

Fig.3

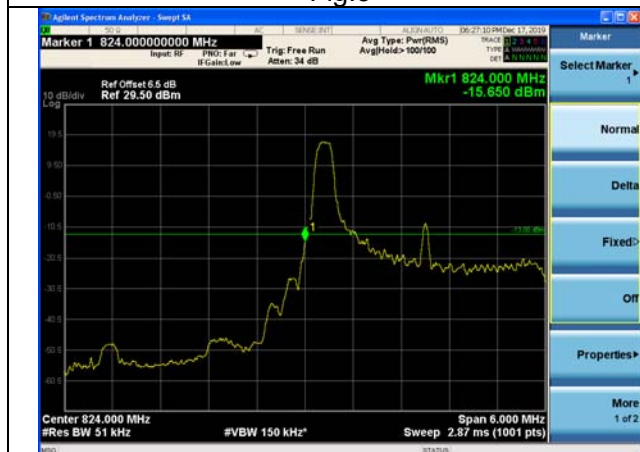


Fig.4

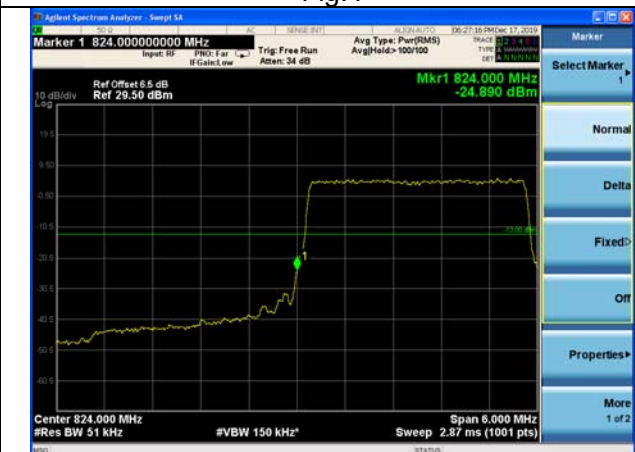


Fig.5

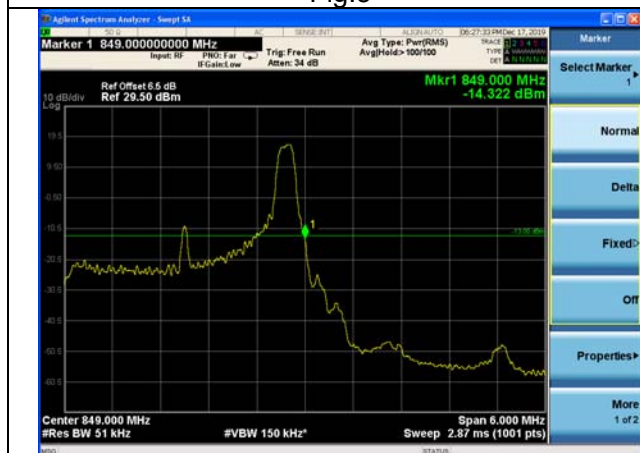


Fig.6



Fig.7

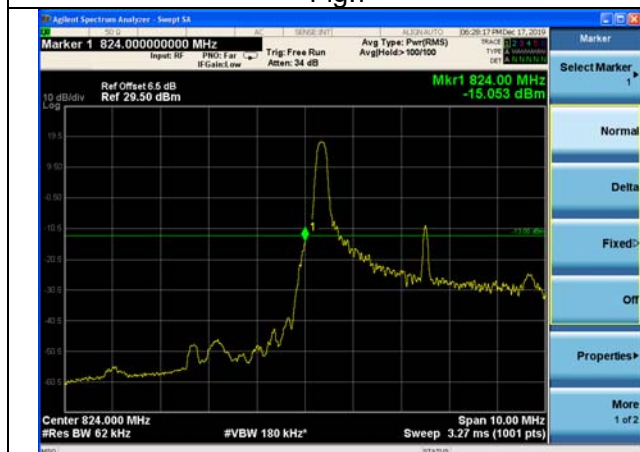


Fig.8

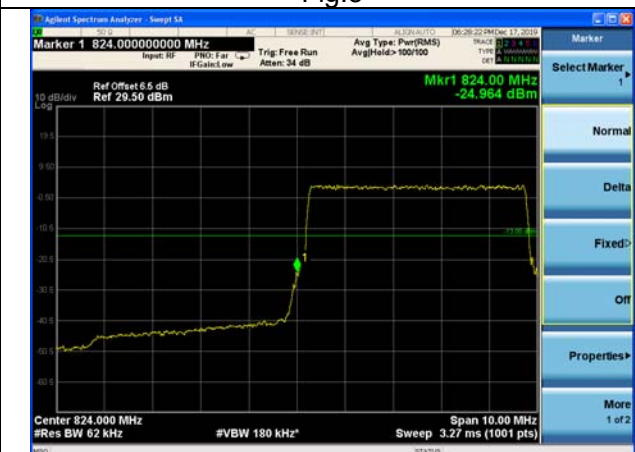


Fig.9

Fig.10

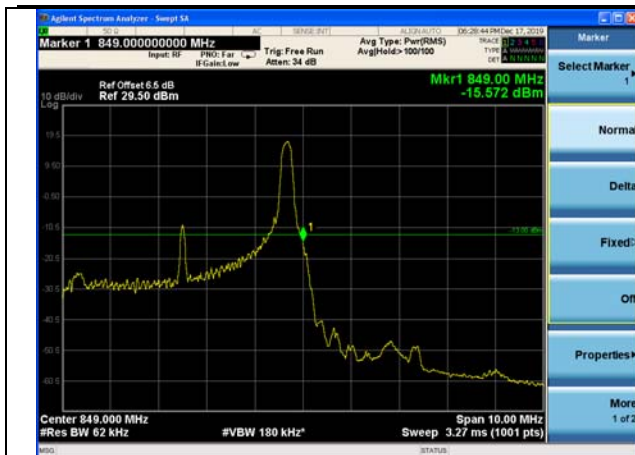


Fig.11



Fig.12

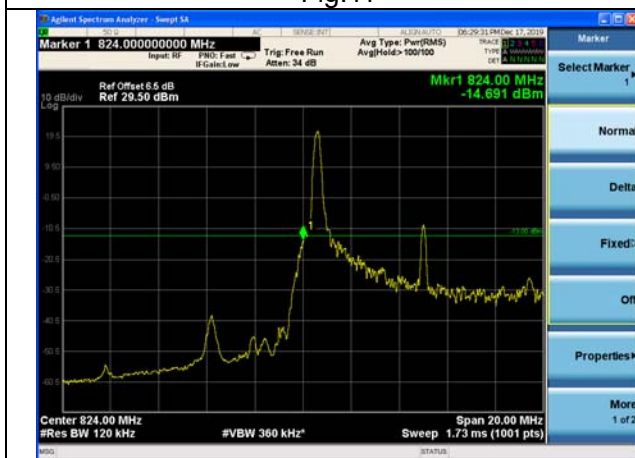


Fig.13



Fig.14

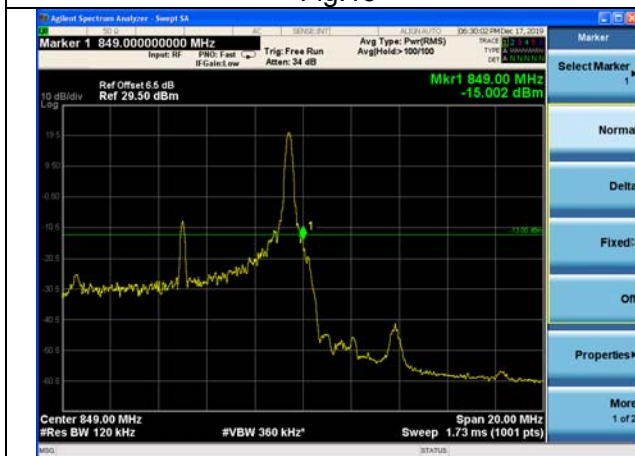


Fig.15



Fig.16

## 6 Frequency Stability

Test result:

| Temperature(°C) | Voltage | Test Result (ppm) Band5 Low Channel |        |        |        |
|-----------------|---------|-------------------------------------|--------|--------|--------|
|                 |         | 1.4M                                | 3M     | 5M     | 10M    |
| -10             | NV      | -0.083                              | 0.029  | -0.064 | 0.097  |
| 0               | NV      | 0.024                               | -0.070 | 0.067  | 0.068  |
| +10             | NV      | -0.061                              | 0.013  | 0.043  | 0.033  |
| +20             | NV      | 0.000                               | 0.000  | 0.000  | 0.000  |
| +30             | NV      | 0.090                               | -0.048 | -0.021 | -0.099 |
| +40             | NV      | -0.098                              | -0.026 | -0.034 | -0.054 |
| +50             | NV      | -0.006                              | -0.004 | 0.007  | 0.089  |
| +55             | NV      | 0.095                               | -0.100 | -0.058 | 0.034  |
| +20             | LV      | -0.034                              | 0.073  | -0.079 | -0.089 |
| +20             | HV      | -0.025                              | 0.037  | -0.048 | -0.060 |

| Temperature(°C) | Voltage | Test Result (ppm) Band5 High Channel |        |        |        |
|-----------------|---------|--------------------------------------|--------|--------|--------|
|                 |         | 1.4M                                 | 3M     | 5M     | 10M    |
| -10             | NV      | 0.027                                | -0.016 | 0.034  | -0.084 |
| 0               | NV      | -0.084                               | -0.012 | -0.004 | 0.033  |
| +10             | NV      | 0.050                                | -0.080 | 0.012  | -0.079 |
| +20             | NV      | 0.000                                | 0.000  | 0.000  | 0.000  |
| +30             | NV      | -0.032                               | 0.032  | -0.058 | -0.094 |
| +40             | NV      | 0.034                                | -0.060 | -0.098 | 0.075  |
| +50             | NV      | 0.036                                | 0.023  | 0.074  | -0.085 |
| +55             | NV      | 0.042                                | 0.022  | 0.061  | 0.012  |
| +20             | LV      | -0.011                               | 0.038  | -0.007 | 0.047  |
| +20             | HV      | 0.087                                | -0.070 | 0.088  | 0.033  |

## APPENDIX A – TEST DATA OF CONDUCTED EMISSION

### LTE Band 7

#### 1 RF Power Output

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 2502.5                  | 20775      | 5  | 1       | 0         | 22.79                 |
|            |                         |            |    | 1       | 24        | 22.78                 |
|            |                         |            |    | 12      | 6         | 21.02                 |
|            |                         |            |    | 25      | 0         | 21.55                 |
|            | 2535                    | 21100      |    | 1       | 0         | 22.89                 |
|            |                         |            |    | 1       | 24        | 22.85                 |
|            |                         |            |    | 12      | 6         | 20.72                 |
|            |                         |            |    | 25      | 0         | 20.94                 |
|            | 2567.5                  | 21425      |    | 1       | 0         | 23.10                 |
|            |                         |            |    | 1       | 24        | 23.21                 |
|            |                         |            |    | 12      | 6         | 20.76                 |
|            |                         |            |    | 25      | 0         | 21.93                 |
| 16QAM      | 2502.5                  | 20775      | 5  | 1       | 0         | 21.38                 |
|            |                         |            |    | 1       | 24        | 21.37                 |
|            |                         |            |    | 12      | 6         | 20.52                 |
|            |                         |            |    | 25      | 0         | 21.02                 |
|            | 2535                    | 21100      |    | 1       | 0         | 21.37                 |
|            |                         |            |    | 1       | 24        | 21.37                 |
|            |                         |            |    | 12      | 6         | 20.42                 |
|            |                         |            |    | 25      | 0         | 20.53                 |
|            | 2567.5                  | 21425      |    | 1       | 0         | 21.50                 |
|            |                         |            |    | 1       | 24        | 21.59                 |
|            |                         |            |    | 12      | 6         | 20.29                 |
|            |                         |            |    | 25      | 0         | 20.21                 |
| 64QAM      | 2502.5                  | 20775      | 5  | 1       | 0         | 21.42                 |
|            |                         |            |    | 1       | 24        | 21.41                 |
|            |                         |            |    | 12      | 6         | 20.46                 |
|            |                         |            |    | 25      | 0         | 21.06                 |
|            | 2535                    | 21100      |    | 1       | 0         | 21.36                 |
|            |                         |            |    | 1       | 24        | 21.42                 |
|            |                         |            |    | 12      | 6         | 20.47                 |
|            |                         |            |    | 25      | 0         | 20.62                 |
|            | 2567.5                  | 21425      |    | 1       | 0         | 21.63                 |
|            |                         |            |    | 1       | 24        | 21.60                 |
|            |                         |            |    | 12      | 6         | 20.34                 |
|            |                         |            |    | 25      | 0         | 20.20                 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 2505                    | 20800      | 10 | 1       | 0         | 22.87                 |
|            |                         |            |    | 1       | 49        | 22.89                 |
|            |                         |            |    | 24      | 12        | 21.02                 |
|            |                         |            |    | 50      | 0         | 21.59                 |
|            | 2535                    | 21100      |    | 1       | 0         | 22.88                 |
|            |                         |            |    | 1       | 49        | 22.91                 |
|            |                         |            |    | 24      | 12        | 20.80                 |
|            |                         |            |    | 50      | 0         | 21.05                 |
|            | 2565                    | 21400      |    | 1       | 0         | 23.12                 |
|            |                         |            |    | 1       | 49        | 23.09                 |
|            |                         |            |    | 24      | 12        | 20.79                 |
|            |                         |            |    | 50      | 0         | 21.84                 |
| 16QAM      | 2505                    | 20800      | 10 | 1       | 0         | 21.41                 |
|            |                         |            |    | 1       | 49        | 21.33                 |
|            |                         |            |    | 24      | 12        | 20.47                 |
|            |                         |            |    | 50      | 0         | 20.99                 |
|            | 2535                    | 21100      |    | 1       | 0         | 21.38                 |
|            |                         |            |    | 1       | 49        | 21.32                 |
|            |                         |            |    | 24      | 12        | 20.32                 |
|            |                         |            |    | 50      | 0         | 20.59                 |
|            | 2565                    | 21400      |    | 1       | 0         | 21.61                 |
|            |                         |            |    | 1       | 49        | 21.54                 |
|            |                         |            |    | 24      | 12        | 20.22                 |
|            |                         |            |    | 50      | 0         | 20.23                 |
| 64QAM      | 2505                    | 20800      | 10 | 1       | 0         | 21.32                 |
|            |                         |            |    | 1       | 49        | 21.39                 |
|            |                         |            |    | 24      | 12        | 20.51                 |
|            |                         |            |    | 50      | 0         | 21.04                 |
|            | 2535                    | 21100      |    | 1       | 0         | 21.38                 |
|            |                         |            |    | 1       | 49        | 21.39                 |
|            |                         |            |    | 24      | 12        | 20.41                 |
|            |                         |            |    | 50      | 0         | 20.59                 |
|            | 2565                    | 21400      |    | 1       | 0         | 21.64                 |
|            |                         |            |    | 1       | 49        | 21.62                 |
|            |                         |            |    | 24      | 12        | 20.26                 |
|            |                         |            |    | 50      | 0         | 20.17                 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 2507.5                  | 20825      | 15 | 1       | 0         | 22.88                 |
|            |                         |            |    | 1       | 74        | 22.83                 |
|            |                         |            |    | 40      | 18        | 20.99                 |
|            |                         |            |    | 75      | 0         | 21.56                 |
|            | 2535                    | 21100      |    | 1       | 0         | 22.85                 |
|            |                         |            |    | 1       | 74        | 22.89                 |
|            |                         |            |    | 40      | 18        | 20.74                 |
|            |                         |            |    | 75      | 0         | 21.04                 |
|            | 2562.5                  | 21375      |    | 1       | 0         | 23.13                 |
|            |                         |            |    | 1       | 74        | 23.19                 |
|            |                         |            |    | 40      | 18        | 20.67                 |
|            |                         |            |    | 75      | 0         | 21.87                 |
| 16QAM      | 2507.5                  | 20825      | 15 | 1       | 0         | 21.33                 |
|            |                         |            |    | 1       | 74        | 21.38                 |
|            |                         |            |    | 40      | 18        | 20.49                 |
|            |                         |            |    | 75      | 0         | 20.96                 |
|            | 2535                    | 21100      |    | 1       | 0         | 21.29                 |
|            |                         |            |    | 1       | 74        | 21.38                 |
|            |                         |            |    | 40      | 18        | 20.28                 |
|            |                         |            |    | 75      | 0         | 20.44                 |
|            | 2562.5                  | 21375      |    | 1       | 0         | 21.61                 |
|            |                         |            |    | 1       | 74        | 21.57                 |
|            |                         |            |    | 40      | 18        | 20.21                 |
|            |                         |            |    | 75      | 0         | 20.27                 |
| 64QAM      | 2507.5                  | 20825      | 15 | 1       | 0         | 21.36                 |
|            |                         |            |    | 1       | 74        | 21.41                 |
|            |                         |            |    | 40      | 18        | 20.50                 |
|            |                         |            |    | 75      | 0         | 21.04                 |
|            | 2535                    | 21100      |    | 1       | 0         | 21.41                 |
|            |                         |            |    | 1       | 74        | 21.44                 |
|            |                         |            |    | 40      | 18        | 20.43                 |
|            |                         |            |    | 75      | 0         | 20.63                 |
|            | 2562.5                  | 21375      |    | 1       | 0         | 21.56                 |
|            |                         |            |    | 1       | 74        | 21.59                 |
|            |                         |            |    | 40      | 18        | 20.31                 |
|            |                         |            |    | 75      | 0         | 20.24                 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 2510                    | 20850      | 20 | 1       | 0         | 22.91                 |
|            |                         |            |    | 1       | 99        | 22.91                 |
|            |                         |            |    | 50      | 25        | 21.11                 |
|            |                         |            |    | 100     | 0         | 21.60                 |
|            | 2535                    | 21100      |    | 1       | 0         | 22.96                 |
|            |                         |            |    | 1       | 99        | 22.96                 |
|            |                         |            |    | 50      | 25        | 20.81                 |
|            |                         |            |    | 100     | 0         | 21.09                 |
|            | 2560                    | 21350      |    | 1       | 0         | 23.23                 |
|            |                         |            |    | 1       | 99        | 23.23                 |
|            |                         |            |    | 50      | 25        | 20.82                 |
|            |                         |            |    | 100     | 0         | 21.96                 |
| 16QAM      | 2510                    | 20850      | 20 | 1       | 0         | 21.41                 |
|            |                         |            |    | 1       | 99        | 21.41                 |
|            |                         |            |    | 50      | 25        | 20.56                 |
|            |                         |            |    | 100     | 0         | 21.05                 |
|            | 2535                    | 21100      |    | 1       | 0         | 21.41                 |
|            |                         |            |    | 1       | 99        | 21.41                 |
|            |                         |            |    | 50      | 25        | 20.42                 |
|            |                         |            |    | 100     | 0         | 20.59                 |
|            | 2560                    | 21350      |    | 1       | 0         | 21.64                 |
|            |                         |            |    | 1       | 99        | 21.64                 |
|            |                         |            |    | 50      | 25        | 20.32                 |
|            |                         |            |    | 100     | 0         | 20.30                 |
| 64QAM      | 2510                    | 20850      | 20 | 1       | 0         | 21.43                 |
|            |                         |            |    | 1       | 99        | 21.43                 |
|            |                         |            |    | 50      | 25        | 20.59                 |
|            |                         |            |    | 100     | 0         | 21.09                 |
|            | 2535                    | 21100      |    | 1       | 0         | 21.47                 |
|            |                         |            |    | 1       | 99        | 21.47                 |
|            |                         |            |    | 50      | 25        | 20.51                 |
|            |                         |            |    | 100     | 0         | 20.64                 |
|            | 2560                    | 21350      |    | 1       | 0         | 21.64                 |
|            |                         |            |    | 1       | 99        | 21.64                 |
|            |                         |            |    | 50      | 25        | 20.34                 |
|            |                         |            |    | 100     | 0         | 20.28                 |

## 2 Occupied Bandwidth

Test result

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of 99% Power (MHz) |        |        |        |        |        |
|------|-------------------------|---------|----------|---------|-----------|------------------------------|--------|--------|--------|--------|--------|
|      |                         |         |          |         |           | QPSK                         |        | 16-QAM |        | 64-QAM |        |
| 7    | 2502.5                  | 20775   | 5        | 25      | 0         | 4.4981                       | Fig.1  | 4.4905 | Fig.2  | 4.4993 | Fig.3  |
|      | 2535                    | 21100   |          | 25      | 0         | 4.4995                       | Fig.4  | 4.4896 | Fig.5  | 4.5009 | Fig.6  |
|      | 2567.5                  | 21425   |          | 25      | 0         | 4.4893                       | Fig.7  | 4.4903 | Fig.8  | 4.4864 | Fig.9  |
|      | 2505                    | 20800   | 10       | 50      | 0         | 8.9851                       | Fig.10 | 8.9645 | Fig.11 | 8.9709 | Fig.12 |
|      | 2535                    | 21100   |          | 50      | 0         | 8.9788                       | Fig.13 | 8.9863 | Fig.14 | 8.9772 | Fig.15 |
|      | 2565                    | 21400   |          | 50      | 0         | 9.0111                       | Fig.16 | 8.9819 | Fig.17 | 8.9927 | Fig.18 |
|      | 2507.5                  | 20825   | 15       | 75      | 0         | 13.458                       | Fig.19 | 13.478 | Fig.20 | 13.431 | Fig.21 |
|      | 2535                    | 21100   |          | 75      | 0         | 13.453                       | Fig.22 | 13.505 | Fig.23 | 13.462 | Fig.24 |
|      | 2562.5                  | 21375   |          | 75      | 0         | 13.471                       | Fig.25 | 13.456 | Fig.26 | 13.477 | Fig.27 |
|      | 2510                    | 20850   | 20       | 100     | 0         | 17.887                       | Fig.28 | 17.960 | Fig.29 | 17.937 | Fig.30 |
|      | 2535                    | 21100   |          | 100     | 0         | 17.943                       | Fig.31 | 17.959 | Fig.32 | 17.946 | Fig.33 |
|      | 2560                    | 21350   |          | 100     | 0         | 17.941                       | Fig.34 | 17.906 | Fig.35 | 17.904 | Fig.36 |

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of -26dB transmitter power (MHz) |        |        |        |        |        |
|------|-------------------------|---------|----------|---------|-----------|--------------------------------------------|--------|--------|--------|--------|--------|
|      |                         |         |          |         |           | QPSK                                       |        | 16-QAM |        | 64-QAM |        |
| 7    | 2502.5                  | 20775   | 5        | 25      | 0         | 5.060                                      | Fig.1  | 5.065  | Fig.2  | 5.040  | Fig.3  |
|      | 2535                    | 21100   |          | 25      | 0         | 5.080                                      | Fig.4  | 5.069  | Fig.5  | 5.038  | Fig.6  |
|      | 2567.5                  | 21425   |          | 25      | 0         | 5.036                                      | Fig.7  | 5.003  | Fig.8  | 5.016  | Fig.9  |
|      | 2505                    | 20800   | 10       | 50      | 0         | 10.28                                      | Fig.10 | 10.20  | Fig.11 | 9.985  | Fig.12 |
|      | 2535                    | 21100   |          | 50      | 0         | 10.37                                      | Fig.13 | 10.10  | Fig.14 | 10.27  | Fig.15 |
|      | 2565                    | 21400   |          | 50      | 0         | 10.28                                      | Fig.16 | 10.07  | Fig.17 | 10.27  | Fig.18 |
|      | 2507.5                  | 20825   | 15       | 75      | 0         | 15.26                                      | Fig.19 | 15.36  | Fig.20 | 15.45  | Fig.21 |
|      | 2535                    | 21100   |          | 75      | 0         | 15.48                                      | Fig.22 | 15.36  | Fig.23 | 15.43  | Fig.24 |
|      | 2562.5                  | 21375   |          | 75      | 0         | 15.22                                      | Fig.25 | 15.12  | Fig.26 | 15.33  | Fig.27 |
|      | 2510                    | 20850   | 20       | 100     | 0         | 19.21                                      | Fig.28 | 19.38  | Fig.29 | 19.56  | Fig.30 |
|      | 2535                    | 21100   |          | 100     | 0         | 19.52                                      | Fig.31 | 19.31  | Fig.32 | 19.28  | Fig.33 |
|      | 2560                    | 21350   |          | 100     | 0         | 19.44                                      | Fig.34 | 19.48  | Fig.35 | 19.38  | Fig.36 |

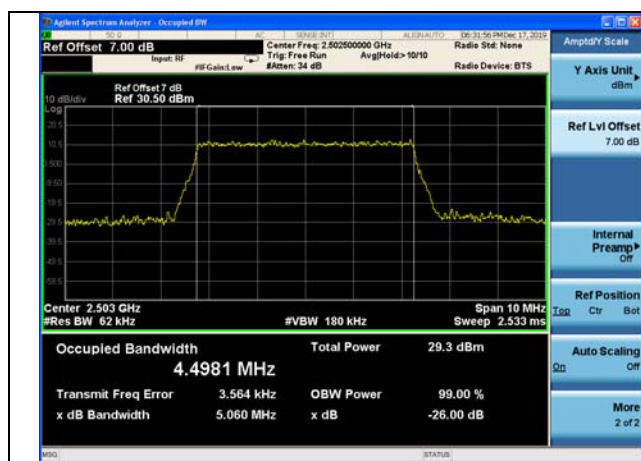


Fig.1

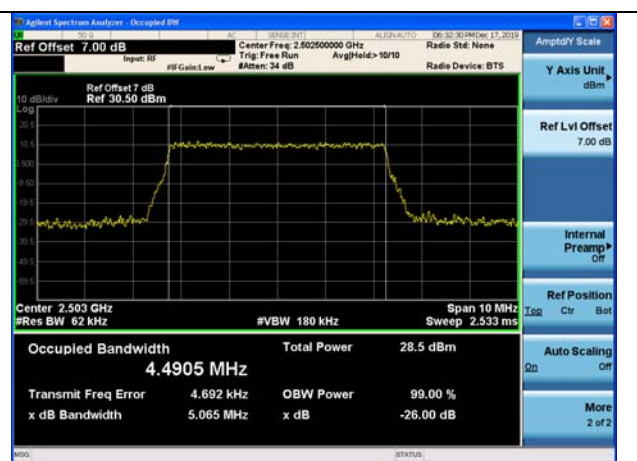


Fig.2

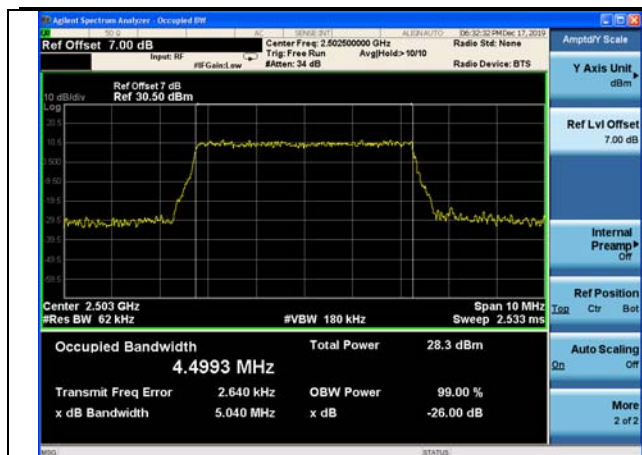


Fig.3

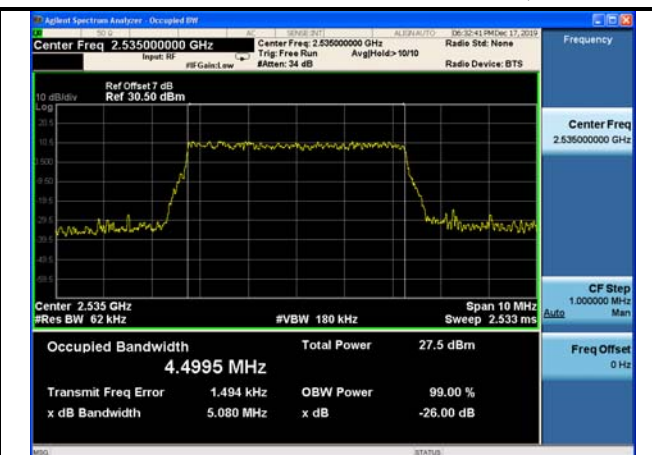


Fig.4

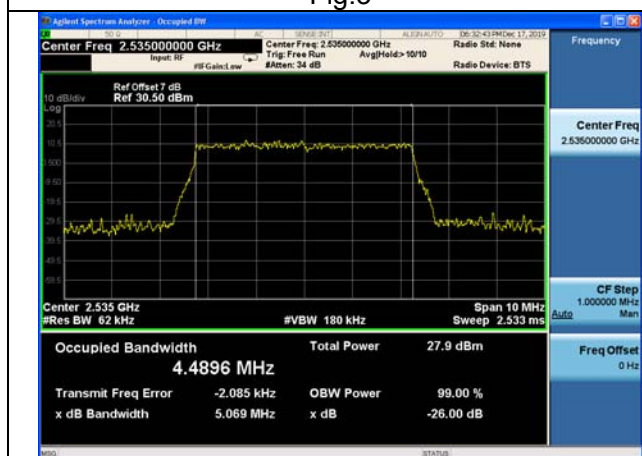


Fig.5

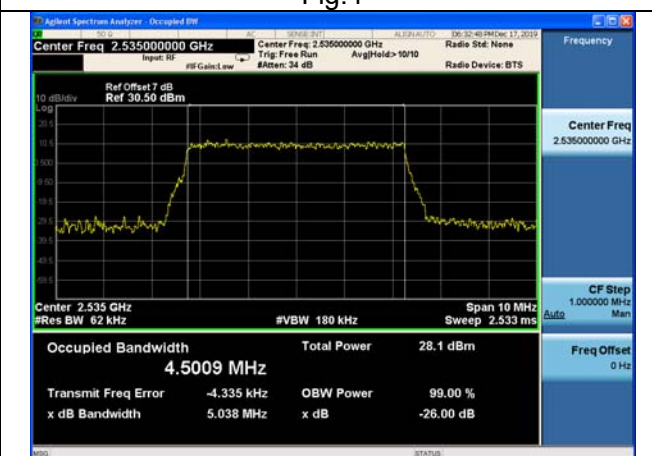


Fig.6

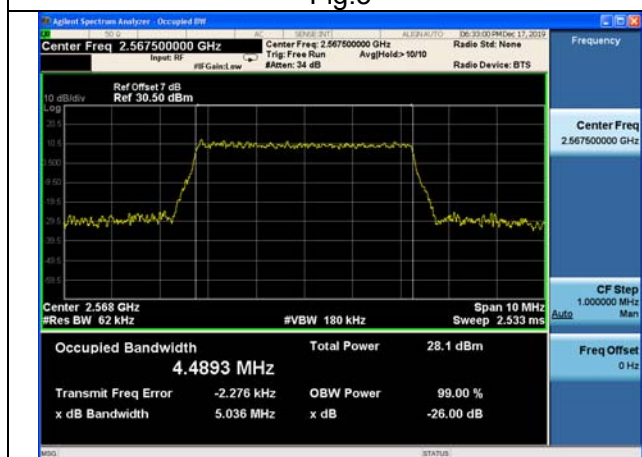


Fig.7

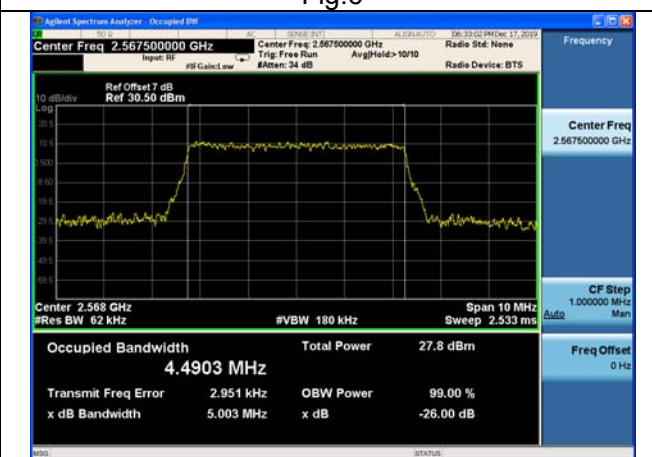


Fig.8

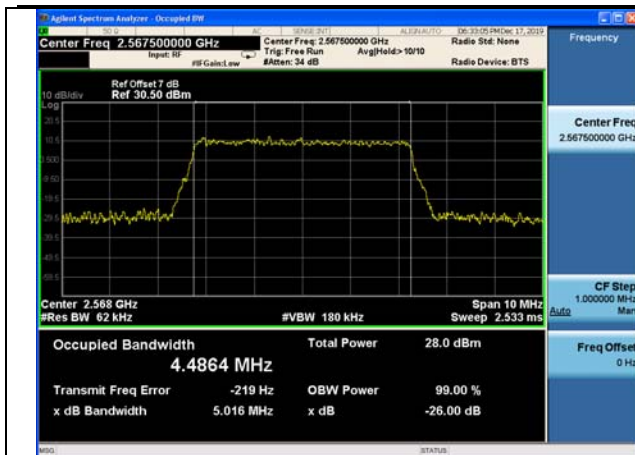


Fig.9

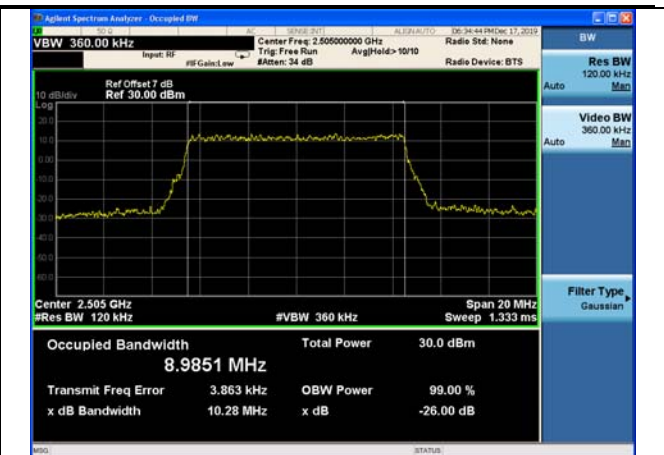


Fig.10

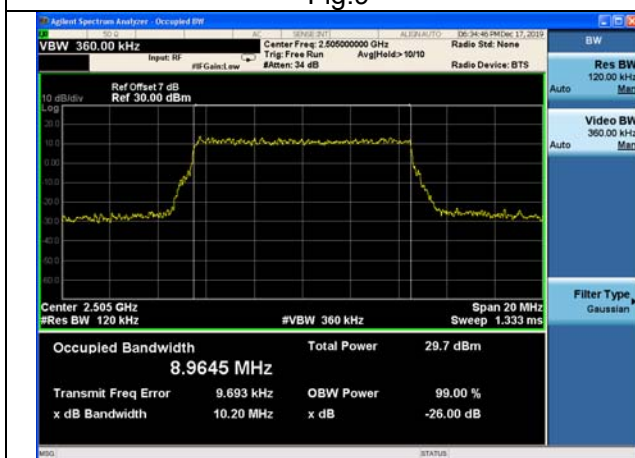


Fig.11

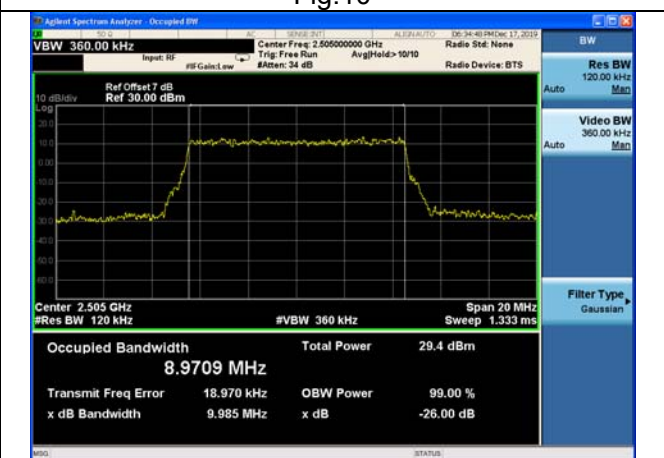


Fig.12

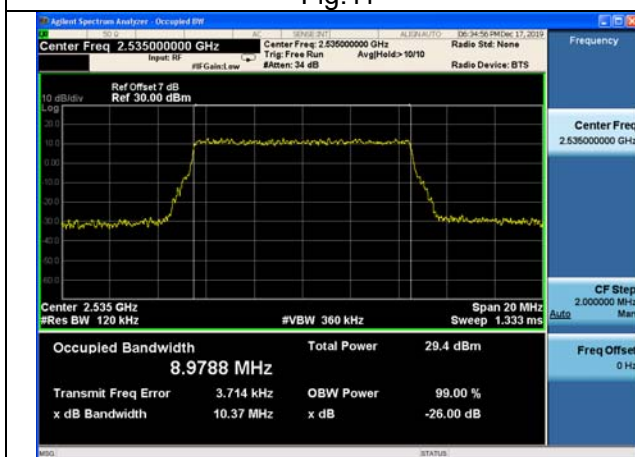


Fig.13

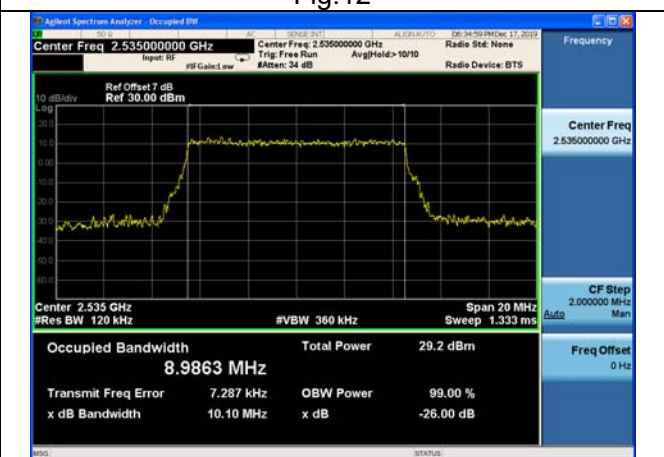


Fig.14

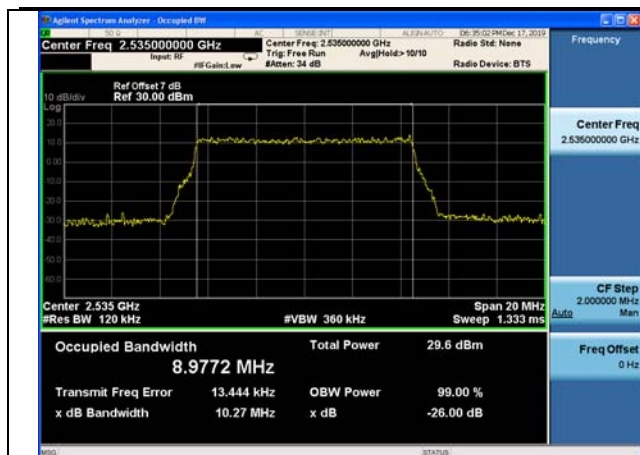


Fig.15

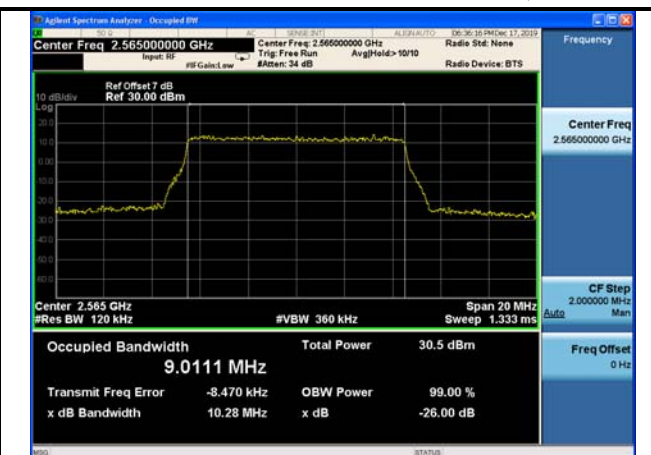


Fig.16

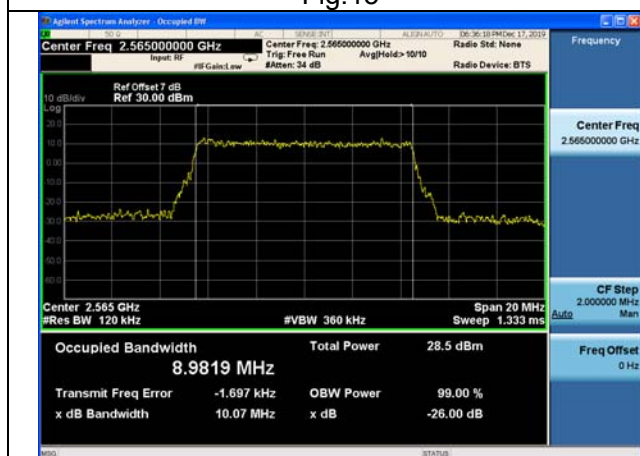


Fig.17

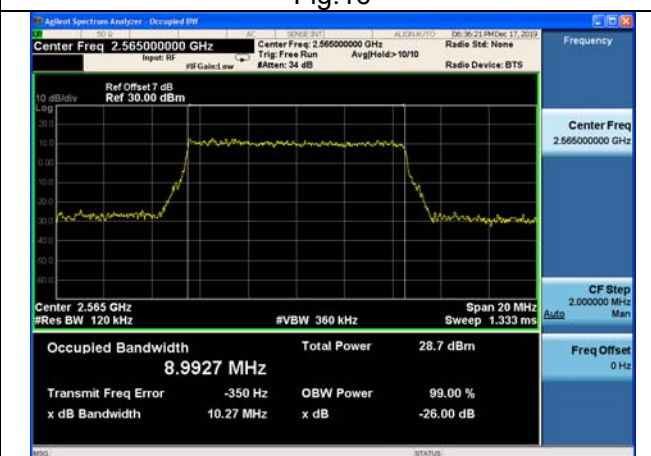


Fig.18

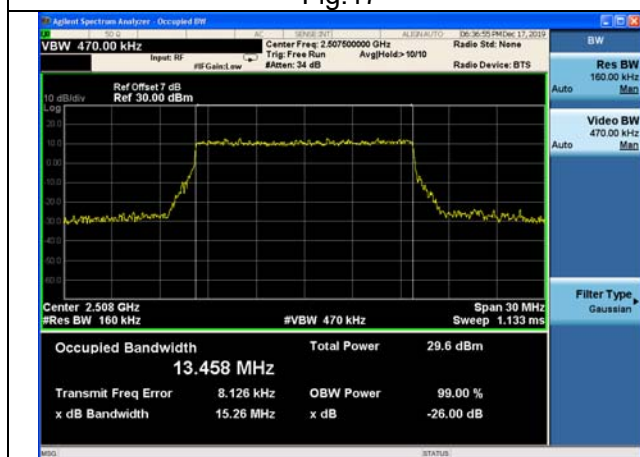


Fig.19

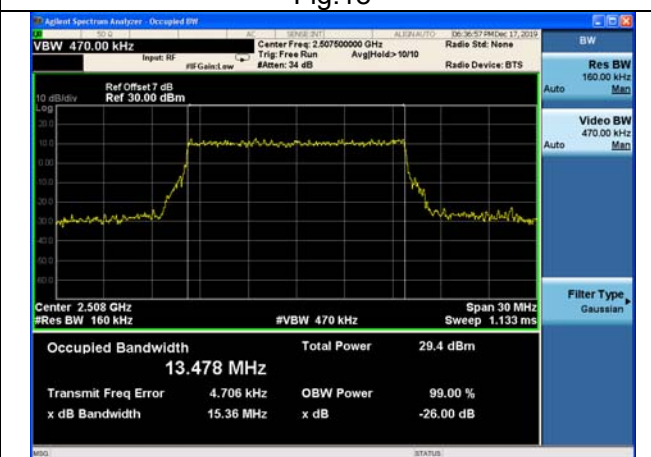


Fig.20

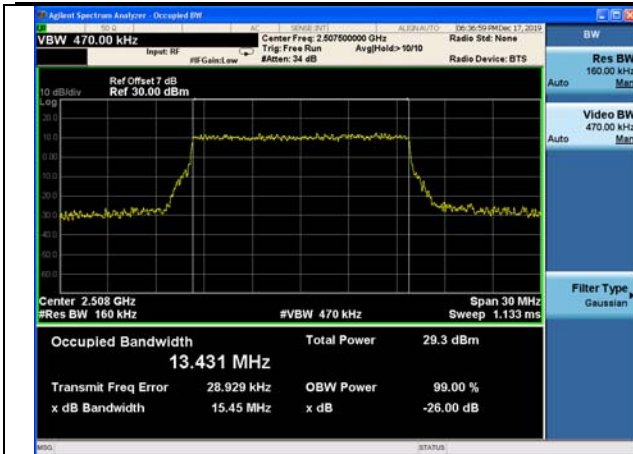


Fig.21

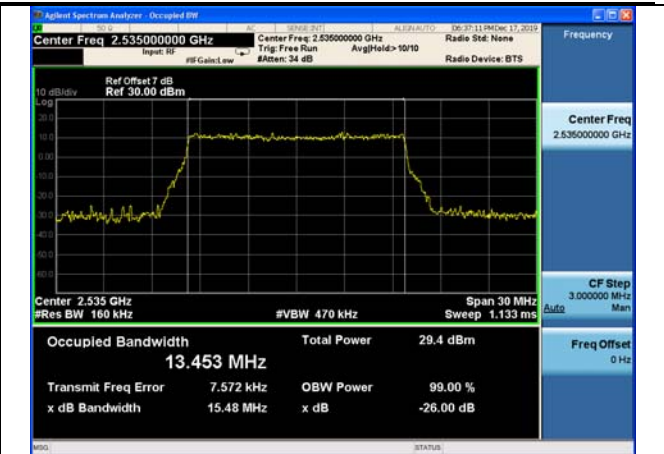


Fig.22

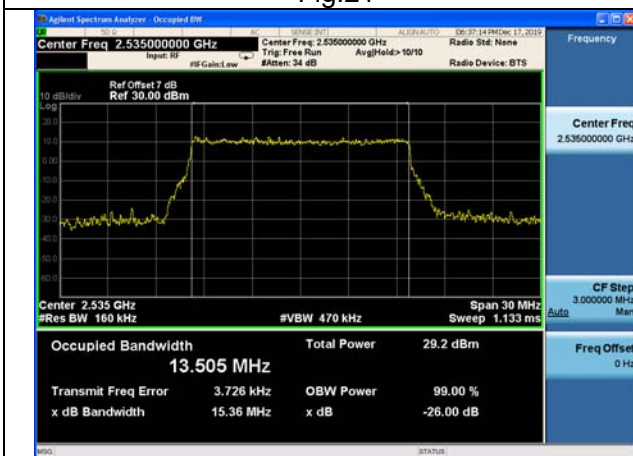


Fig.23

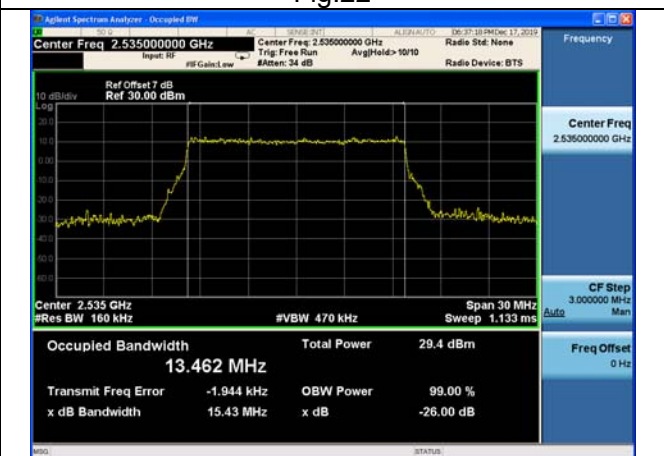


Fig.24

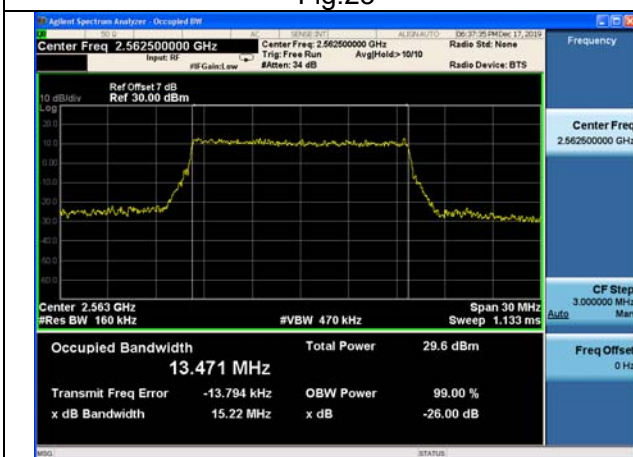


Fig.25

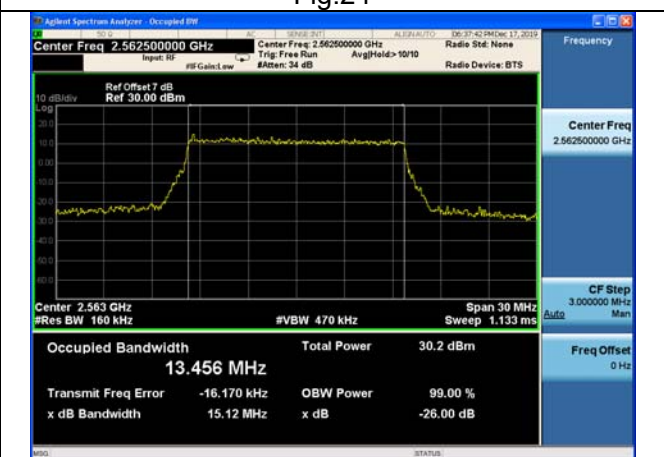


Fig.26

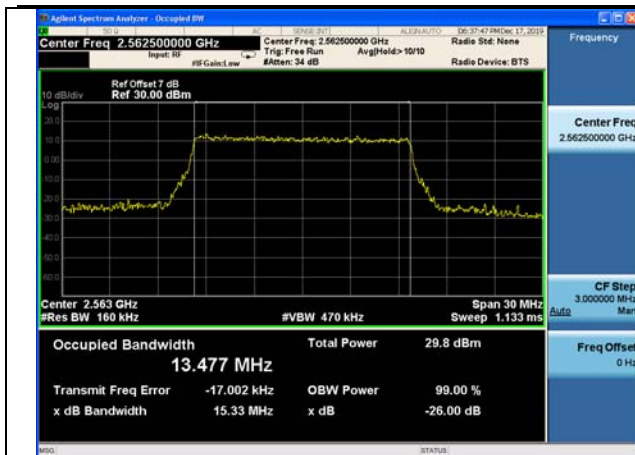


Fig.27

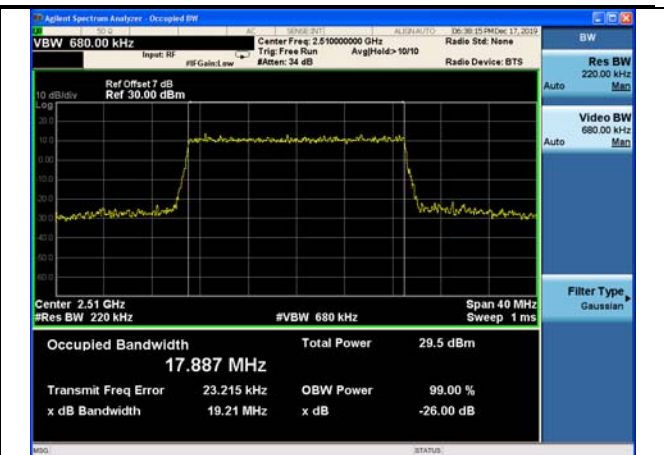


Fig.28

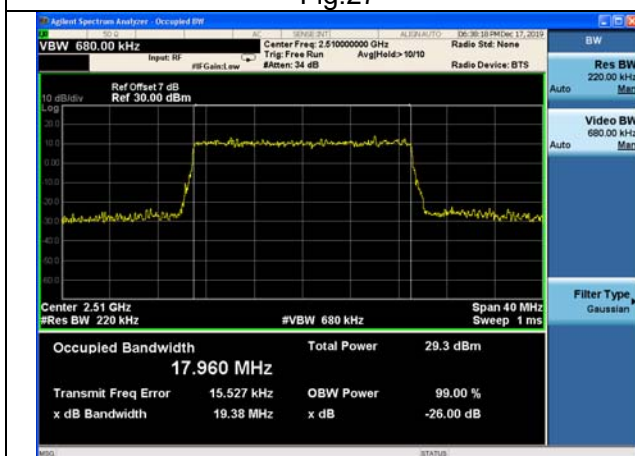


Fig.29

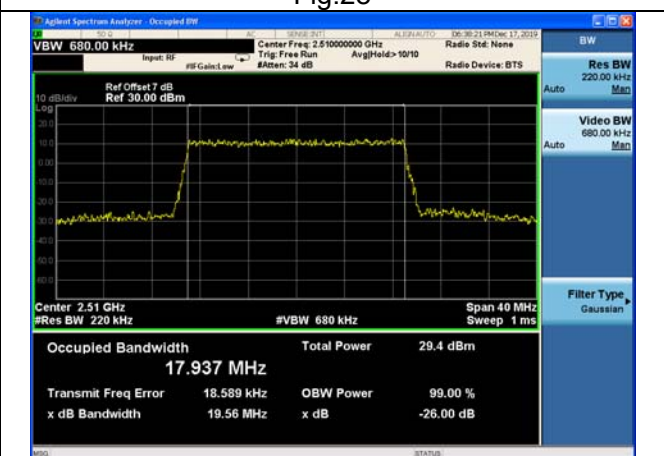


Fig.30

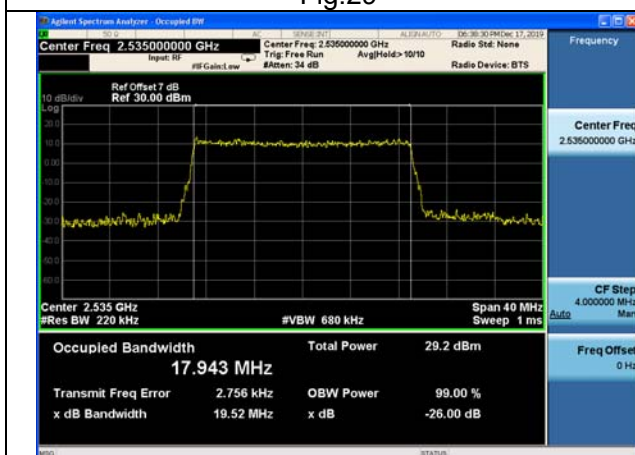


Fig.31

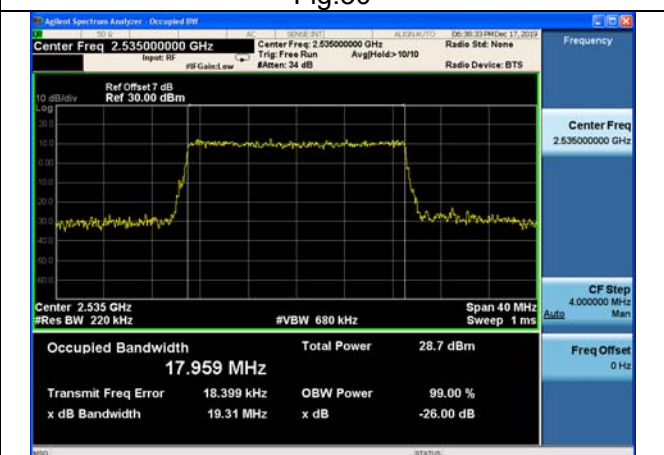


Fig.32

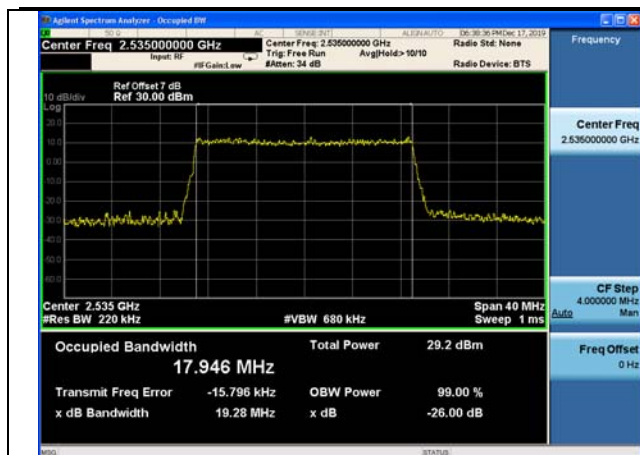


Fig.33

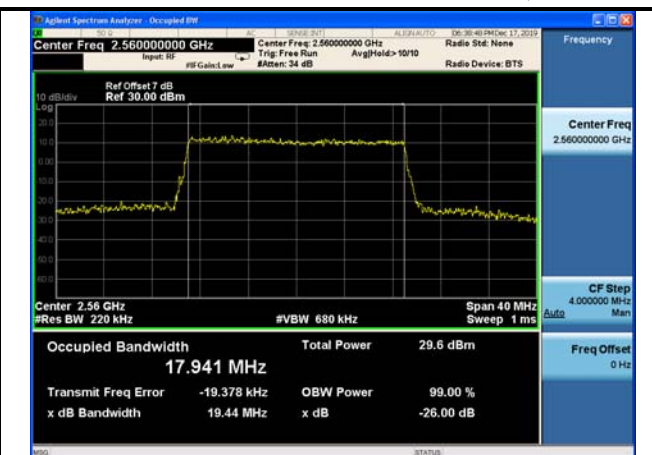


Fig.34

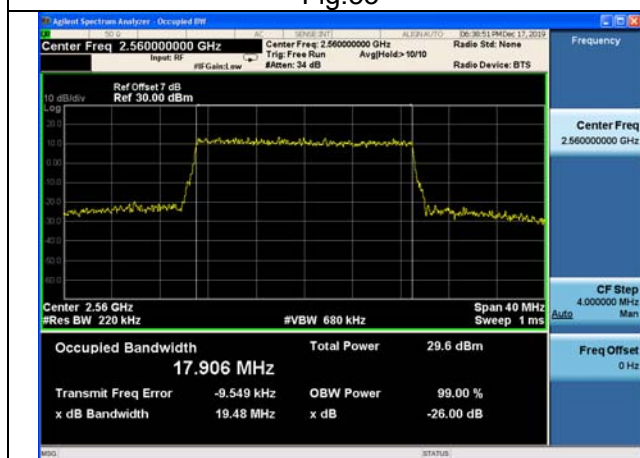


Fig.35

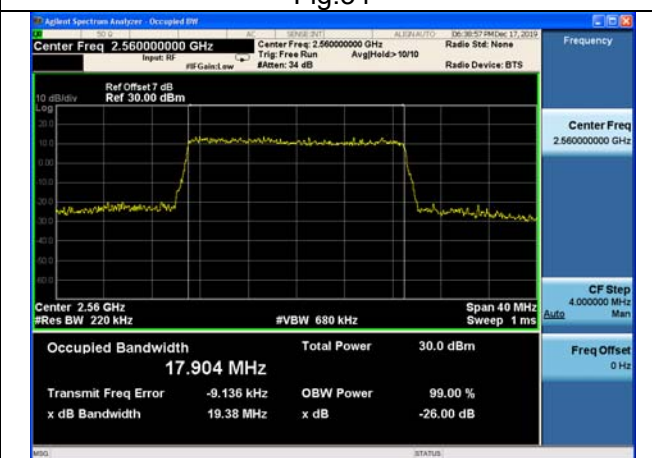


Fig.36

### 3 Peak-Average Ratio

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | QPSK   | 16-QAM | 64-QAM |
|------|-------------------------|---------|----------|---------|-----------|--------|--------|--------|
| 7    | 2535                    | 21100   | 5        | 1       | 0         | Fig.1  | Fig.2  | Fig.3  |
|      |                         |         | 10       | 1       | 0         | Fig.4  | Fig.5  | Fig.6  |
|      |                         |         | 15       | 1       | 0         | Fig.7  | Fig.8  | Fig.9  |
|      |                         |         | 20       | 1       | 0         | Fig.10 | Fig.11 | Fig.12 |

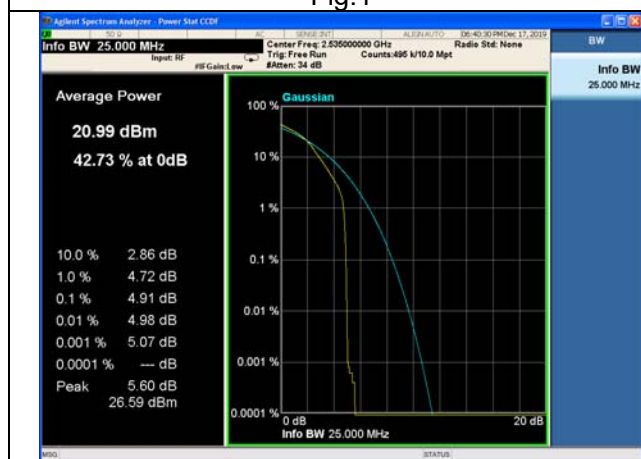




Fig.5



Fig.6



Fig.7

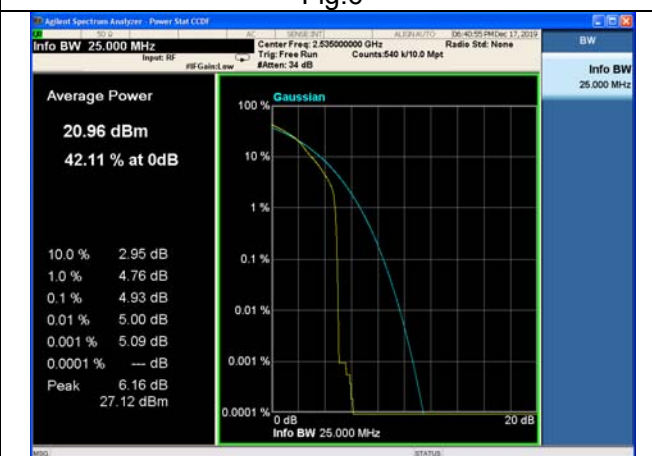


Fig.8



Fig.9



Fig.10

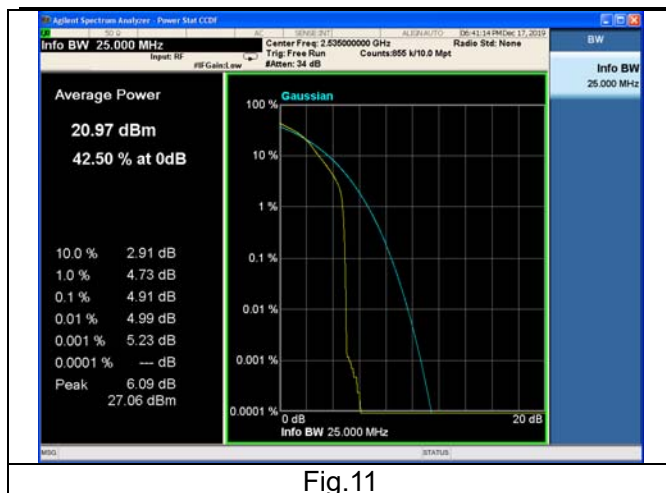


Fig.11



Fig.12

#### 4 Spurious Emissions at antenna terminal

| Band | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Conducted Spurious Plot |
|------|-------------------------|---------|----|---------|-----------|-------------------------|
|      |                         |         |    |         |           | QPSK                    |
| 7    | 2510                    | 20850   | 20 | 1       | 0         | Fig.1-2                 |
|      | 2535                    | 21100   | 20 | 1       | 0         | Fig.3-4                 |
|      | 2560                    | 21350   | 20 | 1       | 0         | Fig.5-6                 |

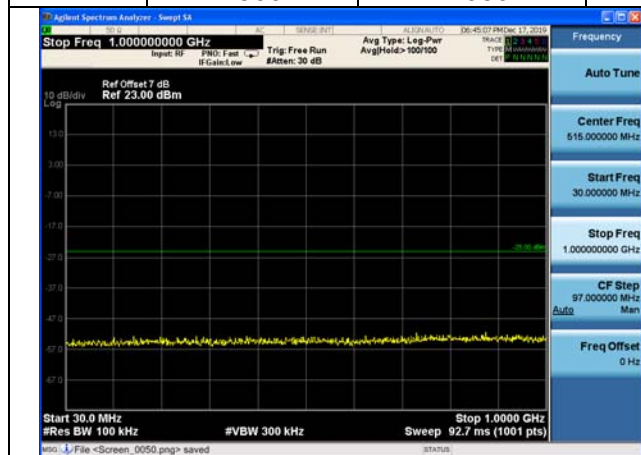


Fig.1



Fig.2

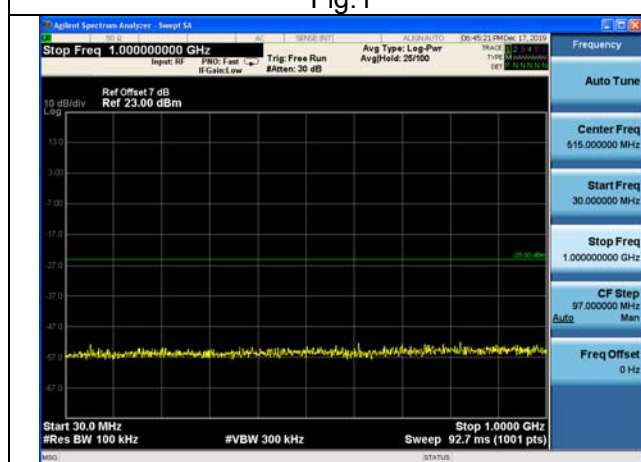


Fig3



Fig4

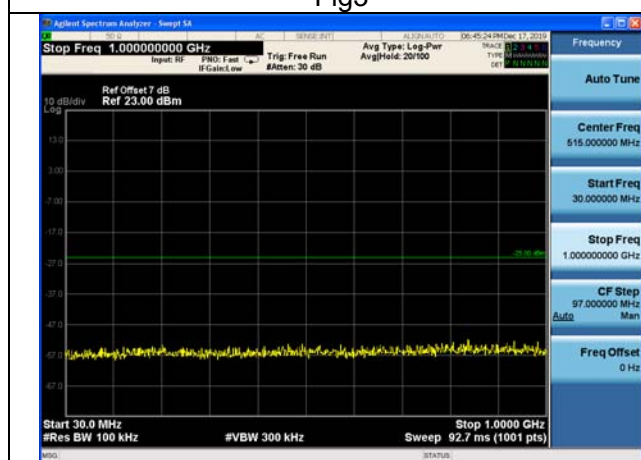


Fig5



Fig6

## 5 Band Edges Compliance

Test result

| Band | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Band Edges Plot |
|------|-------------------------|---------|----|---------|-----------|-----------------|
|      |                         |         |    |         |           | QPSK            |
| 7    | 2502.5                  | 20775   | 5  | 1       | 0         | Fig.1           |
|      |                         |         |    | 25      | 0         | Fig.2           |
|      | 2567.5                  | 21425   |    | 1       | 24        | Fig.3           |
|      |                         |         |    | 25      | 0         | Fig.4           |
|      | 2505                    | 20800   | 10 | 1       | 0         | Fig.5           |
|      |                         |         |    | 50      | 0         | Fig.6           |
|      | 2565                    | 21400   |    | 1       | 49        | Fig.7           |
|      |                         |         |    | 50      | 0         | Fig.8           |
|      | 2507.5                  | 20825   | 15 | 1       | 0         | Fig.9           |
|      |                         |         |    | 75      | 0         | Fig.10          |
|      | 2562.5                  | 21375   |    | 1       | 74        | Fig.11          |
|      |                         |         |    | 75      | 0         | Fig.12          |
|      | 2510                    | 20850   | 20 | 1       | 0         | Fig.13          |
|      |                         |         |    | 100     | 0         | Fig.14          |
|      | 2560                    | 21350   |    | 1       | 99        | Fig.15          |
|      |                         |         |    | 100     | 0         | Fig.16          |

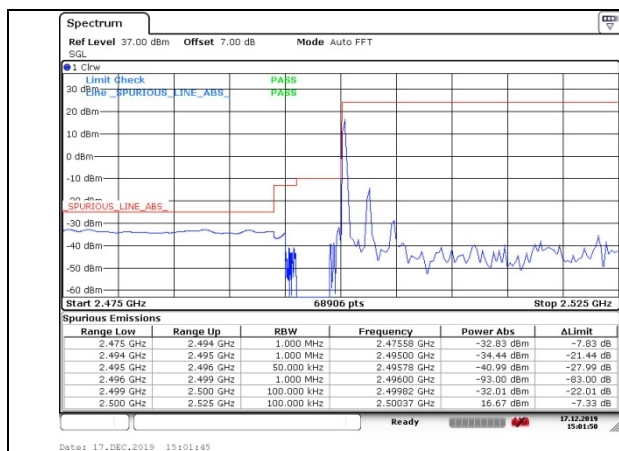


Fig.1

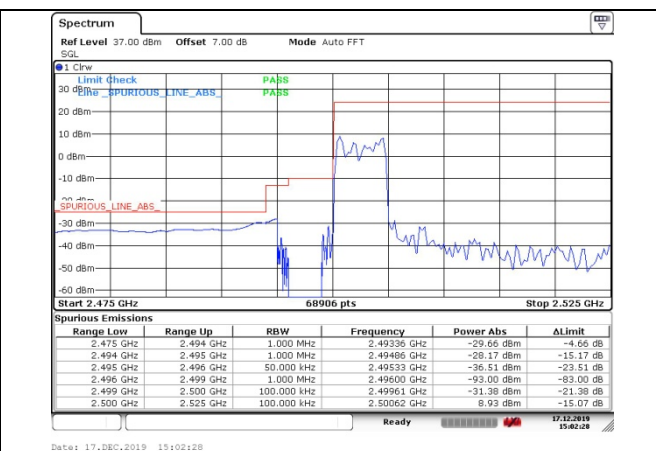


Fig.2

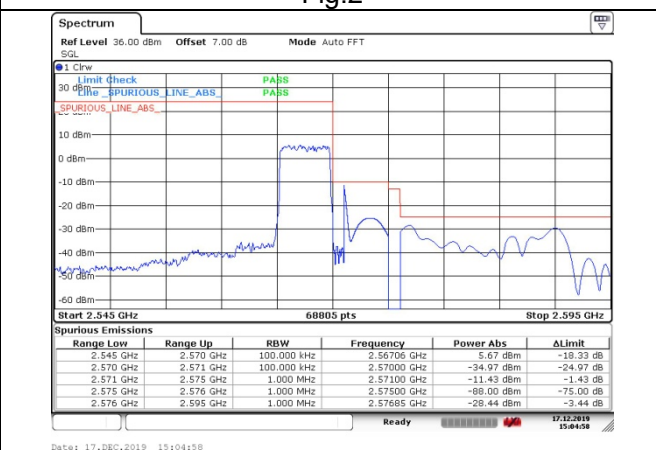
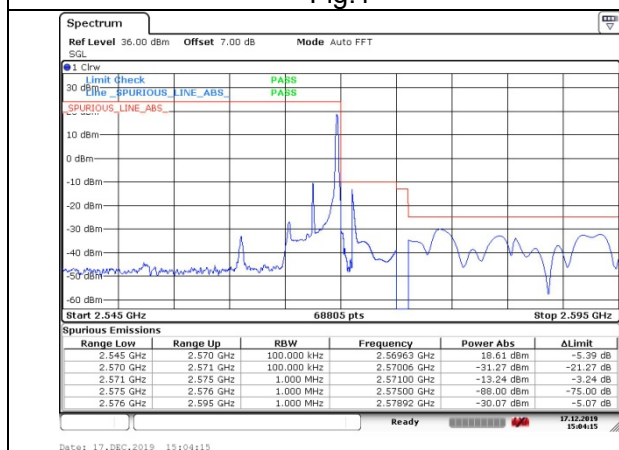
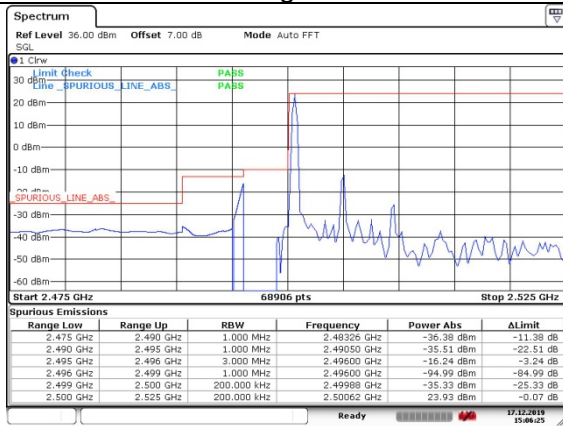
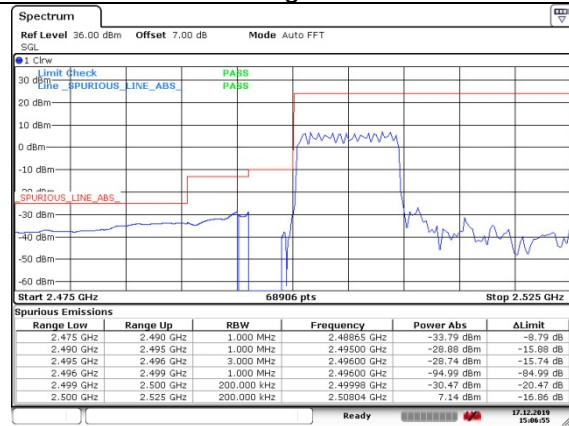


Fig.3



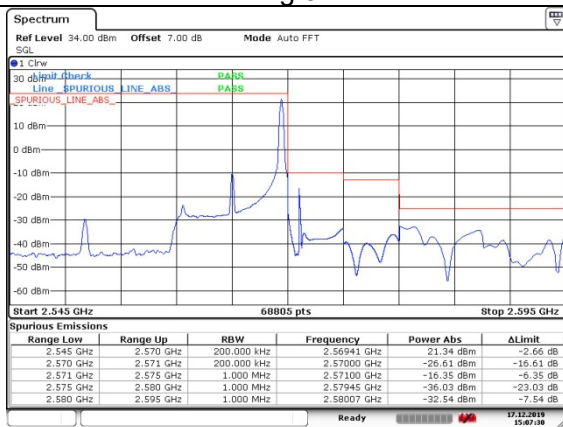
Date: 17 DEC.2019 15:06:25

Fig.4



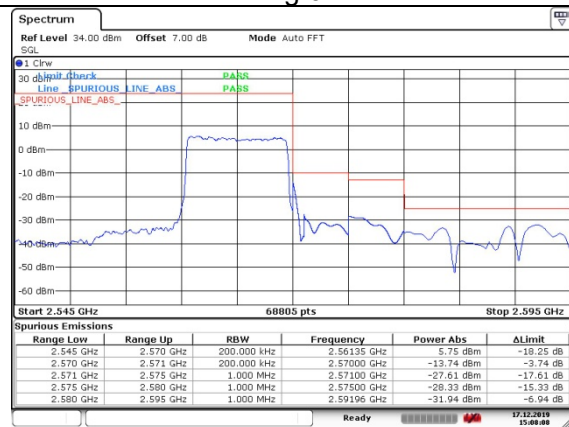
Date: 17 DEC.2019 15:06:55

Fig.5



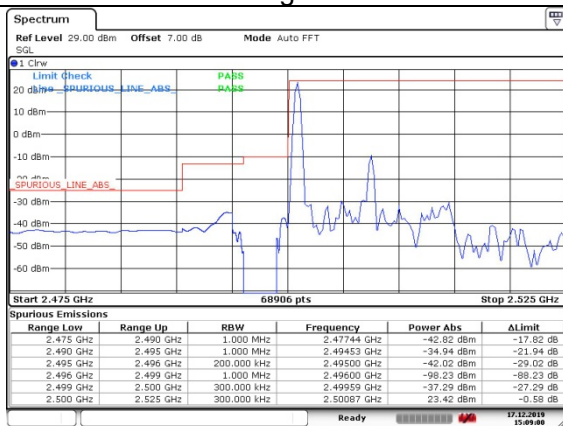
Date: 17 DEC.2019 15:07:29

Fig.6



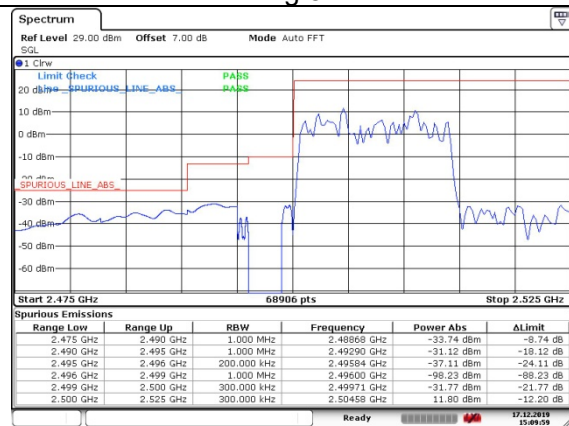
Date: 17 DEC.2019 15:08:07

Fig.7



Date: 17 DEC.2019 15:09:59

Fig.8



Date: 17 DEC.2019 15:09:58

Fig.9

Fig.10

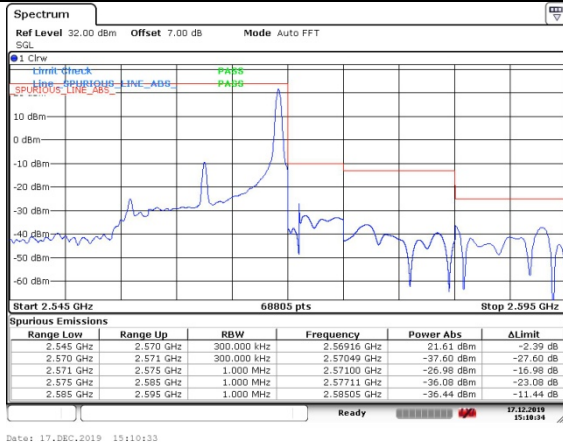


Fig.11

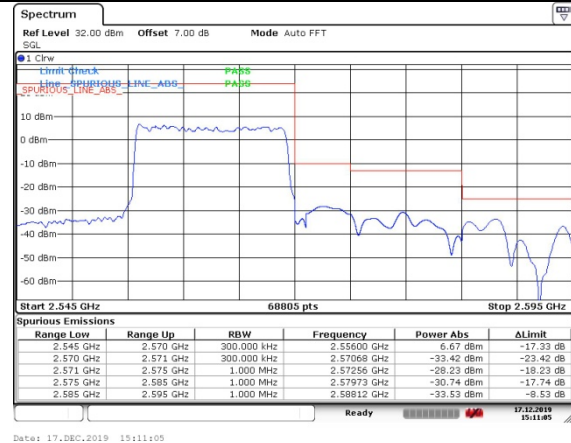


Fig.12

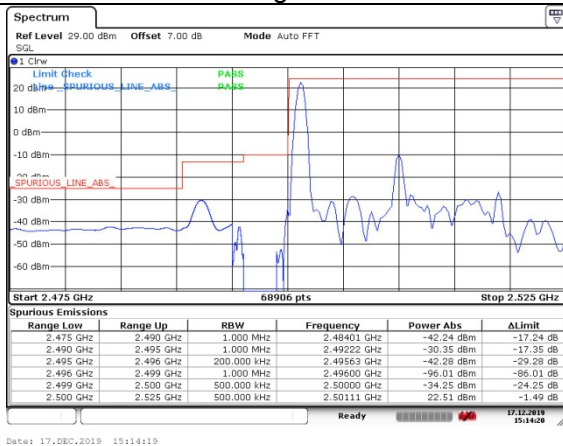


Fig.13

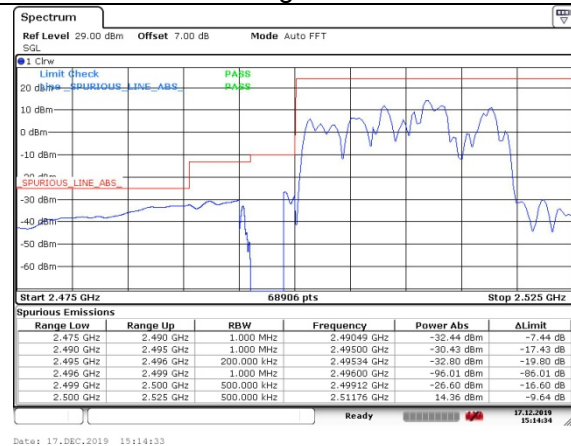


Fig.14

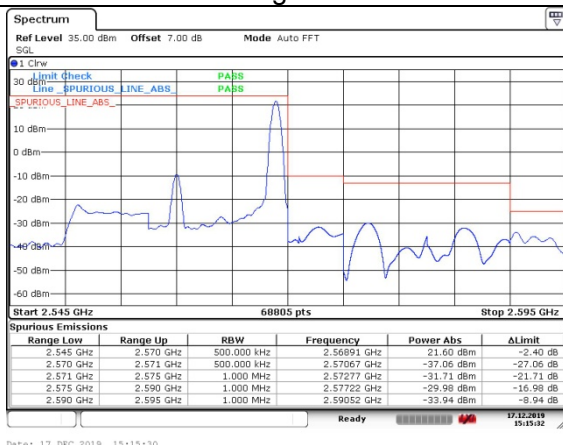


Fig.15

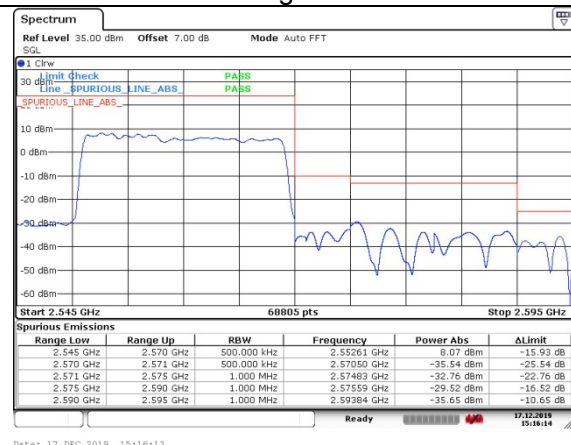


Fig.16

## 6 Frequency Stability

Test result:

| Temperature(°C) | Voltage | Test Result (ppm) Band7 Low Channel |        |        |        |
|-----------------|---------|-------------------------------------|--------|--------|--------|
|                 |         | 5M                                  | 10M    | 15M    | 20M    |
| -10             | NV      | 0.090                               | -0.024 | 0.071  | 0.057  |
| 0               | NV      | -0.095                              | 0.049  | 0.000  | -0.006 |
| +10             | NV      | 0.094                               | -0.019 | 0.060  | -0.026 |
| +20             | NV      | 0.000                               | 0.000  | 0.000  | 0.000  |
| +30             | NV      | 0.010                               | 0.065  | 0.096  | -0.021 |
| +40             | NV      | -0.090                              | -0.059 | 0.079  | -0.067 |
| +50             | NV      | -0.081                              | 0.069  | -0.062 | -0.072 |
| +55             | NV      | -0.092                              | 0.058  | 0.040  | -0.019 |
| +20             | LV      | -0.039                              | 0.013  | 0.028  | -0.066 |
| +20             | HV      | 0.083                               | 0.033  | 0.014  | -0.009 |

| Temperature(°C) | Voltage | Test Result (ppm) Band7 High Channel |        |        |        |
|-----------------|---------|--------------------------------------|--------|--------|--------|
|                 |         | 5M                                   | 10M    | 15M    | 20M    |
| -10             | NV      | -0.060                               | -0.097 | 0.077  | 0.037  |
| 0               | NV      | 0.054                                | -0.034 | 0.055  | 0.053  |
| +10             | NV      | 0.060                                | -0.063 | 0.082  | 0.081  |
| +20             | NV      | 0.000                                | 0.000  | 0.000  | 0.000  |
| +30             | NV      | 0.006                                | 0.053  | -0.056 | -0.043 |
| +40             | NV      | -0.063                               | 0.088  | -0.029 | -0.059 |
| +50             | NV      | -0.018                               | 0.008  | -0.032 | 0.008  |
| +55             | NV      | 0.065                                | 0.086  | -0.004 | 0.045  |
| +20             | LV      | 0.032                                | -0.069 | -0.078 | 0.055  |
| +20             | HV      | 0.037                                | 0.018  | -0.023 | -0.017 |

## APPENDIX B – TEST DATA OF RADIATED EMISSION

LTE band 2

Test result:

| band  | Modulation | BW<br>(MHz) | Channel | RB/<br>RB offset | EIRP/ERP<br>(dBm) | EIRP/ERP<br>(W) |
|-------|------------|-------------|---------|------------------|-------------------|-----------------|
| Band2 | QPSK       | 1.4         | 18607   | 1#0              | 22.32             | 0.171           |
| Band2 | QPSK       | 1.4         | 18900   | 1#0              | 22.96             | 0.198           |
| Band2 | QPSK       | 1.4         | 19193   | 1#0              | 22.41             | 0.174           |
| Band2 | 16QAM      | 1.4         | 18607   | 1#0              | 21.38             | 0.138           |
| Band2 | 16QAM      | 1.4         | 18900   | 1#0              | 21.43             | 0.139           |
| Band2 | 16QAM      | 1.4         | 19193   | 1#0              | 21.28             | 0.134           |
| Band2 | 64QAM      | 1.4         | 18607   | 1#0              | 21.50             | 0.141           |
| Band2 | 64QAM      | 1.4         | 18900   | 1#0              | 21.69             | 0.147           |
| Band2 | 64QAM      | 1.4         | 19193   | 1#0              | 21.13             | 0.130           |
| Band2 | QPSK       | 3           | 18615   | 1#0              | 22.40             | 0.174           |
| Band2 | QPSK       | 3           | 18900   | 1#0              | 22.83             | 0.192           |
| Band2 | QPSK       | 3           | 19185   | 1#0              | 22.66             | 0.184           |
| Band2 | 16QAM      | 3           | 18615   | 1#0              | 22.01             | 0.159           |
| Band2 | 16QAM      | 3           | 18900   | 1#0              | 21.31             | 0.135           |
| Band2 | 16QAM      | 3           | 19185   | 1#0              | 21.74             | 0.149           |
| Band2 | 64QAM      | 3           | 18615   | 1#0              | 21.58             | 0.144           |
| Band2 | 64QAM      | 3           | 18900   | 1#0              | 21.64             | 0.146           |
| Band2 | 64QAM      | 3           | 19185   | 1#0              | 20.74             | 0.119           |
| Band2 | QPSK       | 5           | 18625   | 1#0              | 22.48             | 0.177           |
| Band2 | QPSK       | 5           | 18900   | 1#0              | 22.20             | 0.166           |
| Band2 | QPSK       | 5           | 19175   | 1#0              | 22.25             | 0.168           |
| Band2 | 16QAM      | 5           | 18625   | 1#0              | 21.98             | 0.158           |
| Band2 | 16QAM      | 5           | 18900   | 1#0              | 22.10             | 0.162           |
| Band2 | 16QAM      | 5           | 19175   | 1#0              | 21.33             | 0.136           |
| Band2 | 64QAM      | 5           | 18625   | 1#0              | 21.12             | 0.129           |
| Band2 | 64QAM      | 5           | 18900   | 1#0              | 22.11             | 0.162           |
| Band2 | 64QAM      | 5           | 19175   | 1#0              | 21.58             | 0.144           |
| Band2 | QPSK       | 10          | 18650   | 1#0              | 22.18             | 0.165           |
| Band2 | QPSK       | 10          | 18900   | 1#0              | 22.03             | 0.160           |
| Band2 | QPSK       | 10          | 19150   | 1#0              | 22.06             | 0.161           |
| Band2 | 16QAM      | 10          | 18650   | 1#0              | 21.82             | 0.152           |
| Band2 | 16QAM      | 10          | 18900   | 1#0              | 21.33             | 0.136           |
| Band2 | 16QAM      | 10          | 19150   | 1#0              | 21.04             | 0.127           |
| Band2 | 64QAM      | 10          | 18650   | 1#0              | 21.93             | 0.156           |
| Band2 | 64QAM      | 10          | 18900   | 1#0              | 21.67             | 0.147           |
| Band2 | 64QAM      | 10          | 19150   | 1#0              | 21.55             | 0.143           |
| Band2 | QPSK       | 15          | 18675   | 1#0              | 22.29             | 0.169           |
| Band2 | QPSK       | 15          | 18900   | 1#0              | 22.71             | 0.187           |
| Band2 | QPSK       | 15          | 19125   | 1#0              | 22.37             | 0.173           |
| Band2 | 16QAM      | 15          | 18675   | 1#0              | 21.39             | 0.138           |
| Band2 | 16QAM      | 15          | 18900   | 1#0              | 21.47             | 0.140           |

|       |       |    |       |     |       |       |
|-------|-------|----|-------|-----|-------|-------|
| Band2 | 16QAM | 15 | 19125 | 1#0 | 20.94 | 0.124 |
| Band2 | 64QAM | 15 | 18675 | 1#0 | 21.78 | 0.151 |
| Band2 | 64QAM | 15 | 18900 | 1#0 | 21.27 | 0.134 |
| Band2 | 64QAM | 15 | 19125 | 1#0 | 20.92 | 0.124 |
| Band2 | QPSK  | 20 | 18700 | 1#0 | 22.56 | 0.180 |
| Band2 | QPSK  | 20 | 18900 | 1#0 | 22.28 | 0.169 |
| Band2 | QPSK  | 20 | 19100 | 1#0 | 22.50 | 0.178 |
| Band2 | 16QAM | 20 | 18700 | 1#0 | 21.51 | 0.142 |
| Band2 | 16QAM | 20 | 18900 | 1#0 | 21.29 | 0.135 |
| Band2 | 16QAM | 20 | 19100 | 1#0 | 21.59 | 0.144 |
| Band2 | 64QAM | 20 | 18700 | 1#0 | 21.23 | 0.133 |
| Band2 | 64QAM | 20 | 18900 | 1#0 | 21.92 | 0.156 |
| Band2 | 64QAM | 20 | 19100 | 1#0 | 21.07 | 0.128 |

Test result:

Channel 18700

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 2460.14         | -49.46      | -13           | Vertical     |
| 2780.10         | -47.70      | -13           | Vertical     |
| 3726.02         | -40.97      | -13           | Vertical     |
| 6675.28         | -39.35      | -13           | Vertical     |
| 9962.30         | -37.04      | -13           | Vertical     |
| 17820.43        | -33.65      | -13           | Vertical     |

Channel 18900

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 2461.23         | -49.27      | -13           | Vertical     |
| 2781.34         | -47.75      | -13           | Vertical     |
| 3726.03         | -40.50      | -13           | Vertical     |
| 6676.74         | -39.23      | -13           | Vertical     |
| 9960.23         | -37.68      | -13           | Vertical     |
| 17820.11        | -34.29      | -13           | Vertical     |

Channel 19100

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 2458.92         | -49.15      | -13           | Vertical     |
| 2780.77         | -47.19      | -13           | Vertical     |
| 3728.24         | -40.42      | -13           | Vertical     |
| 6677.97         | -39.30      | -13           | Vertical     |
| 9960.93         | -37.31      | -13           | Vertical     |
| 17819.70        | -34.27      | -13           | Vertical     |

# LTE band 5

## Test result:

| band  | Modulation | BW<br>(MHz) | Channel | RB/<br>RB offset | EIRP/ERP<br>(dBm) | EIRP/ERP<br>(W) |
|-------|------------|-------------|---------|------------------|-------------------|-----------------|
| Band5 | QPSK       | 1.4         | 20407   | 1#0              | 23.54             | 0.226           |
| Band5 | QPSK       | 1.4         | 20525   | 1#0              | 22.26             | 0.168           |
| Band5 | QPSK       | 1.4         | 20643   | 1#0              | 23.34             | 0.216           |
| Band5 | 16QAM      | 1.4         | 20407   | 1#0              | 22.94             | 0.197           |
| Band5 | 16QAM      | 1.4         | 20525   | 1#0              | 21.57             | 0.144           |
| Band5 | 16QAM      | 1.4         | 20643   | 1#0              | 22.62             | 0.183           |
| Band5 | 64QAM      | 1.4         | 20407   | 1#0              | 22.26             | 0.168           |
| Band5 | 64QAM      | 1.4         | 20525   | 1#0              | 21.46             | 0.140           |
| Band5 | 64QAM      | 1.4         | 20643   | 1#0              | 22.87             | 0.194           |
| Band5 | QPSK       | 3           | 20415   | 1#0              | 23.59             | 0.229           |
| Band5 | QPSK       | 3           | 20525   | 1#0              | 22.46             | 0.176           |
| Band5 | QPSK       | 3           | 20635   | 1#0              | 23.29             | 0.213           |
| Band5 | 16QAM      | 3           | 20415   | 1#0              | 22.37             | 0.172           |
| Band5 | 16QAM      | 3           | 20525   | 1#0              | 21.18             | 0.131           |
| Band5 | 16QAM      | 3           | 20635   | 1#0              | 22.25             | 0.168           |
| Band5 | 64QAM      | 3           | 20415   | 1#0              | 21.97             | 0.158           |
| Band5 | 64QAM      | 3           | 20525   | 1#0              | 20.94             | 0.124           |
| Band5 | 64QAM      | 3           | 20635   | 1#0              | 22.11             | 0.163           |
| Band5 | QPSK       | 5           | 20425   | 1#0              | 23.62             | 0.230           |
| Band5 | QPSK       | 5           | 20525   | 1#0              | 22.20             | 0.166           |
| Band5 | QPSK       | 5           | 20625   | 1#0              | 23.83             | 0.241           |
| Band5 | 16QAM      | 5           | 20425   | 1#0              | 23.02             | 0.200           |
| Band5 | 16QAM      | 5           | 20525   | 1#0              | 21.18             | 0.131           |
| Band5 | 16QAM      | 5           | 20625   | 1#0              | 22.69             | 0.186           |
| Band5 | 64QAM      | 5           | 20425   | 1#0              | 22.28             | 0.169           |
| Band5 | 64QAM      | 5           | 20525   | 1#0              | 20.85             | 0.122           |
| Band5 | 64QAM      | 5           | 20625   | 1#0              | 22.79             | 0.190           |
| Band5 | QPSK       | 10          | 20450   | 1#0              | 23.85             | 0.243           |
| Band5 | QPSK       | 10          | 20525   | 1#0              | 22.69             | 0.186           |
| Band5 | QPSK       | 10          | 20600   | 1#0              | 23.54             | 0.226           |
| Band5 | 16QAM      | 10          | 20450   | 1#0              | 22.39             | 0.173           |
| Band5 | 16QAM      | 10          | 20525   | 1#0              | 21.78             | 0.151           |
| Band5 | 16QAM      | 10          | 20600   | 1#0              | 22.60             | 0.182           |
| Band5 | 64QAM      | 10          | 20450   | 1#0              | 22.35             | 0.172           |
| Band5 | 64QAM      | 10          | 20525   | 1#0              | 21.05             | 0.127           |
| Band5 | 64QAM      | 10          | 20600   | 1#0              | 22.82             | 0.191           |

Test result:

Channel 20450

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 1647.83         | -53.01      | -13           | Vertical     |
| 1666.06         | -51.47      | -13           | Vertical     |
| 2533.53         | -44.23      | -13           | Vertical     |
| 2577.03         | -44.52      | -13           | Vertical     |
| 8960.83         | -39.34      | -13           | Vertical     |
| 9973.28         | -36.20      | -13           | Vertical     |

Channel 20525

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 1648.40         | -52.83      | -13           | Vertical     |
| 1668.07         | -51.09      | -13           | Vertical     |
| 2533.48         | -44.77      | -13           | Vertical     |
| 2576.24         | -44.18      | -13           | Vertical     |
| 8962.64         | -39.81      | -13           | Vertical     |
| 9971.30         | -36.68      | -13           | Vertical     |

Channel 20600

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 1649.75         | -52.76      | -13           | Vertical     |
| 1667.35         | -51.72      | -13           | Vertical     |
| 2535.14         | -44.21      | -13           | Vertical     |
| 2579.03         | -44.48      | -13           | Vertical     |
| 8963.15         | -39.60      | -13           | Vertical     |
| 9972.77         | -36.79      | -13           | Vertical     |

# LTE band 7

## Test result:

| band  | Modulation | BW<br>(MHz) | Channel | RB/<br>RB offset | EIRP/ERP<br>(dBm) | EIRP/ERP<br>(W) |
|-------|------------|-------------|---------|------------------|-------------------|-----------------|
| Band7 | QPSK       | 5           | 20775   | 1#0              | 23.27             | 0.212           |
| Band7 | QPSK       | 5           | 21100   | 1#0              | 22.51             | 0.178           |
| Band7 | QPSK       | 5           | 21425   | 1#0              | 23.18             | 0.208           |
| Band7 | 16QAM      | 5           | 20775   | 1#0              | 21.06             | 0.128           |
| Band7 | 16QAM      | 5           | 21100   | 1#0              | 20.93             | 0.124           |
| Band7 | 16QAM      | 5           | 21425   | 1#0              | 21.85             | 0.153           |
| Band7 | 64QAM      | 5           | 20775   | 1#0              | 21.70             | 0.148           |
| Band7 | 64QAM      | 5           | 21100   | 1#0              | 20.86             | 0.122           |
| Band7 | 64QAM      | 5           | 21425   | 1#0              | 21.25             | 0.133           |
| Band7 | QPSK       | 10          | 20800   | 1#0              | 22.51             | 0.178           |
| Band7 | QPSK       | 10          | 21100   | 1#0              | 22.75             | 0.188           |
| Band7 | QPSK       | 10          | 21400   | 1#0              | 23.60             | 0.229           |
| Band7 | 16QAM      | 10          | 20800   | 1#0              | 21.14             | 0.130           |
| Band7 | 16QAM      | 10          | 21100   | 1#0              | 21.73             | 0.149           |
| Band7 | 16QAM      | 10          | 21400   | 1#0              | 21.79             | 0.151           |
| Band7 | 64QAM      | 10          | 20800   | 1#0              | 21.08             | 0.128           |
| Band7 | 64QAM      | 10          | 21100   | 1#0              | 21.64             | 0.146           |
| Band7 | 64QAM      | 10          | 21400   | 1#0              | 21.93             | 0.156           |
| Band7 | QPSK       | 15          | 20825   | 1#0              | 22.83             | 0.192           |
| Band7 | QPSK       | 15          | 21100   | 1#0              | 22.74             | 0.188           |
| Band7 | QPSK       | 15          | 21375   | 1#0              | 23.33             | 0.215           |
| Band7 | 16QAM      | 15          | 20825   | 1#0              | 20.93             | 0.124           |
| Band7 | 16QAM      | 15          | 21100   | 1#0              | 21.62             | 0.145           |
| Band7 | 16QAM      | 15          | 21375   | 1#0              | 22.02             | 0.159           |
| Band7 | 64QAM      | 15          | 20825   | 1#0              | 21.57             | 0.144           |
| Band7 | 64QAM      | 15          | 21100   | 1#0              | 21.36             | 0.137           |
| Band7 | 64QAM      | 15          | 21375   | 1#0              | 21.59             | 0.144           |
| Band7 | QPSK       | 20          | 20850   | 1#0              | 23.27             | 0.212           |
| Band7 | QPSK       | 20          | 21100   | 1#0              | 23.40             | 0.219           |
| Band7 | QPSK       | 20          | 21350   | 1#0              | 23.01             | 0.200           |
| Band7 | 16QAM      | 20          | 20850   | 1#0              | 21.82             | 0.152           |
| Band7 | 16QAM      | 20          | 21100   | 1#0              | 21.82             | 0.152           |
| Band7 | 16QAM      | 20          | 21350   | 1#0              | 21.48             | 0.141           |
| Band7 | 64QAM      | 20          | 20850   | 1#0              | 21.76             | 0.150           |
| Band7 | 64QAM      | 20          | 21100   | 1#0              | 21.00             | 0.126           |
| Band7 | 64QAM      | 20          | 21350   | 1#0              | 21.21             | 0.132           |

Test result:

Channel 20850

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 2461.18         | -49.14      | -25           | Vertical     |
| 2780.70         | -47.27      | -25           | Vertical     |
| 3724.53         | -41.16      | -25           | Vertical     |
| 6677.16         | -39.78      | -25           | Vertical     |
| 9961.63         | -36.95      | -25           | Vertical     |
| 17818.57        | -34.37      | -25           | Vertical     |

Channel 21100

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 2459.91         | -49.12      | -25           | Vertical     |
| 2778.81         | -47.42      | -25           | Vertical     |
| 3728.06         | -41.34      | -25           | Vertical     |
| 6675.01         | -39.37      | -25           | Vertical     |
| 9959.75         | -36.79      | -25           | Vertical     |
| 17819.75        | -34.09      | -25           | Vertical     |

Channel 21350

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 2460.40         | -49.27      | -25           | Vertical     |
| 2780.95         | -46.96      | -25           | Vertical     |
| 3726.37         | -40.50      | -25           | Vertical     |
| 6677.37         | -39.58      | -25           | Vertical     |
| 9962.11         | -37.05      | -25           | Vertical     |
| 17819.74        | -33.55      | -25           | Vertical     |

---The end of the test report---