## APPENDIX A – TEST DATA OF CONDUCTED EMISSION

### LTE Band 12

### 1 RF Power Output

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|---|---|---|---|---|---|---|
| 16QAM | 699.7 | 23017 | 1.4 | 1 | 0 | 23.54 |
| | | | | 1 | 3 | 23.50 |
| | | | | 1 | 5 | 23.45 |
| | | | | 3 | 0 | 23.54 |
| | | | | 3 | 1 | 23.30 |
| | | | | 3 | 3 | 23.45 |
| | | | | 6 | 0 | 22.55 |
| | 707.5 | 23095 | | 1 | 0 | 23.88 |
| | | | | 1 | 3 | 24.09 |
| | | | | 1 | 5 | 24.04 |
| | | | | 3 | 0 | 23.70 |
| | | | | 3 | 1 | 23.66 |
| | | | | 3 | 3 | 23.66 |
| | | | | 6 | 0 | 22.92 |
| | 715.3 | 23173 | | 1 | 0 | 22.93 |
| | | | | 1 | 3 | 22.85 |
| | | | | 1 | 5 | 22.84 |
| | | | | 3 | 0 | 23.28 |
| | | | | 3 | 1 | 23.22 |
| | | | | 3 | 3 | 23.25 |
| | | | | 6 | 0 | 22.53 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|---|---|---|---|---|---|---|
| QPSK | 699.7 | 23017 | 1.4 | 1 | 0 | 23.89 |
| | | | | 1 | 3 | 23.80 |
| | | | | 1 | 5 | 23.90 |
| | | | | 3 | 0 | 23.84 |
| | | | | 3 | 1 | 23.81 |
| | | | | 3 | 3 | 23.78 |
| | | | | 6 | 0 | 23.39 |
| | 707.5 | 23095 | | 1 | 0 | 24.01 |
| | | | | 1 | 3 | 23.76 |
| | | | | 1 | 5 | 23.86 |
| | | | | 3 | 0 | 23.87 |
| | | | | 3 | 1 | 23.43 |
| | | | | 3 | 3 | 23.87 |
| | | | | 6 | 0 | 23.64 |
| | 715.3 | 23173 | | 1 | 0 | 24.07 |
| | | | | 1 | 3 | 23.95 |
| | | | | 1 | 5 | 24.18 |
| | | | | 3 | 0 | 23.63 |
| | | | | 3 | 1 | 23.71 |
| | | | | 3 | 3 | 23.69 |
| | | | | 6 | 0 | 23.09 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|---|---|---|---|---|---|---|
| 16QAM | 700.5 | 23025 | 3 | 1 | 0 | 23.30 |
| | | | | 1 | 8 | 23.38 |
| | | | | 1 | 14 | 23.31 |
| | | | | 8 | 0 | 22.24 |
| | | | | 8 | 4 | 22.40 |
| | | | | 8 | 7 | 22.31 |
| | | | | 15 | 0 | 22.68 |
| | 707.5 | 23095 | | 1 | 0 | 23.73 |
| | | | | 1 | 8 | 24.05 |
| | | | | 1 | 14 | 24.04 |
| | | | | 8 | 0 | 22.26 |
| | | | | 8 | 4 | 22.60 |
| | | | | 8 | 7 | 22.61 |
| | | | | 15 | 0 | 22.65 |
| | 714.5 | 23165 | | 1 | 0 | 23.04 |
| | | | | 1 | 8 | 22.96 |
| | | | | 1 | 14 | 22.79 |
| | | | | 8 | 0 | 22.42 |
| | | | | 8 | 4 | 22.31 |
| | | | | 8 | 7 | 22.34 |
| | | | | 15 | 0 | 22.40 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|---|---|---|---|---|---|---|
| QPSK | 700.5 | 23025 | 3 | 1 | 0 | 24.07 |
| | | | | 1 | 8 | 24.03 |
| | | | | 1 | 14 | 24.06 |
| | | | | 8 | 0 | 23.36 |
| | | | | 8 | 4 | 23.24 |
| | | | | 8 | 7 | 23.33 |
| | | | | 15 | 0 | 23.15 |
| | 707.5 | 23095 | | 1 | 0 | 23.96 |
| | | | | 1 | 8 | 23.81 |
| | | | | 1 | 14 | 23.89 |
| | | | | 8 | 0 | 23.38 |
| | | | | 8 | 4 | 23.58 |
| | | | | 8 | 7 | 23.45 |
| | | | | 15 | 0 | 23.48 |
| | 714.5 | 23165 | | 1 | 0 | 24.14 |
| | | | | 1 | 8 | 24.07 |
| | | | | 1 | 14 | 24.17 |
| | | | | 8 | 0 | 23.34 |
| | | | | 8 | 4 | 23.25 |
| | | | | 8 | 7 | 23.07 |
| | | | | 15 | 0 | 23.29 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|---|---|---|---|---|---|---|
| 16QAM | 701.5 | 23035 | 5 | 1 | 0 | 22.87 |
| | | | | 1 | 12 | 22.76 |
| | | | | 1 | 24 | 22.79 |
| | | | | 12 | 0 | 22.28 |
| | | | | 12 | 7 | 22.09 |
| | | | | 12 | 13 | 22.01 |
| | | | | 25 | 0 | 22.38 |
| | 707.5 | 23095 | | 1 | 0 | 23.39 |
| | | | | 1 | 12 | 23.54 |
| | | | | 1 | 24 | 23.02 |
| | | | | 12 | 0 | 21.78 |
| | | | | 12 | 7 | 22.36 |
| | | | | 12 | 13 | 22.40 |
| | | | | 25 | 0 | 22.62 |
| | 713.5 | 23155 | | 1 | 0 | 23.58 |
| | | | | 1 | 12 | 23.63 |
| | | | | 1 | 24 | 23.32 |
| | | | | 12 | 0 | 22.08 |
| | | | | 12 | 7 | 22.36 |
| | | | | 12 | 13 | 22.35 |
| | | | | 25 | 0 | 22.55 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|---|---|---|---|---|---|---|
| QPSK | 701.5 | 23035 | 5 | 1 | 0 | 23.93 |
| | | | | 1 | 12 | 23.92 |
| | | | | 1 | 24 | 23.99 |
| | | | | 12 | 0 | 23.36 |
| | | | | 12 | 7 | 23.38 |
| | | | | 12 | 13 | 23.34 |
| | | | | 25 | 0 | 23.34 |
| | 707.5 | 23095 | | 1 | 0 | 23.75 |
| | | | | 1 | 12 | 23.84 |
| | | | | 1 | 24 | 23.54 |
| | | | | 12 | 0 | 23.43 |
| | | | | 12 | 7 | 23.53 |
| | | | | 12 | 13 | 23.59 |
| | | | | 25 | 0 | 23.63 |
| | 713.5 | 23155 | | 1 | 0 | 23.78 |
| | | | | 1 | 12 | 23.82 |
| | | | | 1 | 24 | 23.77 |
| | | | | 12 | 0 | 23.03 |
| | | | | 12 | 7 | 23.29 |
| | | | | 12 | 13 | 23.34 |
| | | | | 25 | 0 | 23.06 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|---|---|---|---|---|---|---|
| 16QAM | 704 | 23060 | 10 | 1 | 0 | 24.00 |
| | | | | 1 | 25 | 24.20 |
| | | | | 1 | 49 | 24.28 |
| | | | | 25 | 0 | 22.34 |
| | | | | 25 | 12 | 22.33 |
| | | | | 25 | 25 | 22.20 |
| | | | | 50 | 0 | 22.28 |
| | 707.5 | 23095 | | 1 | 0 | 23.85 |
| | | | | 1 | 25 | 24.02 |
| | | | | 1 | 49 | 24.01 |
| | | | | 25 | 0 | 22.24 |
| | | | | 25 | 12 | 22.66 |
| | | | | 25 | 25 | 22.17 |
| | | | | 50 | 0 | 22.59 |
| | 711 | 23130 | | 1 | 0 | 23.64 |
| | | | | 1 | 25 | 23.42 |
| | | | | 1 | 49 | 23.38 |
| | | | | 25 | 0 | 22.64 |
| | | | | 25 | 12 | 22.20 |
| | | | | 25 | 25 | 22.65 |
| | | | | 50 | 0 | 22.03 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|---|---|---|---|---|---|---|
| QPSK | 704 | 23060 | 10 | 1 | 0 | 23.97 |
| | | | | 1 | 25 | 24.06 |
| | | | | 1 | 49 | 23.87 |
| | | | | 25 | 0 | 23.38 |
| | | | | 25 | 12 | 23.36 |
| | | | | 25 | 25 | 23.25 |
| | | | | 50 | 0 | 23.26 |
| | 707.5 | 23095 | | 1 | 0 | 24.08 |
| | | | | 1 | 25 | 23.63 |
| | | | | 1 | 49 | 23.86 |
| | | | | 25 | 0 | 23.39 |
| | | | | 25 | 12 | 23.51 |
| | | | | 25 | 25 | 23.16 |
| | | | | 50 | 0 | 23.46 |
| | 711 | 23130 | | 1 | 0 | 23.86 |
| | | | | 1 | 25 | 23.64 |
| | | | | 1 | 49 | 23.95 |
| | | | | 25 | 0 | 23.49 |
| | | | | 25 | 12 | 23.08 |
| | | | | 25 | 25 | 23.15 |
| | | | | 50 | 0 | 23.21 |

## 2 Occupied Bandwidth

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of 99% Power (MHz) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | QPSK | | 16-QAM | | 64-QAM | |
| 12 | 699.7 | 23017 | 1.4 | 6 | 0 | 1.082 | Fig.1 | 1.088 | Fig.2 | --- | --- |
| | 707.5 | 23095 | | 6 | 0 | 1.088 | Fig.3 | 1.088 | Fig.4 | --- | --- |
| | 715.3 | 23173 | | 6 | 0 | 1.088 | Fig.5 | 1.082 | Fig.6 | --- | --- |
| | 700.5 | 23025 | 3 | 15 | 0 | 2.683 | Fig.7 | 2.683 | Fig.8 | --- | --- |
| | 707.5 | 23095 | | 15 | 0 | 2.683 | Fig.9 | 2.683 | Fig.10 | --- | --- |
| | 714.5 | 23165 | | 15 | 0 | 2.683 | Fig.11 | 2.683 | Fig.12 | --- | --- |
| | 701.5 | 23035 | 5 | 25 | 0 | 4.493 | Fig.13 | 4.450 | Fig.14 | --- | --- |
| | 707.5 | 23095 | | 25 | 0 | 4.472 | Fig.15 | 4.472 | Fig.16 | --- | --- |
| | 713.5 | 23155 | | 25 | 0 | 4.472 | Fig.17 | 4.472 | Fig.18 | --- | --- |
| | 704 | 23060 | 10 | 50 | 0 | 8.944 | Fig.19 | 8.944 | Fig.20 | --- | --- |
| | 707.5 | 23095 | | 50 | 0 | 8.987 | Fig.21 | 8.944 | Fig.22 | --- | --- |
| | 711 | 23130 | | 50 | 0 | 8.944 | Fig.23 | 8.944 | Fig.24 | --- | --- |

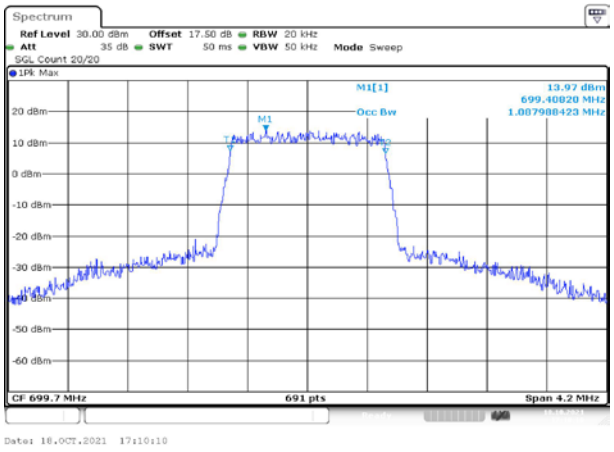



Fig.1

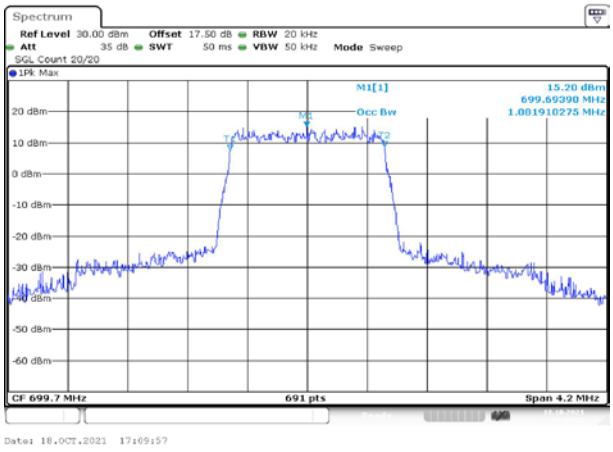



Fig.2

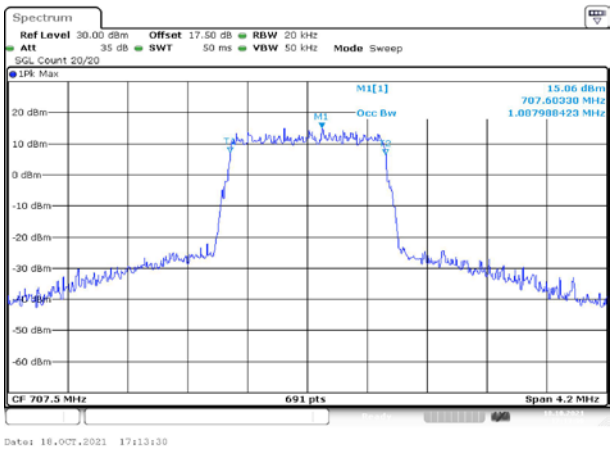



Fig.3

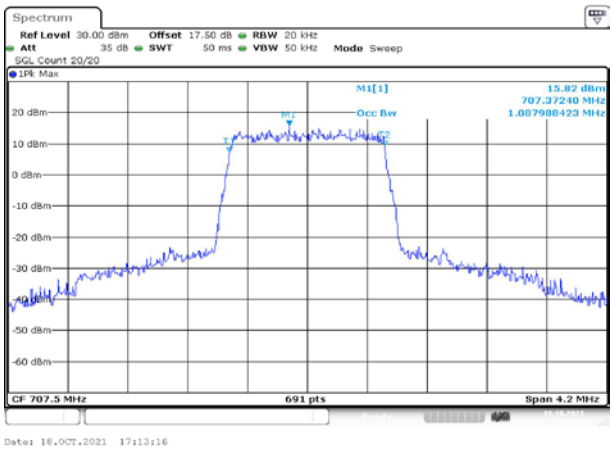



Fig.4

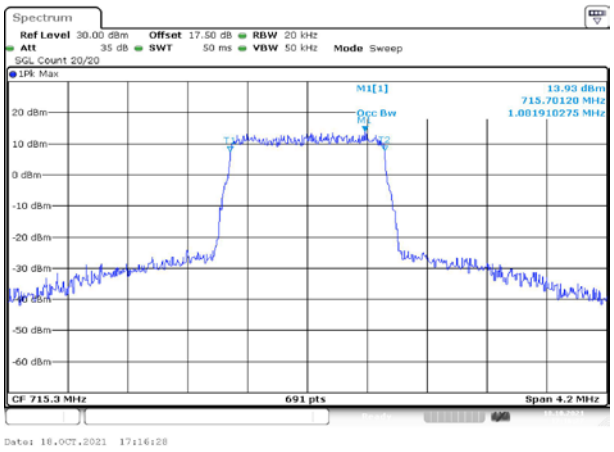



Fig.5

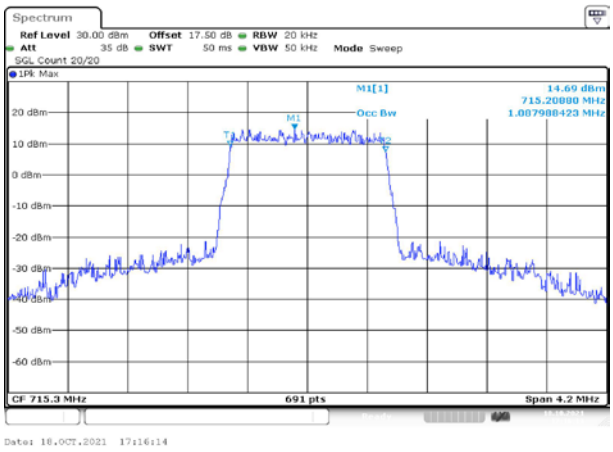



Fig.6

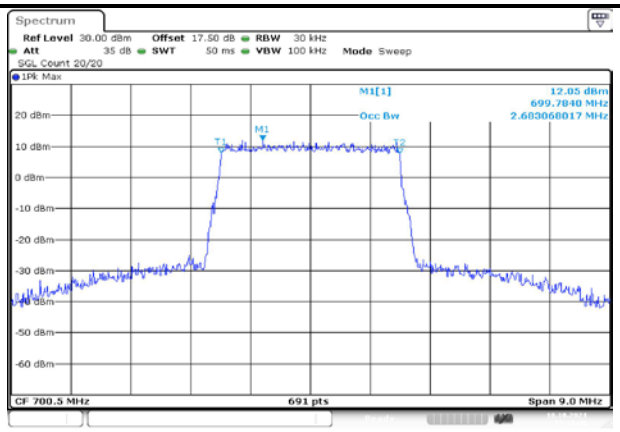



Fig.7

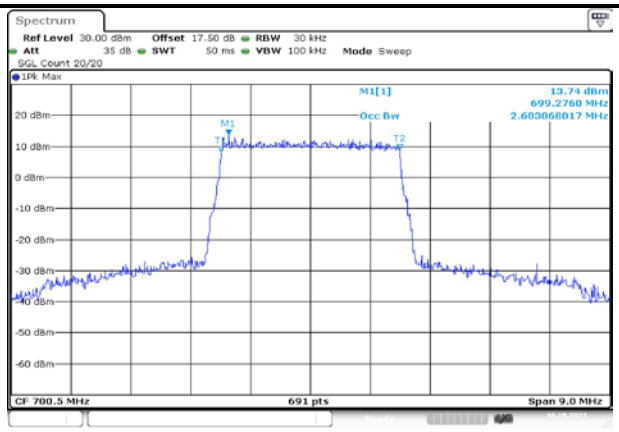



Fig.8

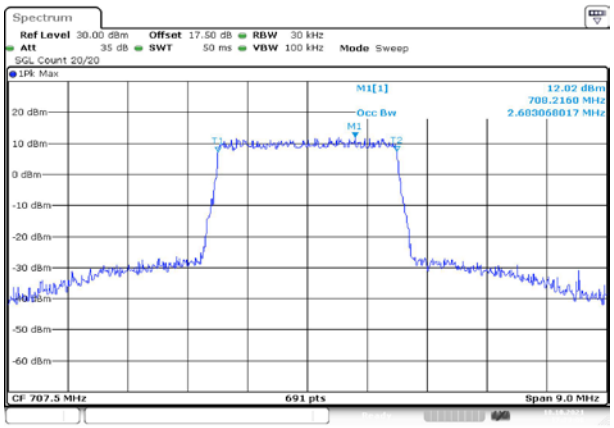



Fig.9

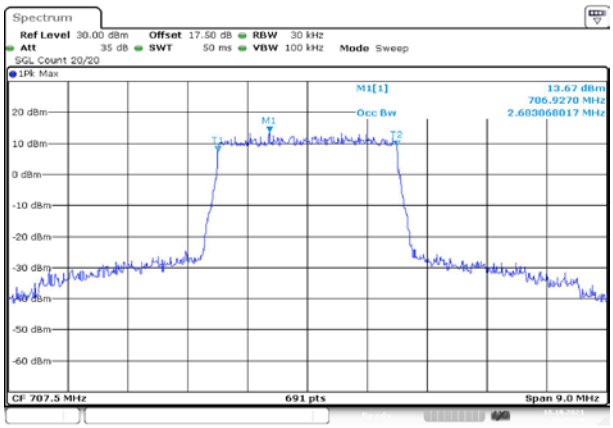



Fig.10

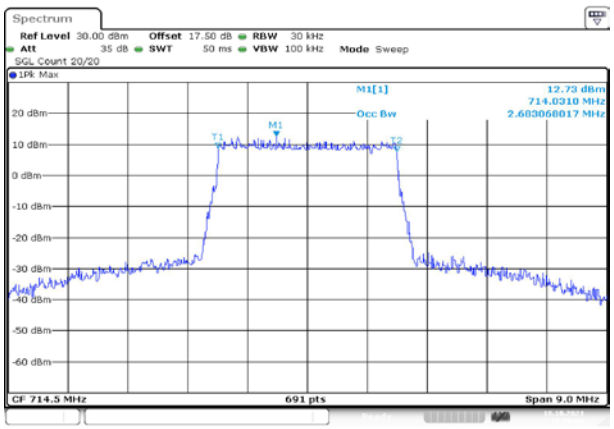



Fig.11

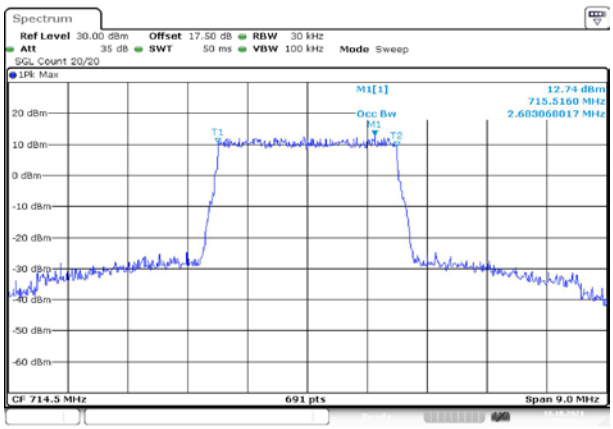



Fig.12

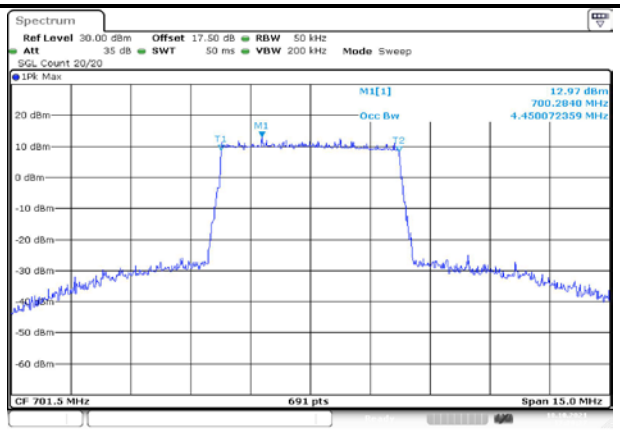



Fig.13

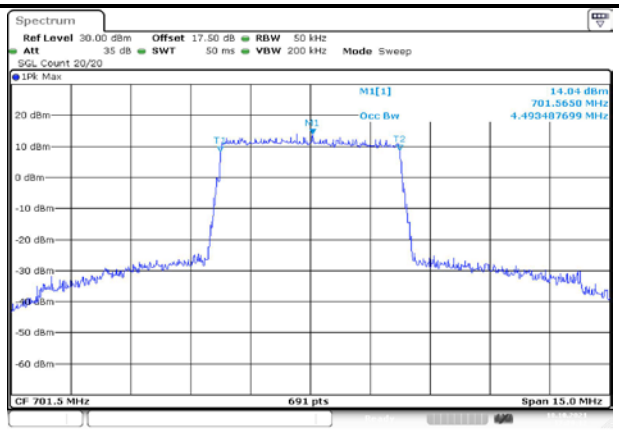



Fig.14

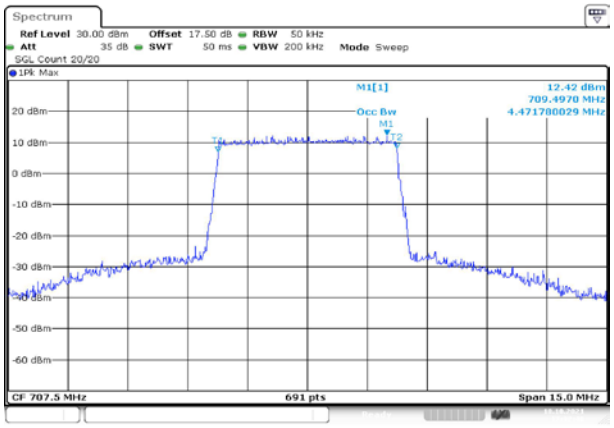



Fig.15

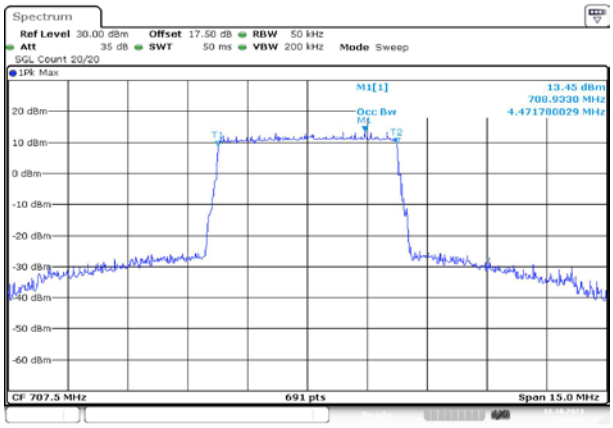



Fig.16

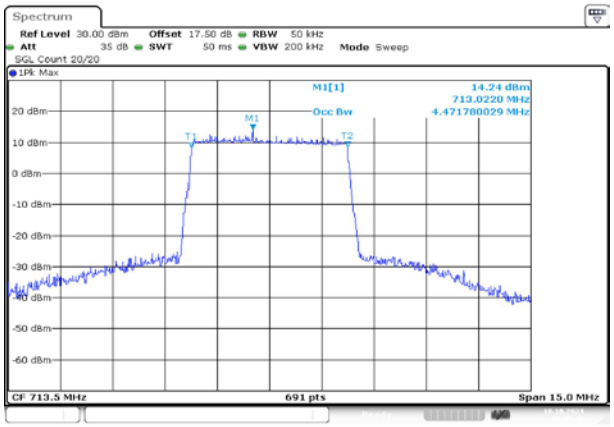



Fig.17

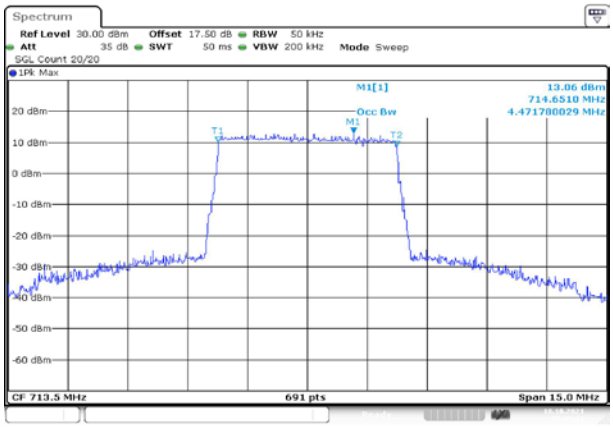



Fig.18

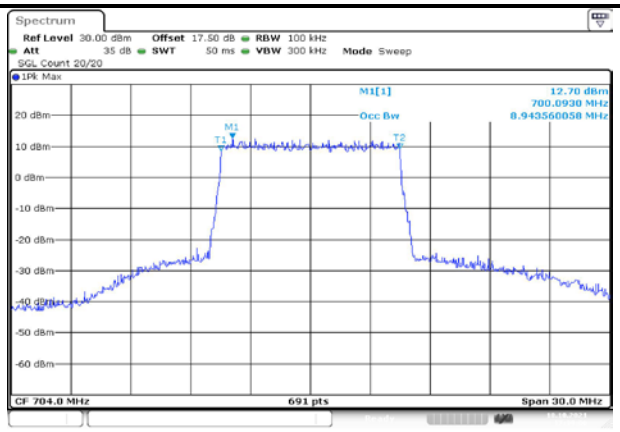



Fig.19

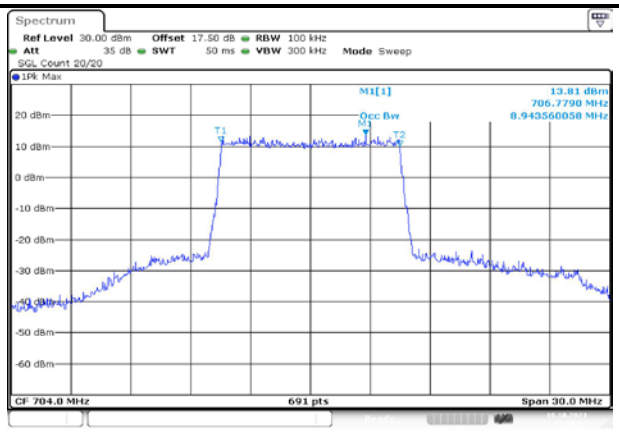



Fig.20

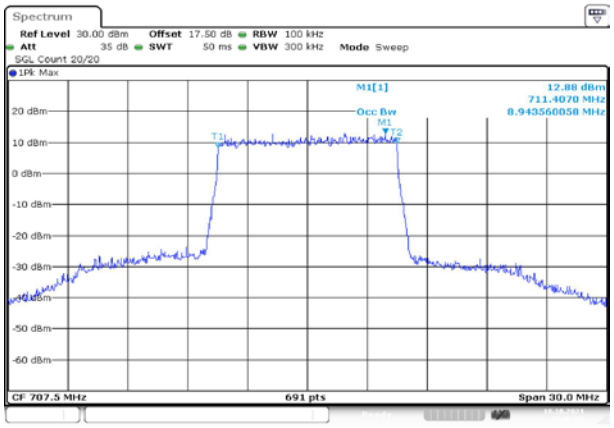



Fig.21

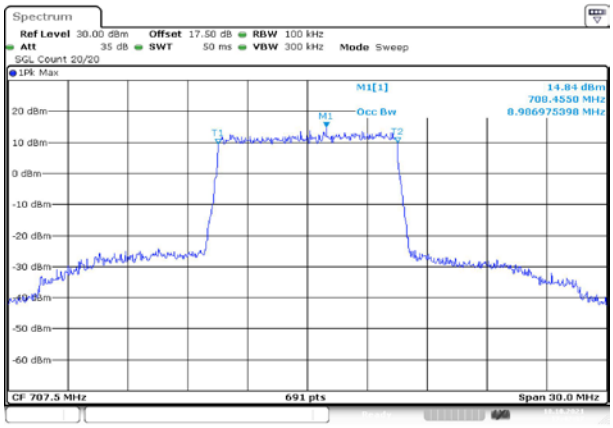



Fig.22

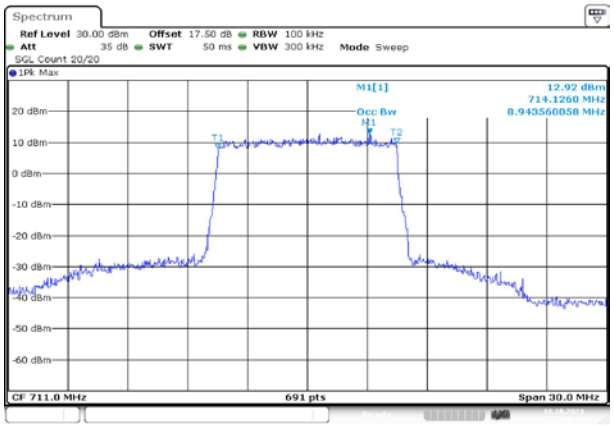



Fig.23

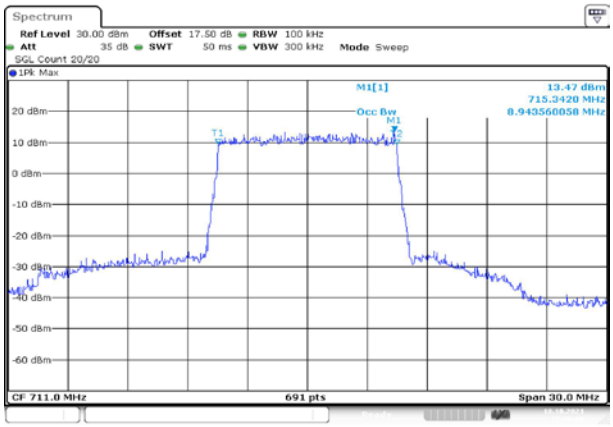



Fig.24

## 3 Emission Bandwidth

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of -26dB transmitter power (MHz) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | QPSK | | 16-QAM | | 64-QAM | |
| 12 | 699.7 | 23017 | 1.4 | 6 | 0 | 1.222 | Fig.1 | 1.222 | Fig.2 | --- | --- |
| | 707.5 | 23095 | | 6 | 0 | 1.228 | Fig.3 | 1.216 | Fig.4 | --- | --- |
| | 715.3 | 23173 | | 6 | 0 | 1.210 | Fig.5 | 1.222 | Fig.6 | --- | --- |
| | 700.5 | 23025 | 3 | 15 | 0 | 2.996 | Fig.7 | 2.996 | Fig.8 | --- | --- |
| | 707.5 | 23095 | | 15 | 0 | 2.983 | Fig.9 | 2.970 | Fig.10 | --- | --- |
| | 714.5 | 23165 | | 15 | 0 | 2.983 | Fig.11 | 2.970 | Fig.12 | --- | --- |
| | 701.5 | 23035 | 5 | 25 | 0 | 4.906 | Fig.13 | 4.863 | Fig.14 | --- | --- |
| | 707.5 | 23095 | | 25 | 0 | 4.884 | Fig.15 | 4.841 | Fig.16 | --- | --- |
| | 713.5 | 23155 | | 25 | 0 | 4.928 | Fig.17 | 4.906 | Fig.18 | --- | --- |
| | 704 | 23060 | 10 | 50 | 0 | 9.725 | Fig.19 | 9.768 | Fig.20 | --- | --- |
| | 707.5 | 23095 | | 50 | 0 | 9.682 | Fig.21 | 9.725 | Fig.22 | --- | --- |
| | 711 | 23130 | | 50 | 0 | 9.725 | Fig.23 | 9.725 | Fig.24 | --- | --- |

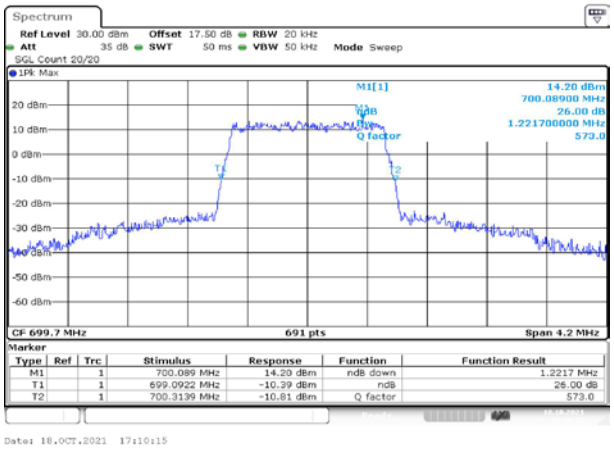



Fig.1

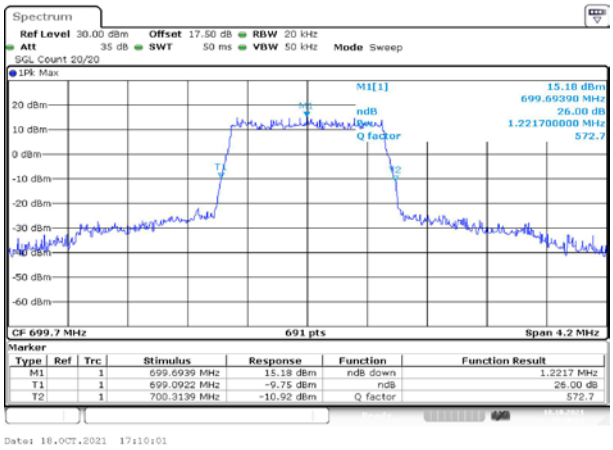



Fig.2

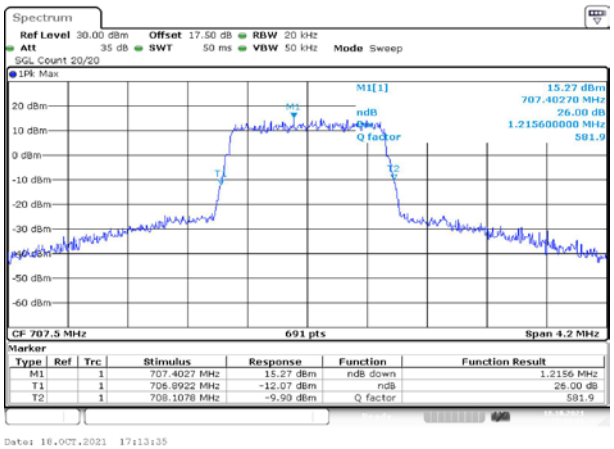



Fig.3

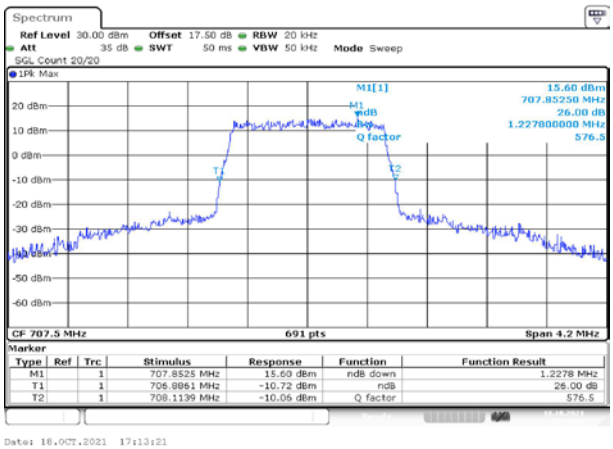



Fig.4

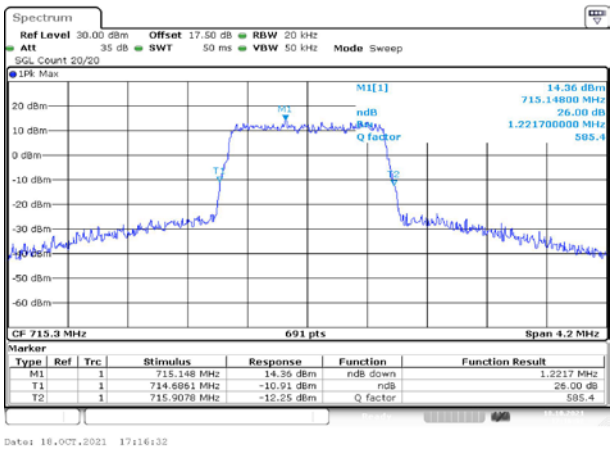



Fig.5

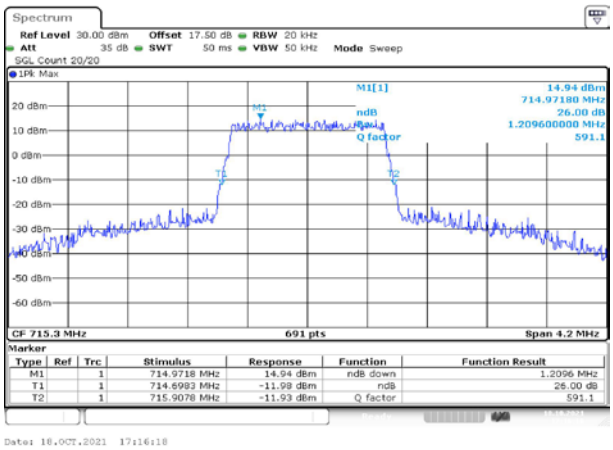



Fig.6

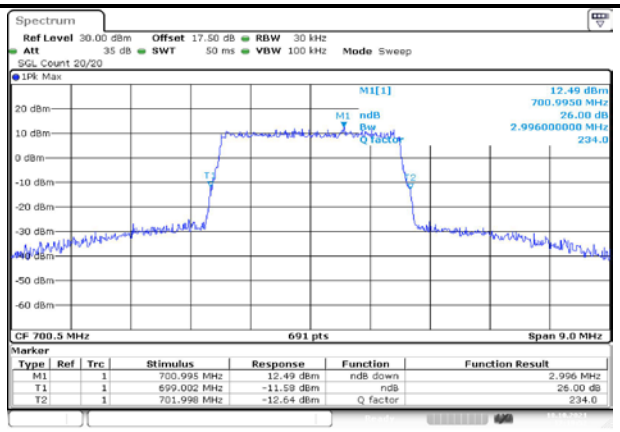



Fig.7

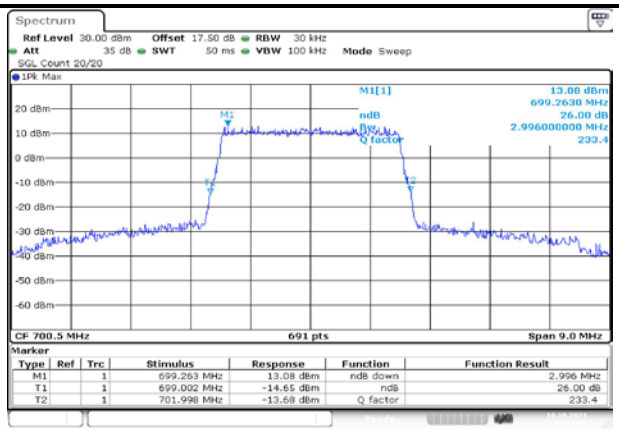



Fig.8

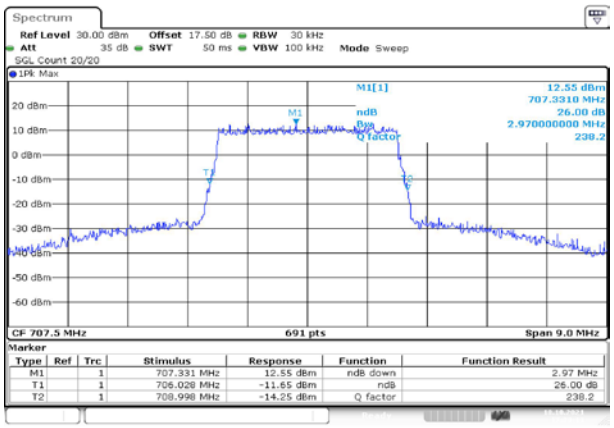



Fig.9

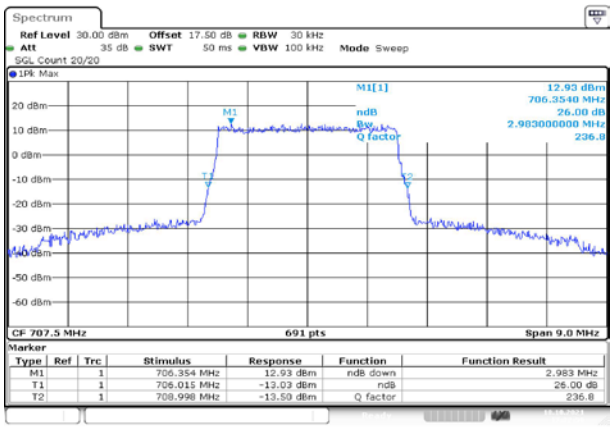
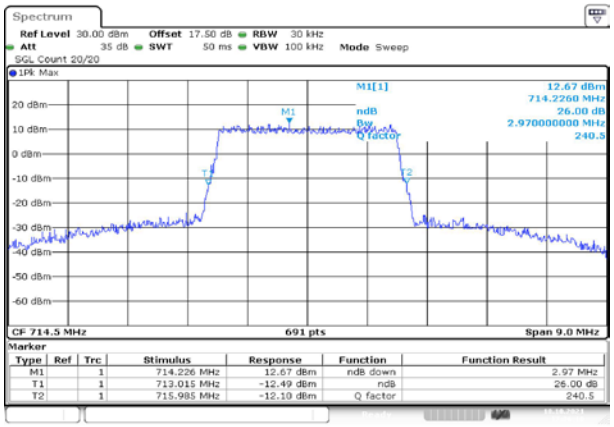



Fig.10

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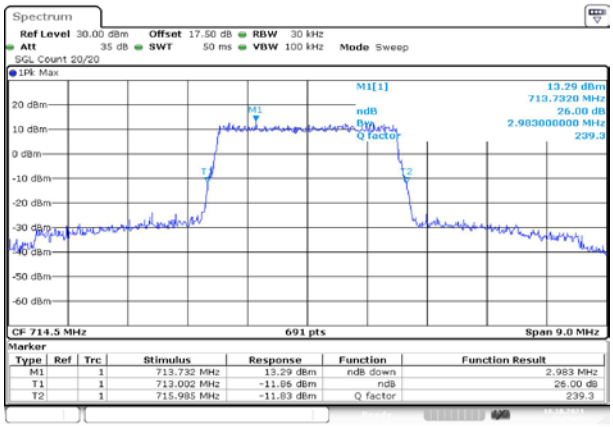



Fig.12

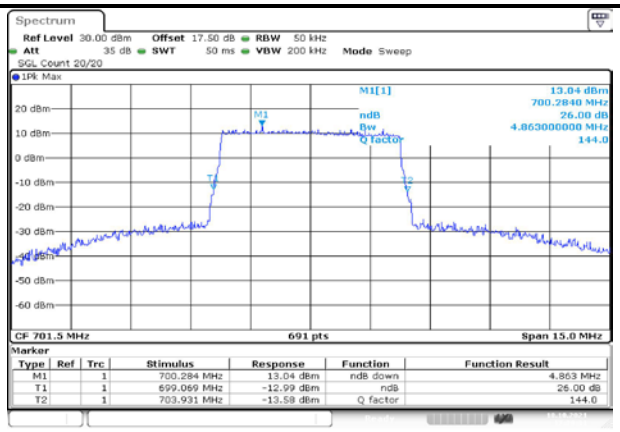
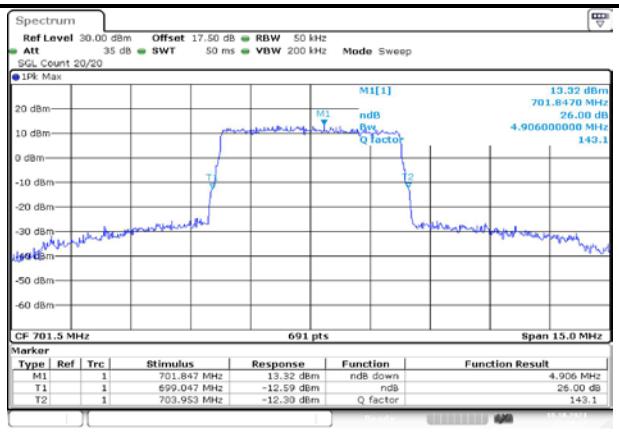



Fig.13

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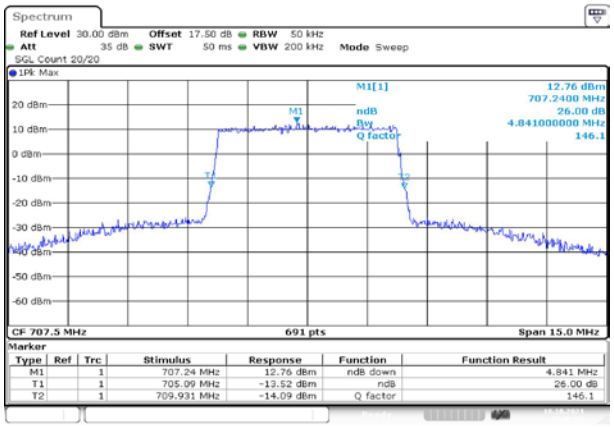



Fig.15

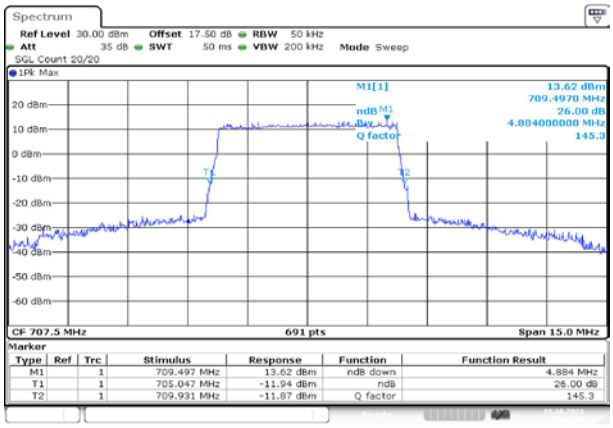



Fig.16

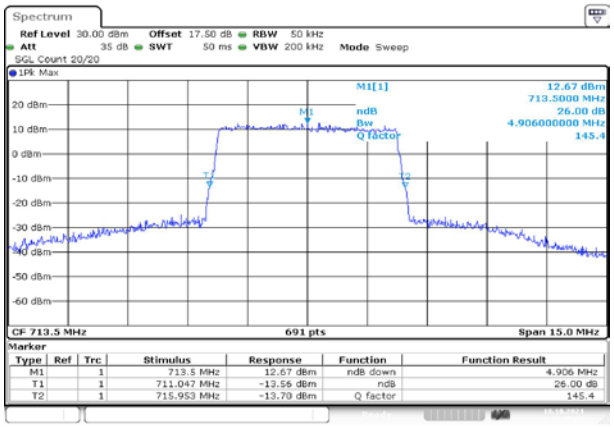



Fig.17

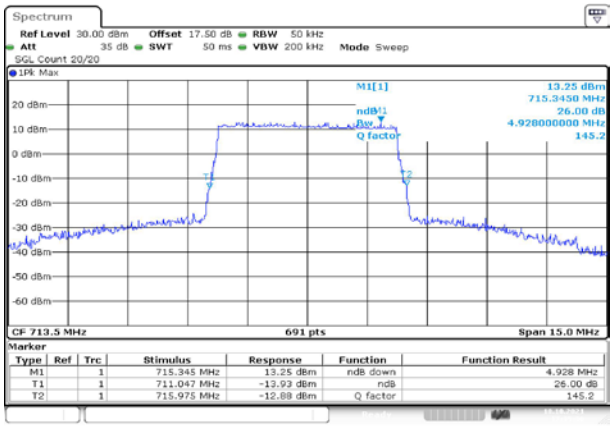



Fig.18

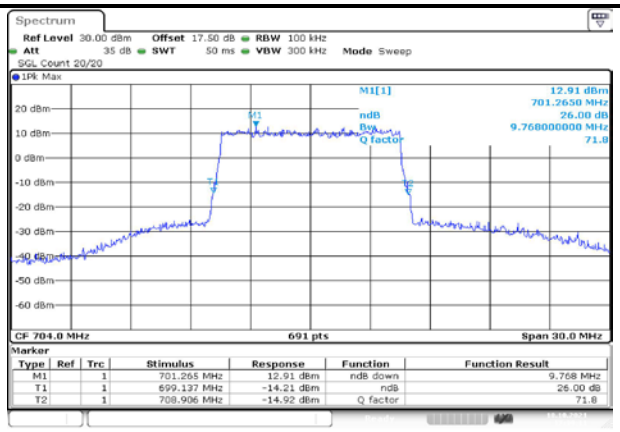



Fig.19

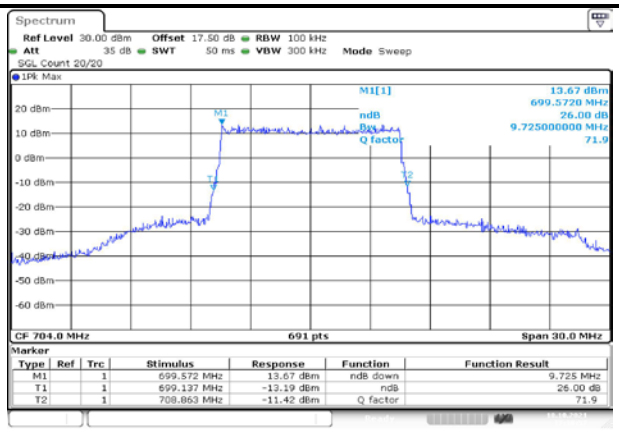



Fig.20

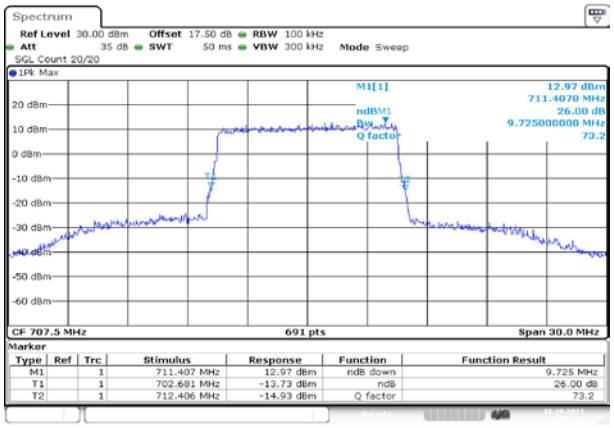



Fig.21

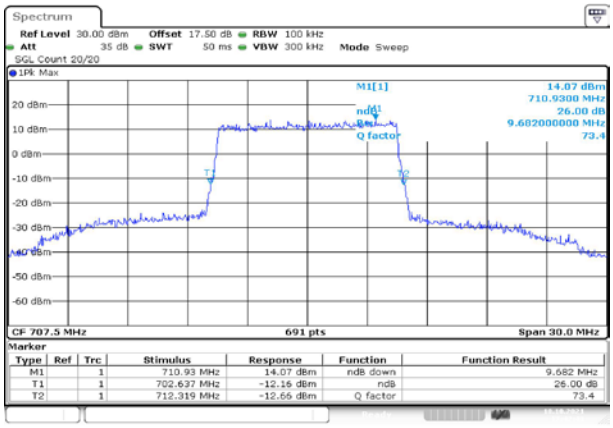



Fig.22

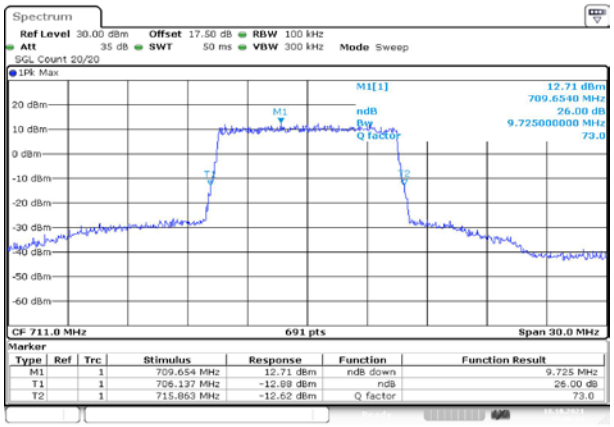



Fig.23

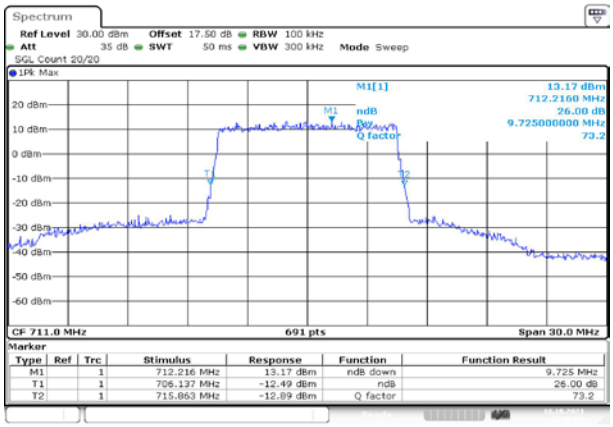



Fig.24

## 4 Peak-Average Ratio

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | QPSK | 16-QAM | 64-QAM |
|---|---|---|---|---|---|---|---|---|
| 12 | 699.7 | 23017 | 1.4 | 1 | 5 | Fig.1 | Fig.2 | --- |
| | 699.7 | 23017 | | 6 | 0 | Fig.3 | Fig.4 | --- |
| | 707.5 | 23095 | | 1 | 5 | Fig.5 | Fig.6 | --- |
| | 707.5 | 23095 | | 6 | 0 | Fig.7 | Fig.8 | --- |
| | 715.3 | 23173 | | 1 | 5 | Fig.9 | Fig.10 | --- |
| | 715.3 | 23173 | | 6 | 0 | Fig.11 | Fig.12 | --- |
| | 700.5 | 23025 | 3 | 1 | 14 | Fig.13 | Fig.14 | --- |
| | 700.5 | 23025 | | 15 | 0 | Fig.15 | Fig.16 | --- |
| | 707.5 | 23095 | | 1 | 14 | Fig.17 | Fig.18 | --- |
| | 707.5 | 23095 | | 15 | 0 | Fig.19 | Fig.20 | --- |
| | 714.5 | 23165 | | 1 | 14 | Fig.21 | Fig.22 | --- |
| | 714.5 | 23165 | | 15 | 0 | Fig.23 | Fig.24 | --- |
| | 701.5 | 23035 | 5 | 1 | 24 | Fig.25 | Fig.26 | --- |
| | 701.5 | 23035 | | 25 | 0 | Fig.27 | Fig.28 | --- |
| | 707.5 | 23095 | | 1 | 24 | Fig.29 | Fig.30 | --- |
| | 707.5 | 23095 | | 25 | 0 | Fig.31 | Fig.32 | --- |
| | 713.5 | 23155 | | 1 | 24 | Fig.33 | Fig.34 | --- |
| | 713.5 | 23155 | | 25 | 0 | Fig.35 | Fig.36 | --- |
| | 704 | 23060 | 10 | 1 | 49 | Fig.37 | Fig.38 | --- |
| | 704 | 23060 | | 50 | 0 | Fig.39 | Fig.40 | --- |
| | 707.5 | 23095 | | 1 | 49 | Fig.41 | Fig.42 | --- |
| | 707.5 | 23095 | | 50 | 0 | Fig.43 | Fig.44 | --- |
| | 711 | 23130 | | 1 | 49 | Fig.45 | Fig.46 | --- |
| | 711 | 23130 | | 50 | 0 | Fig.47 | Fig.48 | --- |

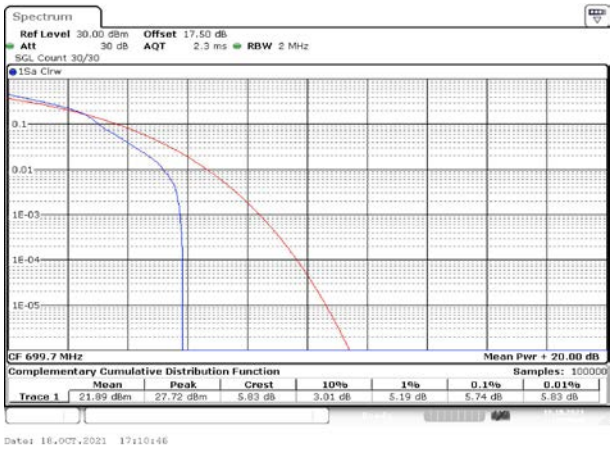



Fig.1

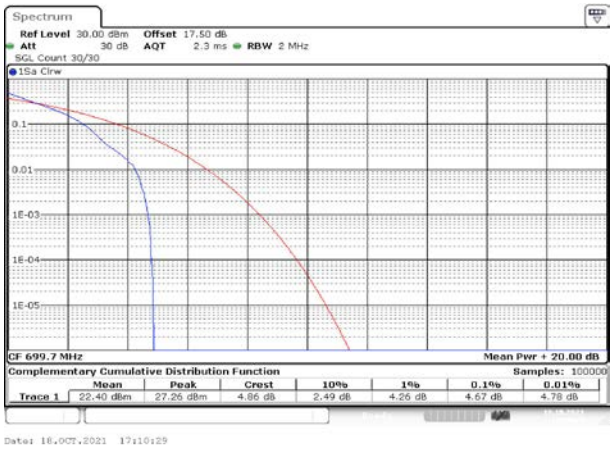



Fig.2

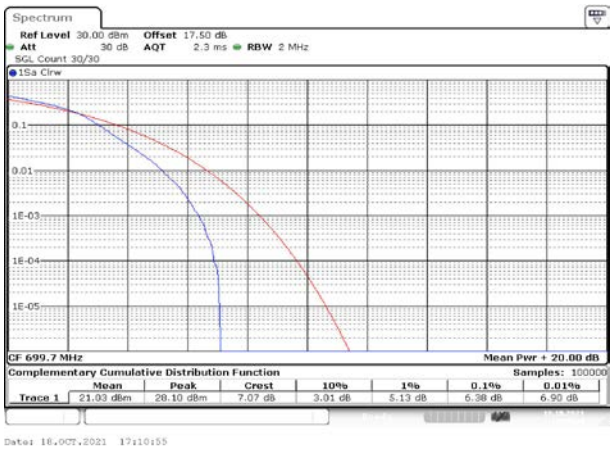



Fig.3

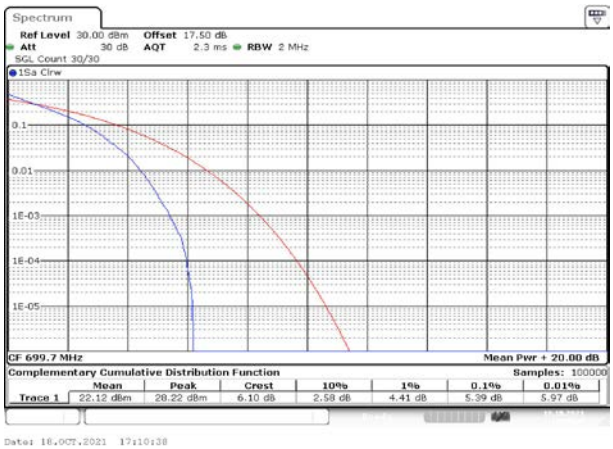



Fig.4

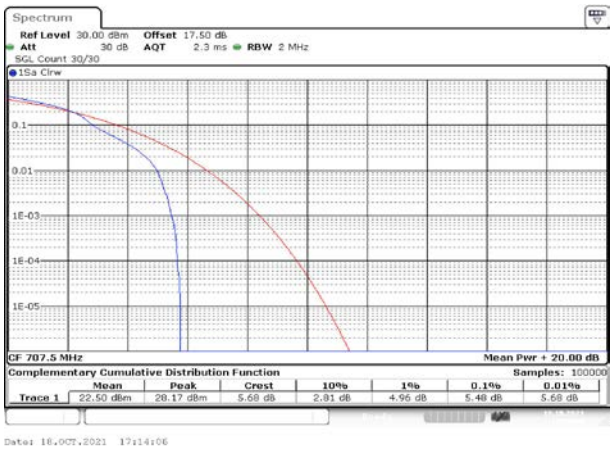



Fig.5

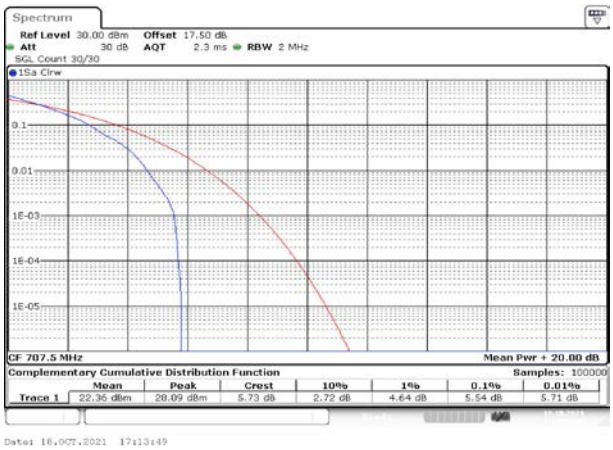



Fig.6

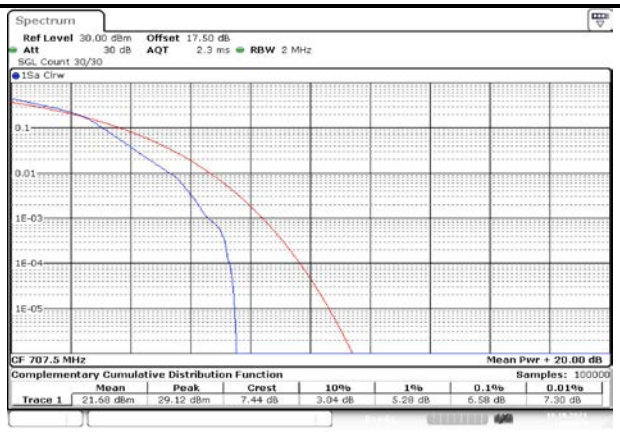



Fig.7

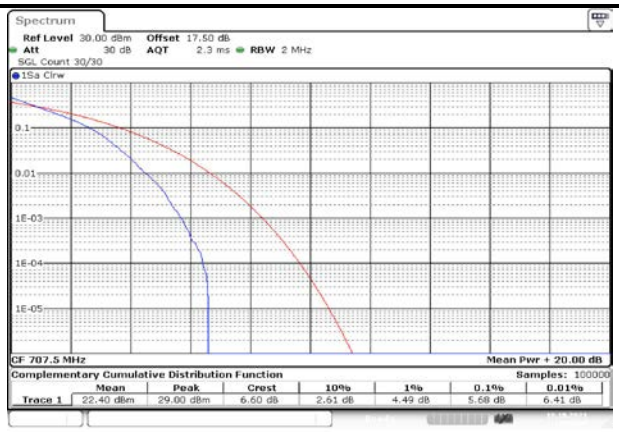



Fig.8

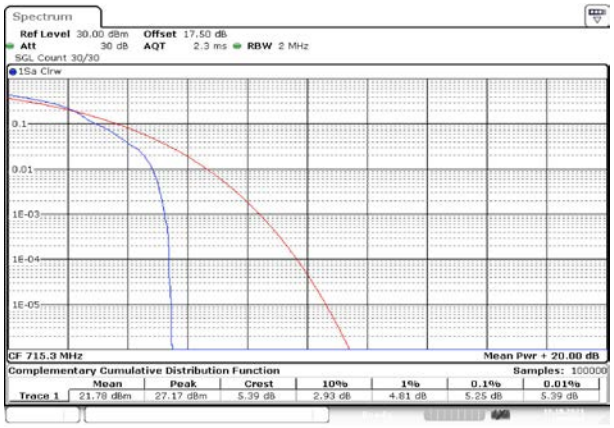



Fig.9

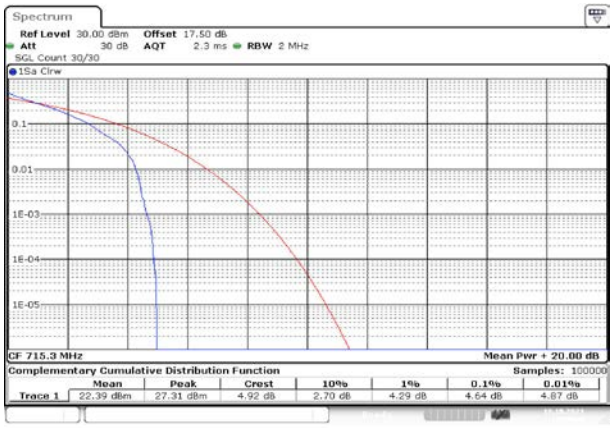
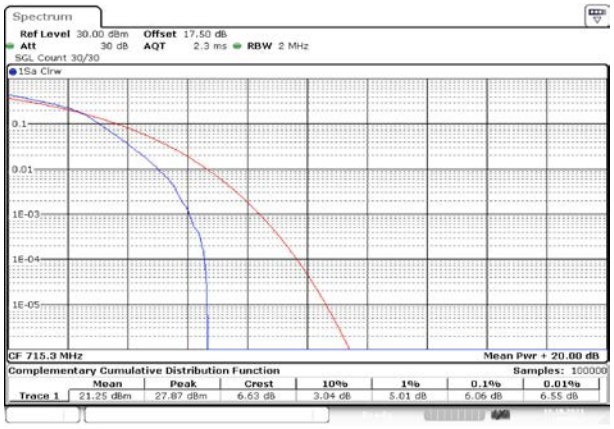



Fig.10

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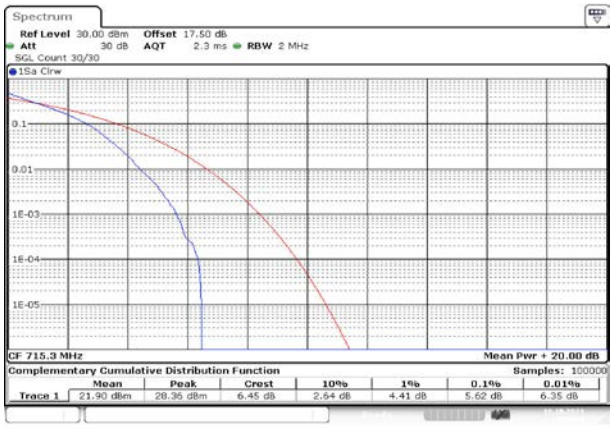



Fig.12

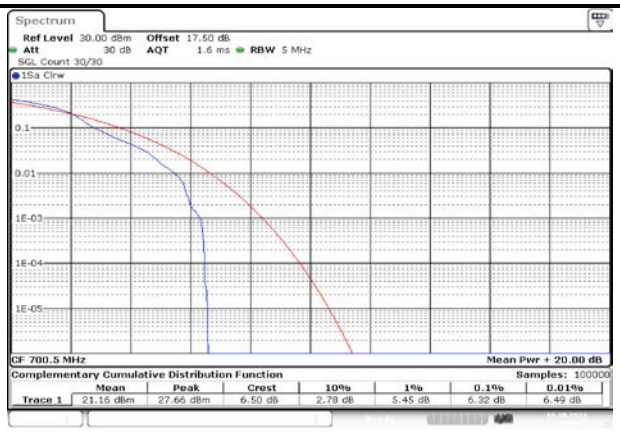



Fig.13

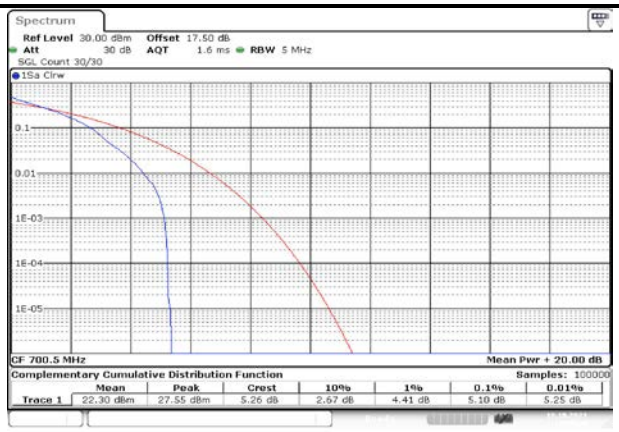



Fig.14

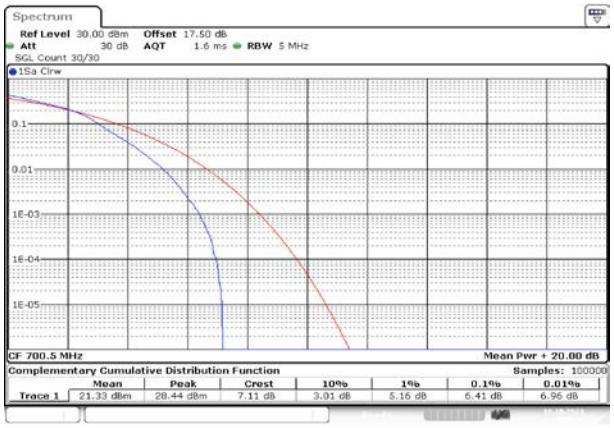



Fig.15

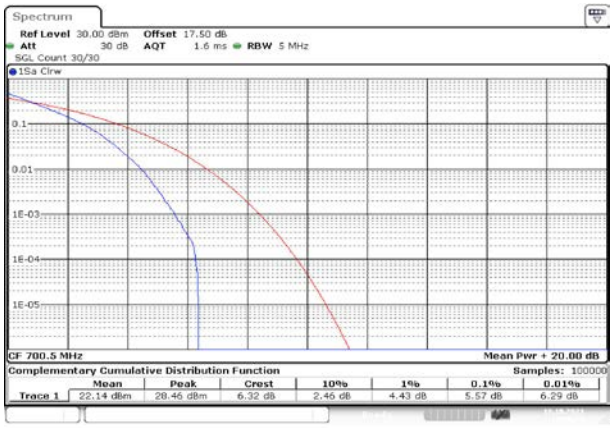



Fig.16

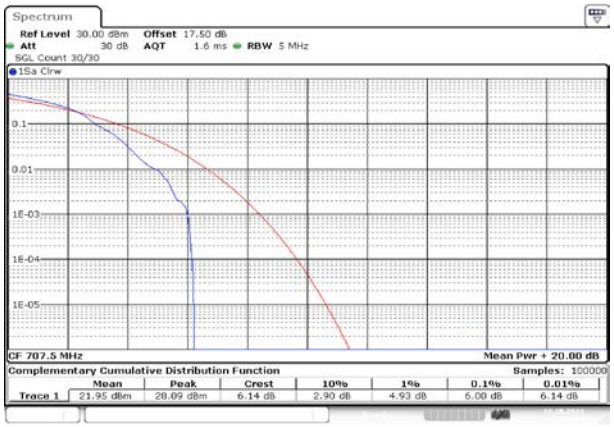



Fig.17

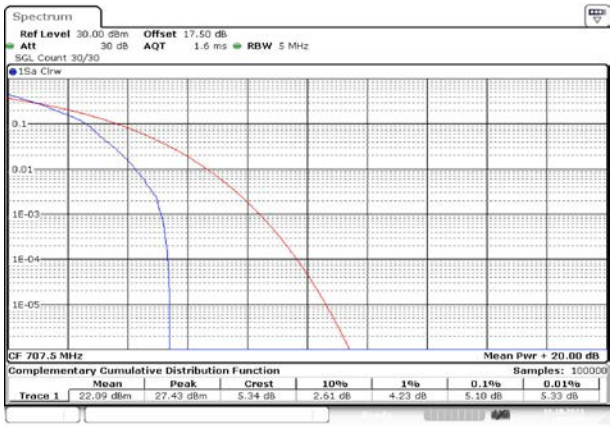



Fig.18

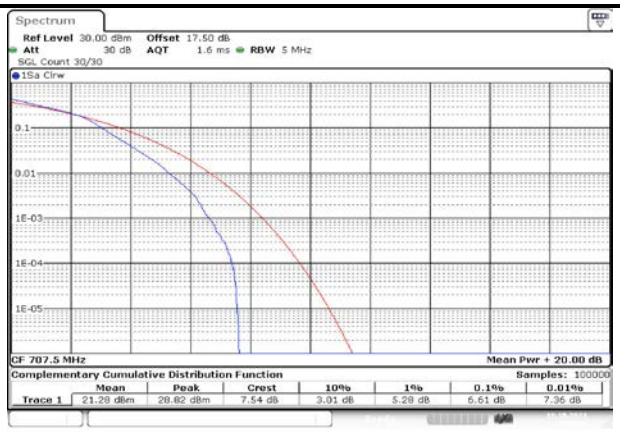



Fig.19

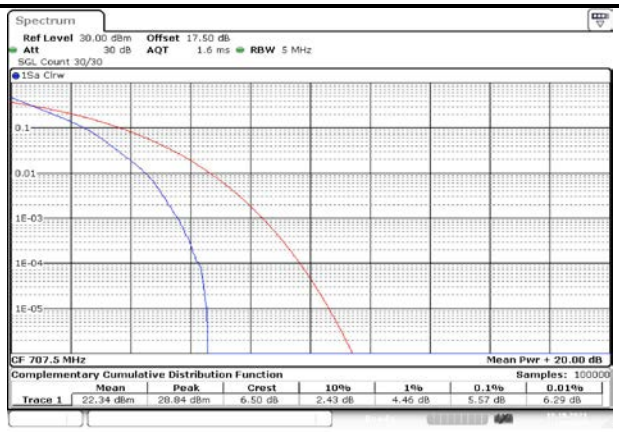



Fig.20

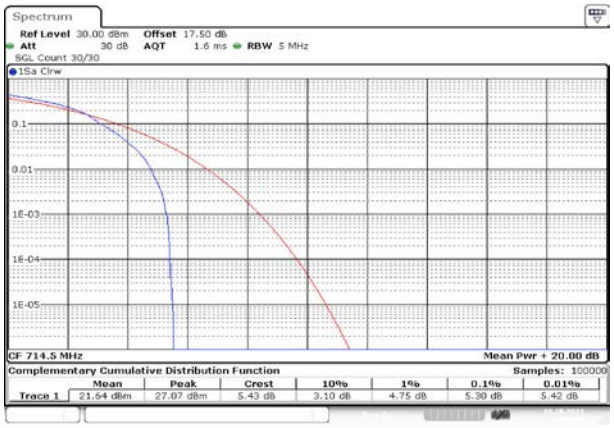
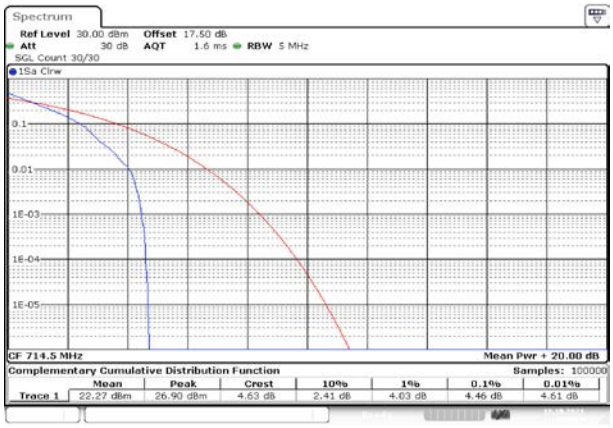



Fig.21

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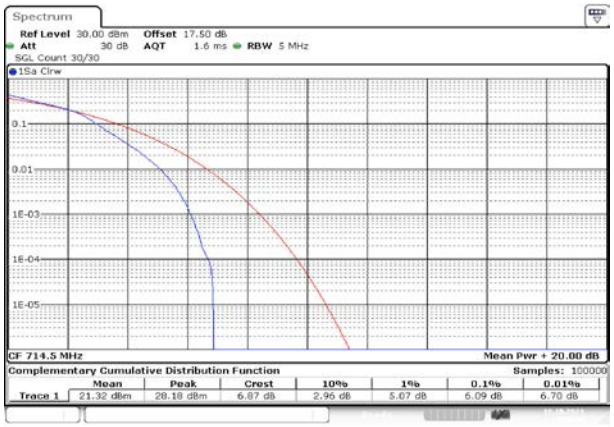


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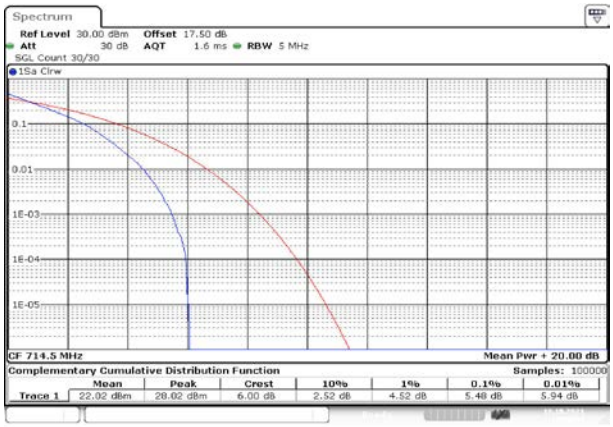


Fig.24

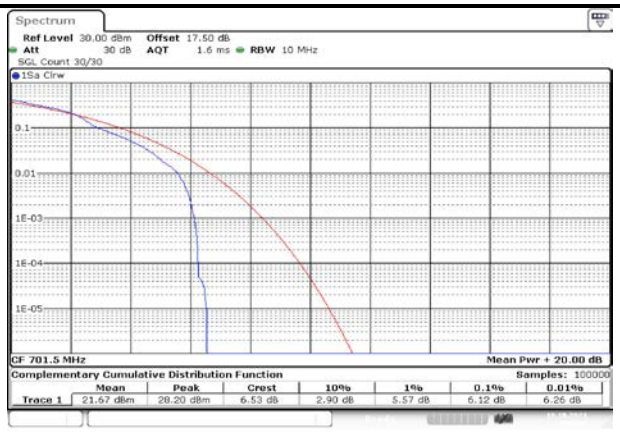


Fig.25

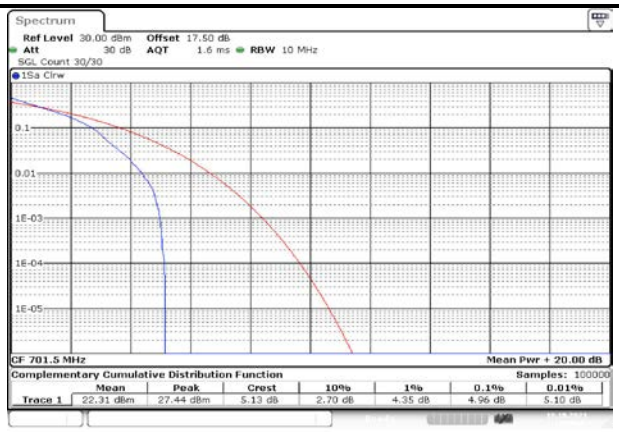


Fig.26

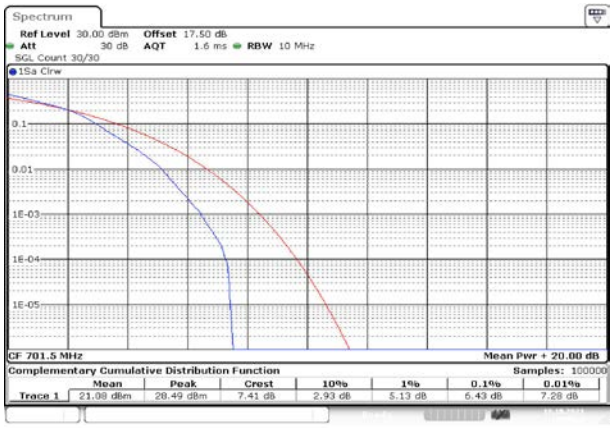


Fig.27

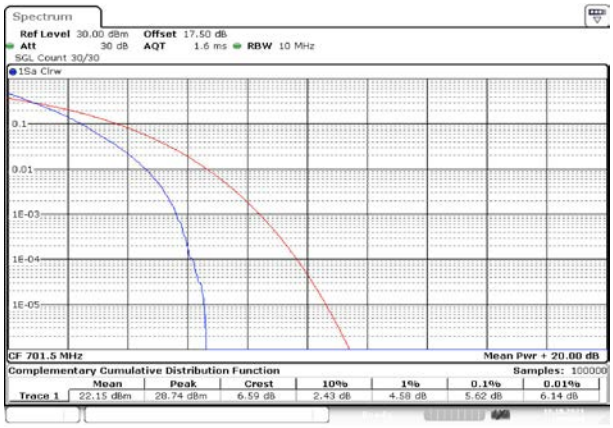


Fig.28

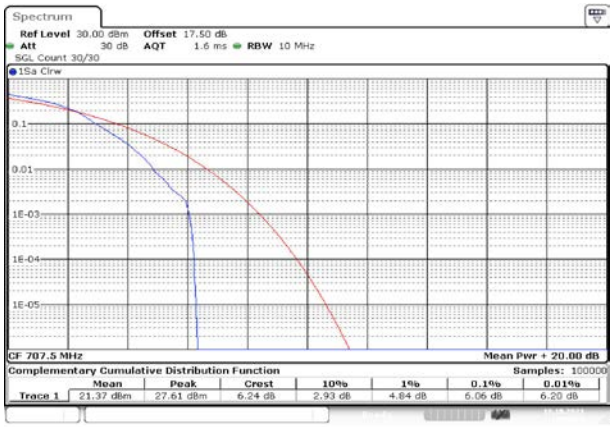


Fig.29

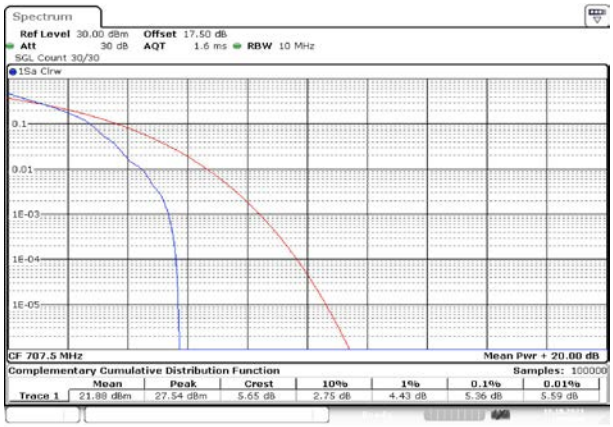


Fig.30

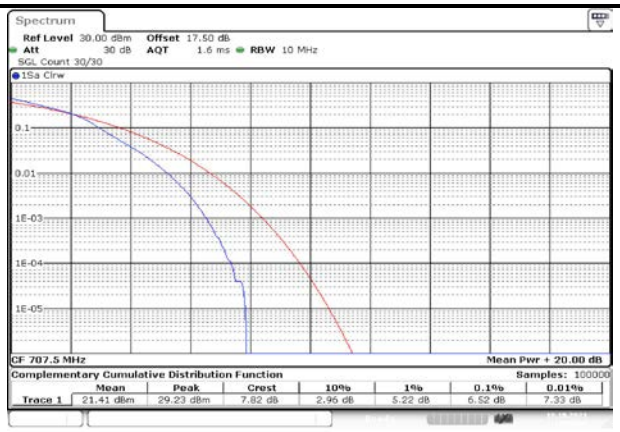


Fig.31

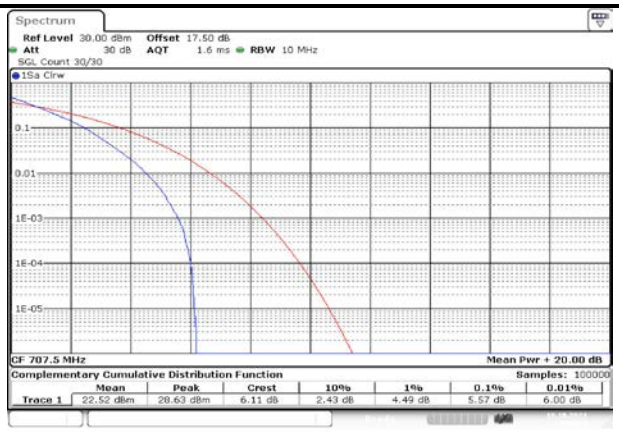


Fig.32

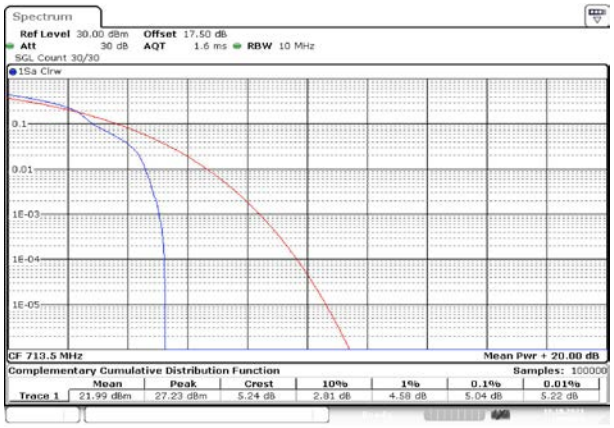


Fig.33

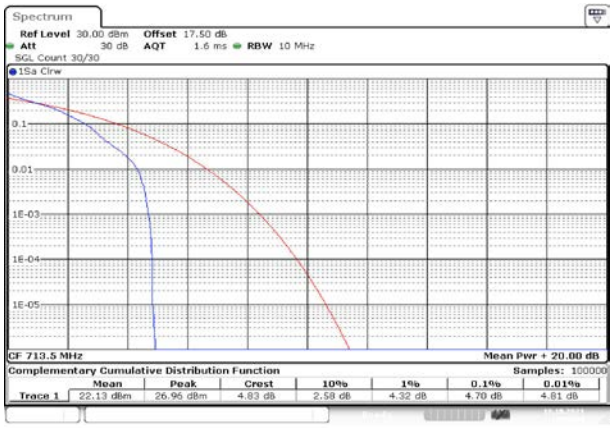


Fig.34

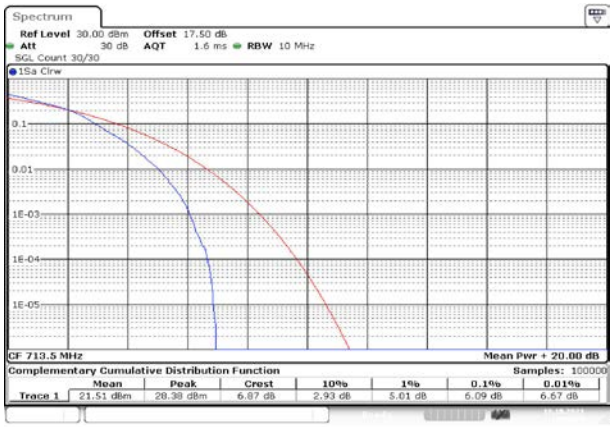


Fig.35

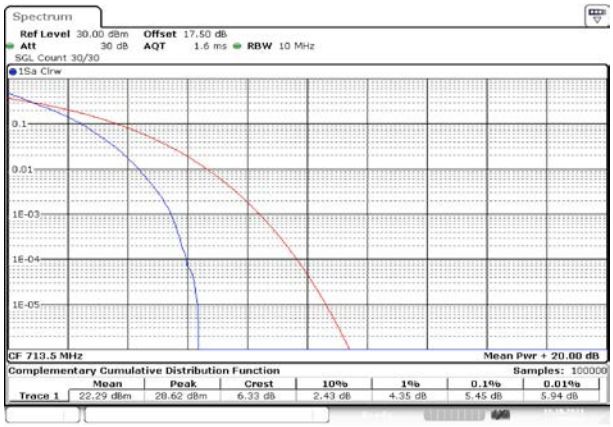


Fig.36

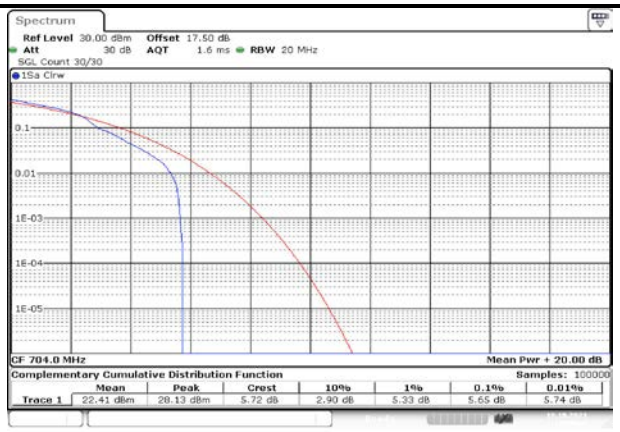


Fig.37

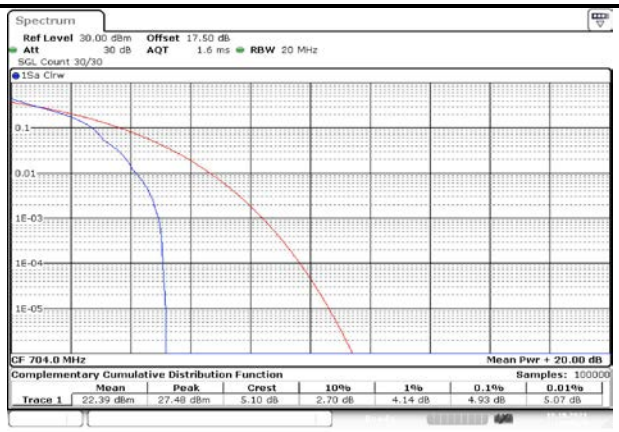


Fig.38

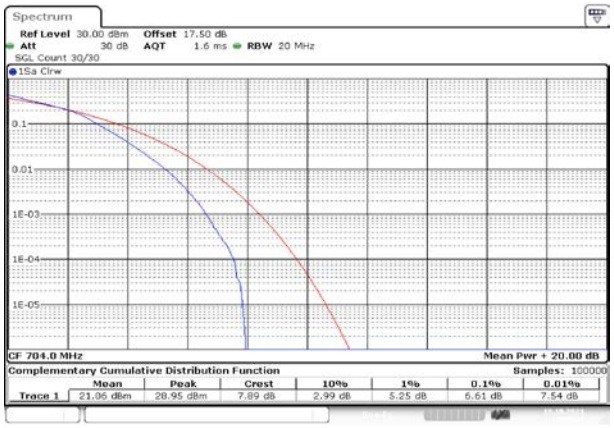


Fig.39

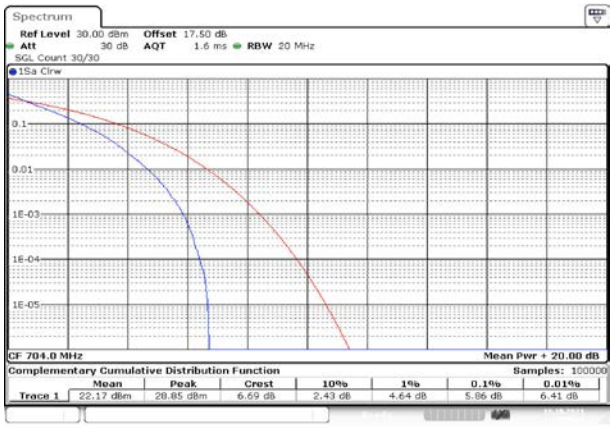


Fig.40

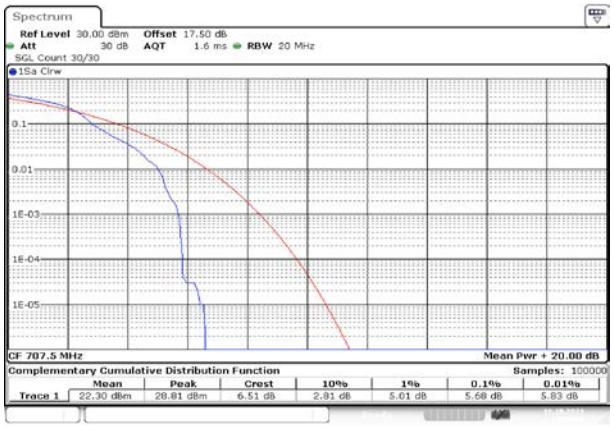


Fig.41

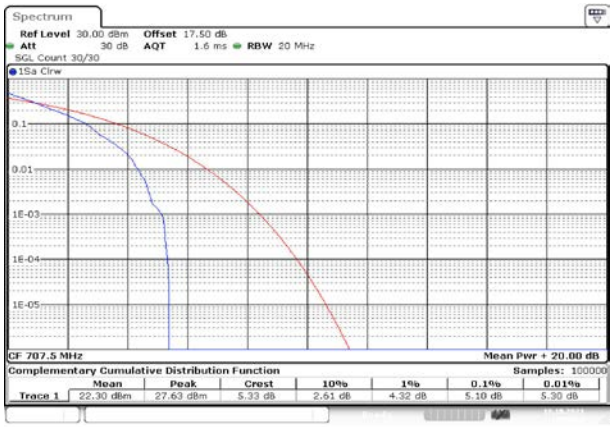


Fig.42

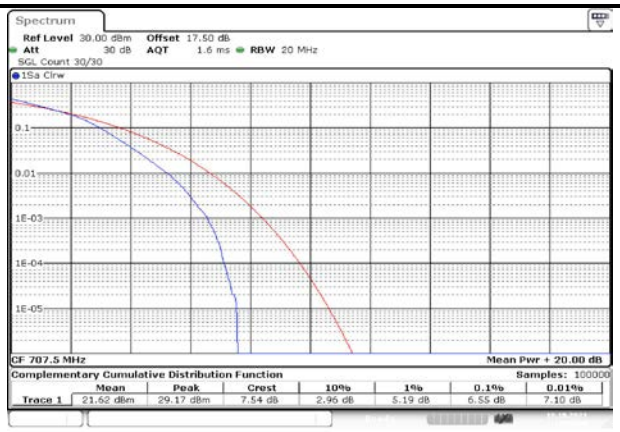


Fig.43

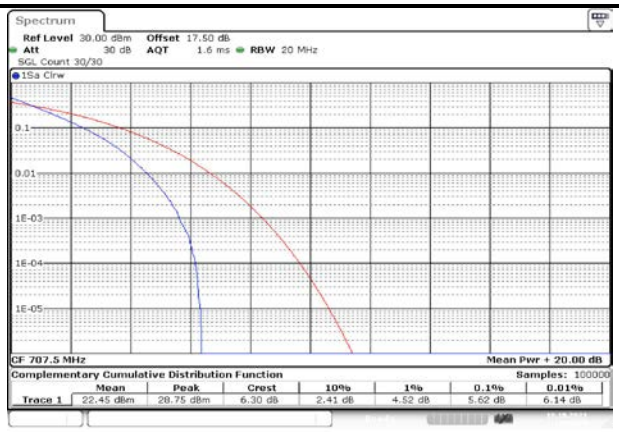


Fig.44

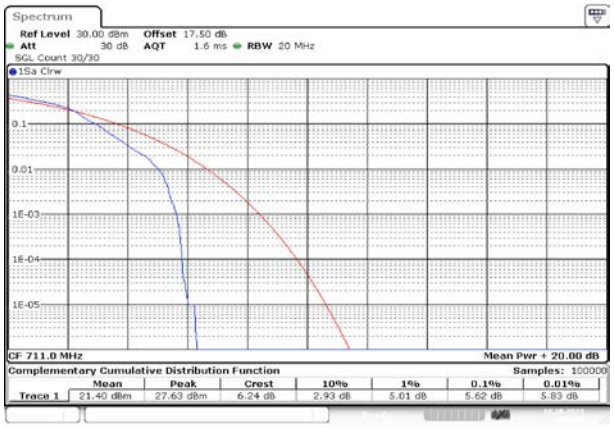


Fig.45

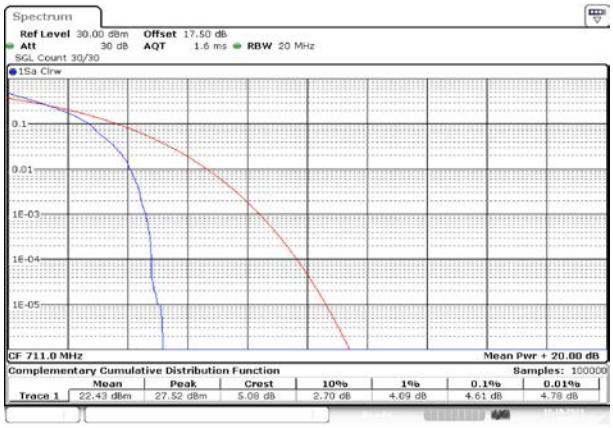


Fig.46

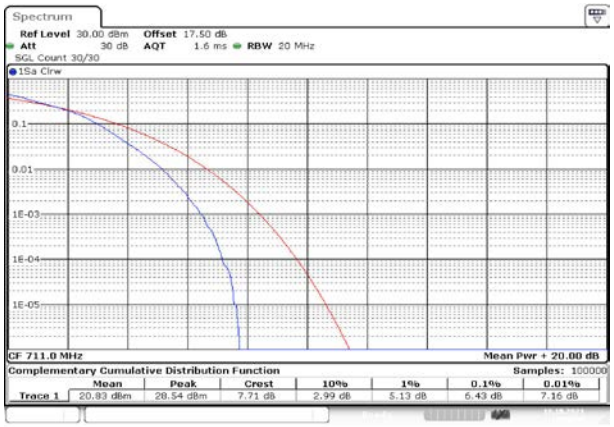


Fig.47

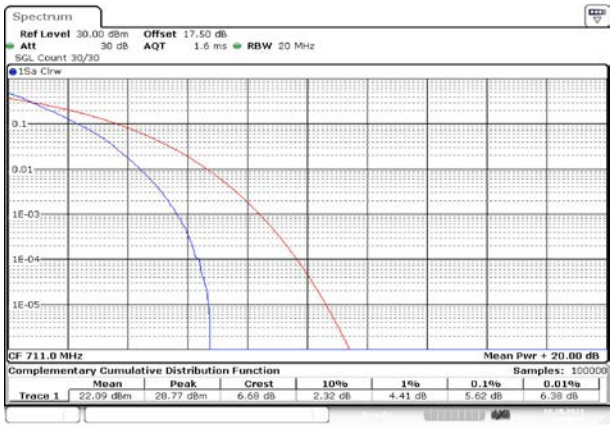


Fig.48

## 5 Spurious Emissions at antenna terminal

| Band | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Conducted Spurious Plot |
|---|---|---|---|---|---|---|
| | | | | | | QPSK |
| 12 | 704 | 23060 | 10 | 1 | 0 | Fig.1 |
| | 707.5 | 23095 | | 1 | 0 | Fig.2 |
| | 711 | 23130 | | 1 | 0 | Fig.3 |

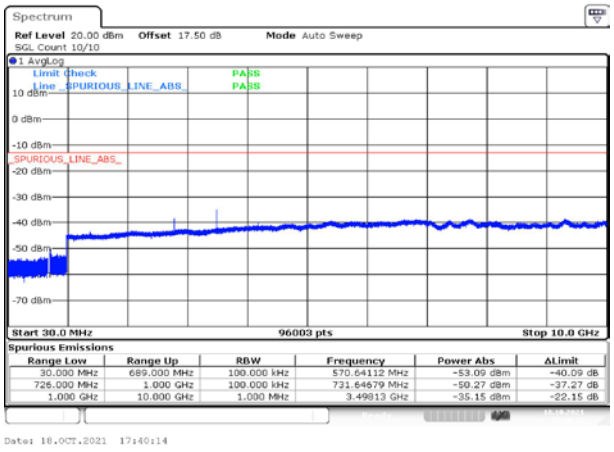


Fig.1

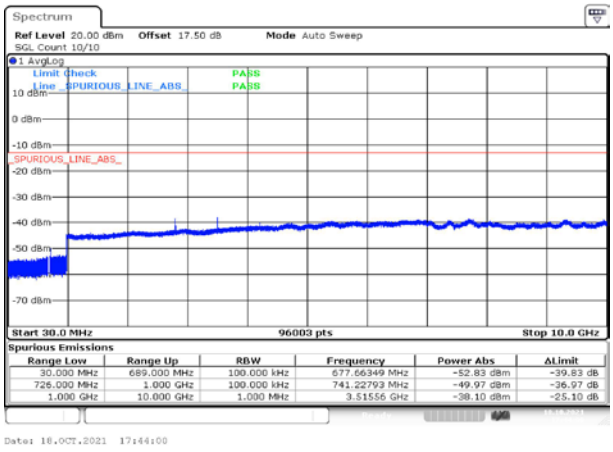


Fig.2

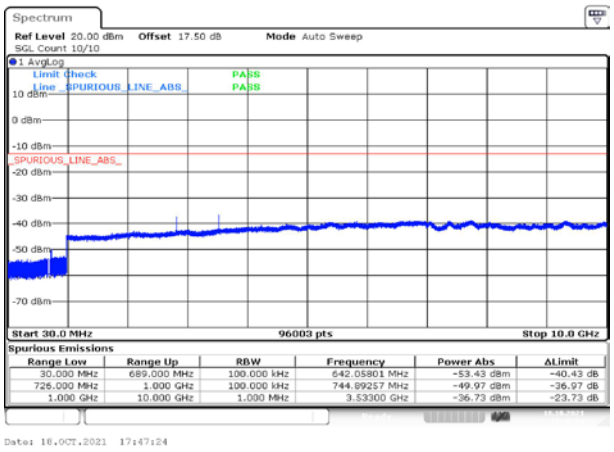


Fig.3

## 6 Band Edges Compliance

| Band | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Band Edges Plot |
|---|---|---|---|---|---|---|
| | | | | | | QPSK |
| 12 | 699.7 | 23017 | 1.4 | 1 | 0 | Fig.1 |
| | | | | 6 | 0 | Fig.2 |
| | 715.3 | 23173 | | 1 | 5 | Fig.3 |
| | | | | 6 | 0 | Fig.4 |
| | 700.5 | 23025 | 3 | 1 | 0 | Fig.5 |
| | | | | 15 | 0 | Fig.6 |
| | 714.5 | 23165 | | 1 | 14 | Fig.7 |
| | | | | 15 | 0 | Fig.8 |
| | 701.5 | 23035 | 5 | 1 | 0 | Fig.9 |
| | | | | 25 | 0 | Fig.10 |
| | 713.5 | 23155 | | 1 | 24 | Fig.11 |
| | | | | 25 | 0 | Fig.12 |
| | 704 | 23060 | 10 | 1 | 0 | Fig.13 |
| | | | | 50 | 0 | Fig.14 |
| | 711 | 23130 | | 1 | 49 | Fig.15 |
| | | | | 50 | 0 | Fig.16 |

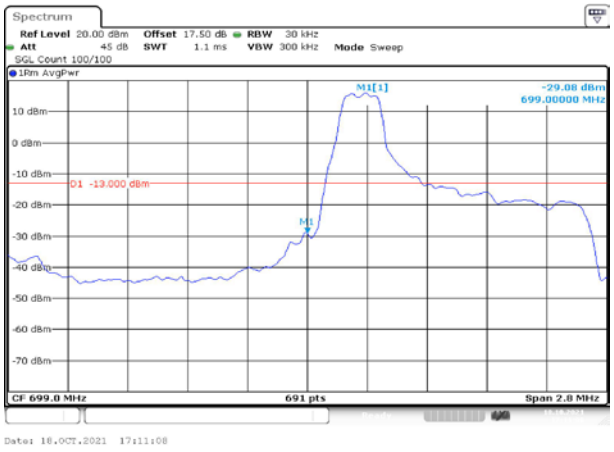


Fig.1

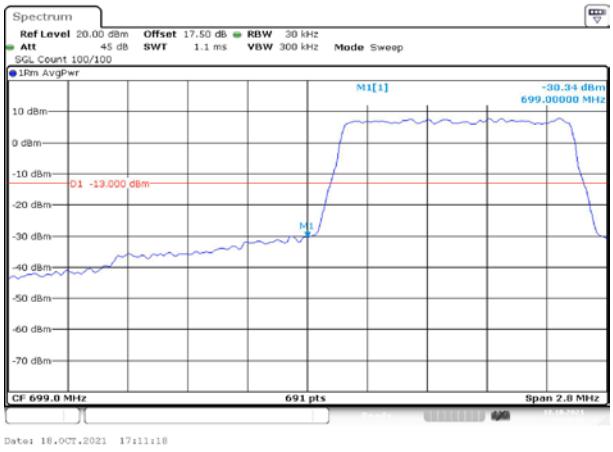


Fig.2

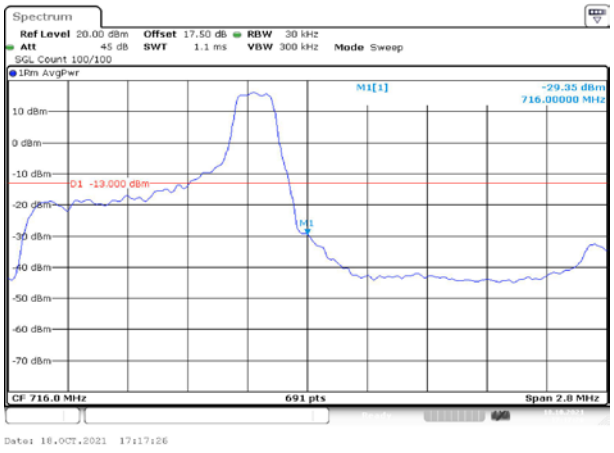


Fig.3

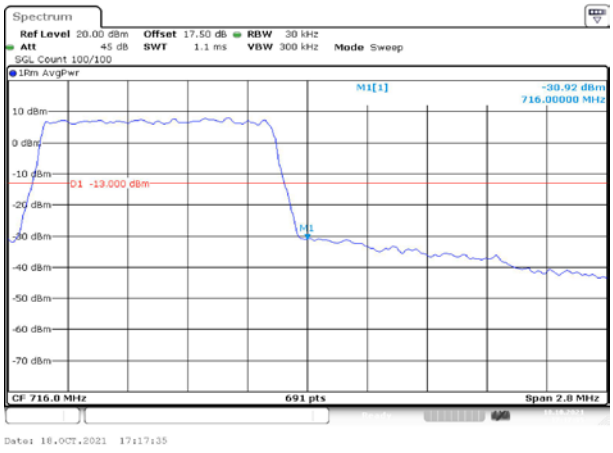


Fig.4

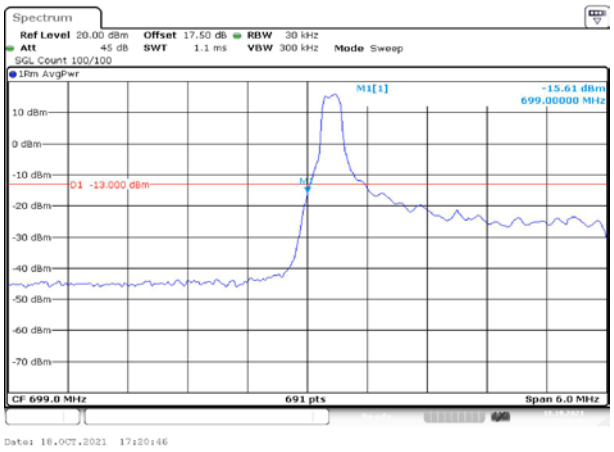


Fig.5

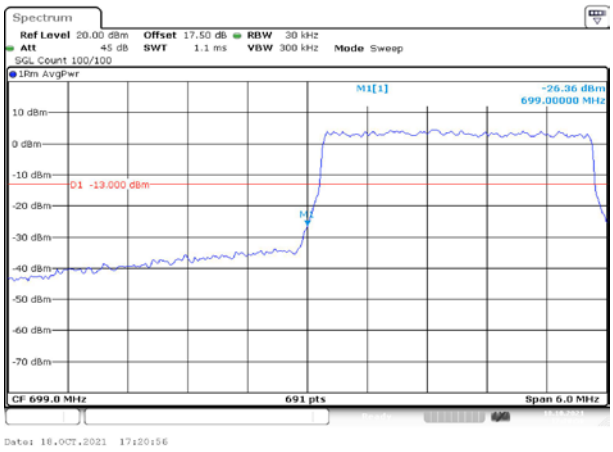


Fig.6

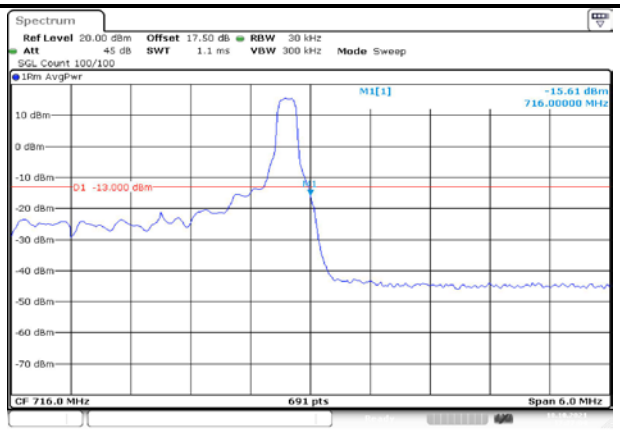


Fig.7

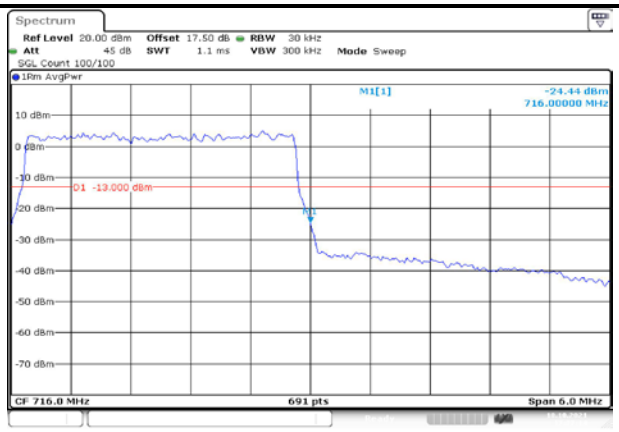


Fig.8

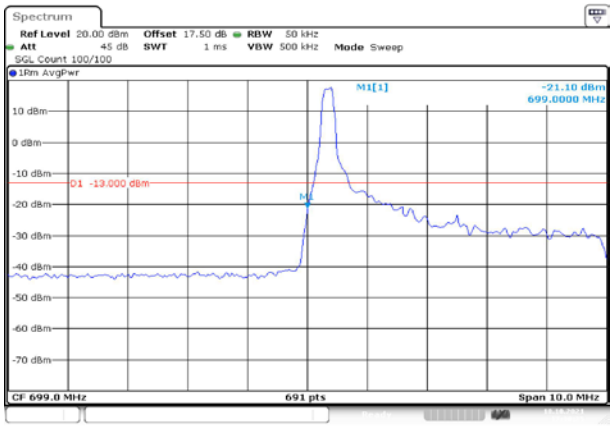


Fig.9

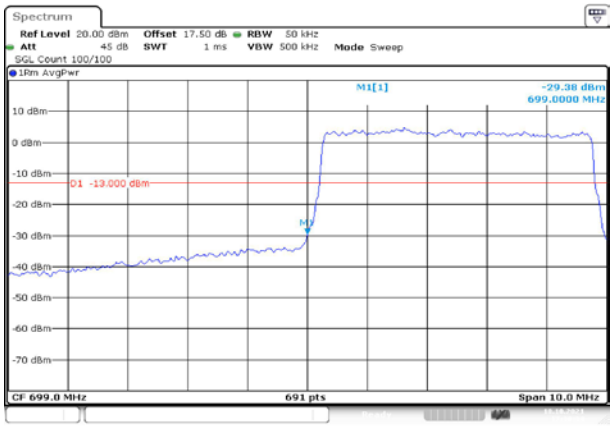


Fig.10

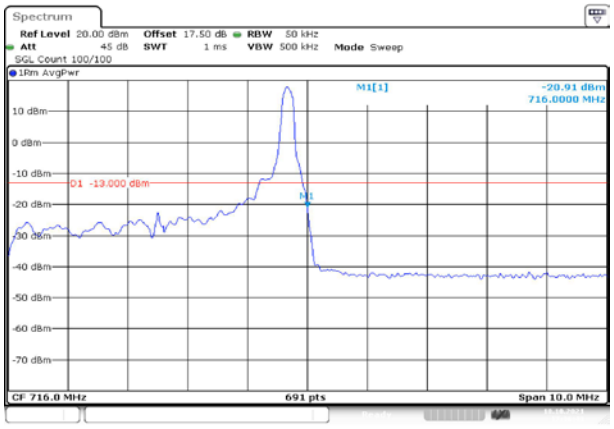


Fig.11

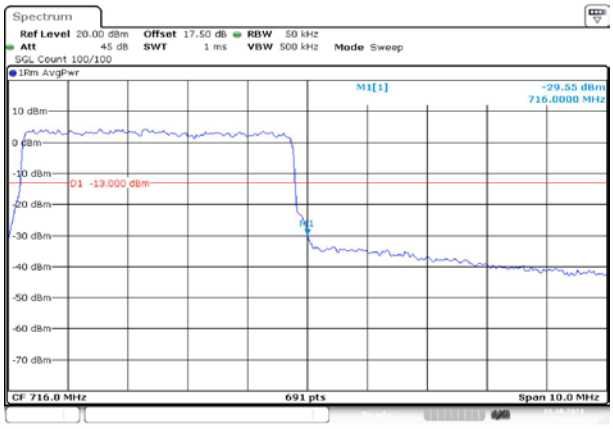


Fig.12

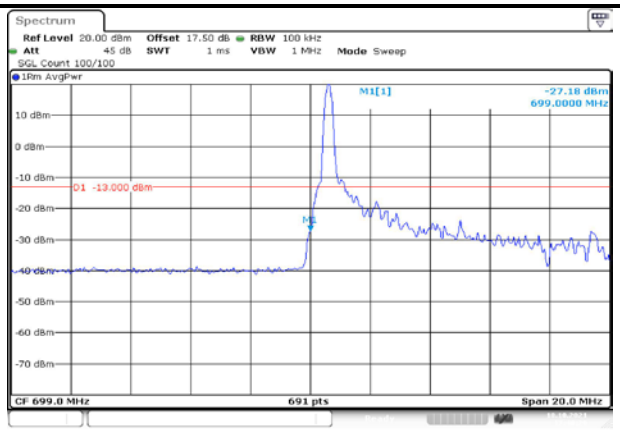


Fig.13

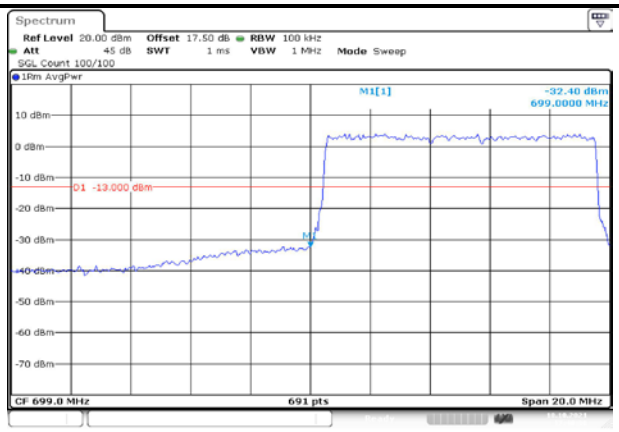


Fig.14

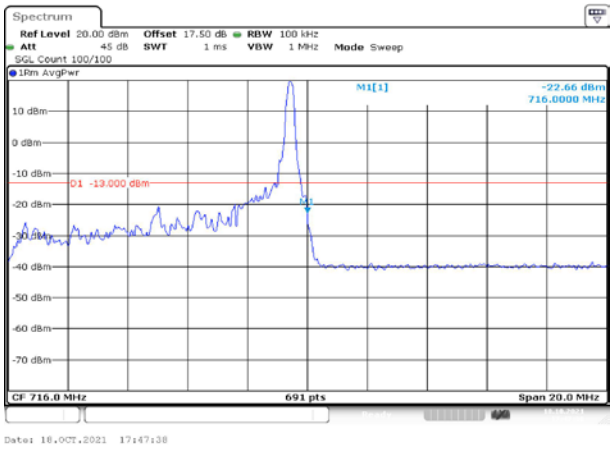


Fig.15

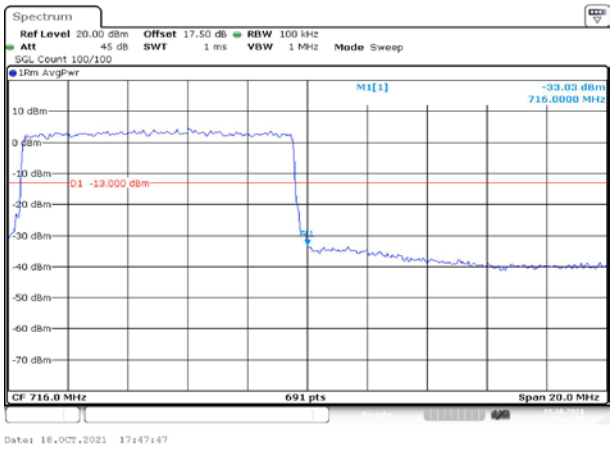


Fig.16

## 7 Frequency Stability

| Temperature(°C) | Voltage | Test Result (ppm) Band 12 Low Channel QPSK | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1.4M | 3M | 5M | 10M | 15M | 20M |
| -30 | NV | -0.026 | 0.050 | -0.039 | 0.019 | --- | --- |
| -20 | NV | 0.050 | -0.049 | 0.011 | 0.004 | --- | --- |
| -10 | NV | -0.038 | 0.021 | -0.016 | 0.017 | --- | --- |
| 0 | NV | 0.026 | 0.014 | -0.039 | -0.011 | --- | --- |
| +10 | NV | -0.020 | -0.045 | -0.007 | 0.044 | --- | --- |
| +30 | NV | -0.024 | -0.033 | -0.027 | 0.019 | --- | --- |
| +40 | NV | -0.016 | 0.020 | -0.004 | 0.000 | --- | --- |
| +50 | NV | 0.045 | 0.034 | -0.034 | 0.017 | --- | --- |
| +20 | LV | -0.022 | 0.016 | -0.043 | -0.016 | --- | --- |
| +20 | HV | -0.035 | -0.030 | -0.008 | 0.034 | --- | --- |

| Temperature(°C) | Voltage | Test Result (ppm) Band 12 High Channel QPSK | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1.4M | 3M | 5M | 10M | 15M | 20M |
| -30 | NV | 0.026 | -0.010 | -0.009 | 0.022 | --- | --- |
| -20 | NV | 0.012 | -0.041 | -0.005 | 0.030 | --- | --- |
| -10 | NV | -0.014 | -0.028 | 0.021 | 0.000 | --- | --- |
| 0 | NV | -0.036 | -0.017 | 0.011 | 0.020 | --- | --- |
| +10 | NV | -0.020 | 0.038 | 0.017 | 0.003 | --- | --- |
| +30 | NV | -0.043 | 0.020 | -0.049 | -0.014 | --- | --- |
| +40 | NV | -0.047 | 0.032 | 0.023 | 0.027 | --- | --- |
| +50 | NV | 0.026 | 0.047 | 0.031 | -0.064 | --- | --- |
| +20 | LV | -0.019 | -0.050 | 0.000 | -0.005 | --- | --- |
| +20 | HV | 0.034 | 0.019 | 0.035 | -0.012 | --- | --- |

## 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) |
|---|---|---|---|---|---|---|---|---|
| 16QAM | 699.7 | 23017 | 1.4 | 1 | 0 | 23.54 | 18.99 | 0.079 |
| | | | | 1 | 3 | 23.50 | 18.95 | 0.079 |
| | | | | 1 | 5 | 23.45 | 18.90 | 0.078 |
| | | | | 3 | 0 | 23.54 | 18.99 | 0.079 |
| | | | | 3 | 1 | 23.30 | 18.75 | 0.075 |
| | | | | 3 | 3 | 23.45 | 18.90 | 0.078 |
| | | | | 6 | 0 | 22.55 | 18.00 | 0.063 |
| | 707.5 | 23095 | | 1 | 0 | 23.88 | 19.33 | 0.086 |
| | | | | 1 | 3 | 24.09 | 19.54 | 0.090 |
| | | | | 1 | 5 | 24.04 | 19.49 | 0.089 |
| | | | | 3 | 0 | 23.70 | 19.15 | 0.082 |
| | | | | 3 | 1 | 23.66 | 19.11 | 0.081 |
| | | | | 3 | 3 | 23.66 | 19.11 | 0.081 |
| | | | | 6 | 0 | 22.92 | 18.37 | 0.069 |
| | 715.3 | 23173 | | 1 | 0 | 22.93 | 18.38 | 0.069 |
| | | | | 1 | 3 | 22.85 | 18.30 | 0.068 |
| | | | | 1 | 5 | 22.84 | 18.29 | 0.067 |
| | | | | 3 | 0 | 23.28 | 18.73 | 0.075 |
| | | | | 3 | 1 | 23.22 | 18.67 | 0.074 |
| | | | | 3 | 3 | 23.25 | 18.70 | 0.074 |
| | | | | 6 | 0 | 22.53 | 17.98 | 0.063 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|---|---|---|---|---|---|---|---|---|
| QPSK | 699.7 | 23017 | 1.4 | 1 | 0 | 23.89 | 19.34 | 0.086 |
| | | | | 1 | 3 | 23.80 | 19.25 | 0.084 |
| | | | | 1 | 5 | 23.90 | 19.35 | 0.086 |
| | | | | 3 | 0 | 23.84 | 19.29 | 0.085 |
| | | | | 3 | 1 | 23.81 | 19.26 | 0.084 |
| | | | | 3 | 3 | 23.78 | 19.23 | 0.084 |
| | | | | 6 | 0 | 23.39 | 18.84 | 0.077 |
| | 707.5 | 23095 | | 1 | 0 | 24.01 | 19.46 | 0.088 |
| | | | | 1 | 3 | 23.76 | 19.21 | 0.083 |
| | | | | 1 | 5 | 23.86 | 19.31 | 0.085 |
| | | | | 3 | 0 | 23.87 | 19.32 | 0.086 |
| | | | | 3 | 1 | 23.43 | 18.88 | 0.077 |
| | | | | 3 | 3 | 23.87 | 19.32 | 0.086 |
| | | | | 6 | 0 | 23.64 | 19.09 | 0.081 |
| | 715.3 | 23173 | | 1 | 0 | 24.07 | 19.52 | 0.090 |
| | | | | 1 | 3 | 23.95 | 19.40 | 0.087 |
| | | | | 1 | 5 | 24.18 | 19.63 | 0.092 |
| | | | | 3 | 0 | 23.63 | 19.08 | 0.081 |
| | | | | 3 | 1 | 23.71 | 19.16 | 0.082 |
| | | | | 3 | 3 | 23.69 | 19.14 | 0.082 |
| | | | | 6 | 0 | 23.09 | 18.54 | 0.071 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|---|---|---|---|---|---|---|---|---|
| 16QAM | 700.5 | 23025 | 3 | 1 | 0 | 23.30 | 18.75 | 0.075 |
| | | | | 1 | 8 | 23.38 | 18.83 | 0.076 |
| | | | | 1 | 14 | 23.31 | 18.76 | 0.075 |
| | | | | 8 | 0 | 22.24 | 17.69 | 0.059 |
| | | | | 8 | 4 | 22.40 | 17.85 | 0.061 |
| | | | | 8 | 7 | 22.31 | 17.76 | 0.060 |
| | | | | 15 | 0 | 22.68 | 18.13 | 0.065 |
| | 707.5 | 23095 | | 1 | 0 | 23.73 | 19.18 | 0.083 |
| | | | | 1 | 8 | 24.05 | 19.50 | 0.089 |
| | | | | 1 | 14 | 24.04 | 19.49 | 0.089 |
| | | | | 8 | 0 | 22.26 | 17.71 | 0.059 |
| | | | | 8 | 4 | 22.60 | 18.05 | 0.064 |
| | | | | 8 | 7 | 22.61 | 18.06 | 0.064 |
| | | | | 15 | 0 | 22.65 | 18.10 | 0.065 |
| | 714.5 | 23165 | | 1 | 0 | 23.04 | 18.49 | 0.071 |
| | | | | 1 | 8 | 22.96 | 18.41 | 0.069 |
| | | | | 1 | 14 | 22.79 | 18.24 | 0.067 |
| | | | | 8 | 0 | 22.42 | 17.87 | 0.061 |
| | | | | 8 | 4 | 22.31 | 17.76 | 0.060 |
| | | | | 8 | 7 | 22.34 | 17.79 | 0.060 |
| | | | | 15 | 0 | 22.40 | 17.85 | 0.061 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|---|---|---|---|---|---|---|---|---|
| QPSK | 700.5 | 23025 | 3 | 1 | 0 | 24.07 | 19.52 | 0.090 |
| | | | | 1 | 8 | 24.03 | 19.48 | 0.089 |
| | | | | 1 | 14 | 24.06 | 19.51 | 0.089 |
| | | | | 8 | 0 | 23.36 | 18.81 | 0.076 |
| | | | | 8 | 4 | 23.24 | 18.69 | 0.074 |
| | | | | 8 | 7 | 23.33 | 18.78 | 0.076 |
| | | | | 15 | 0 | 23.15 | 18.60 | 0.072 |
| | 707.5 | 23095 | | 1 | 0 | 23.96 | 19.41 | 0.087 |
| | | | | 1 | 8 | 23.81 | 19.26 | 0.084 |
| | | | | 1 | 14 | 23.89 | 19.34 | 0.086 |
| | | | | 8 | 0 | 23.38 | 18.83 | 0.076 |
| | | | | 8 | 4 | 23.58 | 19.03 | 0.080 |
| | | | | 8 | 7 | 23.45 | 18.90 | 0.078 |
| | | | | 15 | 0 | 23.48 | 18.93 | 0.078 |
| | 714.5 | 23165 | | 1 | 0 | 24.14 | 19.59 | 0.091 |
| | | | | 1 | 8 | 24.07 | 19.52 | 0.090 |
| | | | | 1 | 14 | 24.17 | 19.62 | 0.092 |
| | | | | 8 | 0 | 23.34 | 18.79 | 0.076 |
| | | | | 8 | 4 | 23.25 | 18.70 | 0.074 |
| | | | | 8 | 7 | 23.07 | 18.52 | 0.071 |
| | | | | 15 | 0 | 23.29 | 18.74 | 0.075 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|---|---|---|---|---|---|---|---|---|
| 16QAM | 701.5 | 23035 | 5 | 1 | 0 | 22.87 | 18.32 | 0.068 |
| | | | | 1 | 12 | 22.76 | 18.21 | 0.066 |
| | | | | 1 | 24 | 22.79 | 18.24 | 0.067 |
| | | | | 12 | 0 | 22.28 | 17.73 | 0.059 |
| | | | | 12 | 7 | 22.09 | 17.54 | 0.057 |
| | | | | 12 | 13 | 22.01 | 17.46 | 0.056 |
| | | | | 25 | 0 | 22.38 | 17.83 | 0.061 |
| | 707.5 | 23095 | | 1 | 0 | 23.39 | 18.84 | 0.077 |
| | | | | 1 | 12 | 23.54 | 18.99 | 0.079 |
| | | | | 1 | 24 | 23.02 | 18.47 | 0.070 |
| | | | | 12 | 0 | 21.78 | 17.23 | 0.053 |
| | | | | 12 | 7 | 22.36 | 17.81 | 0.060 |
| | | | | 12 | 13 | 22.40 | 17.85 | 0.061 |
| | | | | 25 | 0 | 22.62 | 18.07 | 0.064 |
| | 713.5 | 23155 | | 1 | 0 | 23.58 | 19.03 | 0.080 |
| | | | | 1 | 12 | 23.63 | 19.08 | 0.081 |
| | | | | 1 | 24 | 23.32 | 18.77 | 0.075 |
| | | | | 12 | 0 | 22.08 | 17.53 | 0.057 |
| | | | | 12 | 7 | 22.36 | 17.81 | 0.060 |
| | | | | 12 | 13 | 22.35 | 17.80 | 0.060 |
| | | | | 25 | 0 | 22.55 | 18.00 | 0.063 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|---|---|---|---|---|---|---|---|---|
| QPSK | 701.5 | 23035 | 5 | 1 | 0 | 23.93 | 19.38 | 0.087 |
| | | | | 1 | 12 | 23.92 | 19.37 | 0.086 |
| | | | | 1 | 24 | 23.99 | 19.44 | 0.088 |
| | | | | 12 | 0 | 23.36 | 18.81 | 0.076 |
| | | | | 12 | 7 | 23.38 | 18.83 | 0.076 |
| | | | | 12 | 13 | 23.34 | 18.79 | 0.076 |
| | | | | 25 | 0 | 23.34 | 18.79 | 0.076 |
| | 707.5 | 23095 | | 1 | 0 | 23.75 | 19.20 | 0.083 |
| | | | | 1 | 12 | 23.84 | 19.29 | 0.085 |
| | | | | 1 | 24 | 23.54 | 18.99 | 0.079 |
| | | | | 12 | 0 | 23.43 | 18.88 | 0.077 |
| | | | | 12 | 7 | 23.53 | 18.98 | 0.079 |
| | | | | 12 | 13 | 23.59 | 19.04 | 0.080 |
| | | | | 25 | 0 | 23.63 | 19.08 | 0.081 |
| | 713.5 | 23155 | | 1 | 0 | 23.78 | 19.23 | 0.084 |
| | | | | 1 | 12 | 23.82 | 19.27 | 0.085 |
| | | | | 1 | 24 | 23.77 | 19.22 | 0.084 |
| | | | | 12 | 0 | 23.03 | 18.48 | 0.070 |
| | | | | 12 | 7 | 23.29 | 18.74 | 0.075 |
| | | | | 12 | 13 | 23.34 | 18.79 | 0.076 |
| | | | | 25 | 0 | 23.06 | 18.51 | 0.071 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|---|---|---|---|---|---|---|---|---|
| 16QAM | 704 | 23060 | 10 | 1 | 0 | 24.00 | 19.45 | 0.088 |
| | | | | 1 | 25 | 24.20 | 19.65 | 0.092 |
| | | | | 1 | 49 | 24.28 | 19.73 | 0.094 |
| | | | | 25 | 0 | 22.34 | 17.79 | 0.060 |
| | | | | 25 | 12 | 22.33 | 17.78 | 0.060 |
| | | | | 25 | 25 | 22.20 | 17.65 | 0.058 |
| | | | | 50 | 0 | 22.28 | 17.73 | 0.059 |
| | 707.5 | 23095 | | 1 | 0 | 23.85 | 19.30 | 0.085 |
| | | | | 1 | 25 | 24.02 | 19.47 | 0.089 |
| | | | | 1 | 49 | 24.01 | 19.46 | 0.088 |
| | | | | 25 | 0 | 22.24 | 17.69 | 0.059 |
| | | | | 25 | 12 | 22.66 | 18.11 | 0.065 |
| | | | | 25 | 25 | 22.17 | 17.62 | 0.058 |
| | | | | 50 | 0 | 22.59 | 18.04 | 0.064 |
| | 711 | 23130 | | 1 | 0 | 23.64 | 19.09 | 0.081 |
| | | | | 1 | 25 | 23.42 | 18.87 | 0.077 |
| | | | | 1 | 49 | 23.38 | 18.83 | 0.076 |
| | | | | 25 | 0 | 22.64 | 18.09 | 0.064 |
| | | | | 25 | 12 | 22.20 | 17.65 | 0.058 |
| | | | | 25 | 25 | 22.65 | 18.10 | 0.065 |
| | | | | 50 | 0 | 22.03 | 17.48 | 0.056 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|---|---|---|---|---|---|---|---|---|
| QPSK | 704 | 23060 | 10 | 1 | 0 | 23.97 | 19.42 | 0.087 |
| | | | | 1 | 25 | 24.06 | 19.51 | 0.089 |
| | | | | 1 | 49 | 23.87 | 19.32 | 0.086 |
| | | | | 25 | 0 | 23.38 | 18.83 | 0.076 |
| | | | | 25 | 12 | 23.36 | 18.81 | 0.076 |
| | | | | 25 | 25 | 23.25 | 18.70 | 0.074 |
| | | | | 50 | 0 | 23.26 | 18.71 | 0.074 |
| | 707.5 | 23095 | | 1 | 0 | 24.08 | 19.53 | 0.090 |
| | | | | 1 | 25 | 23.63 | 19.08 | 0.081 |
| | | | | 1 | 49 | 23.86 | 19.31 | 0.085 |
| | | | | 25 | 0 | 23.39 | 18.84 | 0.077 |
| | | | | 25 | 12 | 23.51 | 18.96 | 0.079 |
| | | | | 25 | 25 | 23.16 | 18.61 | 0.073 |
| | | | | 50 | 0 | 23.46 | 18.91 | 0.078 |
| | 711 | 23130 | | 1 | 0 | 23.86 | 19.31 | 0.085 |
| | | | | 1 | 25 | 23.64 | 19.09 | 0.081 |
| | | | | 1 | 49 | 23.95 | 19.40 | 0.087 |
| | | | | 25 | 0 | 23.49 | 18.94 | 0.078 |
| | | | | 25 | 12 | 23.08 | 18.53 | 0.071 |
| | | | | 25 | 25 | 23.15 | 18.60 | 0.072 |
| | | | | 50 | 0 | 23.21 | 18.66 | 0.073 |