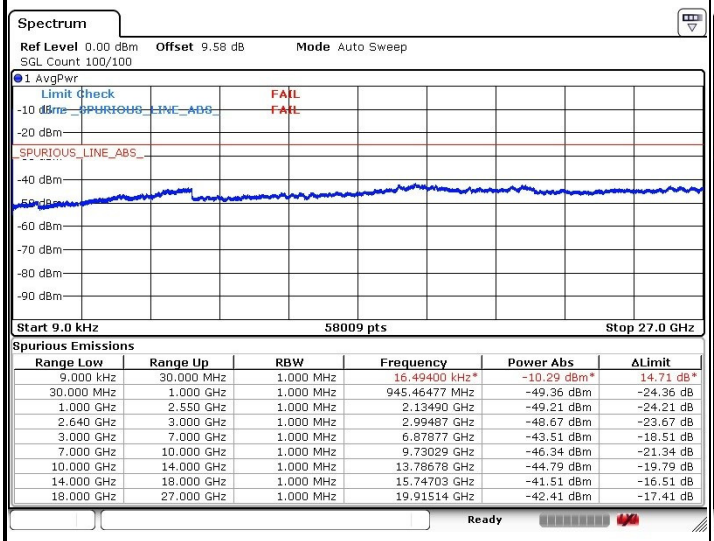
## LTE Band 38 / 5MHz

### Highest Channel / QPSK

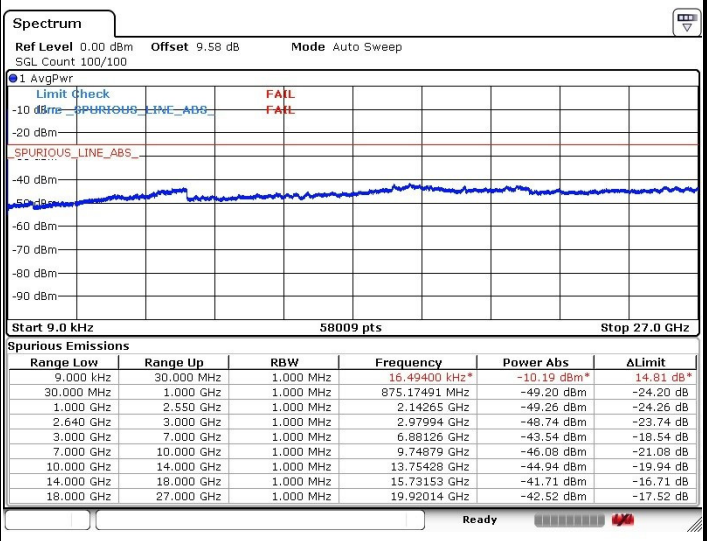



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 16.49400 kHz* | -10.29 dBm* | 14.71 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 945.46477 MHz | -49.36 dBm | -24.36 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.13490 GHz | -49.21 dBm | -24.21 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.99487 GHz | -48.67 dBm | -23.67 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.87877 GHz | -43.51 dBm | -18.51 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.73029 GHz | -46.34 dBm | -21.34 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.78678 GHz | -44.79 dBm | -19.79 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.74703 GHz | -41.51 dBm | -16.51 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.91514 GHz | -42.41 dBm | -17.41 dB |

Date: 11.MAR.2017 04:50:35

### Highest Channel / 16QAM



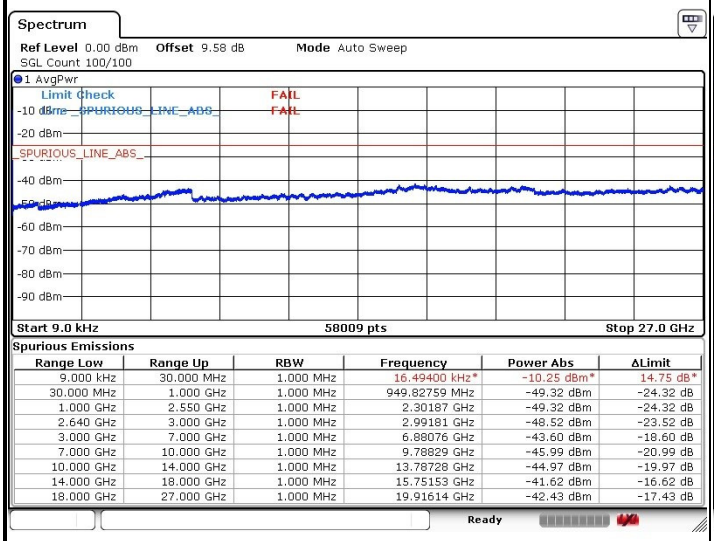

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 16.49400 kHz* | -10.19 dBm* | 14.81 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 875.17491 MHz | -49.20 dBm | -24.20 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.14265 GHz | -49.26 dBm | -24.26 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.97994 GHz | -48.74 dBm | -23.74 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.88126 GHz | -43.54 dBm | -18.54 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.74879 GHz | -46.08 dBm | -21.08 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.75428 GHz | -44.94 dBm | -19.94 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.73153 GHz | -41.71 dBm | -16.71 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.92014 GHz | -42.52 dBm | -17.52 dB |

Date: 11.MAR.2017 04:51:39

## LTE Band 38 / 10MHz

### Lowest Channel / QPSK

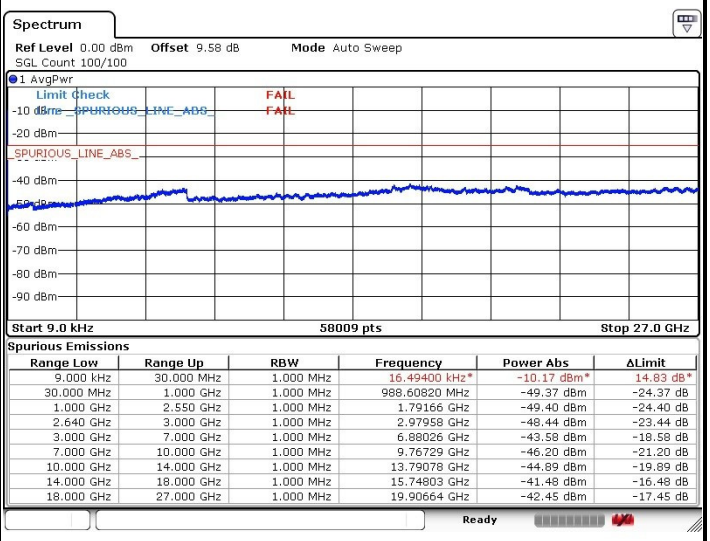



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 16.49400 kHz* | -10.25 dBm* | 14.75 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 949.82759 MHz | -49.32 dBm | -24.32 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.30187 GHz | -49.32 dBm | -24.32 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.99181 GHz | -48.52 dBm | -23.52 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.88076 GHz | -43.60 dBm | -18.60 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.78829 GHz | -45.99 dBm | -20.99 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.78728 GHz | -44.97 dBm | -19.97 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.75153 GHz | -41.62 dBm | -16.62 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.91614 GHz | -42.43 dBm | -17.43 dB |

Date: 11.MAR.2017 05:15:17

### Lowest Channel / 16QAM



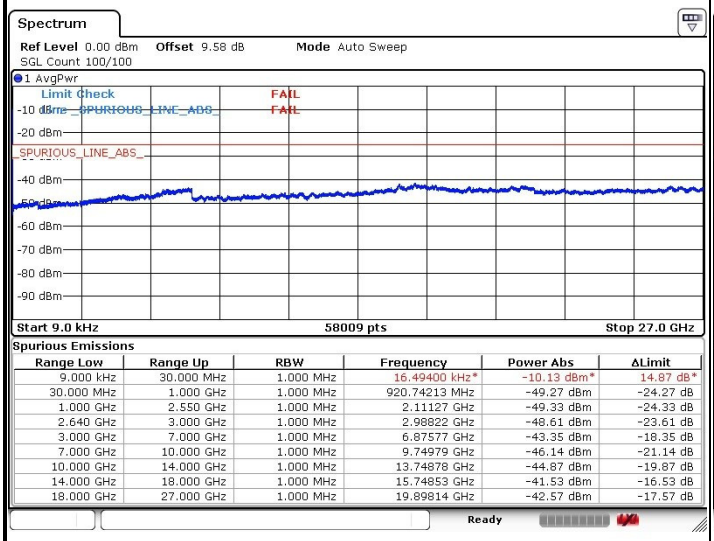

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 16.49400 kHz* | -10.17 dBm* | 14.83 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 988.60820 MHz | -49.37 dBm | -24.37 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 1.79166 GHz | -49.40 dBm | -24.40 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.97958 GHz | -48.44 dBm | -23.44 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.88026 GHz | -43.58 dBm | -18.58 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.76729 GHz | -46.20 dBm | -21.20 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.79078 GHz | -44.89 dBm | -19.89 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.74803 GHz | -41.48 dBm | -16.48 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.90664 GHz | -42.45 dBm | -17.45 dB |

Date: 11.MAR.2017 05:16:13

## LTE Band 38 / 10MHz

### Middle Channel / QPSK

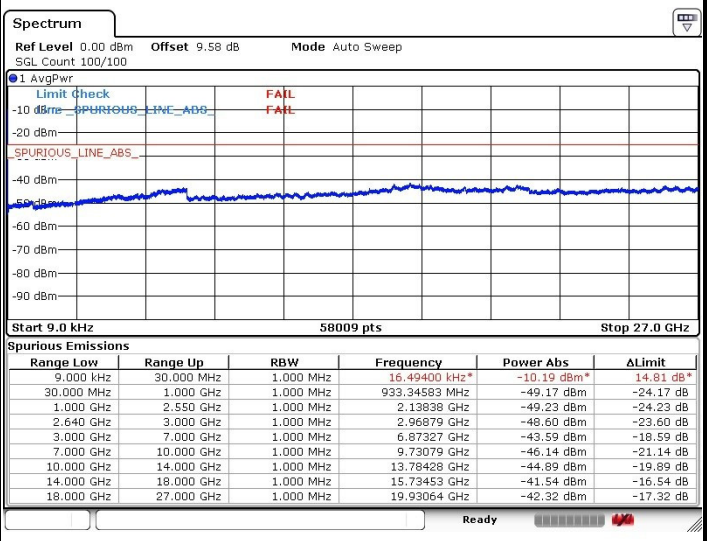



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 16.49400 kHz* | -10.13 dBm* | 14.87 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 920.74213 MHz | -49.27 dBm | -24.27 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.11127 GHz | -49.33 dBm | -24.33 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.98822 GHz | -48.61 dBm | -23.61 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.87577 GHz | -43.35 dBm | -18.35 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.74979 GHz | -46.14 dBm | -21.14 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.74878 GHz | -44.87 dBm | -19.87 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.74853 GHz | -41.53 dBm | -16.53 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.89814 GHz | -42.57 dBm | -17.57 dB |

Date: 11.MAR.2017 05:14:17

### Middle Channel / 16QAM

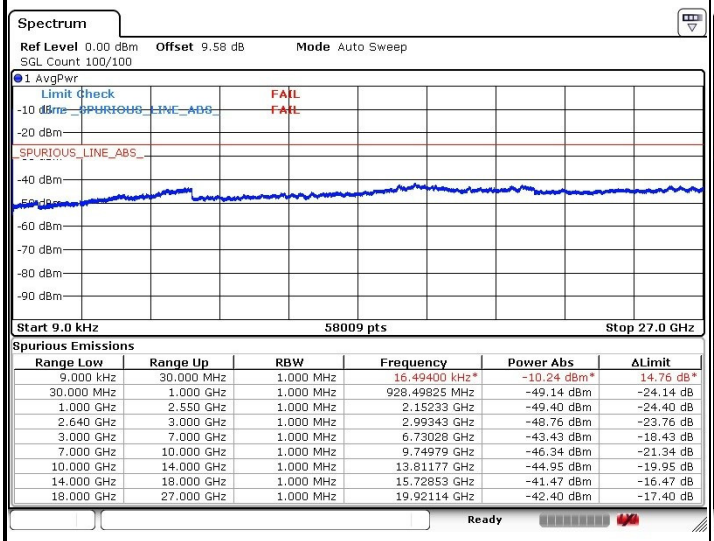



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 16.49400 kHz* | -10.19 dBm* | 14.81 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 933.34583 MHz | -49.17 dBm | -24.17 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.13838 GHz | -49.23 dBm | -24.23 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.96879 GHz | -48.60 dBm | -23.60 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.87327 GHz | -43.59 dBm | -18.59 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.73079 GHz | -46.14 dBm | -21.14 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.78428 GHz | -44.89 dBm | -19.89 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.73453 GHz | -41.54 dBm | -16.54 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.93064 GHz | -42.32 dBm | -17.32 dB |

Date: 11.MAR.2017 05:13:22

### Highest Channel / QPSK

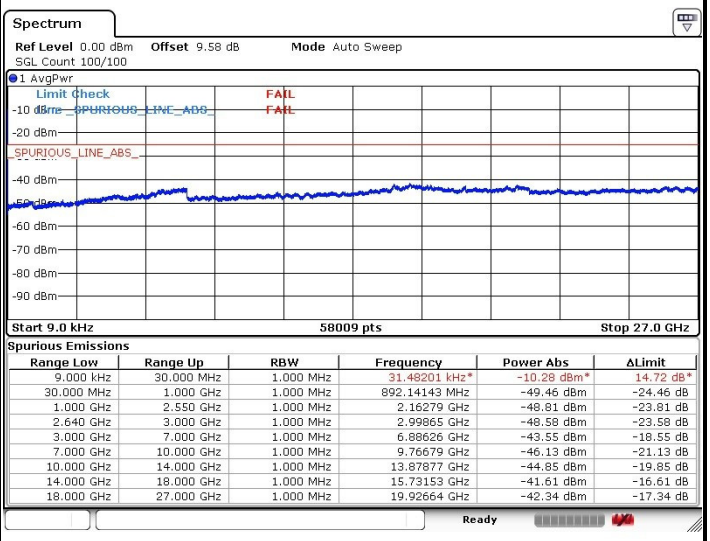



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 16.49400 kHz* | -10.24 dBm* | 14.76 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 928.49825 MHz | -49.14 dBm | -24.14 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.15233 GHz | -49.40 dBm | -24.40 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.99343 GHz | -48.76 dBm | -23.76 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.73028 GHz | -43.43 dBm | -18.43 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.74979 GHz | -46.34 dBm | -21.34 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.81177 GHz | -44.95 dBm | -19.95 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.72853 GHz | -41.47 dBm | -16.47 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.92114 GHz | -42.40 dBm | -17.40 dB |

Date: 11.MAR.2017 05:18:37

### Highest Channel / 16QAM



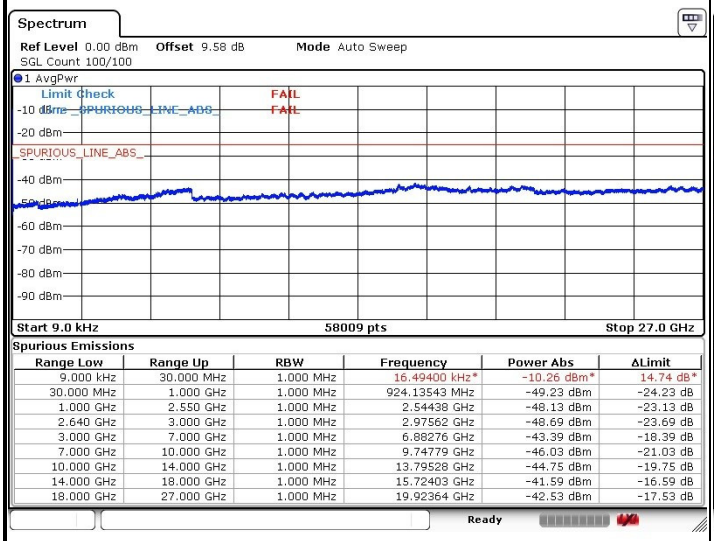

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 31.48201 kHz* | -10.28 dBm* | 14.72 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 892.14143 MHz | -49.46 dBm | -24.46 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.16279 GHz | -48.81 dBm | -23.81 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.99865 GHz | -48.58 dBm | -23.58 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.88626 GHz | -43.55 dBm | -18.55 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.76679 GHz | -46.13 dBm | -21.13 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.87877 GHz | -44.85 dBm | -19.85 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.73153 GHz | -41.61 dBm | -16.61 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.92664 GHz | -42.34 dBm | -17.34 dB |

Date: 11.MAR.2017 05:17:30

## LTE Band 38 / 15MHz

### Lowest Channel / QPSK

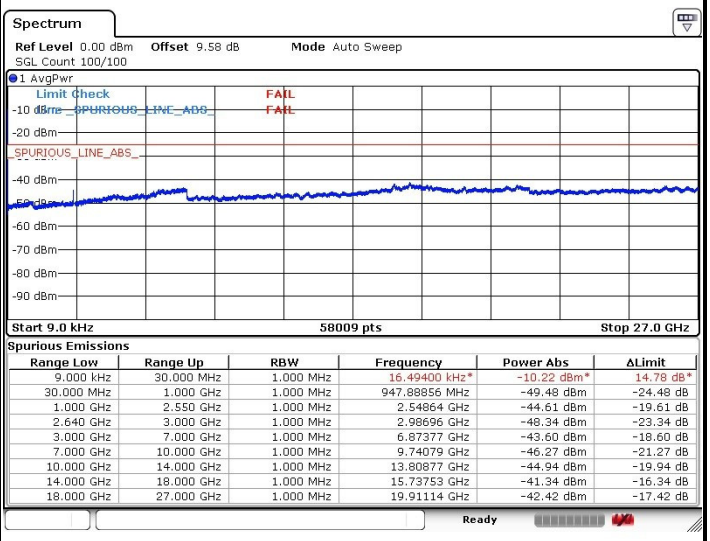



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 16.49400 kHz* | -10.26 dBm* | 14.74 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 924.13543 MHz | -49.23 dBm | -24.23 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.54438 GHz | -48.13 dBm | -23.13 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.97562 GHz | -48.69 dBm | -23.69 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.88276 GHz | -43.39 dBm | -18.39 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.74779 GHz | -46.03 dBm | -21.03 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.79528 GHz | -44.75 dBm | -19.75 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.72403 GHz | -41.59 dBm | -16.59 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.92354 GHz | -42.53 dBm | -17.53 dB |

Date: 11.MAR.2017 05:23:02

### Lowest Channel / 16QAM

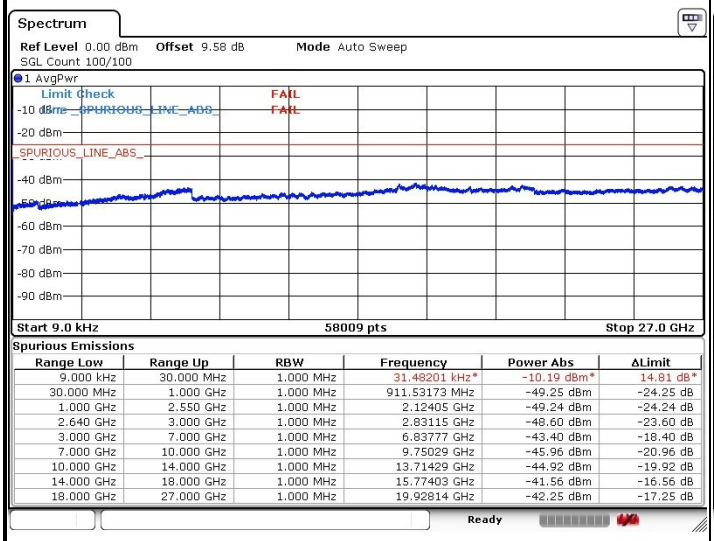



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 16.49400 kHz* | -10.22 dBm* | 14.78 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 947.88856 MHz | -49.48 dBm | -24.48 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.54864 GHz | -44.61 dBm | -19.61 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.98696 GHz | -48.34 dBm | -23.34 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.87377 GHz | -43.60 dBm | -18.60 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.74079 GHz | -46.27 dBm | -21.27 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.80877 GHz | -44.94 dBm | -19.94 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.73753 GHz | -41.34 dBm | -16.34 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.91114 GHz | -42.42 dBm | -17.42 dB |

Date: 11.MAR.2017 05:22:01

### Middle Channel / QPSK

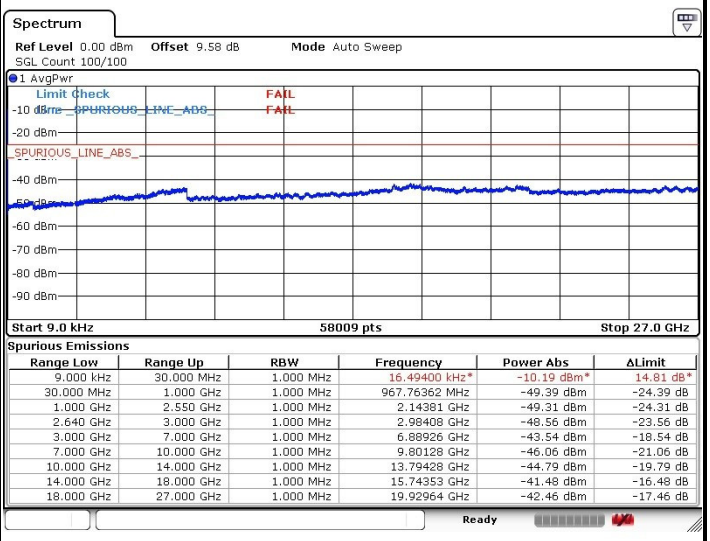



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 31.48201 kHz* | -10.19 dBm* | 14.81 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 911.53173 MHz | -49.25 dBm | -24.25 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.12405 GHz | -49.24 dBm | -24.24 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.83115 GHz | -48.60 dBm | -23.60 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.83777 GHz | -43.40 dBm | -18.40 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.75029 GHz | -45.96 dBm | -20.96 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.71429 GHz | -44.92 dBm | -19.92 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.77403 GHz | -41.56 dBm | -16.56 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.92814 GHz | -42.25 dBm | -17.25 dB |

Date: 11.MAR.2017 05:19:45

### Middle Channel / 16QAM



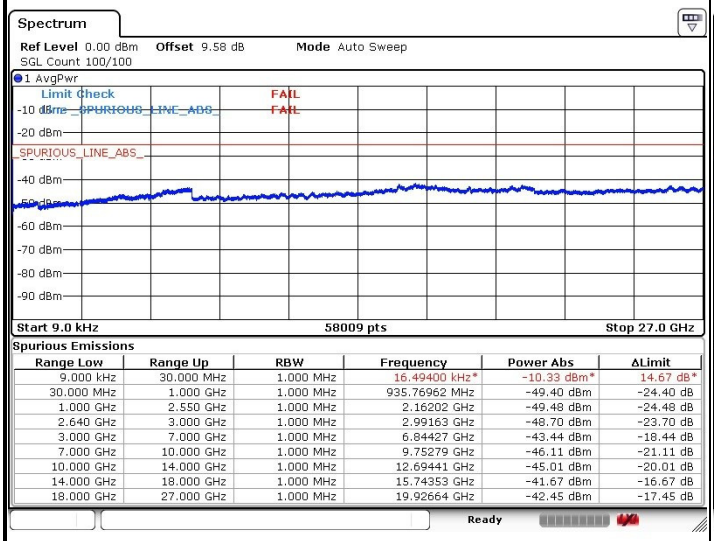

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 16.49400 kHz* | -10.19 dBm* | 14.81 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 967.76362 MHz | -49.39 dBm | -24.39 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.14381 GHz | -49.31 dBm | -24.31 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.98408 GHz | -48.56 dBm | -23.56 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.88926 GHz | -43.54 dBm | -18.54 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.80128 GHz | -46.06 dBm | -21.06 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.79428 GHz | -44.79 dBm | -19.79 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.74353 GHz | -41.48 dBm | -16.48 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.92964 GHz | -42.46 dBm | -17.46 dB |

Date: 11.MAR.2017 05:20:55

## LTE Band 38 / 15MHz

### Highest Channel / QPSK

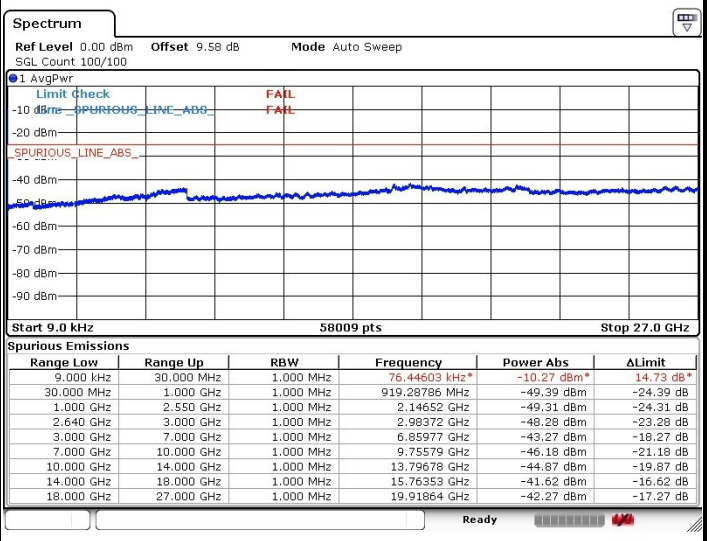



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 16.49400 kHz* | -10.33 dBm* | 14.67 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 935.76962 MHz | -49.40 dBm | -24.40 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.16202 GHz | -49.48 dBm | -24.48 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.99163 GHz | -48.70 dBm | -23.70 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.84427 GHz | -43.44 dBm | -18.44 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.75279 GHz | -46.11 dBm | -21.11 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 12.69441 GHz | -45.01 dBm | -20.01 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.74353 GHz | -41.67 dBm | -16.67 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.92664 GHz | -42.45 dBm | -17.45 dB |

Date: 11.MAR.2017 05:24:09

### Highest Channel / 16QAM



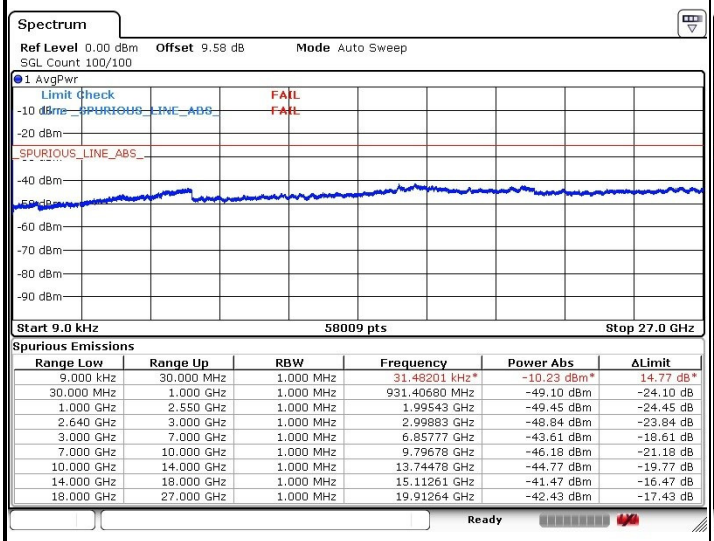

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 76.44603 kHz* | -10.27 dBm* | 14.73 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 919.28786 MHz | -49.39 dBm | -24.39 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.14652 GHz | -49.31 dBm | -24.31 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.98372 GHz | -48.28 dBm | -23.28 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.85977 GHz | -43.27 dBm | -18.27 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.75579 GHz | -46.18 dBm | -21.18 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.79678 GHz | -44.87 dBm | -19.87 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76353 GHz | -41.62 dBm | -16.62 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.91864 GHz | -42.27 dBm | -17.27 dB |

Date: 11.MAR.2017 05:25:06

## LTE Band 38 / 20MHz

### Lowest Channel / QPSK

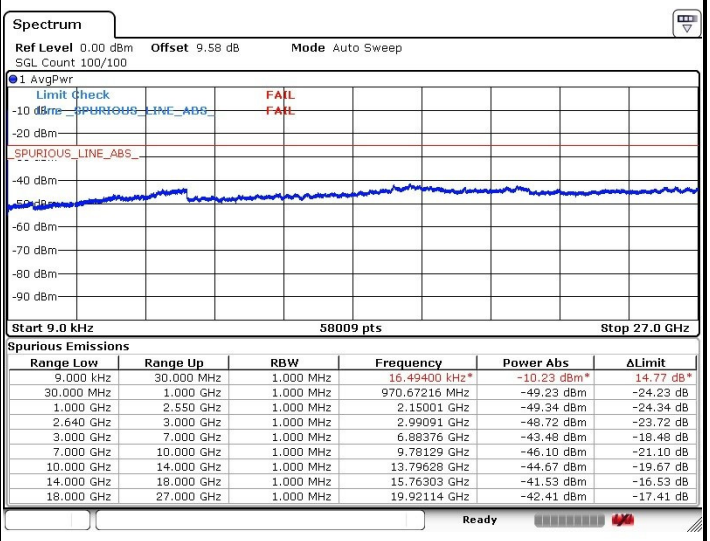



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 31.48201 kHz* | -10.23 dBm* | 14.77 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 931.40680 MHz | -49.10 dBm | -24.10 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 1.99543 GHz | -49.45 dBm | -24.45 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.99883 GHz | -48.84 dBm | -23.84 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.85777 GHz | -43.61 dBm | -18.61 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.79678 GHz | -46.18 dBm | -21.18 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.74478 GHz | -44.77 dBm | -19.77 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.11261 GHz | -41.47 dBm | -16.47 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.91264 GHz | -42.43 dBm | -17.43 dB |

Date: 11.MAR.2017 05:28:26

### Lowest Channel / 16QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 16.49400 kHz* | -10.23 dBm* | 14.77 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 970.67216 MHz | -49.23 dBm | -24.23 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.15001 GHz | -49.34 dBm | -24.34 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.99091 GHz | -48.72 dBm | -23.72 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.88376 GHz | -43.48 dBm | -18.48 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.78129 GHz | -46.10 dBm | -21.10 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.79628 GHz | -44.67 dBm | -19.67 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76303 GHz | -41.53 dBm | -16.53 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.92114 GHz | -42.41 dBm | -17.41 dB |

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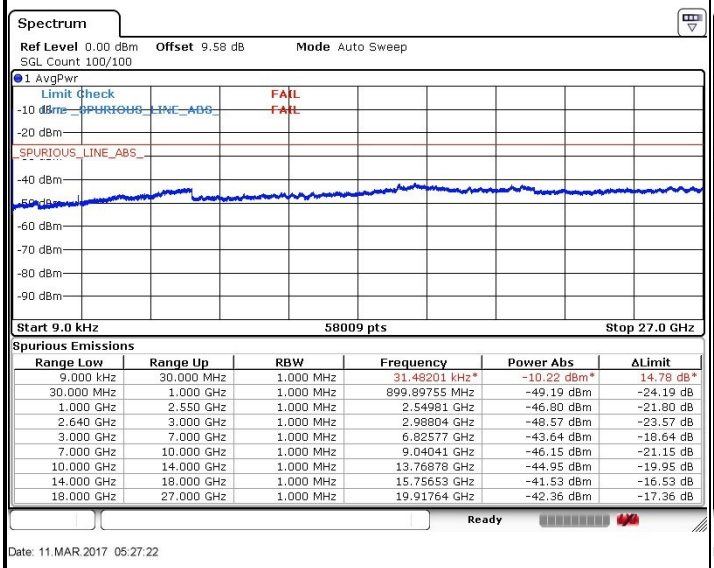
## LTE Band 38 / 20MHz

### Middle Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 31.48201 kHz* | -10.22 dBm* | 14.78 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 899.89755 MHz | -49.19 dBm | -24.19 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.54981 GHz | -46.80 dBm | -21.80 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.98804 GHz | -48.57 dBm | -23.57 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.82577 GHz | -43.64 dBm | -18.64 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.04041 GHz | -46.15 dBm | -21.15 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.76878 GHz | -44.95 dBm | -19.95 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.75653 GHz | -41.53 dBm | -16.53 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.91764 GHz | -42.36 dBm | -17.36 dB |

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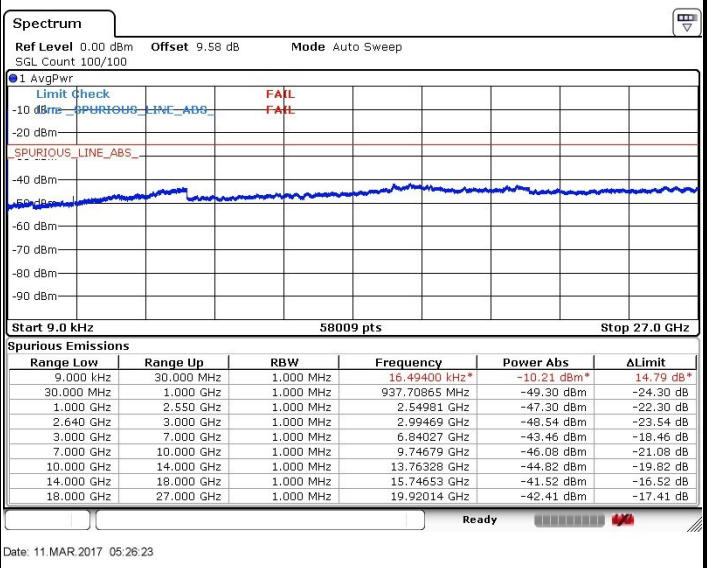
### Middle Channel / 16QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 16.49400 kHz* | -10.21 dBm* | 14.79 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 937.70865 MHz | -49.30 dBm | -24.30 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.54981 GHz | -47.30 dBm | -22.30 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.99469 GHz | -48.54 dBm | -23.54 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.84027 GHz | -43.46 dBm | -18.46 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.74679 GHz | -46.08 dBm | -21.08 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.76328 GHz | -44.82 dBm | -19.82 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.74653 GHz | -41.52 dBm | -16.52 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.92014 GHz | -42.41 dBm | -17.41 dB |

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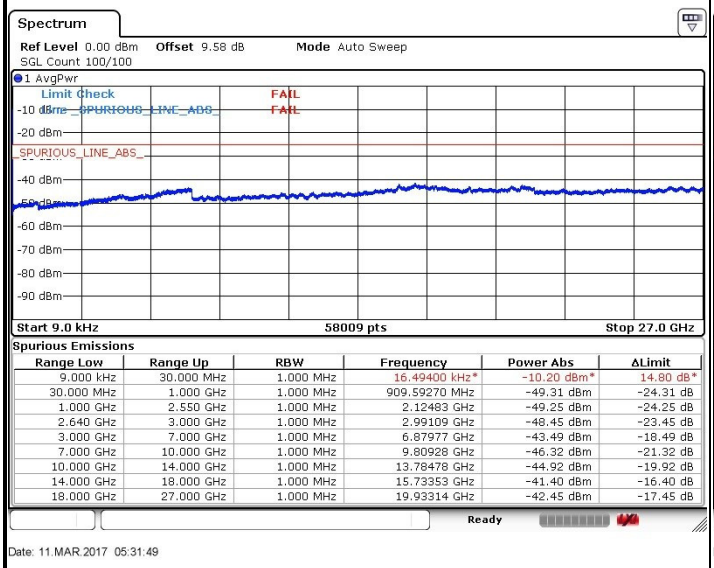
### Highest Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 16.49400 kHz* | -10.20 dBm* | 14.80 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 909.59270 MHz | -49.31 dBm | -24.31 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.12483 GHz | -49.25 dBm | -24.25 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.99109 GHz | -48.45 dBm | -23.45 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.87977 GHz | -43.49 dBm | -18.49 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.80928 GHz | -46.32 dBm | -21.32 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.78478 GHz | -44.92 dBm | -19.92 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.73353 GHz | -41.40 dBm | -16.40 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.93314 GHz | -42.45 dBm | -17.45 dB |

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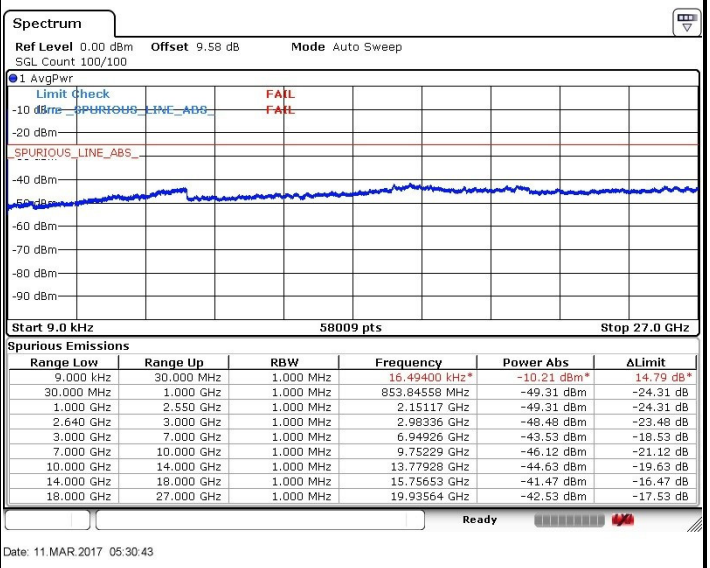
### Highest Channel / 16QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 9.000 kHz | 30.000 MHz | 1.000 MHz | 16.49400 kHz* | -10.21 dBm* | 14.79 dB* |
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 853.84558 MHz | -49.31 dBm | -24.31 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.15117 GHz | -49.31 dBm | -24.31 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.98336 GHz | -48.48 dBm | -23.48 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.94926 GHz | -43.53 dBm | -18.53 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.75229 GHz | -46.12 dBm | -21.12 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.77928 GHz | -44.63 dBm | -19.63 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.75653 GHz | -41.47 dBm | -16.47 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.93564 GHz | -42.53 dBm | -17.53 dB |

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# Frequency Stability

| Test Conditions | | LTE Band 5 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | 2.5ppm |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0013 | PASS |
| 40 | Normal Voltage | 0.0059 | |
| 30 | Normal Voltage | 0.0039 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0010 | |
| 0 | Normal Voltage | 0.0043 | |
| -10 | Normal Voltage | 0.0053 | |
| -20 | Normal Voltage | 0.0016 | |
| -30 | Normal Voltage | 0.0048 | |
| 20 | Maximum Voltage | 0.0007 | |
| 20 | Normal Voltage | 0.0012 | |
| 20 | Battery End Point | 0.0047 | |

**Note:** Normal Voltage =3.8 V.；Battery End Point (BEP) =3.5 V.；Maximum Voltage =4.4 V.

| Test Conditions | | LTE Band 7 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0007 | PASS |
| 40 | Normal Voltage | 0.0011 | |
| 30 | Normal Voltage | 0.0003 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0013 | |
| 0 | Normal Voltage | 0.0015 | |
| -10 | Normal Voltage | 0.0004 | |
| -20 | Normal Voltage | 0.0001 | |
| -30 | Normal Voltage | 0.0017 | |
| 20 | Maximum Voltage | 0.0002 | |
| 20 | Normal Voltage | 0.0005 | |
| 20 | Battery End Point | 0.0014 | |

**Note:**

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

| Test Conditions | | LTE Band 38 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0007 | PASS |
| 40 | Normal Voltage | 0.0004 | |
| 30 | Normal Voltage | 0.0013 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0017 | |
| 0 | Normal Voltage | 0.0010 | |
| -10 | Normal Voltage | 0.0002 | |
| -20 | Normal Voltage | 0.0003 | |
| -30 | Normal Voltage | 0.0014 | |
| 20 | Maximum Voltage | 0.0005 | |
| 20 | Normal Voltage | 0.0001 | |
| 20 | Battery End Point | 0.0008 | |

**Note:**

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

# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

| LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1672 | -63.82 | -13 | -50.82 | -66.42 | -66.14 | 1.33 | 5.80 | H |
| | 2508 | -40.28 | -13 | -27.28 | -52.63 | -43.45 | 1.58 | 6.90 | H |
| | 3345 | -63.13 | -13 | -50.13 | -72.34 | -66.63 | 1.85 | 7.50 | H |
| | 4179 | -61.23 | -13 | -48.23 | -71.15 | -64.27 | 2.11 | 7.30 | H |
| | 1672 | -67.64 | -13 | -54.64 | -69.51 | -69.96 | 1.33 | 5.80 | V |
| | 2508 | -47.24 | -13 | -34.24 | -57.58 | -50.41 | 1.58 | 6.90 | V |
| | 3345 | -66.09 | -13 | -53.09 | -75.11 | -69.59 | 1.85 | 7.50 | V |
| | 4179 | -64.76 | -13 | -51.76 | -73.29 | -67.80 | 2.11 | 7.30 | V |

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

| LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1670 | -64.89 | -13 | -51.89 | -67.49 | -67.21 | 1.33 | 5.80 | H |
| | 2506 | -41.52 | -13 | -28.52 | -53.72 | -44.69 | 1.58 | 6.90 | H |
| | 3342 | -63.39 | -13 | -50.39 | -72.60 | -66.89 | 1.85 | 7.50 | H |
| | 4176 | -59.94 | -13 | -46.94 | -69.86 | -62.98 | 2.11 | 7.30 | H |
| | 1670 | -67.03 | -13 | -54.03 | -68.90 | -69.35 | 1.33 | 5.80 | V |
| | 2506 | -48.57 | -13 | -35.57 | -58.47 | -51.74 | 1.58 | 6.90 | V |
| | 3342 | -66.51 | -13 | -53.51 | -75.53 | -70.01 | 1.85 | 7.50 | V |
| | 4176 | -64.48 | -13 | -51.48 | -73.01 | -67.52 | 2.11 | 7.30 | V |

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

| LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1668 | -65.44 | -13 | -52.44 | -68.04 | -67.76 | 1.33 | 5.80 | H |
| | 2502 | -39.80 | -13 | -26.80 | -52.19 | -42.97 | 1.58 | 6.90 | H |
| | 3336 | -60.56 | -13 | -47.56 | -69.77 | -64.06 | 1.85 | 7.50 | H |
| | 4170 | -60.12 | -13 | -47.12 | -70.04 | -63.16 | 2.11 | 7.30 | H |
| | 1668 | -67.48 | -13 | -54.48 | -69.35 | -69.80 | 1.33 | 5.80 | V |
| | 2502 | -48.61 | -13 | -35.61 | -58.49 | -51.78 | 1.58 | 6.90 | V |
| | 3336 | -65.00 | -13 | -52.00 | -74.02 | -68.50 | 1.85 | 7.50 | V |
| | 4172 | -66.04 | -13 | -53.04 | -74.57 | -69.08 | 2.11 | 7.30 | V |

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

| LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1664 | -66.50 | -13 | -53.50 | -69.10 | -68.82 | 1.33 | 5.80 | H |
| | 2496 | -39.77 | -13 | -26.77 | -52.16 | -42.94 | 1.58 | 6.90 | H |
| | 3327 | -61.27 | -13 | -48.27 | -70.48 | -64.77 | 1.85 | 7.50 | H |
| | 4161 | -61.54 | -13 | -48.54 | -71.46 | -64.58 | 2.11 | 7.30 | H |
| | 1664 | -68.05 | -13 | -55.05 | -69.92 | -70.37 | 1.33 | 5.80 | V |
| | 2496 | -46.03 | -13 | -33.03 | -56.72 | -49.20 | 1.58 | 6.90 | V |
| | 3327 | -66.09 | -13 | -53.09 | -75.11 | -69.59 | 1.85 | 7.50 | V |
| | 4160 | -64.88 | -13 | -51.88 | -73.41 | -67.92 | 2.11 | 7.30 | V |

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

| LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5064 | -58.42 | -25 | -33.42 | -67.64 | -64.98 | 2.41 | 8.97 | H |
| | 7596 | -55.74 | -25 | -30.74 | -69.44 | -64.74 | 2.86 | 11.86 | H |
| | 10134 | -57.35 | -25 | -32.35 | -75.70 | -66.25 | 3.21 | 12.11 | H |
| | 5064 | -59.32 | -25 | -34.32 | -68.03 | -65.88 | 2.41 | 8.97 | V |
| | 7600 | -55.59 | -25 | -30.59 | -70.22 | -64.59 | 2.86 | 11.86 | V |
| | 10134 | -56.59 | -25 | -31.59 | -75.99 | -65.49 | 3.21 | 12.11 | V |

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

| LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5060 | -58.96 | -25 | -33.96 | -68.18 | -65.52 | 2.41 | 8.97 | H |
| | 7592 | -50.47 | -25 | -25.47 | -64.17 | -59.47 | 2.86 | 11.86 | H |
| | 10125 | -57.30 | -25 | -32.30 | -75.65 | -66.20 | 3.21 | 12.11 | H |
| | 5060 | -59.37 | -25 | -34.37 | -68.08 | -65.93 | 2.41 | 8.97 | V |
| | 7592 | -52.03 | -25 | -27.03 | -66.66 | -61.03 | 2.86 | 11.86 | V |
| | 10125 | -56.08 | -25 | -31.08 | -75.48 | -64.98 | 3.21 | 12.11 | V |

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

| LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5056 | -57.98 | -25 | -32.98 | -67.20 | -64.54 | 2.41 | 8.97 | H |
| | 7584 | -51.88 | -25 | -26.88 | -65.58 | -60.88 | 2.86 | 11.86 | H |
| | 10116 | -57.05 | -25 | -32.05 | -75.40 | -65.95 | 3.21 | 12.11 | H |
| | 5056 | -59.71 | -25 | -34.71 | -68.42 | -66.27 | 2.41 | 8.97 | V |
| | 7584 | -54.20 | -25 | -29.20 | -68.83 | -63.20 | 2.86 | 11.86 | V |
| | 10116 | -56.17 | -25 | -31.17 | -75.57 | -65.07 | 3.21 | 12.11 | V |

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

| LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5052 | -59.76 | -25 | -34.76 | -68.98 | -66.32 | 2.41 | 8.97 | H |
| | 7576 | -52.69 | -25 | -27.69 | -66.39 | -61.69 | 2.86 | 11.86 | H |
| | 10107 | -56.88 | -25 | -31.88 | -75.23 | -65.78 | 3.21 | 12.11 | H |
| | 5052 | -59.42 | -25 | -34.42 | -68.13 | -65.98 | 2.41 | 8.97 | V |
| | 7576 | -53.75 | -25 | -28.75 | -68.38 | -62.75 | 2.86 | 11.86 | V |
| | 10107 | -56.08 | -25 | -31.08 | -75.48 | -64.98 | 3.21 | 12.11 | V |

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

| LTE Band 38 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5184 | -61.54 | -25 | -36.54 | -70.76 | -68.10 | 2.41 | 8.97 | H |
| | 7780 | -55.95 | -25 | -30.95 | -69.65 | -64.95 | 2.86 | 11.86 | H |
| | 10368 | -57.27 | -25 | -32.27 | -75.62 | -66.17 | 3.21 | 12.11 | H |
| | 5184 | -60.30 | -25 | -35.30 | -69.01 | -66.86 | 2.41 | 8.97 | V |
| | 7778 | -59.94 | -25 | -34.94 | -74.57 | -68.94 | 2.86 | 11.86 | V |
| | 10368 | -55.60 | -25 | -30.60 | -75 | -64.50 | 3.21 | 12.11 | V |

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

| LTE Band 38 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5180 | -60.83 | -25 | -35.83 | -70.05 | -67.39 | 2.41 | 8.97 | H |
| | 7772 | -55.91 | -25 | -30.91 | -69.61 | -64.91 | 2.86 | 11.86 | H |
| | 10359 | -56.74 | -25 | -31.74 | -75.09 | -65.64 | 3.21 | 12.11 | H |
| | 5180 | -60.17 | -25 | -35.17 | -68.88 | -66.73 | 2.41 | 8.97 | V |
| | 7772 | -57.89 | -25 | -32.89 | -72.52 | -66.89 | 2.86 | 11.86 | V |
| | 10359 | -56.32 | -25 | -31.32 | -75.72 | -65.22 | 3.21 | 12.11 | V |

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

| LTE Band 38 / 15MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5176 | -59.21 | -25 | -34.21 | -68.43 | -65.77 | 2.41 | 8.97 | H |
| | 7764 | -55.24 | -25 | -30.24 | -68.94 | -64.24 | 2.86 | 11.86 | H |
| | 10350 | -57.01 | -25 | -32.01 | -75.36 | -65.91 | 3.21 | 12.11 | H |
| | 5176 | -58.94 | -25 | -33.94 | -67.65 | -65.50 | 2.41 | 8.97 | V |
| | 7765 | -57.73 | -25 | -32.73 | -72.36 | -66.73 | 2.86 | 11.86 | V |
| | 10350 | -56.13 | -25 | -31.13 | -75.53 | -65.03 | 3.21 | 12.11 | V |

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

| LTE Band 38 / 20MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5172 | -59.40 | -25 | -34.40 | -68.62 | -65.96 | 2.41 | 8.97 | H |
| | 7756 | -56.72 | -25 | -31.72 | -70.42 | -65.72 | 2.86 | 11.86 | H |
| | 10341 | -56.72 | -25 | -31.72 | -75.07 | -65.62 | 3.21 | 12.11 | H |
| | 5172 | -59.61 | -25 | -34.61 | -68.32 | -66.17 | 2.41 | 8.97 | V |
| | 7758 | -58.69 | -25 | -33.69 | -73.32 | -67.69 | 2.86 | 11.86 | V |
| | 10341 | -56.52 | -25 | -31.52 | -75.92 | -65.42 | 3.21 | 12.11 | V |

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