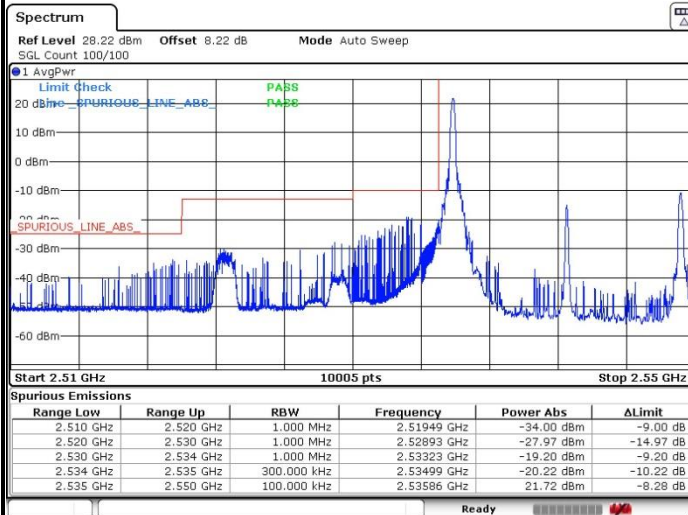


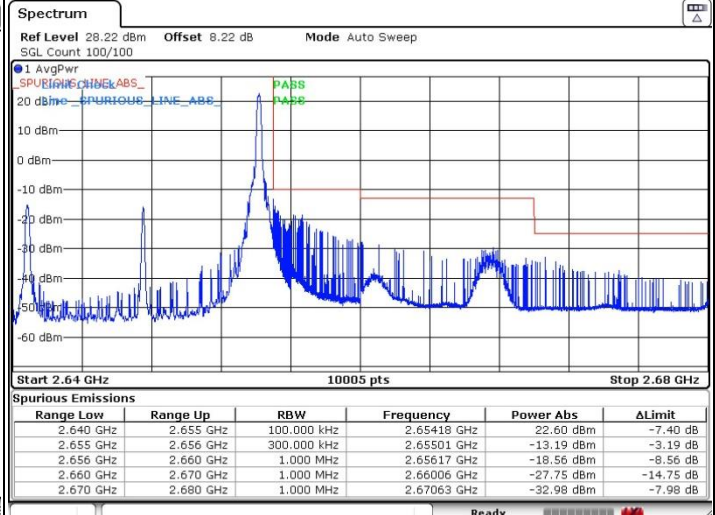


## LTE Band 41 / 15MHz / QPSK

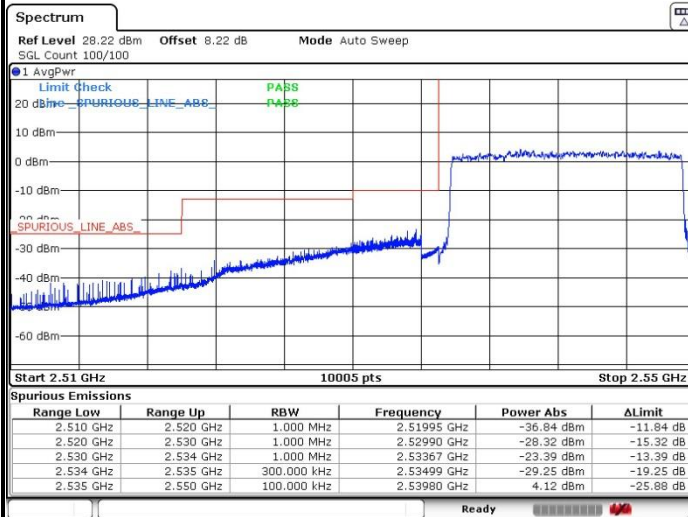
## Lowest Band Edge / 1 RB



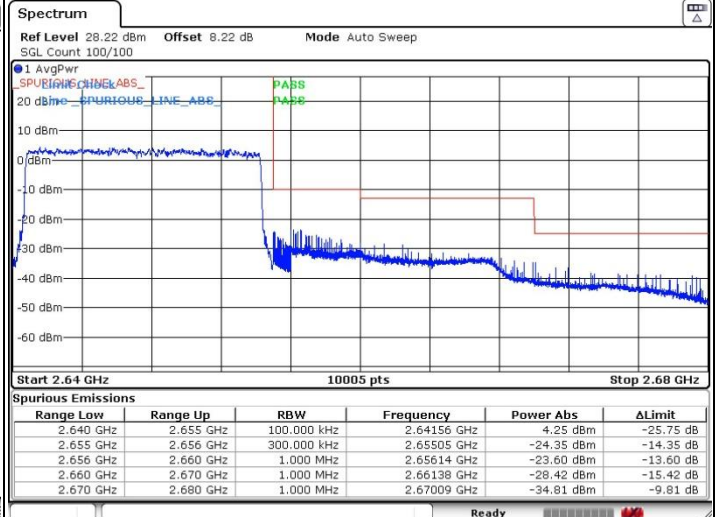
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



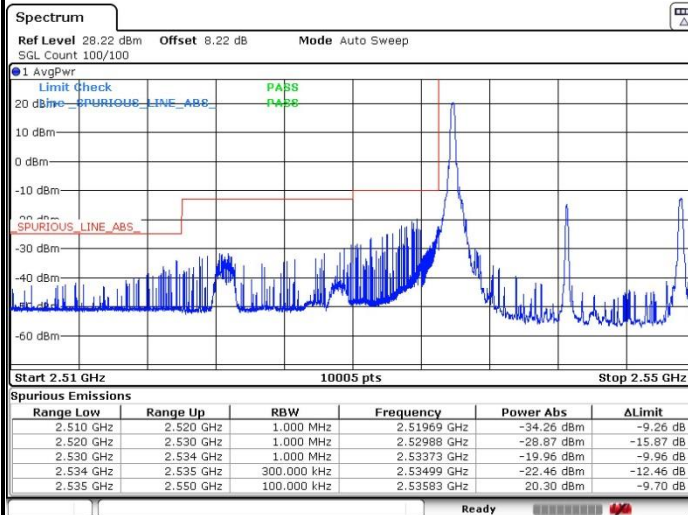
## Highest Band Edge / Full RB



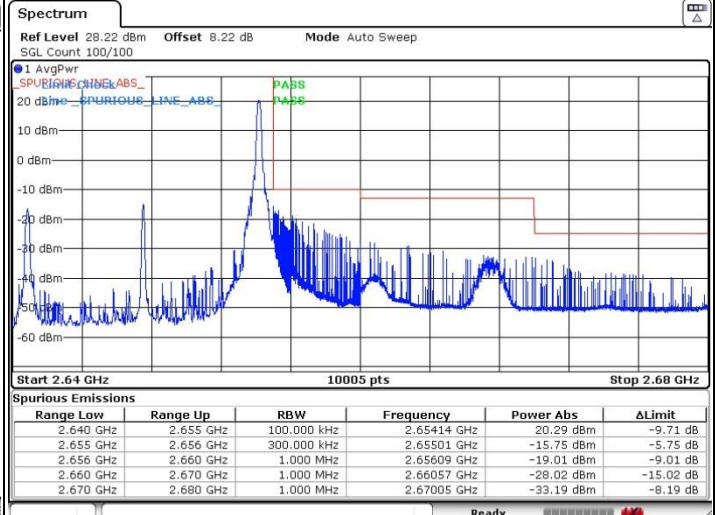


## LTE Band 41 / 15MHz / 16QAM

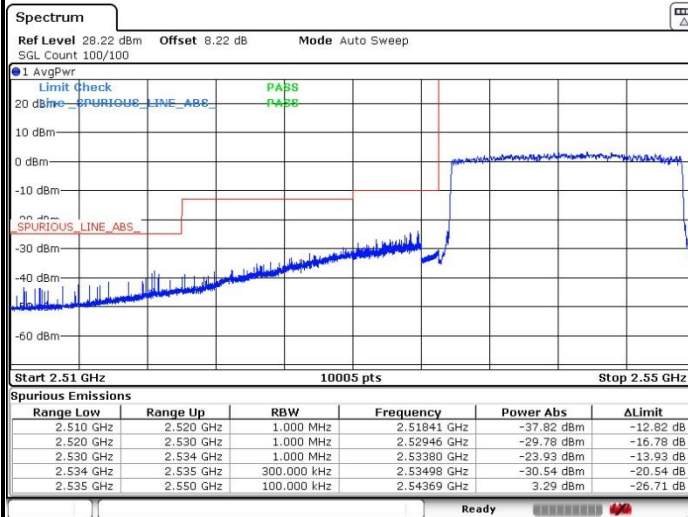
## Lowest Band Edge / 1 RB



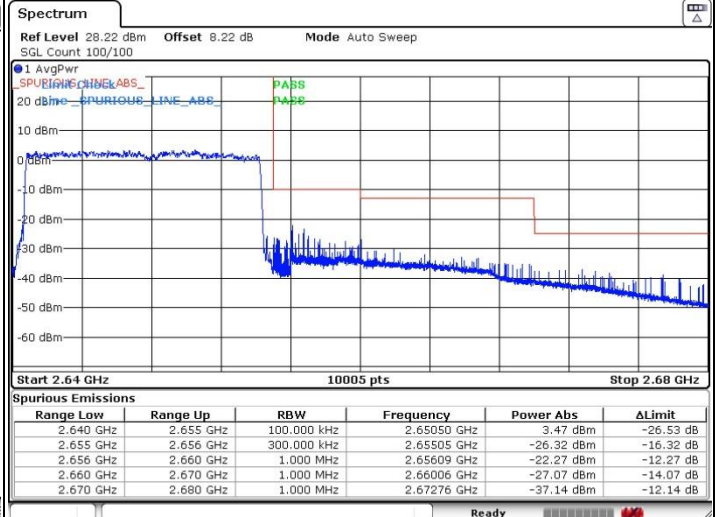
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



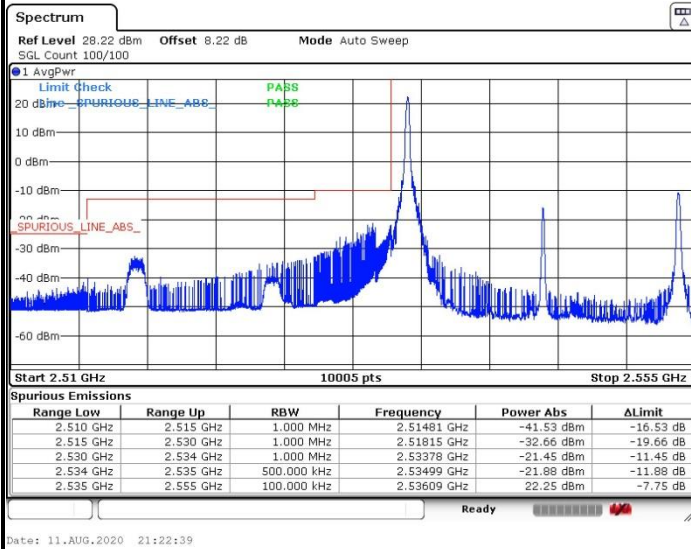
## Highest Band Edge / Full RB



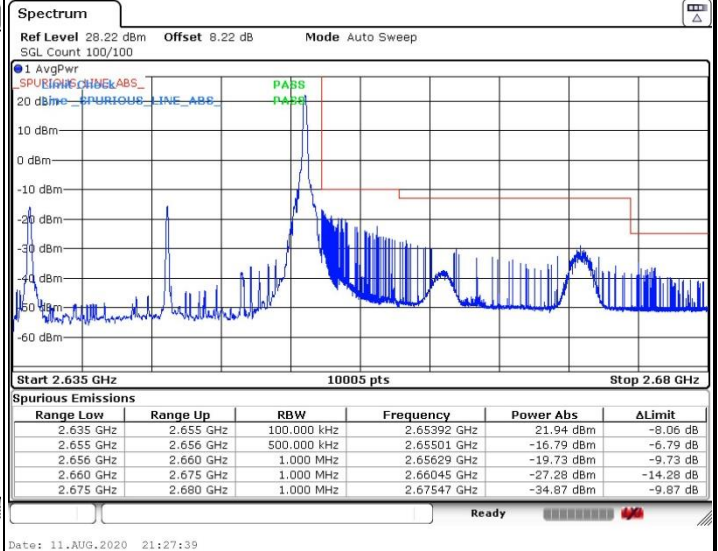


## LTE Band 41 / 20MHz / QPSK

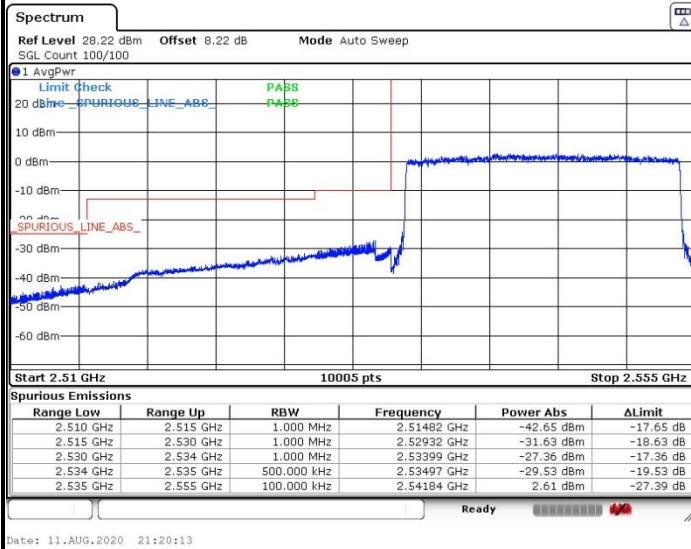
## Lowest Band Edge / 1 RB



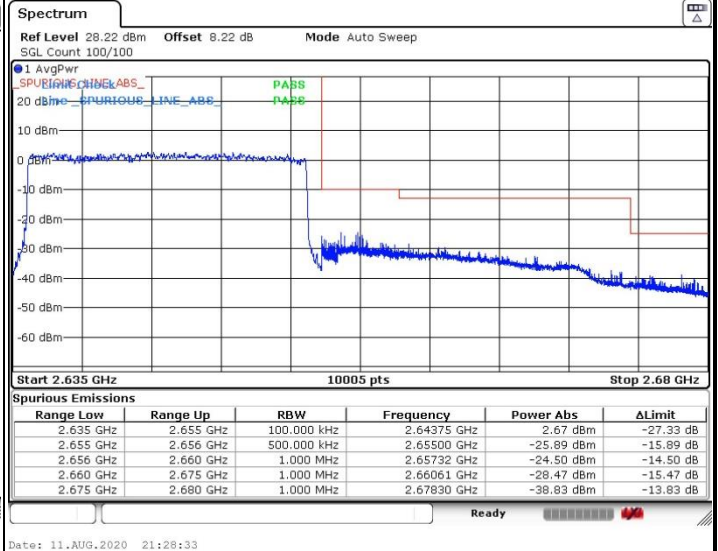
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



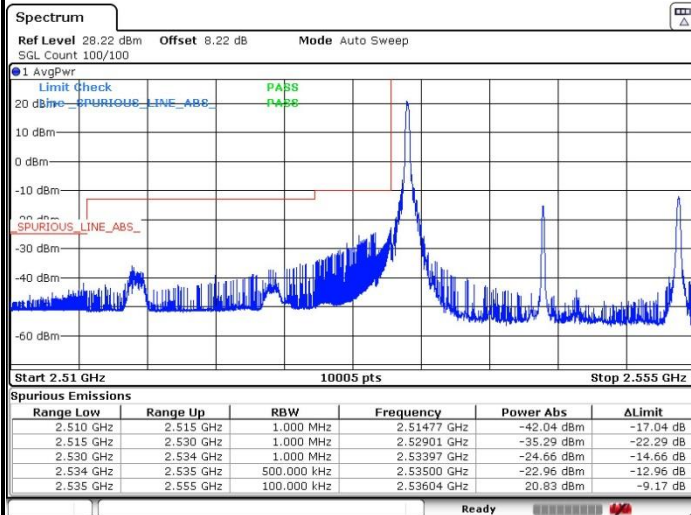
## Highest Band Edge / Full RB



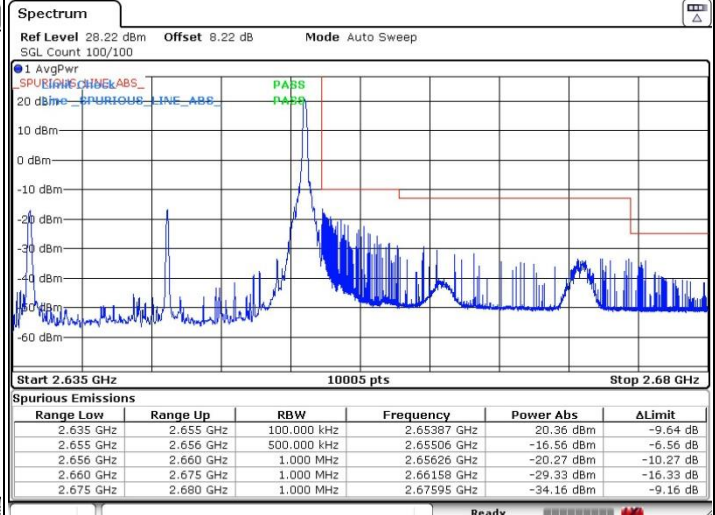


## LTE Band 41 / 20MHz / 16QAM

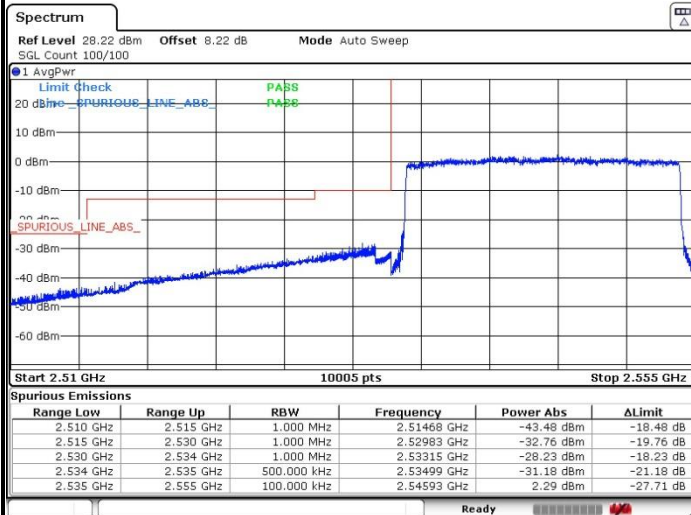
## Lowest Band Edge / 1 RB



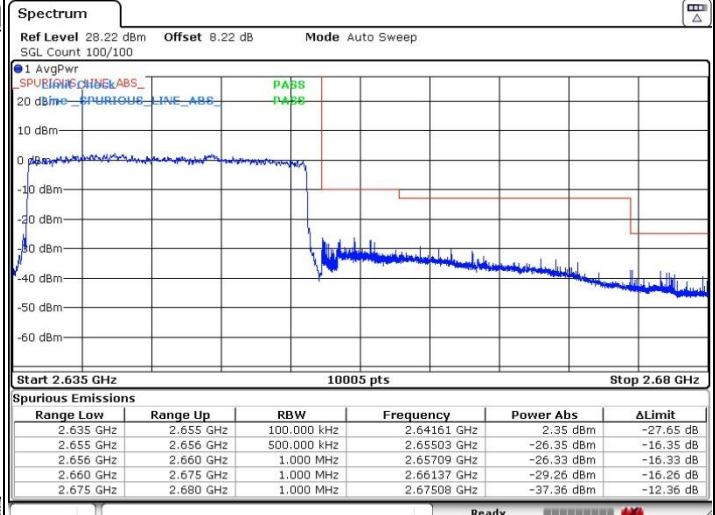
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

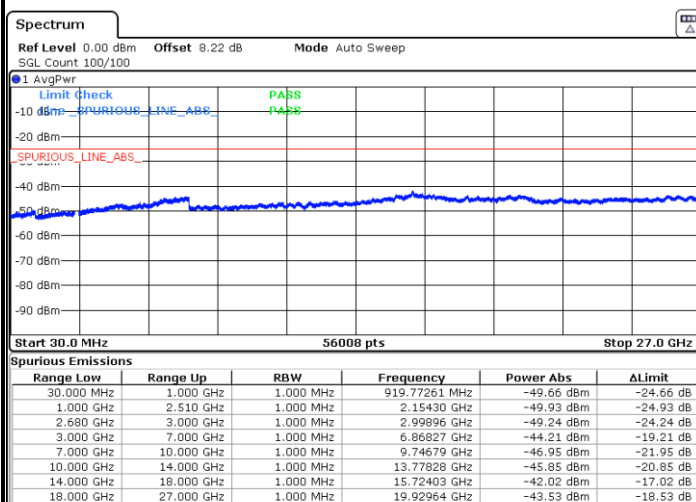




# Conducted Spurious Emission

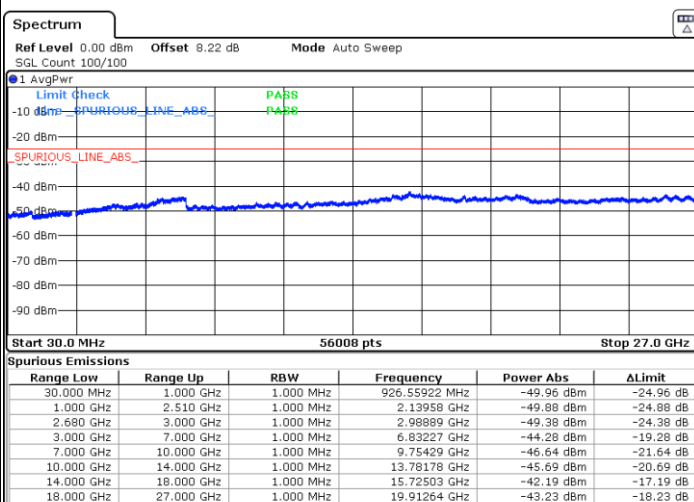
## LTE Band 41 / 5MHz

### Lowest Channel / QPSK



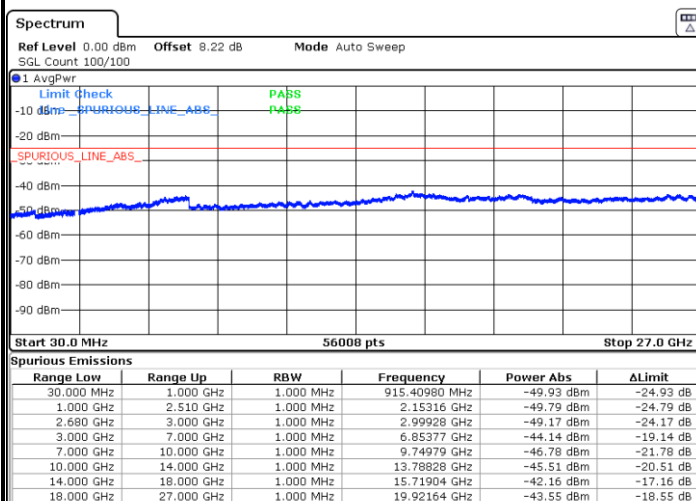
Date: 10.AUG.2020 07:45:26

### Lowest Channel / 16QAM



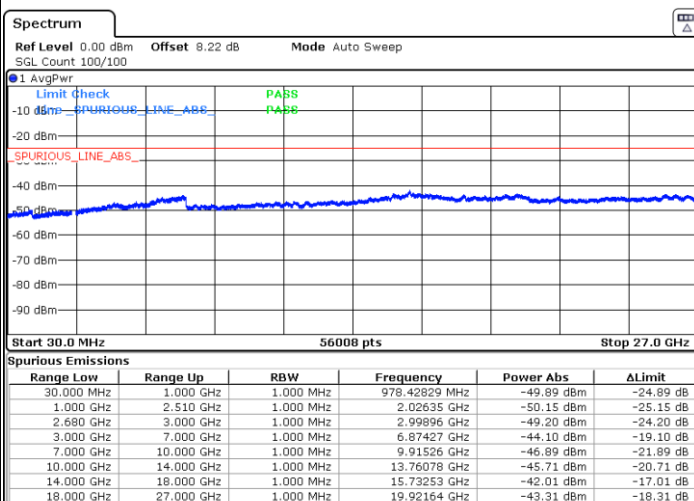
Date: 10.AUG.2020 07:46:27

### Middle Channel / QPSK



Date: 10.AUG.2020 07:26:01

### Middle Channel / 16QAM

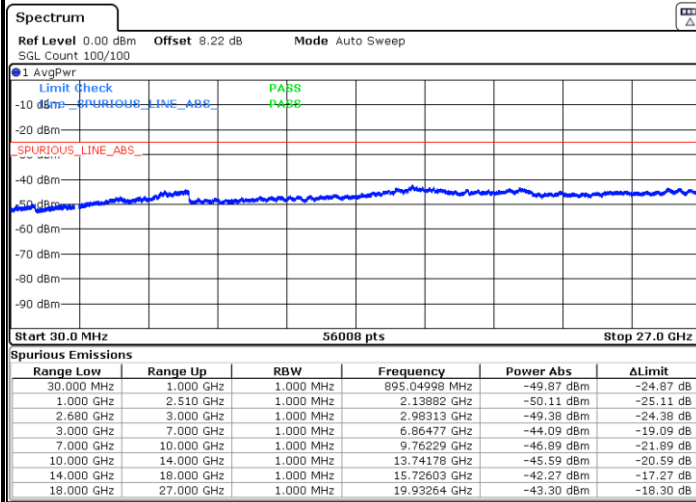


Date: 10.AUG.2020 07:26:58



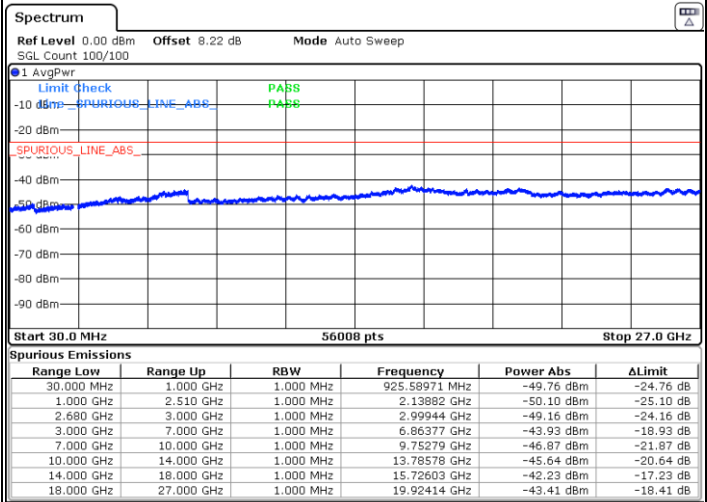
## LTE Band 41 / 5MHz

## Highest Channel / QPSK



Date: 10.AUG.2020 07:35:39

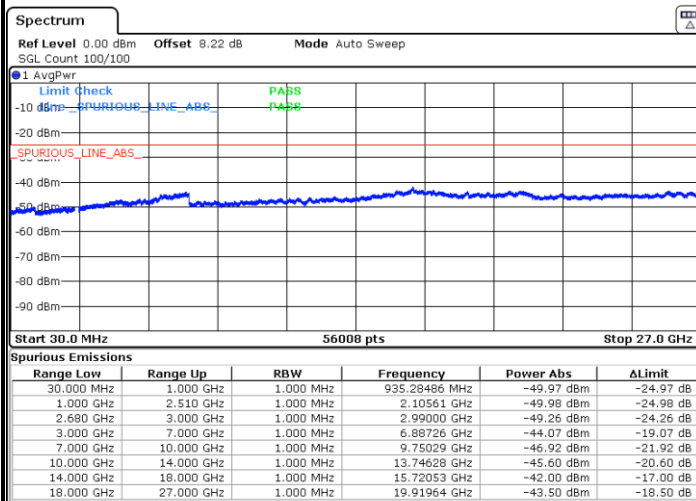
## Highest Channel / 16QAM



Date: 10.AUG.2020 07:36:41

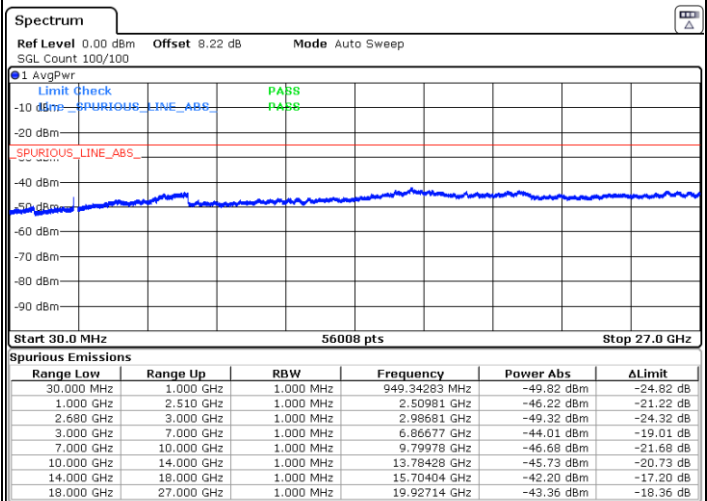
## LTE Band 41 / 10MHz

## Lowest Channel / QPSK



Date: 10.AUG.2020 07:51:27

## Lowest Channel / 16QAM

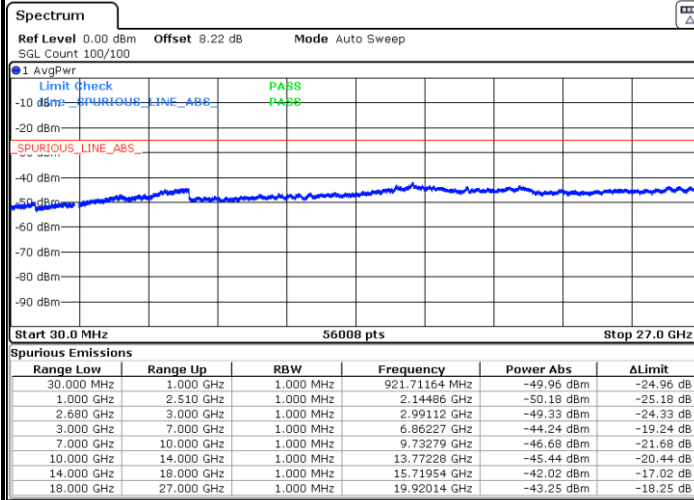


Date: 10.AUG.2020 07:52:28



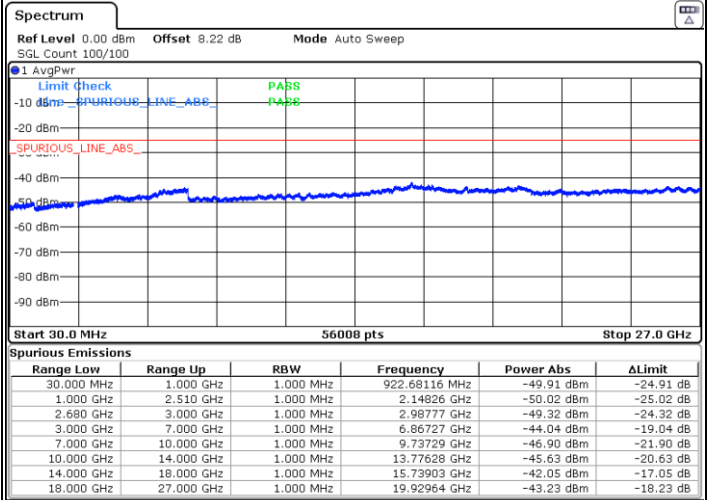
## LTE Band 41 / 10MHz

## Middle Channel / QPSK



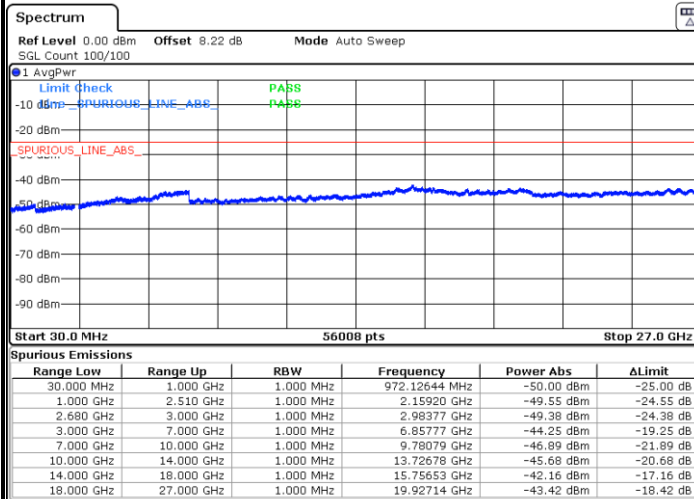
Date: 10.AUG.2020 07:32:29

## Middle Channel / 16QAM



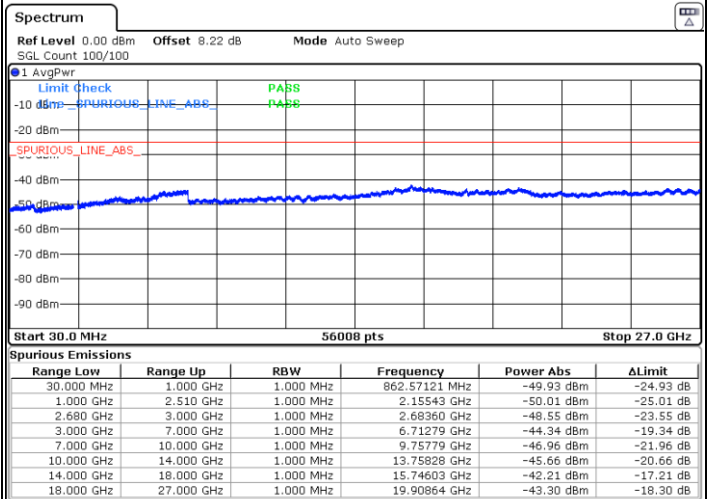
Date: 10.AUG.2020 07:33:24

## Highest Channel / QPSK



Date: 10.AUG.2020 07:38:31

## Highest Channel / 16QAM

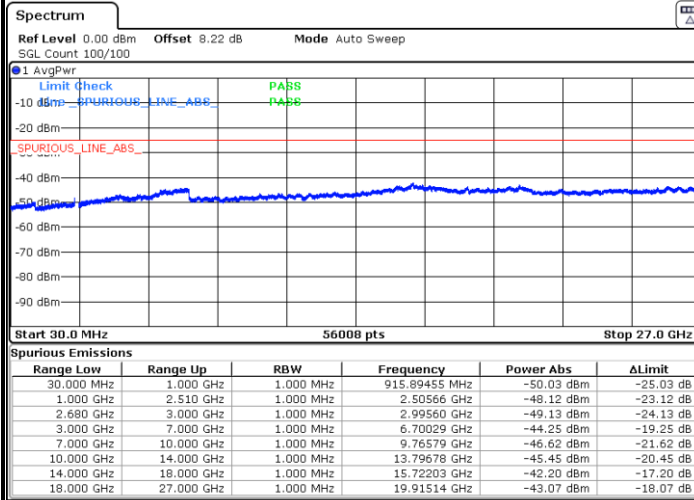


Date: 10.AUG.2020 07:39:40



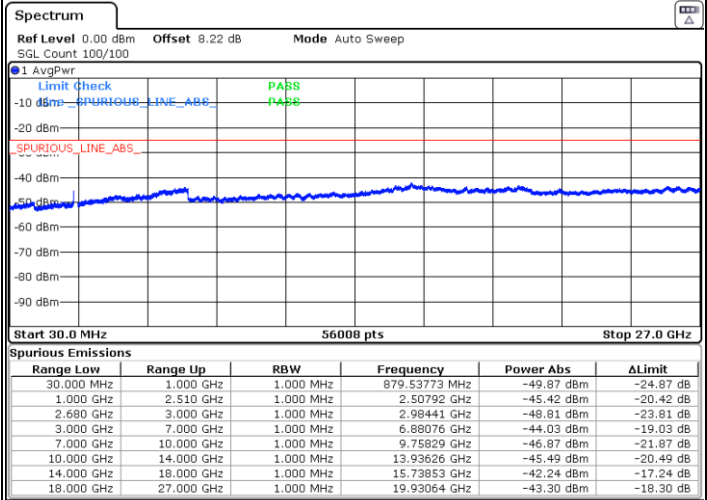
## LTE Band 41 / 15MHz

## Lowest Channel / QPSK



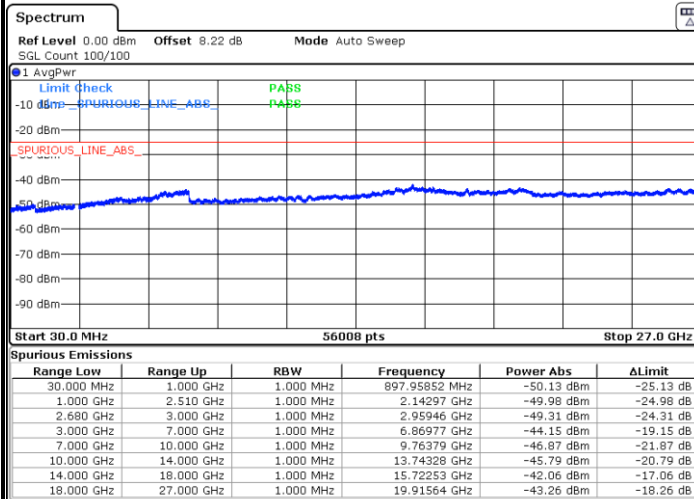
Date: 10.AUG.2020 07:48:16

## Lowest Channel / 16QAM



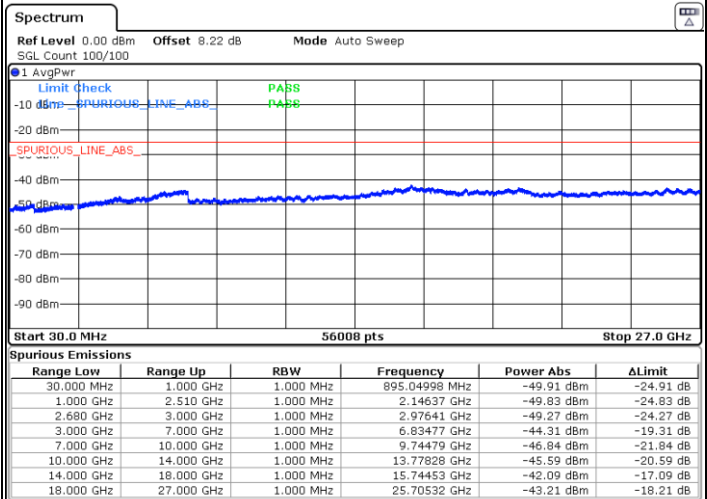
Date: 10.AUG.2020 07:49:28

## Middle Channel / QPSK



Date: 10.AUG.2020 07:28:58

## Middle Channel / 16QAM

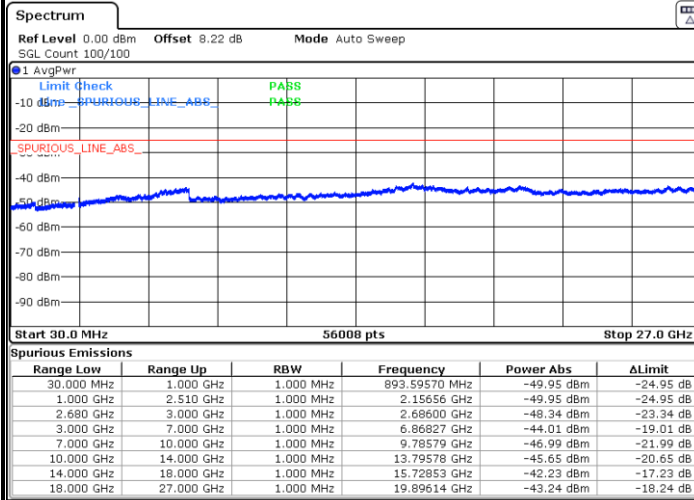


Date: 10.AUG.2020 07:30:22



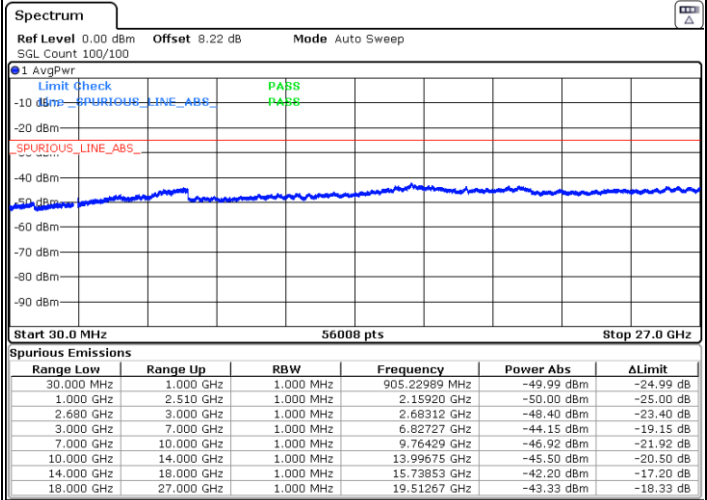
## LTE Band 41 / 15MHz

## Highest Channel / QPSK



Date: 10.AUG.2020 07:42:16

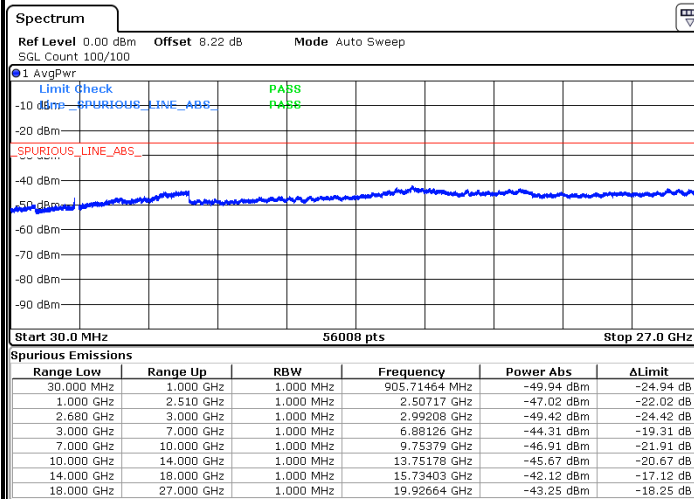
## Highest Channel / 16QAM



Date: 10.AUG.2020 07:43:25

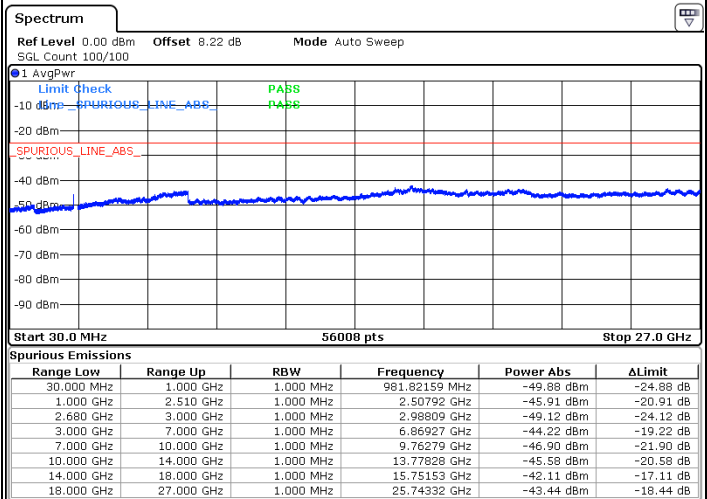
## LTE Band 41 / 20MHz

## Lowest Channel / QPSK



Date: 10.AUG.2020 06:47:44

## Lowest Channel / 16QAM

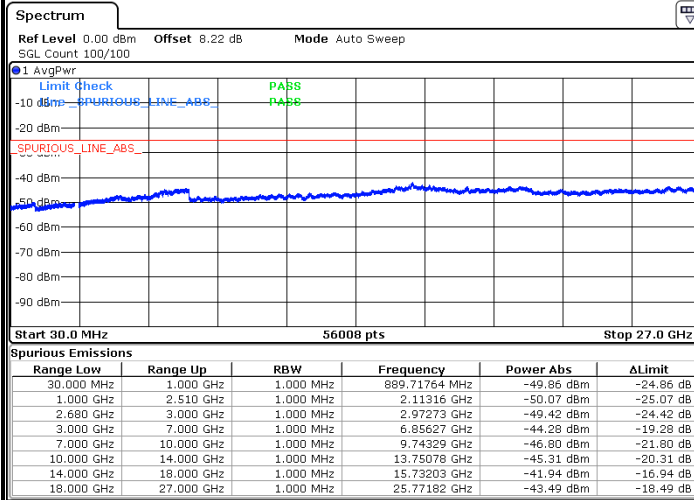


Date: 10.AUG.2020 06:48:56



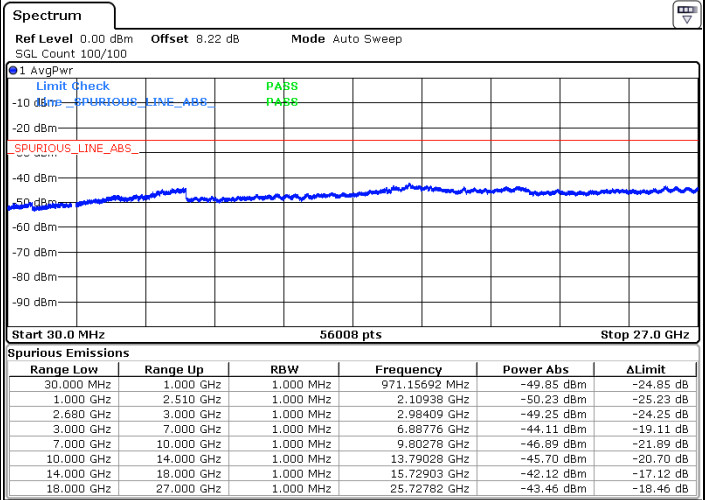
## LTE Band 41 / 20MHz

## Middle Channel / QPSK



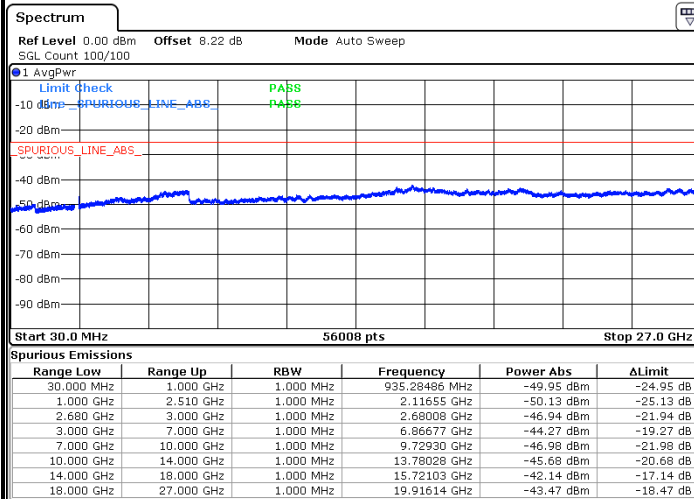
Date: 10.AUG.2020 06:51:20

## Middle Channel / 16QAM



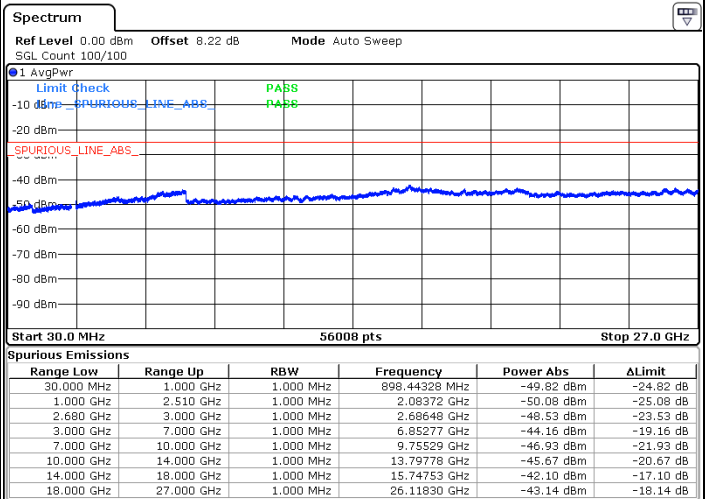
Date: 10.AUG.2020 06:52:20

## Highest Channel / QPSK



Date: 10.AUG.2020 06:44:17

## Highest Channel / 16QAM



Date: 10.AUG.2020 06:45:17

**Frequency Stability**

| Test Conditions  |                   | LTE Band 41 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0020                              | PASS    |
| 40               | Normal Voltage    | 0.0016                              |         |
| 30               | Normal Voltage    | 0.0035                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0027                              |         |
| 0                | Normal Voltage    | 0.0007                              |         |
| -10              | Normal Voltage    | 0.0013                              |         |
| -20              | Normal Voltage    | 0.0040                              |         |
| -30              | Normal Voltage    | 0.0007                              |         |
| 20               | Maximum Voltage   | 0.0009                              |         |
| 20               | Normal Voltage    | 0.0014                              |         |
| 20               | Battery End Point | 0.0013                              |         |

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

| LTE Band 38 / 20MHz / QPSK |                      |                 |                  |                         |                          |                            |                               |                         |
|----------------------------|----------------------|-----------------|------------------|-------------------------|--------------------------|----------------------------|-------------------------------|-------------------------|
| Channel                    | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>( dBi ) | Polarization<br>( H/V ) |
| Lowest                     | 5140                 | -60.13          | -25              | -35.13                  | -66.74                   | 2.79                       | 9.40                          | H                       |
|                            | 7715                 | -60.72          | -25              | -35.72                  | -68.76                   | 3.42                       | 11.46                         | H                       |
|                            | 10287                | -59.36          | -25              | -34.36                  | -67.49                   | 4.00                       | 12.13                         | H                       |
|                            | 5140                 | -62.73          | -25              | -37.73                  | -69.34                   | 2.79                       | 9.40                          | V                       |
|                            | 7715                 | -58.46          | -25              | -33.46                  | -66.50                   | 3.42                       | 11.46                         | V                       |
|                            | 10287                | -58.75          | -25              | -33.75                  | -66.88                   | 4.00                       | 12.13                         | V                       |
| Middle                     | 5170                 | -60.56          | -25              | -35.56                  | -67.17                   | 2.79                       | 9.40                          | H                       |
|                            | 7760                 | -58.67          | -25              | -33.67                  | -66.71                   | 3.42                       | 11.46                         | H                       |
|                            | 10341                | -58.78          | -25              | -33.78                  | -66.91                   | 4.00                       | 12.13                         | H                       |
|                            | 5170                 | -61.95          | -25              | -36.95                  | -68.56                   | 2.79                       | 9.40                          | V                       |
|                            | 7760                 | -56.48          | -25              | -31.48                  | -64.52                   | 3.42                       | 11.46                         | V                       |
|                            | 10341                | -58.50          | -25              | -33.50                  | -66.63                   | 4.00                       | 12.13                         | V                       |
| Highest                    | 5200                 | -59.60          | -25              | -34.60                  | -66.21                   | 2.79                       | 9.40                          | H                       |
|                            | 7805                 | -58.94          | -25              | -33.94                  | -66.98                   | 3.42                       | 11.46                         | H                       |
|                            | 10404                | -58.38          | -25              | -33.38                  | -66.51                   | 4.00                       | 12.13                         | H                       |
|                            | 5200                 | -61.09          | -25              | -36.09                  | -67.70                   | 2.79                       | 9.40                          | V                       |
|                            | 7805                 | -57.09          | -25              | -32.09                  | -65.13                   | 3.42                       | 11.46                         | V                       |
|                            | 10404                | -58.16          | -25              | -33.16                  | -66.29                   | 4.00                       | 12.13                         | V                       |

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



| LTE Band 41 / 20MHz / QPSK |                      |                 |                  |                         |                          |                            |                             |                       |
|----------------------------|----------------------|-----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 5070                 | -61.40          | -25              | -36.40                  | -68.01                   | 2.79                       | 9.40                        | H                     |
|                            | 7610                 | -59.83          | -25              | -34.83                  | -67.87                   | 3.42                       | 11.46                       | H                     |
|                            | 10143                | -59.52          | -25              | -34.52                  | -67.65                   | 4.00                       | 12.13                       | H                     |
|                            | 5072                 | -63.47          | -25              | -38.47                  | -70.08                   | 2.79                       | 9.40                        | V                     |
|                            | 7610                 | -58.96          | -25              | -33.96                  | -67.00                   | 3.42                       | 11.46                       | V                     |
|                            | 10143                | -59.11          | -25              | -34.11                  | -67.24                   | 4.00                       | 12.13                       | V                     |
| Middle                     | 5170                 | -60.20          | -25              | -35.20                  | -66.81                   | 2.79                       | 9.40                        | H                     |
|                            | 7750                 | -59.50          | -25              | -34.50                  | -67.54                   | 3.42                       | 11.46                       | H                     |
|                            | 10332                | -59.00          | -25              | -34.00                  | -67.13                   | 4.00                       | 12.13                       | H                     |
|                            | 5170                 | -61.65          | -25              | -36.65                  | -68.26                   | 2.79                       | 9.40                        | V                     |
|                            | 7750                 | -56.61          | -25              | -31.61                  | -64.65                   | 3.42                       | 11.46                       | V                     |
|                            | 10332                | -58.86          | -25              | -33.86                  | -66.99                   | 4.00                       | 12.13                       | V                     |
| Highest                    | 5270                 | -61.73          | -25              | -36.73                  | -68.34                   | 2.79                       | 9.40                        | H                     |
|                            | 7910                 | -57.15          | -25              | -32.15                  | -65.19                   | 3.42                       | 11.46                       | H                     |
|                            | 10548                | -58.32          | -25              | -33.32                  | -66.45                   | 4.00                       | 12.13                       | H                     |
|                            | 5270                 | -62.36          | -25              | -37.36                  | -68.97                   | 2.79                       | 9.40                        | V                     |
|                            | 7910                 | -57.80          | -25              | -32.80                  | -65.84                   | 3.42                       | 11.46                       | V                     |
|                            | 10548                | -57.98          | -25              | -32.98                  | -66.11                   | 4.00                       | 12.13                       | V                     |

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



## **Appendix D. Reference Report**

Please refer to Sporton report number FG070302-01B which is issued separately.