



## APPENDIX A – TEST DATA OF CONDUCTED EMISSION

### LTE Band 13

#### 1 RF Power Output

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 779.5                   | 23205      | 5  | 1       | 0         | 23.19                 |
| QPSK       | 779.5                   | 23205      | 5  | 1       | 12        | 23.47                 |
| QPSK       | 779.5                   | 23205      | 5  | 1       | 24        | 23.46                 |
| QPSK       | 779.5                   | 23205      | 5  | 12      | 0         | 22.35                 |
| QPSK       | 779.5                   | 23205      | 5  | 12      | 7         | 22.45                 |
| QPSK       | 779.5                   | 23205      | 5  | 12      | 13        | 22.42                 |
| QPSK       | 779.5                   | 23205      | 5  | 25      | 0         | 22.46                 |
| QPSK       | 782                     | 23230      | 5  | 1       | 0         | 23.62                 |
| QPSK       | 782                     | 23230      | 5  | 1       | 12        | 23.43                 |
| QPSK       | 782                     | 23230      | 5  | 1       | 24        | 23.38                 |
| QPSK       | 782                     | 23230      | 5  | 12      | 0         | 22.34                 |
| QPSK       | 782                     | 23230      | 5  | 12      | 7         | 22.37                 |
| QPSK       | 782                     | 23230      | 5  | 12      | 13        | 22.36                 |
| QPSK       | 782                     | 23230      | 5  | 25      | 0         | 22.35                 |
| QPSK       | 784.5                   | 23255      | 5  | 1       | 0         | 23.45                 |
| QPSK       | 784.5                   | 23255      | 5  | 1       | 12        | 23.44                 |
| QPSK       | 784.5                   | 23255      | 5  | 1       | 24        | 23.45                 |
| QPSK       | 784.5                   | 23255      | 5  | 12      | 0         | 22.35                 |
| QPSK       | 784.5                   | 23255      | 5  | 12      | 7         | 22.50                 |
| QPSK       | 784.5                   | 23255      | 5  | 12      | 13        | 22.53                 |
| QPSK       | 784.5                   | 23255      | 5  | 25      | 0         | 22.49                 |



| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| 16QAM      | 779.5                   | 23205      | 5  | 1       | 0         | 22.63                 |
| 16QAM      | 779.5                   | 23205      | 5  | 1       | 12        | 22.70                 |
| 16QAM      | 779.5                   | 23205      | 5  | 1       | 24        | 22.58                 |
| 16QAM      | 779.5                   | 23205      | 5  | 12      | 0         | 21.42                 |
| 16QAM      | 779.5                   | 23205      | 5  | 12      | 7         | 21.54                 |
| 16QAM      | 779.5                   | 23205      | 5  | 12      | 13        | 21.43                 |
| 16QAM      | 779.5                   | 23205      | 5  | 25      | 0         | 21.24                 |
| 16QAM      | 782                     | 23230      | 5  | 1       | 0         | 23.12                 |
| 16QAM      | 782                     | 23230      | 5  | 1       | 12        | 22.38                 |
| 16QAM      | 782                     | 23230      | 5  | 1       | 24        | 22.90                 |
| 16QAM      | 782                     | 23230      | 5  | 12      | 0         | 21.41                 |
| 16QAM      | 782                     | 23230      | 5  | 12      | 7         | 21.39                 |
| 16QAM      | 782                     | 23230      | 5  | 12      | 13        | 21.42                 |
| 16QAM      | 782                     | 23230      | 5  | 25      | 0         | 21.31                 |
| 16QAM      | 784.5                   | 23255      | 5  | 1       | 0         | 22.47                 |
| 16QAM      | 784.5                   | 23255      | 5  | 1       | 12        | 22.88                 |
| 16QAM      | 784.5                   | 23255      | 5  | 1       | 24        | 22.69                 |
| 16QAM      | 784.5                   | 23255      | 5  | 12      | 0         | 21.29                 |
| 16QAM      | 784.5                   | 23255      | 5  | 12      | 7         | 21.66                 |
| 16QAM      | 784.5                   | 23255      | 5  | 12      | 13        | 21.65                 |
| 16QAM      | 784.5                   | 23255      | 5  | 25      | 0         | 21.44                 |
| 64QAM      | 779.5                   | 23205      | 5  | 1       | 0         | 22.13                 |
| 64QAM      | 779.5                   | 23205      | 5  | 1       | 12        | 22.64                 |
| 64QAM      | 779.5                   | 23205      | 5  | 1       | 24        | 22.74                 |
| 64QAM      | 779.5                   | 23205      | 5  | 12      | 0         | 21.34                 |
| 64QAM      | 779.5                   | 23205      | 5  | 12      | 7         | 21.50                 |
| 64QAM      | 779.5                   | 23205      | 5  | 12      | 13        | 21.44                 |
| 64QAM      | 779.5                   | 23205      | 5  | 25      | 0         | 21.46                 |
| 64QAM      | 782                     | 23230      | 5  | 1       | 0         | 22.92                 |
| 64QAM      | 782                     | 23230      | 5  | 1       | 12        | 22.47                 |
| 64QAM      | 782                     | 23230      | 5  | 1       | 24        | 22.38                 |
| 64QAM      | 782                     | 23230      | 5  | 12      | 0         | 21.38                 |
| 64QAM      | 782                     | 23230      | 5  | 12      | 7         | 21.42                 |
| 64QAM      | 782                     | 23230      | 5  | 12      | 13        | 21.47                 |
| 64QAM      | 782                     | 23230      | 5  | 25      | 0         | 21.28                 |
| 64QAM      | 784.5                   | 23255      | 5  | 1       | 0         | 22.39                 |
| 64QAM      | 784.5                   | 23255      | 5  | 1       | 12        | 22.59                 |
| 64QAM      | 784.5                   | 23255      | 5  | 1       | 24        | 22.87                 |
| 64QAM      | 784.5                   | 23255      | 5  | 12      | 0         | 21.45                 |
| 64QAM      | 784.5                   | 23255      | 5  | 12      | 7         | 21.46                 |
| 64QAM      | 784.5                   | 23255      | 5  | 12      | 13        | 21.63                 |
| 64QAM      | 784.5                   | 23255      | 5  | 25      | 0         | 21.44                 |



| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 782                     | 23230      | 10 | 1       | 0         | 23.38                 |
| QPSK       | 782                     | 23230      | 10 | 1       | 25        | 23.47                 |
| QPSK       | 782                     | 23230      | 10 | 1       | 49        | 23.53                 |
| QPSK       | 782                     | 23230      | 10 | 25      | 0         | 22.32                 |
| QPSK       | 782                     | 23230      | 10 | 25      | 12        | 22.53                 |
| QPSK       | 782                     | 23230      | 10 | 25      | 25        | 22.53                 |
| QPSK       | 782                     | 23230      | 10 | 50      | 0         | 22.39                 |
| QPSK       | 782                     | 23230      | 10 | 1       | 0         | 23.33                 |
| QPSK       | 782                     | 23230      | 10 | 1       | 25        | 23.30                 |
| QPSK       | 782                     | 23230      | 10 | 1       | 49        | 23.59                 |
| QPSK       | 782                     | 23230      | 10 | 25      | 0         | 22.44                 |
| QPSK       | 782                     | 23230      | 10 | 25      | 12        | 22.40                 |
| QPSK       | 782                     | 23230      | 10 | 25      | 25        | 22.54                 |
| QPSK       | 782                     | 23230      | 10 | 50      | 0         | 22.47                 |
| QPSK       | 782                     | 23230      | 10 | 1       | 0         | 23.36                 |
| QPSK       | 782                     | 23230      | 10 | 1       | 25        | 23.44                 |
| QPSK       | 782                     | 23230      | 10 | 1       | 49        | 23.53                 |
| QPSK       | 782                     | 23230      | 10 | 25      | 0         | 22.50                 |
| QPSK       | 782                     | 23230      | 10 | 25      | 12        | 22.50                 |
| QPSK       | 782                     | 23230      | 10 | 25      | 25        | 22.54                 |
| QPSK       | 782                     | 23230      | 10 | 50      | 0         | 22.46                 |



| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| 16QAM      | 782                     | 23230      | 10 | 1       | 0         | 22.69                 |
| 16QAM      | 782                     | 23230      | 10 | 1       | 25        | 23.09                 |
| 16QAM      | 782                     | 23230      | 10 | 1       | 49        | 23.09                 |
| 16QAM      | 782                     | 23230      | 10 | 25      | 0         | 21.49                 |
| 16QAM      | 782                     | 23230      | 10 | 25      | 12        | 21.41                 |
| 16QAM      | 782                     | 23230      | 10 | 25      | 25        | 21.50                 |
| 16QAM      | 782                     | 23230      | 10 | 50      | 0         | 21.63                 |
| 16QAM      | 782                     | 23230      | 10 | 1       | 0         | 22.57                 |
| 16QAM      | 782                     | 23230      | 10 | 1       | 25        | 22.27                 |
| 16QAM      | 782                     | 23230      | 10 | 1       | 49        | 22.92                 |
| 16QAM      | 782                     | 23230      | 10 | 25      | 0         | 21.50                 |
| 16QAM      | 782                     | 23230      | 10 | 25      | 12        | 21.47                 |
| 16QAM      | 782                     | 23230      | 10 | 25      | 25        | 21.48                 |
| 16QAM      | 782                     | 23230      | 10 | 50      | 0         | 21.31                 |
| 16QAM      | 782                     | 23230      | 10 | 1       | 0         | 22.82                 |
| 16QAM      | 782                     | 23230      | 10 | 1       | 25        | 23.25                 |
| 16QAM      | 782                     | 23230      | 10 | 1       | 49        | 22.81                 |
| 16QAM      | 782                     | 23230      | 10 | 25      | 0         | 21.38                 |
| 16QAM      | 782                     | 23230      | 10 | 25      | 12        | 21.41                 |
| 16QAM      | 782                     | 23230      | 10 | 25      | 25        | 21.67                 |
| 16QAM      | 782                     | 23230      | 10 | 50      | 0         | 21.31                 |
| 64QAM      | 782                     | 23230      | 10 | 1       | 0         | 22.44                 |
| 64QAM      | 782                     | 23230      | 10 | 1       | 25        | 22.62                 |
| 64QAM      | 782                     | 23230      | 10 | 1       | 49        | 22.78                 |
| 64QAM      | 782                     | 23230      | 10 | 25      | 0         | 21.44                 |
| 64QAM      | 782                     | 23230      | 10 | 25      | 12        | 21.28                 |
| 64QAM      | 782                     | 23230      | 10 | 25      | 25        | 21.40                 |
| 64QAM      | 782                     | 23230      | 10 | 50      | 0         | 21.34                 |
| 64QAM      | 782                     | 23230      | 10 | 1       | 0         | 21.52                 |
| 64QAM      | 782                     | 23230      | 10 | 1       | 25        | 21.57                 |
| 64QAM      | 782                     | 23230      | 10 | 1       | 49        | 21.68                 |
| 64QAM      | 782                     | 23230      | 10 | 25      | 0         | 20.47                 |
| 64QAM      | 782                     | 23230      | 10 | 25      | 12        | 20.58                 |
| 64QAM      | 782                     | 23230      | 10 | 25      | 25        | 20.51                 |
| 64QAM      | 782                     | 23230      | 10 | 50      | 0         | 20.37                 |
| 64QAM      | 782                     | 23230      | 10 | 1       | 0         | 21.98                 |
| 64QAM      | 782                     | 23230      | 10 | 1       | 25        | 21.34                 |
| 64QAM      | 782                     | 23230      | 10 | 1       | 49        | 21.75                 |
| 64QAM      | 782                     | 23230      | 10 | 25      | 0         | 20.47                 |
| 64QAM      | 782                     | 23230      | 10 | 25      | 12        | 20.37                 |
| 64QAM      | 782                     | 23230      | 10 | 25      | 25        | 20.57                 |
| 64QAM      | 782                     | 23230      | 10 | 50      | 0         | 20.43                 |



## 2 Occupied Bandwidth

| Band | Mode | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of 99% Power (MHz) |       |
|------|------|-------------------------|---------|----------|---------|-----------|------------------------------|-------|
| 13   | QPSK | 779.5                   | 23205   | 5        | 25      | 0         | 4.447                        | Fig.1 |
| 13   | QPSK | 782                     | 23230   | 5        | 25      | 0         | 4.455                        | Fig.2 |
| 13   | QPSK | 784.5                   | 23255   | 5        | 25      | 0         | 4.472                        | Fig.3 |
| 13   | QPSK | 782                     | 23230   | 10       | 50      | 0         | 8.897                        | Fig.4 |
| 13   | QPSK | 782                     | 23230   | 10       | 50      | 0         | 8.892                        | Fig.5 |
| 13   | QPSK | 782                     | 23230   | 10       | 50      | 0         | 8.923                        | Fig.6 |

| Band | Mode  | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of 99% Power (MHz) |        |
|------|-------|-------------------------|---------|----------|---------|-----------|------------------------------|--------|
| 13   | 16QAM | 779.5                   | 23205   | 5        | 25      | 0         | 4.431                        | Fig.7  |
| 13   | 16QAM | 782                     | 23230   | 5        | 25      | 0         | 4.466                        | Fig.8  |
| 13   | 16QAM | 784.5                   | 23255   | 5        | 25      | 0         | 4.463                        | Fig.9  |
| 13   | 16QAM | 782                     | 23230   | 10       | 50      | 0         | 8.863                        | Fig.10 |
| 13   | 16QAM | 782                     | 23230   | 10       | 50      | 0         | 8.921                        | Fig.11 |
| 13   | 16QAM | 782                     | 23230   | 10       | 50      | 0         | 8.877                        | Fig.12 |

| Band | Mode  | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of 99% Power (MHz) |        |
|------|-------|-------------------------|---------|----------|---------|-----------|------------------------------|--------|
| 13   | 64QAM | 779.5                   | 23205   | 5        | 25      | 0         | 4.454                        | Fig.13 |
| 13   | 64QAM | 782                     | 23230   | 5        | 25      | 0         | 4.456                        | Fig.14 |
| 13   | 64QAM | 784.5                   | 23255   | 5        | 25      | 0         | 4.444                        | Fig.15 |
| 13   | 64QAM | 782                     | 23230   | 10       | 50      | 0         | 8.886                        | Fig.16 |
| 13   | 64QAM | 782                     | 23230   | 10       | 50      | 0         | 8.876                        | Fig.17 |
| 13   | 64QAM | 782                     | 23230   | 10       | 50      | 0         | 8.930                        | Fig.18 |

Test Mode: QPSK

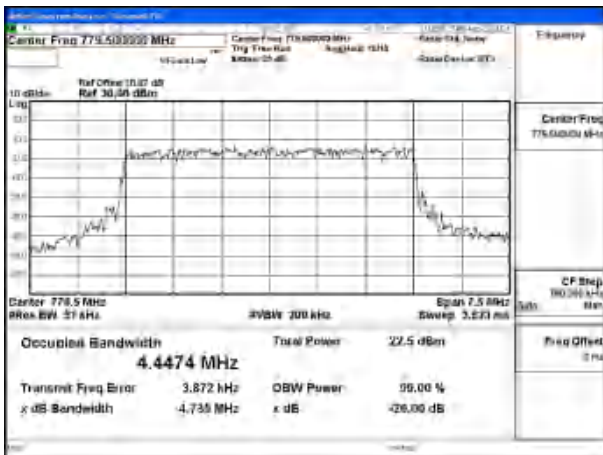


Fig.1

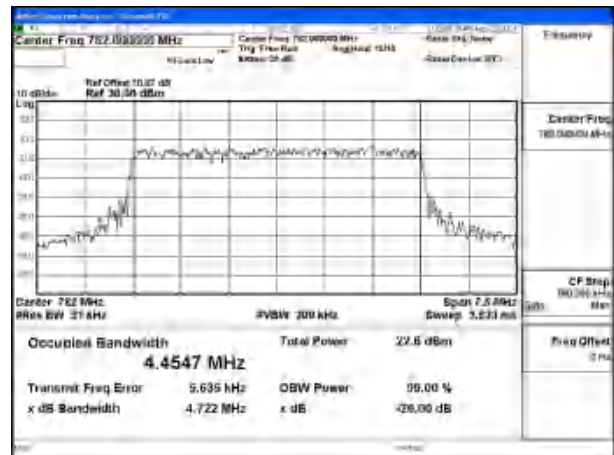


Fig.2



Fig.3

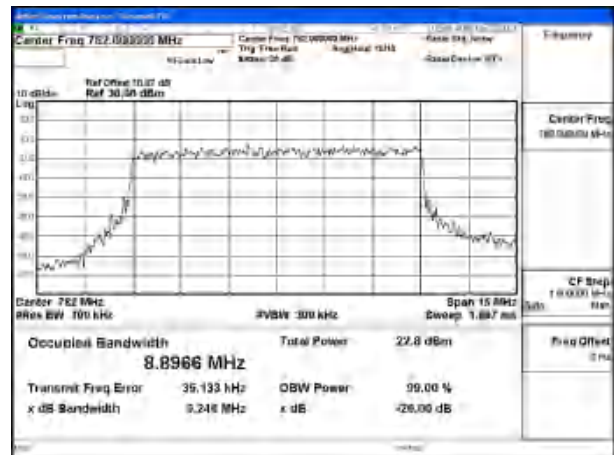


Fig.4



Fig.5

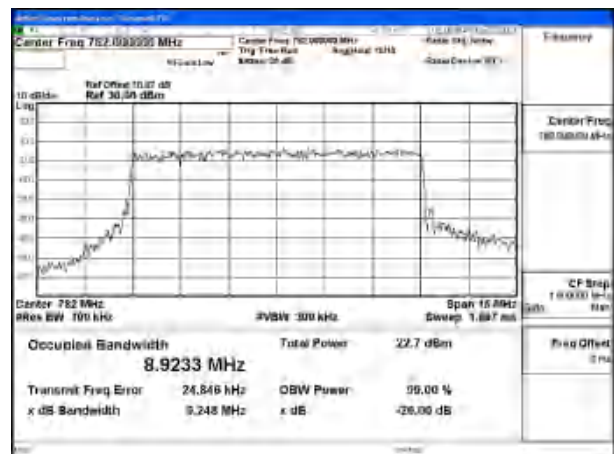


Fig.6

Test Mode: 16QAM

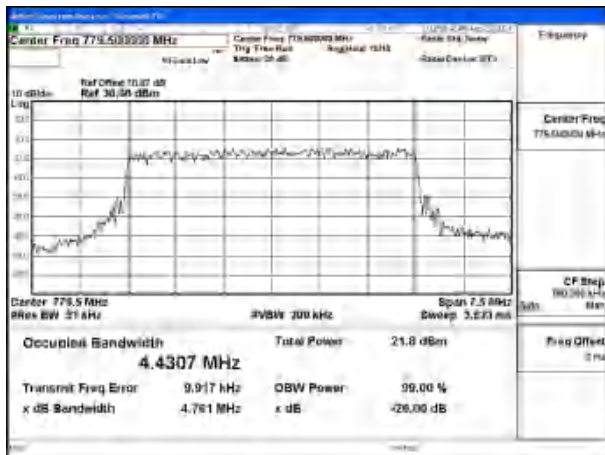


Fig.7

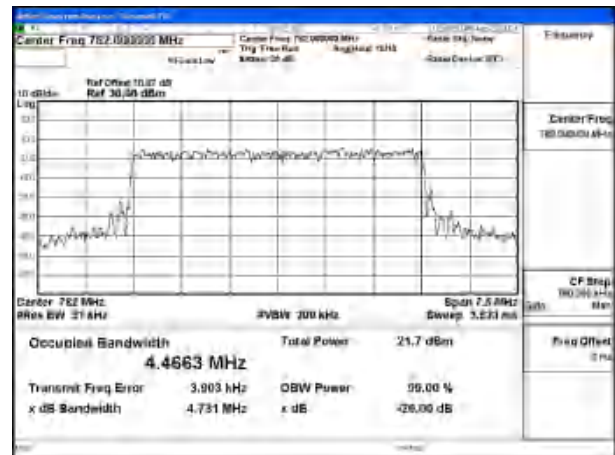


Fig.8

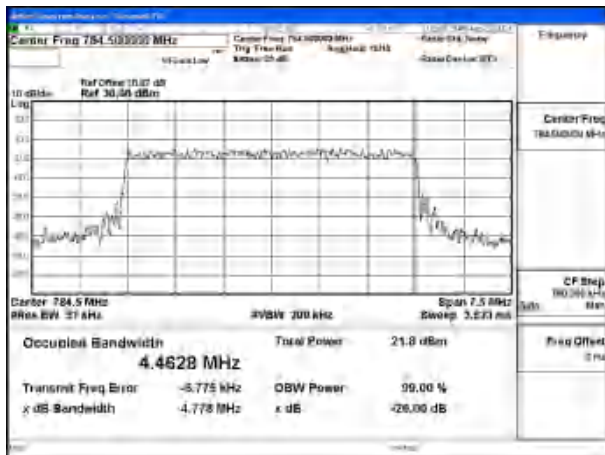


Fig.9

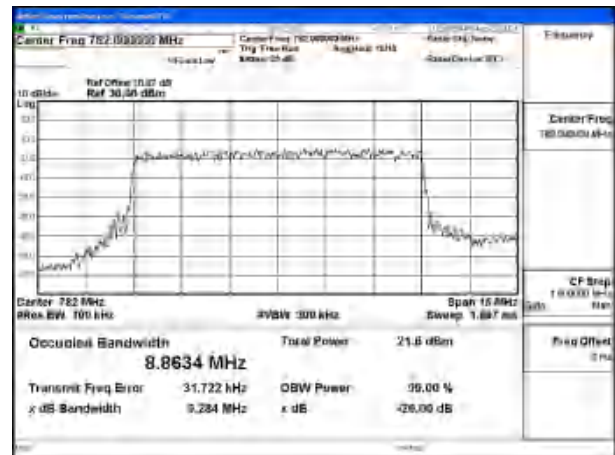


Fig.10

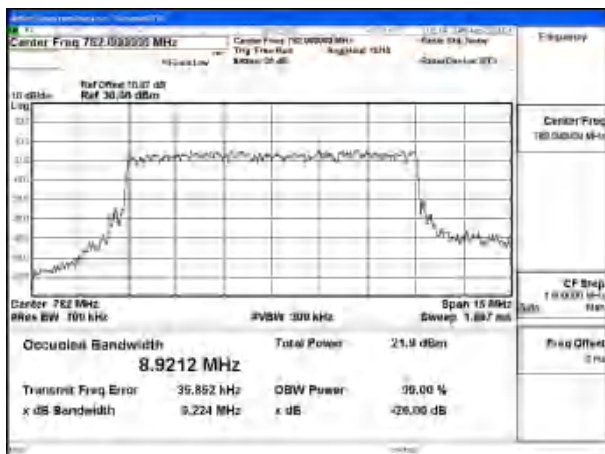


Fig.11

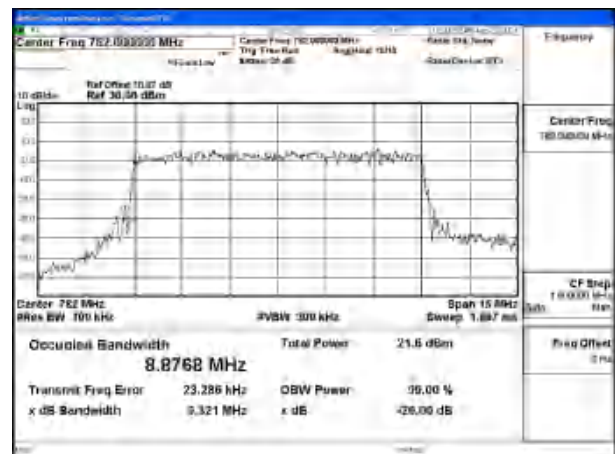


Fig.12

Test Mode: 64QAM

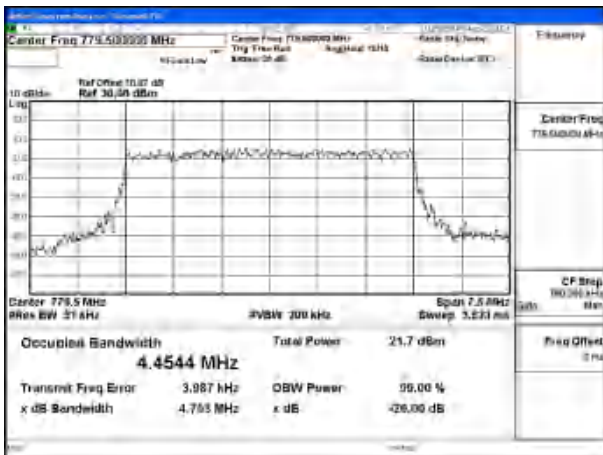


Fig.13

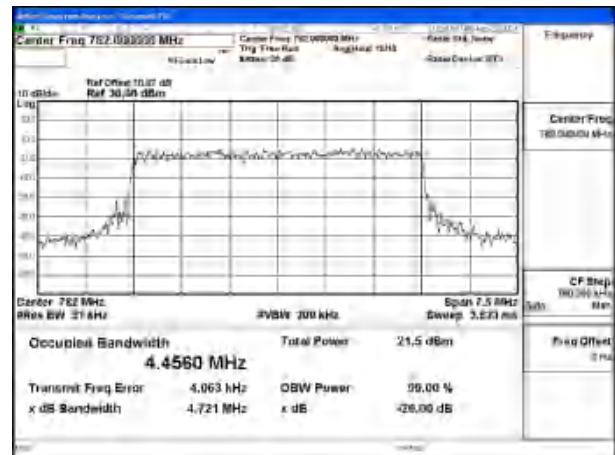


Fig.14



Fig.15

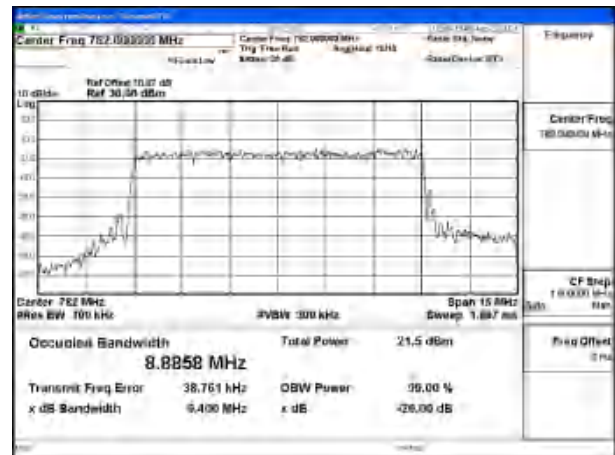


Fig.16



Fig.17

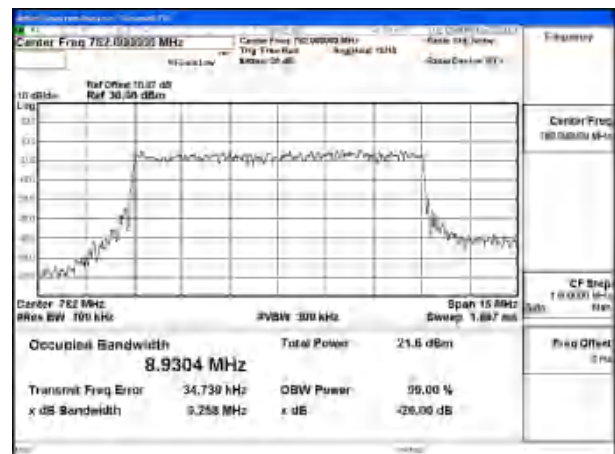


Fig.18



### 3 Emission Bandwidth

| Band | Mode | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of -26dB transmitter power (MHz) |       |
|------|------|-------------------------|---------|----------|---------|-----------|--------------------------------------------|-------|
| 13   | QPSK | 779.5                   | 23205   | 5        | 25      | 0         | 4.735                                      | Fig.1 |
| 13   | QPSK | 782                     | 23230   | 5        | 25      | 0         | 4.722                                      | Fig.2 |
| 13   | QPSK | 784.5                   | 23255   | 5        | 25      | 0         | 4.725                                      | Fig.3 |
| 13   | QPSK | 782                     | 23230   | 10       | 50      | 0         | 9.246                                      | Fig.4 |
| 13   | QPSK | 782                     | 23230   | 10       | 50      | 0         | 9.370                                      | Fig.5 |
| 13   | QPSK | 782                     | 23230   | 10       | 50      | 0         | 9.248                                      | Fig.6 |

| Band | Mode  | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of -26dB transmitter power (MHz) |        |
|------|-------|-------------------------|---------|----------|---------|-----------|--------------------------------------------|--------|
| 13   | 16QAM | 779.5                   | 23205   | 5        | 25      | 0         | 4.761                                      | Fig.7  |
| 13   | 16QAM | 782                     | 23230   | 5        | 25      | 0         | 4.731                                      | Fig.8  |
| 13   | 16QAM | 784.5                   | 23255   | 5        | 25      | 0         | 4.778                                      | Fig.9  |
| 13   | 16QAM | 782                     | 23230   | 10       | 50      | 0         | 9.284                                      | Fig.10 |
| 13   | 16QAM | 782                     | 23230   | 10       | 50      | 0         | 9.224                                      | Fig.11 |
| 13   | 16QAM | 782                     | 23230   | 10       | 50      | 0         | 9.321                                      | Fig.12 |

| Band | Mode  | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of -26dB transmitter power (MHz) |        |
|------|-------|-------------------------|---------|----------|---------|-----------|--------------------------------------------|--------|
| 13   | 64QAM | 779.5                   | 23205   | 5        | 25      | 0         | 4.753                                      | Fig.13 |
| 13   | 64QAM | 782                     | 23230   | 5        | 25      | 0         | 4.721                                      | Fig.14 |
| 13   | 64QAM | 784.5                   | 23255   | 5        | 25      | 0         | 4.673                                      | Fig.15 |
| 13   | 64QAM | 782                     | 23230   | 10       | 50      | 0         | 9.400                                      | Fig.16 |
| 13   | 64QAM | 782                     | 23230   | 10       | 50      | 0         | 9.230                                      | Fig.17 |
| 13   | 64QAM | 782                     | 23230   | 10       | 50      | 0         | 9.258                                      | Fig.18 |

Test Mode: QPSK

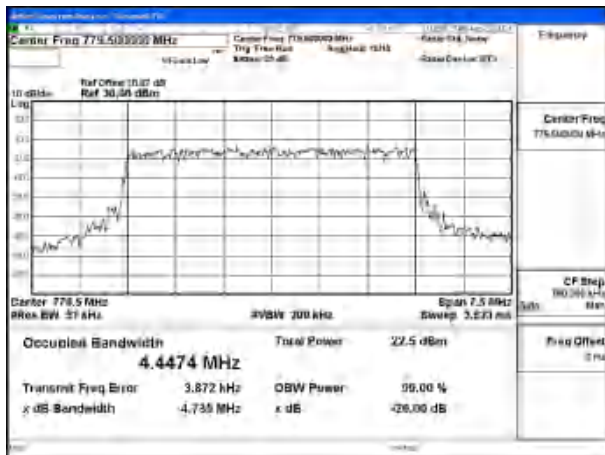


Fig.1

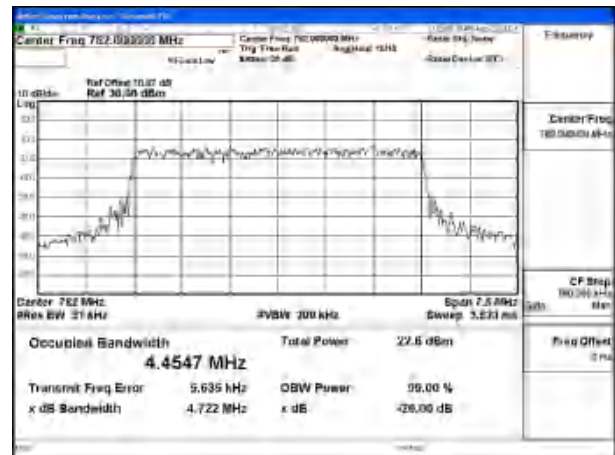


Fig.2



Fig.3



Fig.4



Fig.5

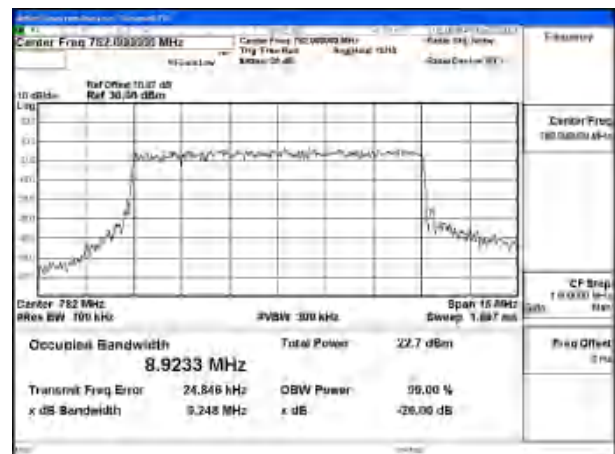


Fig.6

Test Mode: 16QAM

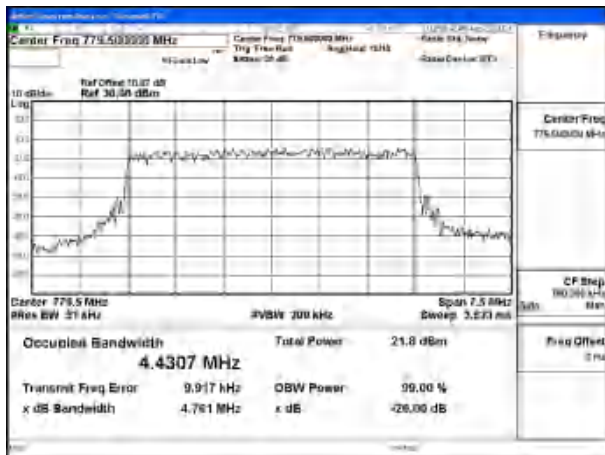


Fig.7

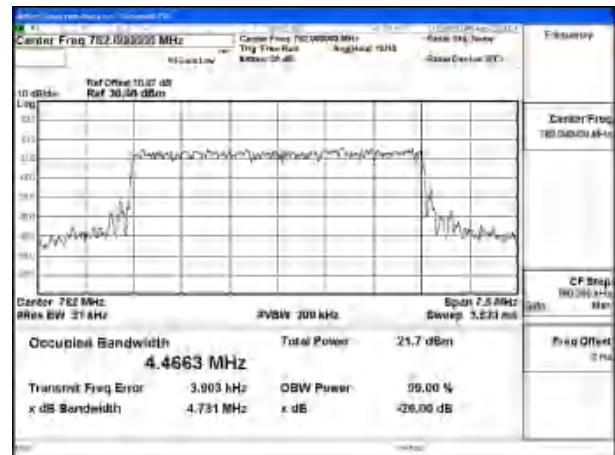


Fig.8

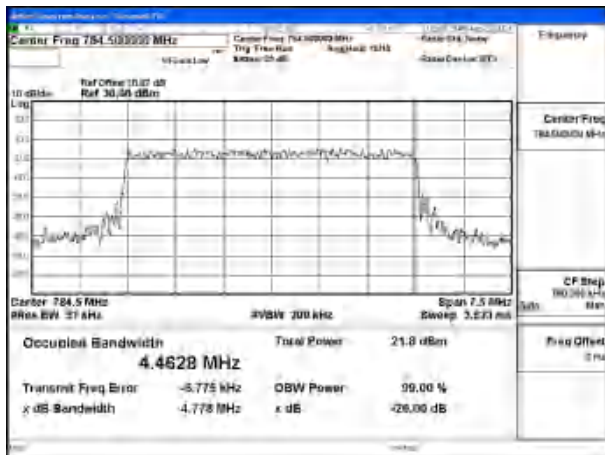


Fig.9

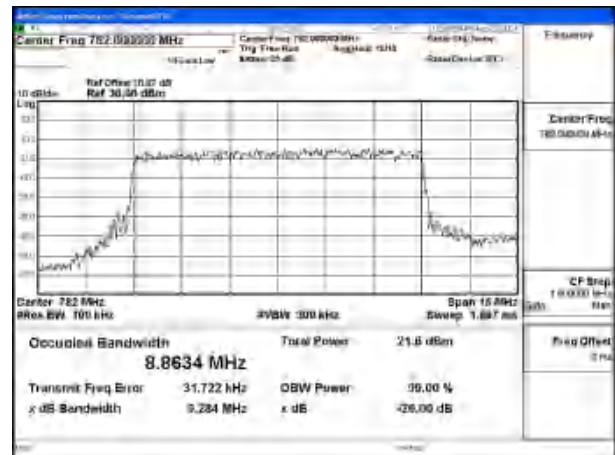


Fig.10

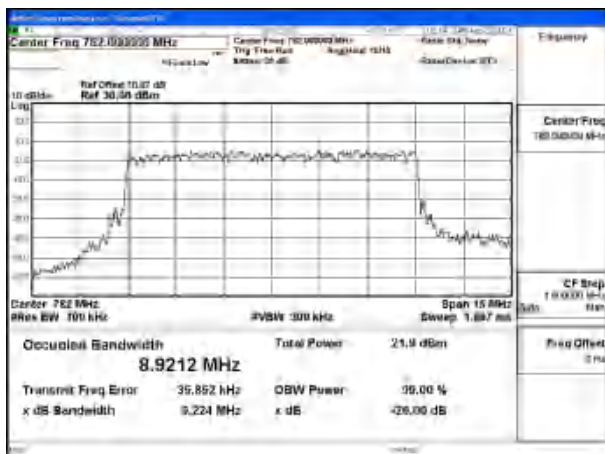


Fig.11

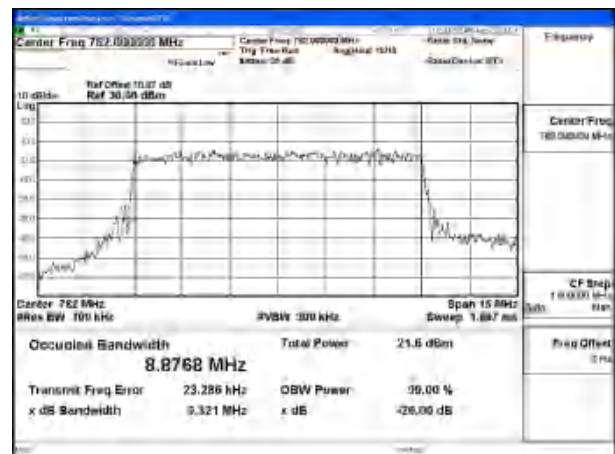


Fig.12

Test Mode: 64QAM

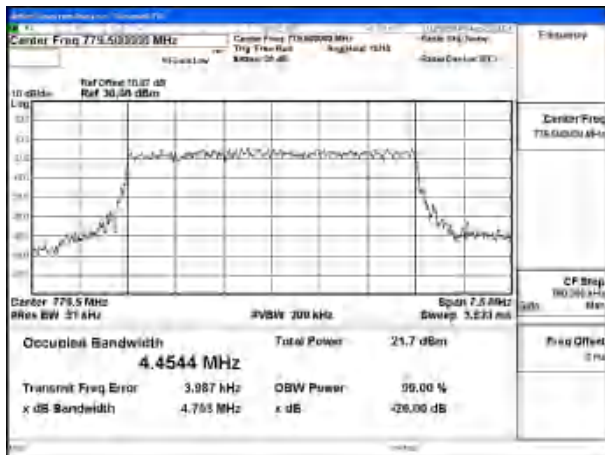


Fig.13

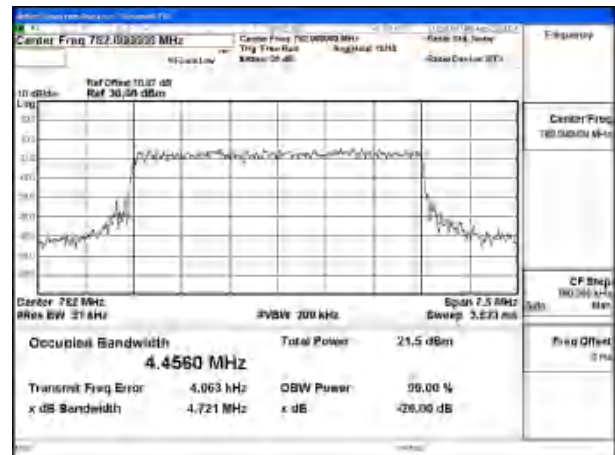


Fig.14

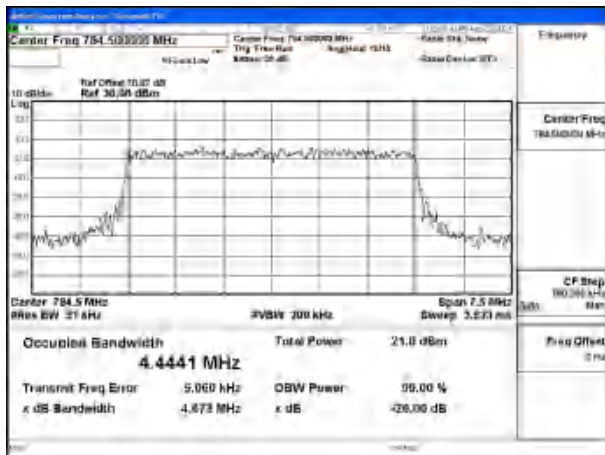


Fig.15

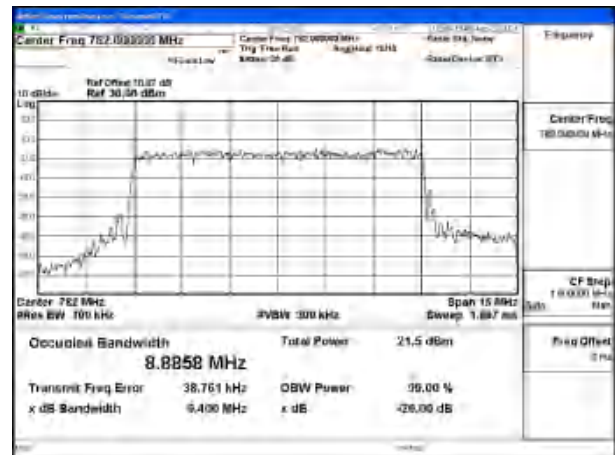


Fig.16



Fig.17

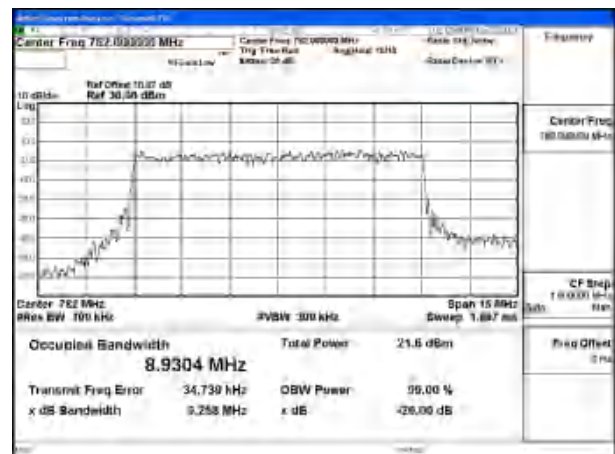


Fig.18



#### 4 Peak-Average Ratio

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | QPSK   | 16-QAM | 64-QAM |
|------|-------------------------|---------|----------|---------|-----------|--------|--------|--------|
| 13   | 779.5                   | 23205   | 5        | 1       | 24        | Fig.1  | Fig.2  | Fig.3  |
| 13   | 779.5                   | 23205   | 5        | 25      | 0         | Fig.4  | Fig.5  | Fig.6  |
| 13   | 782                     | 23230   | 5        | 1       | 24        | Fig.7  | Fig.8  | Fig.9  |
| 13   | 782                     | 23230   | 5        | 25      | 0         | Fig.10 | Fig.11 | Fig.12 |
| 13   | 784.5                   | 23255   | 5        | 1       | 24        | Fig.13 | Fig.14 | Fig.15 |
| 13   | 784.5                   | 23255   | 5        | 25      | 0         | Fig.16 | Fig.17 | Fig.18 |
| 13   | 782                     | 23230   | 10       | 1       | 49        | Fig.19 | Fig.20 | Fig.21 |
| 13   | 782                     | 23230   | 10       | 50      | 0         | Fig.22 | Fig.23 | Fig.24 |

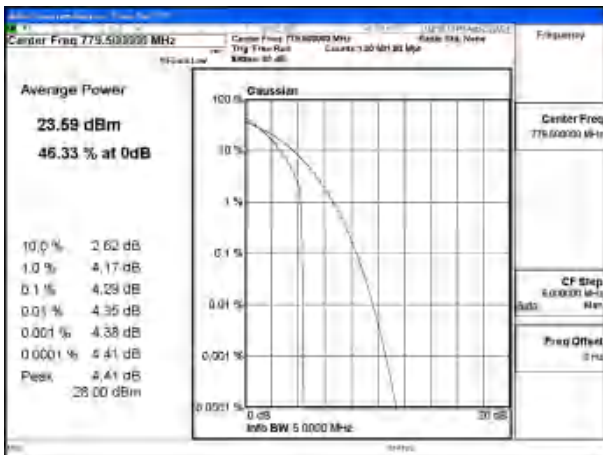


Fig.1

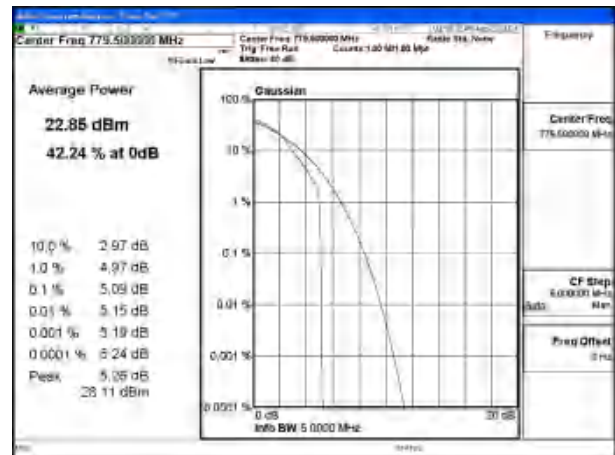


Fig.2

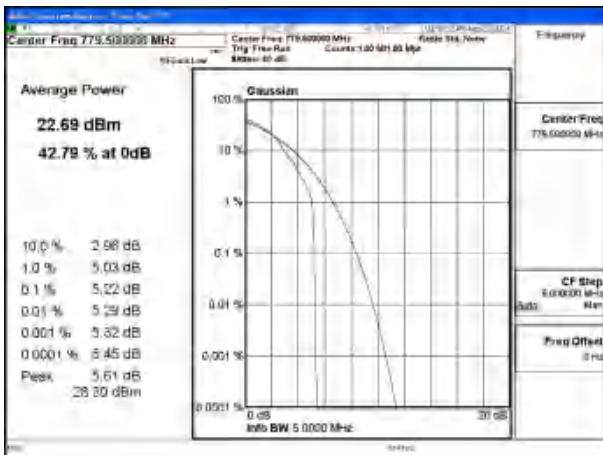


Fig.3

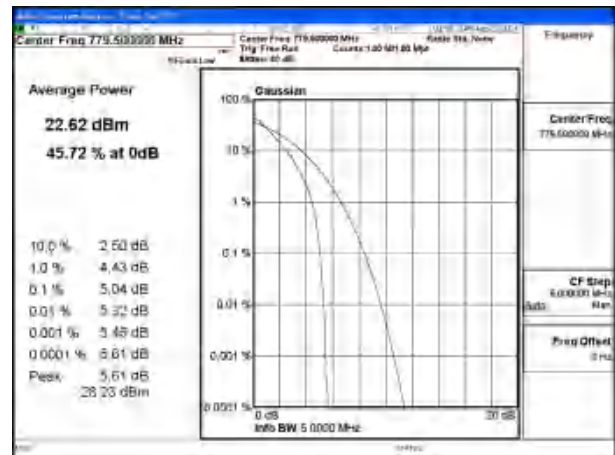


Fig.4

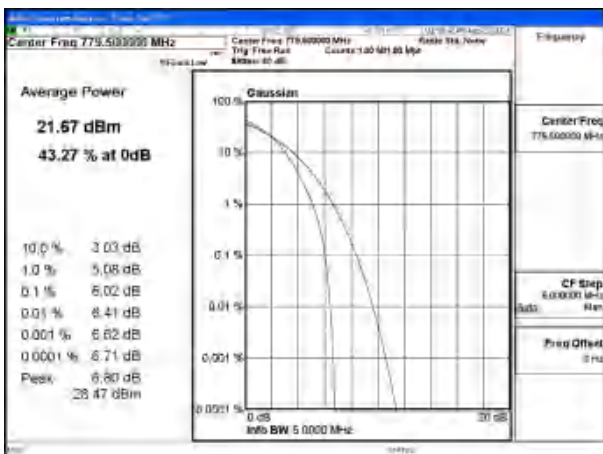


Fig.5

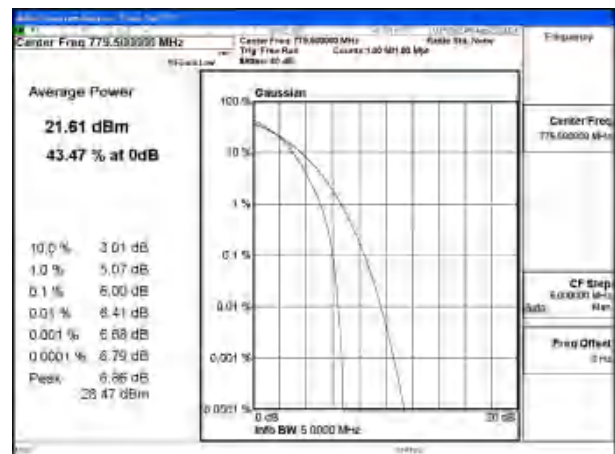


Fig.6

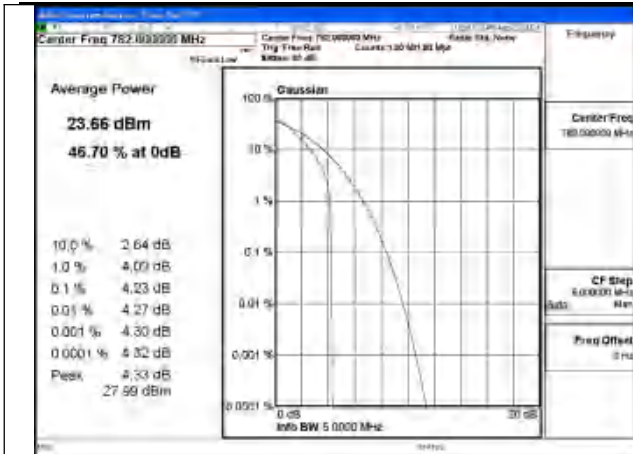


Fig.7

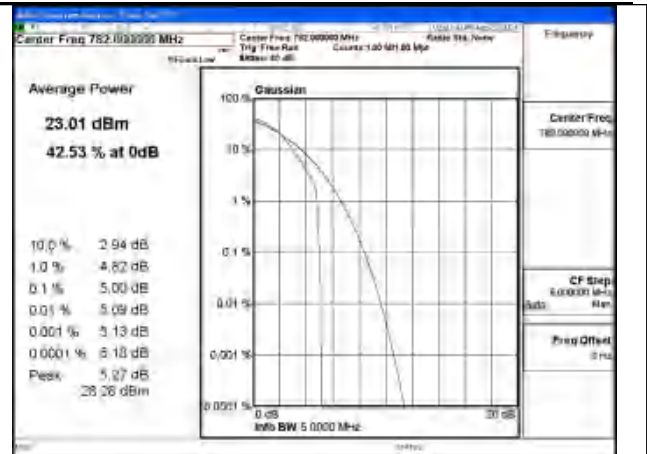


Fig.8

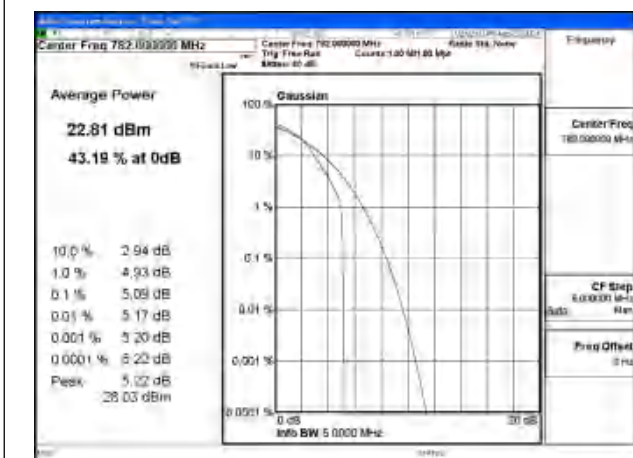


Fig.9

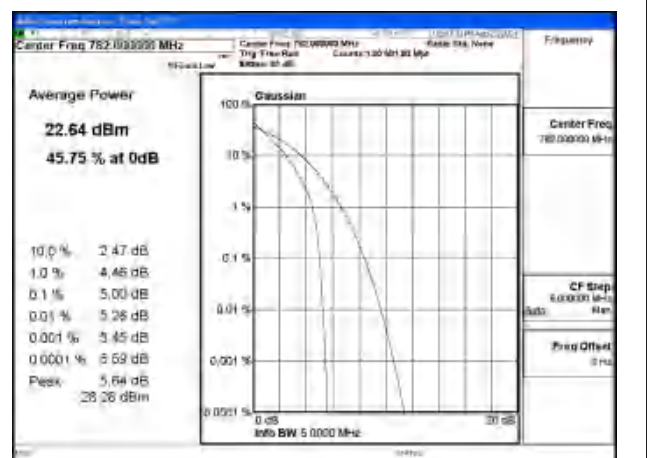


Fig.10

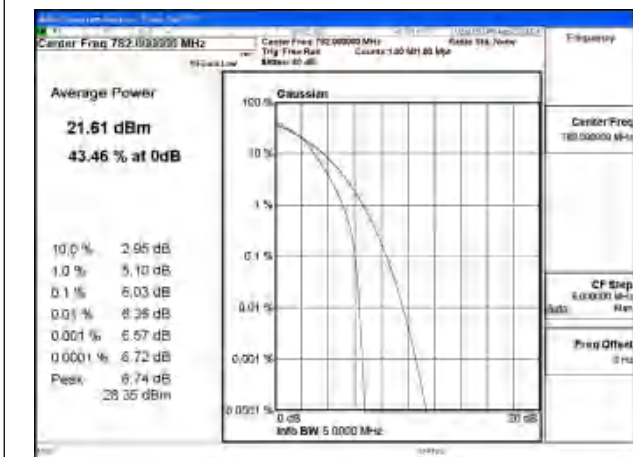


Fig.11

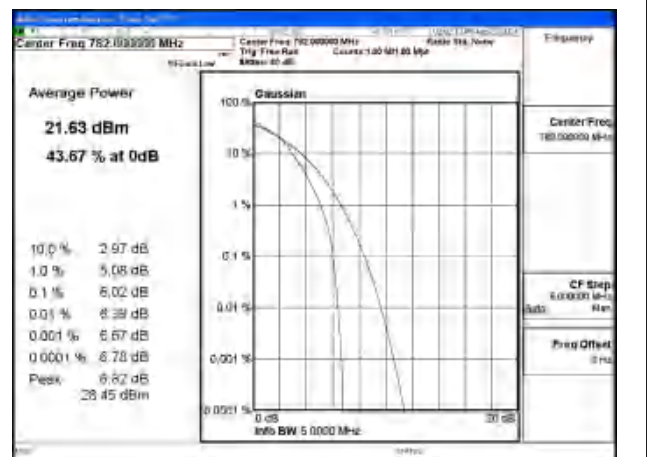


Fig.12

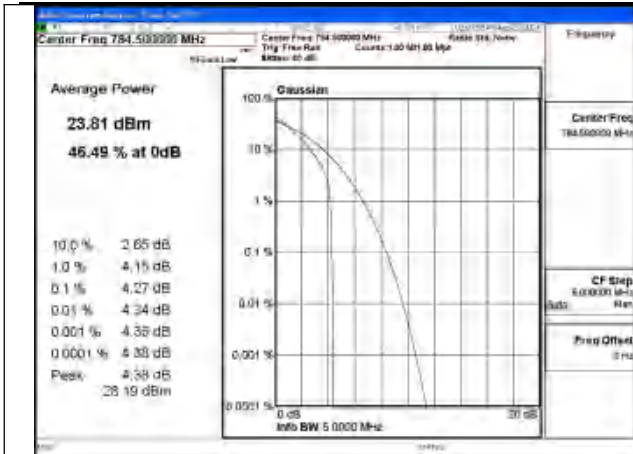


Fig.13

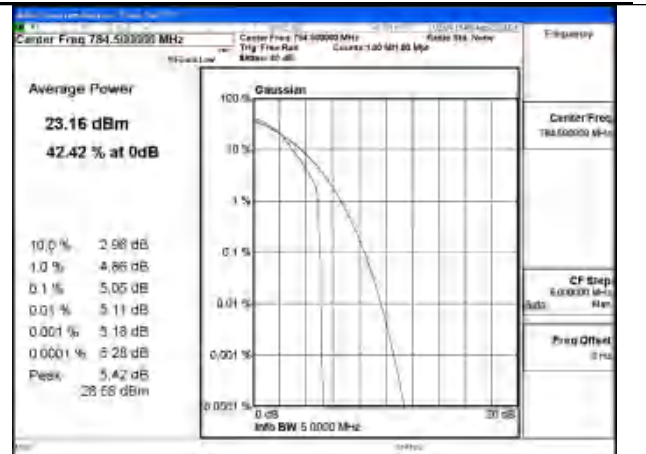


Fig.14

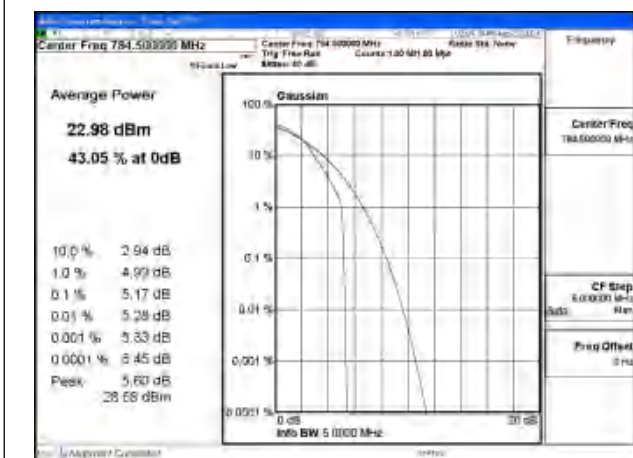


Fig.15

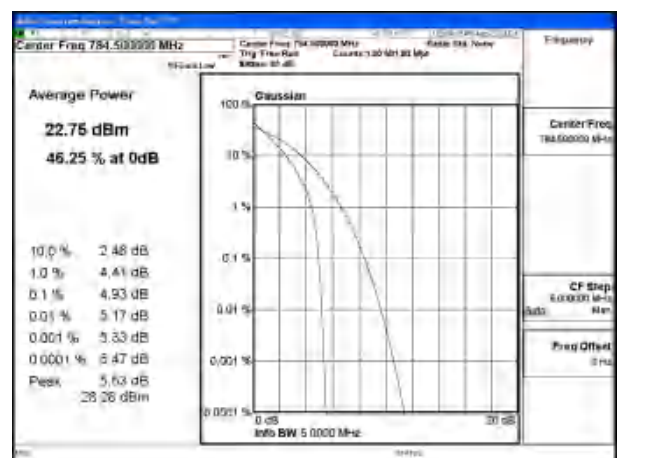


Fig.16

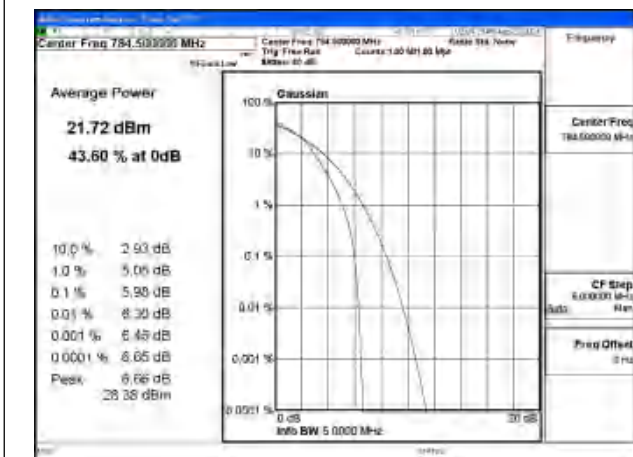


Fig.17

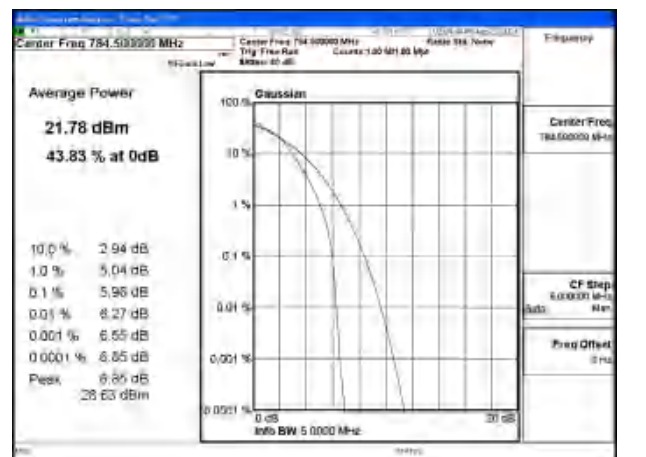


Fig.18

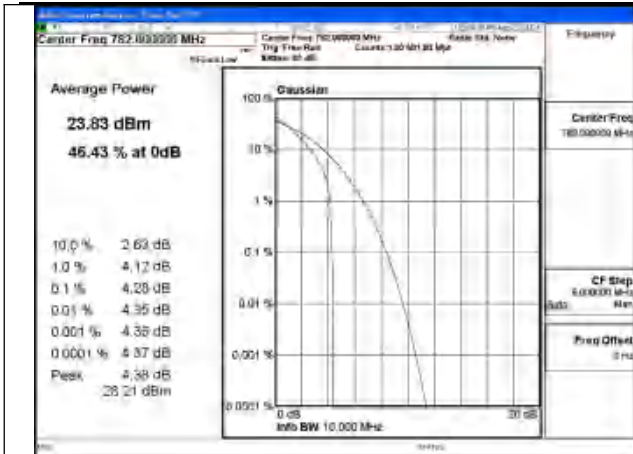


Fig.19

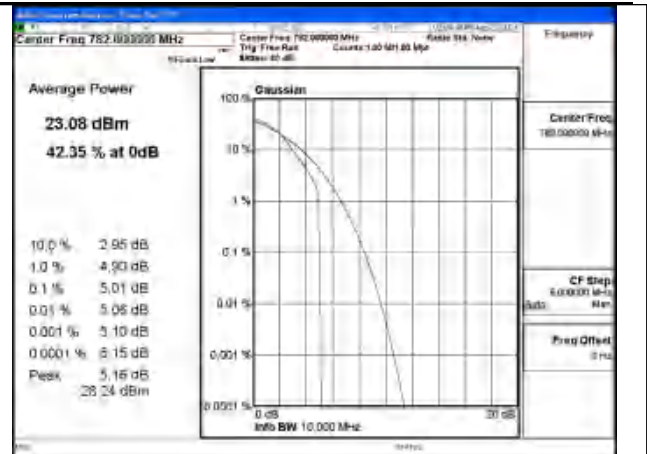


Fig.20

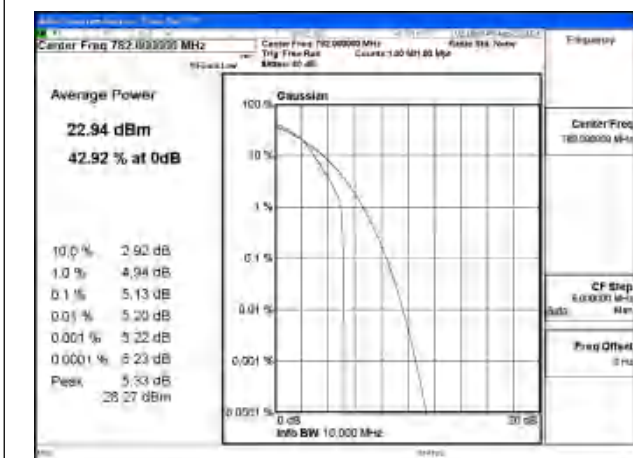


Fig.21

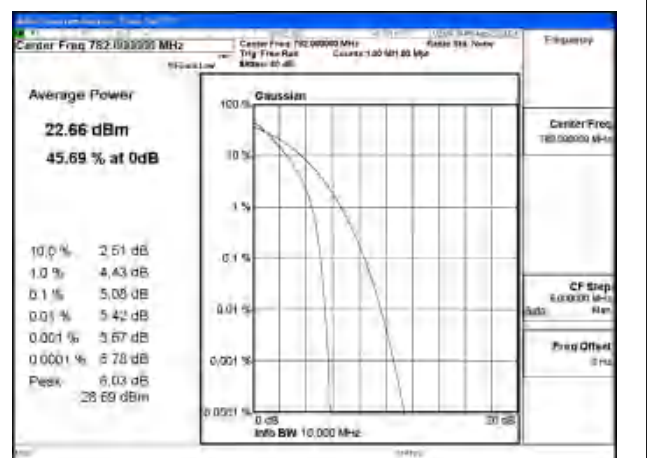


Fig.22

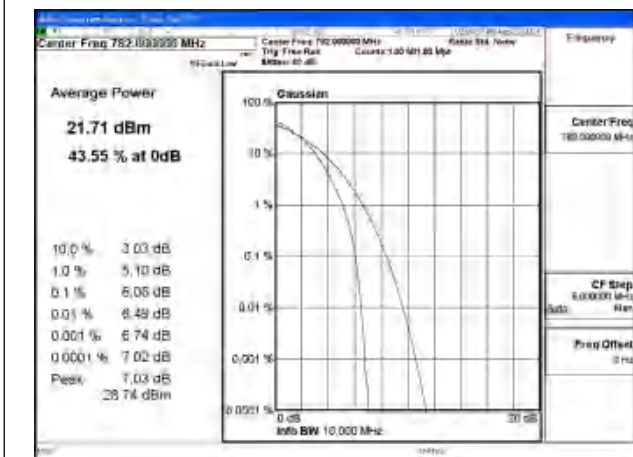


Fig.23

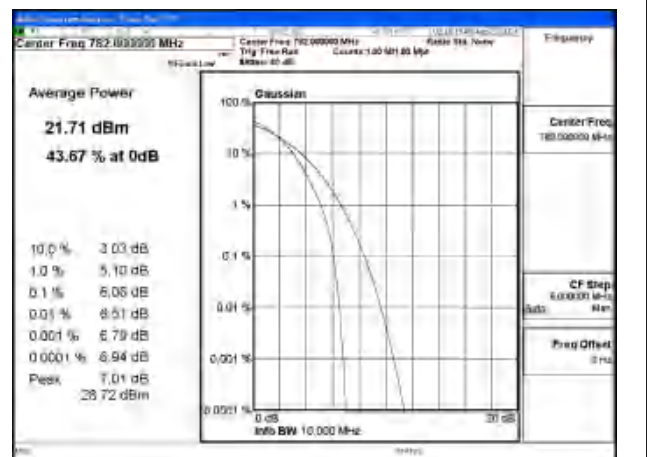
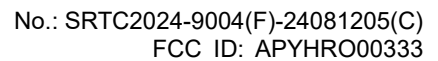


Fig.24



| Band | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Conducted Spurious Plot |
|------|-------------------------|---------|----|---------|-----------|-------------------------|
|      |                         |         |    |         |           | QPSK                    |
| 13   | 782                     | 23230   | 10 | 1       | 0         | Fig.1                   |
| 13   | 782                     | 23230   | 10 | 1       | 0         | Fig.2                   |
| 13   | 782                     | 23230   | 10 | 1       | 0         | Fig.3                   |

## 6 Band Edges Compliance

| Band | Mode | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Band Edges Plot |
|------|------|-------------------------|---------|----|---------|-----------|-----------------|
| 13   | QPSK | 779.5                   | 23205   | 5  | 1       | 0         | Fig.1           |
| 13   | QPSK | 779.5                   | 23205   | 5  | 1       | 0         | Fig.2           |
| 13   | QPSK | 779.5                   | 23205   | 5  | 25      | 0         | Fig.3           |
| 13   | QPSK | 779.5                   | 23205   | 5  | 25      | 0         | Fig.4           |
| 13   | QPSK | 784.5                   | 23255   | 5  | 1       | 24        | Fig.5           |
| 13   | QPSK | 784.5                   | 23255   | 5  | 1       | 24        | Fig.6           |
| 13   | QPSK | 784.5                   | 23255   | 5  | 25      | 0         | Fig.7           |
| 13   | QPSK | 784.5                   | 23255   | 5  | 25      | 0         | Fig.8           |
| 13   | QPSK | 782                     | 23230   | 10 | 1       | 0         | Fig.9           |
| 13   | QPSK | 782                     | 23230   | 10 | 1       | 0         | Fig.10          |
| 13   | QPSK | 782                     | 23230   | 10 | 50      | 0         | Fig.11          |
| 13   | QPSK | 782                     | 23230   | 10 | 1       | 49        | Fig.12          |
| 13   | QPSK | 782                     | 23230   | 10 | 1       | 49        | Fig.13          |
| 13   | QPSK | 782                     | 23230   | 10 | 50      | 0         | Fig.14          |
| 13   | QPSK | 782                     | 23230   | 10 | 50      | 0         | Fig.15          |

Test Mode: QPSK

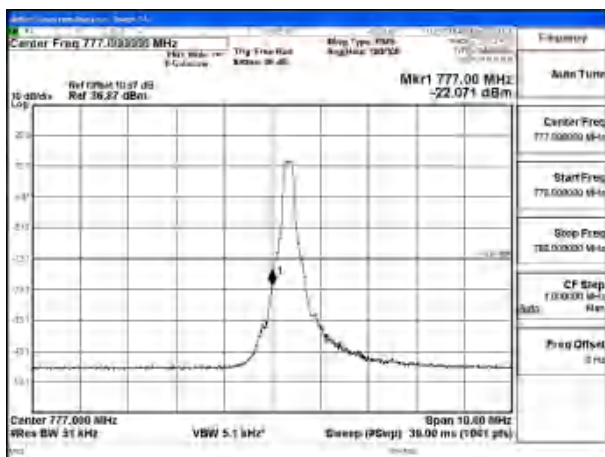


Fig.1

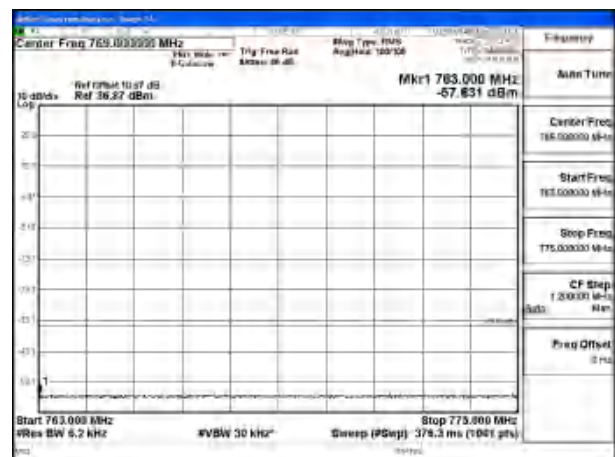


Fig.2

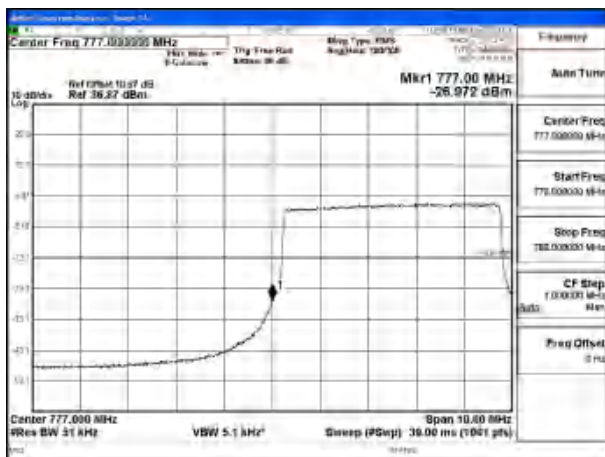


Fig.3

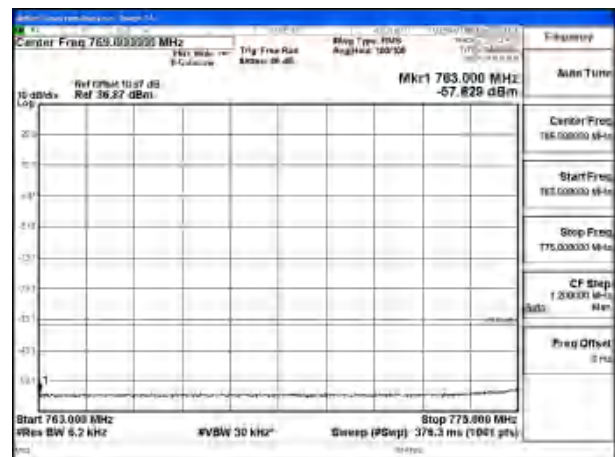


Fig.4

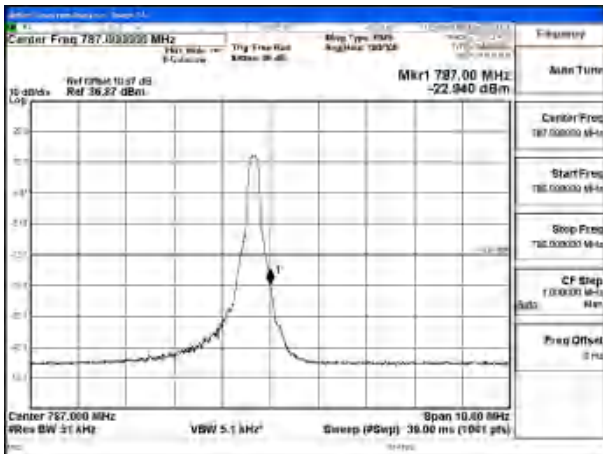


Fig.5

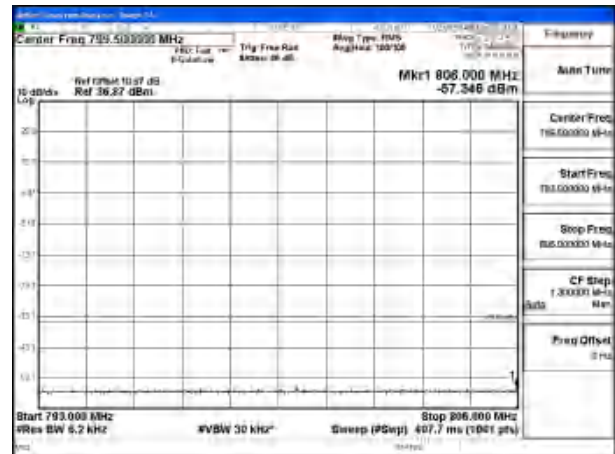


Fig.6

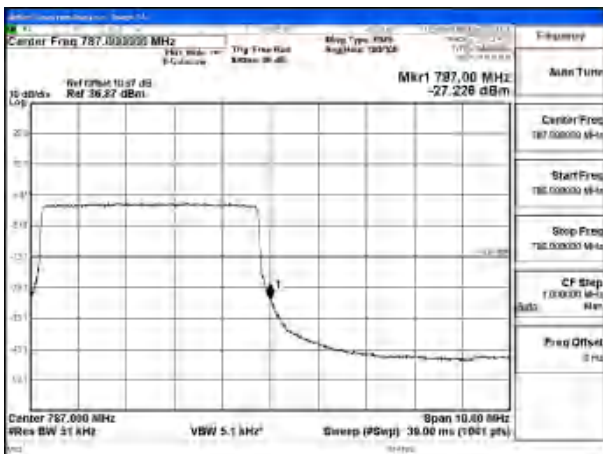


Fig.7

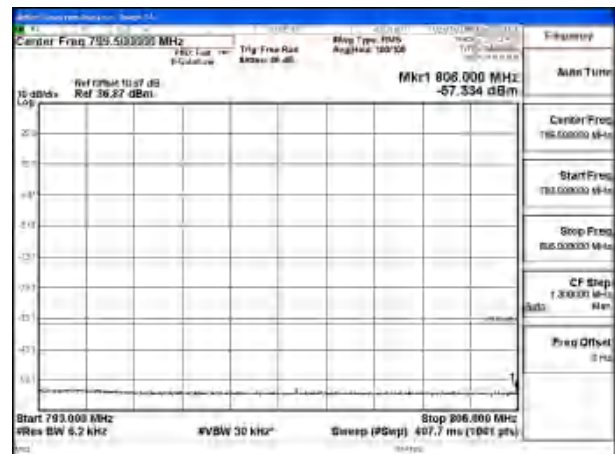


Fig.8

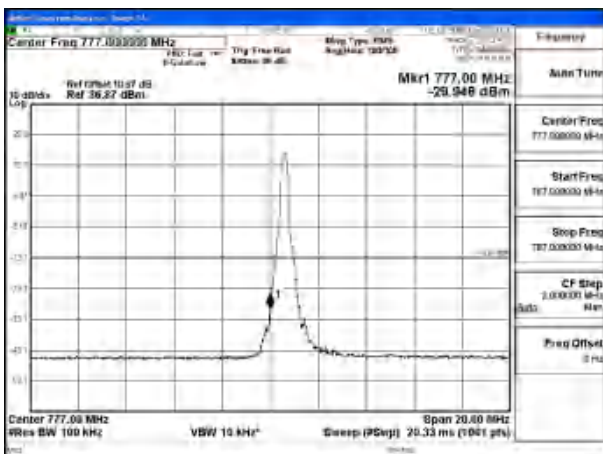


Fig.9

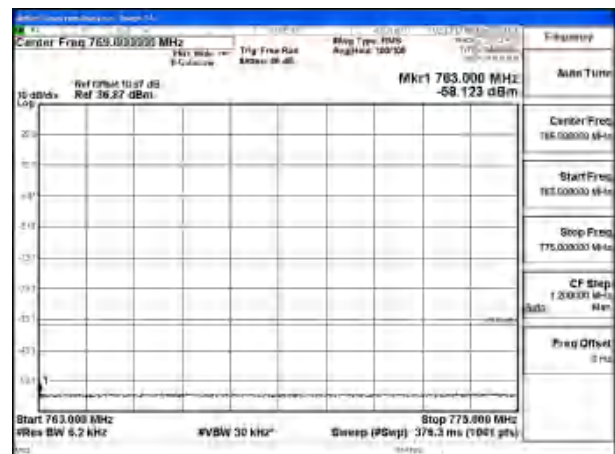
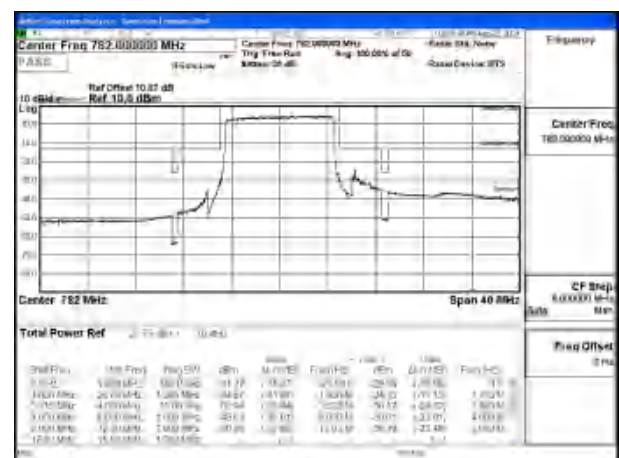
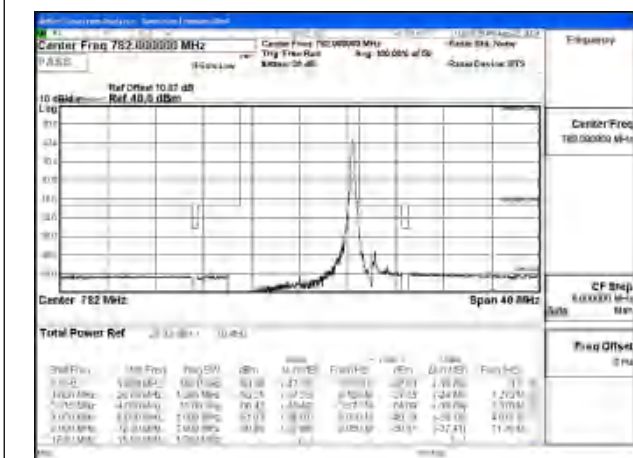
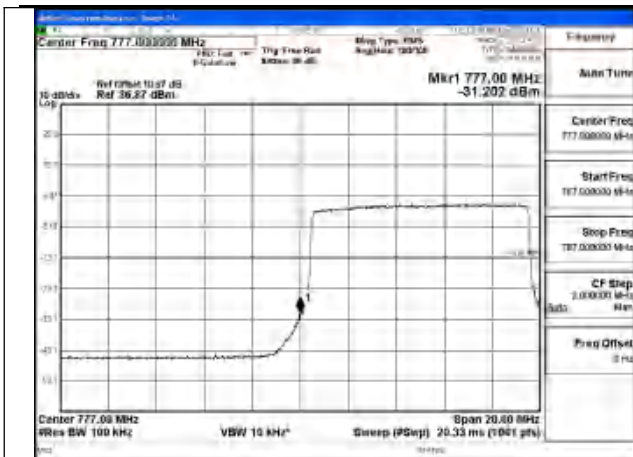
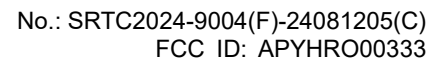


Fig.10





## 7 Frequency Stability

| Temperature(°C) | Voltage | Test Result (ppm) Band 13 Low Channel QPSK |       |
|-----------------|---------|--------------------------------------------|-------|
|                 |         | 5M                                         | 10M   |
| -10             | NV      | 0.006                                      | 0.008 |
| 0               | NV      | 0.006                                      | 0.005 |
| +10             | NV      | 0.010                                      | 0.008 |
| +20             | NV      | 0.008                                      | 0.005 |
| +30             | NV      | 0.014                                      | 0.009 |
| +40             | NV      | 0.006                                      | 0.005 |
| +55             | NV      | -0.005                                     | 0.004 |
| +20             | LV      | 0.008                                      | 0.006 |
| +20             | HV      | 0.005                                      | 0.006 |

| Temperature(°C) | Voltage | Test Result (ppm) Band 13 High Channel QPSK |        |
|-----------------|---------|---------------------------------------------|--------|
|                 |         | 5M                                          | 10M    |
| -10             | NV      | 0.003                                       | 0.005  |
| 0               | NV      | 0.005                                       | -0.017 |
| +10             | NV      | -0.005                                      | 0.008  |
| +20             | NV      | 0.004                                       | -0.009 |
| +30             | NV      | -0.018                                      | 0.009  |
| +40             | NV      | -0.019                                      | 0.006  |
| +55             | NV      | 0.006                                       | -0.006 |
| +20             | LV      | 0.007                                       | 0.002  |
| +20             | HV      | 0.008                                       | -0.009 |



**8 Effective Radiated Power and Effective Isotropic Radiated Power**

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|-----------------|---------------|
| QPSK       | 779.5                   | 23205      | 5  | 1       | 0         | 23.19                 | 17.54           | 0.057         |
| QPSK       | 779.5                   | 23205      | 5  | 1       | 12        | 23.47                 | 17.82           | 0.061         |
| QPSK       | 779.5                   | 23205      | 5  | 1       | 24        | 23.46                 | 17.81           | 0.060         |
| QPSK       | 779.5                   | 23205      | 5  | 12      | 0         | 22.35                 | 16.70           | 0.047         |
| QPSK       | 779.5                   | 23205      | 5  | 12      | 7         | 22.45                 | 16.80           | 0.048         |
| QPSK       | 779.5                   | 23205      | 5  | 12      | 13        | 22.42                 | 16.77           | 0.048         |
| QPSK       | 779.5                   | 23205      | 5  | 25      | 0         | 22.46                 | 16.81           | 0.048         |
| QPSK       | 782                     | 23230      | 5  | 1       | 0         | 23.62                 | 17.97           | 0.063         |
| QPSK       | 782                     | 23230      | 5  | 1       | 12        | 23.43                 | 17.78           | 0.060         |
| QPSK       | 782                     | 23230      | 5  | 1       | 24        | 23.38                 | 17.73           | 0.059         |
| QPSK       | 782                     | 23230      | 5  | 12      | 0         | 22.34                 | 16.69           | 0.047         |
| QPSK       | 782                     | 23230      | 5  | 12      | 7         | 22.37                 | 16.72           | 0.047         |
| QPSK       | 782                     | 23230      | 5  | 12      | 13        | 22.36                 | 16.71           | 0.047         |
| QPSK       | 782                     | 23230      | 5  | 25      | 0         | 22.35                 | 16.70           | 0.047         |
| QPSK       | 784.5                   | 23255      | 5  | 1       | 0         | 23.45                 | 17.80           | 0.060         |
| QPSK       | 784.5                   | 23255      | 5  | 1       | 12        | 23.44                 | 17.79           | 0.060         |
| QPSK       | 784.5                   | 23255      | 5  | 1       | 24        | 23.45                 | 17.80           | 0.060         |
| QPSK       | 784.5                   | 23255      | 5  | 12      | 0         | 22.35                 | 16.70           | 0.047         |
| QPSK       | 784.5                   | 23255      | 5  | 12      | 7         | 22.50                 | 16.85           | 0.048         |
| QPSK       | 784.5                   | 23255      | 5  | 12      | 13        | 22.53                 | 16.88           | 0.049         |
| QPSK       | 784.5                   | 23255      | 5  | 25      | 0         | 22.49                 | 16.84           | 0.048         |



| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|-----------------|---------------|
| 16QAM      | 779.5                   | 23205      | 5  | 1       | 0         | 22.63                 | 16.98           | 0.050         |
| 16QAM      | 779.5                   | 23205      | 5  | 1       | 12        | 22.70                 | 17.05           | 0.051         |
| 16QAM      | 779.5                   | 23205      | 5  | 1       | 24        | 22.58                 | 16.93           | 0.049         |
| 16QAM      | 779.5                   | 23205      | 5  | 12      | 0         | 21.42                 | 15.77           | 0.038         |
| 16QAM      | 779.5                   | 23205      | 5  | 12      | 7         | 21.54                 | 15.89           | 0.039         |
| 16QAM      | 779.5                   | 23205      | 5  | 12      | 13        | 21.43                 | 15.78           | 0.038         |
| 16QAM      | 779.5                   | 23205      | 5  | 25      | 0         | 21.24                 | 15.59           | 0.036         |
| 16QAM      | 782                     | 23230      | 5  | 1       | 0         | 23.12                 | 17.47           | 0.056         |
| 16QAM      | 782                     | 23230      | 5  | 1       | 12        | 22.38                 | 16.73           | 0.047         |
| 16QAM      | 782                     | 23230      | 5  | 1       | 24        | 22.90                 | 17.25           | 0.053         |
| 16QAM      | 782                     | 23230      | 5  | 12      | 0         | 21.41                 | 15.76           | 0.038         |
| 16QAM      | 782                     | 23230      | 5  | 12      | 7         | 21.39                 | 15.74           | 0.037         |
| 16QAM      | 782                     | 23230      | 5  | 12      | 13        | 21.42                 | 15.77           | 0.038         |
| 16QAM      | 782                     | 23230      | 5  | 25      | 0         | 21.31                 | 15.66           | 0.037         |
| 16QAM      | 784.5                   | 23255      | 5  | 1       | 0         | 22.47                 | 16.82           | 0.048         |
| 16QAM      | 784.5                   | 23255      | 5  | 1       | 12        | 22.88                 | 17.23           | 0.053         |
| 16QAM      | 784.5                   | 23255      | 5  | 1       | 24        | 22.69                 | 17.04           | 0.051         |
| 16QAM      | 784.5                   | 23255      | 5  | 12      | 0         | 21.29                 | 15.64           | 0.037         |
| 16QAM      | 784.5                   | 23255      | 5  | 12      | 7         | 21.66                 | 16.01           | 0.040         |
| 16QAM      | 784.5                   | 23255      | 5  | 12      | 13        | 21.65                 | 16.00           | 0.040         |
| 16QAM      | 784.5                   | 23255      | 5  | 25      | 0         | 21.44                 | 15.79           | 0.038         |
| 64QAM      | 779.5                   | 23205      | 5  | 1       | 0         | 22.13                 | 16.48           | 0.044         |
| 64QAM      | 779.5                   | 23205      | 5  | 1       | 12        | 22.64                 | 16.99           | 0.050         |
| 64QAM      | 779.5                   | 23205      | 5  | 1       | 24        | 22.74                 | 17.09           | 0.051         |
| 64QAM      | 779.5                   | 23205      | 5  | 12      | 0         | 21.34                 | 15.69           | 0.037         |
| 64QAM      | 779.5                   | 23205      | 5  | 12      | 7         | 21.50                 | 15.85           | 0.038         |
| 64QAM      | 779.5                   | 23205      | 5  | 12      | 13        | 21.44                 | 15.79           | 0.038         |
| 64QAM      | 779.5                   | 23205      | 5  | 25      | 0         | 21.46                 | 15.81           | 0.038         |
| 64QAM      | 782                     | 23230      | 5  | 1       | 0         | 22.92                 | 17.27           | 0.053         |
| 64QAM      | 782                     | 23230      | 5  | 1       | 12        | 22.47                 | 16.82           | 0.048         |
| 64QAM      | 782                     | 23230      | 5  | 1       | 24        | 22.38                 | 16.73           | 0.047         |
| 64QAM      | 782                     | 23230      | 5  | 12      | 0         | 21.38                 | 15.73           | 0.037         |
| 64QAM      | 782                     | 23230      | 5  | 12      | 7         | 21.42                 | 15.77           | 0.038         |
| 64QAM      | 782                     | 23230      | 5  | 12      | 13        | 21.47                 | 15.82           | 0.038         |
| 64QAM      | 782                     | 23230      | 5  | 25      | 0         | 21.28                 | 15.63           | 0.037         |
| 64QAM      | 784.5                   | 23255      | 5  | 1       | 0         | 22.39                 | 16.74           | 0.047         |
| 64QAM      | 784.5                   | 23255      | 5  | 1       | 12        | 22.59                 | 16.94           | 0.049         |
| 64QAM      | 784.5                   | 23255      | 5  | 1       | 24        | 22.87                 | 17.22           | 0.053         |
| 64QAM      | 784.5                   | 23255      | 5  | 12      | 0         | 21.45                 | 15.80           | 0.038         |
| 64QAM      | 784.5                   | 23255      | 5  | 12      | 7         | 21.46                 | 15.81           | 0.038         |
| 64QAM      | 784.5                   | 23255      | 5  | 12      | 13        | 21.63                 | 15.98           | 0.040         |
| 64QAM      | 784.5                   | 23255      | 5  | 25      | 0         | 21.44                 | 15.79           | 0.038         |



| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|-----------------|---------------|
| QPSK       | 782                     | 23230      | 10 | 1       | 0         | 23.38                 | 17.73           | 0.059         |
| QPSK       | 782                     | 23230      | 10 | 1       | 25        | 23.47                 | 17.82           | 0.061         |
| QPSK       | 782                     | 23230      | 10 | 1       | 49        | 23.53                 | 17.88           | 0.061         |
| QPSK       | 782                     | 23230      | 10 | 25      | 0         | 22.32                 | 16.67           | 0.046         |
| QPSK       | 782                     | 23230      | 10 | 25      | 12        | 22.53                 | 16.88           | 0.049         |
| QPSK       | 782                     | 23230      | 10 | 25      | 25        | 22.53                 | 16.88           | 0.049         |
| QPSK       | 782                     | 23230      | 10 | 50      | 0         | 22.39                 | 16.74           | 0.047         |
| QPSK       | 782                     | 23230      | 10 | 1       | 0         | 23.33                 | 17.68           | 0.059         |
| QPSK       | 782                     | 23230      | 10 | 1       | 25        | 23.30                 | 17.65           | 0.058         |
| QPSK       | 782                     | 23230      | 10 | 1       | 49        | 23.59                 | 17.94           | 0.062         |
| QPSK       | 782                     | 23230      | 10 | 25      | 0         | 22.44                 | 16.79           | 0.048         |
| QPSK       | 782                     | 23230      | 10 | 25      | 12        | 22.40                 | 16.75           | 0.047         |
| QPSK       | 782                     | 23230      | 10 | 25      | 25        | 22.54                 | 16.89           | 0.049         |
| QPSK       | 782                     | 23230      | 10 | 50      | 0         | 22.47                 | 16.82           | 0.048         |
| QPSK       | 782                     | 23230      | 10 | 1       | 0         | 23.36                 | 17.71           | 0.059         |
| QPSK       | 782                     | 23230      | 10 | 1       | 25        | 23.44                 | 17.79           | 0.060         |
| QPSK       | 782                     | 23230      | 10 | 1       | 49        | 23.53                 | 17.88           | 0.061         |
| QPSK       | 782                     | 23230      | 10 | 25      | 0         | 22.50                 | 16.85           | 0.048         |
| QPSK       | 782                     | 23230      | 10 | 25      | 12        | 22.50                 | 16.85           | 0.048         |
| QPSK       | 782                     | 23230      | 10 | 25      | 25        | 22.54                 | 16.89           | 0.049         |
| QPSK       | 782                     | 23230      | 10 | 50      | 0         | 22.46                 | 16.81           | 0.048         |



| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|-----------------|---------------|
| 16QAM      | 782                     | 23230      | 10 | 1       | 0         | 22.69                 | 17.04           | 0.051         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 25        | 23.09                 | 17.44           | 0.055         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 49        | 23.09                 | 17.44           | 0.055         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 0         | 21.49                 | 15.84           | 0.038         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 12        | 21.41                 | 15.76           | 0.038         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 25        | 21.50                 | 15.85           | 0.038         |
| 16QAM      | 782                     | 23230      | 10 | 50      | 0         | 21.63                 | 15.98           | 0.040         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 0         | 22.57                 | 16.92           | 0.049         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 25        | 22.27                 | 16.62           | 0.046         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 49        | 22.92                 | 17.27           | 0.053         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 0         | 21.50                 | 15.85           | 0.038         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 12        | 21.47                 | 15.82           | 0.038         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 25        | 21.48                 | 15.83           | 0.038         |
| 16QAM      | 782                     | 23230      | 10 | 50      | 0         | 21.31                 | 15.66           | 0.037         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 0         | 22.82                 | 17.17           | 0.052         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 25        | 23.25                 | 17.60           | 0.058         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 49        | 22.81                 | 17.16           | 0.052         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 0         | 21.38                 | 15.73           | 0.037         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 12        | 21.41                 | 15.76           | 0.038         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 25        | 21.67                 | 16.02           | 0.040         |
| 16QAM      | 782                     | 23230      | 10 | 50      | 0         | 21.31                 | 15.66           | 0.037         |
| 64QAM      | 782                     | 23230      | 10 | 1       | 0         | 22.44                 | 16.79           | 0.048         |
| 64QAM      | 782                     | 23230      | 10 | 1       | 25        | 22.62                 | 16.97           | 0.050         |
| 64QAM      | 782                     | 23230      | 10 | 1       | 49        | 22.78                 | 17.13           | 0.052         |
| 64QAM      | 782                     | 23230      | 10 | 25      | 0         | 21.44                 | 15.79           | 0.038         |
| 64QAM      | 782                     | 23230      | 10 | 25      | 12        | 21.28                 | 15.63           | 0.037         |
| 64QAM      | 782                     | 23230      | 10 | 25      | 25        | 21.40                 | 15.75           | 0.038         |
| 64QAM      | 782                     | 23230      | 10 | 50      | 0         | 21.34                 | 15.69           | 0.037         |
| 64QAM      | 782                     | 23230      | 10 | 1       | 0         | 21.52                 | 15.87           | 0.039         |
| 64QAM      | 782                     | 23230      | 10 | 1       | 25        | 21.57                 | 15.92           | 0.039         |
| 64QAM      | 782                     | 23230      | 10 | 1       | 49        | 21.68                 | 16.03           | 0.040         |
| 64QAM      | 782                     | 23230      | 10 | 25      | 0         | 20.47                 | 14.82           | 0.030         |
| 64QAM      | 782                     | 23230      | 10 | 25      | 12        | 20.58                 | 14.93           | 0.031         |
| 64QAM      | 782                     | 23230      | 10 | 25      | 25        | 20.51                 | 14.86           | 0.031         |
| 64QAM      | 782                     | 23230      | 10 | 50      | 0         | 20.37                 | 14.72           | 0.030         |
| 64QAM      | 782                     | 23230      | 10 | 1       | 0         | 21.98                 | 16.33           | 0.043         |
| 64QAM      | 782                     | 23230      | 10 | 1       | 25        | 21.34                 | 15.69           | 0.037         |
| 64QAM      | 782                     | 23230      | 10 | 1       | 49        | 21.75                 | 16.10           | 0.041         |
| 64QAM      | 782                     | 23230      | 10 | 25      | 0         | 20.47                 | 14.82           | 0.030         |
| 64QAM      | 782                     | 23230      | 10 | 25      | 12        | 20.37                 | 14.72           | 0.030         |
| 64QAM      | 782                     | 23230      | 10 | 25      | 25        | 20.57                 | 14.92           | 0.031         |
| 64QAM      | 782                     | 23230      | 10 | 50      | 0         | 20.43                 | 14.78           | 0.030         |