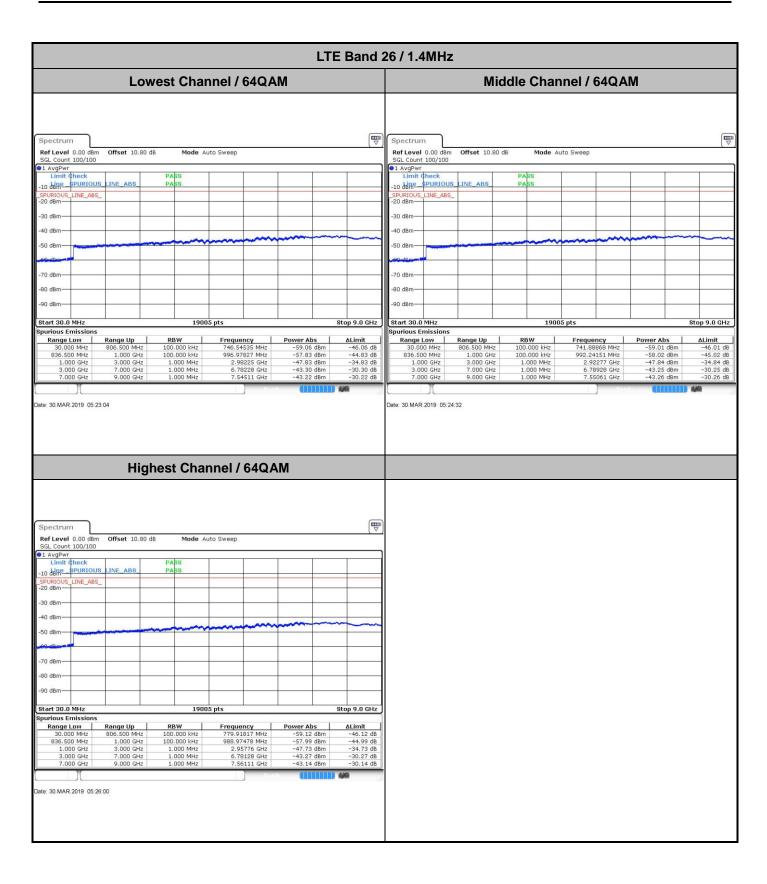


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LTE Band 26 / 3MHz Lowest Channel / 64QAM Middle Channel / 64QAM Spectrum Spectrum Ref Level 0.00 dBm Offset 10.80 dB Ref Level 0.00 dBm Offset 10.80 dB Mode Auto Sweep Mode Auto Sweep SGL Count 100/100 SGL Count 100/100 ●1 AvgPwr Limit ¢h 10 dem SPURIOUS 10 dine SPURIOUS LINE ABS LINE\_ABS\_ LINE\_ABS\_ 20 dBm 20 dBm -30 dBm -30 dBm 40 dBm 40 dBm -50 dBm -50 dBm Start 30.0 MHz Start 30.0 MHz Stop 9.0 GHz rious Emissio Spurious Emissions RBW 100.000 kHz 100.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz Frequency 805.91792 MHz 980.15460 MHz 2.96276 GHz 6.77628 GHz 7.55061 GHz -59.08 dBm -57.88 dBm -57.88 dBm -47.82 dBm -43.21 dBm -43.07 dBm Range Low 30.000 MHz 836,500 MHz 1.000 GHz 3.000 GHz 7.000 GHz RBW 100.000 kHz 100.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz Frequency 725.97839 MHz 991.42483 MHz 2.99075 GHz 6.79328 GHz 7.53112 GHz Power Abs
-59.02 dBm
-59.12 dBm
-47.84 dBm
-42.79 dBm
-43.22 dBm 46.02 dB -45.12 dB -34.84 dB -29.79 dB -30.22 dB Range Low 30.000 MHz 836.500 MHz Range Up 806.500 MHz Range Up 806.500 MHz 1.000 GHz 3.000 GHz 7.000 GHz 9.000 GHz 1.000 GHz 3.000 GHz 7.000 GHz 9.000 GHz ate: 30.MAR.2019 05:09:18 Date: 30.MAR.2019 05:10:45 **Highest Channel / 64QAM** Spectrum Ref Level 0.00 dBm Offset 10.80 dB Mode Auto Sweep SGL Count 100/100 Limit Check

10 dine SPURIOUS LINE ABS 30 dBm 40 dBm -50 dBm 70 dBm 80 dBm Start 30.0 MHz 19005 pts Stop 9.0 GHz rious Emission Range Low 30.000 MHz 836.500 MHz 1.000 GHz 3.000 GHz 7.000 GHz Range Up 806.500 MHz 1.000 MHz 1.000 GHz 3.000 GHz 7.000 GHz 9.000 GHz ate: 30.MAR.2019 05:12:12

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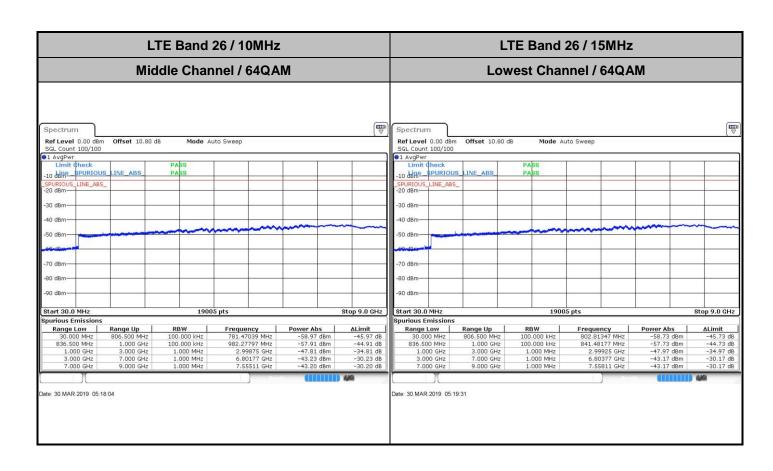
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LTE Band 26 / 5MHz Lowest Channel / 64QAM Middle Channel / 64QAM Spectrum Spectrum Ref Level 0.00 dBm Offset 10.80 dB Ref Level 0.00 dBm Offset 10.80 dB Mode Auto Sweep Mode Auto Sweep SGL Count 100/100 SGL Count 100/100 ●1 AvgPwr Limit ¢h 10 dem SPURIOUS 10 dine SPURIOUS LINE ABS LINE\_ABS\_ LINE\_ABS\_ 20 dBm 20 dBm -30 dBm -30 dBm 40 dBm 40 dBm -50 dBm -50 dBm 70 dBm Start 30.0 MHz Start 30.0 MHz Stop 9.0 GHz rious Emissio Spurious Emissions RBW 100.000 kHz 100.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz Frequency 733.35145 MHz 993.05819 MHz 2.99775 GHz 6.76528 GHz 7.54911 GHz Power Abs
-59.11 dBm
-57.90 dBm
-48.00 dBm
-43.21 dBm
-43.19 dBm -46.11 dB -44.90 dB -35.00 dB -30.21 dB -30.19 dB Range Low 30.000 MHz 836,500 MHz 1.000 GHz 3.000 GHz 7.000 GHz RBW 100.000 kHz 100.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz Power Abs
-59.11 dBm
-59.03 dBm
-47.79 dBm
-43.23 dBm
-43.18 dBm Range Low 30.000 MHz 836.500 MHz Frequency
761.29148 MHz
999.75500 MHz
2.92577 GHz
6.78128 GHz
7.54111 GHz Range Up 806.500 MHz Range Up 806.500 MHz ΔLimit -46.11 dB -45.03 dB -34.79 dB -30.23 dB -30.18 dB 1.000 GHz 3.000 GHz 7.000 GHz 9.000 GHz 1.000 GHz 3.000 GHz 7.000 GHz 9.000 GHz ate: 30.MAR.2019 05:13:40 Date: 30.MAR.2019 05:15:08 **Highest Channel / 64QAM** Spectrum Ref Level 0.00 dBm Offset 10.80 dB Mode Auto Sweep SGL Count 100/100 Limit Check

10 dine SPURIOUS LINE ABS 30 dBm 40 dBm -50 dBm 70 dBm 80 dBm Start 30.0 MHz 19005 pts Stop 9.0 GHz rious Emission Range Low 30.000 MHz 836.500 MHz 1.000 GHz 3.000 GHz 7.000 GHz 790.78373 MHz 995.50824 MHz 2.99075 GHz 6.78678 GHz 7.55511 GHz Range Up 806.500 MHz 1.000 MHz 1.000 GHz 3.000 GHz 7.000 GHz 9.000 GHz ate: 30.MAR.2019 05:16:35

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## Frequency Stability

| Test Conditions     |                   | LTE Band 26 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|-------------------------------------|---------|
| _                   |                   | BW 10MHz                            | Note 2. |
| Temperature<br>(°C) | Voltage<br>(Volt) | Deviation (ppm)                     | Result  |
| 50                  | Normal Voltage    | 0.0035                              |         |
| 40                  | Normal Voltage    | 0.0031                              |         |
| 30                  | Normal Voltage    | 0.0045                              |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                              |         |
| 10                  | Normal Voltage    | 0.0034                              |         |
| 0                   | Normal Voltage    | 0.0048                              |         |
| -10                 | Normal Voltage    | 0.0116                              | PASS    |
| -20                 | Normal Voltage    | 0.0083                              |         |
| -30                 | Normal Voltage    | 0.0065                              |         |
| 20                  | Maximum Voltage   | 0.0089                              |         |
| 20                  | Normal Voltage    | 0.0000                              |         |
| 20                  | Battery End Point | 0.0042                              |         |

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#### Note:

- 1. Normal Voltage =7.6 V.; Battery End Point (BEP) =7.0 V.; Maximum Voltage =8.7 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.

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| Test Conditions     |                   | LTE Band 26 (QPSK) / Low Channel | Limit   |
|---------------------|-------------------|----------------------------------|---------|
| _                   |                   | BW 15MHz                         | Note 2. |
| Temperature<br>(°C) | Voltage<br>(Volt) | Deviation (ppm)                  | Result  |
| 50                  | Normal Voltage    | 0.0088                           |         |
| 40                  | Normal Voltage    | 0.0080                           |         |
| 30                  | Normal Voltage    | 0.0063                           |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                           |         |
| 10                  | Normal Voltage    | 0.0057                           |         |
| 0                   | Normal Voltage    | 0.0044                           |         |
| -10                 | Normal Voltage    | 0.0133                           | PASS    |
| -20                 | Normal Voltage    | 0.0063                           |         |
| -30                 | Normal Voltage    | 0.0144                           |         |
| 20                  | Maximum Voltage   | 0.0083                           |         |
| 20                  | Normal Voltage    | 0.0000                           |         |
| 20                  | Battery End Point | 0.0069                           |         |

#### Note:

- 1. Normal Voltage =7.6 V.; Battery End Point (BEP) =7.0 V.; Maximum Voltage =8.7 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.

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### **Appendix B. Test Results of ERP and Radiated Test**

#### ERP

<Reporting Only>

| <reporting only=""></reporting>                         |          |      |        |             |               |          |        |  |  |  |
|---|----------|------|--------|-------------|---------------|----------|--------|--|--|--|
| LTE Band 26 / 15MHz (Channel 26765) (GT - LC = 2.03 dB) |          |      |        |             |               |          |        |  |  |  |
| Channal   | Mada     | RB   |        | Cond        | lucted        | ERP      |        |  |  |  |
| Channel   | Mode     | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |  |  |  |
| Lowest  |          | 1    | 0      | 23.51       | 0.22          | 23.39    | 0.22   |  |  |  |
| Middle  | QPSK     | -    | -      | -           | -             | -        | -      |  |  |  |
| Highest   |          | -    | -      | -           | -             | -        | -      |  |  |  |
| Lowest  | 16QAM    | 1    | 37     | 22.79       | 0.19          | 22.67    | 0.18   |  |  |  |
| Middle  |          | -    | -      | -           | -             | -        | -      |  |  |  |
| Highest   |          | -    | -      | -           | -             | -        | -      |  |  |  |
| Lowest  |          | 1    | 0      | 21.75       | 0.15          | 21.63    | 0.15   |  |  |  |
| Middle  | 64QAM    | -    | -      | -           | -             | -        | -      |  |  |  |
| Highest   |          | -    | -      | -           | -             | -        | -      |  |  |  |
| Limit   | ERP < 7W |      |        | Re          | sult          | PASS     |        |  |  |  |

Report No. : FG922214C

# **Radiated Spurious Emission**

### LTE Band 26 Part90S

Report No.: FG922214C

| LTE Band 26 / 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) |  |
|                           | 1632                 | -49.80          | -13              | -36.80                  | -60.83                  | -55.59                   | 0.68                       | 8.63                        | Н                     |  |
|                           | 2440                 | -57.37          | -13              | -44.37                  | -73.33                  | -64.99                   | 0.94                       | 10.72                       | Н                     |  |
|                           | 3256                 | -56.67          | -13              | -43.67                  | -74.94                  | -65.09                   | 1.19                       | 11.76                       | Н                     |  |
| Lowest                    |                      |                 |                  |                         |                         |                          |                            |                             | Н                     |  |
| Lowest                    | 1632                 | -49.76          | -13              | -36.76                  | -60.65                  | -55.55                   | 0.68                       | 8.63                        | V                     |  |
|                           | 2440                 | -58.66          | -13              | -45.66                  | -74.69                  | -66.28                   | 0.94                       | 10.72                       | V                     |  |
|                           | 3256                 | -55.08          | -13              | -42.08                  | -73.32                  | -63.50                   | 1.19                       | 11.76                       | V                     |  |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |  |
|                           | 1632                 | -49.41          | -13              | -36.41                  | -60.44                  | -55.20                   | 0.68                       | 8.63                        | Н                     |  |
|                           | 2452                 | -58.47          | -13              | -45.47                  | -74.43                  | -66.11                   | 0.94                       | 10.73                       | Н                     |  |
|                           | 3270                 | -57.34          | -13              | -44.34                  | -75.57                  | -65.79                   | 1.19                       | 11.79                       | Н                     |  |
| N4: el ell e              |                      |                 |                  |                         |                         |                          |                            |                             | Н                     |  |
| Middle                    | 1632                 | -50.75          | -13              | -37.75                  | -61.64                  | -56.54                   | 0.68                       | 8.63                        | V                     |  |
|                           | 2452                 | -58.87          | -13              | -45.87                  | -74.88                  | -66.51                   | 0.94                       | 10.73                       | V                     |  |
|                           | 3270                 | -56.93          | -13              | -43.93                  | -75.08                  | -65.38                   | 1.19                       | 11.79                       | V                     |  |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |  |
|                           | 1640                 | -49.65          | -13              | -36.65                  | -60.71                  | -55.47                   | 0.69                       | 8.66                        | Н                     |  |
|                           | 2463                 | -58.94          | -13              | -45.94                  | -74.9                   | -66.59                   | 0.95                       | 10.75                       | Н                     |  |
|                           | 3288                 | -57.20          | -13              | -44.20                  | -75.38                  | -65.68                   | 1.20                       | 11.83                       | Н                     |  |
| Highest                   |                      |                 |                  |                         |                         |                          |                            |                             | Н                     |  |
|                           | 1640                 | -50.06          | -13              | -37.06                  | -60.99                  | -55.88                   | 0.69                       | 8.66                        | V                     |  |
|                           | 2463                 | -58.60          | -13              | -45.60                  | -74.58                  | -66.25                   | 0.95                       | 10.75                       | V                     |  |
|                           | 3288                 | -56.02          | -13              | -43.02                  | -74.07                  | -64.50                   | 1.20                       | 11.83                       | V                     |  |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |  |

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

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|         | LTE Band 26 / 10MHz / QPSK |              |                  |                         |                         |                          |                      |                             |                       |  |
|---------|----------------------------|--------------|------------------|-------------------------|-------------------------|--------------------------|----------------------|-----------------------------|-----------------------|--|
| Channel | Frequency<br>( MHz )       | ERP<br>(dBm) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable loss ( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |  |
|         | 1632                       | -49.72       | -13              | -36.72                  | -60.75                  | -55.51                   | 0.68                 | 8.63                        | Н                     |  |
|         | 3256                       | -57.79       | -13              | -44.79                  | -76.06                  | -66.21                   | 1.19                 | 11.76                       | Н                     |  |
|         | 4888                       | -53.49       | -13              | -40.49                  | -76.77                  | -62.10                   | 1.91                 | 12.68                       | Н                     |  |
|         |                            |              |                  |                         |                         |                          |                      |                             | Н                     |  |
|         |                            |              |                  |                         |                         |                          |                      |                             | Н                     |  |
|         |                            |              |                  |                         |                         |                          |                      |                             | Н                     |  |
| Middle  |                            |              |                  |                         |                         |                          |                      |                             | Н                     |  |
| Middle  | 1632                       | -49.76       | -13              | -36.76                  | -60.65                  | -55.55                   | 0.68                 | 8.63                        | V                     |  |
|         | 3256                       | -56.20       | -13              | -43.20                  | -74.44                  | -64.62                   | 1.19                 | 11.76                       | V                     |  |
|         | 4888                       | -52.11       | -13              | -39.11                  | -75.44                  | -60.72                   | 1.91                 | 12.68                       | V                     |  |
|         |                            |              |                  |                         |                         |                          |                      |                             | V                     |  |
|         |                            |              |                  |                         |                         |                          |                      |                             | V                     |  |
|         |                            |              |                  |                         |                         |                          |                      |                             | V                     |  |
|         |                            |              |                  |                         |                         |                          |                      |                             | V                     |  |

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

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|         | LTE Band 26 / 15MHz / QPSK |              |                  |                         |                         |                          |                    |                             |                       |  |
|---------|----------------------------|--------------|------------------|-------------------------|-------------------------|--------------------------|--------------------|-----------------------------|-----------------------|--|
| Channel | Frequency<br>( MHz )       | ERP<br>(dBm) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable loss (dB) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |  |
|         | 1632                       | -48.69       | -13              | -35.69                  | -59.72                  | -54.48                   | 0.68               | 8.63                        | Н                     |  |
|         | 2448                       | -56.96       | -13              | -43.96                  | -72.93                  | -64.59                   | 0.94               | 10.73                       | Н                     |  |
|         | 3259                       | -55.97       | -13              | -42.97                  | -74.23                  | -64.40                   | 1.19               | 11.77                       | Н                     |  |
|         |                            |              |                  |                         |                         |                          |                    |                             | Н                     |  |
|         |                            |              |                  |                         |                         |                          |                    |                             | Н                     |  |
|         |                            |              |                  |                         |                         |                          |                    |                             | Н                     |  |
| Lowest  |                            |              |                  |                         |                         |                          |                    |                             | Н                     |  |
| Lowest  | 1632                       | -48.83       | -13              | -35.83                  | -59.72                  | -54.62                   | 0.68               | 8.63                        | V                     |  |
|         | 2448                       | -58.56       | -13              | -45.56                  | -74.58                  | -66.19                   | 0.94               | 10.73                       | V                     |  |
|         | 3259                       | -54.55       | -13              | -41.55                  | -72.77                  | -62.98                   | 1.19               | 11.77                       | V                     |  |
|         |                            |              |                  |                         |                         |                          |                    |                             | V                     |  |
|         |                            |              |                  |                         |                         |                          |                    |                             | V                     |  |
|         |                            | ·            | _                |                         |                         |                          |                    |                             | V                     |  |
|         |                            |              |                  |                         |                         |                          |                    |                             | V                     |  |

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

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