

Fig.7



Fig.8

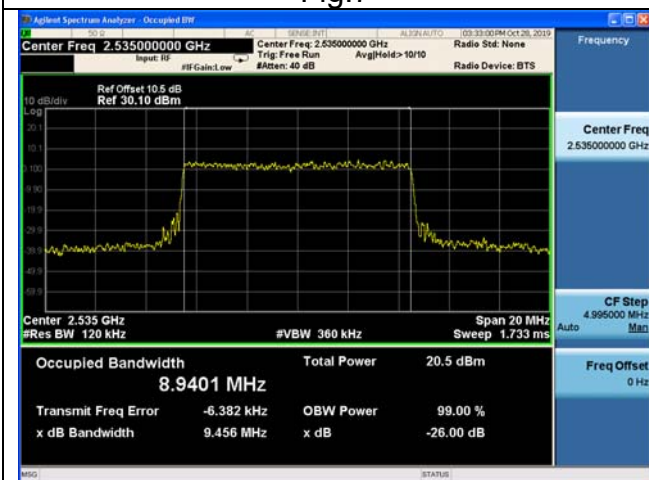


Fig.9

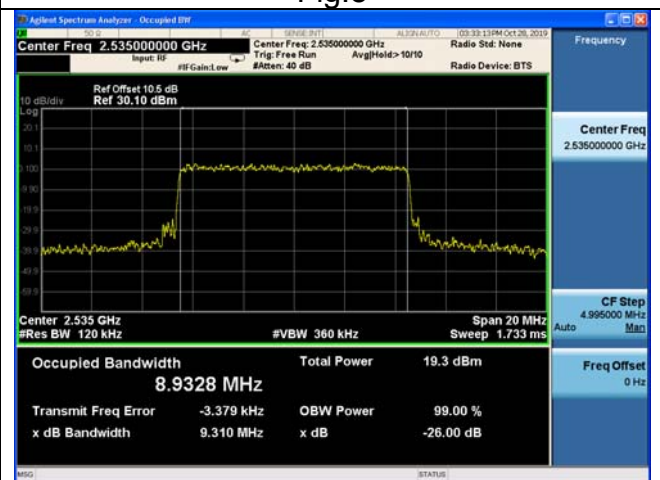


Fig.10

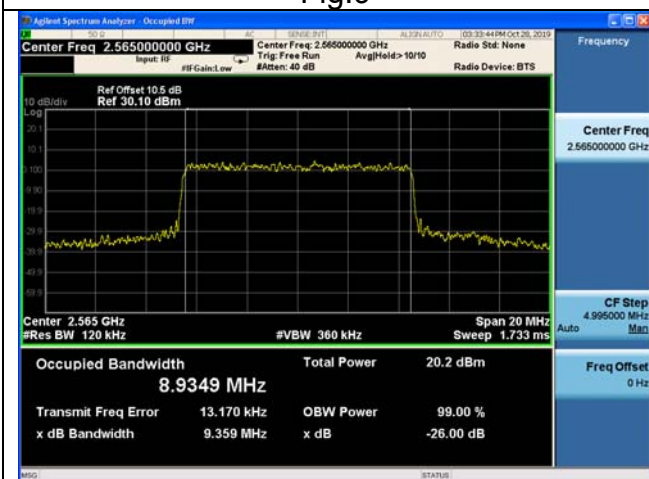


Fig.11

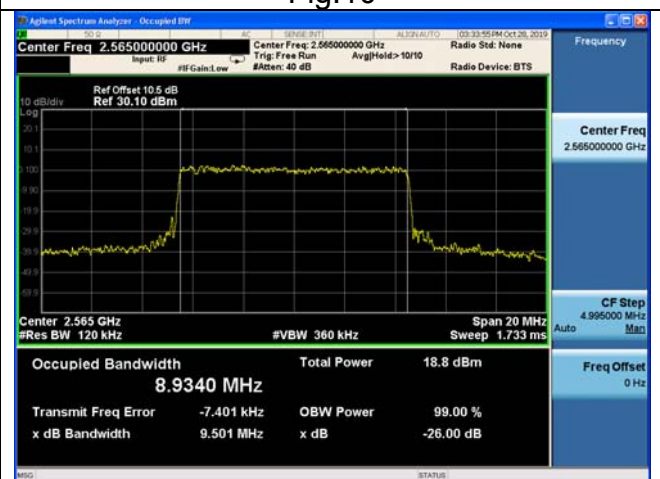


Fig.12

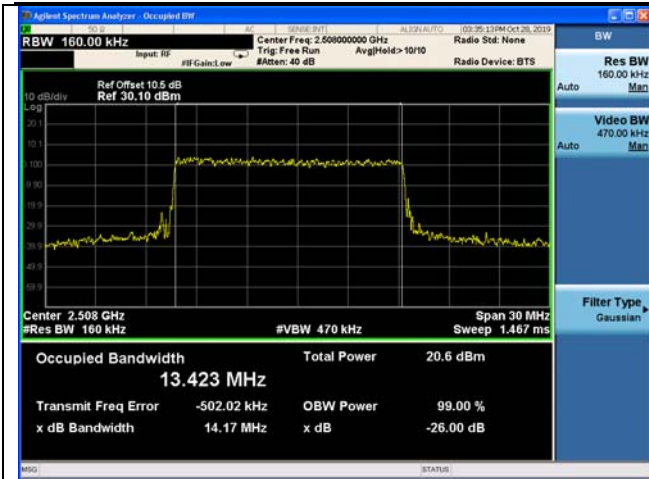


Fig.13

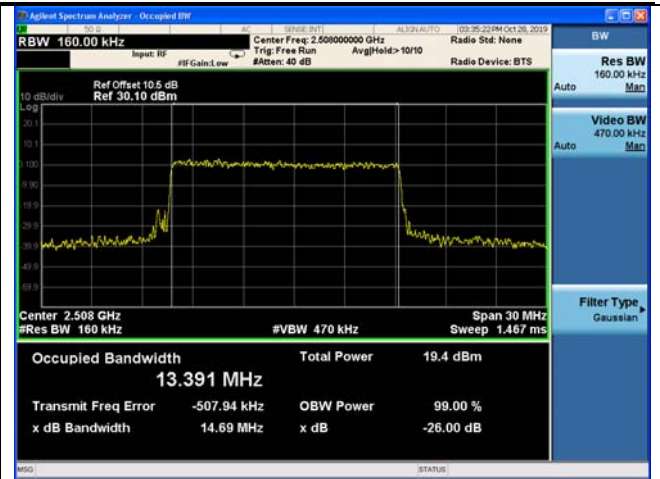


Fig.14

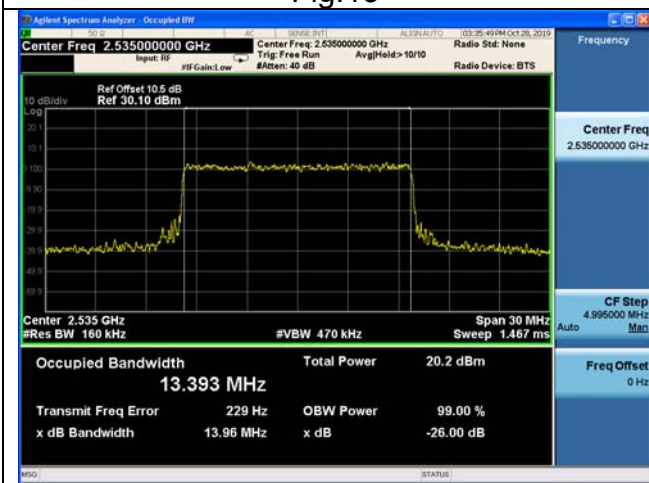


Fig.15

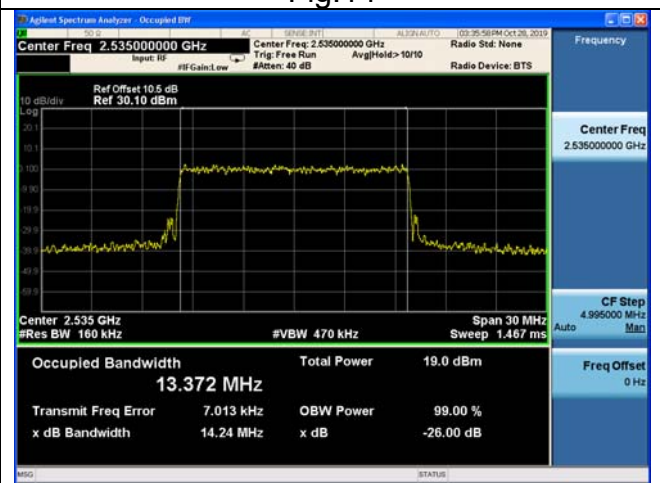


Fig.16

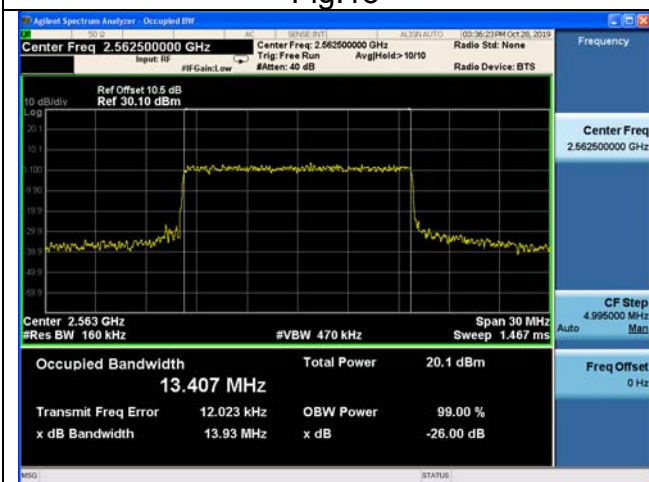


Fig.17

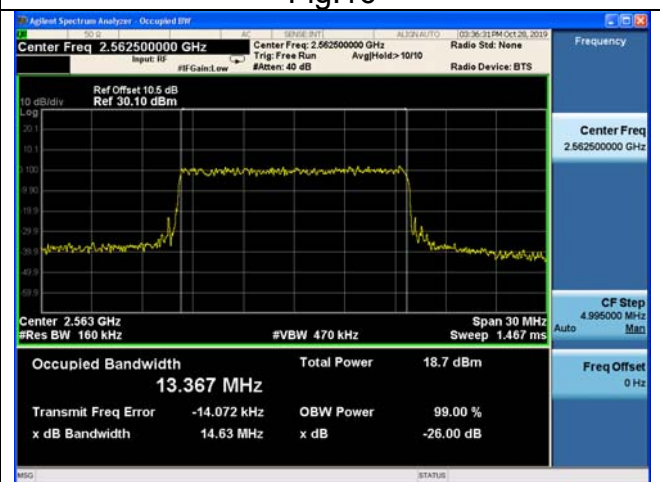


Fig.18

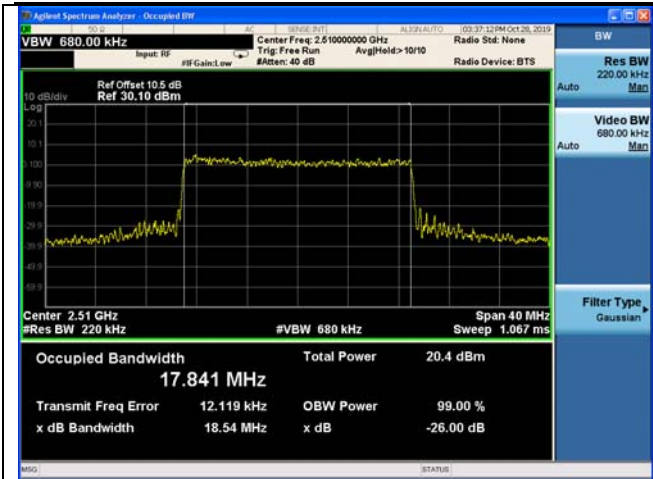


Fig.19

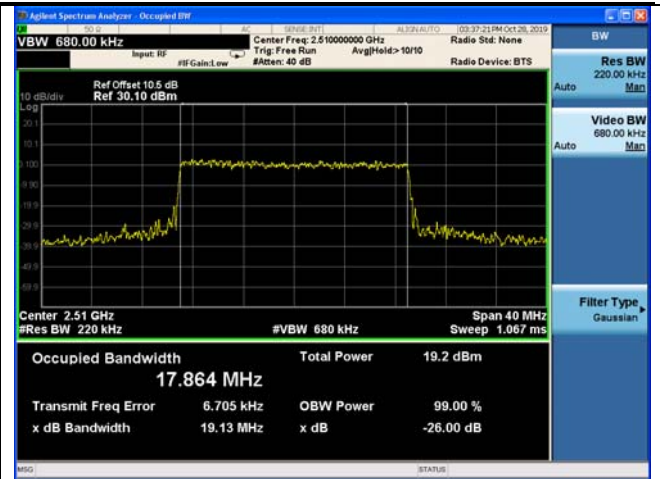


Fig.20

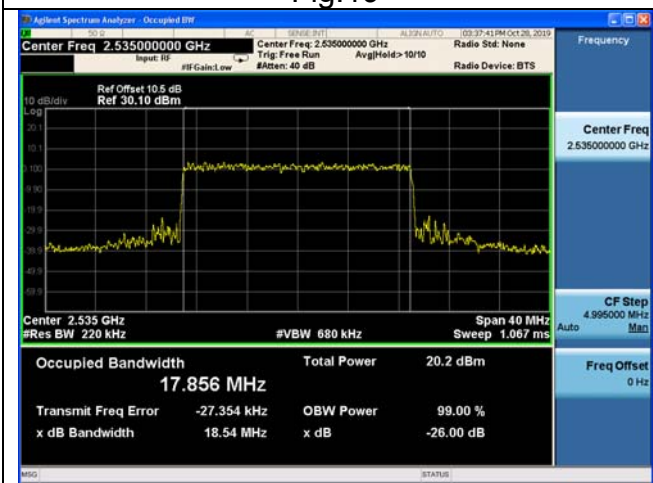


Fig.21

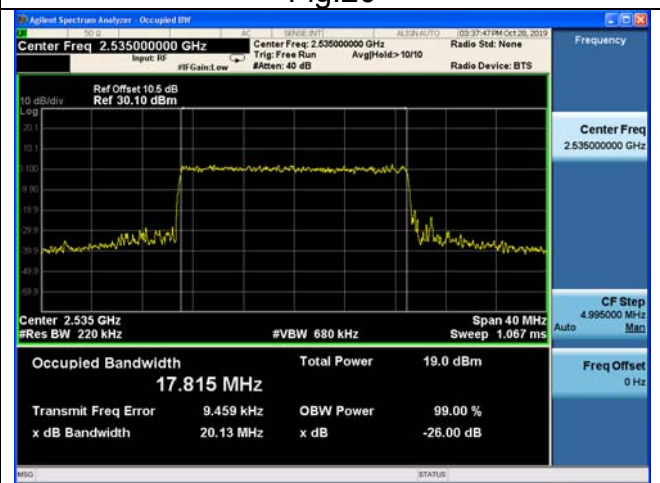


Fig.22

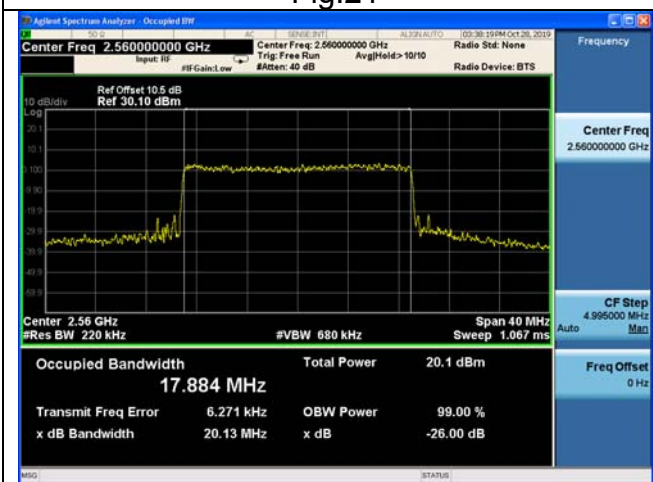


Fig.23

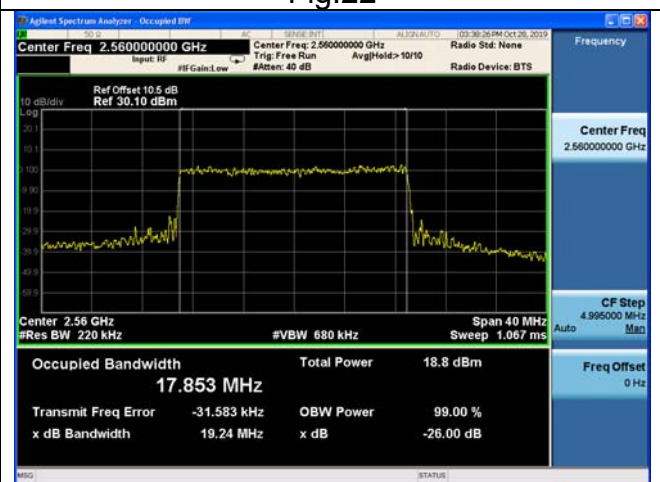


Fig.24

3 Peak-Average Ratio

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

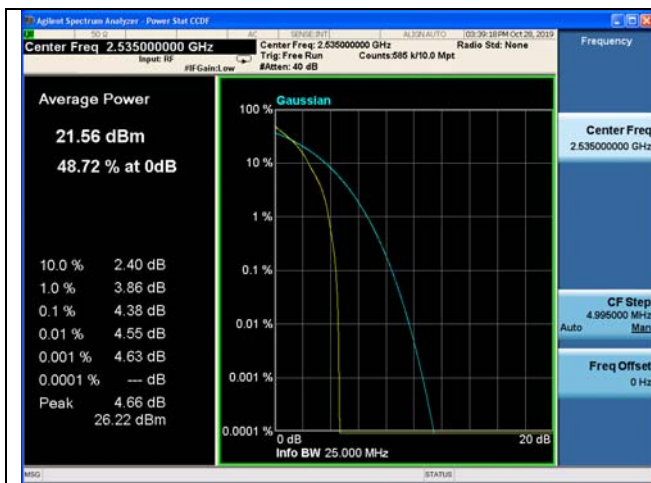


Fig.1

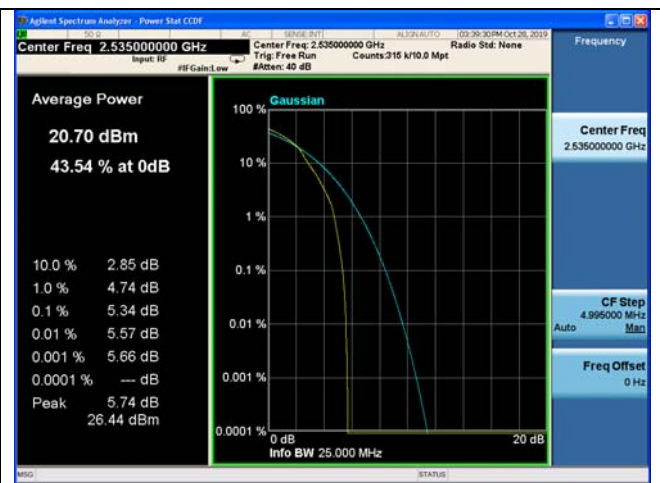


Fig.2

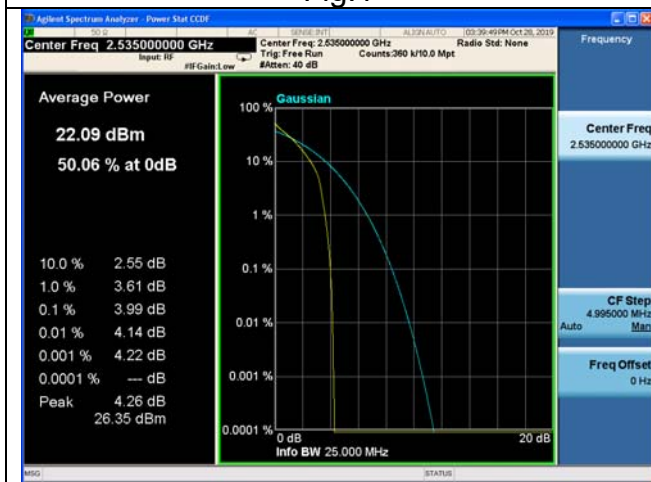


Fig.3



Fig.4

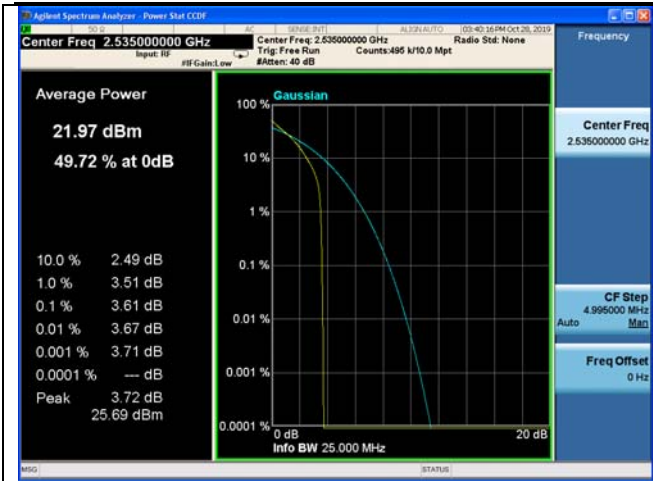


Fig.5



Fig.6

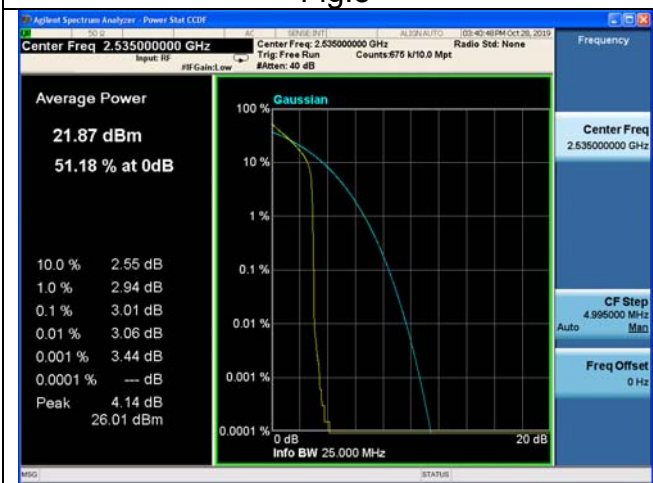


Fig.7

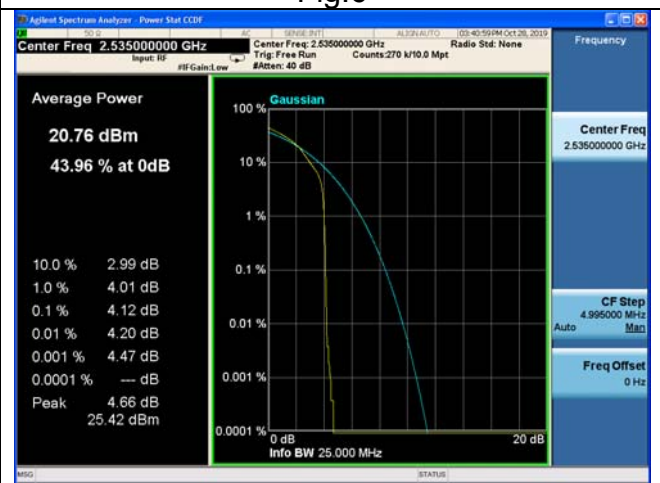


Fig.8

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 |
| | 2535 | 21100 | 20 | 1 | 0 | Fig.2 |
| | 2560 | 21350 | 20 | 1 | 0 | Fig.3 |



Fig.1



Fig.2

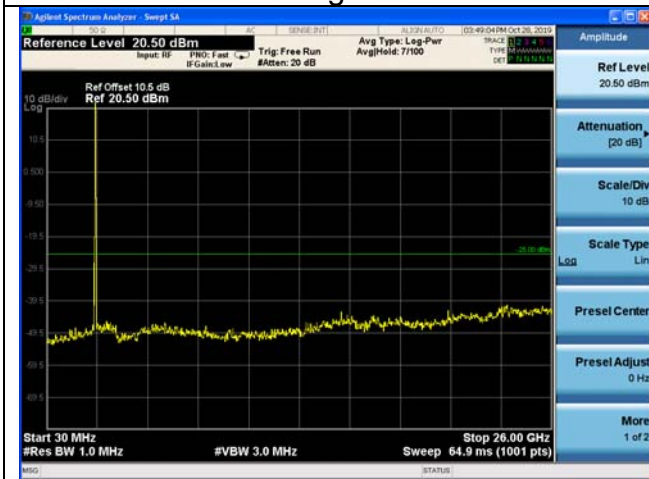


Fig3

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.9 |
| | | | | 25 | 0 | Fig.10 |
| | 2505 | 20800 | 10 | 1 | 0 | Fig.3 |
| | | | | 50 | 0 | Fig.4 |
| | 2565 | 21400 | | 1 | 49 | Fig.11 |
| | | | | 50 | 0 | Fig.12 |
| | 2507.5 | 20825 | 15 | 1 | 0 | Fig.5 |
| | | | | 75 | 0 | Fig.6 |
| | 2562.5 | 21375 | | 1 | 74 | Fig.13 |
| | | | | 75 | 0 | Fig.14 |
| 2510 | 20850 | 20 | 1 | 0 | Fig.7 | |
| | | | 100 | 0 | Fig.8 | |
| 2560 | 21350 | | 1 | 99 | Fig.15 | |
| | | | 100 | 0 | Fig.16 | |

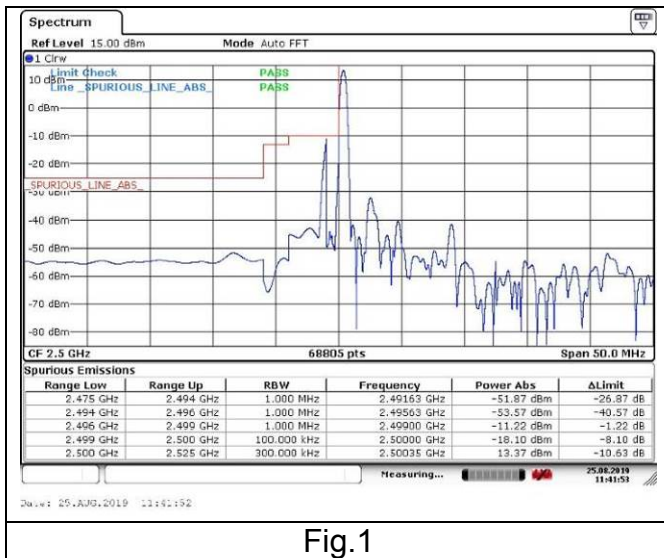


Fig.1

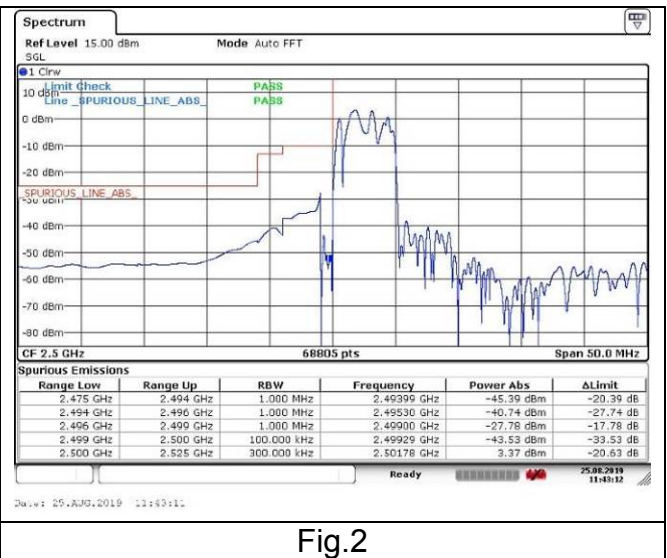


Fig.2

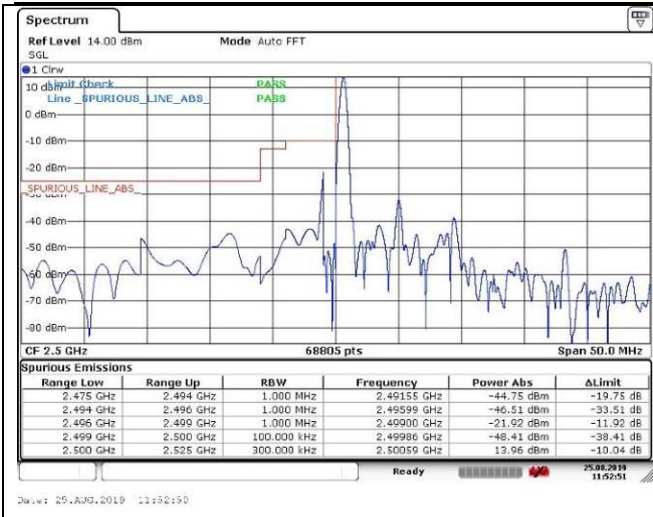


Fig.3

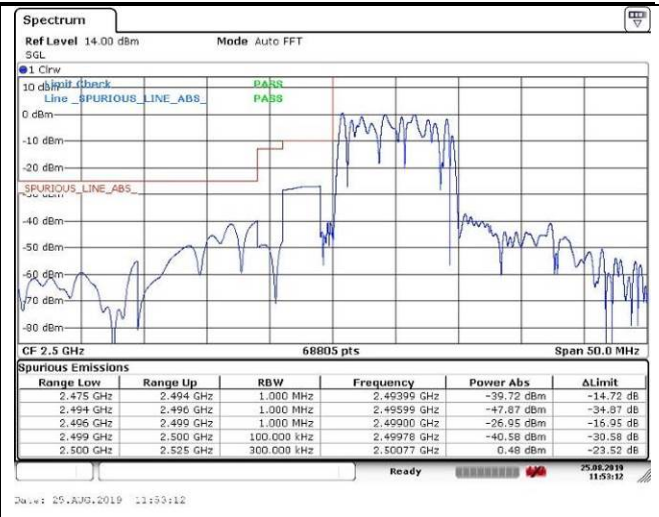


Fig.4

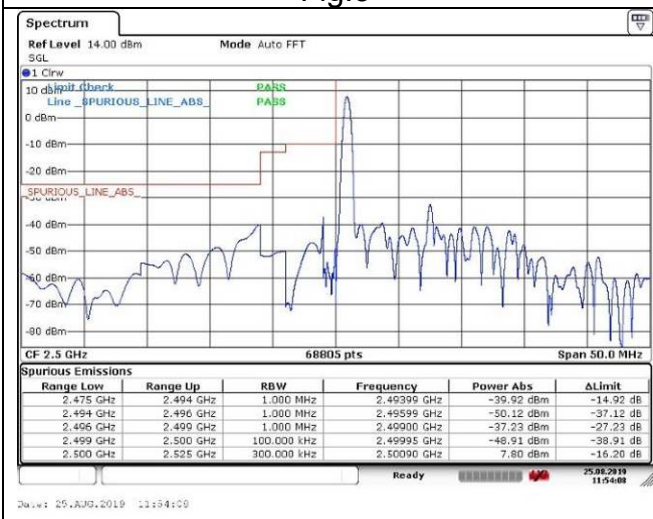


Fig.5

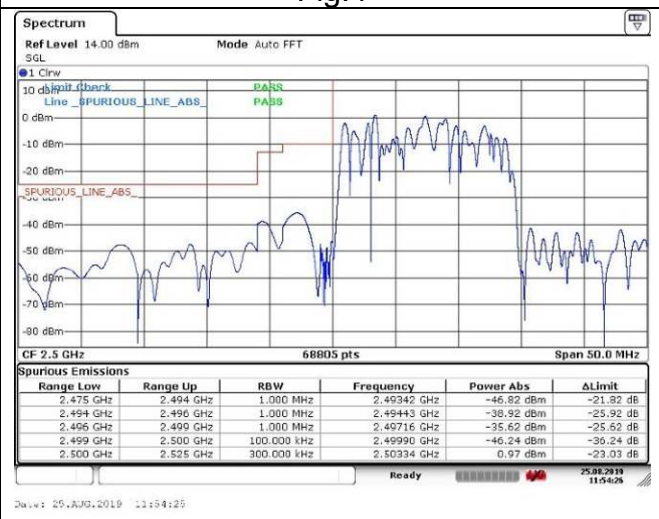


Fig.6

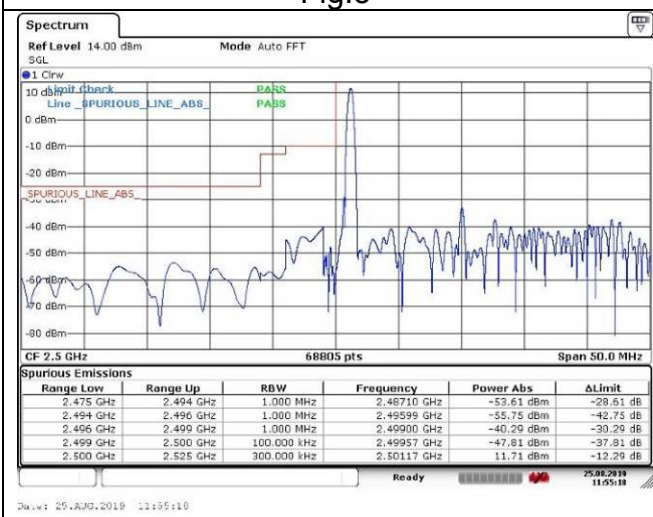


Fig.7

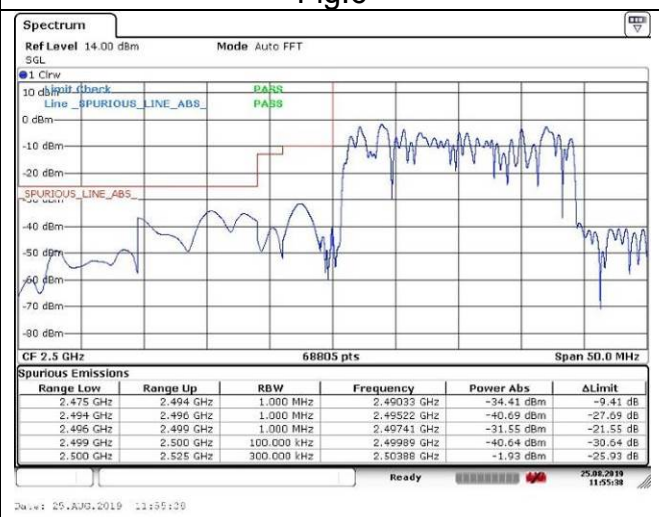


Fig.8

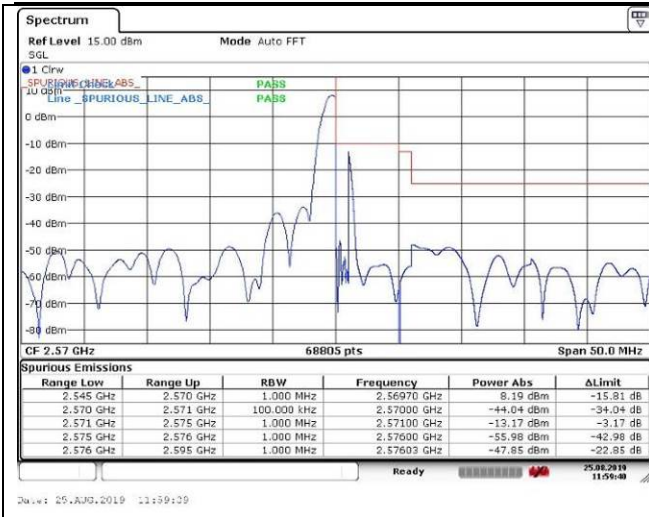


Fig.9

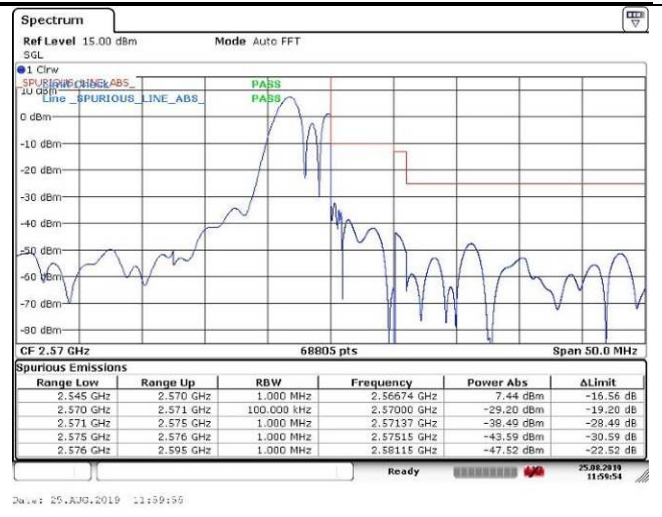


Fig.10

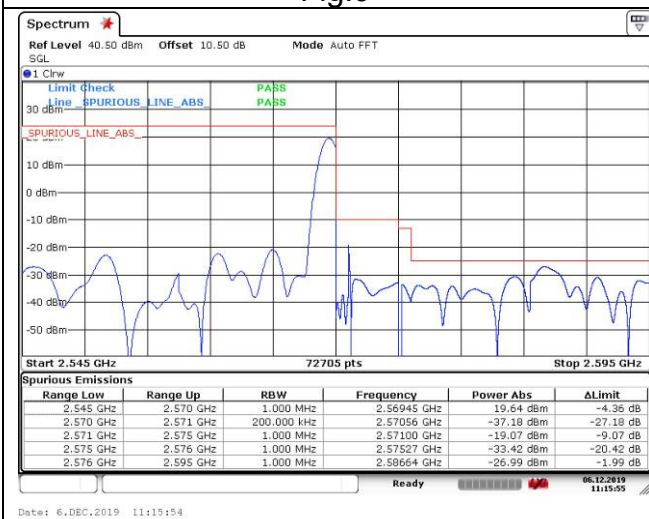


Fig.11

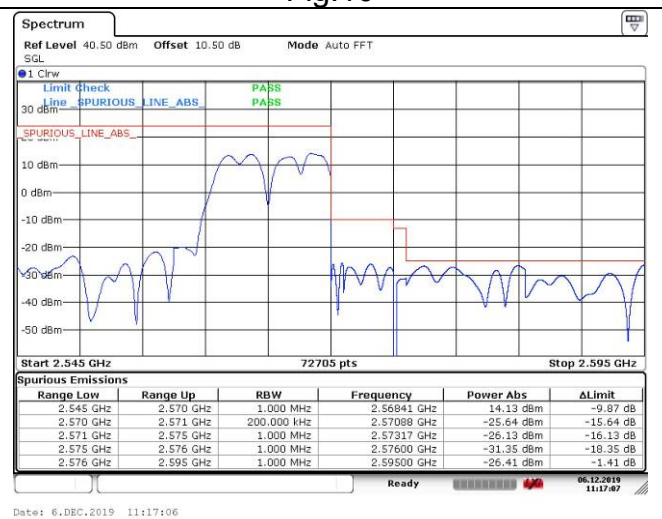


Fig.12

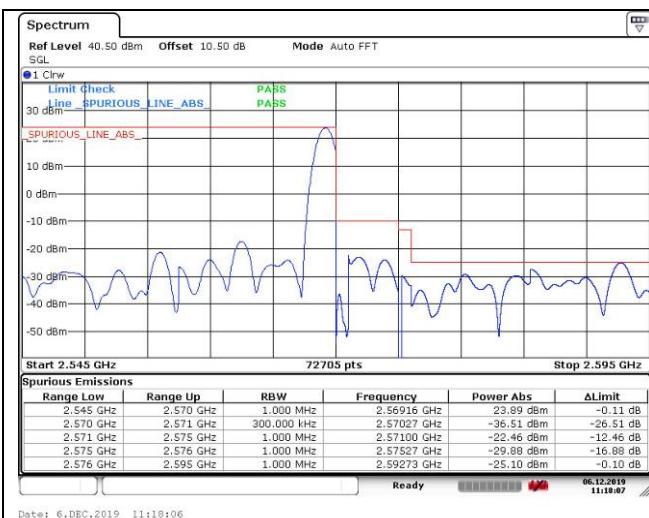


Fig.13

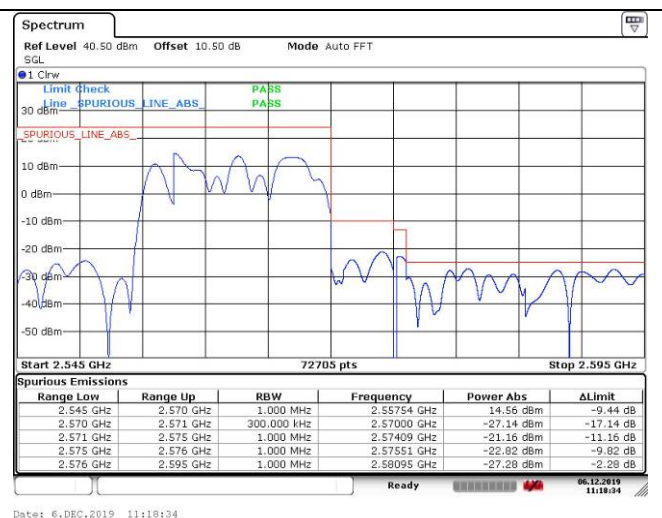


Fig.14

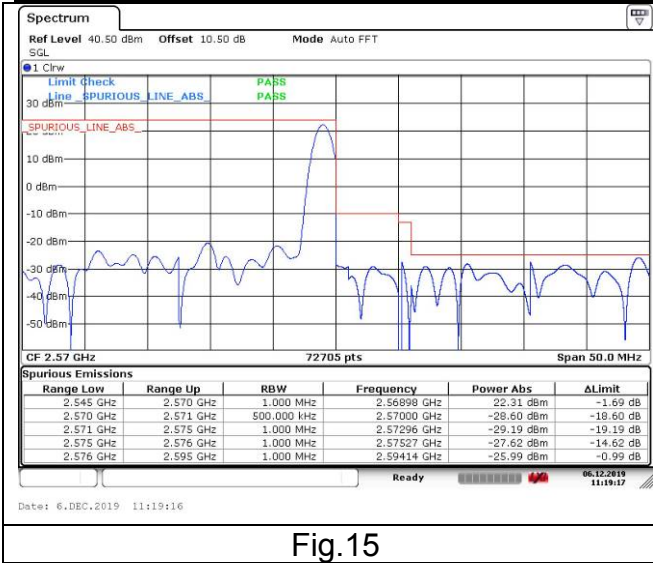


Fig.15

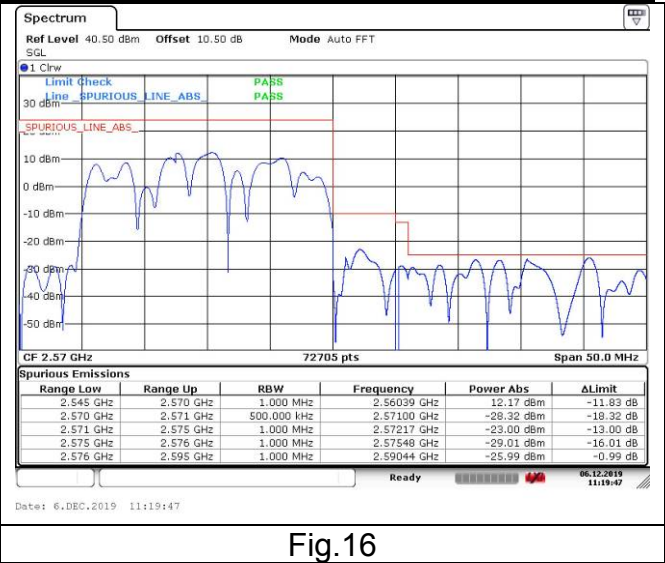


Fig.16

6 Frequency Stability

Test result:

| Temperature(°C) | Voltage | Test Result (ppm) Band7 Low Channel | | | |
|-----------------|---------|-------------------------------------|--------|--------|--------|
| | | 5M | 10M | 15M | 20M |
| -10 | NV | 0.015 | -0.038 | -0.017 | 0.035 |
| 0 | NV | 0.042 | 0.036 | -0.064 | 0.093 |
| +10 | NV | 0.065 | -0.038 | -0.027 | 0.095 |
| +20 | NV | 0.000 | 0.000 | 0.000 | 0.000 |
| +30 | NV | 0.007 | 0.025 | -0.028 | -0.050 |
| +40 | NV | -0.089 | -0.050 | -0.049 | 0.066 |
| +50 | NV | -0.070 | -0.056 | -0.005 | -0.068 |
| +55 | NV | 0.063 | -0.040 | -0.009 | 0.025 |
| +20 | LV | 0.005 | 0.088 | 0.019 | 0.009 |
| +20 | HV | 0.042 | 0.036 | -0.064 | 0.093 |

| Temperature(°C) | Voltage | Test Result (ppm) Band7 High Channel | | | |
|-----------------|---------|--------------------------------------|--------|--------|--------|
| | | 5M | 10M | 15M | 20M |
| -10 | NV | 0.012 | -0.033 | -0.011 | 0.036 |
| 0 | NV | -0.098 | 0.091 | -0.049 | 0.064 |
| +10 | NV | 0.095 | 0.033 | -0.048 | -0.042 |
| +20 | NV | 0.000 | 0.000 | 0.000 | 0.000 |
| +30 | NV | 0.012 | -0.053 | -0.024 | 0.003 |
| +40 | NV | 0.063 | -0.040 | -0.009 | 0.025 |
| +50 | NV | 0.078 | 0.065 | -0.098 | -0.072 |
| +55 | NV | -0.070 | -0.056 | -0.005 | -0.068 |
| +20 | LV | -0.039 | -0.095 | -0.011 | 0.043 |
| +20 | HV | -0.098 | 0.091 | -0.049 | 0.064 |

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 41

1 RF Power Output

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted Average (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-------------------------|
| QPSK | 2498.5 | 39675 | 5 | 1 | 0 | 21.09 |
| | | | | 1 | 24 | 21.09 |
| | | | | 12 | 6 | 19.91 |
| | | | | 25 | 0 | 19.94 |
| | 2593 | 40620 | | 1 | 0 | 21.31 |
| | | | | 1 | 24 | 21.31 |
| | | | | 12 | 6 | 20.24 |
| | | | | 25 | 0 | 20.62 |
| | 2687.5 | 41565 | | 1 | 0 | 22.37 |
| | | | | 1 | 24 | 22.37 |
| | | | | 12 | 6 | 20.87 |
| | | | | 25 | 0 | 20.73 |
| 16QAM | 2498.5 | 39675 | 5 | 1 | 0 | 20.16 |
| | | | | 1 | 24 | 20.13 |
| | | | | 12 | 6 | 19.57 |
| | | | | 25 | 0 | 19.31 |
| | 2593 | 40620 | | 1 | 0 | 20.31 |
| | | | | 1 | 24 | 20.35 |
| | | | | 12 | 6 | 19.55 |
| | | | | 25 | 0 | 19.59 |
| | 2687.5 | 41565 | | 1 | 0 | 20.32 |
| | | | | 1 | 24 | 20.20 |
| | | | | 12 | 6 | 19.50 |
| | | | | 25 | 0 | 19.43 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted Average (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-------------------------|
| QPSK | 2501 | 39700 | 10 | 1 | 0 | 21.98 |
| | | | | 1 | 49 | 21.98 |
| | | | | 24 | 12 | 20.40 |
| | | | | 50 | 0 | 20.62 |
| | 2593 | 40620 | | 1 | 0 | 22.73 |
| | | | | 1 | 49 | 22.73 |
| | | | | 24 | 12 | 21.24 |
| | | | | 50 | 0 | 21.26 |
| | 2685 | 41540 | | 1 | 0 | 22.75 |
| | | | | 1 | 49 | 22.75 |
| | | | | 24 | 12 | 22.00 |
| | | | | 50 | 0 | 21.88 |
| 16QAM | 2501 | 39700 | 10 | 1 | 0 | 20.23 |
| | | | | 1 | 49 | 20.41 |
| | | | | 24 | 12 | 19.67 |
| | | | | 50 | 0 | 19.47 |
| | 2593 | 40620 | | 1 | 0 | 20.50 |
| | | | | 1 | 49 | 20.29 |
| | | | | 24 | 12 | 19.45 |
| | | | | 50 | 0 | 19.44 |
| | 2685 | 41540 | | 1 | 0 | 20.34 |
| | | | | 1 | 49 | 20.36 |
| | | | | 24 | 12 | 19.69 |
| | | | | 50 | 0 | 19.37 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted Average (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-------------------------|
| QPSK | 2503.5 | 39725 | 15 | 1 | 0 | 22.09 |
| | | | | 1 | 74 | 22.09 |
| | | | | 40 | 18 | 20.80 |
| | | | | 75 | 0 | 21.13 |
| | 2593 | 40620 | | 1 | 0 | 22.81 |
| | | | | 1 | 74 | 22.68 |
| | | | | 40 | 18 | 21.08 |
| | | | | 75 | 0 | 21.27 |
| | 2682.5 | 41515 | | 1 | 0 | 22.20 |
| | | | | 1 | 74 | 22.20 |
| | | | | 40 | 18 | 21.97 |
| | | | | 75 | 0 | 21.95 |
| 16QAM | 2503.5 | 39725 | 15 | 1 | 0 | 20.37 |
| | | | | 1 | 74 | 20.45 |
| | | | | 40 | 18 | 19.51 |
| | | | | 75 | 0 | 19.55 |
| | 2593 | 40620 | | 1 | 0 | 20.48 |
| | | | | 1 | 74 | 20.51 |
| | | | | 40 | 18 | 19.54 |
| | | | | 75 | 0 | 19.57 |
| | 2682.5 | 41515 | | 1 | 0 | 20.27 |
| | | | | 1 | 74 | 20.39 |
| | | | | 40 | 18 | 19.58 |
| | | | | 75 | 0 | 19.37 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted Average (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-------------------------|
| QPSK | 2506 | 39750 | 20 | 1 | 0 | 21.83 |
| | | | | 1 | 99 | 21.83 |
| | | | | 50 | 25 | 20.87 |
| | | | | 100 | 0 | 21.22 |
| | 2593 | 40620 | | 1 | 0 | 22.67 |
| | | | | 1 | 99 | 22.67 |
| | | | | 50 | 25 | 21.13 |
| | | | | 100 | 0 | 21.25 |
| | 2680 | 41490 | | 1 | 0 | 22.98 |
| | | | | 1 | 99 | 22.98 |
| | | | | 50 | 25 | 21.80 |
| | | | | 100 | 0 | 21.95 |
| 16QAM | 2506 | 39750 | 20 | 1 | 0 | 20.42 |
| | | | | 1 | 99 | 20.47 |
| | | | | 50 | 25 | 19.67 |
| | | | | 100 | 0 | 19.63 |
| | 2593 | 40620 | | 1 | 0 | 20.51 |
| | | | | 1 | 99 | 20.51 |
| | | | | 50 | 25 | 19.75 |
| | | | | 100 | 0 | 19.65 |
| | 2680 | 41490 | | 1 | 0 | 20.46 |
| | | | | 1 | 99 | 20.47 |
| | | | | 50 | 25 | 19.66 |
| | | | | 100 | 0 | 19.59 |

2 Occupied Bandwidth

Test result

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of 99% Power (MHz) | | | |
|------|-------------------------|---------|----------|---------|-----------|------------------------------|--------|--------|--------|
| | | | | | | QPSK | | 16-QAM | |
| 41 | 2498.5 | 39675 | 5 | 25 | 0 | 4.442 | Fig.1 | 4.465 | Fig.2 |
| | 2593 | 40620 | | 25 | 0 | 4.483 | Fig.3 | 4.495 | Fig.4 |
| | 2687.5 | 41565 | | 25 | 0 | 4.452 | Fig.5 | 4.495 | Fig.6 |
| | 2501 | 39700 | 10 | 50 | 0 | 8.914 | Fig.7 | 8.850 | Fig.8 |
| | 2593 | 40620 | | 50 | 0 | 8.985 | Fig.9 | 8.983 | Fig.10 |
| | 2685 | 41540 | | 50 | 0 | 9.034 | Fig.11 | 9.001 | Fig.12 |
| | 2503.5 | 39725 | 15 | 75 | 0 | 13.127 | Fig.13 | 13.165 | Fig.14 |
| | 2593 | 40620 | | 75 | 0 | 13.456 | Fig.15 | 13.435 | Fig.16 |
| | 2682.5 | 41515 | | 75 | 0 | 13.462 | Fig.17 | 13.457 | Fig.18 |
| | 2506 | 39750 | 20 | 100 | 0 | 17.666 | Fig.19 | 17.517 | Fig.20 |
| | 2593 | 40620 | | 100 | 0 | 17.961 | Fig.21 | 17.957 | Fig.22 |
| | 2680 | 41490 | | 100 | 0 | 17.948 | Fig.23 | 17.918 | Fig.24 |

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of -26dB transmitter power (MHz) | | | |
|------|-------------------------|---------|----------|---------|-----------|--|--------|--------|--------|
| | | | | | | QPSK | | 16-QAM | |
| 41 | 2498.5 | 39675 | 5 | 25 | 0 | 4.781 | Fig.1 | 5.014 | Fig.2 |
| | 2593 | 40620 | | 25 | 0 | 5.733 | Fig.3 | 6.903 | Fig.4 |
| | 2687.5 | 41565 | | 25 | 0 | 6.383 | Fig.5 | 4.914 | Fig.6 |
| | 2501 | 39700 | 10 | 50 | 0 | 10.32 | Fig.7 | 12.37 | Fig.8 |
| | 2593 | 40620 | | 50 | 0 | 13.01 | Fig.9 | 13.79 | Fig.10 |
| | 2685 | 41540 | | 50 | 0 | 13.06 | Fig.11 | 15.48 | Fig.12 |
| | 2503.5 | 39725 | 15 | 75 | 0 | 14.18 | Fig.13 | 13.92 | Fig.14 |
| | 2593 | 40620 | | 75 | 0 | 14.95 | Fig.15 | 15.08 | Fig.16 |
| | 2682.5 | 41515 | | 75 | 0 | 15.16 | Fig.17 | 15.08 | Fig.18 |
| | 2506 | 39750 | 20 | 100 | 0 | 21.78 | Fig.19 | 21.76 | Fig.20 |
| | 2593 | 40620 | | 100 | 0 | 23.61 | Fig.21 | 21.62 | Fig.22 |
| | 2680 | 41490 | | 100 | 0 | 21.09 | Fig.23 | 22.19 | Fig.24 |

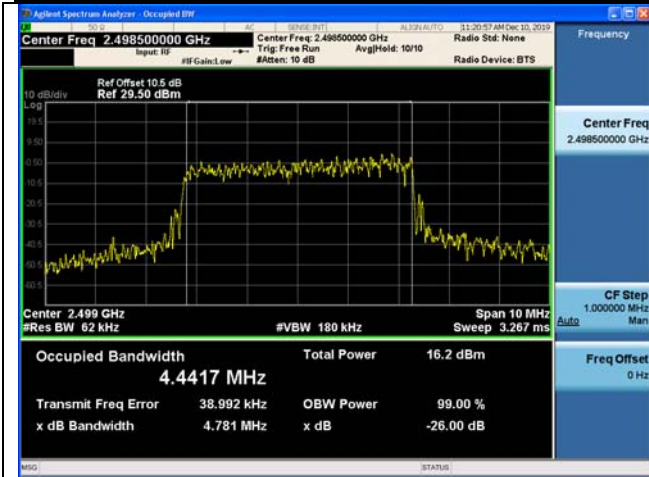


Fig.1

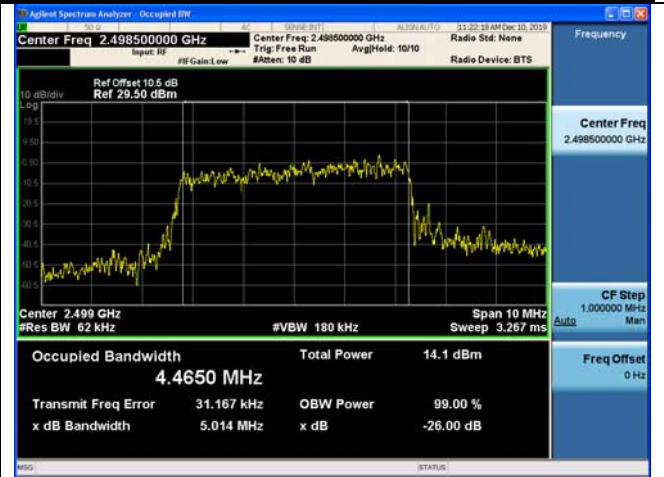


Fig.2

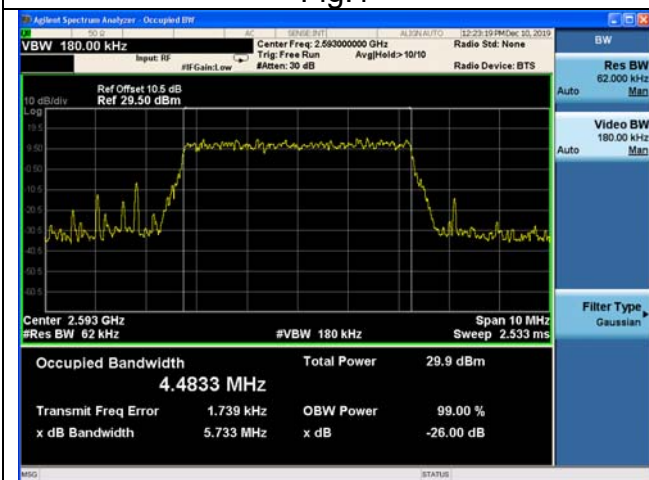


Fig.3

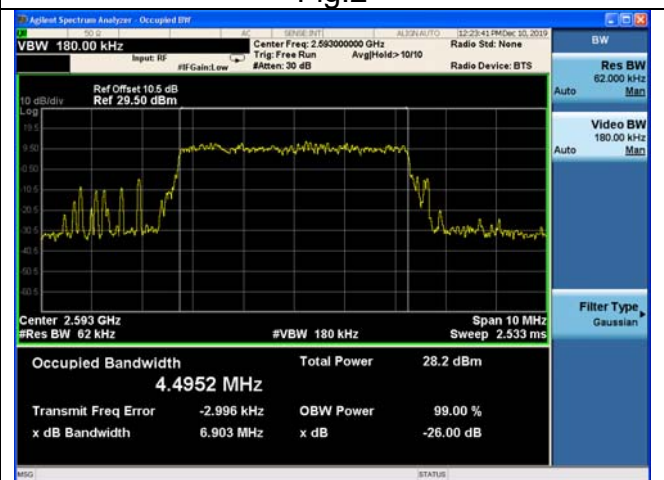


Fig.4

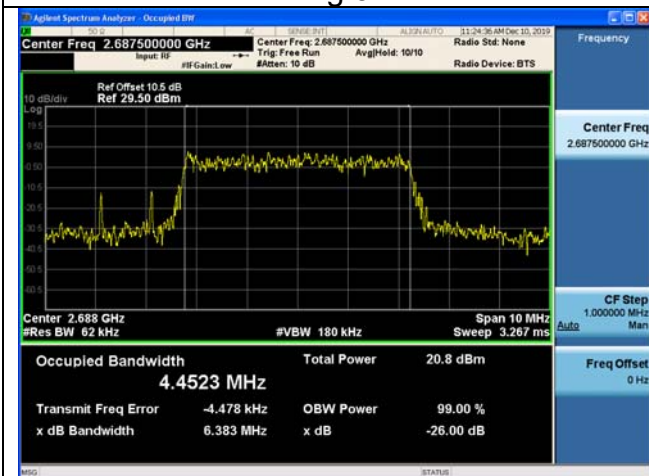


Fig.5

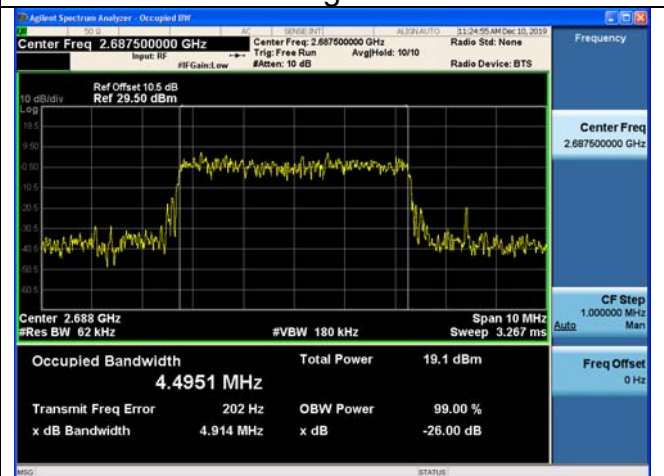


Fig.6

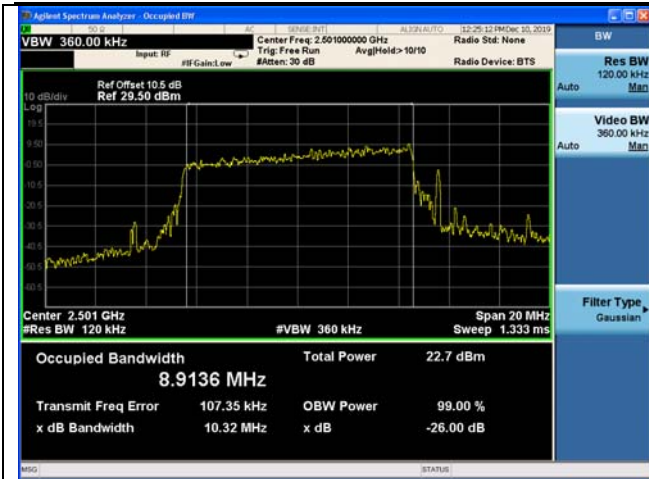


Fig.7

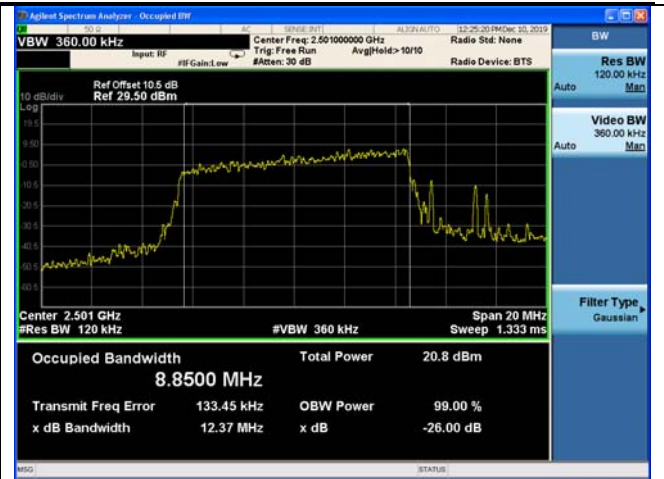


Fig.8

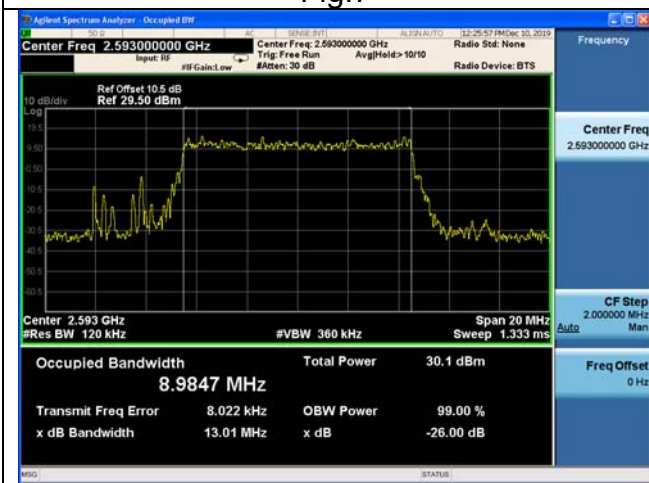


Fig.9

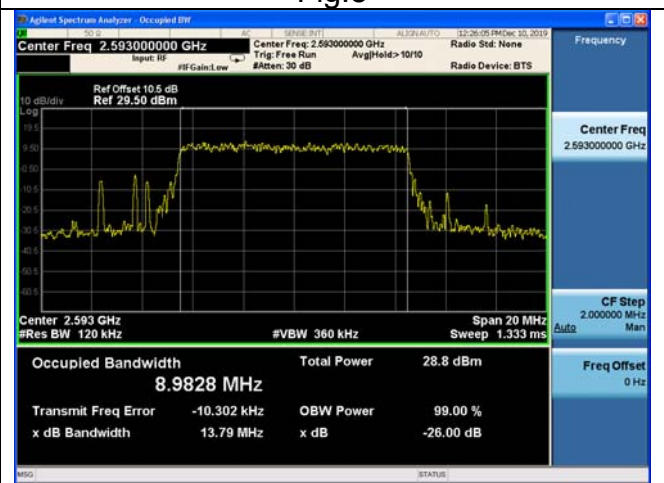


Fig.10

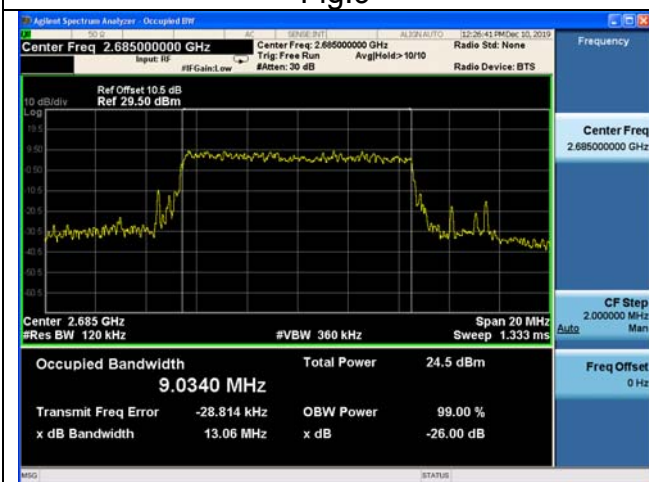


Fig.11

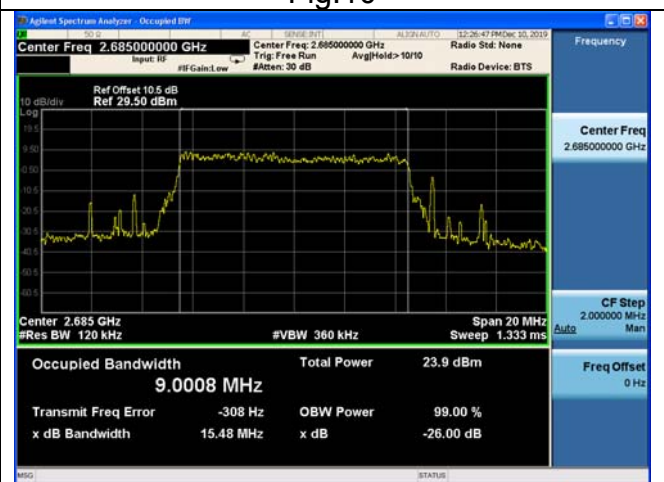


Fig.12

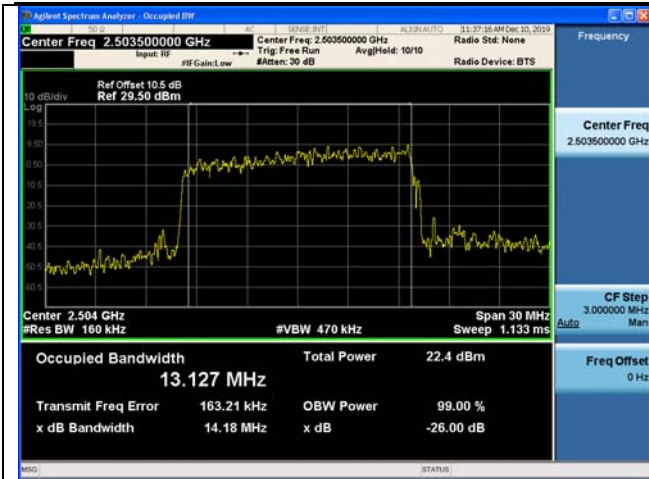


Fig.13

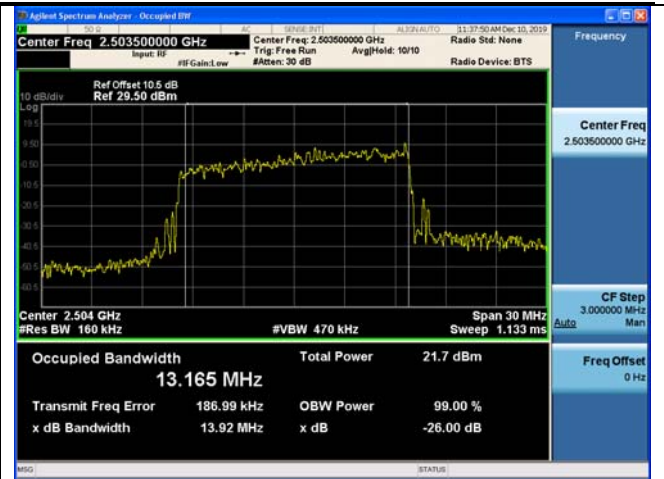


Fig.14

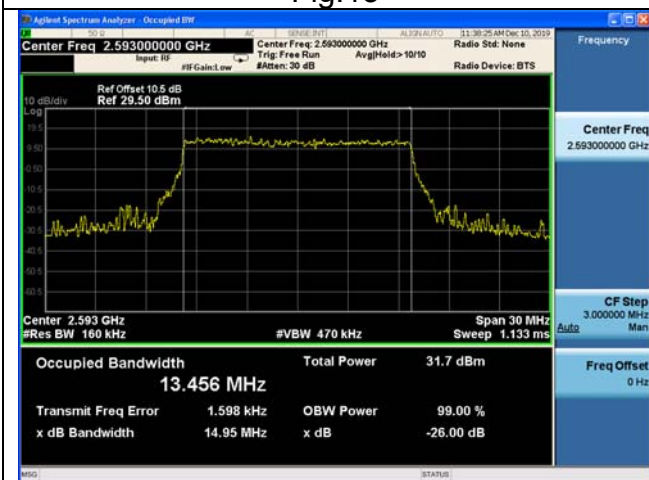


Fig.15

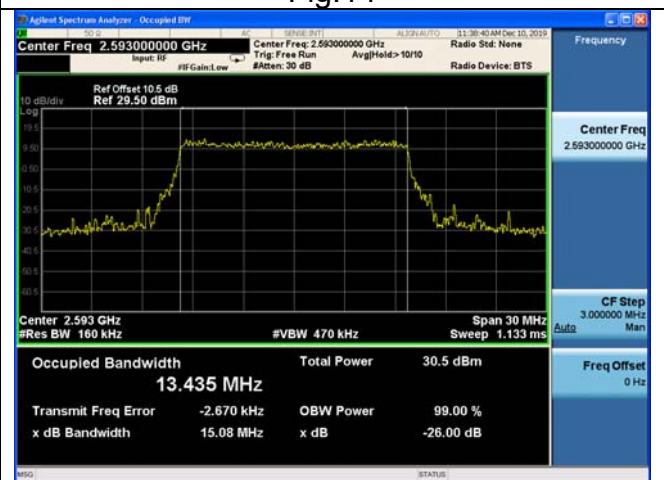


Fig.16

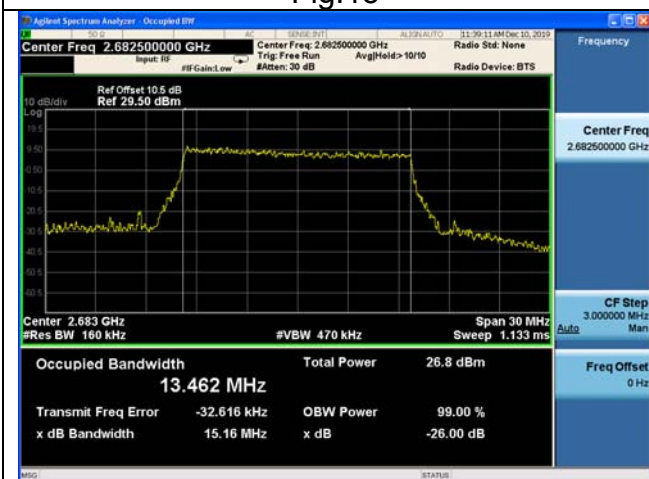


Fig.17

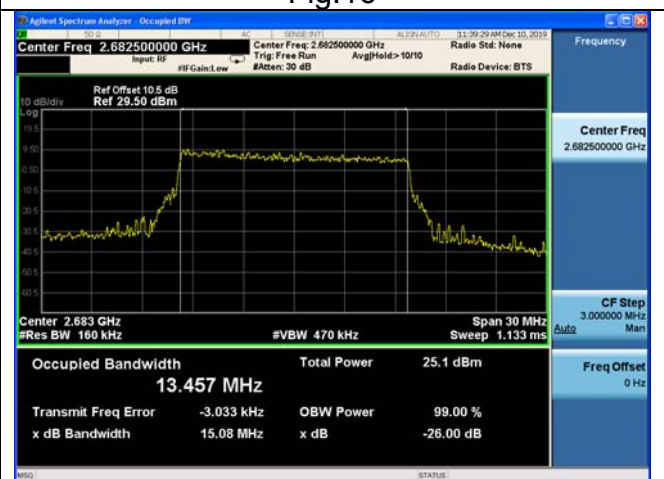


Fig.18

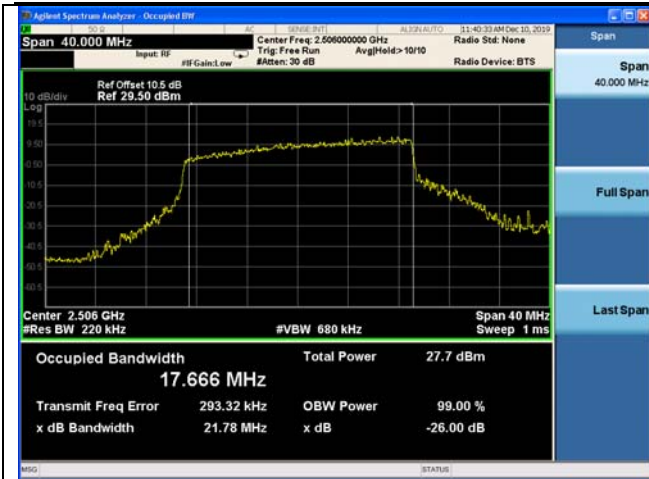


Fig.19



Fig.20

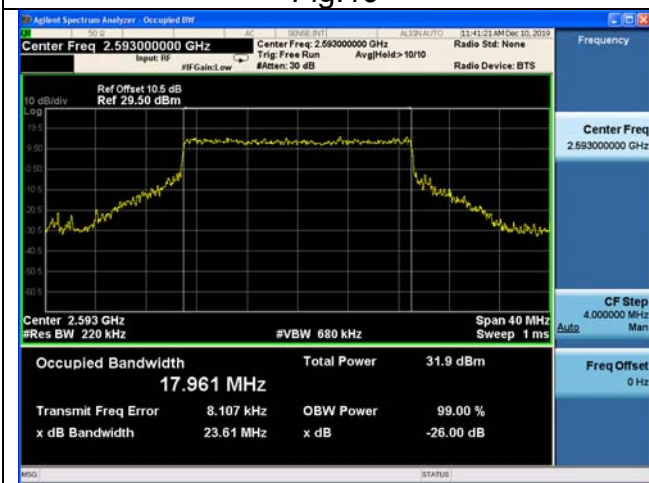


Fig.21

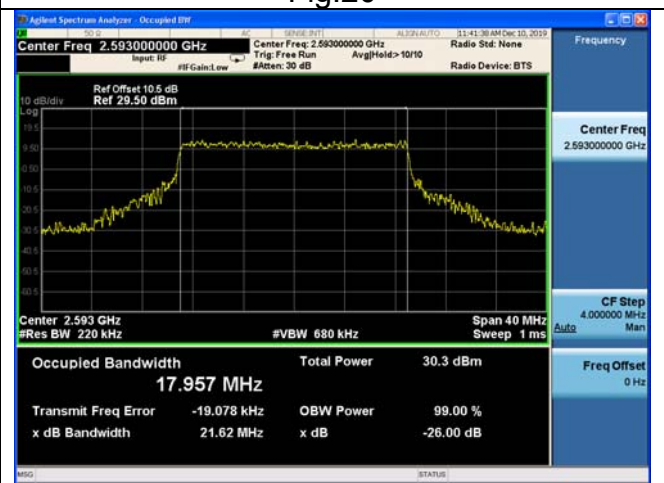


Fig.22

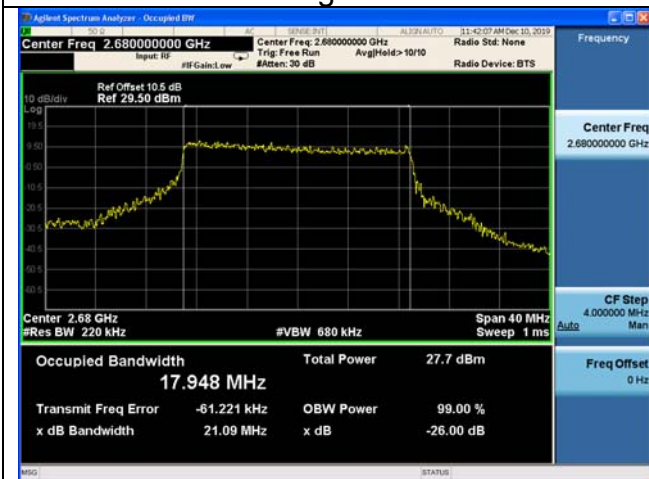


Fig.23

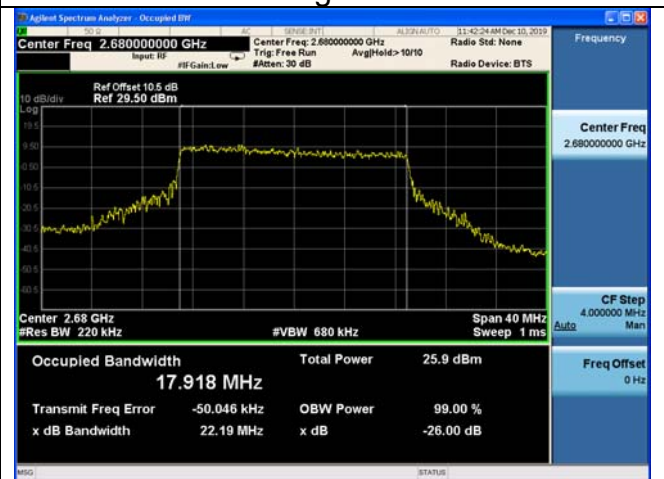


Fig.24

3 Peak-Average Ratio

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | QPSK | 16-QAM |
|------|-------------------------|---------|----------|---------|-----------|-------|--------|
| 41 | 2593 | 40620 | 5 | 1 | 0 | Fig.1 | Fig.2 |
| | | | 10 | 1 | 0 | Fig.3 | Fig.4 |
| | | | 15 | 1 | 0 | Fig.5 | Fig.6 |
| | | | 20 | 1 | 0 | Fig.7 | Fig.8 |



Fig.1



Fig.2



Fig.3

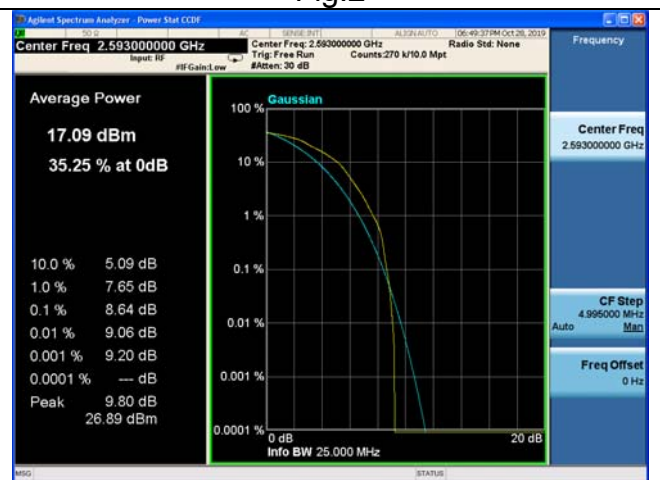


Fig.4



Fig.5

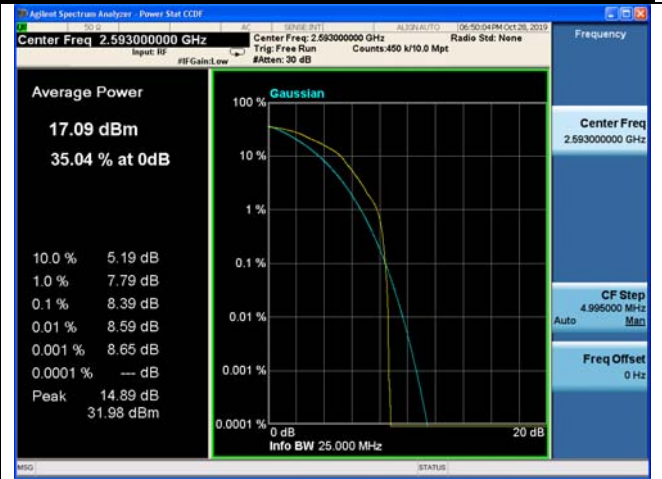


Fig.6

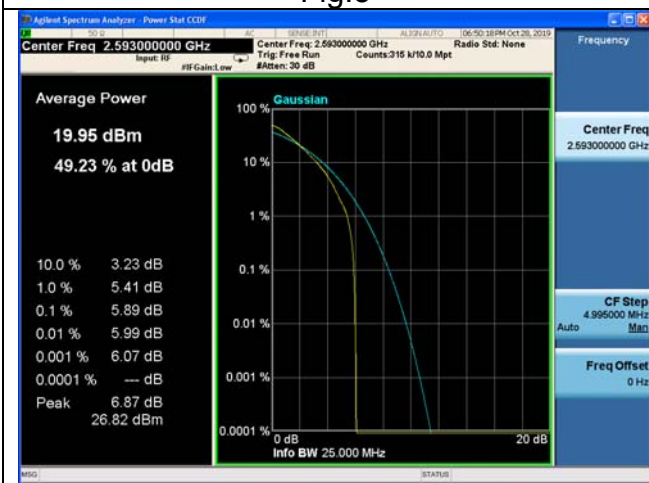


Fig.7

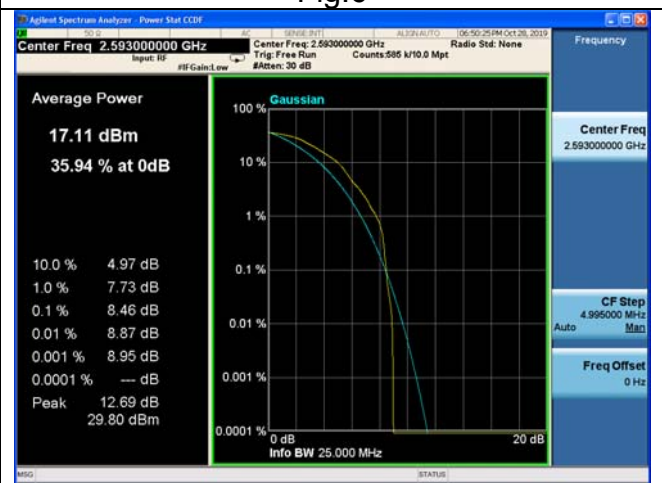


Fig.8

4 Spurious Emissions at antenna terminal

| Band | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Conducted Spurious Plot |
|------|-------------------------|---------|----|---------|-----------|-------------------------|
| | | | | | | QPSK |
| 41 | 2537.5 | 40065 | 20 | 1 | 0 | Fig.1 |
| | 2593 | 40620 | 20 | 1 | 0 | Fig.2 |
| | 2645 | 41140 | 20 | 1 | 0 | Fig.3 |



Fig.1



Fig.2



Fig3

5 Band Edges Compliance

Test result

| Band | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Band Edges Plot |
|------|-------------------------|---------|----|---------|-----------|-----------------|
| | | | | | | QPSK |
| 41 | 2498.5 | 39675 | 5 | 25 | 0 | Fig.1 |
| | 2687.5 | 41565 | | 25 | 0 | Fig.5 |
| | 2501 | 39700 | 10 | 50 | 0 | Fig.2 |
| | 2685 | 41540 | | 50 | 0 | Fig.6 |
| | 2503.5 | 39725 | 15 | 75 | 0 | Fig.3 |
| | 2682.5 | 41515 | | 75 | 0 | Fig.7 |
| | 2506 | 39750 | 20 | 100 | 0 | Fig.4 |
| | 2680 | 41490 | | 100 | 0 | Fig.8 |

| Band | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Band Edges Plot |
|------|-------------------------|---------|----|---------|-----------|-----------------|
| | | | | | | QPSK |
| 41 | 2498.5 | 39675 | 5 | 1 | 0 | Fig.9 |
| | 2687.5 | 41565 | | 1 | 24 | Fig.13 |
| | 2501 | 39700 | 10 | 1 | 0 | Fig.10 |
| | 2685 | 41540 | | 1 | 49 | Fig.14 |
| | 2503.5 | 39725 | 15 | 1 | 0 | Fig.11 |
| | 2682.5 | 41515 | | 1 | 74 | Fig.15 |
| | 2506 | 39750 | 20 | 1 | 0 | Fig.12 |
| | 2680 | 41490 | | 1 | 99 | Fig.16 |

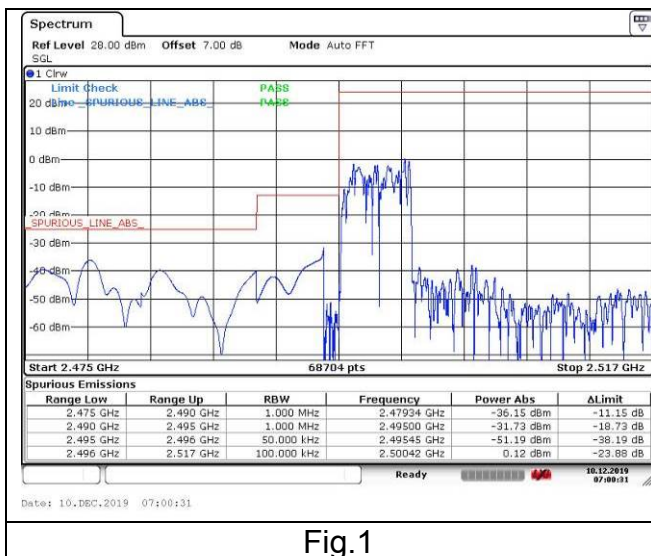


Fig.1

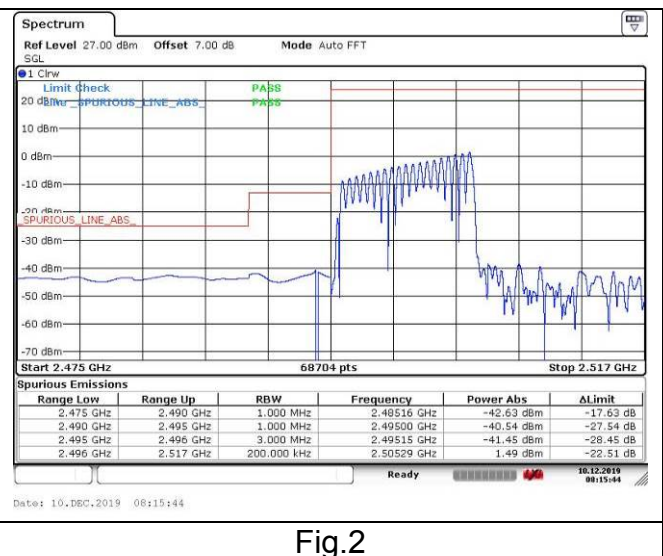


Fig.2

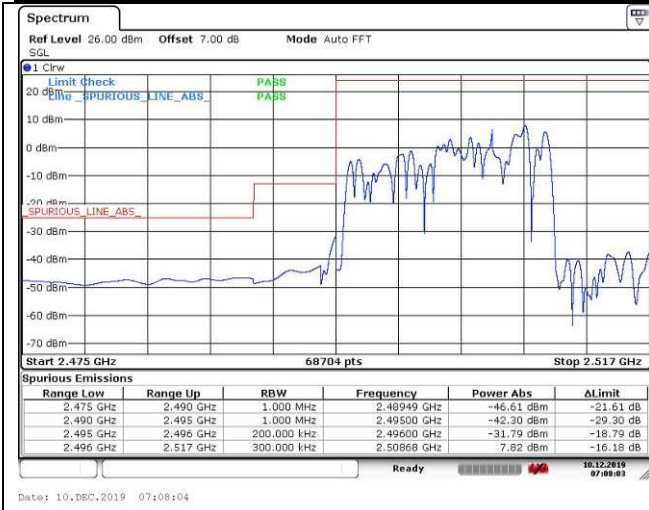


Fig.3

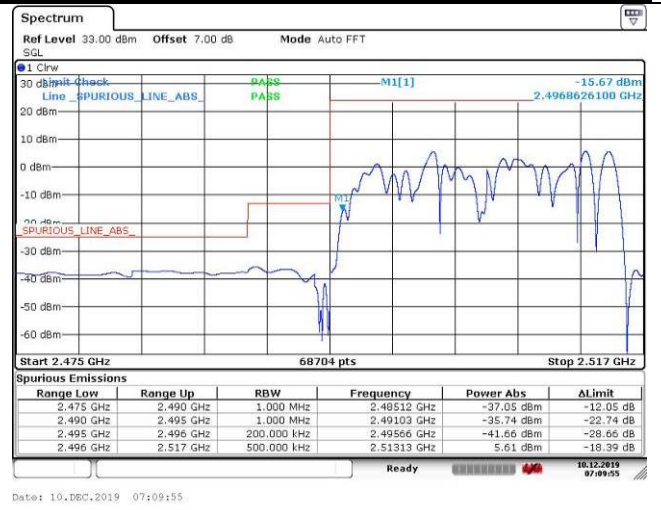


Fig.4

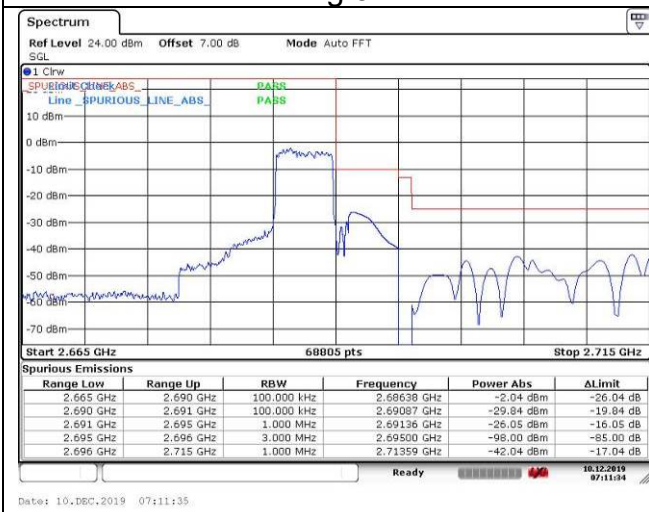


Fig.5

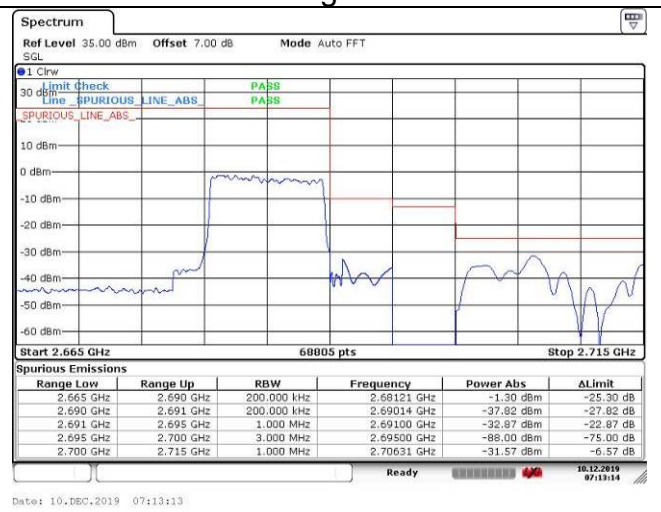


Fig.6

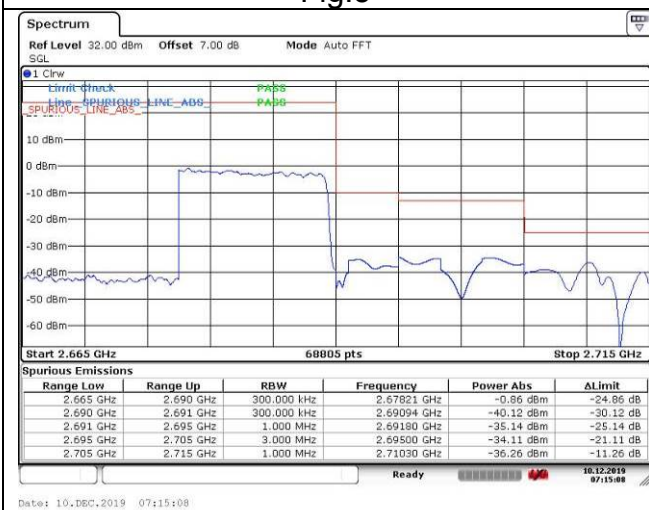


Fig.7

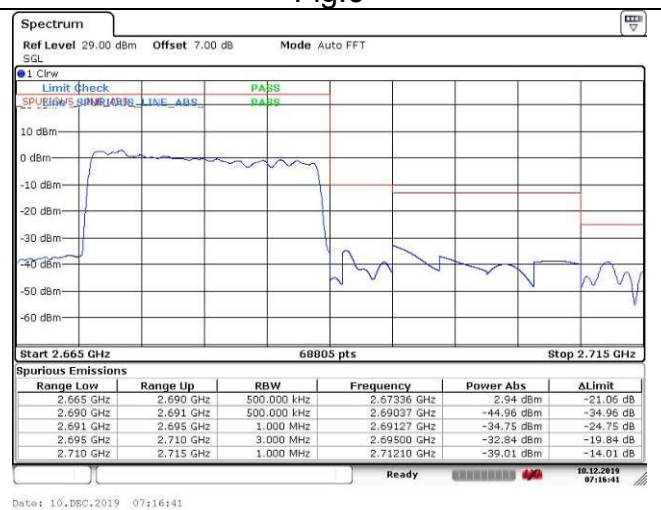
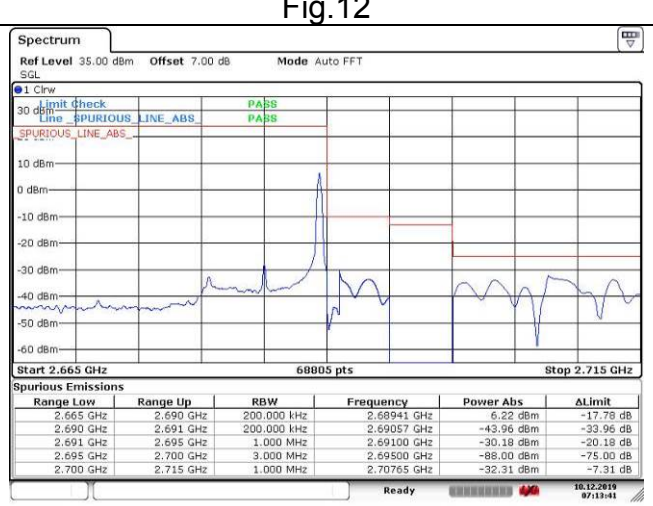
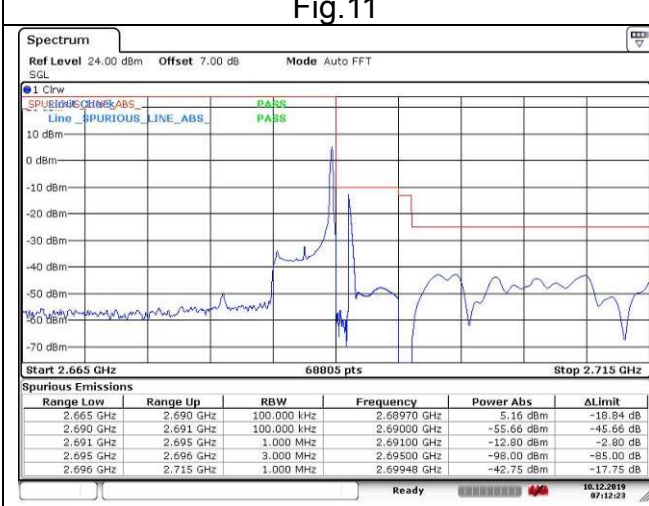
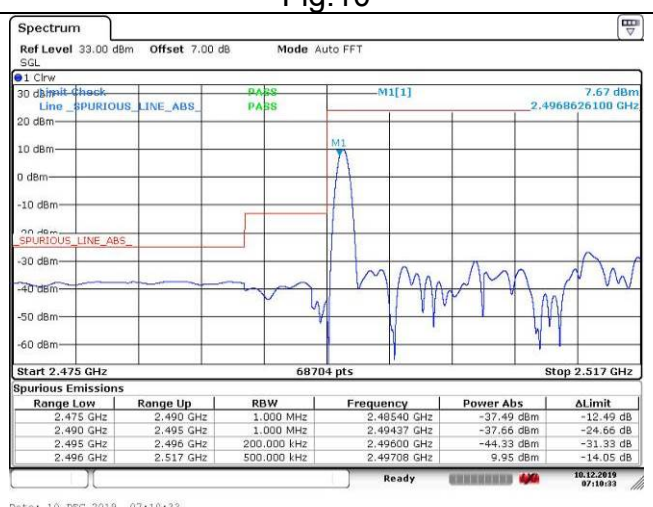
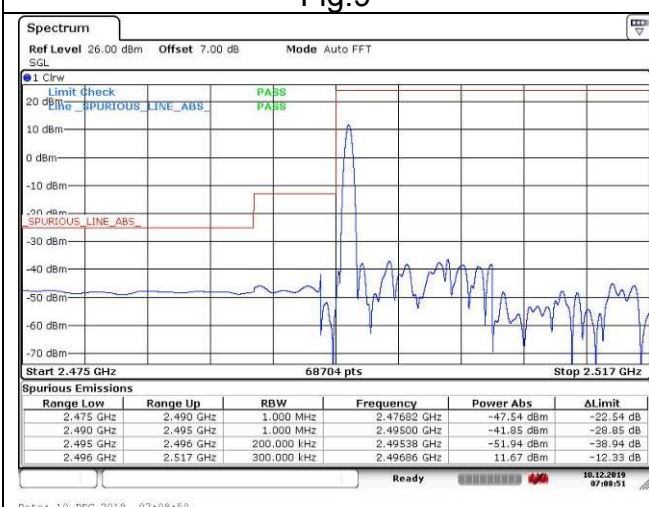
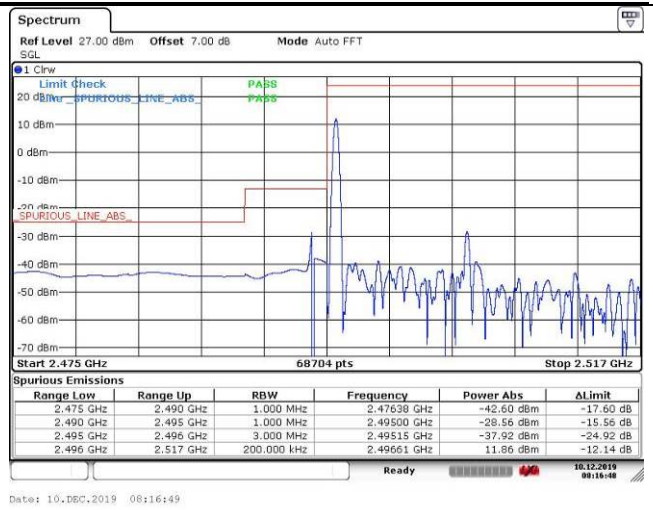
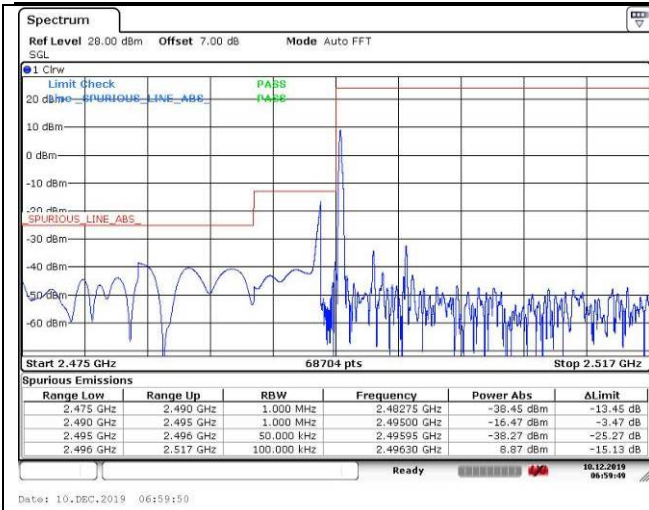


Fig.8



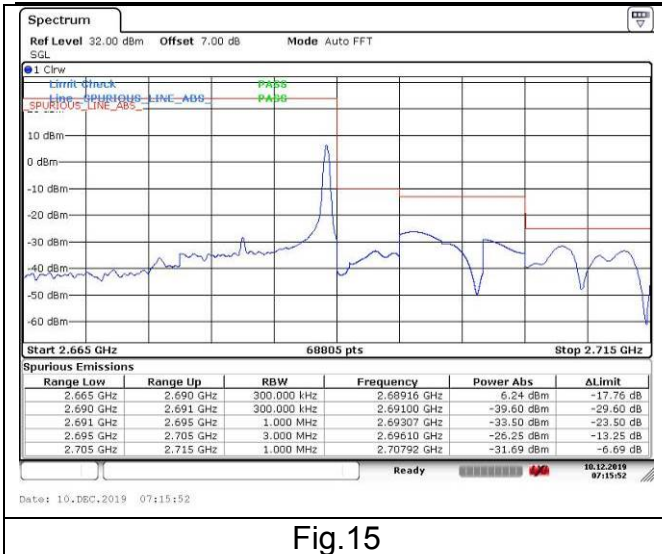


Fig.15

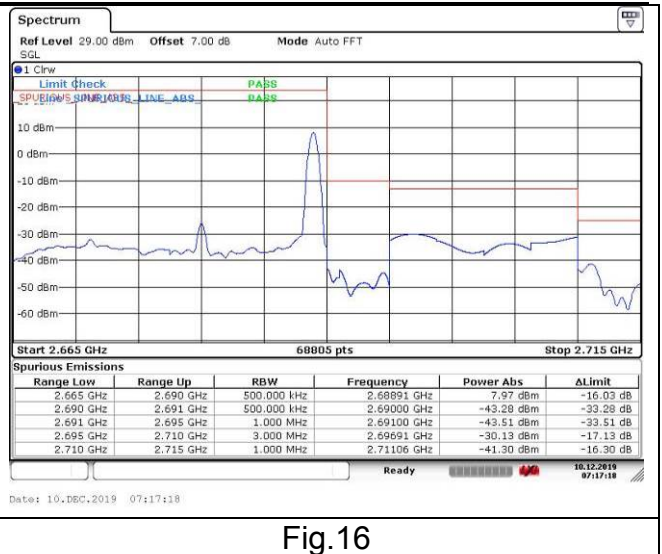


Fig.16

6 Frequency Stability

Test result:

| Temperature(°C) | Voltage | Test Result (ppm) Band41 Low Channel | | | |
|-----------------|---------|--------------------------------------|--------|--------|--------|
| | | 5M | 10M | 15M | 20M |
| -10 | NV | 0.026 | 0.003 | 0.011 | 0.010 |
| 0 | NV | 0.072 | -0.039 | 0.036 | -0.078 |
| +10 | NV | 0.025 | 0.075 | 0.031 | 0.078 |
| +20 | NV | 0.000 | 0.000 | 0.000 | 0.000 |
| +30 | NV | -0.066 | 0.091 | -0.079 | -0.026 |
| +40 | NV | -0.041 | -0.016 | -0.062 | 0.062 |
| +50 | NV | 0.091 | 0.068 | 0.099 | -0.024 |
| +55 | NV | 0.054 | 0.064 | -0.047 | 0.081 |
| +20 | LV | 0.017 | 0.051 | -0.025 | 0.044 |
| +20 | HV | 0.030 | 0.043 | -0.078 | -0.017 |

| Temperature(°C) | Voltage | Test Result (ppm) Ban41 High Channel | | | |
|-----------------|---------|--------------------------------------|--------|--------|--------|
| | | 5M | 10M | 15M | 20M |
| -10 | NV | 0.020 | 0.002 | 0.019 | 0.011 |
| 0 | NV | -0.082 | 0.016 | -0.009 | 0.081 |
| +10 | NV | -0.001 | -0.012 | -0.079 | -0.085 |
| +20 | NV | 0.000 | 0.000 | 0.000 | 0.000 |
| +30 | NV | 0.058 | -0.097 | 0.039 | 0.100 |
| +40 | NV | 0.087 | 0.070 | -0.038 | -0.056 |
| +50 | NV | 0.090 | -0.005 | 0.002 | -0.082 |
| +55 | NV | 0.091 | 0.068 | 0.099 | -0.024 |
| +20 | LV | -0.015 | 0.046 | -0.045 | -0.084 |
| +20 | HV | -0.032 | -0.019 | -0.053 | -0.030 |

APPENDIX B – TEST DATA OF RADIATED EMISSION

The measurement results are obtained as described below:
Peak EIRP = P_{mea} + P_{ca} Cable loss+ G_a Antenna Gain

Sample calculation: (22.32 dBm) = (17.52 dBm) + (-3.8 dB) + (8.6 dB), the corresponding frequency is 1851.5MHz.

LTE band 2
Test result:

| band | Modulation | BW (MHz) | Channel | RB/ RB offset | EIRP/ERP (dBm) | EIRP/ERP (W) |
|-------|------------|----------|---------|------------------|----------------|--------------|
| Band2 | QPSK | 1.4 | 18607 | 1#0 | 22.52 | 0.18 |
| Band2 | QPSK | 1.4 | 18900 | 1#0 | 23.07 | 0.20 |
| Band2 | QPSK | 1.4 | 19193 | 1#0 | 23.15 | 0.21 |
| Band2 | 16QAM | 1.4 | 18607 | 1#0 | 21.84 | 0.15 |
| Band2 | 16QAM | 1.4 | 18900 | 1#0 | 21.57 | 0.14 |
| Band2 | 16QAM | 1.4 | 19193 | 1#0 | 22.95 | 0.20 |
| Band2 | QPSK | 3 | 18615 | 1#0 | 22.95 | 0.20 |
| Band2 | QPSK | 3 | 18900 | 1#0 | 22.88 | 0.19 |
| Band2 | QPSK | 3 | 19185 | 1#0 | 23.37 | 0.22 |
| Band2 | 16QAM | 3 | 18615 | 1#0 | 22.03 | 0.16 |
| Band2 | 16QAM | 3 | 18900 | 1#0 | 21.01 | 0.13 |
| Band2 | 16QAM | 3 | 19185 | 1#0 | 22.28 | 0.17 |
| Band2 | QPSK | 5 | 18625 | 1#0 | 23.45 | 0.22 |
| Band2 | QPSK | 5 | 18900 | 1#0 | 22.85 | 0.19 |
| Band2 | QPSK | 5 | 19175 | 1#0 | 23.84 | 0.24 |
| Band2 | 16QAM | 5 | 18625 | 1#0 | 21.79 | 0.15 |
| Band2 | 16QAM | 5 | 18900 | 1#0 | 21.03 | 0.13 |
| Band2 | 16QAM | 5 | 19175 | 1#0 | 22.32 | 0.17 |
| Band2 | QPSK | 10 | 18650 | 1#0 | 23.52 | 0.22 |
| Band2 | QPSK | 10 | 18900 | 1#0 | 23.05 | 0.20 |
| Band2 | QPSK | 10 | 19150 | 1#0 | 23.26 | 0.21 |
| Band2 | 16QAM | 10 | 18650 | 1#0 | 21.43 | 0.14 |
| Band2 | 16QAM | 10 | 18900 | 1#0 | 21.94 | 0.16 |
| Band2 | 16QAM | 10 | 19150 | 1#0 | 21.22 | 0.13 |
| Band2 | QPSK | 15 | 18675 | 1#0 | 23.37 | 0.22 |
| Band2 | QPSK | 15 | 18900 | 1#0 | 22.89 | 0.19 |
| Band2 | QPSK | 15 | 19125 | 1#0 | 23.61 | 0.23 |
| Band2 | 16QAM | 15 | 18675 | 1#0 | 21.65 | 0.15 |
| Band2 | 16QAM | 15 | 18900 | 1#0 | 21.78 | 0.15 |
| Band2 | 16QAM | 15 | 19125 | 1#0 | 21.70 | 0.15 |
| Band2 | QPSK | 20 | 18700 | 1#0 | 23.85 | 0.24 |
| Band2 | QPSK | 20 | 18900 | 1#0 | 22.84 | 0.19 |
| Band2 | QPSK | 20 | 19100 | 1#0 | 23.94 | 0.25 |
| Band2 | 16QAM | 20 | 18700 | 1#0 | 20.92 | 0.12 |
| Band2 | 16QAM | 20 | 18900 | 1#0 | 20.87 | 0.12 |

| | | | | | | |
|-------|-------|----|-------|-----|-------|------|
| Band2 | 16QAM | 20 | 19100 | 1#0 | 20.99 | 0.13 |
|-------|-------|----|-------|-----|-------|------|

| Frequency (MHz) | Peak EIRP(dBm) | Pca Cable loss | Ga Antenna Gain (dB) | Pmea (dBm) | Polarization |
|-----------------|----------------|----------------|----------------------|------------|--------------|
| 1851.5 | 22.32 | -3.8 | 8.6 | 17.52 | Vertical |
| 1880.0 | 21.92 | -3.8 | 8.6 | 17.12 | Vertical |
| 1907.5 | 21.88 | -3.8 | 8.6 | 17.08 | Vertical |

Test result:
Channel 18700

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 2455.50 | -49.39 | -13 | Vertical |
| 2774.38 | -47.80 | -13 | Vertical |
| 3728.09 | -40.76 | -13 | Vertical |
| 6677.12 | -41.32 | -13 | Vertical |
| 9961.60 | -37.91 | -13 | Horizontal |
| 17822.97 | -33.81 | -13 | Vertical |

Channel 18900

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 2457.00 | -48.74 | -13 | Vertical |
| 2779.93 | -47.42 | -13 | Horizontal |
| 3727.17 | -40.57 | -13 | Vertical |
| 6678.87 | -40.96 | -13 | Vertical |
| 9960.54 | -38.02 | -13 | Vertical |
| 17821.48 | -34.56 | -13 | Vertical |

Channel 19100

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 2457.81 | -48.73 | -13 | Vertical |
| 2773.89 | -47.99 | -13 | Vertical |
| 3729.63 | -40.46 | -13 | Horizontal |
| 6673.48 | -39.41 | -13 | Vertical |
| 9964.56 | -36.72 | -13 | Vertical |
| 17821.68 | -33.94 | -13 | Vertical |

LTE band 5
Test result:

| band | Modulation | BW (MHz) | Channel | RB/ RB offset | EIRP/ERP (dBm) | EIRP/ERP (W) |
|-------|------------|----------|---------|---------------|----------------|--------------|
| Band5 | QPSK | 1.4 | 20407 | 1#0 | 23.70 | 0.23 |
| Band5 | QPSK | 1.4 | 20525 | 1#0 | 24.71 | 0.30 |
| Band5 | QPSK | 1.4 | 20643 | 1#0 | 23.70 | 0.23 |
| Band5 | 16QAM | 1.4 | 20407 | 1#0 | 22.34 | 0.17 |
| Band5 | 16QAM | 1.4 | 20525 | 1#0 | 22.24 | 0.17 |
| Band5 | 16QAM | 1.4 | 20643 | 1#0 | 22.66 | 0.18 |
| Band5 | QPSK | 3 | 20415 | 1#0 | 24.36 | 0.27 |
| Band5 | QPSK | 3 | 20525 | 1#0 | 23.95 | 0.25 |
| Band5 | QPSK | 3 | 20635 | 1#0 | 22.53 | 0.18 |
| Band5 | 16QAM | 3 | 20415 | 1#0 | 22.56 | 0.18 |
| Band5 | 16QAM | 3 | 20525 | 1#0 | 22.24 | 0.17 |
| Band5 | 16QAM | 3 | 20635 | 1#0 | 22.09 | 0.16 |
| Band5 | QPSK | 5 | 20425 | 1#0 | 24.05 | 0.25 |
| Band5 | QPSK | 5 | 20525 | 1#0 | 23.41 | 0.22 |
| Band5 | QPSK | 5 | 20625 | 1#0 | 22.33 | 0.17 |
| Band5 | 16QAM | 5 | 20425 | 1#0 | 22.85 | 0.19 |
| Band5 | 16QAM | 5 | 20525 | 1#0 | 22.82 | 0.19 |
| Band5 | 16QAM | 5 | 20625 | 1#0 | 22.46 | 0.18 |
| Band5 | QPSK | 10 | 20450 | 1#0 | 23.71 | 0.24 |
| Band5 | QPSK | 10 | 20525 | 1#0 | 23.22 | 0.21 |
| Band5 | QPSK | 10 | 20600 | 1#0 | 24.61 | 0.29 |
| Band5 | 16QAM | 10 | 20450 | 1#0 | 23.07 | 0.20 |
| Band5 | 16QAM | 10 | 20525 | 1#0 | 23.05 | 0.20 |
| Band5 | 16QAM | 10 | 20600 | 1#0 | 22.41 | 0.17 |

| Frequency (MHz) | Peak ERP (dBm) | PcaCable loss(dB) | Ga Antenna Gain (dB) | Correction (dB) | Pmea (dBm) | Polarization |
|-----------------|----------------|-------------------|----------------------|-----------------|------------|--------------|
| 824.0 | 22.54 | -3.4 | 8.3 | 2.15 | 17.74 | Vertical |
| 836.5 | 23.11 | -3.4 | 8.3 | 2.15 | 18.31 | Vertical |
| 848.9 | 23.22 | -3.4 | 8.3 | 2.15 | 18.42 | Vertical |

Test result:
Channel 20450

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 1646.89 | -53.72 | -13 | Vertical |
| 1665.21 | -50.65 | -13 | Horizontal |
| 2538.34 | -44.40 | -13 | Vertical |
| 2575.80 | -43.40 | -13 | Vertical |
| 8961.70 | -39.41 | -13 | Vertical |
| 9967.35 | -35.92 | -13 | Vertical |

Channel 20525

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 1644.88 | -52.08 | -13 | Vertical |
| 1664.37 | -51.10 | -13 | Vertical |
| 2533.28 | -44.04 | -13 | Vertical |
| 2575.16 | -43.28 | -13 | Vertical |
| 8965.40 | -39.78 | -13 | Vertical |
| 9971.71 | -36.87 | -13 | Horizontal |

Channel 20600

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 1646.78 | -52.09 | -13 | Horizontal |
| 1663.32 | -51.58 | -13 | Vertical |
| 2536.43 | -44.05 | -13 | Vertical |
| 2574.76 | -43.48 | -13 | Vertical |
| 8960.93 | -39.86 | -13 | Vertical |
| 9970.30 | -35.90 | -13 | Vertical |

LTE band 7
Test result:

| band | Modulation | BW (MHz) | Channel | RB/ RB offset | EIRP/ERP (dBm) | EIRP/ERP (W) |
|-------|------------|----------|---------|---------------|----------------|--------------|
| Band7 | QPSK | 5 | 20775 | 1#0 | 23.91 | 0.25 |
| Band7 | QPSK | 5 | 21100 | 1#0 | 23.54 | 0.23 |
| Band7 | QPSK | 5 | 21425 | 1#0 | 23.26 | 0.21 |
| Band7 | 16QAM | 5 | 20775 | 1#0 | 23.63 | 0.23 |
| Band7 | 16QAM | 5 | 21100 | 1#0 | 23.86 | 0.24 |
| Band7 | 16QAM | 5 | 21425 | 1#0 | 23.72 | 0.24 |
| Band7 | QPSK | 10 | 20800 | 1#0 | 24.78 | 0.30 |
| Band7 | QPSK | 10 | 21100 | 1#0 | 23.89 | 0.24 |
| Band7 | QPSK | 10 | 21400 | 1#0 | 24.59 | 0.29 |
| Band7 | 16QAM | 10 | 20800 | 1#0 | 23.24 | 0.21 |
| Band7 | 16QAM | 10 | 21100 | 1#0 | 23.95 | 0.25 |
| Band7 | 16QAM | 10 | 21400 | 1#0 | 24.15 | 0.26 |
| Band7 | QPSK | 15 | 20825 | 1#0 | 23.99 | 0.25 |
| Band7 | QPSK | 15 | 21100 | 1#0 | 24.07 | 0.26 |
| Band7 | QPSK | 15 | 21375 | 1#0 | 23.83 | 0.24 |
| Band7 | 16QAM | 15 | 20825 | 1#0 | 23.61 | 0.23 |
| Band7 | 16QAM | 15 | 21100 | 1#0 | 23.52 | 0.22 |
| Band7 | 16QAM | 15 | 21375 | 1#0 | 23.49 | 0.22 |
| Band7 | QPSK | 20 | 20850 | 1#0 | 23.97 | 0.25 |
| Band7 | QPSK | 20 | 21100 | 1#0 | 23.97 | 0.25 |
| Band7 | QPSK | 20 | 21350 | 1#0 | 22.84 | 0.19 |
| Band7 | 16QAM | 20 | 20850 | 1#0 | 24.07 | 0.26 |
| Band7 | 16QAM | 20 | 21100 | 1#0 | 24.06 | 0.25 |
| Band7 | 16QAM | 20 | 21350 | 1#0 | 23.39 | 0.22 |

| Frequency (MHz) | Peak EIRP(dBm) | Pca Cable loss | Ga Antenna Gain (dB) | Pmea (dBm) | Polarization |
|-----------------|----------------|----------------|----------------------|------------|--------------|
| 2502.5 | 22.54 | -2.6 | 7.5 | 17.64 | Vertical |
| 2535 | 21.69 | -2.6 | 7.5 | 16.79 | Vertical |
| 2560 | 21.35 | -2.6 | 7.5 | 16.45 | Vertical |

Test result:
Channel 20850

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 2459.36 | -48.95 | -25 | Vertical |
| 2774.71 | -48.48 | -25 | Vertical |
| 3728.35 | -40.47 | -25 | Vertical |
| 6679.40 | -40.02 | -25 | Vertical |
| 9957.70 | -37.36 | -25 | Horizontal |
| 17821.30 | -33.94 | -25 | Vertical |

Channel 21100

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 2458.13 | -49.66 | -25 | Vertical |
| 2776.89 | -48.22 | -25 | Horizontal |
| 3729.01 | -40.80 | -25 | Vertical |
| 6678.57 | -39.66 | -25 | Vertical |
| 9959.31 | -38.12 | -25 | Vertical |
| 17823.35 | -34.47 | -25 | Vertical |

Channel 21350

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 2459.84 | -49.05 | -25 | Vertical |
| 2780.14 | -47.10 | -25 | Vertical |
| 3731.18 | -40.06 | -25 | Vertical |
| 6674.79 | -39.59 | -25 | Horizontal |
| 9959.57 | -37.48 | -25 | Vertical |
| 17821.63 | -34.51 | -25 | Vertical |

LTE band 41
Test result:

| band | Modulation | BW (MHz) | Channel | RB/ RB offset | EIRP/ERP (dBm) | EIRP/ERP (W) |
|--------|------------|----------|---------|---------------|----------------|--------------|
| Band41 | QPSK | 5 | 39675 | 1#0 | 21.39 | 0.14 |
| Band41 | QPSK | 5 | 40620 | 1#0 | 21.81 | 0.15 |
| Band41 | QPSK | 5 | 41565 | 1#0 | 22.85 | 0.19 |
| Band41 | 16QAM | 5 | 39675 | 1#0 | 20.56 | 0.11 |
| Band41 | 16QAM | 5 | 40620 | 1#0 | 20.69 | 0.12 |
| Band41 | 16QAM | 5 | 41565 | 1#0 | 21.01 | 0.13 |
| Band41 | QPSK | 10 | 39700 | 1#0 | 22.31 | 0.17 |
| Band41 | QPSK | 10 | 40620 | 1#0 | 23.37 | 0.22 |
| Band41 | QPSK | 10 | 41540 | 1#0 | 24.06 | 0.25 |
| Band41 | 16QAM | 10 | 39700 | 1#0 | 20.75 | 0.12 |
| Band41 | 16QAM | 10 | 40620 | 1#0 | 21.04 | 0.13 |
| Band41 | 16QAM | 10 | 41540 | 1#0 | 20.55 | 0.11 |
| Band41 | QPSK | 15 | 39725 | 1#0 | 23.07 | 0.20 |
| Band41 | QPSK | 15 | 40620 | 1#0 | 23.31 | 0.21 |
| Band41 | QPSK | 15 | 41515 | 1#0 | 24.14 | 0.26 |
| Band41 | 16QAM | 15 | 39725 | 1#0 | 20.73 | 0.12 |
| Band41 | 16QAM | 15 | 40620 | 1#0 | 21.16 | 0.13 |
| Band41 | 16QAM | 15 | 41515 | 1#0 | 21.05 | 0.13 |
| Band41 | QPSK | 20 | 39750 | 1#0 | 22.70 | 0.19 |
| Band41 | QPSK | 20 | 40620 | 1#0 | 23.57 | 0.23 |
| Band41 | QPSK | 20 | 41490 | 1#0 | 23.60 | 0.23 |
| Band41 | 16QAM | 20 | 39750 | 1#0 | 20.89 | 0.12 |
| Band41 | 16QAM | 20 | 40620 | 1#0 | 20.76 | 0.12 |
| Band41 | 16QAM | 20 | 41490 | 1#0 | 20.86 | 0.12 |

| Frequency (MHz) | Peak EIRP(dBm) | Pca Cable loss | Ga Antenna Gain (dB) | Pmea (dBm) | Polarization |
|-----------------|----------------|----------------|----------------------|------------|--------------|
| 2506 | 23.57 | -2.6 | 7.5 | 15.84 | Vertical |
| 2593 | 23.60 | -2.6 | 7.5 | 15.90 | Vertical |
| 2680 | 20.89 | -2.6 | 7.5 | 16.25 | Vertical |

Test result:
Channel 39750

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 2458.38 | -48.29 | -25 | Vertical |
| 2779.55 | -48.41 | -25 | Horizontal |
| 3731.29 | -39.53 | -25 | |
| 6675.53 | -40.21 | -25 | Vertical |
| 9964.42 | -37.86 | -25 | Vertical |
| 17823.38 | -33.64 | -25 | Vertical |

Channel 40620

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 2459.03 | -49.59 | -25 | Vertical |
| 2778.11 | -47.80 | -25 | Vertical |
| 3725.22 | -40.94 | -25 | Vertical |
| 6679.10 | -40.51 | -25 | Vertical |
| 9961.24 | -37.56 | -25 | Horizontal |
| 17824.06 | -34.22 | -25 | Vertical |

Channel 41490

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 2458.56 | -49.60 | -25 | Vertical |
| 2776.08 | -47.52 | -25 | Vertical |
| 3730.10 | -39.89 | -25 | Vertical |
| 6676.29 | -39.81 | -25 | Vertical |
| 9963.06 | -37.76 | -25 | Vertical |
| 17821.02 | -35.31 | -25 | Horizontal |

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