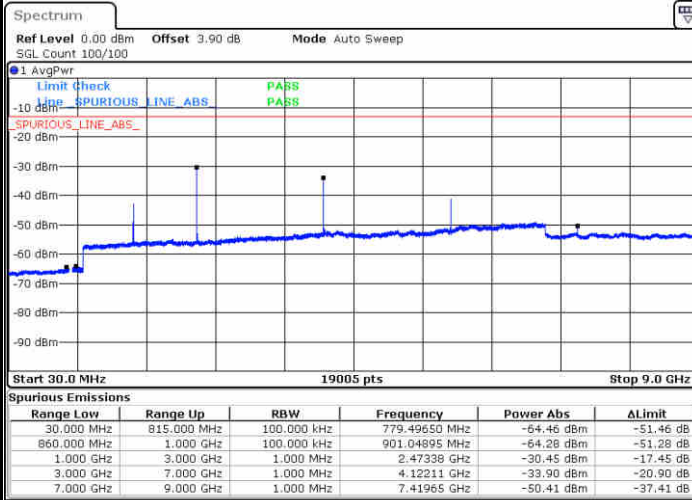




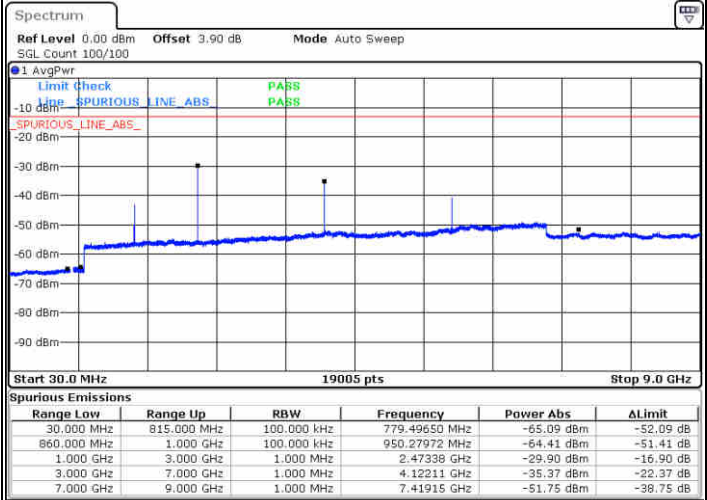
## LTE Band 5 / 5MHz

## Lowest Channel / QPSK



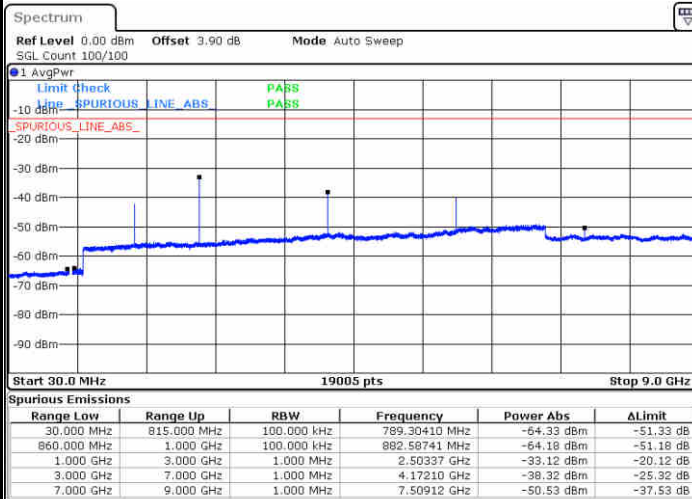
Date: 24 MAY 2017 11:06:38

## Lowest Channel / 16QAM



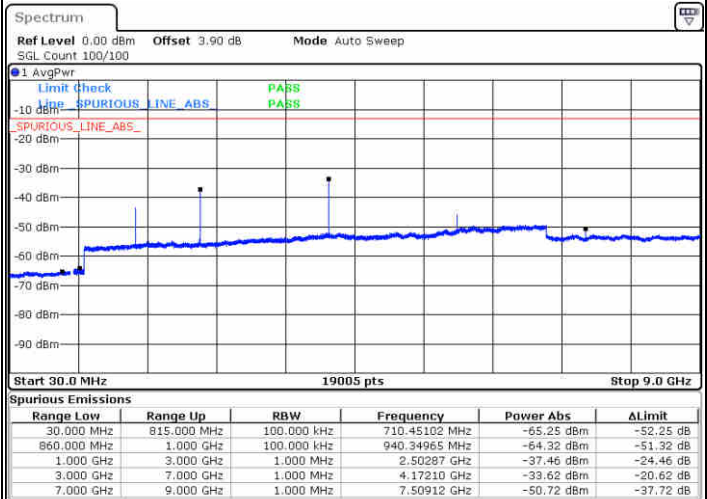
Date: 24 MAY 2017 11:07:33

## Middle Channel / QPSK



Date: 24 MAY 2017 11:09:10

## Middle Channel / 16QAM

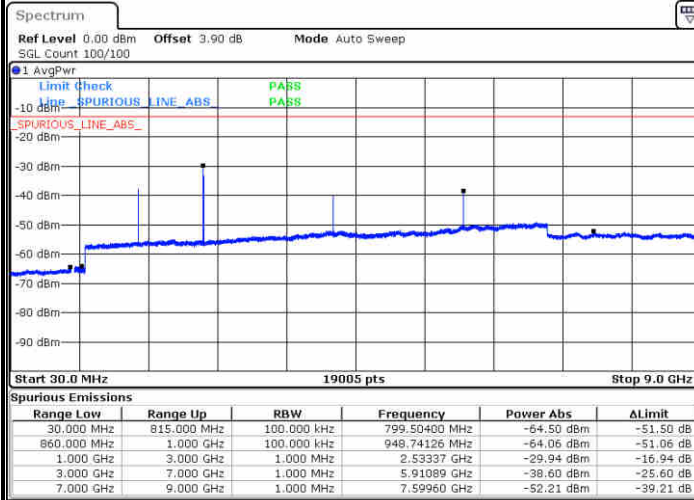


Date: 24 MAY 2017 11:10:05



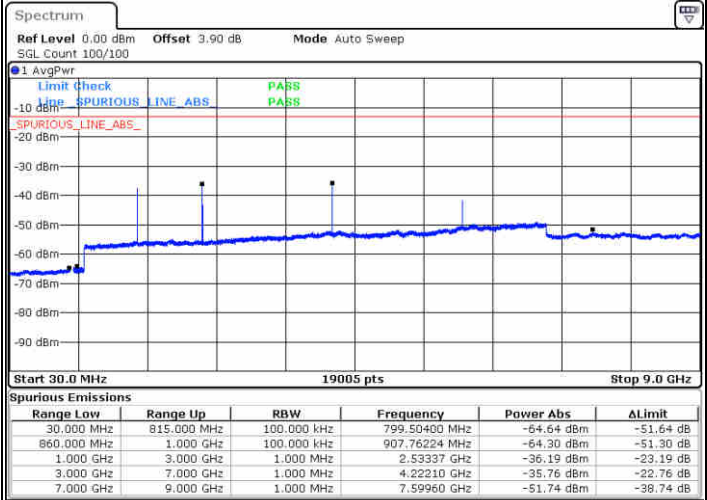
## LTE Band 5 / 5MHz

## Highest Channel / QPSK



Date: 24 MAY 2017 11:18:15

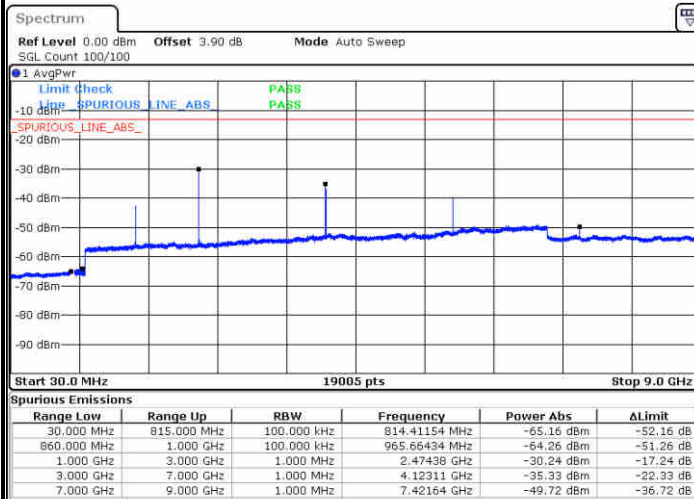
## Highest Channel / 16QAM



Date: 24 MAY 2017 11:19:10

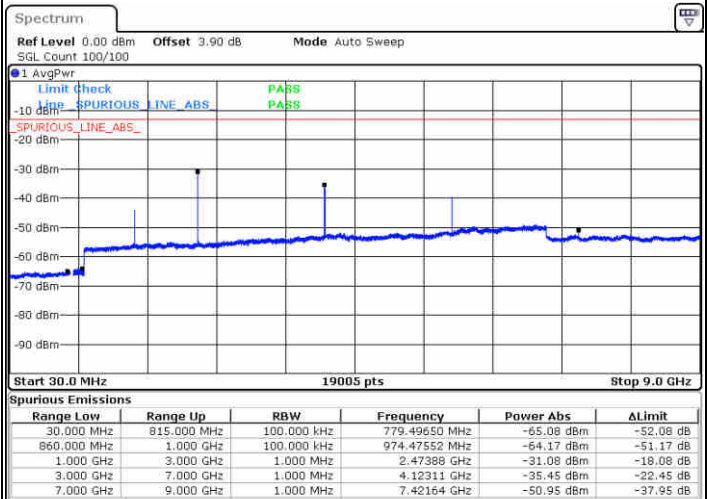
## LTE Band 5 / 10MHz

## Lowest Channel / QPSK



Date: 24 MAY 2017 11:27:19

## Lowest Channel / 16QAM

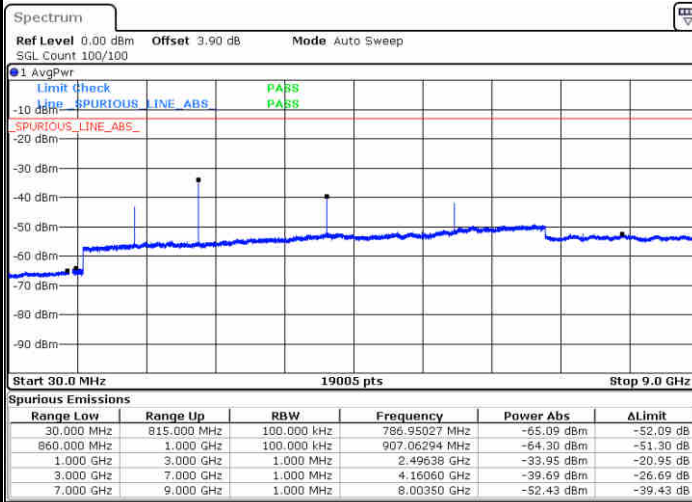


Date: 24 MAY 2017 11:28:14



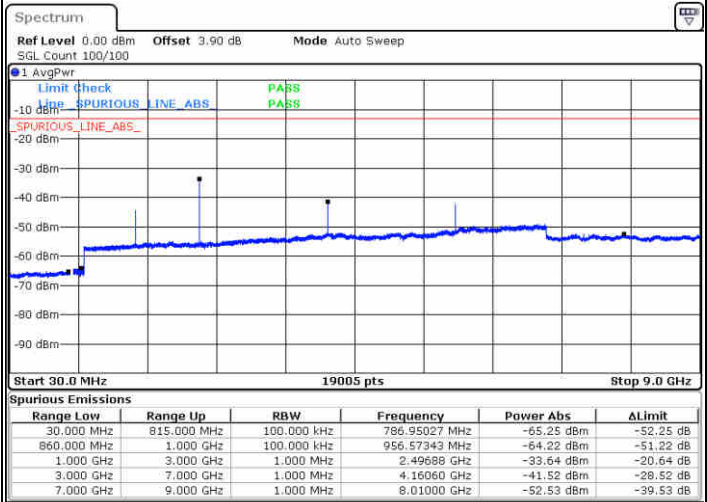
## LTE Band 5 / 10MHz

## Middle Channel / QPSK



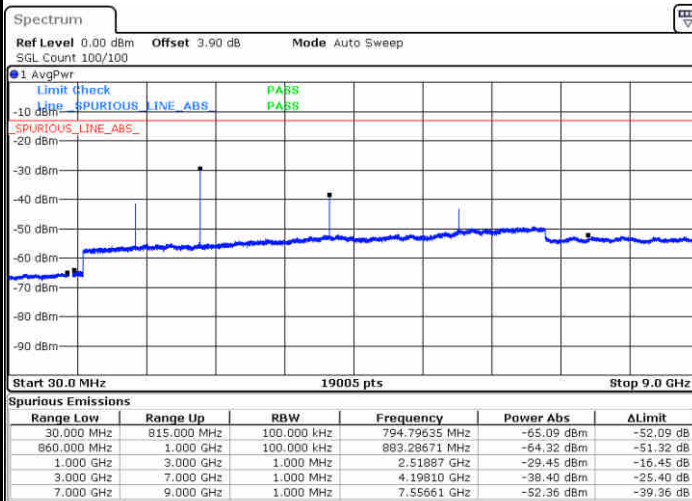
Date: 24 MAY 2017 11:29:51

## Middle Channel / 16QAM



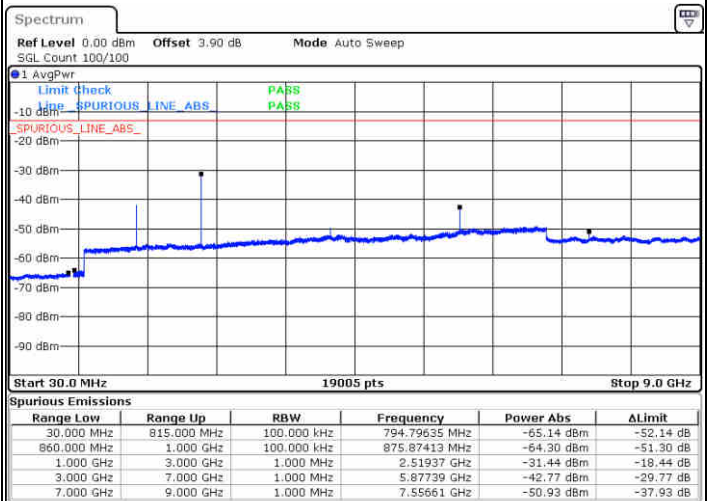
Date: 24 MAY 2017 11:30:46

## Highest Channel / QPSK



Date: 24 MAY 2017 11:38:56

## Highest Channel / 16QAM

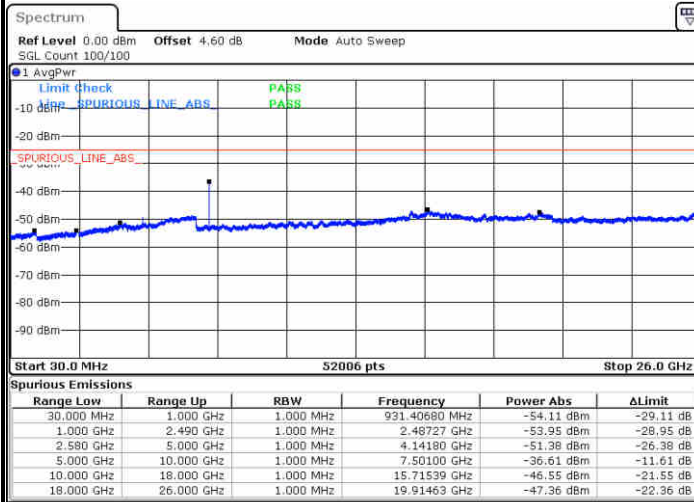


Date: 24 MAY 2017 11:39:51



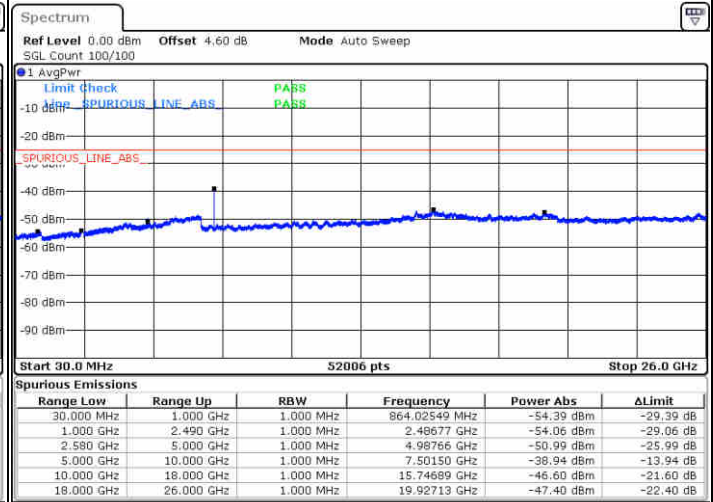
## LTE Band 7 / 5MHz

## Lowest Channel / QPSK



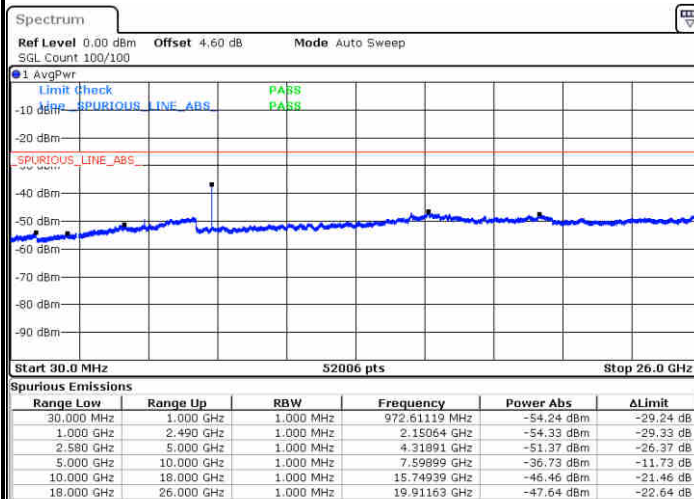
Date: 25 MAY 2017 09:50:02

## Lowest Channel / 16QAM



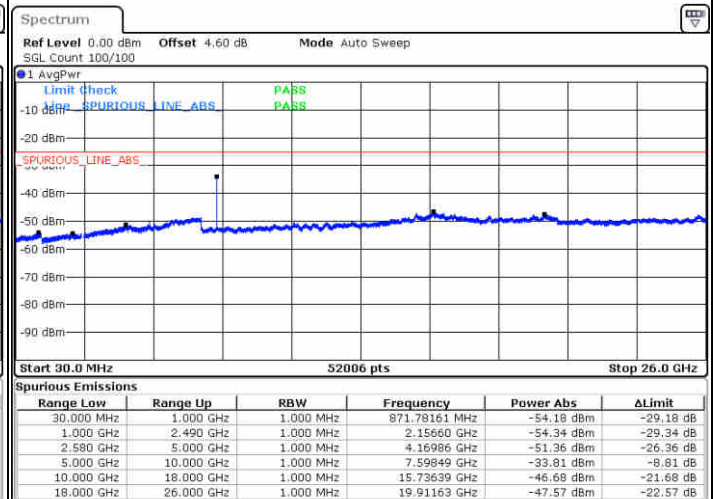
Date: 25 MAY 2017 09:50:57

## Middle Channel / QPSK



Date: 25 MAY 2017 09:52:46

## Middle Channel / 16QAM

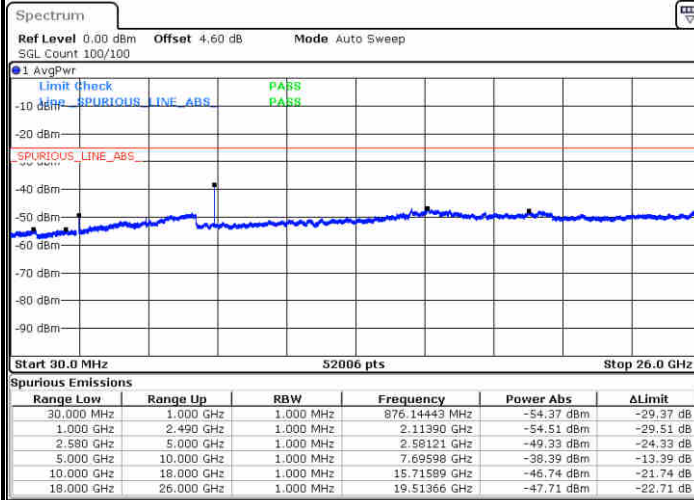


Date: 25 MAY 2017 09:51:51



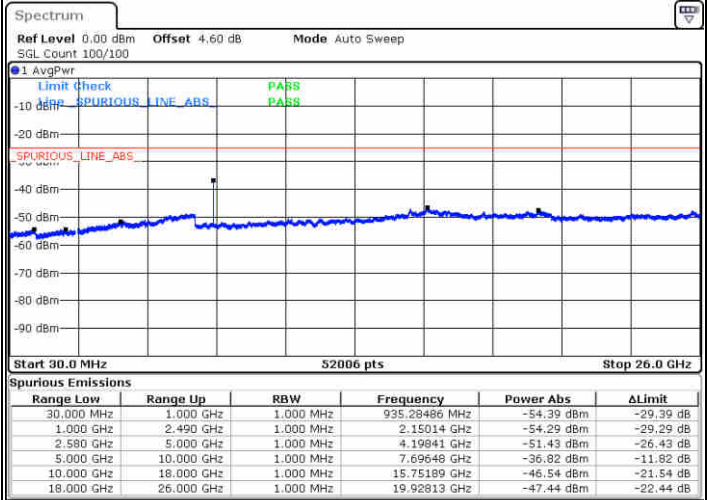
## LTE Band 7 / 5MHz

## Highest Channel / QPSK



Date: 25 MAY 2017 09:53:41

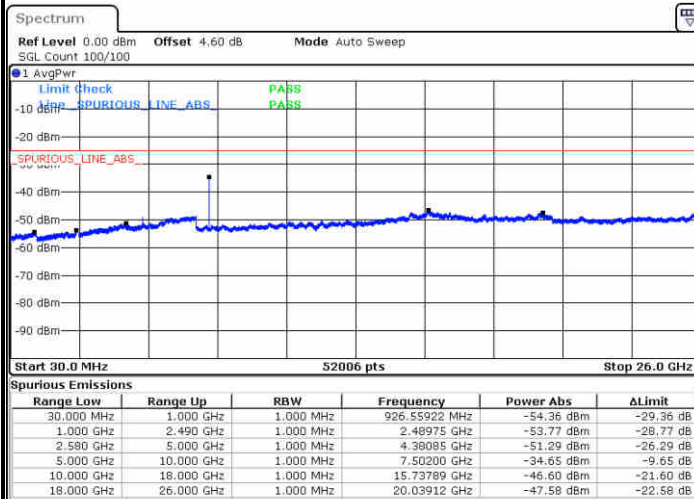
## Highest Channel / 16QAM



Date: 25 MAY 2017 09:54:35

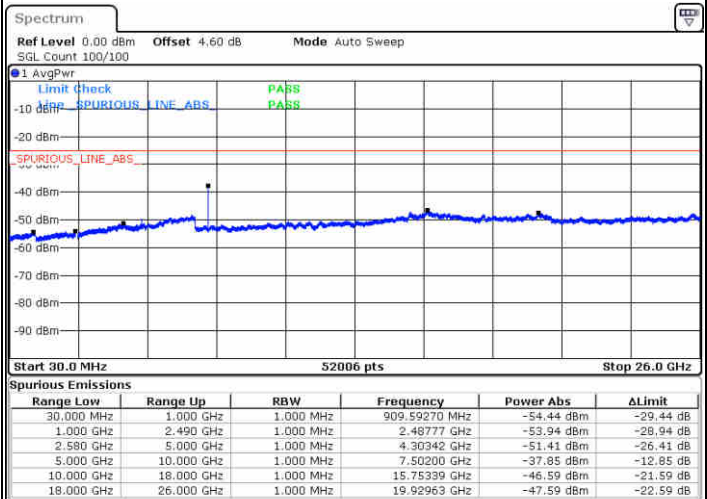
## LTE Band 7 / 10MHz

## Lowest Channel / QPSK



Date: 25 MAY 2017 10:06:44

## Lowest Channel / 16QAM

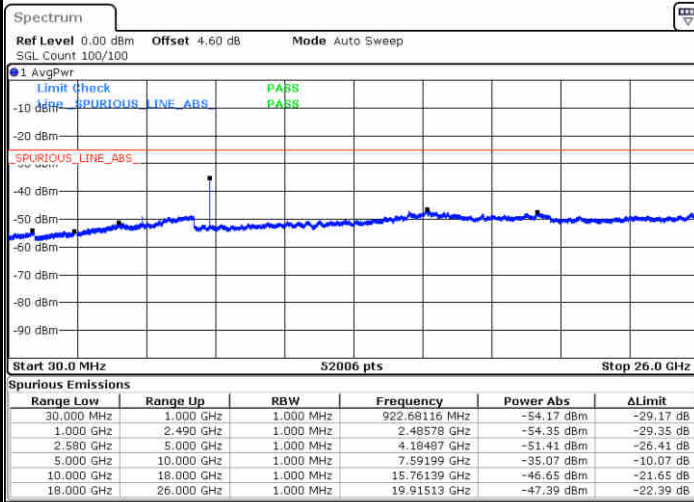


Date: 25 MAY 2017 10:07:39



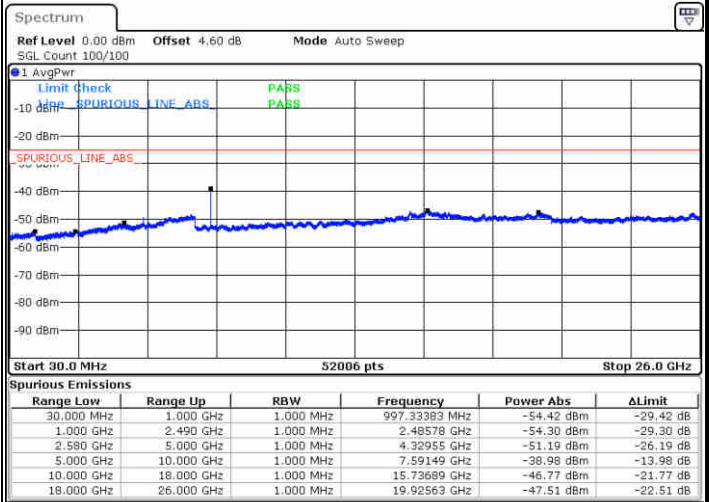
## LTE Band 7 / 10MHz

## Middle Channel / QPSK



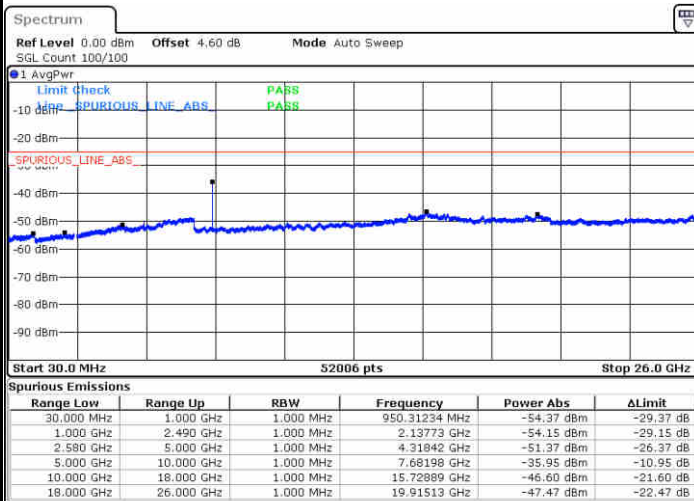
Date: 25 MAY 2017 10 09 28

## Middle Channel / 16QAM



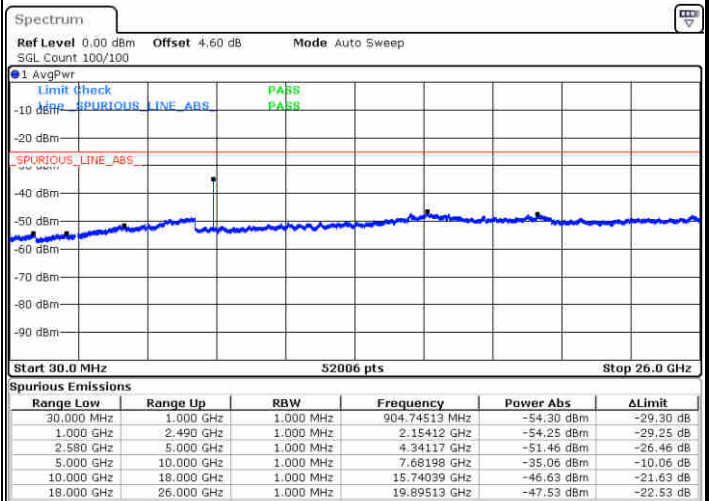
Date: 25 MAY 2017 10 08 34

## Highest Channel / QPSK



Date: 25 MAY 2017 10 10 23

## Highest Channel / 16QAM

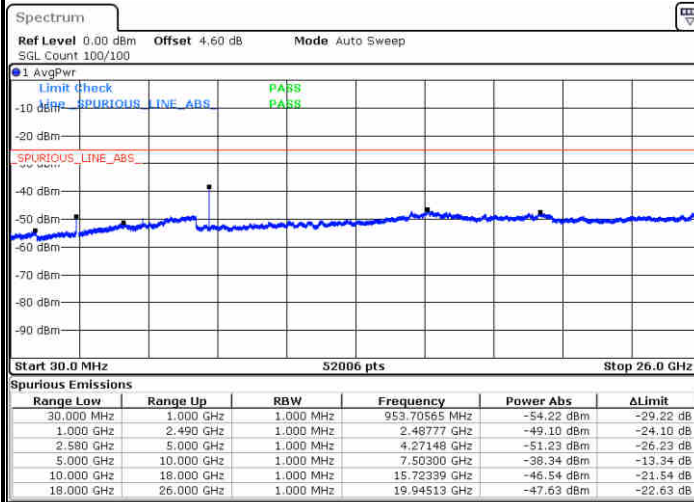


Date: 25 MAY 2017 10 11 17



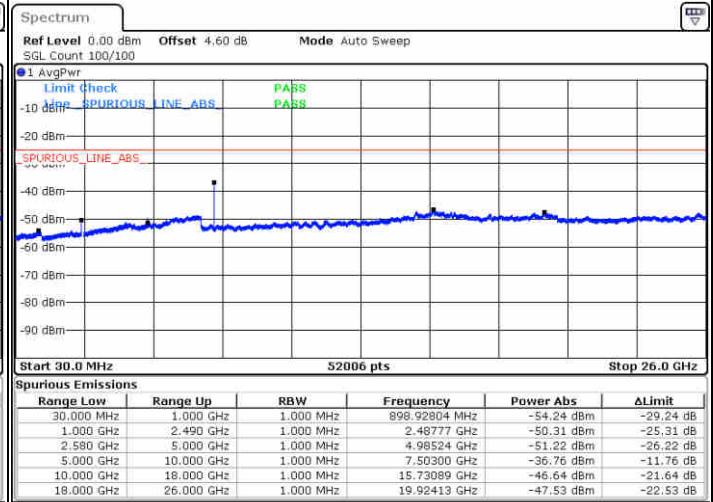
## LTE Band 7 / 15MHz

## Lowest Channel / QPSK



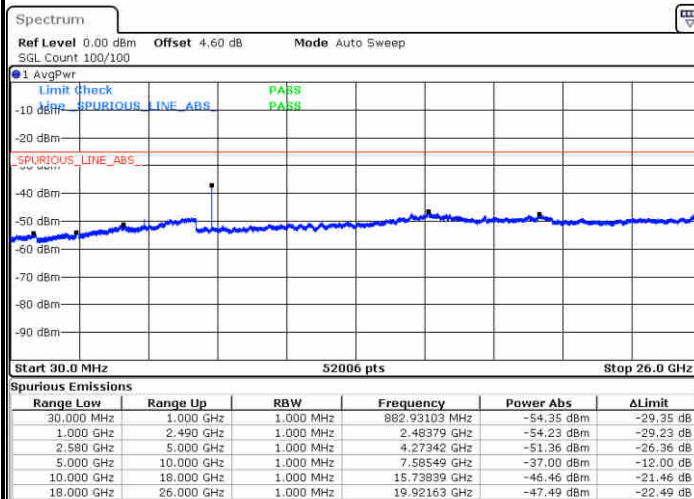
Date: 25 MAY 2017 10:23:27

## Lowest Channel / 16QAM



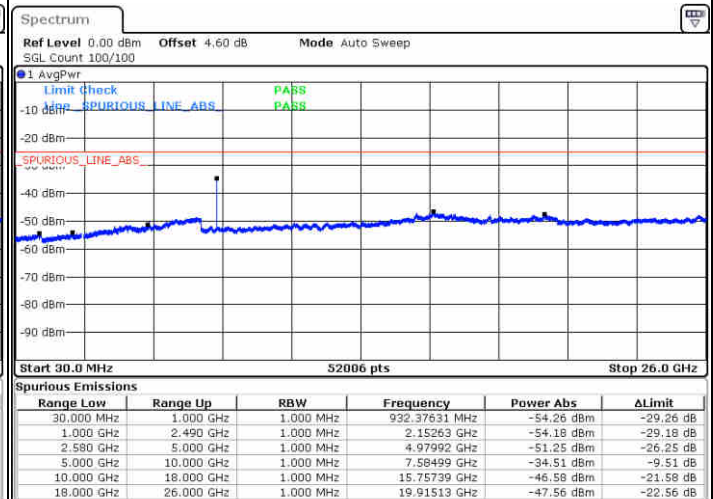
Date: 25 MAY 2017 10:24:21

## Middle Channel / QPSK



Date: 25 MAY 2017 10:26:10

## Middle Channel / 16QAM

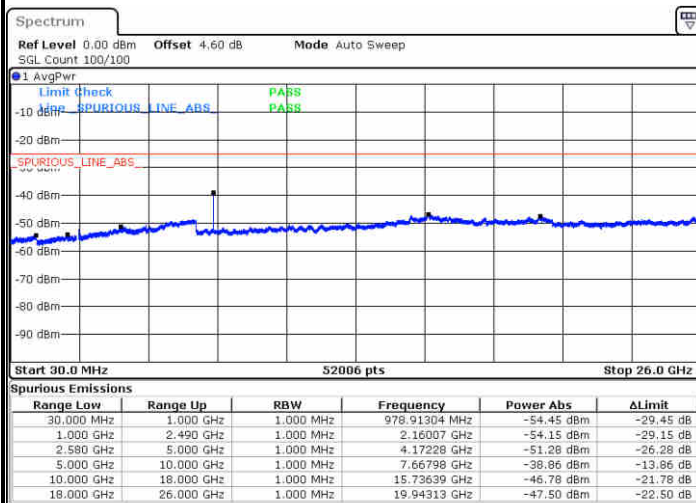


Date: 25 MAY 2017 10:25:16



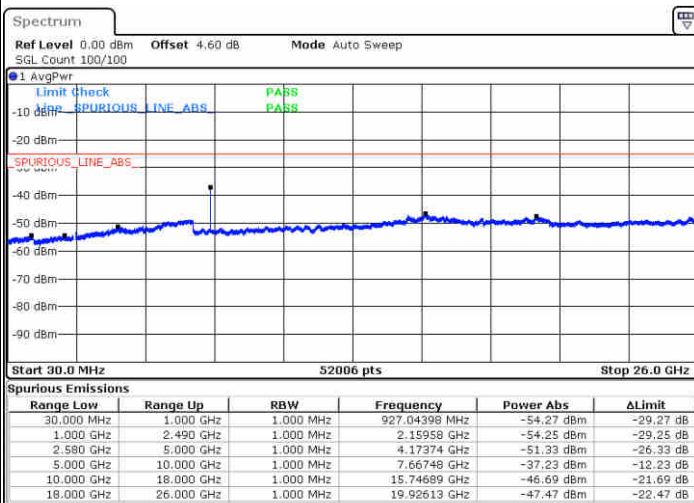
## LTE Band7 / 15MHz

## Highest Channel / QPSK



Date: 25 MAY 2017 10:27:05

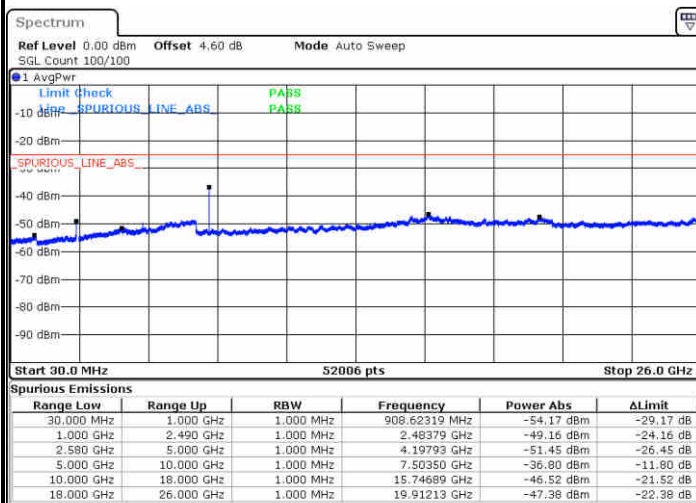
## Highest Channel / 16QAM



Date: 25 MAY 2017 10:28:00

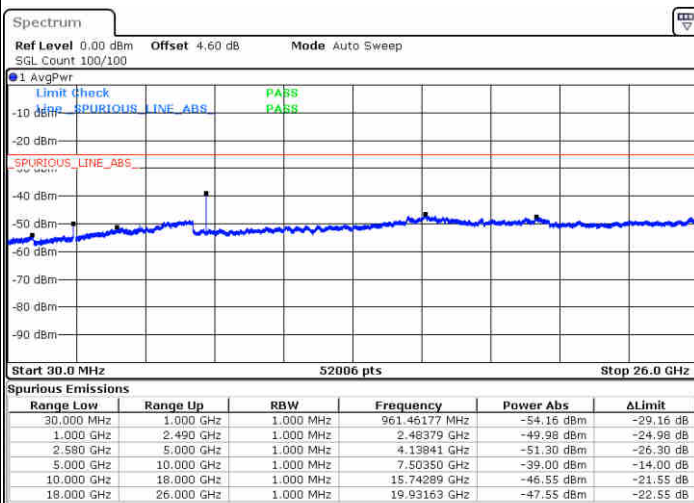
## LTE Band 7 / 20MHz

## Lowest Channel / QPSK



Date: 25 MAY 2017 10:40:09

## Lowest Channel / 16QAM

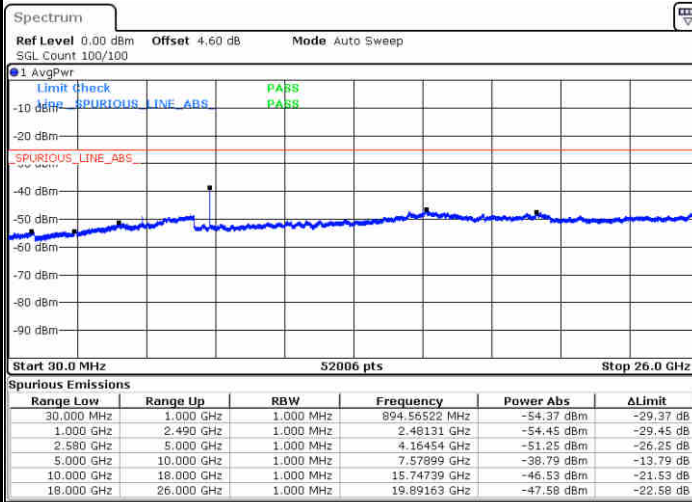


Date: 25 MAY 2017 10:41:04



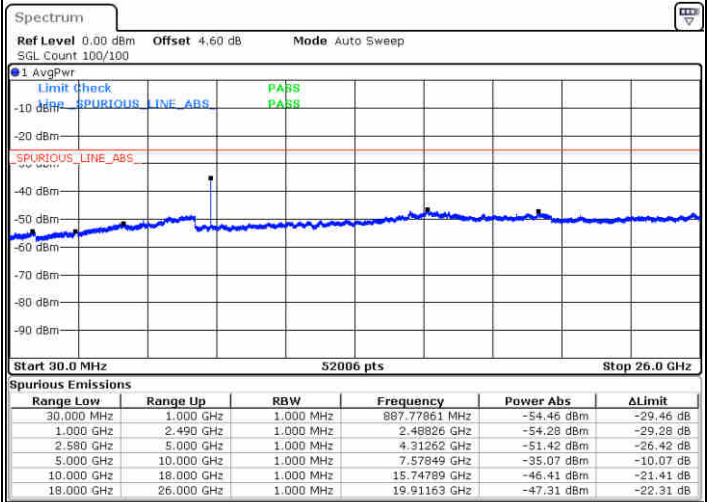
## LTE Band 7 / 20MHz

## Middle Channel / QPSK



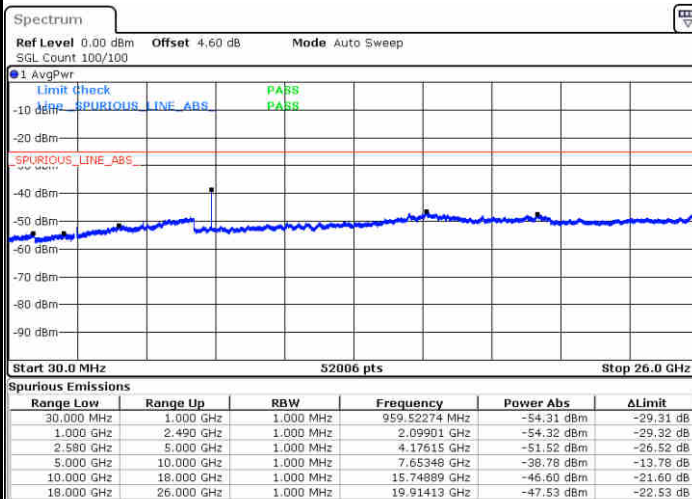
Date: 25 MAY 2017 10:42:53

## Middle Channel / 16QAM



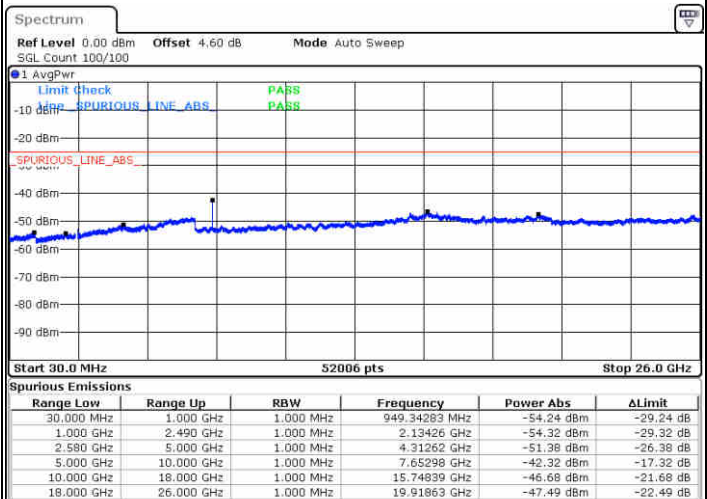
Date: 25 MAY 2017 10:41:59

## Highest Channel / QPSK



Date: 25 MAY 2017 10:43:48

## Highest Channel / 16QAM

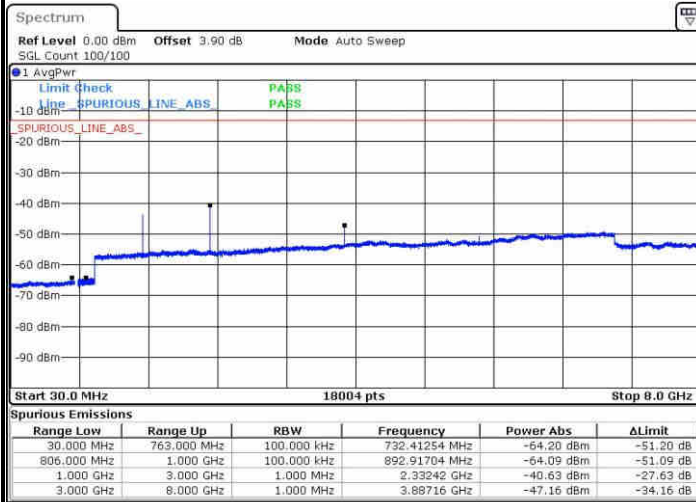


Date: 25 MAY 2017 10:44:42



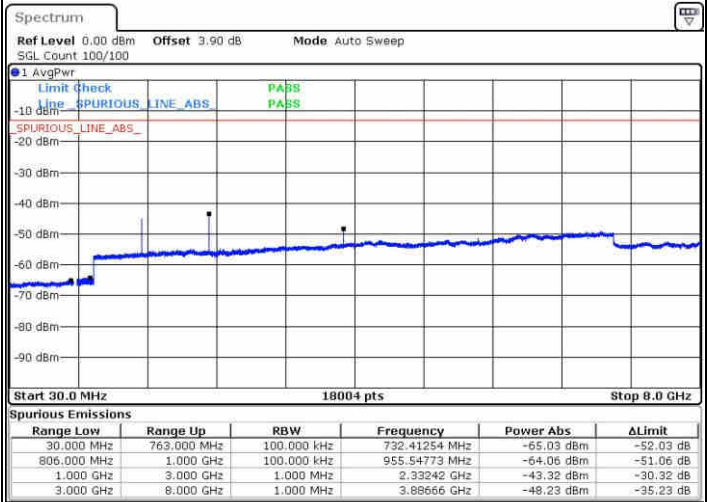
## LTE Band 13 / 5MHz

## Lowest Channel / QPSK



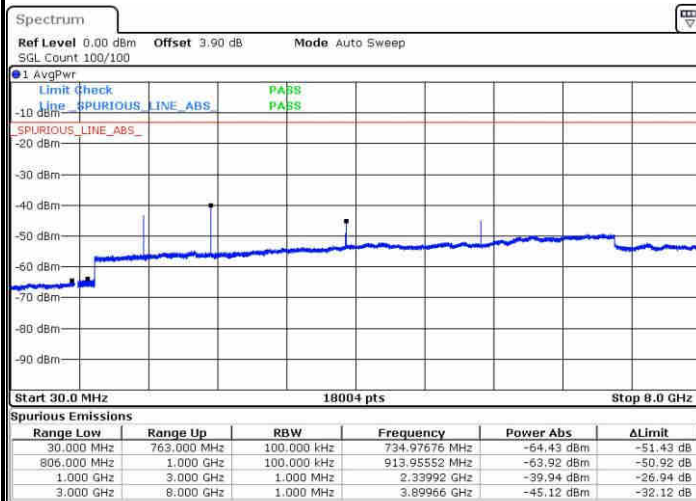
Date: 24 MAY 2017 22:24:45

## Lowest Channel / 16QAM



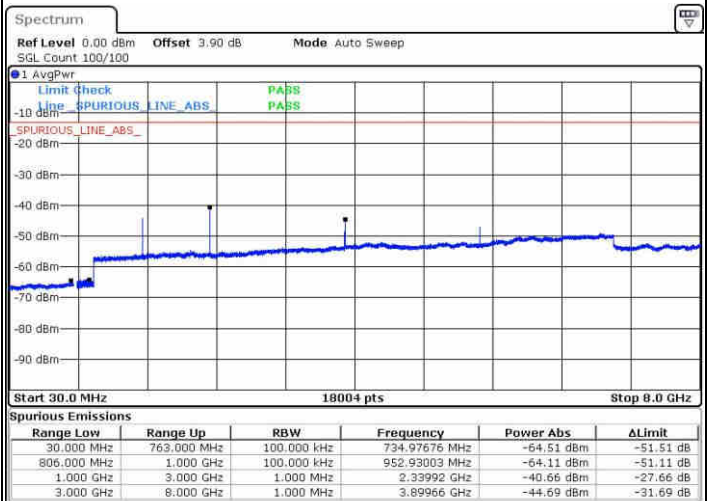
Date: 24 MAY 2017 22:23:49

## Middle Channel / QPSK



Date: 24 MAY 2017 22:25:29

## Middle Channel / 16QAM

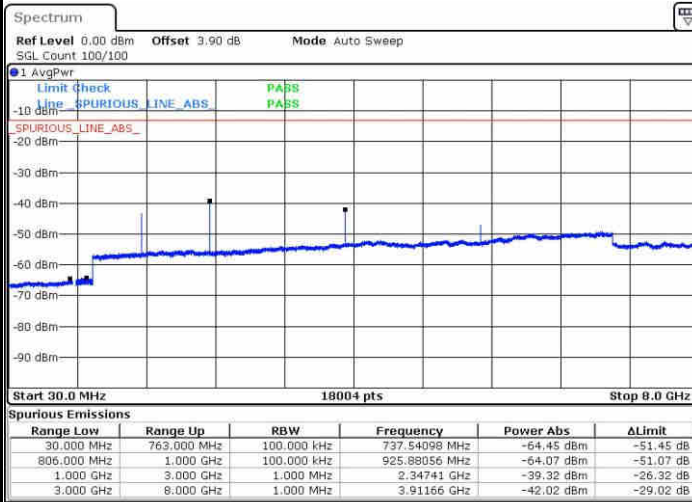


Date: 24 MAY 2017 22:25:59



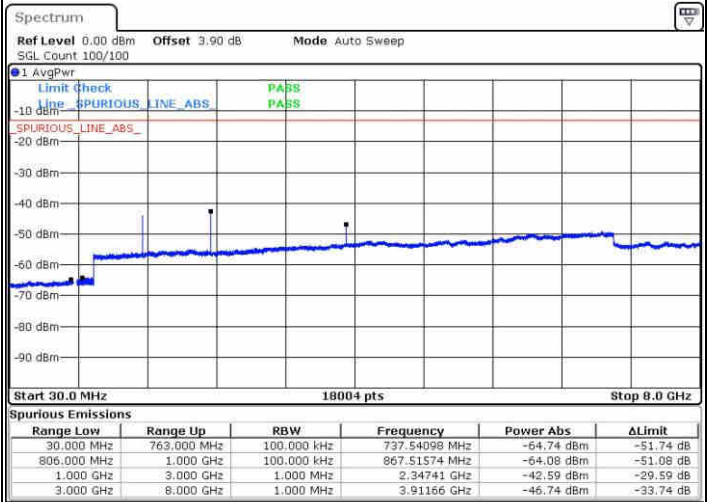
## LTE Band 13 / 5MHz

## Highest Channel / QPSK



Date: 24 MAY 2017 22:34:55

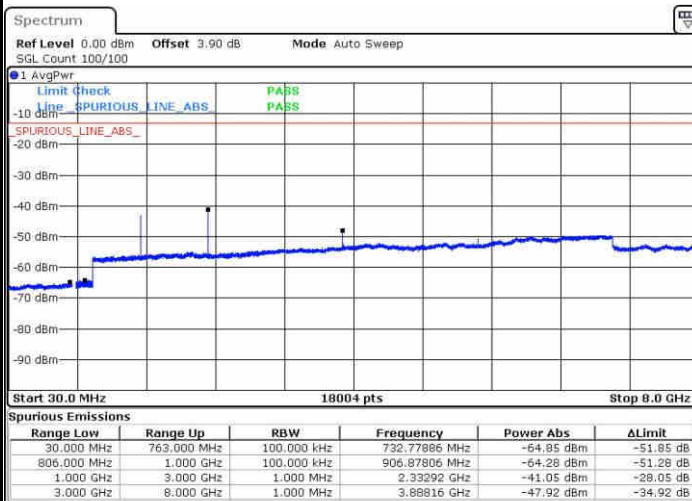
## Highest Channel / 16QAM



Date: 24 MAY 2017 22:34:27

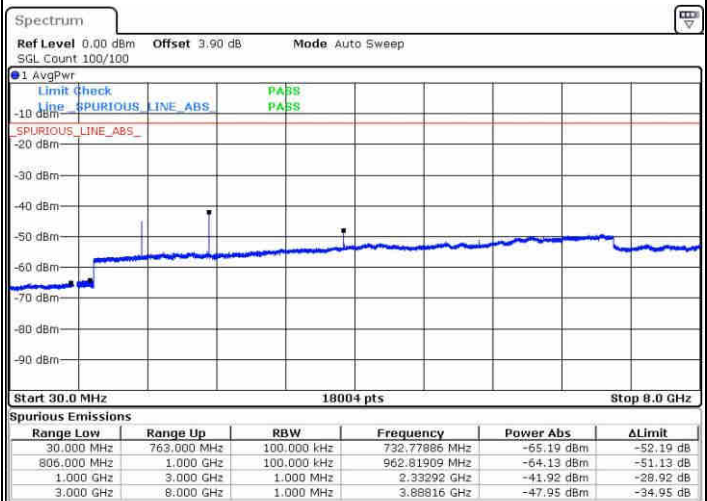
## LTE Band 13 / 10MHz

## Middle Channel / QPSK



Date: 24 MAY 2017 22:50:30

## Middle Channel / 16QAM

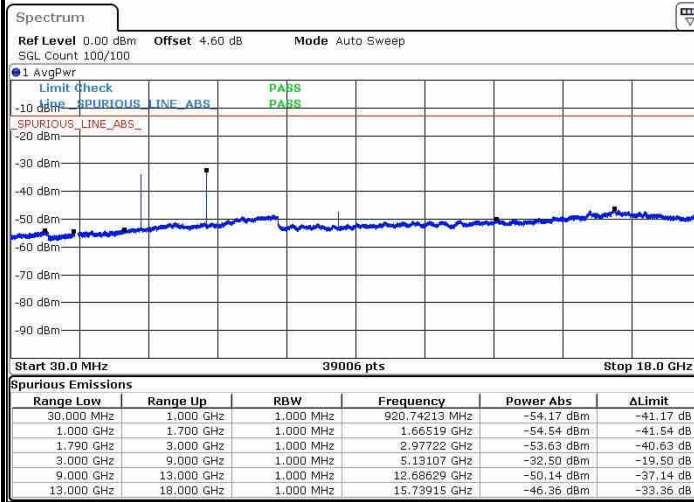


Date: 24 MAY 2017 22:50:04



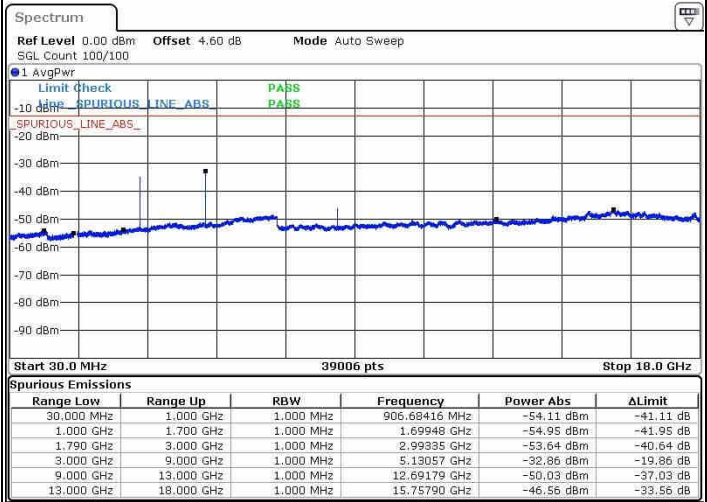
## LTE Band 66 / 1.4MHz

## Lowest Channel / QPSK



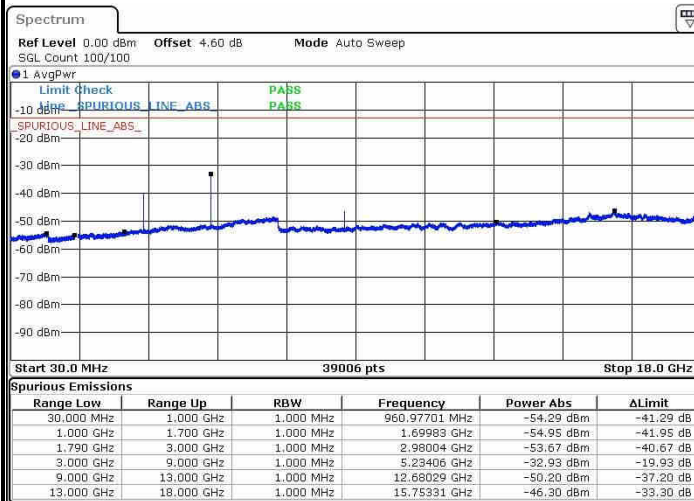
Date: 12 JUN 2017 15:18:01

## Lowest Channel / 16QAM



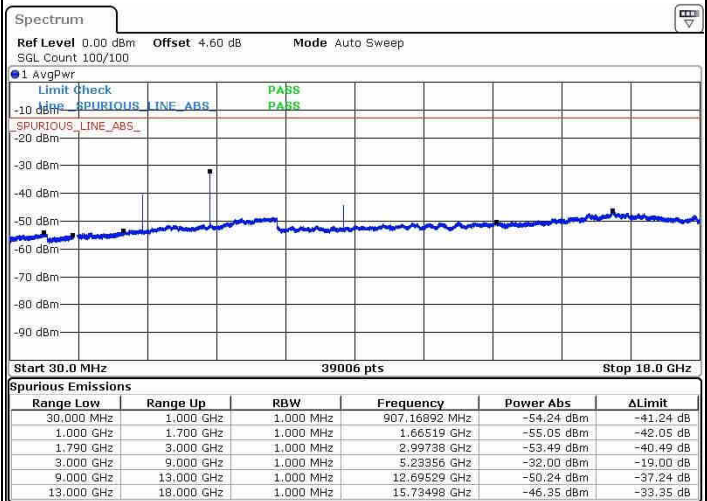
Date: 12 JUN 2017 15:17:13

## Middle Channel / QPSK



Date: 12 JUN 2017 15:19:03

## Middle Channel / 16QAM

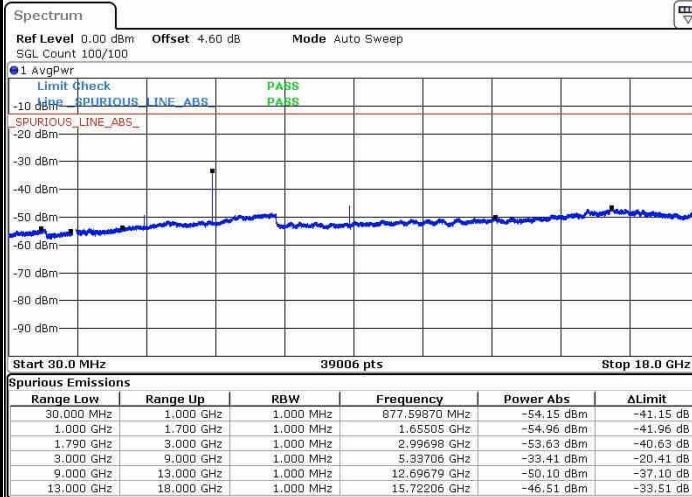


Date: 12 JUN 2017 15:19:51



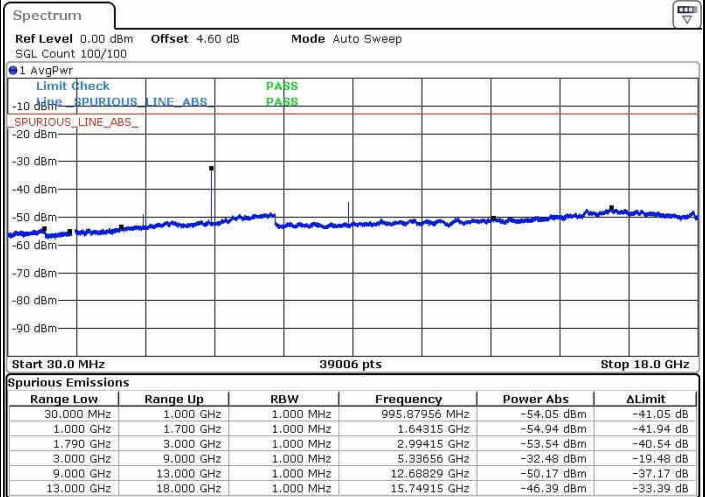
## LTE Band 66 / 1.4MHz

## Highest Channel / QPSK



Date: 12 JUN 2017 15:21:43

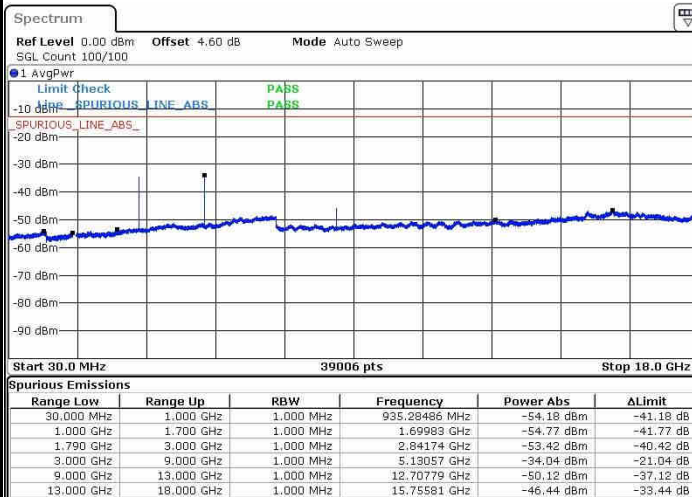
## Highest Channel / 16QAM



Date: 12 JUN 2017 15:20:55

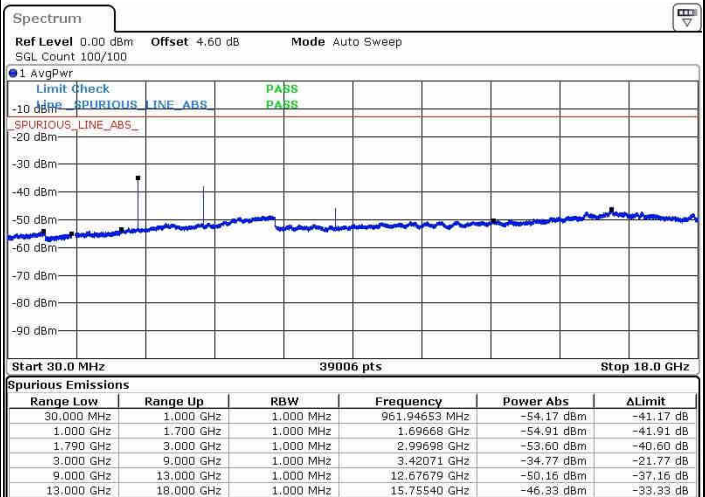
## LTE Band 66 / 3MHz

## Lowest Channel / QPSK



Date: 12 JUN 2017 15:23:34

## Lowest Channel / 16QAM

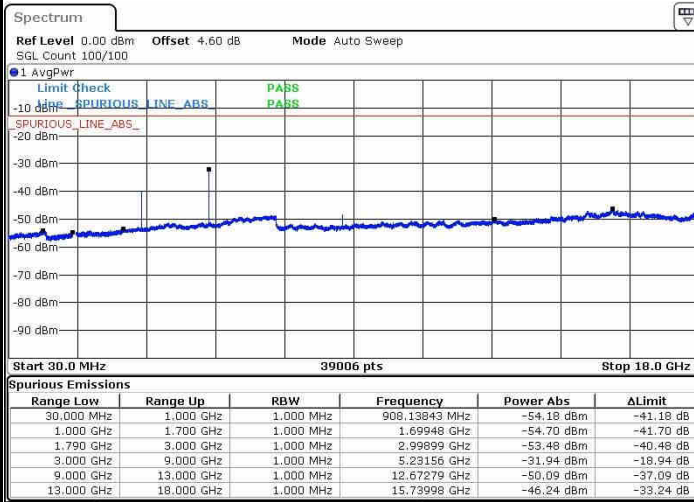


Date: 12 JUN 2017 15:24:19



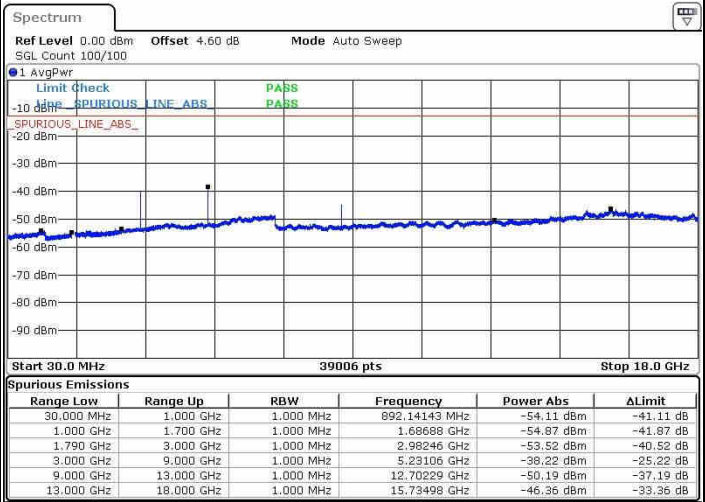
## LTE Band 66 / 3MHz

## Middle Channel / QPSK



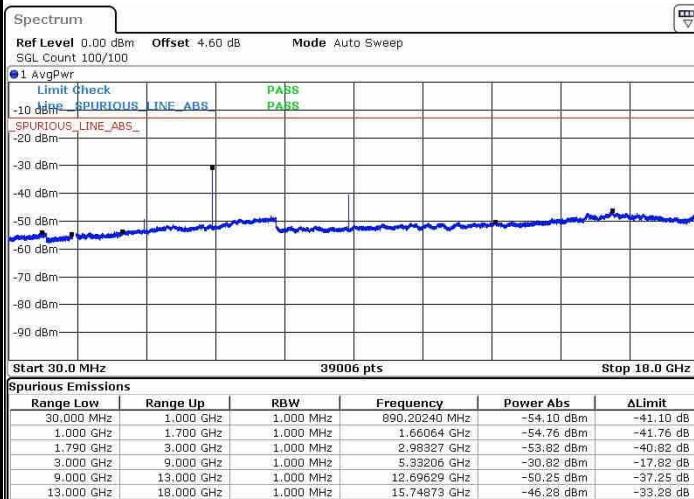
Date: 12 JUN 2017 15:25:51

## Middle Channel / 16QAM



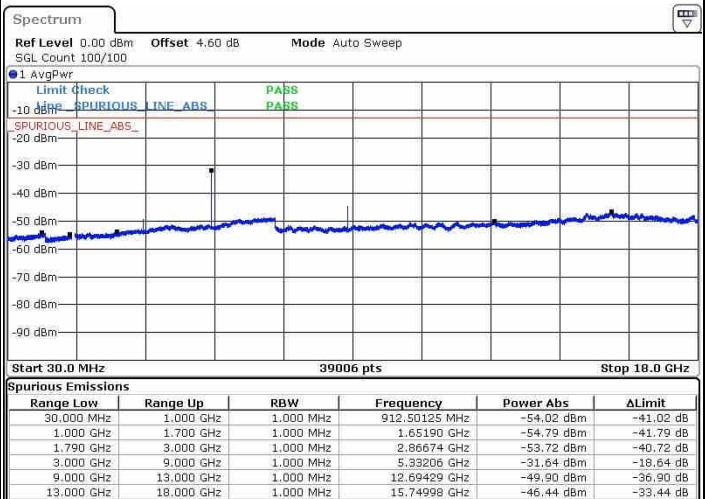
Date: 12 JUN 2017 15:25:08

## Highest Channel / QPSK



Date: 12 JUN 2017 15:27:05

## Highest Channel / 16QAM

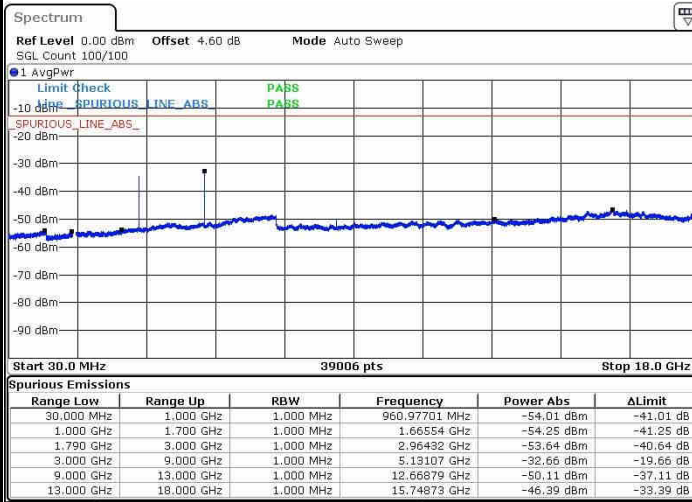


Date: 12 JUN 2017 15:27:50



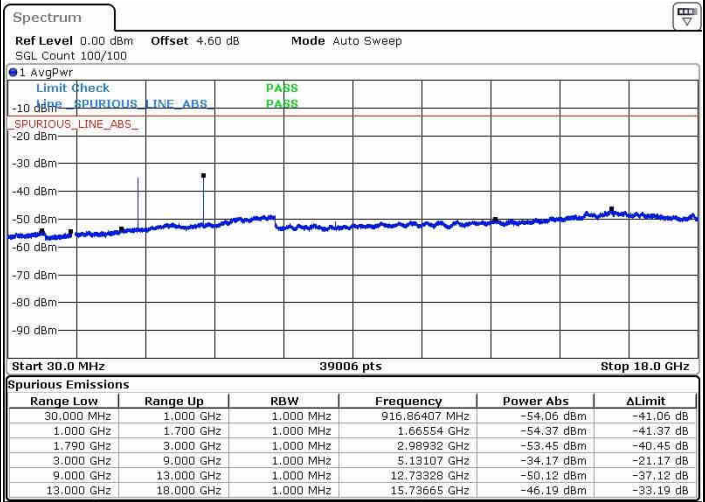
## LTE Band 66 / 5MHz

## Lowest Channel / QPSK



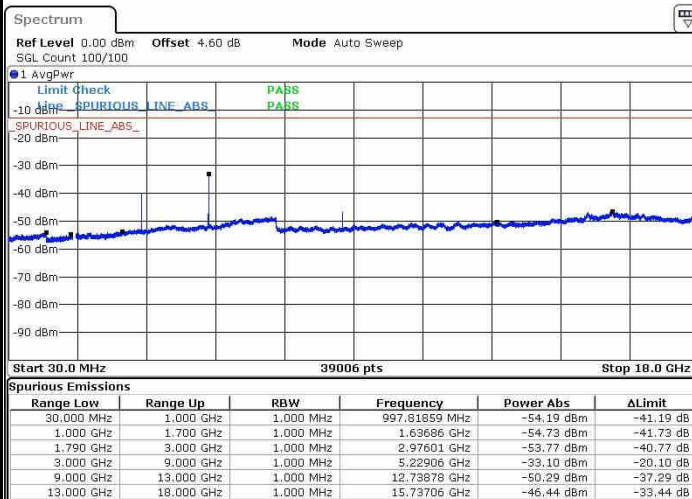
Date: 12 JUN 2017 15:30:35

## Lowest Channel / 16QAM



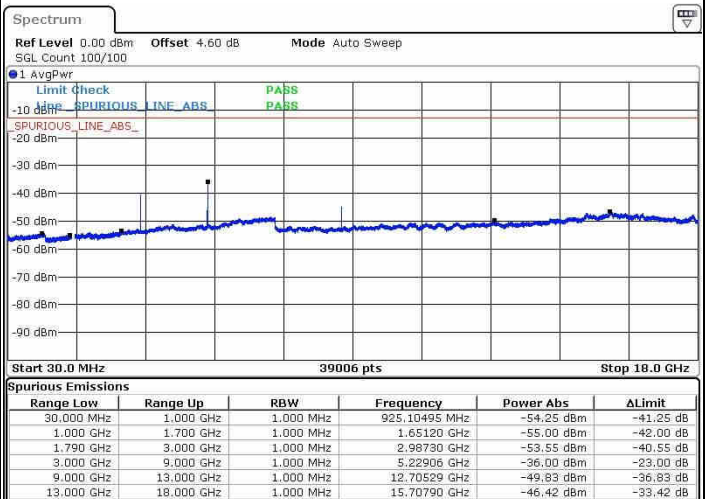
Date: 12 JUN 2017 15:29:52

## Middle Channel / QPSK



Date: 12 JUN 2017 15:31:28

## Middle Channel / 16QAM

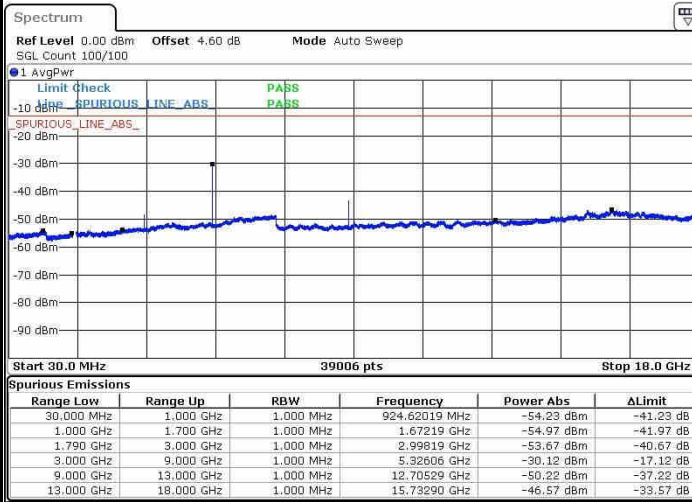


Date: 12 JUN 2017 15:35:52



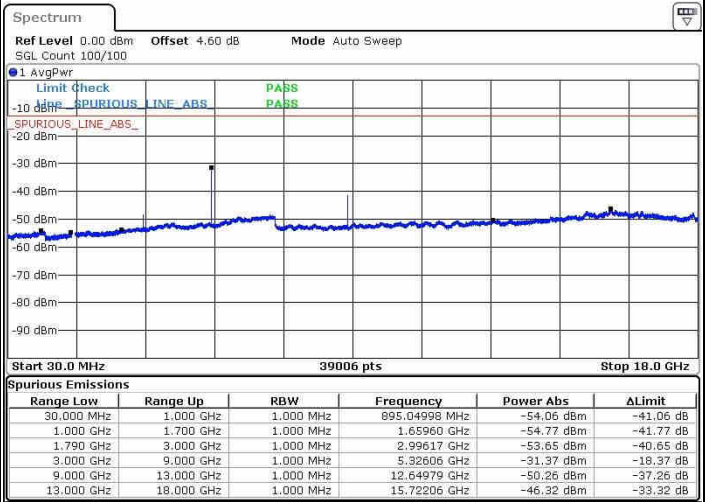
## LTE Band 66 / 5MHz

## Highest Channel / QPSK



Date: 12 JUN 2017 15:45:04

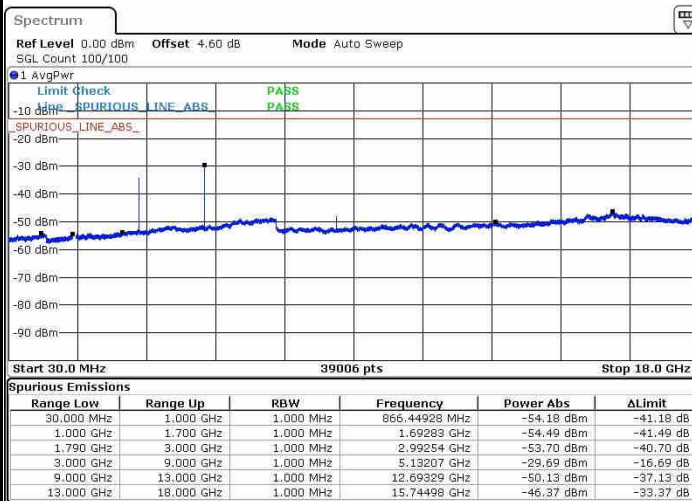
## Highest Channel / 16QAM



Date: 12 JUN 2017 15:45:47

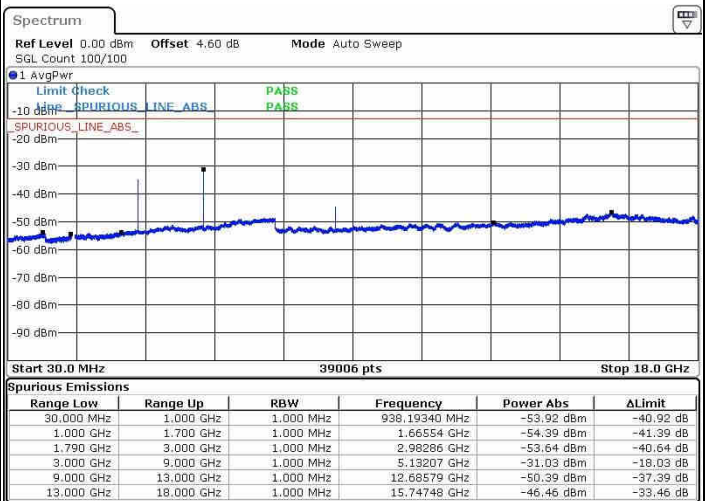
## LTE Band 66 / 10MHz

## Lowest Channel / QPSK



Date: 12 JUN 2017 15:48:26

## Lowest Channel / 16QAM

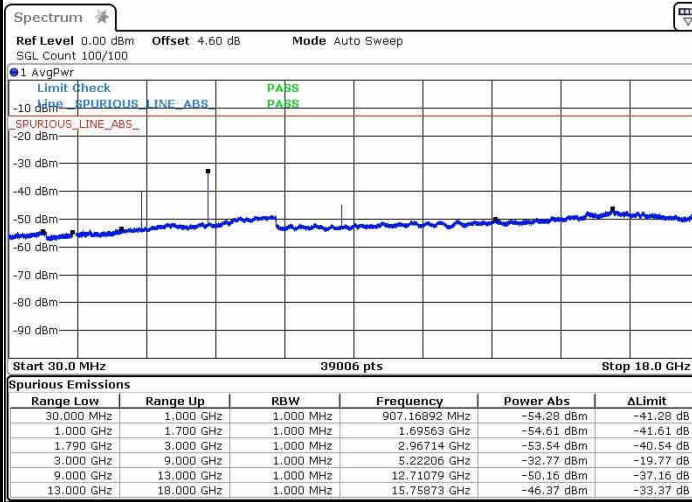


Date: 12 JUN 2017 15:47:42



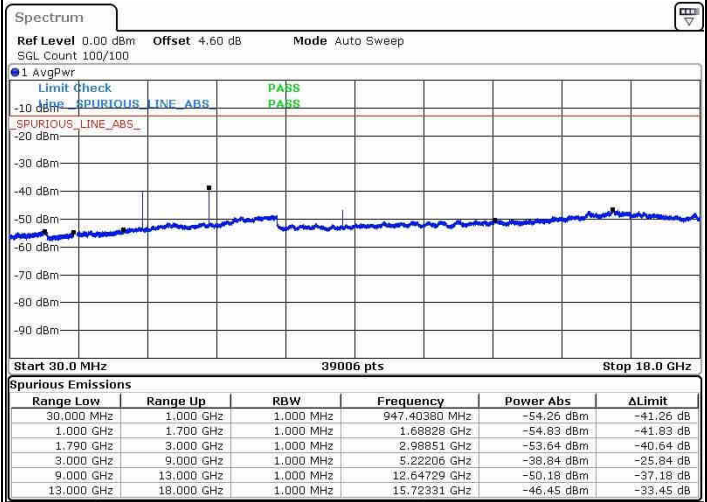
## LTE Band 66 / 10MHz

## Middle Channel / QPSK



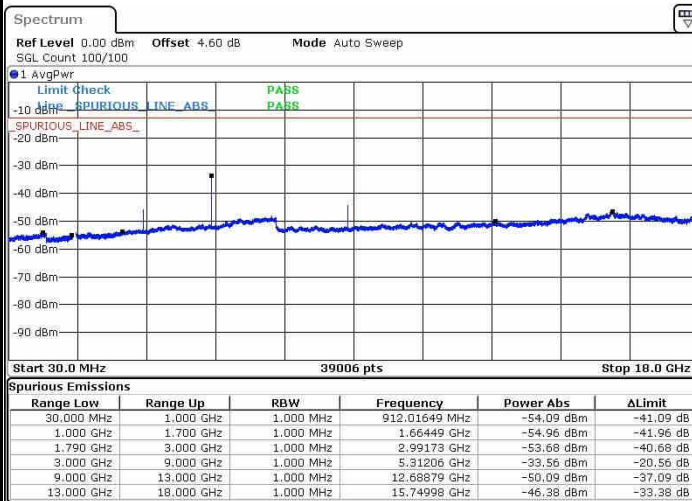
Date: 12 JUN 2017 15:49:34

## Middle Channel / 16QAM



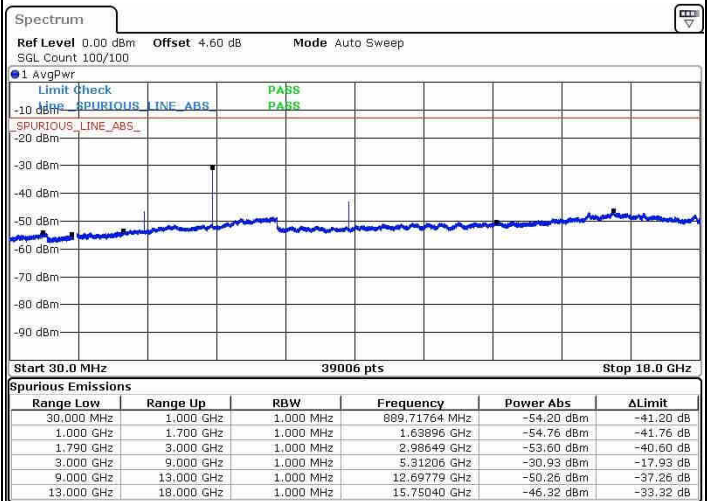
Date: 12 JUN 2017 15:50:19

## Highest Channel / QPSK



Date: 12 JUN 2017 15:52:06

## Highest Channel / 16QAM

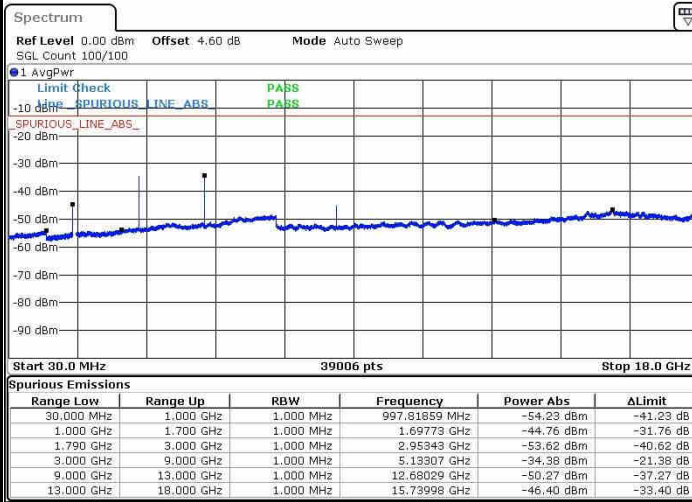


Date: 12 JUN 2017 15:51:24



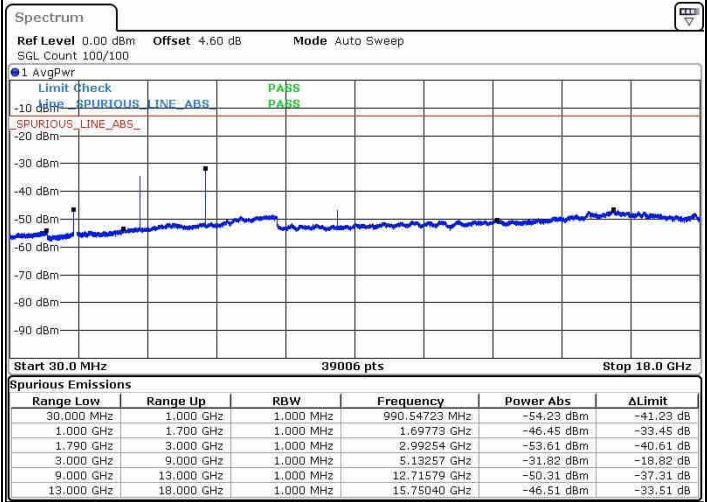
## LTE Band 66 / 15MHz

## Lowest Channel / QPSK



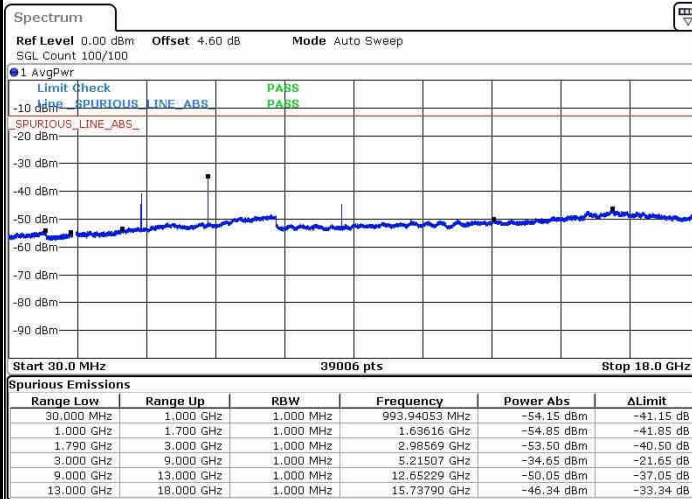
Date: 12 JUN 2017 15:53:52

## Lowest Channel / 16QAM



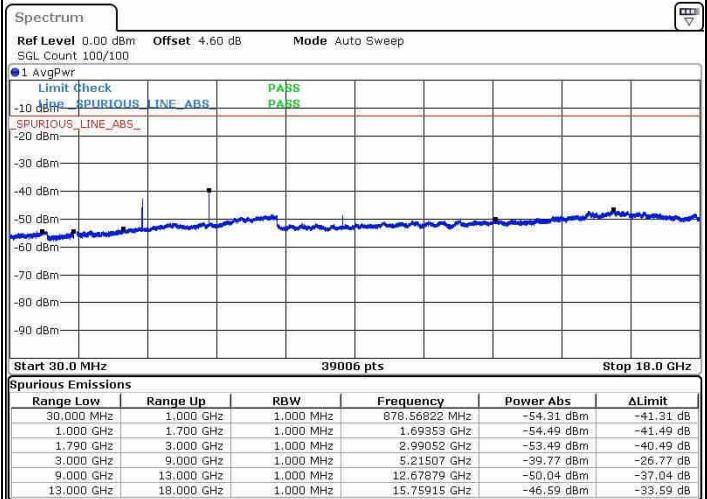
Date: 12 JUN 2017 15:54:34

## Middle Channel / QPSK



Date: 12 JUN 2017 15:56:22

## Middle Channel / 16QAM

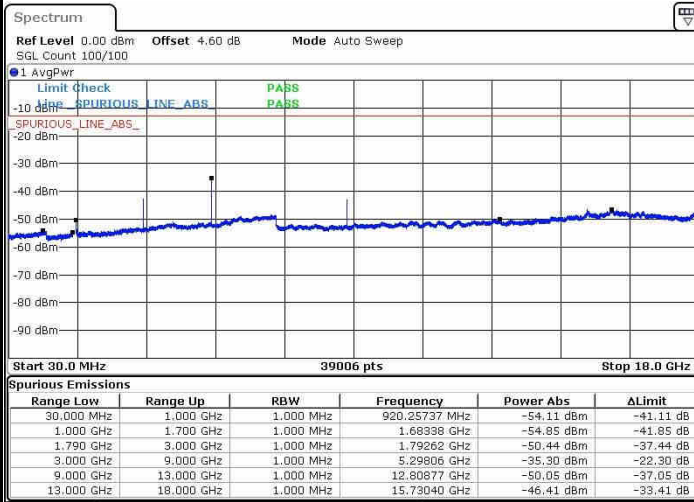


Date: 12 JUN 2017 15:55:32



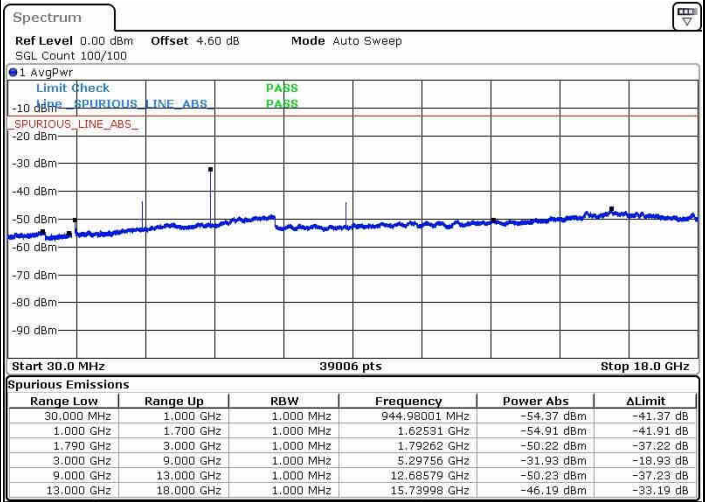
## LTE Band 66 / 15MHz

## Highest Channel / QPSK



Date: 12 JUN 2017 15:57:15

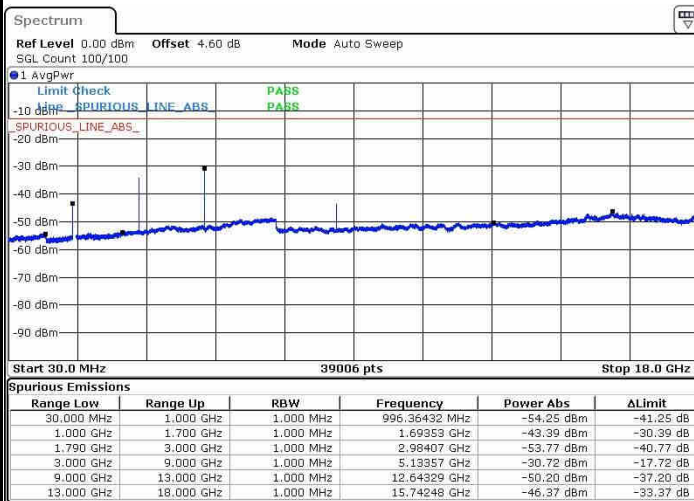
## Highest Channel / 16QAM



Date: 12 JUN 2017 15:58:04

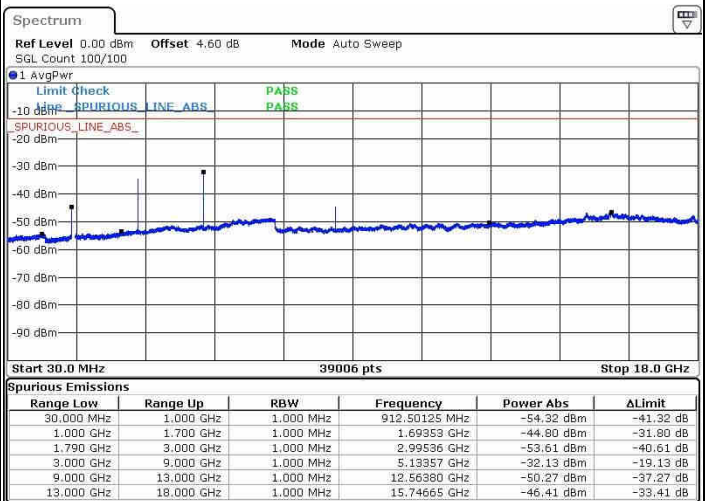
## LTE Band 66 / 20MHz

## Lowest Channel / QPSK



Date: 12 JUN 2017 15:09:59

## Lowest Channel / 16QAM

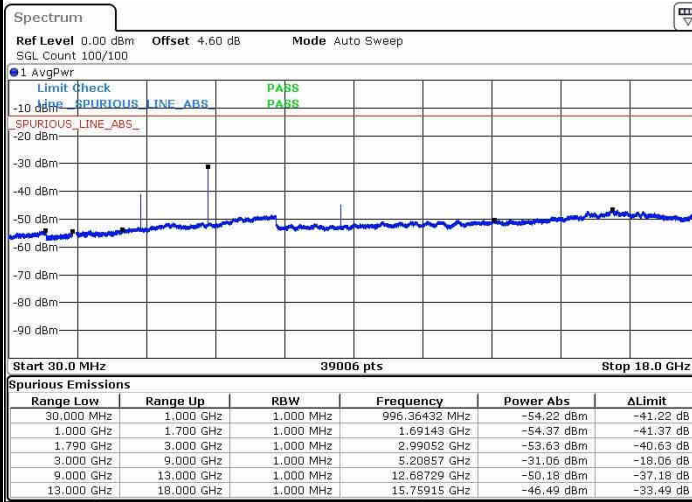


Date: 12 JUN 2017 15:10:41



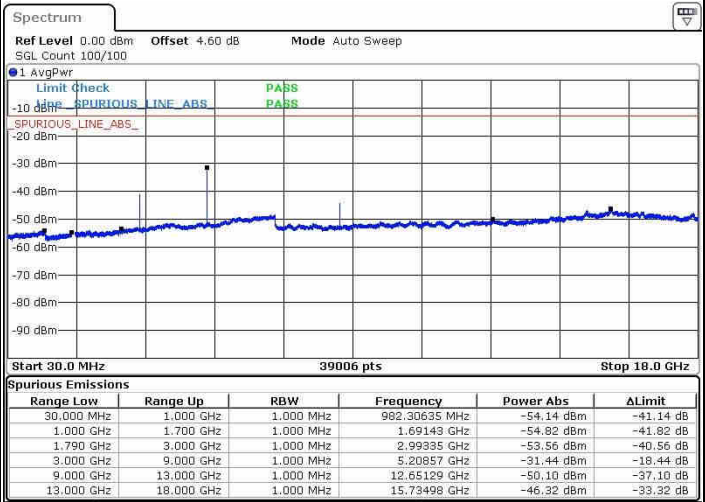
## LTE Band 66 / 20MHz

## Middle Channel / QPSK



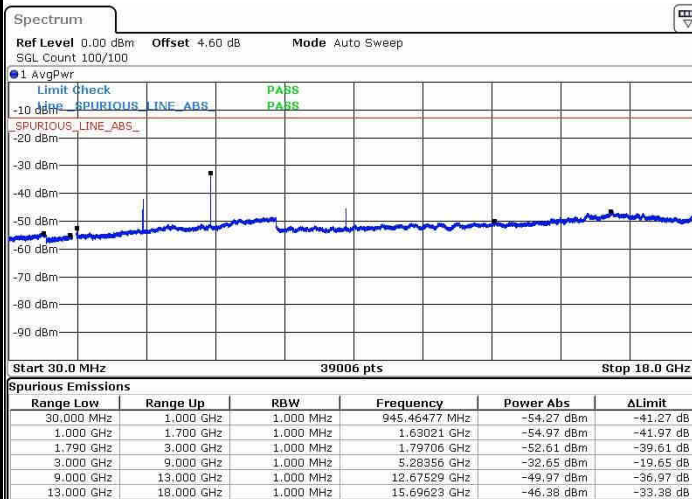
Date: 12 JUN 2017 15:12:21

## Middle Channel / 16QAM



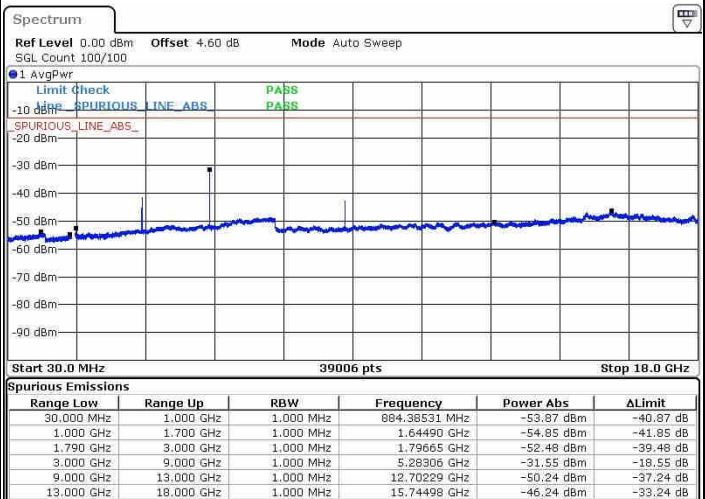
Date: 12 JUN 2017 15:11:36

## Highest Channel / QPSK



Date: 12 JUN 2017 15:14:02

## Highest Channel / 16QAM



Date: 12 JUN 2017 15:14:46

**Frequency Stability**

| Test Conditions     |                   | LTE Band 2 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|------------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                           | Note 2. |
|                     |                   | Deviation<br>(ppm)                 | Result  |
| 50                  | Normal Voltage    | 0.0014                             | PASS    |
| 40                  | Normal Voltage    | 0.0005                             |         |
| 30                  | Normal Voltage    | 0.0005                             |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                             |         |
| 10                  | Normal Voltage    | 0.0009                             |         |
| 0                   | Normal Voltage    | 0.0004                             |         |
| -10                 | Normal Voltage    | 0.0003                             |         |
| -20                 | Normal Voltage    | 0.0008                             |         |
| -30                 | Normal Voltage    | 0.0006                             |         |
| 20                  | Maximum Voltage   | 0.0012                             |         |
| 20                  | Normal Voltage    | 0.0002                             |         |
| 20                  | Battery End Point | 0.0010                             |         |

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



| Test Conditions     |                   | LTE Band 4 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|------------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                           | Note 2. |
|                     |                   | Deviation<br>(ppm)                 | Result  |
| 50                  | Normal Voltage    | 0.0009                             | PASS    |
| 40                  | Normal Voltage    | 0.0006                             |         |
| 30                  | Normal Voltage    | 0.0019                             |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                             |         |
| 10                  | Normal Voltage    | 0.0003                             |         |
| 0                   | Normal Voltage    | 0.0024                             |         |
| -10                 | Normal Voltage    | 0.0020                             |         |
| -20                 | Normal Voltage    | 0.0002                             |         |
| -30                 | Normal Voltage    | 0.0022                             |         |
| 20                  | Maximum Voltage   | 0.0001                             |         |
| 20                  | Normal Voltage    | 0.0005                             |         |
| 20                  | Battery End Point | 0.0017                             |         |

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



| Test Conditions     |                   | LTE Band 5 (QPSK) / Middle Channel | Limit  |
|---------------------|-------------------|------------------------------------|--------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                           | 2.5ppm |
|                     |                   | Deviation<br>(ppm)                 | Result |
| 50                  | Normal Voltage    | 0.0012                             | PASS   |
| 40                  | Normal Voltage    | 0.0032                             |        |
| 30                  | Normal Voltage    | 0.0005                             |        |
| 20(Ref.)            | Normal Voltage    | 0.0000                             |        |
| 10                  | Normal Voltage    | 0.0020                             |        |
| 0                   | Normal Voltage    | 0.0011                             |        |
| -10                 | Normal Voltage    | 0.0001                             |        |
| -20                 | Normal Voltage    | 0.0036                             |        |
| -30                 | Normal Voltage    | 0.0002                             |        |
| 20                  | Maximum Voltage   | 0.0027                             |        |
| 20                  | Normal Voltage    | 0.0024                             |        |
| 20                  | Battery End Point | 0.0017                             |        |



| Test Conditions     |                   | LTE Band 7 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|------------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                           | Note 2. |
|                     |                   | Deviation<br>(ppm)                 | Result  |
| 50                  | Normal Voltage    | 0.0011                             | PASS    |
| 40                  | Normal Voltage    | 0.0004                             |         |
| 30                  | Normal Voltage    | 0.0007                             |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                             |         |
| 10                  | Normal Voltage    | 0.0004                             |         |
| 0                   | Normal Voltage    | 0.0008                             |         |
| -10                 | Normal Voltage    | 0.0005                             |         |
| -20                 | Normal Voltage    | 0.0003                             |         |
| -30                 | Normal Voltage    | 0.0001                             |         |
| 20                  | Maximum Voltage   | 0.0007                             |         |
| 20                  | Normal Voltage    | 0.0004                             |         |
| 20                  | Battery End Point | 0.0005                             |         |

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



| Test Conditions     |                   | LTE Band 13 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|-------------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                            | Note 2. |
|                     |                   | Deviation<br>(ppm)                  | Result  |
| 50                  | Normal Voltage    | 0.0004                              | PASS    |
| 40                  | Normal Voltage    | 0.0028                              |         |
| 30                  | Normal Voltage    | 0.0050                              |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                              |         |
| 10                  | Normal Voltage    | 0.0054                              |         |
| 0                   | Normal Voltage    | 0.0024                              |         |
| -10                 | Normal Voltage    | 0.0077                              |         |
| -20                 | Normal Voltage    | 0.0065                              |         |
| -30                 | Normal Voltage    | 0.0082                              |         |
| 20                  | Maximum Voltage   | 0.0014                              |         |
| 20                  | Normal Voltage    | 0.0072                              |         |
| 20                  | Battery End Point | 0.0047                              |         |

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



| Test Conditions     |                   | LTE Band 66 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|-------------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                            | Note 2. |
|                     |                   | Deviation<br>(ppm)                  | Result  |
| 50                  | Normal Voltage    | 0.0038                              | PASS    |
| 40                  | Normal Voltage    | 0.0025                              |         |
| 30                  | Normal Voltage    | 0.0011                              |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                              |         |
| 10                  | Normal Voltage    | 0.0033                              |         |
| 0                   | Normal Voltage    | 0.0016                              |         |
| -10                 | Normal Voltage    | 0.0024                              |         |
| -20                 | Normal Voltage    | 0.0031                              |         |
| -30                 | Normal Voltage    | 0.0018                              |         |
| 20                  | Maximum Voltage   | 0.0045                              |         |
| 20                  | Normal Voltage    | 0.0030                              |         |
| 20                  | Battery End Point | 0.0010                              |         |

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



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

| LTE Band 2 / 1.4MHz / 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                                          | 3759              | -55.67       | -13           | -42.67            | -69.91            | -57.38             | 5.08                 | 6.80                  | H                  |
|                                                 | 5637              | -40.43       | -13           | -27.43            | -58.11            | -42.10             | 8.03                 | 9.70                  | H                  |
|                                                 | 7518              | -53.78       | -13           | -40.78            | -75.08            | -56.16             | 9.43                 | 11.81                 | H                  |
|                                                 | 3759              | -60.25       | -13           | -47.25            | -72.68            | -61.96             | 5.08                 | 6.80                  | V                  |
|                                                 | 5637              | -33.88       | -13           | -20.88            | -52.74            | -35.55             | 8.03                 | 9.70                  | V                  |
|                                                 | 7518              | -55.34       | -13           | -42.34            | -76.48            | -57.72             | 9.43                 | 11.81                 | V                  |

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

| LTE Band 2 / 3MHz / 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                                        | 3756              | -56.71       | -13           | -43.71            | -70.95            | -58.42             | 5.08                 | 6.80                  | H                  |
|                                               | 5637              | -39.23       | -13           | -26.23            | -57.21            | -40.90             | 8.03                 | 9.70                  | H                  |
|                                               | 7515              | -53.99       | -13           | -40.99            | -75.29            | -56.37             | 9.43                 | 11.81                 | H                  |
|                                               | 3756              | -60.28       | -13           | -47.28            | -72.71            | -61.99             | 5.08                 | 6.80                  | V                  |
|                                               | 5637              | -35.11       | -13           | -22.11            | -53.77            | -36.78             | 8.03                 | 9.70                  | V                  |
|                                               | 7515              | -55.58       | -13           | -42.58            | -76.72            | -57.96             | 9.43                 | 11.81                 | V                  |

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



| LTE Band 2 / 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                                        | 3756              | -55.97       | -13           | -42.97            | -70.21            | -57.68             | 5.08                 | 6.80                  | H                  |
|                                               | 5634              | -39.27       | -13           | -26.27            | -57.25            | -40.94             | 8.03                 | 9.70                  | H                  |
|                                               | 7512              | -53.07       | -13           | -40.07            | -74.37            | -55.45             | 9.43                 | 11.81                 | H                  |
|                                               | 3756              | -60.07       | -13           | -47.07            | -72.5             | -61.78             | 5.08                 | 6.80                  | V                  |
|                                               | 5634              | -31.08       | -13           | -18.08            | -50.23            | -32.75             | 8.03                 | 9.70                  | V                  |
|                                               | 7512              | -56.20       | -13           | -43.20            | -77.34            | -58.58             | 9.43                 | 11.81                 | V                  |

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

| LTE Band 2 / 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                                         | 3750              | -56.03       | -13           | -43.03            | -70.27            | -57.74             | 5.08                 | 6.80                  | H                  |
|                                                | 5625              | -39.40       | -13           | -26.40            | -57.37            | -41.07             | 8.03                 | 9.70                  | H                  |
|                                                | 7503              | -54.03       | -13           | -41.03            | -75.33            | -56.41             | 9.43                 | 11.81                 | H                  |
|                                                | 3750              | -59.49       | -13           | -46.49            | -71.92            | -61.20             | 5.08                 | 6.80                  | V                  |
|                                                | 5625              | -35.36       | -13           | -22.36            | -54               | -37.03             | 8.03                 | 9.70                  | V                  |
|                                                | 7503              | -56.71       | -13           | -43.71            | -77.85            | -59.09             | 9.43                 | 11.81                 | V                  |

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



| LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                        | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                         | 3747                 | -57.63          | -13              | -44.63                  | -71.87                  | -59.34                   | 5.08                       | 6.80                        | H                     |
|                                                | 5619                 | -35.44          | -13              | -22.44                  | -54.29                  | -37.11                   | 8.03                       | 9.70                        | H                     |
|                                                | 7494                 | -53.63          | -13              | -40.63                  | -74.93                  | -56.01                   | 9.43                       | 11.81                       | H                     |
|                                                | 3747                 | -60.81          | -13              | -47.81                  | -73.24                  | -62.52                   | 5.08                       | 6.80                        | V                     |
|                                                | 5619                 | -28.77          | -13              | -15.77                  | -48.2                   | -30.44                   | 8.03                       | 9.70                        | V                     |
|                                                | 7494                 | -56.38          | -13              | -43.38                  | -77.52                  | -58.76                   | 9.43                       | 11.81                       | V                     |

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

| LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                        | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                         | 3741                 | -55.67          | -13              | -42.67                  | -69.91                  | -57.38                   | 5.08                       | 6.80                        | H                     |
|                                                | 5613                 | -33.65          | -13              | -20.65                  | -52.92                  | -35.32                   | 8.03                       | 9.70                        | H                     |
|                                                | 7485                 | -55.56          | -13              | -42.56                  | -76.86                  | -57.94                   | 9.43                       | 11.81                       | H                     |
|                                                | 3741                 | -58.25          | -13              | -45.25                  | -70.68                  | -59.96                   | 5.08                       | 6.80                        | V                     |
|                                                | 5613                 | -33.44          | -13              | -20.44                  | -52.35                  | -35.11                   | 8.03                       | 9.70                        | V                     |
|                                                | 7485                 | -56.67          | -13              | -43.67                  | -77.81                  | -59.05                   | 9.43                       | 11.81                       | V                     |

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



| LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                         | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                          | 3465                 | -52.32          | -13              | -39.32                  | -62.18                  | -56.29                   | 4.87                       | 8.84                        | H                     |
|                                                 | 5196                 | -29.29          | -13              | -16.29                  | -49.33                  | -30.74                   | 7.70                       | 9.14                        | H                     |
|                                                 | 6927                 | -59.43          | -13              | -46.43                  | -77.90                  | -61.11                   | 8.98                       | 10.66                       | H                     |
|                                                 | 8661                 | -48.06          | -13              | -35.06                  | -67.81                  | -50.79                   | 10.13                      | 12.86                       | H                     |
|                                                 | 3465                 | -43.27          | -13              | -30.27                  | -59.01                  | -47.24                   | 4.87                       | 8.84                        | V                     |
|                                                 | 5196                 | -30.37          | -13              | -17.37                  | -50.25                  | -31.82                   | 7.70                       | 9.14                        | V                     |
|                                                 | 6927                 | -59.73          | -13              | -46.73                  | -77.75                  | -61.41                   | 8.98                       | 10.66                       | V                     |
|                                                 | 8661                 | -47.18          | -13              | -34.18                  | -67.83                  | -49.91                   | 10.13                      | 12.86                       | V                     |

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

| LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-----------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                       | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                        | 3462                 | -48.29          | -13              | -35.29                  | -60.49                  | -52.26                   | 4.87                       | 8.84                        | H                     |
|                                               | 5193                 | -30.74          | -13              | -17.74                  | -50.66                  | -32.18                   | 7.70                       | 9.14                        | H                     |
|                                               | 6924                 | -59.57          | -13              | -46.57                  | -78.04                  | -61.25                   | 8.98                       | 10.66                       | H                     |
|                                               | 8655                 | -47.73          | -13              | -34.73                  | -67.48                  | -50.46                   | 10.13                      | 12.86                       | H                     |
|                                               | 3462                 | -43.20          | -13              | -30.20                  | -58.96                  | -47.17                   | 4.87                       | 8.84                        | V                     |
|                                               | 5193                 | -28.45          | -13              | -15.45                  | -48.56                  | -29.89                   | 7.70                       | 9.14                        | V                     |
|                                               | 6924                 | -60.47          | -13              | -47.47                  | -78.49                  | -62.15                   | 8.98                       | 10.66                       | V                     |
|                                               | 8655                 | -49.34          | -13              | -36.34                  | -69.99                  | -52.07                   | 10.13                      | 12.86                       | V                     |

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



| LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-----------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                       | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                        | 3459                 | -50.88          | -13              | -37.88                  | -61.59                  | -54.85                   | 4.87                       | 8.84                        | H                     |
|                                               | 5190                 | -33.54          | -13              | -20.54                  | -53.15                  | -34.98                   | 7.70                       | 9.14                        | H                     |
|                                               | 6921                 | -59.31          | -13              | -46.31                  | -77.78                  | -60.99                   | 8.98                       | 10.66                       | H                     |
|                                               | 8652                 | -47.73          | -13              | -34.73                  | -67.48                  | -50.46                   | 10.13                      | 12.86                       | H                     |
|                                               | 3459                 | -46.45          | -13              | -33.45                  | -61.4                   | -50.42                   | 4.87                       | 8.84                        | V                     |
|                                               | 5190                 | -32.57          | -13              | -19.57                  | -52.17                  | -34.01                   | 7.70                       | 9.14                        | V                     |
|                                               | 6921                 | -60.53          | -13              | -47.53                  | -78.55                  | -62.21                   | 8.98                       | 10.66                       | V                     |
|                                               | 8652                 | -51.39          | -13              | -38.39                  | -72.04                  | -54.12                   | 10.13                      | 12.86                       | V                     |

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

| LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                        | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                         | 3456                 | -47.17          | -13              | -34.17                  | -59.80                  | -51.14                   | 4.87                       | 8.84                        | H                     |
|                                                | 5184                 | -34.60          | -13              | -21.60                  | -53.99                  | -36.05                   | 7.70                       | 9.14                        | H                     |
|                                                | 6912                 | -58.99          | -13              | -45.99                  | -77.46                  | -60.67                   | 8.98                       | 10.66                       | H                     |
|                                                | 8640                 | -49.26          | -13              | -36.26                  | -69.01                  | -51.99                   | 10.13                      | 12.86                       | H                     |
|                                                | 3456                 | -43.64          | -13              | -30.64                  | -59.25                  | -47.61                   | 4.87                       | 8.84                        | V                     |
|                                                | 5184                 | -22.05          | -13              | -9.05                   | -42.53                  | -23.50                   | 7.70                       | 9.14                        | V                     |
|                                                | 6912                 | -60.01          | -13              | -47.01                  | -78.03                  | -61.69                   | 8.98                       | 10.66                       | V                     |
|                                                | 8640                 | -49.27          | -13              | -36.27                  | -69.92                  | -52.00                   | 10.13                      | 12.86                       | V                     |

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



| LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                        | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                         | 3450                 | -48.69          | -13              | -35.69                  | -60.80                  | -52.66                   | 4.87                       | 8.84                        | H                     |
|                                                | 5178                 | -39.42          | -13              | -26.42                  | -57.37                  | -40.86                   | 7.70                       | 9.14                        | H                     |
|                                                | 6903                 | -58.82          | -13              | -45.82                  | -77.29                  | -60.50                   | 8.98                       | 10.66                       | H                     |
|                                                | 8628                 | -47.80          | -13              | -34.80                  | -67.55                  | -50.53                   | 10.13                      | 12.86                       | H                     |
|                                                | 3450                 | -44.46          | -13              | -31.46                  | -60.02                  | -48.43                   | 4.87                       | 8.84                        | V                     |
|                                                | 5178                 | -33.59          | -13              | -20.59                  | -52.97                  | -35.03                   | 7.70                       | 9.14                        | V                     |
|                                                | 6903                 | -60.93          | -13              | -47.93                  | -78.95                  | -62.61                   | 8.98                       | 10.66                       | V                     |
|                                                | 8628                 | -55.51          | -13              | -42.51                  | -76.16                  | -58.24                   | 10.13                      | 12.86                       | V                     |

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

| LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                        | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                         | 3447                 | -47.89          | -13              | -34.89                  | -60.21                  | -51.86                   | 4.87                       | 8.84                        | H                     |
|                                                | 5169                 | -40.11          | -13              | -27.11                  | -57.73                  | -41.56                   | 7.70                       | 9.14                        | H                     |
|                                                | 6894                 | -59.24          | -13              | -46.24                  | -77.71                  | -60.92                   | 8.98                       | 10.66                       | H                     |
|                                                | 8619                 | -50.78          | -13              | -37.78                  | -70.53                  | -53.51                   | 10.13                      | 12.86                       | H                     |
|                                                | 3447                 | -44.06          | -13              | -31.06                  | -59.56                  | -48.03                   | 4.87                       | 8.84                        | V                     |
|                                                | 5169                 | -27.55          | -13              | -14.55                  | -47.7                   | -28.99                   | 7.70                       | 9.14                        | V                     |
|                                                | 6894                 | -58.75          | -13              | -45.75                  | -76.77                  | -60.43                   | 8.98                       | 10.66                       | V                     |
|                                                | 8619                 | -51.59          | -13              | -38.59                  | -72.24                  | -54.32                   | 10.13                      | 12.86                       | V                     |

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



| 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              | -54.11      | -13           | -41.11            | -58.34            | -56.43             | 1.33                 | 5.80                  | H                  |
|                                                 | 2508              | -19.32      | -13           | -6.32             | -31.51            | -22.49             | 1.58                 | 6.90                  | H                  |
|                                                 | 3345              | -59.03      | -13           | -46.03            | -68.24            | -62.53             | 1.85                 | 7.50                  | H                  |
|                                                 | 4179              | -36.52      | -13           | -23.52            | -50.13            | -39.56             | 2.11                 | 7.30                  | H                  |
|                                                 | 5016              | -60.71      | -13           | -47.71            | -75.75            | -65.25             | 2.31                 | 9.00                  | H                  |
|                                                 | 5853              | -46.06      | -13           | -33.06            | -62.67            | -52.14             | 2.61                 | 10.84                 | H                  |
|                                                 | 1672              | -48.39      | -13           | -35.39            | -53.93            | -50.71             | 1.33                 | 5.80                  | V                  |
|                                                 | 2508              | -24.77      | -13           | -11.77            | -37.18            | -27.94             | 1.58                 | 6.90                  | V                  |
|                                                 | 3345              | -62.00      | -13           | -49.00            | -71.02            | -65.50             | 1.85                 | 7.50                  | V                  |
|                                                 | 4179              | -33.87      | -13           | -20.87            | -46.66            | -36.91             | 2.11                 | 7.30                  | V                  |
|                                                 | 5016              | -63.95      | -13           | -50.95            | -75.83            | -68.49             | 2.31                 | 9.00                  | V                  |
|                                                 | 5853              | -42.66      | -13           | -29.66            | -59.22            | -48.74             | 2.61                 | 10.84                 | 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              | -53.90      | -13           | -40.90            | -58.17            | -56.22             | 1.33                 | 5.80                  | H                  |
|                                               | 2506              | -26.50      | -13           | -13.50            | -39.66            | -29.67             | 1.58                 | 6.90                  | H                  |
|                                               | 3342              | -59.49      | -13           | -46.49            | -68.70            | -62.99             | 1.85                 | 7.50                  | H                  |
|                                               | 4176              | -35.17      | -13           | -22.17            | -48.94            | -38.21             | 2.11                 | 7.30                  | H                  |
|                                               | 5010              | -61.31      | -13           | -48.31            | -76.35            | -65.85             | 2.31                 | 9.00                  | H                  |
|                                               | 5847              | -45.14      | -13           | -32.14            | -61.75            | -51.22             | 2.61                 | 10.84                 | H                  |
|                                               | 1670              | -48.89      | -13           | -35.89            | -54.34            | -51.21             | 1.33                 | 5.80                  | V                  |
|                                               | 2506              | -27.46      | -13           | -14.46            | -39.83            | -30.63             | 1.58                 | 6.90                  | V                  |
|                                               | 3339              | -61.79      | -13           | -48.79            | -70.81            | -65.29             | 1.85                 | 7.50                  | V                  |
|                                               | 4176              | -40.04      | -13           | -27.04            | -52.12            | -43.08             | 2.11                 | 7.30                  | V                  |
|                                               | 5010              | -64.43      | -13           | -51.43            | -76.31            | -68.97             | 2.31                 | 9.00                  | V                  |
|                                               | 5847              | -41.24      | -13           | -28.24            | -58.11            | -47.32             | 2.61                 | 10.84                 | 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              | -52.89      | -13           | -39.89            | -57.42            | -55.21             | 1.33                 | 5.80                  | H                  |
|                                               | 2502              | -24.06      | -13           | -11.06            | -37.32            | -27.23             | 1.58                 | 6.90                  | H                  |
|                                               | 3336              | -57.35      | -13           | -44.35            | -66.56            | -60.85             | 1.85                 | 7.50                  | H                  |
|                                               | 4170              | -42.52      | -13           | -29.52            | -55.03            | -45.56             | 2.11                 | 7.30                  | H                  |
|                                               | 5007              | -60.82      | -13           | -47.82            | -75.86            | -65.36             | 2.31                 | 9.00                  | H                  |
|                                               | 5841              | -45.54      | -13           | -32.54            | -62.15            | -51.62             | 2.61                 | 10.84                 | H                  |
|                                               | 1668              | -48.08      | -13           | -35.08            | -53.67            | -50.40             | 1.33                 | 5.80                  | V                  |
|                                               | 2502              | -28.80      | -13           | -15.80            | -41.14            | -31.97             | 1.58                 | 6.90                  | V                  |
|                                               | 3336              | -61.30      | -13           | -48.30            | -70.32            | -64.80             | 1.85                 | 7.50                  | V                  |
|                                               | 4170              | -46.88      | -13           | -33.88            | -57.46            | -49.92             | 2.11                 | 7.30                  | V                  |
|                                               | 5007              | -64.06      | -13           | -51.06            | -75.94            | -68.60             | 2.31                 | 9.00                  | V                  |
|                                               | 5841              | -40.53      | -13           | -27.53            | -57.59            | -46.61             | 2.61                 | 10.84                 | 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              | -52.86      | -13           | -39.86            | -57.40            | -55.18             | 1.33                 | 5.80                  | H                  |
|                                                | 2496              | -26.04      | -13           | -13.04            | -39.24            | -29.21             | 1.58                 | 6.90                  | H                  |
|                                                | 3327              | -56.87      | -13           | -43.87            | -66.08            | -60.37             | 1.85                 | 7.50                  | H                  |
|                                                | 4161              | -38.25      | -13           | -25.25            | -51.55            | -41.29             | 2.11                 | 7.30                  | H                  |
|                                                | 4992              | -60.15      | -13           | -47.15            | -75.19            | -64.69             | 2.31                 | 9.00                  | H                  |
|                                                | 5823              | -40.45      | -13           | -27.45            | -58.09            | -46.53             | 2.61                 | 10.84                 | H                  |
|                                                | 1664              | -50.18      | -13           | -37.18            | -55.38            | -52.50             | 1.33                 | 5.80                  | V                  |
|                                                | 2496              | -26.93      | -13           | -13.93            | -39.32            | -30.10             | 1.58                 | 6.90                  | V                  |
|                                                | 3327              | -61.03      | -13           | -48.03            | -70.05            | -64.53             | 1.85                 | 7.50                  | V                  |
|                                                | 4161              | -42.43      | -13           | -29.43            | -54.13            | -45.47             | 2.11                 | 7.30                  | V                  |
|                                                | 4992              | -64.60      | -13           | -51.60            | -76.48            | -69.14             | 2.31                 | 9.00                  | V                  |
|                                                | 5823              | -37.82      | -13           | -24.82            | -55.80            | -43.90             | 2.61                 | 10.84                 | 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<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                        | 5066                 | -47.61          | -25              | -22.61                  | -37.41                  | -54.05                   | 2.54                       | 8.97                        | H                     |
|                                               | 7598                 | -37.06          | -25              | -12.06                  | -32.16                  | -45.22                   | 3.71                       | 11.86                       | H                     |
|                                               | 10130                | -62.45          | -25              | -37.45                  | -61.00                  | -70.96                   | 3.59                       | 12.11                       | H                     |
|                                               | 5066                 | -48.91          | -25              | -23.91                  | -38.36                  | -55.34                   | 2.54                       | 8.97                        | V                     |
|                                               | 7598                 | -38.19          | -25              | -13.19                  | -34.38                  | -46.34                   | 3.71                       | 11.86                       | V                     |
|                                               | 10130                | -62.92          | -25              | -37.92                  | -61.53                  | -71.43                   | 3.59                       | 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<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                         | 5060                 | -46.87          | -25              | -21.87                  | -37.00                  | -53.31                   | 2.54                       | 8.97                        | H                     |
|                                                | 7592                 | -36.43          | -25              | -11.43                  | -31.62                  | -44.58                   | 3.71                       | 11.86                       | H                     |
|                                                | 10120                | -63.61          | -25              | -38.61                  | -62.16                  | -72.12                   | 3.59                       | 12.11                       | H                     |
|                                                | 5060                 | -47.08          | -25              | -22.08                  | -37.18                  | -53.51                   | 2.54                       | 8.97                        | V                     |
|                                                | 7592                 | -36.55          | -25              | -11.55                  | -33                     | -44.71                   | 3.71                       | 11.86                       | V                     |
|                                                | 10120                | -63.26          | -25              | -38.26                  | -61.87                  | -71.77                   | 3.59                       | 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<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                         | 5057                 | -49.15          | -25              | -24.15                  | -38.32                  | -55.59                   | 2.54                       | 8.97                        | H                     |
|                                                | 7583                 | -41.93          | -25              | -16.93                  | -35.80                  | -50.08                   | 3.71                       | 11.86                       | H                     |
|                                                | 10110                | -63.25          | -25              | -38.25                  | -61.80                  | -71.76                   | 3.59                       | 12.11                       | H                     |
|                                                | 5057                 | -54.48          | -25              | -29.48                  | -41.13                  | -60.91                   | 2.54                       | 8.97                        | V                     |
|                                                | 7583                 | -39.96          | -25              | -14.96                  | -35.94                  | -48.11                   | 3.71                       | 11.86                       | V                     |
|                                                | 10110                | -62.70          | -25              | -37.70                  | -61.31                  | -71.21                   | 3.59                       | 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<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                         | 5051                 | -47.94          | -25              | -22.94                  | -37.59                  | -54.38                   | 2.54                       | 8.97                        | H                     |
|                                                | 7577                 | -37.72          | -25              | -12.72                  | -32.55                  | -45.88                   | 3.71                       | 11.86                       | H                     |
|                                                | 10100                | -63.09          | -25              | -38.09                  | -61.64                  | -71.60                   | 3.59                       | 12.11                       | H                     |
|                                                | 5051                 | -43.43          | -25              | -18.43                  | -34.5                   | -49.87                   | 2.54                       | 8.97                        | V                     |
|                                                | 7577                 | -32.11          | -25              | -7.11                   | -28.97                  | -40.26                   | 3.71                       | 11.86                       | V                     |
|                                                | 10100                | -55.10          | -25              | -30.10                  | -53.71                  | -63.61                   | 3.59                       | 12.11                       | V                     |

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



| LTE Band 13 / 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                                         | 1560              | -61.83      | -40           | -21.83            | -64.93            | -65.21             | 1.17                 | 4.55                  | H                  |
|                                                | 2338              | -52.76      | -13           | -39.76            | -59.89            | -54.56             | 1.40                 | 5.35                  | H                  |
|                                                | 3120              | -73.00      | -13           | -60.00            | -76.97            | -75.27             | 1.68                 | 6.10                  | H                  |
|                                                | 3900              | -63.07      | -13           | -50.07            | -70.70            | -65.81             | 1.89                 | 6.78                  | H                  |
|                                                | 1560              | -50.17      | -40           | -10.17            | -57.16            | -53.55             | 1.17                 | 4.55                  | V                  |
|                                                | 2346              | -38.51      | -13           | -25.51            | -48.46            | -40.31             | 1.40                 | 5.35                  | V                  |
|                                                | 3120              | -71.54      | -13           | -58.54            | -76.22            | -73.80             | 1.68                 | 6.10                  | V                  |
|                                                | 3900              | -66.19      | -13           | -53.19            | -72.60            | -68.93             | 1.89                 | 6.78                  | V                  |

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

| LTE Band 13 / 10MHz / QPSK |                   |             |               |                   |                   |                    |                      |                       |                    |
|----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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                     | 1554              | -61.73      | -13           | -48.73            | -62.78            | -62.96             | 1.17                 | 4.55                  | H                  |
|                            | 2332              | -54.37      | -13           | -41.37            | -60.89            | -56.17             | 1.40                 | 5.35                  | H                  |
|                            | 3108              | -72.98      | -13           | -59.98            | -76.95            | -75.25             | 1.68                 | 6.10                  | H                  |
|                            | 1554              | -60.63      | -13           | -47.63            | -62.16            | -61.86             | 1.17                 | 4.55                  | V                  |
|                            | 2332              | -51.60      | -13           | -38.60            | -59.38            | -53.40             | 1.40                 | 5.35                  | V                  |
|                            | 3108              | -72.02      | -13           | -59.02            | -76.70            | -74.28             | 1.68                 | 6.10                  | V                  |

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



| LTE Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                          | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                           | 3489                 | -42.50          | -13              | -29.50                  | -57.27                  | -46.47                   | 4.87                       | 8.84                        | H                     |
|                                                  | 5232                 | -34.32          | -13              | -21.32                  | -53.78                  | -35.76                   | 7.70                       | 9.14                        | H                     |
|                                                  | 6978                 | -56.88          | -13              | -43.88                  | -75.35                  | -58.56                   | 8.98                       | 10.66                       | H                     |
|                                                  | 8721                 | -46.17          | -13              | -33.17                  | -65.92                  | -48.90                   | 10.13                      | 12.86                       | H                     |
|                                                  | 3489                 | -40.17          | -13              | -27.17                  | -56.51                  | -44.14                   | 4.87                       | 8.84                        | V                     |
|                                                  | 5232                 | -32.07          | -13              | -19.07                  | -51.77                  | -33.51                   | 7.70                       | 9.14                        | V                     |
|                                                  | 6978                 | -58.11          | -13              | -45.11                  | -76.13                  | -59.79                   | 8.98                       | 10.66                       | V                     |
|                                                  | 8721                 | -34.41          | -13              | -21.41                  | -59.92                  | -37.14                   | 10.13                      | 12.86                       | V                     |

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

| LTE Band 66 / 3MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                    | 3486                 | -43.08          | -13              | -30.08                  | -57.65                  | -47.05                   | 4.87                       | 8.84                        | H                     |
|                           | 5232                 | -32.07          | -13              | -19.07                  | -51.79                  | -33.51                   | 7.70                       | 9.14                        | H                     |
|                           | 6975                 | -57.90          | -13              | -44.90                  | -76.37                  | -59.58                   | 8.98                       | 10.66                       | H                     |
|                           | 8718                 | -33.29          | -13              | -20.29                  | -58.40                  | -36.02                   | 10.13                      | 12.86                       | H                     |
|                           | 3486                 | -40.77          | -13              | -27.77                  | -56.98                  | -44.74                   | 4.87                       | 8.84                        | V                     |
|                           | 5232                 | -29.98          | -13              | -16.98                  | -49.85                  | -31.43                   | 7.70                       | 9.14                        | V                     |
|                           | 6978                 | -57.23          | -13              | -44.23                  | -75.25                  | -58.91                   | 8.98                       | 10.66                       | V                     |
|                           | 8718                 | -32.95          | -13              | -19.95                  | -59.06                  | -35.68                   | 10.13                      | 12.86                       | V                     |

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



| LTE Band 66 / 5MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                        | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                         | 3486                 | -45.33          | -13              | -32.33                  | -58.92                  | -49.30                   | 4.87                       | 8.84                        | H                     |
|                                                | 5229                 | -29.02          | -13              | -16.02                  | -49.13                  | -30.47                   | 7.70                       | 9.14                        | H                     |
|                                                | 6972                 | -58.72          | -13              | -45.72                  | -77.19                  | -60.40                   | 8.98                       | 10.66                       | H                     |
|                                                | 8715                 | -39.85          | -13              | -26.85                  | -62.65                  | -42.58                   | 10.13                      | 12.86                       | H                     |
|                                                | 3486                 | -38.98          | -13              | -25.98                  | -55.68                  | -42.95                   | 4.87                       | 8.84                        | V                     |
|                                                | 5229                 | -27.23          | -13              | -14.23                  | -47.38                  | -28.67                   | 7.70                       | 9.14                        | V                     |
|                                                | 6971                 | -57.68          | -13              | -44.68                  | -75.7                   | -59.36                   | 8.98                       | 10.66                       | V                     |
|                                                | 8715                 | -33.96          | -13              | -20.96                  | -59.73                  | -36.69                   | 10.13                      | 12.86                       | V                     |

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

| LTE Band 66 / 10MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                         | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                          | 3480                 | -44.61          | -13              | -31.61                  | -58.45                  | -48.58                   | 4.87                       | 8.84                        | H                     |
|                                                 | 5220                 | -30.08          | -13              | -17.08                  | -49.94                  | -31.52                   | 7.70                       | 9.14                        | H                     |
|                                                 | 6962                 | -58.52          | -13              | -45.52                  | -76.99                  | -60.20                   | 8.98                       | 10.66                       | H                     |
|                                                 | 8703                 | -39.82          | -13              | -26.82                  | -62.62                  | -42.55                   | 10.13                      | 12.86                       | H                     |
|                                                 | 3480                 | -40.40          | -13              | -27.40                  | -56.69                  | -44.37                   | 4.87                       | 8.84                        | V                     |
|                                                 | 5220                 | -27.91          | -13              | -14.91                  | -48.06                  | -29.35                   | 7.70                       | 9.14                        | V                     |
|                                                 | 6963                 | -58.78          | -13              | -45.78                  | -76.8                   | -60.46                   | 8.98                       | 10.66                       | V                     |
|                                                 | 8703                 | -33.93          | -13              | -20.93                  | -59.71                  | -36.66                   | 10.13                      | 12.86                       | V                     |

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



| LTE Band 66 / 15MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                         | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                          | 3477                 | -45.24          | -13              | -32.24                  | -58.84                  | -49.21                   | 4.87                       | 8.84                        | H                     |
|                                                 | 5214                 | -30.05          | -13              | -17.05                  | -49.91                  | -31.49                   | 7.70                       | 9.14                        | H                     |
|                                                 | 6953                 | -58.79          | -13              | -45.79                  | -77.26                  | -60.47                   | 8.98                       | 10.66                       | H                     |
|                                                 | 8691                 | -41.34          | -13              | -28.34                  | -63.43                  | -44.07                   | 10.13                      | 12.86                       | H                     |
|                                                 | 3477                 | -40.13          | -13              | -27.13                  | -56.48                  | -44.10                   | 4.87                       | 8.84                        | V                     |
|                                                 | 5214                 | -23.35          | -13              | -10.35                  | -43.86                  | -24.79                   | 7.70                       | 9.14                        | V                     |
|                                                 | 6954                 | -58.67          | -13              | -45.67                  | -76.69                  | -60.35                   | 8.98                       | 10.66                       | V                     |
|                                                 | 8691                 | -38.44          | -13              | -25.44                  | -62.34                  | -41.17                   | 10.13                      | 12.86                       | V                     |

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

| LTE Band 66 / 20MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                         | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                          | 3471                 | -43.58          | -13              | -30.58                  | -57.95                  | -47.55                   | 4.87                       | 8.84                        | H                     |
|                                                 | 5208                 | -26.55          | -13              | -13.55                  | -46.82                  | -28.00                   | 7.70                       | 9.14                        | H                     |
|                                                 | 6944                 | -57.74          | -13              | -44.74                  | -76.21                  | -59.42                   | 8.98                       | 10.66                       | H                     |
|                                                 | 8679                 | -44.76          | -13              | -31.76                  | -64.64                  | -47.49                   | 10.13                      | 12.86                       | H                     |
|                                                 | 3471                 | -40.26          | -13              | -27.26                  | -56.58                  | -44.23                   | 4.87                       | 8.84                        | V                     |
|                                                 | 5208                 | -24.47          | -13              | -11.47                  | -44.91                  | -25.92                   | 7.70                       | 9.14                        | V                     |
|                                                 | 6945                 | -59.09          | -13              | -46.09                  | -77.11                  | -60.77                   | 8.98                       | 10.66                       | V                     |
|                                                 | 8679                 | -39.04          | -13              | -26.04                  | -62.74                  | -41.77                   | 10.13                      | 12.86                       | V                     |

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