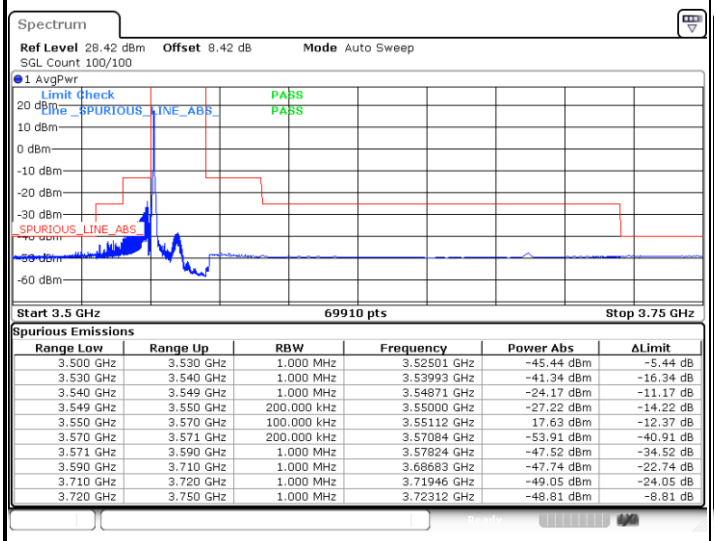
## LTE Band 48 / 20MHz

### 64QAM

#### Lowest Channel / 1RB0

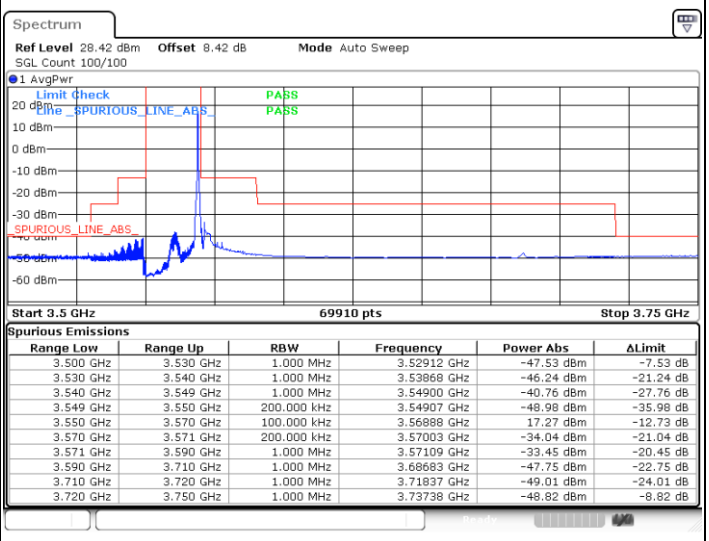



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 3.500 GHz | 3.530 GHz | 1.000 MHz | 3.52501 GHz | -45.44 dBm | -5.44 dB |
| 3.530 GHz | 3.540 GHz | 1.000 MHz | 3.53993 GHz | -41.34 dBm | -16.34 dB |
| 3.540 GHz | 3.549 GHz | 1.000 MHz | 3.54871 GHz | -24.17 dBm | -11.17 dB |
| 3.549 GHz | 3.550 GHz | 200.000 kHz | 3.55000 GHz | -27.22 dBm | -14.22 dB |
| 3.550 GHz | 3.570 GHz | 100.000 kHz | 3.55112 GHz | 17.63 dBm | -12.37 dB |
| 3.570 GHz | 3.571 GHz | 200.000 kHz | 3.57084 GHz | -53.91 dBm | -40.91 dB |
| 3.571 GHz | 3.590 GHz | 1.000 MHz | 3.57824 GHz | -47.52 dBm | -34.52 dB |
| 3.590 GHz | 3.710 GHz | 1.000 MHz | 3.68683 GHz | -47.74 dBm | -22.74 dB |
| 3.710 GHz | 3.720 GHz | 1.000 MHz | 3.71946 GHz | -49.05 dBm | -24.05 dB |
| 3.720 GHz | 3.750 GHz | 1.000 MHz | 3.72312 GHz | -48.81 dBm | -8.81 dB |

Date: 8.SEP.2020 04:03:49

#### Lowest Channel / 1RBmax

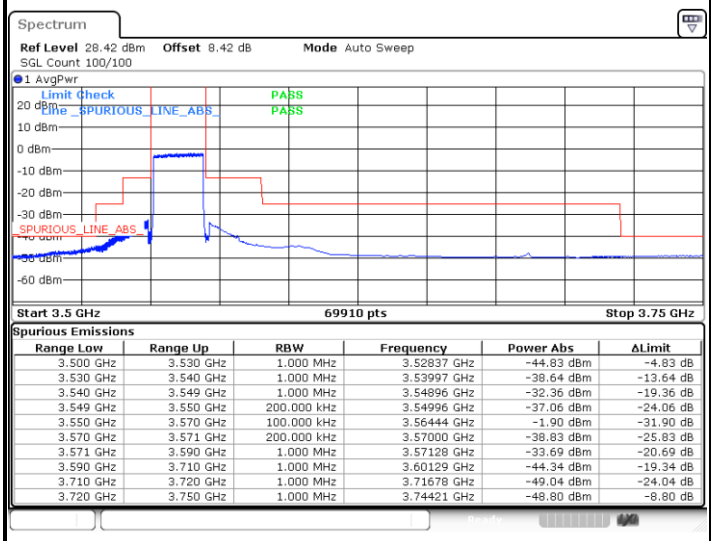



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 3.500 GHz | 3.530 GHz | 1.000 MHz | 3.52912 GHz | -47.53 dBm | -7.53 dB |
| 3.530 GHz | 3.540 GHz | 1.000 MHz | 3.53868 GHz | -46.24 dBm | -21.24 dB |
| 3.540 GHz | 3.549 GHz | 1.000 MHz | 3.54900 GHz | -40.76 dBm | -27.76 dB |
| 3.549 GHz | 3.550 GHz | 200.000 kHz | 3.54907 GHz | -48.98 dBm | -35.98 dB |
| 3.550 GHz | 3.570 GHz | 100.000 kHz | 3.56888 GHz | 17.27 dBm | -12.73 dB |
| 3.570 GHz | 3.571 GHz | 200.000 kHz | 3.57003 GHz | -34.04 dBm | -21.04 dB |
| 3.571 GHz | 3.590 GHz | 1.000 MHz | 3.57109 GHz | -33.45 dBm | -20.45 dB |
| 3.590 GHz | 3.710 GHz | 1.000 MHz | 3.68683 GHz | -47.75 dBm | -22.75 dB |
| 3.710 GHz | 3.720 GHz | 1.000 MHz | 3.71837 GHz | -49.01 dBm | -24.01 dB |
| 3.720 GHz | 3.750 GHz | 1.000 MHz | 3.73738 GHz | -48.82 dBm | -8.82 dB |

Date: 8.SEP.2020 04:14:40

#### Lowest Channel / Full RB




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 3.500 GHz | 3.530 GHz | 1.000 MHz | 3.52837 GHz | -44.83 dBm | -4.83 dB |
| 3.530 GHz | 3.540 GHz | 1.000 MHz | 3.53997 GHz | -38.64 dBm | -13.64 dB |
| 3.540 GHz | 3.549 GHz | 1.000 MHz | 3.54896 GHz | -32.36 dBm | -19.36 dB |
| 3.549 GHz | 3.550 GHz | 200.000 kHz | 3.54996 GHz | -37.06 dBm | -24.06 dB |
| 3.550 GHz | 3.570 GHz | 100.000 kHz | 3.56444 GHz | -1.90 dBm | -31.90 dB |
| 3.570 GHz | 3.571 GHz | 200.000 kHz | 3.57000 GHz | -38.83 dBm | -25.83 dB |
| 3.571 GHz | 3.590 GHz | 1.000 MHz | 3.57128 GHz | -33.69 dBm | -20.69 dB |
| 3.590 GHz | 3.710 GHz | 1.000 MHz | 3.60129 GHz | -44.34 dBm | -19.34 dB |
| 3.710 GHz | 3.720 GHz | 1.000 MHz | 3.71678 GHz | -49.04 dBm | -24.04 dB |
| 3.720 GHz | 3.750 GHz | 1.000 MHz | 3.74421 GHz | -48.80 dBm | -8.80 dB |

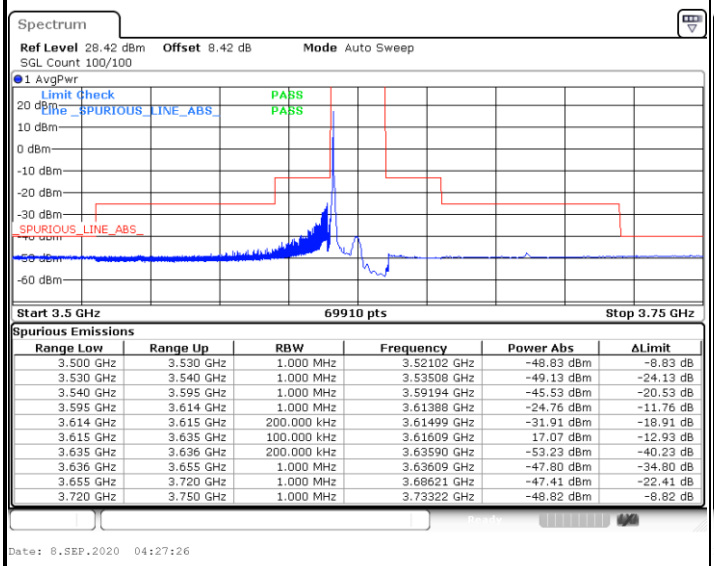
Date: 8.SEP.2020 04:02:18

#### N/A

## LTE Band 48 / 20MHz

### 64QAM

#### Middle Channel / 1RB0

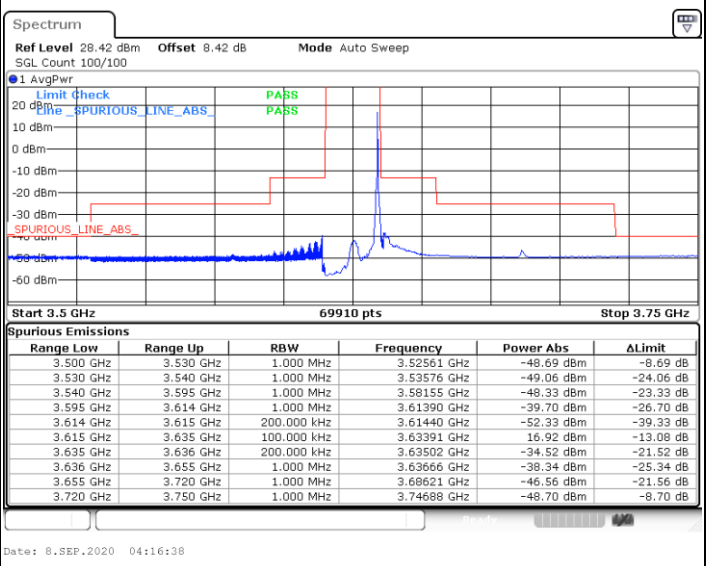



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 3.500 GHz | 3.530 GHz | 1.000 MHz | 3.52102 GHz | -48.83 dBm | -8.83 dB |
| 3.530 GHz | 3.540 GHz | 1.000 MHz | 3.53508 GHz | -49.13 dBm | -24.13 dB |
| 3.540 GHz | 3.595 GHz | 1.000 MHz | 3.59194 GHz | -45.53 dBm | -20.53 dB |
| 3.595 GHz | 3.614 GHz | 1.000 MHz | 3.61388 GHz | -24.76 dBm | -11.76 dB |
| 3.614 GHz | 3.615 GHz | 200.000 kHz | 3.61499 GHz | -31.91 dBm | -18.91 dB |
| 3.615 GHz | 3.635 GHz | 100.000 kHz | 3.61609 GHz | 17.07 dBm | -12.93 dB |
| 3.635 GHz | 3.636 GHz | 200.000 kHz | 3.63590 GHz | -53.23 dBm | -40.23 dB |
| 3.636 GHz | 3.655 GHz | 1.000 MHz | 3.63609 GHz | -47.80 dBm | -34.80 dB |
| 3.655 GHz | 3.720 GHz | 1.000 MHz | 3.68621 GHz | -47.41 dBm | -22.41 dB |
| 3.720 GHz | 3.750 GHz | 1.000 MHz | 3.73322 GHz | -48.82 dBm | -8.82 dB |

Date: 8.SEP.2020 04:27:26

#### Middle Channel / 1RBmax

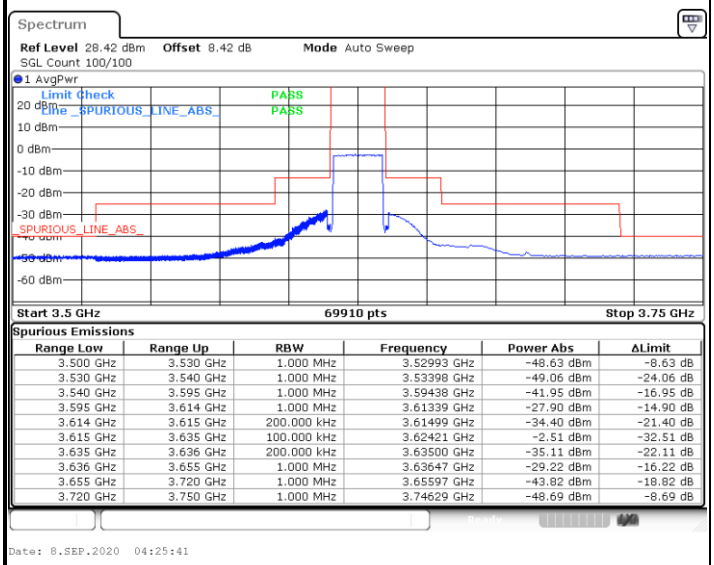



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 3.500 GHz | 3.530 GHz | 1.000 MHz | 3.52561 GHz | -48.69 dBm | -8.69 dB |
| 3.530 GHz | 3.540 GHz | 1.000 MHz | 3.53576 GHz | -49.06 dBm | -24.06 dB |
| 3.540 GHz | 3.595 GHz | 1.000 MHz | 3.58155 GHz | -48.33 dBm | -23.33 dB |
| 3.595 GHz | 3.614 GHz | 1.000 MHz | 3.61390 GHz | -39.70 dBm | -26.70 dB |
| 3.614 GHz | 3.615 GHz | 200.000 kHz | 3.61440 GHz | -52.33 dBm | -39.33 dB |
| 3.615 GHz | 3.635 GHz | 100.000 kHz | 3.63391 GHz | 16.92 dBm | -13.08 dB |
| 3.635 GHz | 3.636 GHz | 200.000 kHz | 3.63502 GHz | -34.52 dBm | -21.52 dB |
| 3.636 GHz | 3.655 GHz | 1.000 MHz | 3.63666 GHz | -38.34 dBm | -25.34 dB |
| 3.655 GHz | 3.720 GHz | 1.000 MHz | 3.68621 GHz | -46.56 dBm | -21.56 dB |
| 3.720 GHz | 3.750 GHz | 1.000 MHz | 3.74688 GHz | -48.70 dBm | -8.70 dB |

Date: 8.SEP.2020 04:16:38

#### Middle Channel / Full RB




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 3.500 GHz | 3.530 GHz | 1.000 MHz | 3.52993 GHz | -48.63 dBm | -8.63 dB |
| 3.530 GHz | 3.540 GHz | 1.000 MHz | 3.53398 GHz | -49.06 dBm | -24.06 dB |
| 3.540 GHz | 3.595 GHz | 1.000 MHz | 3.59438 GHz | -41.95 dBm | -16.95 dB |
| 3.595 GHz | 3.614 GHz | 1.000 MHz | 3.61339 GHz | -27.90 dBm | -14.90 dB |
| 3.614 GHz | 3.615 GHz | 200.000 kHz | 3.61499 GHz | -34.40 dBm | -21.40 dB |
| 3.615 GHz | 3.635 GHz | 100.000 kHz | 3.62421 GHz | -2.51 dBm | -32.51 dB |
| 3.635 GHz | 3.636 GHz | 200.000 kHz | 3.63500 GHz | -35.11 dBm | -22.11 dB |
| 3.636 GHz | 3.655 GHz | 1.000 MHz | 3.63647 GHz | -29.22 dBm | -16.22 dB |
| 3.655 GHz | 3.720 GHz | 1.000 MHz | 3.65597 GHz | -43.82 dBm | -18.82 dB |
| 3.720 GHz | 3.750 GHz | 1.000 MHz | 3.74629 GHz | -48.69 dBm | -8.69 dB |

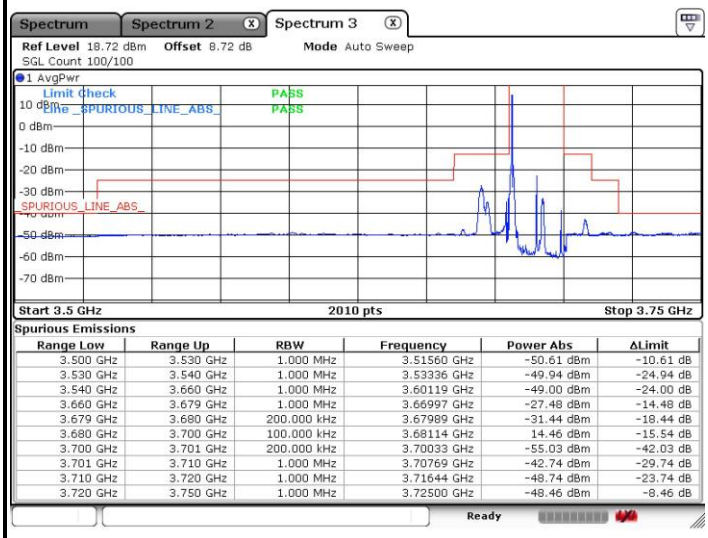
Date: 8.SEP.2020 04:25:41

#### N/A

## LTE Band 48 / 20MHz

### 64QAM

#### Highest Channel / 1RB0

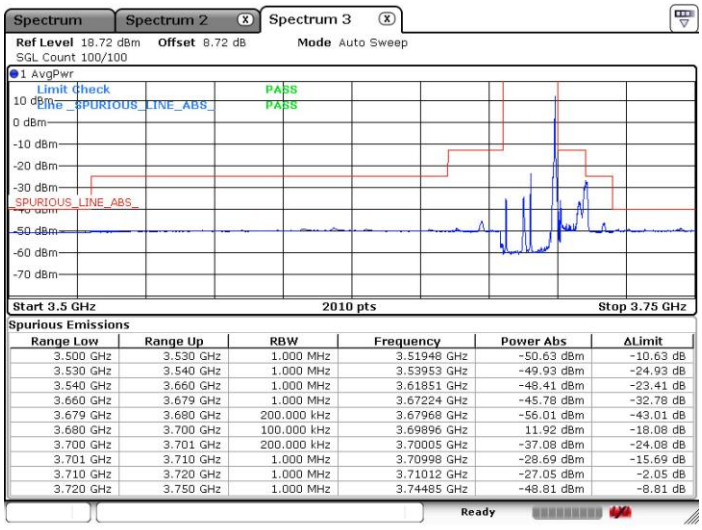



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 3.500 GHz | 3.530 GHz | 1.000 MHz | 3.51560 GHz | -50.61 dBm | -10.61 dB |
| 3.530 GHz | 3.540 GHz | 1.000 MHz | 3.53336 GHz | -49.94 dBm | -24.94 dB |
| 3.540 GHz | 3.660 GHz | 1.000 MHz | 3.60119 GHz | -49.00 dBm | -24.00 dB |
| 3.660 GHz | 3.679 GHz | 1.000 MHz | 3.66997 GHz | -27.48 dBm | -14.48 dB |
| 3.679 GHz | 3.680 GHz | 200.000 kHz | 3.67989 GHz | -31.44 dBm | -18.44 dB |
| 3.680 GHz | 3.700 GHz | 100.000 kHz | 3.68114 GHz | 14.46 dBm | -15.54 dB |
| 3.700 GHz | 3.701 GHz | 200.000 kHz | 3.70033 GHz | -55.03 dBm | -42.03 dB |
| 3.701 GHz | 3.710 GHz | 1.000 MHz | 3.70769 GHz | -42.74 dBm | -29.74 dB |
| 3.710 GHz | 3.720 GHz | 1.000 MHz | 3.71644 GHz | -48.74 dBm | -23.74 dB |
| 3.720 GHz | 3.750 GHz | 1.000 MHz | 3.72500 GHz | -48.46 dBm | -8.46 dB |

Date: 9.SEP.2020 20:19:55

#### Highest Channel / 1RBmax

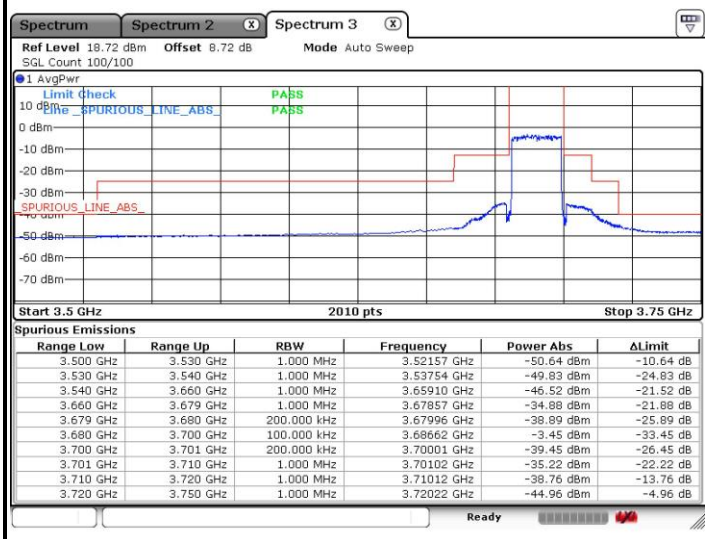



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 3.500 GHz | 3.530 GHz | 1.000 MHz | 3.51948 GHz | -50.63 dBm | -10.63 dB |
| 3.530 GHz | 3.540 GHz | 1.000 MHz | 3.53953 GHz | -49.93 dBm | -24.93 dB |
| 3.540 GHz | 3.660 GHz | 1.000 MHz | 3.61851 GHz | -48.41 dBm | -23.41 dB |
| 3.660 GHz | 3.679 GHz | 1.000 MHz | 3.67224 GHz | -45.78 dBm | -32.78 dB |
| 3.679 GHz | 3.680 GHz | 200.000 kHz | 3.67968 GHz | -56.01 dBm | -43.01 dB |
| 3.680 GHz | 3.700 GHz | 100.000 kHz | 3.69896 GHz | 11.92 dBm | -18.08 dB |
| 3.700 GHz | 3.701 GHz | 200.000 kHz | 3.70005 GHz | -37.08 dBm | -24.08 dB |
| 3.701 GHz | 3.710 GHz | 1.000 MHz | 3.70998 GHz | -28.69 dBm | -15.69 dB |
| 3.710 GHz | 3.720 GHz | 1.000 MHz | 3.71012 GHz | -27.05 dBm | -2.05 dB |
| 3.720 GHz | 3.750 GHz | 1.000 MHz | 3.74485 GHz | -48.81 dBm | -8.81 dB |

Date: 9.SEP.2020 20:27:12

#### Highest Channel / Full RB




Spurious Emissions

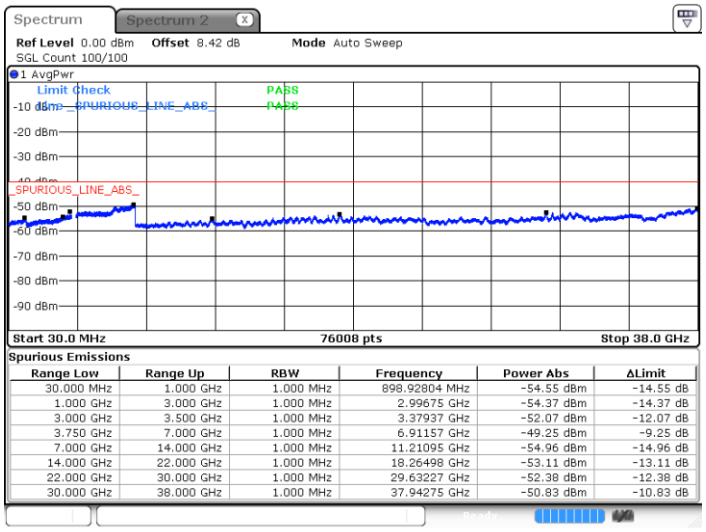
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 3.500 GHz | 3.530 GHz | 1.000 MHz | 3.52157 GHz | -50.64 dBm | -10.64 dB |
| 3.530 GHz | 3.540 GHz | 1.000 MHz | 3.53754 GHz | -49.83 dBm | -24.83 dB |
| 3.540 GHz | 3.660 GHz | 1.000 MHz | 3.65910 GHz | -46.52 dBm | -21.52 dB |
| 3.660 GHz | 3.679 GHz | 1.000 MHz | 3.67857 GHz | -34.88 dBm | -21.88 dB |
| 3.679 GHz | 3.680 GHz | 200.000 kHz | 3.67996 GHz | -38.89 dBm | -25.89 dB |
| 3.680 GHz | 3.700 GHz | 100.000 kHz | 3.68662 GHz | -3.45 dBm | -33.45 dB |
| 3.700 GHz | 3.701 GHz | 200.000 kHz | 3.70001 GHz | -39.45 dBm | -26.45 dB |
| 3.701 GHz | 3.710 GHz | 1.000 MHz | 3.70102 GHz | -35.22 dBm | -22.22 dB |
| 3.710 GHz | 3.720 GHz | 1.000 MHz | 3.71012 GHz | -38.76 dBm | -13.76 dB |
| 3.720 GHz | 3.750 GHz | 1.000 MHz | 3.72022 GHz | -44.96 dBm | -4.96 dB |

Date: 9.SEP.2020 20:19:02

#### N/A

# Conducted Spurious Emission

| LTE Band 48 / 5MHz |
|---|
| QPSK |
| Lowest Channel / 1RB0 |

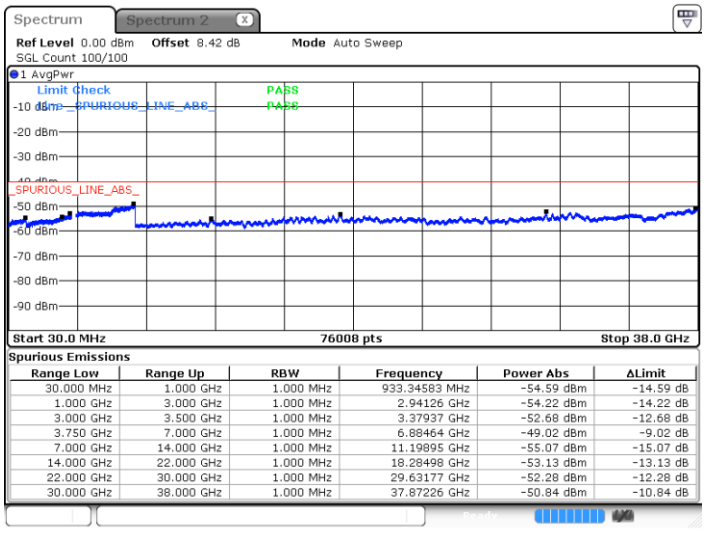



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 898.92804 MHz | -54.55 dBm | -14.55 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99675 GHz | -54.37 dBm | -14.37 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -52.07 dBm | -12.07 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.91157 GHz | -49.25 dBm | -9.25 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.21095 GHz | -54.96 dBm | -14.96 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.26498 GHz | -53.11 dBm | -13.11 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.63227 GHz | -52.38 dBm | -12.38 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.94275 GHz | -50.83 dBm | -10.83 dB |

Date: 8.SEP.2020 16:24:53

| LTE Band 48 / 5MHz |
|---|
| QPSK |
| Middle Channel / 1RB0 |

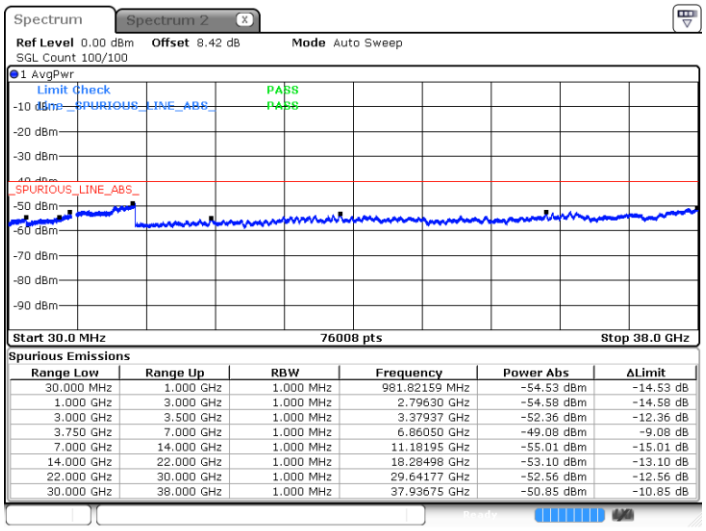



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 933.34583 MHz | -54.59 dBm | -14.59 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.94126 GHz | -54.22 dBm | -14.22 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -52.68 dBm | -12.68 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.88464 GHz | -49.02 dBm | -9.02 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.19895 GHz | -55.07 dBm | -15.07 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.28498 GHz | -53.13 dBm | -13.13 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.63177 GHz | -52.28 dBm | -12.28 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.87226 GHz | -50.84 dBm | -10.84 dB |

Date: 8.SEP.2020 16:31:35

| LTE Band 48 / 5MHz |
|---|
| QPSK |
| Highest Channel / 1RB0 |

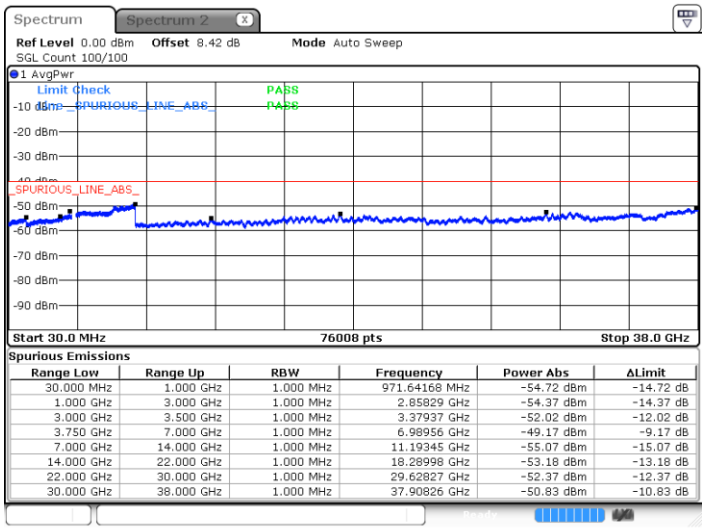



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 981.82159 MHz | -54.53 dBm | -14.53 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.79630 GHz | -54.58 dBm | -14.58 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -52.36 dBm | -12.36 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.86050 GHz | -49.08 dBm | -9.08 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.18195 GHz | -55.01 dBm | -15.01 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.28498 GHz | -53.10 dBm | -13.10 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.64177 GHz | -52.56 dBm | -12.56 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.93675 GHz | -50.85 dBm | -10.85 dB |

Date: 8.SEP.2020 16:33:12

| LTE Band 48 / 10MHz |
|---|
| QPSK |
| Lowest Channel / 1RB0 |

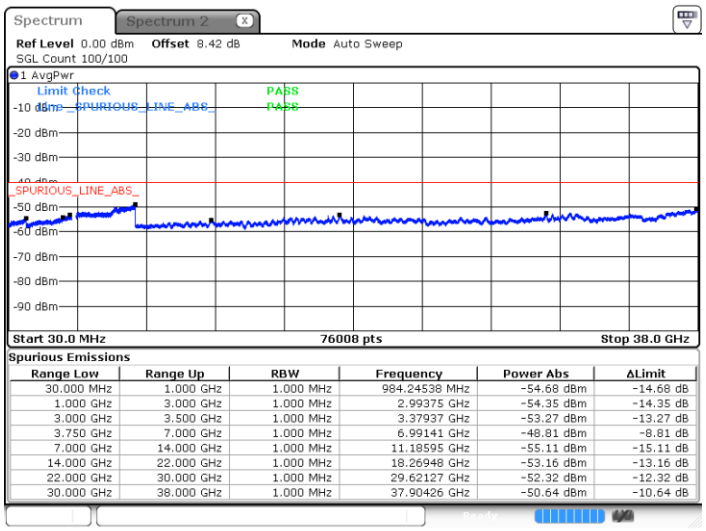



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 971.64168 MHz | -54.72 dBm | -14.72 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.85829 GHz | -54.37 dBm | -14.37 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -52.02 dBm | -12.02 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.98956 GHz | -49.17 dBm | -9.17 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.19345 GHz | -55.07 dBm | -15.07 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.28998 GHz | -53.18 dBm | -13.18 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.62827 GHz | -52.37 dBm | -12.37 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.90826 GHz | -50.83 dBm | -10.83 dB |

Date: 8.SEP.2020 16:45:57

| LTE Band 48 / 10MHz |
|---|
| QPSK |
| Middle Channel / 1RB0 |

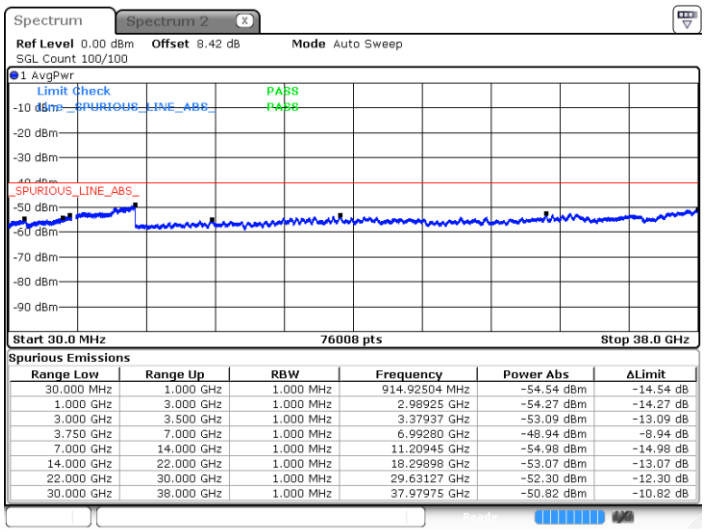



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 984.24538 MHz | -54.68 dBm | -14.68 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99375 GHz | -54.35 dBm | -14.35 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -53.27 dBm | -13.27 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.99141 GHz | -48.81 dBm | -8.81 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.18595 GHz | -55.11 dBm | -15.11 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.26948 GHz | -53.16 dBm | -13.16 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.62127 GHz | -52.32 dBm | -12.32 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.90426 GHz | -50.64 dBm | -10.64 dB |

Date: 8.SEP.2020 16:47:25

| LTE Band 48 / 10MHz |
|---|
| QPSK |
| Highest Channel / 1RB0 |

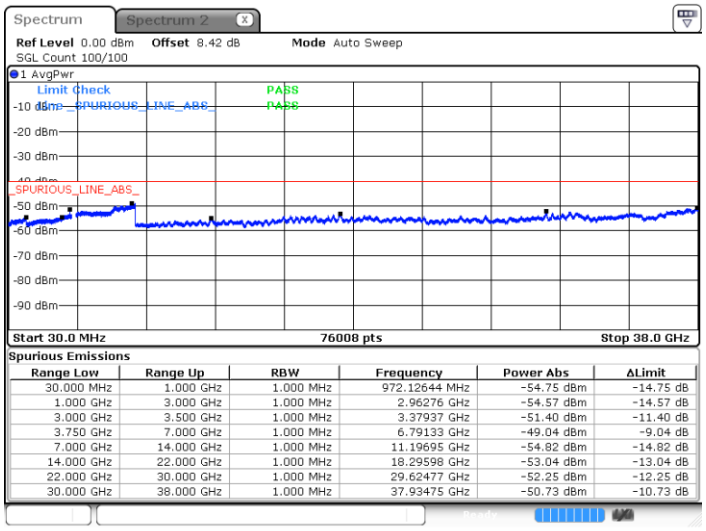



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 914.92504 MHz | -54.54 dBm | -14.54 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.98925 GHz | -54.27 dBm | -14.27 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -53.09 dBm | -13.09 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.99280 GHz | -48.94 dBm | -8.94 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.20945 GHz | -54.98 dBm | -14.98 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.29898 GHz | -53.07 dBm | -13.07 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.63127 GHz | -52.30 dBm | -12.30 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.97975 GHz | -50.82 dBm | -10.82 dB |

Date: 8.SEP.2020 16:53:58

| LTE Band 48 / 15MHz |
|---|
| QPSK |
| Lowest Channel / 1RB0 |

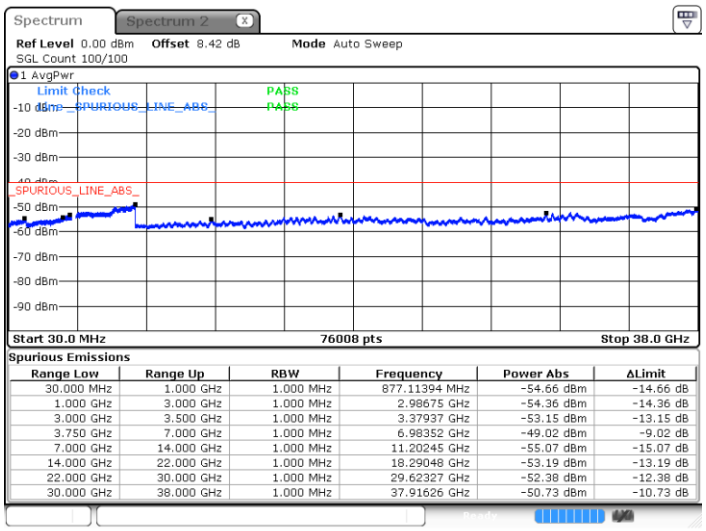



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 972.12644 MHz | -54.75 dBm | -14.75 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.96276 GHz | -54.57 dBm | -14.57 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -51.40 dBm | -11.40 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.79133 GHz | -49.04 dBm | -9.04 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.19695 GHz | -54.82 dBm | -14.82 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.29598 GHz | -53.04 dBm | -13.04 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.62477 GHz | -52.25 dBm | -12.25 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.93475 GHz | -50.73 dBm | -10.73 dB |

Date: 8.SEP.2020 17:10:13

| LTE Band 48 / 15MHz |
|---|
| QPSK |
| Middle Channel / 1RB0 |

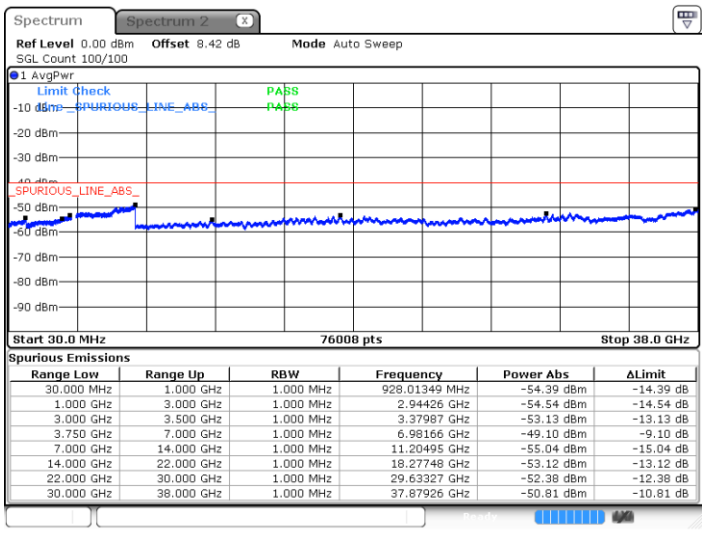



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 877.11394 MHz | -54.66 dBm | -14.66 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.98675 GHz | -54.36 dBm | -14.36 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -53.15 dBm | -13.15 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.98352 GHz | -49.02 dBm | -9.02 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.20245 GHz | -55.07 dBm | -15.07 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.29048 GHz | -53.19 dBm | -13.19 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.62327 GHz | -52.38 dBm | -12.38 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.91626 GHz | -50.73 dBm | -10.73 dB |

Date: 8.SEP.2020 17:26:37

| LTE Band 48 / 15MHz |
|---|
| QPSK |
| Highest Channel / 1RB0 |

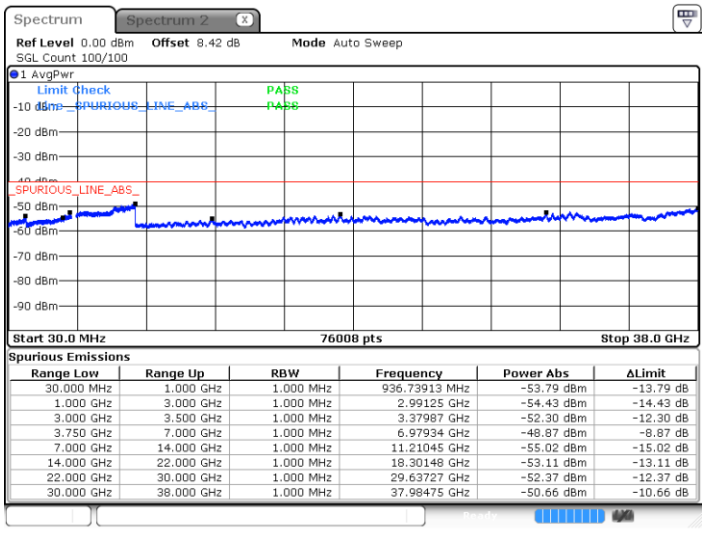



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 928.01349 MHz | -54.39 dBm | -14.39 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.94426 GHz | -54.54 dBm | -14.54 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37987 GHz | -53.13 dBm | -13.13 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.98166 GHz | -49.10 dBm | -9.10 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.20495 GHz | -55.04 dBm | -15.04 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.27748 GHz | -53.12 dBm | -13.12 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.63327 GHz | -52.38 dBm | -12.38 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.87926 GHz | -50.81 dBm | -10.81 dB |

Date: 8.SEP.2020 17:34:59

| LTE Band 48 / 20MHz |
|---|
| QPSK |
| Lowest Channel / 1RB0 |

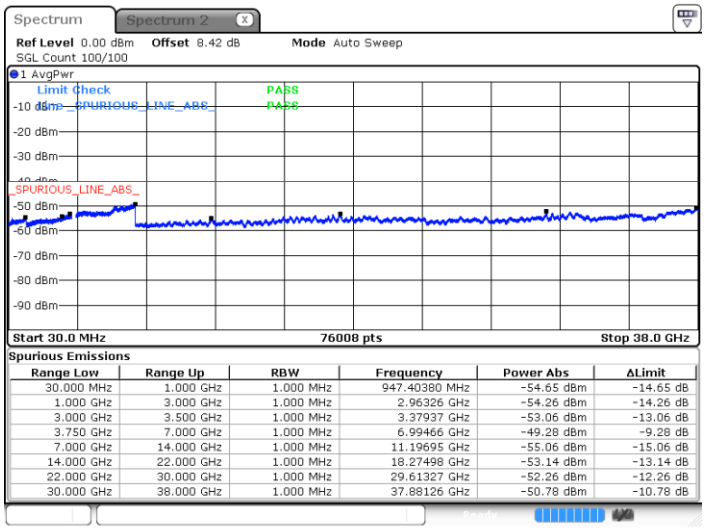



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 936.73913 MHz | -53.79 dBm | -13.79 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99125 GHz | -54.43 dBm | -14.43 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37987 GHz | -52.30 dBm | -12.30 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.97934 GHz | -48.87 dBm | -8.87 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.21045 GHz | -55.02 dBm | -15.02 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.30148 GHz | -53.11 dBm | -13.11 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.63727 GHz | -52.37 dBm | -12.37 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.98475 GHz | -50.66 dBm | -10.66 dB |

Date: 8.SEP.2020 17:42:22

| LTE Band 48 / 20MHz |
|---|
| QPSK |
| Middle Channel / 1RB0 |

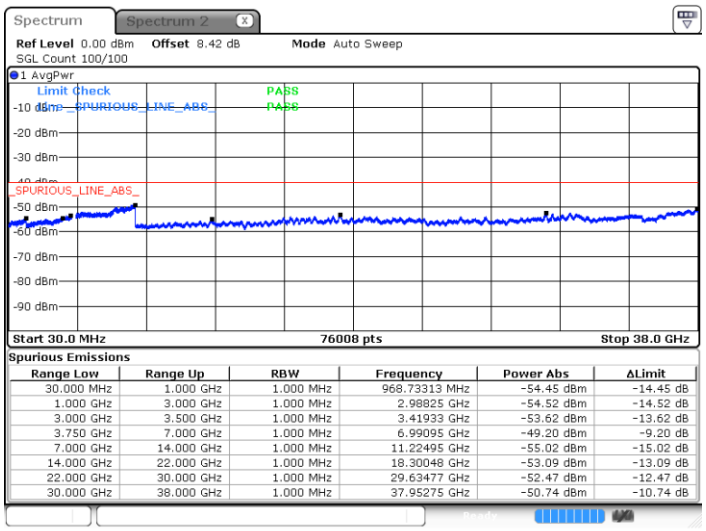



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 947.40380 MHz | -54.65 dBm | -14.65 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.96326 GHz | -54.26 dBm | -14.26 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -53.06 dBm | -13.06 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.99466 GHz | -49.28 dBm | -9.28 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.19695 GHz | -55.06 dBm | -15.06 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.27498 GHz | -53.14 dBm | -13.14 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.61327 GHz | -52.26 dBm | -12.26 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.88126 GHz | -50.78 dBm | -10.78 dB |

Date: 8.SEP.2020 17:46:53

| LTE Band 48 / 20MHz |
|---|
| QPSK |
| Highest Channel / 1RB0 |

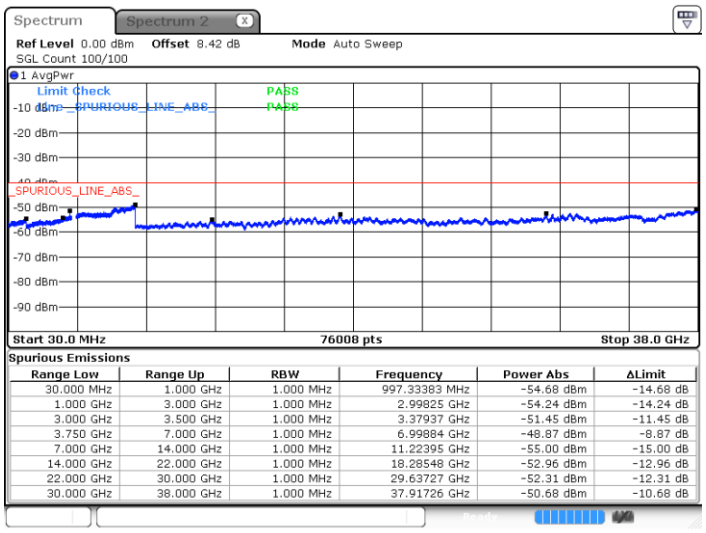



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 968.73313 MHz | -54.45 dBm | -14.45 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.98825 GHz | -54.52 dBm | -14.52 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.41933 GHz | -53.62 dBm | -13.62 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.99095 GHz | -49.20 dBm | -9.20 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.22495 GHz | -55.02 dBm | -15.02 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.30048 GHz | -53.09 dBm | -13.09 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.63477 GHz | -52.47 dBm | -12.47 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.95275 GHz | -50.74 dBm | -10.74 dB |

Date: 8.SEP.2020 17:55:12

| LTE Band 48 / 5MHz |
|---|
| 16QAM |
| Lowest Channel / 1RB0 |

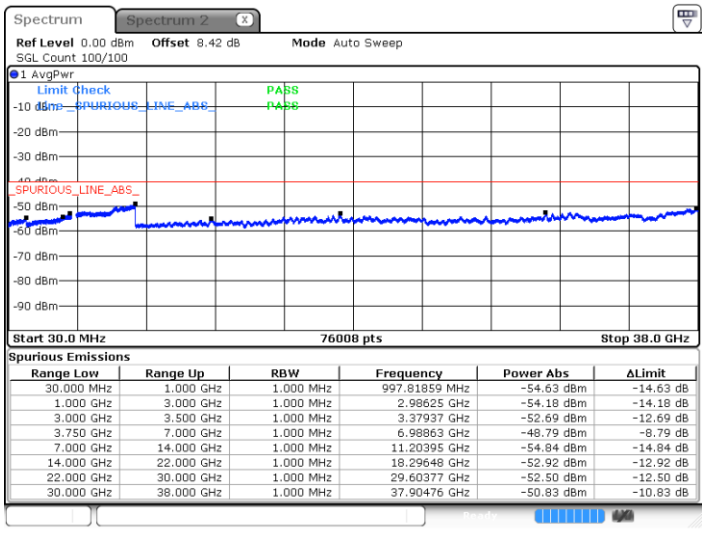



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 997.33383 MHz | -54.68 dBm | -14.68 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99825 GHz | -54.24 dBm | -14.24 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -51.45 dBm | -11.45 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.99884 GHz | -48.87 dBm | -8.87 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.22395 GHz | -55.00 dBm | -15.00 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.28548 GHz | -52.96 dBm | -12.96 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.63727 GHz | -52.31 dBm | -12.31 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.91726 GHz | -50.68 dBm | -10.68 dB |

Date: 8.SEP.2020 16:26:02

| LTE Band 48 / 5MHz |
|---|
| 16QAM |
| Middle Channel / 1RB0 |

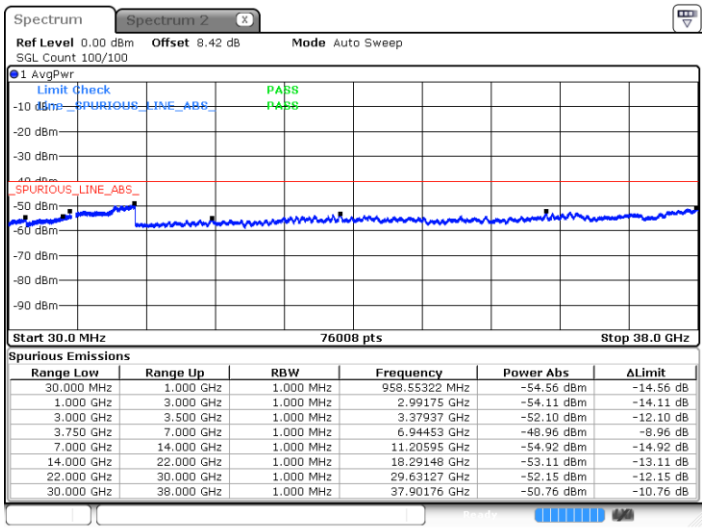



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 997.81859 MHz | -54.63 dBm | -14.63 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.98625 GHz | -54.18 dBm | -14.18 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -52.69 dBm | -12.69 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.98863 GHz | -48.79 dBm | -8.79 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.20395 GHz | -54.84 dBm | -14.84 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.29648 GHz | -52.92 dBm | -12.92 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.60377 GHz | -52.50 dBm | -12.50 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.90476 GHz | -50.83 dBm | -10.83 dB |

Date: 8.SEP.2020 16:29:58

| LTE Band 48 / 5MHz |
|---|
| 16QAM |
| Highest Channel / 1RB0 |

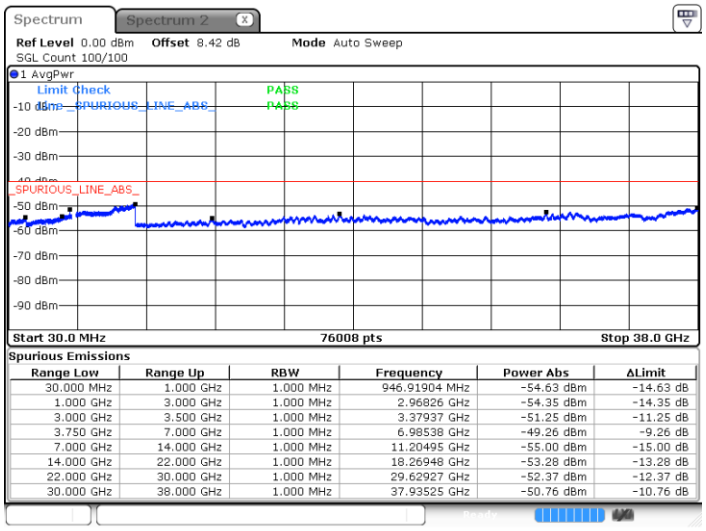



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 958.55322 MHz | -54.56 dBm | -14.56 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99175 GHz | -54.11 dBm | -14.11 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -52.10 dBm | -12.10 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.94453 GHz | -48.96 dBm | -8.96 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.20595 GHz | -54.92 dBm | -14.92 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.29148 GHz | -53.11 dBm | -13.11 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.63127 GHz | -52.15 dBm | -12.15 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.90176 GHz | -50.76 dBm | -10.76 dB |

Date: 8.SEP.2020 16:34:42

| LTE Band 48 / 10MHz |
|---|
| 16QAM |
| Lowest Channel / 1RB0 |

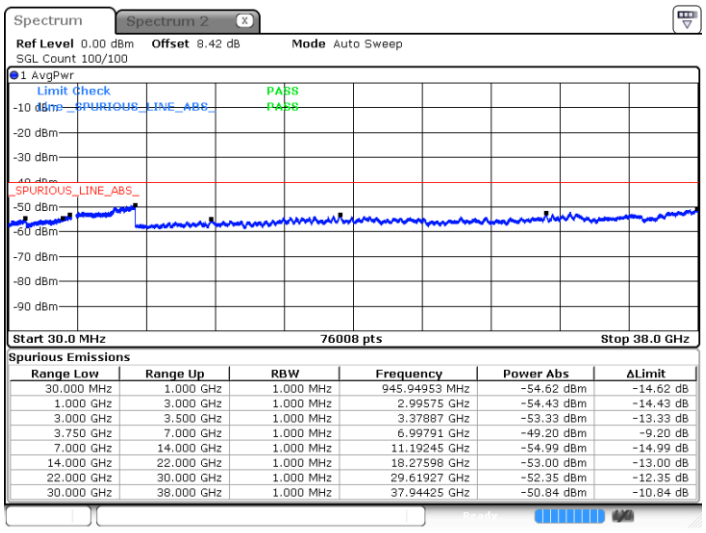



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 946.91904 MHz | -54.63 dBm | -14.63 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.96826 GHz | -54.35 dBm | -14.35 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -51.25 dBm | -11.25 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.98538 GHz | -49.26 dBm | -9.26 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.20495 GHz | -55.00 dBm | -15.00 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.26948 GHz | -53.28 dBm | -13.28 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.62927 GHz | -52.37 dBm | -12.37 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.93525 GHz | -50.76 dBm | -10.76 dB |

Date: 8.SEP.2020 16:44:51

| LTE Band 48 / 10MHz |
|---|
| 16QAM |
| Middle Channel / 1RB0 |

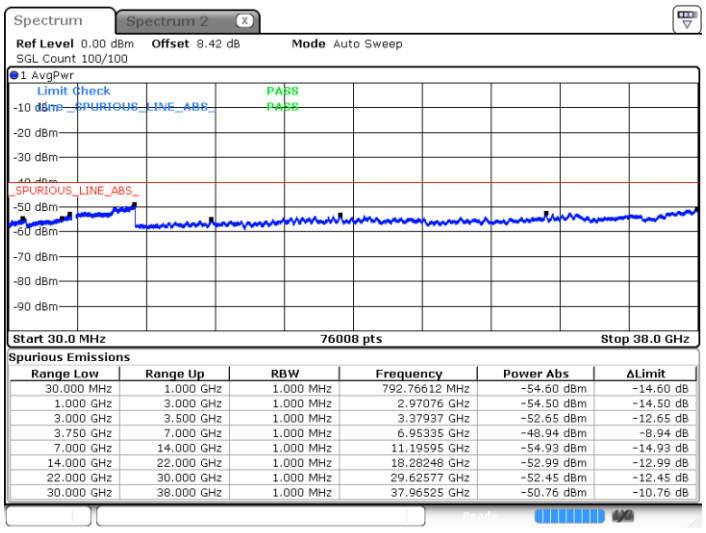



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 945.94953 MHz | -54.62 dBm | -14.62 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99575 GHz | -54.43 dBm | -14.43 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37887 GHz | -53.33 dBm | -13.33 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.99791 GHz | -49.20 dBm | -9.20 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.19245 GHz | -54.99 dBm | -14.99 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.27598 GHz | -53.00 dBm | -13.00 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.61927 GHz | -52.35 dBm | -12.35 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.94425 GHz | -50.84 dBm | -10.84 dB |

Date: 8.SEP.2020 16:48:37

| LTE Band 48 / 10MHz |
|---|
| 16QAM |
| Highest Channel / 1RB0 |

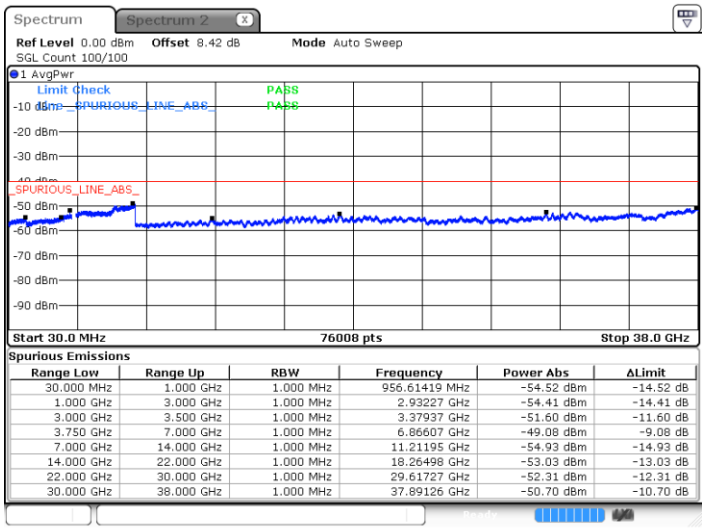



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 792.76612 MHz | -54.60 dBm | -14.60 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.97076 GHz | -54.50 dBm | -14.50 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -52.65 dBm | -12.65 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.95335 GHz | -48.94 dBm | -8.94 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.19595 GHz | -54.93 dBm | -14.93 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.28248 GHz | -52.99 dBm | -12.99 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.62577 GHz | -52.45 dBm | -12.45 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.96525 GHz | -50.76 dBm | -10.76 dB |

Date: 8.SEP.2020 16:52:38

| LTE Band 48 / 15MHz |
|---|
| 16QAM |
| Lowest Channel / 1RB0 |

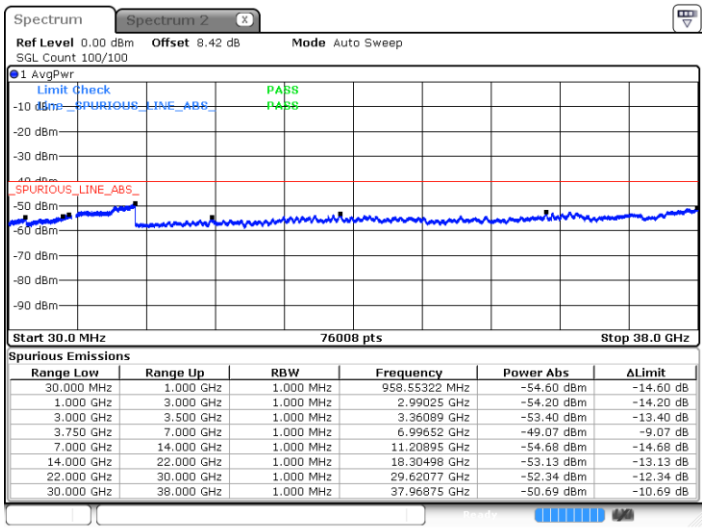



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 956.61419 MHz | -54.52 dBm | -14.52 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.93227 GHz | -54.41 dBm | -14.41 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -51.60 dBm | -11.60 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.86607 GHz | -49.08 dBm | -9.08 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.21195 GHz | -54.93 dBm | -14.93 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.26498 GHz | -53.03 dBm | -13.03 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.61727 GHz | -52.31 dBm | -12.31 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.89126 GHz | -50.70 dBm | -10.70 dB |

Date: 8.SEP.2020 17:11:22

| LTE Band 48 / 15MHz |
|---|
| 16QAM |
| Middle Channel / 1RB0 |

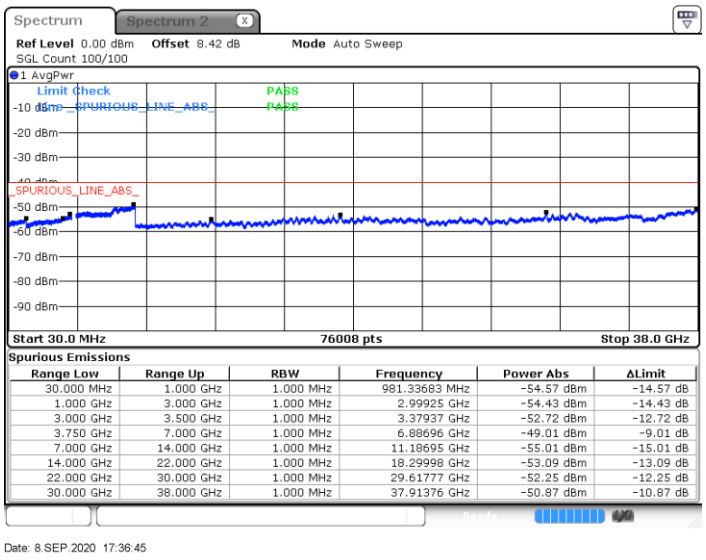



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 958.55322 MHz | -54.60 dBm | -14.60 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99025 GHz | -54.20 dBm | -14.20 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.36089 GHz | -53.40 dBm | -13.40 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.99652 GHz | -49.07 dBm | -9.07 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.20895 GHz | -54.68 dBm | -14.68 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.30498 GHz | -53.13 dBm | -13.13 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.62077 GHz | -52.34 dBm | -12.34 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.96875 GHz | -50.69 dBm | -10.69 dB |

Date: 8.SEP.2020 17:25:02

| LTE Band 48 / 15MHz |
|---|
| 16QAM |
| Highest Channel / 1RB0 |

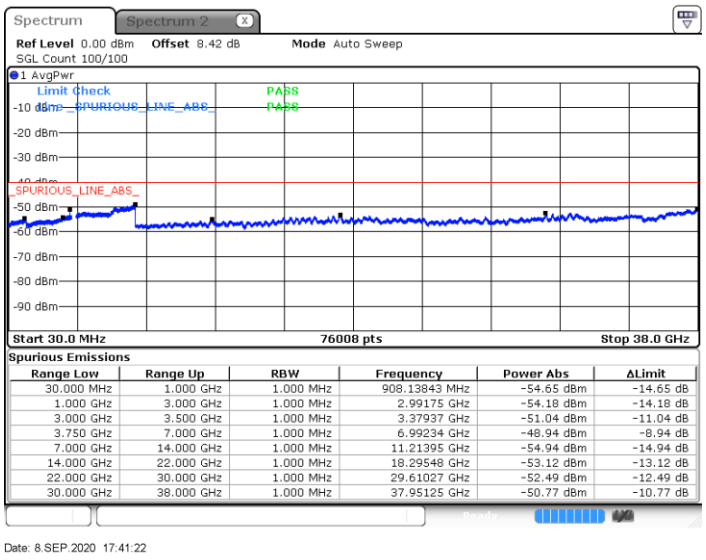



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 981.33683 MHz | -54.57 dBm | -14.57 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99925 GHz | -54.43 dBm | -14.43 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -52.72 dBm | -12.72 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.88696 GHz | -49.01 dBm | -9.01 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.18695 GHz | -55.01 dBm | -15.01 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.29998 GHz | -53.09 dBm | -13.09 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.61777 GHz | -52.25 dBm | -12.25 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.91376 GHz | -50.87 dBm | -10.87 dB |

Date: 8.SEP.2020 17:36:45

| LTE Band 48 / 20MHz |
|---|
| 16QAM |
| Lowest Channel / 1RB0 |

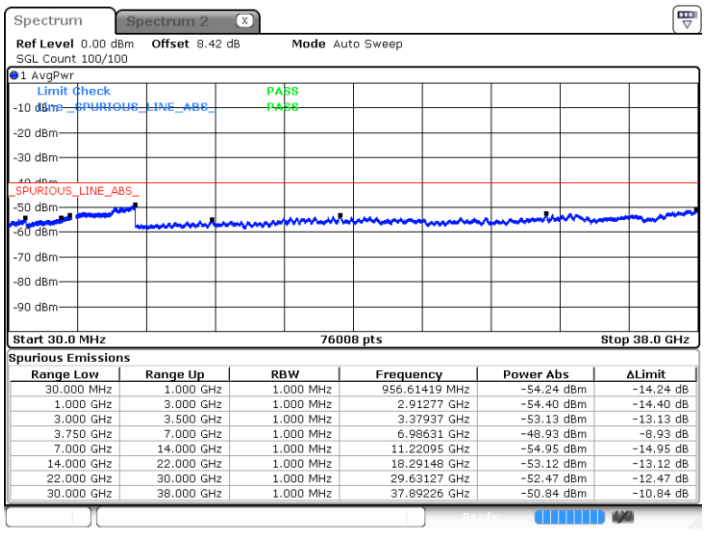



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 908.13843 MHz | -54.65 dBm | -14.65 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99175 GHz | -54.18 dBm | -14.18 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -51.04 dBm | -11.04 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.99234 GHz | -48.94 dBm | -8.94 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.21395 GHz | -54.94 dBm | -14.94 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.29548 GHz | -53.12 dBm | -13.12 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.61027 GHz | -52.49 dBm | -12.49 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.95125 GHz | -50.77 dBm | -10.77 dB |

Date: 8.SEP.2020 17:41:22

| LTE Band 48 / 20MHz |
|---|
| 16QAM |
| Middle Channel / 1RB0 |

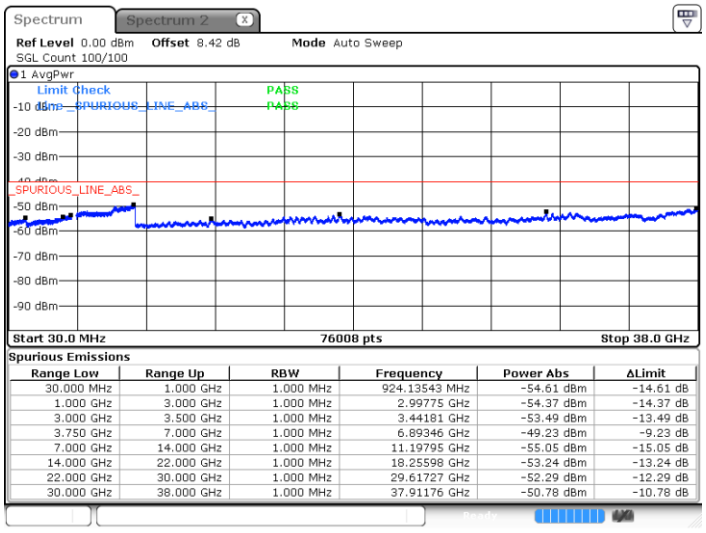



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 956.61419 MHz | -54.24 dBm | -14.24 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.91277 GHz | -54.40 dBm | -14.40 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -53.13 dBm | -13.13 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.98631 GHz | -48.93 dBm | -8.93 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.22095 GHz | -54.95 dBm | -14.95 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.29148 GHz | -53.12 dBm | -13.12 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.63127 GHz | -52.47 dBm | -12.47 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.89226 GHz | -50.84 dBm | -10.84 dB |

Date: 8.SEP.2020 17:47:55

| LTE Band 48 / 20MHz |
|---|
| 16QAM |
| Highest Channel / 1RB0 |

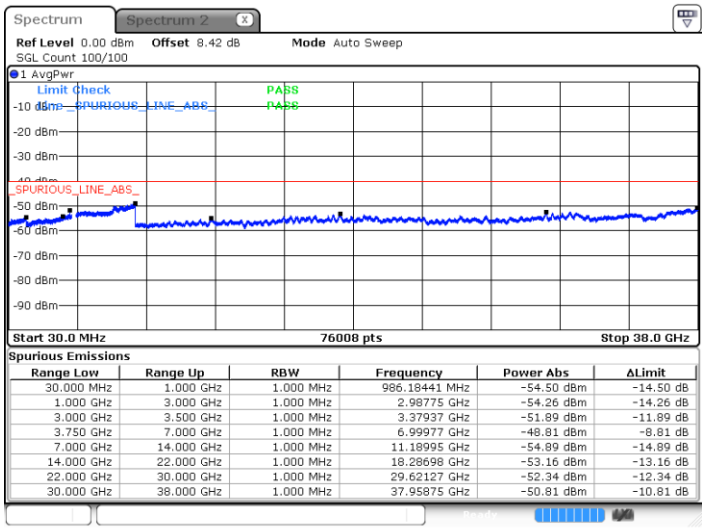



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 924.13543 MHz | -54.61 dBm | -14.61 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99775 GHz | -54.37 dBm | -14.37 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.44181 GHz | -53.49 dBm | -13.49 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.89346 GHz | -49.23 dBm | -9.23 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.19795 GHz | -55.05 dBm | -15.05 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.25598 GHz | -53.24 dBm | -13.24 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.61727 GHz | -52.29 dBm | -12.29 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.91176 GHz | -50.78 dBm | -10.78 dB |

Date: 8.SEP.2020 17:51:10

| LTE Band 48 / 5MHz |
|---|
| 64QAM |
| Lowest Channel / 1RB0 |

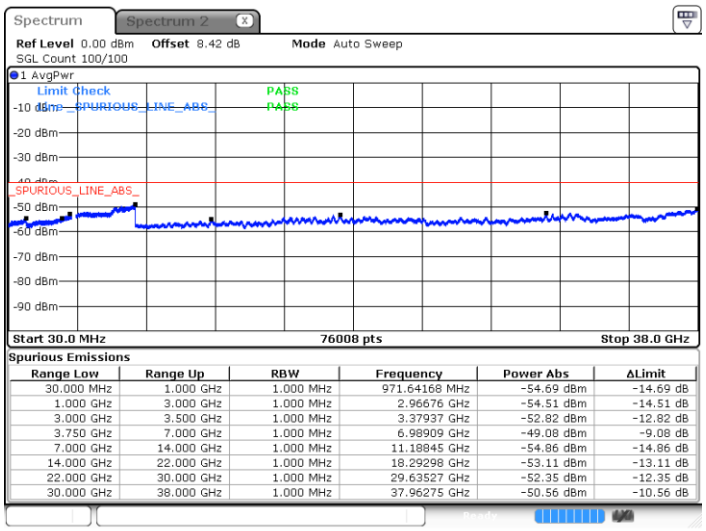



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 986.18441 MHz | -54.50 dBm | -14.50 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.98775 GHz | -54.26 dBm | -14.26 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -51.89 dBm | -11.89 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.99977 GHz | -48.81 dBm | -8.81 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.18995 GHz | -54.89 dBm | -14.89 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.28698 GHz | -53.16 dBm | -13.16 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.62127 GHz | -52.34 dBm | -12.34 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.95875 GHz | -50.81 dBm | -10.81 dB |

Date: 8.SEP.2020 16:27:18

| LTE Band 48 / 5MHz |
|---|
| 64QAM |
| Middle Channel / 1RB0 |

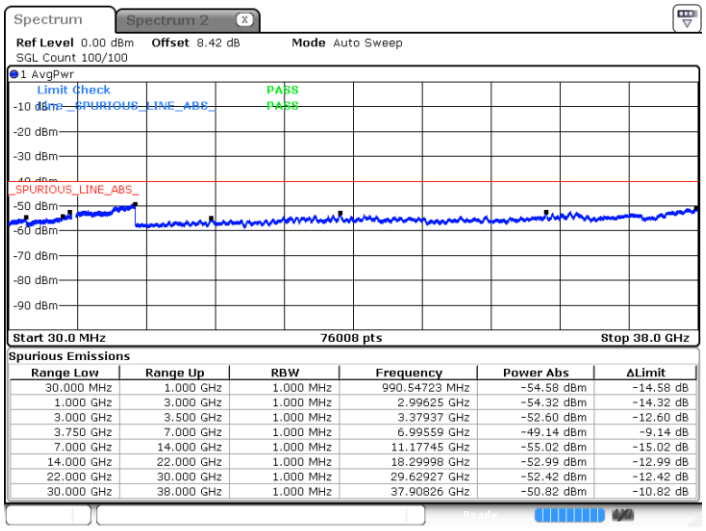



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 971.64168 MHz | -54.69 dBm | -14.69 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.96676 GHz | -54.51 dBm | -14.51 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -52.82 dBm | -12.82 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.98909 GHz | -49.08 dBm | -9.08 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.18845 GHz | -54.86 dBm | -14.86 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.29298 GHz | -53.11 dBm | -13.11 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.63527 GHz | -52.35 dBm | -12.35 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.96275 GHz | -50.56 dBm | -10.56 dB |

Date: 8.SEP.2020 16:28:42

| LTE Band 48 / 5MHz |
|---|
| 64QAM |
| Highest Channel / 1RB0 |

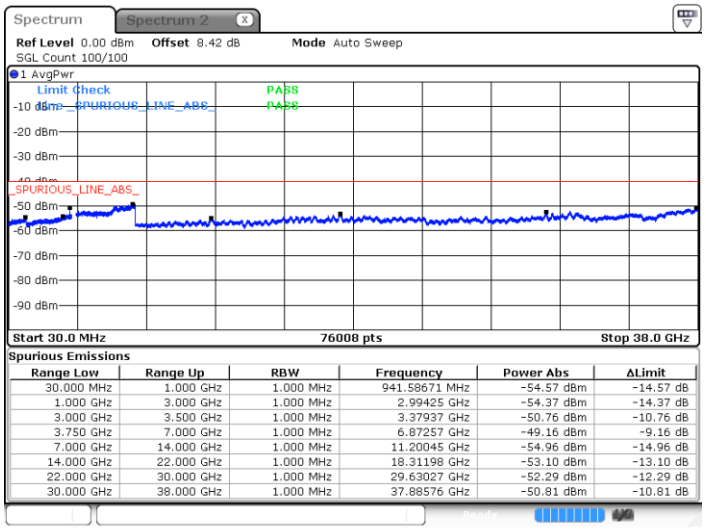



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 990.54723 MHz | -54.58 dBm | -14.58 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99625 GHz | -54.32 dBm | -14.32 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -52.60 dBm | -12.60 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.99559 GHz | -49.14 dBm | -9.14 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.17745 GHz | -55.02 dBm | -15.02 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.29998 GHz | -52.99 dBm | -12.99 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.62927 GHz | -52.42 dBm | -12.42 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.90826 GHz | -50.82 dBm | -10.82 dB |

Date: 8.SEP.2020 16:36:05

| LTE Band 48 / 10MHz |
|---|
| 64QAM |
| Lowest Channel / 1RB0 |

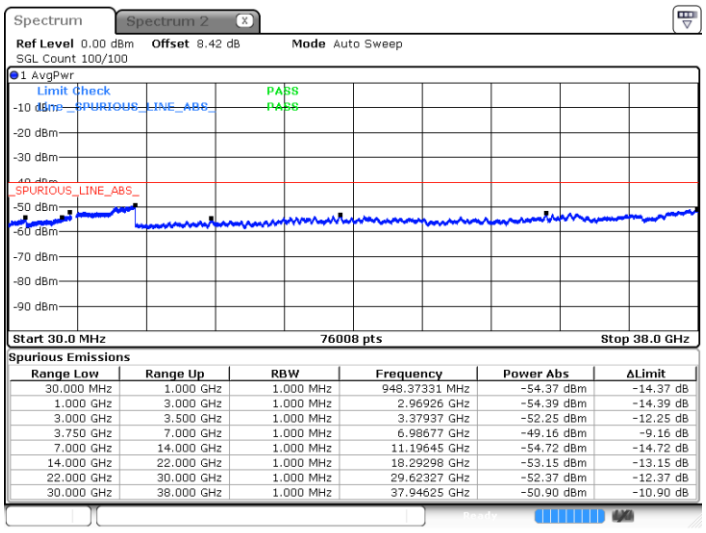



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 941.58671 MHz | -54.57 dBm | -14.57 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99425 GHz | -54.37 dBm | -14.37 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -50.76 dBm | -10.76 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.87257 GHz | -49.16 dBm | -9.16 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.20045 GHz | -54.96 dBm | -14.96 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.31198 GHz | -53.10 dBm | -13.10 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.63027 GHz | -52.29 dBm | -12.29 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.88576 GHz | -50.81 dBm | -10.81 dB |

Date: 8.SEP.2020 16:42:35

| LTE Band 48 / 10MHz |
|---|
| 64QAM |
| Middle Channel / 1RB0 |

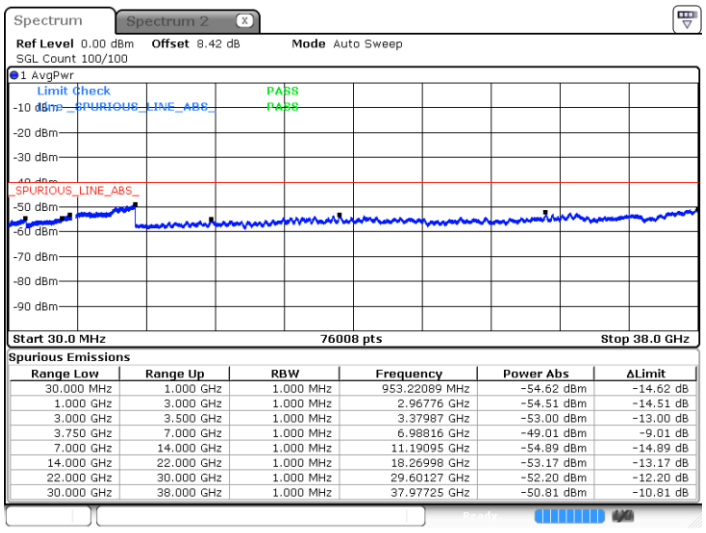



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 948.37331 MHz | -54.37 dBm | -14.37 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.96926 GHz | -54.39 dBm | -14.39 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -52.25 dBm | -12.25 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.98677 GHz | -49.16 dBm | -9.16 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.19645 GHz | -54.72 dBm | -14.72 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.29298 GHz | -53.15 dBm | -13.15 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.62327 GHz | -52.37 dBm | -12.37 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.94625 GHz | -50.90 dBm | -10.90 dB |

Date: 8.SEP.2020 16:50:02

| LTE Band 48 / 10MHz |
|---|
| 64QAM |
| Highest Channel / 1RB0 |

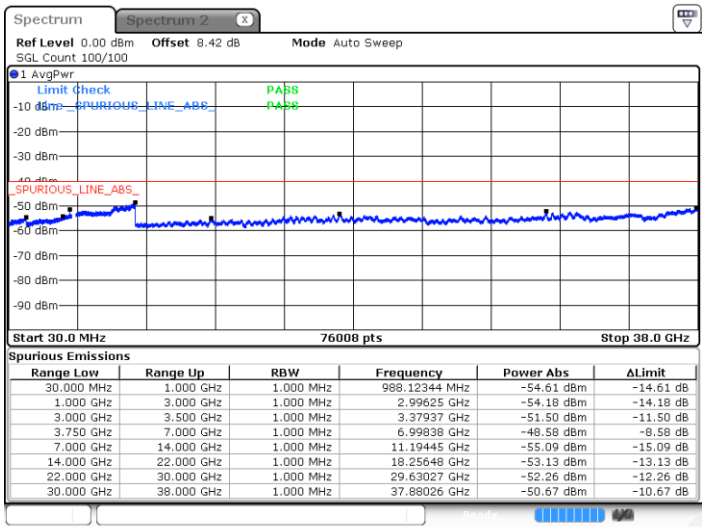



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 953.22089 MHz | -54.62 dBm | -14.62 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.96776 GHz | -54.51 dBm | -14.51 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37987 GHz | -53.00 dBm | -13.00 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.98816 GHz | -49.01 dBm | -9.01 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.19095 GHz | -54.89 dBm | -14.89 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.26998 GHz | -53.17 dBm | -13.17 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.60127 GHz | -52.20 dBm | -12.20 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.97725 GHz | -50.81 dBm | -10.81 dB |

Date: 8.SEP.2020 16:51:23

| LTE Band 48 / 15MHz |
|---|
| 64QAM |
| Lowest Channel / 1RB0 |

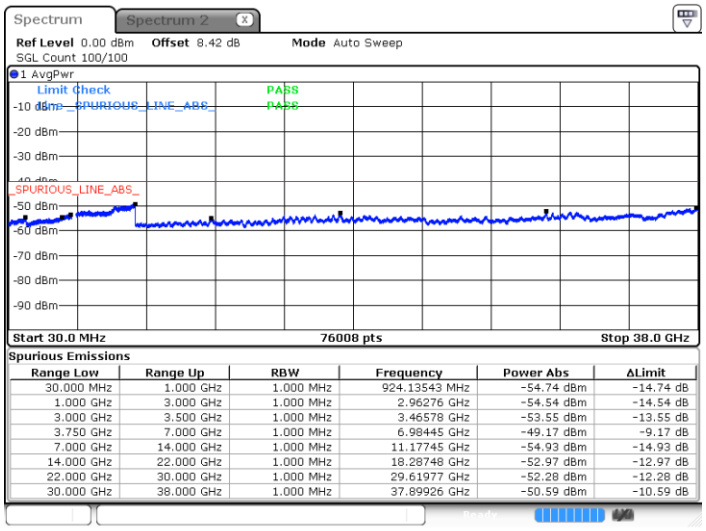



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 988.12344 MHz | -54.61 dBm | -14.61 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99625 GHz | -54.18 dBm | -14.18 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -51.50 dBm | -11.50 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.99838 GHz | -48.58 dBm | -8.58 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.19445 GHz | -55.09 dBm | -15.09 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.25648 GHz | -53.13 dBm | -13.13 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.63027 GHz | -52.26 dBm | -12.26 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.88026 GHz | -50.67 dBm | -10.67 dB |

Date: 8.SEP.2020 17:12:29

| LTE Band 48 / 15MHz |
|---|
| 64QAM |
| Middle Channel / 1RB0 |

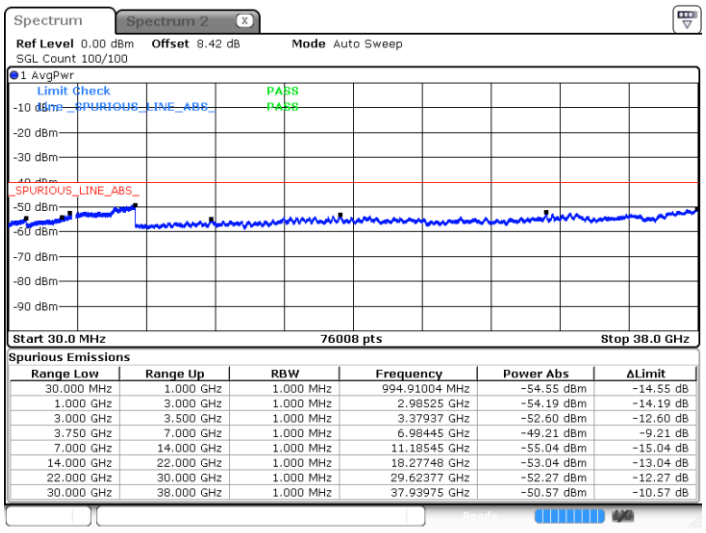



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 924.13543 MHz | -54.74 dBm | -14.74 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.96276 GHz | -54.54 dBm | -14.54 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.46578 GHz | -53.55 dBm | -13.55 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.98445 GHz | -49.17 dBm | -9.17 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.17745 GHz | -54.93 dBm | -14.93 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.28748 GHz | -52.97 dBm | -12.97 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.61977 GHz | -52.28 dBm | -12.28 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.89926 GHz | -50.59 dBm | -10.59 dB |

Date: 8.SEP.2020 17:14:37

| LTE Band 48 / 15MHz |
|---|
| 64QAM |
| Highest Channel / 1RB0 |

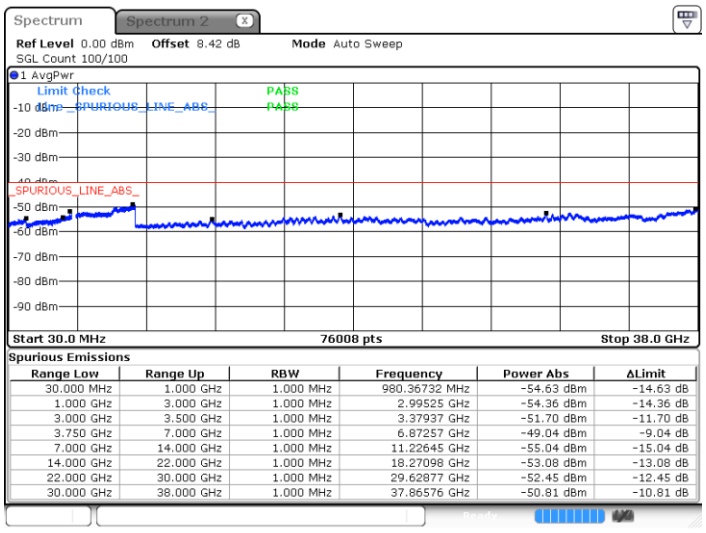



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 994.91004 MHz | -54.55 dBm | -14.55 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.98525 GHz | -54.19 dBm | -14.19 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -52.60 dBm | -12.60 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.98445 GHz | -49.21 dBm | -9.21 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.18545 GHz | -55.04 dBm | -15.04 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.27748 GHz | -53.04 dBm | -13.04 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.62377 GHz | -52.27 dBm | -12.27 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.93975 GHz | -50.57 dBm | -10.57 dB |

Date: 8.SEP.2020 17:38:42

| LTE Band 48 / 20MHz |
|---|
| 64QAM |
| Lowest Channel / 1RB0 |

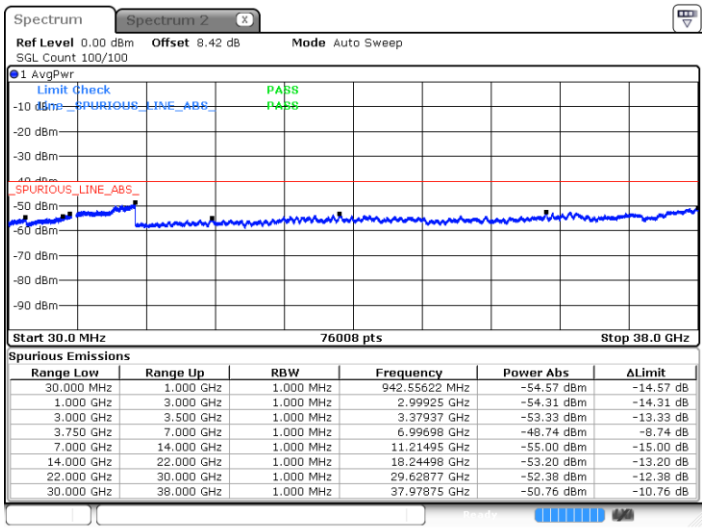



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 980.36732 MHz | -54.63 dBm | -14.63 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99525 GHz | -54.36 dBm | -14.36 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -51.70 dBm | -11.70 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.87257 GHz | -49.04 dBm | -9.04 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.22645 GHz | -55.04 dBm | -15.04 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.27098 GHz | -53.08 dBm | -13.08 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.62877 GHz | -52.45 dBm | -12.45 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.86576 GHz | -50.81 dBm | -10.81 dB |

Date: 8.SEP.2020 17:40:15

| LTE Band 48 / 20MHz |
|---|
| 64QAM |
| Middle Channel / 1RB0 |

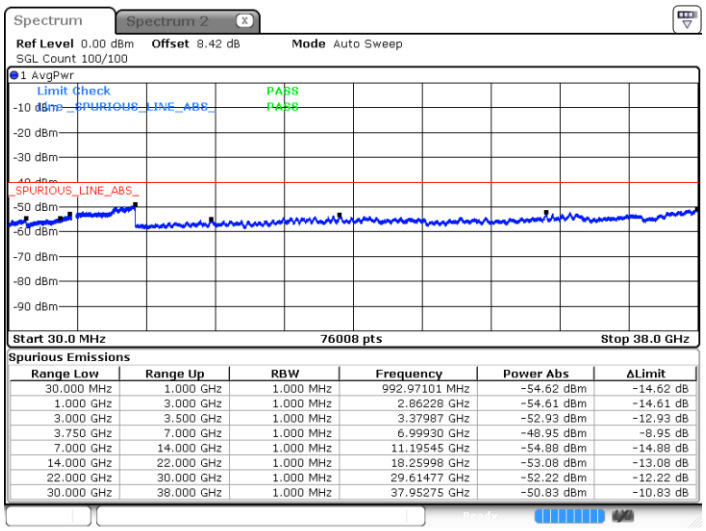



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 942.55622 MHz | -54.57 dBm | -14.57 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.99925 GHz | -54.31 dBm | -14.31 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37937 GHz | -53.33 dBm | -13.33 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.99698 GHz | -48.74 dBm | -8.74 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.21495 GHz | -55.00 dBm | -15.00 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.24498 GHz | -53.20 dBm | -13.20 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.62877 GHz | -52.38 dBm | -12.38 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.97875 GHz | -50.76 dBm | -10.76 dB |

Date: 8.SEP.2020 17:48:57

| LTE Band 48 / 20MHz |
|---|
| 64QAM |
| Highest Channel / 1RB0 |




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 992.97101 MHz | -54.62 dBm | -14.62 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 2.86228 GHz | -54.61 dBm | -14.61 dB |
| 3.000 GHz | 3.500 GHz | 1.000 MHz | 3.37987 GHz | -52.93 dBm | -12.93 dB |
| 3.750 GHz | 7.000 GHz | 1.000 MHz | 6.99930 GHz | -48.95 dBm | -8.95 dB |
| 7.000 GHz | 14.000 GHz | 1.000 MHz | 11.19545 GHz | -54.88 dBm | -14.88 dB |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 18.25998 GHz | -53.08 dBm | -13.08 dB |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.61477 GHz | -52.22 dBm | -12.22 dB |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.95275 GHz | -50.83 dBm | -10.83 dB |

Date: 8.SEP.2020 17:50:04

# Frequency Stability

| Test Conditions | | LTE Band 48 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0024 | PASS |
| 40 | Normal Voltage | 0.0014 | |
| 30 | Normal Voltage | 0.0032 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0025 | |
| 0 | Normal Voltage | 0.0018 | |
| -10 | Normal Voltage | 0.0025 | |
| -20 | Normal Voltage | 0.0013 | |
| -30 | Normal Voltage | 0.0018 | |
| 20 | Maximum Voltage | 0.0025 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0042 | |

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

| LTE Band 48 / 20MHz / QPSK | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 7200 | -55.95 | -40 | -15.95 | -67.41 | 2.84 | 14.30 | H |
| | 10800 | -49.46 | -40 | -9.46 | -59.40 | 3.49 | 13.43 | H |
| | 14400 | -53.28 | -40 | -13.28 | -63.52 | 3.85 | 14.09 | H |
| | 7200 | -61.09 | -40 | -21.09 | -72.55 | 2.84 | 14.30 | V |
| | 10800 | -50.07 | -40 | -10.07 | -60.01 | 3.49 | 13.43 | V |
| | 14400 | -54.63 | -40 | -14.63 | -64.87 | 3.85 | 14.09 | V |

Remark:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. Pre-scanned in three orthogonal panels, X, Y, Z for Antennas. The worst cases were recorded in this report.