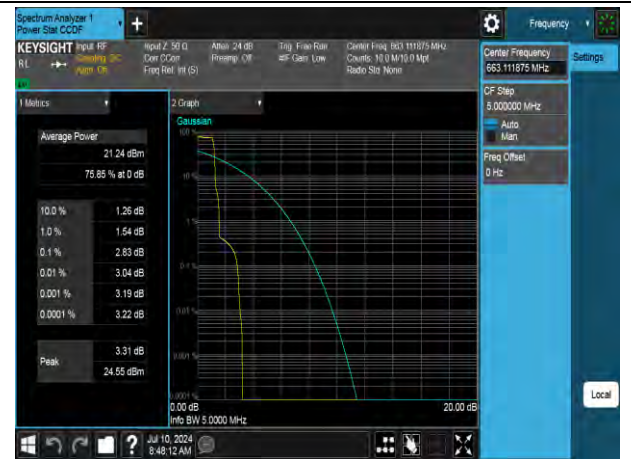


# LTE FDD Band 71, SCS:3.75KHz

## QPSK Low channel-1@0



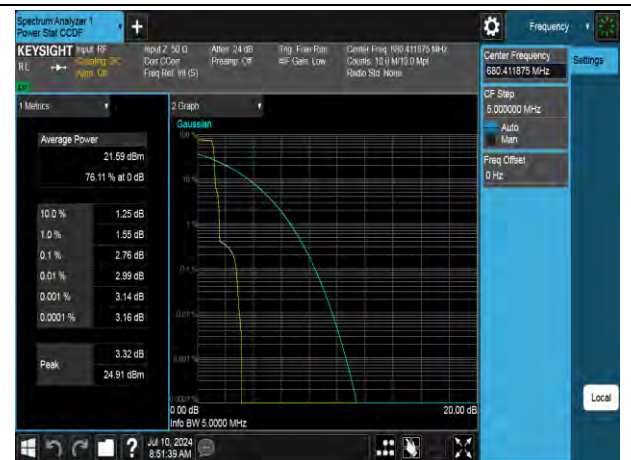
## BPSK Low channel-1@0



## QPSK Middle channel-1@0



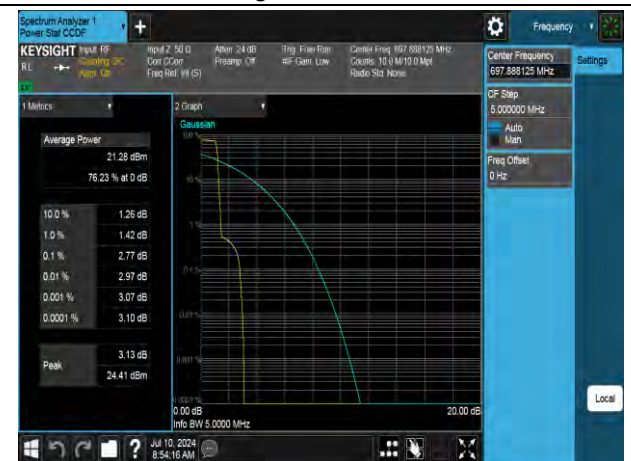
## BPSK Middle channel-1@0



## QPSK High channel-1@max



## BPSK High channel-1@max

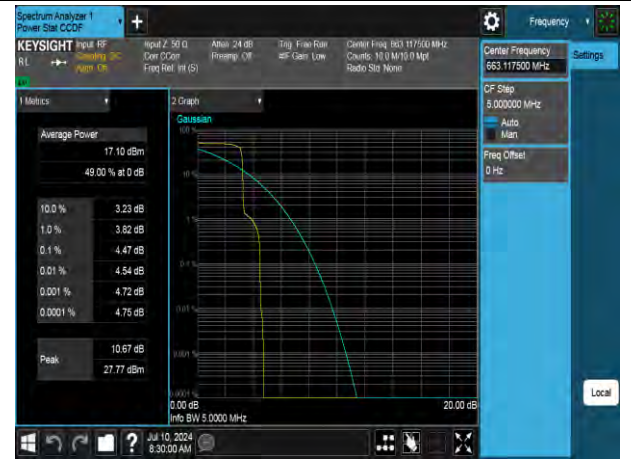


# LTE FDD Band 71, SCS:15KHz

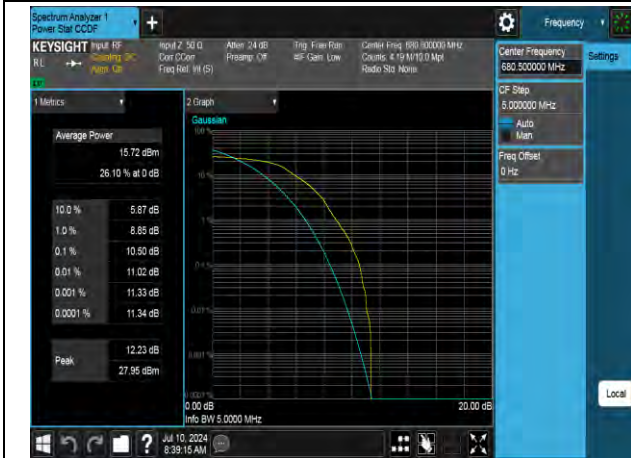
## QPSK Low channel-12@0



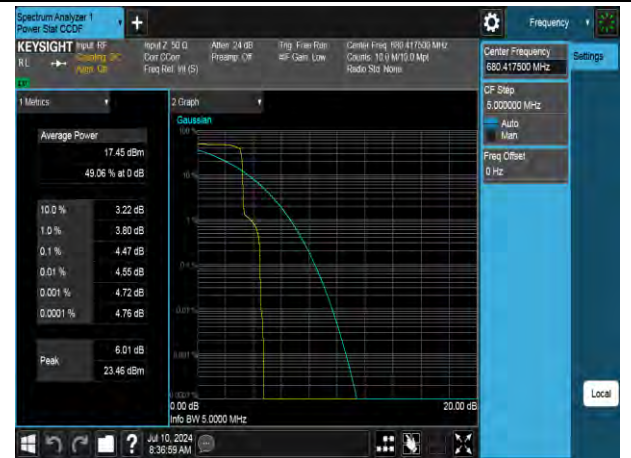
## BPSK Low channel-1@0



## QPSK Middle channel-12@0



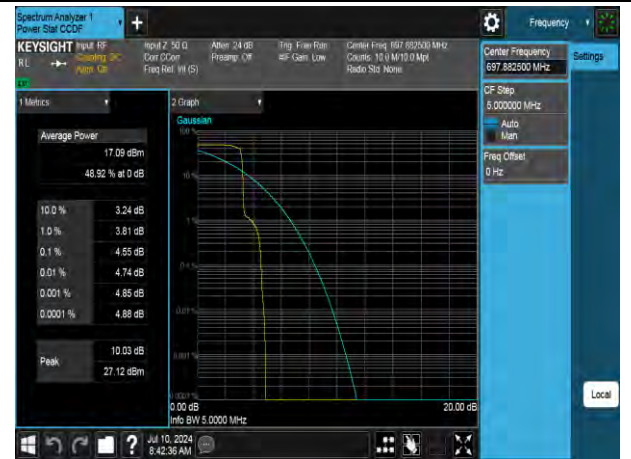
## BPSK Middle channel-1@0



## QPSK High channel-12@0



## BPSK High channel-1@max

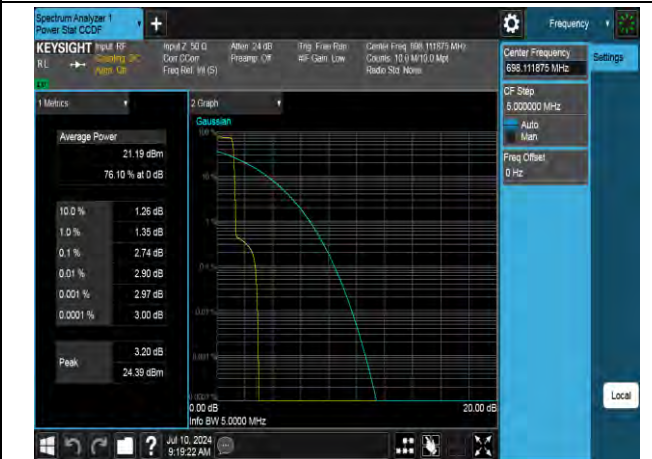


# LTE FDD Band 85, SCS:3.75KHz

QPSK Low channel-1@0



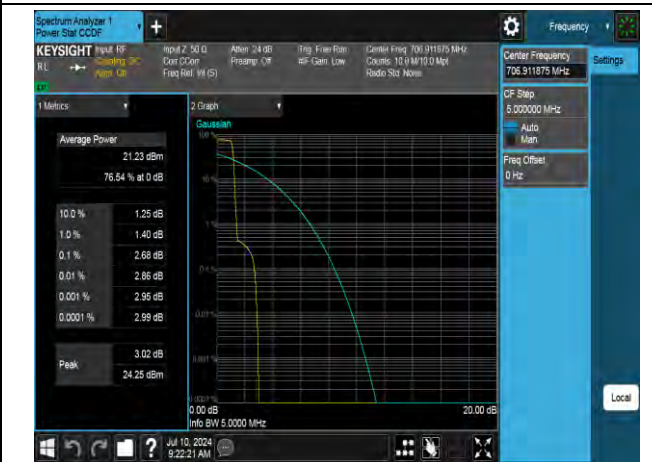
BPSK Low channel-1@0



QPSK Middle channel-1@0



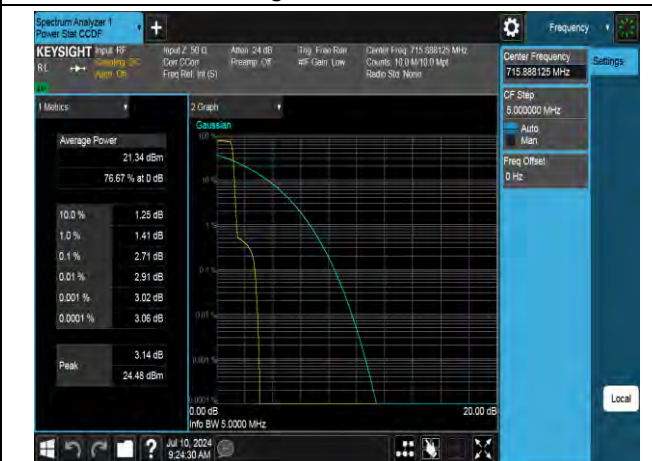
BPSK Middle channel-1@0



QPSK High channel-1@max



BPSK High channel-1@max

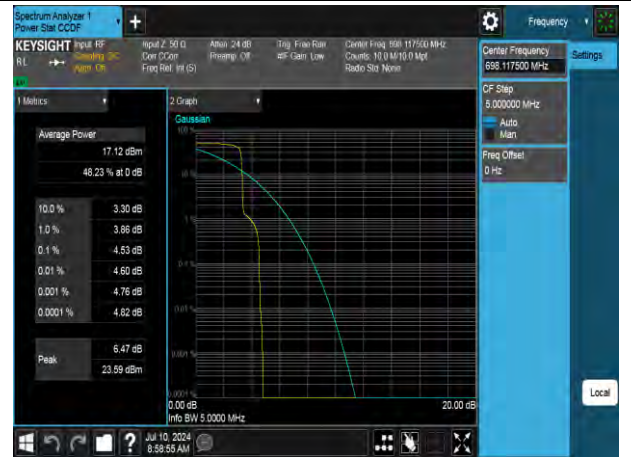


# LTE FDD Band 85, SCS:15KHz

## QPSK Low channel-12@0



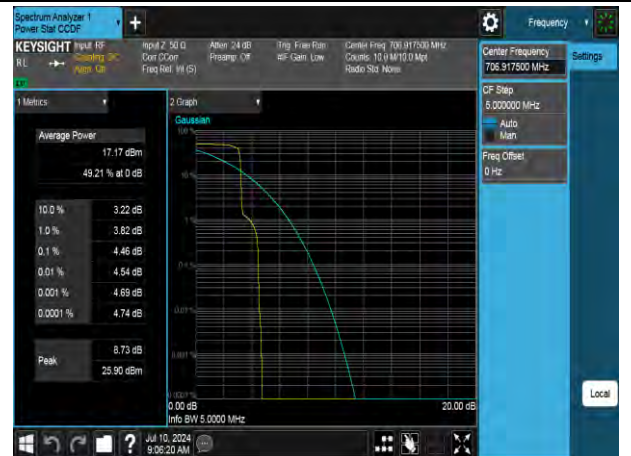
## BPSK Low channel-1@0



## QPSK Middle channel-12@0



## BPSK Middle channel-1@0



## QPSK High channel-12@0



## BPSK High channel-1@max

