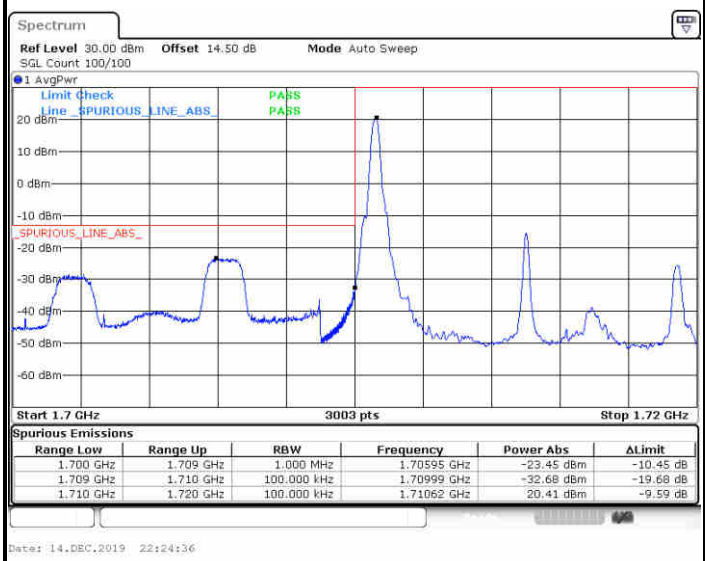
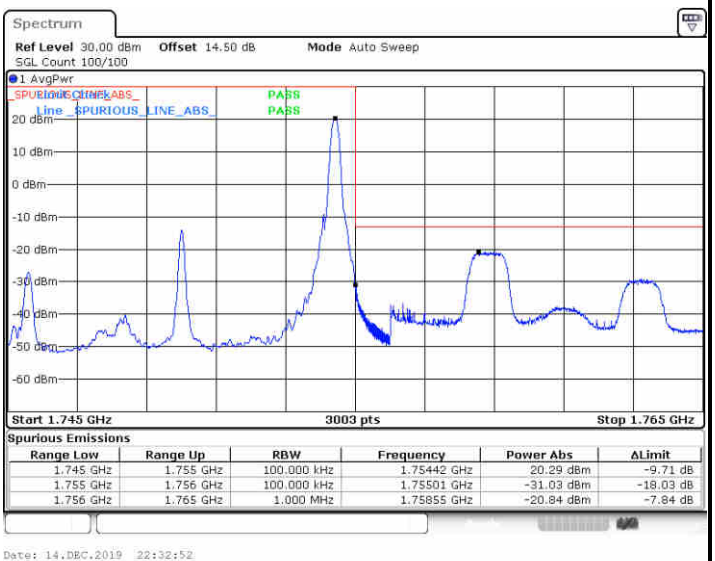
## LTE Band 4 / 10MHz / QPSK

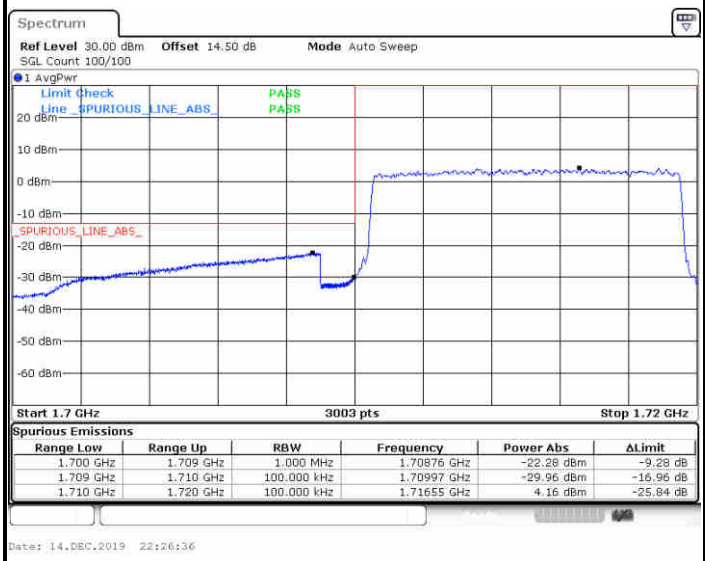
### Lowest Band Edge / 1 RB



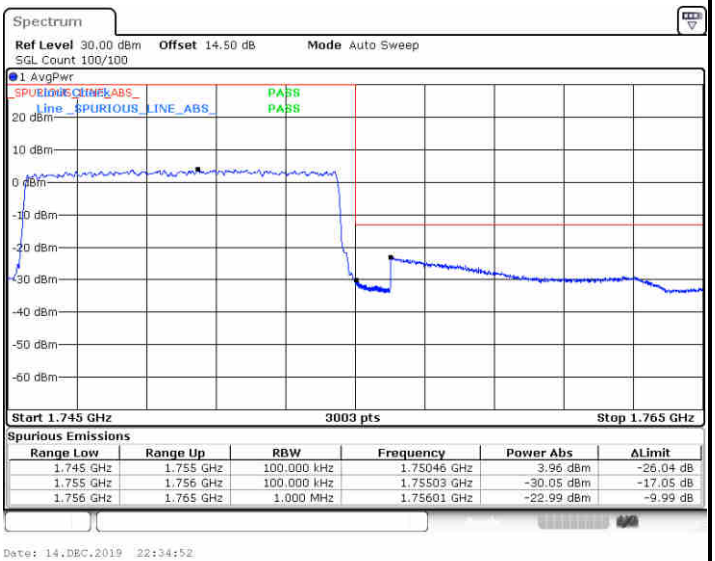

### Highest Band Edge / 1 RB




### Lowest Band Edge / Full RB

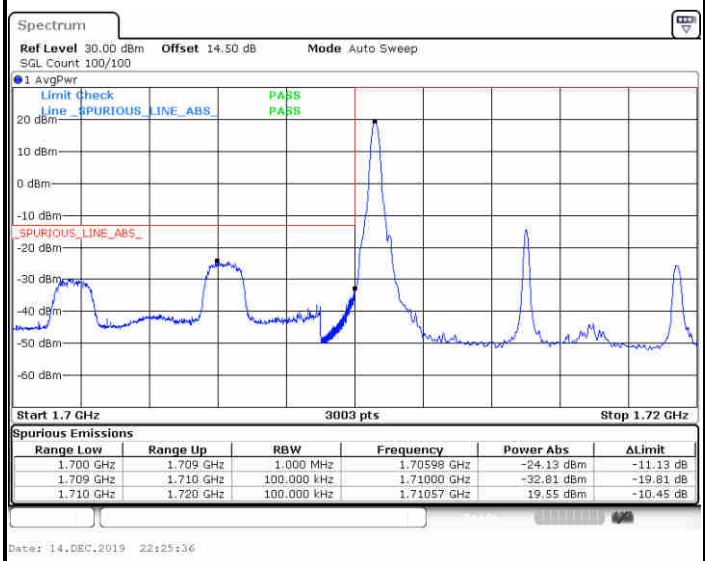



### Highest Band Edge / Full RB

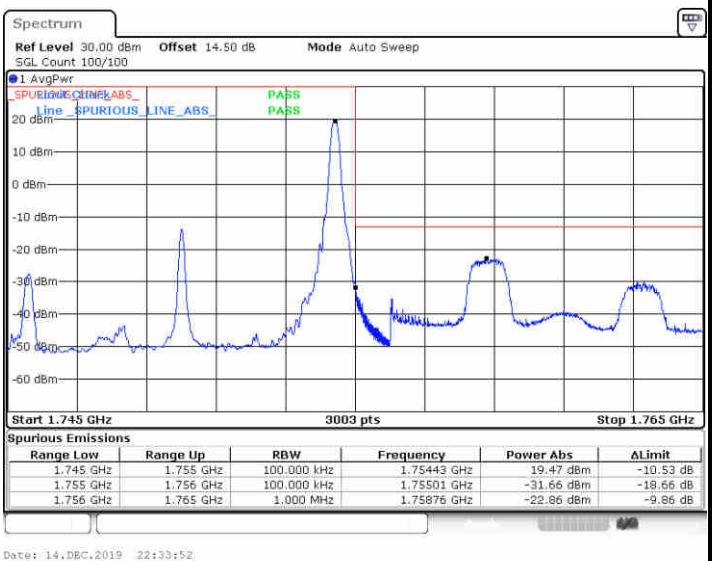


## LTE Band 4 / 10MHz / 16QAM

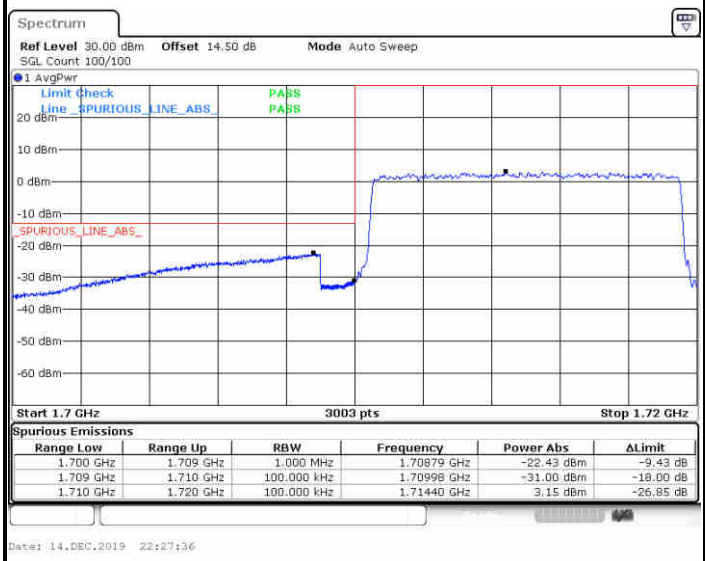
### Lowest Band Edge / 1 RB



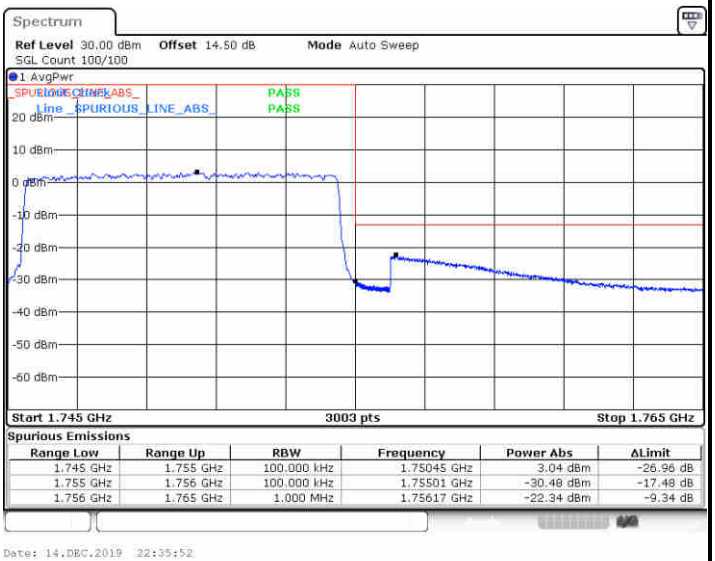

### Highest Band Edge / 1 RB




### Lowest Band Edge / Full RB

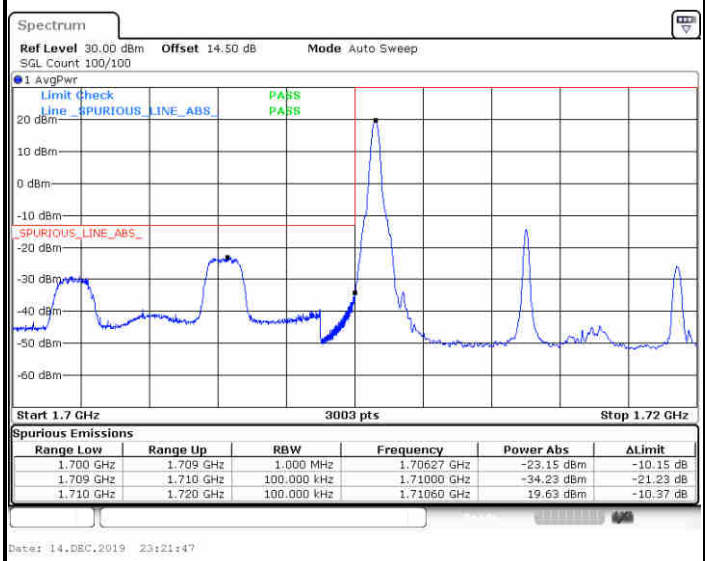



### Highest Band Edge / Full RB

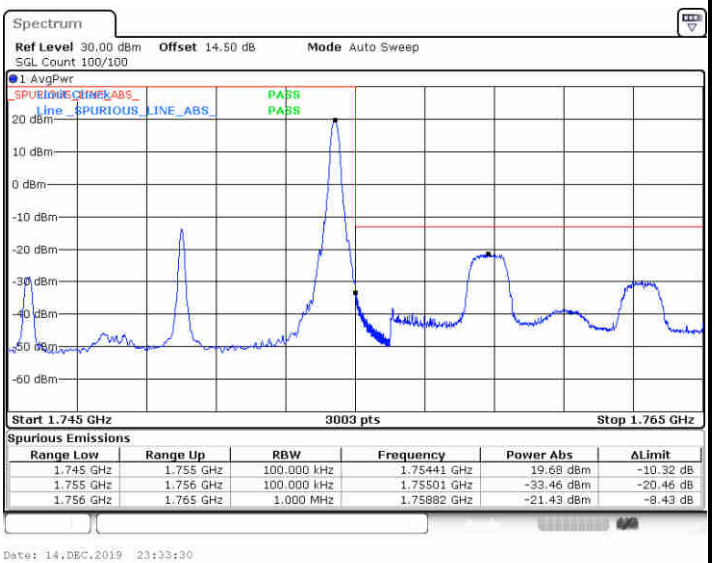


## LTE Band 4 / 10MHz / 64QAM

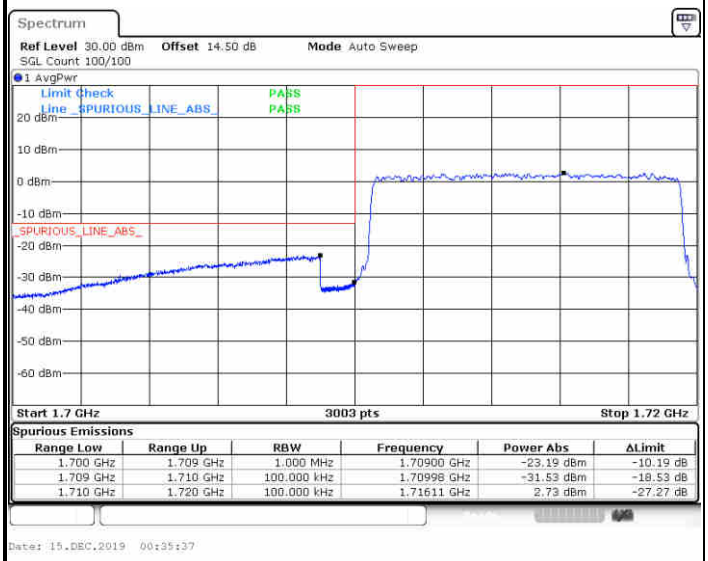
### Lowest Band Edge / 1 RB



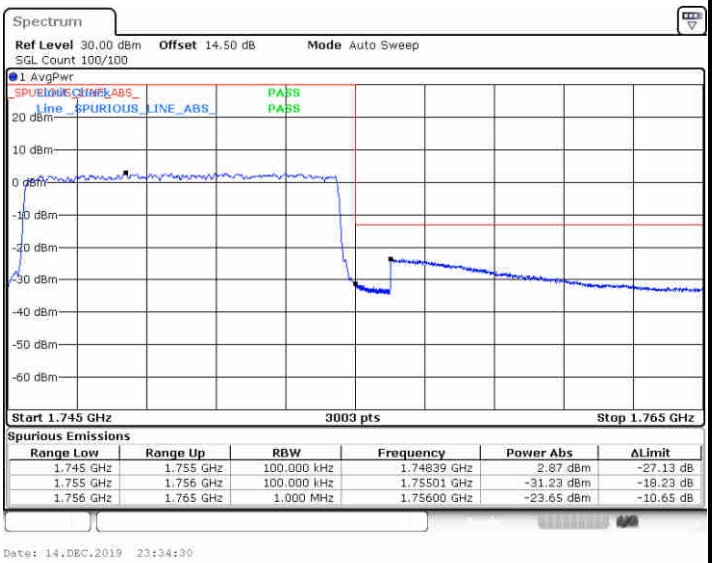

### Highest Band Edge / 1 RB




### Lowest Band Edge / Full RB

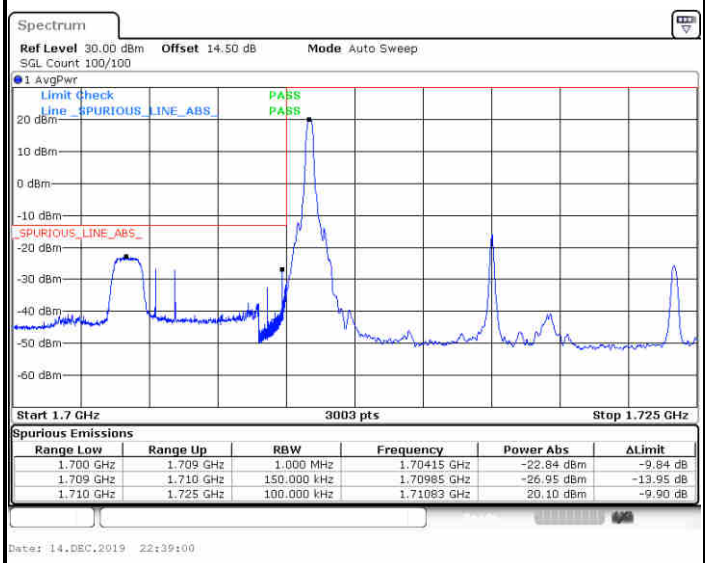



### Highest Band Edge / Full RB

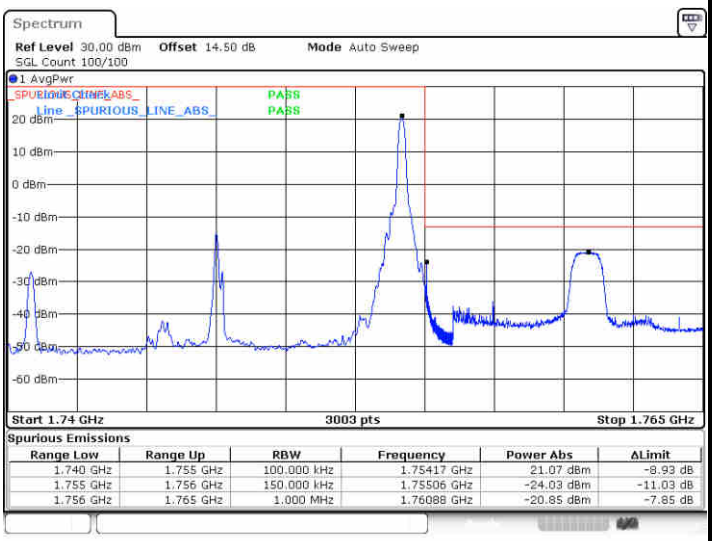


## LTE Band 4 / 15MHz / QPSK

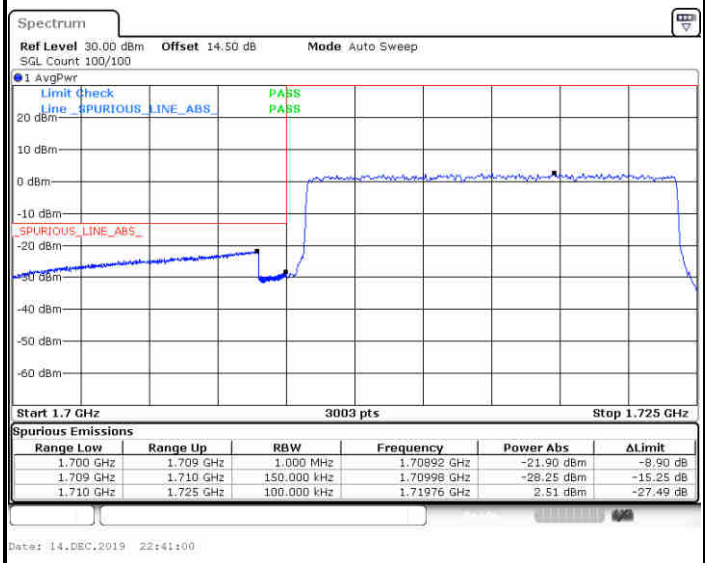
### Lowest Band Edge / 1 RB



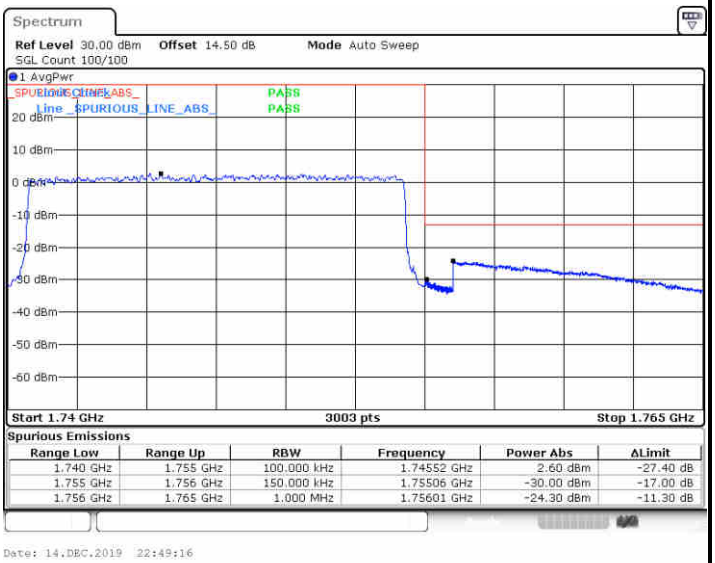

### Highest Band Edge / 1 RB




### Lowest Band Edge / Full RB

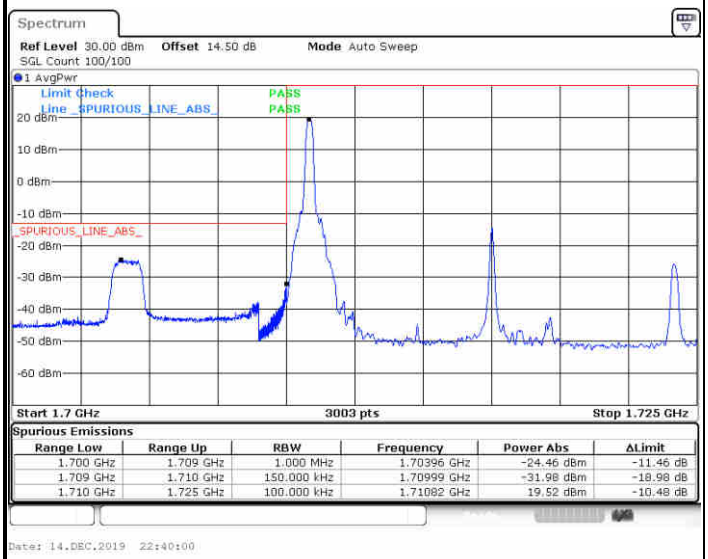



### Highest Band Edge / Full RB

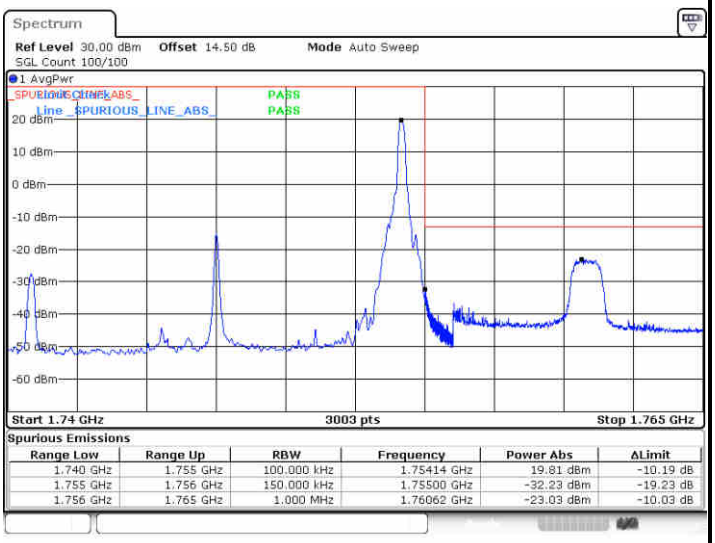


## LTE Band 4 / 15MHz / 16QAM

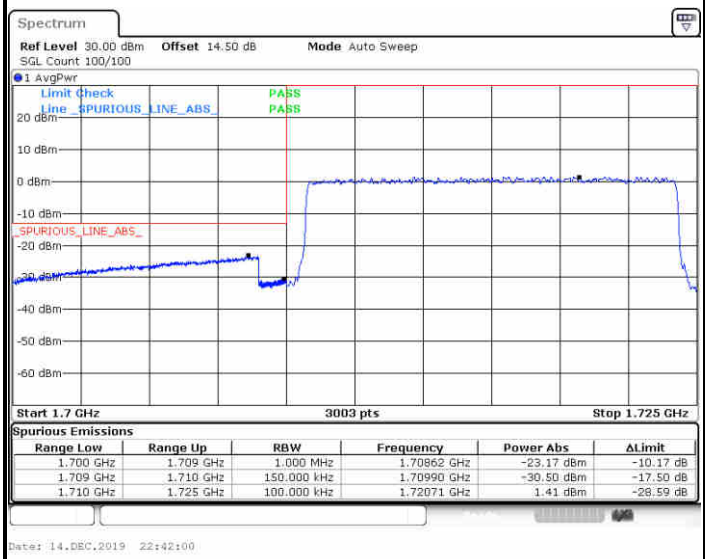
### Lowest Band Edge / 1 RB



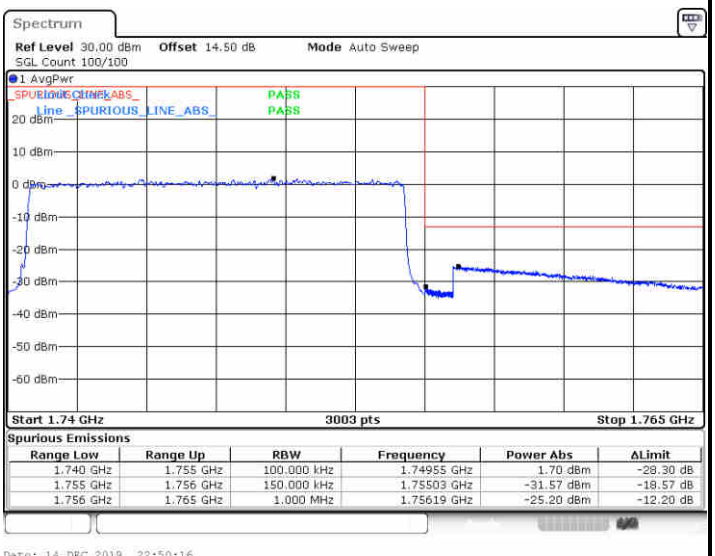

### Highest Band Edge / 1 RB




### Lowest Band Edge / Full RB

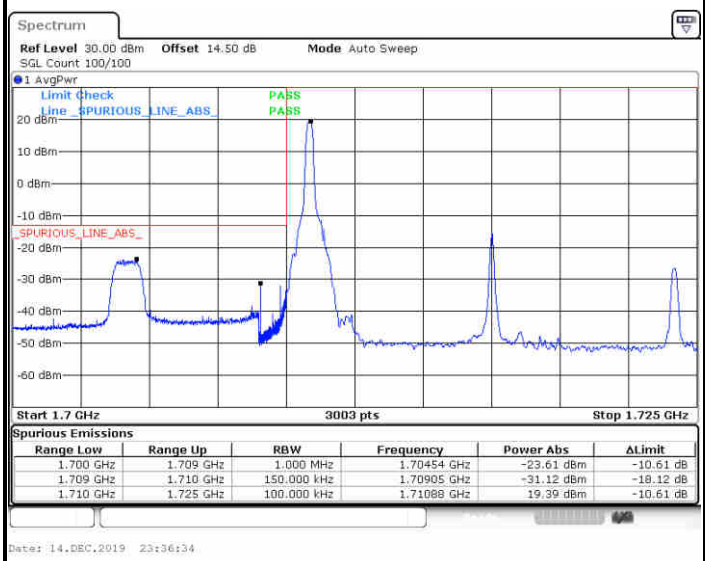



### Highest Band Edge / Full RB

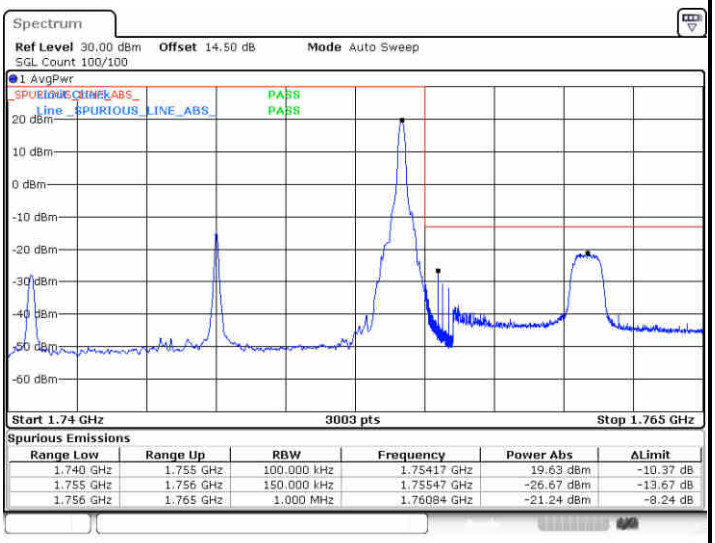


## LTE Band 4 / 15MHz / 64QAM

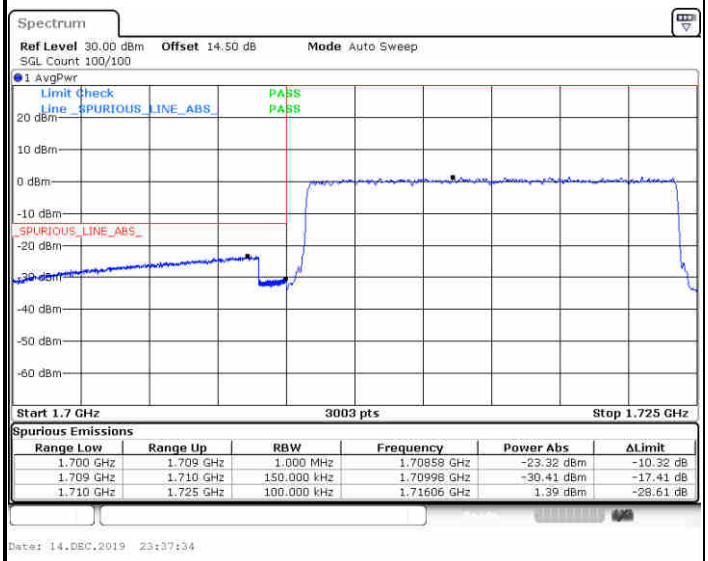
### Lowest Band Edge / 1 RB



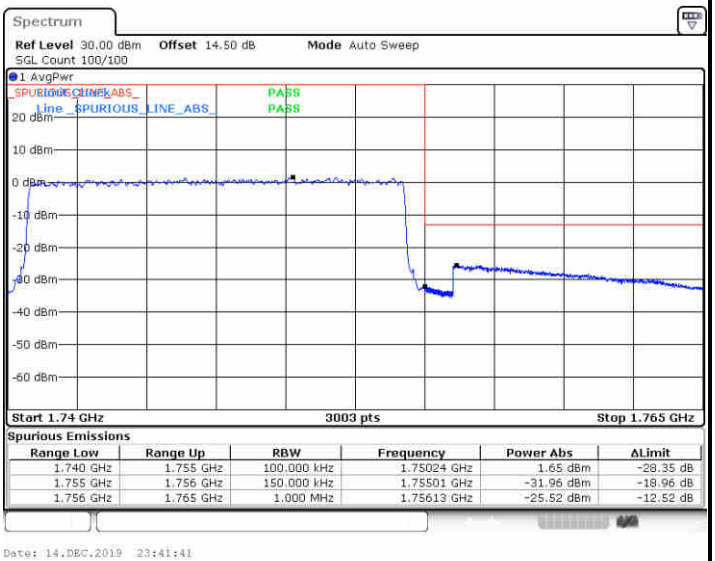

### Highest Band Edge / 1 RB




### Lowest Band Edge / Full RB

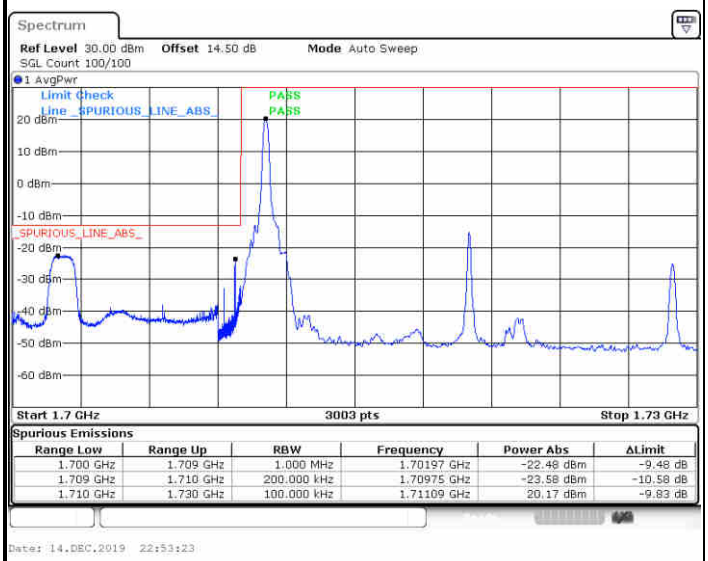



### Highest Band Edge / Full RB

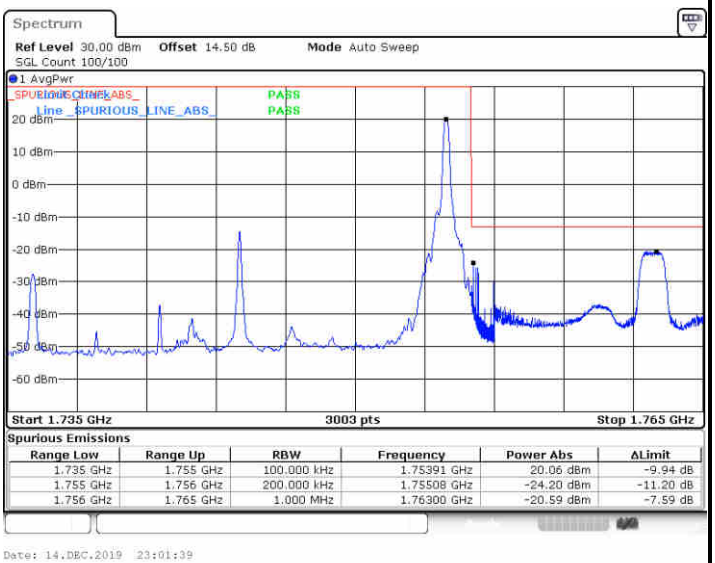


## LTE Band 4 / 20MHz / QPSK

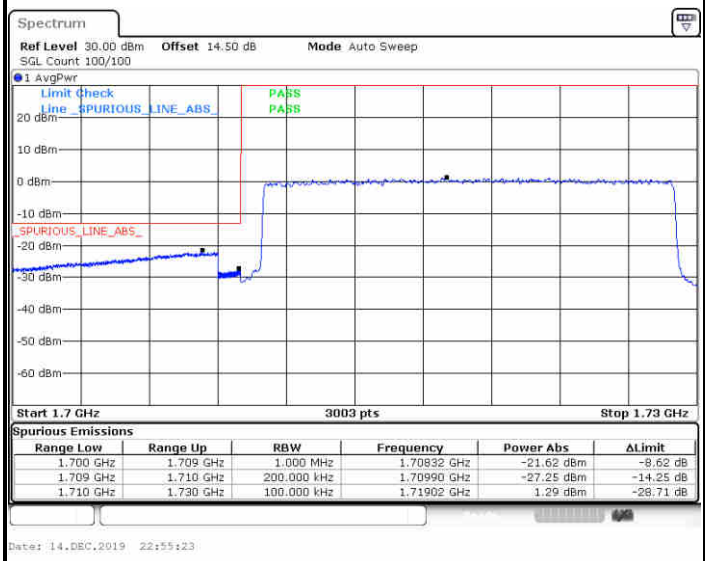
### Lowest Band Edge / 1 RB



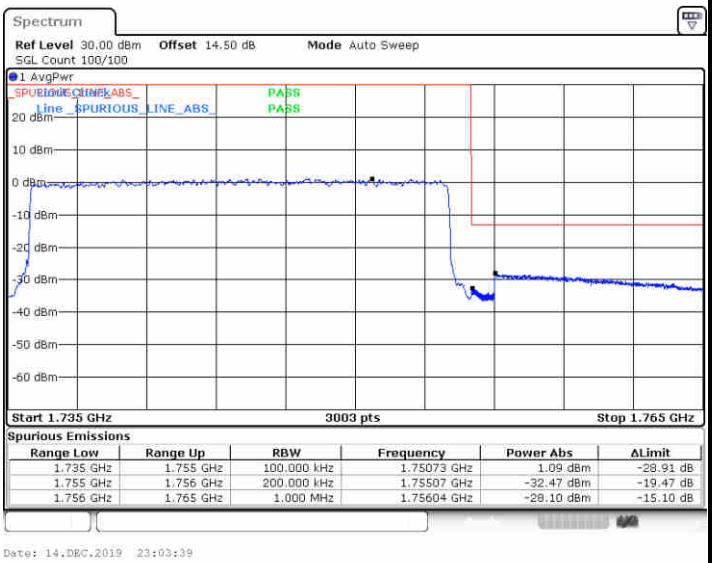

### Highest Band Edge / 1 RB




### Lowest Band Edge / Full RB

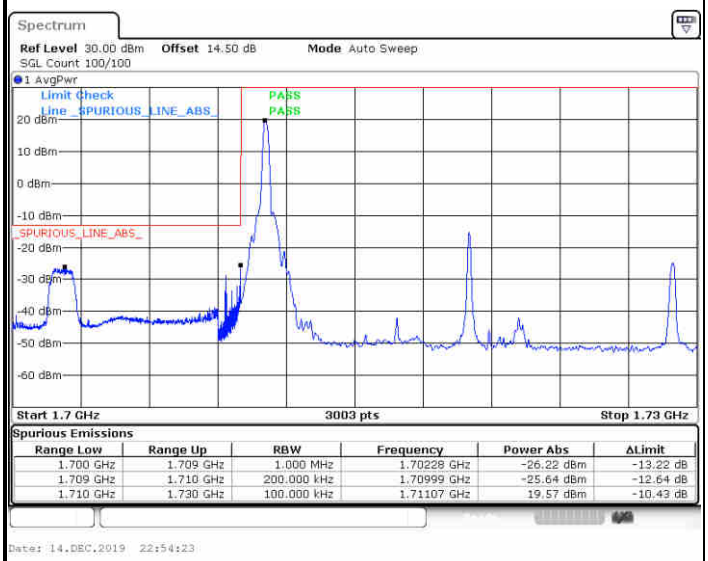



### Highest Band Edge / Full RB

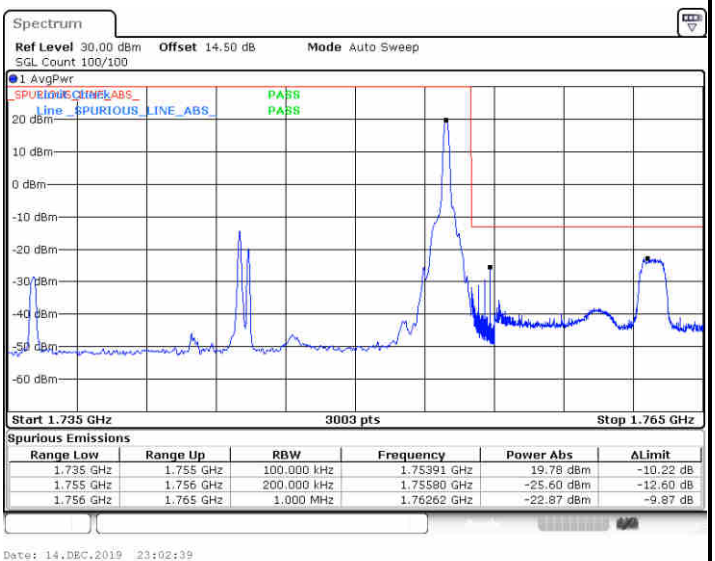


## LTE Band 4 / 20MHz / 16QAM

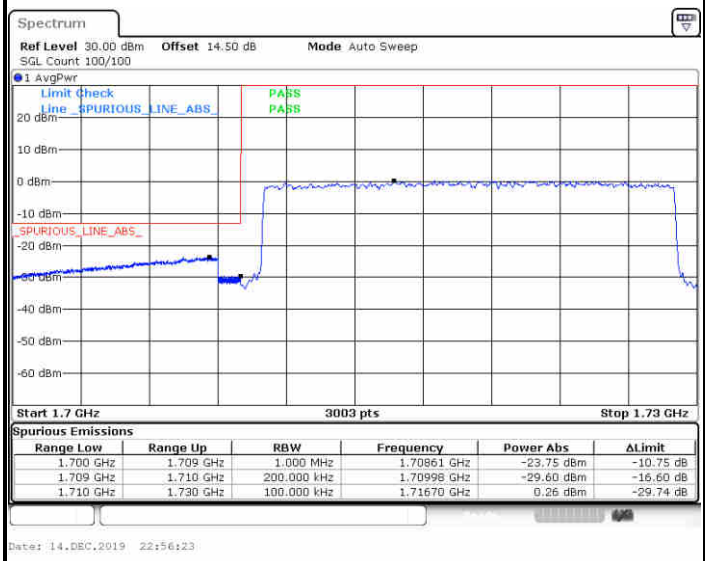
### Lowest Band Edge / 1 RB



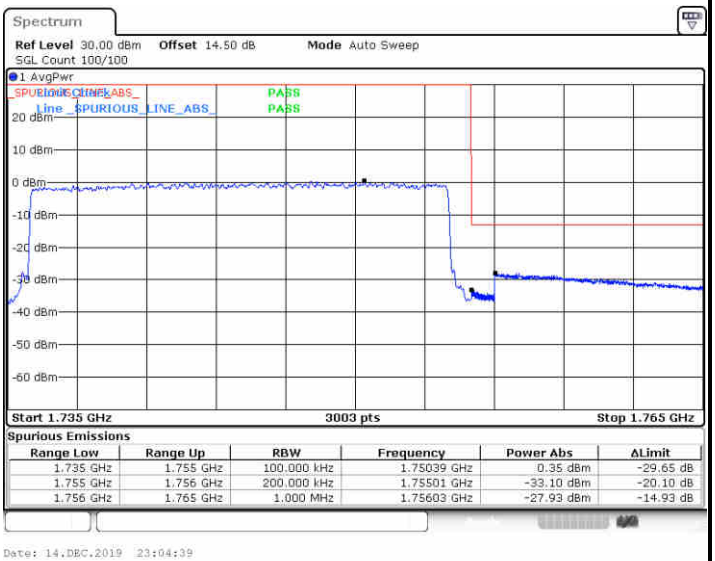

### Highest Band Edge / 1 RB




### Lowest Band Edge / Full RB

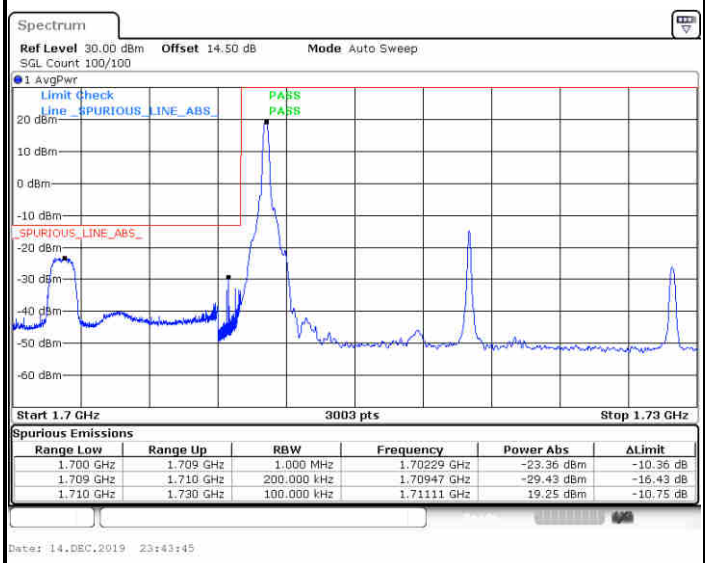



### Highest Band Edge / Full RB

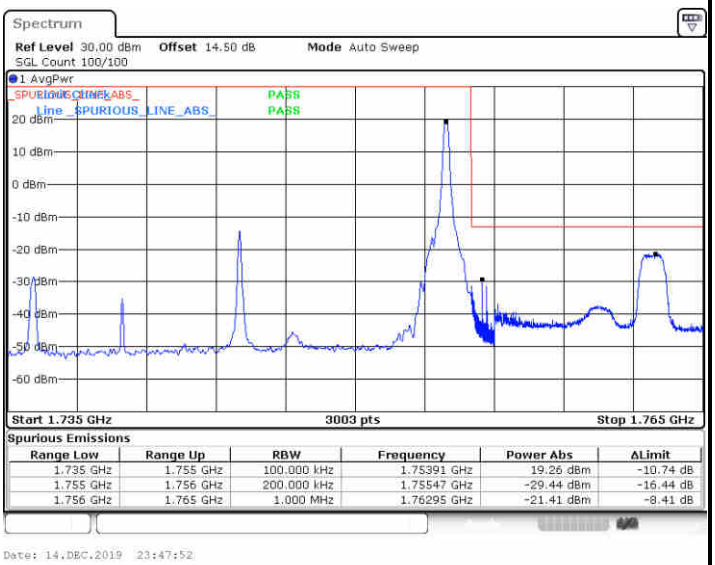


## LTE Band 4 / 20MHz / 64QAM

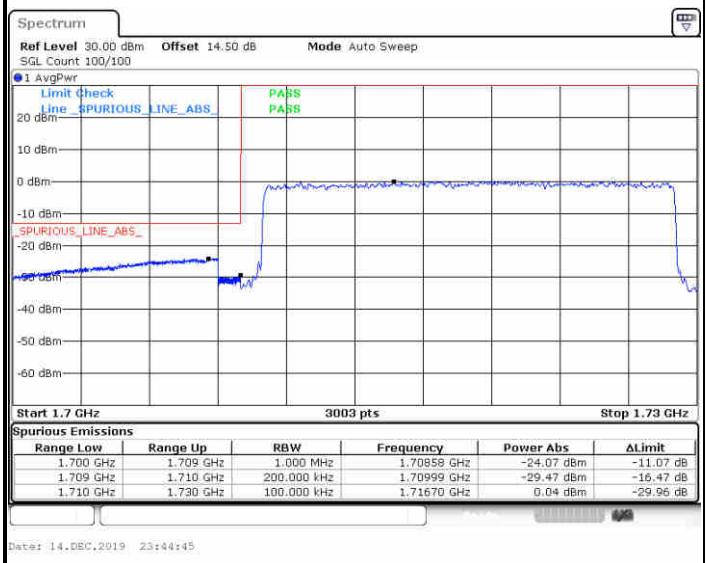
### Lowest Band Edge / 1 RB



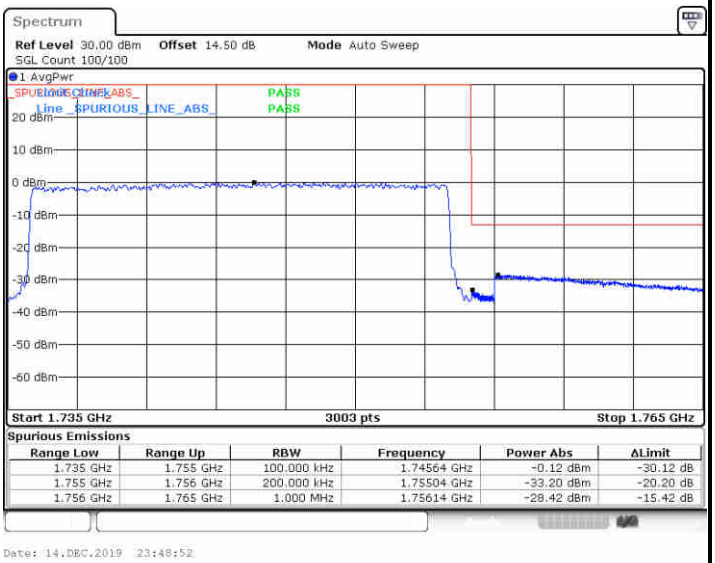

### Highest Band Edge / 1 RB




### Lowest Band Edge / Full RB



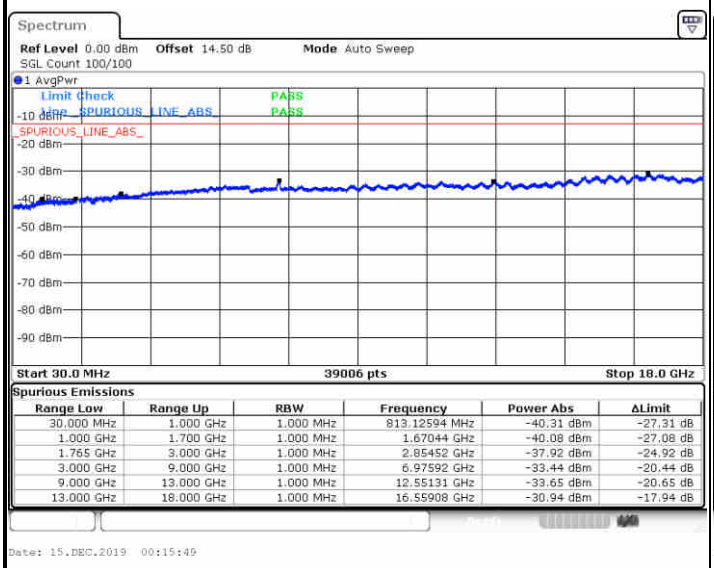

### Highest Band Edge / Full RB



# Conducted Spurious Emission

## LTE Band 4 / 1.4MHz

### Lowest Channel / QPSK

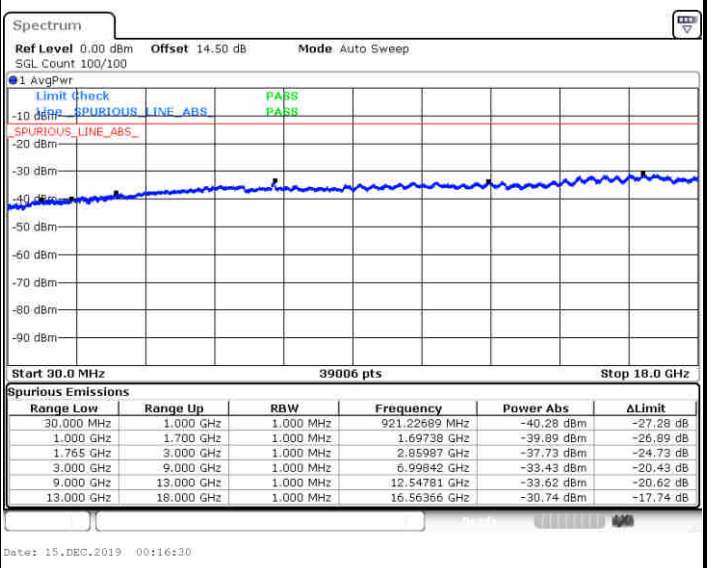



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 813.12594 MHz | -40.31 dBm | -27.31 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.67044 GHz | -40.08 dBm | -27.08 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.85452 GHz | -37.92 dBm | -24.92 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.97592 GHz | -33.44 dBm | -20.44 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.55131 GHz | -33.65 dBm | -20.65 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.55908 GHz | -30.94 dBm | -17.94 dB |

Date: 15.DEC.2019 00:15:49

### Lowest Channel / 16QAM

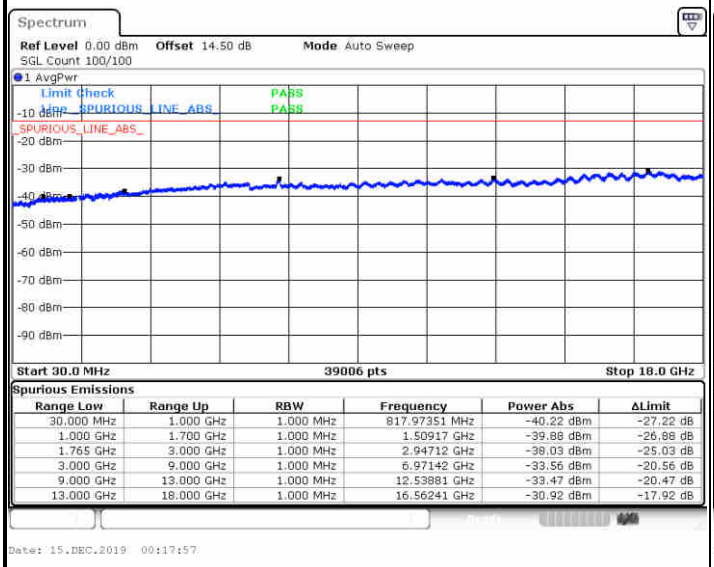



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 921.22689 MHz | -40.28 dBm | -27.28 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69738 GHz | -39.89 dBm | -26.89 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.85987 GHz | -37.73 dBm | -24.73 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99842 GHz | -33.43 dBm | -20.43 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.54781 GHz | -33.62 dBm | -20.62 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.56366 GHz | -30.74 dBm | -17.74 dB |

Date: 15.DEC.2019 00:16:30

### Middle Channel / QPSK

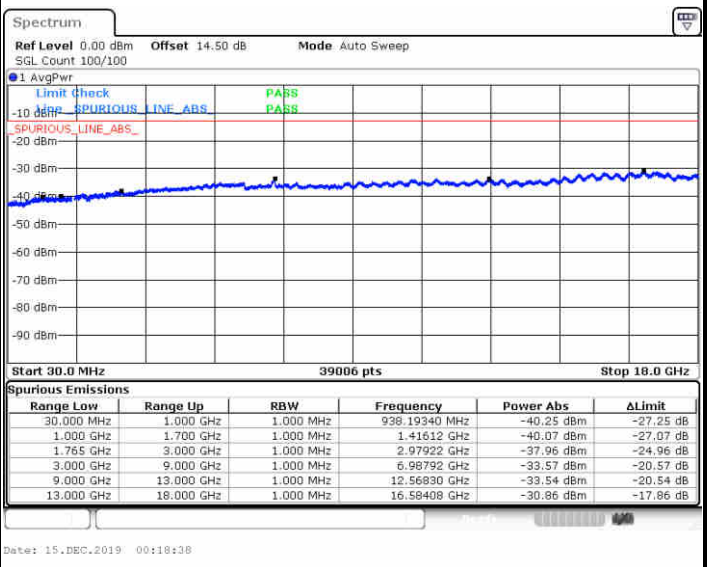



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 817.97351 MHz | -40.22 dBm | -27.22 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.50917 GHz | -39.88 dBm | -26.88 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.94712 GHz | -38.03 dBm | -25.03 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.97142 GHz | -33.56 dBm | -20.56 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.53881 GHz | -33.47 dBm | -20.47 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.56241 GHz | -30.92 dBm | -17.92 dB |

Date: 15.DEC.2019 00:17:57

### Middle Channel / 16QAM



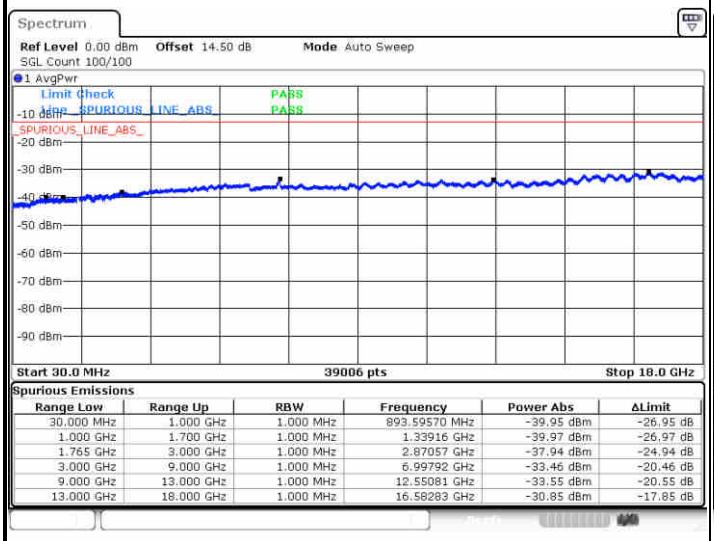

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 938.19340 MHz | -40.25 dBm | -27.25 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.41612 GHz | -40.07 dBm | -27.07 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.97922 GHz | -37.96 dBm | -24.96 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.98792 GHz | -33.57 dBm | -20.57 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.56830 GHz | -33.54 dBm | -20.54 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.58408 GHz | -30.86 dBm | -17.86 dB |

Date: 15.DEC.2019 00:18:38

## LTE Band 4 / 1.4MHz

### Highest Channel / QPSK

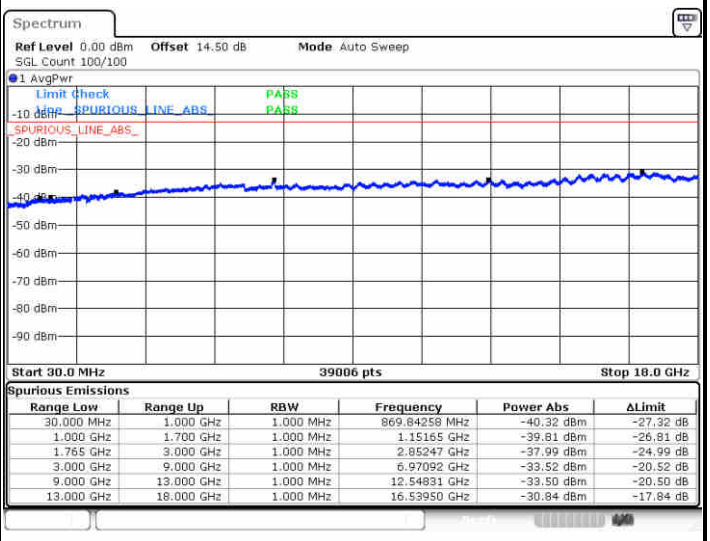



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 893.59570 MHz | -39.95 dBm | -26.95 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.33916 GHz | -39.97 dBm | -26.97 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.87057 GHz | -37.94 dBm | -24.94 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99792 GHz | -33.46 dBm | -20.46 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.55081 GHz | -33.55 dBm | -20.55 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.58283 GHz | -30.85 dBm | -17.85 dB |

Date: 15.DEC.2019 00:24:17

### Highest Channel / 16QAM



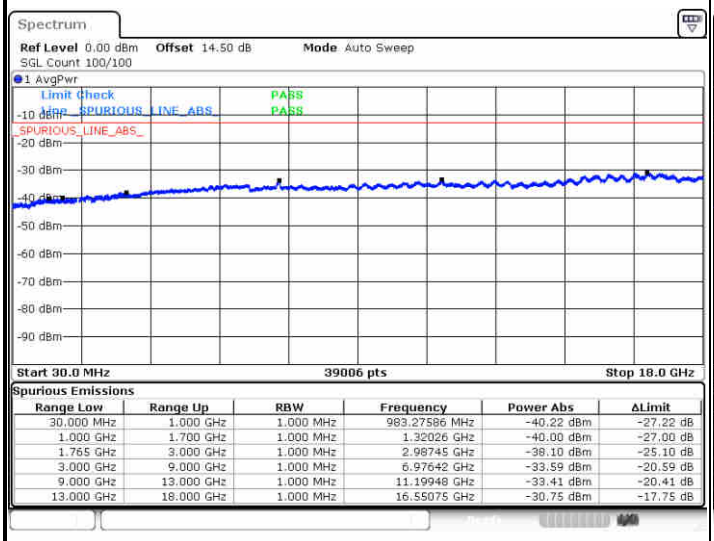

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 869.84258 MHz | -40.32 dBm | -27.32 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.15165 GHz | -39.81 dBm | -26.81 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.85247 GHz | -37.99 dBm | -24.99 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.97092 GHz | -33.52 dBm | -20.52 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.54831 GHz | -33.50 dBm | -20.50 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.53950 GHz | -30.84 dBm | -17.84 dB |

Date: 15.DEC.2019 00:24:58

## LTE Band 4 / 3MHz

### Lowest Channel / QPSK

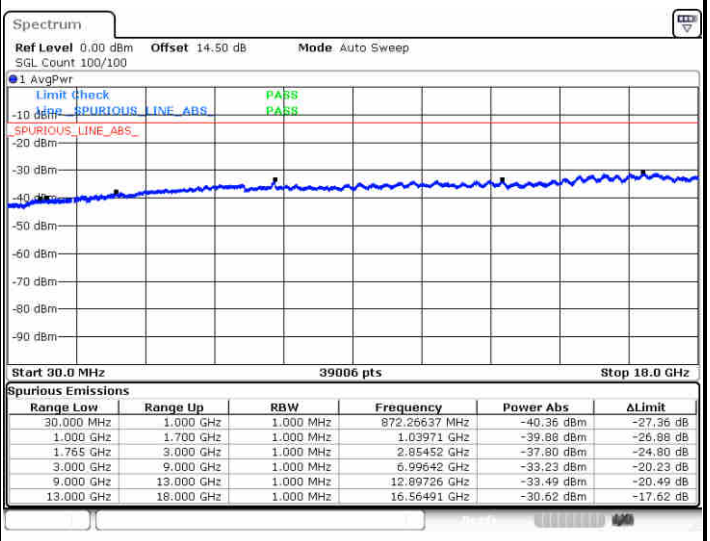



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 983.27586 MHz | -40.22 dBm | -27.22 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.32026 GHz | -40.00 dBm | -27.00 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98745 GHz | -38.10 dBm | -25.10 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.97642 GHz | -33.59 dBm | -20.59 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.19948 GHz | -33.41 dBm | -20.41 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.55075 GHz | -30.75 dBm | -17.75 dB |

Date: 14.DEC.2019 21:59:30

### Lowest Channel / 16QAM



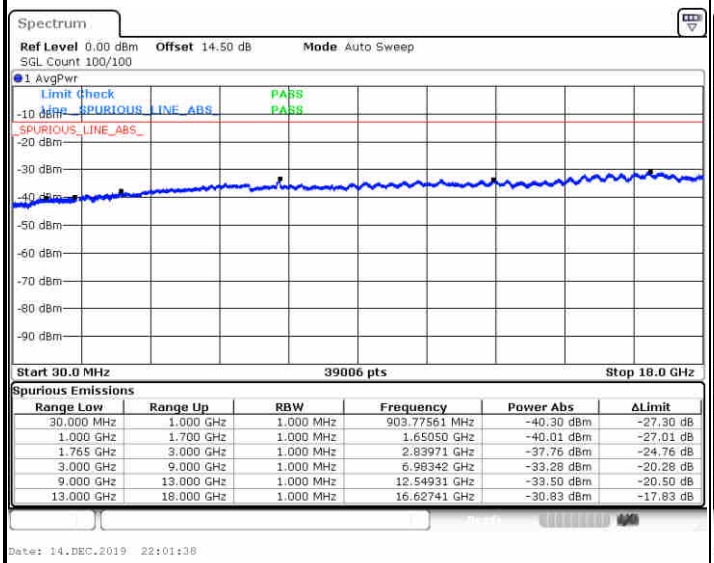

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 872.26637 MHz | -40.36 dBm | -27.36 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.03971 GHz | -39.88 dBm | -26.88 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.85452 GHz | -37.80 dBm | -24.80 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99642 GHz | -33.23 dBm | -20.23 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.89726 GHz | -33.49 dBm | -20.49 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.56491 GHz | -30.62 dBm | -17.62 dB |

Date: 14.DEC.2019 22:00:11

## LTE Band 4 / 3MHz

### Middle Channel / QPSK

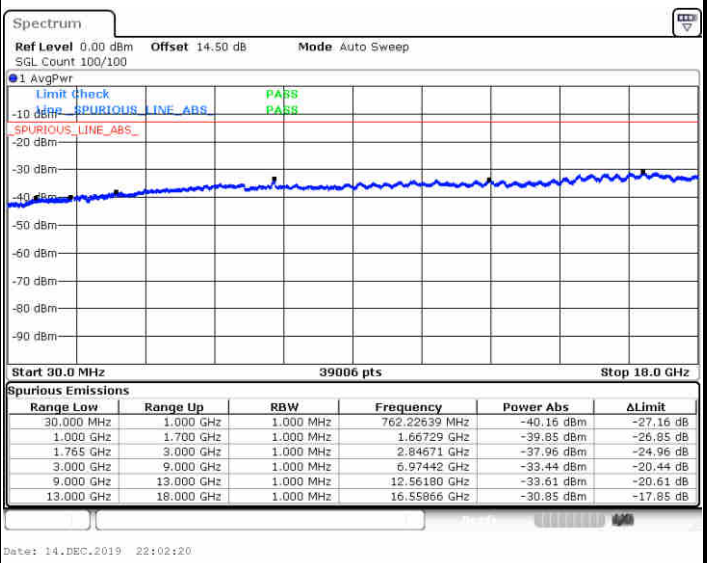



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 903.77561 MHz | -40.30 dBm | -27.30 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.65050 GHz | -40.01 dBm | -27.01 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.83971 GHz | -37.76 dBm | -24.76 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.98342 GHz | -33.28 dBm | -20.28 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.54931 GHz | -33.50 dBm | -20.50 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.62741 GHz | -30.83 dBm | -17.83 dB |

Date: 14.DEC.2019 22:01:38

### Middle Channel / 16QAM

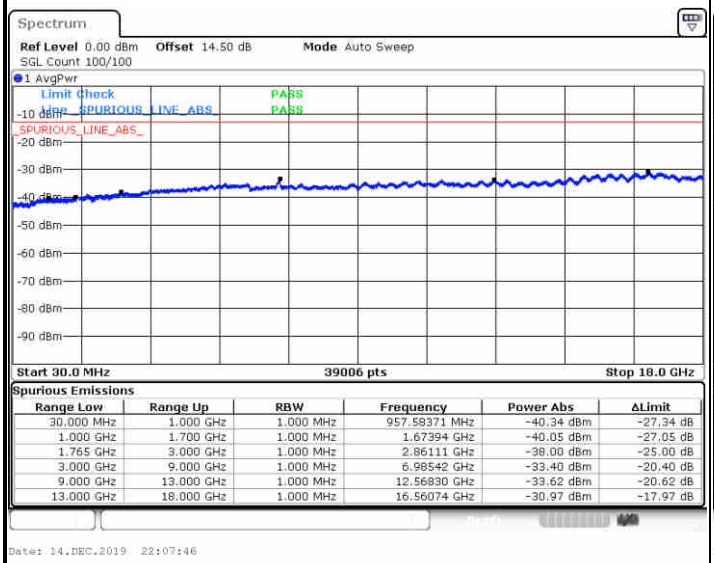



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 762.22639 MHz | -40.16 dBm | -27.16 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.66729 GHz | -39.85 dBm | -26.85 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.84671 GHz | -37.96 dBm | -24.96 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.97442 GHz | -33.44 dBm | -20.44 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.56180 GHz | -33.61 dBm | -20.61 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.55866 GHz | -30.85 dBm | -17.85 dB |

Date: 14.DEC.2019 22:02:20

### Highest Channel / QPSK

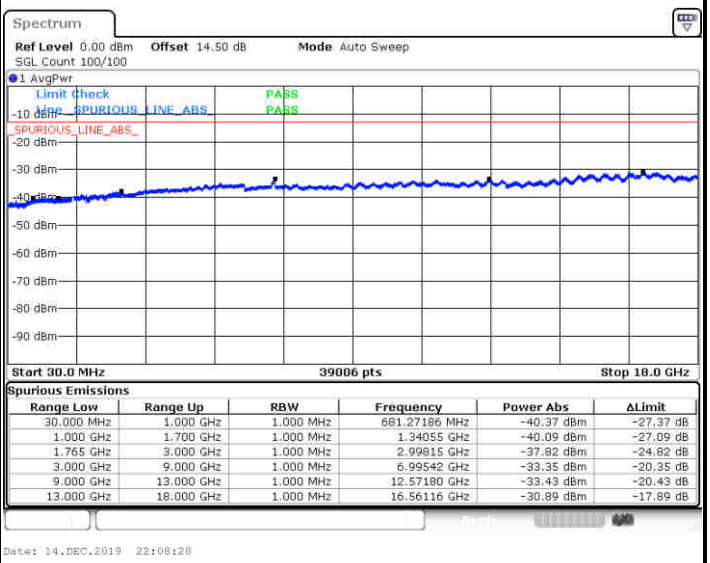



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 957.58371 MHz | -40.34 dBm | -27.34 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.67394 GHz | -40.05 dBm | -27.05 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.86111 GHz | -38.00 dBm | -25.00 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.98542 GHz | -33.40 dBm | -20.40 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.56830 GHz | -33.62 dBm | -20.62 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.56074 GHz | -30.97 dBm | -17.97 dB |

Date: 14.DEC.2019 22:07:46

### Highest Channel / 16QAM



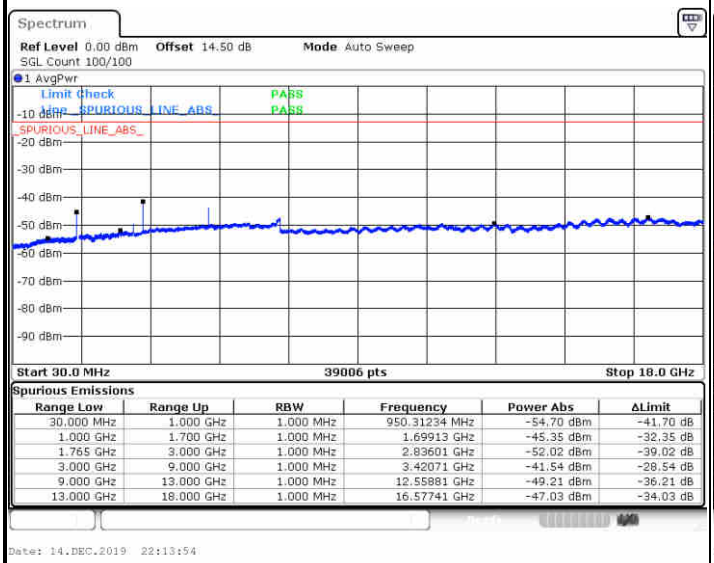

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 681.27186 MHz | -40.37 dBm | -27.37 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.34055 GHz | -40.09 dBm | -27.09 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99815 GHz | -37.82 dBm | -24.82 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99542 GHz | -33.35 dBm | -20.35 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.57180 GHz | -33.43 dBm | -20.43 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.56116 GHz | -30.89 dBm | -17.89 dB |

Date: 14.DEC.2019 22:08:28

## LTE Band 4 / 5MHz

### Lowest Channel / QPSK

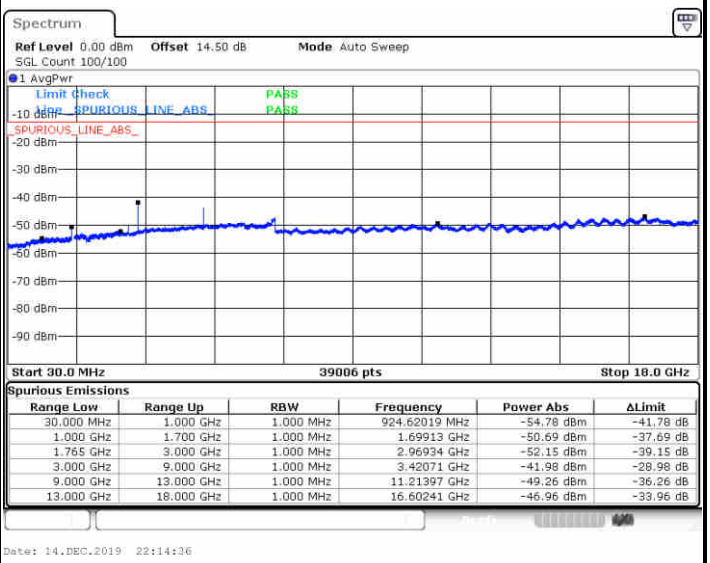



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 950.31234 MHz | -54.70 dBm | -41.70 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69913 GHz | -45.35 dBm | -32.35 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.83601 GHz | -52.02 dBm | -39.02 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.42071 GHz | -41.54 dBm | -28.54 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.55881 GHz | -49.21 dBm | -36.21 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.57741 GHz | -47.03 dBm | -34.03 dB |

Date: 14.DEC.2019 22:13:54

### Lowest Channel / 16QAM

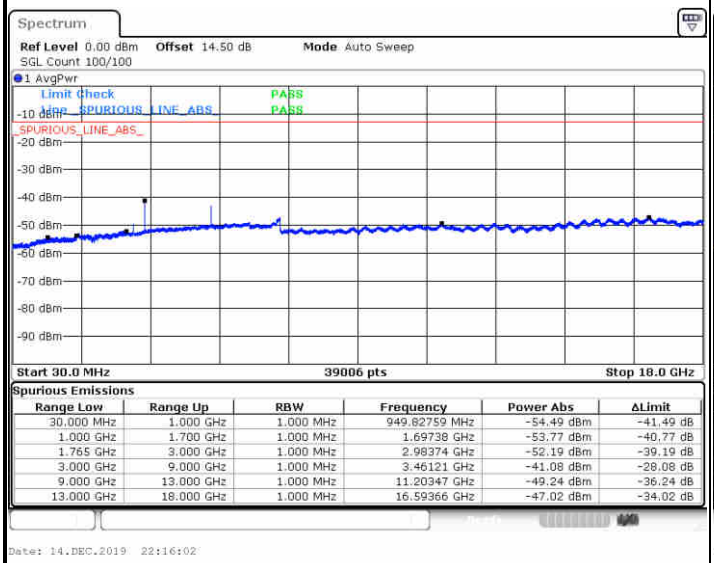



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 924.62019 MHz | -54.78 dBm | -41.78 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69913 GHz | -50.69 dBm | -37.69 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.96934 GHz | -52.15 dBm | -39.15 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.42071 GHz | -41.98 dBm | -28.98 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.21397 GHz | -49.26 dBm | -36.26 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.60241 GHz | -46.96 dBm | -33.96 dB |

Date: 14.DEC.2019 22:14:36

### Middle Channel / QPSK

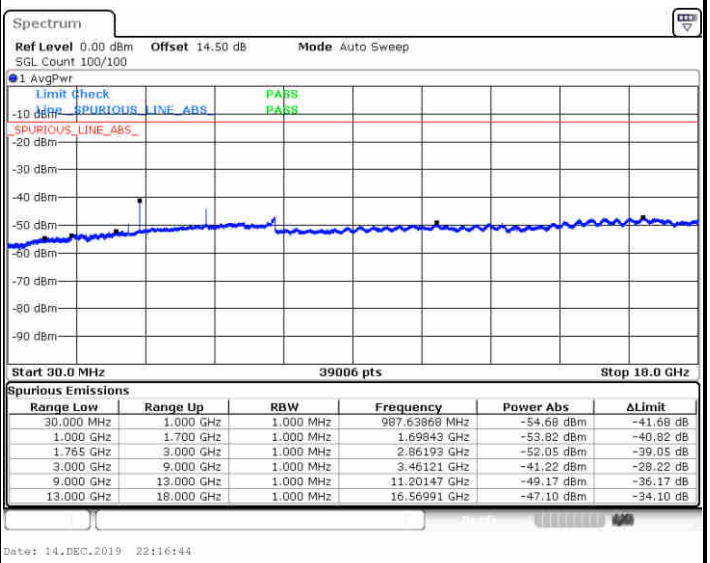



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 949.82759 MHz | -54.49 dBm | -41.49 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69738 GHz | -53.77 dBm | -40.77 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98374 GHz | -52.19 dBm | -39.19 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.46121 GHz | -41.08 dBm | -28.08 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.20347 GHz | -49.24 dBm | -36.24 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.59366 GHz | -47.02 dBm | -34.02 dB |

Date: 14.DEC.2019 22:16:02

### Middle Channel / 16QAM



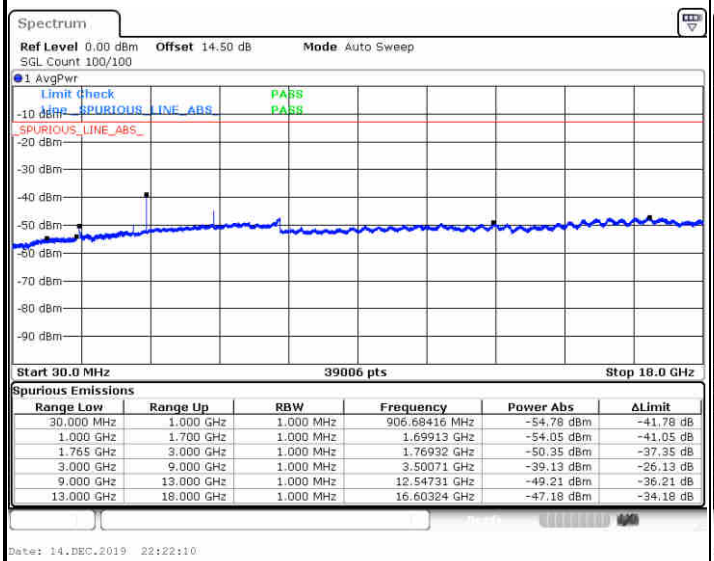

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 987.63868 MHz | -54.68 dBm | -41.68 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69843 GHz | -53.82 dBm | -40.82 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.86193 GHz | -52.05 dBm | -39.05 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.46121 GHz | -41.22 dBm | -28.22 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.20147 GHz | -49.17 dBm | -36.17 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.56991 GHz | -47.10 dBm | -34.10 dB |

Date: 14.DEC.2019 22:16:44

## LTE Band 4 / 5MHz

### Highest Channel / QPSK

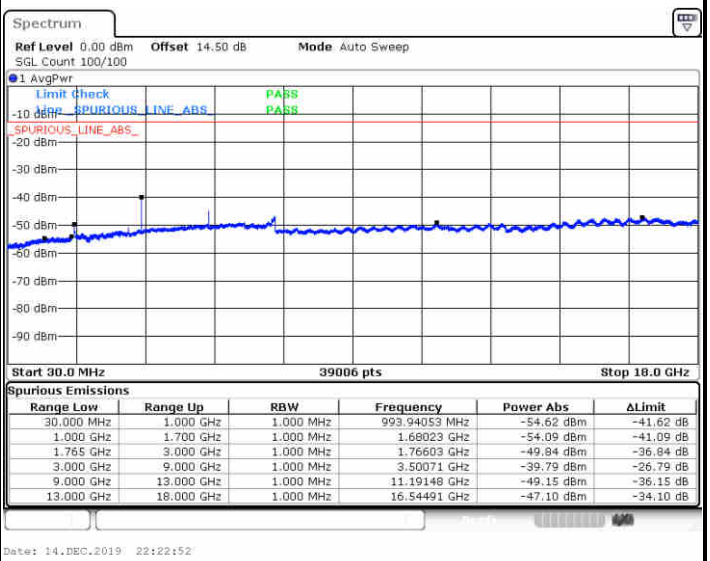



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 906.68416 MHz | -54.78 dBm | -41.78 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69913 GHz | -54.05 dBm | -41.05 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.76932 GHz | -50.35 dBm | -37.35 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.50071 GHz | -39.13 dBm | -26.13 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.54731 GHz | -49.21 dBm | -36.21 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.60324 GHz | -47.18 dBm | -34.18 dB |

Date: 14.DEC.2019 22:22:10

### Highest Channel / 16QAM



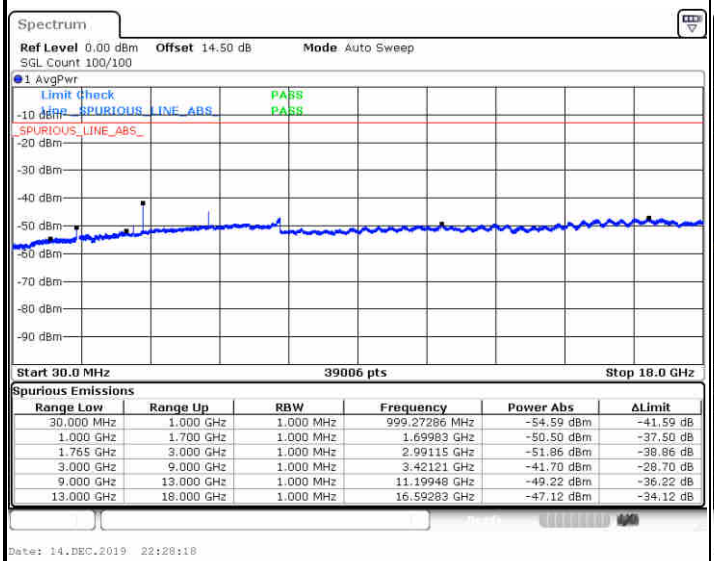

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 993.94053 MHz | -54.62 dBm | -41.62 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.68023 GHz | -54.09 dBm | -41.09 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.76603 GHz | -49.84 dBm | -36.84 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.50071 GHz | -39.79 dBm | -26.79 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.19148 GHz | -49.15 dBm | -36.15 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.54491 GHz | -47.10 dBm | -34.10 dB |

Date: 14.DEC.2019 22:22:52

## LTE Band 4 / 10MHz

### Lowest Channel / QPSK

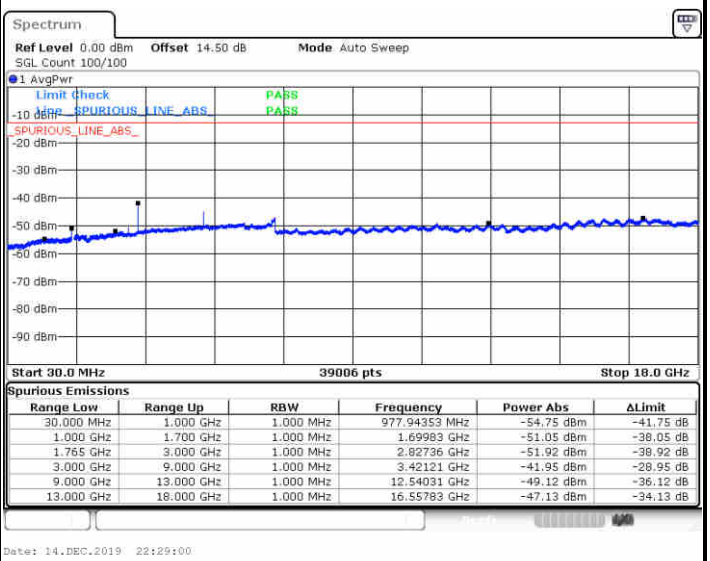



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 999.27286 MHz | -54.59 dBm | -41.59 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69983 GHz | -50.50 dBm | -37.50 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99115 GHz | -51.86 dBm | -38.86 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.42121 GHz | -41.70 dBm | -28.70 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.19948 GHz | -49.22 dBm | -36.22 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.59283 GHz | -47.12 dBm | -34.12 dB |

Date: 14.DEC.2019 22:28:18

### Lowest Channel / 16QAM



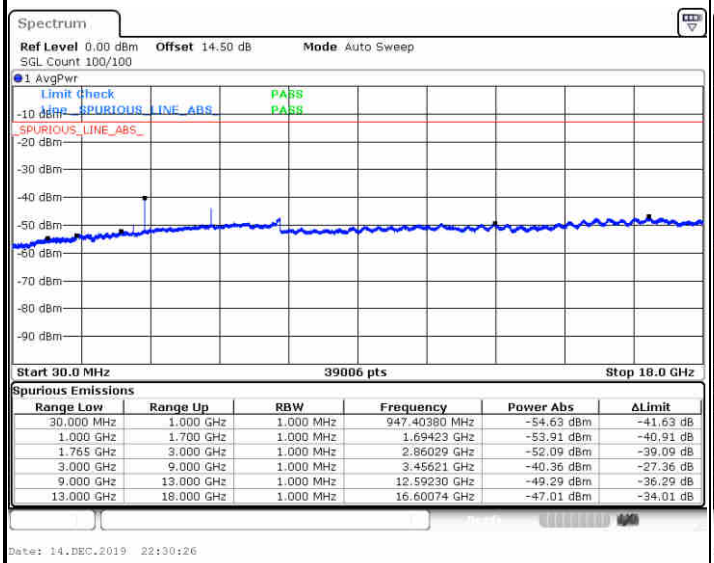

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 977.94353 MHz | -54.75 dBm | -41.75 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69983 GHz | -51.05 dBm | -38.05 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.82736 GHz | -51.92 dBm | -38.92 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.42121 GHz | -41.95 dBm | -28.95 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.54031 GHz | -49.12 dBm | -36.12 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.55783 GHz | -47.13 dBm | -34.13 dB |

Date: 14.DEC.2019 22:29:00

## LTE Band 4 / 10MHz

### Middle Channel / QPSK

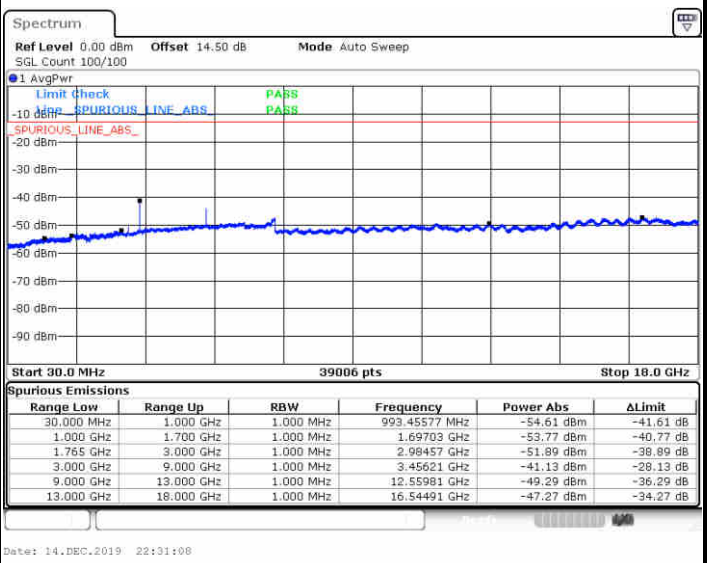



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 947.40380 MHz | -54.63 dBm | -41.63 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69423 GHz | -53.91 dBm | -40.91 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.86029 GHz | -52.09 dBm | -39.09 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.45621 GHz | -40.36 dBm | -27.36 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.59230 GHz | -49.29 dBm | -36.29 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.60074 GHz | -47.01 dBm | -34.01 dB |

Date: 14.DEC.2019 22:30:26

### Middle Channel / 16QAM

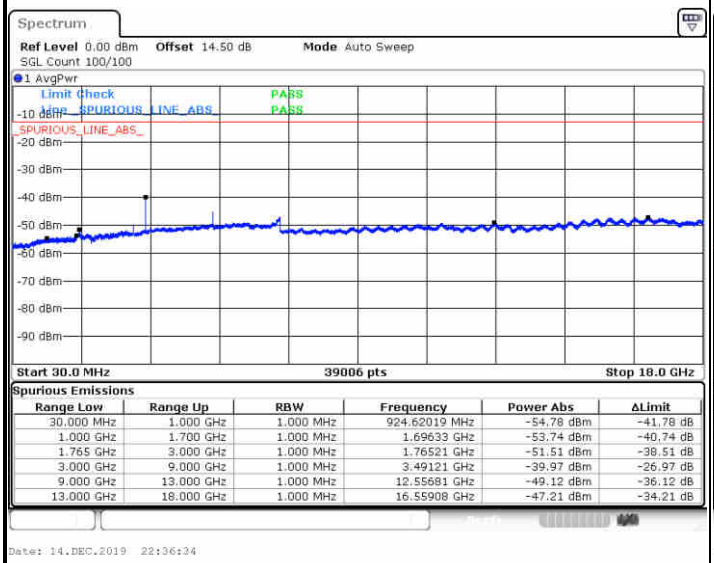



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 993.45577 MHz | -54.61 dBm | -41.61 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69703 GHz | -53.77 dBm | -40.77 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98457 GHz | -51.89 dBm | -38.89 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.45621 GHz | -41.13 dBm | -28.13 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.55981 GHz | -49.29 dBm | -36.29 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.54491 GHz | -47.27 dBm | -34.27 dB |

Date: 14.DEC.2019 22:31:08

### Highest Channel / QPSK

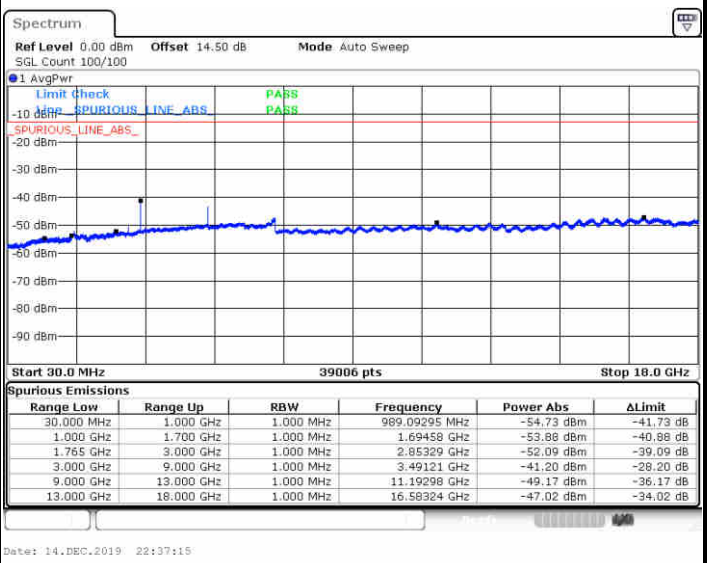



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 924.62019 MHz | -54.78 dBm | -41.78 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69633 GHz | -53.74 dBm | -40.74 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.76521 GHz | -51.51 dBm | -38.51 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.49121 GHz | -39.97 dBm | -26.97 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.55681 GHz | -49.12 dBm | -36.12 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.55908 GHz | -47.21 dBm | -34.21 dB |

Date: 14.DEC.2019 22:36:34

### Highest Channel / 16QAM



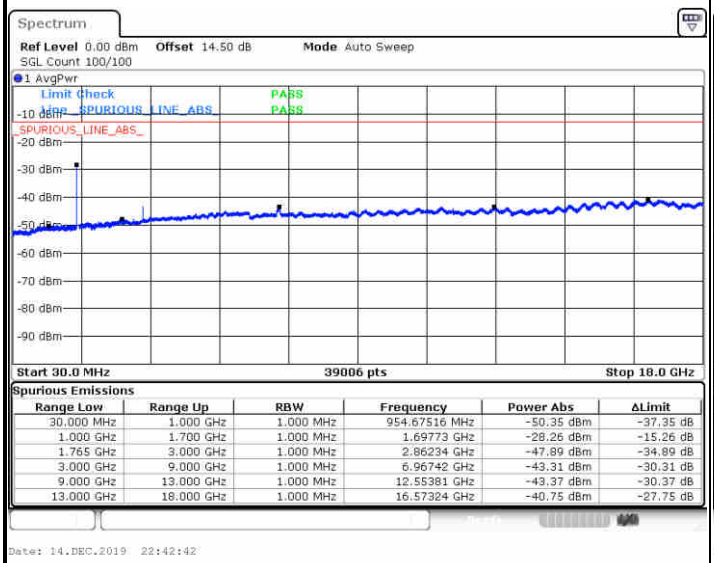

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 989.09295 MHz | -54.73 dBm | -41.73 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69458 GHz | -53.88 dBm | -40.88 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.85329 GHz | -52.09 dBm | -39.09 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.49121 GHz | -41.20 dBm | -28.20 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.19298 GHz | -49.17 dBm | -36.17 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.58324 GHz | -47.02 dBm | -34.02 dB |

Date: 14.DEC.2019 22:37:15

## LTE Band 4 / 15MHz

### Lowest Channel / QPSK

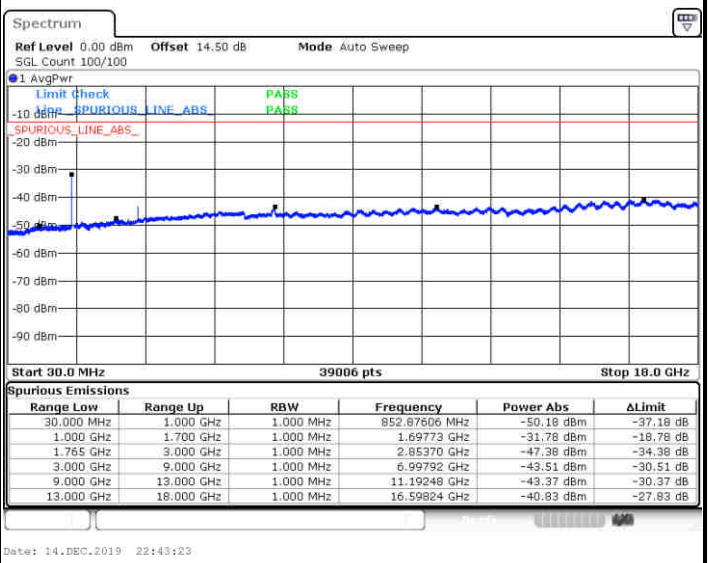



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 954.67516 MHz | -50.35 dBm | -37.35 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69773 GHz | -28.26 dBm | -15.26 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.86234 GHz | -47.89 dBm | -34.89 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.96742 GHz | -43.31 dBm | -30.31 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.55381 GHz | -43.37 dBm | -30.37 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.57324 GHz | -40.75 dBm | -27.75 dB |

Date: 14.DEC.2019 22:42:42

### Lowest Channel / 16QAM

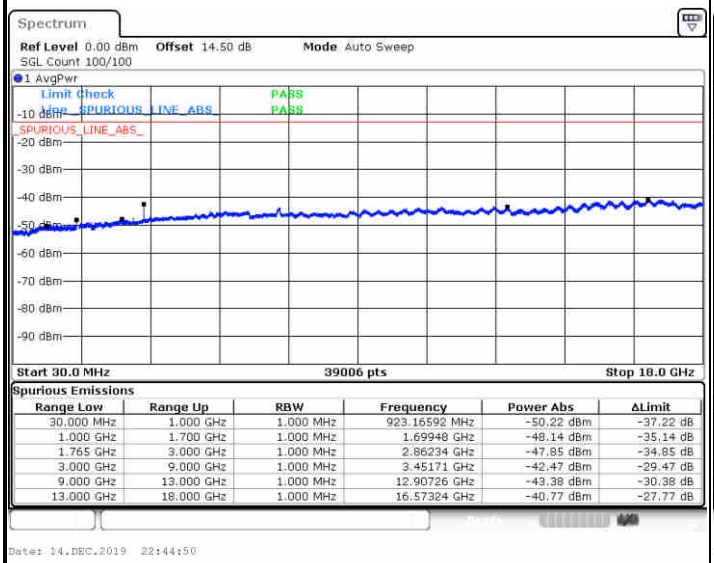



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 852.87606 MHz | -50.18 dBm | -37.18 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69773 GHz | -31.78 dBm | -18.78 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.85370 GHz | -47.38 dBm | -34.38 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99792 GHz | -43.51 dBm | -30.51 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.19248 GHz | -43.37 dBm | -30.37 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.59824 GHz | -40.83 dBm | -27.83 dB |

Date: 14.DEC.2019 22:43:23

### Middle Channel / QPSK

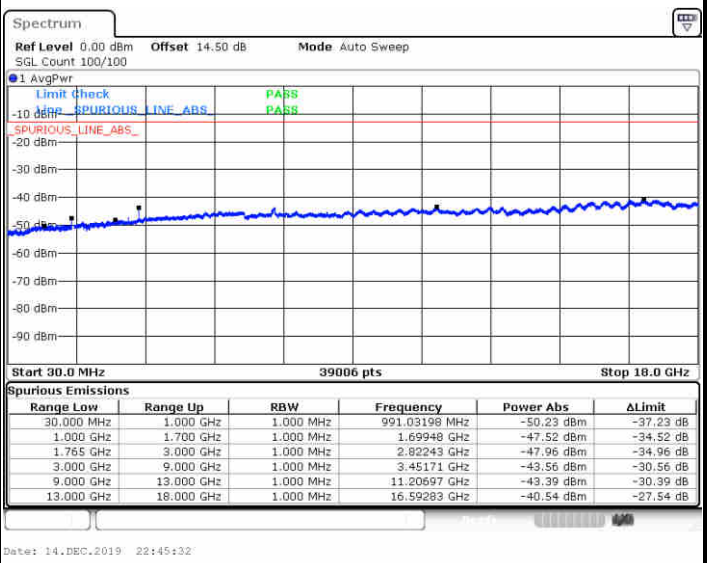



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 923.16592 MHz | -50.22 dBm | -37.22 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69948 GHz | -48.14 dBm | -35.14 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.86234 GHz | -47.85 dBm | -34.85 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.45171 GHz | -42.47 dBm | -29.47 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.90726 GHz | -43.38 dBm | -30.38 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.57324 GHz | -40.77 dBm | -27.77 dB |

Date: 14.DEC.2019 22:44:50

### Middle Channel / 16QAM



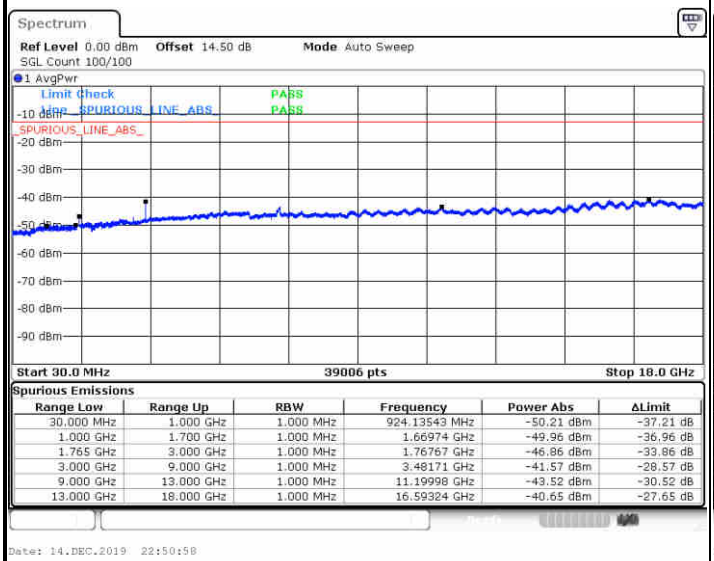

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 991.03198 MHz | -50.23 dBm | -37.23 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69948 GHz | -47.52 dBm | -34.52 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.82243 GHz | -47.96 dBm | -34.96 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.45171 GHz | -43.56 dBm | -30.56 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.20697 GHz | -43.39 dBm | -30.39 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.59283 GHz | -40.54 dBm | -27.54 dB |

Date: 14.DEC.2019 22:45:32

## LTE Band 4 / 15MHz

### Highest Channel / QPSK

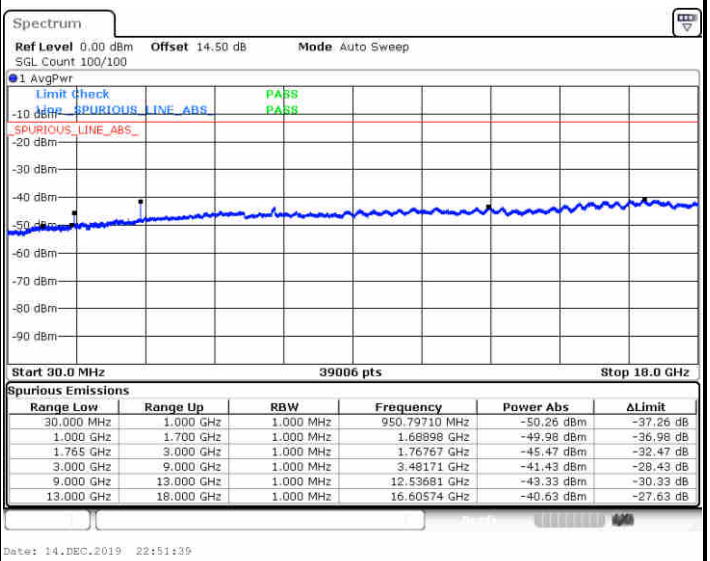



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 924.13543 MHz | -50.21 dBm | -37.21 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.66974 GHz | -49.96 dBm | -36.96 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.76767 GHz | -46.86 dBm | -33.86 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.48171 GHz | -41.57 dBm | -28.57 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.19998 GHz | -43.52 dBm | -30.52 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.59324 GHz | -40.65 dBm | -27.65 dB |

Date: 14.DEC.2019 22:50:58

### Highest Channel / 16QAM



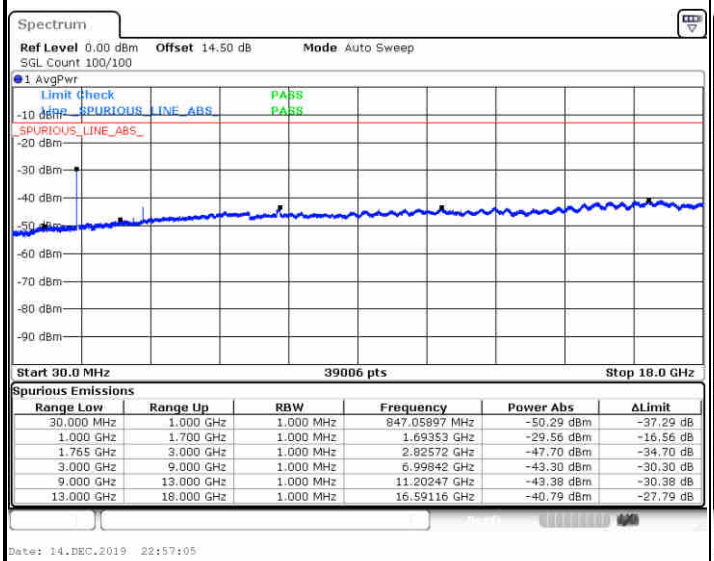

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 950.79710 MHz | -50.26 dBm | -37.26 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.68898 GHz | -49.98 dBm | -36.98 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.76767 GHz | -45.47 dBm | -32.47 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.48171 GHz | -41.43 dBm | -28.43 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.53681 GHz | -43.33 dBm | -30.33 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.60574 GHz | -40.63 dBm | -27.63 dB |

Date: 14.DEC.2019 22:51:39

## LTE Band 4 / 20MHz

### Lowest Channel / QPSK

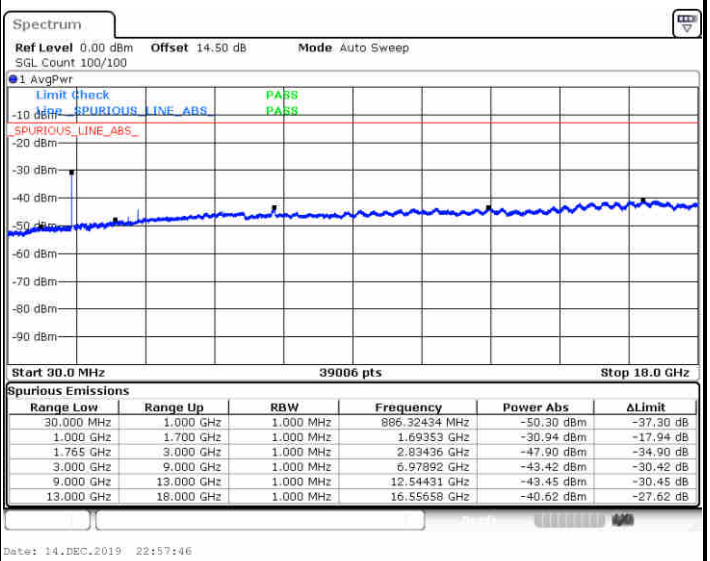



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 847.05897 MHz | -50.29 dBm | -37.29 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69353 GHz | -29.56 dBm | -16.56 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.82572 GHz | -47.70 dBm | -34.70 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99842 GHz | -43.30 dBm | -30.30 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.20247 GHz | -43.38 dBm | -30.38 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.59116 GHz | -40.79 dBm | -27.79 dB |

Date: 14.DEC.2019 22:57:05

### Lowest Channel / 16QAM



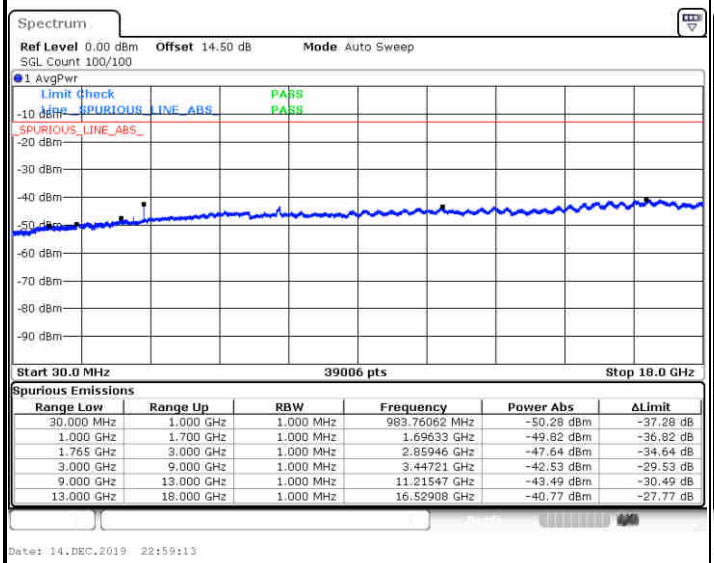

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 886.32434 MHz | -50.30 dBm | -37.30 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69353 GHz | -30.94 dBm | -17.94 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.83436 GHz | -47.90 dBm | -34.90 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.97892 GHz | -43.42 dBm | -30.42 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.54431 GHz | -43.45 dBm | -30.45 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.55658 GHz | -40.62 dBm | -27.62 dB |

Date: 14.DEC.2019 22:57:46

## LTE Band 4 / 20MHz

### Middle Channel / QPSK

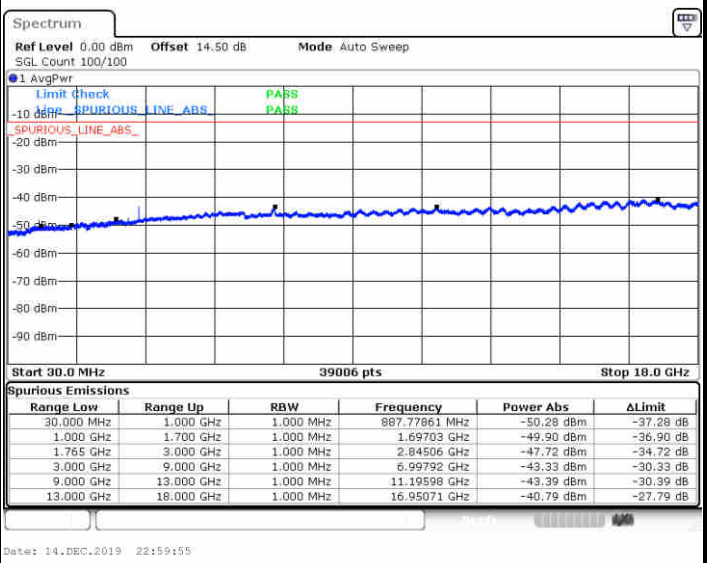



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 983.76062 MHz | -50.28 dBm | -37.28 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69633 GHz | -49.82 dBm | -36.82 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.85946 GHz | -47.64 dBm | -34.64 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.44721 GHz | -42.53 dBm | -29.53 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.21547 GHz | -43.49 dBm | -30.49 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.52908 GHz | -40.77 dBm | -27.77 dB |

Date: 14.DEC.2019 22:59:13

### Middle Channel / 16QAM

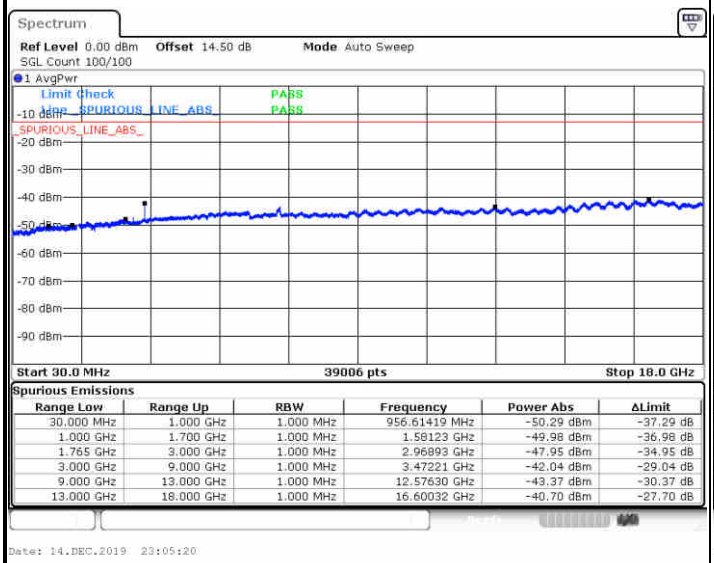



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 887.77861 MHz | -50.28 dBm | -37.28 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69703 GHz | -49.90 dBm | -36.90 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.84506 GHz | -47.72 dBm | -34.72 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99792 GHz | -43.33 dBm | -30.33 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.19598 GHz | -43.39 dBm | -30.39 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.95071 GHz | -40.79 dBm | -27.79 dB |

Date: 14.DEC.2019 22:59:55

### Highest Channel / QPSK

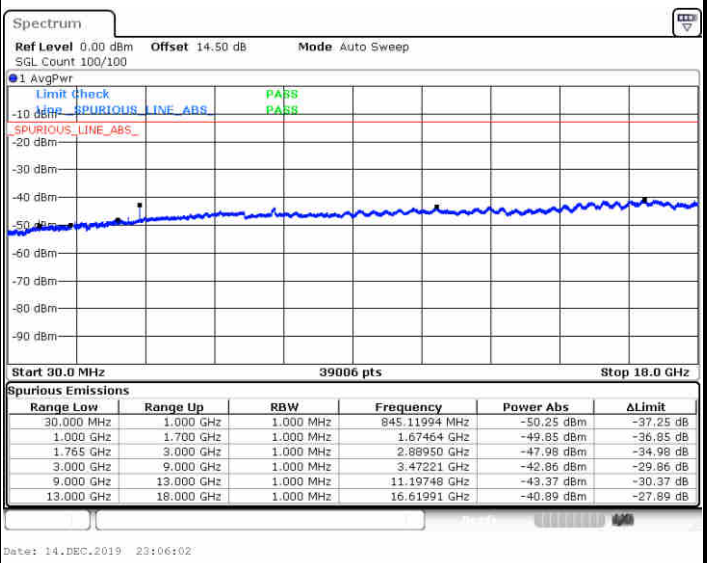



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 956.61419 MHz | -50.29 dBm | -37.29 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.58123 GHz | -49.98 dBm | -36.98 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.96893 GHz | -47.95 dBm | -34.95 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.47221 GHz | -42.04 dBm | -29.04 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.57630 GHz | -43.37 dBm | -30.37 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.60032 GHz | -40.70 dBm | -27.70 dB |

Date: 14.DEC.2019 23:05:20

### Highest Channel / 16QAM



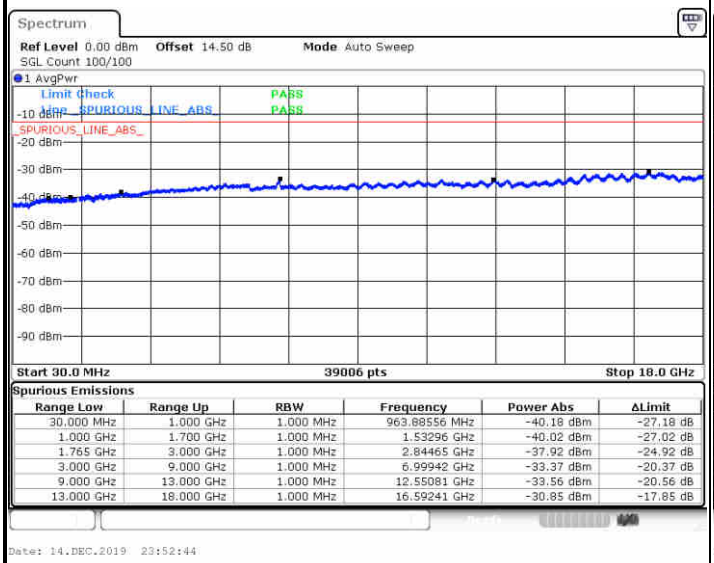

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 845.11994 MHz | -50.25 dBm | -37.25 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.67464 GHz | -49.85 dBm | -36.85 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.88950 GHz | -47.98 dBm | -34.98 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.47221 GHz | -42.86 dBm | -29.86 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.19748 GHz | -43.37 dBm | -30.37 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.61991 GHz | -40.89 dBm | -27.89 dB |

Date: 14.DEC.2019 23:06:02

## LTE Band 4 / 1.4MHz

### Lowest Channel / 64QAM

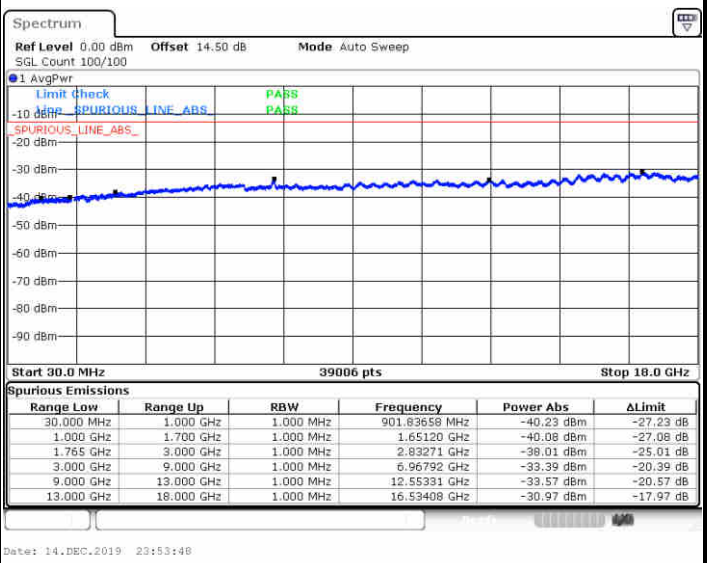



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 963.88556 MHz | -40.18 dBm | -27.18 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.53296 GHz | -40.02 dBm | -27.02 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.84465 GHz | -37.92 dBm | -24.92 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99942 GHz | -33.37 dBm | -20.37 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.55081 GHz | -33.56 dBm | -20.56 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.59241 GHz | -30.85 dBm | -17.85 dB |

Date: 14.DEC.2019 23:52:44

### Middle Channel / 64QAM

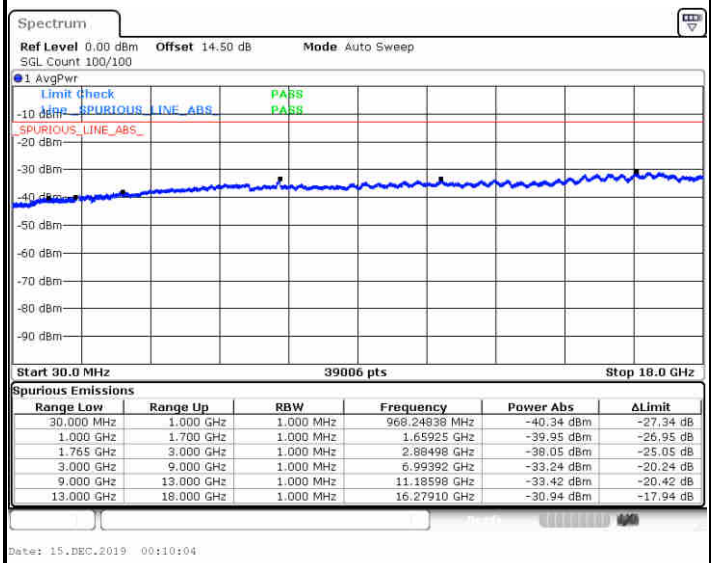



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 901.83658 MHz | -40.23 dBm | -27.23 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.65120 GHz | -40.08 dBm | -27.08 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.83271 GHz | -38.01 dBm | -25.01 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.96792 GHz | -33.39 dBm | -20.39 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.55331 GHz | -33.57 dBm | -20.57 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.53408 GHz | -30.97 dBm | -17.97 dB |

Date: 14.DEC.2019 23:53:48

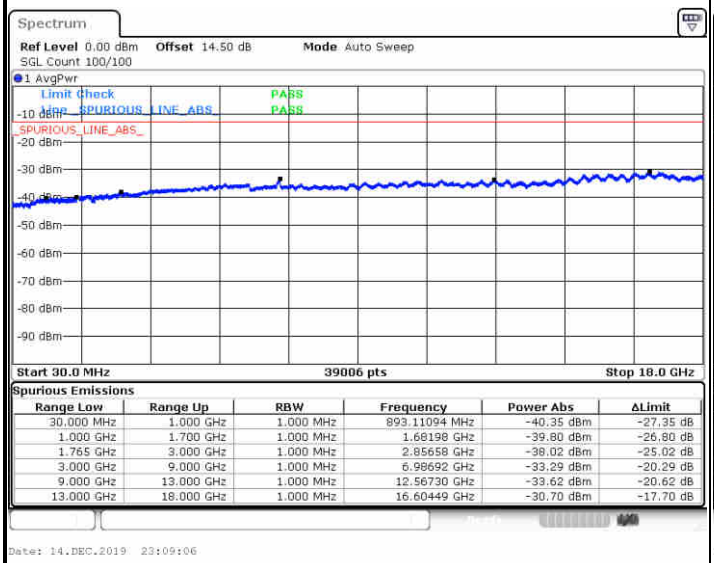
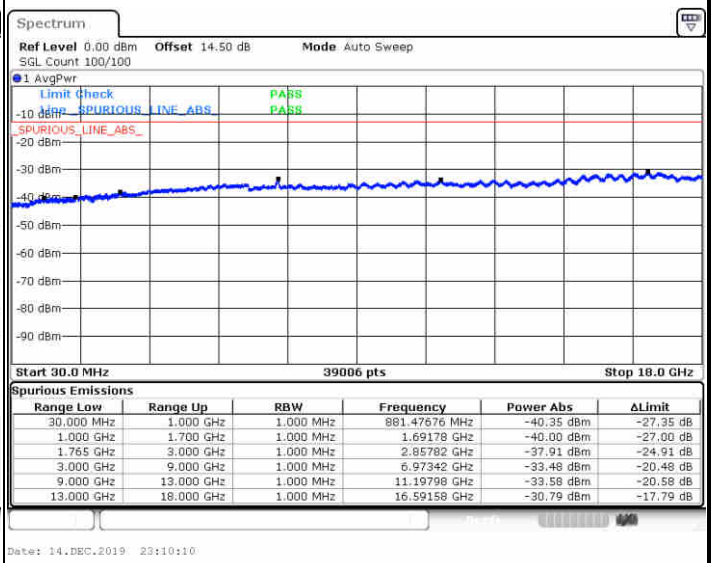
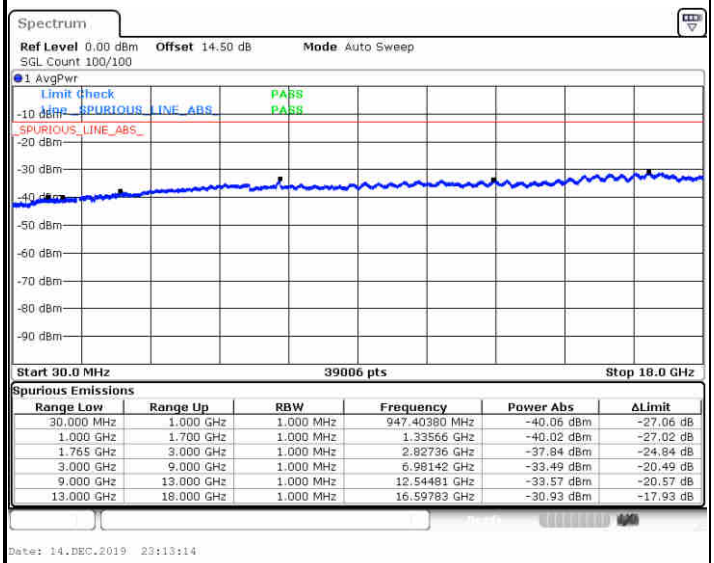
### Highest Channel / 64QAM




Spurious Emissions

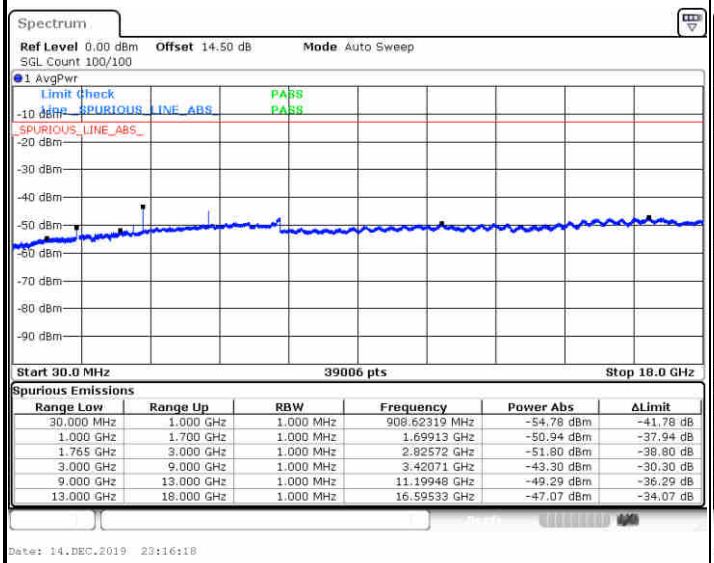
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 968.24838 MHz | -40.34 dBm | -27.34 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.65925 GHz | -39.95 dBm | -26.95 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.88498 GHz | -38.05 dBm | -25.05 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99392 GHz | -33.24 dBm | -20.24 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.18598 GHz | -33.42 dBm | -20.42 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.27910 GHz | -30.94 dBm | -17.94 dB |

Date: 15.DEC.2019 00:10:04

| LTE Band 4 / 3MHz | |
|---|---|
| **Lowest Channel / 64QAM** | **Middle Channel / 64QAM** |
|  |  |
| **Highest Channel / 64QAM** | |
|  | |

## LTE Band 4 / 5MHz

### Lowest Channel / 64QAM

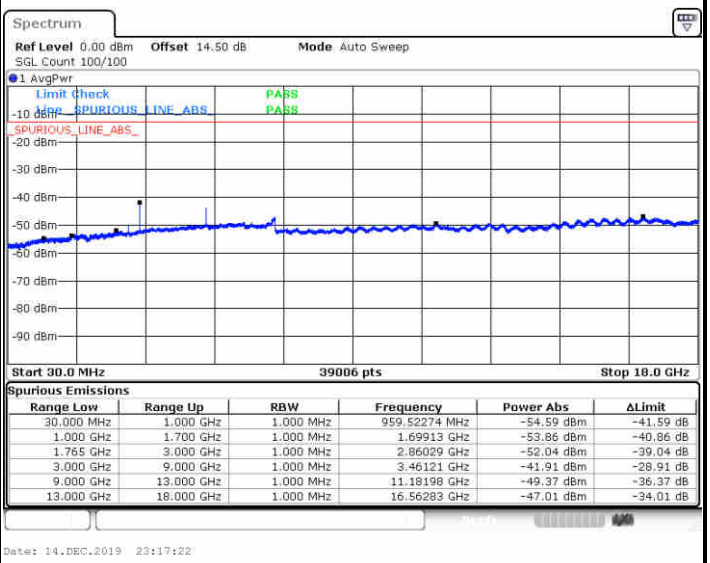



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 908.62319 MHz | -54.78 dBm | -41.78 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69913 GHz | -50.94 dBm | -37.94 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.82572 GHz | -51.80 dBm | -38.80 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.42071 GHz | -43.30 dBm | -30.30 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.19948 GHz | -49.29 dBm | -36.29 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.59533 GHz | -47.07 dBm | -34.07 dB |

Date: 14.DEC.2019 23:16:18

### Middle Channel / 64QAM

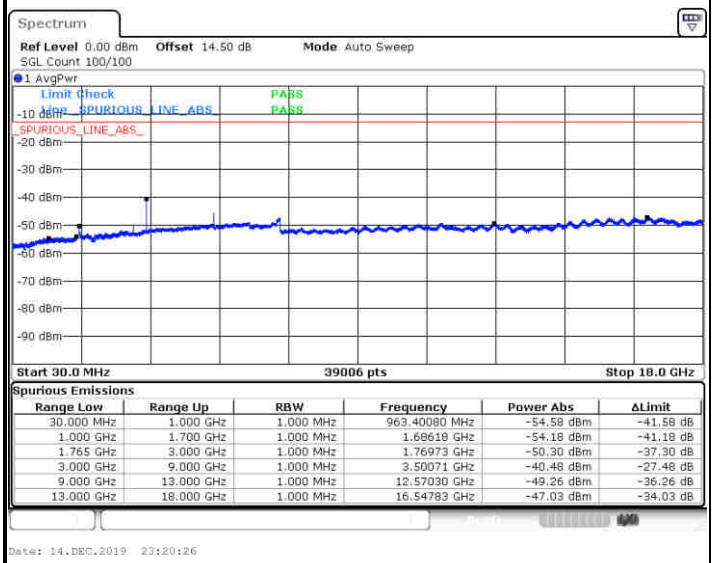



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 959.52274 MHz | -54.59 dBm | -41.59 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69913 GHz | -53.86 dBm | -40.86 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.86029 GHz | -52.04 dBm | -39.04 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.46121 GHz | -41.91 dBm | -28.91 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.18198 GHz | -49.37 dBm | -36.37 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.56283 GHz | -47.01 dBm | -34.01 dB |

Date: 14.DEC.2019 23:17:22

### Highest Channel / 64QAM



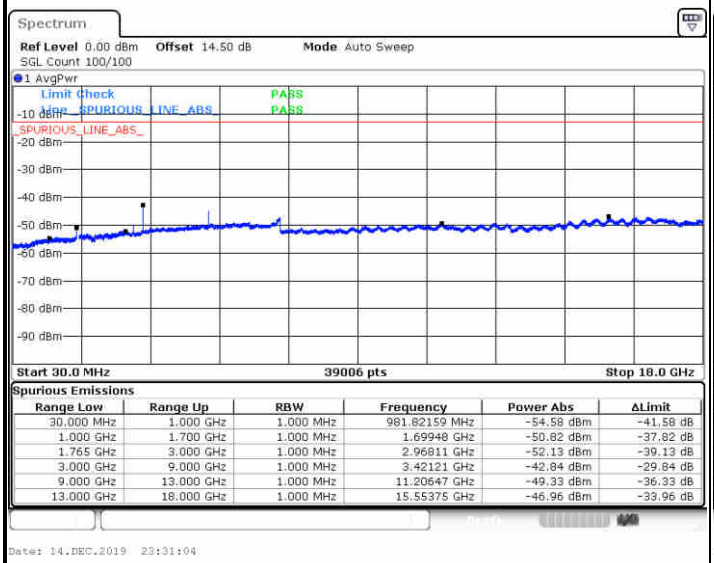

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 963.40080 MHz | -54.58 dBm | -41.58 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.68618 GHz | -54.18 dBm | -41.18 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.76973 GHz | -50.30 dBm | -37.30 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.50071 GHz | -40.48 dBm | -27.48 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.57030 GHz | -49.26 dBm | -36.26 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.54783 GHz | -47.03 dBm | -34.03 dB |

Date: 14.DEC.2019 23:20:26

## LTE Band 4 / 10MHz

### Lowest Channel / 64QAM

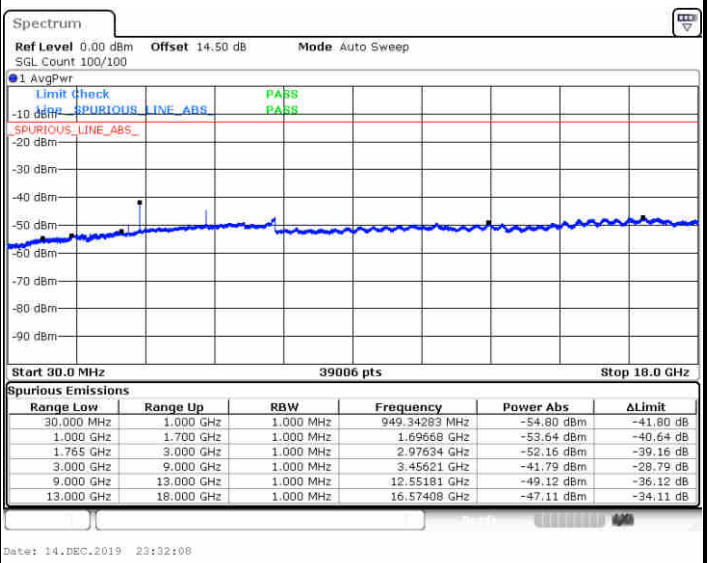



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 981.82159 MHz | -54.58 dBm | -41.58 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69948 GHz | -50.82 dBm | -37.82 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.96811 GHz | -52.13 dBm | -39.13 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.42121 GHz | -42.84 dBm | -29.84 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.20647 GHz | -49.33 dBm | -36.33 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.55375 GHz | -46.96 dBm | -33.96 dB |

Date: 14.DEC.2019 23:31:04

### Middle Channel / 64QAM

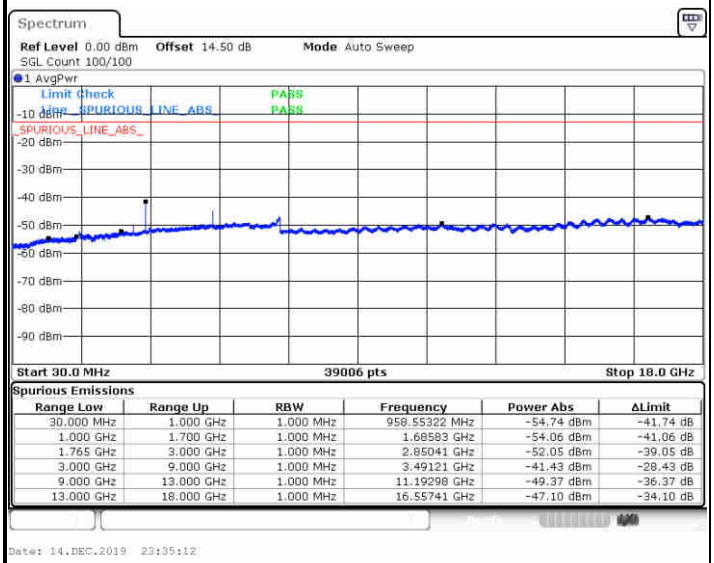



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 949.34283 MHz | -54.80 dBm | -41.80 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69668 GHz | -53.64 dBm | -40.64 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.97634 GHz | -52.16 dBm | -39.16 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.45621 GHz | -41.79 dBm | -28.79 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.55181 GHz | -49.12 dBm | -36.12 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.57408 GHz | -47.11 dBm | -34.11 dB |

Date: 14.DEC.2019 23:32:08

### Highest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 958.55322 MHz | -54.74 dBm | -41.74 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.68583 GHz | -54.06 dBm | -41.06 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.85041 GHz | -52.05 dBm | -39.05 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.49121 GHz | -41.43 dBm | -28.43 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.19298 GHz | -49.37 dBm | -36.37 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.55741 GHz | -47.10 dBm | -34.10 dB |

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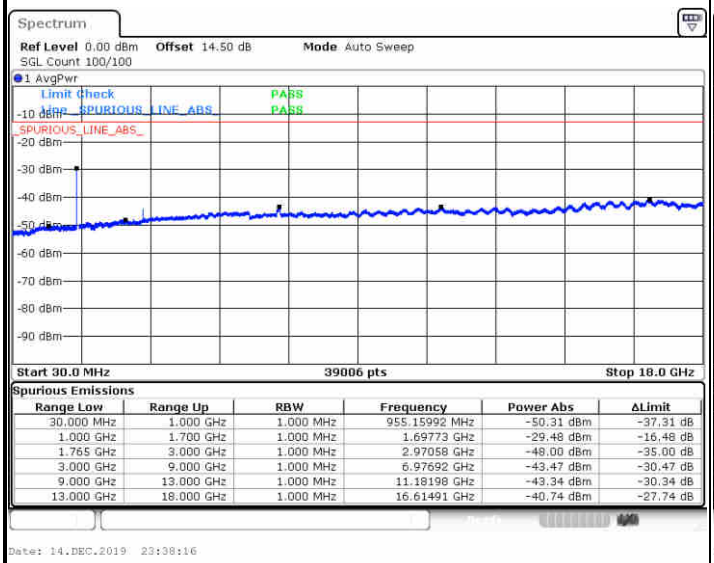
## LTE Band 4 / 15MHz

### Lowest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 955.15992 MHz | -50.31 dBm | -37.31 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69773 GHz | -29.48 dBm | -16.48 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.97058 GHz | -48.00 dBm | -35.00 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.97692 GHz | -43.47 dBm | -30.47 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.18198 GHz | -43.34 dBm | -30.34 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.61491 GHz | -40.74 dBm | -27.74 dB |

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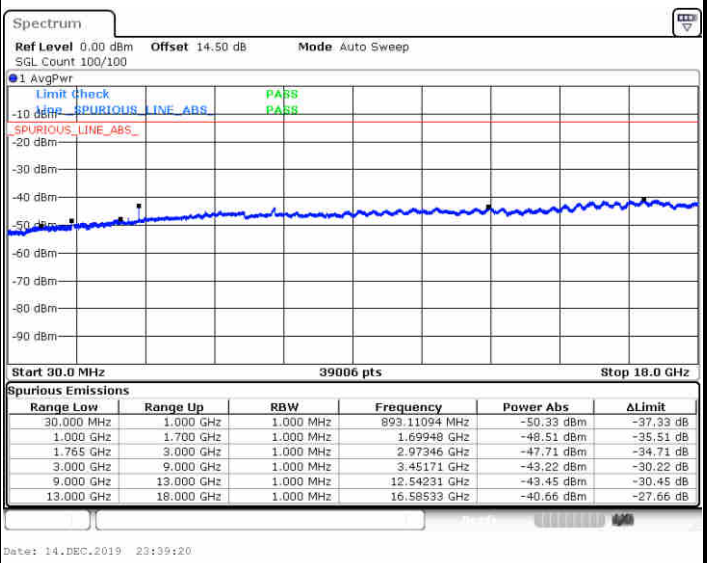
### Middle Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 893.11094 MHz | -50.33 dBm | -37.33 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69948 GHz | -48.51 dBm | -35.51 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.97346 GHz | -47.71 dBm | -34.71 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.45171 GHz | -43.22 dBm | -30.22 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.54231 GHz | -43.45 dBm | -30.45 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.58533 GHz | -40.66 dBm | -27.66 dB |

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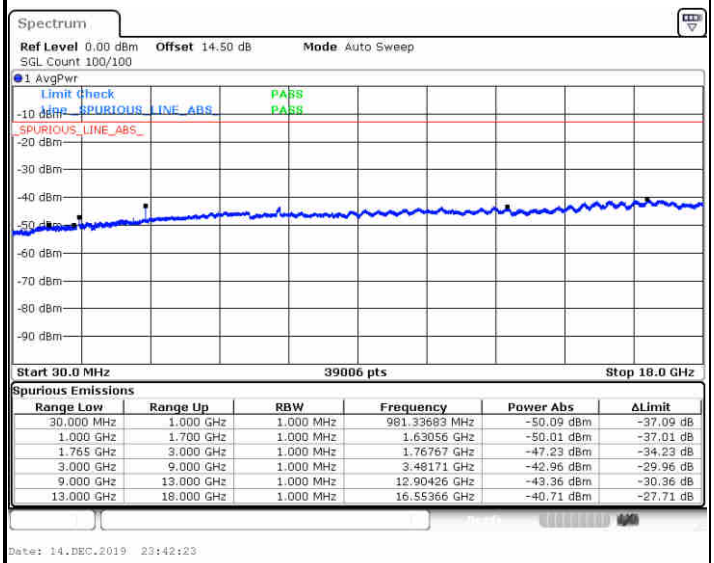
### Highest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 981.33683 MHz | -50.09 dBm | -37.09 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.63056 GHz | -50.01 dBm | -37.01 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.76767 GHz | -47.23 dBm | -34.23 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.48171 GHz | -42.96 dBm | -29.96 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.90426 GHz | -43.36 dBm | -30.36 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.55366 GHz | -40.71 dBm | -27.71 dB |

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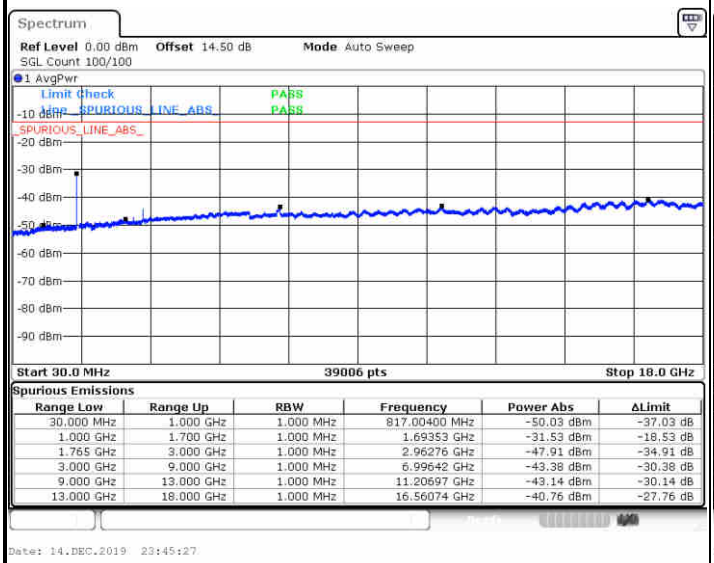
## LTE Band 4 / 20MHz

### Lowest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 817.00400 MHz | -50.03 dBm | -37.03 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69353 GHz | -31.53 dBm | -18.53 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.96276 GHz | -47.91 dBm | -34.91 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99642 GHz | -43.38 dBm | -30.38 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.20697 GHz | -43.14 dBm | -30.14 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.56074 GHz | -40.76 dBm | -27.76 dB |

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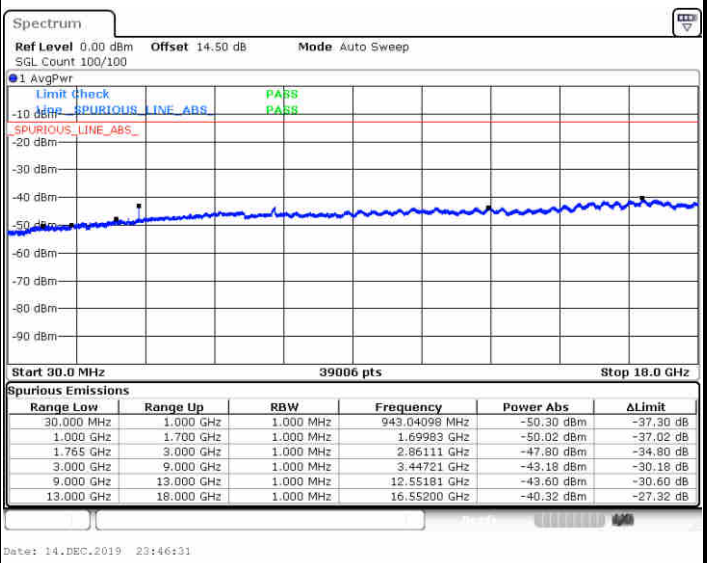
### Middle Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 943.04098 MHz | -50.30 dBm | -37.30 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69983 GHz | -50.02 dBm | -37.02 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.86111 GHz | -47.80 dBm | -34.80 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.44721 GHz | -43.18 dBm | -30.18 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.55181 GHz | -43.60 dBm | -30.60 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.55200 GHz | -40.32 dBm | -27.32 dB |

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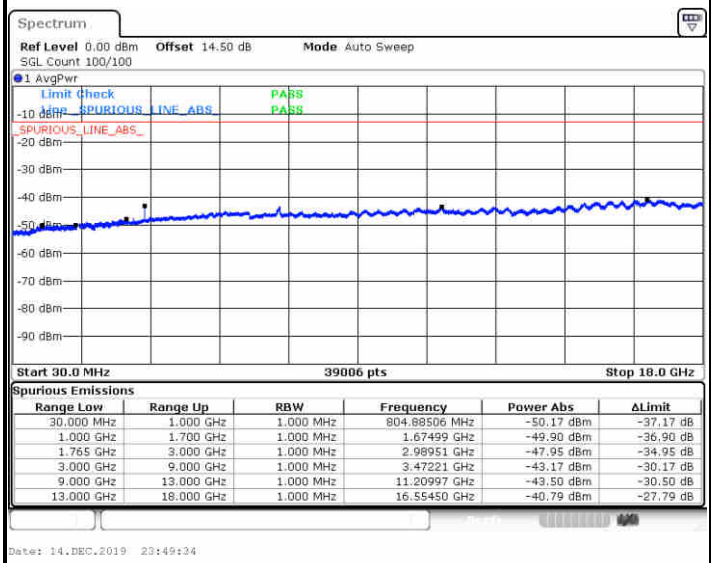
### Highest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 804.88506 MHz | -50.17 dBm | -37.17 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.67499 GHz | -49.90 dBm | -36.90 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98951 GHz | -47.95 dBm | -34.95 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.47221 GHz | -43.17 dBm | -30.17 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.20997 GHz | -43.50 dBm | -30.50 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.55450 GHz | -40.79 dBm | -27.79 dB |

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# Frequency Stability

| Test Conditions | | LTE Band 4 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0059 | PASS |
| 40 | Normal Voltage | 0.0313 | |
| 30 | Normal Voltage | 0.0102 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0073 | |
| 0 | Normal Voltage | 0.0103 | |
| -10 | Normal Voltage | 0.0196 | |
| -20 | Normal Voltage | 0.0012 | |
| -30 | Normal Voltage | 0.0120 | |
| 20 | Maximum Voltage | 0.0301 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0048 | |

**Note:**

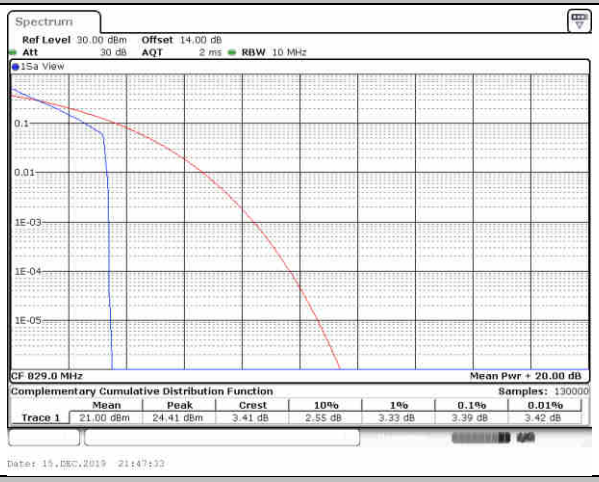
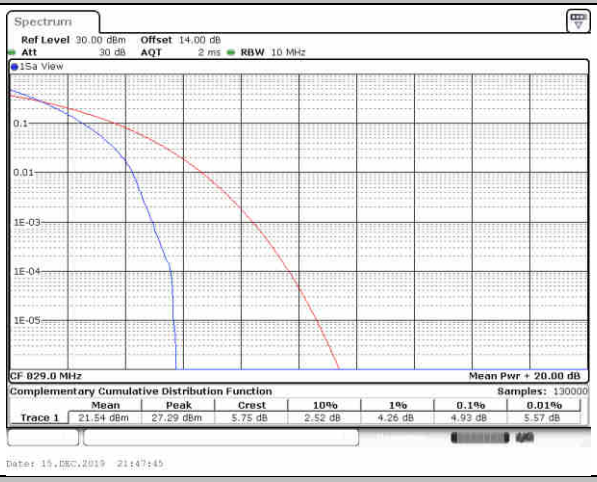
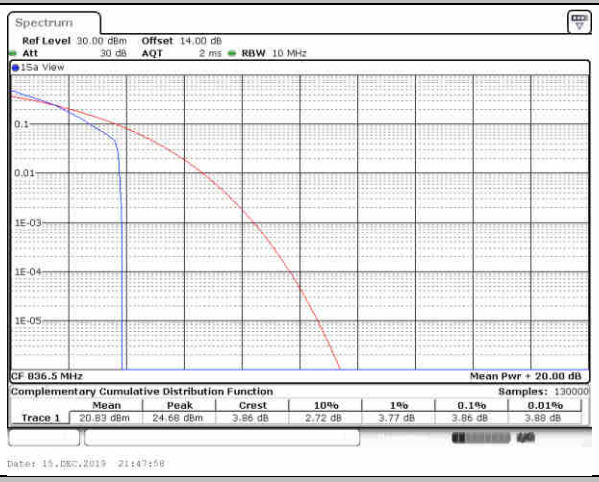
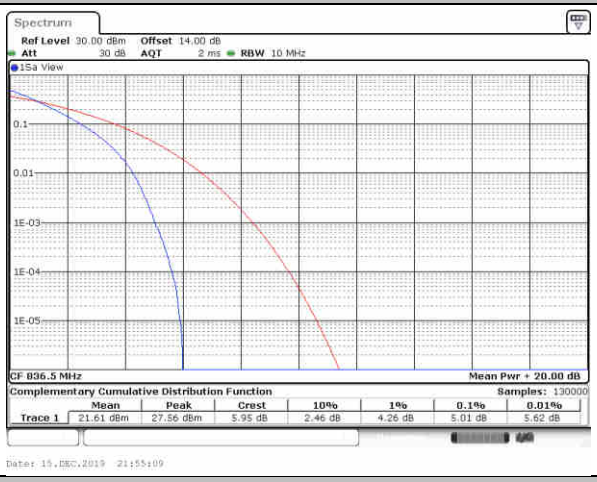
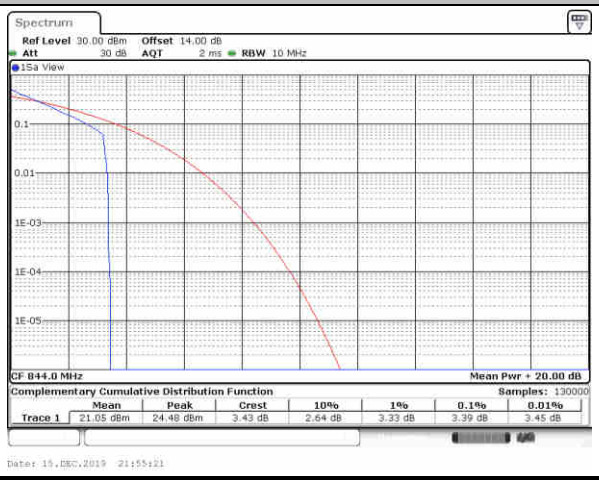
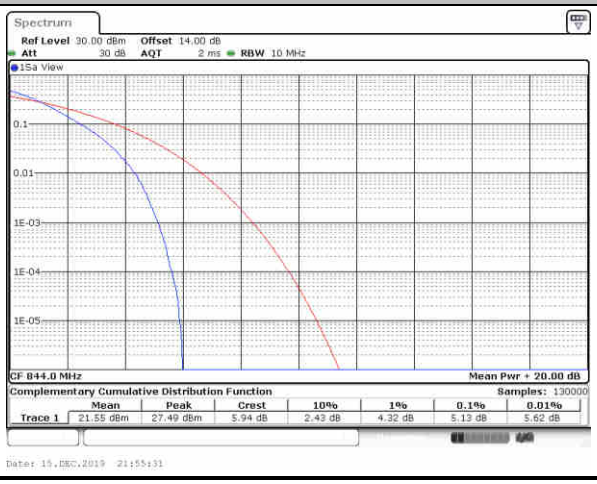
**1.** Normal Voltage =3.87 V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.45 V.

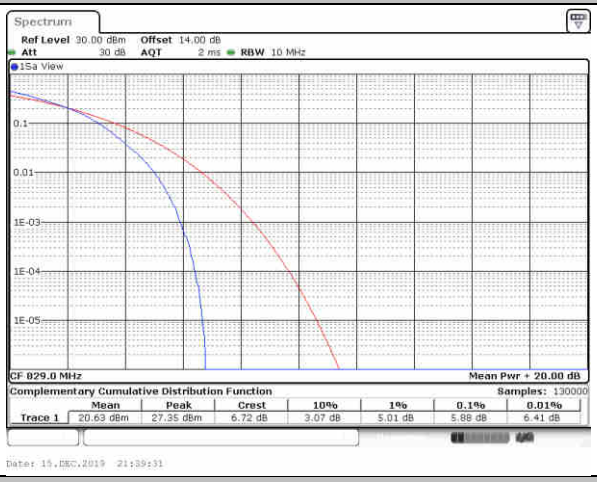
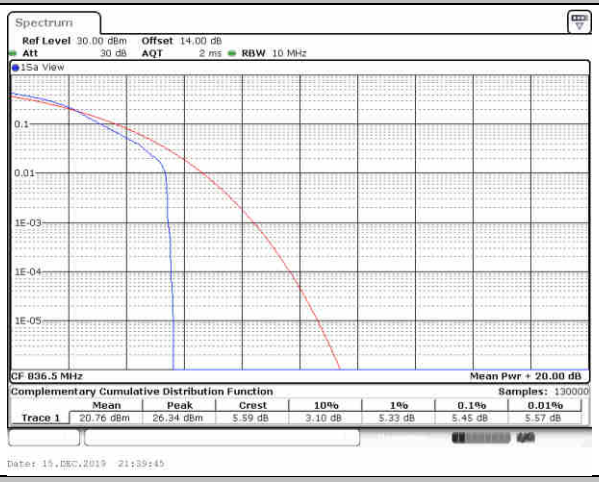
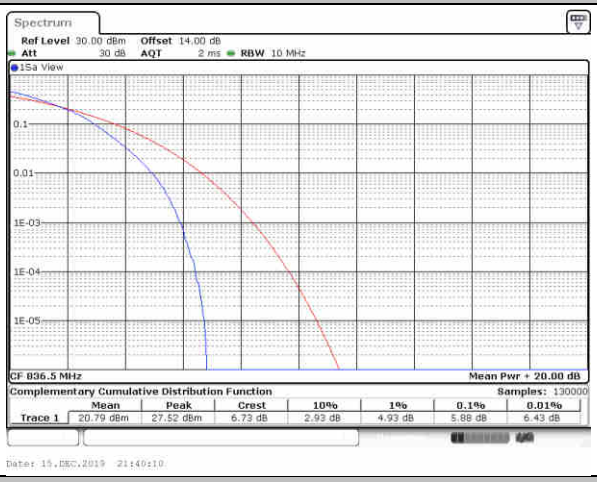
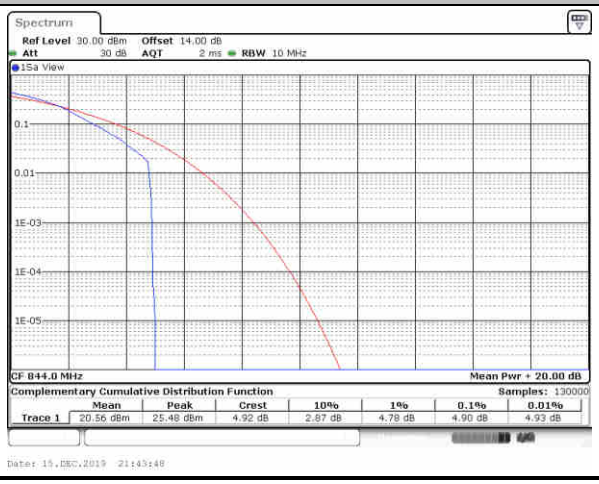
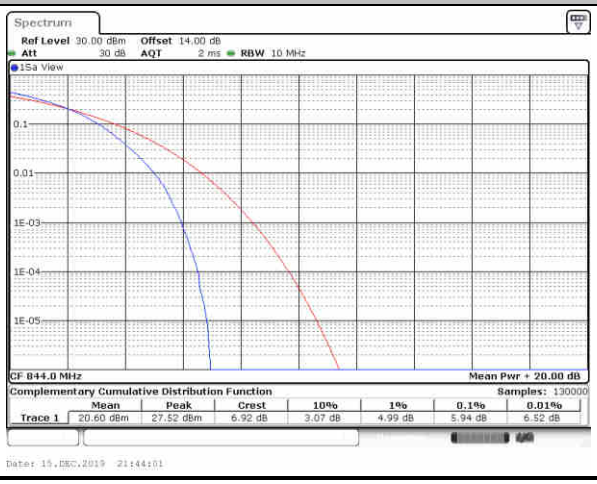
**2.** Note: The frequency fundamental emissions stay within the authorized frequency block.

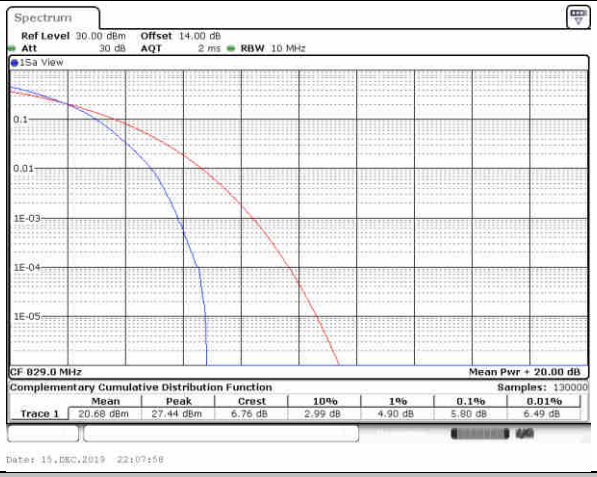
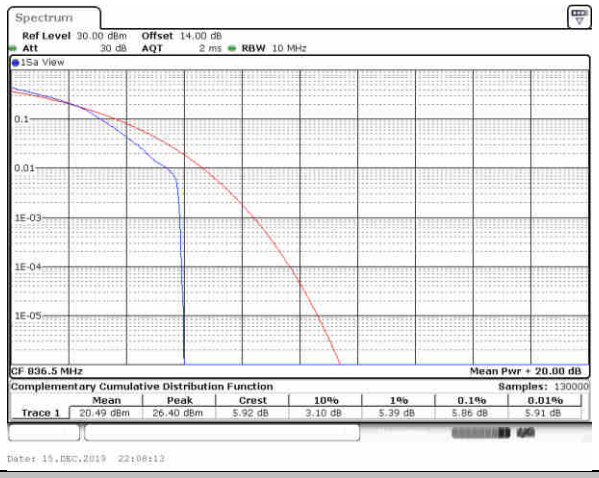
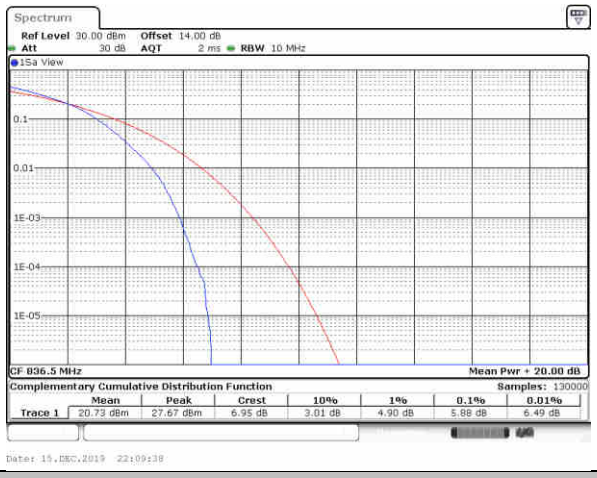
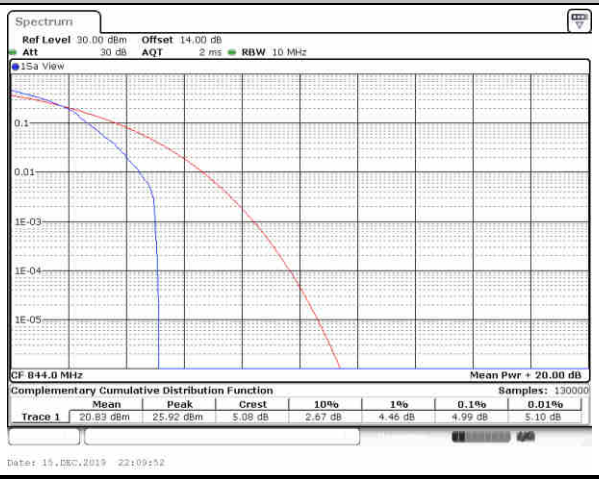
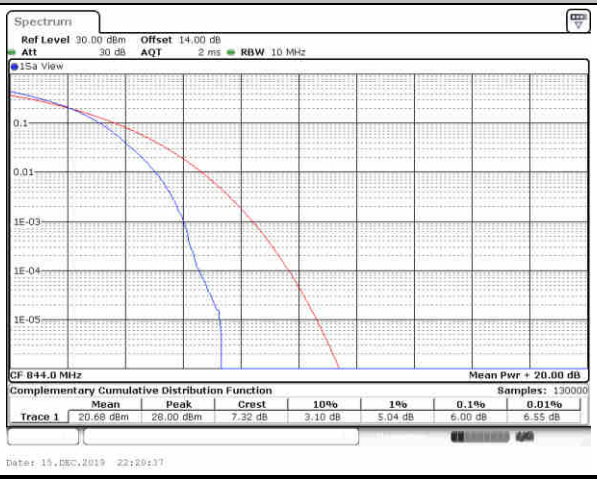
# LTE Band 5

## Peak-to-Average Ratio

| Mode | LTE Band 5 / 10MHz | | | | |
|---|---|---|---|---|---|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 3.39 | 4.93 | 5.19 | 5.88 | PASS |
| Middle CH | 3.86 | 5.01 | 5.45 | 5.88 | |
| Highest CH | 3.39 | 5.13 | 4.90 | 5.94 | |
| Mode | LTE Band 5 / 10MHz | | | | |
| Mod. | 64QAM | | | | Limit: 13dB |
| RB Size | 1RB | Full RB | | | Result |
| Lowest CH | 5.25 | 5.80 | - | - | PASS |
| Middle CH | 5.86 | 5.88 | - | - | |
| Highest CH | 4.99 | 6.00 | - | - | |

| LTE Band 5 / 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 5 / 10MHz / 16QAM | |
|---|---|
| **Lowest Channel / 1RB** | **Lowest Channel / Full RB** |
| |  |
| **Middle Channel / 1RB** | **Middle Channel / Full RB** |
|  |  |
| **Highest Channel / 1RB** | **Highest Channel / Full RB** |
|  |  |

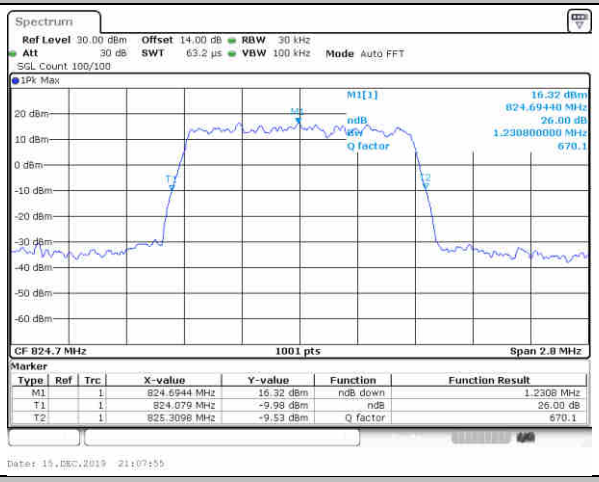
| LTE Band 5 / 10MHz / 64QAM | |
|---|---|
| **Lowest Channel / 1RB** | **Lowest Channel / Full RB** |
| |  |
| **Middle Channel / 1RB** | **Middle Channel / Full RB** |
|  |  |
| **Highest Channel / 1RB** | **Highest Channel / Full RB** |
|  |  |

# 26dB Bandwidth

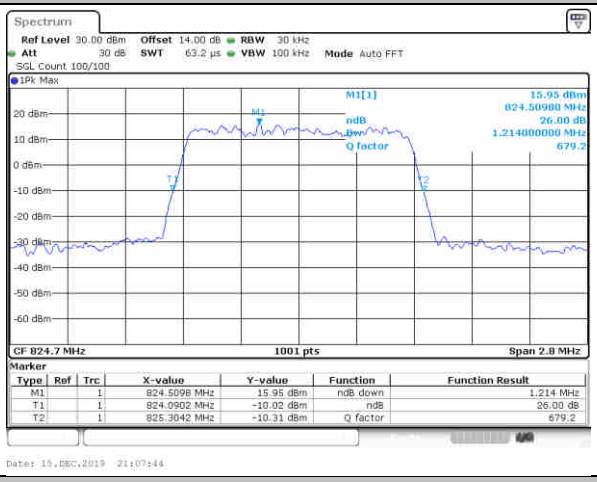
| Mode | LTE Band 5 : 26dB BW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.23 | 1.21 | 3.01 | 2.97 | 4.91 | 4.86 | 9.81 | 9.83 | - | - | - | - |
| Middle CH | 1.21 | 1.22 | 3.03 | 3.01 | 4.91 | 4.85 | 9.81 | 9.77 | - | - | - | - |
| Highest CH | 1.21 | 1.22 | 3.03 | 3.05 | 4.92 | 4.91 | 9.79 | 9.85 | - | - | - | - |
| Mode | LTE Band 5 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | 1.22 | - | 3.03 | - | 4.86 | - | 9.69 | - | - | - | - | - |
| Middle CH | 1.22 | - | 3.05 | - | 4.90 | - | 9.81 | - | - | - | - | - |
| Highest CH | 1.23 | - | 2.99 | - | 4.87 | - | 9.75 | - | - | - | - | - |

## LTE Band 5

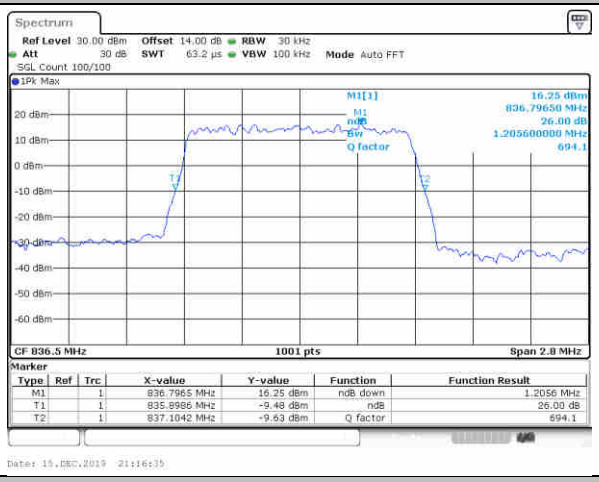
### Lowest Channel / 1.4MHz / QPSK



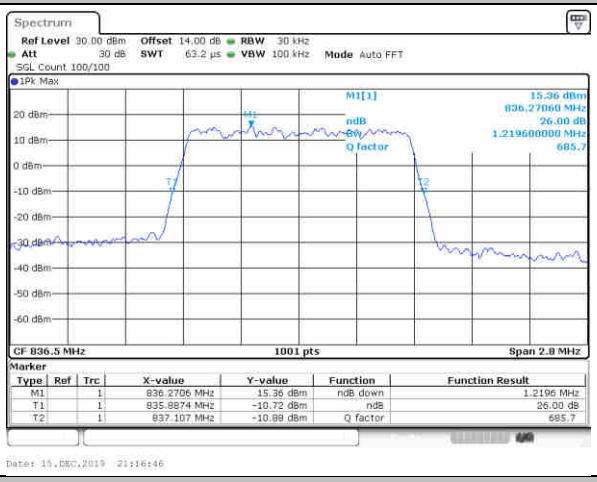

### Lowest Channel / 1.4MHz / 16QAM



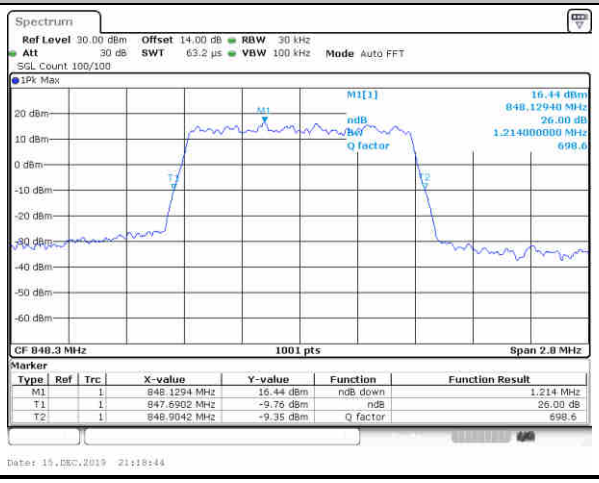

### Middle Channel / 1.4MHz / QPSK



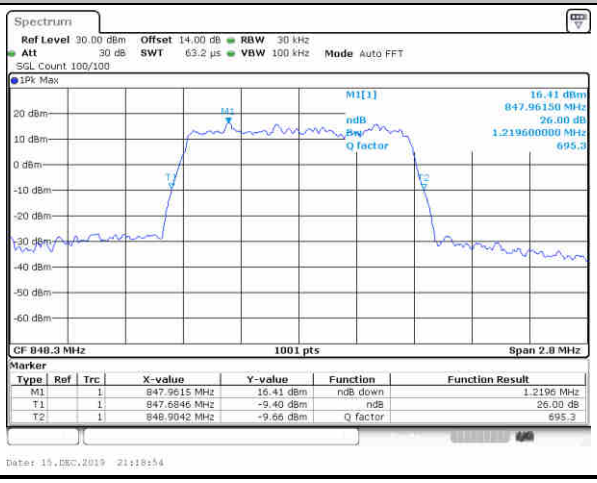

### Middle Channel / 1.4MHz / 16QAM




### Highest Channel / 1.4MHz / QPSK

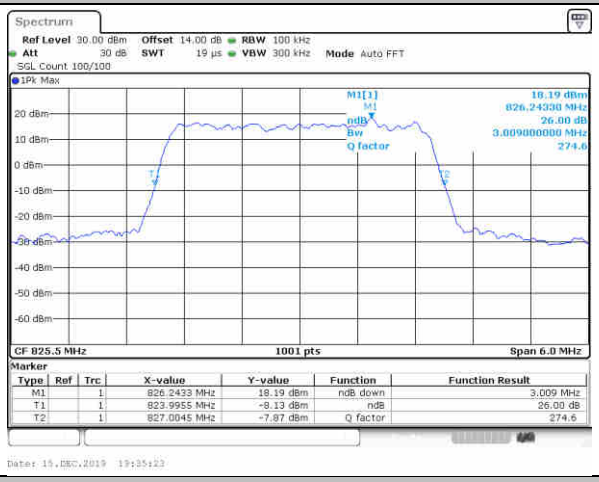



### Highest Channel / 1.4MHz / 16QAM

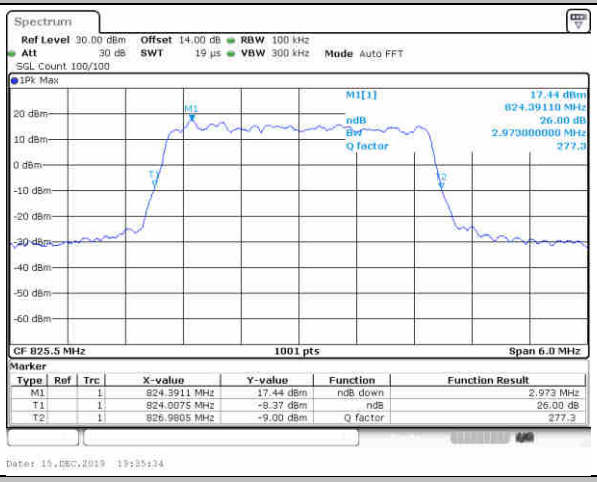


## LTE Band 5

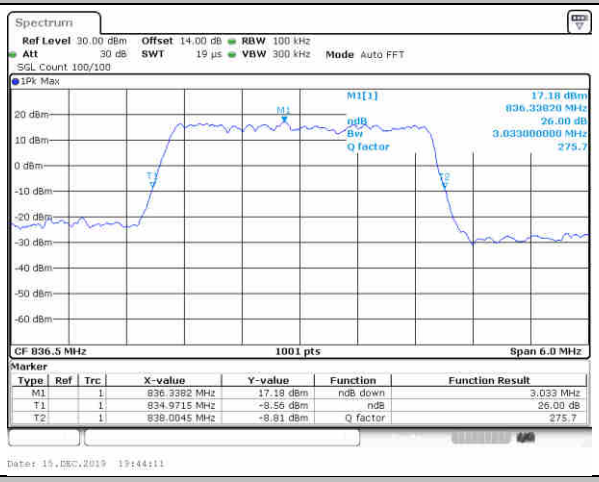
### Lowest Channel / 3MHz / QPSK



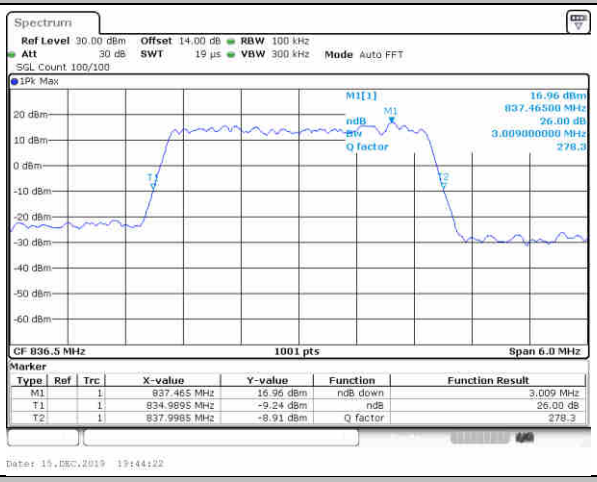

### Lowest Channel / 3MHz / 16QAM



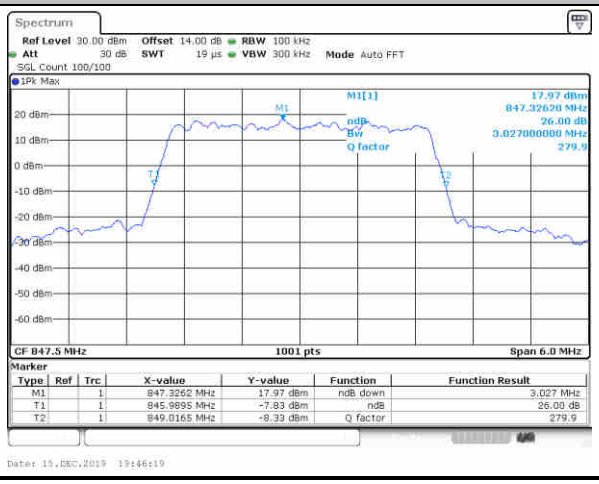

### Middle Channel / 3MHz / QPSK



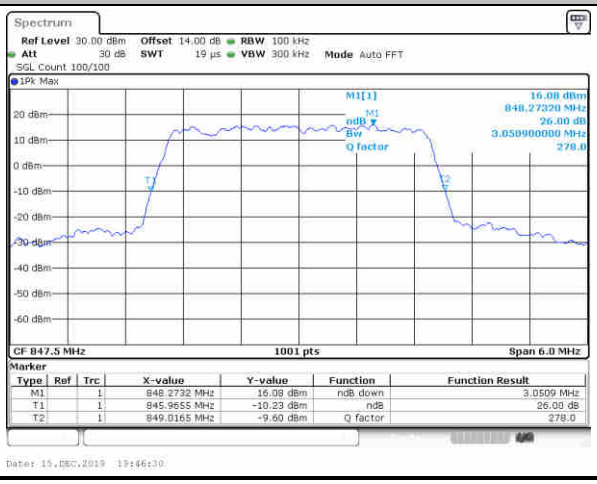

### Middle Channel / 3MHz / 16QAM




### Highest Channel / 3MHz / QPSK

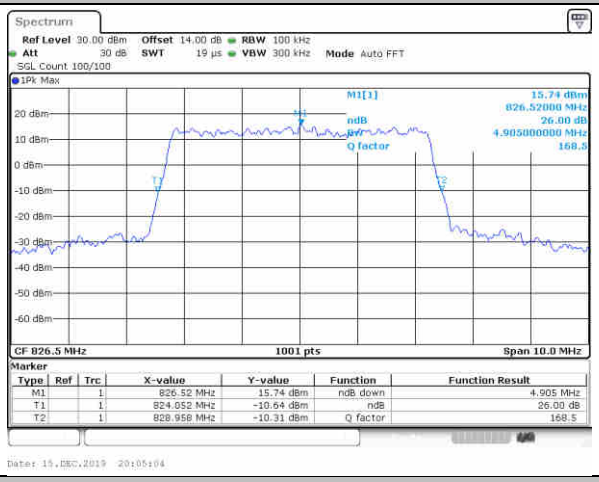



### Highest Channel / 3MHz / 16QAM

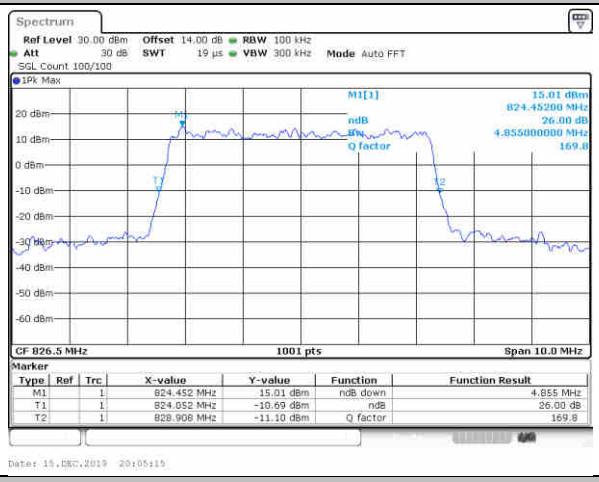


## LTE Band 5

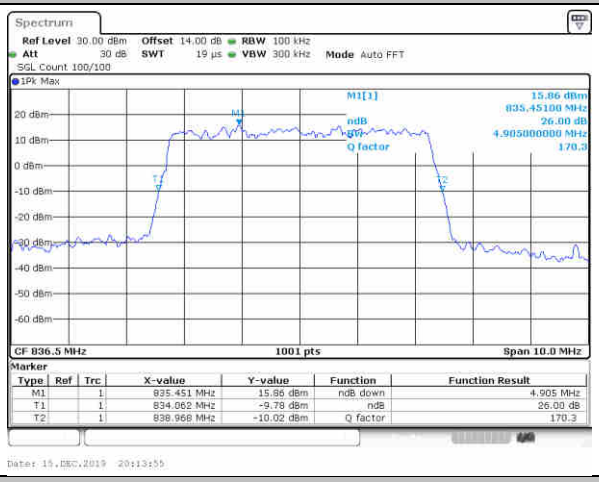
### Lowest Channel / 5MHz / QPSK



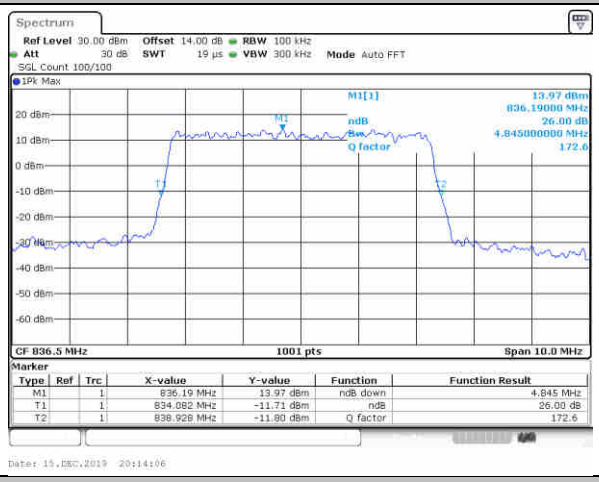

### Lowest Channel / 5MHz / 16QAM



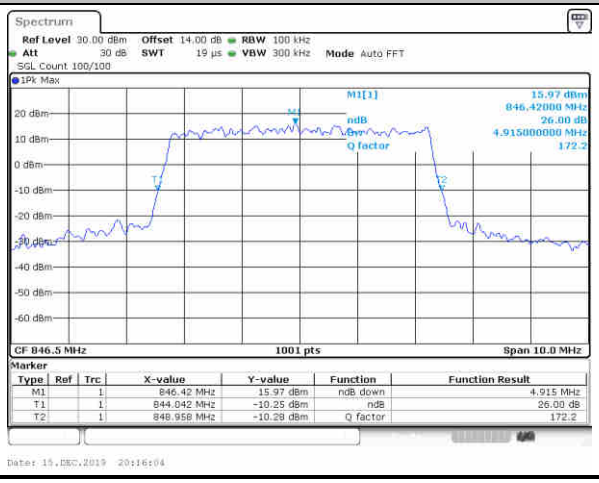

### Middle Channel / 5MHz / QPSK



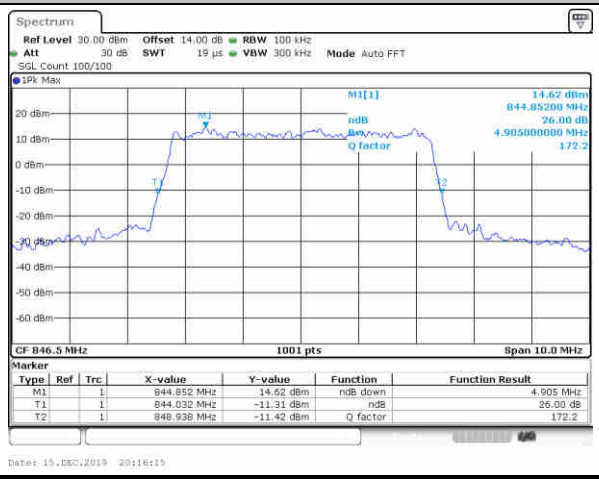

### Middle Channel / 5MHz / 16QAM




### Highest Channel / 5MHz / QPSK

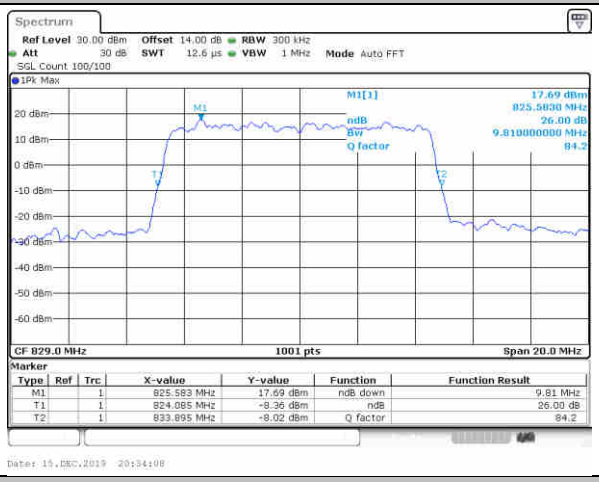



### Highest Channel / 5MHz / 16QAM

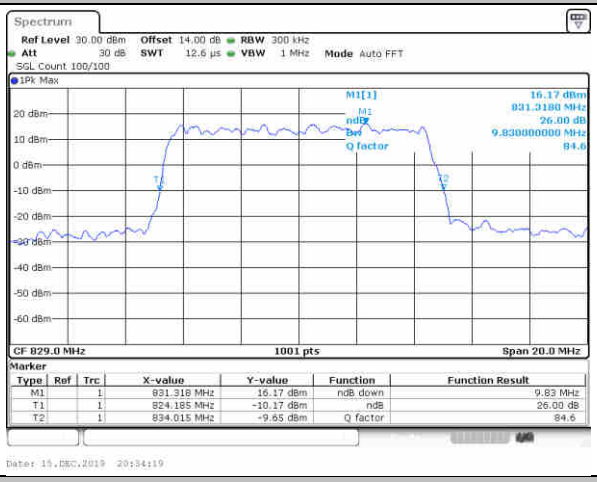


## LTE Band 5

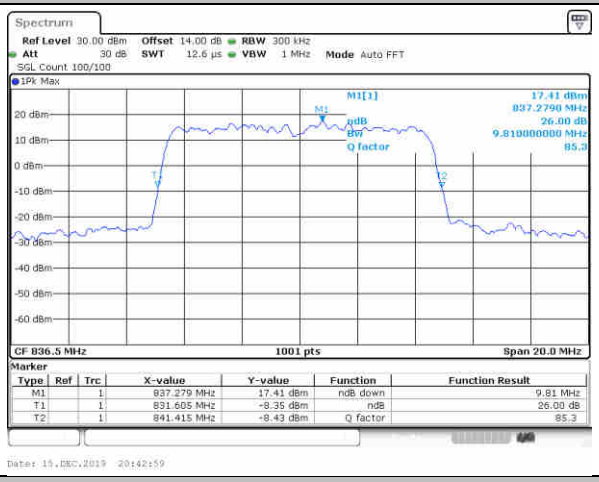
### Lowest Channel / 10MHz / QPSK



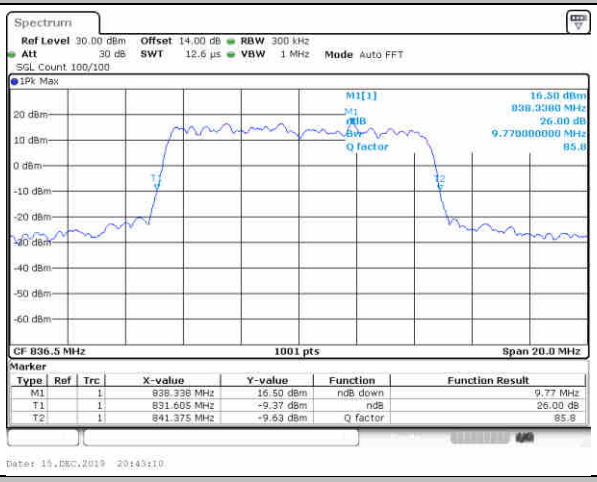

### Lowest Channel / 10MHz / 16QAM



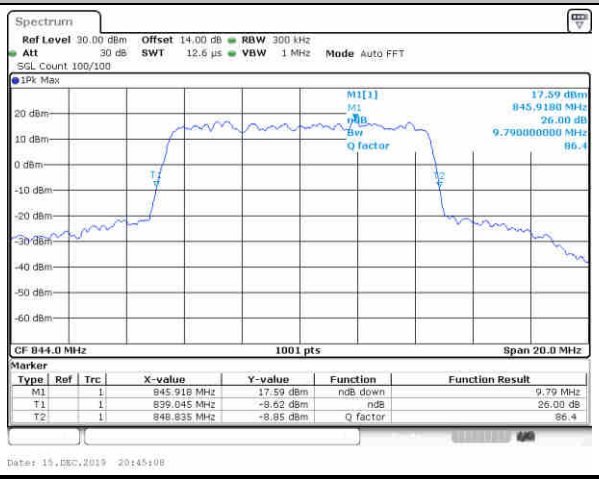

### Middle Channel / 10MHz / QPSK

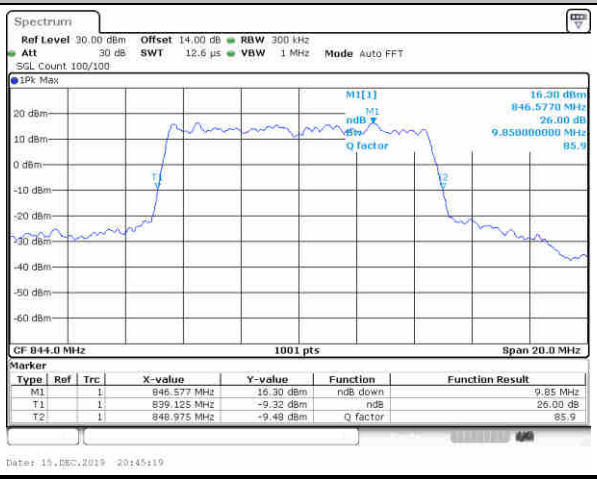



### Middle Channel / 10MHz / 16QAM




### Highest Channel / 10MHz / QPSK




### Highest Channel / 10MHz / 16QAM