# LTE Band 7

## Conducted Output Power(Average power)

| LTE Band 7 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 5 | 1 | 0 | QPSK | 21.04 | 21.14 | 21.12 |
| 5 | 1 | 12 | | 21.01 | 21.07 | 21.17 |
| 5 | 1 | 24 | | 21.00 | 21.04 | 21.20 |
| 5 | 12 | 0 | | 20.09 | 20.14 | 20.21 |
| 5 | 12 | 6 | | 20.06 | 20.14 | 20.20 |
| 5 | 12 | 11 | | 20.01 | 20.18 | 20.16 |
| 5 | 25 | 0 | | 19.94 | 20.13 | 20.14 |
| 5 | 1 | 0 | 16-QAM | 19.68 | 19.87 | 20.06 |
| 5 | 1 | 12 | | 19.72 | 19.83 | 19.79 |
| 5 | 1 | 24 | | 19.62 | 20.07 | 19.98 |
| 5 | 12 | 0 | | 19.20 | 19.24 | 19.29 |
| 5 | 12 | 6 | | 19.08 | 19.21 | 19.37 |
| 5 | 12 | 11 | | 19.13 | 19.23 | 19.27 |
| 5 | 25 | 0 | | 19.01 | 19.32 | 19.26 |
| 10 | 1 | 0 | QPSK | 21.05 | 21.03 | 21.05 |
| 10 | 1 | 24 | | 20.93 | 21.05 | 21.06 |
| 10 | 1 | 49 | | 21.14 | 21.11 | 21.21 |
| 10 | 25 | 0 | | 20.01 | 20.15 | 20.16 |
| 10 | 25 | 12 | | 19.91 | 20.15 | 20.17 |
| 10 | 25 | 24 | | 19.95 | 20.15 | 20.12 |
| 10 | 50 | 0 | | 19.92 | 20.01 | 20.10 |
| 10 | 1 | 0 | 16-QAM | 20.15 | 19.98 | 20.06 |
| 10 | 1 | 24 | | 20.16 | 20.05 | 20.30 |
| 10 | 1 | 49 | | 20.15 | 20.01 | 20.07 |
| 10 | 25 | 0 | | 18.91 | 19.15 | 19.07 |
| 10 | 25 | 12 | | 18.94 | 18.98 | 19.10 |
| 10 | 25 | 24 | | 18.88 | 19.07 | 19.14 |
| 10 | 50 | 0 | | 18.89 | 18.98 | 19.06 |

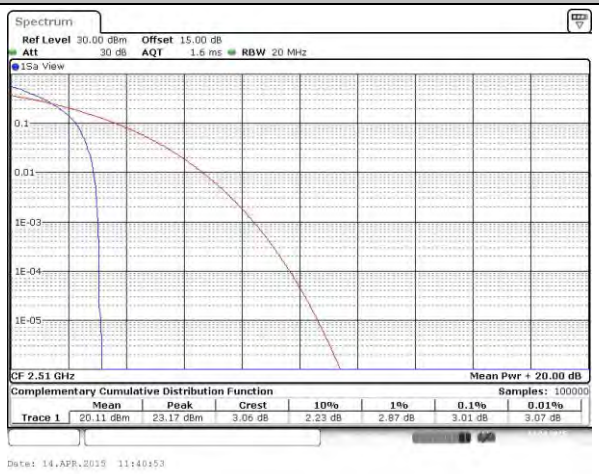
| LTE Band 7 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 15 | 1 | 0 | QPSK | 21.05 | 21.02 | 21.20 |
| 15 | 1 | 37 | | 21.11 | 21.14 | 21.18 |
| 15 | 1 | 74 | | 21.14 | 21.23 | 21.15 |
| 15 | 36 | 0 | | 20.02 | 20.12 | 20.09 |
| 15 | 36 | 18 | | 19.91 | 20.05 | 19.96 |
| 15 | 36 | 37 | | 19.96 | 20.12 | 20.15 |
| 15 | 75 | 0 | | 19.85 | 20.10 | 20.09 |
| 15 | 1 | 0 | 16-QAM | 20.00 | 19.99 | 20.40 |
| 15 | 1 | 37 | | 20.05 | 20.06 | 20.02 |
| 15 | 1 | 74 | | 20.02 | 20.19 | 20.47 |
| 15 | 36 | 0 | | 18.96 | 19.09 | 19.15 |
| 15 | 36 | 18 | | 19.01 | 19.14 | 19.19 |
| 15 | 36 | 37 | | 19.01 | 19.10 | 19.15 |
| 15 | 75 | 0 | | 19.02 | 19.09 | 19.13 |
| 20 | 1 | 0 | QPSK | 21.06 | 21.08 | 21.03 |
| 20 | 1 | 49 | | 21.10 | 21.14 | 21.12 |
| 20 | 1 | 99 | | 21.15 | 21.25 | 21.28 |
| 20 | 50 | 0 | | 20.04 | 20.16 | 20.21 |
| 20 | 50 | 24 | | 20.13 | 20.14 | 20.22 |
| 20 | 50 | 49 | | 20.14 | 20.17 | 20.24 |
| 20 | 100 | 0 | | 20.12 | 20.14 | 20.26 |
| 20 | 1 | 0 | 16-QAM | 20.13 | 20.07 | 20.08 |
| 20 | 1 | 49 | | 20.12 | 20.37 | 20.21 |
| 20 | 1 | 99 | | 20.02 | 20.24 | 20.44 |
| 20 | 50 | 0 | | 19.13 | 19.23 | 19.04 |
| 20 | 50 | 24 | | 19.13 | 19.18 | 19.17 |
| 20 | 50 | 49 | | 19.04 | 19.21 | 19.21 |
| 20 | 100 | 0 | | 19.11 | 19.19 | 19.04 |

# Peak-to-Average Ratio

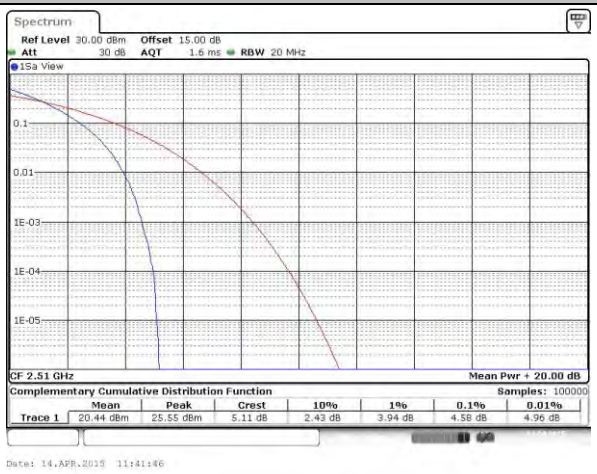
| Mode | LTE Band 7 / 20MHz | | | | |
|---|---|---|---|---|---|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | RB Size | Result |
| Lowest CH | 3.01 | 4.58 | 4.23 | 5.54 | PASS |
| Middle CH | 4.06 | 4.52 | 5.33 | 5.57 | |
| Highest CH | 3.65 | 4.55 | 4.99 | 5.68 | |

## LTE Band 7 / 20MHz / QPSK

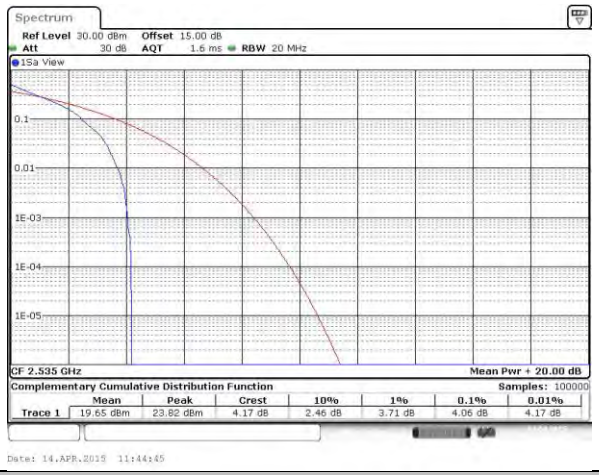
### Lowest Channel / 1RB



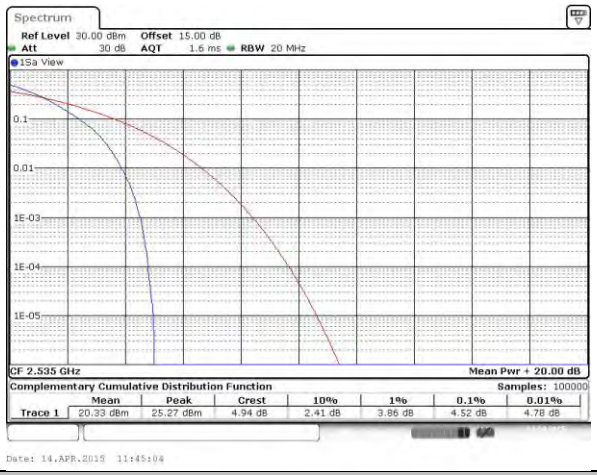

### Lowest Channel / Full RB



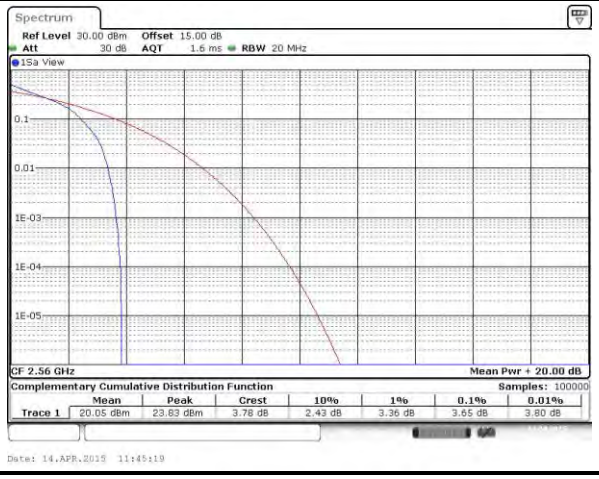

### Middle Channel / 1RB



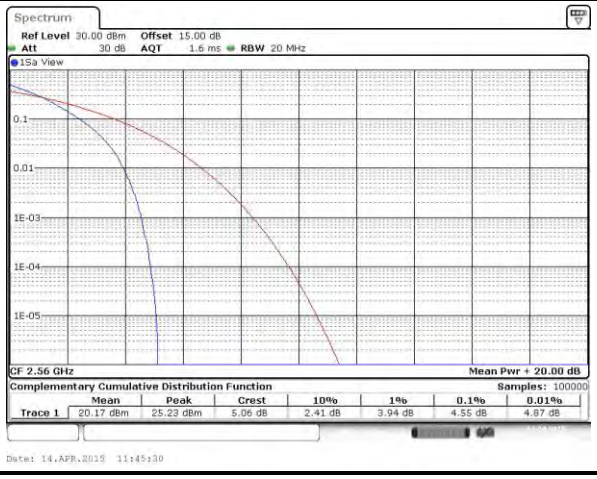

### Middle Channel / Full RB




### Highest Channel / 1RB

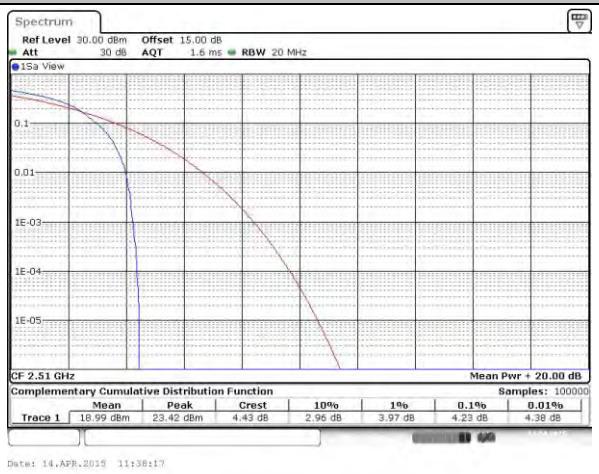



### Highest Channel / Full RB

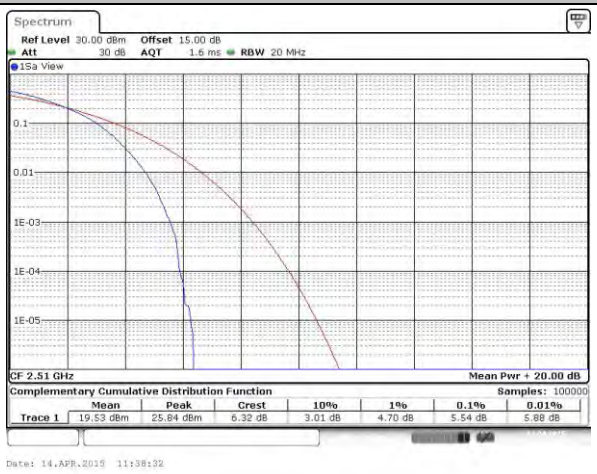


## LTE Band 7 / 20MHz / 16QAM

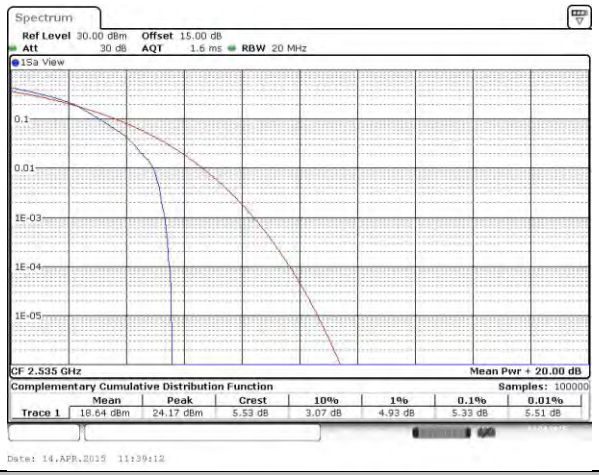
### Lowest Channel / 1RB



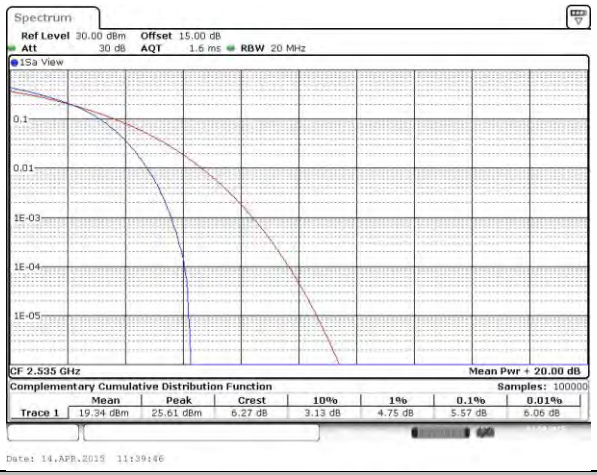

### Lowest Channel / Full RB



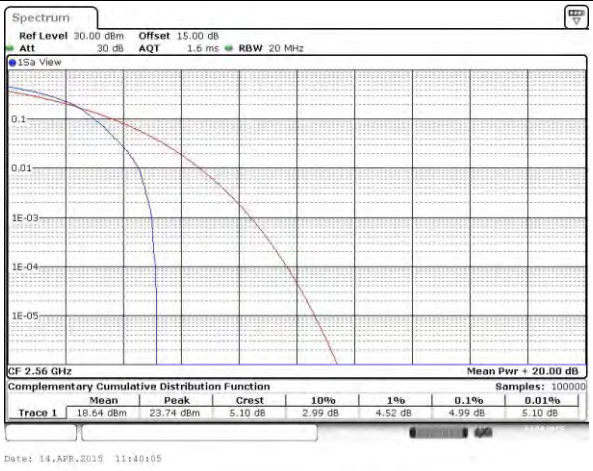

### Middle Channel / 1RB




### Middle Channel / Full RB




### Highest Channel / 1RB



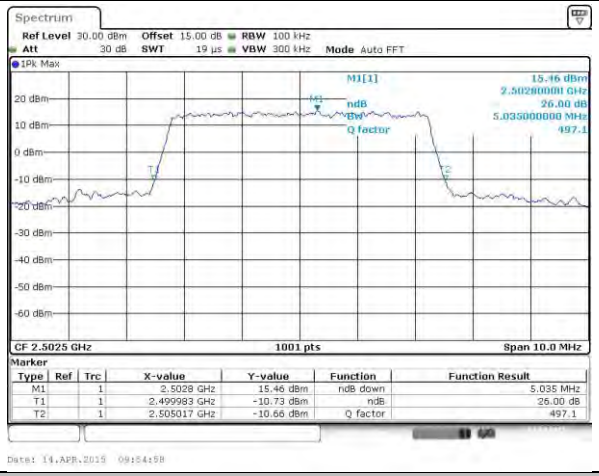

### Highest Channel / Full RB

# 26dB Bandwidth

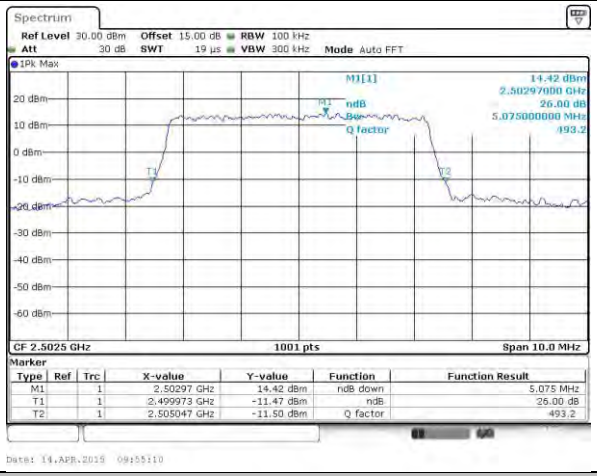
| Mode | LTE Band 7 : 26dB BW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 5.04 | 5.08 | 9.95 | 9.95 | 14.69 | 14.69 | 20.22 | 20.18 |
| Middle CH | - | - | - | - | 5.04 | 5.04 | 9.97 | 9.93 | 14.66 | 14.72 | 20.34 | 20.14 |
| Highest CH | - | - | - | - | 5.04 | 5.06 | 10.03 | 9.99 | 14.54 | 14.72 | 20.38 | 20.58 |

## LTE Band 7

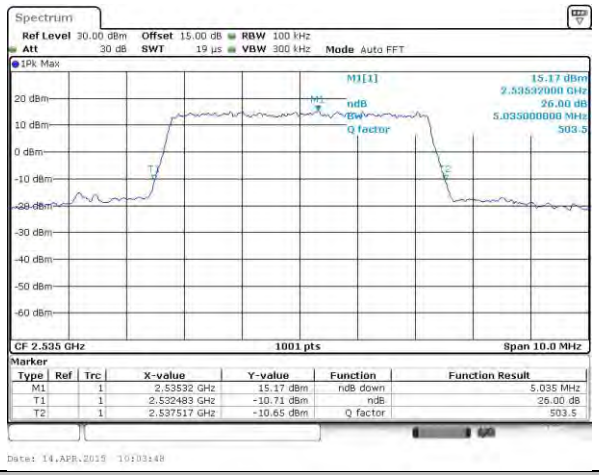
### Lowest Channel / 5MHz / QPSK



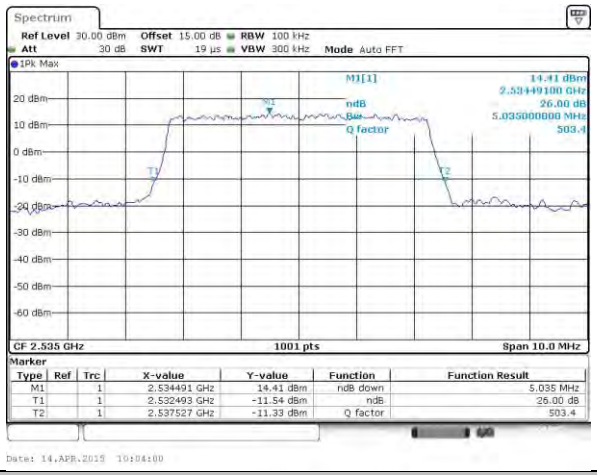

### Lowest Channel / 5MHz / 16QAM



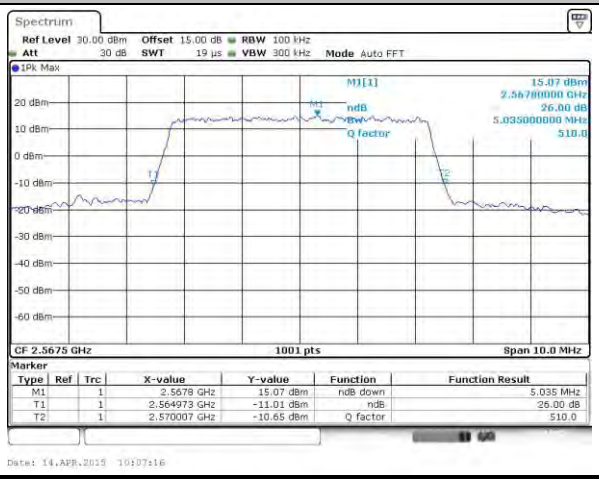

### Middle Channel / 5MHz / QPSK



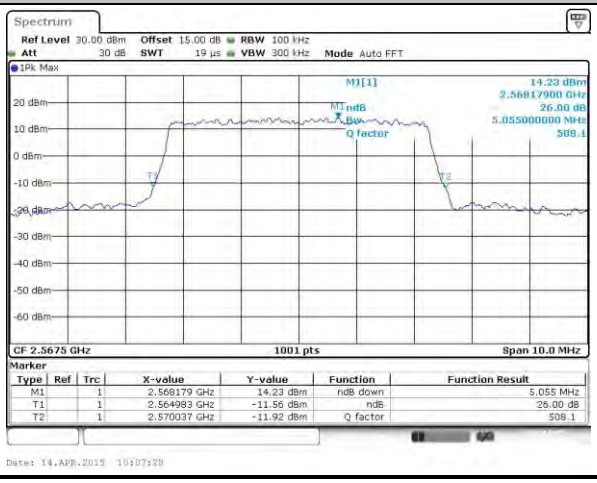

### Middle Channel / 5MHz / 16QAM




### Highest Channel / 5MHz / QPSK

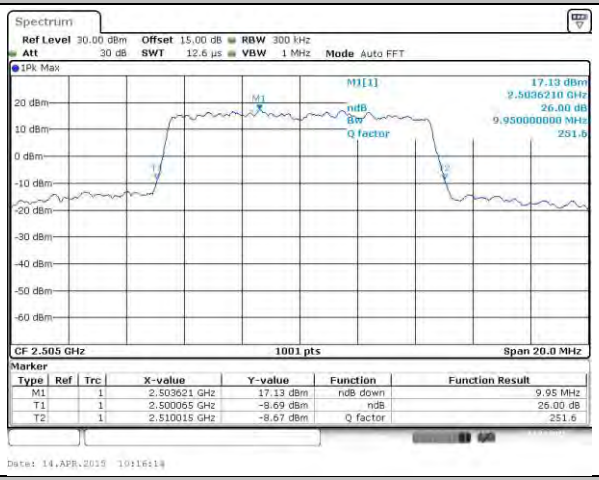



### Highest Channel / 5MHz / 16QAM

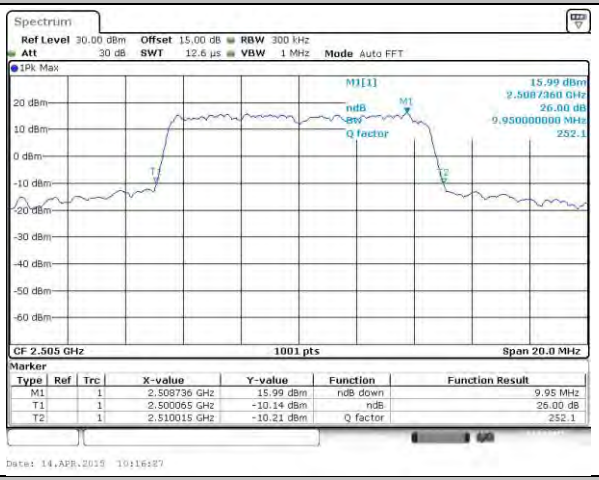


## LTE Band 7

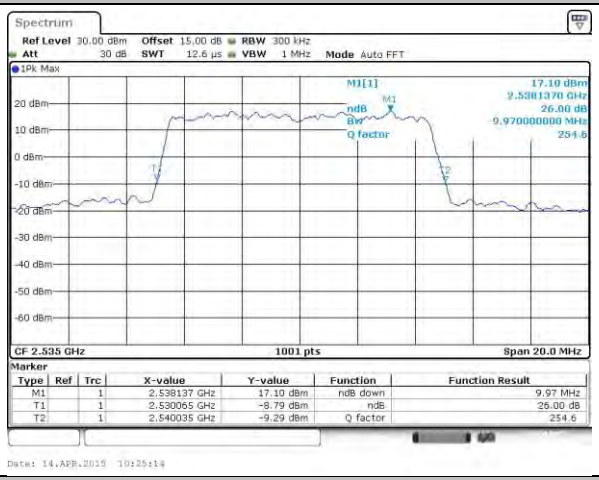
### Lowest Channel / 10MHz / QPSK



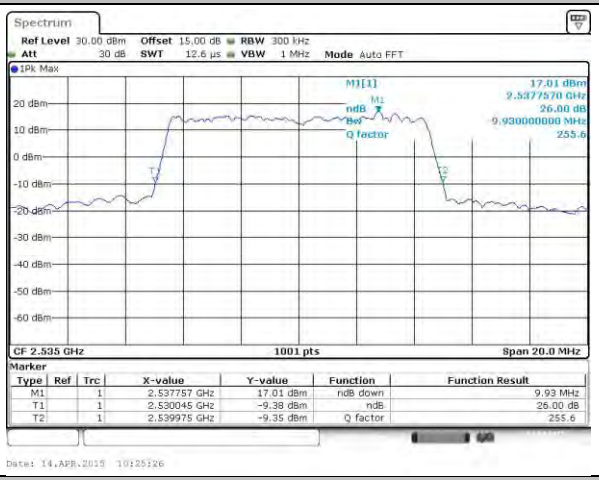

### Lowest Channel / 10MHz / 16QAM



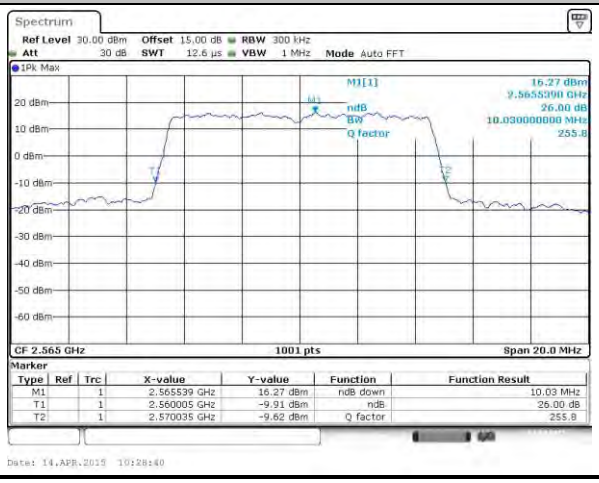

### Middle Channel / 10MHz / QPSK



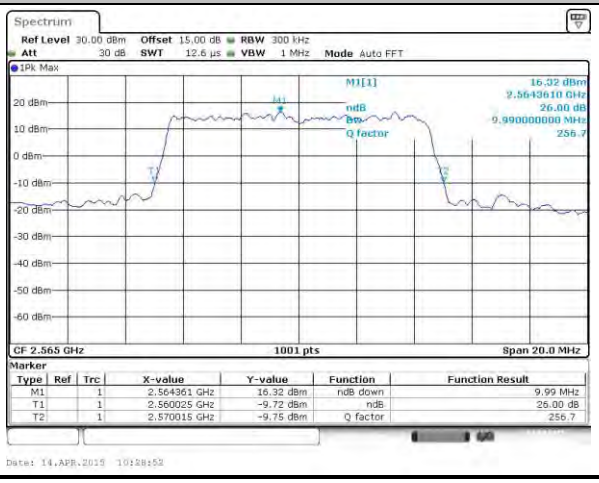

### Middle Channel / 10MHz / 16QAM




### Highest Channel / 10MHz / QPSK

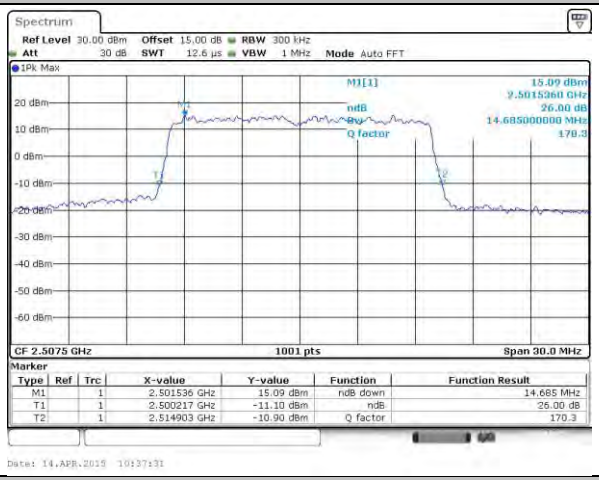



### Highest Channel / 10MHz / 16QAM

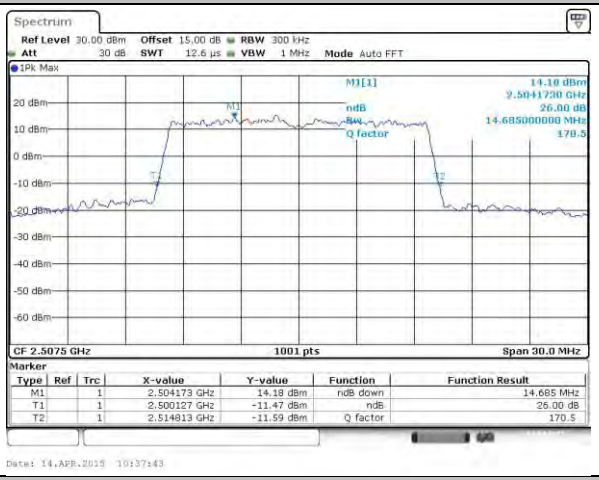


## LTE Band 7

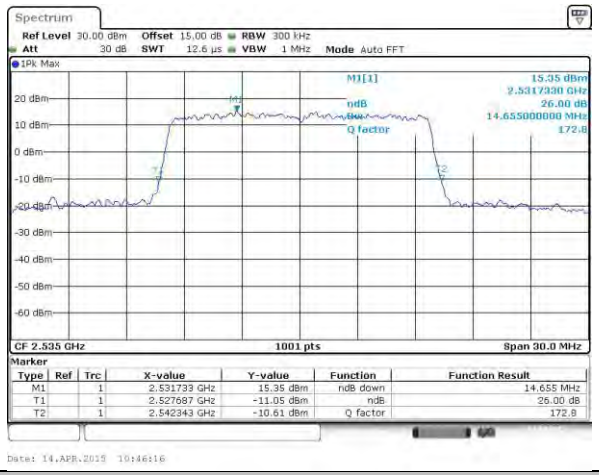
### Lowest Channel / 15MHz / QPSK



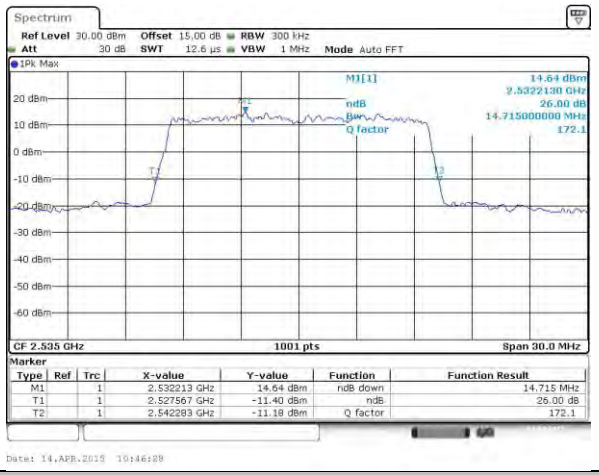

### Lowest Channel / 15MHz / 16QAM



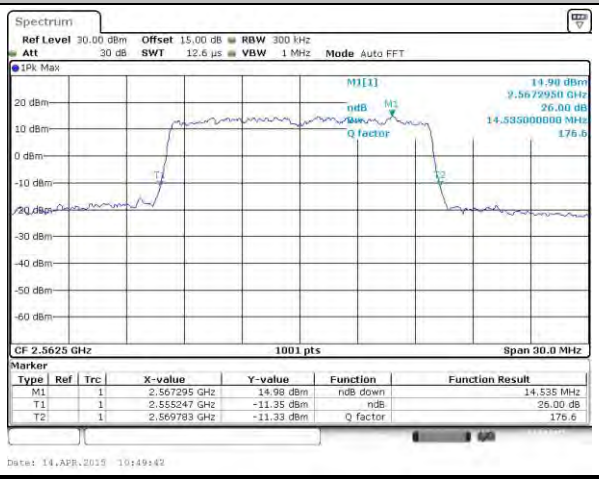

### Middle Channel / 15MHz / QPSK



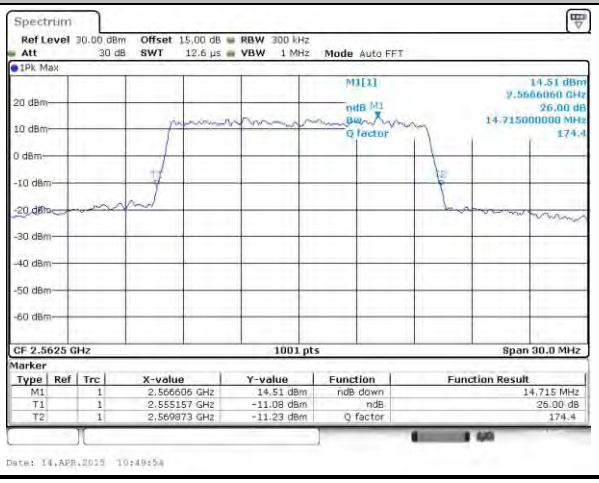

### Middle Channel / 15MHz / 16QAM




### Highest Channel / 15MHz / QPSK

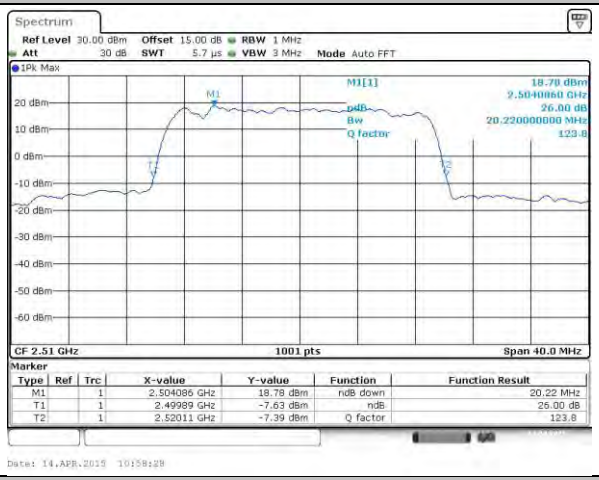



### Highest Channel / 15MHz / 16QAM

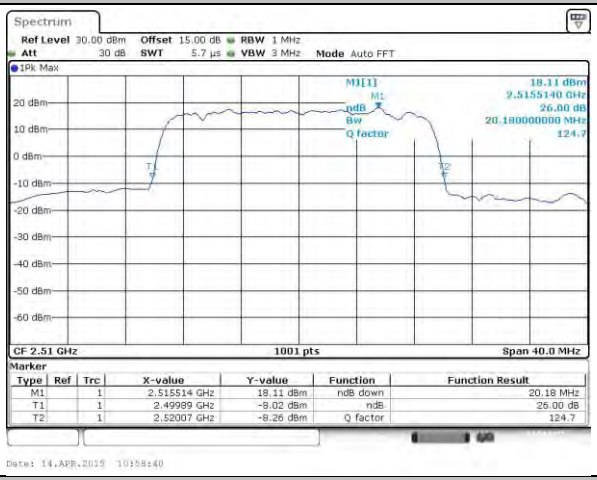


## LTE Band 7

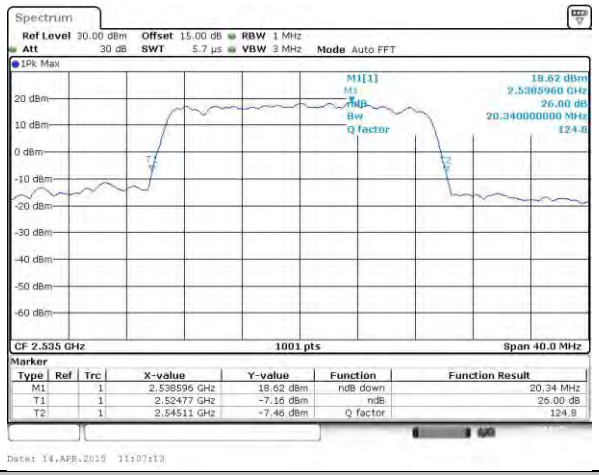
### Lowest Channel / 20MHz / QPSK



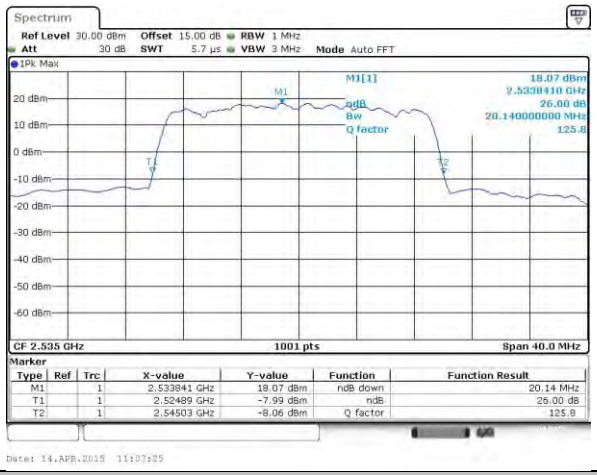

### Lowest Channel / 20MHz / 16QAM



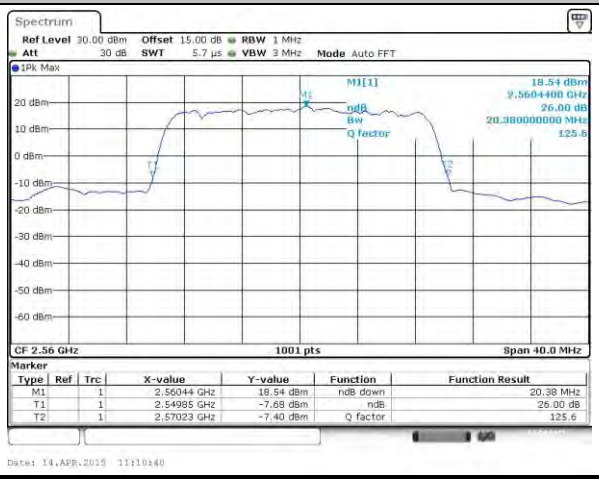

### Middle Channel / 20MHz / QPSK



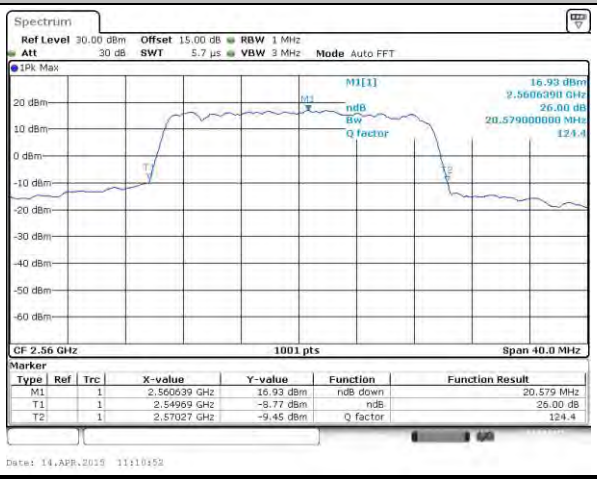

### Middle Channel / 20MHz / 16QAM




### Highest Channel / 20MHz / QPSK




### Highest Channel / 20MHz / 16QAM

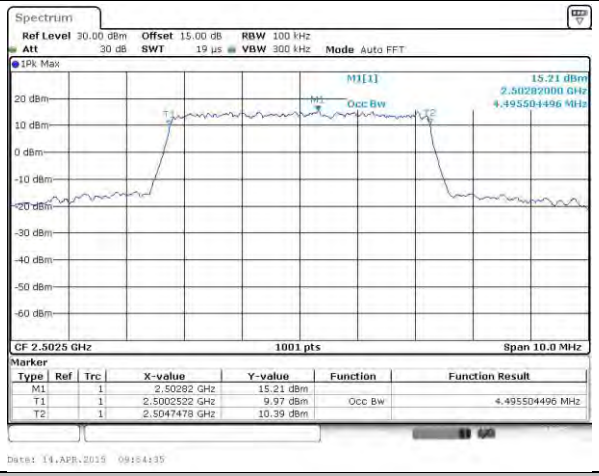


# Occupied Bandwidth

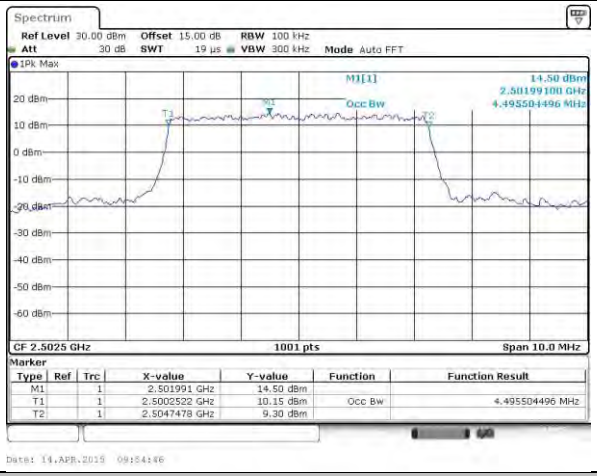
| Mode | LTE Band 7 : 99%OBW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.50 | 4.50 | 9.09 | 9.01 | 13.40 | 13.46 | 18.46 | 18.38 |
| Middle CH | - | - | - | - | 4.50 | 4.50 | 9.03 | 9.03 | 13.43 | 13.43 | 18.22 | 18.26 |
| Highest CH | - | - | - | - | 4.50 | 4.49 | 9.13 | 9.01 | 13.43 | 13.46 | 18.26 | 18.22 |

## LTE Band 7

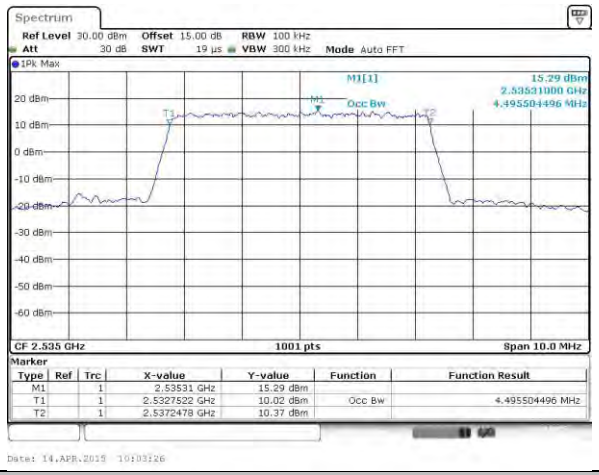
### Lowest Channel / 5MHz / QPSK



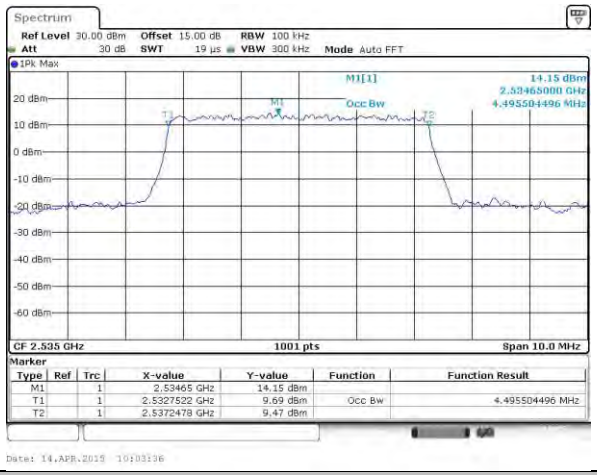

### Lowest Channel / 5MHz / 16QAM



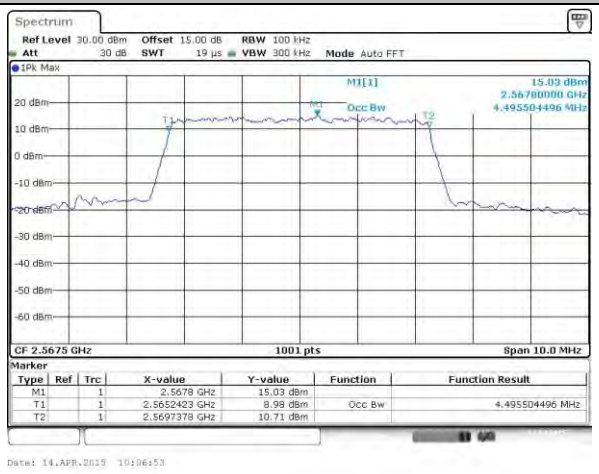

### Middle Channel / 5MHz / QPSK



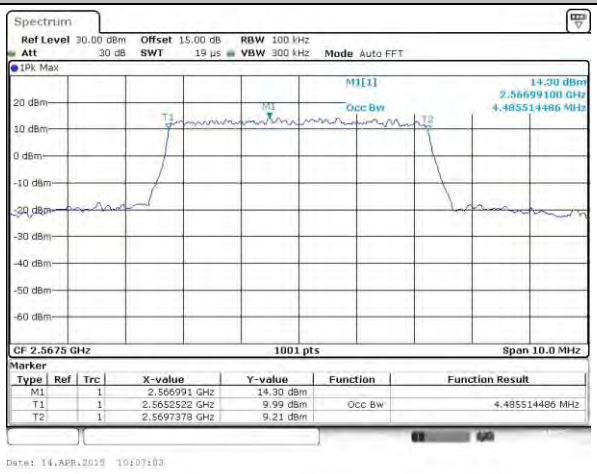

### Middle Channel / 5MHz / 16QAM




### Highest Channel / 5MHz / QPSK

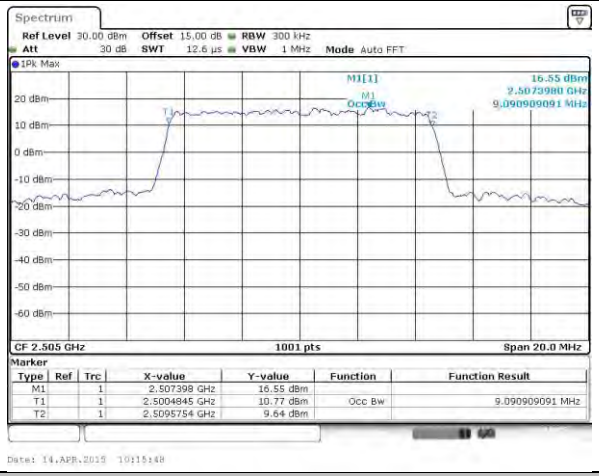



### Highest Channel / 5MHz / 16QAM

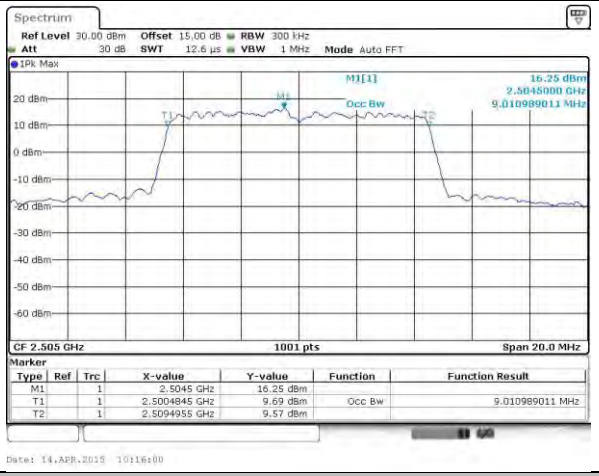


## LTE Band 7

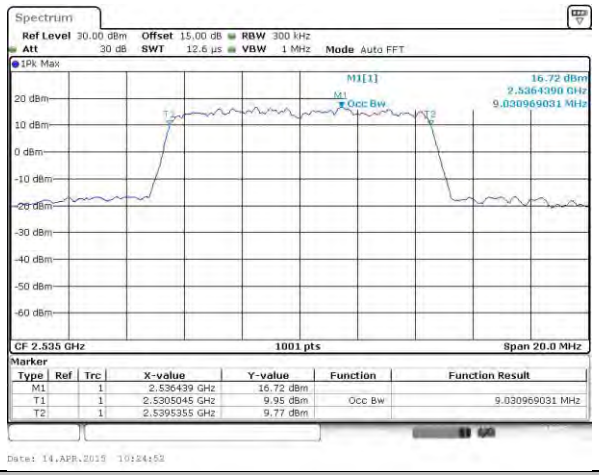
### Lowest Channel / 10MHz / QPSK



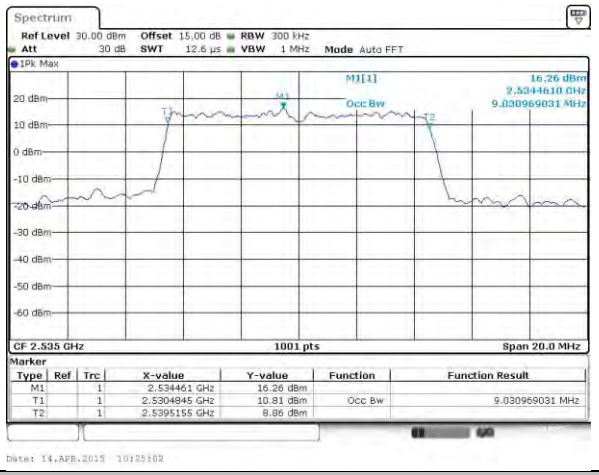

### Lowest Channel / 10MHz / 16QAM



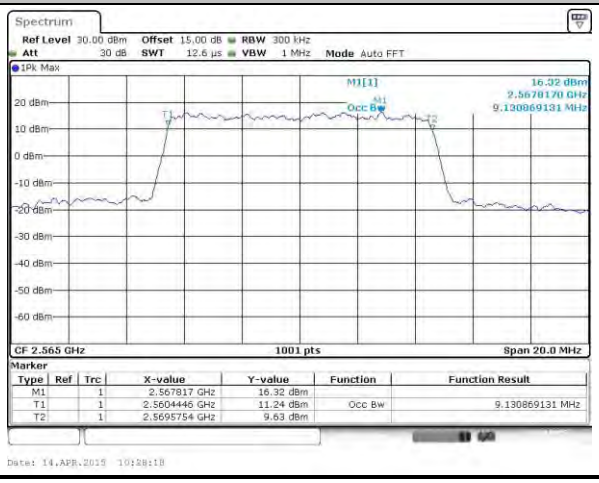

### Middle Channel / 10MHz / QPSK



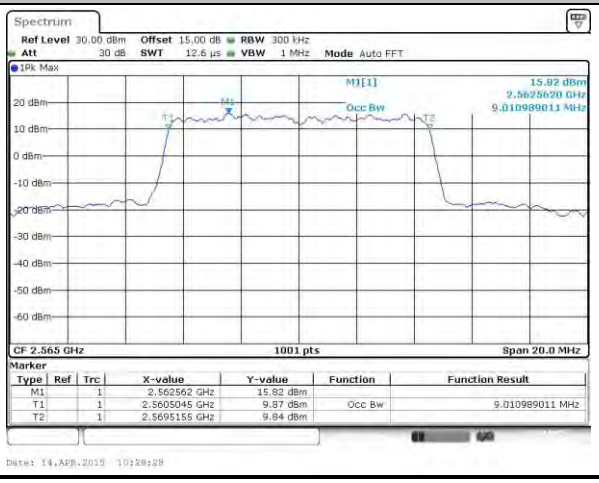

### Middle Channel / 10MHz / 16QAM




### Highest Channel / 10MHz / QPSK

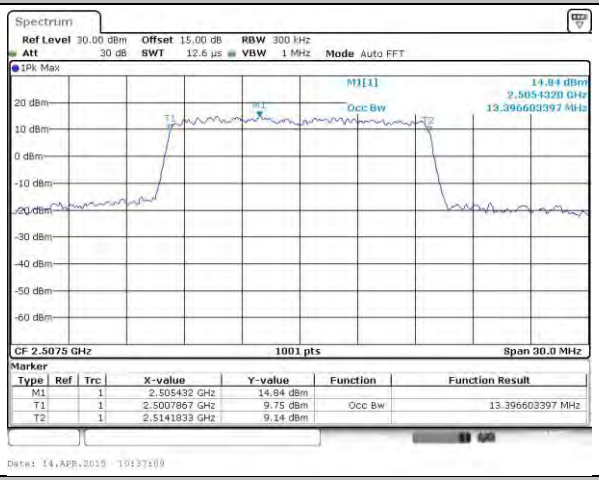



### Highest Channel / 10MHz / 16QAM

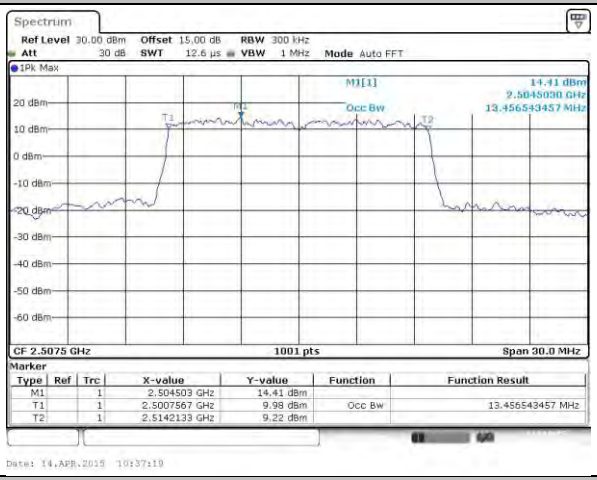


## LTE Band 7

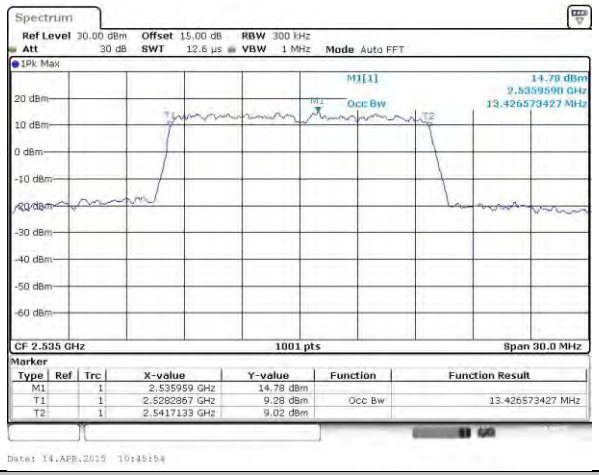
### Lowest Channel / 15MHz / QPSK



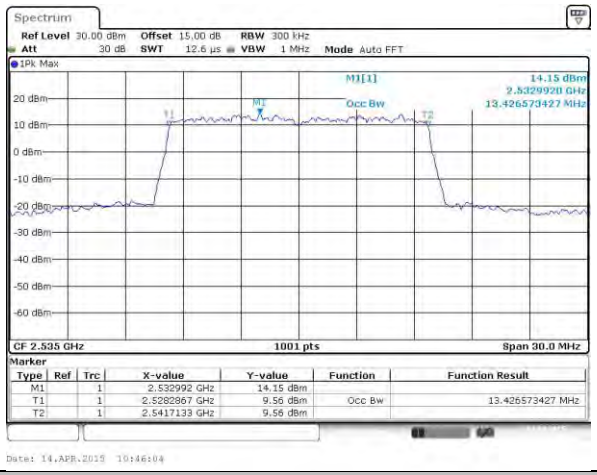

### Lowest Channel / 15MHz / 16QAM



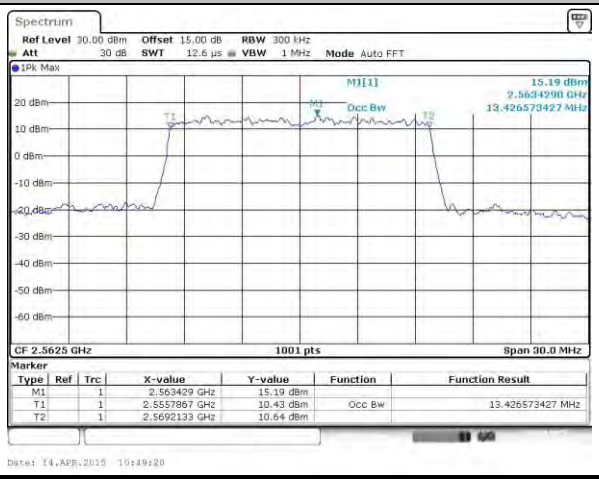

### Middle Channel / 15MHz / QPSK



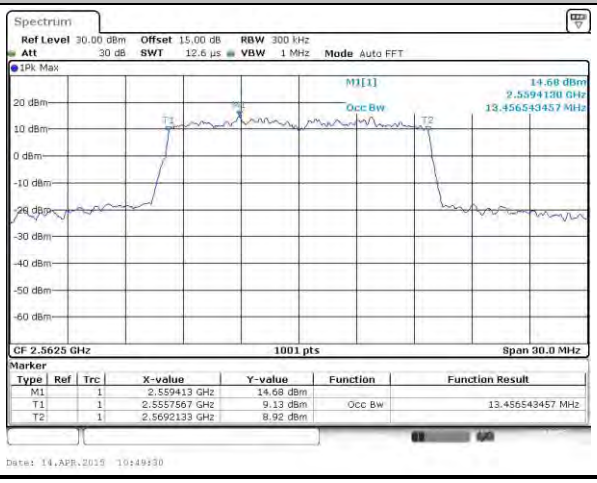

### Middle Channel / 15MHz / 16QAM




### Highest Channel / 15MHz / QPSK

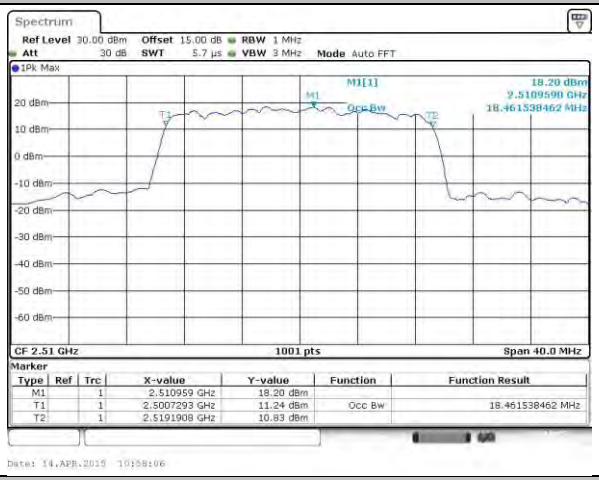



### Highest Channel / 15MHz / 16QAM

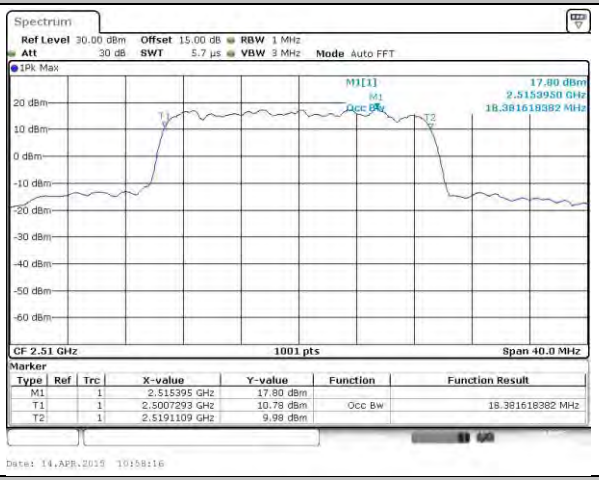


## LTE Band 7

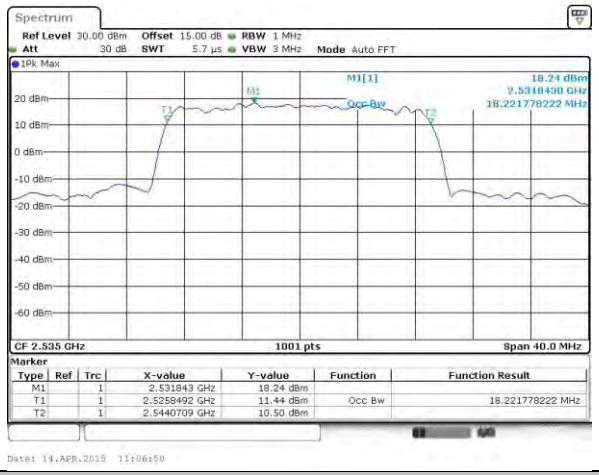
### Lowest Channel / 20MHz / QPSK



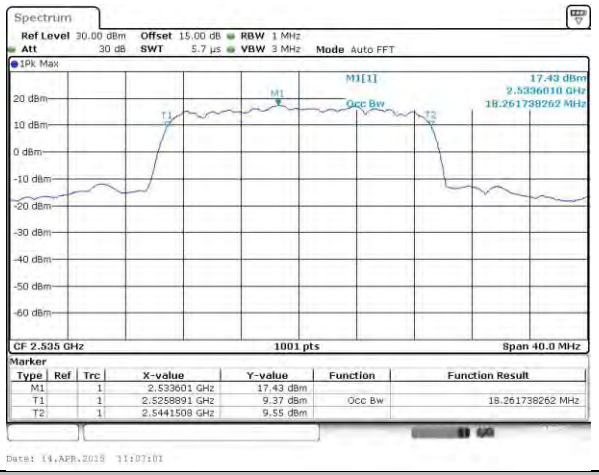

### Lowest Channel / 20MHz / 16QAM



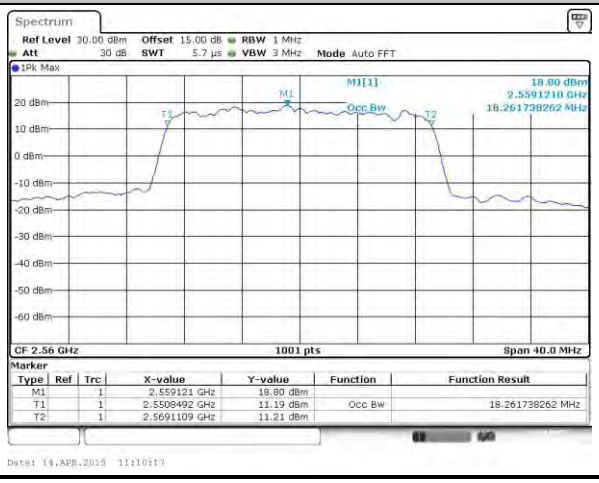

### Middle Channel / 20MHz / QPSK



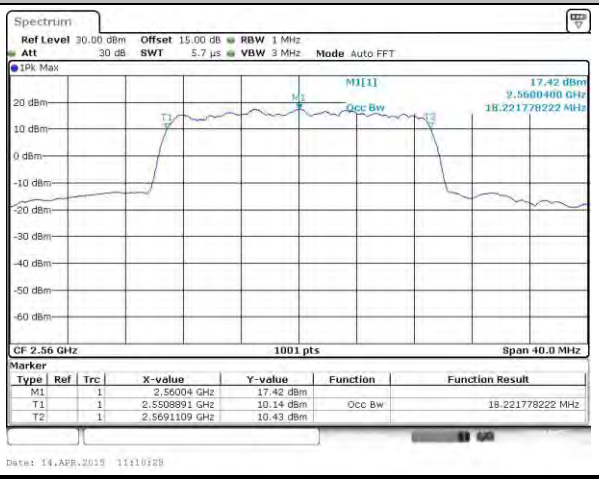

### Middle Channel / 20MHz / 16QAM




### Highest Channel / 20MHz / QPSK



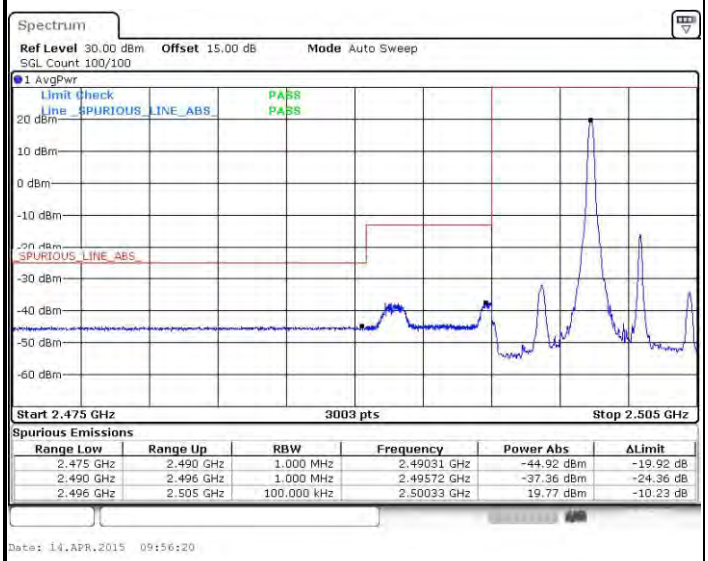

### Highest Channel / 20MHz / 16QAM



# Conducted Band Edge

## LTE Band 7 / 5MHz / QPSK

### Lowest Band Edge / 1 RB

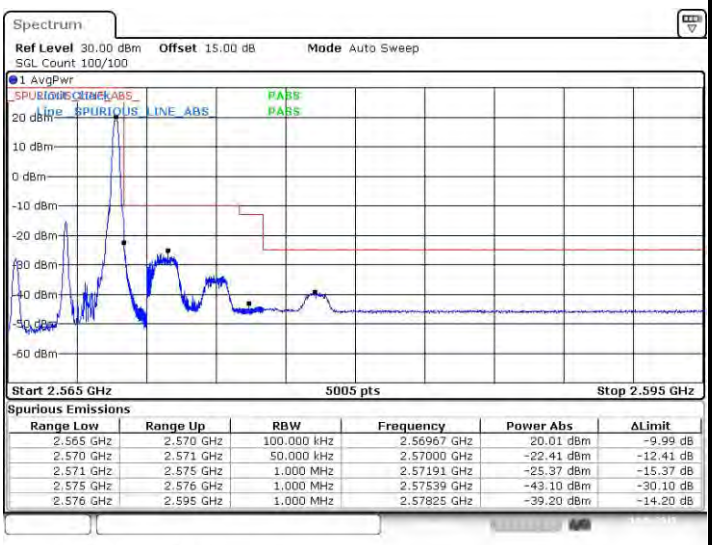



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49031 GHz | -44.92 dBm | -19.92 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49572 GHz | -37.36 dBm | -24.36 dB |
| 2.496 GHz | 2.505 GHz | 100.000 kHz | 2.50033 GHz | 19.77 dBm | -10.23 dB |

Date: 14.APR.2015 09:56:20

### Highest Band Edge / 1 RB

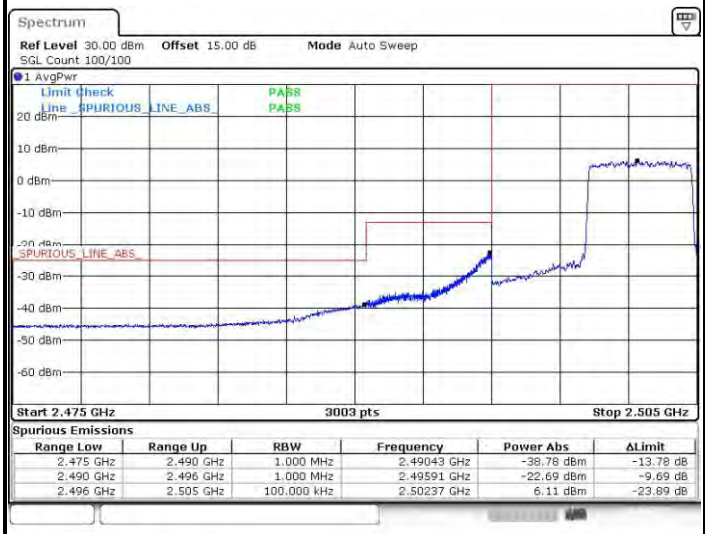



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.565 GHz | 2.570 GHz | 100.000 kHz | 2.56967 GHz | 20.01 dBm | -9.99 dB |
| 2.570 GHz | 2.571 GHz | 50.000 kHz | 2.57000 GHz | -22.41 dBm | -12.41 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57191 GHz | -25.37 dBm | -15.37 dB |
| 2.575 GHz | 2.576 GHz | 1.000 MHz | 2.57539 GHz | -43.10 dBm | -30.10 dB |
| 2.576 GHz | 2.595 GHz | 1.000 MHz | 2.57825 GHz | -39.20 dBm | -14.20 dB |

Date: 14.APR.2015 10:08:38

### Lowest Band Edge / Full RB

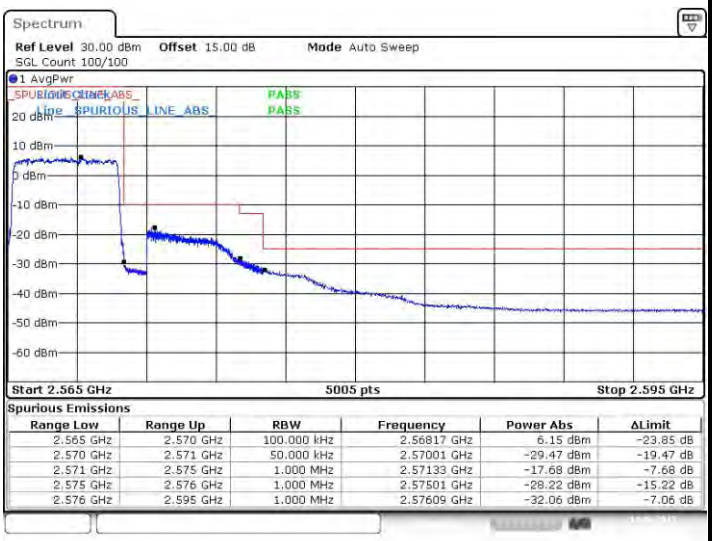



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49043 GHz | -38.78 dBm | -13.78 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49591 GHz | -22.69 dBm | -9.69 dB |
| 2.496 GHz | 2.505 GHz | 100.000 kHz | 2.50237 GHz | 6.11 dBm | -23.89 dB |

Date: 14.APR.2015 09:59:01

### Highest Band Edge / Full RB



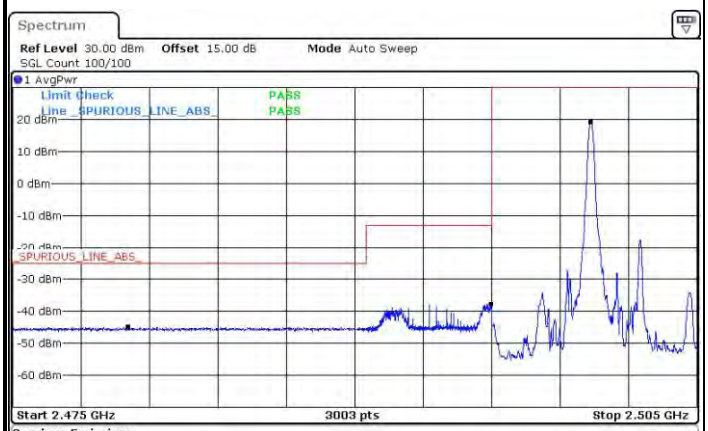

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.565 GHz | 2.570 GHz | 100.000 kHz | 2.56817 GHz | 6.15 dBm | -23.85 dB |
| 2.570 GHz | 2.571 GHz | 50.000 kHz | 2.57001 GHz | -29.47 dBm | -19.47 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57133 GHz | -17.68 dBm | -7.68 dB |
| 2.575 GHz | 2.576 GHz | 1.000 MHz | 2.57501 GHz | -28.22 dBm | -15.22 dB |
| 2.576 GHz | 2.595 GHz | 1.000 MHz | 2.57609 GHz | -32.06 dBm | -7.06 dB |

Date: 14.APR.2015 10:11:21

## LTE Band 7 / 5MHz / 16QAM

### Lowest Band Edge / 1 RB

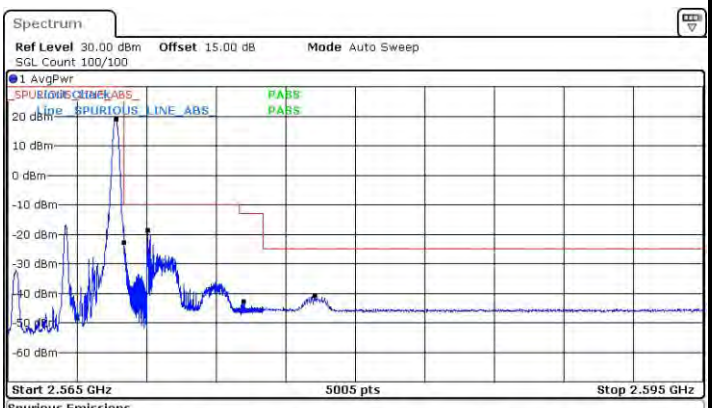



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.48006 GHz | -44.90 dBm | -19.90 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49595 GHz | -37.75 dBm | -24.75 dB |
| 2.496 GHz | 2.505 GHz | 100.000 kHz | 2.50032 GHz | 19.04 dBm | -10.96 dB |

Date: 14.APR.2015 09:57:41

### Highest Band Edge / 1 RB

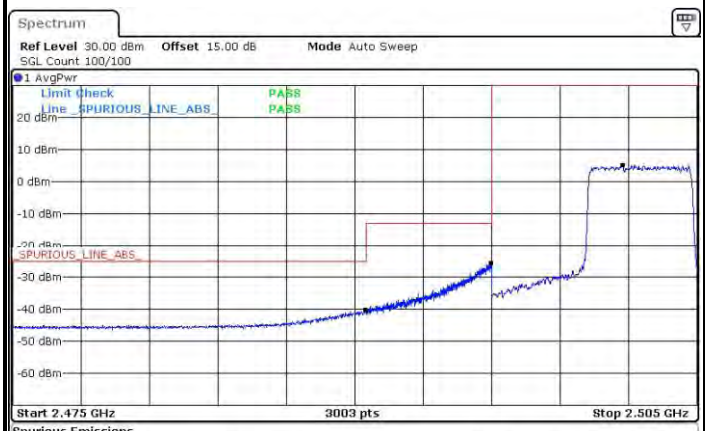



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.565 GHz | 2.570 GHz | 100.000 kHz | 2.56966 GHz | 19.03 dBm | -10.97 dB |
| 2.570 GHz | 2.571 GHz | 50.000 kHz | 2.57001 GHz | -22.73 dBm | -12.73 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57105 GHz | -18.70 dBm | -8.70 dB |
| 2.575 GHz | 2.576 GHz | 1.000 MHz | 2.57517 GHz | -42.81 dBm | -29.81 dB |
| 2.576 GHz | 2.595 GHz | 1.000 MHz | 2.57825 GHz | -40.84 dBm | -15.84 dB |

Date: 14.APR.2015 10:10:00

### Lowest Band Edge / Full RB

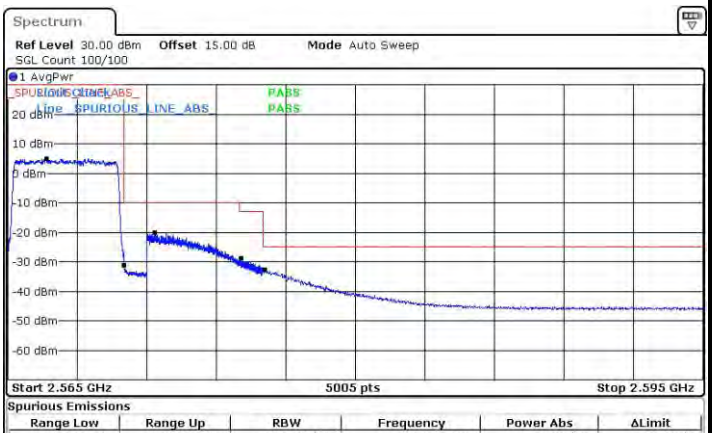



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49045 GHz | -40.18 dBm | -15.18 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49596 GHz | -25.63 dBm | -12.63 dB |
| 2.496 GHz | 2.505 GHz | 100.000 kHz | 2.50172 GHz | 5.00 dBm | -25.00 dB |

Date: 14.APR.2015 10:00:22

### Highest Band Edge / Full RB



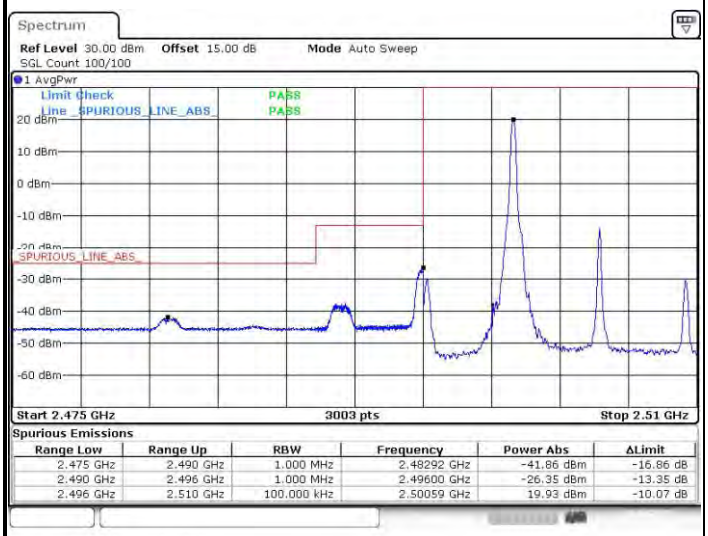

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.565 GHz | 2.570 GHz | 100.000 kHz | 2.56666 GHz | 4.98 dBm | -25.02 dB |
| 2.570 GHz | 2.571 GHz | 50.000 kHz | 2.57000 GHz | -31.14 dBm | -21.14 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57133 GHz | -20.22 dBm | -10.22 dB |
| 2.575 GHz | 2.576 GHz | 1.000 MHz | 2.57507 GHz | -28.66 dBm | -15.66 dB |
| 2.576 GHz | 2.595 GHz | 1.000 MHz | 2.57609 GHz | -32.72 dBm | -7.72 dB |

Date: 14.APR.2015 10:12:43

## LTE Band 7 / 10MHz / QPSK

### Lowest Band Edge / 1 RB

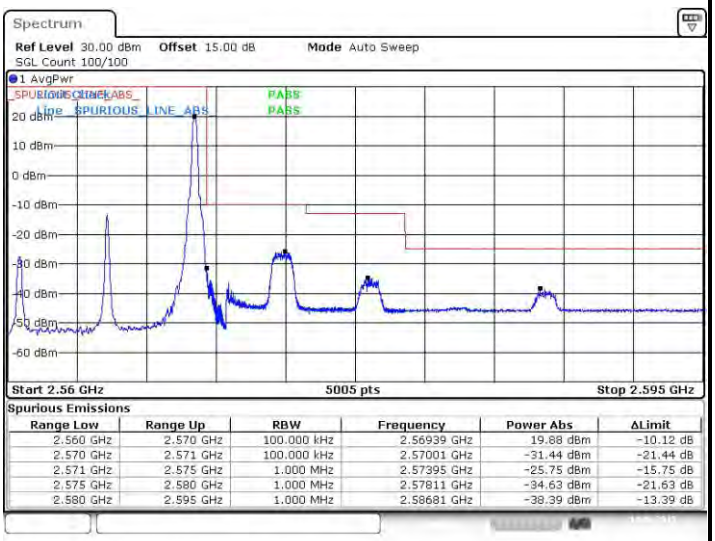



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.48292 GHz | -41.86 dBm | -16.86 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49600 GHz | -26.35 dBm | -13.35 dB |
| 2.496 GHz | 2.510 GHz | 100.000 kHz | 2.50059 GHz | 19.93 dBm | -10.07 dB |

Date: 14.APR.2015 10:17:40

### Highest Band Edge / 1 RB

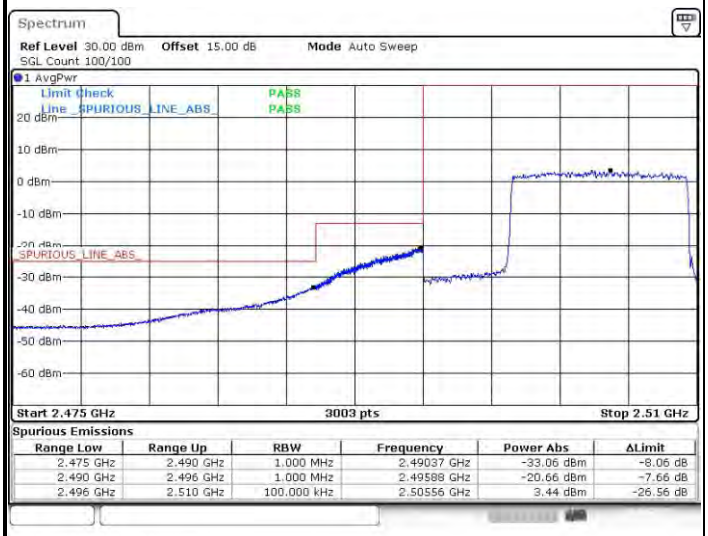



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.560 GHz | 2.570 GHz | 100.000 kHz | 2.56939 GHz | 19.88 dBm | -10.12 dB |
| 2.570 GHz | 2.571 GHz | 100.000 kHz | 2.57001 GHz | -31.44 dBm | -21.44 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57395 GHz | -25.75 dBm | -15.75 dB |
| 2.575 GHz | 2.580 GHz | 1.000 MHz | 2.57811 GHz | -34.63 dBm | -21.63 dB |
| 2.580 GHz | 2.595 GHz | 1.000 MHz | 2.58681 GHz | -38.39 dBm | -13.39 dB |

Date: 14.APR.2015 10:30:03

### Lowest Band Edge / Full RB

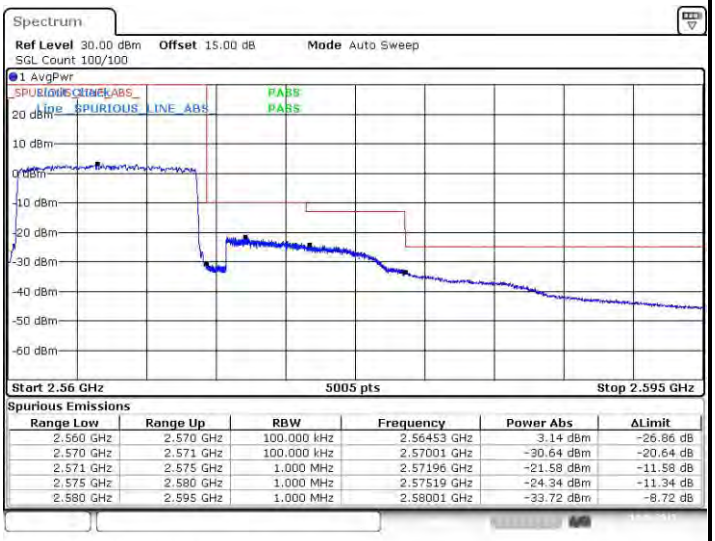



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49037 GHz | -33.06 dBm | -8.06 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49588 GHz | -20.66 dBm | -7.66 dB |
| 2.496 GHz | 2.510 GHz | 100.000 kHz | 2.50556 GHz | 3.44 dBm | -26.56 dB |

Date: 14.APR.2015 10:20:28

### Highest Band Edge / Full RB



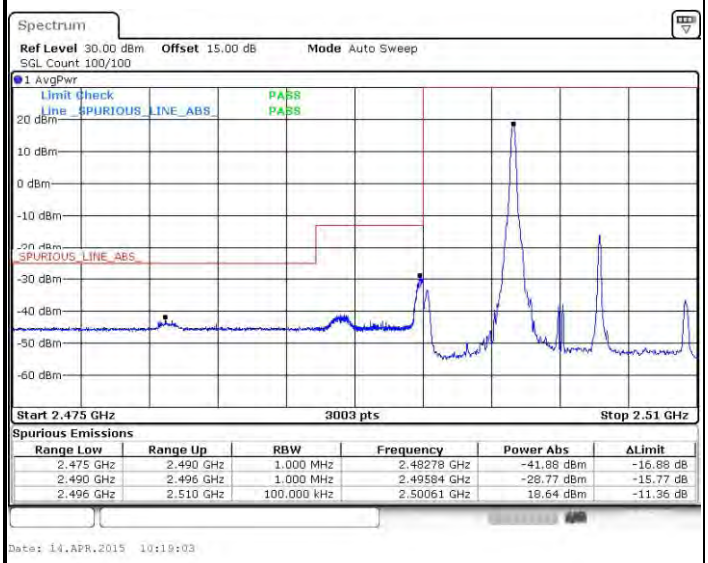

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.560 GHz | 2.570 GHz | 100.000 kHz | 2.56453 GHz | 3.14 dBm | -26.86 dB |
| 2.570 GHz | 2.571 GHz | 100.000 kHz | 2.57001 GHz | -30.64 dBm | -20.64 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57196 GHz | -21.58 dBm | -11.58 dB |
| 2.575 GHz | 2.580 GHz | 1.000 MHz | 2.57519 GHz | -24.34 dBm | -11.34 dB |
| 2.580 GHz | 2.595 GHz | 1.000 MHz | 2.58001 GHz | -33.72 dBm | -8.72 dB |

Date: 14.APR.2015 10:32:46

## LTE Band 7 / 10MHz / 16QAM

### Lowest Band Edge / 1 RB

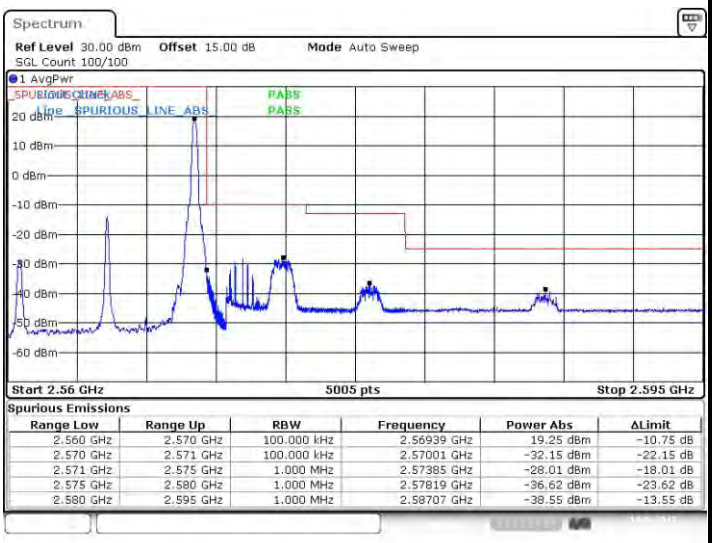



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.48278 GHz | -41.88 dBm | -16.88 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49584 GHz | -28.77 dBm | -15.77 dB |
| 2.496 GHz | 2.510 GHz | 100.000 kHz | 2.50061 GHz | 18.64 dBm | -11.36 dB |

Date: 14.APR.2015 10:19:03

### Highest Band Edge / 1 RB

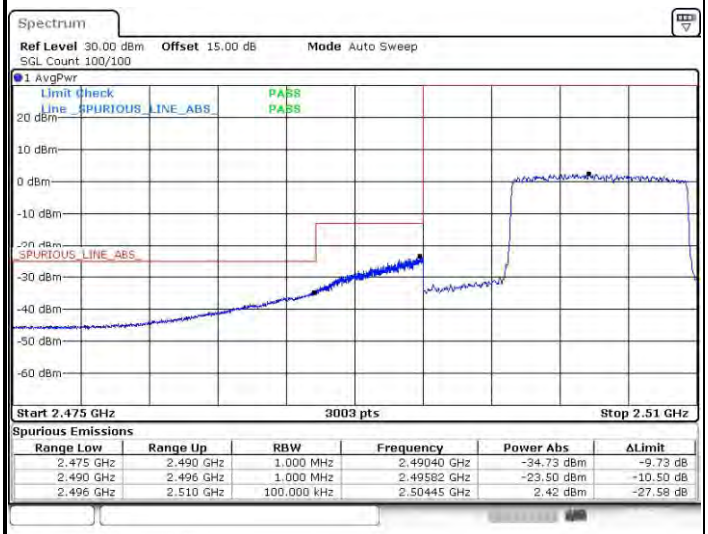



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.560 GHz | 2.570 GHz | 100.000 kHz | 2.56939 GHz | 19.25 dBm | -10.75 dB |
| 2.570 GHz | 2.571 GHz | 100.000 kHz | 2.57001 GHz | -32.15 dBm | -22.15 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57385 GHz | -28.01 dBm | -18.01 dB |
| 2.575 GHz | 2.580 GHz | 1.000 MHz | 2.57819 GHz | -36.62 dBm | -23.62 dB |
| 2.580 GHz | 2.595 GHz | 1.000 MHz | 2.58707 GHz | -38.55 dBm | -13.55 dB |

Date: 14.APR.2015 10:31:24

### Lowest Band Edge / Full RB

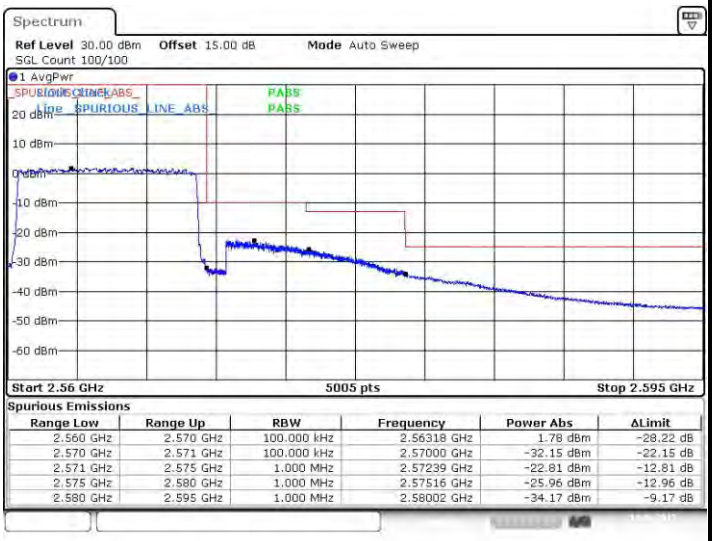



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49040 GHz | -34.73 dBm | -9.73 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49582 GHz | -23.50 dBm | -10.50 dB |
| 2.496 GHz | 2.510 GHz | 100.000 kHz | 2.50445 GHz | 2.42 dBm | -27.58 dB |

Date: 14.APR.2015 10:21:48

### Highest Band Edge / Full RB



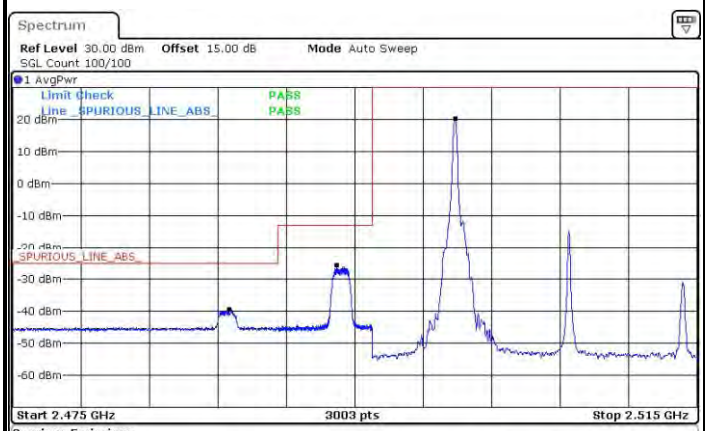

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.560 GHz | 2.570 GHz | 100.000 kHz | 2.56318 GHz | 1.78 dBm | -28.22 dB |
| 2.570 GHz | 2.571 GHz | 100.000 kHz | 2.57000 GHz | -32.15 dBm | -22.15 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57239 GHz | -22.81 dBm | -12.81 dB |
| 2.575 GHz | 2.580 GHz | 1.000 MHz | 2.57516 GHz | -25.96 dBm | -12.96 dB |
| 2.580 GHz | 2.595 GHz | 1.000 MHz | 2.58002 GHz | -34.17 dBm | -9.17 dB |

Date: 14.APR.2015 10:34:07

## LTE Band 7 / 15MHz / QPSK

### Lowest Band Edge / 1 RB

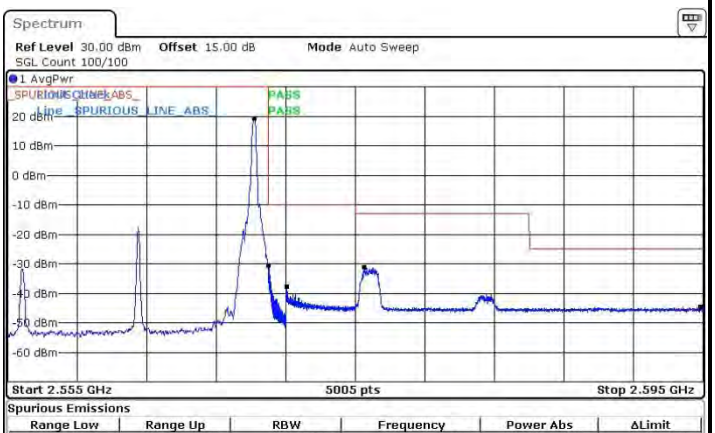



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.48767 GHz | -39.33 dBm | -14.33 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49393 GHz | -25.66 dBm | -12.66 dB |
| 2.496 GHz | 2.515 GHz | 100.000 kHz | 2.50087 GHz | 20.20 dBm | -9.80 dB |

Date: 14.APR.2015 10:38:52

### Highest Band Edge / 1 RB

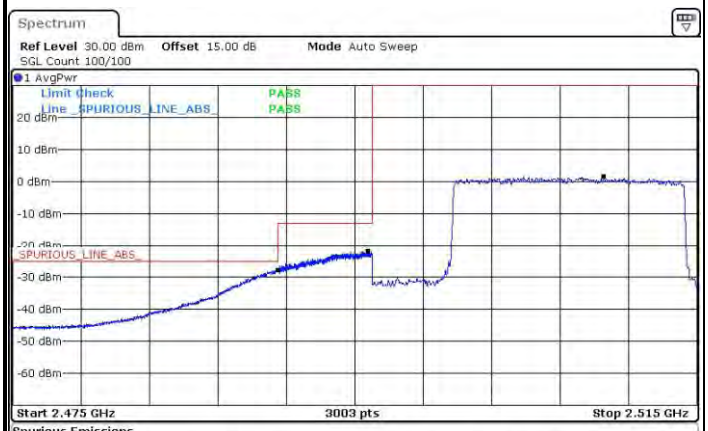



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.555 GHz | 2.570 GHz | 100.000 kHz | 2.56915 GHz | 19.37 dBm | -10.63 dB |
| 2.570 GHz | 2.571 GHz | 150.000 kHz | 2.57000 GHz | -30.53 dBm | -20.53 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57105 GHz | -37.88 dBm | -27.88 dB |
| 2.575 GHz | 2.585 GHz | 1.000 MHz | 2.57549 GHz | -31.31 dBm | -18.31 dB |
| 2.585 GHz | 2.595 GHz | 1.000 MHz | 2.59485 GHz | -44.71 dBm | -19.71 dB |

Date: 15.MAY.2015 12:38:55

### Lowest Band Edge / Full RB

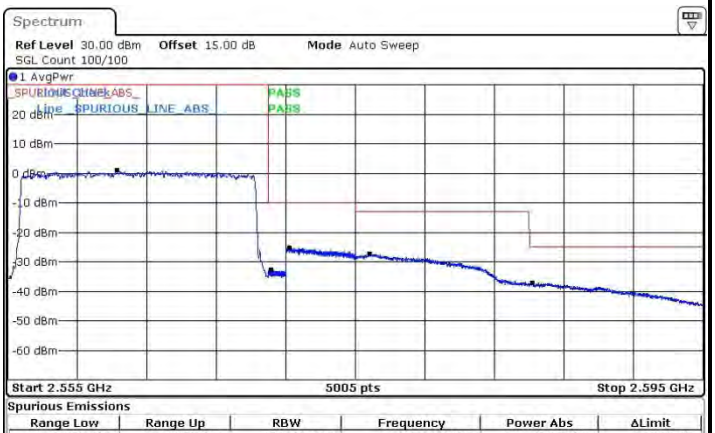



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49048 GHz | -27.73 dBm | -2.73 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49574 GHz | -21.85 dBm | -8.85 dB |
| 2.496 GHz | 2.515 GHz | 100.000 kHz | 2.50954 GHz | 1.65 dBm | -28.35 dB |

Date: 14.APR.2015 10:41:31

### Highest Band Edge / Full RB



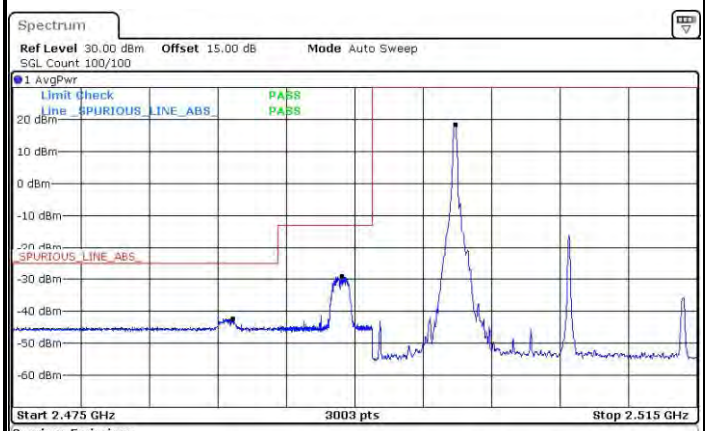

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.555 GHz | 2.570 GHz | 100.000 kHz | 2.56126 GHz | 0.95 dBm | -29.05 dB |
| 2.570 GHz | 2.571 GHz | 150.000 kHz | 2.57015 GHz | -32.75 dBm | -22.75 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57119 GHz | -25.19 dBm | -15.19 dB |
| 2.575 GHz | 2.585 GHz | 1.000 MHz | 2.57581 GHz | -27.34 dBm | -14.34 dB |
| 2.585 GHz | 2.595 GHz | 1.000 MHz | 2.58515 GHz | -37.07 dBm | -12.07 dB |

Date: 15.MAY.2015 12:26:29

## LTE Band 7 / 15MHz / 16QAM

### Lowest Band Edge / 1 RB

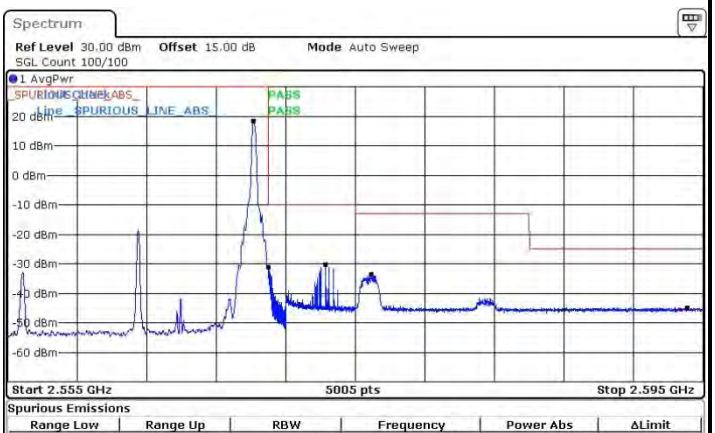



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.48784 GHz | -42.31 dBm | -17.31 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49422 GHz | -29.21 dBm | -16.21 dB |
| 2.496 GHz | 2.515 GHz | 100.000 kHz | 2.50085 GHz | 18.37 dBm | -11.63 dB |

Date: 14.APR.2015 10:40:12

### Highest Band Edge / 1 RB

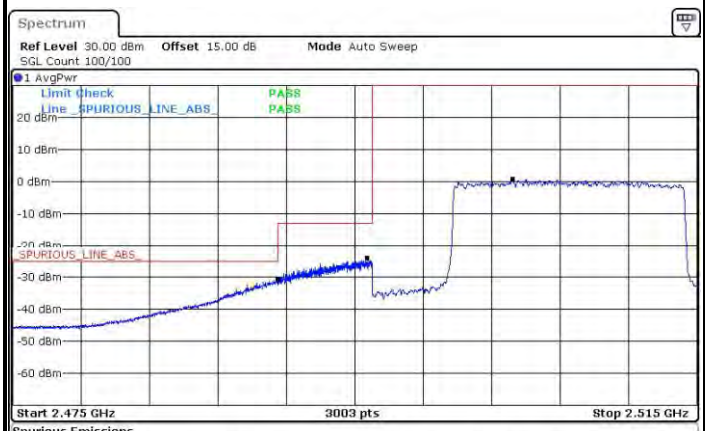



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.555 GHz | 2.570 GHz | 100.000 kHz | 2.56914 GHz | 18.43 dBm | -11.57 dB |
| 2.570 GHz | 2.571 GHz | 150.000 kHz | 2.57000 GHz | -31.33 dBm | -21.33 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57329 GHz | -30.27 dBm | -20.27 dB |
| 2.575 GHz | 2.585 GHz | 1.000 MHz | 2.57590 GHz | -33.66 dBm | -20.66 dB |
| 2.585 GHz | 2.595 GHz | 1.000 MHz | 2.59409 GHz | -44.82 dBm | -19.82 dB |

Date: 15.MAY.2015 12:37:27

### Lowest Band Edge / Full RB

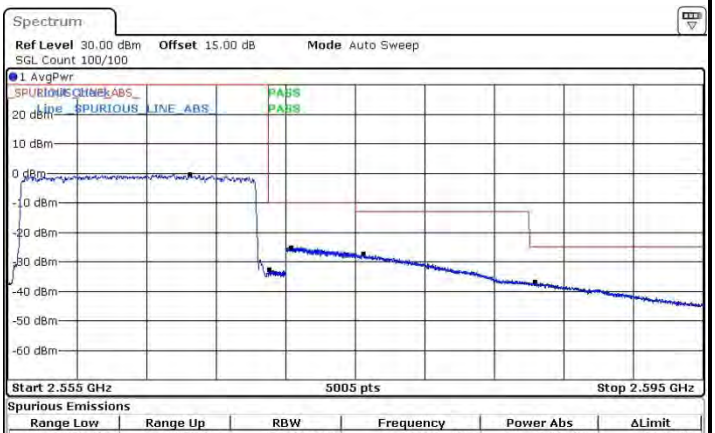



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49049 GHz | -30.61 dBm | -5.61 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49573 GHz | -24.05 dBm | -11.05 dB |
| 2.496 GHz | 2.515 GHz | 100.000 kHz | 2.50421 GHz | 0.68 dBm | -29.32 dB |

Date: 14.APR.2015 10:42:51

### Highest Band Edge / Full RB



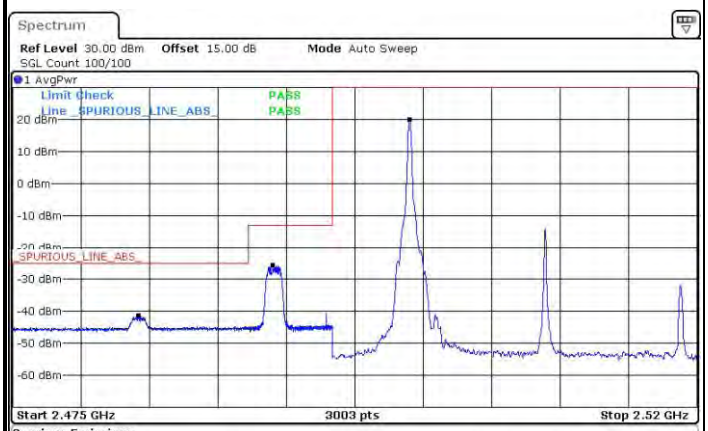

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.555 GHz | 2.570 GHz | 100.000 kHz | 2.56550 GHz | -0.41 dBm | -30.41 dB |
| 2.570 GHz | 2.571 GHz | 150.000 kHz | 2.57002 GHz | -32.82 dBm | -22.82 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57133 GHz | -25.12 dBm | -15.12 dB |
| 2.575 GHz | 2.585 GHz | 1.000 MHz | 2.57547 GHz | -27.33 dBm | -14.33 dB |
| 2.585 GHz | 2.595 GHz | 1.000 MHz | 2.58533 GHz | -36.83 dBm | -11.83 dB |

Date: 15.MAY.2015 12:29:18

## LTE Band 7 / 20MHz / QPSK

### Lowest Band Edge / 1 RB

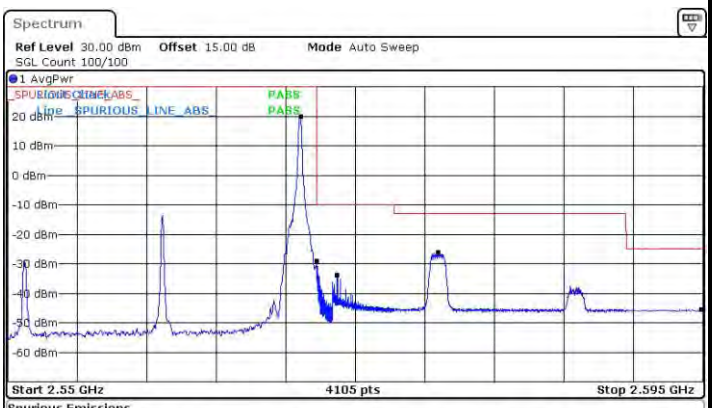



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.48326 GHz | -41.40 dBm | -16.40 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49211 GHz | -25.50 dBm | -12.50 dB |
| 2.496 GHz | 2.520 GHz | 100.000 kHz | 2.50107 GHz | 20.03 dBm | -9.97 dB |

Date: 14.APR.2015 10:59:49

### Highest Band Edge / 1 RB

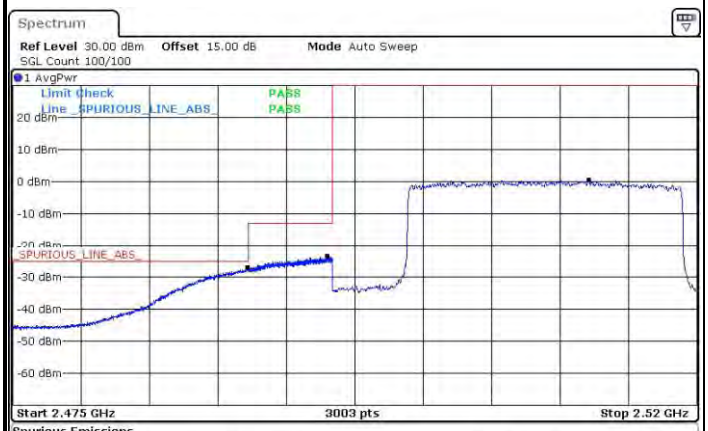



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.550 GHz | 2.570 GHz | 100.000 kHz | 2.56895 GHz | 20.00 dBm | -10.00 dB |
| 2.570 GHz | 2.571 GHz | 200.000 kHz | 2.57002 GHz | -29.24 dBm | -19.24 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57131 GHz | -33.99 dBm | -23.99 dB |
| 2.575 GHz | 2.590 GHz | 1.000 MHz | 2.57782 GHz | -26.13 dBm | -13.13 dB |
| 2.590 GHz | 2.595 GHz | 1.000 MHz | 2.59488 GHz | -45.56 dBm | -20.56 dB |

Date: 14.APR.2015 11:12:00

### Lowest Band Edge / Full RB

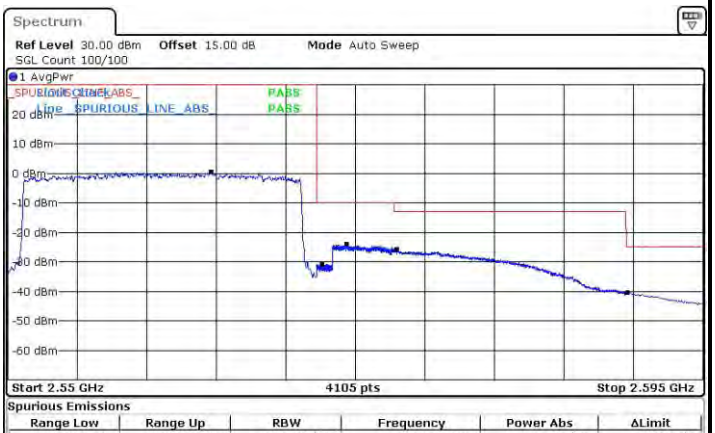



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49045 GHz | -27.04 dBm | -2.04 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49566 GHz | -23.33 dBm | -10.33 dB |
| 2.496 GHz | 2.520 GHz | 100.000 kHz | 2.51289 GHz | 0.34 dBm | -29.66 dB |

Date: 14.APR.2015 11:02:28

### Highest Band Edge / Full RB



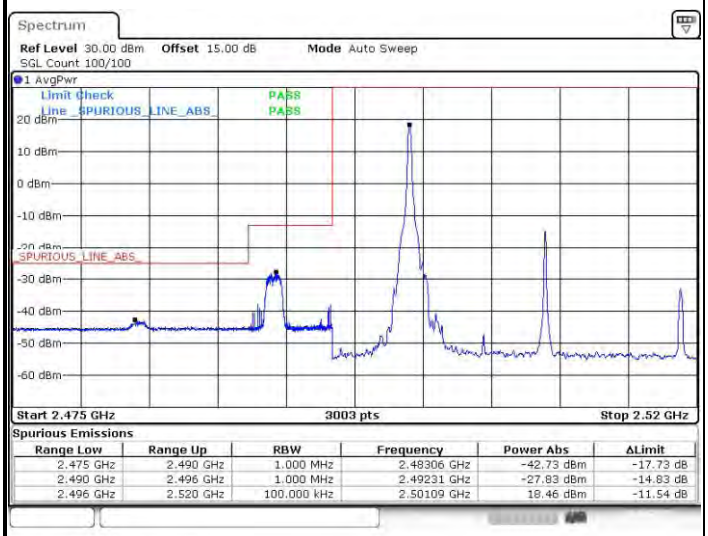

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.550 GHz | 2.570 GHz | 100.000 kHz | 2.56314 GHz | 0.40 dBm | -29.60 dB |
| 2.570 GHz | 2.571 GHz | 200.000 kHz | 2.57036 GHz | -30.87 dBm | -20.87 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57194 GHz | -24.17 dBm | -14.17 dB |
| 2.575 GHz | 2.590 GHz | 1.000 MHz | 2.57516 GHz | -25.76 dBm | -12.76 dB |
| 2.590 GHz | 2.595 GHz | 1.000 MHz | 2.59007 GHz | -40.48 dBm | -15.48 dB |

Date: 14.APR.2015 11:15:59

## LTE Band 7 / 20MHz / 16QAM

### Lowest Band Edge /1 RB

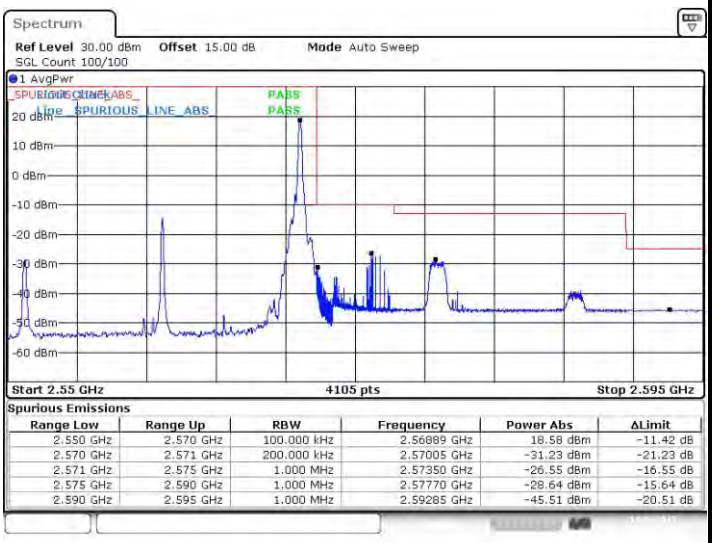



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.48306 GHz | -42.73 dBm | -17.73 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49231 GHz | -27.83 dBm | -14.83 dB |
| 2.496 GHz | 2.520 GHz | 100.000 kHz | 2.50109 GHz | 18.46 dBm | -11.54 dB |

Date: 14.APR.2015 11:01:08

### Highest Band Edge / 1RB

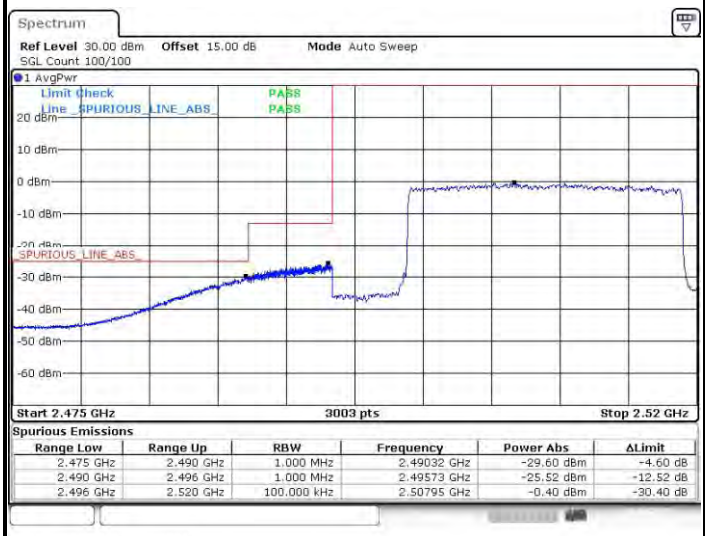



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.550 GHz | 2.570 GHz | 100.000 kHz | 2.56889 GHz | 18.58 dBm | -11.42 dB |
| 2.570 GHz | 2.571 GHz | 200.000 kHz | 2.57005 GHz | -31.23 dBm | -21.23 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57350 GHz | -26.55 dBm | -16.55 dB |
| 2.575 GHz | 2.590 GHz | 1.000 MHz | 2.57770 GHz | -28.64 dBm | -15.64 dB |
| 2.590 GHz | 2.595 GHz | 1.000 MHz | 2.59285 GHz | -45.51 dBm | -20.51 dB |

Date: 14.APR.2015 11:13:20

### Lowest Band Edge / Full RB

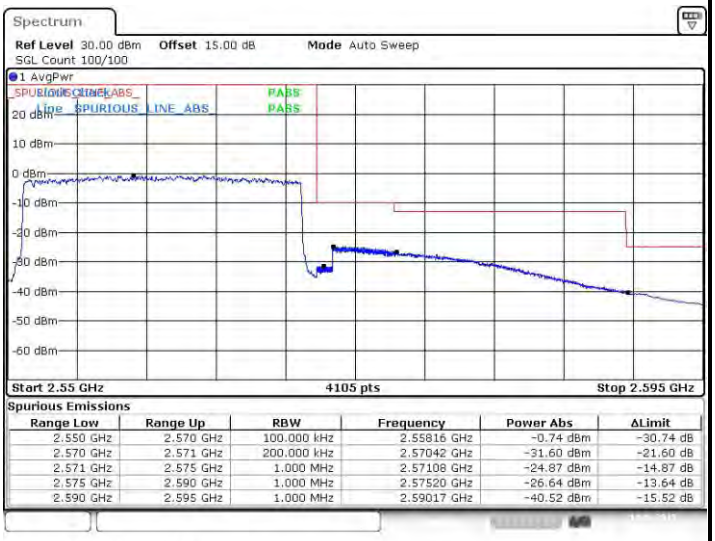



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49032 GHz | -29.60 dBm | -4.60 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49573 GHz | -25.52 dBm | -12.52 dB |
| 2.496 GHz | 2.520 GHz | 100.000 kHz | 2.50795 GHz | -0.40 dBm | -30.40 dB |

Date: 14.APR.2015 11:03:47

### Highest Band Edge / Full RB




Spurious Emissions

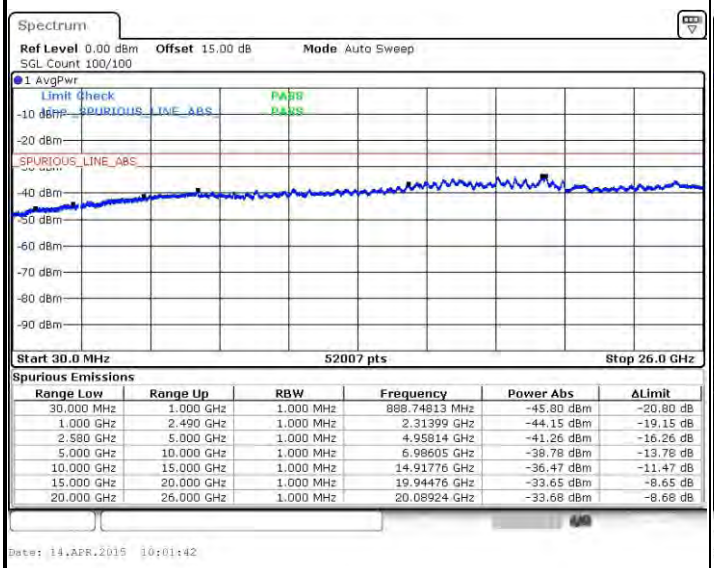
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.550 GHz | 2.570 GHz | 100.000 kHz | 2.55816 GHz | -0.74 dBm | -30.74 dB |
| 2.570 GHz | 2.571 GHz | 200.000 kHz | 2.57042 GHz | -31.60 dBm | -21.60 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57108 GHz | -24.87 dBm | -14.87 dB |
| 2.575 GHz | 2.590 GHz | 1.000 MHz | 2.57520 GHz | -26.64 dBm | -13.64 dB |
| 2.590 GHz | 2.595 GHz | 1.000 MHz | 2.59017 GHz | -40.52 dBm | -15.52 dB |

Date: 14.APR.2015 11:14:39

# Conducted Spurious Emission

## LTE Band 7 / 5MHz

### Lowest Channel / QPSK

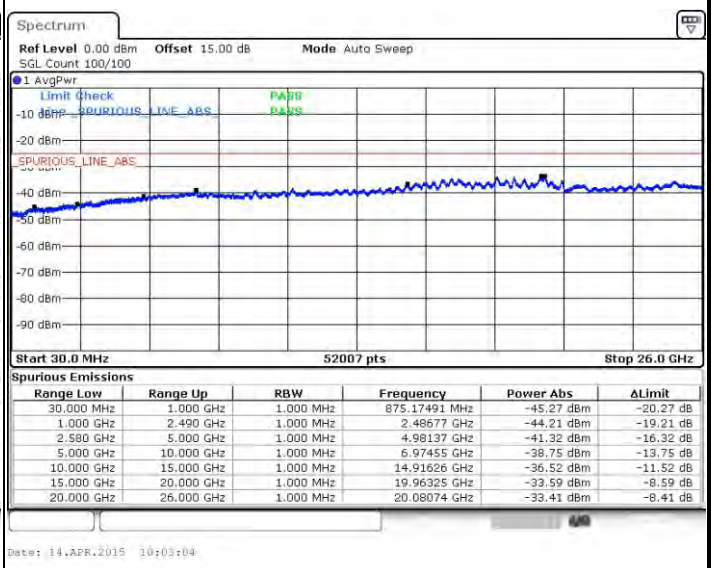



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 888.74813 MHz | -45.80 dBm | -20.80 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.31399 GHz | -44.15 dBm | -19.15 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.95814 GHz | -41.26 dBm | -16.26 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.98605 GHz | -38.78 dBm | -13.78 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.91776 GHz | -36.47 dBm | -11.47 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 19.94476 GHz | -33.65 dBm | -8.65 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.08924 GHz | -33.68 dBm | -8.68 dB |

Date: 14.APR.2015 10:01:42

### Lowest Channel / 16QAM

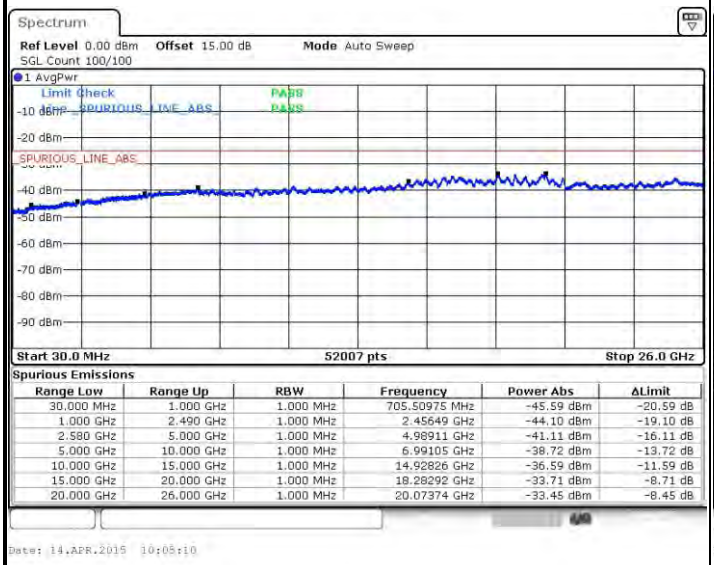



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 875.17491 MHz | -45.27 dBm | -20.27 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48677 GHz | -44.21 dBm | -19.21 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.98137 GHz | -41.32 dBm | -16.32 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.97455 GHz | -38.75 dBm | -13.75 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.91626 GHz | -36.52 dBm | -11.52 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 19.96325 GHz | -33.59 dBm | -8.59 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.08074 GHz | -33.41 dBm | -8.41 dB |

Date: 14.APR.2015 10:03:04

### Middle Channel / QPSK

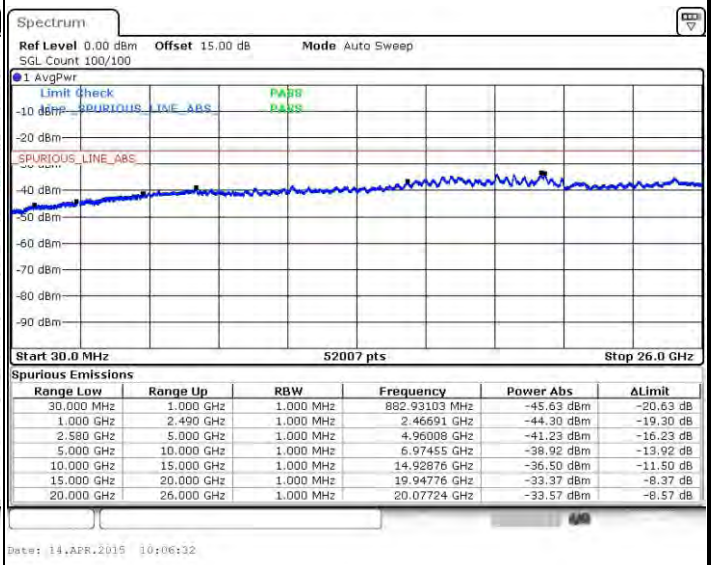



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 705.50975 MHz | -45.59 dBm | -20.59 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.45649 GHz | -44.10 dBm | -19.10 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.98911 GHz | -41.11 dBm | -16.11 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.99105 GHz | -38.72 dBm | -13.72 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.92826 GHz | -36.59 dBm | -11.59 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 18.28292 GHz | -33.71 dBm | -8.71 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.07374 GHz | -33.45 dBm | -8.45 dB |

Date: 14.APR.2015 10:05:10

### Middle Channel / 16QAM



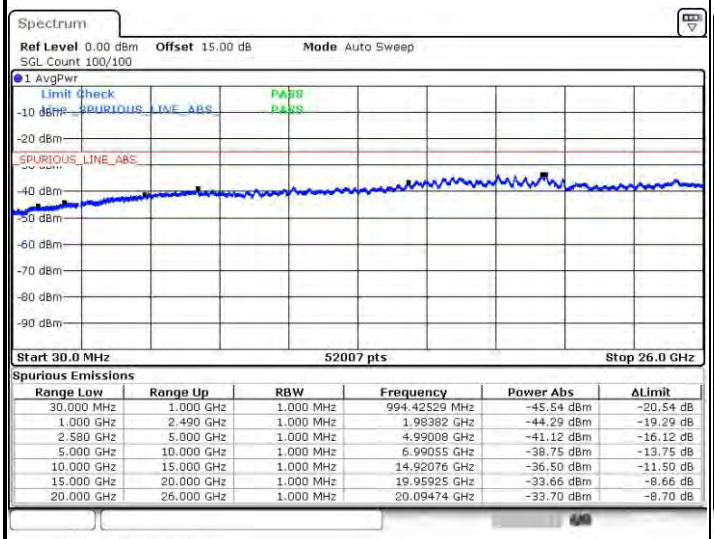

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 882.93103 MHz | -45.63 dBm | -20.63 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46691 GHz | -44.30 dBm | -19.30 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.96008 GHz | -41.23 dBm | -16.23 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.97455 GHz | -38.92 dBm | -13.92 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.92876 GHz | -36.50 dBm | -11.50 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 19.94776 GHz | -33.37 dBm | -8.37 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.07724 GHz | -33.57 dBm | -8.57 dB |

Date: 14.APR.2015 10:06:32

## LTE Band 7 / 5MHz

### Highest Channel / QPSK

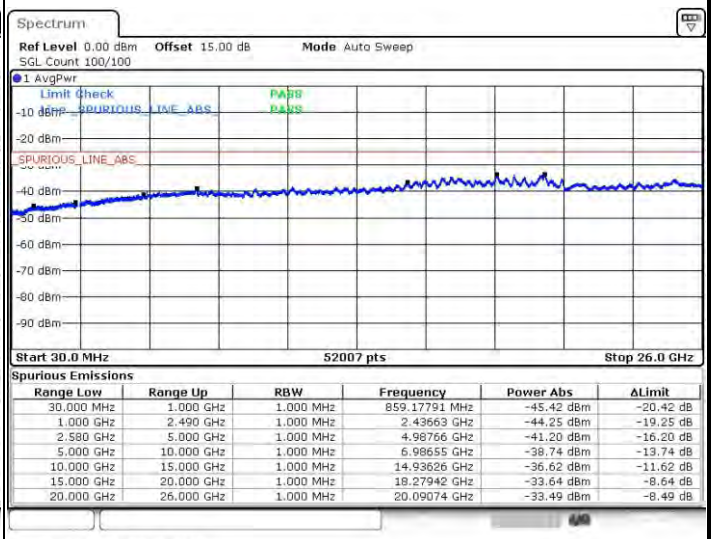



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 994.42529 MHz | -45.54 dBm | -20.54 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 1.98382 GHz | -44.29 dBm | -19.29 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.99008 GHz | -41.12 dBm | -16.12 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.99055 GHz | -38.75 dBm | -13.75 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.92076 GHz | -36.50 dBm | -11.50 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 19.95925 GHz | -33.66 dBm | -8.66 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.09474 GHz | -33.70 dBm | -8.70 dB |

Date: 14.APR.2015 10:14:03

### Highest Channel / 16QAM



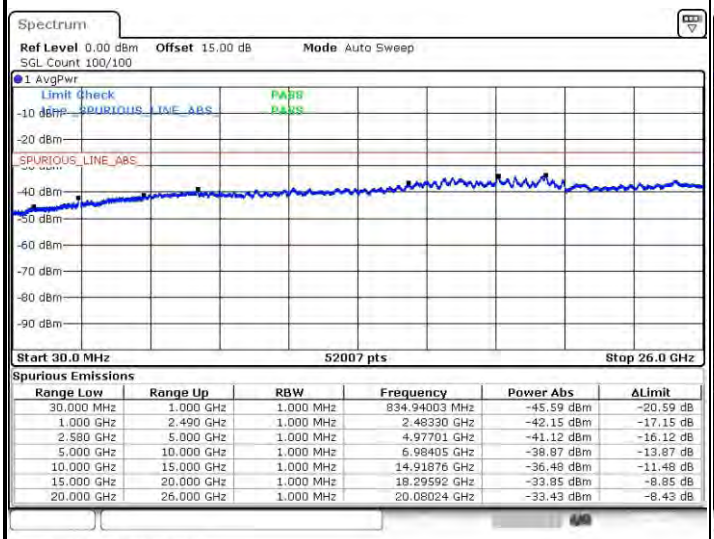

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 859.17791 MHz | -45.42 dBm | -20.42 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.43663 GHz | -44.25 dBm | -19.25 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.98766 GHz | -41.20 dBm | -16.20 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.98655 GHz | -38.74 dBm | -13.74 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.93626 GHz | -36.62 dBm | -11.62 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 18.27942 GHz | -33.64 dBm | -8.64 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.09074 GHz | -33.49 dBm | -8.49 dB |

Date: 14.APR.2015 10:15:25

## LTE Band 7 / 10MHz

### Lowest Channel / QPSK

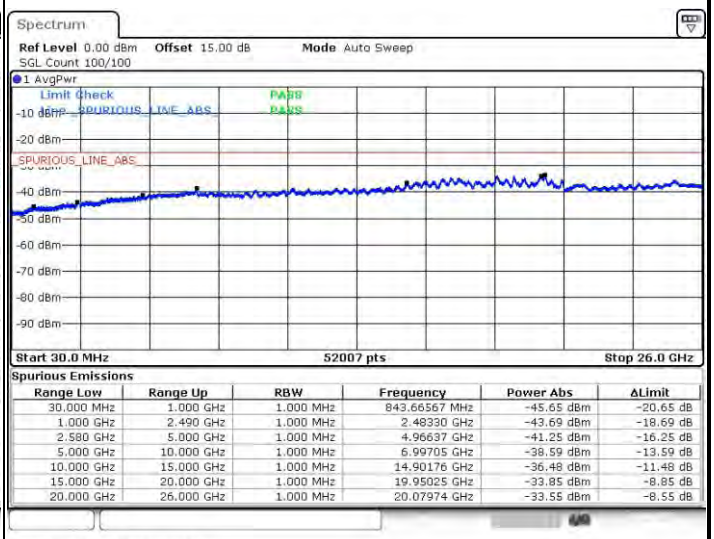



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 834.94003 MHz | -45.59 dBm | -20.59 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48330 GHz | -42.15 dBm | -17.15 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.97701 GHz | -41.12 dBm | -16.12 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.98405 GHz | -38.87 dBm | -13.87 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.91876 GHz | -36.48 dBm | -11.48 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 18.29592 GHz | -33.85 dBm | -8.85 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.08024 GHz | -33.43 dBm | -8.43 dB |

Date: 14.APR.2015 10:23:09

### Lowest Channel / 16QAM



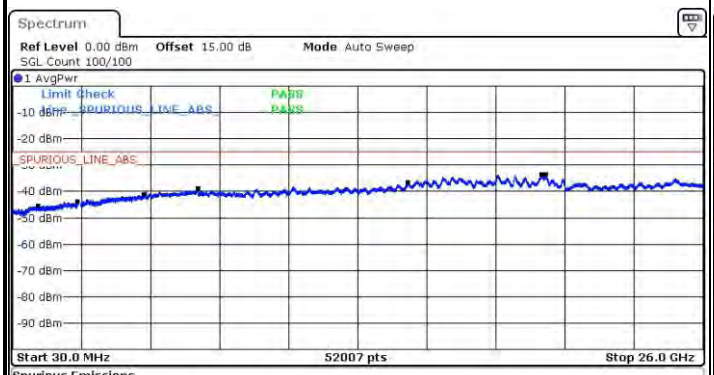

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 843.66567 MHz | -45.65 dBm | -20.65 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48330 GHz | -43.69 dBm | -18.69 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.96637 GHz | -41.25 dBm | -16.25 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.99705 GHz | -38.59 dBm | -13.59 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.90176 GHz | -36.48 dBm | -11.48 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 19.95025 GHz | -33.85 dBm | -8.85 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.07974 GHz | -33.55 dBm | -8.55 dB |

Date: 14.APR.2015 10:24:30

## LTE Band 7 / 10MHz

### Middle Channel / QPSK

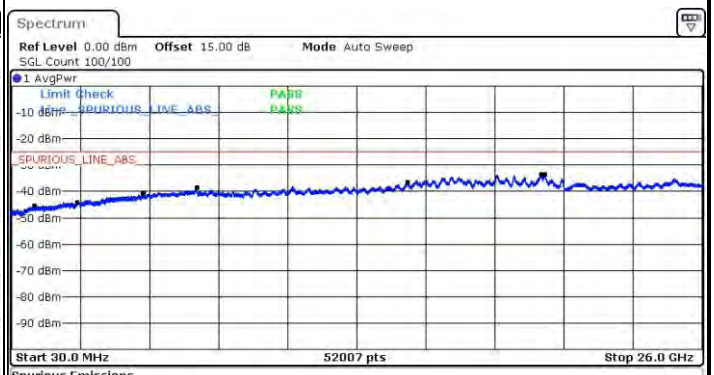



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 990.54723 MHz | -45.53 dBm | -20.53 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46642 GHz | -43.95 dBm | -18.95 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.96588 GHz | -41.16 dBm | -16.16 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.98555 GHz | -38.83 dBm | -13.83 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.90376 GHz | -36.61 dBm | -11.61 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 19.92926 GHz | -33.71 dBm | -8.71 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.08574 GHz | -33.50 dBm | -8.50 dB |

Date: 14.APR.2015 10:26:39

### Middle Channel / 16QAM

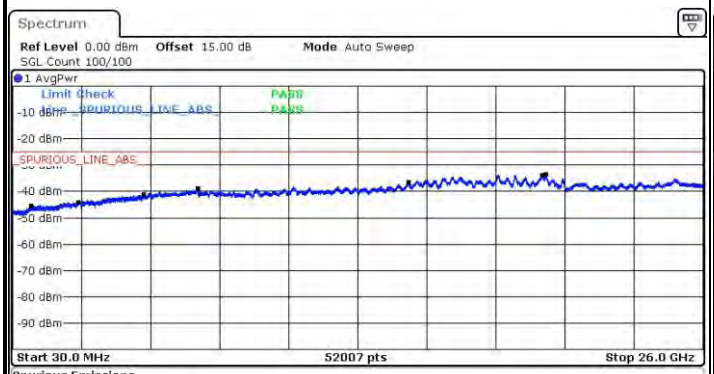



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 885.83958 MHz | -45.55 dBm | -20.55 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48926 GHz | -44.15 dBm | -19.15 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.97314 GHz | -40.97 dBm | -15.97 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.99255 GHz | -38.66 dBm | -13.66 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.92076 GHz | -36.48 dBm | -11.48 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 19.95225 GHz | -33.63 dBm | -8.63 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.08724 GHz | -33.48 dBm | -8.48 dB |

Date: 14.APR.2015 10:27:56

### Highest Channel / QPSK

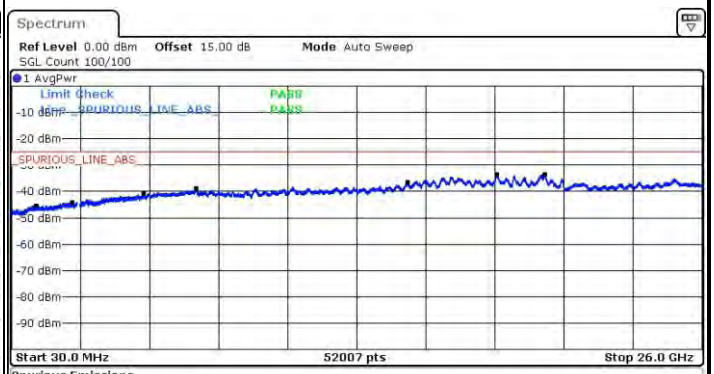



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 714.72014 MHz | -45.38 dBm | -20.38 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48528 GHz | -44.22 dBm | -19.22 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.96201 GHz | -41.22 dBm | -16.22 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.99305 GHz | -38.73 dBm | -13.73 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.91876 GHz | -36.57 dBm | -11.57 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 19.94376 GHz | -33.90 dBm | -8.90 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.07974 GHz | -33.41 dBm | -8.41 dB |

Date: 14.APR.2015 10:35:26

### Highest Channel / 16QAM



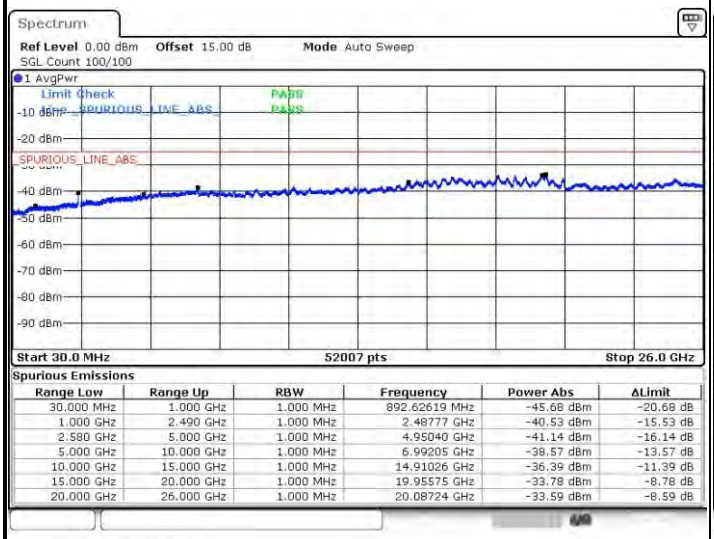

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 946.91904 MHz | -45.47 dBm | -20.47 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.29612 GHz | -44.09 dBm | -19.09 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.98911 GHz | -40.98 dBm | -15.98 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.97455 GHz | -38.84 dBm | -13.84 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.92126 GHz | -36.44 dBm | -11.44 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 18.29092 GHz | -33.59 dBm | -8.59 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.07724 GHz | -33.60 dBm | -8.60 dB |

Date: 14.APR.2015 10:36:47

## LTE Band 7 / 15MHz

### Lowest Channel / QPSK

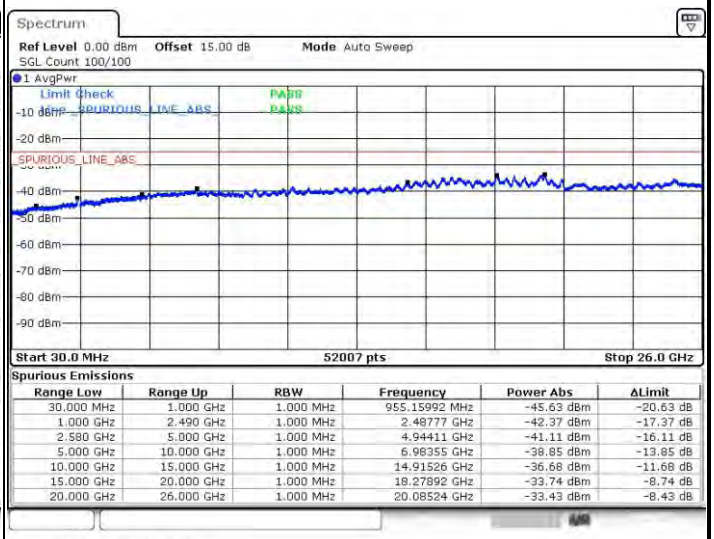



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 892.62619 MHz | -45.68 dBm | -20.68 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48777 GHz | -40.53 dBm | -15.53 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.95040 GHz | -41.14 dBm | -16.14 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.99205 GHz | -38.57 dBm | -13.57 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.91026 GHz | -36.39 dBm | -11.39 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 19.95575 GHz | -33.78 dBm | -8.78 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.08724 GHz | -33.59 dBm | -8.59 dB |

Date: 14.APR.2015 10:44:11

### Lowest Channel / 16QAM

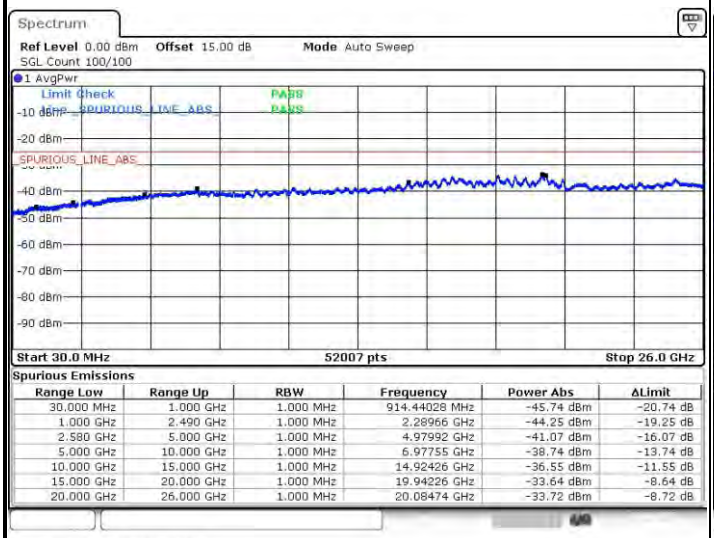



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 955.15992 MHz | -45.63 dBm | -20.63 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48777 GHz | -42.37 dBm | -17.37 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.94411 GHz | -41.11 dBm | -16.11 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.98355 GHz | -38.85 dBm | -13.85 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.91526 GHz | -36.68 dBm | -11.68 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 18.27892 GHz | -33.74 dBm | -8.74 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.08524 GHz | -33.43 dBm | -8.43 dB |

Date: 14.APR.2015 10:45:32

### Middle Channel / QPSK

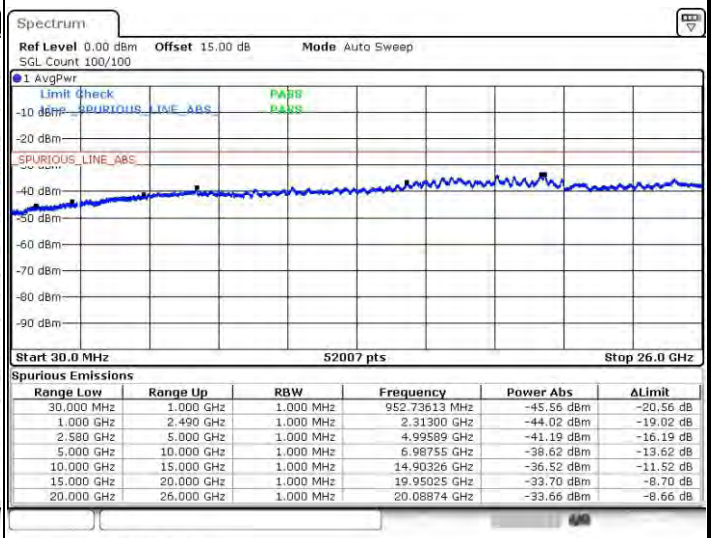



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 914.44028 MHz | -45.74 dBm | -20.74 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.28966 GHz | -44.25 dBm | -19.25 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.97992 GHz | -41.07 dBm | -16.07 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.97755 GHz | -38.74 dBm | -13.74 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.92426 GHz | -36.55 dBm | -11.55 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 19.94226 GHz | -33.64 dBm | -8.64 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.08474 GHz | -33.72 dBm | -8.72 dB |

Date: 14.APR.2015 10:47:38

### Middle Channel / 16QAM



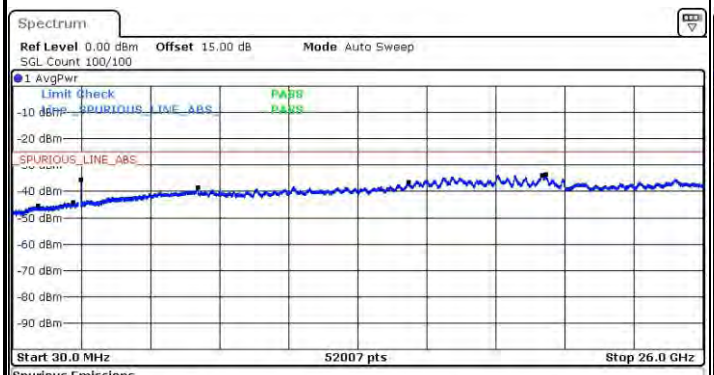

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 952.73613 MHz | -45.56 dBm | -20.56 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.31300 GHz | -44.02 dBm | -19.02 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.99589 GHz | -41.19 dBm | -16.19 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.98755 GHz | -38.62 dBm | -13.62 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.90326 GHz | -36.52 dBm | -11.52 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 19.95025 GHz | -33.70 dBm | -8.70 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.08874 GHz | -33.66 dBm | -8.66 dB |

Date: 14.APR.2015 10:48:59

## LTE Band7 / 15MHz

### Highest Channel / QPSK

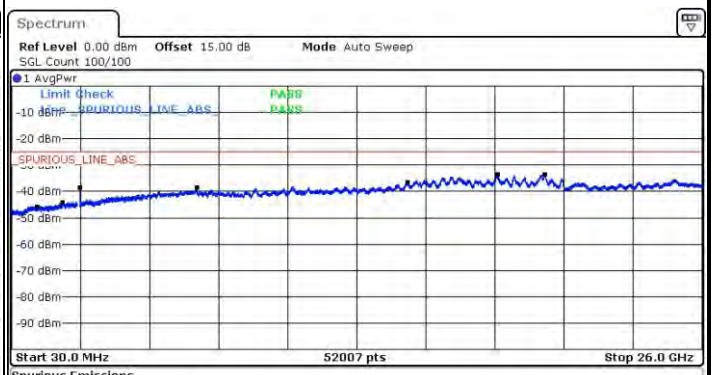



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 991.03198 MHz | -45.58 dBm | -20.58 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.30108 GHz | -44.16 dBm | -19.16 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 2.58266 GHz | -35.51 dBm | -10.51 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.99305 GHz | -38.66 dBm | -13.66 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.91076 GHz | -36.53 dBm | -11.53 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 19.94876 GHz | -33.85 dBm | -8.85 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.08324 GHz | -33.50 dBm | -8.50 dB |

Date: 14.APR.2015 10:56:23

### Highest Channel / 16QAM



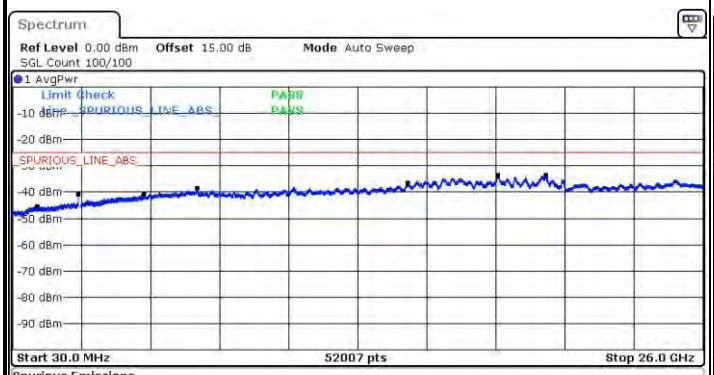

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 994.91004 MHz | -45.71 dBm | -20.71 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 1.95303 GHz | -44.17 dBm | -19.17 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 2.58266 GHz | -38.64 dBm | -13.64 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.98555 GHz | -38.63 dBm | -13.63 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.92926 GHz | -36.57 dBm | -11.57 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 18.29342 GHz | -33.66 dBm | -8.66 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.07724 GHz | -33.59 dBm | -8.59 dB |

Date: 14.APR.2015 10:57:44

## LTE Band 7 / 20MHz

### Lowest Channel / QPSK

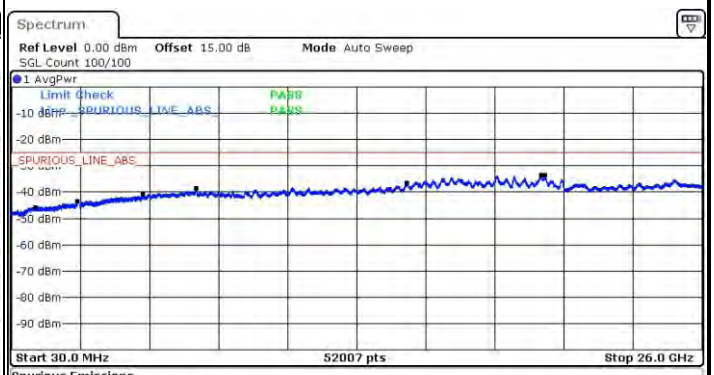



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 938.19340 MHz | -45.62 dBm | -20.62 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48379 GHz | -41.00 dBm | -16.00 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.97701 GHz | -41.00 dBm | -16.00 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.96855 GHz | -38.68 dBm | -13.68 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.89876 GHz | -36.41 dBm | -11.41 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 18.28192 GHz | -33.66 dBm | -8.66 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.07974 GHz | -33.54 dBm | -8.54 dB |

Date: 14.APR.2015 11:05:08

### Lowest Channel / 16QAM



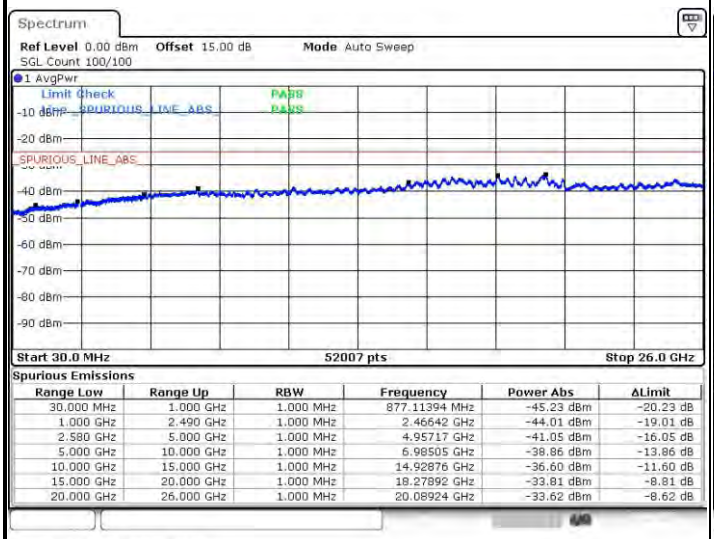

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 932.86107 MHz | -45.68 dBm | -20.68 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48379 GHz | -43.50 dBm | -18.50 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.97556 GHz | -40.91 dBm | -15.91 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.98005 GHz | -38.68 dBm | -13.68 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.89876 GHz | -36.43 dBm | -11.43 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 19.95425 GHz | -33.63 dBm | -8.63 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.07724 GHz | -33.52 dBm | -8.52 dB |

Date: 14.APR.2015 11:06:29

## LTE Band 7 / 20MHz

### Middle Channel / QPSK

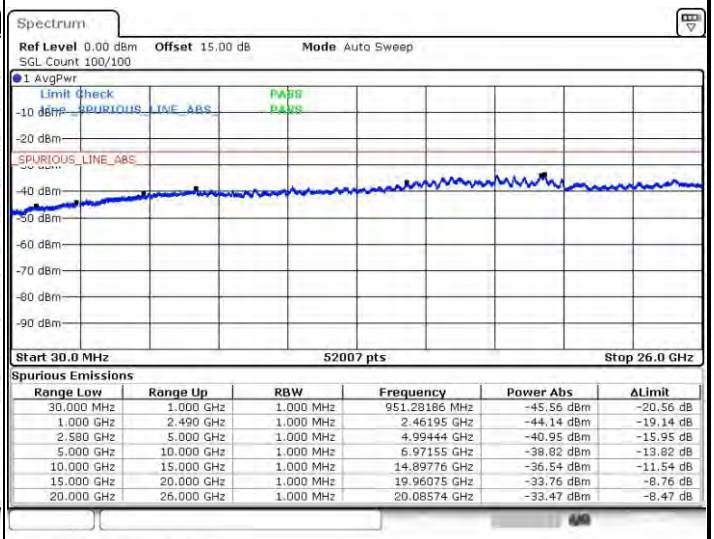



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 877.11394 MHz | -45.23 dBm | -20.23 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46642 GHz | -44.01 dBm | -19.01 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.95717 GHz | -41.05 dBm | -16.05 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.98505 GHz | -38.86 dBm | -13.86 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.92876 GHz | -36.60 dBm | -11.60 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 18.27892 GHz | -33.81 dBm | -8.81 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.08924 GHz | -33.62 dBm | -8.62 dB |

Date: 14.APR.2015 11:08:34

### Middle Channel / 16QAM

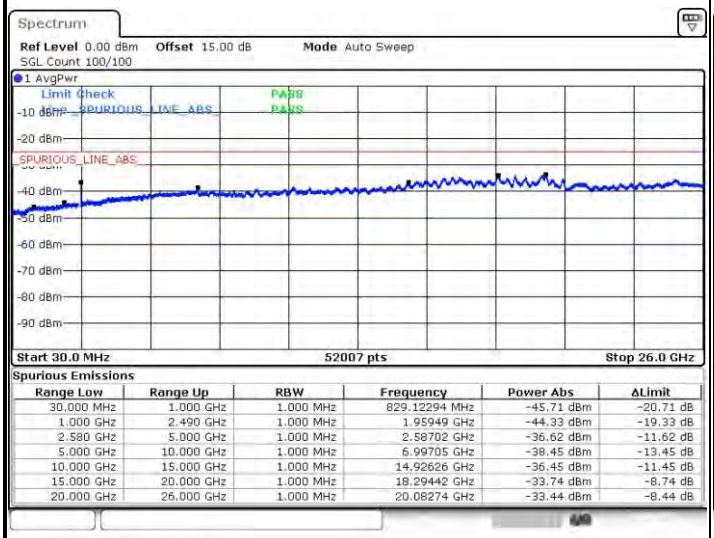



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 951.28186 MHz | -45.56 dBm | -20.56 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46195 GHz | -44.14 dBm | -19.14 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.99444 GHz | -40.95 dBm | -15.95 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.97155 GHz | -38.82 dBm | -13.82 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.89776 GHz | -36.54 dBm | -11.54 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 19.96075 GHz | -33.76 dBm | -8.76 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.08574 GHz | -33.47 dBm | -8.47 dB |

Date: 14.APR.2015 11:09:55

### Highest Channel / QPSK

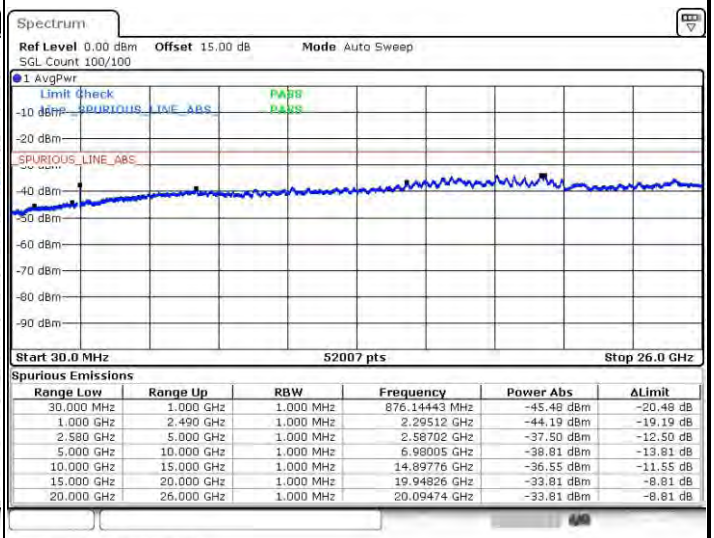



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 829.12294 MHz | -45.71 dBm | -20.71 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 1.95949 GHz | -44.33 dBm | -19.33 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 2.58702 GHz | -36.62 dBm | -11.62 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.99705 GHz | -38.45 dBm | -13.45 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.92626 GHz | -36.45 dBm | -11.45 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 18.29442 GHz | -33.74 dBm | -8.74 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.08274 GHz | -33.44 dBm | -8.44 dB |

Date: 14.APR.2015 11:17:19

### Highest Channel / 16QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 876.14443 MHz | -45.48 dBm | -20.48 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.29512 GHz | -44.19 dBm | -19.19 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 2.58702 GHz | -37.50 dBm | -12.50 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 6.98005 GHz | -38.81 dBm | -13.81 dB |
| 10.000 GHz | 15.000 GHz | 1.000 MHz | 14.89776 GHz | -36.55 dBm | -11.55 dB |
| 15.000 GHz | 20.000 GHz | 1.000 MHz | 19.94826 GHz | -33.81 dBm | -8.81 dB |
| 20.000 GHz | 26.000 GHz | 1.000 MHz | 20.09474 GHz | -33.81 dBm | -8.81 dB |

Date: 14.APR.2015 11:18:40

# Frequency Stability

| Test Conditions | | LTE Band 7 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0016 | PASS |
| 40 | Normal Voltage | 0.0024 | |
| 30 | Normal Voltage | 0.0004 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0008 | |
| 0 | Normal Voltage | 0.0020 | |
| -10 | Normal Voltage | 0.0008 | |
| -20 | Normal Voltage | 0.0000 | |
| -30 | Normal Voltage | 0.0012 | |
| 20 | Maximum Voltage | 0.0008 | |
| 20 | Normal Voltage | 0.0004 | |
| 20 | Battery End Point | 0.0016 | |

**Note:**

1. Normal Voltage = 3.8V. ；Battery End Point (BEP) = 3.5 V.；Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

# LTE Band 17

## Conducted Output Power(Average power)

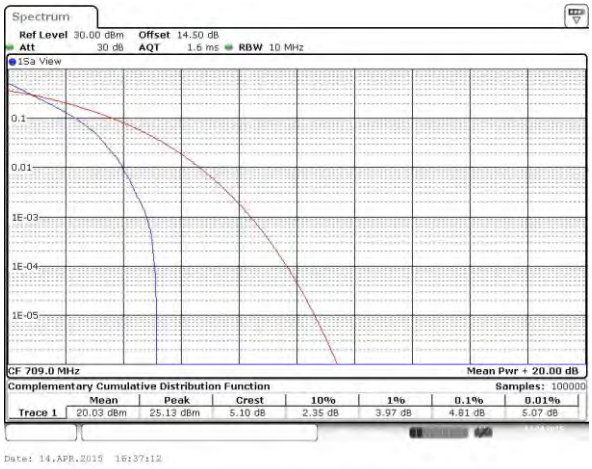
| LTE Band 17 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 5 | 1 | 0 | QPSK | 22.66 | 22.46 | 22.46 |
| 5 | 1 | 12 | | 22.39 | 22.50 | 22.60 |
| 5 | 1 | 24 | | 22.55 | 22.71 | 22.56 |
| 5 | 12 | 0 | | 21.61 | 21.62 | 21.68 |
| 5 | 12 | 6 | | 21.57 | 21.61 | 21.73 |
| 5 | 12 | 11 | | 21.91 | 21.63 | 21.87 |
| 5 | 25 | 0 | | 21.58 | 21.51 | 21.64 |
| 5 | 1 | 0 | 16-QAM | 21.83 | 21.49 | 21.76 |
| 5 | 1 | 12 | | 21.71 | 21.82 | 21.81 |
| 5 | 1 | 24 | | 21.69 | 21.85 | 21.87 |
| 5 | 12 | 0 | | 20.63 | 20.59 | 20.65 |
| 5 | 12 | 6 | | 20.62 | 20.66 | 20.72 |
| 5 | 12 | 11 | | 20.58 | 20.77 | 20.64 |
| 5 | 25 | 0 | | 20.51 | 20.55 | 20.53 |
| 10 | 1 | 0 | QPSK | 22.51 | 22.63 | 22.39 |
| 10 | 1 | 24 | | 22.48 | 22.54 | 22.58 |
| 10 | 1 | 49 | | 22.71 | 22.72 | 22.62 |
| 10 | 25 | 0 | | 21.40 | 21.49 | 21.51 |
| 10 | 25 | 12 | | 21.48 | 21.56 | 21.57 |
| 10 | 25 | 24 | | 21.60 | 21.64 | 21.58 |
| 10 | 50 | 0 | | 21.48 | 21.52 | 21.46 |
| 10 | 1 | 0 | 16-QAM | 21.82 | 21.49 | 21.45 |
| 10 | 1 | 24 | | 21.72 | 21.43 | 21.42 |
| 10 | 1 | 49 | | 21.92 | 21.55 | 21.71 |
| 10 | 25 | 0 | | 20.47 | 20.37 | 20.40 |
| 10 | 25 | 12 | | 20.48 | 20.51 | 20.49 |
| 10 | 25 | 24 | | 20.63 | 20.51 | 20.51 |
| 10 | 50 | 0 | | 20.42 | 20.34 | 20.41 |

# Peak-to-Average Ratio

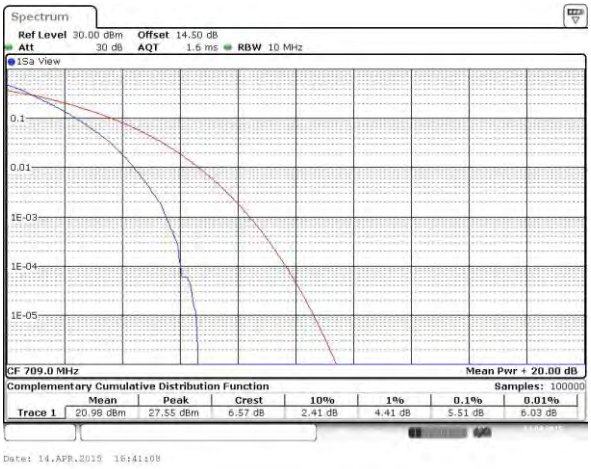
| Mode | LTE Band 17 / 10MHz | | | | |
|---|---|---|---|---|---|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | RB Size | Result |
| Lowest CH | 4.81 | 5.51 | 5.8 | 6.12 | PASS |
| Middle CH | 4.29 | 5.25 | 5.62 | 6.2 | |
| Highest CH | 4.78 | 5.39 | 5.57 | 6.03 | |

## LTE Band 17 / 10MHz / QPSK

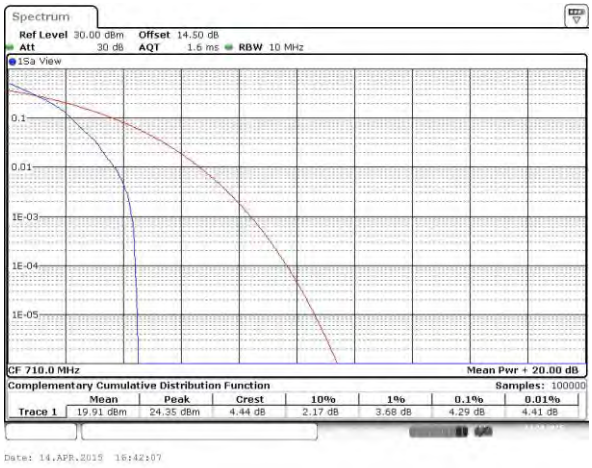
### Lowest Channel / 1RB



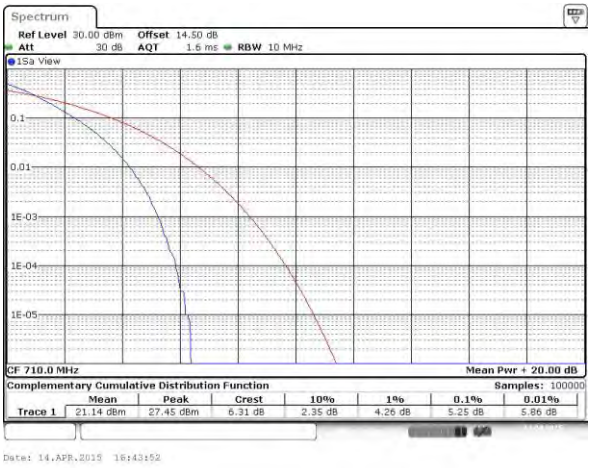

### Lowest Channel / Full RB



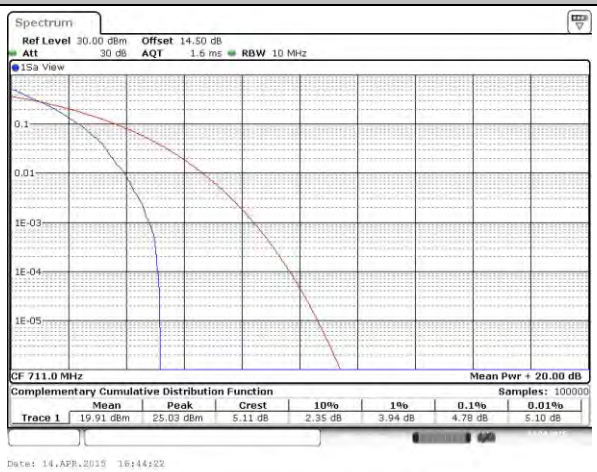

### Middle Channel/ 1RB



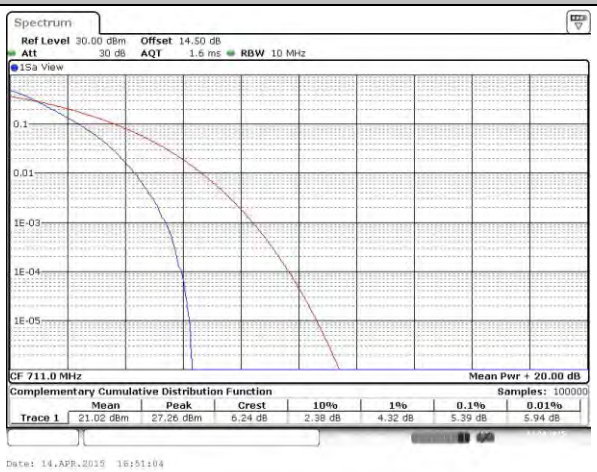

### Middle Channel / Full RB




### Highest Channel/ 1RB

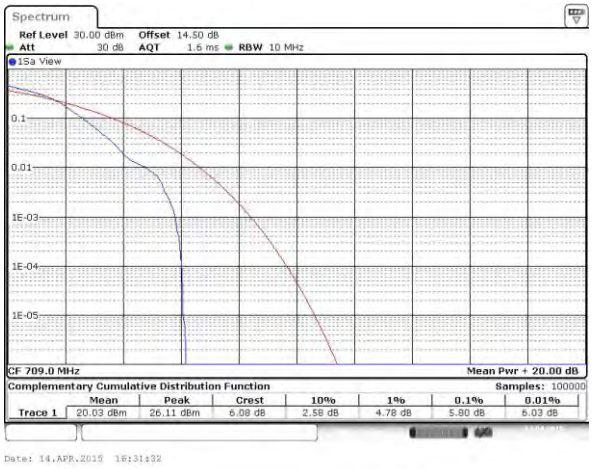



### Highest Channel / Full RB

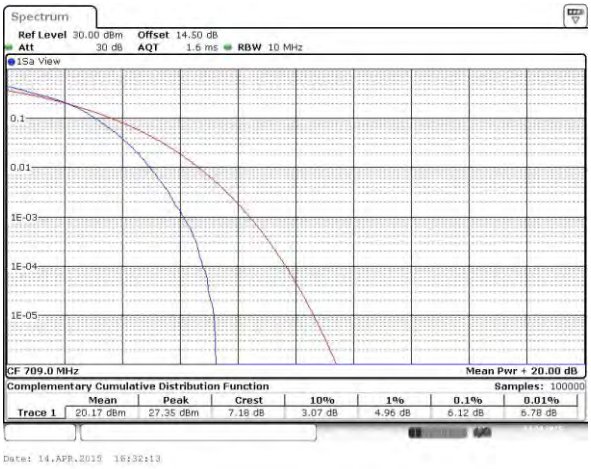


## LTE Band 17 / 10MHz / 16QAM

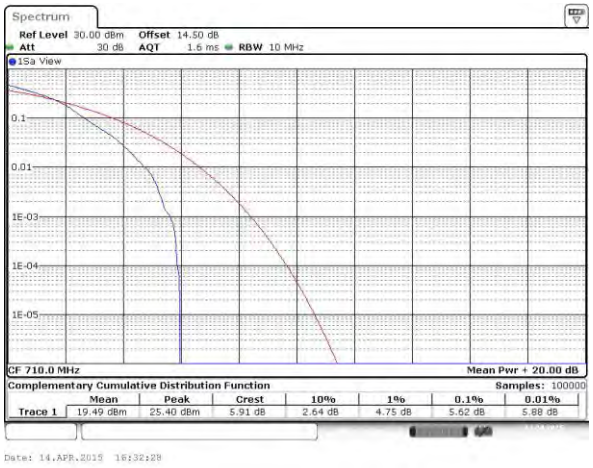
### Lowest Channel / 1RB



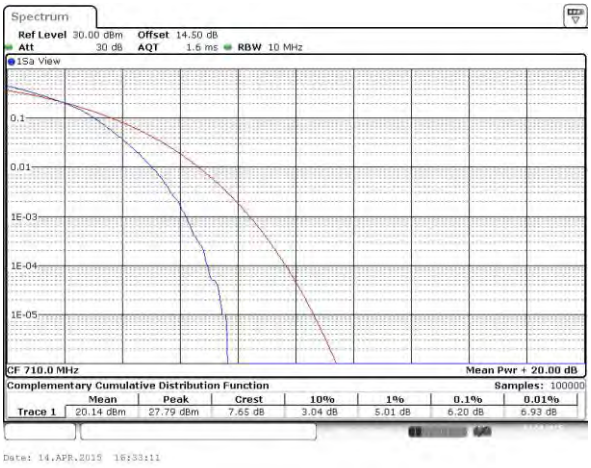

### Lowest Channel / Full RB



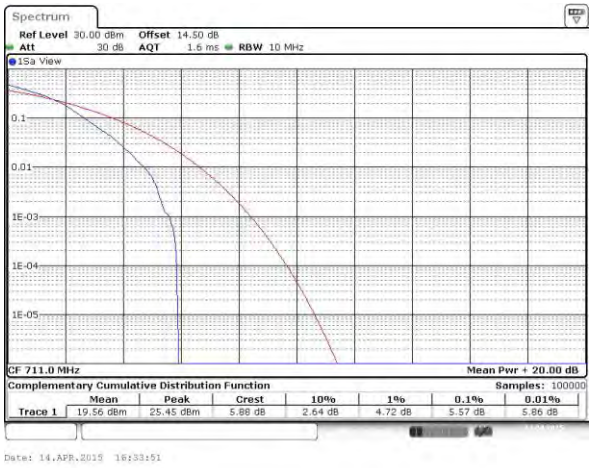

### Middle Channel/ 1RB



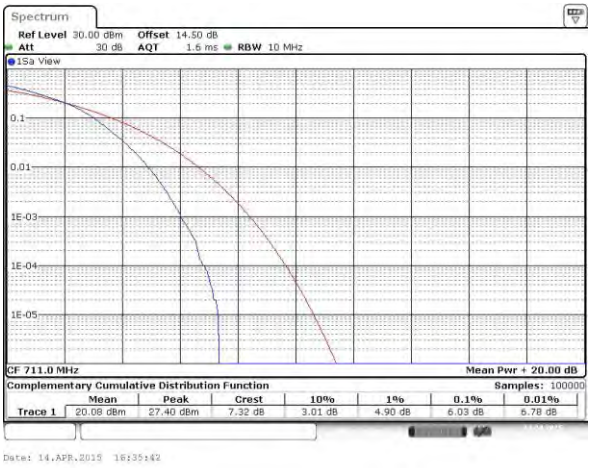

### Middle Channel / Full RB




### Highest Channel/ 1RB




### Highest Channel / Full RB

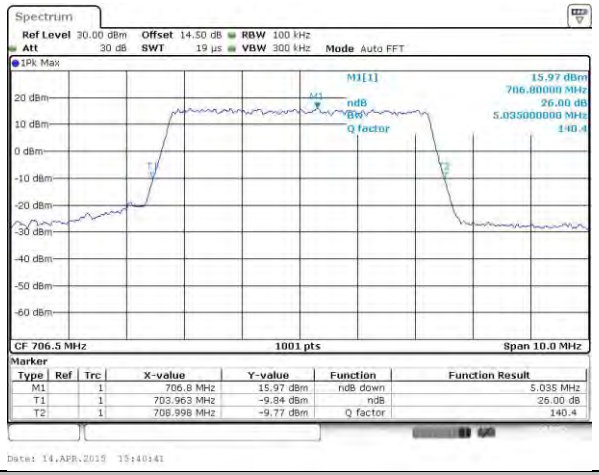


# 26dB Bandwidth

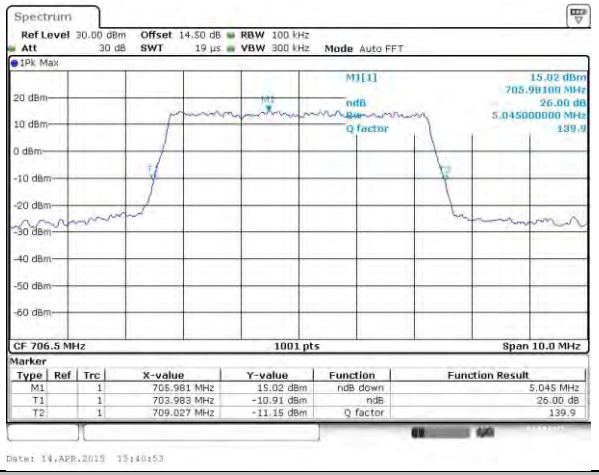
| Mode | LTE Band 17 : 26dB BW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 5.04 | 5.05 | 10.05 | 9.97 | - | - | - | - |
| Middle CH | - | - | - | - | 5.03 | 5.03 | 9.93 | 9.99 | - | - | - | - |
| Highest CH | - | - | - | - | 5.04 | 5.01 | 10.09 | 9.91 | - | - | - | - |

## LTE Band 17

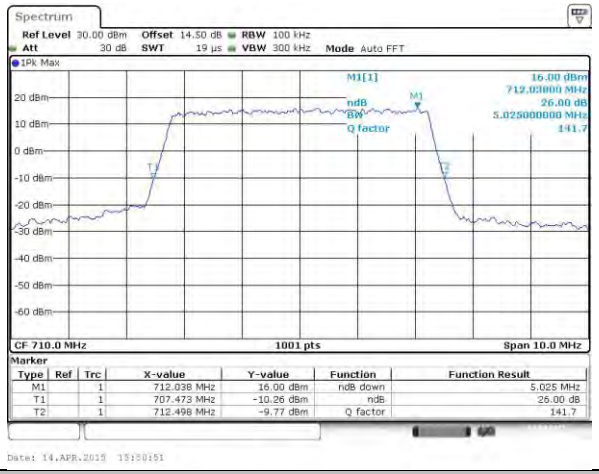
### Lowest Channel / 5MHz / QPSK



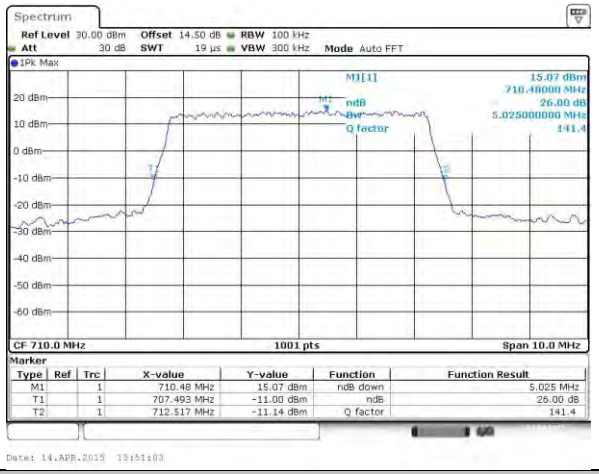

### Lowest Channel / 5MHz / 16QAM



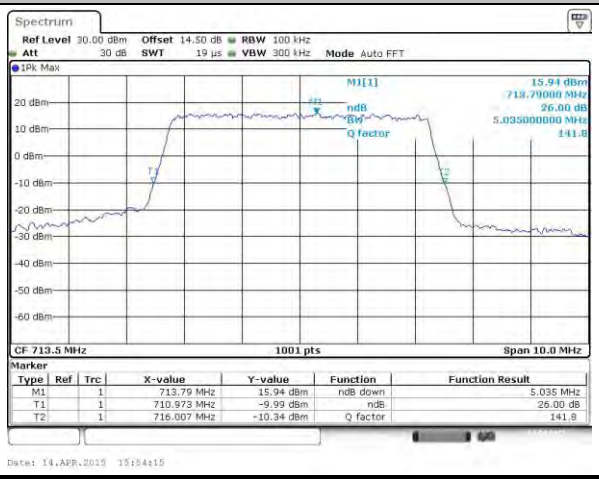

### Middle Channel / 5MHz / QPSK



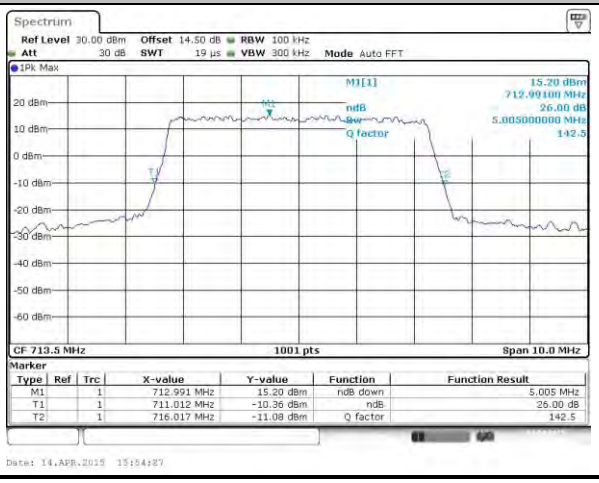

### Middle Channel / 5MHz / 16QAM




### Highest Channel / 5MHz / QPSK

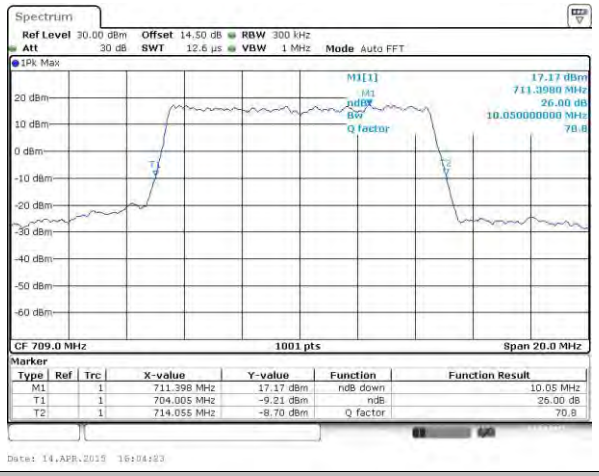



### Highest Channel / 5MHz / 16QAM

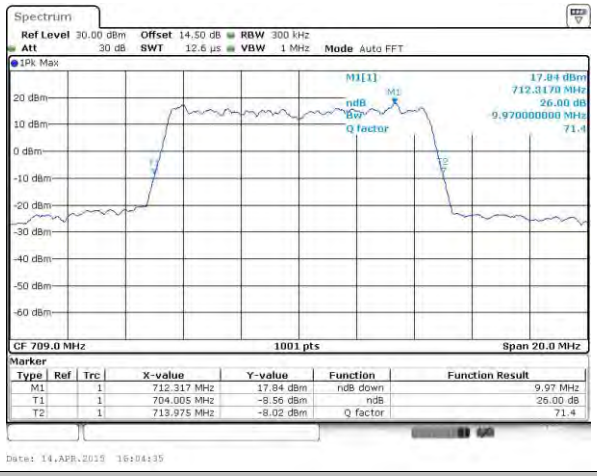


## LTE Band 17

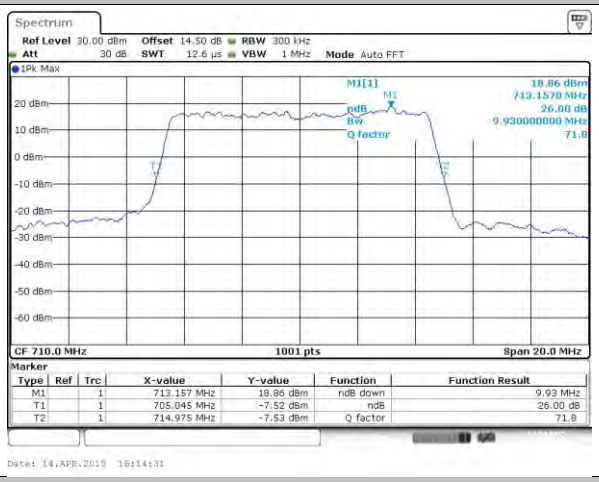
### Lowest Channel / 10MHz / QPSK



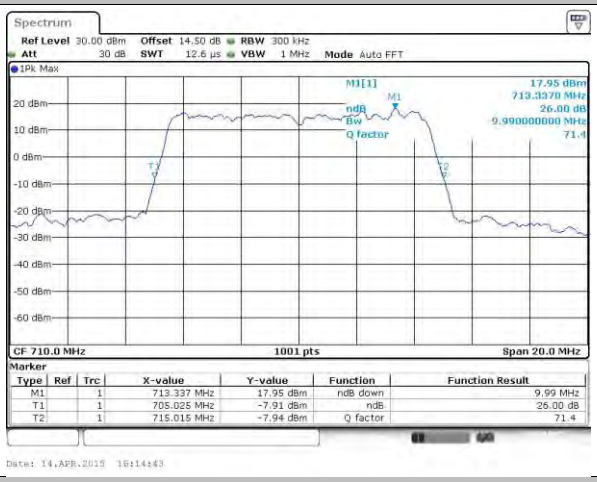

### Lowest Channel / 10MHz / 16QAM



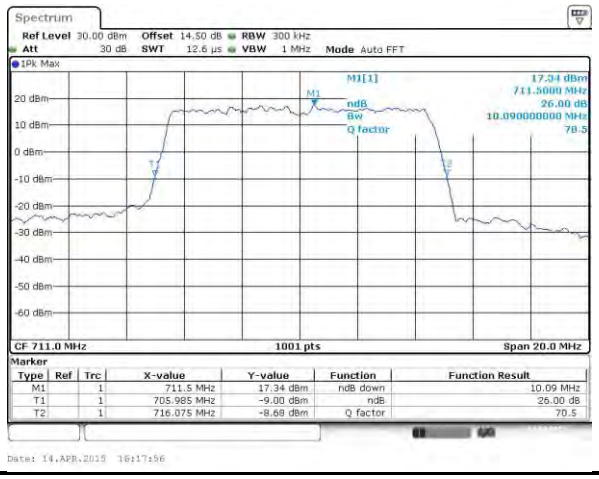

### Middle Channel / 10MHz / QPSK



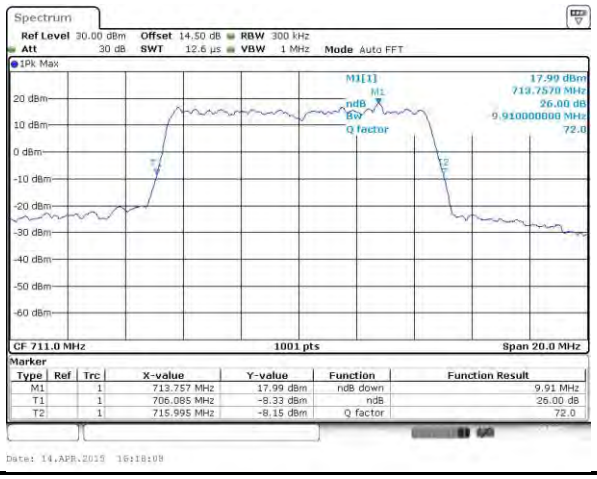

### Middle Channel / 10MHz / 16QAM




### Highest Channel / 10MHz / QPSK




### Highest Channel / 10MHz / 16QAM

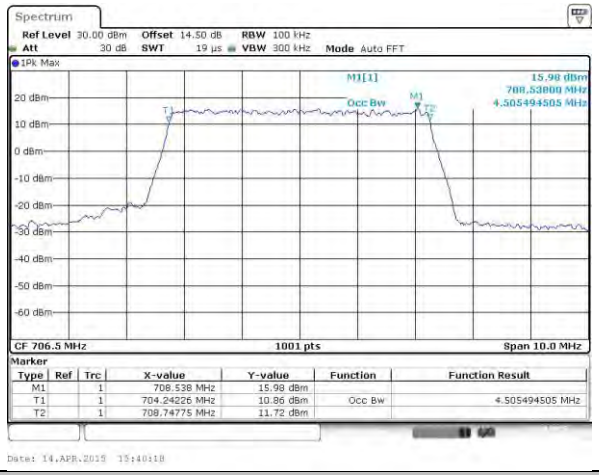


# Occupied Bandwidth

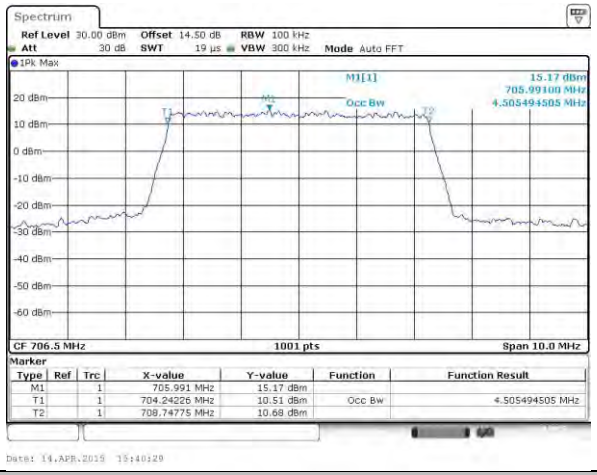
| Mode | LTE Band 17 : 99%OBW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.51 | 4.51 | 9.09 | 9.03 | - | - | - | - |
| Middle CH | - | - | - | - | 4.52 | 4.50 | 9.11 | 9.05 | - | - | - | - |
| Highest CH | - | - | - | - | 4.49 | 4.49 | 9.09 | 9.01 | - | - | - | - |

## LTE Band 17

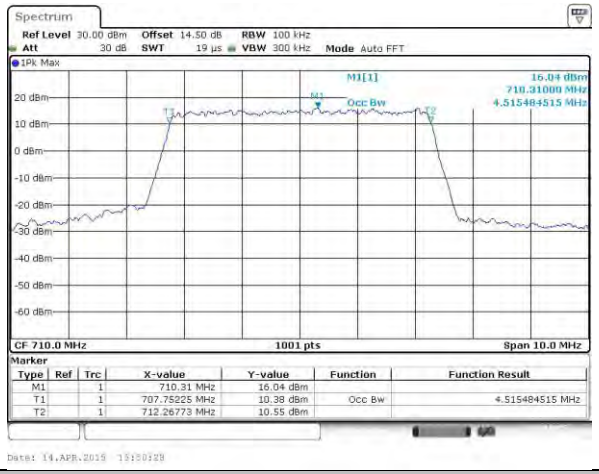
### Lowest Channel / 5MHz / QPSK



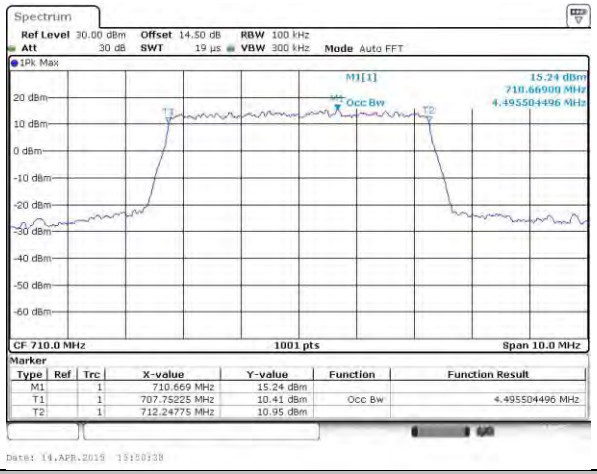

### Lowest Channel / 5MHz / 16QAM



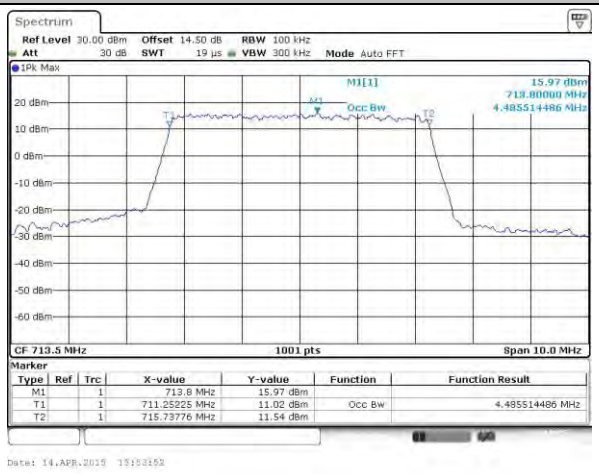

### Middle Channel / 5MHz / QPSK



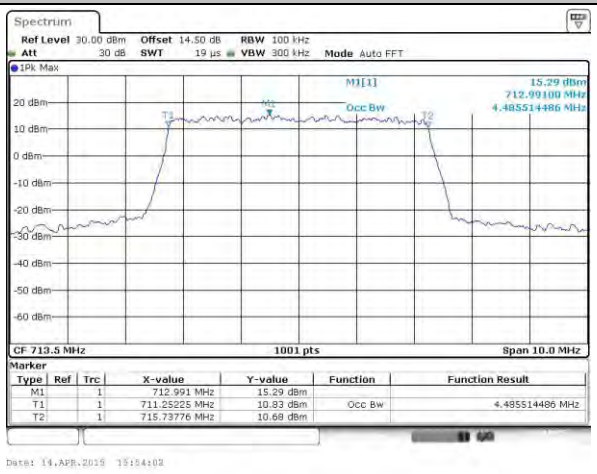

### Middle Channel / 5MHz / 16QAM




### Highest Channel / 5MHz / QPSK

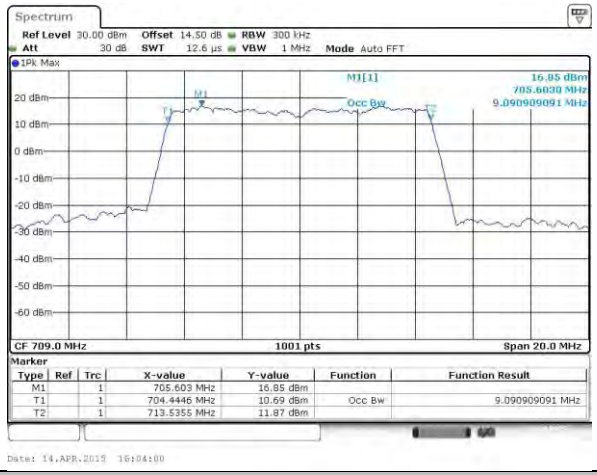



### Highest Channel / 5MHz / 16QAM

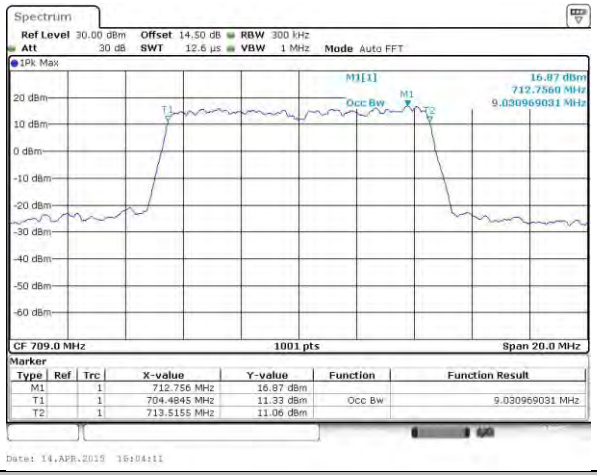


## LTE Band 17

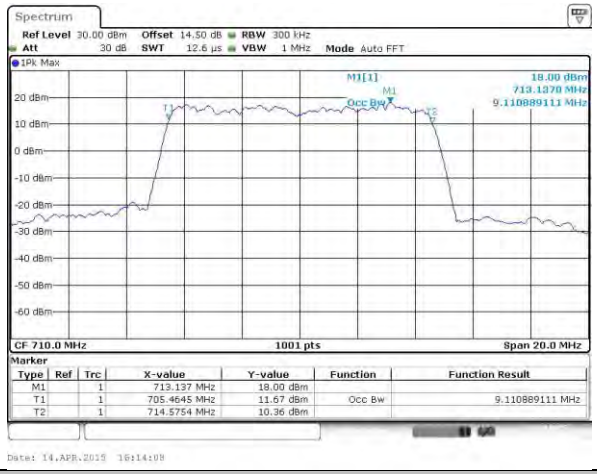
### Lowest Channel / 10MHz / QPSK



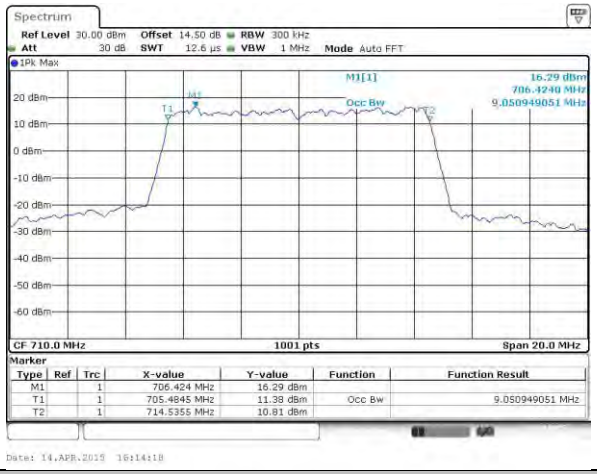

### Lowest Channel / 10MHz / 16QAM



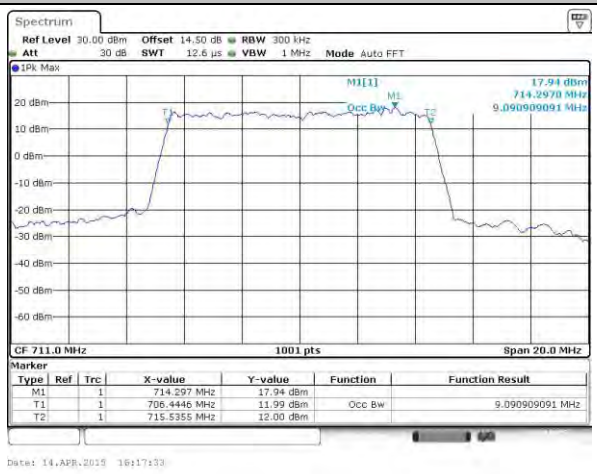

### Middle Channel / 10MHz / QPSK



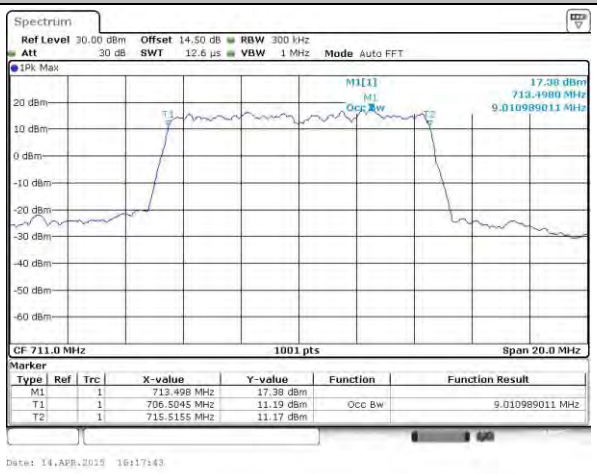

### Middle Channel / 10MHz / 16QAM




### Highest Channel / 10MHz / QPSK



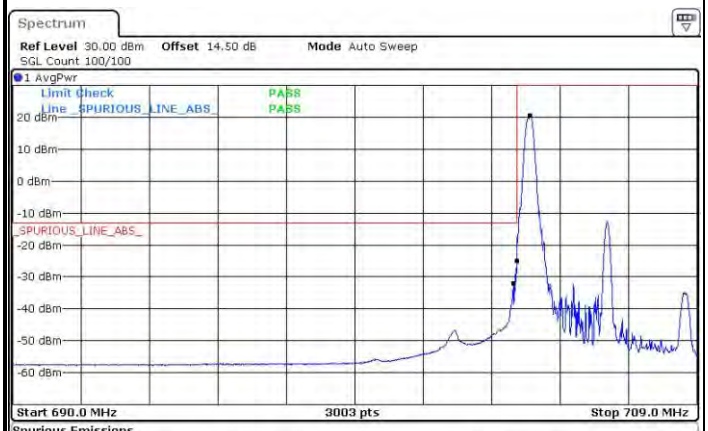

### Highest Channel / 10MHz / 16QAM



# Conducted Band Edge

## LTE Band 17 / 5MHz / QPSK

### Lowest Band Edge / 1 RB

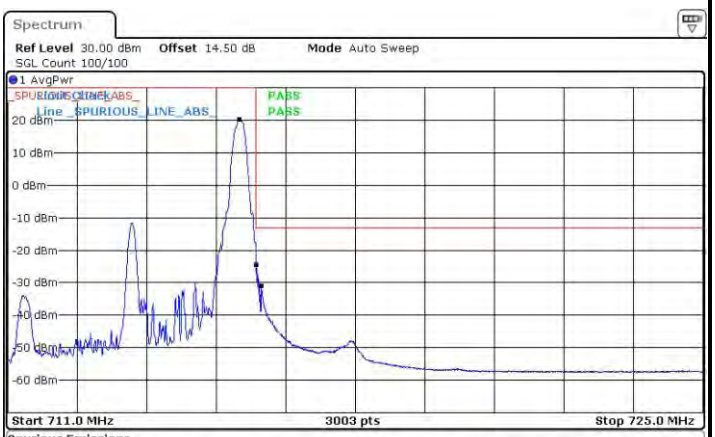



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 690.000 MHz | 703.900 MHz | 100.000 kHz | 703.89306 MHz | -32.12 dBm | -19.12 dB |
| 703.900 MHz | 704.000 MHz | 30.000 kHz | 703.99945 MHz | -24.92 dBm | -11.92 dB |
| 704.000 MHz | 709.000 MHz | 100.000 kHz | 704.35215 MHz | 20.57 dBm | -9.43 dB |

Date: 14.APR.2015 15:42:24

### Highest Band Edge / 1 RB

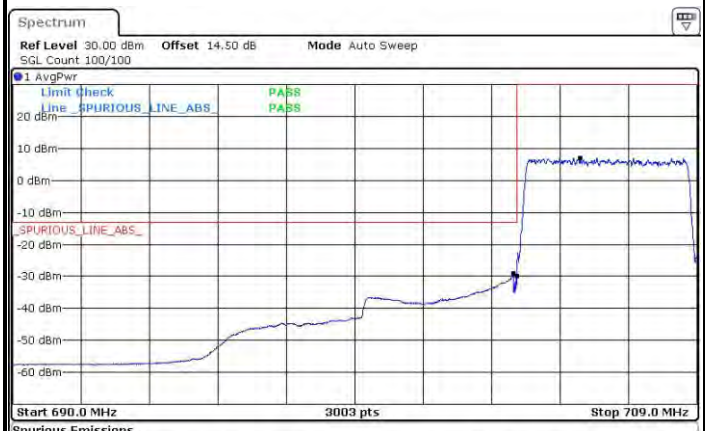



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 711.000 MHz | 716.000 MHz | 100.000 kHz | 715.65285 MHz | 20.21 dBm | -9.79 dB |
| 716.000 MHz | 716.100 MHz | 30.000 kHz | 716.00005 MHz | -24.47 dBm | -11.47 dB |
| 716.100 MHz | 725.000 MHz | 100.000 kHz | 716.10445 MHz | -31.03 dBm | -18.03 dB |

Date: 14.APR.2015 15:55:57

### Lowest Band Edge / Full RB

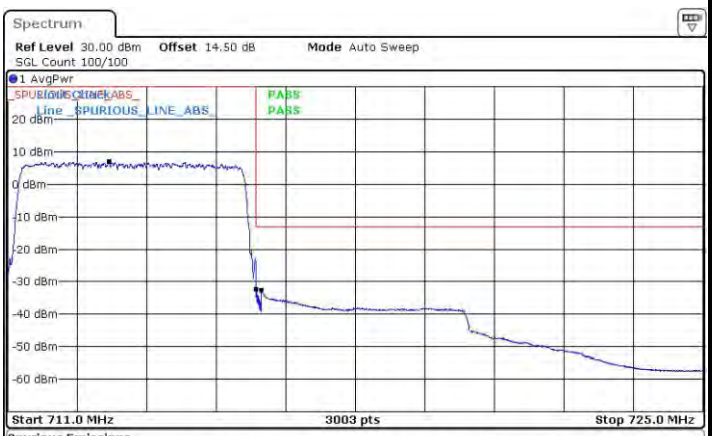



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 690.000 MHz | 703.900 MHz | 100.000 kHz | 703.89306 MHz | -29.21 dBm | -16.21 dB |
| 703.900 MHz | 704.000 MHz | 30.000 kHz | 703.99985 MHz | -29.90 dBm | -16.90 dB |
| 704.000 MHz | 709.000 MHz | 100.000 kHz | 705.76074 MHz | 6.91 dBm | -23.09 dB |

Date: 14.APR.2015 15:45:46

### Highest Band Edge / Full RB



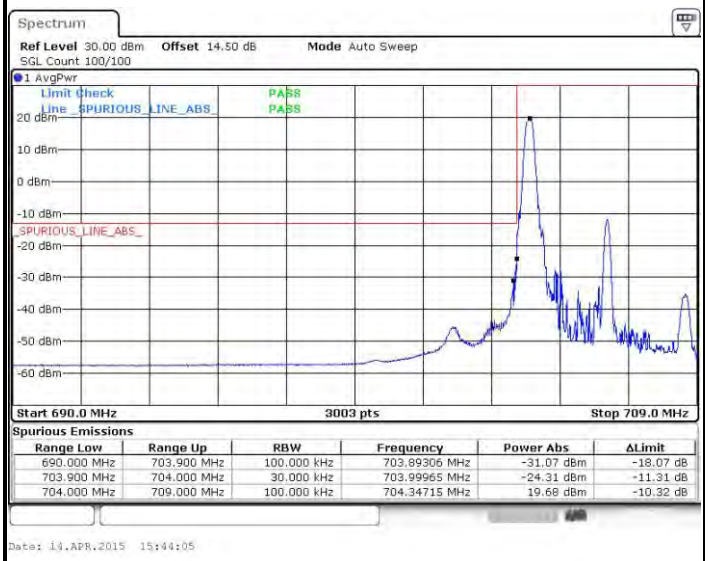

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 711.000 MHz | 716.000 MHz | 100.000 kHz | 713.03546 MHz | 6.86 dBm | -23.14 dB |
| 716.000 MHz | 716.100 MHz | 30.000 kHz | 716.00095 MHz | -32.33 dBm | -19.33 dB |
| 716.100 MHz | 725.000 MHz | 100.000 kHz | 716.10445 MHz | -32.68 dBm | -19.68 dB |

Date: 14.APR.2015 15:59:19

## LTE Band 17 / 5MHz / 16QAM

### Lowest Band Edge / 1 RB

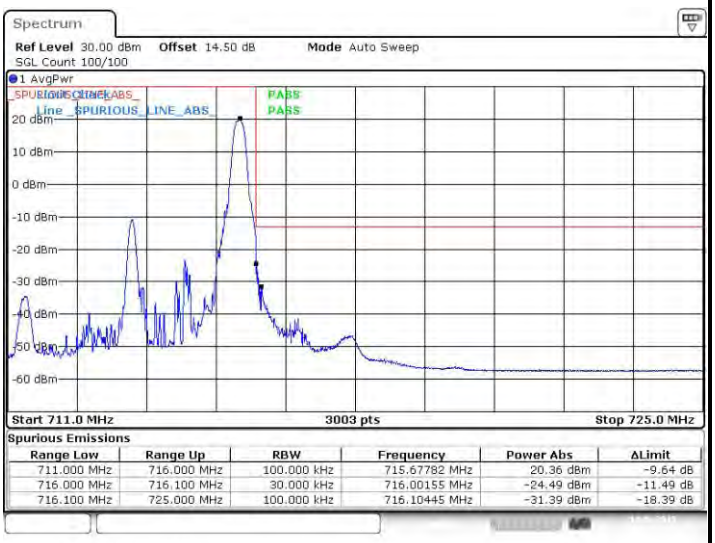



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 690.000 MHz | 703.900 MHz | 100.000 kHz | 703.89306 MHz | -31.07 dBm | -18.07 dB |
| 703.900 MHz | 704.000 MHz | 30.000 kHz | 703.99965 MHz | -24.31 dBm | -11.31 dB |
| 704.000 MHz | 709.000 MHz | 100.000 kHz | 704.34715 MHz | 19.68 dBm | -10.32 dB |

Date: 14.APR.2015 15:44:05

### Highest Band Edge / 1 RB

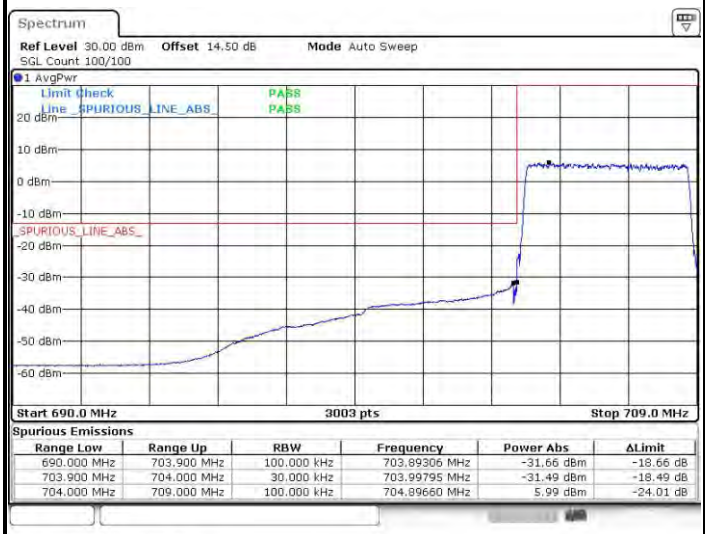



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 711.000 MHz | 716.000 MHz | 100.000 kHz | 715.67782 MHz | 20.36 dBm | -9.64 dB |
| 716.000 MHz | 716.100 MHz | 30.000 kHz | 716.00155 MHz | -24.49 dBm | -11.49 dB |
| 716.100 MHz | 725.000 MHz | 100.000 kHz | 716.10445 MHz | -31.39 dBm | -18.39 dB |

Date: 14.APR.2015 15:57:39

### Lowest Band Edge / Full RB

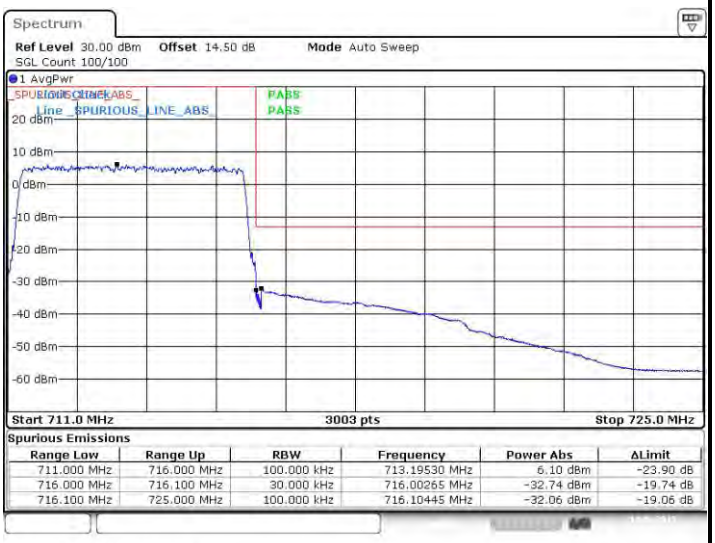



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 690.000 MHz | 703.900 MHz | 100.000 kHz | 703.89306 MHz | -31.66 dBm | -18.66 dB |
| 703.900 MHz | 704.000 MHz | 30.000 kHz | 703.99795 MHz | -31.49 dBm | -18.49 dB |
| 704.000 MHz | 709.000 MHz | 100.000 kHz | 704.89660 MHz | 5.99 dBm | -24.01 dB |

Date: 14.APR.2015 15:47:27

### Highest Band Edge / Full RB



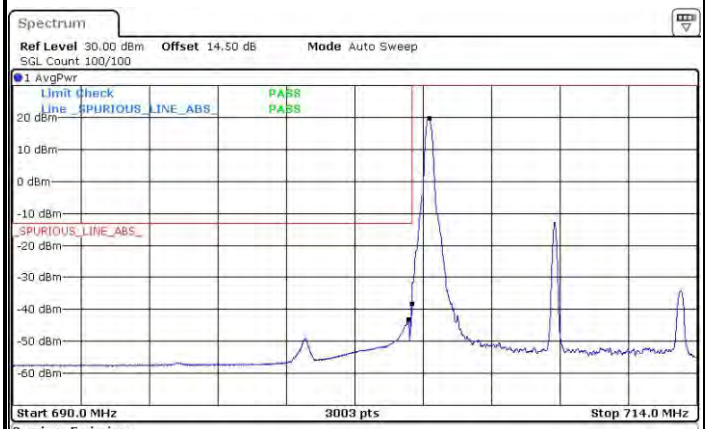

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 711.000 MHz | 716.000 MHz | 100.000 kHz | 713.19530 MHz | 6.10 dBm | -23.90 dB |
| 716.000 MHz | 716.100 MHz | 30.000 kHz | 716.00265 MHz | -32.74 dBm | -19.74 dB |
| 716.100 MHz | 725.000 MHz | 100.000 kHz | 716.10445 MHz | -32.06 dBm | -19.06 dB |

Date: 14.APR.2015 16:01:01

## LTE Band 17 / 10MHz / QPSK

### Lowest Band Edge / 1 RB

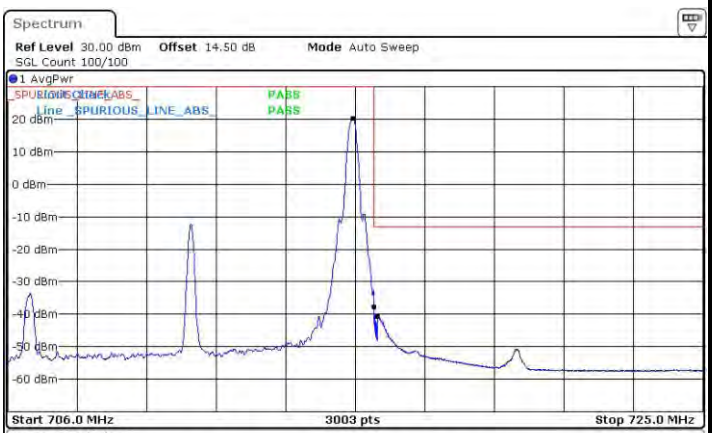



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 690.000 MHz | 703.900 MHz | 100.000 kHz | 703.89306 MHz | -43.27 dBm | -30.27 dB |
| 703.900 MHz | 704.000 MHz | 30.000 kHz | 703.99955 MHz | -38.39 dBm | -25.39 dB |
| 704.000 MHz | 714.000 MHz | 100.000 kHz | 704.60440 MHz | 19.76 dBm | -10.24 dB |

Date: 14.APR.2015 16:06:06

### Highest Band Edge / 1 RB

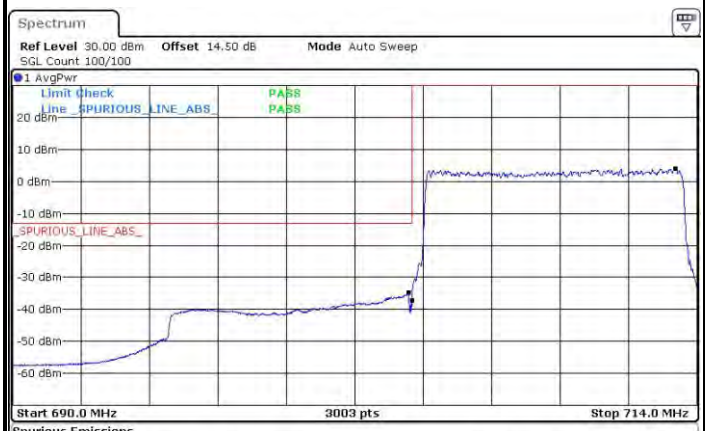



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 706.000 MHz | 716.000 MHz | 100.000 kHz | 715.43556 MHz | 20.18 dBm | -9.82 dB |
| 716.000 MHz | 716.100 MHz | 30.000 kHz | 716.00085 MHz | -37.75 dBm | -24.75 dB |
| 716.100 MHz | 725.000 MHz | 100.000 kHz | 716.10445 MHz | -40.66 dBm | -27.66 dB |

Date: 14.APR.2015 16:19:38

### Lowest Band Edge / Full RB

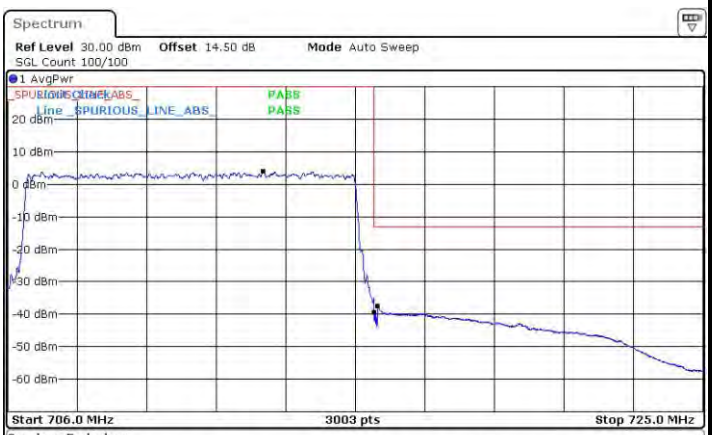



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 690.000 MHz | 703.900 MHz | 100.000 kHz | 703.89306 MHz | -34.78 dBm | -21.78 dB |
| 703.900 MHz | 704.000 MHz | 30.000 kHz | 703.99036 MHz | -37.11 dBm | -24.11 dB |
| 704.000 MHz | 714.000 MHz | 100.000 kHz | 713.24575 MHz | 4.04 dBm | -25.96 dB |

Date: 14.APR.2015 16:09:27

### Highest Band Edge / Full RB



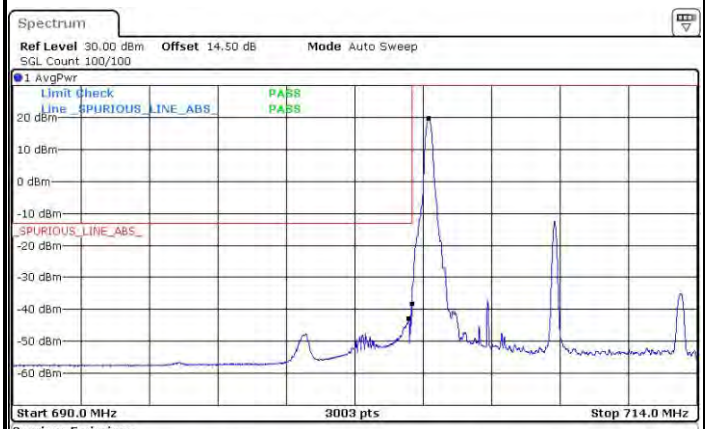

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 706.000 MHz | 716.000 MHz | 100.000 kHz | 712.97802 MHz | 4.10 dBm | -25.90 dB |
| 716.000 MHz | 716.100 MHz | 30.000 kHz | 716.01384 MHz | -39.31 dBm | -26.31 dB |
| 716.100 MHz | 725.000 MHz | 100.000 kHz | 716.10445 MHz | -37.59 dBm | -24.59 dB |

Date: 14.APR.2015 16:23:00

## LTE Band 17 / 10MHz / 16QAM

### Lowest Band Edge / 1 RB

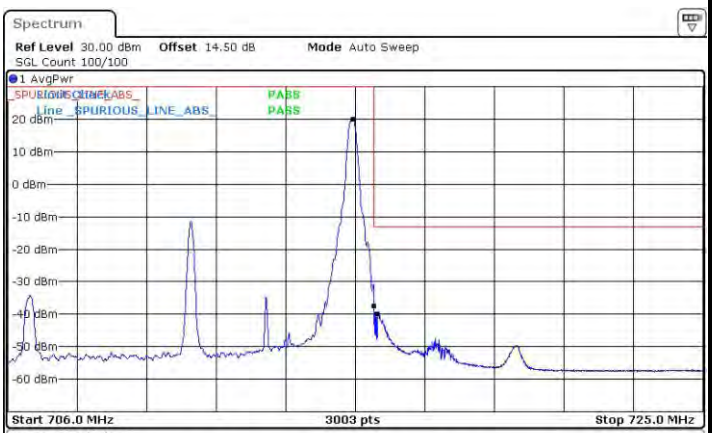



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 690.000 MHz | 703.900 MHz | 100.000 kHz | 703.89306 MHz | -43.01 dBm | -30.01 dB |
| 703.900 MHz | 704.000 MHz | 30.000 kHz | 703.99825 MHz | -38.18 dBm | -25.18 dB |
| 704.000 MHz | 714.000 MHz | 100.000 kHz | 704.59441 MHz | 19.62 dBm | -10.38 dB |

Date: 14.APR.2015 16:07:47

### Highest Band Edge / 1 RB

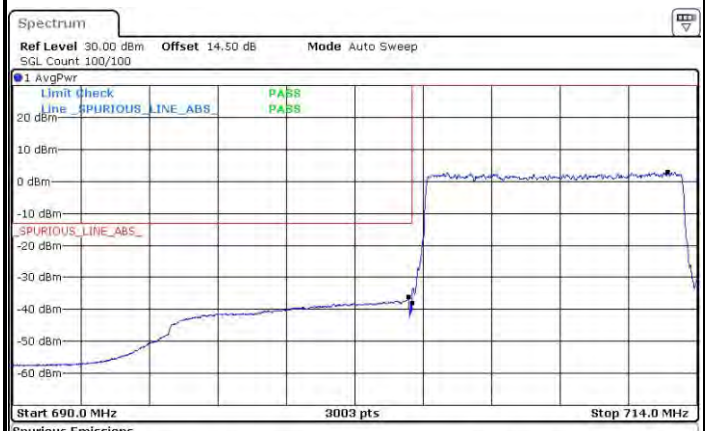



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 706.000 MHz | 716.000 MHz | 100.000 kHz | 715.43556 MHz | 19.89 dBm | -10.11 dB |
| 716.000 MHz | 716.100 MHz | 30.000 kHz | 716.00025 MHz | -37.45 dBm | -24.45 dB |
| 716.100 MHz | 725.000 MHz | 100.000 kHz | 716.10445 MHz | -39.92 dBm | -26.92 dB |

Date: 14.APR.2015 16:21:19

### Lowest Band Edge / Full RB

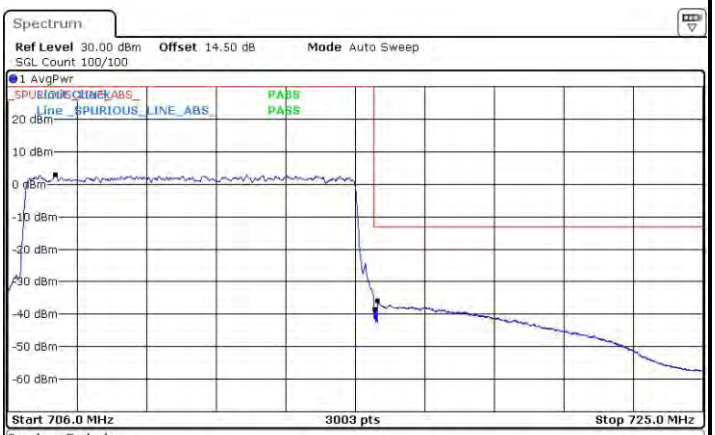



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 690.000 MHz | 703.900 MHz | 100.000 kHz | 703.89306 MHz | -35.99 dBm | -22.99 dB |
| 703.900 MHz | 704.000 MHz | 30.000 kHz | 703.99785 MHz | -38.11 dBm | -25.11 dB |
| 704.000 MHz | 714.000 MHz | 100.000 kHz | 712.97602 MHz | 2.89 dBm | -27.11 dB |

Date: 14.APR.2015 16:11:08

### Highest Band Edge / Full RB




Spurious Emissions

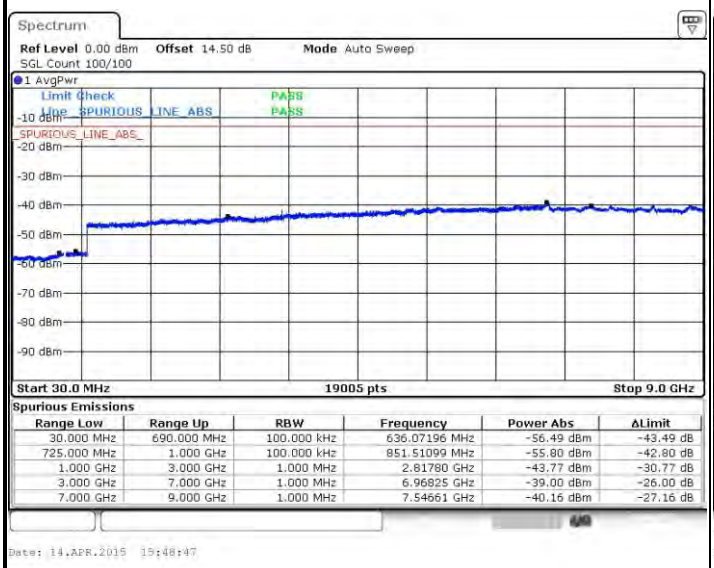
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 706.000 MHz | 716.000 MHz | 100.000 kHz | 707.30370 MHz | 2.96 dBm | -27.04 dB |
| 716.000 MHz | 716.100 MHz | 30.000 kHz | 716.02123 MHz | -38.47 dBm | -25.47 dB |
| 716.100 MHz | 725.000 MHz | 100.000 kHz | 716.10445 MHz | -35.96 dBm | -22.96 dB |

Date: 14.APR.2015 16:24:41

# Conducted Spurious Emission

## LTE Band 17 / 5MHz

### Lowest Channel / QPSK

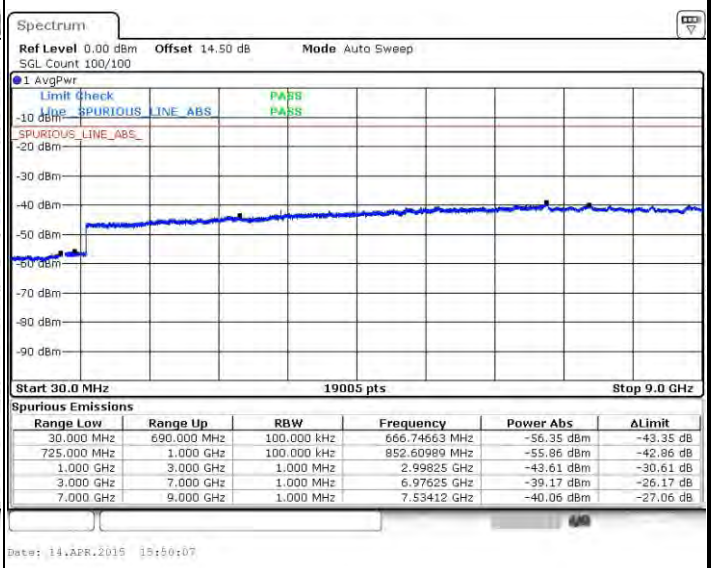



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 636.07196 MHz | -56.49 dBm | -43.49 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 851.51099 MHz | -55.80 dBm | -42.80 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.81780 GHz | -43.77 dBm | -30.77 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.96825 GHz | -39.00 dBm | -26.00 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.54651 GHz | -40.16 dBm | -27.16 dB |

Date: 14.APR.2015 15:48:47

### Lowest Channel / 16QAM

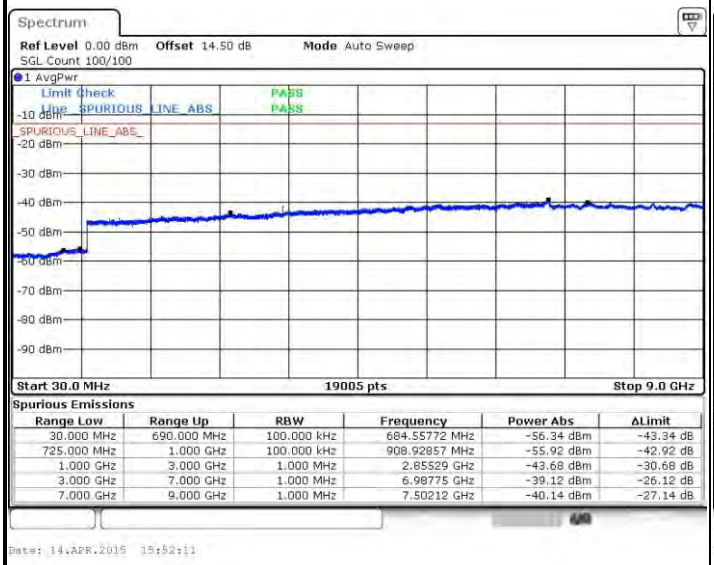



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 666.74663 MHz | -56.35 dBm | -43.35 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 852.60989 MHz | -55.86 dBm | -42.86 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99825 GHz | -43.61 dBm | -30.61 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.97625 GHz | -39.17 dBm | -26.17 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.53412 GHz | -40.06 dBm | -27.06 dB |

Date: 14.APR.2015 15:50:07

### Middle Channel / QPSK

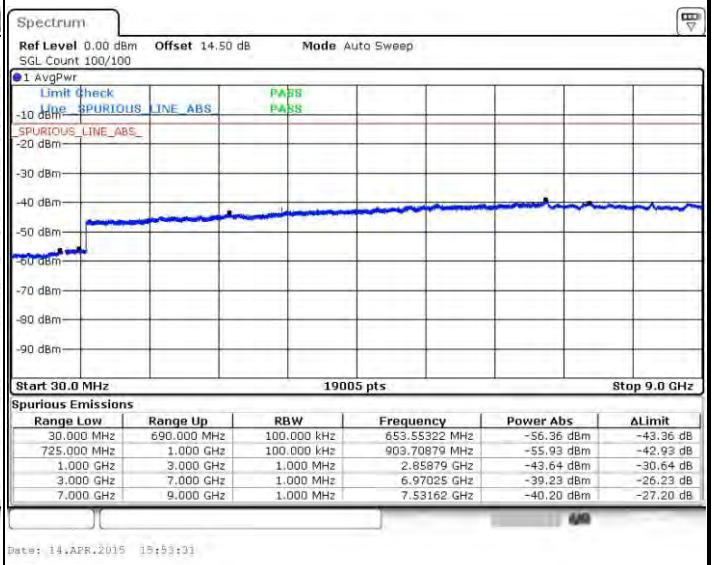



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 684.55772 MHz | -56.34 dBm | -43.34 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 908.92857 MHz | -55.92 dBm | -42.92 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.85529 GHz | -43.68 dBm | -30.68 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.98775 GHz | -39.12 dBm | -26.12 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.50212 GHz | -40.14 dBm | -27.14 dB |

Date: 14.APR.2015 15:52:11

### Middle Channel / 16QAM



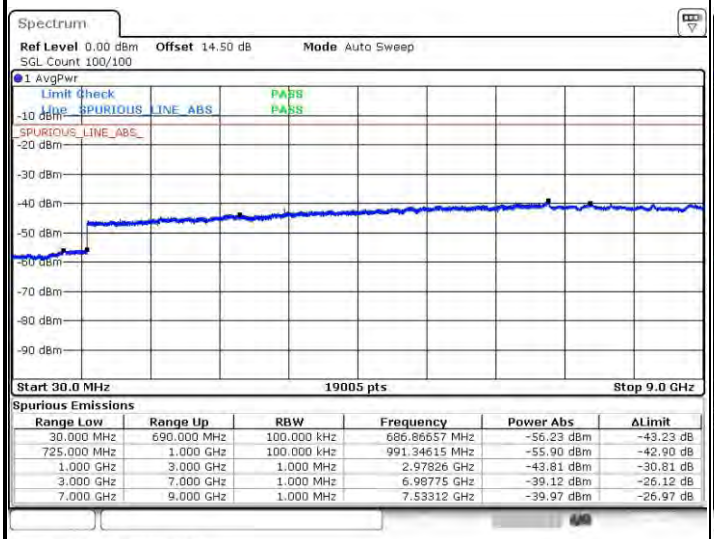

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 653.55322 MHz | -56.36 dBm | -43.36 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 903.70879 MHz | -55.93 dBm | -42.93 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.85879 GHz | -43.64 dBm | -30.64 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.97025 GHz | -39.23 dBm | -26.23 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.53162 GHz | -40.20 dBm | -27.20 dB |

Date: 14.APR.2015 15:53:31

## LTE Band 17 / 5MHz

### Highest Channel / QPSK

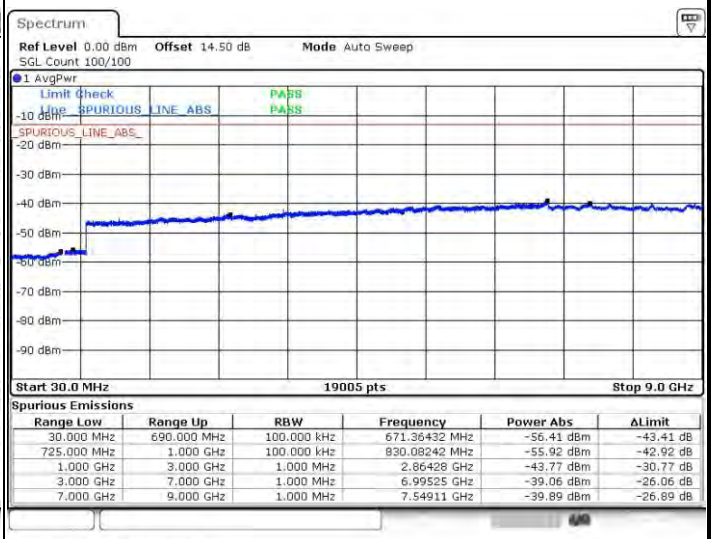



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 686.86657 MHz | -56.23 dBm | -43.23 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 991.34615 MHz | -55.90 dBm | -42.90 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.97826 GHz | -43.81 dBm | -30.81 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.98775 GHz | -39.12 dBm | -26.12 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.53312 GHz | -39.97 dBm | -26.97 dB |

Date: 14.APR.2015 16:02:19

### Highest Channel / 16QAM



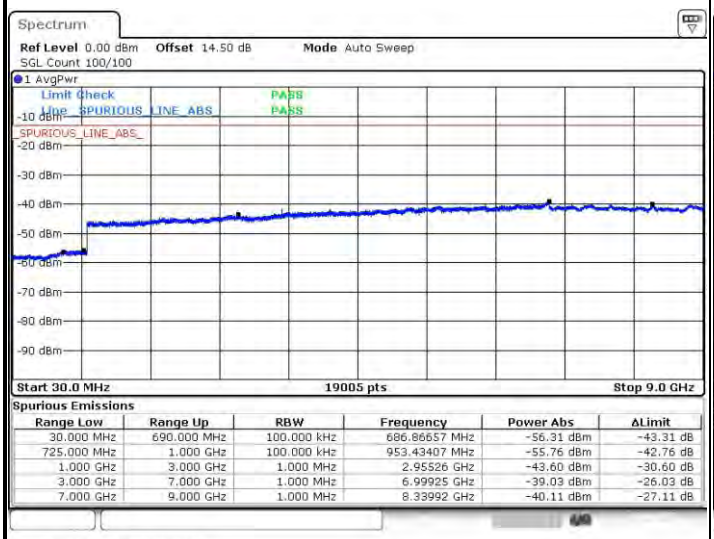

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 671.36432 MHz | -56.41 dBm | -43.41 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 830.08242 MHz | -55.92 dBm | -42.92 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.86428 GHz | -43.77 dBm | -30.77 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99525 GHz | -39.06 dBm | -26.06 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.54911 GHz | -39.89 dBm | -26.89 dB |

Date: 14.APR.2015 16:03:39

## LTE Band 17 / 10MHz

### Lowest Channel / QPSK

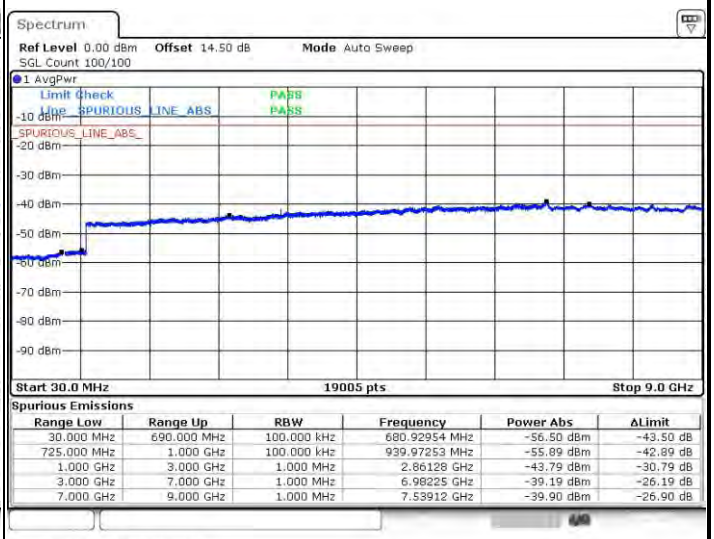



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 686.86657 MHz | -56.31 dBm | -43.31 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 953.43407 MHz | -55.76 dBm | -42.76 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.95526 GHz | -43.60 dBm | -30.60 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99925 GHz | -39.03 dBm | -26.03 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.33992 GHz | -40.11 dBm | -27.11 dB |

Date: 14.APR.2015 16:12:27

### Lowest Channel / 16QAM



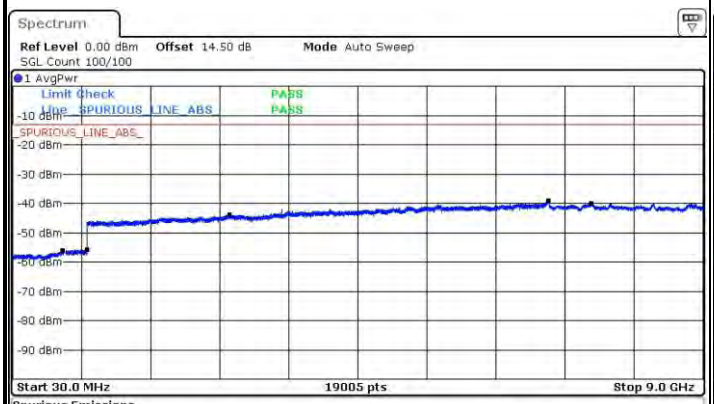

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 680.92954 MHz | -56.50 dBm | -43.50 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 939.97253 MHz | -55.89 dBm | -42.89 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.86128 GHz | -43.79 dBm | -30.79 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.98225 GHz | -39.19 dBm | -26.19 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.53912 GHz | -39.90 dBm | -26.90 dB |

Date: 14.APR.2015 16:13:47

## LTE Band 17 / 10MHz

### Middle Channel / QPSK

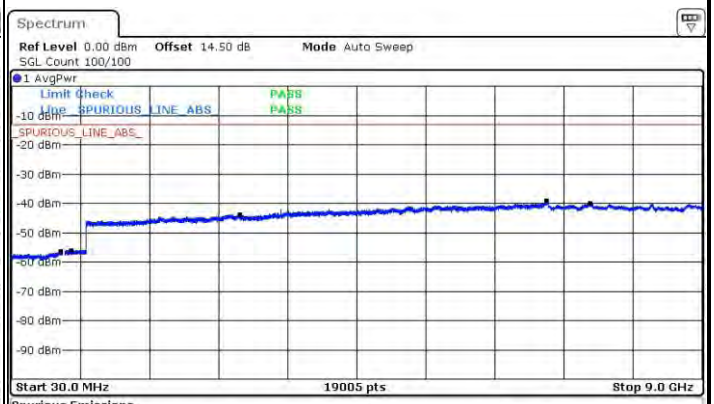



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 677.63118 MHz | -56.24 dBm | -43.24 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 992.44505 MHz | -55.91 dBm | -42.91 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.84429 GHz | -43.84 dBm | -30.84 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99425 GHz | -39.12 dBm | -26.12 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.54511 GHz | -40.09 dBm | -27.09 dB |

Date: 14.APR.2015 16:15:52

### Middle Channel / 16QAM

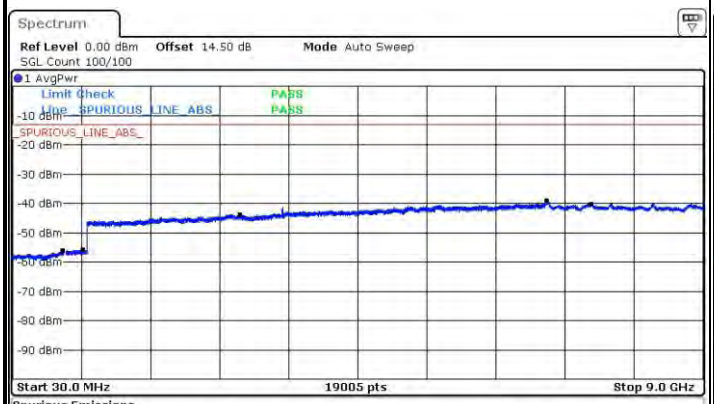



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 663.11844 MHz | -56.35 dBm | -43.35 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 798.21429 MHz | -56.01 dBm | -43.01 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99875 GHz | -43.84 dBm | -30.84 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.97325 GHz | -39.02 dBm | -26.02 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.54811 GHz | -39.99 dBm | -26.99 dB |

Date: 14.APR.2015 16:17:11

### Highest Channel / QPSK

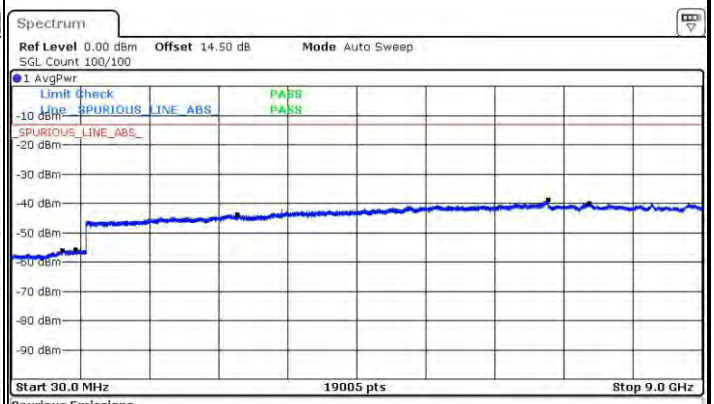



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 678.29085 MHz | -56.22 dBm | -43.22 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 938.87363 MHz | -55.78 dBm | -42.78 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.98025 GHz | -43.83 dBm | -30.83 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.97175 GHz | -39.08 dBm | -26.08 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.55211 GHz | -40.16 dBm | -27.16 dB |

Date: 14.APR.2015 16:26:00

### Highest Channel / 16QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 683.23838 MHz | -56.11 dBm | -43.11 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 856.45604 MHz | -55.85 dBm | -42.85 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.95676 GHz | -43.77 dBm | -30.77 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99775 GHz | -38.71 dBm | -25.71 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.53262 GHz | -40.11 dBm | -27.11 dB |

Date: 14.APR.2015 16:27:19

# Frequency Stability

| Test Conditions | | LTE Band 17 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0127 | PASS |
| 40 | Normal Voltage | 0.0155 | |
| 30 | Normal Voltage | 0.0028 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0014 | |
| 0 | Normal Voltage | 0.0042 | |
| -10 | Normal Voltage | 0.0014 | |
| -20 | Normal Voltage | 0.0127 | |
| -30 | Normal Voltage | 0.0113 | |
| 20 | Maximum Voltage | 0.0141 | |
| 20 | Normal Voltage | 0.0014 | |
| 20 | Battery End Point | 0.0014 | |

**Note:**

1. Normal Voltage = 3.8V. ；Battery End Point (BEP) = 3.5V.；Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

# Appendix B. Test Results of Radiated Test

## ERP/EIRP

| LTE Band 4 / 1.4MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 5 | 16.89 | 0.0489 | 13.00 | 0.0200 |
| Middle | | 3 | 0 | 17.24 | 0.0530 | 13.08 | 0.0203 |
| Highest | | 3 | 0 | 17.60 | 0.0575 | 13.17 | 0.0207 |
| Lowest | 16QAM | 3 | 1 | 16.06 | 0.0404 | 12.10 | 0.0162 |
| Middle | | 3 | 1 | 16.14 | 0.0411 | 11.97 | 0.0157 |
| Highest | | 3 | 1 | 16.57 | 0.0454 | 12.19 | 0.0166 |
| Limit | EIRP < 1W | | | Result | | PASS | |

| LTE Band 4 / 3MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 14 | 16.60 | 0.0457 | 12.67 | 0.0185 |
| Middle | | 1 | 14 | 17.25 | 0.0531 | 13.09 | 0.0204 |
| Highest | | 1 | 14 | 17.55 | 0.0569 | 13.29 | 0.0213 |
| Lowest | 16QAM | 1 | 14 | 15.64 | 0.0366 | 11.63 | 0.0146 |
| Middle | | 1 | 7 | 16.22 | 0.0419 | 11.96 | 0.0157 |
| Highest | | 1 | 14 | 16.74 | 0.0472 | 12.27 | 0.0169 |
| Limit | EIRP < 1W | | | Result | | PASS | |

| LTE Band 4 / 5MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 12 | 16.53 | 0.0450 | 12.48 | 0.0177 |
| Middle | | 1 | 12 | 17.20 | 0.0525 | 12.98 | 0.0199 |
| Highest | | 1 | 12 | 17.65 | 0.0582 | 13.11 | 0.0205 |
| Lowest | 16QAM | 1 | 12 | 15.66 | 0.0368 | 11.51 | 0.0142 |
| Middle | | 1 | 0 | 16.21 | 0.0418 | 11.93 | 0.0156 |
| Highest | | 1 | 0 | 16.78 | 0.0476 | 12.42 | 0.0175 |
| Limit | EIRP < 1W | | | Result | | PASS | |

| LTE Band 4/ 10MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 0 | 16.57 | 0.0454 | 12.63 | 0.0183 |
| Middle | | 1 | 0 | 17.12 | 0.0515 | 12.96 | 0.0198 |
| Highest | | 1 | 24 | 17.64 | 0.0581 | 13.22 | 0.0210 |
| Lowest | 16QAM | 1 | 0 | 15.64 | 0.0366 | 11.88 | 0.0154 |
| Middle | | 1 | 49 | 16.17 | 0.0414 | 12.22 | 0.0167 |
| Highest | | 1 | 24 | 16.66 | 0.0463 | 12.64 | 0.0184 |
| Limit | EIRP < 1W | | | Result | | PASS | |

| LTE Band 4 / 15MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 37 | 16.83 | 0.0482 | 13.05 | 0.0202 |
| Middle | | 1 | 0 | 17.19 | 0.0524 | 13.31 | 0.0214 |
| Highest | | 1 | 37 | 17.55 | 0.0569 | 13.35 | 0.0216 |
| Lowest | 16QAM | 1 | 37 | 15.86 | 0.0385 | 12.19 | 0.0166 |
| Middle | | 1 | 0 | 16.13 | 0.0410 | 12.22 | 0.0167 |
| Highest | | 1 | 0 | 16.41 | 0.0438 | 12.30 | 0.0170 |
| Limit | EIRP < 1W | | | Result | | PASS | |

| LTE Band 4 / 20MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 0 | 16.55 | 0.0452 | 12.87 | 0.0194 |
| Middle | | 1 | 0 | 16.87 | 0.0486 | 13.17 | 0.0207 |
| Highest | | 1 | 0 | 17.16 | 0.0520 | 13.12 | 0.0205 |
| Lowest | 16QAM | 1 | 0 | 15.59 | 0.0362 | 11.84 | 0.0153 |
| Middle | | 1 | 0 | 15.90 | 0.0389 | 12.18 | 0.0165 |
| Highest | | 1 | 0 | 16.21 | 0.0418 | 12.22 | 0.0167 |
| Limit | EIRP < 1W | | | Result | | PASS | |

| LTE Band 7 / 5MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 0 | 15.27 | 0.0337 | 9.08 | 0.0081 |
| Middle | | 1 | 0 | 15.33 | 0.0341 | 9.15 | 0.0082 |
| Highest | | 1 | 24 | 15.52 | 0.0356 | 9.99 | 0.0100 |
| Lowest | 16QAM | 1 | 12 | 14.17 | 0.0261 | 7.96 | 0.0063 |
| Middle | | 1 | 24 | 14.41 | 0.0276 | 8.10 | 0.0065 |
| Highest | | 1 | 0 | 14.48 | 0.0281 | 8.83 | 0.0076 |
| Limit | EIRP < 2W | | | Result | | PASS | |

| LTE Band 7 / 10MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 49 | 15.14 | 0.0327 | 8.70 | 0.0074 |
| Middle | | 1 | 49 | 15.33 | 0.0341 | 9.06 | 0.0081 |
| Highest | | 1 | 49 | 15.54 | 0.0358 | 9.95 | 0.0099 |
| Lowest | 16QAM | 1 | 24 | 14.08 | 0.0256 | 7.86 | 0.0061 |
| Middle | | 1 | 24 | 14.33 | 0.0271 | 8.02 | 0.0063 |
| Highest | | 1 | 24 | 14.31 | 0.0270 | 8.98 | 0.0079 |
| Limit | EIRP < 2W | | | Result | | PASS | |

| LTE Band 7 / 15MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 74 | 15.13 | 0.0326 | 8.77 | 0.0075 |
| Middle | | 1 | 74 | 15.37 | 0.0344 | 9.26 | 0.0084 |
| Highest | | 1 | 0 | 15.46 | 0.0352 | 9.52 | 0.0090 |
| Lowest | 16QAM | 1 | 37 | 14.15 | 0.0260 | 7.97 | 0.0063 |
| Middle | | 1 | 74 | 14.34 | 0.0272 | 8.20 | 0.0066 |
| Highest | | 1 | 74 | 14.38 | 0.0274 | 8.95 | 0.0079 |
| Limit | EIRP < 2W | | | Result | | PASS | |

| LTE Band 7 / 20MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 99 | 14.99 | 0.0316 | 8.48 | 0.0070 |
| Middle | | 1 | 99 | 15.42 | 0.0348 | 9.00 | 0.0079 |
| Highest | | 1 | 99 | 15.42 | 0.0348 | 9.98 | 0.0100 |
| Lowest | 16QAM | 1 | 0 | 14.23 | 0.0265 | 8.06 | 0.0064 |
| Middle | | 1 | 49 | 14.41 | 0.0276 | 8.13 | 0.0065 |
| Highest | | 1 | 99 | 14.44 | 0.0278 | 8.98 | 0.0079 |
| Limit | EIRP < 2W | | | Result | | PASS | |

| LTE Band 17 / 5MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | ERP(dBm) | ERP(W) | ERP(dBm) | ERP(W) |
| Lowest | QPSK | 1 | 0 | 13.65 | 0.0232 | 2.92 | 0.0020 |
| Middle | | 1 | 24 | 13.97 | 0.0249 | 3.18 | 0.0021 |
| Highest | | 1 | 12 | 13.95 | 0.0248 | 3.15 | 0.0021 |
| Lowest | 16QAM | 1 | 0 | 12.63 | 0.0183 | 2.07 | 0.0016 |
| Middle | | 1 | 24 | 12.88 | 0.0194 | 2.20 | 0.0017 |
| Highest | | 1 | 24 | 13.17 | 0.0207 | 2.32 | 0.0017 |
| Limit | ERP < 3W | | | Result | | PASS | |

| LTE Band 17 / 10MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | ERP(dBm) | ERP(W) | ERP(dBm) | ERP(W) |
| Lowest | QPSK | 1 | 49 | 13.85 | 0.0243 | 3.11 | 0.0020 |
| Middle | | 1 | 49 | 13.84 | 0.0242 | 3.16 | 0.0021 |
| Highest | | 1 | 49 | 14.08 | 0.0256 | 3.36 | 0.0022 |
| Lowest | 16QAM | 1 | 49 | 12.88 | 0.0194 | 2.30 | 0.0017 |
| Middle | | 1 | 49 | 12.88 | 0.0194 | 2.21 | 0.0017 |
| Highest | | 1 | 49 | 13.08 | 0.0203 | 2.25 | 0.0017 |
| Limit | ERP < 3W | | | Result | | PASS | |

# Radiated Spurious Emission

| LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3420.32 | -47.20 | -13 | -34.20 | -59.00 | -58.99 | 0.81 | 12.60 | H |
| | 5130.48 | -46.27 | -13 | -33.27 | -62.14 | -58.02 | 0.95 | 12.70 | H |
| | 6840.64 | -51.34 | -13 | -38.34 | -67.97 | -61.91 | 1.13 | 11.70 | H |
| | 3420.32 | -49.82 | -13 | -36.82 | -60.05 | -61.61 | 0.81 | 12.6 | V |
| | 5130.48 | -55.61 | -13 | -42.61 | -68.21 | -67.36 | 0.95 | 12.7 | V |
| | 6840.64 | -49.70 | -13 | -36.70 | -66.88 | -60.27 | 1.13 | 11.7 | V |
| Middle | 3463.74 | -49.98 | -13 | -36.98 | -61.78 | -61.77 | 0.81 | 12.60 | H |
| | 5195.61 | -51.16 | -13 | -38.16 | -67.03 | -62.91 | 0.95 | 12.70 | H |
| | 6927.48 | -50.81 | -13 | -37.81 | -67.44 | -61.38 | 1.13 | 11.70 | H |
| | 3463.74 | -51.74 | -13 | -38.74 | -61.97 | -63.53 | 0.81 | 12.6 | V |
| | 5195.61 | -55.54 | -13 | -42.54 | -68.14 | -67.29 | 0.95 | 12.7 | V |
| | 6927.48 | -50.28 | -13 | -37.28 | -67.46 | -60.85 | 1.13 | 11.7 | V |
| Highest | 3507.52 | -47.88 | -13 | -34.88 | -59.68 | -59.67 | 0.81 | 12.60 | H |
| | 5261.28 | -38.26 | -13 | -25.26 | -54.13 | -50.01 | 0.95 | 12.70 | H |
| | 7015.04 | -45.46 | -13 | -32.46 | -62.09 | -56.03 | 1.13 | 11.70 | H |
| | 3507.52 | -50.39 | -13 | -37.39 | -60.62 | -62.18 | 0.81 | 12.6 | V |
| | 5261.28 | -51.73 | -13 | -38.73 | -64.33 | -63.48 | 0.95 | 12.7 | V |
| | 7015.04 | -49.44 | -13 | -36.44 | -66.62 | -60.01 | 1.13 | 11.7 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3420.48 | -47.51 | -13 | -34.51 | -59.31 | -59.30 | 0.81 | 12.60 | H |
| | 5130.72 | -48.90 | -13 | -35.90 | -64.77 | -60.65 | 0.95 | 12.70 | H |
| | 6840.96 | -50.45 | -13 | -37.45 | -67.08 | -61.02 | 1.13 | 11.70 | H |
| | 3420.48 | -49.71 | -13 | -36.71 | -59.94 | -61.50 | 0.81 | 12.6 | V |
| | 5130.72 | -55.45 | -13 | -42.45 | -68.05 | -67.20 | 0.95 | 12.7 | V |
| | 6840.96 | -50.39 | -13 | -37.39 | -67.57 | -60.96 | 1.13 | 11.7 | V |
| Middle | 3462.3 | -54.54 | -13 | -41.54 | -66.34 | -66.33 | 0.81 | 12.60 | H |
| | 5193.45 | -45.60 | -13 | -32.60 | -61.47 | -57.35 | 0.95 | 12.70 | H |
| | 6924.6 | -51.54 | -13 | -38.54 | -68.17 | -62.11 | 1.13 | 11.70 | H |
| | 3462.3 | -56.27 | -13 | -43.27 | -66.5 | -68.06 | 0.81 | 12.6 | V |
| | 5193.45 | -55.49 | -13 | -42.49 | -68.09 | -67.24 | 0.95 | 12.7 | V |
| | 6924.6 | -50.98 | -13 | -37.98 | -68.16 | -61.55 | 1.13 | 11.7 | V |
| Highest | 3504.48 | -46.66 | -13 | -33.66 | -58.46 | -58.45 | 0.81 | 12.60 | H |
| | 5256.72 | -46.60 | -13 | -33.60 | -62.47 | -58.35 | 0.95 | 12.70 | H |
| | 7008.96 | -47.60 | -13 | -34.60 | -64.23 | -58.17 | 1.13 | 11.70 | H |
| | 3504.48 | -50.30 | -13 | -37.30 | -60.53 | -62.09 | 0.81 | 12.6 | V |
| | 5256.72 | -53.28 | -13 | -40.28 | -65.88 | -65.03 | 0.95 | 12.7 | V |
| | 7008.96 | -48.27 | -13 | -35.27 | -65.45 | -58.84 | 1.13 | 11.7 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3420.68 | -51.24 | -13 | -38.24 | -63.04 | -63.03 | 0.81 | 12.60 | H |
| | 5131.02 | -35.16 | -13 | -22.16 | -51.85 | -46.91 | 0.95 | 12.70 | H |
| | 6841.36 | -50.56 | -13 | -37.56 | -67.19 | -61.13 | 1.13 | 11.70 | H |
| | 3420.68 | -52.39 | -13 | -39.39 | -62.62 | -64.18 | 0.81 | 12.6 | V |
| | 5131.02 | -34.91 | -13 | -21.91 | -51.77 | -46.66 | 0.95 | 12.7 | V |
| | 6841.36 | -50.93 | -13 | -37.93 | -68.11 | -61.50 | 1.13 | 11.7 | V |
| Middle | 3460.68 | -52.38 | -13 | -39.38 | -64.18 | -64.17 | 0.81 | 12.60 | H |
| | 5191.02 | -41.69 | -13 | -28.69 | -57.56 | -53.44 | 0.95 | 12.70 | H |
| | 6921.36 | -50.65 | -13 | -37.65 | -67.28 | -61.22 | 1.13 | 11.70 | H |
| | 3460.68 | -54.59 | -13 | -41.59 | -64.82 | -66.38 | 0.81 | 12.6 | V |
| | 5191.02 | -35.06 | -13 | -22.06 | -51.9 | -46.81 | 0.95 | 12.7 | V |
| | 6921.36 | -50.24 | -13 | -37.24 | -67.42 | -60.81 | 1.13 | 11.7 | V |
| Highest | 3500.68 | -52.38 | -13 | -39.38 | -64.18 | -64.17 | 0.81 | 12.60 | H |
| | 5251.02 | -39.45 | -13 | -26.45 | -55.32 | -51.20 | 0.95 | 12.70 | H |
| | 7001.36 | -48.69 | -13 | -35.69 | -65.32 | -59.26 | 1.13 | 11.70 | H |
| | 3500.68 | -53.17 | -13 | -40.17 | -63.4 | -64.96 | 0.81 | 12.6 | V |
| | 5251.02 | -42.65 | -13 | -29.65 | -55.25 | -54.40 | 0.95 | 12.7 | V |
| | 7001.36 | -49.21 | -13 | -36.21 | -66.39 | -59.78 | 1.13 | 11.7 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3421.18 | -49.22 | -13 | -36.22 | -61.02 | -61.01 | 0.81 | 12.60 | H |
| | 5131.77 | -39.78 | -13 | -26.78 | -55.65 | -51.53 | 0.95 | 12.70 | H |
| | 6842.36 | -51.03 | -13 | -38.03 | -67.66 | -61.60 | 1.13 | 11.70 | H |
| | 3421.18 | -52.88 | -13 | -39.88 | -63.11 | -64.67 | 0.81 | 12.6 | V |
| | 5131.77 | -41.37 | -13 | -28.37 | -56.66 | -53.12 | 0.95 | 12.7 | V |
| | 6842.36 | -50.58 | -13 | -37.58 | -67.76 | -61.15 | 1.13 | 11.7 | V |
| Middle | 3456.18 | -51.36 | -13 | -38.36 | -63.16 | -63.15 | 0.81 | 12.60 | H |
| | 5184.27 | -38.93 | -13 | -25.93 | -54.80 | -50.68 | 0.95 | 12.70 | H |
| | 6912.36 | -51.20 | -13 | -38.20 | -67.83 | -61.77 | 1.13 | 11.70 | H |
| | 3456.18 | -53.24 | -13 | -40.24 | -63.47 | -65.03 | 0.81 | 12.6 | V |
| | 5184.27 | -40.00 | -13 | -27.00 | -56.33 | -51.75 | 0.95 | 12.7 | V |
| | 6912.36 | -49.89 | -13 | -36.89 | -67.07 | -60.46 | 1.13 | 11.7 | V |
| Highest | 3491.18 | -50.14 | -13 | -37.14 | -61.94 | -61.93 | 0.81 | 12.60 | H |
| | 5236.77 | -40.55 | -13 | -27.55 | -56.42 | -52.30 | 0.95 | 12.70 | H |
| | 6982.36 | -48.74 | -13 | -35.74 | -65.37 | -59.31 | 1.13 | 11.70 | H |
| | 3491.18 | -52.52 | -13 | -39.52 | -62.75 | -64.31 | 0.81 | 12.6 | V |
| | 5236.77 | -41.44 | -13 | -28.44 | -56.72 | -53.19 | 0.95 | 12.7 | V |
| | 6982.36 | -49.58 | -13 | -36.58 | -66.76 | -60.15 | 1.13 | 11.7 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3421.68 | -44.41 | -13 | -31.41 | -56.21 | -56.20 | 0.81 | 12.60 | H |
| | 5132.52 | -39.43 | -13 | -26.43 | -55.30 | -51.18 | 0.95 | 12.70 | H |
| | 6843.36 | -50.66 | -13 | -37.66 | -67.29 | -61.23 | 1.13 | 11.70 | H |
| | 3421.68 | -47.53 | -13 | -34.53 | -57.76 | -59.32 | 0.81 | 12.6 | V |
| | 5132.52 | -37.87 | -13 | -24.87 | -54.45 | -49.62 | 0.95 | 12.7 | V |
| | 6843.36 | -50.61 | -13 | -37.61 | -67.79 | -61.18 | 1.13 | 11.7 | V |
| Middle | 3451.68 | -50.61 | -13 | -37.61 | -62.41 | -62.40 | 0.81 | 12.60 | H |
| | 5177.52 | -52.76 | -13 | -39.76 | -68.63 | -64.51 | 0.95 | 12.70 | H |
| | 6903.36 | -51.51 | -13 | -38.51 | -68.14 | -62.08 | 1.13 | 11.70 | H |
| | 3451.68 | -51.59 | -13 | -38.59 | -61.82 | -63.38 | 0.81 | 12.6 | V |
| | 5177.52 | -56.36 | -13 | -43.36 | -68.96 | -68.11 | 0.95 | 12.7 | V |
| | 6903.36 | -51.42 | -13 | -38.42 | -68.6 | -61.99 | 1.13 | 11.7 | V |
| Highest | 3481.68 | -46.17 | -13 | -33.17 | -57.97 | -57.96 | 0.81 | 12.60 | H |
| | 5222.52 | -36.88 | -13 | -23.88 | -53.08 | -48.63 | 0.95 | 12.70 | H |
| | 6963.36 | -47.44 | -13 | -34.44 | -64.07 | -58.01 | 1.13 | 11.70 | H |
| | 3481.68 | -48.04 | -13 | -35.04 | -58.27 | -59.83 | 0.81 | 12.6 | V |
| | 5222.52 | -40.83 | -13 | -27.83 | -56.28 | -52.58 | 0.95 | 12.7 | V |
| | 6963.36 | -49.23 | -13 | -36.23 | -66.41 | -59.80 | 1.13 | 11.7 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3422.18 | -47.33 | -13 | -34.33 | -59.13 | -59.12 | 0.81 | 12.60 | H |
| | 5133.27 | -43.60 | -13 | -30.60 | -59.47 | -55.35 | 0.95 | 12.70 | H |
| | 6844.36 | -50.72 | -13 | -37.72 | -67.35 | -61.29 | 1.13 | 11.70 | H |
| | 3422.18 | -48.44 | -13 | -35.44 | -58.67 | -60.23 | 0.81 | 12.6 | V |
| | 5133.27 | -54.99 | -13 | -41.99 | -67.59 | -66.74 | 0.95 | 12.7 | V |
| | 6844.36 | -50.84 | -13 | -37.84 | -68.02 | -61.41 | 1.13 | 11.7 | V |
| Middle | 3447.18 | -49.45 | -13 | -36.45 | -61.25 | -61.24 | 0.81 | 12.60 | H |
| | 5170.77 | -39.43 | -13 | -26.43 | -55.30 | -51.18 | 0.95 | 12.70 | H |
| | 6894.36 | -51.39 | -13 | -38.39 | -68.02 | -61.96 | 1.13 | 11.70 | H |
| | 3447.18 | -51.62 | -13 | -38.62 | -61.85 | -63.41 | 0.81 | 12.6 | V |
| | 5170.77 | -38.21 | -13 | -25.21 | -54.67 | -49.96 | 0.95 | 12.7 | V |
| | 6894.36 | -50.46 | -13 | -37.46 | -67.64 | -61.03 | 1.13 | 11.7 | V |
| Highest | 3472.18 | -48.60 | -13 | -35.60 | -60.40 | -60.39 | 0.81 | 12.60 | H |
| | 5208.27 | -47.77 | -13 | -34.77 | -63.64 | -59.52 | 0.95 | 12.70 | H |
| | 6944.36 | -47.09 | -13 | -34.09 | -63.72 | -57.66 | 1.13 | 11.70 | H |
| | 3472.18 | -51.57 | -13 | -38.57 | -61.8 | -63.36 | 0.81 | 12.6 | V |
| | 5208.27 | -51.79 | -13 | -38.79 | -64.39 | -63.54 | 0.95 | 12.7 | V |
| | 6944.36 | -49.50 | -13 | -36.50 | -66.68 | -60.07 | 1.13 | 11.7 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 5000.68 | -51.14 | -25 | -26.14 | -66.02 | -62.89 | 0.95 | 12.70 | H |
| | 7501.02 | -46.22 | -25 | -21.22 | -67.31 | -56.46 | 1.46 | 11.70 | H |
| | 10001.36 | -45.11 | -25 | -20.11 | -70.29 | -55.90 | 1.31 | 12.10 | H |
| | 5000.68 | -50.68 | -25 | -25.68 | -65.81 | -62.4256 | 0.95 | 12.70 | V |
| | 7501.02 | -39.72 | -25 | -14.72 | -60.47 | -49.9556 | 1.46 | 11.70 | V |
| | 10001.36 | -46.92 | -25 | -21.92 | -69.78 | -57.7056 | 1.31 | 12.10 | V |
| Middle | 5065.68 | -52.21 | -25 | -27.21 | -67.09 | -63.96 | 0.95 | 12.70 | H |
| | 7598.52 | -45.37 | -25 | -20.37 | -66.46 | -55.61 | 1.46 | 11.70 | H |
| | 10131.36 | -45.25 | -25 | -20.25 | -70.43 | -56.04 | 1.31 | 12.10 | H |
| | 5065.68 | -51.52 | -25 | -26.52 | -66.65 | -63.2656 | 0.95 | 12.70 | V |
| | 7598.52 | -35.09 | -25 | -10.09 | -55.84 | -45.3256 | 1.46 | 11.70 | V |
| | 10131.36 | -47.69 | -25 | -22.69 | -70.55 | -58.4756 | 1.31 | 12.10 | V |
| Highest | 5130.68 | -53.00 | -25 | -28.00 | -67.88 | -64.75 | 0.95 | 12.70 | H |
| | 7696.02 | -45.90 | -25 | -20.90 | -66.99 | -56.14 | 1.46 | 11.70 | H |
| | 10261.36 | -44.20 | -25 | -19.20 | -69.38 | -54.99 | 1.31 | 12.10 | H |
| | 5130.68 | -52.42 | -25 | -27.42 | -67.55 | -64.1656 | 0.95 | 12.70 | V |
| | 7696.02 | -38.78 | -25 | -13.78 | -59.53 | -49.0156 | 1.46 | 11.70 | V |
| | 10261.36 | -47.18 | -25 | -22.18 | -70.04 | -57.9656 | 1.31 | 12.10 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 5001.18 | -51.59 | -25 | -26.59 | -66.47 | -63.34 | 0.95 | 12.70 | H |
| | 7501.77 | -46.68 | -25 | -21.68 | -67.77 | -56.92 | 1.46 | 11.70 | H |
| | 10002.36 | -45.18 | -25 | -20.18 | -70.36 | -55.97 | 1.31 | 12.10 | H |
| | 5001.18 | -50.95 | -25 | -25.95 | -66.08 | -62.6956 | 0.95 | 12.70 | V |
| | 7501.77 | -40.51 | -25 | -15.51 | -61.26 | -50.7456 | 1.46 | 11.70 | V |
| | 10002.36 | -47.54 | -25 | -22.54 | -70.4 | -58.3256 | 1.31 | 12.10 | V |
| Middle | 5061.18 | -51.21 | -25 | -26.21 | -66.09 | -62.96 | 0.95 | 12.70 | H |
| | 7591.77 | -45.48 | -25 | -20.48 | -66.57 | -55.72 | 1.46 | 11.70 | H |
| | 10122.36 | -44.81 | -25 | -19.81 | -69.99 | -55.60 | 1.31 | 12.10 | H |
| | 5061.18 | -51.65 | -25 | -26.65 | -66.78 | -63.3956 | 0.95 | 12.70 | V |
| | 7591.77 | -40.07 | -25 | -15.07 | -60.82 | -50.3056 | 1.46 | 11.70 | V |
| | 10122.36 | -47.31 | -25 | -22.31 | -70.17 | -58.0956 | 1.31 | 12.10 | V |
| Highest | 5121.18 | -53.26 | -25 | -28.26 | -68.14 | -65.01 | 0.95 | 12.70 | H |
| | 7681.77 | -45.84 | -25 | -20.84 | -66.93 | -56.08 | 1.46 | 11.70 | H |
| | 10242.36 | -45.07 | -25 | -20.07 | -70.25 | -55.86 | 1.31 | 12.10 | H |
| | 5121.18 | -52.58 | -25 | -27.58 | -67.71 | -64.3256 | 0.95 | 12.70 | V |
| | 7681.77 | -40.94 | -25 | -15.94 | -61.69 | -51.1756 | 1.46 | 11.70 | V |
| | 10242.36 | -48.27 | -25 | -23.27 | -71.13 | -59.0556 | 1.31 | 12.10 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 5001.68 | -52.79 | -25 | -27.79 | -67.67 | -64.54 | 0.95 | 12.70 | H |
| | 7502.52 | -47.41 | -25 | -22.41 | -68.50 | -57.65 | 1.46 | 11.70 | H |
| | 10003.36 | -44.64 | -25 | -19.64 | -69.82 | -55.43 | 1.31 | 12.10 | H |
| | 5001.68 | -51.37 | -25 | -26.37 | -66.5 | -63.1156 | 0.95 | 12.70 | V |
| | 7502.52 | -39.62 | -25 | -14.62 | -60.37 | -49.8556 | 1.46 | 11.70 | V |
| | 10003.36 | -46.82 | -25 | -21.82 | -69.68 | -57.6056 | 1.31 | 12.10 | V |
| Middle | 5056.68 | -52.99 | -25 | -27.99 | -67.87 | -64.74 | 0.95 | 12.70 | H |
| | 7585.02 | -46.46 | -25 | -21.46 | -67.55 | -56.70 | 1.46 | 11.70 | H |
| | 10131.36 | -45.92 | -25 | -20.92 | -71.10 | -56.71 | 1.31 | 12.10 | H |
| | 5056.68 | -52.41 | -25 | -27.41 | -67.54 | -64.1556 | 0.95 | 12.70 | V |
| | 7585.02 | -42.01 | -25 | -17.01 | -62.76 | -52.2456 | 1.46 | 11.70 | V |
| | 10131.36 | -47.40 | -25 | -22.40 | -70.26 | -58.1856 | 1.31 | 12.10 | V |
| Highest | 5111.68 | -53.32 | -25 | -28.32 | -68.20 | -65.07 | 0.95 | 12.70 | H |
| | 7667.52 | -41.61 | -25 | -16.61 | -62.70 | -51.85 | 1.46 | 11.70 | H |
| | 10223.36 | -44.97 | -25 | -19.97 | -70.15 | -55.76 | 1.31 | 12.10 | H |
| | 5111.68 | -52.52 | -25 | -27.52 | -67.65 | -64.2656 | 0.95 | 12.70 | V |
| | 7667.52 | -37.15 | -25 | -12.15 | -57.9 | -47.3856 | 1.46 | 11.70 | V |
| | 10223.36 | -47.58 | -25 | -22.58 | -70.44 | -58.3656 | 1.31 | 12.10 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 5002.18 | -50.19 | -25 | -25.19 | -65.07 | -61.94 | 0.95 | 12.70 | H |
| | 7503.27 | -46.22 | -25 | -21.22 | -67.31 | -56.46 | 1.46 | 11.70 | H |
| | 10004.36 | -44.18 | -25 | -19.18 | -69.36 | -54.97 | 1.31 | 12.10 | H |
| | 5002.18 | -51.32 | -25 | -26.32 | -66.45 | -63.0656 | 0.95 | 12.70 | V |
| | 7503.27 | -39.76 | -25 | -14.76 | -60.51 | -49.9956 | 1.46 | 11.70 | V |
| | 10004.36 | -46.57 | -25 | -21.57 | -69.43 | -57.3556 | 1.31 | 12.10 | V |
| Middle | 5052.18 | -51.28 | -25 | -26.28 | -66.16 | -63.03 | 0.95 | 12.70 | H |
| | 7578.27 | -46.50 | -25 | -21.50 | -67.59 | -56.74 | 1.46 | 11.70 | H |
| | 10104.36 | -44.58 | -25 | -19.58 | -69.76 | -55.37 | 1.31 | 12.10 | H |
| | 5052.18 | -52.09 | -25 | -27.09 | -67.22 | -63.8356 | 0.95 | 12.70 | V |
| | 7578.27 | -41.89 | -25 | -16.89 | -62.64 | -52.1256 | 1.46 | 11.70 | V |
| | 10104.36 | -46.77 | -25 | -21.77 | -69.63 | -57.5556 | 1.31 | 12.10 | V |
| Highest | 5102.18 | -53.33 | -25 | -28.33 | -68.21 | -65.08 | 0.95 | 12.70 | H |
| | 7653.27 | -46.52 | -25 | -21.52 | -67.61 | -56.76 | 1.46 | 11.70 | H |
| | 10204.36 | -45.72 | -25 | -20.72 | -70.90 | -56.51 | 1.31 | 12.10 | H |
| | 5102.18 | -53.34 | -25 | -28.34 | -68.47 | -65.0856 | 0.95 | 12.70 | V |
| | 7653.27 | -38.82 | -25 | -13.82 | -59.57 | -49.0556 | 1.46 | 11.70 | V |
| | 10204.36 | -46.65 | -25 | -21.65 | -69.51 | -57.4356 | 1.31 | 12.10 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 17 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1408.68 | -51.02 | -13 | -38.02 | -54.32 | -53.95 | 0.78 | 5.86 | H |
| | 2113.02 | -55.47 | -13 | -42.47 | -59.99 | -58.07 | 1 | 5.75 | H |
| | 2817.36 | -55.42 | -13 | -42.42 | -62.50 | -59.72 | 1.05 | 7.50 | H |
| | 3522.5 | -49.71 | -13 | -36.71 | -59.12 | -54.96 | 1.3 | 8.70 | H |
| | 1408.68 | -37.69 | -13 | -24.69 | -43.15 | -40.62 | 0.78 | 5.86 | V |
| | 2113.02 | -53.06 | -13 | -40.06 | -56.95 | -55.66 | 1.00 | 5.75 | V |
| | 2817.36 | -54.14 | -13 | -41.14 | -61.47 | -58.44 | 1.05 | 7.50 | V |
| | 3522.5 | -50.55 | -13 | -37.55 | -60.43 | -55.80 | 1.30 | 8.70 | V |
| Middle | 1415.68 | -46.95 | -13 | -33.95 | -50.95 | -49.88 | 0.78 | 5.86 | H |
| | 2123.58 | -46.60 | -13 | -33.60 | -52.93 | -49.20 | 1 | 5.75 | H |
| | 2831.36 | -58.34 | -13 | -45.34 | -65.42 | -62.64 | 1.05 | 7.50 | H |
| | 3539.2 | -51.00 | -13 | -38.00 | -60.41 | -56.25 | 1.3 | 8.70 | H |
| | 1415.68 | -37.52 | -13 | -24.52 | -42.98 | -40.45 | 0.78 | 5.86 | V |
| | 2123.58 | -45.87 | -13 | -32.87 | -51.94 | -48.47 | 1.00 | 5.75 | V |
| | 2831.36 | -51.85 | -13 | -38.85 | -59.18 | -56.15 | 1.05 | 7.50 | V |
| | 3539.2 | -49.87 | -13 | -36.87 | -59.75 | -55.12 | 1.30 | 8.70 | V |
| Highest | 1422.68 | -52.82 | -13 | -39.82 | -55.95 | -55.75 | 0.78 | 5.86 | H |
| | 2134.02 | -52.62 | -13 | -39.62 | -57.14 | -55.22 | 1 | 5.75 | H |
| | 2845.36 | -54.06 | -13 | -41.06 | -61.14 | -58.36 | 1.05 | 7.50 | H |
| | 3556.7 | -50.70 | -13 | -37.70 | -60.11 | -55.95 | 1.3 | 8.70 | H |
| | 1422.68 | -39.63 | -13 | -26.63 | -45.02 | -42.56 | 0.78 | 5.86 | V |
| | 2134.02 | -48.75 | -13 | -35.75 | -54.28 | -51.35 | 1.00 | 5.75 | V |
| | 2845.36 | -50.92 | -13 | -37.92 | -58.25 | -55.22 | 1.05 | 7.50 | V |
| | 3556.7 | -49.76 | -13 | -36.76 | -59.64 | -55.01 | 1.30 | 8.70 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 17 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1409.18 | -46.08 | -13 | -33.08 | -50.41 | -49.01 | 0.78 | 5.86 | H |
| | 2113.77 | -54.66 | -13 | -41.66 | -59.18 | -57.26 | 1 | 5.75 | H |
| | 2818.36 | -58.49 | -13 | -45.49 | -65.57 | -62.79 | 1.05 | 7.50 | H |
| | 3522.5 | -53.00 | -13 | -40.00 | -62.41 | -58.25 | 1.3 | 8.70 | H |
| | 1409.18 | -38.23 | -13 | -25.23 | -43.68 | -41.16 | 0.78 | 5.86 | V |
| | 2113.77 | -50.04 | -13 | -37.04 | -54.93 | -52.64 | 1.00 | 5.75 | V |
| | 2818.36 | -54.96 | -13 | -41.96 | -62.29 | -59.26 | 1.05 | 7.50 | V |
| | 3522.5 | -51.07 | -13 | -38.07 | -60.95 | -56.32 | 1.30 | 8.70 | V |
| Middle | 1411.18 | -47.50 | -13 | -34.50 | -51.55 | -50.43 | 0.78 | 5.86 | H |
| | 2116.77 | -55.22 | -13 | -42.22 | -59.74 | -57.82 | 1 | 5.75 | H |
| | 2822.36 | -59.30 | -13 | -46.30 | -66.38 | -63.60 | 1.05 | 7.50 | H |
| | 3527.5 | -52.09 | -13 | -39.09 | -61.50 | -57.34 | 1.3 | 8.70 | H |
| | 1411.18 | -38.12 | -13 | -25.12 | -43.57 | -41.05 | 0.78 | 5.86 | V |
| | 2116.77 | -51.79 | -13 | -38.79 | -56.12 | -54.39 | 1.00 | 5.75 | V |
| | 2822.36 | -54.19 | -13 | -41.19 | -61.52 | -58.49 | 1.05 | 7.50 | V |
| | 3527.5 | -50.48 | -13 | -37.48 | -60.36 | -55.73 | 1.30 | 8.70 | V |
| Highest | 1413.18 | -44.70 | -13 | -31.70 | -49.11 | -47.63 | 0.78 | 5.86 | H |
| | 2119.77 | -50.65 | -13 | -37.65 | -55.99 | -53.25 | 1 | 5.75 | H |
| | 2826.36 | -58.01 | -13 | -45.01 | -65.09 | -62.31 | 1.05 | 7.50 | H |
| | 3532.5 | -51.75 | -13 | -38.75 | -61.16 | -57.00 | 1.3 | 8.70 | H |
| | 1413.18 | -37.32 | -13 | -24.32 | -42.79 | -40.25 | 0.78 | 5.86 | V |
| | 2119.77 | -43.77 | -13 | -30.77 | -50.38 | -46.37 | 1.00 | 5.75 | V |
| | 2826.36 | -52.55 | -13 | -39.55 | -59.88 | -56.85 | 1.05 | 7.50 | V |
| | 3532.5 | -49.79 | -13 | -36.79 | -59.67 | -55.04 | 1.30 | 8.70 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.