## LTE Band 5 / 3MHz / 16QAM

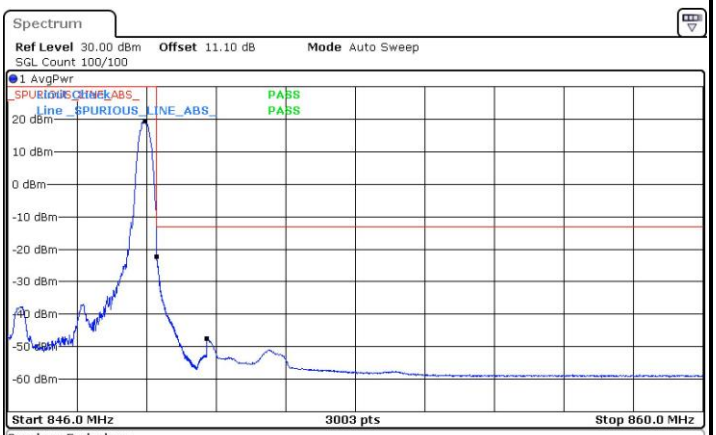
### Lowest Band Edge / 1 RB

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 815.000 MHz | 823.000 MHz | 100.000 kHz | 822.97203 MHz | -41.77 dBm | -28.77 dB |
| 823.000 MHz | 824.000 MHz | 30.000 kHz | 823.99950 MHz | -21.18 dBm | -8.18 dB |
| 824.000 MHz | 827.000 MHz | 100.000 kHz | 824.22328 MHz | 20.25 dBm | -9.75 dB |

Date: 21.SEP.2018 00:20:51

### Highest Band Edge /1 RB

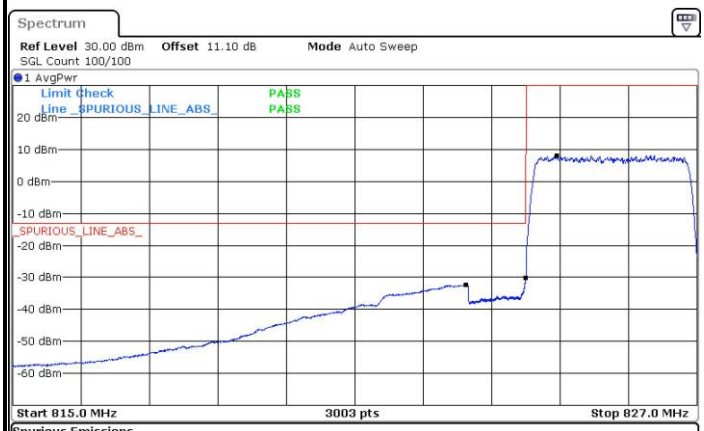



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 846.000 MHz | 849.000 MHz | 100.000 kHz | 848.77373 MHz | 19.42 dBm | -10.58 dB |
| 849.000 MHz | 850.000 MHz | 30.000 kHz | 849.00150 MHz | -22.35 dBm | -9.35 dB |
| 850.000 MHz | 860.000 MHz | 100.000 kHz | 850.00500 MHz | -47.52 dBm | -34.52 dB |

Date: 21.SEP.2018 00:35:06

### Lowest Band Edge / Full RB

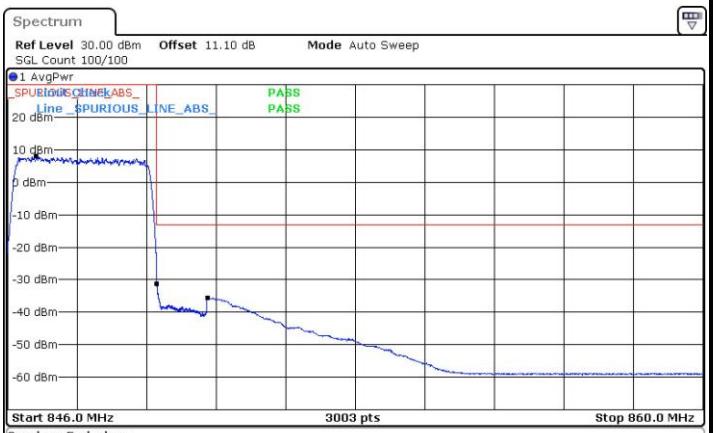



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 815.000 MHz | 823.000 MHz | 100.000 kHz | 822.94006 MHz | -32.44 dBm | -19.44 dB |
| 823.000 MHz | 824.000 MHz | 30.000 kHz | 823.99850 MHz | -30.22 dBm | -17.22 dB |
| 824.000 MHz | 827.000 MHz | 100.000 kHz | 824.54096 MHz | 8.13 dBm | -21.87 dB |

Date: 21.SEP.2018 00:24:12

### Highest Band Edge / Full RB



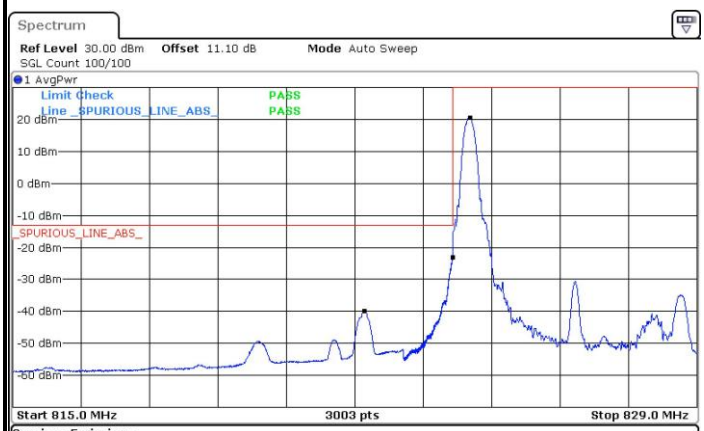

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 846.000 MHz | 849.000 MHz | 100.000 kHz | 846.57393 MHz | 7.98 dBm | -22.02 dB |
| 849.000 MHz | 850.000 MHz | 30.000 kHz | 849.00050 MHz | -31.36 dBm | -18.36 dB |
| 850.000 MHz | 860.000 MHz | 100.000 kHz | 850.01499 MHz | -35.46 dBm | -22.46 dB |

Date: 21.SEP.2018 00:38:27

## LTE Band 5 / 5MHz / QPSK

### Lowest Band Edge / 1 RB

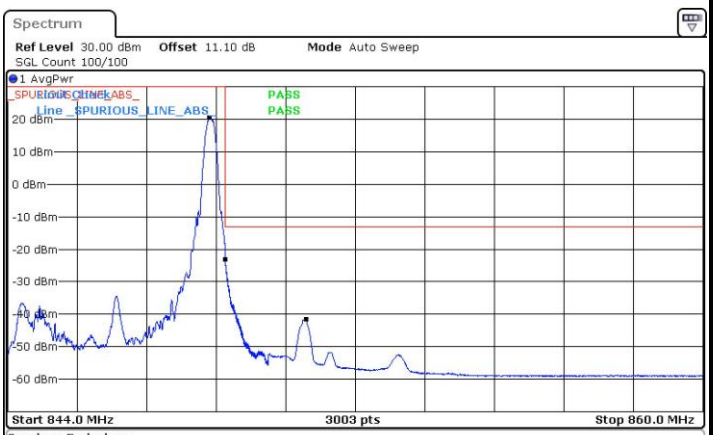



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 815.000 MHz | 823.000 MHz | 100.000 kHz | 822.19680 MHz | -39.98 dBm | -26.98 dB |
| 823.000 MHz | 824.000 MHz | 50.000 kHz | 823.99750 MHz | -23.00 dBm | -10.00 dB |
| 824.000 MHz | 829.000 MHz | 100.000 kHz | 824.35215 MHz | 20.47 dBm | -9.53 dB |

Date: 21.SEP.2018 00:42:55

### Highest Band Edge / 1 RB

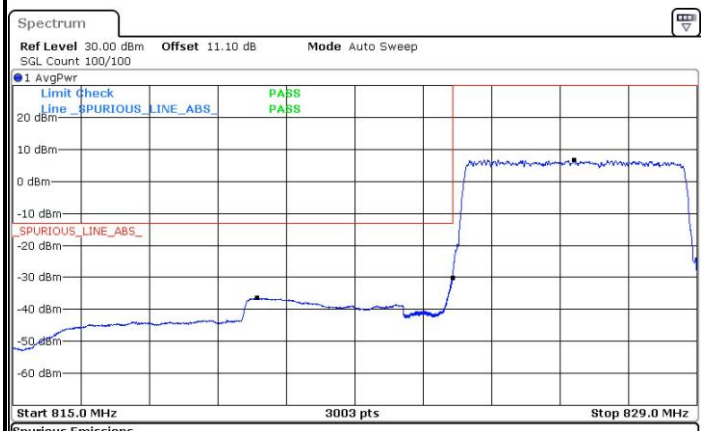



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 844.000 MHz | 849.000 MHz | 100.000 kHz | 848.64286 MHz | 20.38 dBm | -9.62 dB |
| 849.000 MHz | 850.000 MHz | 50.000 kHz | 849.00050 MHz | -23.08 dBm | -10.08 dB |
| 850.000 MHz | 860.000 MHz | 100.000 kHz | 850.86414 MHz | -41.65 dBm | -28.65 dB |

Date: 21.SEP.2018 01:09:58

### Lowest Band Edge / Full RB

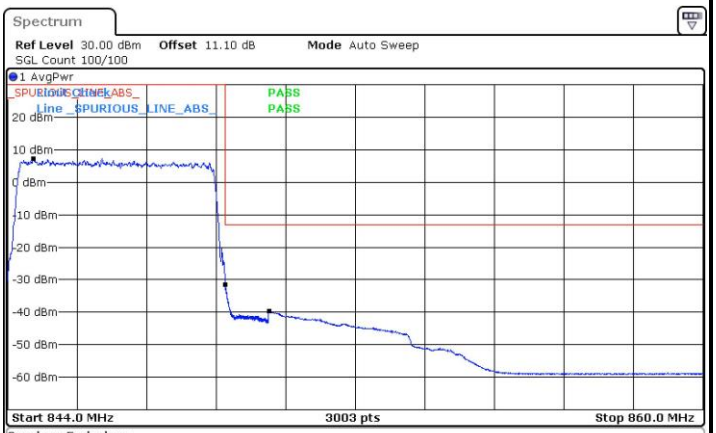



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 815.000 MHz | 823.000 MHz | 100.000 kHz | 819.99900 MHz | -36.53 dBm | -23.53 dB |
| 823.000 MHz | 824.000 MHz | 50.000 kHz | 823.99950 MHz | -30.27 dBm | -17.27 dB |
| 824.000 MHz | 829.000 MHz | 100.000 kHz | 826.48002 MHz | 6.82 dBm | -23.18 dB |

Date: 21.SEP.2018 00:46:18

### Highest Band Edge / Full RB



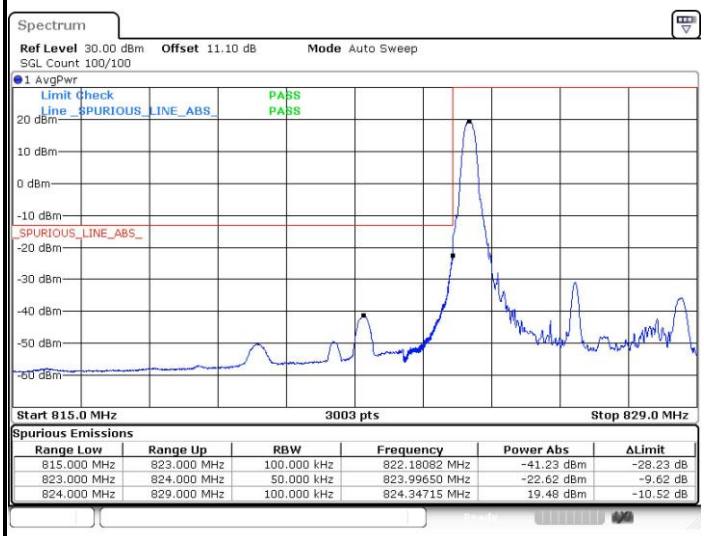

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 844.000 MHz | 849.000 MHz | 100.000 kHz | 844.59690 MHz | 7.22 dBm | -22.78 dB |
| 849.000 MHz | 850.000 MHz | 50.000 kHz | 849.00450 MHz | -31.52 dBm | -18.52 dB |
| 850.000 MHz | 860.000 MHz | 100.000 kHz | 850.01499 MHz | -39.74 dBm | -26.74 dB |

Date: 21.SEP.2018 01:13:18

## LTE Band 5 / 5MHz / 16QAM

### Lowest Band Edge / 1RB

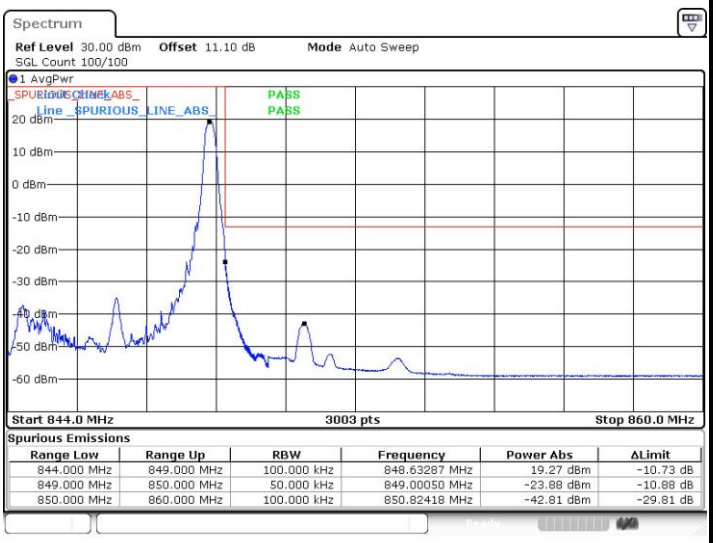



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 815.000 MHz | 823.000 MHz | 100.000 kHz | 822.18082 MHz | -41.23 dBm | -28.23 dB |
| 823.000 MHz | 824.000 MHz | 50.000 kHz | 823.99650 MHz | -22.62 dBm | -9.62 dB |
| 824.000 MHz | 829.000 MHz | 100.000 kHz | 824.34715 MHz | 19.48 dBm | -10.52 dB |

Date: 21.SEP.2018 00:44:37

### Highest Band Edge / 1 RB

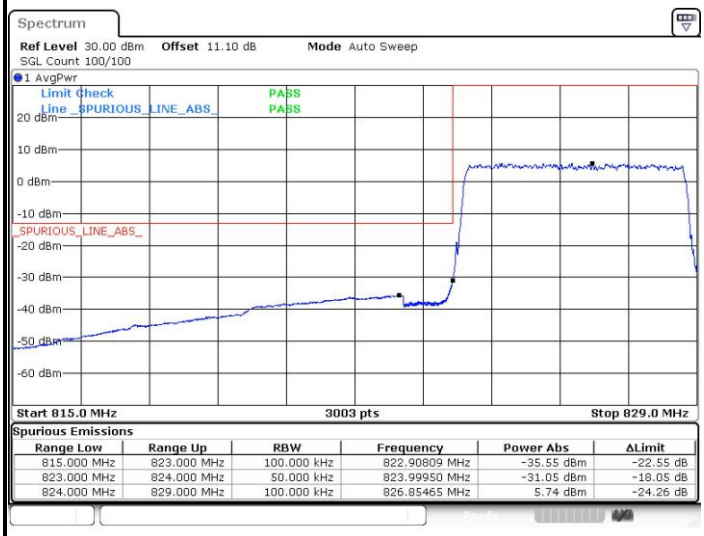



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 844.000 MHz | 849.000 MHz | 100.000 kHz | 848.63287 MHz | 19.27 dBm | -10.73 dB |
| 849.000 MHz | 850.000 MHz | 50.000 kHz | 849.00050 MHz | -23.88 dBm | -10.88 dB |
| 850.000 MHz | 860.000 MHz | 100.000 kHz | 850.82418 MHz | -42.81 dBm | -29.81 dB |

Date: 21.SEP.2018 01:11:38

### Lowest Band Edge / Full RB

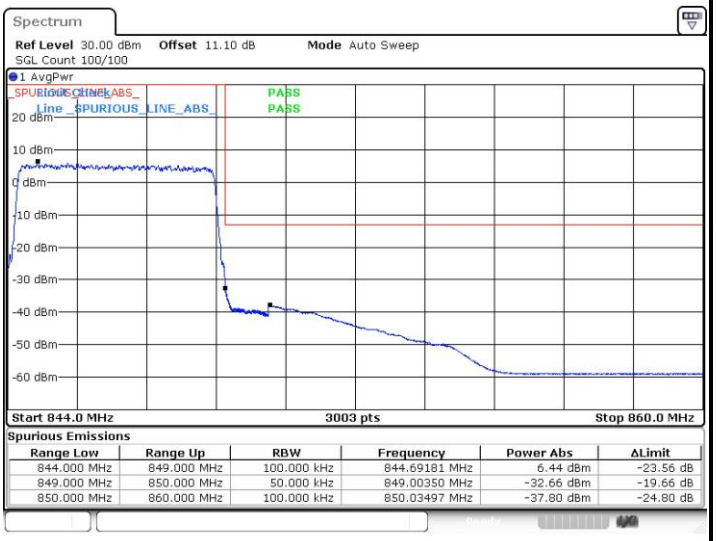



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 815.000 MHz | 823.000 MHz | 100.000 kHz | 822.90809 MHz | -35.55 dBm | -22.55 dB |
| 823.000 MHz | 824.000 MHz | 50.000 kHz | 823.99950 MHz | -31.05 dBm | -18.05 dB |
| 824.000 MHz | 829.000 MHz | 100.000 kHz | 826.85465 MHz | 5.74 dBm | -24.26 dB |

Date: 21.SEP.2018 00:48:00

### Highest Band Edge / Full RB



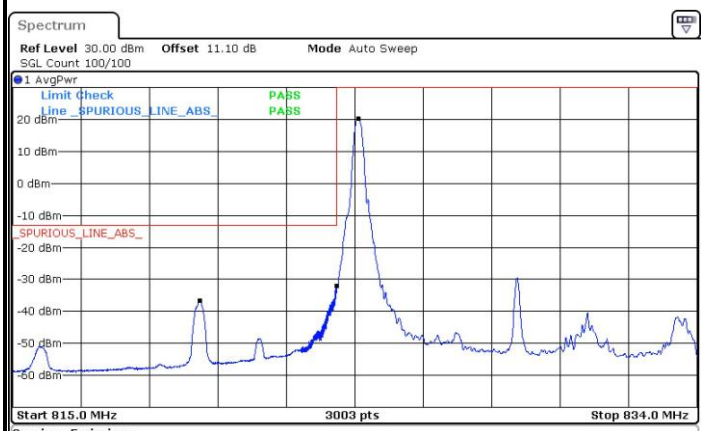

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 844.000 MHz | 849.000 MHz | 100.000 kHz | 844.69181 MHz | 6.44 dBm | -23.56 dB |
| 849.000 MHz | 850.000 MHz | 50.000 kHz | 849.00350 MHz | -32.66 dBm | -19.66 dB |
| 850.000 MHz | 860.000 MHz | 100.000 kHz | 850.03497 MHz | -37.80 dBm | -24.80 dB |

Date: 21.SEP.2018 01:14:59

## LTE Band 5 / 10MHz / QPSK

### Lowest Band Edge / 1 RB

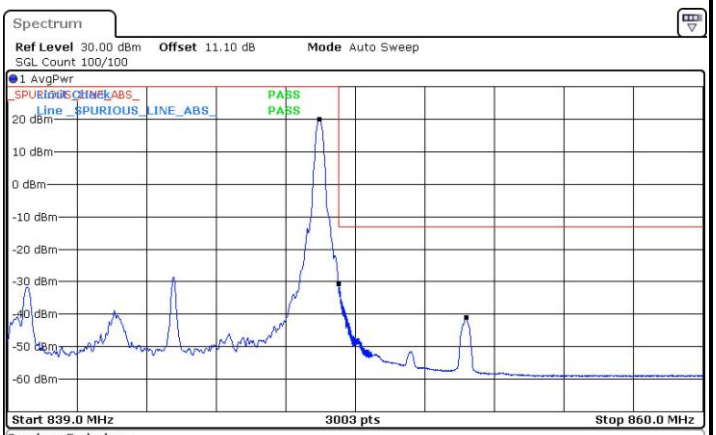



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 815.000 MHz | 823.000 MHz | 100.000 kHz | 820.19081 MHz | -36.65 dBm | -23.65 dB |
| 823.000 MHz | 824.000 MHz | 100.000 kHz | 823.99850 MHz | -31.97 dBm | -18.97 dB |
| 824.000 MHz | 834.000 MHz | 100.000 kHz | 824.58442 MHz | 20.15 dBm | -9.85 dB |

Date: 21.SEP.2018 01:19:20

### Highest Band Edge / 1 RB

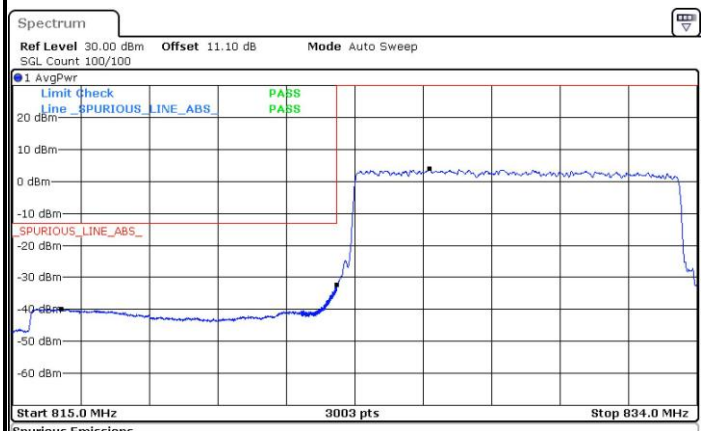



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 839.000 MHz | 849.000 MHz | 100.000 kHz | 848.40559 MHz | 19.98 dBm | -10.02 dB |
| 849.000 MHz | 850.000 MHz | 100.000 kHz | 849.00050 MHz | -30.76 dBm | -17.76 dB |
| 850.000 MHz | 860.000 MHz | 100.000 kHz | 852.84216 MHz | -41.13 dBm | -28.13 dB |

Date: 21.SEP.2018 01:31:22

### Lowest Band Edge / Full RB

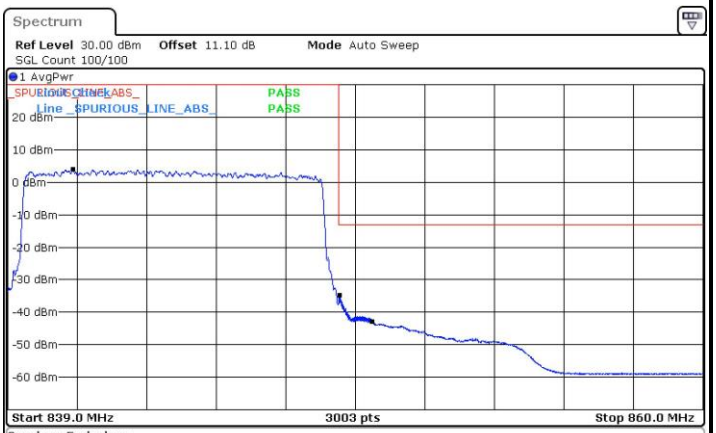



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 815.000 MHz | 823.000 MHz | 100.000 kHz | 816.33866 MHz | -39.92 dBm | -26.92 dB |
| 823.000 MHz | 824.000 MHz | 100.000 kHz | 823.99750 MHz | -32.34 dBm | -19.34 dB |
| 824.000 MHz | 834.000 MHz | 100.000 kHz | 826.57243 MHz | 4.04 dBm | -25.96 dB |

Date: 21.SEP.2018 01:22:40

### Highest Band Edge / Full RB



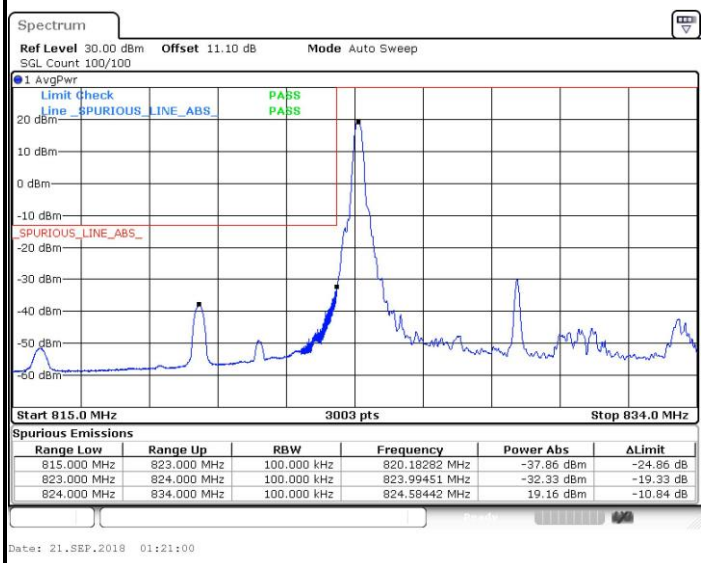

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 839.000 MHz | 849.000 MHz | 100.000 kHz | 840.96304 MHz | 3.95 dBm | -26.05 dB |
| 849.000 MHz | 850.000 MHz | 100.000 kHz | 849.00849 MHz | -34.82 dBm | -21.82 dB |
| 850.000 MHz | 860.000 MHz | 100.000 kHz | 850.01499 MHz | -42.82 dBm | -29.82 dB |

Date: 21.SEP.2018 01:34:43

## LTE Band 5 / 10MHz / 16QAM

### Lowest Band Edge / 1 RB

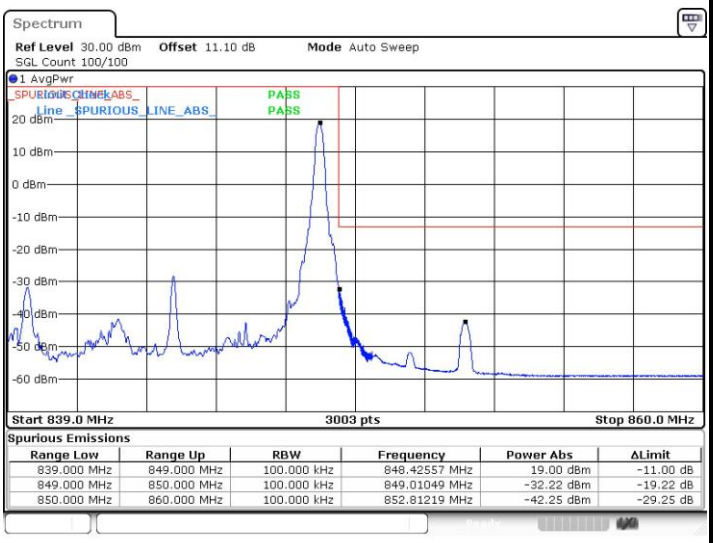



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 815.000 MHz | 823.000 MHz | 100.000 kHz | 820.18282 MHz | -37.86 dBm | -24.86 dB |
| 823.000 MHz | 824.000 MHz | 100.000 kHz | 823.99451 MHz | -32.33 dBm | -19.33 dB |
| 824.000 MHz | 834.000 MHz | 100.000 kHz | 824.58442 MHz | 19.16 dBm | -10.84 dB |

Date: 21.SEP.2018 01:21:00

### Highest Band Edge / 1 RB

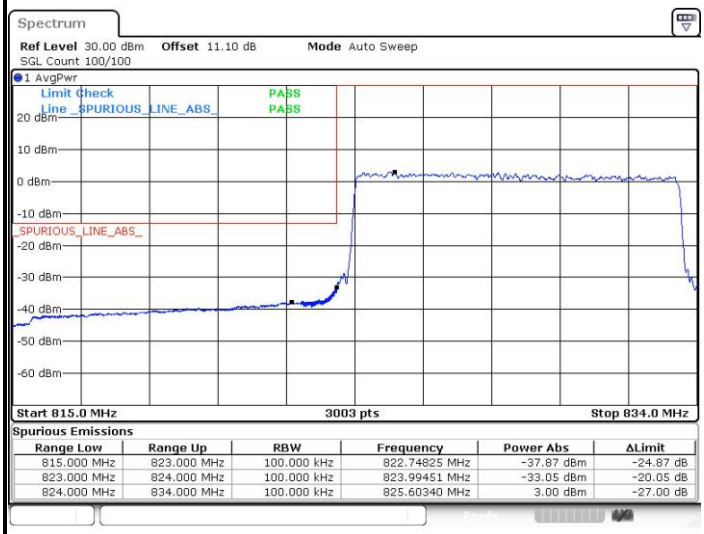



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 839.000 MHz | 849.000 MHz | 100.000 kHz | 848.42557 MHz | 19.00 dBm | -11.00 dB |
| 849.000 MHz | 850.000 MHz | 100.000 kHz | 849.01049 MHz | -32.22 dBm | -19.22 dB |
| 850.000 MHz | 860.000 MHz | 100.000 kHz | 852.81219 MHz | -42.25 dBm | -29.25 dB |

Date: 21.SEP.2018 01:33:02

### Lowest Band Edge / Full RB

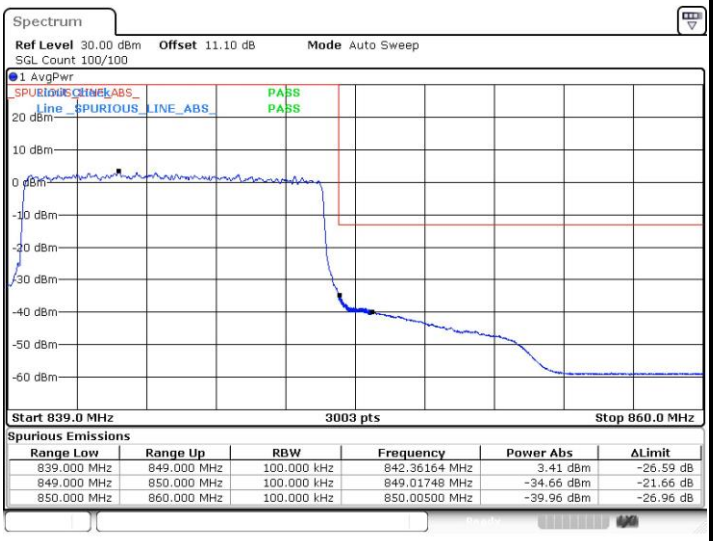



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 815.000 MHz | 823.000 MHz | 100.000 kHz | 822.74825 MHz | -37.87 dBm | -24.87 dB |
| 823.000 MHz | 824.000 MHz | 100.000 kHz | 823.99451 MHz | -33.05 dBm | -20.05 dB |
| 824.000 MHz | 834.000 MHz | 100.000 kHz | 825.60340 MHz | 3.00 dBm | -27.00 dB |

Date: 21.SEP.2018 01:24:20

### Highest Band Edge / Full RB




Spurious Emissions

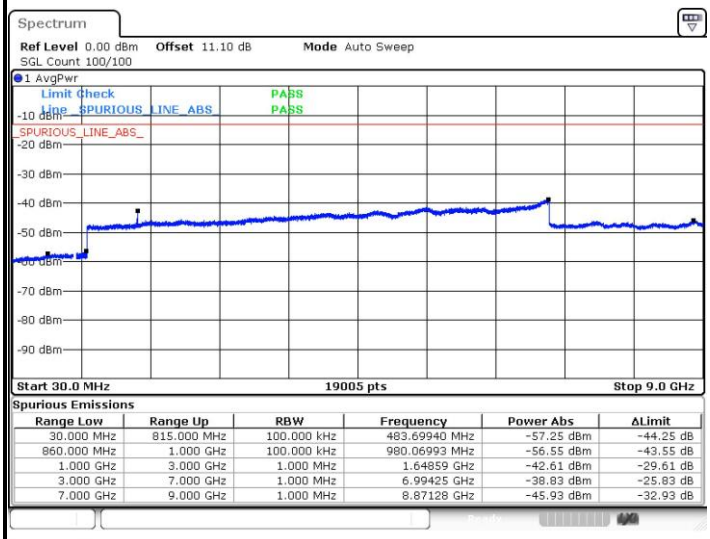
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 839.000 MHz | 849.000 MHz | 100.000 kHz | 842.36164 MHz | 3.41 dBm | -26.59 dB |
| 849.000 MHz | 850.000 MHz | 100.000 kHz | 849.01748 MHz | -34.66 dBm | -21.66 dB |
| 850.000 MHz | 860.000 MHz | 100.000 kHz | 850.00500 MHz | -39.96 dBm | -26.96 dB |

Date: 21.SEP.2018 01:36:23

# Conducted Spurious Emission

## LTE Band 5 / 1.4MHz

### Lowest Channel / QPSK

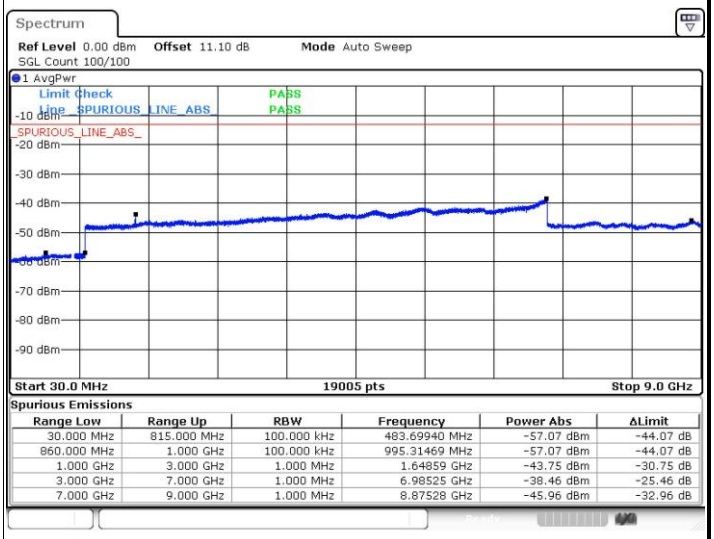



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 483.69940 MHz | -57.25 dBm | -44.25 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 980.06993 MHz | -56.55 dBm | -43.55 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.64859 GHz | -42.61 dBm | -29.61 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99425 GHz | -38.83 dBm | -25.83 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.87128 GHz | -45.93 dBm | -32.93 dB |

Date: 21.SEP.2018 01:47:48

### Lowest Channel / 16QAM

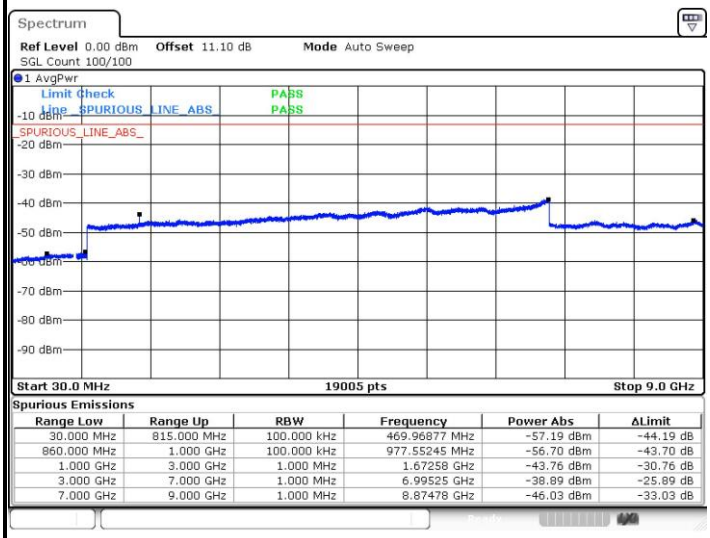



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 483.69940 MHz | -57.07 dBm | -44.07 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 995.31469 MHz | -57.07 dBm | -44.07 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.64859 GHz | -43.75 dBm | -30.75 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.98525 GHz | -38.46 dBm | -25.46 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.87528 GHz | -45.96 dBm | -32.96 dB |

Date: 21.SEP.2018 01:48:43

### Middle Channel / QPSK

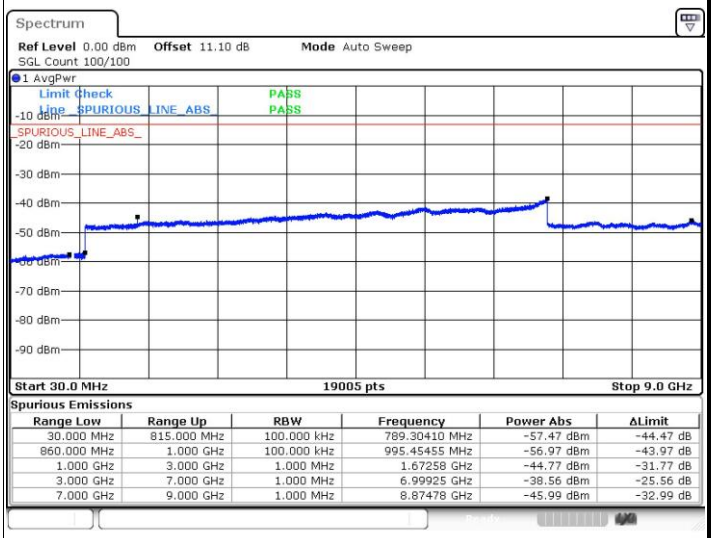



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 469.96877 MHz | -57.19 dBm | -44.19 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 977.55245 MHz | -56.70 dBm | -43.70 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.67258 GHz | -43.76 dBm | -30.76 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99525 GHz | -38.89 dBm | -25.89 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.87478 GHz | -46.03 dBm | -33.03 dB |

Date: 21.SEP.2018 01:50:29

### Middle Channel / 16QAM



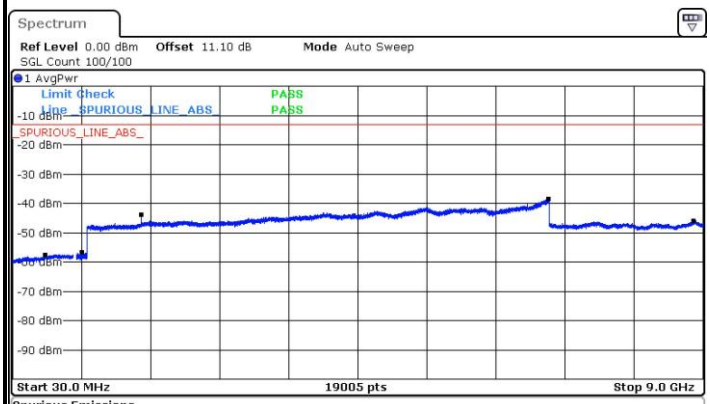

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 789.30410 MHz | -57.47 dBm | -44.47 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 995.45455 MHz | -56.97 dBm | -43.97 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.67258 GHz | -44.77 dBm | -31.77 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99925 GHz | -38.56 dBm | -25.56 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.87478 GHz | -45.99 dBm | -32.99 dB |

Date: 21.SEP.2018 01:51:23

## LTE Band 5 / 1.4MHz

### Highest Channel / QPSK

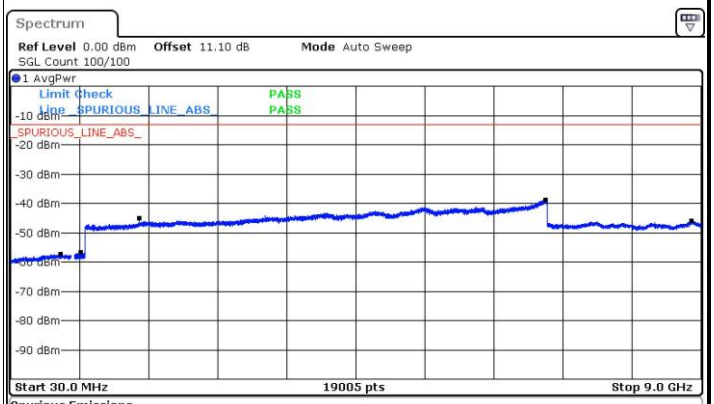



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 455.84583 MHz | -57.46 dBm | -44.46 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 927.62238 MHz | -56.68 dBm | -43.68 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.69608 GHz | -43.80 dBm | -30.80 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.98825 GHz | -38.58 dBm | -25.58 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.87728 GHz | -45.93 dBm | -32.93 dB |

Date: 21.SEP.2018 01:59:52

### Highest Channel / 16QAM



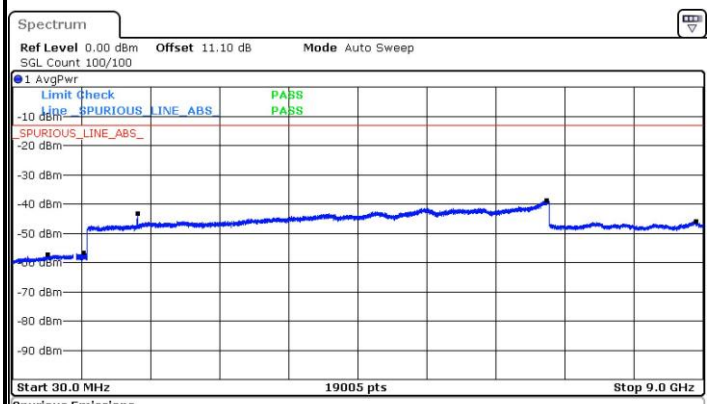

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 673.57446 MHz | -57.35 dBm | -44.35 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 936.99301 MHz | -56.75 dBm | -43.75 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.69608 GHz | -45.01 dBm | -32.01 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.97925 GHz | -38.75 dBm | -25.75 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.87728 GHz | -46.02 dBm | -33.02 dB |

Date: 21.SEP.2018 02:00:47

## LTE Band 5 / 3MHz

### Lowest Channel / QPSK

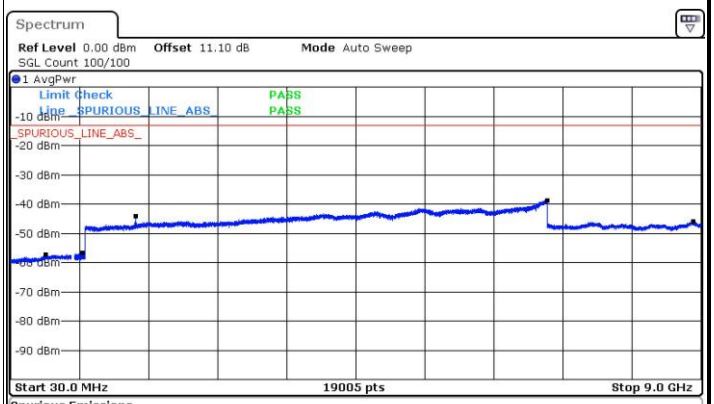



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 483.69940 MHz | -57.18 dBm | -44.18 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 951.67832 MHz | -56.85 dBm | -43.85 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.64859 GHz | -43.18 dBm | -30.18 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.96575 GHz | -38.88 dBm | -25.88 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.90677 GHz | -45.89 dBm | -32.89 dB |

Date: 21.SEP.2018 00:25:06

### Lowest Channel / 16QAM



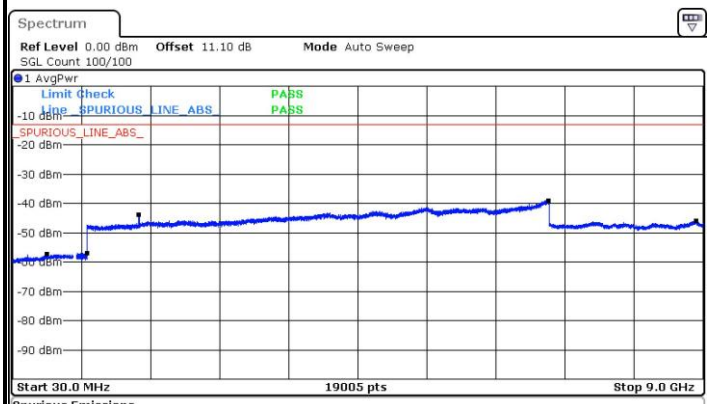

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 483.69940 MHz | -57.33 dBm | -44.33 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 957.27273 MHz | -56.75 dBm | -43.75 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.64859 GHz | -44.17 dBm | -31.17 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99775 GHz | -38.92 dBm | -25.92 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.89328 GHz | -45.82 dBm | -32.82 dB |

Date: 21.SEP.2018 00:26:01

## LTE Band 5 / 3MHz

### Middle Channel / QPSK

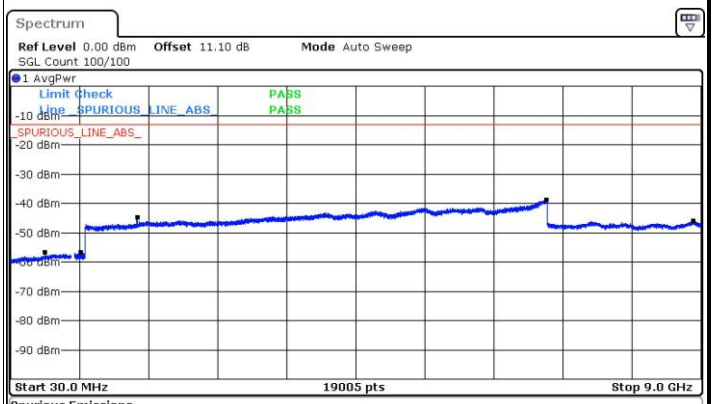



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 470.75337 MHz | -57.23 dBm | -44.23 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 990.55944 MHz | -57.00 dBm | -44.00 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.67058 GHz | -43.89 dBm | -30.89 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99025 GHz | -39.06 dBm | -26.06 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.90627 GHz | -45.92 dBm | -32.92 dB |

Date: 21.SEP.2018 00:29:58

### Middle Channel / 16QAM

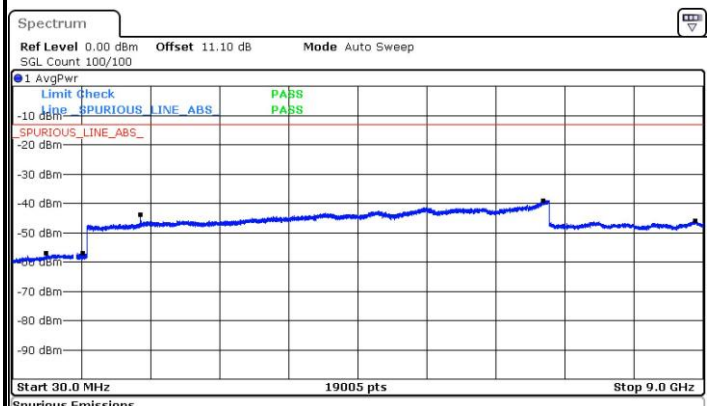



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 470.75337 MHz | -56.74 dBm | -43.74 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 938.95105 MHz | -56.83 dBm | -43.83 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.67108 GHz | -44.73 dBm | -31.73 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.98575 GHz | -38.86 dBm | -25.86 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.89578 GHz | -45.94 dBm | -32.94 dB |

Date: 21.SEP.2018 00:30:53

### Highest Channel / QPSK

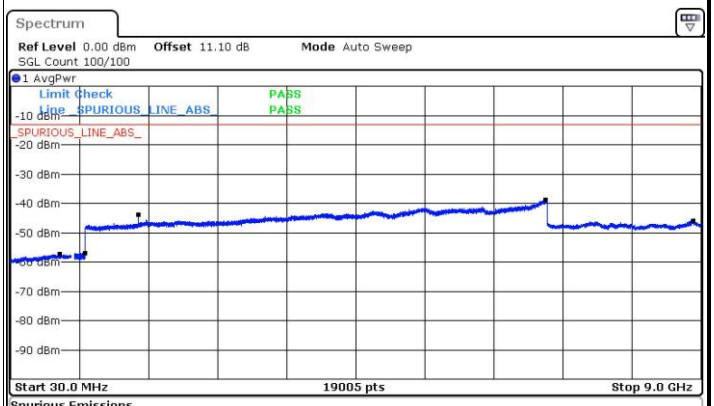



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 457.80735 MHz | -57.02 dBm | -44.02 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 933.63636 MHz | -56.95 dBm | -43.95 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.69308 GHz | -44.00 dBm | -31.00 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.91976 GHz | -38.98 dBm | -25.98 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.90227 GHz | -45.99 dBm | -32.99 dB |

Date: 21.SEP.2018 00:39:22

### Highest Channel / 16QAM



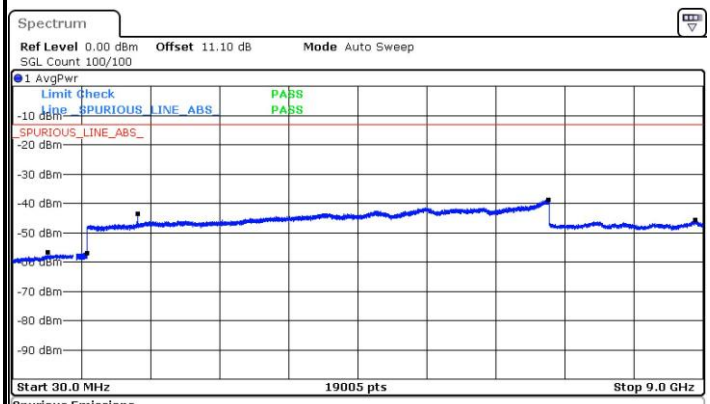

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 669.65142 MHz | -57.43 dBm | -44.43 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 996.43357 MHz | -56.95 dBm | -43.95 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.69258 GHz | -44.03 dBm | -31.03 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.97975 GHz | -38.85 dBm | -25.85 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.89878 GHz | -45.97 dBm | -32.97 dB |

Date: 21.SEP.2018 00:40:18

## LTE Band 5 / 5MHz

### Lowest Channel / QPSK

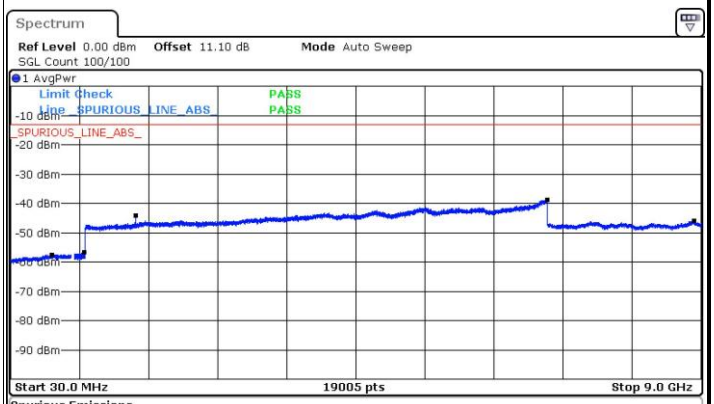



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 483.69940 MHz | -56.85 dBm | -43.85 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 992.09790 MHz | -56.98 dBm | -43.98 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.64859 GHz | -43.58 dBm | -30.58 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99175 GHz | -38.70 dBm | -25.70 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.89578 GHz | -45.68 dBm | -32.68 dB |

Date: 21.SEP.2018 01:02:52

### Lowest Channel / 16QAM

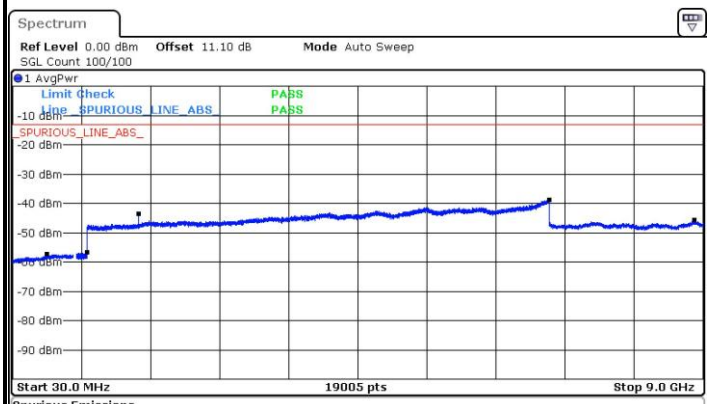



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 560.98326 MHz | -57.53 dBm | -44.53 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 988.18182 MHz | -56.76 dBm | -43.76 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.64909 GHz | -44.08 dBm | -31.08 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99775 GHz | -38.85 dBm | -25.85 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.90377 GHz | -45.91 dBm | -32.91 dB |

Date: 21.SEP.2018 01:04:33

### Middle Channel / QPSK

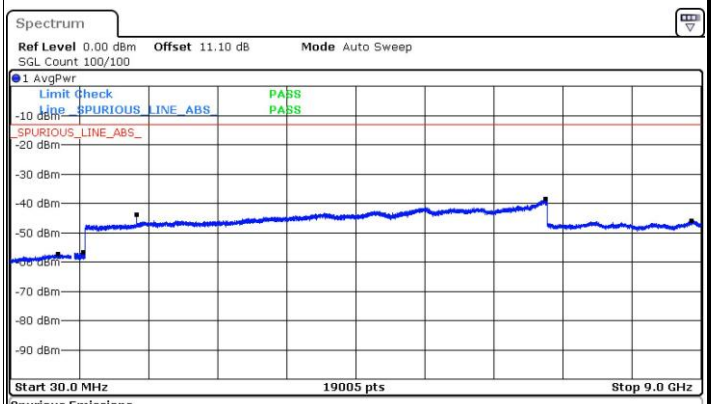



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 471.93028 MHz | -57.31 dBm | -44.31 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 993.77622 MHz | -56.78 dBm | -43.78 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.66908 GHz | -43.64 dBm | -30.64 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99875 GHz | -38.92 dBm | -25.92 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.88478 GHz | -45.73 dBm | -32.73 dB |

Date: 21.SEP.2018 01:06:30

### Middle Channel / 16QAM



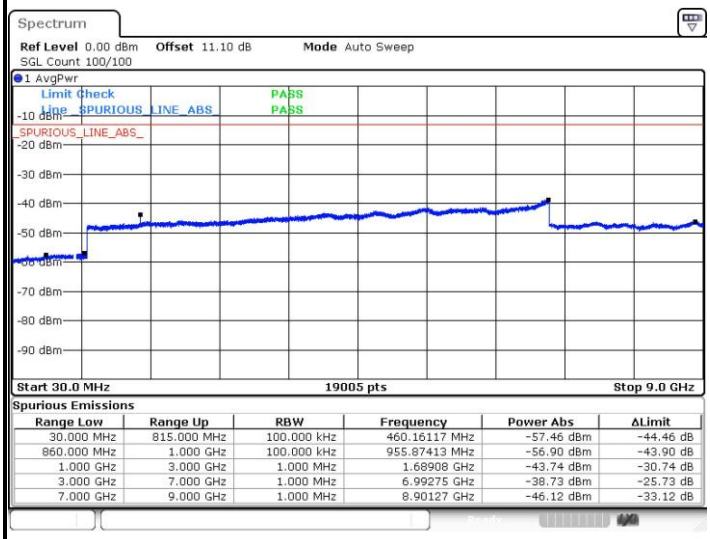

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 641.40555 MHz | -57.36 dBm | -44.36 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 971.53846 MHz | -56.83 dBm | -43.83 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.66908 GHz | -43.75 dBm | -30.75 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.97825 GHz | -38.60 dBm | -25.60 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.87878 GHz | -45.89 dBm | -32.89 dB |

Date: 21.SEP.2018 01:07:25

## LTE Band 5 / 5MHz

### Highest Channel / QPSK

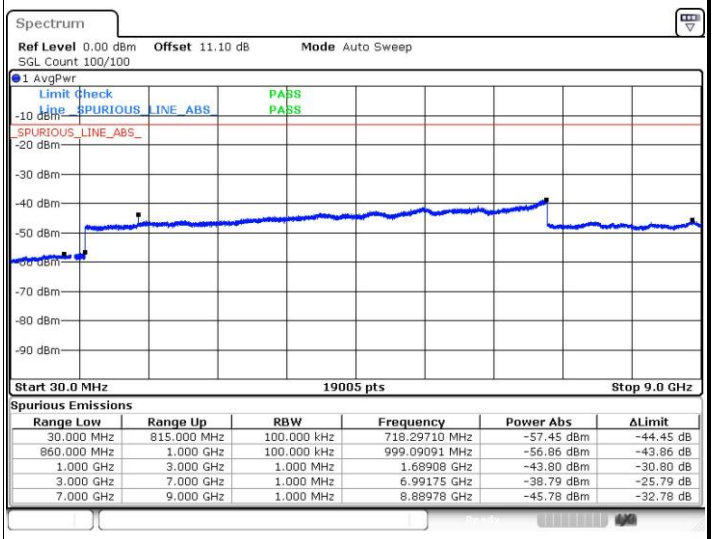



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 460.16117 MHz | -57.46 dBm | -44.46 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 955.87413 MHz | -56.90 dBm | -43.90 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.68908 GHz | -43.74 dBm | -30.74 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99275 GHz | -38.73 dBm | -25.73 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.90127 GHz | -46.12 dBm | -33.12 dB |

Date: 21.SEP.2018 01:15:53

### Highest Channel / 16QAM



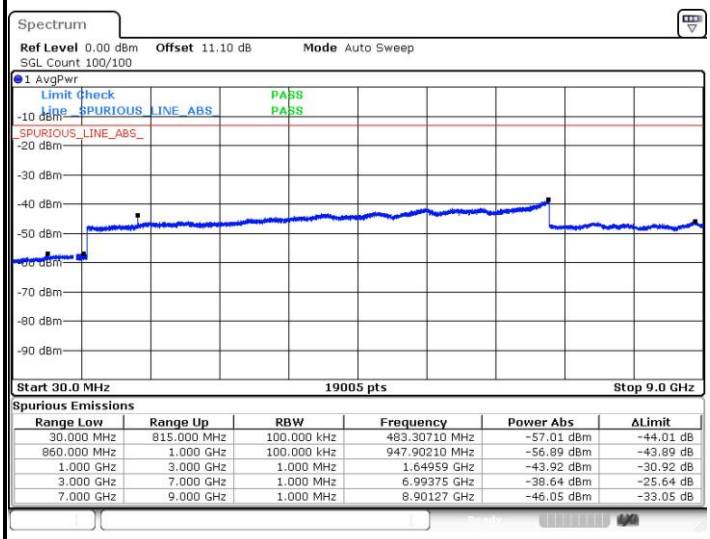

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 718.29710 MHz | -57.45 dBm | -44.45 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 999.09091 MHz | -56.86 dBm | -43.86 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.68908 GHz | -43.80 dBm | -30.80 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99175 GHz | -38.79 dBm | -25.79 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.88978 GHz | -45.78 dBm | -32.78 dB |

Date: 21.SEP.2018 01:16:47

## LTE Band 5 / 10MHz

### Lowest Channel / QPSK

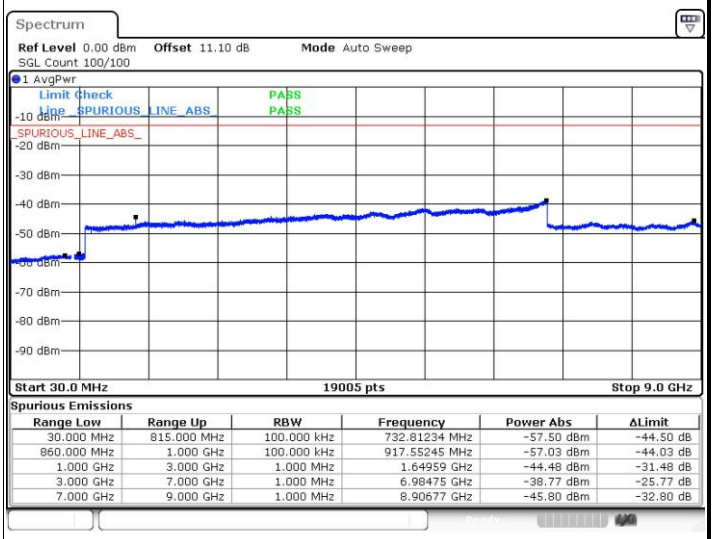



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 483.30710 MHz | -57.01 dBm | -44.01 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 947.90210 MHz | -56.89 dBm | -43.89 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.64959 GHz | -43.92 dBm | -30.92 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99375 GHz | -38.64 dBm | -25.64 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.90127 GHz | -46.05 dBm | -33.05 dB |

Date: 21.SEP.2018 01:25:14

### Lowest Channel / 16QAM



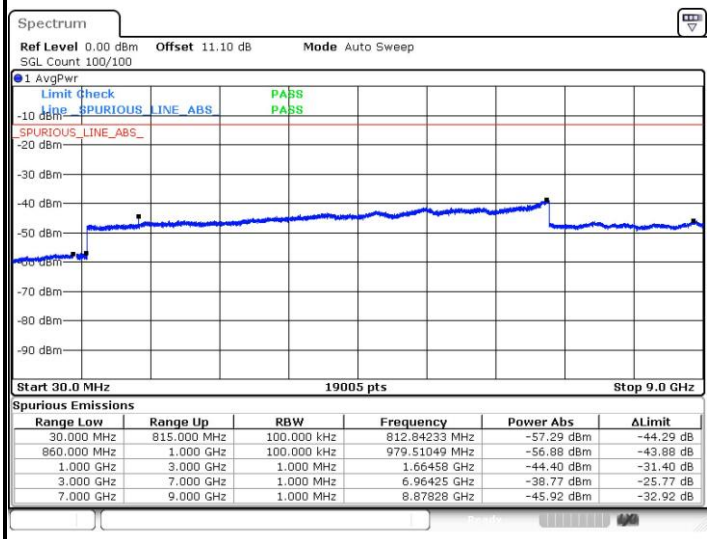

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 732.81234 MHz | -57.50 dBm | -44.50 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 917.55245 MHz | -57.03 dBm | -44.03 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.64959 GHz | -44.48 dBm | -31.48 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.98475 GHz | -38.77 dBm | -25.77 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.90677 GHz | -45.80 dBm | -32.80 dB |

Date: 21.SEP.2018 01:26:08

## LTE Band 5 / 10MHz

### Middle Channel / QPSK

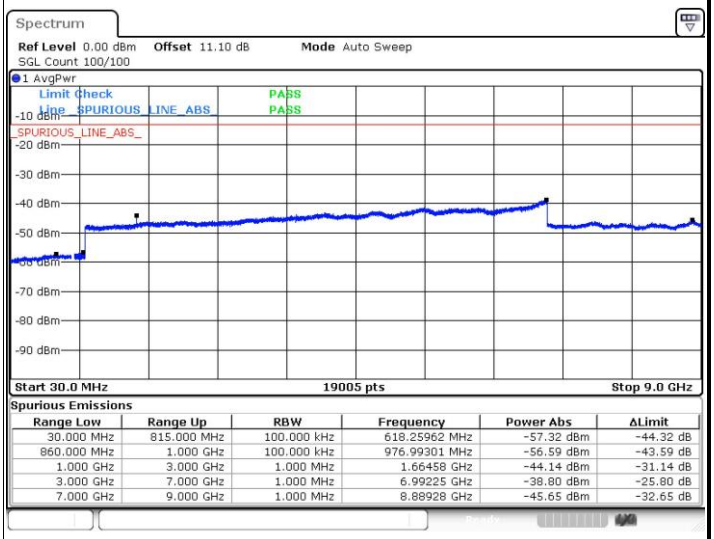



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 812.84233 MHz | -57.29 dBm | -44.29 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 979.51049 MHz | -56.88 dBm | -43.88 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.66458 GHz | -44.40 dBm | -31.40 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.96425 GHz | -38.77 dBm | -25.77 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.87828 GHz | -45.92 dBm | -32.92 dB |

Date: 21.SEP.2018 01:27:54

### Middle Channel / 16QAM

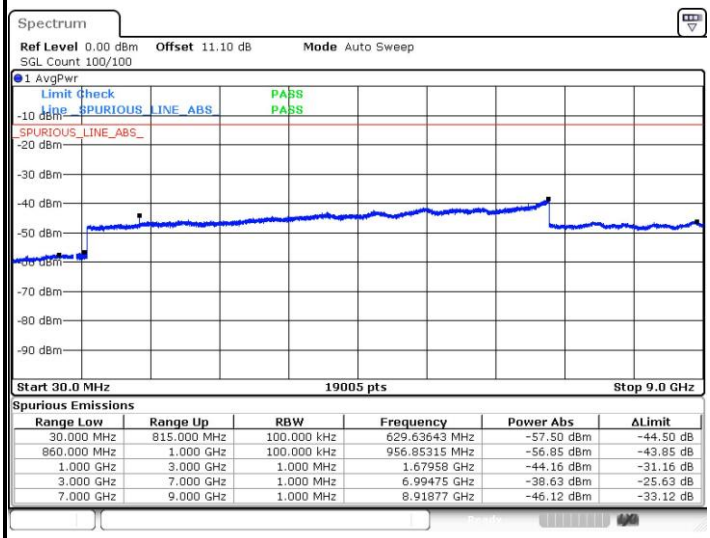



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 618.25962 MHz | -57.32 dBm | -44.32 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 976.99301 MHz | -56.59 dBm | -43.59 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.66458 GHz | -44.14 dBm | -31.14 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99225 GHz | -38.80 dBm | -25.80 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.88928 GHz | -45.65 dBm | -32.65 dB |

Date: 21.SEP.2018 01:28:49

### Highest Channel / QPSK

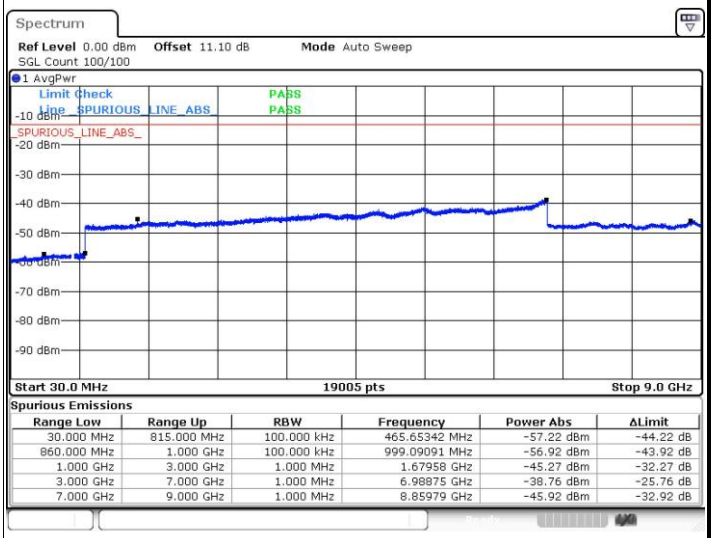



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 629.63643 MHz | -57.50 dBm | -44.50 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 956.85315 MHz | -56.85 dBm | -43.85 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.67958 GHz | -44.16 dBm | -31.16 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99475 GHz | -38.63 dBm | -25.63 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.91877 GHz | -46.12 dBm | -33.12 dB |

Date: 21.SEP.2018 01:37:17

### Highest Channel / 16QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 815.000 MHz | 100.000 kHz | 465.65342 MHz | -57.22 dBm | -44.22 dB |
| 860.000 MHz | 1.000 GHz | 100.000 kHz | 999.09091 MHz | -56.92 dBm | -43.92 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.67958 GHz | -45.27 dBm | -32.27 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.98875 GHz | -38.76 dBm | -25.76 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 8.85979 GHz | -45.92 dBm | -32.92 dB |

Date: 21.SEP.2018 01:38:11

# 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 | 0.0057 | PASS |
| 40 | Normal Voltage | 0.0060 | |
| 30 | Normal Voltage | 0.0085 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0002 | |
| 0 | Normal Voltage | 0.0037 | |
| -10 | Normal Voltage | 0.0036 | |
| -20 | Normal Voltage | 0.0037 | |
| -30 | Normal Voltage | 0.0059 | |
| 20 | Maximum Voltage | 0.0026 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0039 | |

**Note:**

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.4 V.；Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

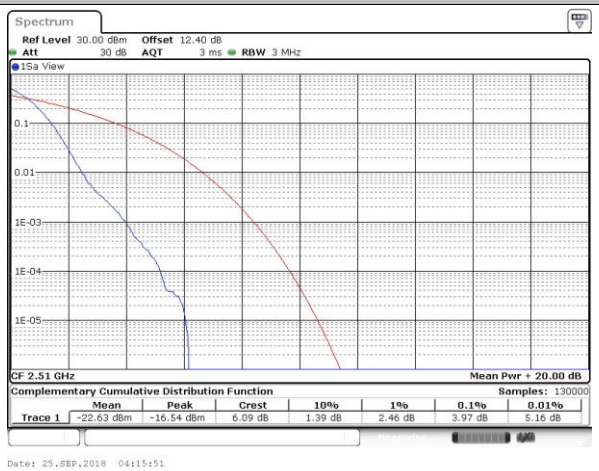
# LTE Band 7

## Peak-to-Average Ratio

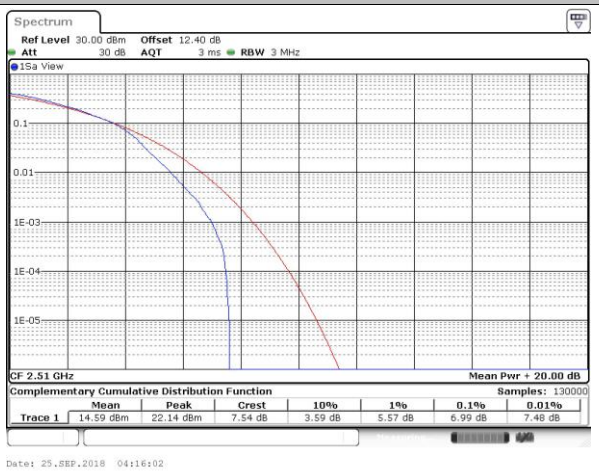
| Mode | LTE Band 7 / 20MHz | | | | |
|---|---|---|---|---|---|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 3.97 | 6.99 | 4.38 | 7.33 | PASS |
| Middle CH | 4.93 | 6.9 | 5.25 | 7.3 | |
| Highest CH | 5.19 | 6.75 | 5.3 | 7.3 | |

## LTE Band 7 / 20MHz / QPSK

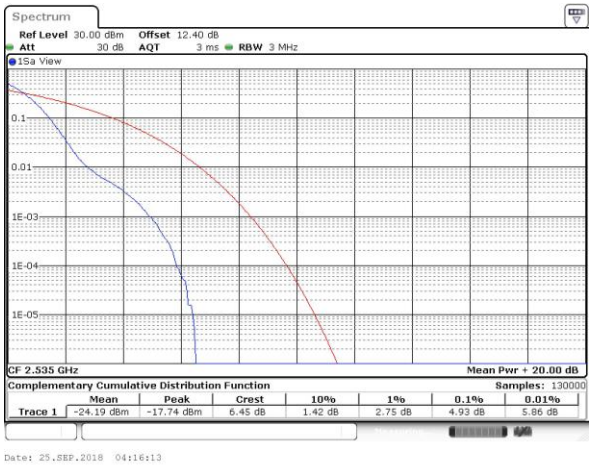
### Lowest Channel / 1RB



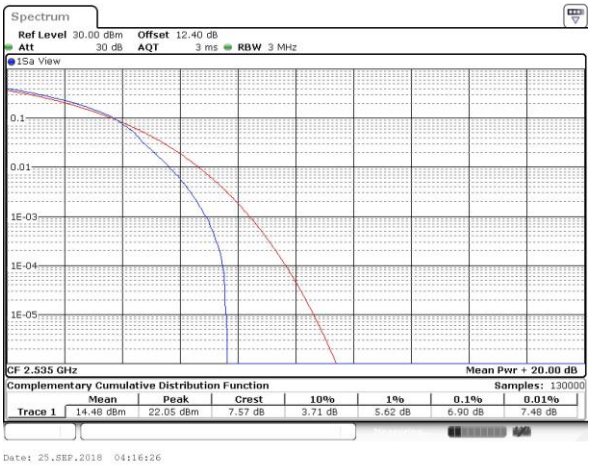

### Lowest Channel / Full RB



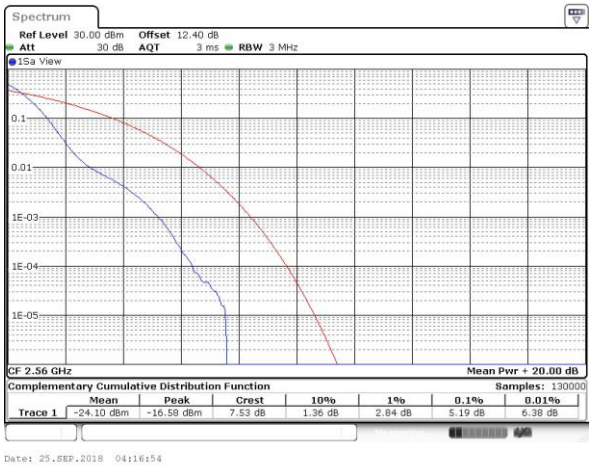

### Middle Channel / 1RB



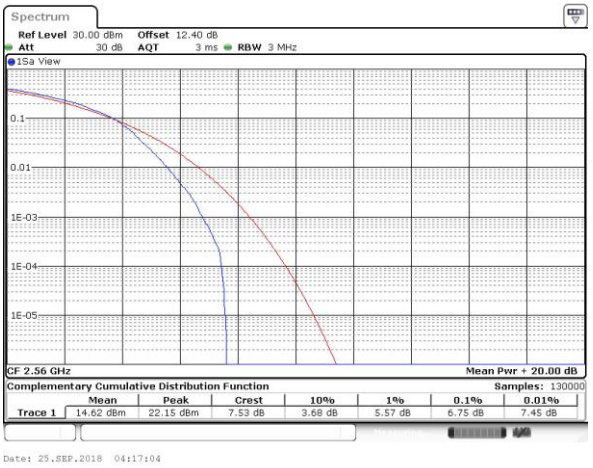

### Middle Channel / Full RB




### Highest Channel / 1RB

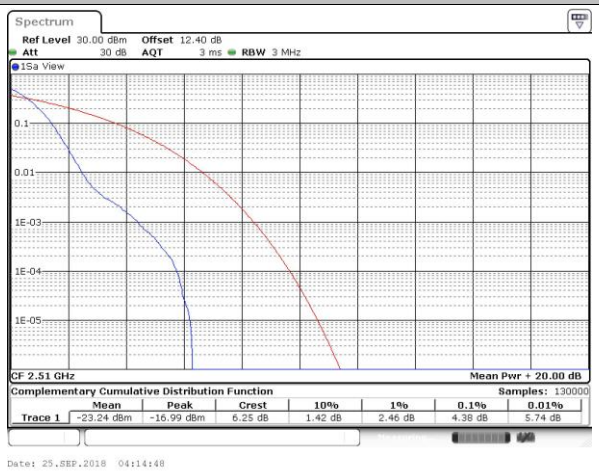



### Highest Channel / Full RB

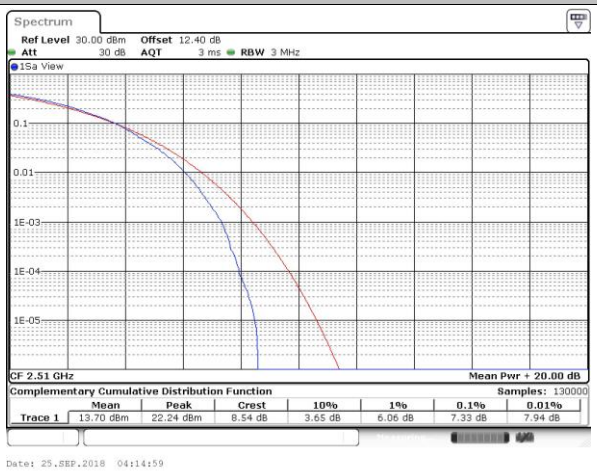


## LTE Band 7 / 20MHz / 16QAM

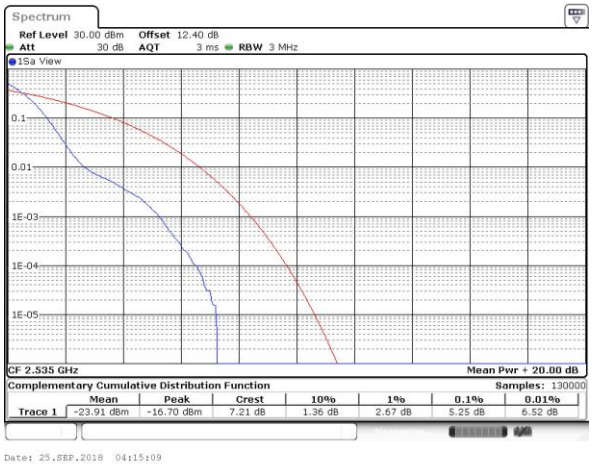
### Lowest Channel / 1RB



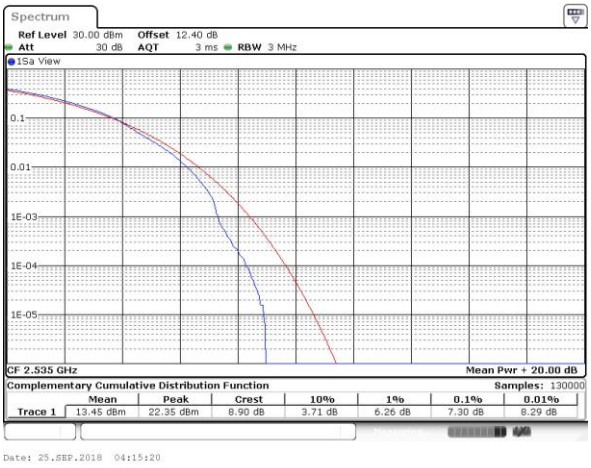

### Lowest Channel / Full RB



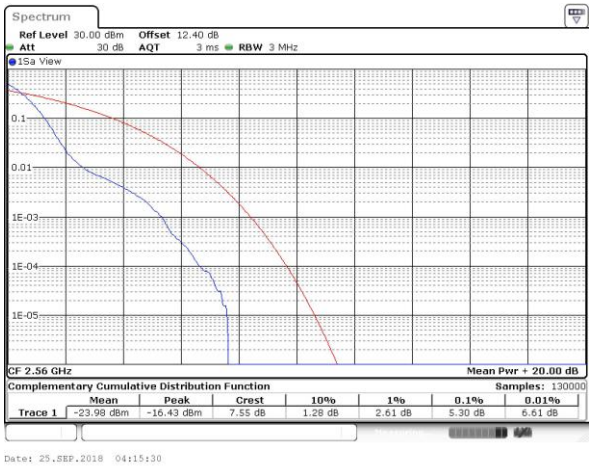

### Middle Channel / 1RB



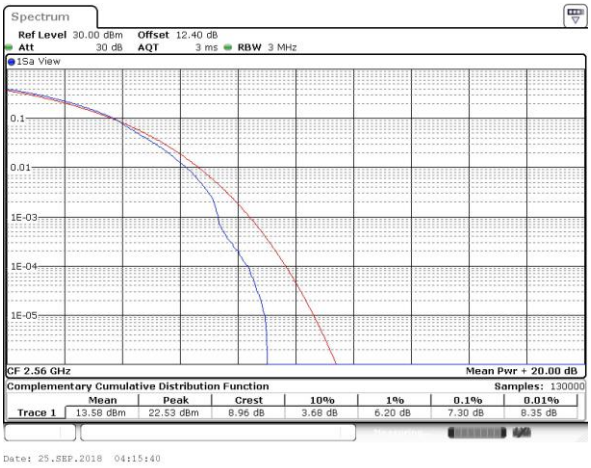

### Middle Channel / Full RB




### Highest Channel / 1RB




### Highest Channel / Full RB

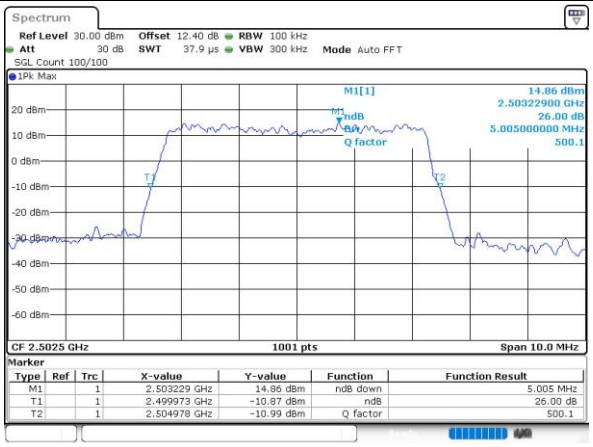


# 26dB Bandwidth

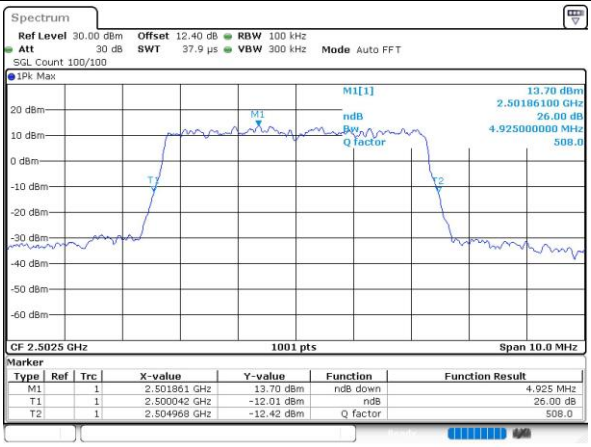
| Mode | LTE Band 7 : 26dB BW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 5.01 | 4.93 | 9.89 | 9.97 | 14.42 | 14.60 | 20.30 | 20.26 |
| Middle CH | - | - | - | - | 4.85 | 4.81 | 9.85 | 9.83 | 14.30 | 14.33 | 20.38 | 20.22 |
| Highest CH | - | - | - | - | 4.96 | 4.95 | 9.89 | 9.75 | 14.48 | 14.45 | 20.30 | 20.22 |

## LTE Band 7

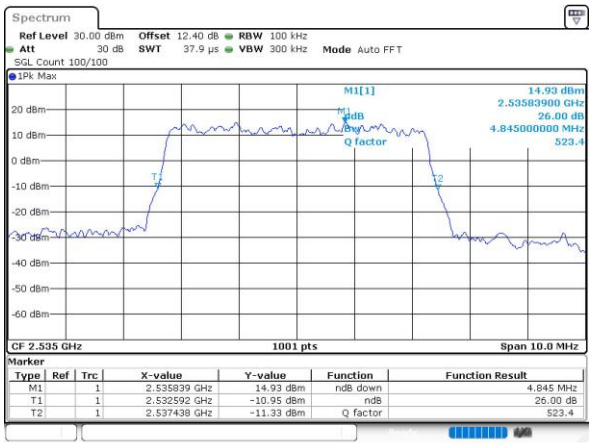
### Lowest Channel / 5MHz / QPSK



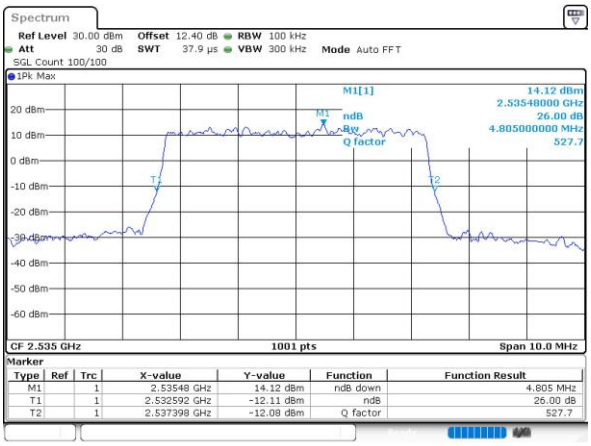

### Lowest Channel / 5MHz / 16QAM



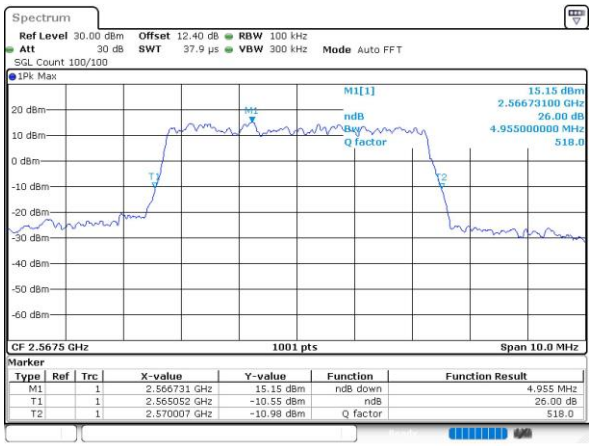

### Middle Channel / 5MHz / QPSK



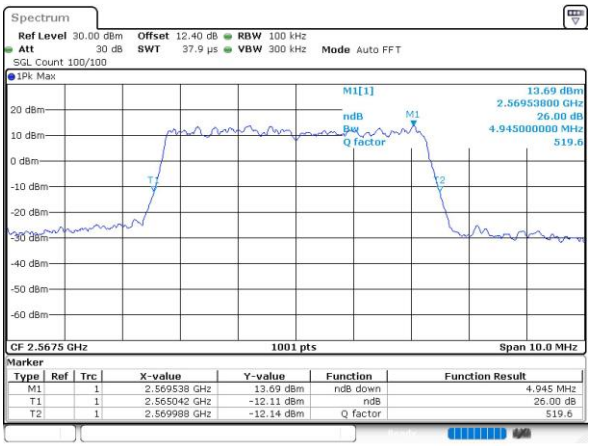

### Middle Channel / 5MHz / 16QAM




### Highest Channel / 5MHz / QPSK

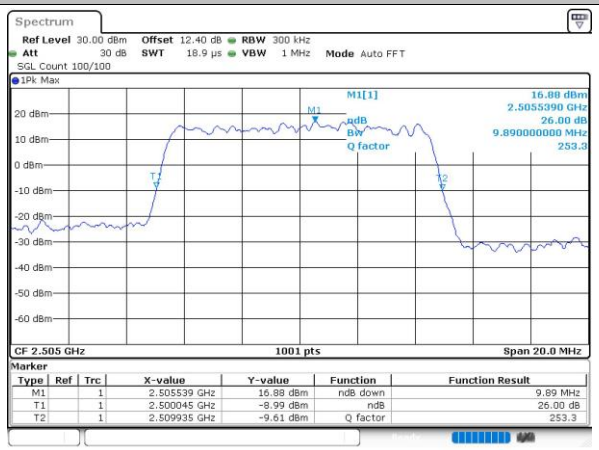



### Highest Channel / 5MHz / 16QAM

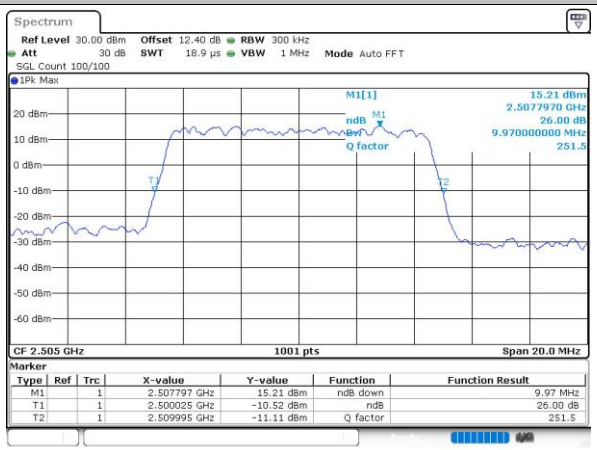


## LTE Band 7

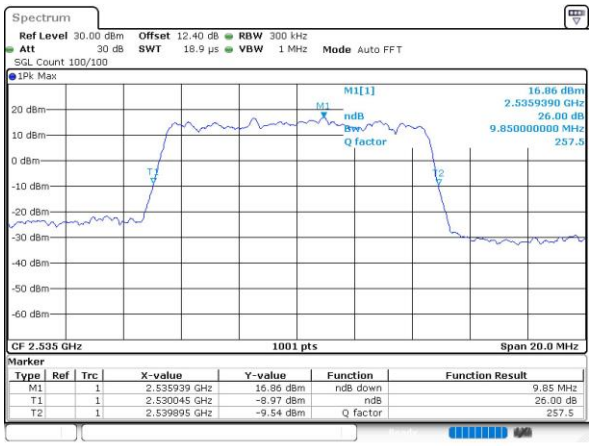
### Lowest Channel / 10MHz / QPSK



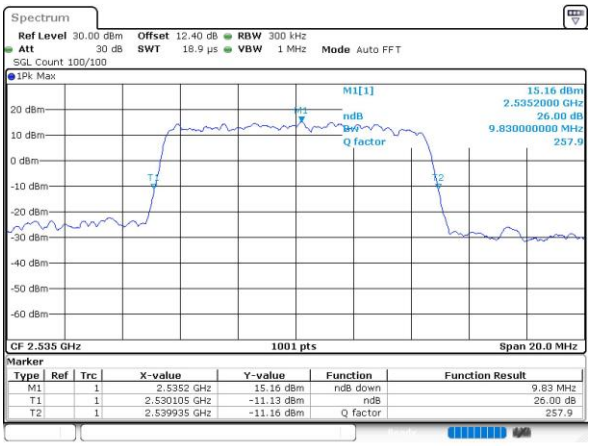

### Lowest Channel / 10MHz / 16QAM



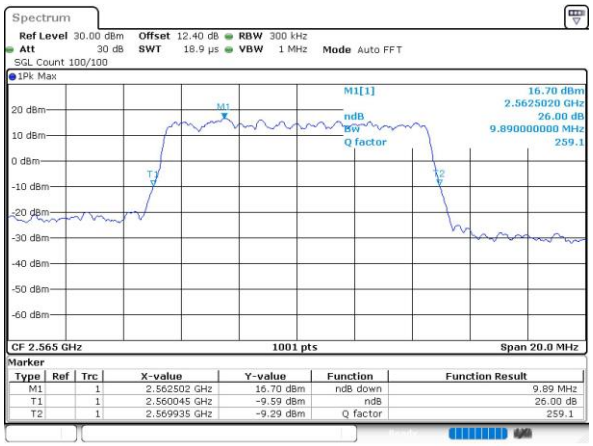

### Middle Channel / 10MHz / QPSK



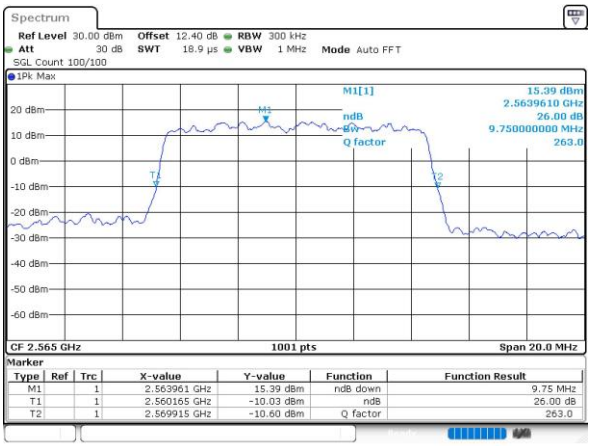

### Middle Channel / 10MHz / 16QAM




### Highest Channel / 10MHz / QPSK

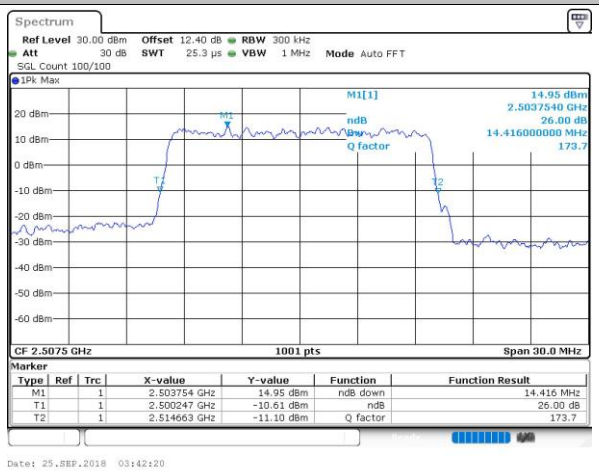



### Highest Channel / 10MHz / 16QAM

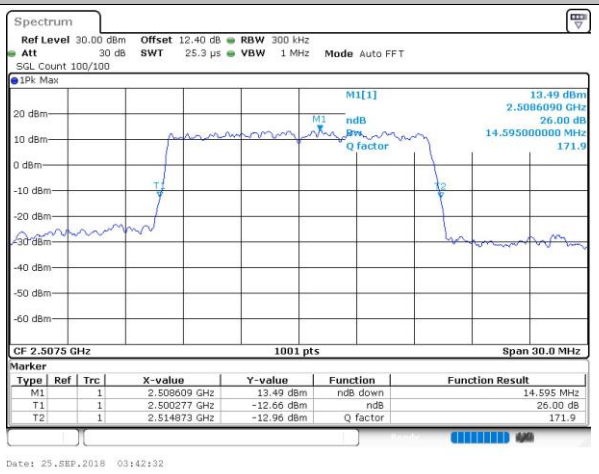


## LTE Band 7

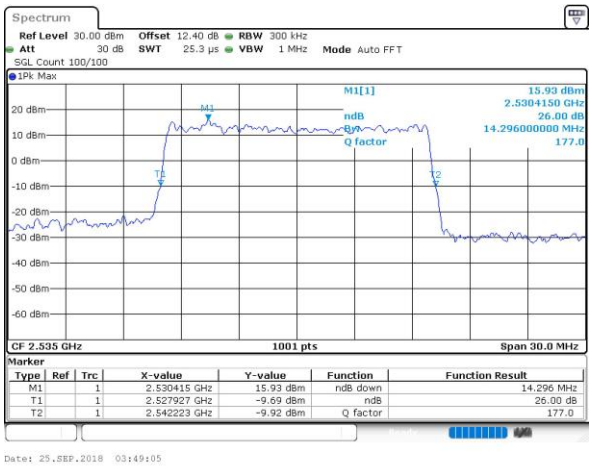
### Lowest Channel / 15MHz / QPSK



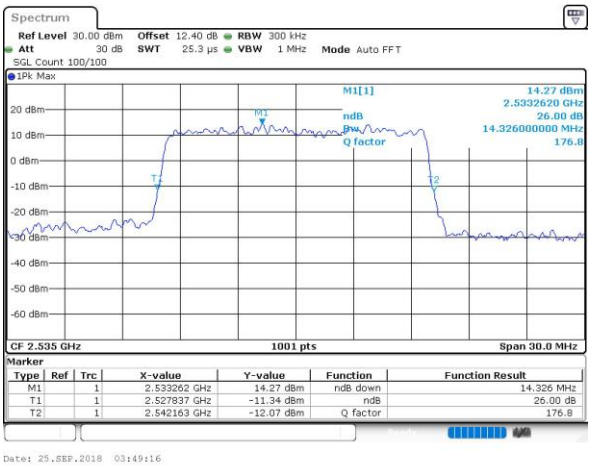

### Lowest Channel / 15MHz / 16QAM



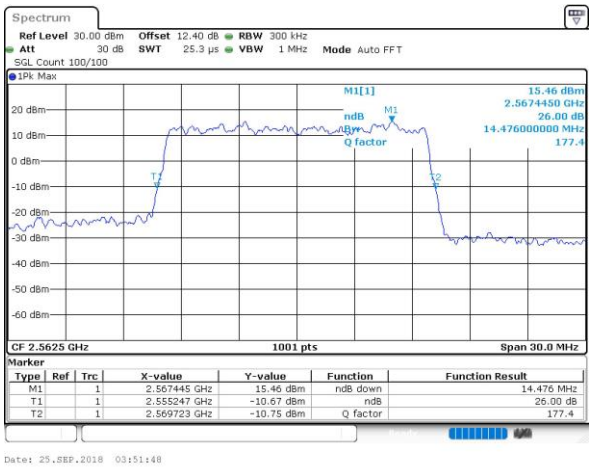

### Middle Channel / 15MHz / QPSK



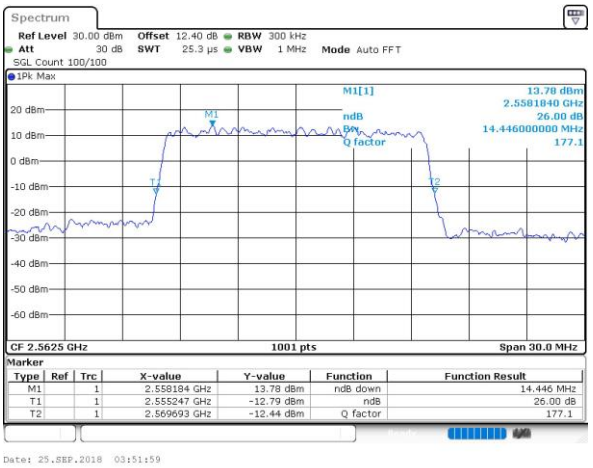

### Middle Channel / 15MHz / 16QAM




### Highest Channel / 15MHz / QPSK

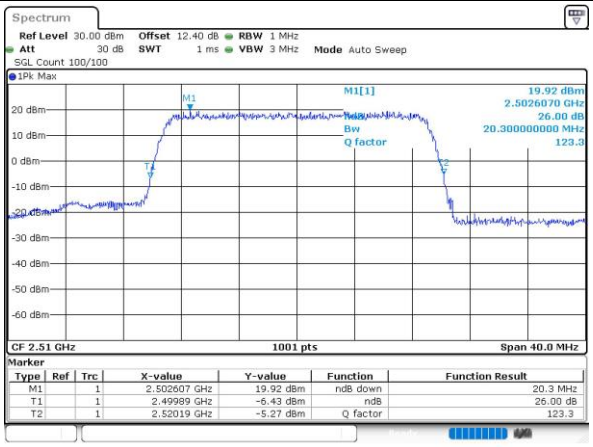



### Highest Channel / 15MHz / 16QAM

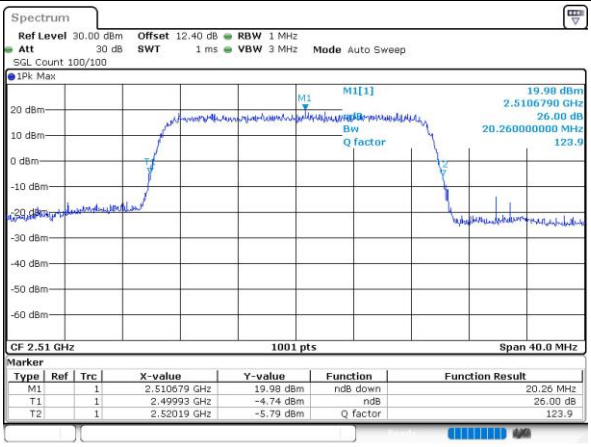


## LTE Band 7

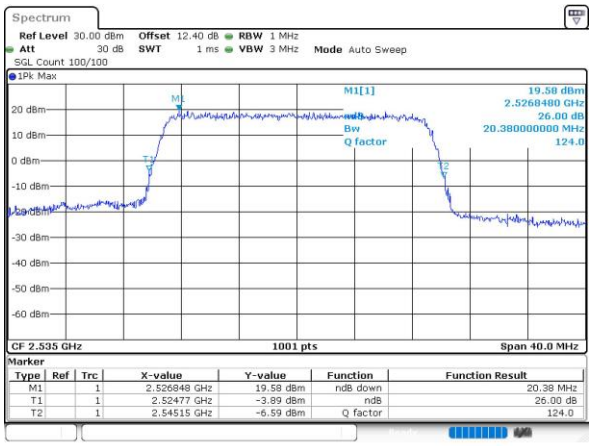
### Lowest Channel / 20MHz / QPSK



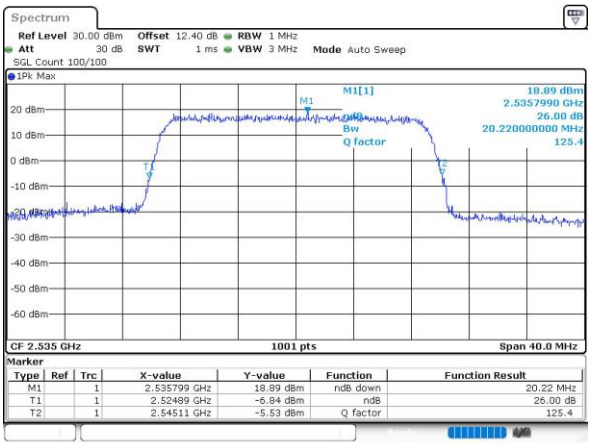

### Lowest Channel / 20MHz / 16QAM



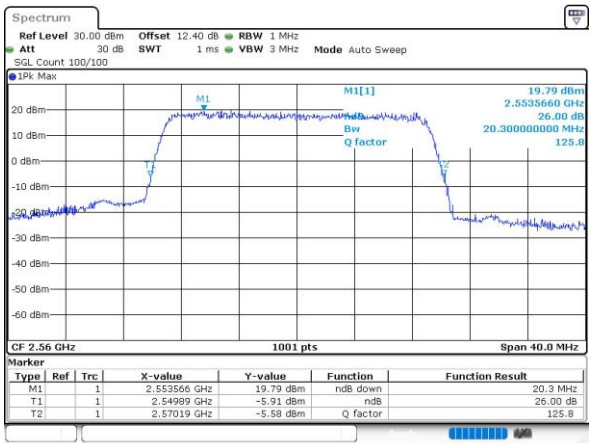

### Middle Channel / 20MHz / QPSK



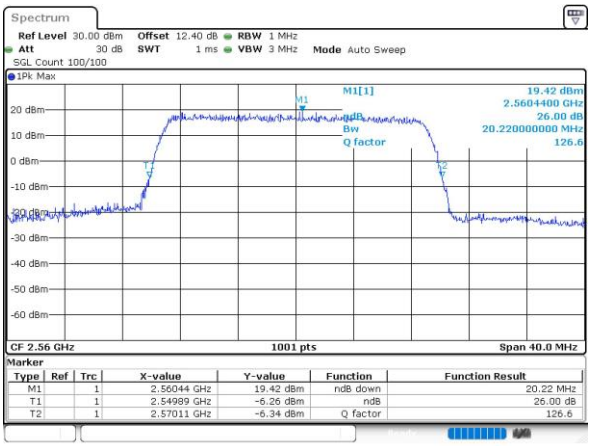

### Middle Channel / 20MHz / 16QAM




### Highest Channel / 20MHz / QPSK




### Highest Channel / 20MHz / 16QAM



# Occupied Bandwidth

| Mode | LTE Band 7 : 99%OBW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.47 | 4.5 | 9.03 | 9.03 | 13.46 | 13.4 | 18.38 | 18.38 |
| Middle CH | - | - | - | - | 4.48 | 4.51 | 8.99 | 8.97 | 13.43 | 13.49 | 18.38 | 18.34 |
| Highest CH | - | - | - | - | 4.49 | 4.47 | 9.07 | 9.03 | 13.43 | 13.49 | 18.34 | 18.3 |