

Fig.19

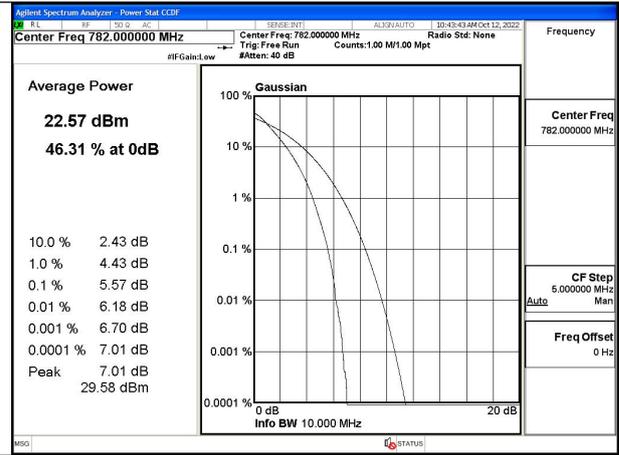


Fig.20

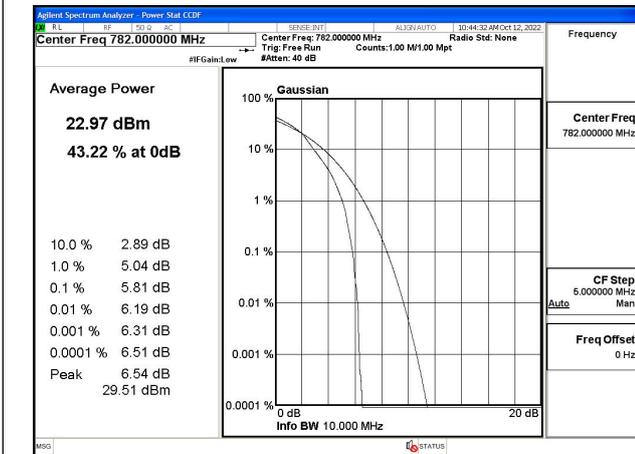


Fig.21

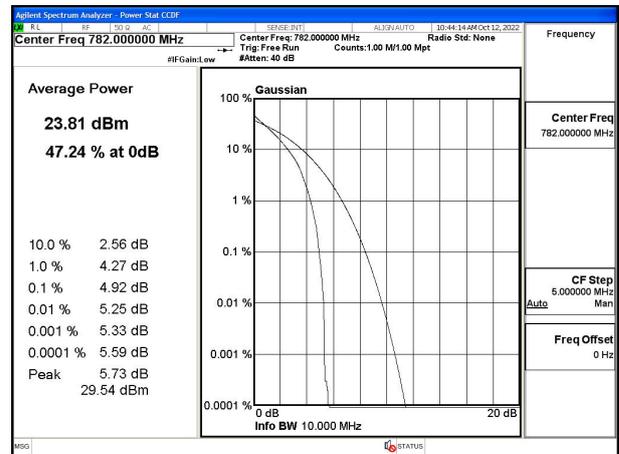


Fig.22

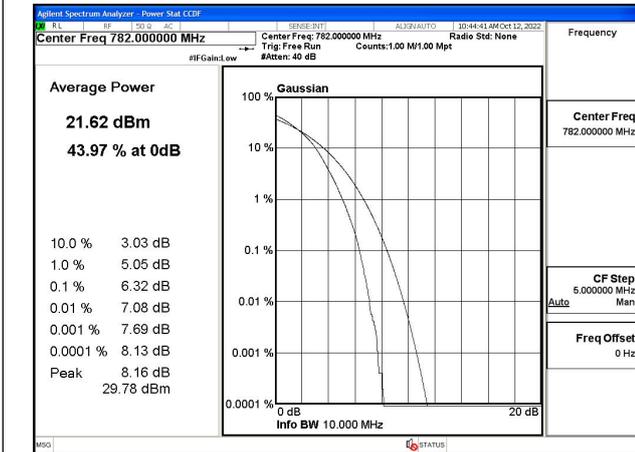


Fig.23

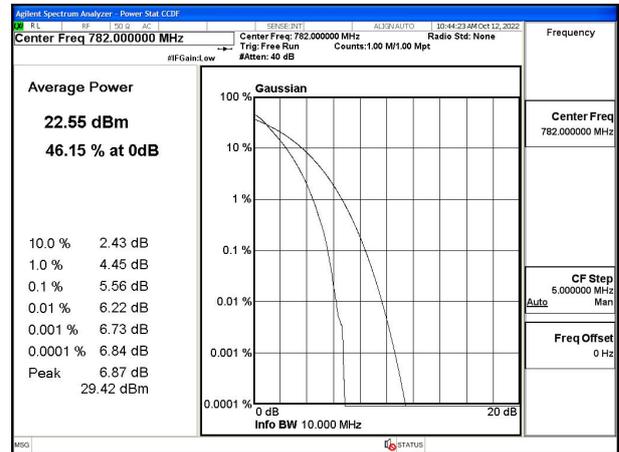


Fig.24

**5 Spurious Emissions at antenna terminal**

| 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                   |

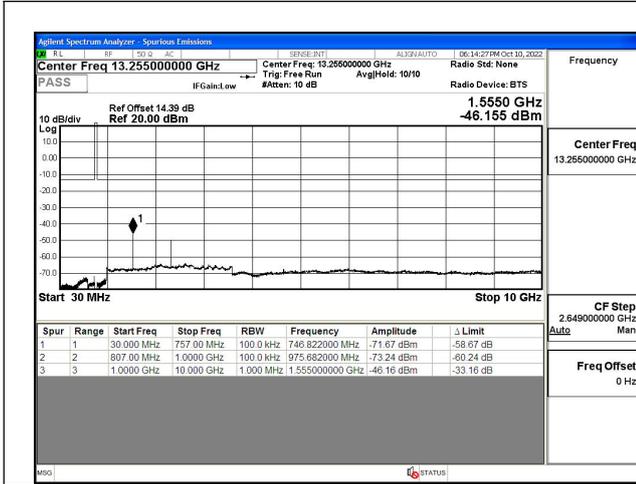


Fig.1

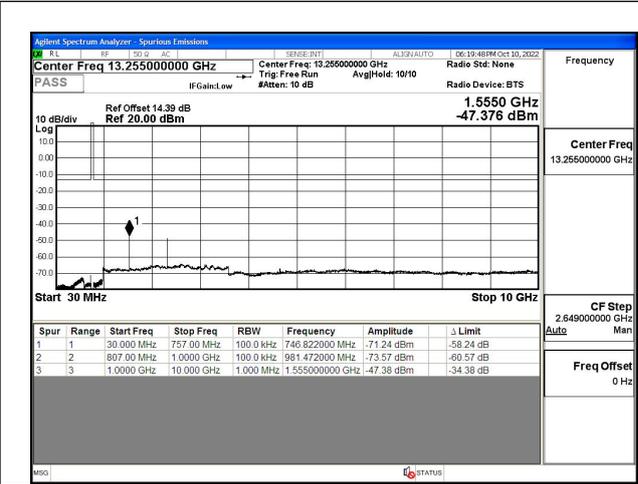


Fig.2

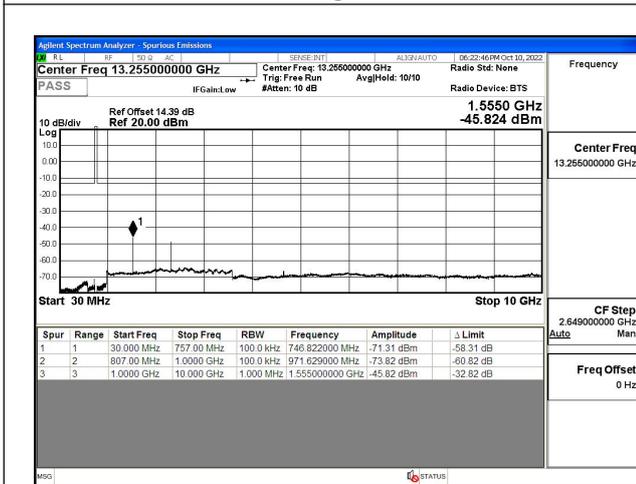


Fig.3

**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 | 50      | 0         | Fig.12          |
| 13   | QPSK | 782                     | 23230   | 10 | 1       | 49        | Fig.13          |
| 13   | QPSK | 782                     | 23230   | 10 | 1       | 49        | Fig.14          |
| 13   | QPSK | 782                     | 23230   | 10 | 50      | 0         | Fig.15          |
| 13   | QPSK | 782                     | 23230   | 10 | 50      | 0         | Fig.16          |

Test Mode: QPSK

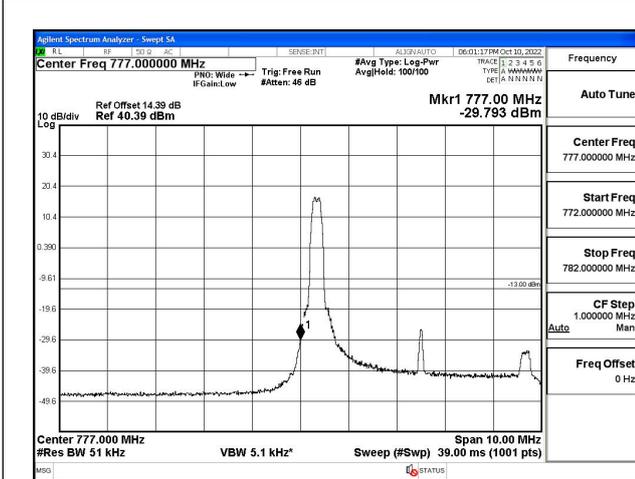


Fig.1

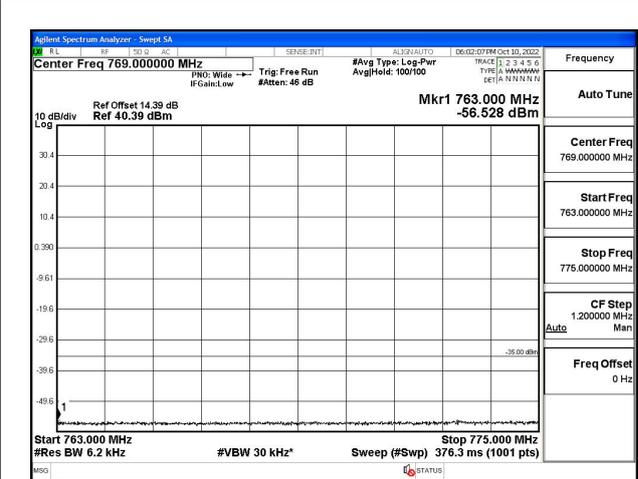


Fig.2

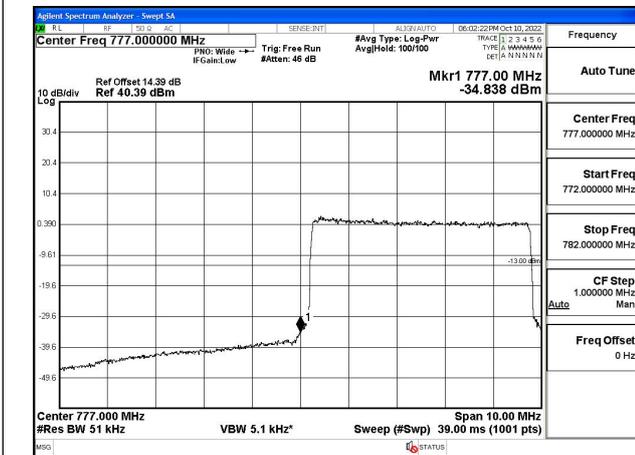


Fig.3

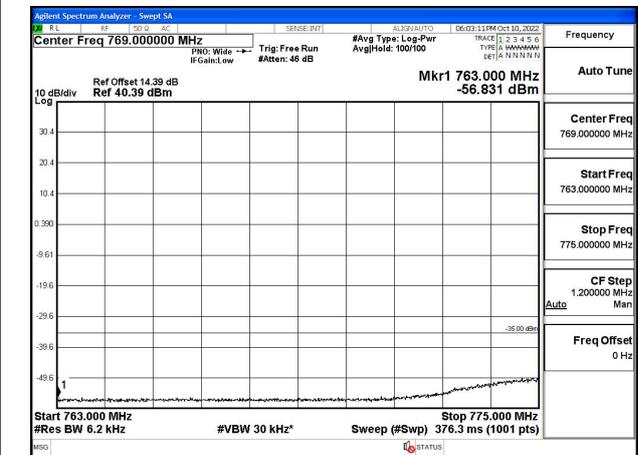


Fig.4

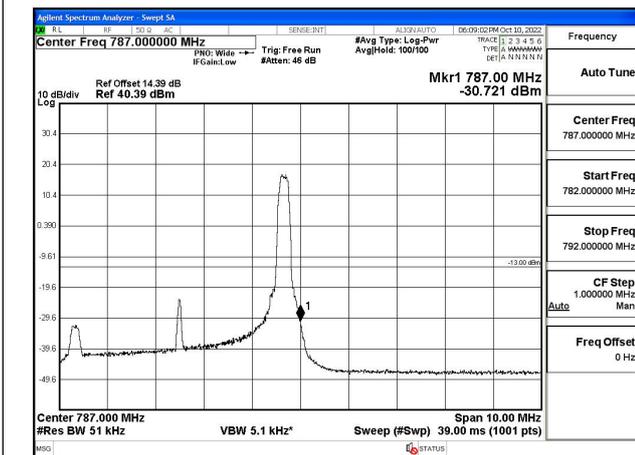


Fig.5

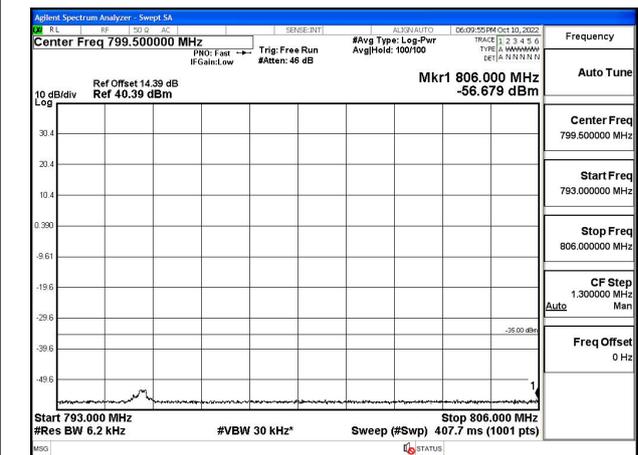


Fig.6

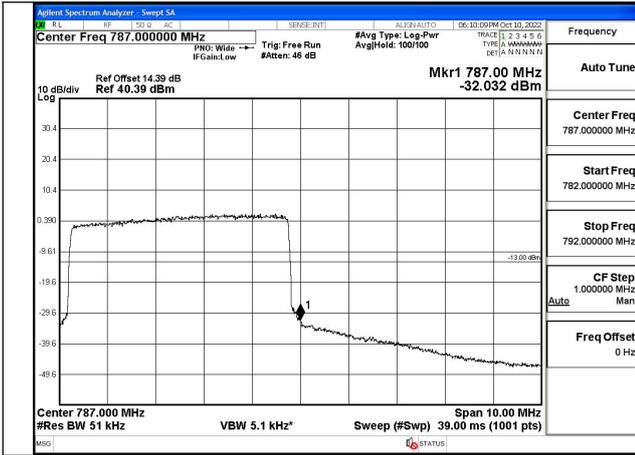


Fig.7

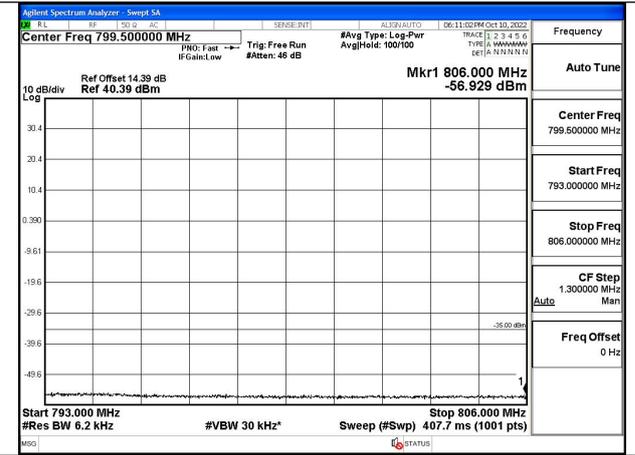


Fig.8

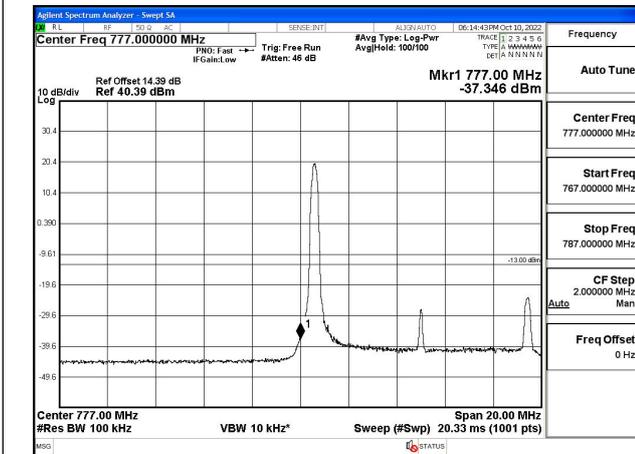


Fig.9

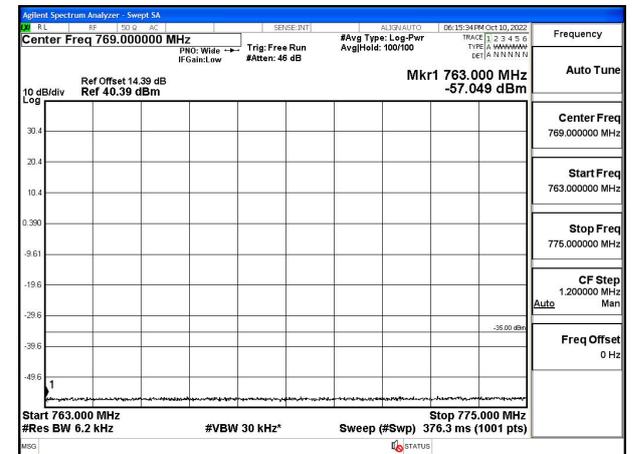


Fig.10

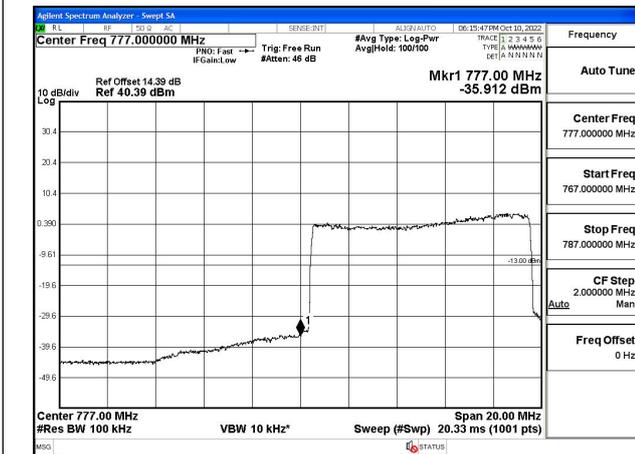


Fig.11

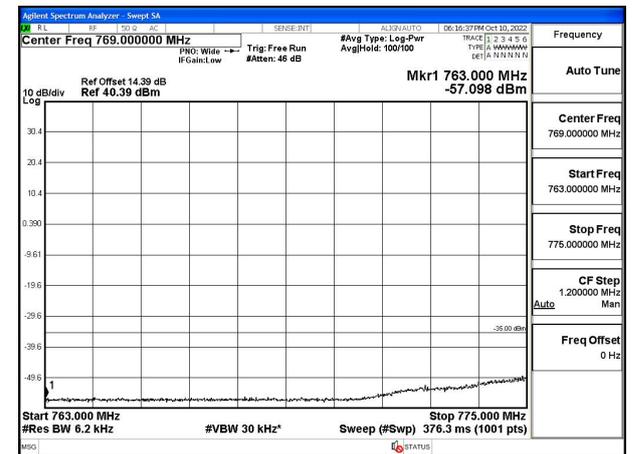


Fig.12

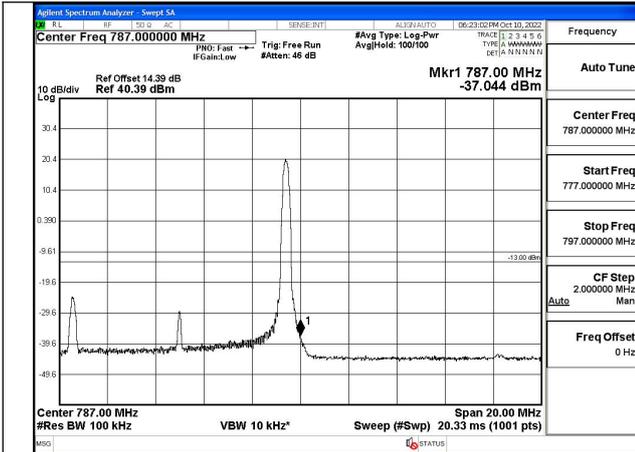


Fig. 13

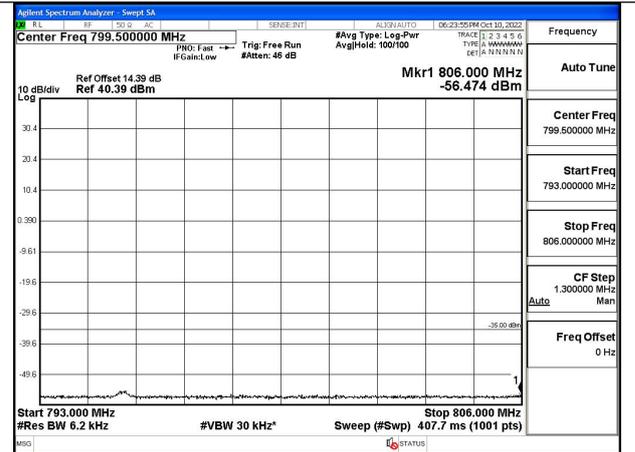


Fig. 14

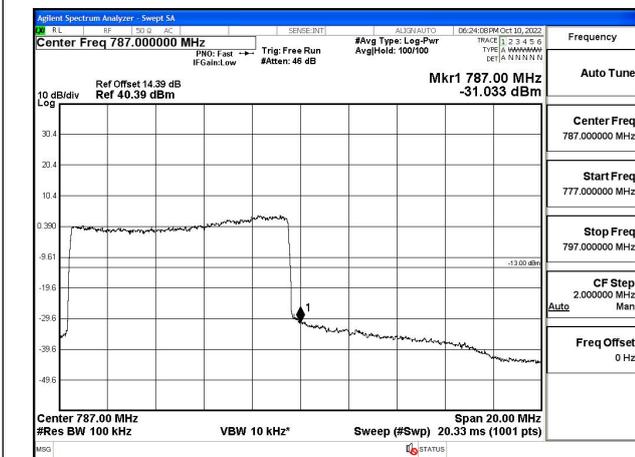


Fig. 15

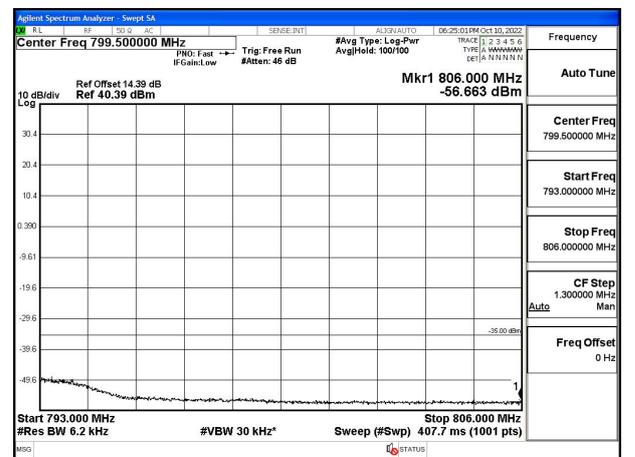


Fig. 16

## 7 Frequency Stability

| Temperature(°C) | Voltage | Test Result (ppm) Band 13 Low Channel QPSK |        |
|-----------------|---------|--|--------|
|                 |         | 5M   | 10M    |
| -20             | NV      | 0.005                                      | -0.001 |
| -10             | NV      | 0.005                                      | 0.004  |
| 0               | NV      | 0.011                                      | -0.005 |
| +10             | NV      | 0.014                                      | 0.008  |
| +20             | NV      | 0.006                                      | 0.006  |
| +30             | NV      | -0.006                                     | 0.009  |
| +40             | NV      | -0.004                                     | 0.010  |
| +50             | NV      | 0.003                                      | 0.004  |
| +60             | NV      | 0.001                                      | 0.007  |
| +20             | LV      | -0.003                                     | 0.000  |
| +20             | HV      | 0.006                                      | 0.007  |

| Temperature(°C) | Voltage | Test Result (ppm) Band 13 High Channel QPSK |        |
|-----------------|---------|---|--------|
|                 |         | 5M  | 10M    |
| -20             | NV      | -0.010                                      | -0.002 |
| -10             | NV      | -0.002                                      | 0.005  |
| 0               | NV      | -0.004                                      | -0.011 |
| +10             | NV      | -0.008                                      | 0.007  |
| +20             | NV      | -0.006                                      | -0.001 |
| +30             | NV      | -0.009                                      | 0.006  |
| +40             | NV      | -0.006                                      | 0.008  |
| +50             | NV      | 0.004                                       | 0.005  |
| +60             | NV      | 0.001                                       | 0.013  |
| +20             | LV      | -0.010                                      | 0.007  |
| +20             | HV      | -0.011                                      | -0.002 |

### 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         | 23.17                 | 17.37           | 0.055         |
| QPSK       | 779.5                   | 23205      | 5  | 1       | 12        | 23.15                 | 17.35           | 0.054         |
| QPSK       | 779.5                   | 23205      | 5  | 1       | 24        | 22.99                 | 17.19           | 0.052         |
| QPSK       | 779.5                   | 23205      | 5  | 12      | 0         | 22.46                 | 16.66           | 0.046         |
| QPSK       | 779.5                   | 23205      | 5  | 12      | 7         | 22.35                 | 16.55           | 0.045         |
| QPSK       | 779.5                   | 23205      | 5  | 12      | 13        | 22.22                 | 16.42           | 0.044         |
| QPSK       | 779.5                   | 23205      | 5  | 25      | 0         | 22.34                 | 16.54           | 0.045         |
| QPSK       | 782                     | 23230      | 5  | 1       | 0         | 23.23                 | 17.43           | 0.055         |
| QPSK       | 782                     | 23230      | 5  | 1       | 12        | 23.01                 | 17.21           | 0.053         |
| QPSK       | 782                     | 23230      | 5  | 1       | 24        | 23.39                 | 17.59           | 0.057         |
| QPSK       | 782                     | 23230      | 5  | 12      | 0         | 22.19                 | 16.39           | 0.044         |
| QPSK       | 782                     | 23230      | 5  | 12      | 7         | 22.33                 | 16.53           | 0.045         |
| QPSK       | 782                     | 23230      | 5  | 12      | 13        | 22.26                 | 16.46           | 0.044         |
| QPSK       | 782                     | 23230      | 5  | 25      | 0         | 22.24                 | 16.44           | 0.044         |
| QPSK       | 784.5                   | 23255      | 5  | 1       | 0         | 23.10                 | 17.30           | 0.054         |
| QPSK       | 784.5                   | 23255      | 5  | 1       | 12        | 23.28                 | 17.48           | 0.056         |
| QPSK       | 784.5                   | 23255      | 5  | 1       | 24        | 23.31                 | 17.51           | 0.056         |
| QPSK       | 784.5                   | 23255      | 5  | 12      | 0         | 22.35                 | 16.55           | 0.045         |
| QPSK       | 784.5                   | 23255      | 5  | 12      | 7         | 22.39                 | 16.59           | 0.046         |
| QPSK       | 784.5                   | 23255      | 5  | 12      | 13        | 22.29                 | 16.49           | 0.045         |
| QPSK       | 784.5                   | 23255      | 5  | 25      | 0         | 22.28                 | 16.48           | 0.044         |

| 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         | 22.79                 | 16.99           | 0.050         |
| 16QAM      | 779.5                   | 23205      | 5  | 1       | 12        | 22.80                 | 17.00           | 0.050         |
| 16QAM      | 779.5                   | 23205      | 5  | 1       | 24        | 22.93                 | 17.13           | 0.052         |
| 16QAM      | 779.5                   | 23205      | 5  | 12      | 0         | 21.40                 | 15.60           | 0.036         |
| 16QAM      | 779.5                   | 23205      | 5  | 12      | 7         | 21.21                 | 15.41           | 0.035         |
| 16QAM      | 779.5                   | 23205      | 5  | 12      | 13        | 21.29                 | 15.49           | 0.035         |
| 16QAM      | 779.5                   | 23205      | 5  | 25      | 0         | 21.30                 | 15.50           | 0.035         |
| 16QAM      | 782                     | 23230      | 5  | 1       | 0         | 22.80                 | 17.00           | 0.050         |
| 16QAM      | 782                     | 23230      | 5  | 1       | 12        | 22.45                 | 16.65           | 0.046         |
| 16QAM      | 782                     | 23230      | 5  | 1       | 24        | 22.69                 | 16.89           | 0.049         |
| 16QAM      | 782                     | 23230      | 5  | 12      | 0         | 21.40                 | 15.60           | 0.036         |
| 16QAM      | 782                     | 23230      | 5  | 12      | 7         | 21.49                 | 15.69           | 0.037         |
| 16QAM      | 782                     | 23230      | 5  | 12      | 13        | 21.29                 | 15.49           | 0.035         |
| 16QAM      | 782                     | 23230      | 5  | 25      | 0         | 21.27                 | 15.47           | 0.035         |
| 16QAM      | 784.5                   | 23255      | 5  | 1       | 0         | 22.59                 | 16.79           | 0.048         |
| 16QAM      | 784.5                   | 23255      | 5  | 1       | 12        | 23.42                 | 17.62           | 0.058         |
| 16QAM      | 784.5                   | 23255      | 5  | 1       | 24        | 22.80                 | 17.00           | 0.050         |
| 16QAM      | 784.5                   | 23255      | 5  | 12      | 0         | 21.55                 | 15.75           | 0.038         |
| 16QAM      | 784.5                   | 23255      | 5  | 12      | 7         | 21.21                 | 15.41           | 0.035         |
| 16QAM      | 784.5                   | 23255      | 5  | 12      | 13        | 21.37                 | 15.57           | 0.036         |
| 16QAM      | 784.5                   | 23255      | 5  | 25      | 0         | 21.28                 | 15.48           | 0.035         |

| 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         | 23.94                 | 18.14           | 0.065         |
| QPSK       | 782                     | 23230      | 10 | 1       | 25        | 23.51                 | 17.71           | 0.059         |
| QPSK       | 782                     | 23230      | 10 | 1       | 49        | 23.88                 | 18.08           | 0.064         |
| QPSK       | 782                     | 23230      | 10 | 25      | 0         | 22.45                 | 16.65           | 0.046         |
| QPSK       | 782                     | 23230      | 10 | 25      | 12        | 22.53                 | 16.73           | 0.047         |
| QPSK       | 782                     | 23230      | 10 | 25      | 25        | 22.31                 | 16.51           | 0.045         |
| QPSK       | 782                     | 23230      | 10 | 50      | 0         | 22.40                 | 16.60           | 0.046         |
| QPSK       | 782                     | 23230      | 10 | 1       | 0         | 23.55                 | 17.75           | 0.060         |
| QPSK       | 782                     | 23230      | 10 | 1       | 25        | 23.18                 | 17.38           | 0.055         |
| QPSK       | 782                     | 23230      | 10 | 1       | 49        | 24.37                 | 18.57           | 0.072         |
| QPSK       | 782                     | 23230      | 10 | 25      | 0         | 22.36                 | 16.56           | 0.045         |
| QPSK       | 782                     | 23230      | 10 | 25      | 12        | 22.37                 | 16.57           | 0.045         |
| QPSK       | 782                     | 23230      | 10 | 25      | 25        | 22.29                 | 16.49           | 0.045         |
| QPSK       | 782                     | 23230      | 10 | 50      | 0         | 22.50                 | 16.70           | 0.047         |
| QPSK       | 782                     | 23230      | 10 | 1       | 0         | 23.50                 | 17.70           | 0.059         |
| QPSK       | 782                     | 23230      | 10 | 1       | 25        | 23.35                 | 17.55           | 0.057         |
| QPSK       | 782                     | 23230      | 10 | 1       | 49        | 24.34                 | 18.54           | 0.071         |
| QPSK       | 782                     | 23230      | 10 | 25      | 0         | 22.41                 | 16.61           | 0.046         |
| QPSK       | 782                     | 23230      | 10 | 25      | 12        | 22.56                 | 16.76           | 0.047         |
| QPSK       | 782                     | 23230      | 10 | 25      | 25        | 22.21                 | 16.41           | 0.044         |
| QPSK       | 782                     | 23230      | 10 | 50      | 0         | 22.39                 | 16.59           | 0.046         |

| 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         | 22.91                 | 17.11           | 0.051         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 25        | 22.61                 | 16.81           | 0.048         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 49        | 23.16                 | 17.36           | 0.054         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 0         | 21.77                 | 15.97           | 0.040         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 12        | 21.46                 | 15.66           | 0.037         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 25        | 21.51                 | 15.71           | 0.037         |
| 16QAM      | 782                     | 23230      | 10 | 50      | 0         | 21.46                 | 15.66           | 0.037         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 0         | 23.49                 | 17.69           | 0.059         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 25        | 22.87                 | 17.07           | 0.051         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 49        | 24.36                 | 18.56           | 0.072         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 0         | 21.34                 | 15.54           | 0.036         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 12        | 21.61                 | 15.81           | 0.038         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 25        | 21.62                 | 15.82           | 0.038         |
| 16QAM      | 782                     | 23230      | 10 | 50      | 0         | 21.30                 | 15.50           | 0.035         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 0         | 22.66                 | 16.86           | 0.049         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 25        | 22.85                 | 17.05           | 0.051         |
| 16QAM      | 782                     | 23230      | 10 | 1       | 49        | 24.02                 | 18.22           | 0.066         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 0         | 21.38                 | 15.58           | 0.036         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 12        | 21.37                 | 15.57           | 0.036         |
| 16QAM      | 782                     | 23230      | 10 | 25      | 25        | 21.22                 | 15.42           | 0.035         |
| 16QAM      | 782                     | 23230      | 10 | 50      | 0         | 21.34                 | 15.54           | 0.036         |