

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 66 1 RF Power Output

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|-----|---------|-----------|-----------------------|
| QPSK | 1710.7 | 131979 | 1.4 | 1 | 0 | 24.48 |
| | | | | 1 | 5 | 24.38 |
| | | | | 3 | 2 | 22.80 |
| | | | | 6 | 0 | 23.00 |
| | 1745 | 132322 | | 1 | 0 | 24.44 |
| | | | | 1 | 5 | 24.17 |
| | | | | 3 | 2 | 22.83 |
| | | | | 6 | 0 | 24.98 |
| | 1779.3 | 132665 | | 1 | 0 | 24.33 |
| | | | | 1 | 5 | 24.29 |
| | | | | 3 | 2 | 22.82 |
| | | | | 6 | 0 | 22.77 |
| 16QAM | 1710.7 | 131979 | 1.4 | 1 | 0 | 23.44 |
| | | | | 1 | 5 | 23.49 |
| | | | | 3 | 2 | 21.88 |
| | | | | 6 | 0 | 22.02 |
| | 1745 | 132322 | | 1 | 0 | 23.67 |
| | | | | 1 | 5 | 23.82 |
| | | | | 3 | 2 | 21.81 |
| | | | | 6 | 0 | 22.33 |
| | 1779.3 | 132665 | | 1 | 0 | 23.29 |
| | | | | 1 | 5 | 23.51 |
| | | | | 3 | 2 | 22.04 |
| | | | | 6 | 0 | 21.88 |
| 64QAM | 1710.7 | 131979 | 1.4 | 1 | 0 | 23.20 |
| | | | | 1 | 5 | 22.87 |
| | | | | 3 | 2 | 22.23 |
| | | | | 6 | 0 | 22.01 |
| | 1745 | 132322 | | 1 | 0 | 23.60 |
| | | | | 1 | 5 | 23.20 |
| | | | | 3 | 2 | 22.00 |
| | | | | 6 | 0 | 22.17 |
| | 1779.3 | 132665 | | 1 | 0 | 23.11 |
| | | | | 1 | 5 | 23.04 |
| | | | | 3 | 2 | 21.96 |
| | | | | 6 | 0 | 21.93 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 1711.5 | 131987 | 3 | 1 | 0 | 24.25 |
| | | | | 1 | 14 | 24.24 |
| | | | | 8 | 4 | 23.25 |
| | | | | 15 | 0 | 23.01 |
| | 1745 | 132322 | | 1 | 0 | 24.37 |
| | | | | 1 | 14 | 24.51 |
| | | | | 8 | 4 | 22.91 |
| | | | | 15 | 0 | 24.97 |
| | 1778.5 | 132657 | | 1 | 0 | 24.32 |
| | | | | 1 | 14 | 24.27 |
| | | | | 8 | 4 | 23.07 |
| | | | | 15 | 0 | 23.23 |
| 16QAM | 1711.5 | 131987 | 3 | 1 | 0 | 23.27 |
| | | | | 1 | 14 | 23.71 |
| | | | | 8 | 4 | 22.00 |
| | | | | 15 | 0 | 21.91 |
| | 1745 | 132322 | | 1 | 0 | 23.49 |
| | | | | 1 | 14 | 23.73 |
| | | | | 8 | 4 | 22.25 |
| | | | | 15 | 0 | 22.31 |
| | 1778.5 | 132657 | | 1 | 0 | 23.28 |
| | | | | 1 | 14 | 23.44 |
| | | | | 8 | 4 | 22.22 |
| | | | | 15 | 0 | 21.96 |
| 64QAM | 1711.5 | 131987 | 3 | 1 | 0 | 22.76 |
| | | | | 1 | 14 | 22.98 |
| | | | | 8 | 4 | 22.15 |
| | | | | 15 | 0 | 22.14 |
| | 1745 | 132322 | | 1 | 0 | 23.36 |
| | | | | 1 | 14 | 23.36 |
| | | | | 8 | 4 | 22.14 |
| | | | | 15 | 0 | 22.23 |
| | 1778.5 | 132657 | | 1 | 0 | 22.93 |
| | | | | 1 | 14 | 22.88 |
| | | | | 8 | 4 | 22.10 |
| | | | | 15 | 0 | 21.86 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 1712.5 | 131997 | 5 | 1 | 0 | 24.22 |
| | | | | 1 | 24 | 24.45 |
| | | | | 12 | 6 | 22.92 |
| | | | | 25 | 0 | 22.90 |
| | 1745 | 132322 | | 1 | 0 | 24.33 |
| | | | | 1 | 24 | 24.18 |
| | | | | 12 | 6 | 23.07 |
| | | | | 25 | 0 | 24.91 |
| | 1777.5 | 132647 | | 1 | 0 | 24.15 |
| | | | | 1 | 24 | 24.21 |
| | | | | 12 | 6 | 22.93 |
| | | | | 25 | 0 | 22.77 |
| 16QAM | 1712.5 | 131997 | 5 | 1 | 0 | 23.50 |
| | | | | 1 | 24 | 23.54 |
| | | | | 12 | 6 | 21.78 |
| | | | | 25 | 0 | 22.15 |
| | 1745 | 132322 | | 1 | 0 | 23.61 |
| | | | | 1 | 24 | 23.84 |
| | | | | 12 | 6 | 21.81 |
| | | | | 25 | 0 | 21.91 |
| | 1777.5 | 132647 | | 1 | 0 | 23.71 |
| | | | | 1 | 24 | 23.64 |
| | | | | 12 | 6 | 21.96 |
| | | | | 25 | 0 | 22.27 |
| 64QAM | 1712.5 | 131997 | 5 | 1 | 0 | 23.00 |
| | | | | 1 | 24 | 23.31 |
| | | | | 12 | 6 | 22.11 |
| | | | | 25 | 0 | 22.16 |
| | 1745 | 132322 | | 1 | 0 | 23.33 |
| | | | | 1 | 24 | 23.17 |
| | | | | 12 | 6 | 21.85 |
| | | | | 25 | 0 | 21.92 |
| | 1777.5 | 132647 | | 1 | 0 | 22.94 |
| | | | | 1 | 24 | 23.33 |
| | | | | 12 | 6 | 21.99 |
| | | | | 25 | 0 | 21.92 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 1715 | 132022 | 10 | 1 | 0 | 24.13 |
| | | | | 1 | 49 | 24.21 |
| | | | | 24 | 12 | 22.89 |
| | | | | 50 | 0 | 22.83 |
| | 1745 | 132322 | | 1 | 0 | 24.31 |
| | | | | 1 | 49 | 24.43 |
| | | | | 24 | 12 | 22.80 |
| | | | | 50 | 0 | 24.99 |
| | 1775 | 132622 | | 1 | 0 | 24.08 |
| | | | | 1 | 49 | 24.37 |
| | | | | 24 | 12 | 23.07 |
| | | | | 50 | 0 | 22.94 |
| 16QAM | 1715 | 132022 | 10 | 1 | 0 | 23.49 |
| | | | | 1 | 49 | 23.71 |
| | | | | 24 | 12 | 22.17 |
| | | | | 50 | 0 | 21.92 |
| | 1745 | 132322 | | 1 | 0 | 23.62 |
| | | | | 1 | 49 | 23.90 |
| | | | | 24 | 12 | 21.92 |
| | | | | 50 | 0 | 22.14 |
| | 1775 | 132622 | | 1 | 0 | 23.56 |
| | | | | 1 | 49 | 23.63 |
| | | | | 24 | 12 | 21.97 |
| | | | | 50 | 0 | 21.99 |
| 64QAM | 1715 | 132022 | 10 | 1 | 0 | 22.95 |
| | | | | 1 | 49 | 23.14 |
| | | | | 24 | 12 | 21.88 |
| | | | | 50 | 0 | 22.20 |
| | 1745 | 132322 | | 1 | 0 | 23.47 |
| | | | | 1 | 49 | 23.60 |
| | | | | 24 | 12 | 22.11 |
| | | | | 50 | 0 | 22.02 |
| | 1775 | 132622 | | 1 | 0 | 23.26 |
| | | | | 1 | 49 | 23.02 |
| | | | | 24 | 12 | 21.94 |
| | | | | 50 | 0 | 21.96 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 1717.5 | 132047 | 15 | 1 | 0 | 24.14 |
| | | | | 1 | 74 | 24.15 |
| | | | | 40 | 18 | 22.80 |
| | | | | 75 | 0 | 23.03 |
| | 1745 | 132322 | | 1 | 0 | 24.06 |
| | | | | 1 | 74 | 24.37 |
| | | | | 40 | 18 | 23.10 |
| | | | | 75 | 0 | 25.16 |
| | 1772.5 | 132597 | | 1 | 0 | 24.09 |
| | | | | 1 | 74 | 24.18 |
| | | | | 40 | 18 | 23.16 |
| | | | | 75 | 0 | 22.84 |
| 16QAM | 1717.5 | 132047 | 15 | 1 | 0 | 23.63 |
| | | | | 1 | 74 | 23.37 |
| | | | | 40 | 18 | 21.95 |
| | | | | 75 | 0 | 22.02 |
| | 1745 | 132322 | | 1 | 0 | 23.57 |
| | | | | 1 | 74 | 23.53 |
| | | | | 40 | 18 | 22.05 |
| | | | | 75 | 0 | 22.28 |
| | 1772.5 | 132597 | | 1 | 0 | 23.30 |
| | | | | 1 | 74 | 23.27 |
| | | | | 40 | 18 | 22.26 |
| | | | | 75 | 0 | 21.91 |
| 64QAM | 1717.5 | 132047 | 15 | 1 | 0 | 22.99 |
| | | | | 1 | 74 | 23.13 |
| | | | | 40 | 18 | 21.85 |
| | | | | 75 | 0 | 22.03 |
| | 1745 | 132322 | | 1 | 0 | 23.59 |
| | | | | 1 | 74 | 23.41 |
| | | | | 40 | 18 | 22.31 |
| | | | | 75 | 0 | 22.26 |
| | 1772.5 | 132597 | | 1 | 0 | 23.26 |
| | | | | 1 | 74 | 23.09 |
| | | | | 40 | 18 | 21.87 |
| | | | | 75 | 0 | 22.10 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 1720 | 132072 | 20 | 1 | 0 | 24.52 |
| | | | | 1 | 99 | 24.52 |
| | | | | 50 | 25 | 23.29 |
| | | | | 100 | 0 | 23.20 |
| | 1745 | 132322 | | 1 | 0 | 24.52 |
| | | | | 1 | 99 | 24.52 |
| | | | | 50 | 25 | 23.16 |
| | | | | 100 | 0 | 25.22 |
| | 1770 | 132572 | | 1 | 0 | 24.51 |
| | | | | 1 | 99 | 24.51 |
| | | | | 50 | 25 | 23.25 |
| | | | | 100 | 0 | 23.24 |
| 16QAM | 1720 | 132072 | 20 | 1 | 0 | 23.74 |
| | | | | 1 | 99 | 23.74 |
| | | | | 50 | 25 | 22.22 |
| | | | | 100 | 0 | 22.27 |
| | 1745 | 132322 | | 1 | 0 | 23.93 |
| | | | | 1 | 99 | 23.93 |
| | | | | 50 | 25 | 22.30 |
| | | | | 100 | 0 | 22.34 |
| | 1770 | 132572 | | 1 | 0 | 23.77 |
| | | | | 1 | 99 | 23.77 |
| | | | | 50 | 25 | 22.29 |
| | | | | 100 | 0 | 22.31 |
| 64QAM | 1720 | 132072 | 20 | 1 | 0 | 23.25 |
| | | | | 1 | 99 | 23.35 |
| | | | | 50 | 25 | 22.31 |
| | | | | 100 | 0 | 22.28 |
| | 1745 | 132322 | | 1 | 0 | 23.63 |
| | | | | 1 | 99 | 23.63 |
| | | | | 50 | 25 | 22.34 |
| | | | | 100 | 0 | 22.29 |
| | 1770 | 132572 | | 1 | 0 | 23.38 |
| | | | | 1 | 99 | 23.38 |
| | | | | 50 | 25 | 22.26 |
| | | | | 100 | 0 | 22.36 |

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 | |
| 66 | 1710.7 | 131979 | 1.4 | 6 | 0 | 1.0799 | Fig.1 | 1.0765 | Fig.2 | 1.0816 | Fig.3 |
| | 1745 | 132322 | | 6 | 0 | 1.0795 | Fig.4 | 1.0797 | Fig.5 | 1.0810 | Fig.6 |
| | 1779.3 | 132665 | | 6 | 0 | 1.0788 | Fig.7 | 1.0811 | Fig.8 | 1.0784 | Fig.9 |
| | 1711.5 | 131987 | 3 | 15 | 0 | 2.6983 | Fig.10 | 2.6908 | Fig.11 | 2.6894 | Fig.12 |
| | 1745 | 132322 | | 15 | 0 | 2.6981 | Fig.13 | 2.6953 | Fig.14 | 2.7072 | Fig.15 |
| | 1778.5 | 132657 | | 15 | 0 | 2.6946 | Fig.16 | 2.6994 | Fig.17 | 2.6933 | Fig.18 |
| | 1712.5 | 131997 | 5 | 25 | 0 | 4.4770 | Fig.19 | 4.4680 | Fig.20 | 4.4670 | Fig.21 |
| | 1745 | 132322 | | 25 | 0 | 4.4793 | Fig.22 | 4.4685 | Fig.23 | 4.4738 | Fig.24 |
| | 1777.5 | 132647 | | 25 | 0 | 4.4808 | Fig.25 | 4.4726 | Fig.26 | 4.4706 | Fig.27 |
| | 1715 | 132022 | 10 | 50 | 0 | 8.9591 | Fig.28 | 8.9418 | Fig.29 | 8.9453 | Fig.30 |
| | 1745 | 132322 | | 50 | 0 | 8.9584 | Fig.31 | 8.9576 | Fig.32 | 8.9242 | Fig.33 |
| | 1775 | 132622 | | 50 | 0 | 8.9448 | Fig.34 | 8.9236 | Fig.35 | 8.9419 | Fig.36 |
| | 1717.5 | 132047 | 15 | 75 | 0 | 13.434 | Fig.37 | 13.384 | Fig.38 | 13.448 | Fig.39 |
| | 1745 | 132322 | | 75 | 0 | 13.397 | Fig.40 | 13.374 | Fig.41 | 13.368 | Fig.42 |
| | 1772.5 | 132597 | | 75 | 0 | 13.377 | Fig.43 | 13.381 | Fig.44 | 13.373 | Fig.45 |
| | 1720 | 132072 | 20 | 100 | 0 | 17.882 | Fig.46 | 17.897 | Fig.47 | 17.861 | Fig.48 |
| 1745 | 132322 | 100 | | 0 | 17.879 | Fig.49 | 17.898 | Fig.50 | 17.874 | Fig.51 | |
| 1770 | 132572 | 100 | | 0 | 17.879 | Fig.52 | 17.883 | Fig.53 | 17.839 | Fig.54 | |

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of -26dB transmitter power (MHz) | | | | | |
|------|-------------------------|---------|----------|---------|-----------|--|--------|--------|--------|--------|--------|
| | | | | | | QPSK | | 16-QAM | | 64-QAM | |
| 66 | 1710.7 | 131979 | 1.4 | 6 | 0 | 1.230 | Fig.1 | 1.238 | Fig.2 | 1.222 | Fig.3 |
| | 1745 | 132322 | | 6 | 0 | 1.221 | Fig.4 | 1.227 | Fig.5 | 1.246 | Fig.6 |
| | 1779.3 | 132665 | | 6 | 0 | 1.263 | Fig.7 | 1.228 | Fig.8 | 1.251 | Fig.9 |
| | 1711.5 | 131987 | 3 | 15 | 0 | 3.002 | Fig.10 | 3.003 | Fig.11 | 2.974 | Fig.12 |
| | 1745 | 132322 | | 15 | 0 | 3.017 | Fig.13 | 3.022 | Fig.14 | 3.005 | Fig.15 |
| | 1778.5 | 132657 | | 15 | 0 | 3.017 | Fig.16 | 3.022 | Fig.17 | 3.008 | Fig.18 |
| | 1712.5 | 131997 | 5 | 25 | 0 | 4.933 | Fig.19 | 4.912 | Fig.20 | 4.856 | Fig.21 |
| | 1745 | 132322 | | 25 | 0 | 5.168 | Fig.22 | 4.976 | Fig.23 | 5.008 | Fig.24 |
| | 1777.5 | 132647 | | 25 | 0 | 5.160 | Fig.25 | 4.992 | Fig.26 | 5.151 | Fig.27 |
| | 1715 | 132022 | 10 | 50 | 0 | 9.791 | Fig.28 | 9.627 | Fig.29 | 9.772 | Fig.30 |
| | 1745 | 132322 | | 50 | 0 | 9.648 | Fig.31 | 9.836 | Fig.32 | 9.771 | Fig.33 |
| | 1775 | 132622 | | 50 | 0 | 9.902 | Fig.34 | 9.701 | Fig.35 | 9.833 | Fig.36 |
| | 1717.5 | 132047 | 15 | 75 | 0 | 14.98 | Fig.37 | 14.59 | Fig.38 | 14.58 | Fig.39 |
| | 1745 | 132322 | | 75 | 0 | 14.61 | Fig.40 | 14.50 | Fig.41 | 14.50 | Fig.42 |
| | 1772.5 | 132597 | | 75 | 0 | 14.37 | Fig.43 | 14.36 | Fig.44 | 14.36 | Fig.45 |
| | 1720 | 132072 | 20 | 100 | 0 | 19.30 | Fig.46 | 19.20 | Fig.47 | 19.33 | Fig.48 |
| 1745 | 132322 | 100 | | 0 | 19.25 | Fig.49 | 19.13 | Fig.50 | 19.08 | Fig.51 | |
| 1770 | 132572 | 100 | | 0 | 19.53 | Fig.52 | 19.36 | Fig.53 | 19.05 | Fig.54 | |

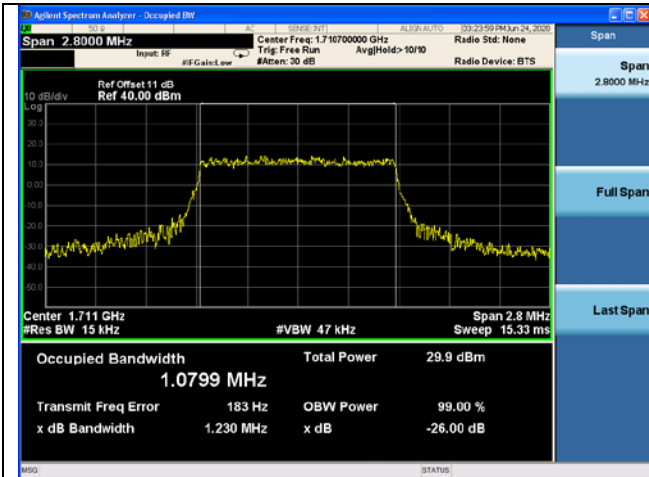


Fig.1

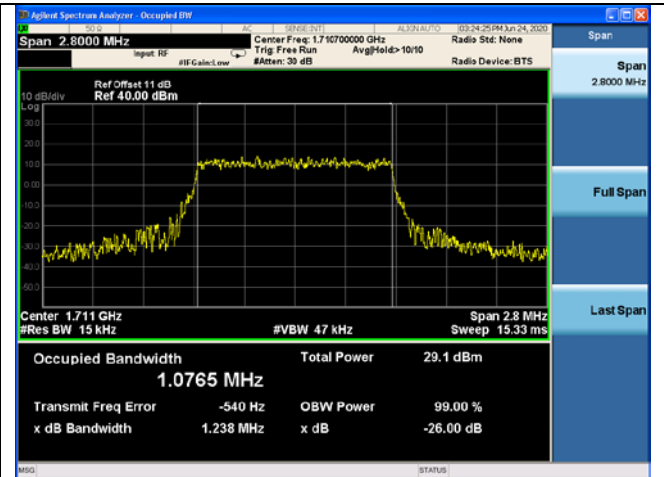


Fig.2

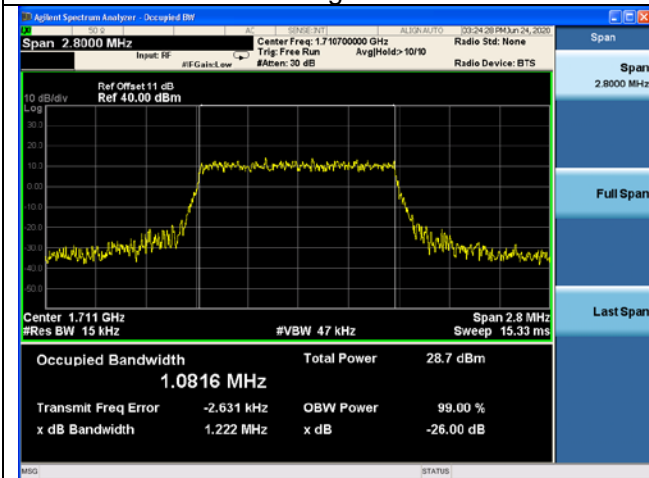


Fig.3

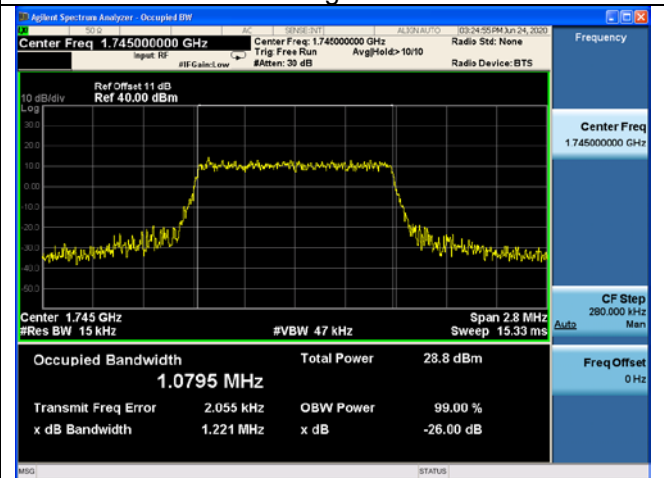


Fig.4

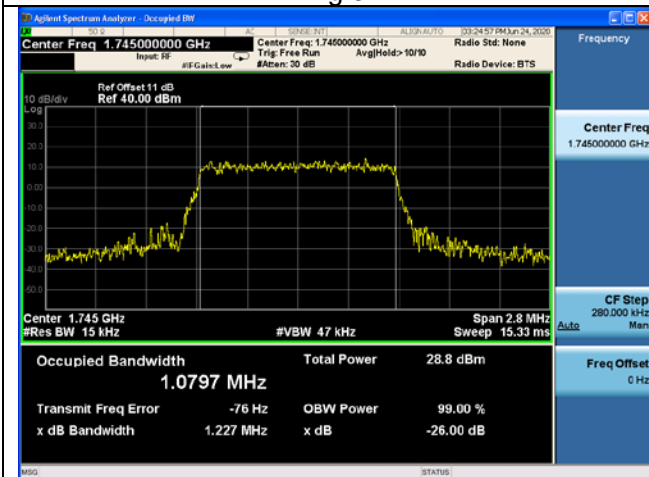


Fig.5

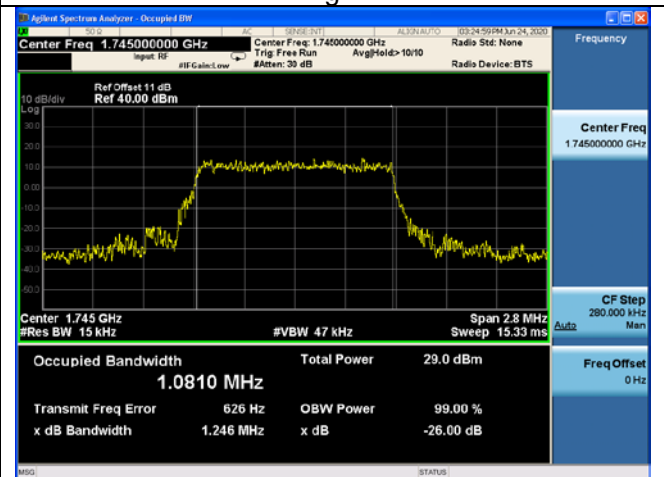


Fig.6

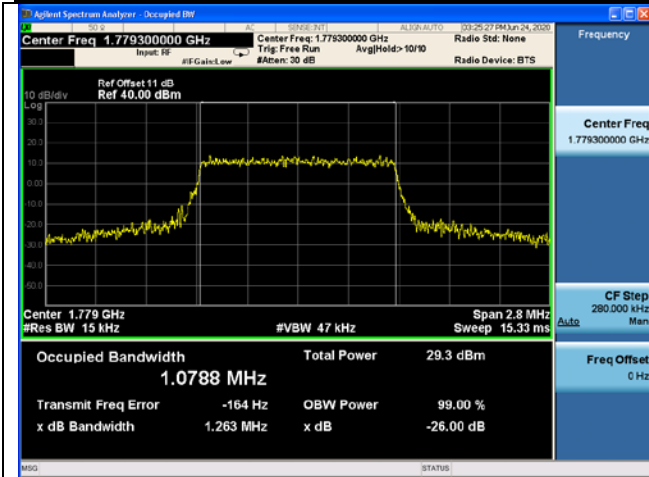


Fig.7

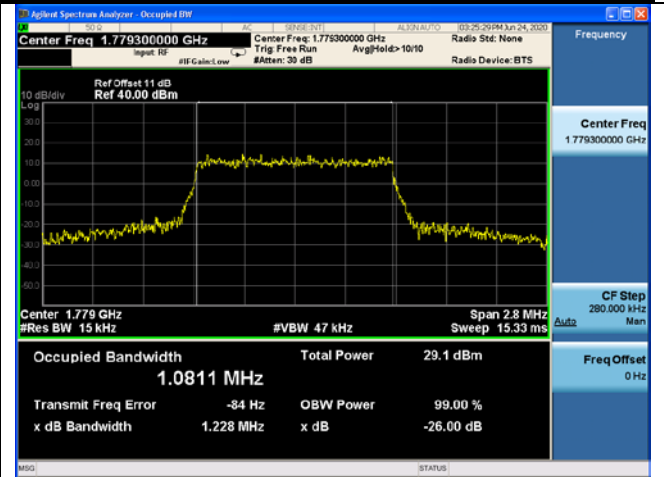


Fig.8

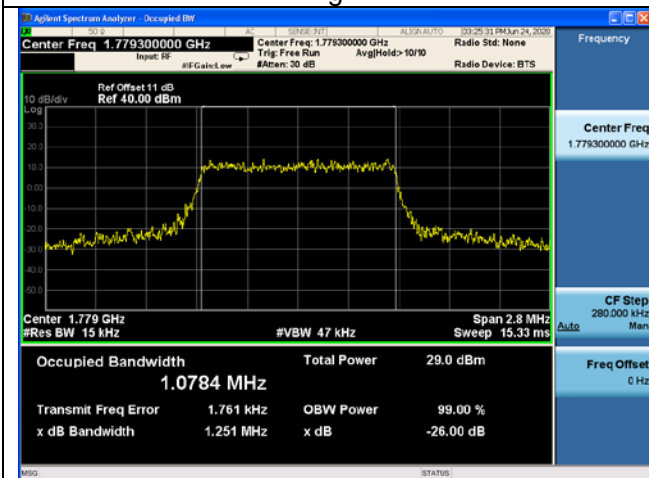


Fig.9

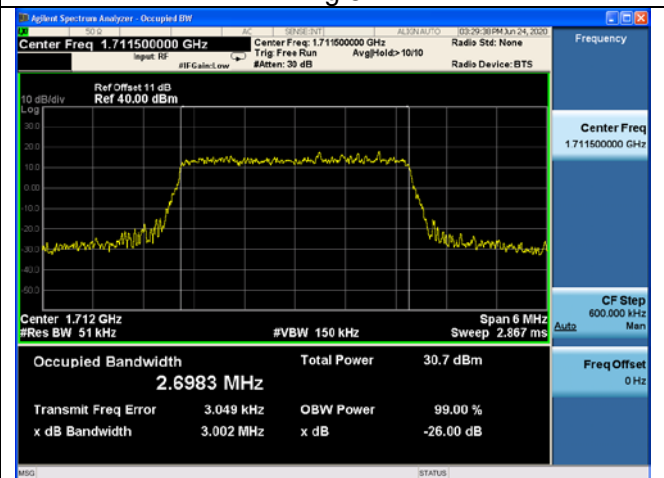


Fig.10

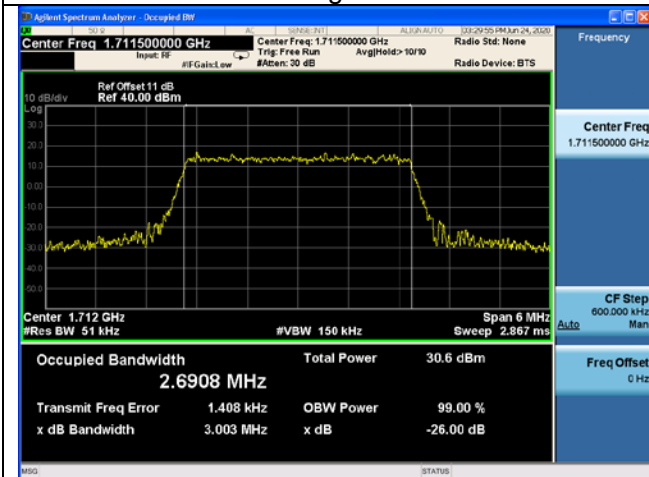


Fig.11

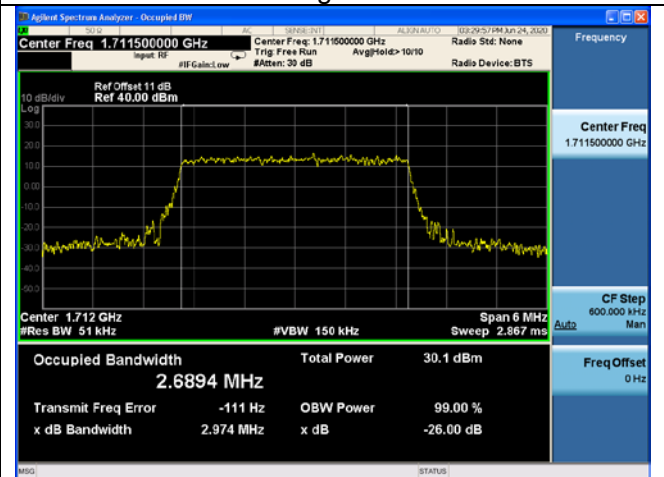


Fig.12

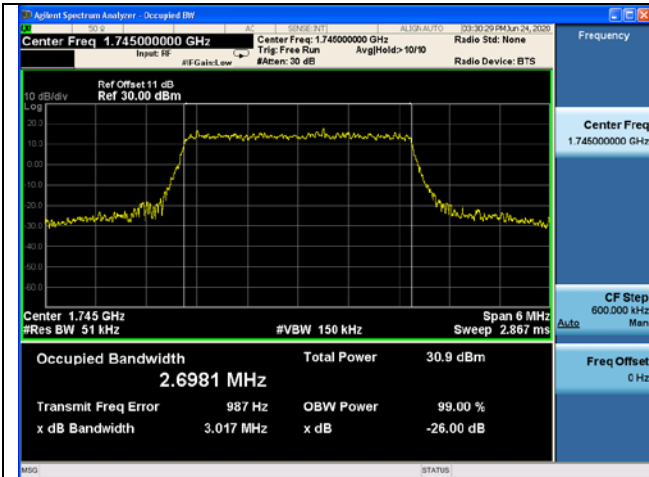


Fig.13

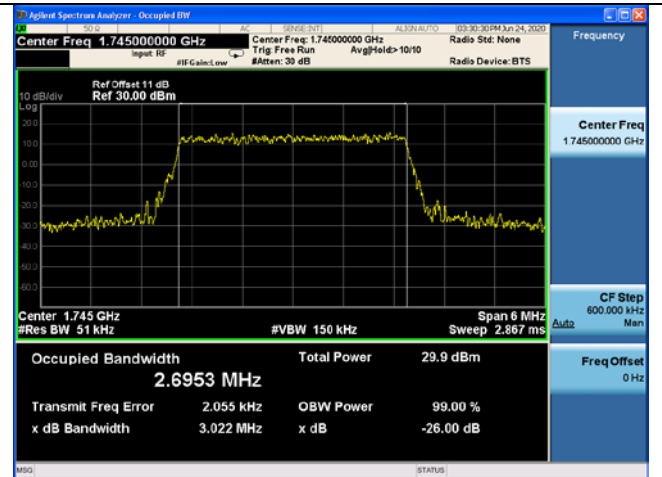


Fig.14

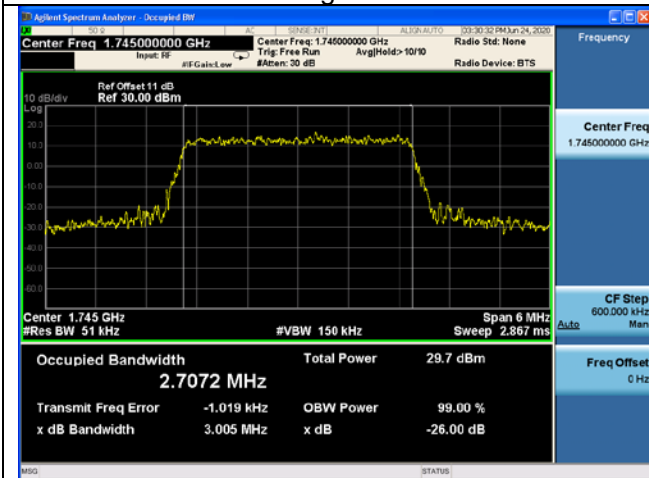


Fig.15

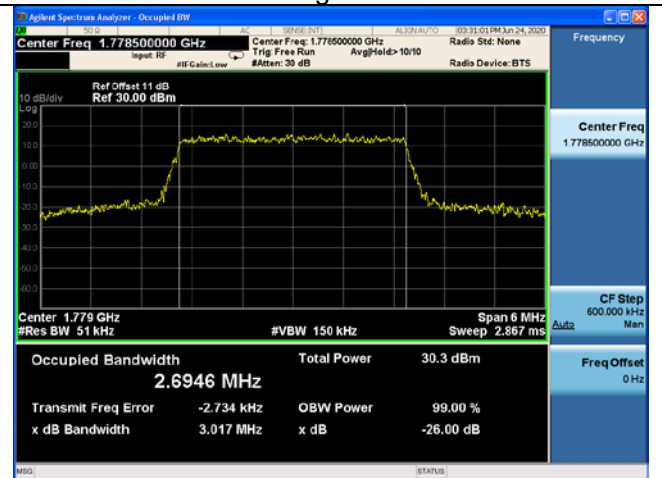


Fig.16

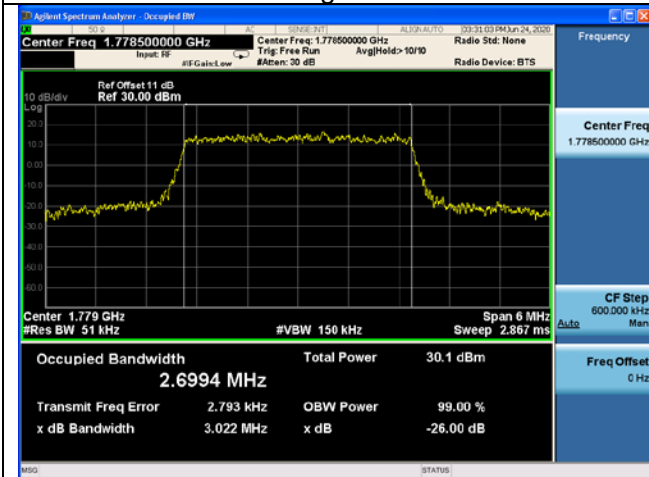


Fig.17

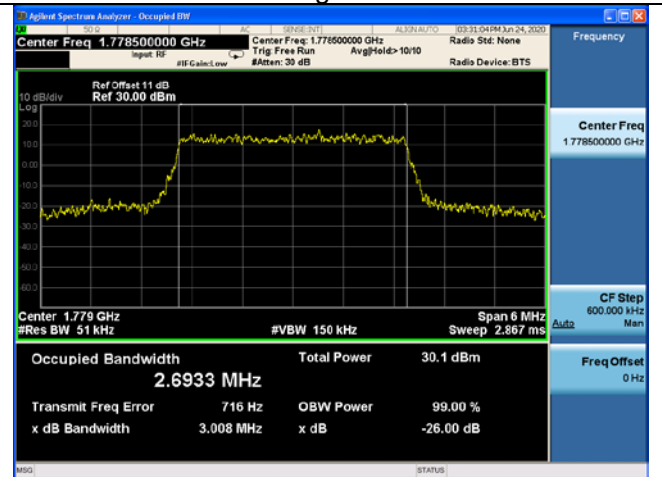


Fig.18

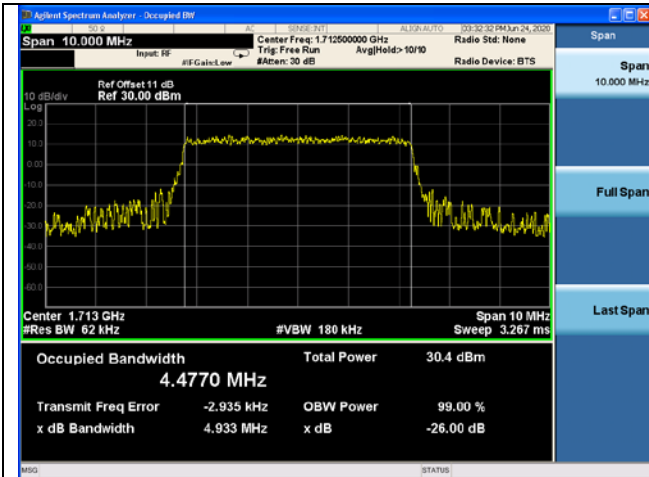


Fig.19

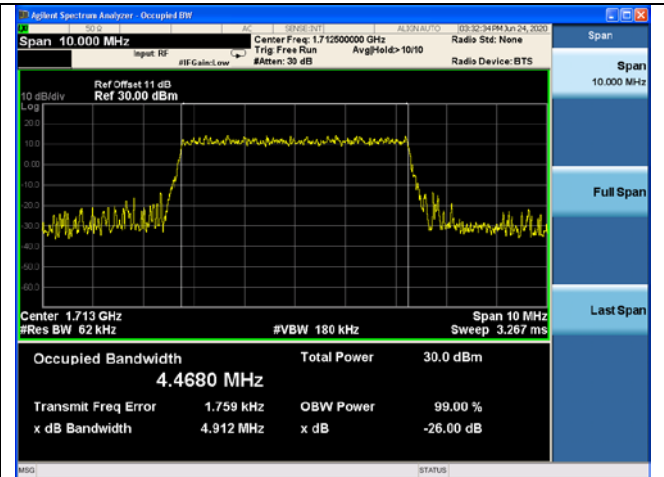


Fig.20

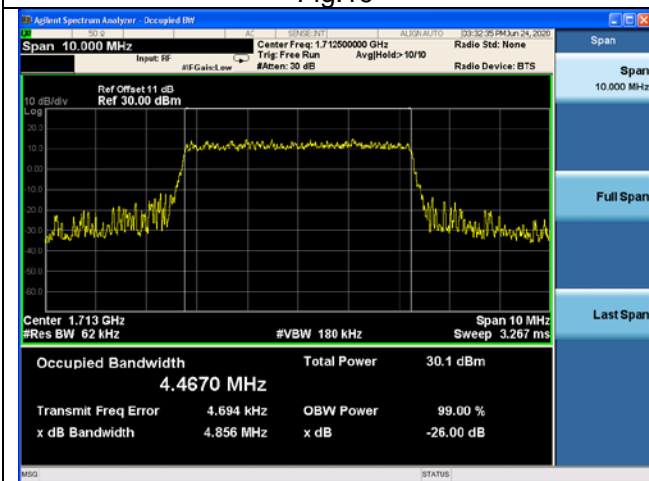


Fig.21

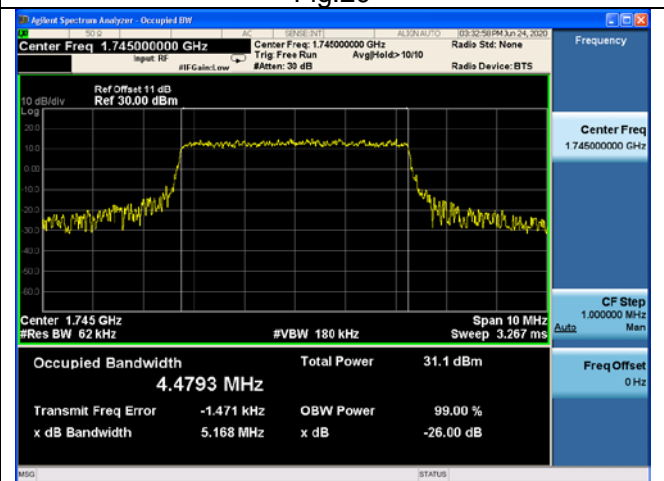


Fig.22

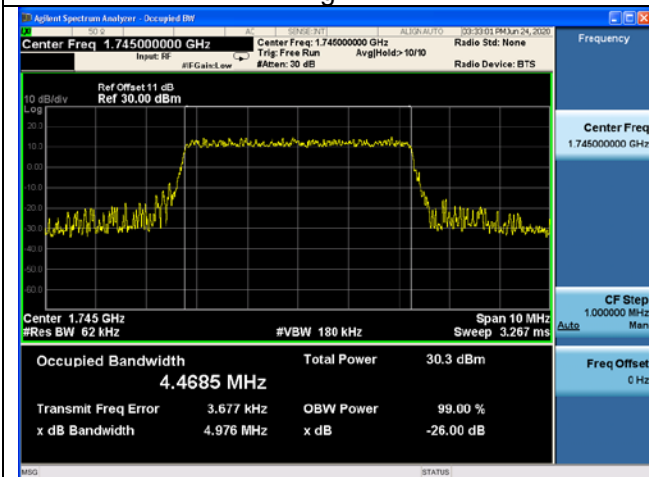


Fig.23

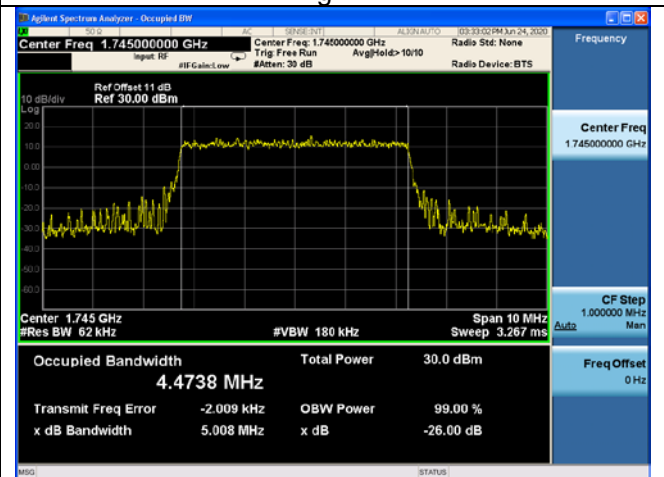


Fig.24

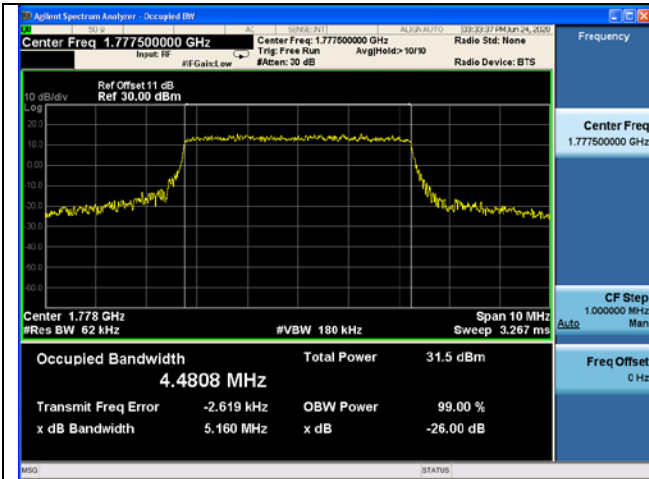


Fig.25

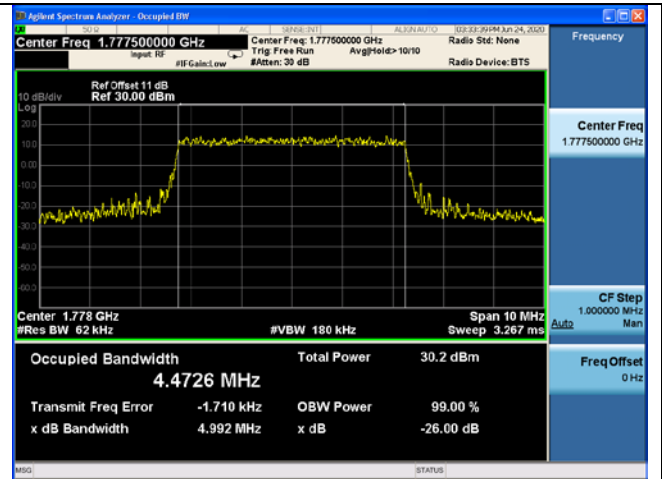


Fig.26

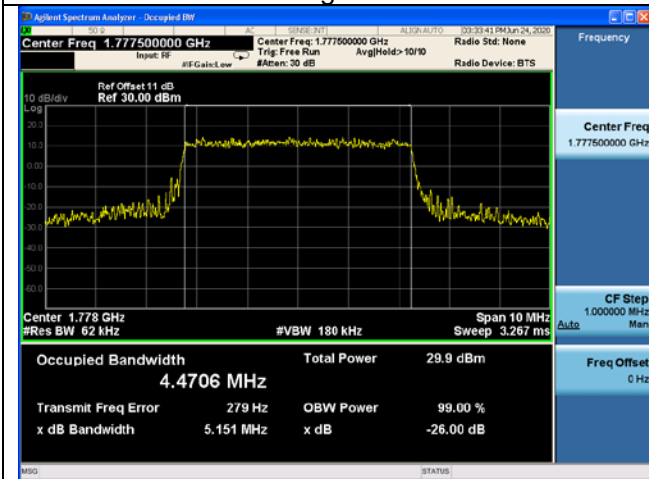


Fig.27

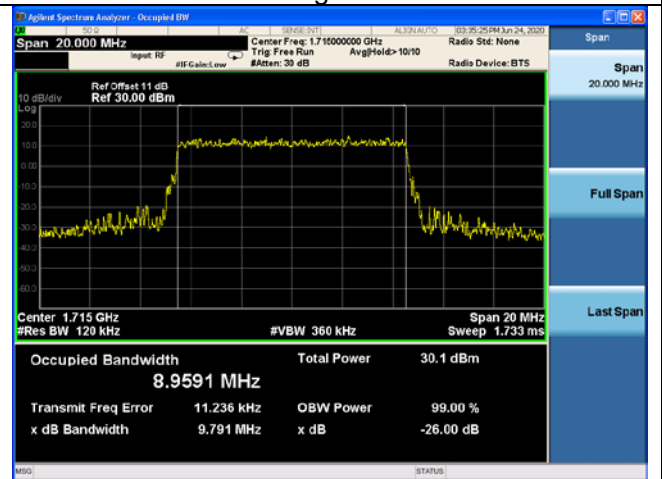


Fig.28

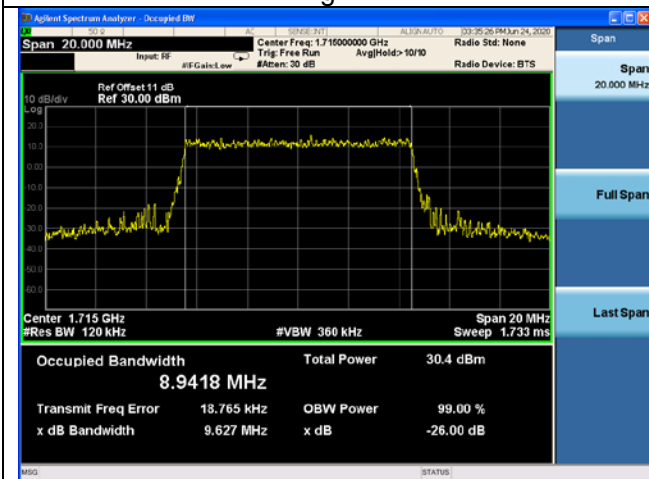


Fig.29

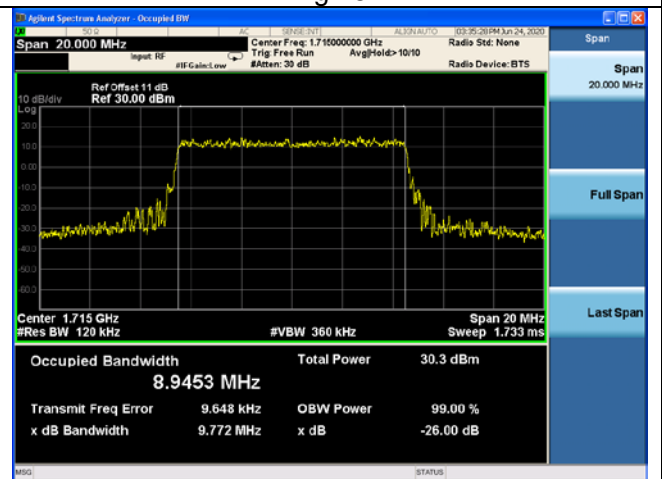


Fig.30

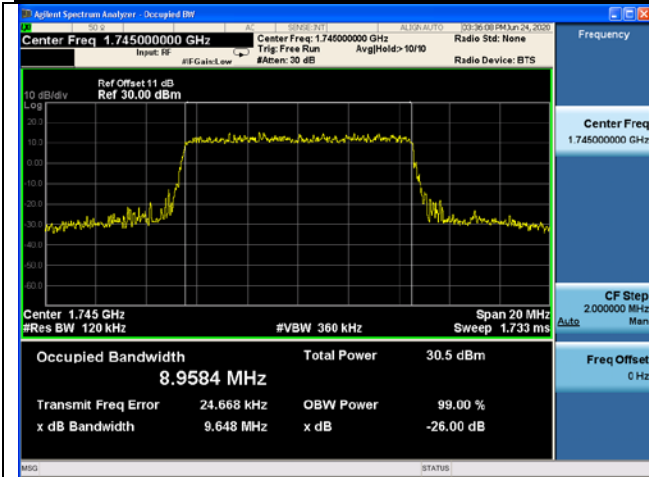


Fig.31

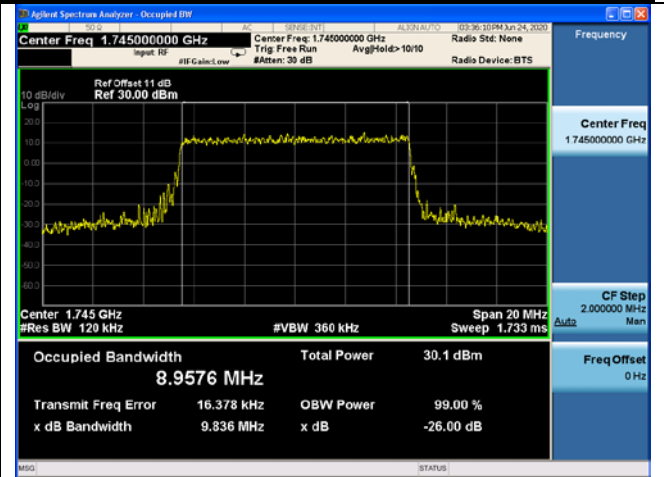


Fig.32

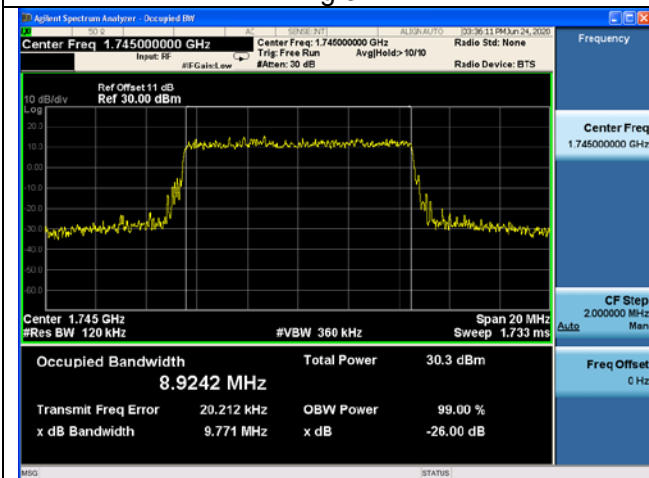


Fig.33

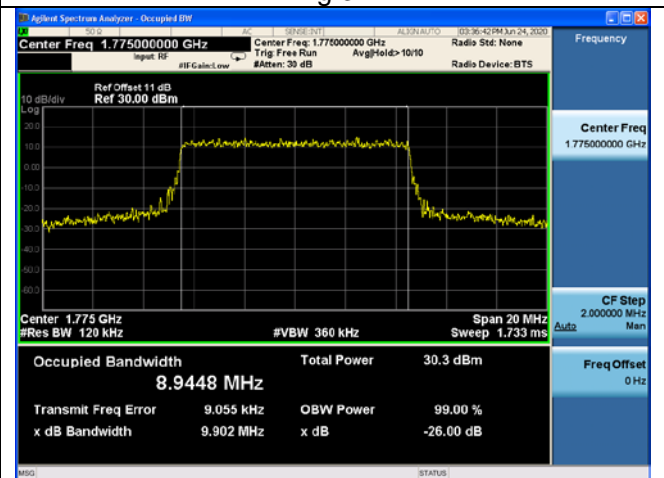


Fig.34

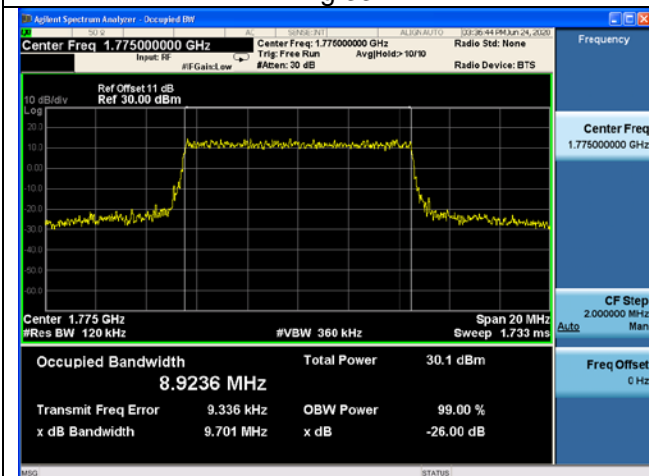


Fig.35

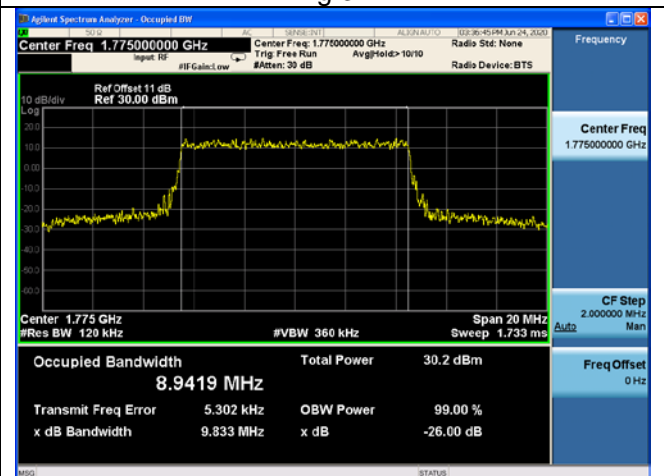


Fig.36

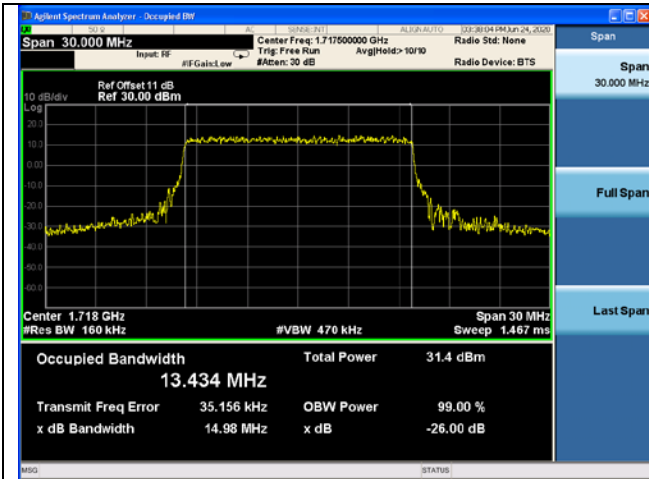


Fig.37

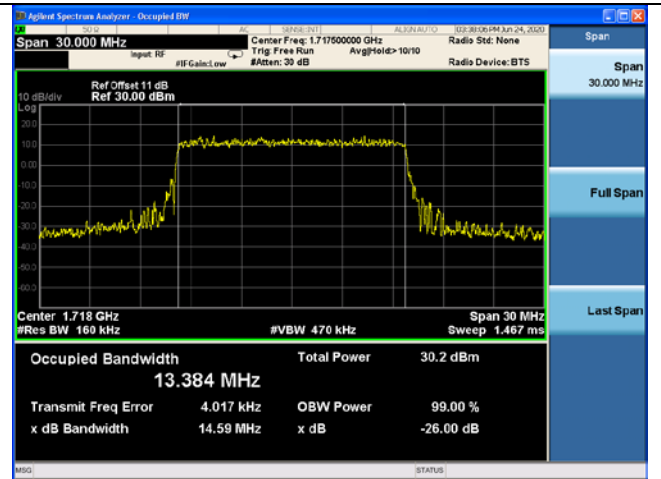


Fig.38

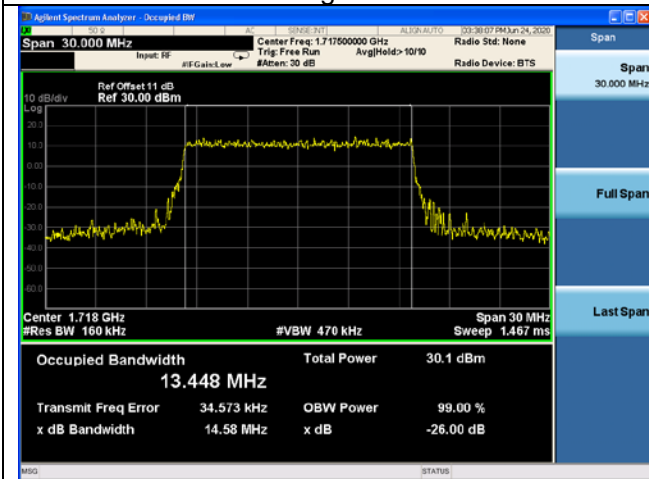


Fig.39

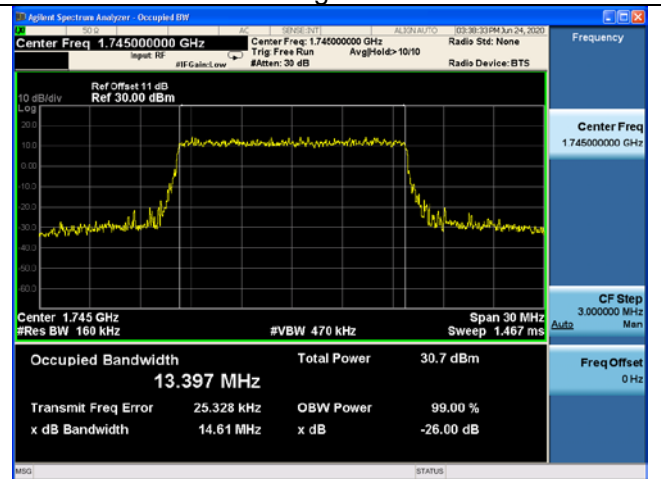


Fig.40

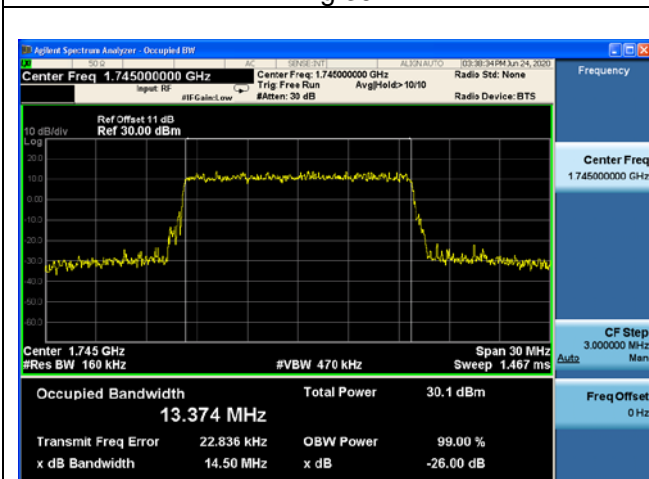


Fig.41

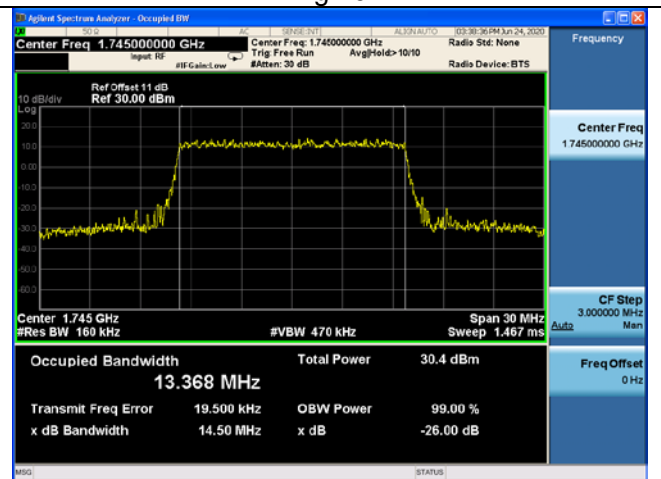


Fig.42

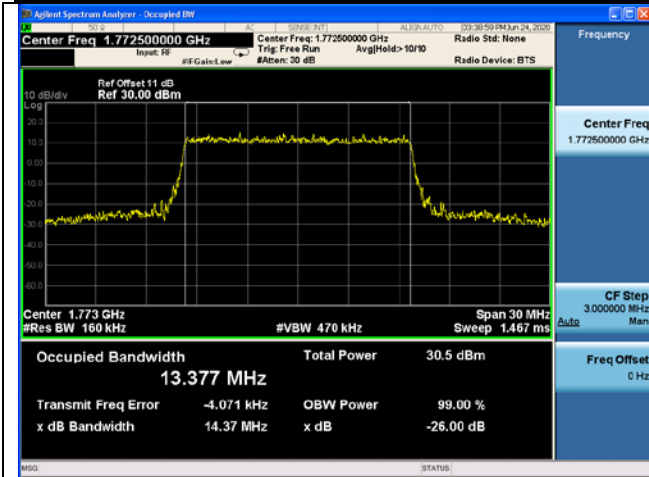


Fig.43

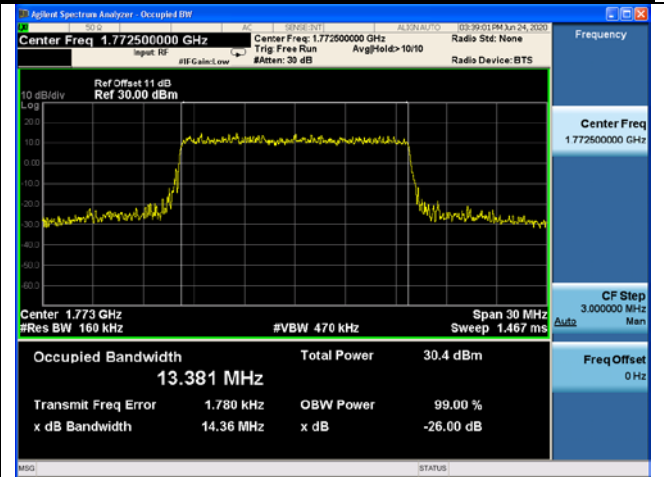


Fig.44

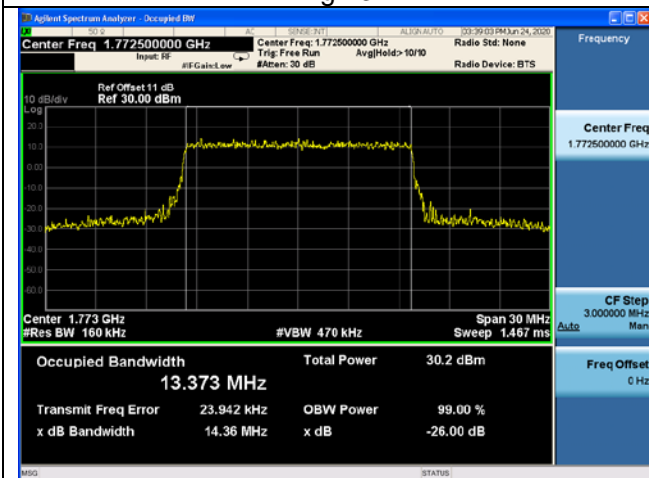


Fig.45

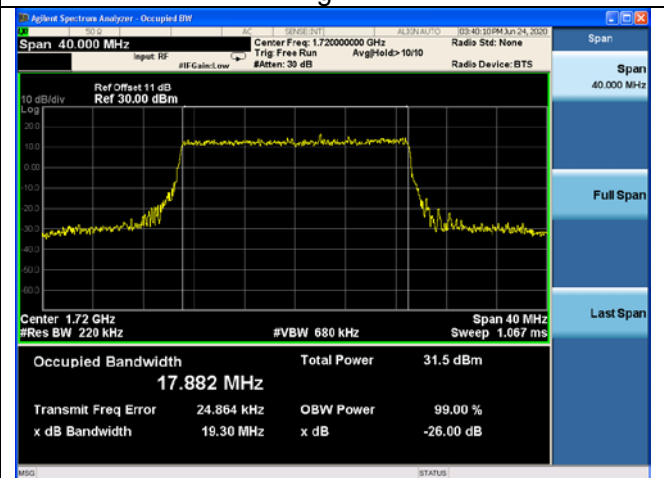


Fig.46

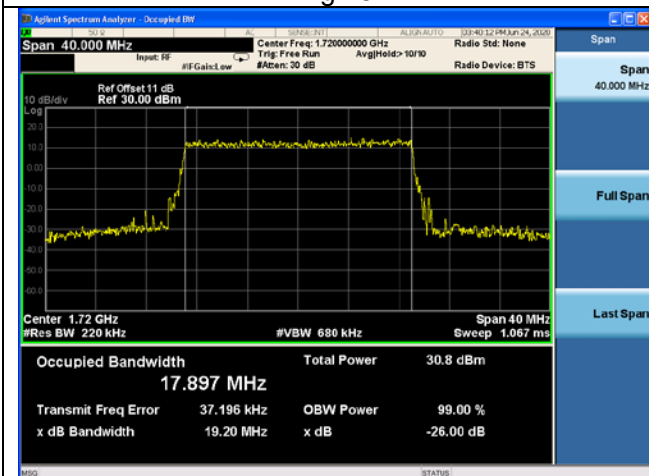


Fig.47

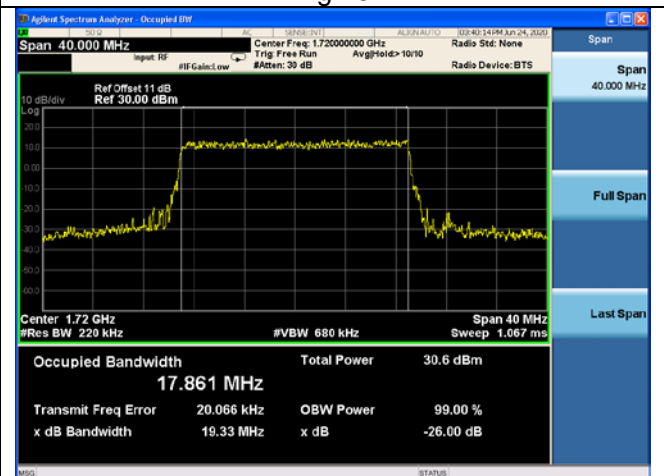


Fig.48

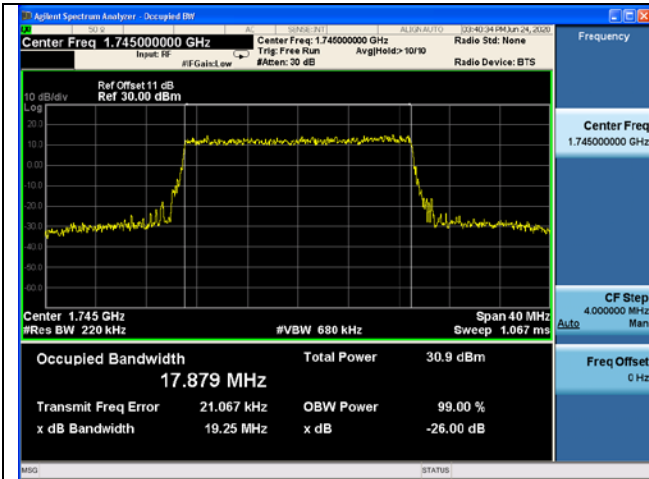


Fig.49

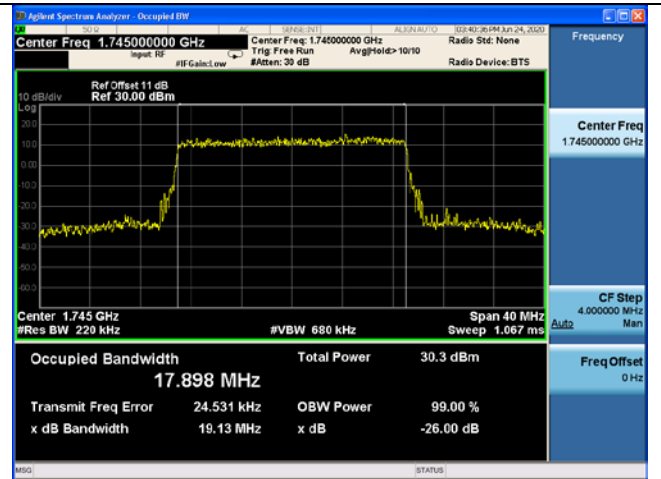


Fig.50

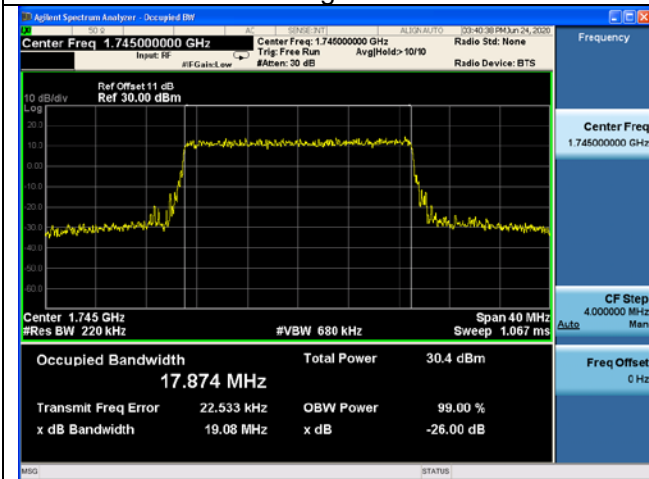


Fig.51

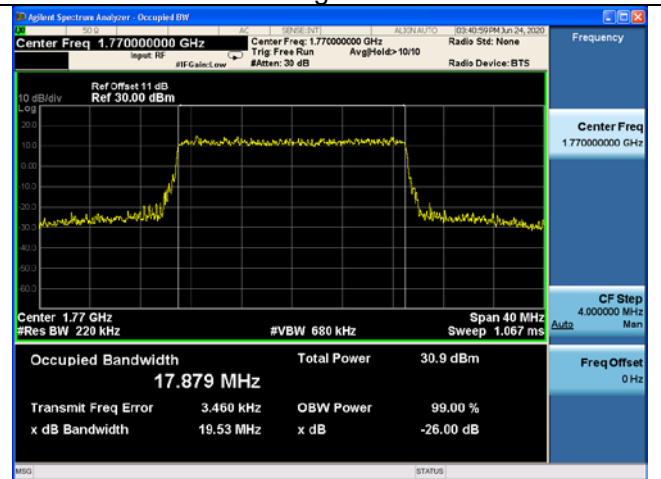


Fig.52

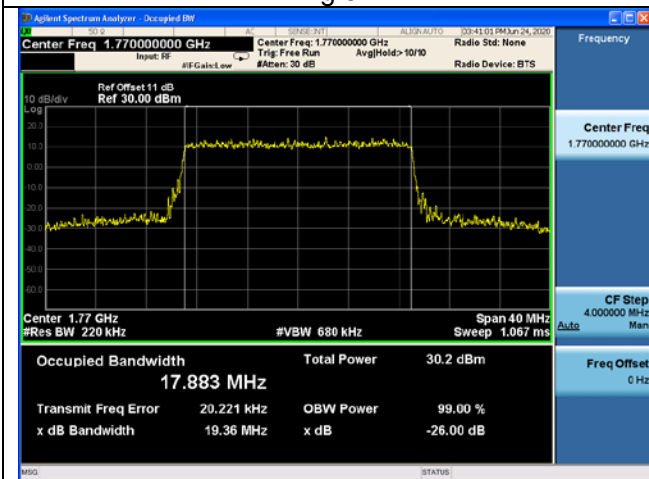


Fig.53

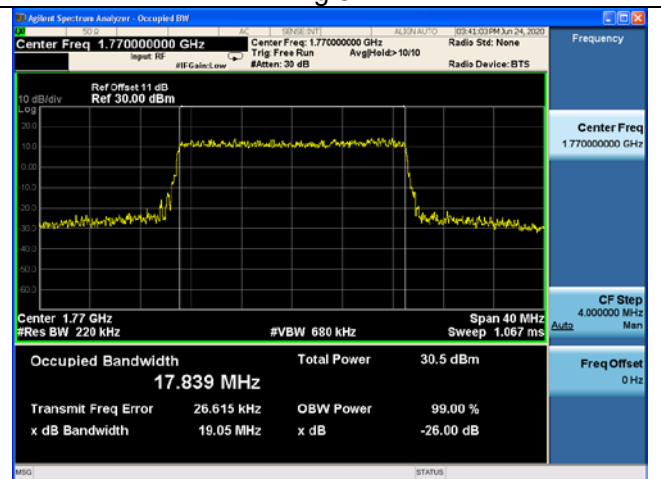


Fig.54

3 Peak-Average Ratio

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | QPSK | 16-QAM | 64-QAM |
|------|-------------------------|---------|----------|---------|-----------|--------|--------|--------|
| 66 | 1745 | 132322 | 1.4 | 1 | 0 | Fig.1 | Fig.2 | Fig.3 |
| | | | 3 | 1 | 0 | Fig.4 | Fig.5 | Fig.6 |
| | | | 5 | 1 | 0 | Fig.7 | Fig.8 | Fig.9 |
| | | | 10 | 1 | 0 | Fig.10 | Fig.11 | Fig.12 |
| | | | 15 | 1 | 0 | Fig.13 | Fig.14 | Fig.15 |
| | | | 20 | 1 | 0 | Fig.16 | Fig.17 | Fig.18 |

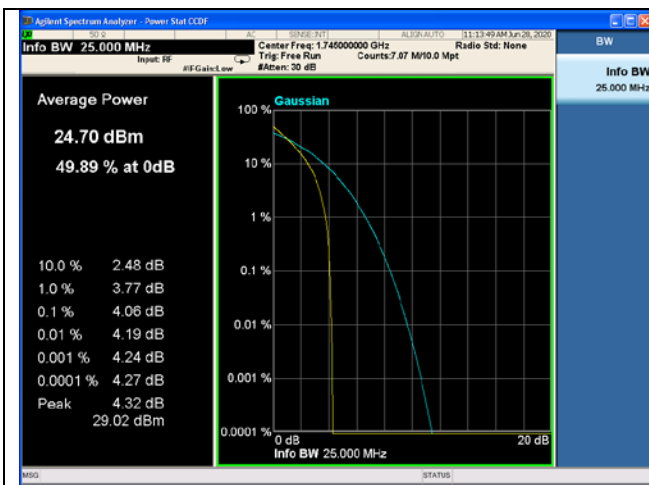


Fig.1

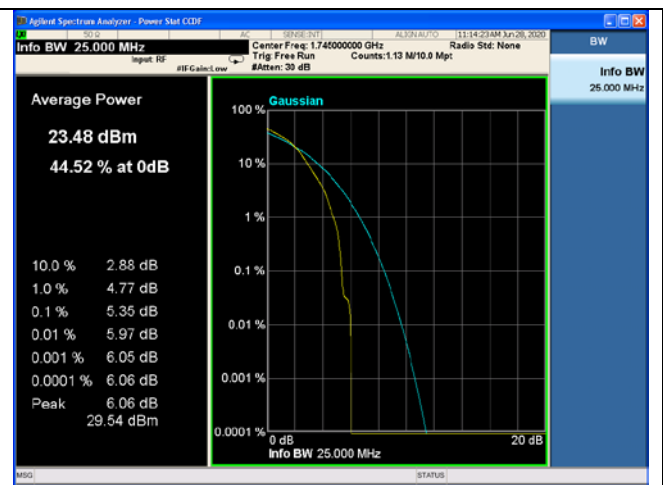


Fig.2

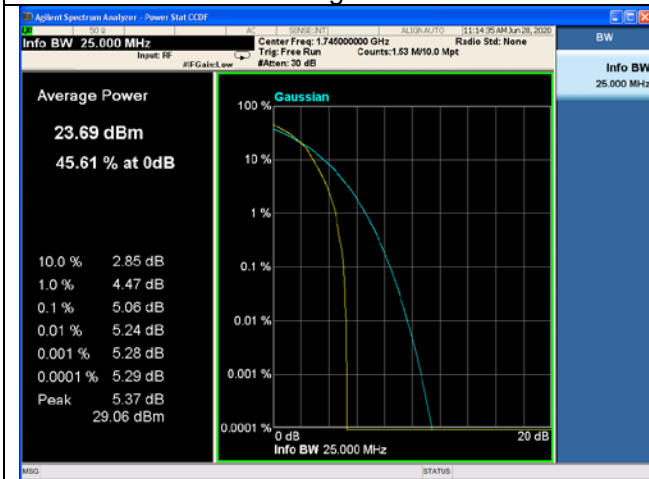


Fig.3



Fig.4

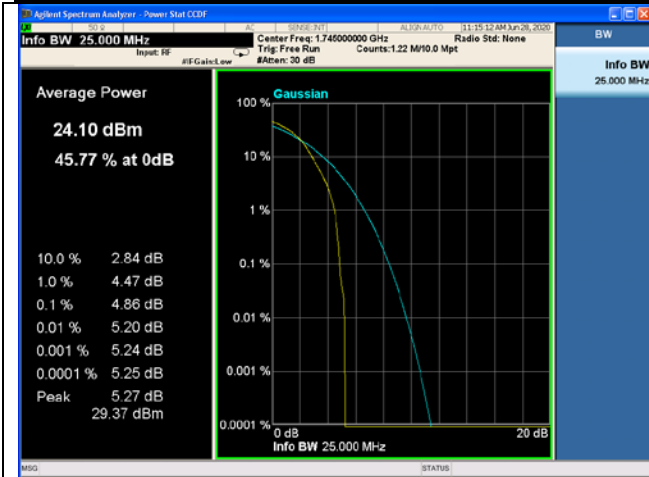


Fig.5

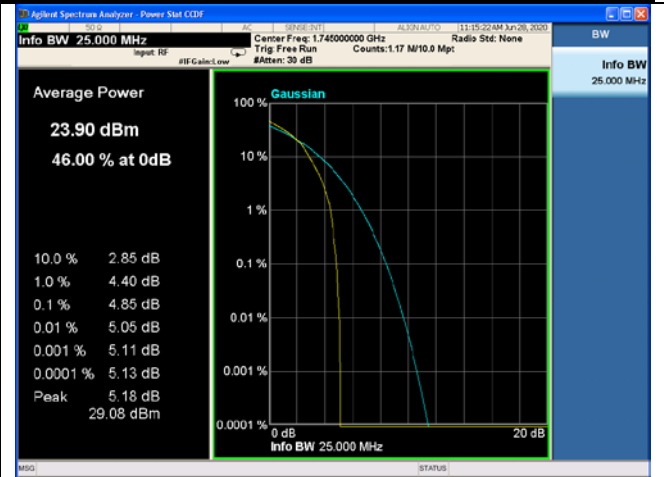


Fig.6

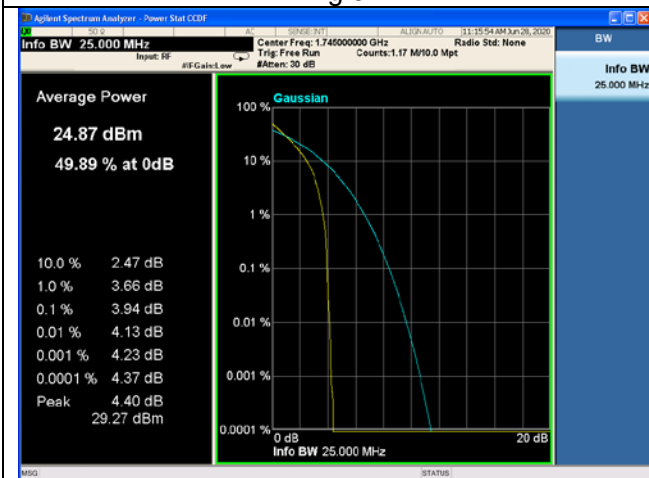


Fig.7



Fig.8

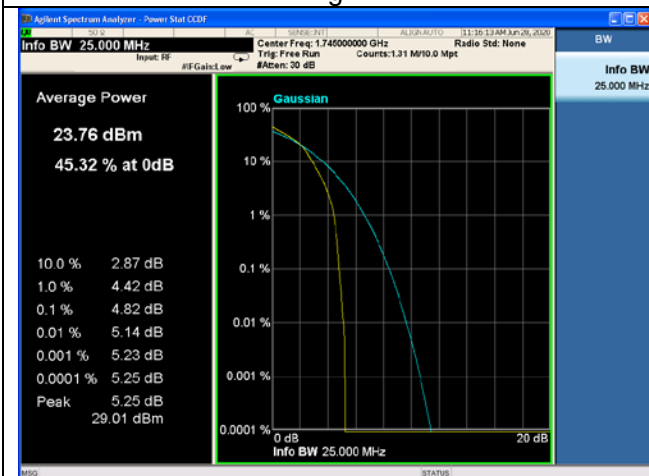


Fig.9

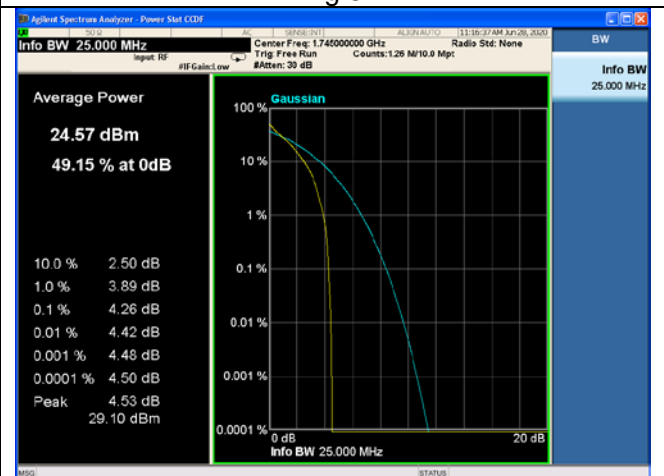


Fig.10

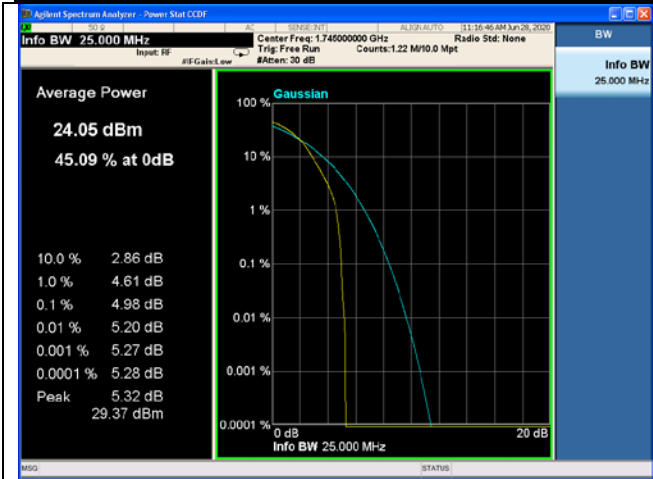


Fig.11

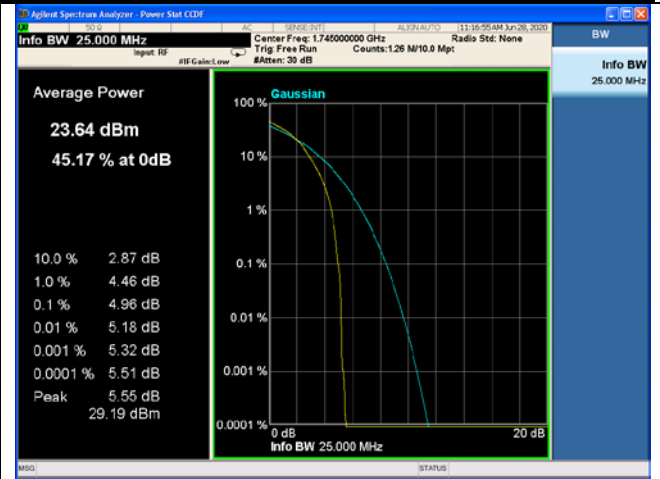


Fig.12

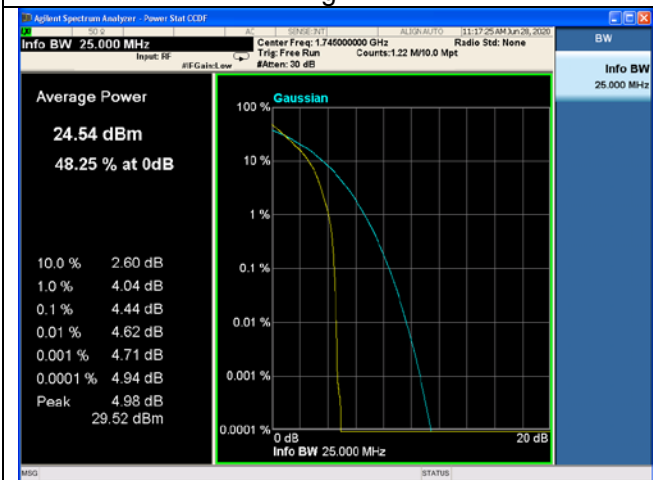


Fig.13

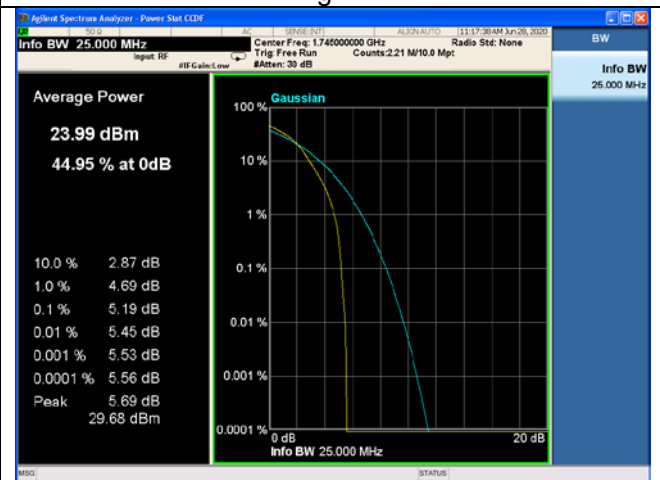


Fig.14

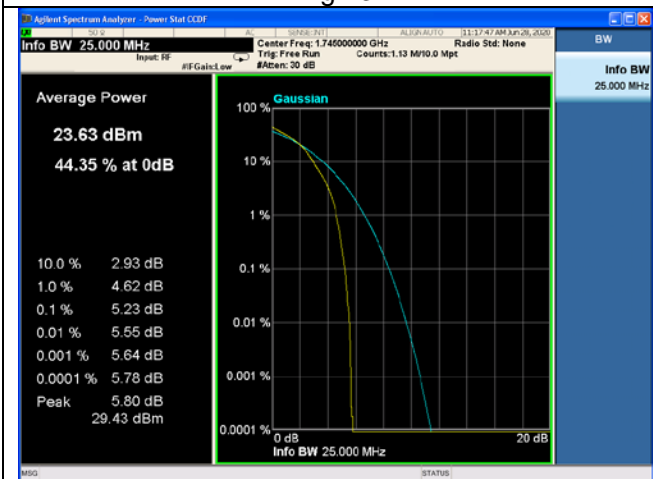


Fig.15

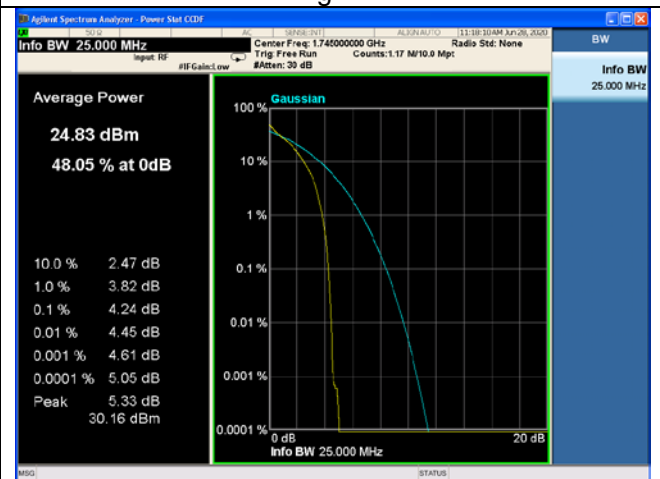


Fig.16

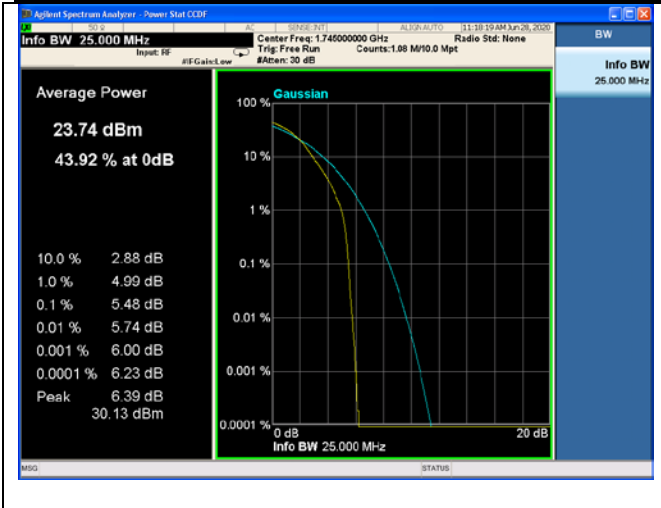


Fig.17

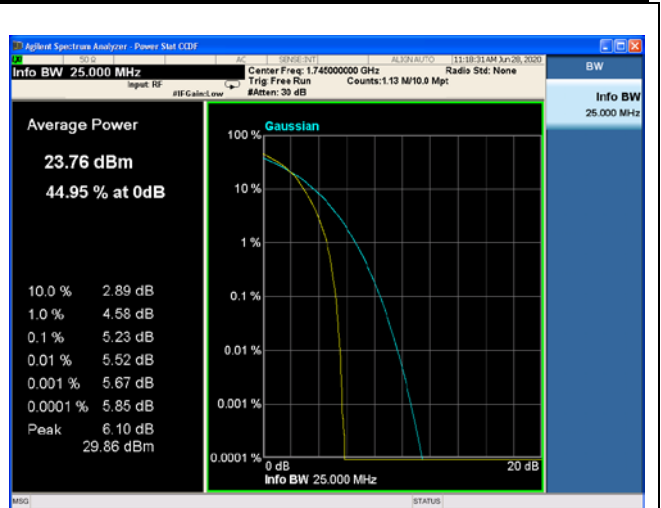


Fig.18

4 Spurious Emissions at antenna terminal

| Band | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Conducted Spurious Plot |
|------|-------------------------|---------|----|---------|-----------|-------------------------|
| | | | | | | QPSK |
| 66 | 1720 | 132072 | 20 | 1 | 0 | Fig.1 |
| | 1745 | 132322 | 20 | 1 | 0 | Fig.2 |
| | 1770 | 132572 | 20 | 1 | 0 | Fig.3 |

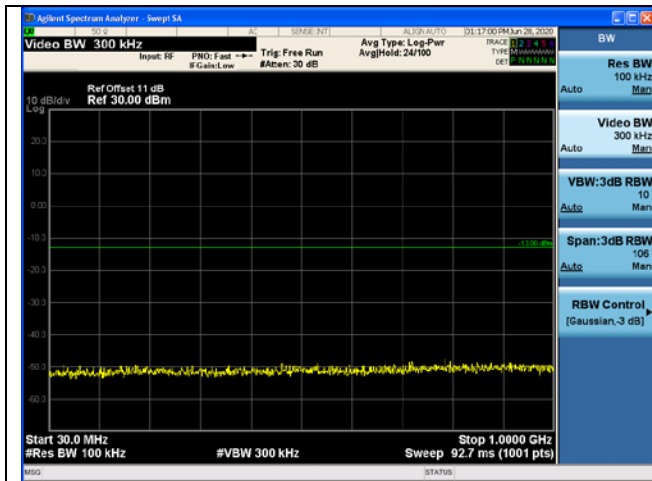


Fig.1

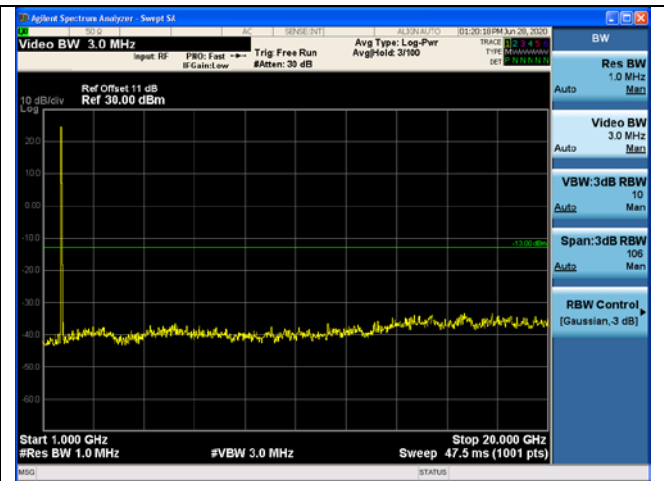


Fig.2

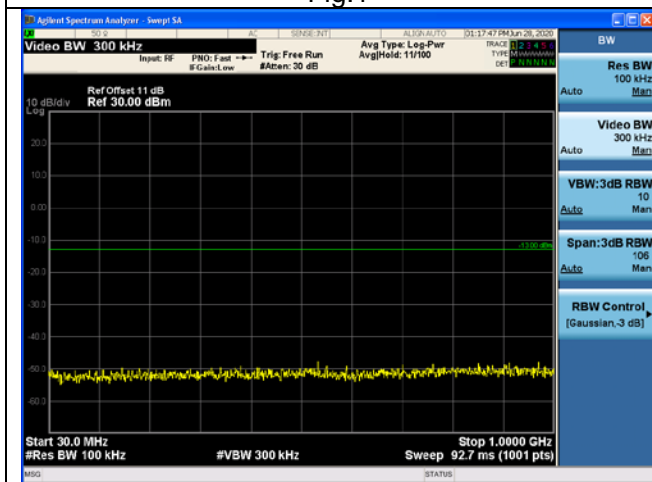


Fig.3

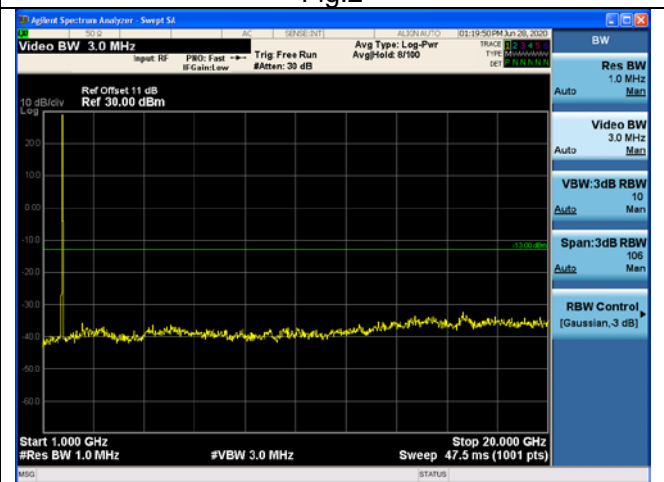


Fig.4

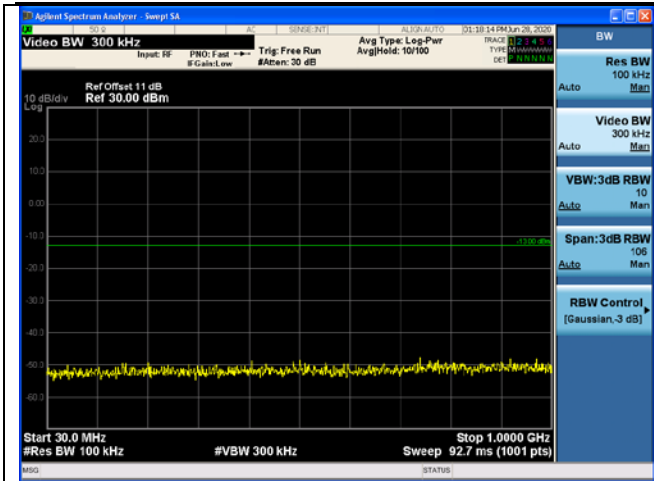


Fig.5



Fig.6