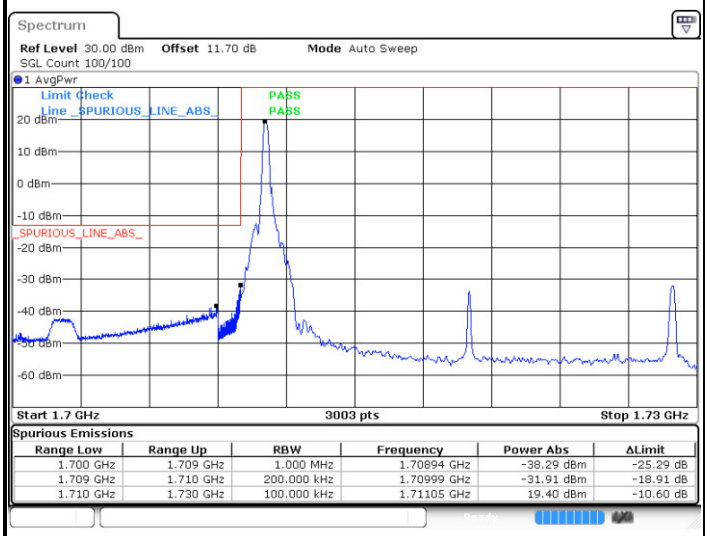
## LTE Band 4 / 20MHz / 64QAM

### Lowest Band Edge / 1 RB

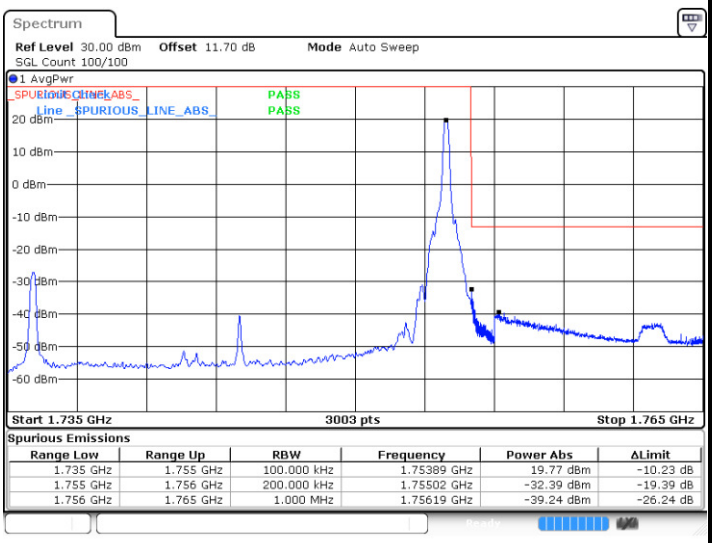



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 1.700 GHz | 1.709 GHz | 1.000 MHz | 1.70894 GHz | -38.29 dBm | -25.29 dB |
| 1.709 GHz | 1.710 GHz | 200.000 kHz | 1.70999 GHz | -31.91 dBm | -18.91 dB |
| 1.710 GHz | 1.730 GHz | 100.000 kHz | 1.71105 GHz | 19.40 dBm | -10.60 dB |

Date: 31.JAN.2018 22:18:23

### Highest Band Edge / 1 RB

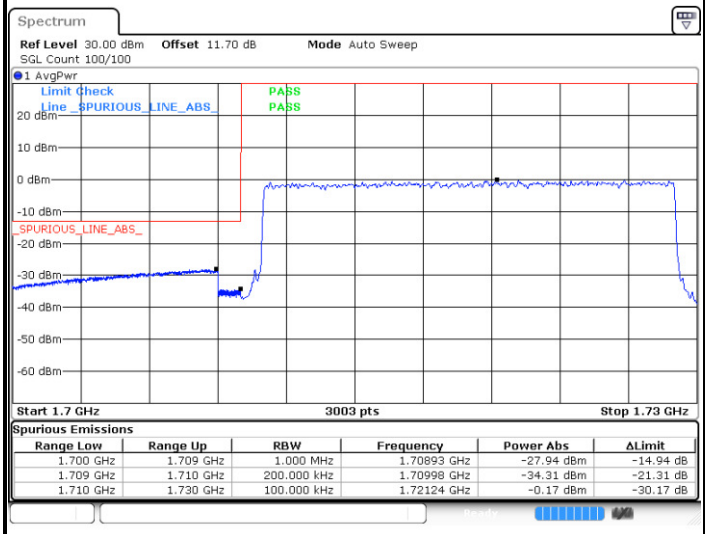



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 1.735 GHz | 1.755 GHz | 100.000 kHz | 1.75389 GHz | 19.77 dBm | -10.23 dB |
| 1.755 GHz | 1.756 GHz | 200.000 kHz | 1.75502 GHz | -32.39 dBm | -19.39 dB |
| 1.756 GHz | 1.765 GHz | 1.000 MHz | 1.75619 GHz | -39.24 dBm | -26.24 dB |

Date: 31.JAN.2018 22:23:09

### Lowest Band Edge / Full RB

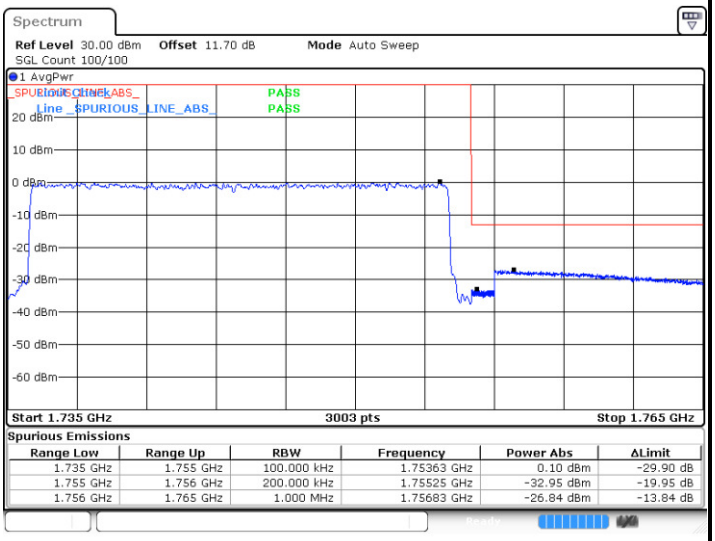



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 1.700 GHz | 1.709 GHz | 1.000 MHz | 1.70893 GHz | -27.94 dBm | -14.94 dB |
| 1.709 GHz | 1.710 GHz | 200.000 kHz | 1.70998 GHz | -34.31 dBm | -21.31 dB |
| 1.710 GHz | 1.730 GHz | 100.000 kHz | 1.72124 GHz | -0.17 dBm | -30.17 dB |

Date: 31.JAN.2018 22:19:32

### Highest Band Edge / Full RB




Spurious Emissions

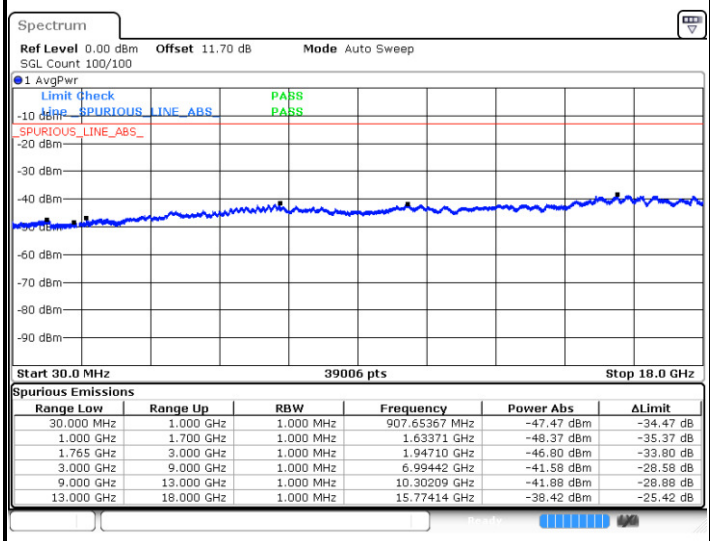
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 1.735 GHz | 1.755 GHz | 100.000 kHz | 1.75363 GHz | 0.10 dBm | -29.90 dB |
| 1.755 GHz | 1.756 GHz | 200.000 kHz | 1.75525 GHz | -32.95 dBm | -19.95 dB |
| 1.756 GHz | 1.765 GHz | 1.000 MHz | 1.75683 GHz | -26.84 dBm | -13.84 dB |

Date: 31.JAN.2018 22:24:17

# Conducted Spurious Emission

## LTE Band 4 / 1.4MHz

### Lowest Channel / QPSK

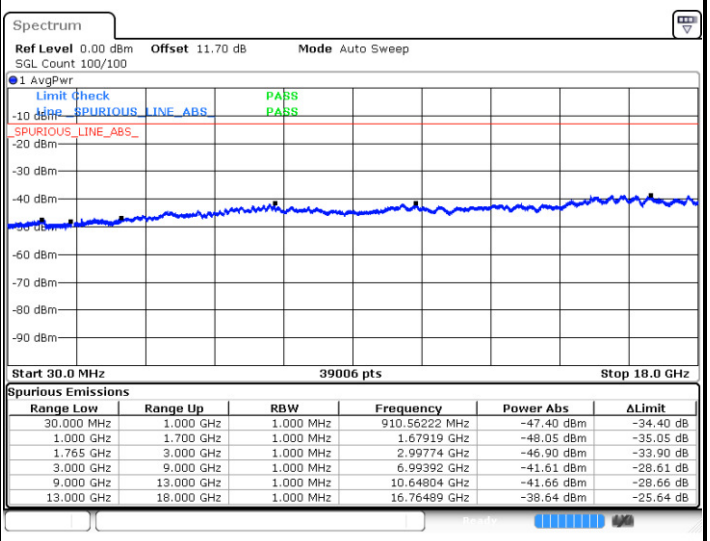



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 907.65367 MHz | -47.47 dBm | -34.47 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.63371 GHz | -48.37 dBm | -35.37 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.94710 GHz | -46.80 dBm | -33.80 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99442 GHz | -41.58 dBm | -28.58 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30209 GHz | -41.88 dBm | -28.88 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77414 GHz | -38.42 dBm | -25.42 dB |

Date: 13.JAN.2018 00:25:05

### Lowest Channel / 16QAM

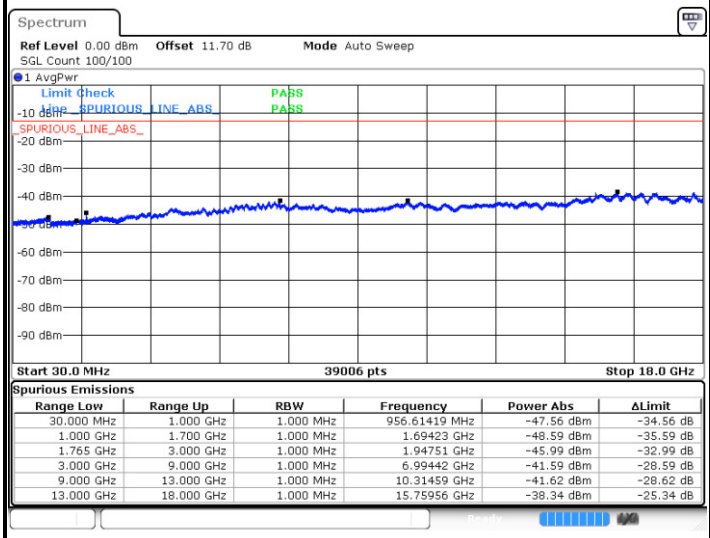



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 910.56222 MHz | -47.40 dBm | -34.40 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.67919 GHz | -48.05 dBm | -35.05 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99774 GHz | -46.90 dBm | -33.90 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99392 GHz | -41.61 dBm | -28.61 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.64804 GHz | -41.66 dBm | -28.66 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.76489 GHz | -38.64 dBm | -25.64 dB |

Date: 13.JAN.2018 00:25:59

### Middle Channel / QPSK

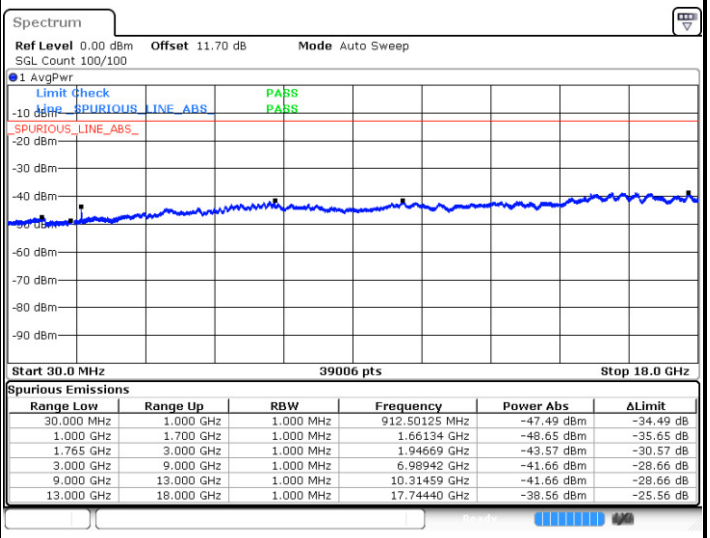



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 956.61419 MHz | -47.56 dBm | -34.56 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69423 GHz | -48.59 dBm | -35.59 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.94751 GHz | -45.99 dBm | -32.99 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99442 GHz | -41.59 dBm | -28.59 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.31459 GHz | -41.62 dBm | -28.62 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.75956 GHz | -38.34 dBm | -25.34 dB |

Date: 13.JAN.2018 00:27:33

### Middle Channel / 16QAM



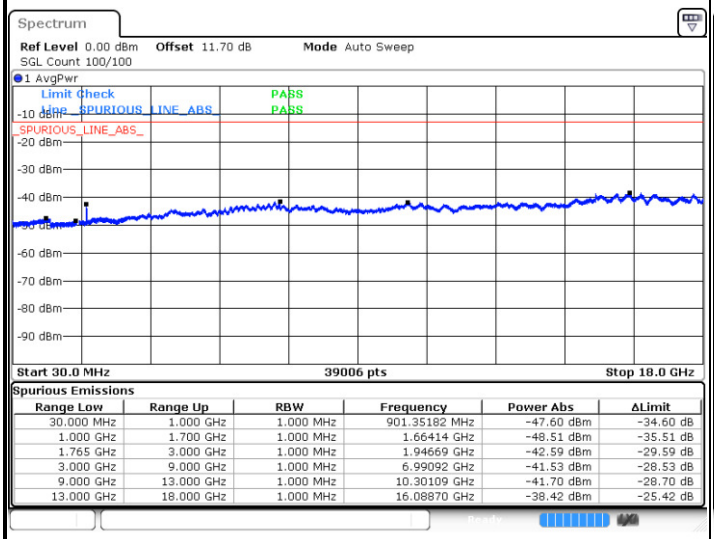

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 912.50125 MHz | -47.49 dBm | -34.49 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.66134 GHz | -48.65 dBm | -35.65 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.94669 GHz | -43.57 dBm | -30.57 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.98942 GHz | -41.66 dBm | -28.66 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.31459 GHz | -41.66 dBm | -28.66 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 17.74440 GHz | -38.56 dBm | -25.56 dB |

Date: 13.JAN.2018 00:28:27

## LTE Band 4 / 1.4MHz

### Highest Channel / QPSK

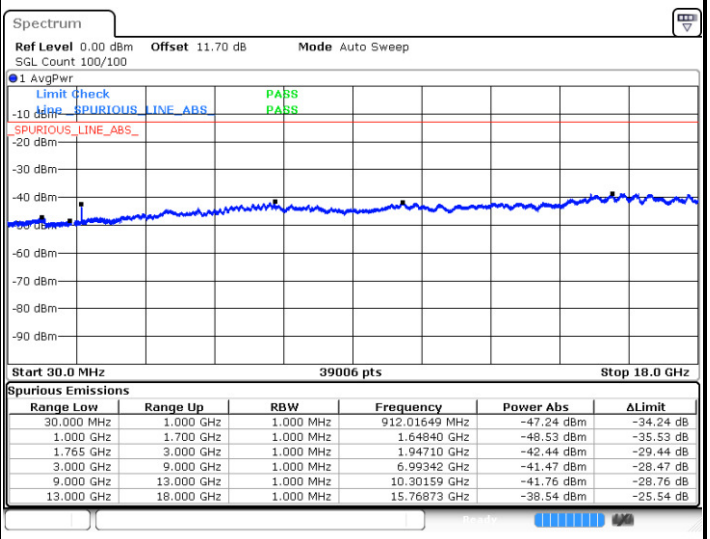



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 901.35182 MHz | -47.60 dBm | -34.60 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.66414 GHz | -48.51 dBm | -35.51 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.94669 GHz | -42.59 dBm | -29.59 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99092 GHz | -41.53 dBm | -28.53 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30109 GHz | -41.70 dBm | -28.70 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.08870 GHz | -38.42 dBm | -25.42 dB |

Date: 13.JAN.2018 00:34:36

### Highest Channel / 16QAM



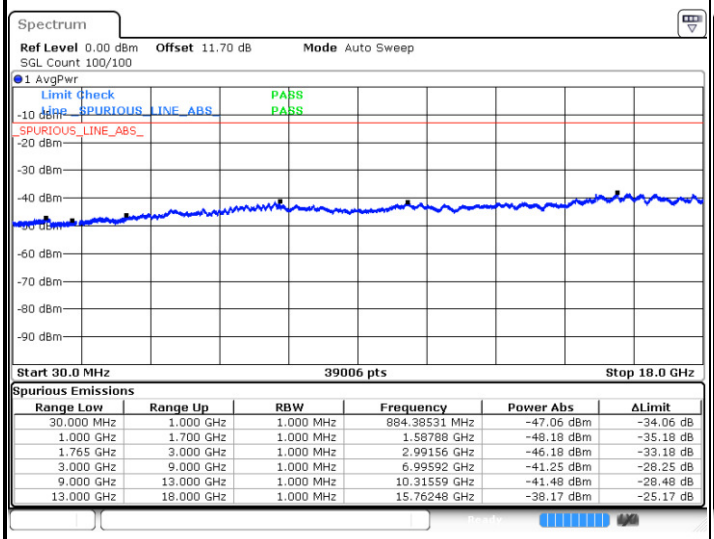

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 912.01649 MHz | -47.24 dBm | -34.24 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.64840 GHz | -48.53 dBm | -35.53 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.94710 GHz | -42.44 dBm | -29.44 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99342 GHz | -41.47 dBm | -28.47 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30159 GHz | -41.76 dBm | -28.76 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76873 GHz | -38.54 dBm | -25.54 dB |

Date: 13.JAN.2018 00:35:30

## LTE Band 4 / 3MHz

### Lowest Channel / QPSK

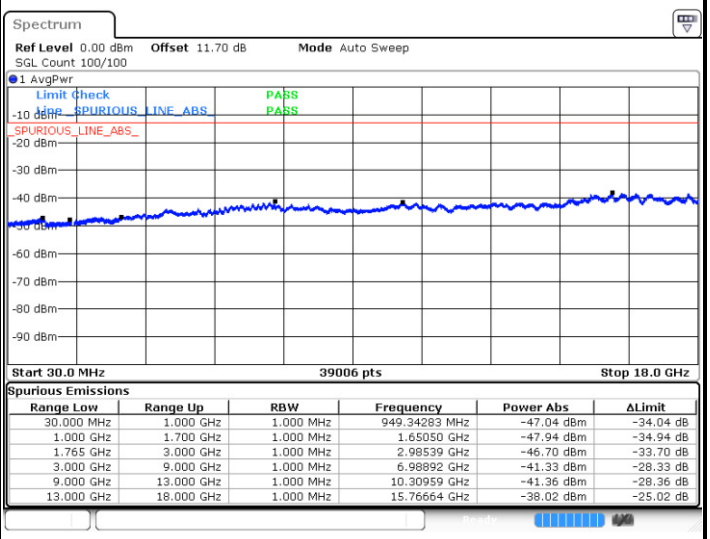



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 884.38531 MHz | -47.06 dBm | -34.06 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.58788 GHz | -48.18 dBm | -35.18 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99156 GHz | -46.18 dBm | -33.18 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99592 GHz | -41.25 dBm | -28.25 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.31559 GHz | -41.48 dBm | -28.48 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76248 GHz | -38.17 dBm | -25.17 dB |

Date: 10.JAN.2018 20:59:10

### Lowest Channel / 16QAM



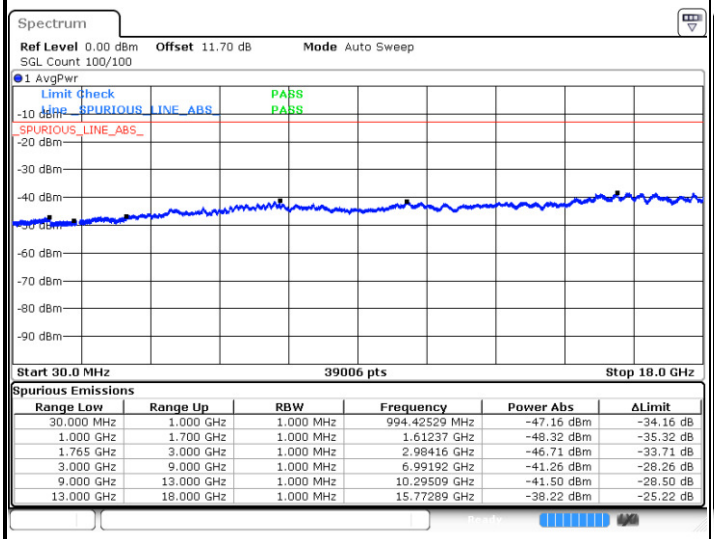

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 949.34283 MHz | -47.04 dBm | -34.04 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.65050 GHz | -47.94 dBm | -34.94 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98539 GHz | -46.70 dBm | -33.70 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.98892 GHz | -41.33 dBm | -28.33 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30959 GHz | -41.36 dBm | -28.36 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76664 GHz | -38.02 dBm | -25.02 dB |

Date: 10.JAN.2018 21:00:05

## LTE Band 4 / 3MHz

### Middle Channel / QPSK

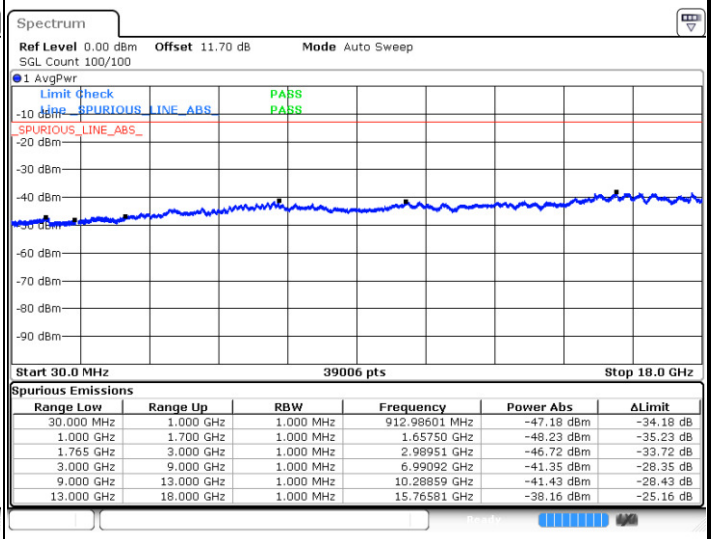



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 994.42529 MHz | -47.16 dBm | -34.16 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.61237 GHz | -48.32 dBm | -35.32 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98416 GHz | -46.71 dBm | -33.71 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99192 GHz | -41.26 dBm | -28.26 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.29509 GHz | -41.50 dBm | -28.50 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77289 GHz | -38.22 dBm | -25.22 dB |

Date: 10.JAN.2018 21:01:38

### Middle Channel / 16QAM

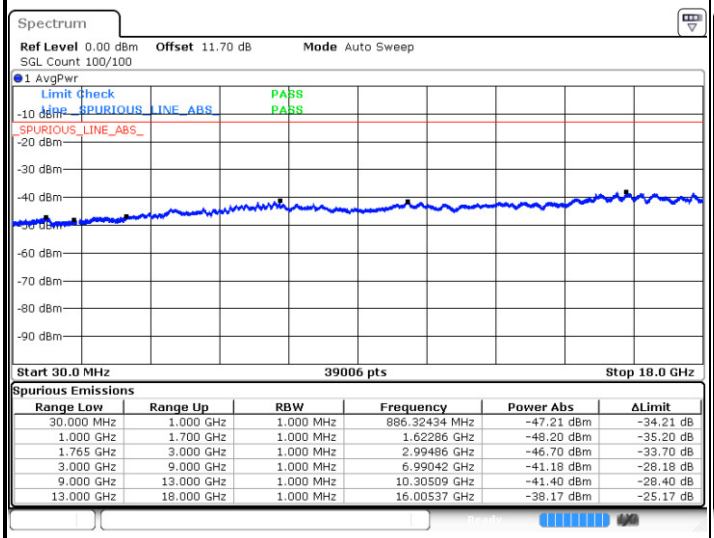



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 912.98601 MHz | -47.18 dBm | -34.18 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.65750 GHz | -48.23 dBm | -35.23 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98951 GHz | -46.72 dBm | -33.72 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99092 GHz | -41.35 dBm | -28.35 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.28859 GHz | -41.43 dBm | -28.43 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76581 GHz | -38.16 dBm | -25.16 dB |

Date: 10.JAN.2018 21:02:33

### Highest Channel / QPSK

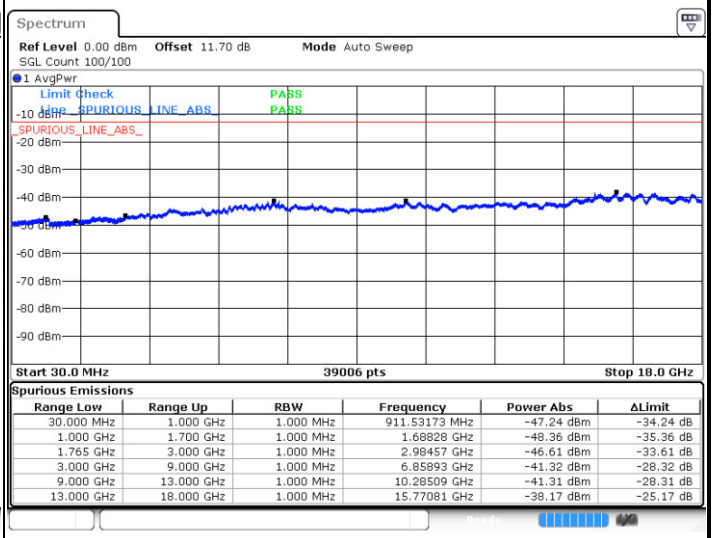



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 886.32434 MHz | -47.21 dBm | -34.21 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.62286 GHz | -48.20 dBm | -35.20 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99486 GHz | -46.70 dBm | -33.70 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99042 GHz | -41.18 dBm | -28.18 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30509 GHz | -41.40 dBm | -28.40 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.00537 GHz | -38.17 dBm | -25.17 dB |

Date: 10.JAN.2018 21:08:41

### Highest Channel / 16QAM



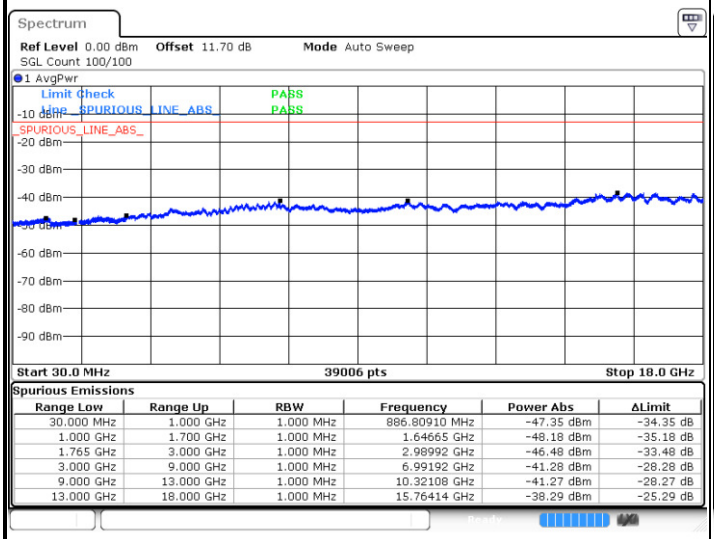

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 911.53173 MHz | -47.24 dBm | -34.24 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.68828 GHz | -48.36 dBm | -35.36 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98457 GHz | -46.61 dBm | -33.61 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.85893 GHz | -41.32 dBm | -28.32 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.28509 GHz | -41.31 dBm | -28.31 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77081 GHz | -38.17 dBm | -25.17 dB |

Date: 10.JAN.2018 21:09:35

## LTE Band 4 / 5MHz

### Lowest Channel / QPSK

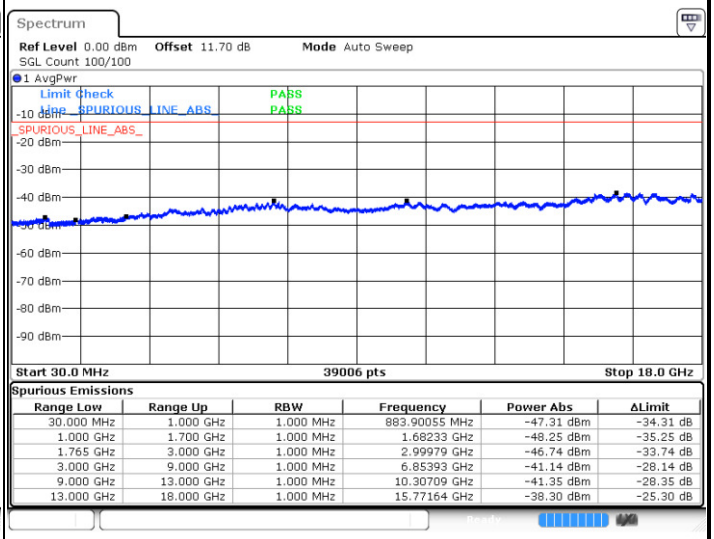



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 886.80910 MHz | -47.35 dBm | -34.35 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.64665 GHz | -48.18 dBm | -35.18 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98992 GHz | -46.48 dBm | -33.48 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99192 GHz | -41.28 dBm | -28.28 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.32108 GHz | -41.27 dBm | -28.27 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76414 GHz | -38.29 dBm | -25.29 dB |

Date: 10.JAN.2018 21:15:44

### Lowest Channel / 16QAM

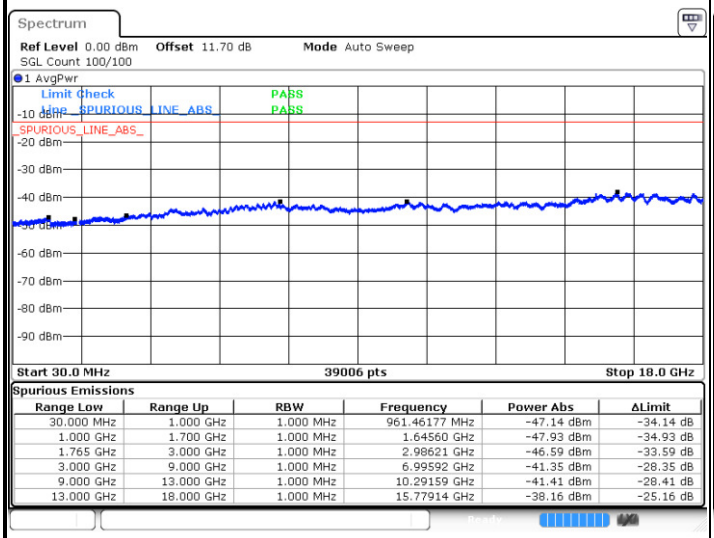



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 883.90055 MHz | -47.31 dBm | -34.31 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.68233 GHz | -48.25 dBm | -35.25 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99979 GHz | -46.74 dBm | -33.74 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.85393 GHz | -41.14 dBm | -28.14 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30709 GHz | -41.35 dBm | -28.35 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77164 GHz | -38.30 dBm | -25.30 dB |

Date: 10.JAN.2018 21:16:38

### Middle Channel / QPSK

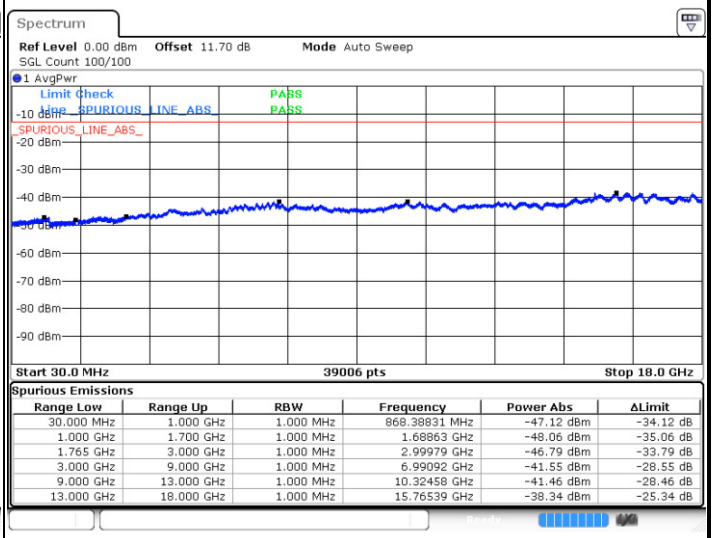



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 961.46177 MHz | -47.14 dBm | -34.14 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.64560 GHz | -47.93 dBm | -34.93 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98621 GHz | -46.59 dBm | -33.59 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99592 GHz | -41.35 dBm | -28.35 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.29159 GHz | -41.41 dBm | -28.41 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77914 GHz | -38.16 dBm | -25.16 dB |

Date: 10.JAN.2018 21:18:12

### Middle Channel / 16QAM



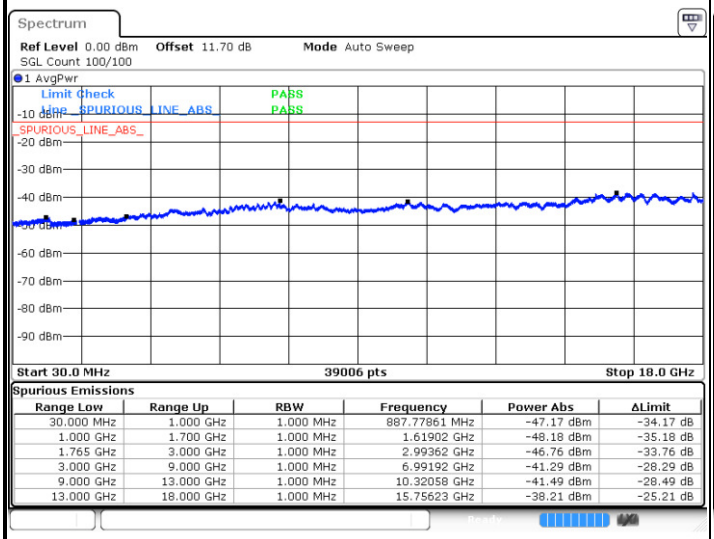

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 868.38831 MHz | -47.12 dBm | -34.12 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.68863 GHz | -48.06 dBm | -35.06 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99979 GHz | -46.79 dBm | -33.79 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99092 GHz | -41.55 dBm | -28.55 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.32458 GHz | -41.46 dBm | -28.46 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76539 GHz | -38.34 dBm | -25.34 dB |

Date: 10.JAN.2018 21:19:06

## LTE Band 4 / 5MHz

### Highest Channel / QPSK

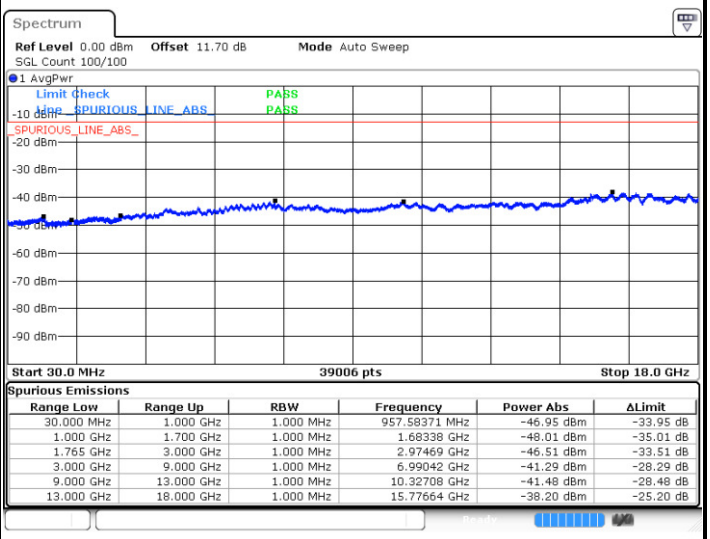



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 887.77861 MHz | -47.17 dBm | -34.17 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.61902 GHz | -48.18 dBm | -35.18 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99362 GHz | -46.76 dBm | -33.76 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99192 GHz | -41.29 dBm | -28.29 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.32058 GHz | -41.49 dBm | -28.49 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.75623 GHz | -38.21 dBm | -25.21 dB |

Date: 11.JAN.2018 21:50:24

### Highest Channel / 16QAM



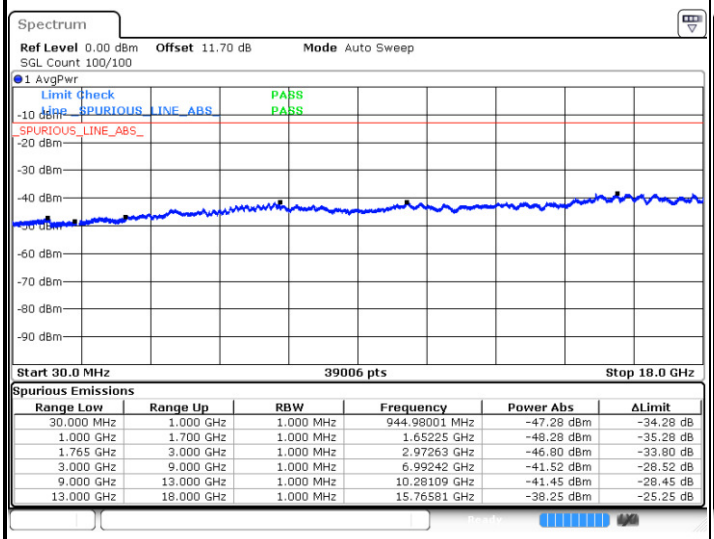

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 957.58371 MHz | -46.95 dBm | -33.95 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.68338 GHz | -48.01 dBm | -35.01 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.97469 GHz | -46.51 dBm | -33.51 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99042 GHz | -41.29 dBm | -28.29 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.32708 GHz | -41.48 dBm | -28.48 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77664 GHz | -38.20 dBm | -25.20 dB |

Date: 11.JAN.2018 21:51:18

## LTE Band 4 / 10MHz

### Lowest Channel / QPSK

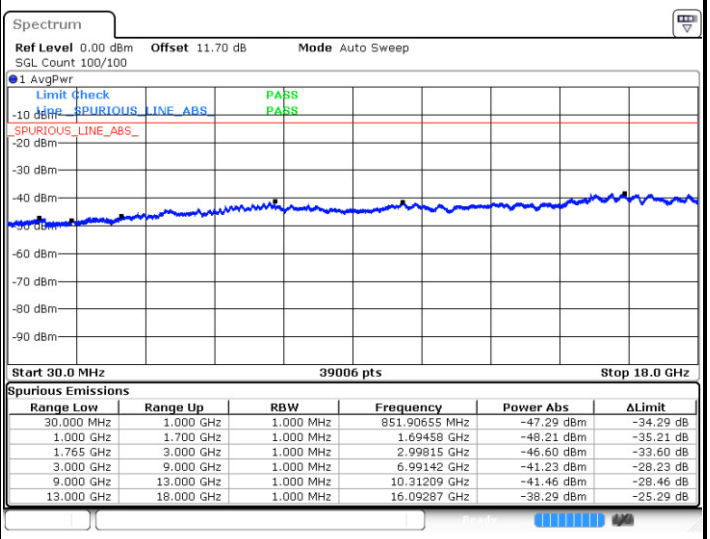



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 944.98001 MHz | -47.28 dBm | -34.28 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.65225 GHz | -48.28 dBm | -35.28 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.97263 GHz | -46.80 dBm | -33.80 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99242 GHz | -41.52 dBm | -28.52 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.28109 GHz | -41.45 dBm | -28.45 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76581 GHz | -38.25 dBm | -25.25 dB |

Date: 12.JAN.2018 01:17:35

### Lowest Channel / 16QAM



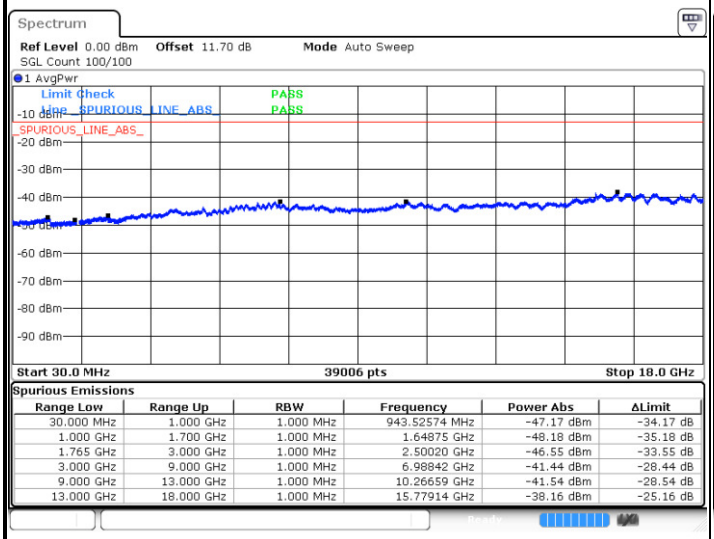

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 851.90655 MHz | -47.29 dBm | -34.29 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69458 GHz | -48.21 dBm | -35.21 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99815 GHz | -46.60 dBm | -33.60 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99142 GHz | -41.23 dBm | -28.23 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.31209 GHz | -41.46 dBm | -28.46 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.09287 GHz | -38.29 dBm | -25.29 dB |

Date: 12.JAN.2018 01:18:29

## LTE Band 4 / 10MHz

### Middle Channel / QPSK

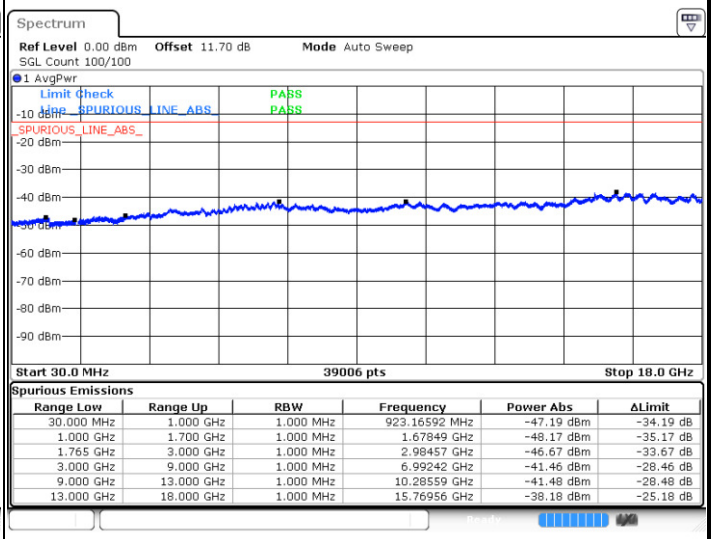



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 943.52574 MHz | -47.17 dBm | -34.17 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.64875 GHz | -48.18 dBm | -35.18 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.50020 GHz | -46.55 dBm | -33.55 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.98842 GHz | -41.44 dBm | -28.44 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.26659 GHz | -41.54 dBm | -28.54 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77914 GHz | -38.16 dBm | -25.16 dB |

Date: 12.JAN.2018 01:20:04

### Middle Channel / 16QAM

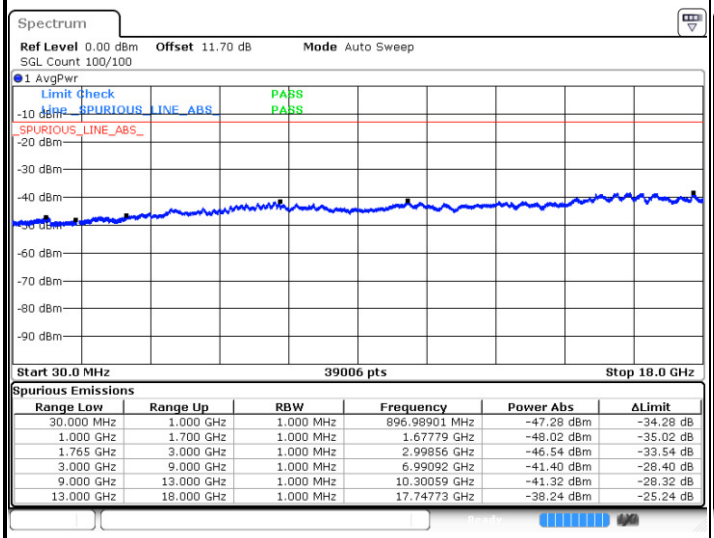



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 923.16592 MHz | -47.19 dBm | -34.19 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.67849 GHz | -48.17 dBm | -35.17 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98457 GHz | -46.67 dBm | -33.67 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99242 GHz | -41.46 dBm | -28.46 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.28559 GHz | -41.48 dBm | -28.48 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76956 GHz | -38.18 dBm | -25.18 dB |

Date: 12.JAN.2018 01:20:58

### Highest Channel / QPSK

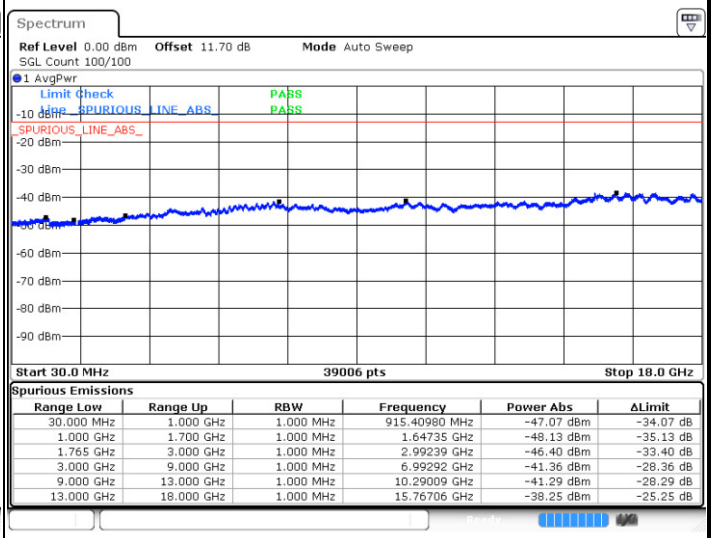



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 896.98901 MHz | -47.28 dBm | -34.28 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.67779 GHz | -48.02 dBm | -35.02 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99856 GHz | -46.54 dBm | -33.54 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99092 GHz | -41.40 dBm | -28.40 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30059 GHz | -41.32 dBm | -28.32 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 17.74773 GHz | -38.24 dBm | -25.24 dB |

Date: 12.JAN.2018 01:27:07

### Highest Channel / 16QAM



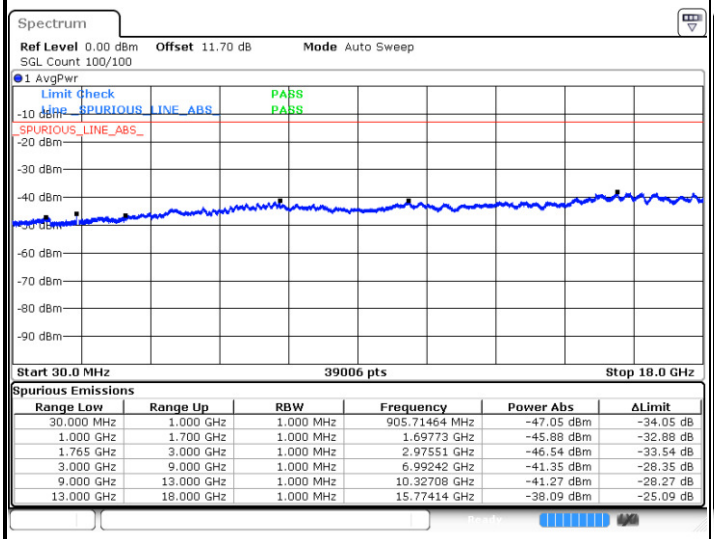

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 915.40980 MHz | -47.07 dBm | -34.07 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.64735 GHz | -48.13 dBm | -35.13 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99239 GHz | -46.40 dBm | -33.40 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99292 GHz | -41.36 dBm | -28.36 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.29009 GHz | -41.29 dBm | -28.29 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76706 GHz | -38.25 dBm | -25.25 dB |

Date: 12.JAN.2018 01:28:01

## LTE Band 4 / 15MHz

### Lowest Channel / QPSK

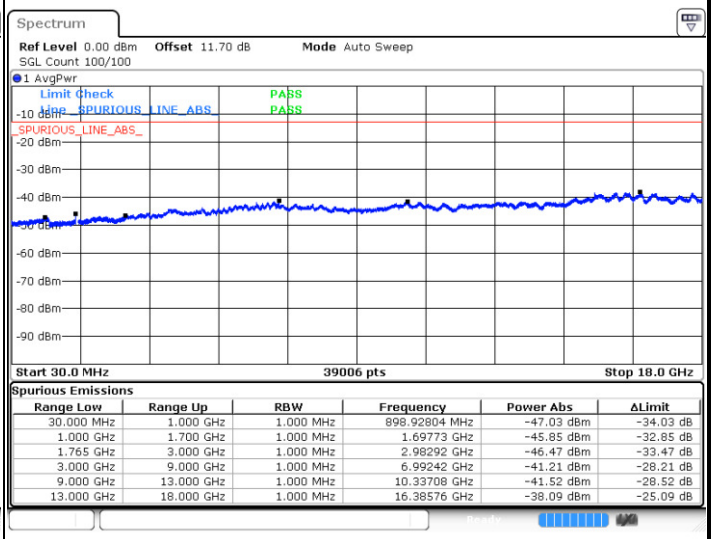



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 905.71464 MHz | -47.05 dBm | -34.05 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69773 GHz | -45.88 dBm | -32.88 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.97551 GHz | -46.54 dBm | -33.54 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99242 GHz | -41.35 dBm | -28.35 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.32708 GHz | -41.27 dBm | -28.27 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77414 GHz | -38.09 dBm | -25.09 dB |

Date: 12.JAN.2018 01:34:11

### Lowest Channel / 16QAM

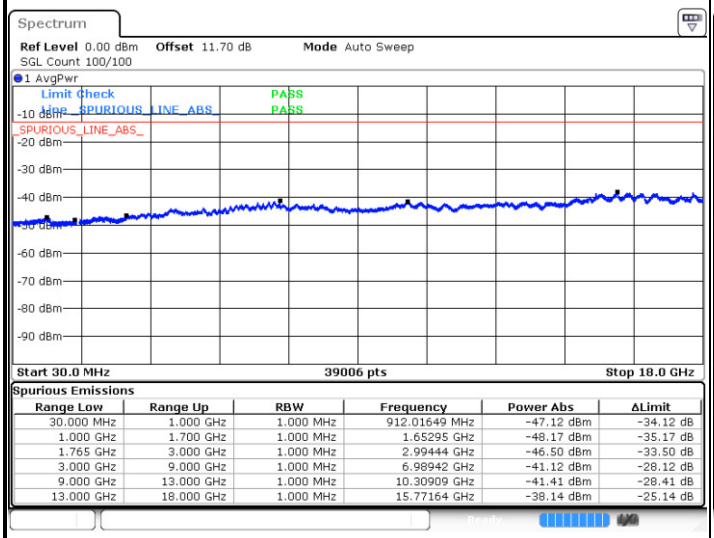



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 898.92804 MHz | -47.03 dBm | -34.03 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69773 GHz | -45.85 dBm | -32.85 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98292 GHz | -46.47 dBm | -33.47 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99242 GHz | -41.21 dBm | -28.21 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.33708 GHz | -41.52 dBm | -28.52 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.38576 GHz | -38.09 dBm | -25.09 dB |

Date: 12.JAN.2018 01:35:04

### Middle Channel / QPSK

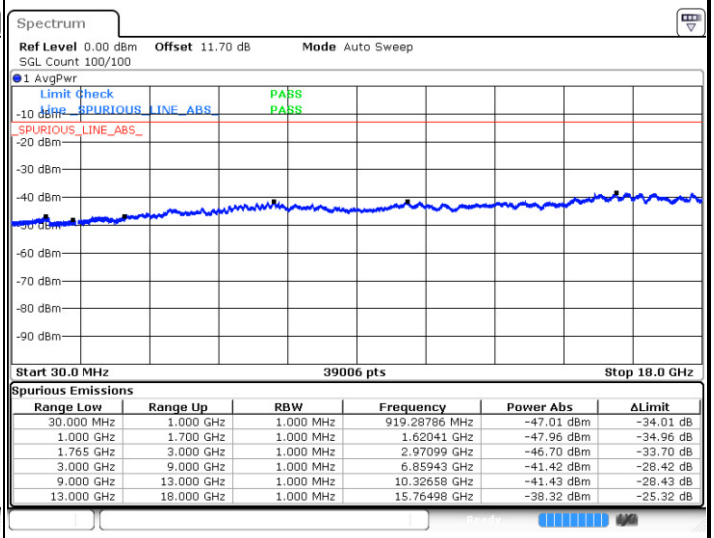



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 912.01649 MHz | -47.12 dBm | -34.12 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.65295 GHz | -48.17 dBm | -35.17 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99444 GHz | -46.50 dBm | -33.50 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.98942 GHz | -41.12 dBm | -28.12 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30909 GHz | -41.41 dBm | -28.41 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77164 GHz | -38.14 dBm | -25.14 dB |

Date: 12.JAN.2018 01:36:39

### Middle Channel / 16QAM



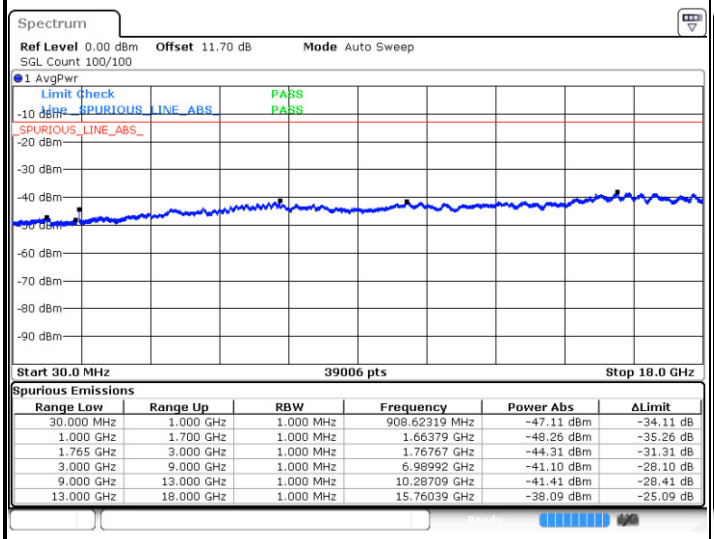

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 919.28786 MHz | -47.01 dBm | -34.01 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.62041 GHz | -47.96 dBm | -34.96 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.97099 GHz | -46.70 dBm | -33.70 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.85943 GHz | -41.42 dBm | -28.42 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.32658 GHz | -41.43 dBm | -28.43 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76498 GHz | -38.32 dBm | -25.32 dB |

Date: 12.JAN.2018 01:37:33

## LTE Band 4 / 15MHz

### Highest Channel / QPSK

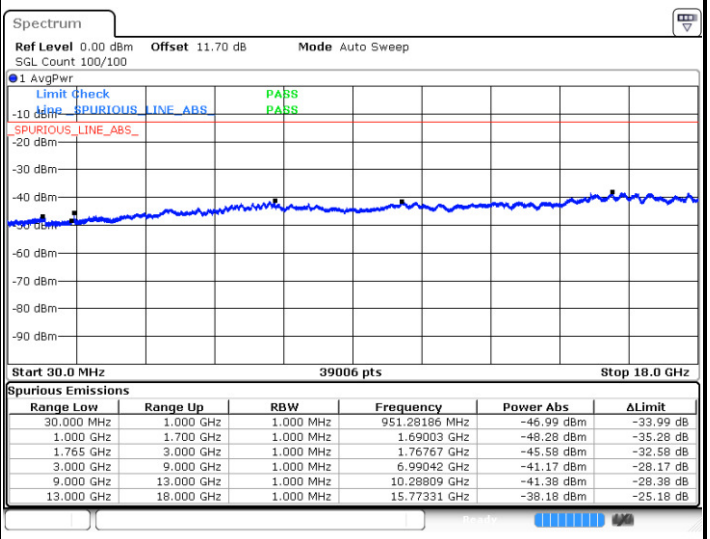



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 908.62319 MHz | -47.11 dBm | -34.11 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.66379 GHz | -48.26 dBm | -35.26 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.76767 GHz | -44.31 dBm | -31.31 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.98992 GHz | -41.10 dBm | -28.10 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.28709 GHz | -41.41 dBm | -28.41 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76039 GHz | -38.09 dBm | -25.09 dB |

Date: 12.JAN.2018 01:43:42

### Highest Channel / 16QAM



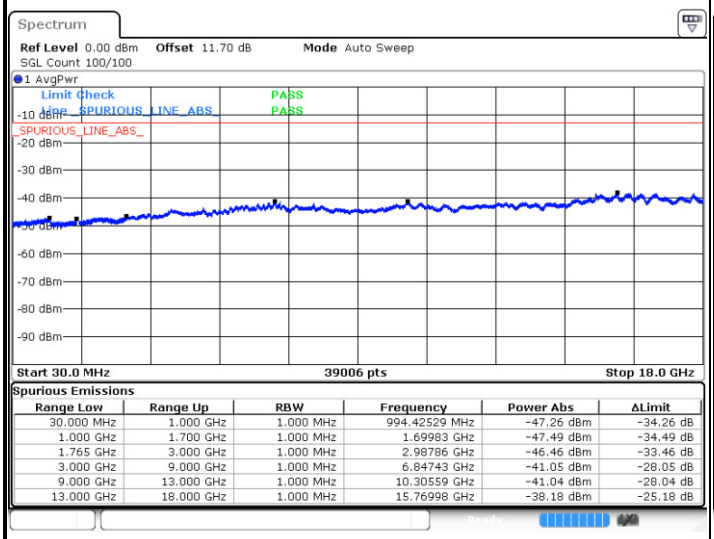

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 951.28186 MHz | -46.99 dBm | -33.99 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69003 GHz | -48.28 dBm | -35.28 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.76767 GHz | -45.58 dBm | -32.58 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99042 GHz | -41.17 dBm | -28.17 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.28809 GHz | -41.38 dBm | -28.38 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77331 GHz | -38.18 dBm | -25.18 dB |

Date: 12.JAN.2018 01:44:36

## LTE Band 4 / 20MHz

### Lowest Channel / QPSK

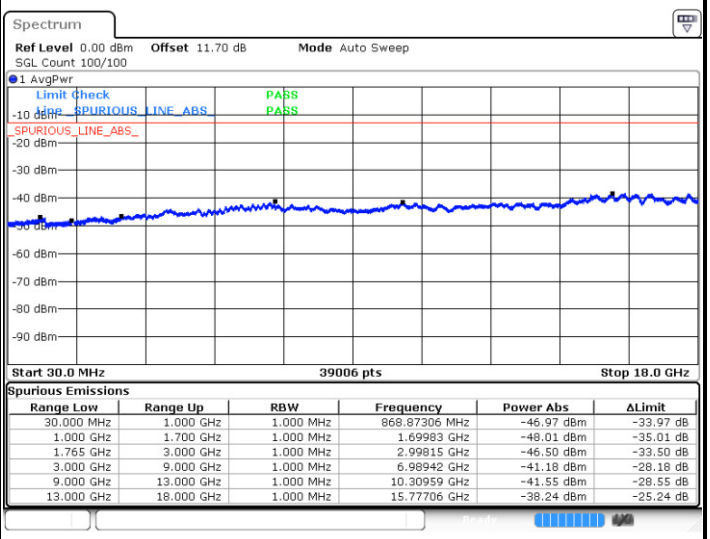



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 994.42529 MHz | -47.26 dBm | -34.26 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69983 GHz | -47.49 dBm | -34.49 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98786 GHz | -46.46 dBm | -33.46 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.84743 GHz | -41.05 dBm | -28.05 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30559 GHz | -41.04 dBm | -28.04 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76998 GHz | -38.18 dBm | -25.18 dB |

Date: 12.JAN.2018 01:50:45

### Lowest Channel / 16QAM



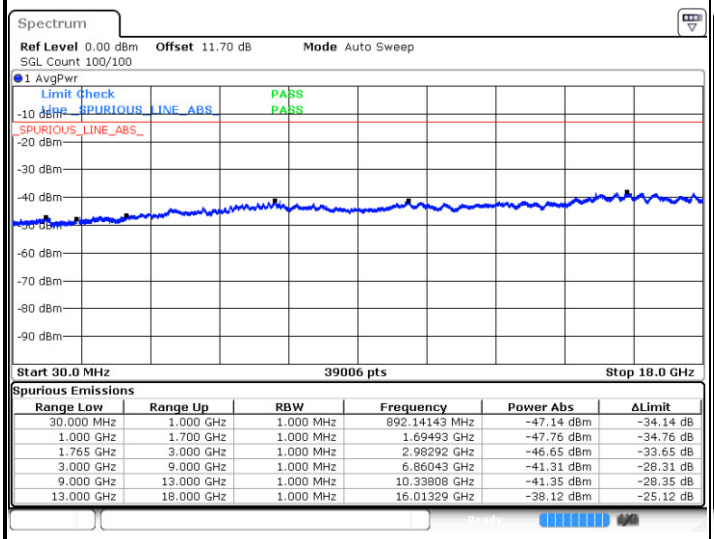

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 868.87306 MHz | -46.97 dBm | -33.97 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69983 GHz | -48.01 dBm | -35.01 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99815 GHz | -46.50 dBm | -33.50 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.98942 GHz | -41.18 dBm | -28.18 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30959 GHz | -41.55 dBm | -28.55 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77706 GHz | -38.24 dBm | -25.24 dB |

Date: 12.JAN.2018 01:51:39

## LTE Band 4 / 20MHz

### Middle Channel / QPSK

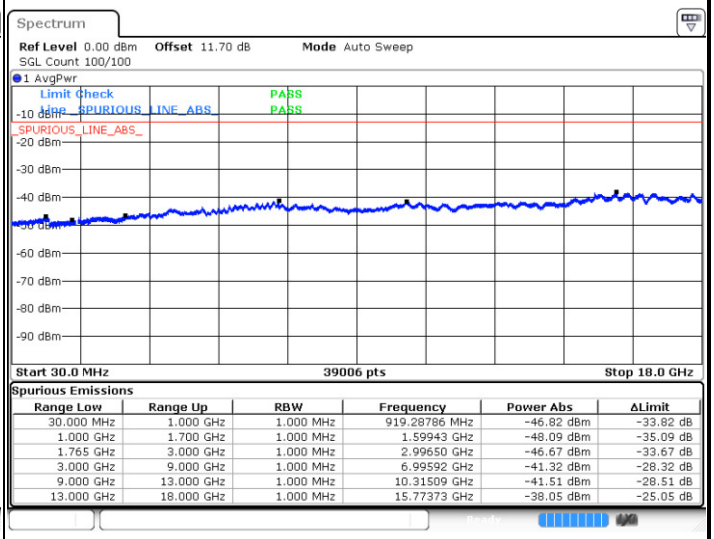



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 892.14143 MHz | -47.14 dBm | -34.14 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69493 GHz | -47.76 dBm | -34.76 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98292 GHz | -46.65 dBm | -33.65 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.86043 GHz | -41.31 dBm | -28.31 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.33808 GHz | -41.35 dBm | -28.35 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 16.01329 GHz | -38.12 dBm | -25.12 dB |

Date: 12.JAN.2018 01:53:13

### Middle Channel / 16QAM

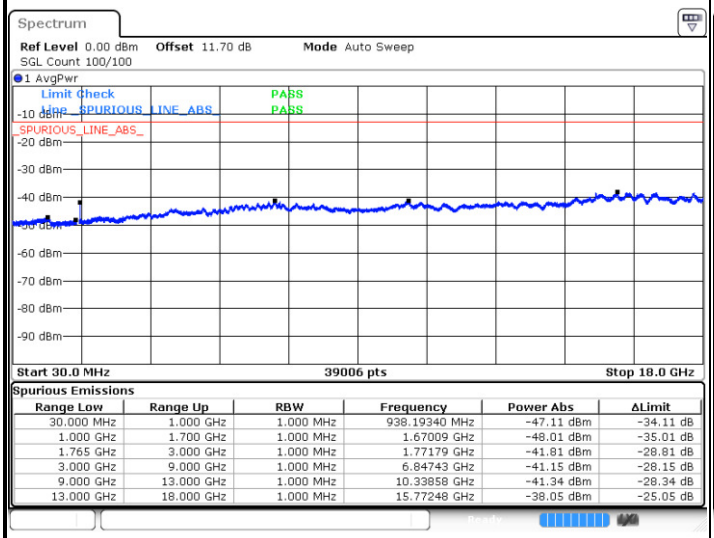



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 919.28786 MHz | -46.82 dBm | -33.82 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.59943 GHz | -48.09 dBm | -35.09 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99650 GHz | -46.67 dBm | -33.67 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99592 GHz | -41.32 dBm | -28.32 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.31509 GHz | -41.51 dBm | -28.51 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77373 GHz | -38.05 dBm | -25.05 dB |

Date: 12.JAN.2018 01:54:07

### Highest Channel / QPSK

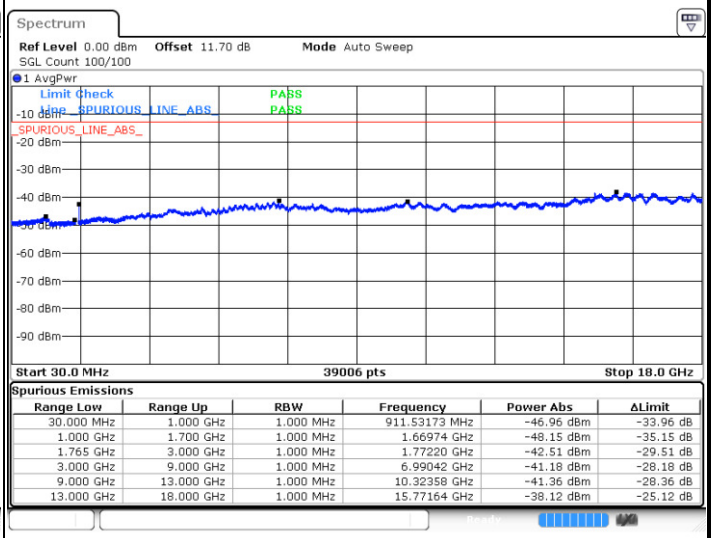



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 938.19340 MHz | -47.11 dBm | -34.11 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.67009 GHz | -48.01 dBm | -35.01 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.77179 GHz | -41.81 dBm | -28.81 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.84743 GHz | -41.15 dBm | -28.15 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.33858 GHz | -41.34 dBm | -28.34 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77248 GHz | -38.05 dBm | -25.05 dB |

Date: 12.JAN.2018 02:00:17

### Highest Channel / 16QAM



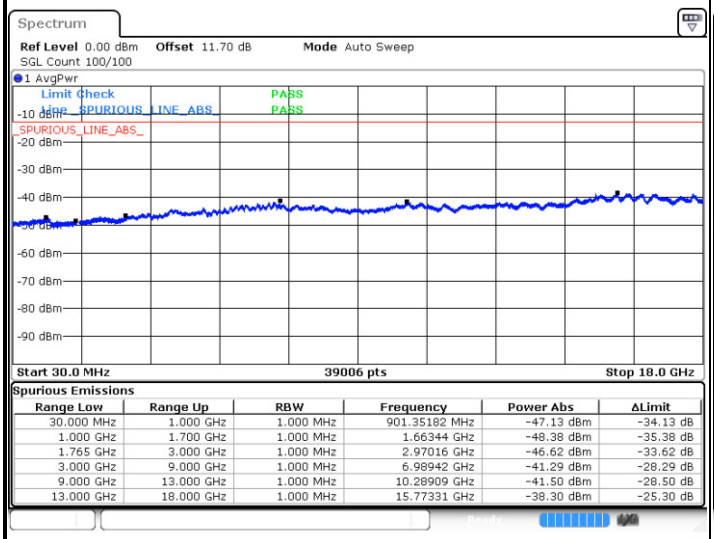

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 911.53173 MHz | -46.96 dBm | -33.96 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.66974 GHz | -48.15 dBm | -35.15 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.77220 GHz | -42.51 dBm | -29.51 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99042 GHz | -41.18 dBm | -28.18 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.32358 GHz | -41.36 dBm | -28.36 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77164 GHz | -38.12 dBm | -25.12 dB |

Date: 12.JAN.2018 02:01:11

## LTE Band 4 / 1.4MHz

### Lowest Channel / 64QAM

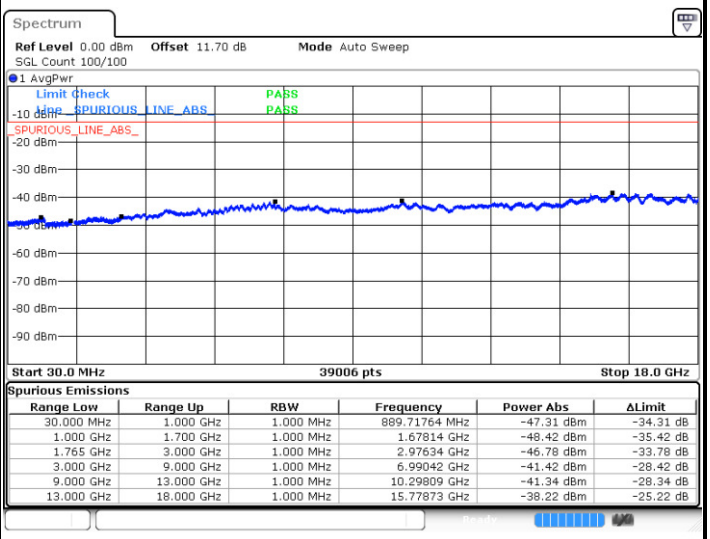



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 901.35182 MHz | -47.13 dBm | -34.13 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.66344 GHz | -48.38 dBm | -35.38 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.97016 GHz | -46.62 dBm | -33.62 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.98942 GHz | -41.29 dBm | -28.29 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.28909 GHz | -41.50 dBm | -28.50 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77331 GHz | -38.30 dBm | -25.30 dB |

Date: 31.JAN.2018 23:01:33

### Middle Channel / 64QAM

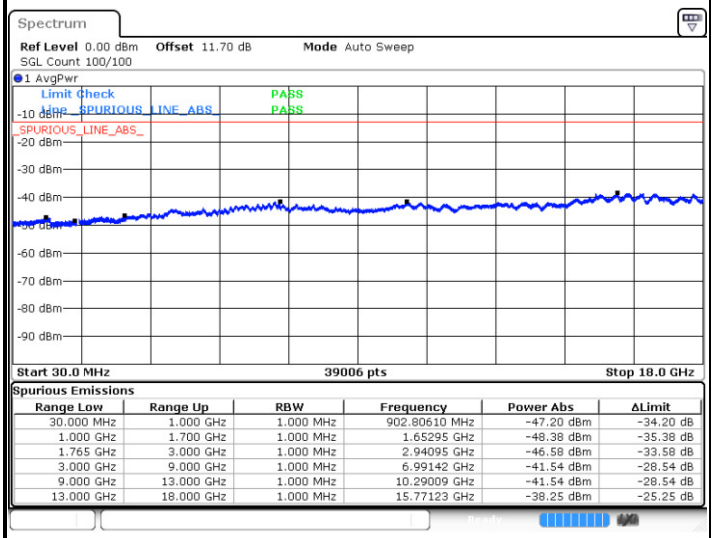



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 889.71764 MHz | -47.31 dBm | -34.31 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.67814 GHz | -48.42 dBm | -35.42 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.97634 GHz | -46.78 dBm | -33.78 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99042 GHz | -41.42 dBm | -28.42 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.29809 GHz | -41.34 dBm | -28.34 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77873 GHz | -38.22 dBm | -25.22 dB |

Date: 31.JAN.2018 23:02:47

### Highest Channel / 64QAM



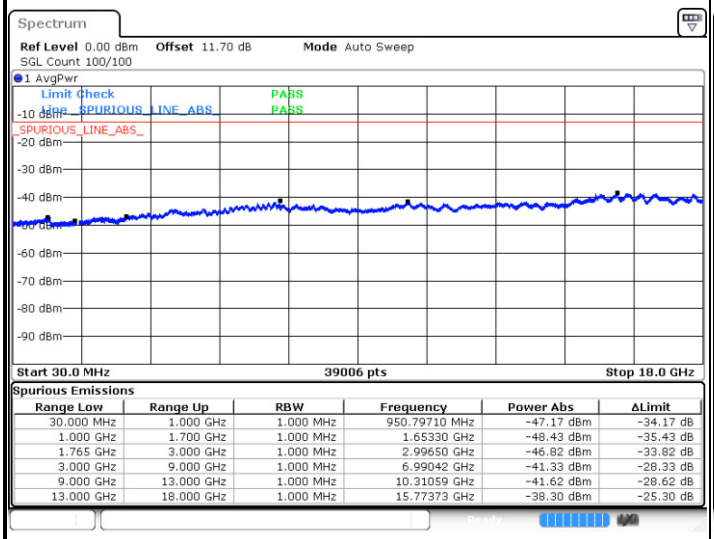

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 902.80610 MHz | -47.20 dBm | -34.20 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.65295 GHz | -48.38 dBm | -35.38 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.94095 GHz | -46.58 dBm | -33.58 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99142 GHz | -41.54 dBm | -28.54 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.29009 GHz | -41.54 dBm | -28.54 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77123 GHz | -38.25 dBm | -25.25 dB |

Date: 31.JAN.2018 23:06:18

## LTE Band 4 / 3MHz

### Lowest Channel / 64QAM

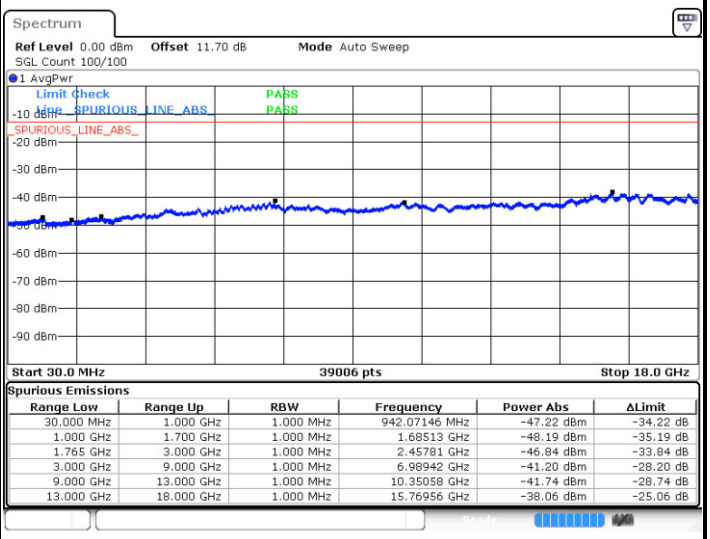



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 950.79710 MHz | -47.17 dBm | -34.17 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.65330 GHz | -48.43 dBm | -35.43 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99650 GHz | -46.82 dBm | -33.82 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99042 GHz | -41.33 dBm | -28.33 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.31059 GHz | -41.62 dBm | -28.62 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77373 GHz | -38.30 dBm | -25.30 dB |

Date: 31.JAN.2018 21:47:19

### Middle Channel / 64QAM

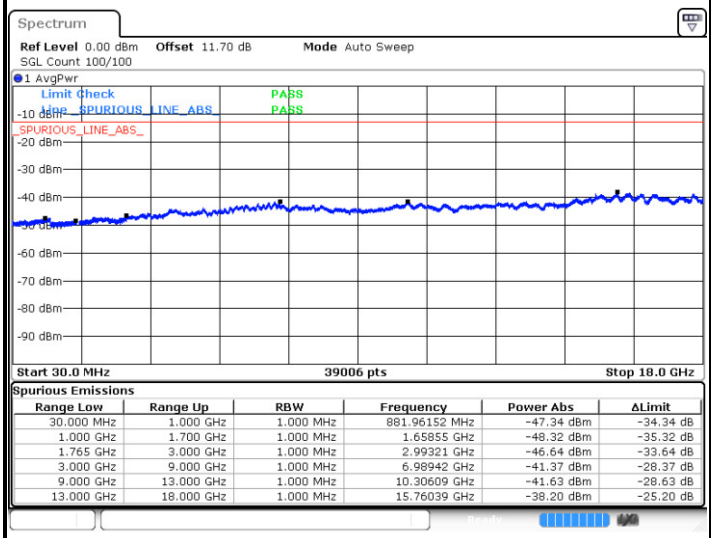



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 942.07146 MHz | -47.22 dBm | -34.22 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.68513 GHz | -48.19 dBm | -35.19 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.45781 GHz | -46.84 dBm | -33.84 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.98942 GHz | -41.20 dBm | -28.20 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.35058 GHz | -41.74 dBm | -28.74 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76956 GHz | -38.06 dBm | -25.06 dB |

Date: 31.JAN.2018 21:48:33

### Highest Channel / 64QAM



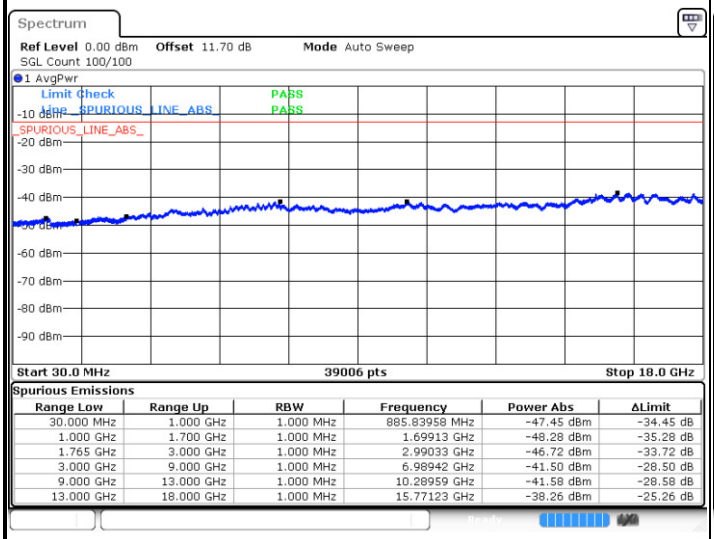

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 881.96152 MHz | -47.34 dBm | -34.34 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.65855 GHz | -48.32 dBm | -35.32 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99321 GHz | -46.64 dBm | -33.64 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.98942 GHz | -41.37 dBm | -28.37 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30609 GHz | -41.63 dBm | -28.63 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76039 GHz | -38.20 dBm | -25.20 dB |

Date: 31.JAN.2018 21:52:04

## LTE Band 4 / 5MHz

### Lowest Channel / 64QAM

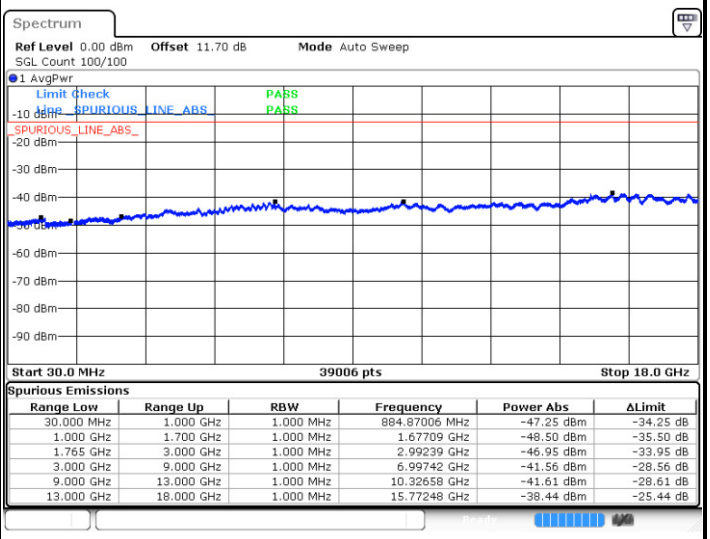



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 885.83958 MHz | -47.45 dBm | -34.45 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69913 GHz | -48.28 dBm | -35.28 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99033 GHz | -46.72 dBm | -33.72 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.98942 GHz | -41.50 dBm | -28.50 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.28959 GHz | -41.58 dBm | -28.58 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77123 GHz | -38.26 dBm | -25.26 dB |

Date: 31.JAN.2018 21:55:36

### Middle Channel / 64QAM

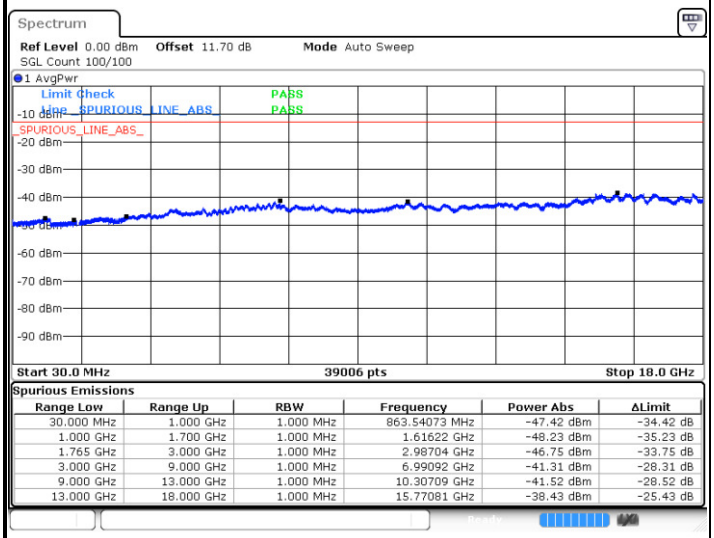



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 884.87006 MHz | -47.25 dBm | -34.25 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.67709 GHz | -48.50 dBm | -35.50 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99239 GHz | -46.95 dBm | -33.95 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99742 GHz | -41.56 dBm | -28.56 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.32658 GHz | -41.61 dBm | -28.61 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77248 GHz | -38.44 dBm | -25.44 dB |

Date: 31.JAN.2018 21:56:50

### Highest Channel / 64QAM



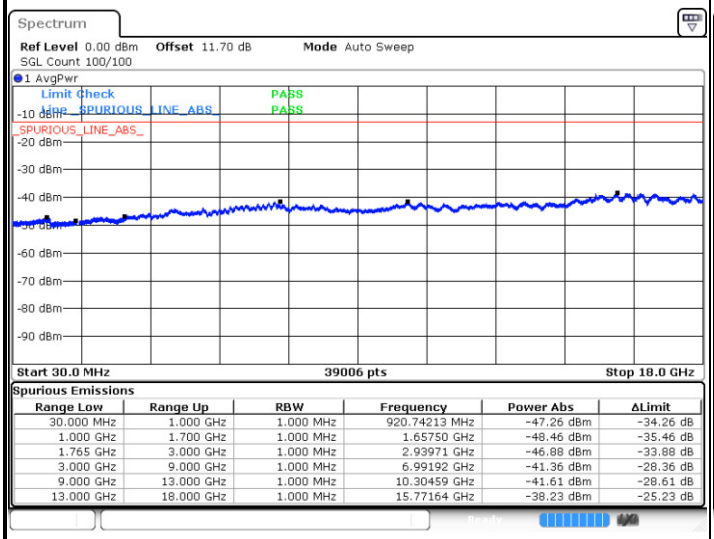

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 863.54073 MHz | -47.42 dBm | -34.42 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.61622 GHz | -48.23 dBm | -35.23 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98704 GHz | -46.75 dBm | -33.75 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99092 GHz | -41.31 dBm | -28.31 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30709 GHz | -41.52 dBm | -28.52 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77081 GHz | -38.43 dBm | -25.43 dB |

Date: 31.JAN.2018 22:00:21

## LTE Band 4 / 10MHz

### Lowest Channel / 64QAM

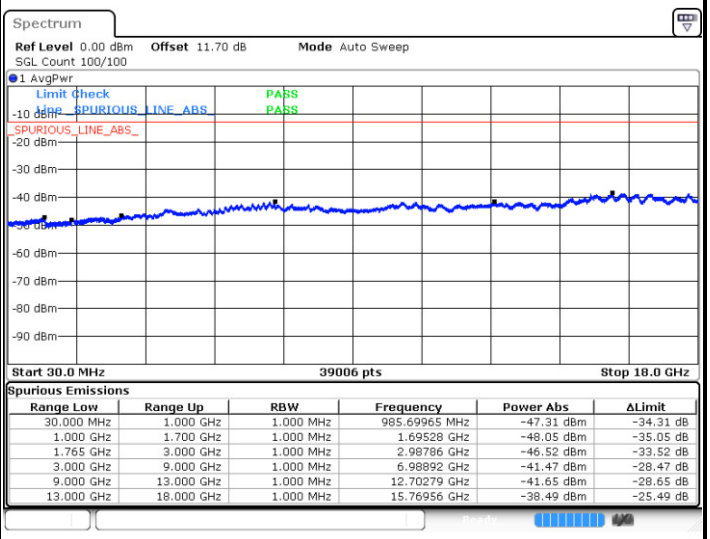



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 920.74213 MHz | -47.26 dBm | -34.26 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.65750 GHz | -48.46 dBm | -35.46 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.93971 GHz | -46.88 dBm | -33.88 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99192 GHz | -41.36 dBm | -28.36 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30459 GHz | -41.61 dBm | -28.61 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77164 GHz | -38.23 dBm | -25.23 dB |

Date: 31.JAN.2018 22:03:53

### Middle Channel / 64QAM

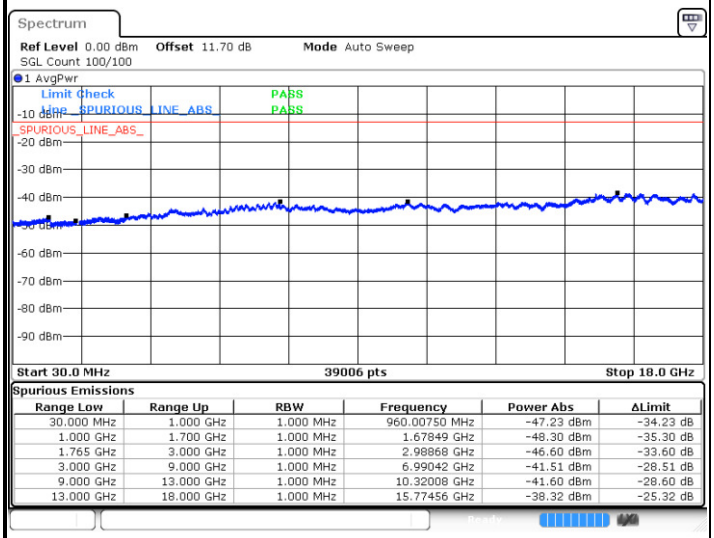



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 985.69965 MHz | -47.31 dBm | -34.31 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69528 GHz | -48.05 dBm | -35.05 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98786 GHz | -46.52 dBm | -33.52 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.98892 GHz | -41.47 dBm | -28.47 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.70279 GHz | -41.65 dBm | -28.65 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76956 GHz | -38.49 dBm | -25.49 dB |

Date: 31.JAN.2018 22:05:07

### Highest Channel / 64QAM



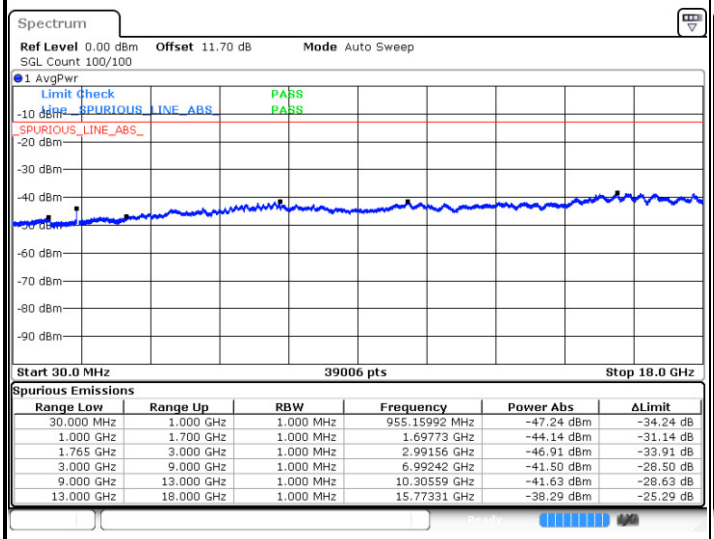

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 960.00750 MHz | -47.23 dBm | -34.23 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.67849 GHz | -48.30 dBm | -35.30 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98868 GHz | -46.60 dBm | -33.60 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99042 GHz | -41.51 dBm | -28.51 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.32008 GHz | -41.60 dBm | -28.60 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77456 GHz | -38.32 dBm | -25.32 dB |

Date: 31.JAN.2018 22:08:38

## LTE Band 4 / 15MHz

### Lowest Channel / 64QAM

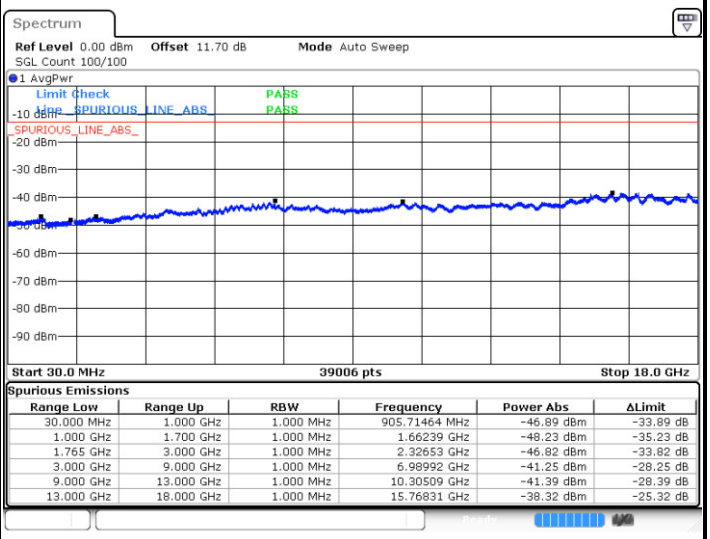



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 955.15992 MHz | -47.24 dBm | -34.24 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69773 GHz | -44.14 dBm | -31.14 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99156 GHz | -46.91 dBm | -33.91 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99242 GHz | -41.50 dBm | -28.50 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30559 GHz | -41.63 dBm | -28.63 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77331 GHz | -38.29 dBm | -25.29 dB |

Date: 31.JAN.2018 22:12:10

### Middle Channel / 64QAM

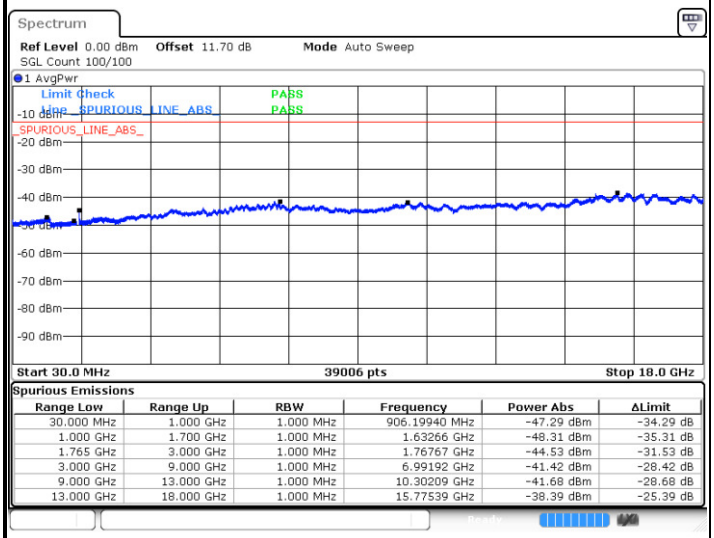



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 905.71464 MHz | -46.89 dBm | -33.89 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.66239 GHz | -48.23 dBm | -35.23 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.32653 GHz | -46.82 dBm | -33.82 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.98992 GHz | -41.25 dBm | -28.25 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30509 GHz | -41.39 dBm | -28.39 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76831 GHz | -38.32 dBm | -25.32 dB |

Date: 31.JAN.2018 22:13:24

### Highest Channel / 64QAM



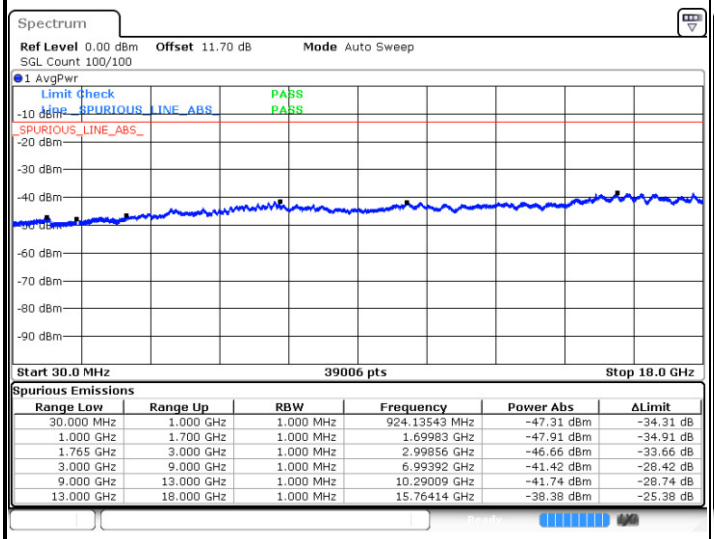

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 906.19940 MHz | -47.29 dBm | -34.29 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.63266 GHz | -48.31 dBm | -35.31 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.76767 GHz | -44.53 dBm | -31.53 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99192 GHz | -41.42 dBm | -28.42 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.30209 GHz | -41.68 dBm | -28.68 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77539 GHz | -38.39 dBm | -25.39 dB |

Date: 31.JAN.2018 22:16:55

## LTE Band 4 / 20MHz

### Lowest Channel / 64QAM

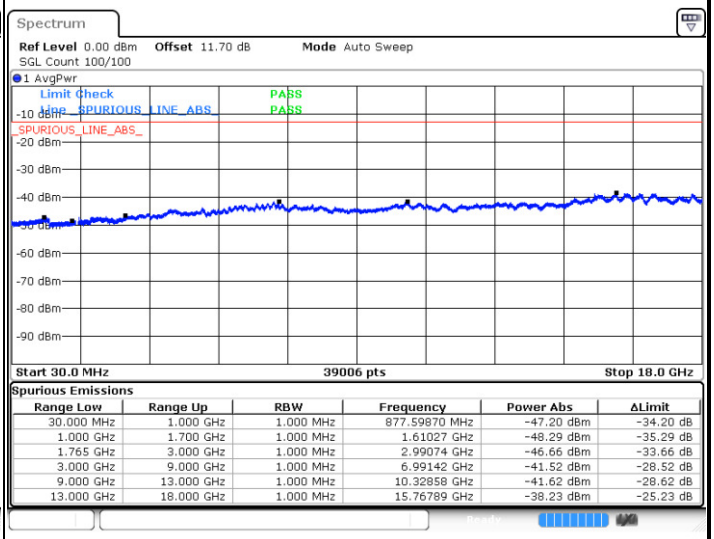



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 924.13543 MHz | -47.31 dBm | -34.31 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69983 GHz | -47.91 dBm | -34.91 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99856 GHz | -46.66 dBm | -33.66 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99392 GHz | -41.42 dBm | -28.42 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.29009 GHz | -41.74 dBm | -28.74 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76414 GHz | -38.38 dBm | -25.38 dB |

Date: 31.JAN.2018 22:20:26

### Middle Channel / 64QAM

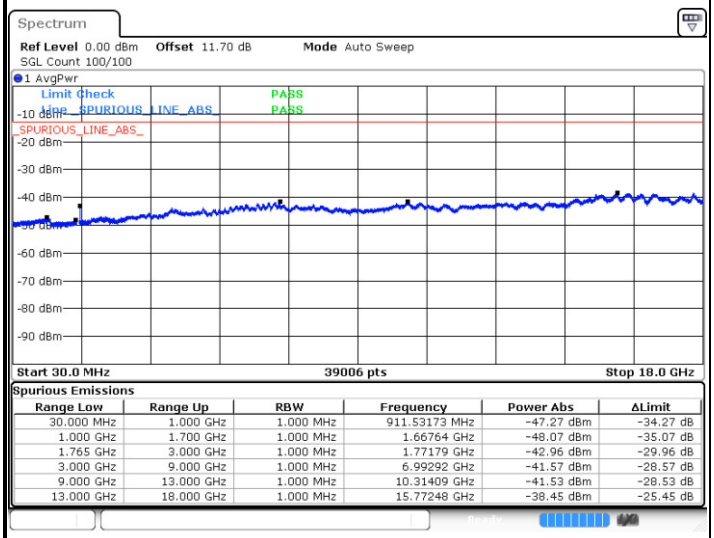



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 877.59870 MHz | -47.20 dBm | -34.20 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.61027 GHz | -48.29 dBm | -35.29 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99074 GHz | -46.66 dBm | -33.66 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99142 GHz | -41.52 dBm | -28.52 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.32858 GHz | -41.62 dBm | -28.62 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.76789 GHz | -38.23 dBm | -25.23 dB |

Date: 31.JAN.2018 22:21:40

### Highest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 911.53173 MHz | -47.27 dBm | -34.27 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.66764 GHz | -48.07 dBm | -35.07 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.77179 GHz | -42.96 dBm | -29.96 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.99292 GHz | -41.57 dBm | -28.57 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 10.31409 GHz | -41.53 dBm | -28.53 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.77248 GHz | -38.45 dBm | -25.45 dB |

Date: 31.JAN.2018 22:25:12

# 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 | 0.0033 | PASS |
| 40 | Normal Voltage | 0.0035 | |
| 30 | Normal Voltage | 0.0037 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0035 | |
| 0 | Normal Voltage | 0.0015 | |
| -10 | Normal Voltage | 0.0041 | |
| -20 | Normal Voltage | 0.0048 | |
| -30 | Normal Voltage | 0.0050 | |
| 20 | Maximum Voltage | 0.0039 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0035 | |

**Note:**

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.5 V.；Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

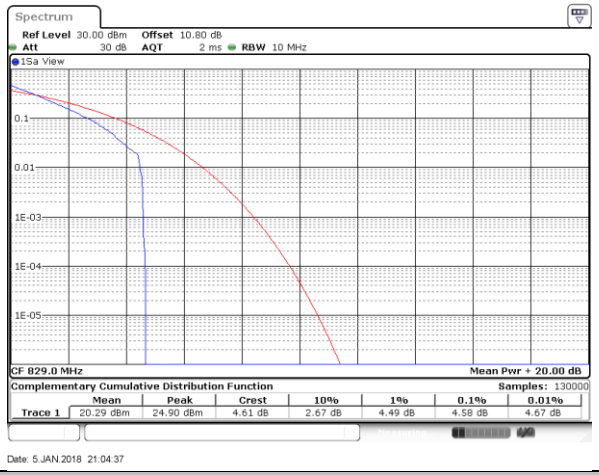
# LTE Band 5

## Peak-to-Average Ratio

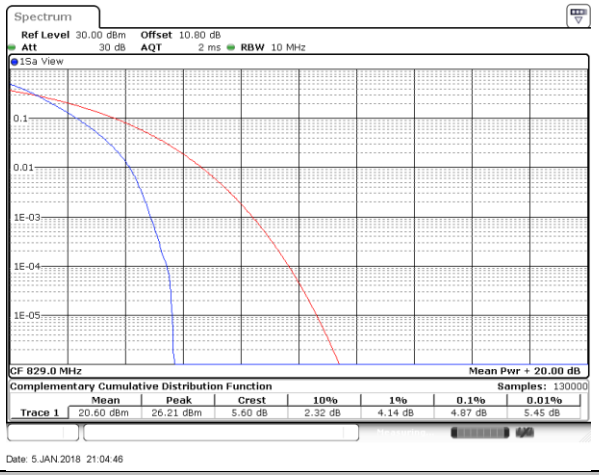
| Mode | LTE Band 5 / 10MHz | | | | |
|---|---|---|---|---|---|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 4.58 | 4.87 | 5.48 | 5.86 | PASS |
| Middle CH | 4.06 | 4.96 | 4.81 | 5.74 | |
| Highest CH | 4.55 | 5.1 | 5.59 | 5.91 | |
| Mode | LTE Band 5 / 10MHz | | | | |
| Mod. | 64QAM | | | | Limit: 13dB |
| RB Size | 1RB | Full RB | | | Result |
| Lowest CH | 5.42 | 5.80 | - | - | PASS |
| Middle CH | 5.19 | 5.94 | - | - | |
| Highest CH | 5.62 | 6.14 | - | - | |

## LTE Band 5 / 10MHz / QPSK

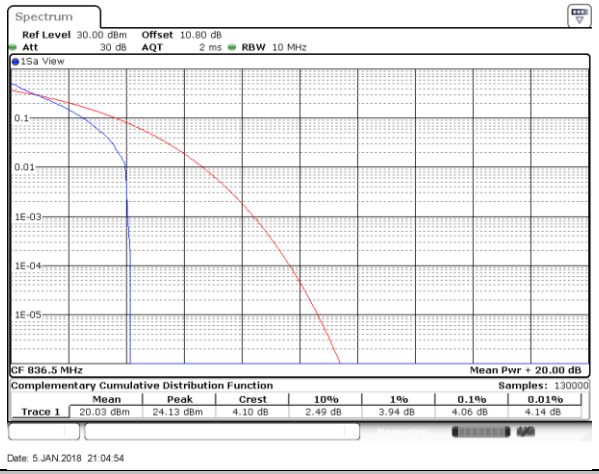
### Lowest Channel / 1RB



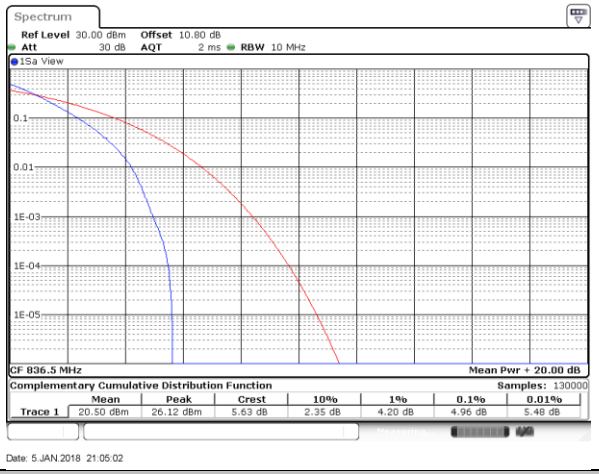

### Lowest Channel / Full RB



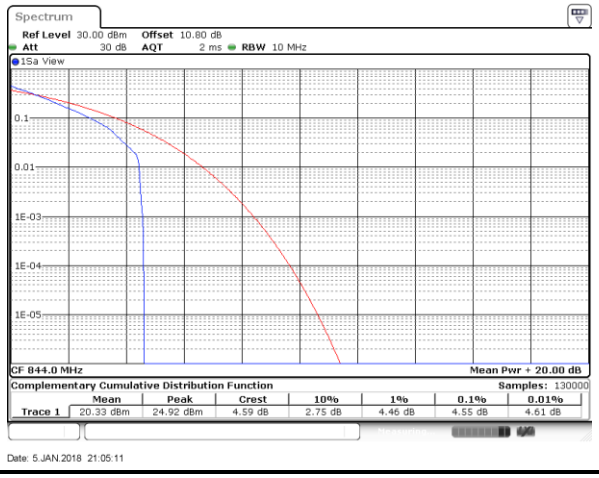

### Middle Channel / 1RB



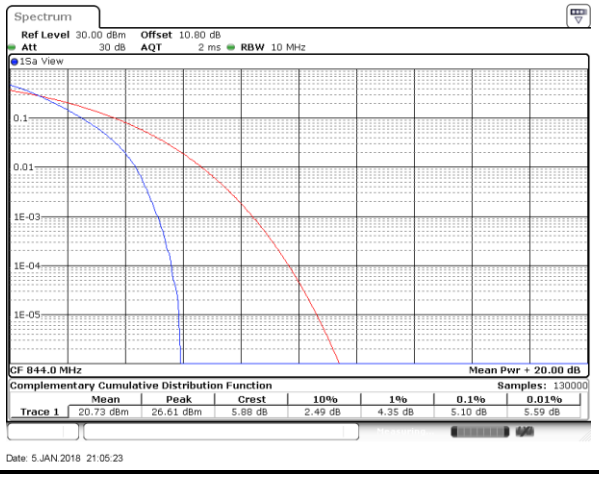

### Middle Channel / Full RB




### Highest Channel / 1RB

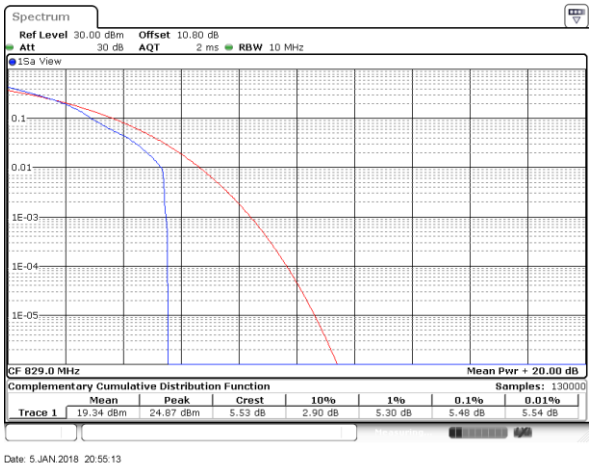



### Highest Channel / Full RB

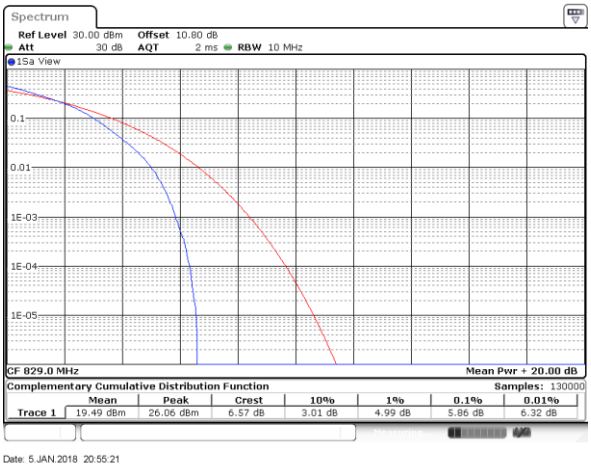


## LTE Band 5 / 10MHz / 16QAM

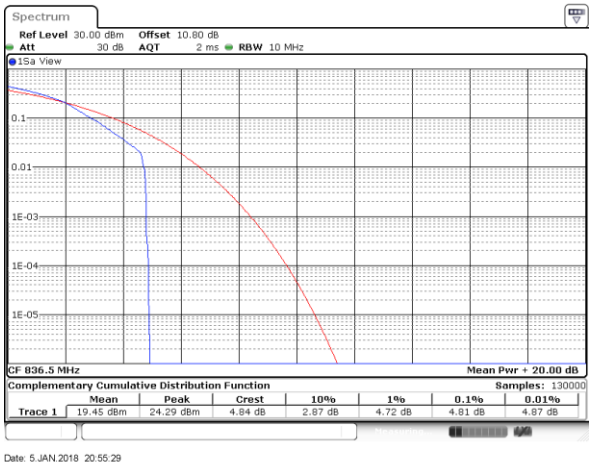
### Lowest Channel / 1RB



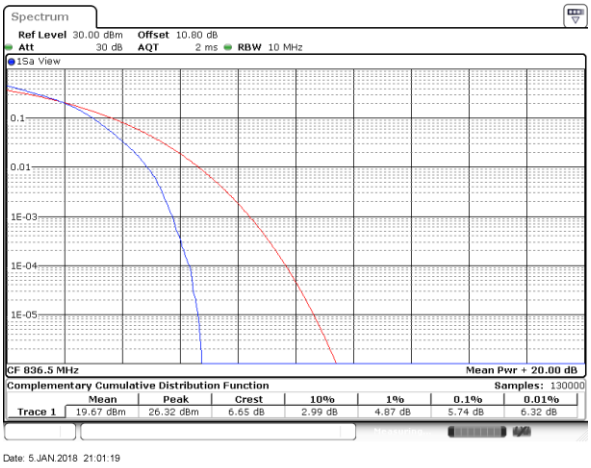

### Lowest Channel / Full RB



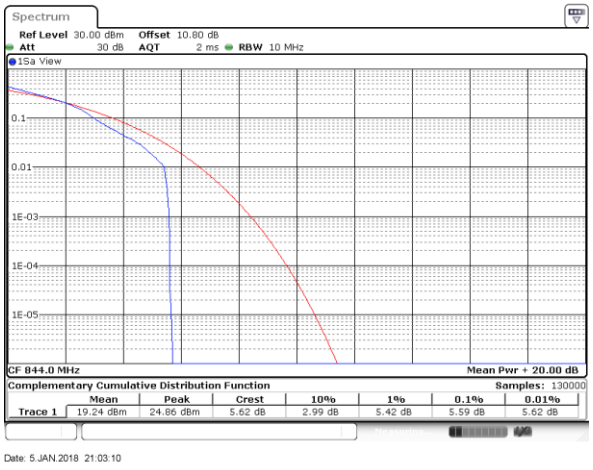

### Middle Channel / 1RB



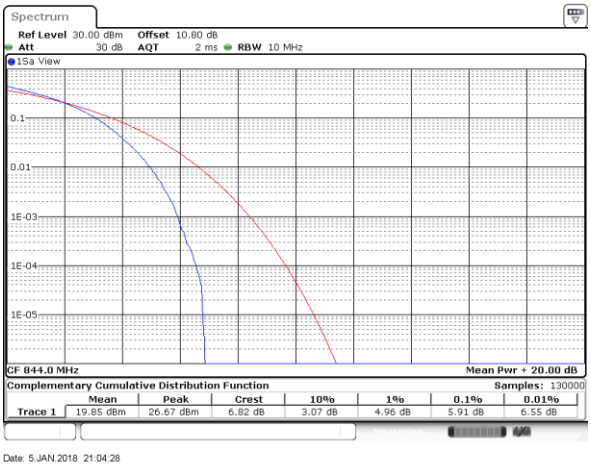

### Middle Channel / Full RB




### Highest Channel / 1RB

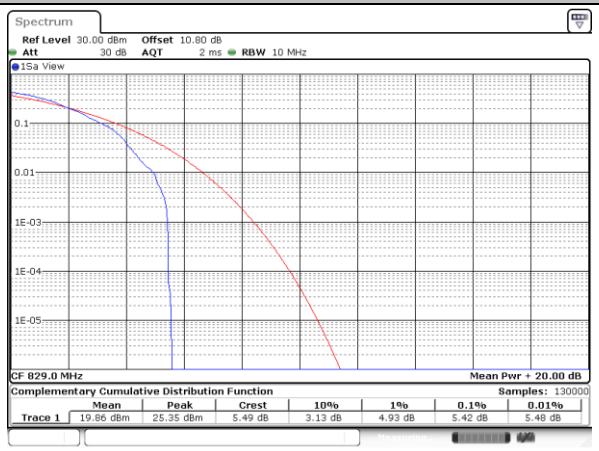



### Highest Channel / Full RB



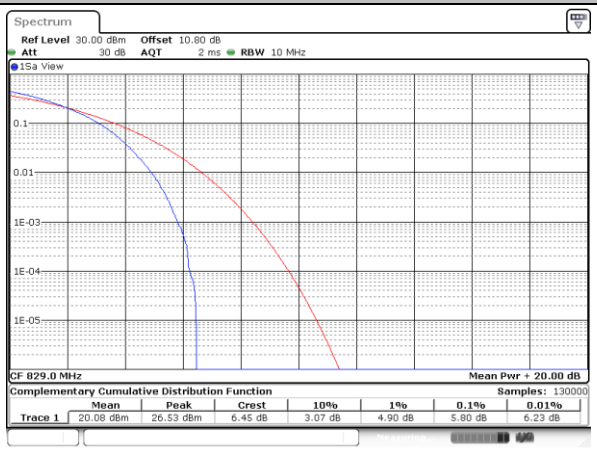
## LTE Band 5 / 10MHz / 64QAM

### Lowest Channel / 1RB



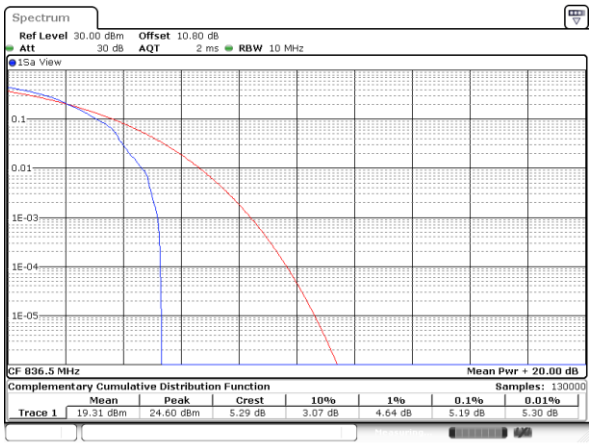

Date: 1.FEB.2018 00:57:36

### Lowest Channel / Full RB



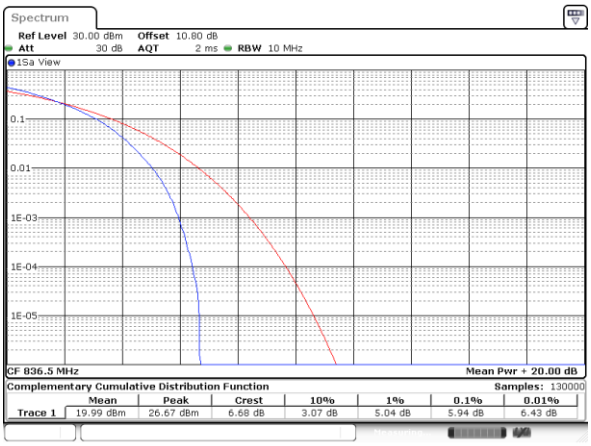

Date: 1.FEB.2018 00:57:50

### Middle Channel / 1RB



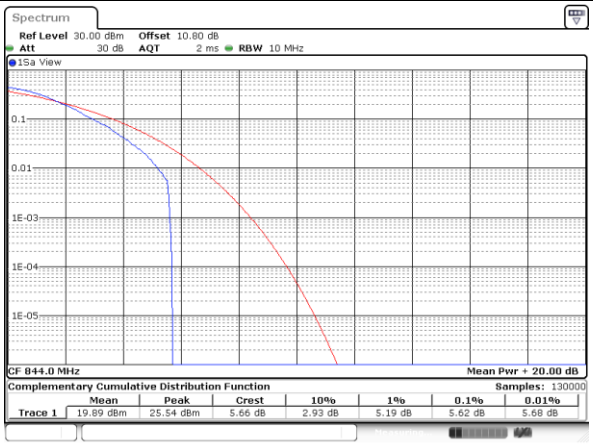

Date: 1.FEB.2018 00:58:04

### Middle Channel / Full RB




Date: 1.FEB.2018 00:58:13

### Highest Channel / 1RB




Date: 1.FEB.2018 00:58:22

### Highest Channel / Full RB

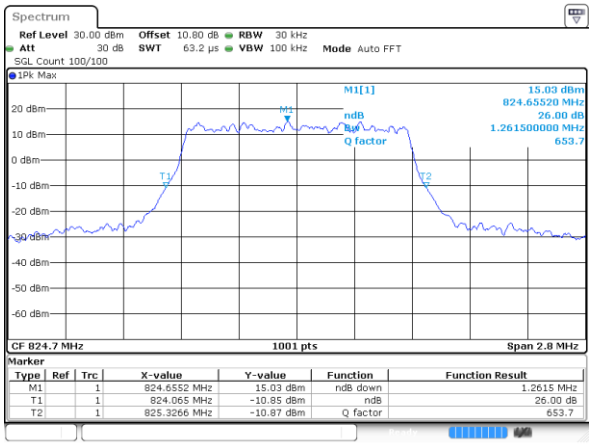
Date: 1.FEB.2018 00:58:31

# 26dB Bandwidth

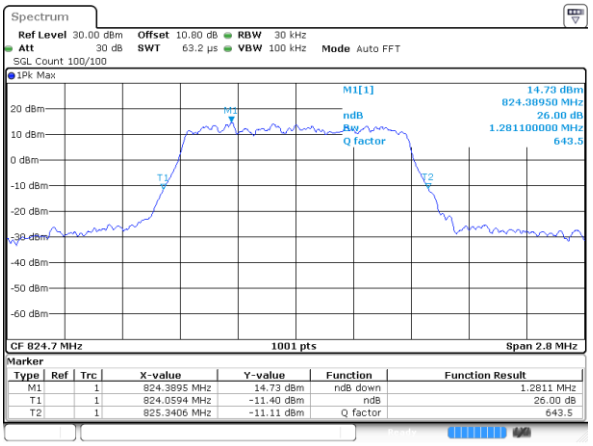
| Mode | LTE Band 5 : 26dB BW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.26 | 1.28 | 3.04 | 3.04 | 4.97 | 4.86 | 9.95 | 9.69 | - | - | - | - |
| Middle CH | 1.28 | 1.30 | 3.04 | 2.95 | 4.93 | 4.91 | 9.97 | 9.67 | - | - | - | - |
| Highest CH | 1.28 | 1.29 | 3.02 | 3.03 | 4.86 | 4.89 | 10.09 | 9.97 | - | - | - | - |
| Mode | LTE Band 5 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | 1.30 | - | 3.03 | - | 4.94 | - | 9.83 | - | - | - | - | - |
| Middle CH | 1.26 | - | 2.99 | - | 4.98 | - | 9.87 | - | - | - | - | - |
| Highest CH | 1.28 | - | 3.02 | - | 4.96 | - | 9.93 | - | - | - | - | - |

## LTE Band 5

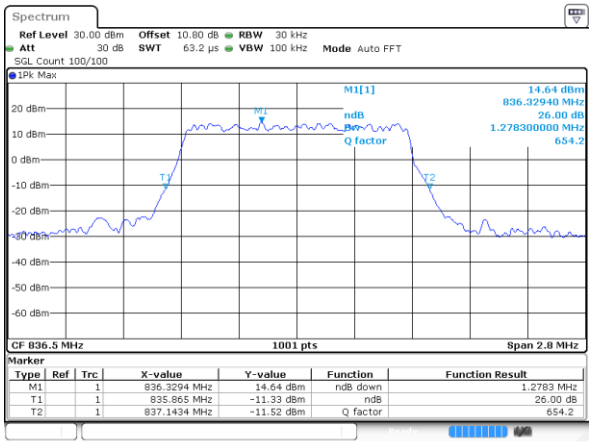
### Lowest Channel / 1.4MHz / QPSK



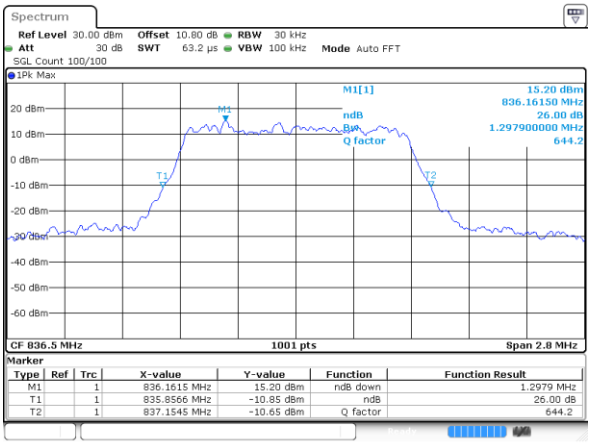

### Lowest Channel / 1.4MHz / 16QAM



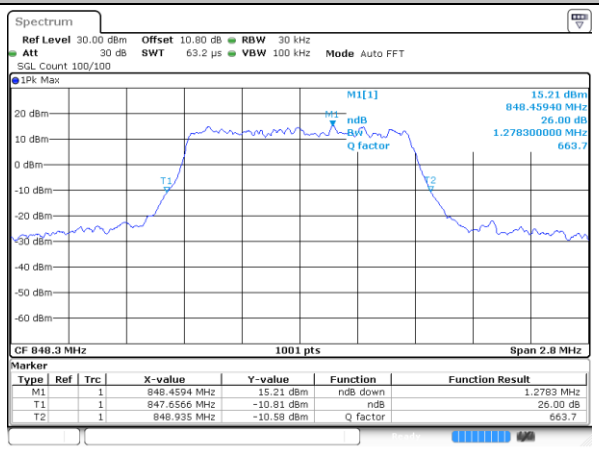

### Middle Channel / 1.4MHz / QPSK



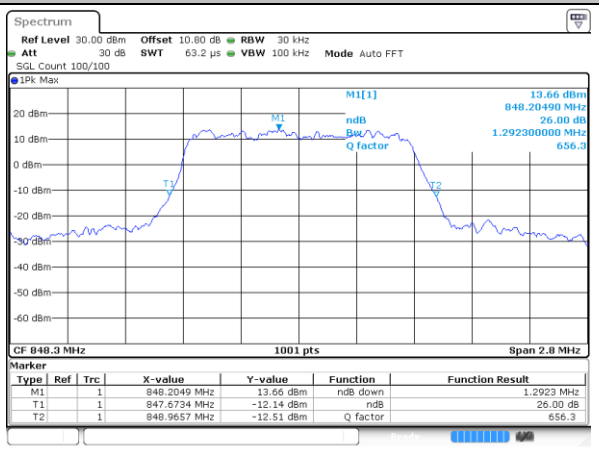

### Middle Channel / 1.4MHz / 16QAM




### Highest Channel / 1.4MHz / QPSK

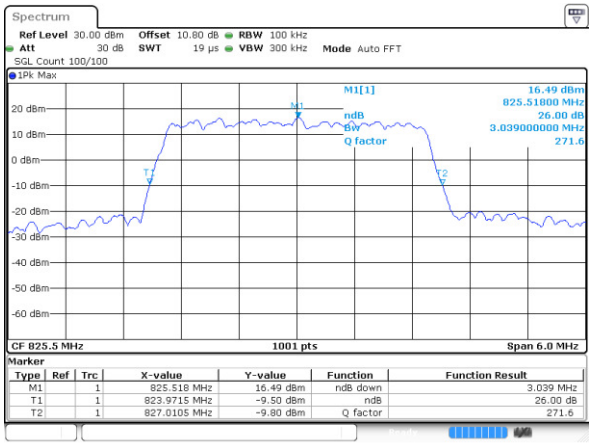



### Highest Channel / 1.4MHz / 16QAM

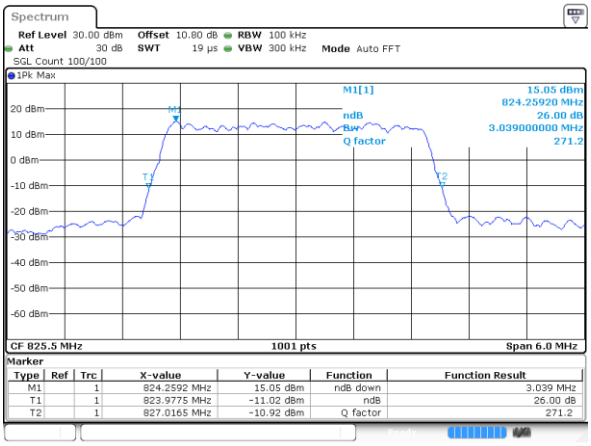


## LTE Band 5

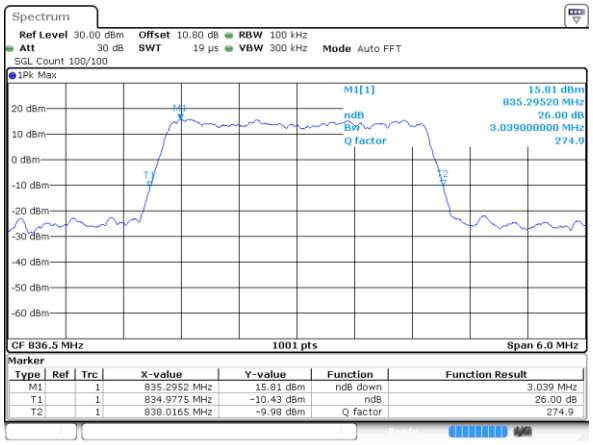
### Lowest Channel / 3MHz / QPSK



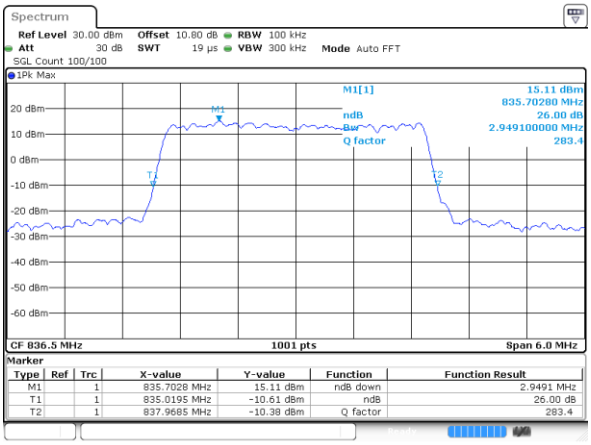

### Lowest Channel / 3MHz / 16QAM



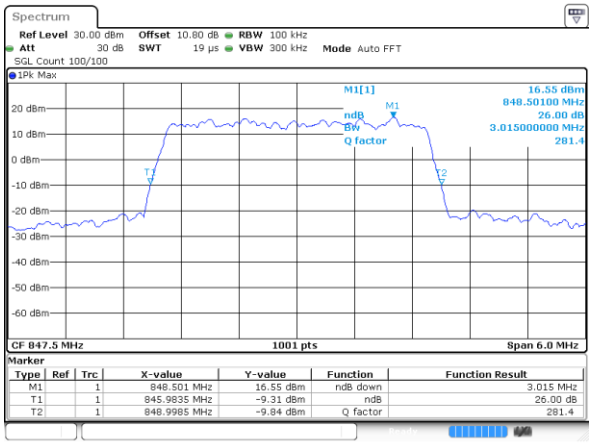

### Middle Channel / 3MHz / QPSK



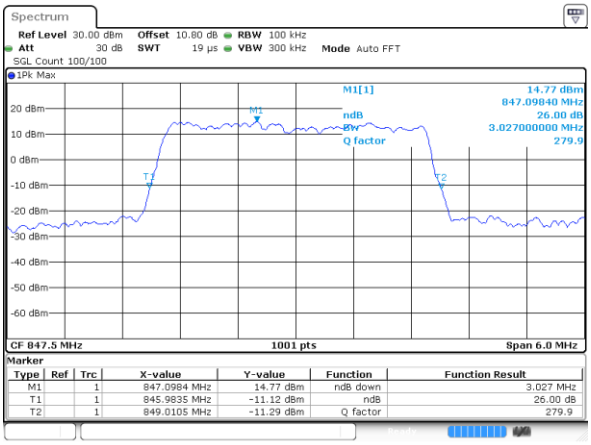

### Middle Channel / 3MHz / 16QAM




### Highest Channel / 3MHz / QPSK

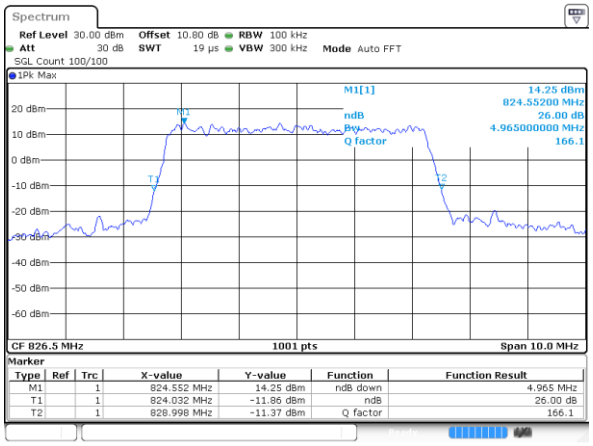



### Highest Channel / 3MHz / 16QAM

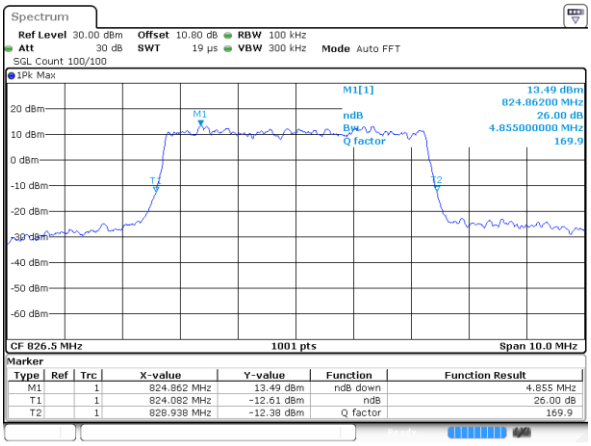


## LTE Band 5

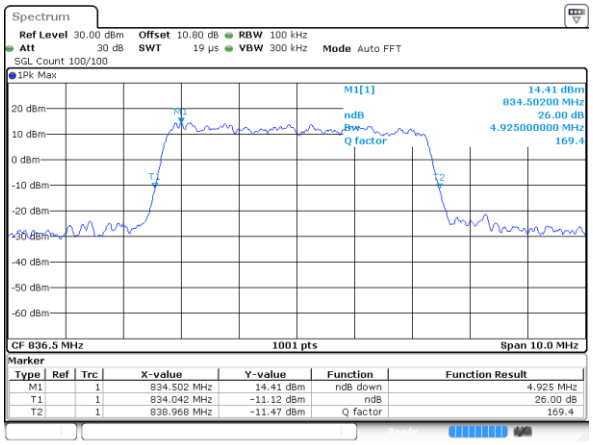
### Lowest Channel / 5MHz / QPSK



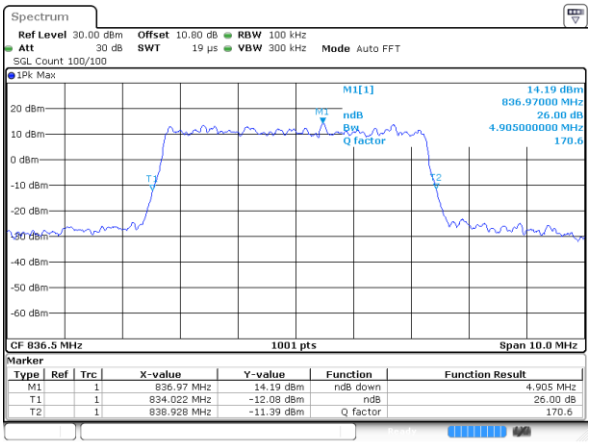

### Lowest Channel / 5MHz / 16QAM



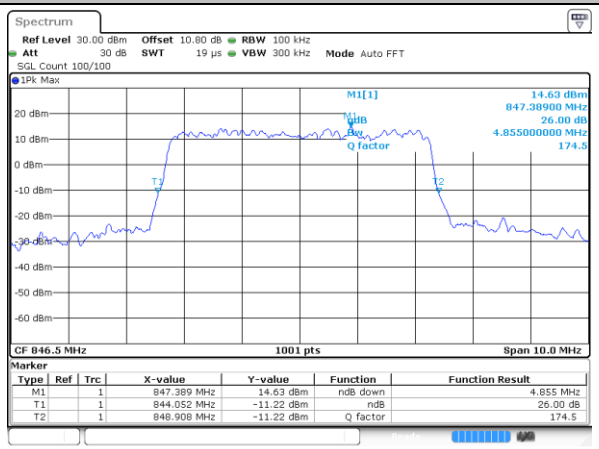

### Middle Channel / 5MHz / QPSK



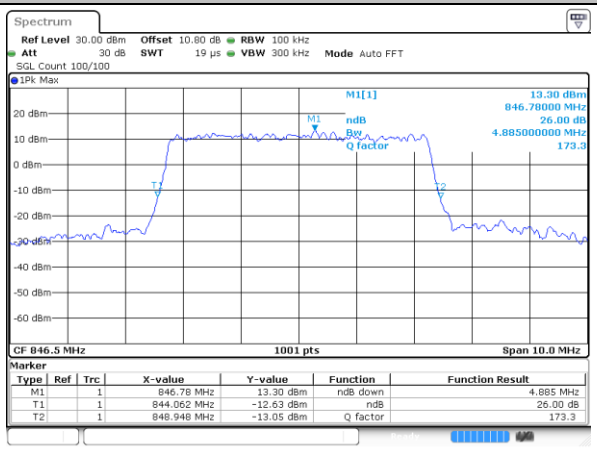

### Middle Channel / 5MHz / 16QAM




### Highest Channel / 5MHz / QPSK

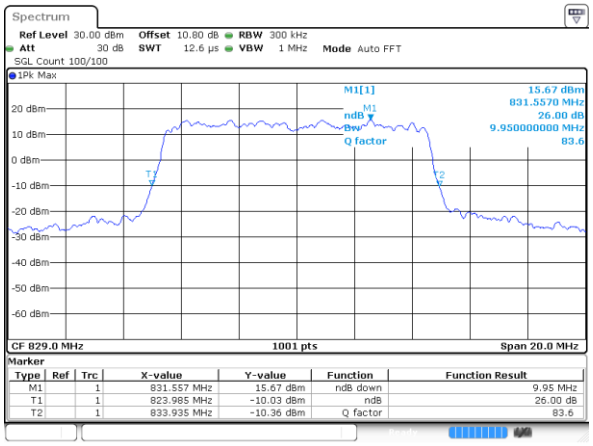



### Highest Channel / 5MHz / 16QAM

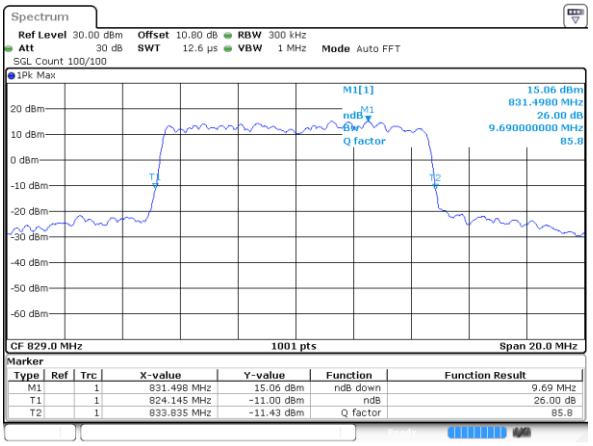


## LTE Band 5

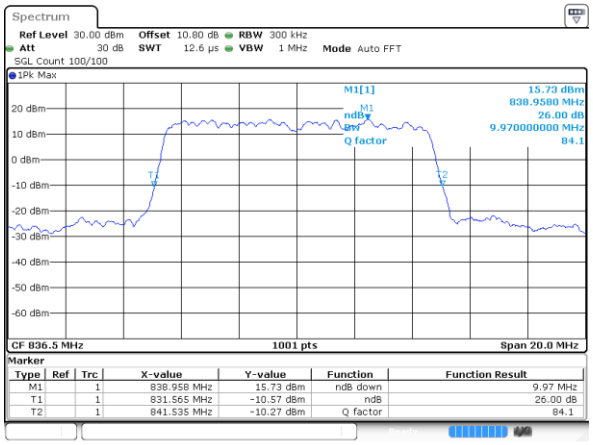
### Lowest Channel / 10MHz / QPSK



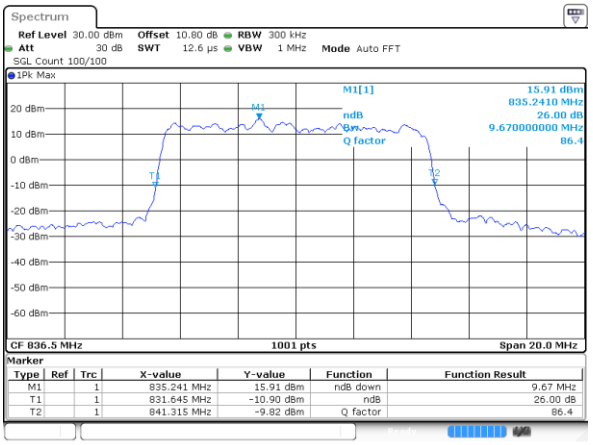

### Lowest Channel / 10MHz / 16QAM



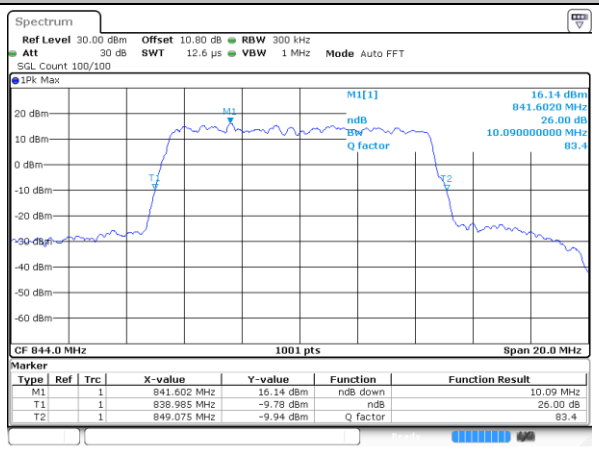

### Middle Channel / 10MHz / QPSK

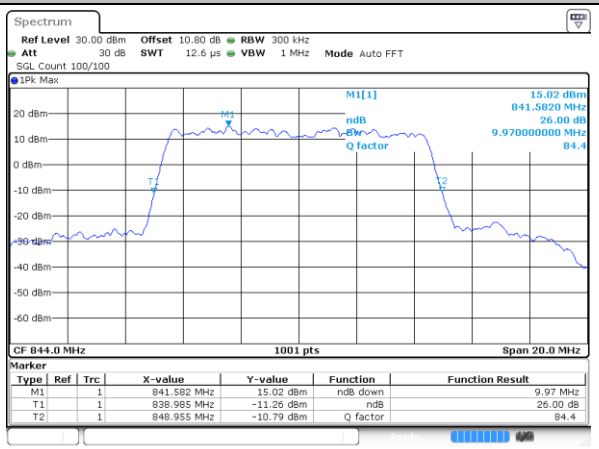



### Middle Channel / 10MHz / 16QAM




### Highest Channel / 10MHz / QPSK




### Highest Channel / 10MHz / 16QAM