



## Conducted Spurious Emission

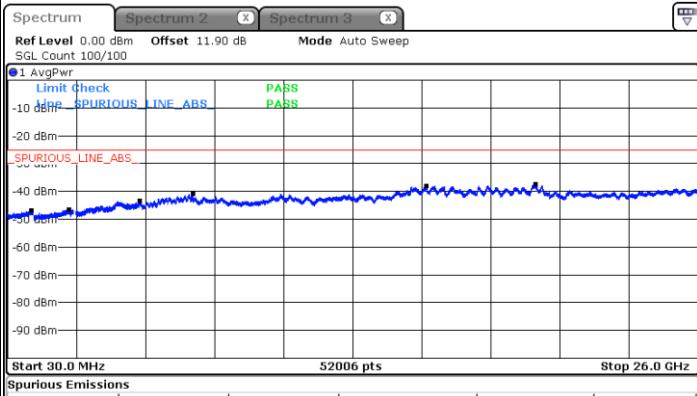
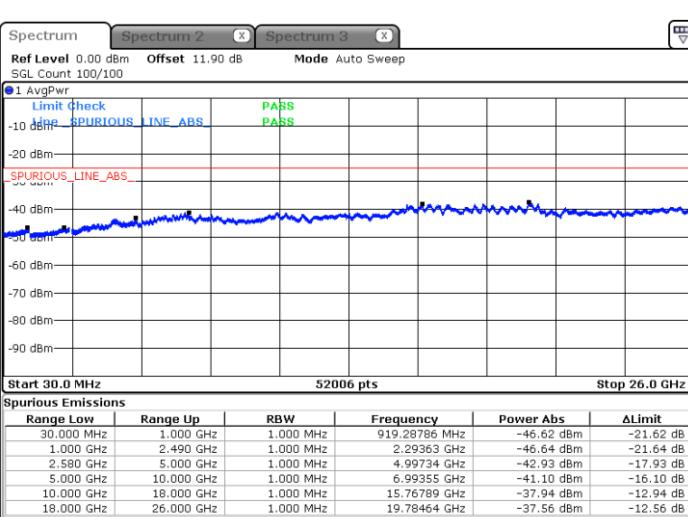




## LTE Band 7 / 5MHz

## Highest Channel / QPSK

## Highest Channel / 16QAM

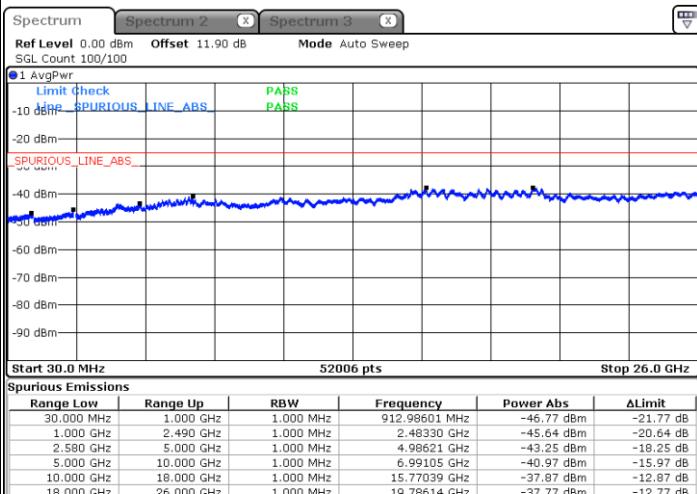
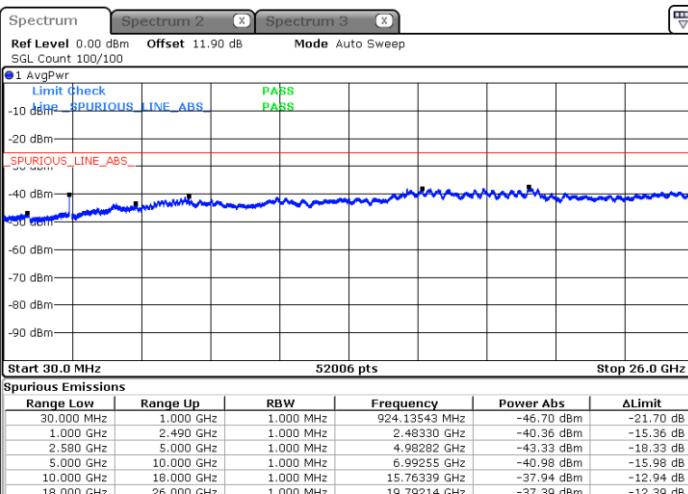


Date: 2.AUG.2017 14:11:28

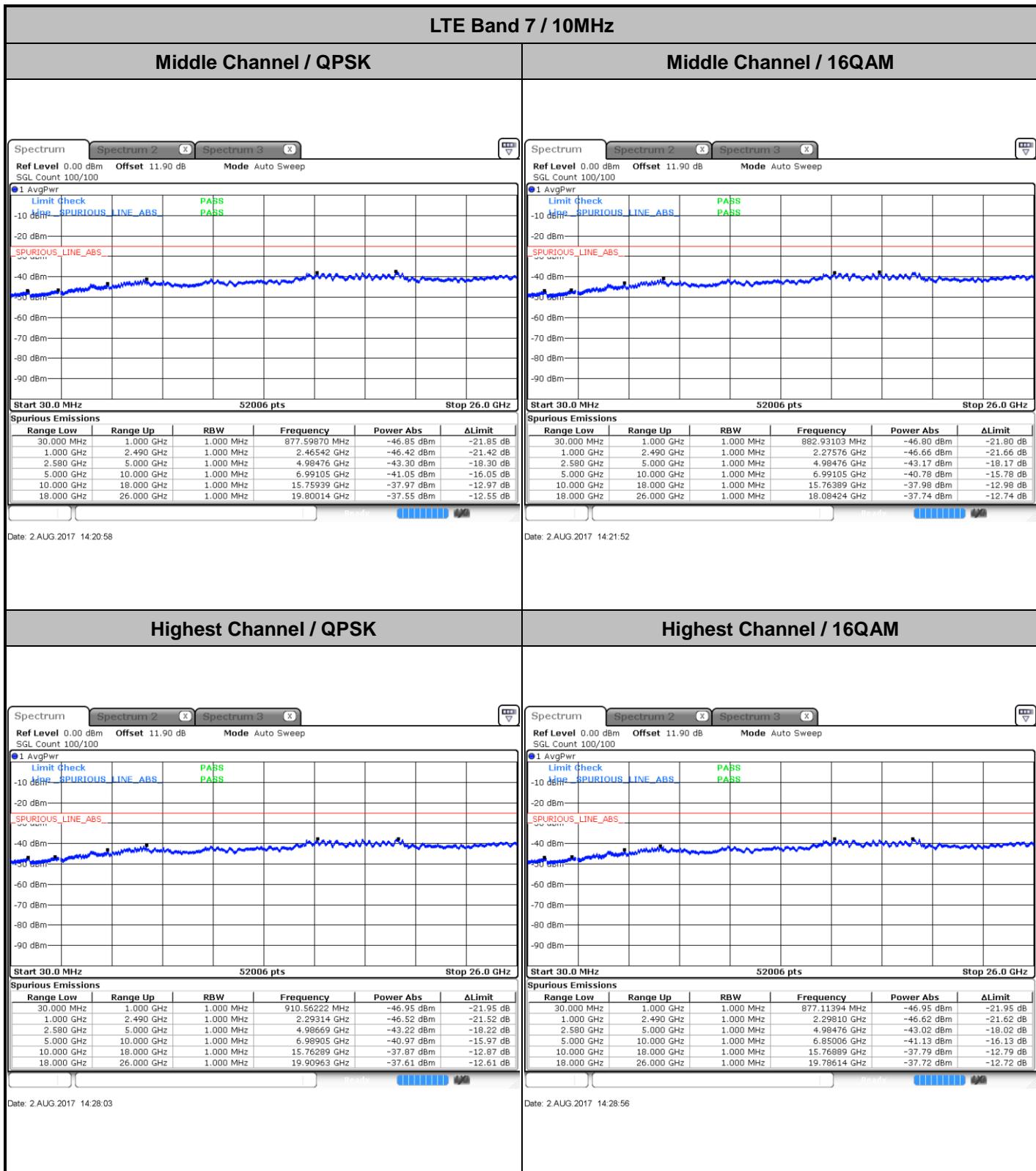
## LTE Band 7 / 10MHz

## Lowest Channel / QPSK

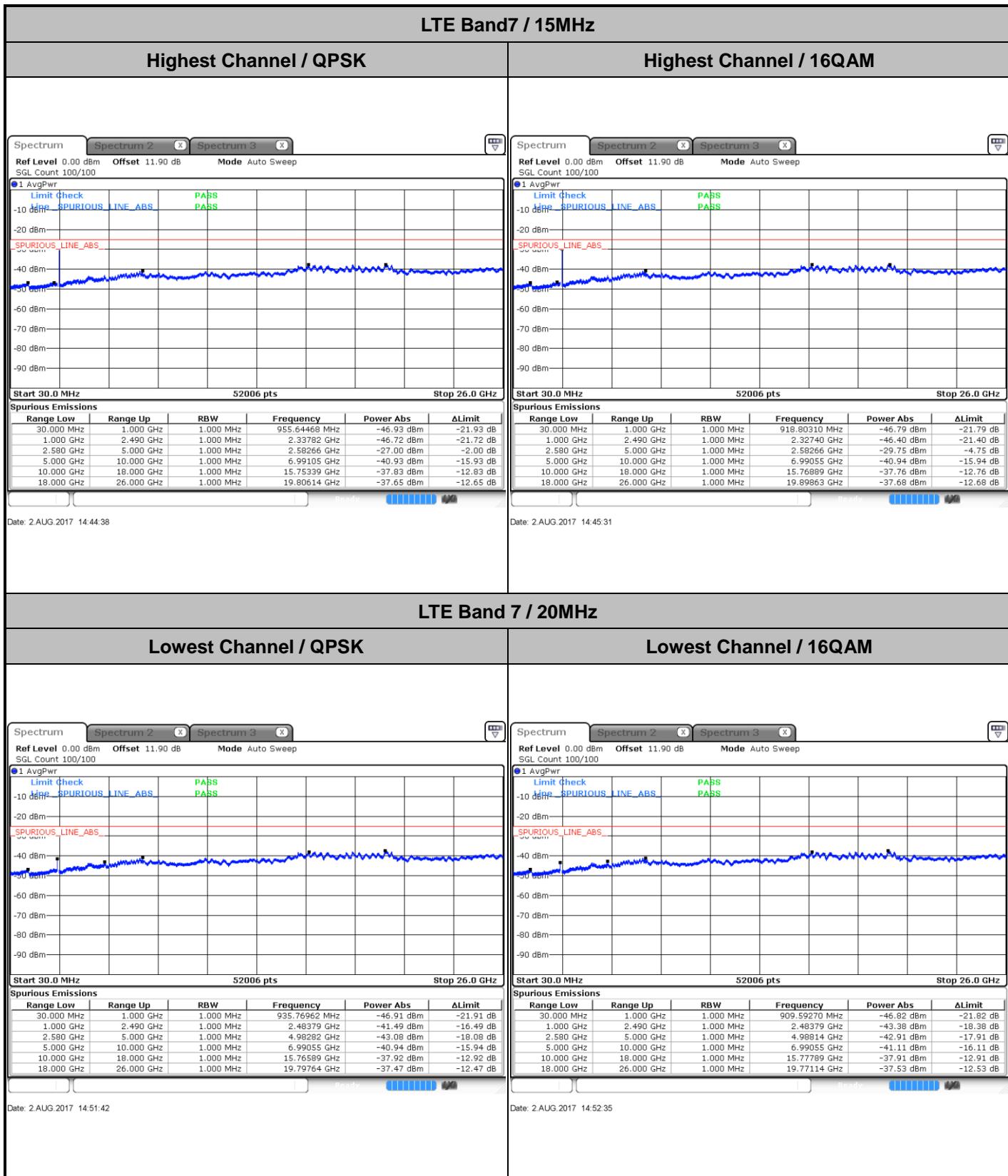
## Lowest Channel / 16QAM



Date: 2.AUG.2017 14:19:25











## Frequency Stability

| 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    | 0.0091                             | PASS    |
| 40                  | Normal Voltage    | 0.0088                             |         |
| 30                  | Normal Voltage    | 0.0002                             |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                             |         |
| 10                  | Normal Voltage    | 0.0096                             |         |
| 0                   | Normal Voltage    | 0.0092                             |         |
| -10                 | Normal Voltage    | 0.0092                             |         |
| -20                 | Normal Voltage    | 0.0008                             |         |
| -30                 | Normal Voltage    | 0.0010                             |         |
| 20                  | Maximum Voltage   | 0.0090                             |         |
| 20                  | Normal Voltage    | 0.0000                             |         |
| 20                  | Battery End Point | 0.0009                             |         |

**Note:**

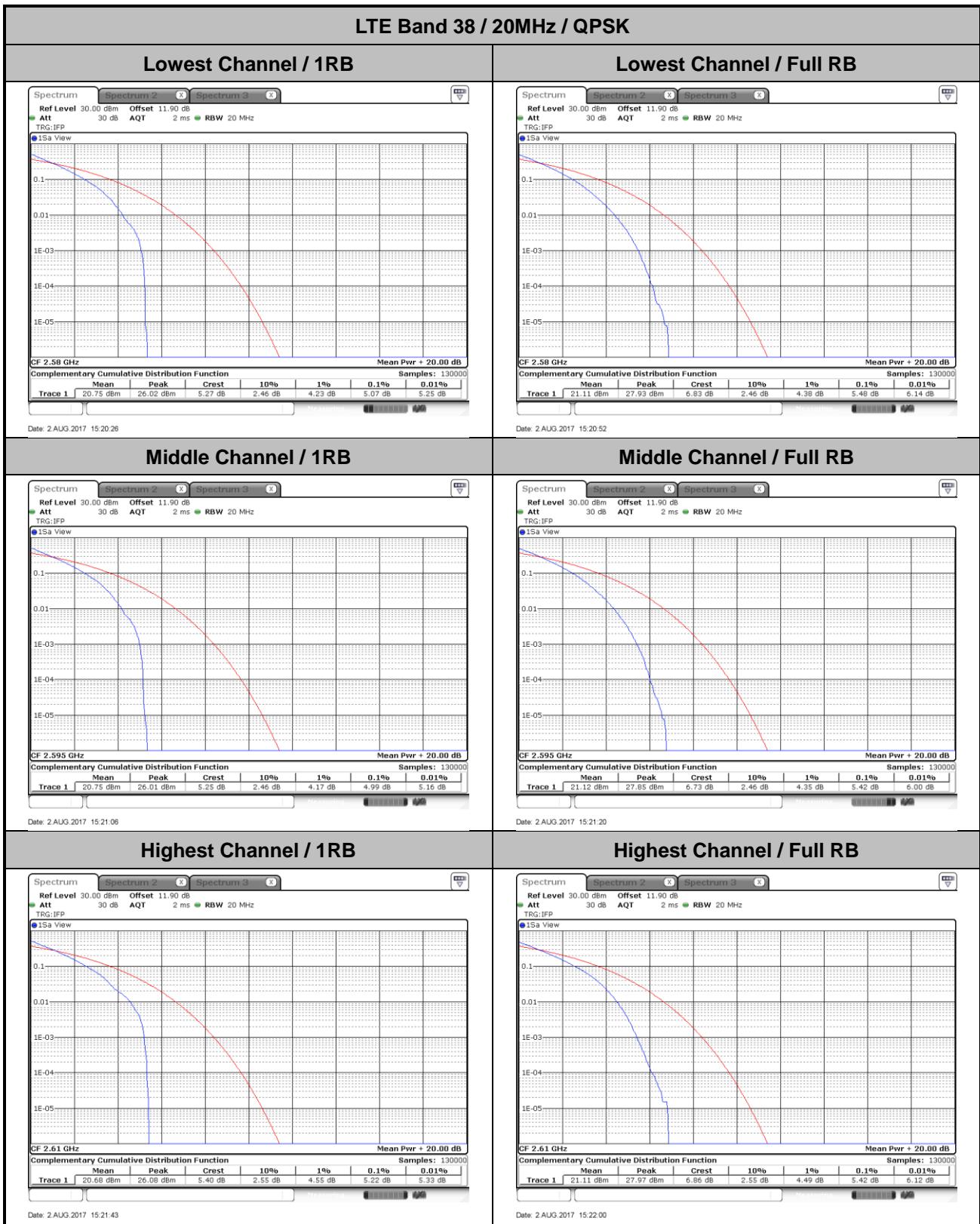
1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

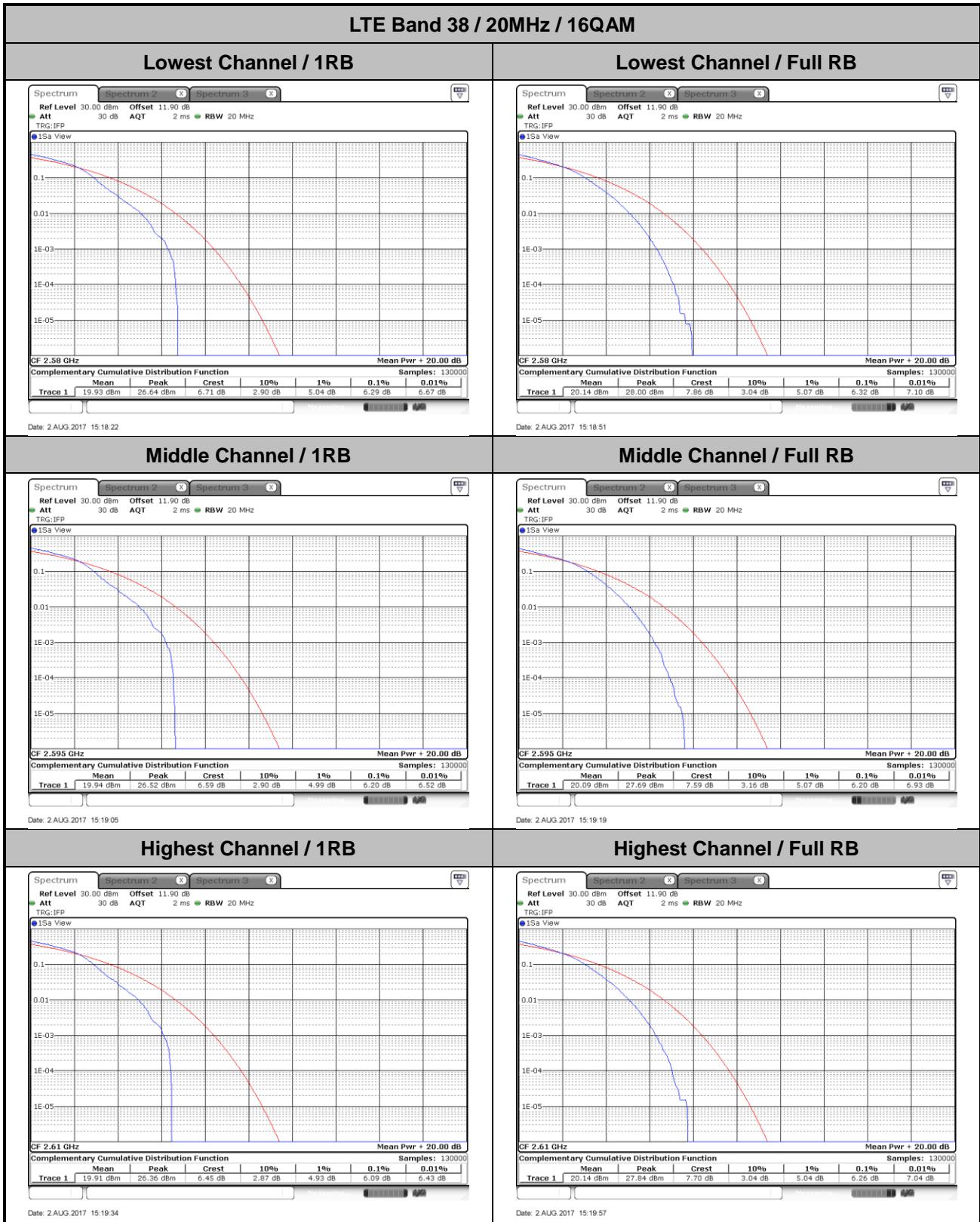


## LTE Band 38

### Peak-to-Average Ratio

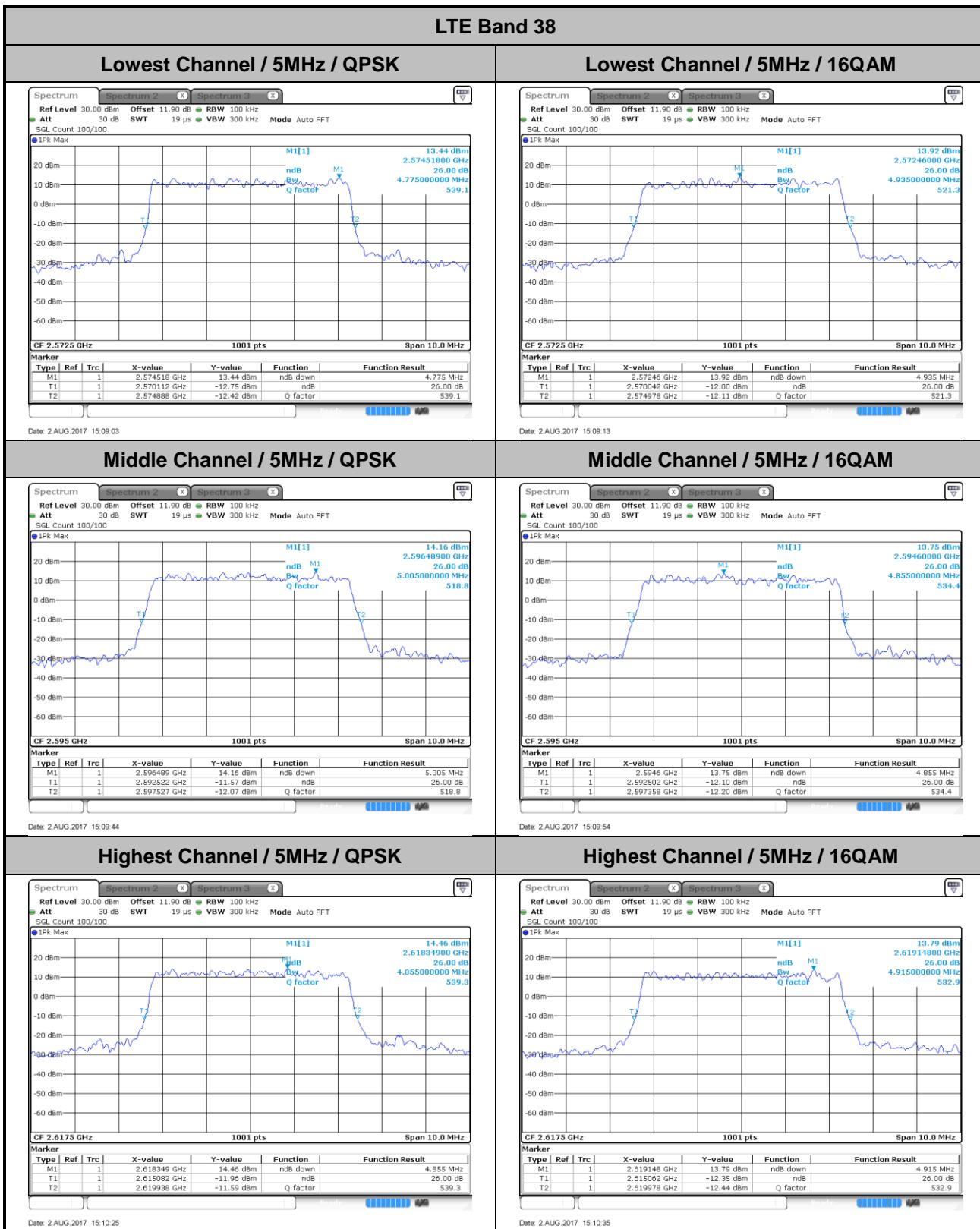
| Mode       | LTE Band 38 / 20MHz |         |       |         |             |
|------------|---------------------|---------|-------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 5.07                | 5.48    | 6.29  | 6.32    |             |
| Middle CH  | 4.99                | 5.42    | 6.2   | 6.2     | PASS        |
| Highest CH | 5.22                | 5.42    | 6.09  | 6.26    |             |

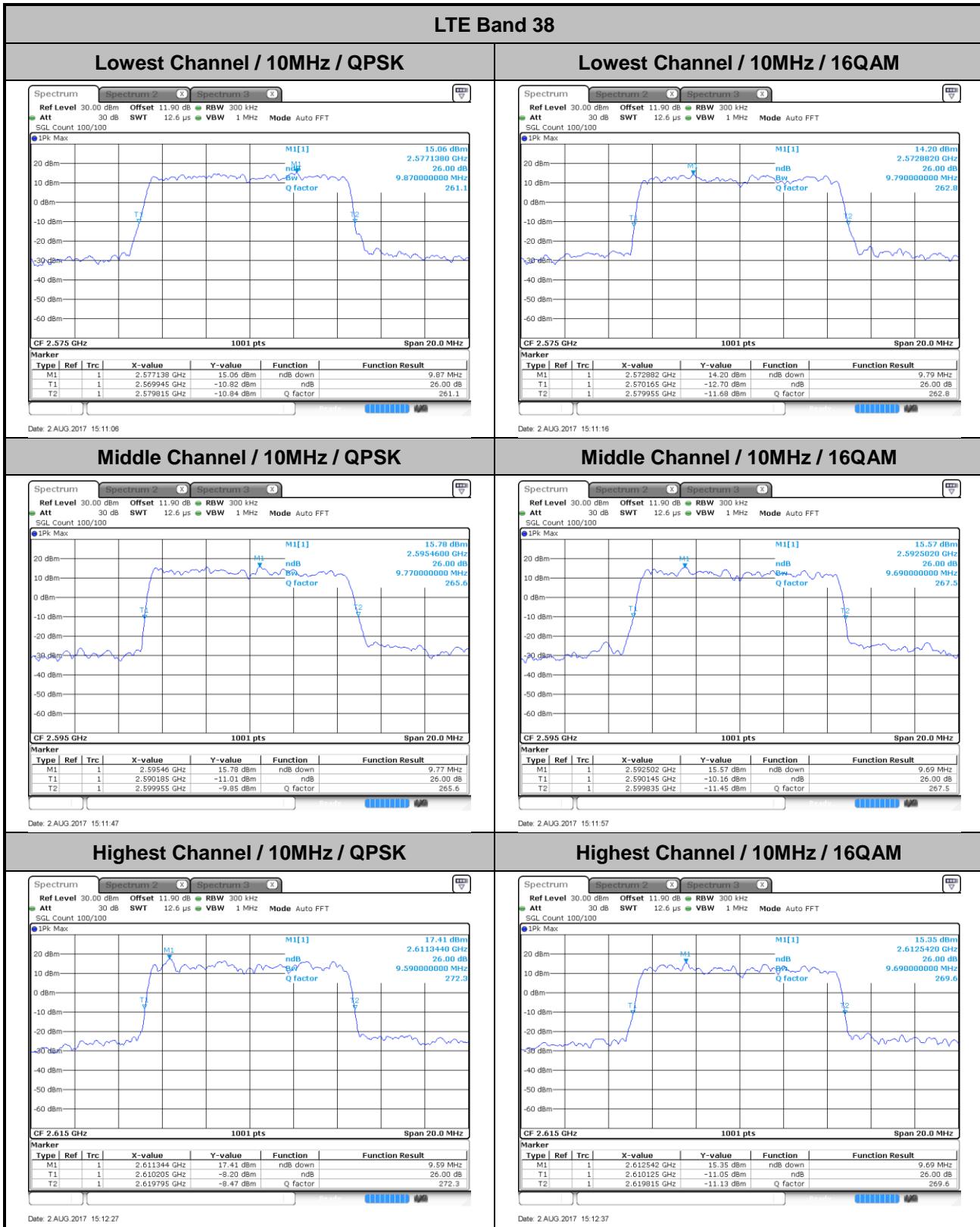


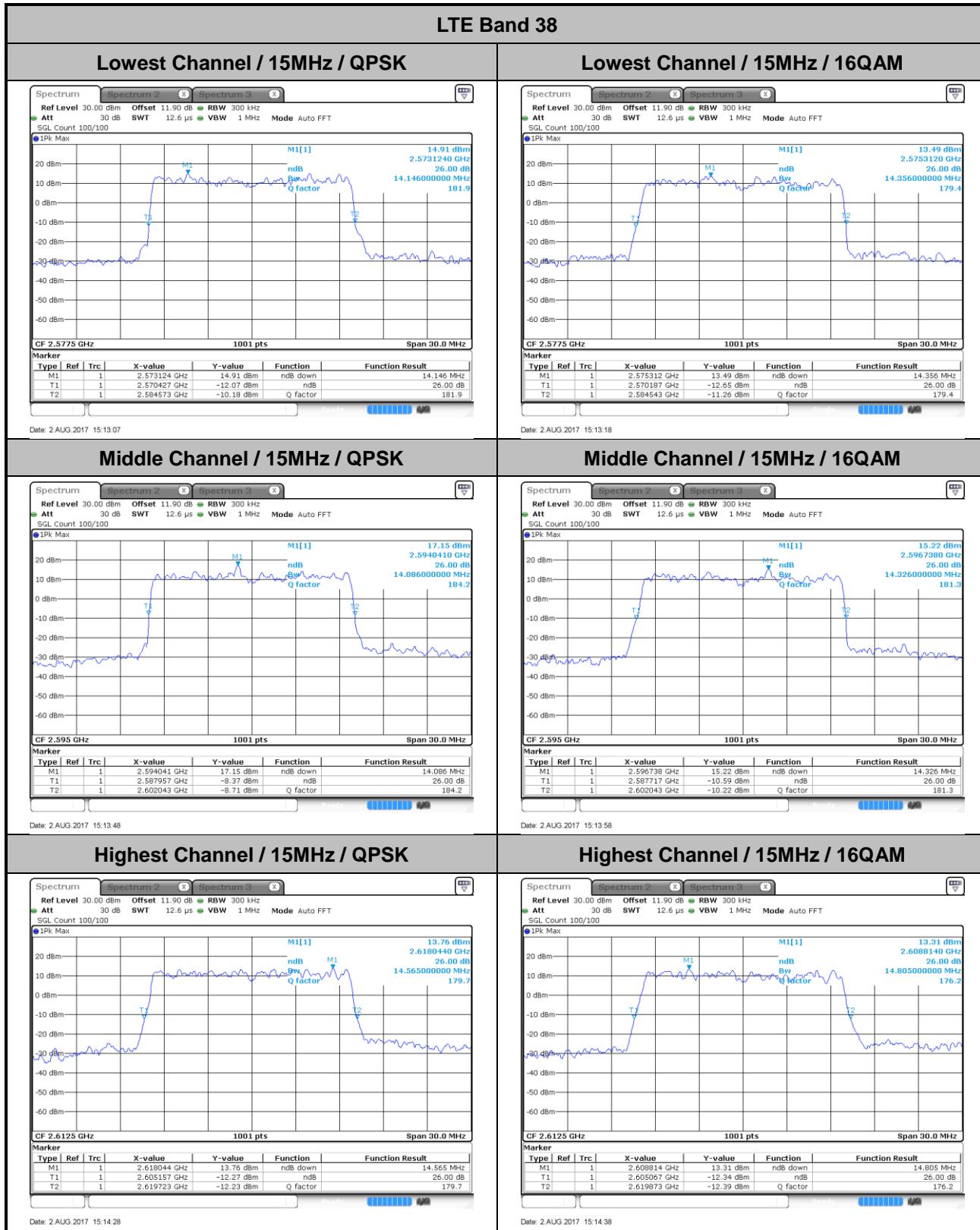


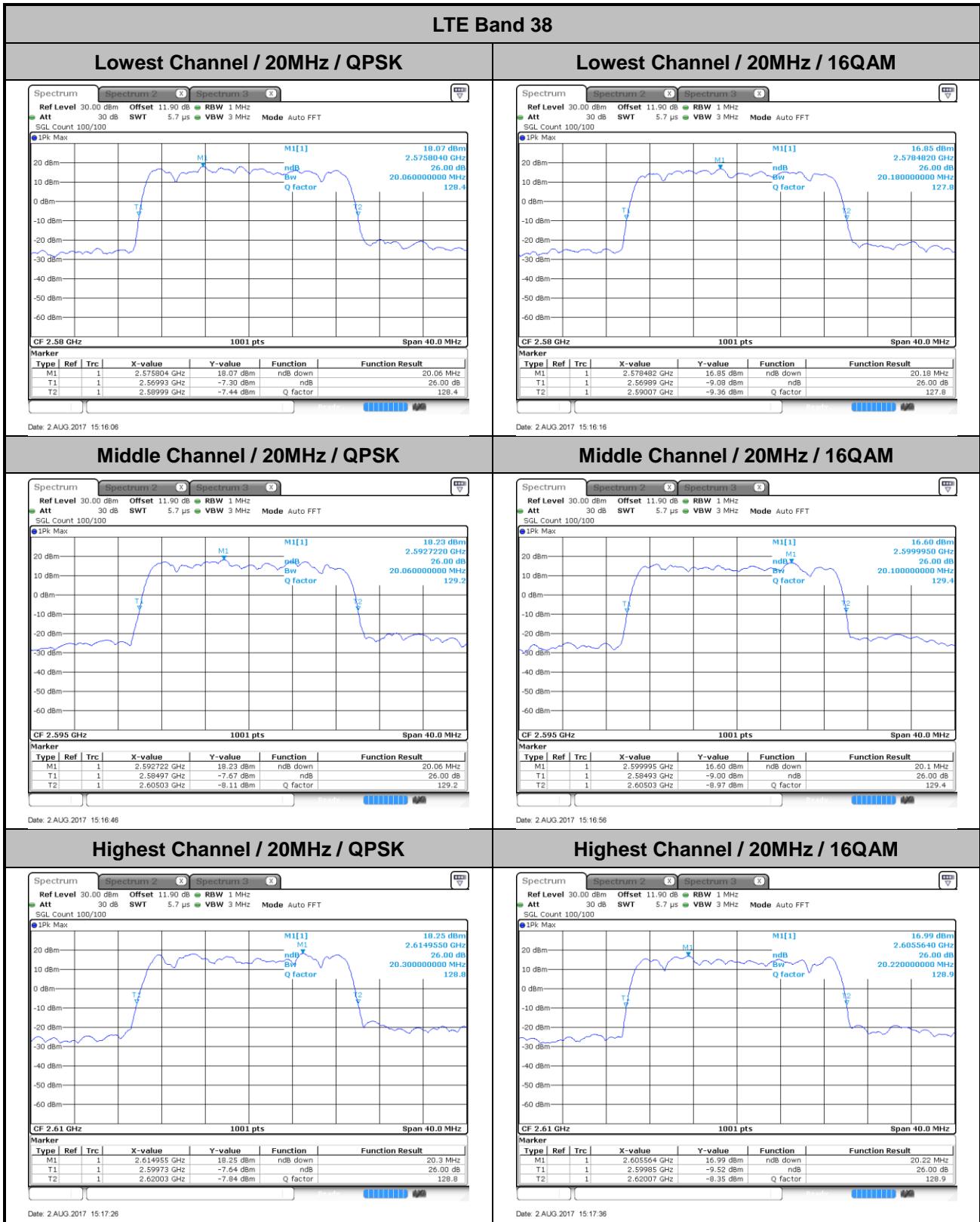
**26dB Bandwidth**

| Mode       | LTE Band 38 : 26dB BW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|----------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
|            | 1.4MHz                     |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                       | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                          | -     | -    | -     | 4.78 | 4.94  | 9.87  | 9.79  | 14.15 | 14.36 | 20.06 | 20.18 |
| Middle CH  | -                          | -     | -    | -     | 5.01 | 4.86  | 9.77  | 9.69  | 14.09 | 14.33 | 20.06 | 20.10 |
| Highest CH | -                          | -     | -    | -     | 4.86 | 4.92  | 9.59  | 9.69  | 14.57 | 14.81 | 20.30 | 20.22 |



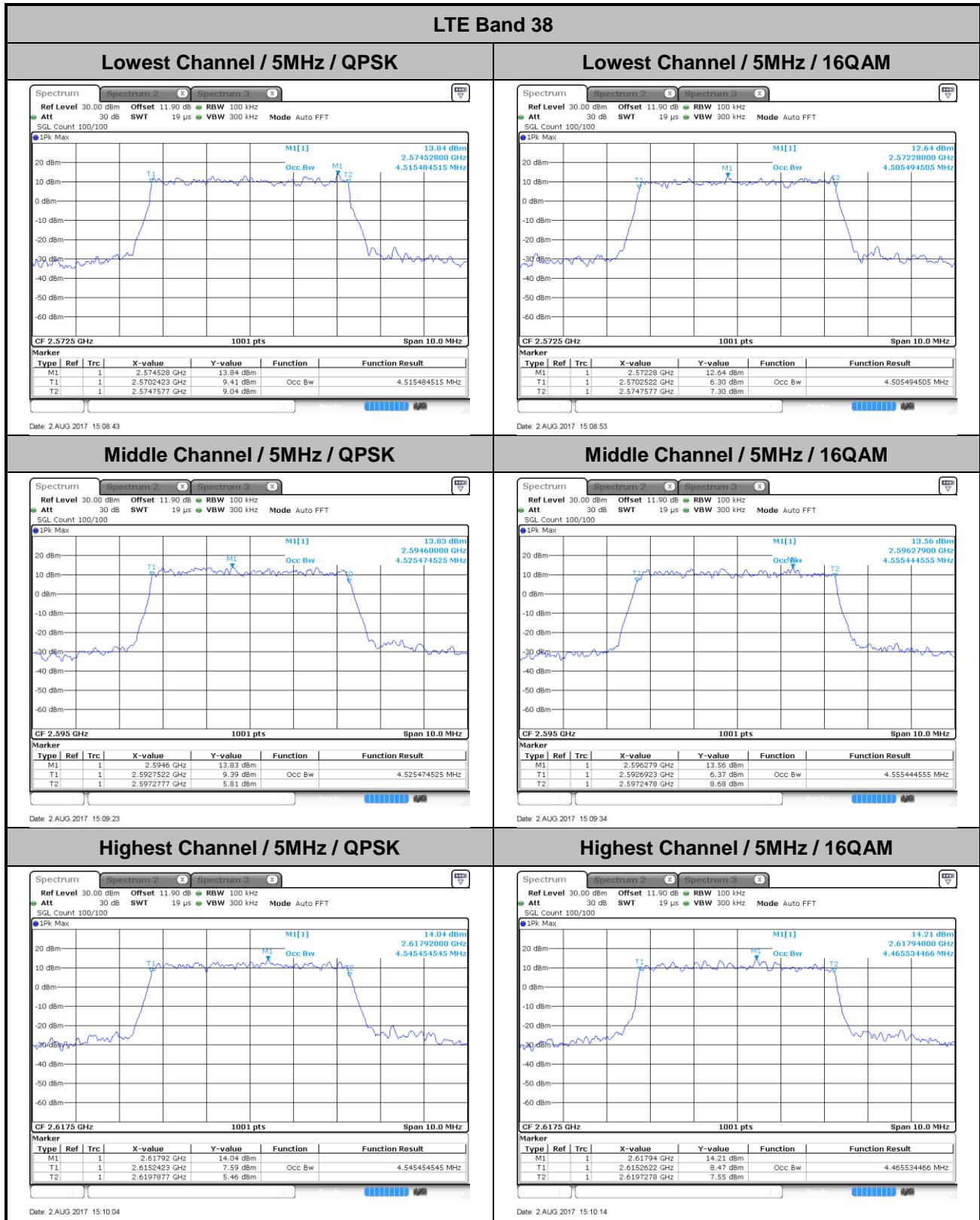


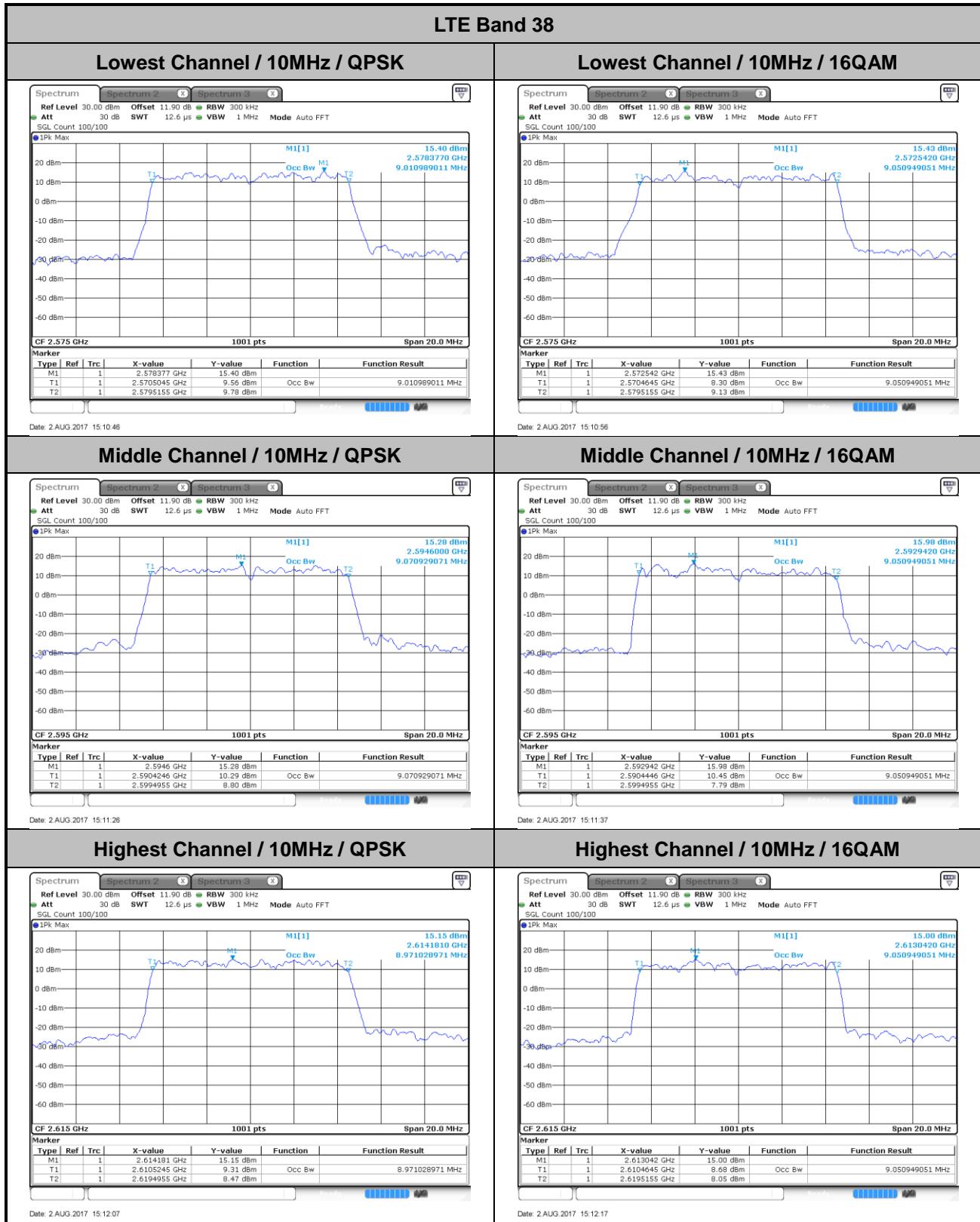


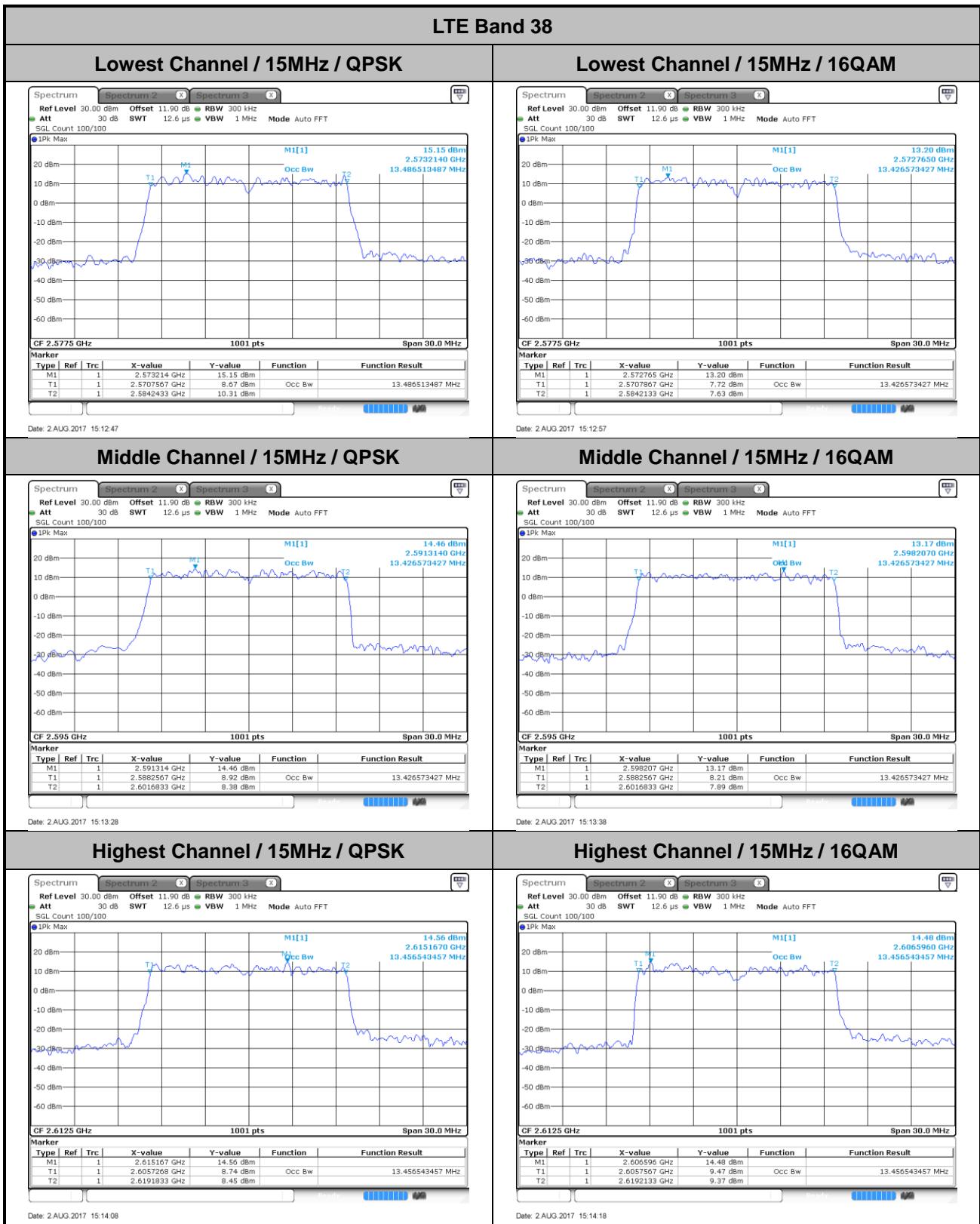


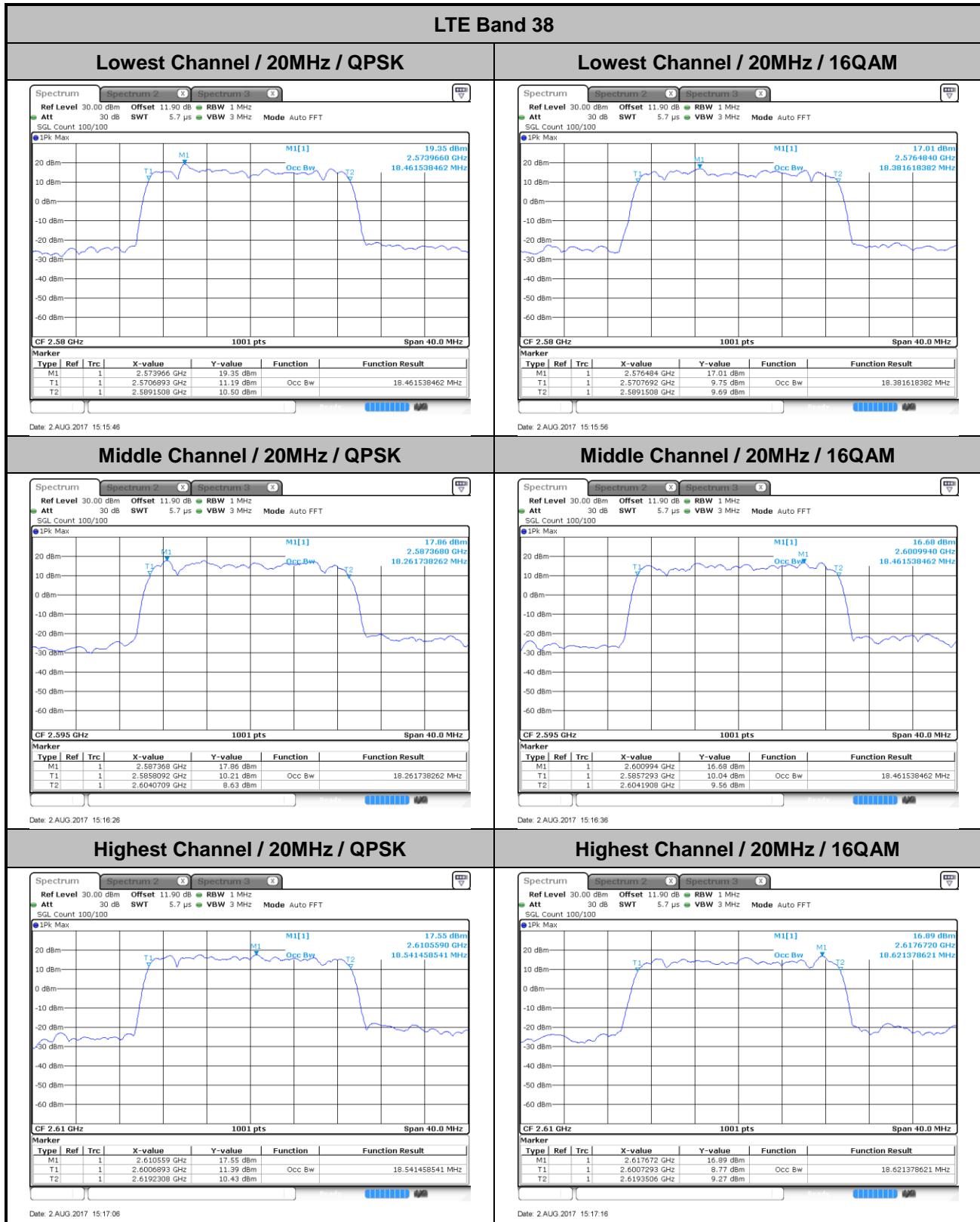
**Occupied Bandwidth**

| Mode       | LTE Band 38 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
|            | 1.4MHz                    |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                      | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                         | -     | -    | -     | 4.52 | 4.51  | 9.01  | 9.05  | 13.49 | 13.43 | 18.46 | 18.38 |
| Middle CH  | -                         | -     | -    | -     | 4.53 | 4.56  | 9.07  | 9.05  | 13.43 | 13.43 | 18.26 | 18.46 |
| Highest CH | -                         | -     | -    | -     | 4.55 | 4.47  | 8.97  | 9.05  | 13.46 | 13.46 | 18.54 | 18.62 |











## Conducted Band Edge

