

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 5

1 RF Power Output

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|-----|---------|-----------|-----------------------|
| QPSK | 824.7 | 20407 | 1.4 | 1 | 0 | 22.68 |
| | | | | 1 | 3 | 22.82 |
| | | | | 1 | 5 | 22.81 |
| | | | | 3 | 0 | 22.70 |
| | | | | 3 | 1 | 22.80 |
| | | | | 3 | 3 | 22.72 |
| | 6 | 0 | | 21.85 | | |
| | 836.5 | 20525 | | 1 | 0 | 22.83 |
| | | | | 1 | 3 | 22.98 |
| | | | | 1 | 5 | 22.99 |
| | | | | 3 | 0 | 22.66 |
| | | | | 3 | 1 | 22.69 |
| | | | | 3 | 3 | 22.81 |
| | 848.3 | 20643 | | 6 | 0 | 21.96 |
| | | | | 1 | 0 | 22.92 |
| | | | | 1 | 3 | 23.02 |
| | | | | 1 | 5 | 23.01 |
| | | | | 3 | 0 | 22.97 |
| 3 | | | 1 | 22.99 | | |
| 16QAM | 824.7 | 20407 | 3 | 3 | 22.96 | |
| | | | 6 | 0 | 22.00 | |
| | | | 1 | 0 | 21.85 | |
| | | | 1 | 3 | 21.96 | |
| | | | 1 | 5 | 21.97 | |
| | | | 3 | 0 | 21.74 | |
| | 836.5 | 20525 | 3 | 1 | 21.90 | |
| | | | 3 | 3 | 21.83 | |
| | | | 6 | 0 | 20.77 | |
| | | | 1 | 0 | 21.78 | |
| | | | 1 | 3 | 21.94 | |
| | | | 1 | 5 | 21.93 | |
| | 848.3 | 20643 | 3 | 0 | 21.92 | |
| | | | 3 | 1 | 21.99 | |
| | | | 3 | 3 | 22.06 | |
| | | | 6 | 0 | 20.84 | |
| | | | 1 | 0 | 22.13 | |
| | | | 1 | 3 | 22.15 | |
| | | | 1 | 5 | 22.15 | |
| | | | 3 | 0 | 22.01 | |
| | | | 3 | 1 | 21.97 | |
| | | | 3 | 3 | 21.93 | |
| | | | 6 | 0 | 21.09 | |
| | | | | | | |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|-----|---------|-----------|-----------------------|
| 64QAM | 824.7 | 20407 | 1.4 | 1 | 0 | 20.78 |
| | | | | 1 | 3 | 20.75 |
| | | | | 1 | 5 | 20.71 |
| | | | | 3 | 0 | 20.77 |
| | | | | 3 | 1 | 20.71 |
| | | | | 3 | 3 | 20.71 |
| | 6 | 0 | | 20.68 | | |
| | 836.5 | 20525 | | 1 | 0 | 20.85 |
| | | | | 1 | 3 | 20.89 |
| | | | | 1 | 5 | 20.86 |
| | | | | 3 | 0 | 20.89 |
| | | | | 3 | 1 | 20.92 |
| | | | | 3 | 3 | 20.84 |
| | 6 | 0 | | 20.92 | | |
| | 848.3 | 20643 | | 1 | 0 | 21.09 |
| | | | | 1 | 3 | 21.10 |
| | | | | 1 | 5 | 21.09 |
| | | | | 3 | 0 | 21.10 |
| | | | | 3 | 1 | 21.11 |
| | | | | 3 | 3 | 21.10 |
| | | | | 6 | 0 | 21.10 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|-------|
| QPSK | 825.5 | 20415 | 3 | 1 | 0 | 22.73 | |
| | | | | 1 | 8 | 22.82 | |
| | | | | 1 | 14 | 22.81 | |
| | | | | 8 | 0 | 21.92 | |
| | | | | 8 | 4 | 21.93 | |
| | | | | 8 | 7 | 22.00 | |
| | | | | 15 | 0 | 21.92 | |
| | 836.5 | 20525 | | 1 | 0 | 22.85 | |
| | | | | 1 | 8 | 23.10 | |
| | | | | 1 | 14 | 23.12 | |
| | | | | 8 | 0 | 21.91 | |
| | | | | 8 | 4 | 22.12 | |
| | | | | 8 | 7 | 22.07 | |
| | | | | 15 | 0 | 21.92 | |
| | 847.5 | 20635 | | 1 | 0 | 22.86 | |
| | | | | 1 | 8 | 23.02 | |
| | | | | 1 | 14 | 23.04 | |
| | | | | 8 | 0 | 22.03 | |
| | | | | 8 | 4 | 22.13 | |
| | | | | 8 | 7 | 22.12 | |
| | | | | 15 | 0 | 22.02 | |
| | 16QAM | 825.5 | | 20415 | 1 | 0 | 22.27 |
| | | | | | 1 | 8 | 22.50 |
| | | | | | 1 | 14 | 22.48 |
| | | | | | 8 | 0 | 21.07 |
| | | | | | 8 | 4 | 21.09 |
| | | | | | 8 | 7 | 21.10 |
| 15 | | | 0 | | 21.00 | | |
| 836.5 | | 20525 | 1 | 0 | 21.94 | | |
| | | | 1 | 8 | 22.11 | | |
| | | | 1 | 14 | 22.12 | | |
| | | | 8 | 0 | 20.87 | | |
| | | | 8 | 4 | 21.01 | | |
| | | | 8 | 7 | 21.01 | | |
| | | | 15 | 0 | 20.82 | | |
| 847.5 | | 20635 | 1 | 0 | 22.05 | | |
| | | | 1 | 8 | 22.19 | | |
| | | | 1 | 14 | 22.26 | | |
| | | | 8 | 0 | 21.08 | | |
| | | | 8 | 4 | 21.14 | | |
| | | | 8 | 7 | 21.20 | | |
| | | | 15 | 0 | 21.14 | | |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| 64QAM | 825.5 | 20415 | 3 | 1 | 0 | 20.99 |
| | | | | 1 | 8 | 21.01 |
| | | | | 1 | 14 | 20.91 |
| | | | | 8 | 0 | 20.97 |
| | | | | 8 | 4 | 20.94 |
| | | | | 8 | 7 | 21.01 |
| | | | | 15 | 0 | 21.02 |
| | 836.5 | 20525 | | 1 | 0 | 20.80 |
| | | | | 1 | 8 | 20.81 |
| | | | | 1 | 14 | 20.79 |
| | | | | 8 | 0 | 20.85 |
| | | | | 8 | 4 | 20.80 |
| | | | | 8 | 7 | 20.82 |
| | | | | 15 | 0 | 20.81 |
| | 847.5 | 20635 | | 1 | 0 | 21.14 |
| | | | | 1 | 8 | 21.12 |
| | | | | 1 | 14 | 21.13 |
| | | | | 8 | 0 | 21.13 |
| | | | | 8 | 4 | 21.12 |
| | | | | 8 | 7 | 21.13 |
| | | | | 15 | 0 | 21.11 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|-------|
| QPSK | 826.5 | 20425 | 5 | 1 | 0 | 22.78 | |
| | | | | 1 | 12 | 22.73 | |
| | | | | 1 | 24 | 22.78 | |
| | | | | 12 | 0 | 21.75 | |
| | | | | 12 | 7 | 21.88 | |
| | | | | 12 | 13 | 21.84 | |
| | 836.5 | 20525 | | 25 | 0 | 21.80 | |
| | | | | 1 | 0 | 22.80 | |
| | | | | 1 | 12 | 22.94 | |
| | | | | 1 | 24 | 22.89 | |
| | | | | 12 | 0 | 21.90 | |
| | | | | 12 | 7 | 22.04 | |
| | 846.5 | 20625 | | 12 | 13 | 22.04 | |
| | | | | 25 | 0 | 21.93 | |
| | | | | 1 | 0 | 22.89 | |
| | | | | 1 | 12 | 23.00 | |
| | | | | 1 | 24 | 22.97 | |
| | | | | 12 | 0 | 21.98 | |
| | 16QAM | 826.5 | | 20425 | 12 | 7 | 22.16 |
| | | | | | 12 | 13 | 22.09 |
| | | | | | 25 | 0 | 22.05 |
| | | | | | 1 | 0 | 21.97 |
| | | | | | 1 | 12 | 22.15 |
| | | | | | 1 | 24 | 22.13 |
| 836.5 | | 20525 | 12 | 0 | 20.78 | | |
| | | | 12 | 7 | 20.93 | | |
| | | | 12 | 13 | 20.94 | | |
| | | | 25 | 0 | 20.81 | | |
| | | | 1 | 0 | 21.81 | | |
| | | | 1 | 12 | 21.89 | | |
| 846.5 | | 20625 | 1 | 24 | 21.90 | | |
| | | | 12 | 0 | 20.82 | | |
| | | | 12 | 7 | 20.92 | | |
| | | | 12 | 13 | 21.00 | | |
| | | | 25 | 0 | 20.94 | | |
| | | | 1 | 0 | 22.28 | | |
| | | | | 1 | 12 | 22.36 | |
| | | | | 1 | 24 | 22.35 | |
| | | | | 12 | 0 | 21.06 | |
| | | | | 12 | 7 | 21.25 | |
| | | | | 12 | 13 | 21.24 | |
| | | | | 25 | 0 | 21.00 | |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| 64QAM | 826.5 | 20425 | 5 | 1 | 0 | 20.85 |
| | | | | 1 | 12 | 20.85 |
| | | | | 1 | 24 | 20.83 |
| | | | | 12 | 0 | 20.85 |
| | | | | 12 | 7 | 20.84 |
| | | | | 12 | 13 | 20.82 |
| | | | | 25 | 0 | 20.80 |
| | 836.5 | 20525 | | 1 | 0 | 20.93 |
| | | | | 1 | 12 | 20.91 |
| | | | | 1 | 24 | 20.93 |
| | | | | 12 | 0 | 20.91 |
| | | | | 12 | 7 | 20.90 |
| | | | | 12 | 13 | 20.95 |
| | | | | 25 | 0 | 20.97 |
| | 846.5 | 20625 | | 1 | 0 | 21.10 |
| | | | | 1 | 12 | 21.09 |
| | | | | 1 | 24 | 21.08 |
| | | | | 12 | 0 | 21.07 |
| | | | | 12 | 7 | 21.08 |
| | | | | 12 | 13 | 21.07 |
| | | | | 25 | 0 | 21.07 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 829 | 20450 | 10 | 1 | 0 | 22.89 |
| | | | | 1 | 25 | 22.80 |
| | | | | 1 | 49 | 22.82 |
| | | | | 25 | 0 | 21.89 |
| | | | | 25 | 12 | 21.85 |
| | | | | 25 | 25 | 21.81 |
| | 836.5 | 20525 | | 50 | 0 | 21.78 |
| | | | | 1 | 0 | 22.95 |
| | | | | 1 | 25 | 22.94 |
| | | | | 1 | 49 | 22.87 |
| | | | | 25 | 0 | 21.93 |
| | | | | 25 | 12 | 21.88 |
| | 844 | 20600 | | 25 | 25 | 21.91 |
| | | | | 50 | 0 | 21.97 |
| | | | | 1 | 0 | 23.11 |
| | | | | 1 | 25 | 22.91 |
| | | | | 1 | 49 | 22.95 |
| | | | | 25 | 0 | 22.02 |
| 16QAM | 829 | 20450 | 25 | 12 | 22.01 | |
| | | | 25 | 25 | 21.99 | |
| | | | 50 | 0 | 22.02 | |
| | | | 1 | 0 | 22.06 | |
| | | | 1 | 25 | 21.84 | |
| | | | 1 | 49 | 21.98 | |
| | 836.5 | 20525 | 25 | 0 | 20.96 | |
| | | | 25 | 12 | 20.98 | |
| | | | 25 | 25 | 21.01 | |
| | | | 50 | 0 | 20.89 | |
| | | | 1 | 0 | 21.98 | |
| | | | 1 | 25 | 22.04 | |
| | 844 | 20600 | 1 | 49 | 22.00 | |
| | | | 25 | 0 | 21.01 | |
| | | | 25 | 12 | 20.98 | |
| | | | 25 | 25 | 20.98 | |
| | | | 50 | 0 | 20.92 | |
| | | | 1 | 0 | 22.51 | |
| | | | 1 | 25 | 22.67 | |
| | | | 1 | 49 | 22.60 | |
| | | | 25 | 0 | 21.00 | |
| | | | 25 | 12 | 21.05 | |
| | | | 25 | 25 | 21.13 | |
| | | | 50 | 0 | 20.98 | |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| 64QAM | 829 | 20450 | 10 | 1 | 0 | 20.81 |
| | | | | 1 | 25 | 20.83 |
| | | | | 1 | 49 | 20.89 |
| | | | | 25 | 0 | 20.88 |
| | | | | 25 | 12 | 20.85 |
| | | | | 25 | 25 | 20.84 |
| | | | | 50 | 0 | 20.88 |
| | 836.5 | 20525 | | 1 | 0 | 21.01 |
| | | | | 1 | 25 | 20.90 |
| | | | | 1 | 49 | 20.89 |
| | | | | 25 | 0 | 20.89 |
| | | | | 25 | 12 | 20.96 |
| | | | | 25 | 25 | 20.92 |
| | | | | 50 | 0 | 20.86 |
| | 844 | 20600 | | 1 | 0 | 21.00 |
| | | | | 1 | 25 | 21.06 |
| | | | | 1 | 49 | 20.99 |
| | | | | 25 | 0 | 21.00 |
| | | | | 25 | 12 | 20.98 |
| | | | | 25 | 25 | 20.99 |
| | | | | 50 | 0 | 20.99 |

2 Occupied Bandwidth

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of 99% Power (MHz) | | | | | |
|------|-------------------------|---------|----------|---------|-----------|------------------------------|--------|--------|--------|--------|--------|
| | | | | | | QPSK | | 16-QAM | | 64-QAM | |
| 5 | 824.7 | 20407 | 1.4 | 6 | 0 | 1.082 | Fig.1 | 1.088 | Fig.2 | 1.082 | Fig.3 |
| | 836.5 | 20525 | | 6 | 0 | 1.082 | Fig.4 | 1.088 | Fig.5 | 1.082 | Fig.6 |
| | 848.3 | 20643 | | 6 | 0 | 1.082 | Fig.7 | 1.082 | Fig.8 | 1.082 | Fig.9 |
| | 825.5 | 20415 | 3 | 15 | 0 | 2.683 | Fig.10 | 2.683 | Fig.11 | 2.670 | Fig.12 |
| | 836.5 | 20525 | | 15 | 0 | 2.683 | Fig.13 | 2.683 | Fig.14 | 2.696 | Fig.15 |
| | 847.5 | 20635 | | 15 | 0 | 2.683 | Fig.16 | 2.683 | Fig.17 | 2.683 | Fig.18 |
| | 826.5 | 20425 | 5 | 25 | 0 | 4.472 | Fig.19 | 4.472 | Fig.20 | 4.472 | Fig.21 |
| | 836.5 | 20525 | | 25 | 0 | 4.472 | Fig.22 | 4.472 | Fig.23 | 4.472 | Fig.24 |
| | 846.5 | 20625 | | 25 | 0 | 4.493 | Fig.25 | 4.472 | Fig.26 | 4.472 | Fig.27 |
| | 829 | 20450 | 10 | 50 | 0 | 8.944 | Fig.28 | 8.944 | Fig.29 | 8.944 | Fig.30 |
| | 836.5 | 20525 | | 50 | 0 | 8.900 | Fig.31 | 8.944 | Fig.32 | 8.900 | Fig.33 |
| | 844 | 20600 | | 50 | 0 | 8.944 | Fig.34 | 8.944 | Fig.35 | 8.944 | Fig.36 |

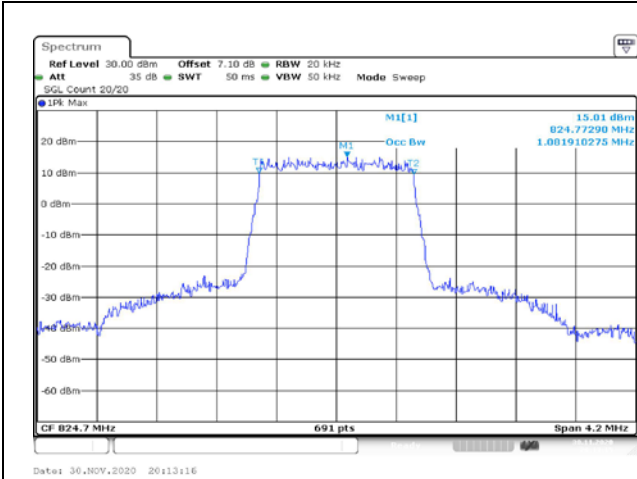


Fig.1

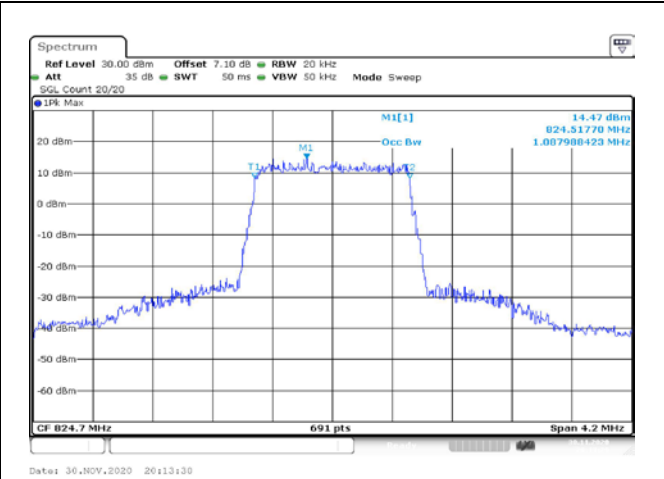


Fig.2

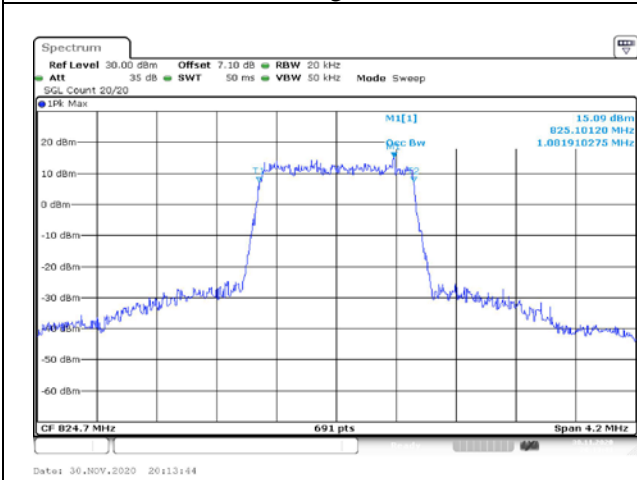


Fig.3

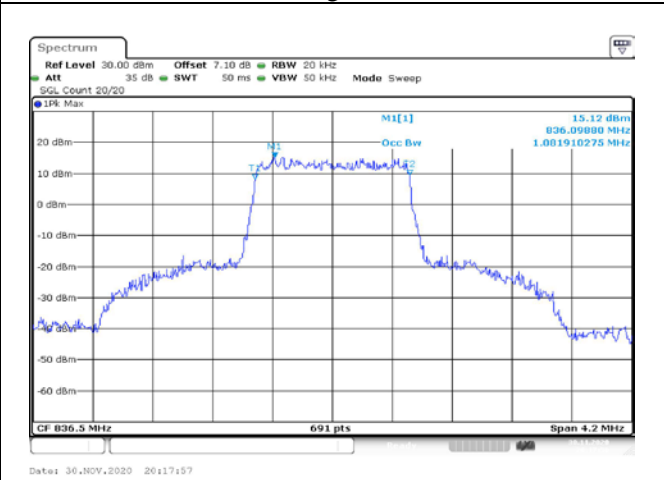


Fig.4

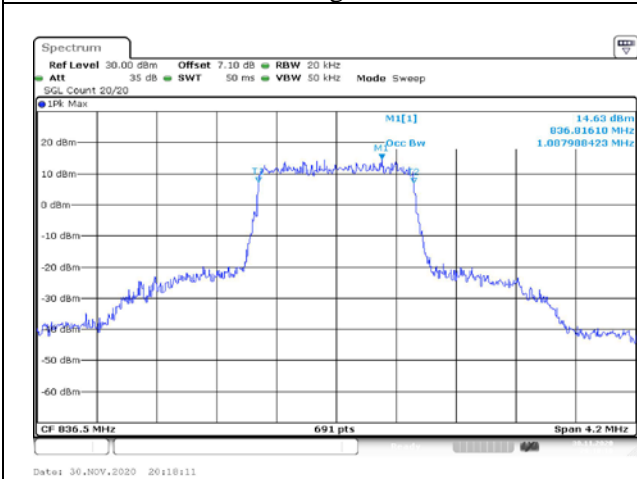


Fig.5

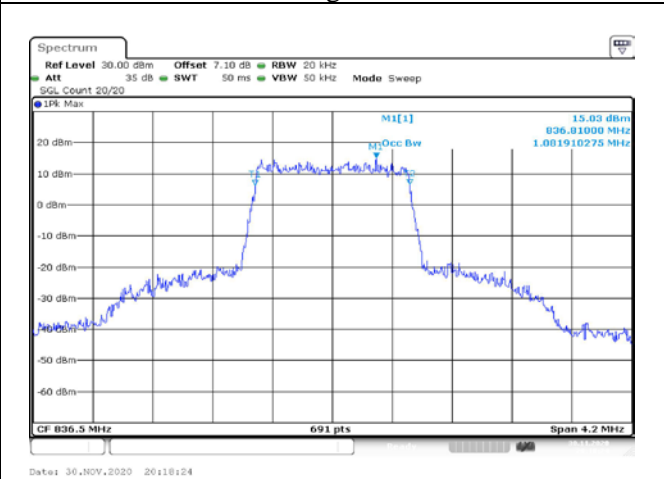


Fig.6

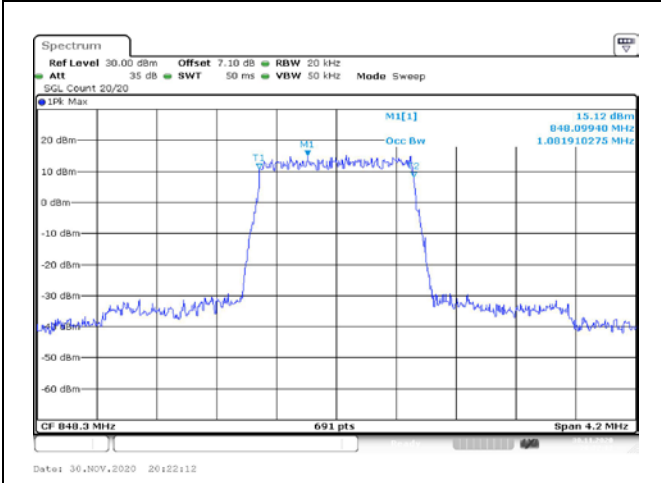


Fig.7

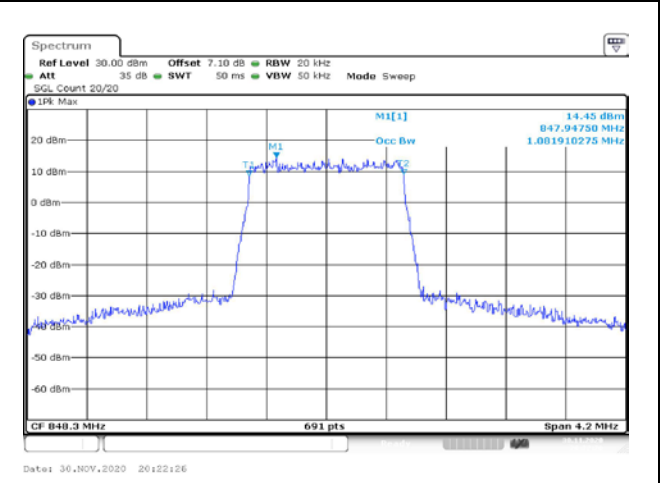


Fig.8

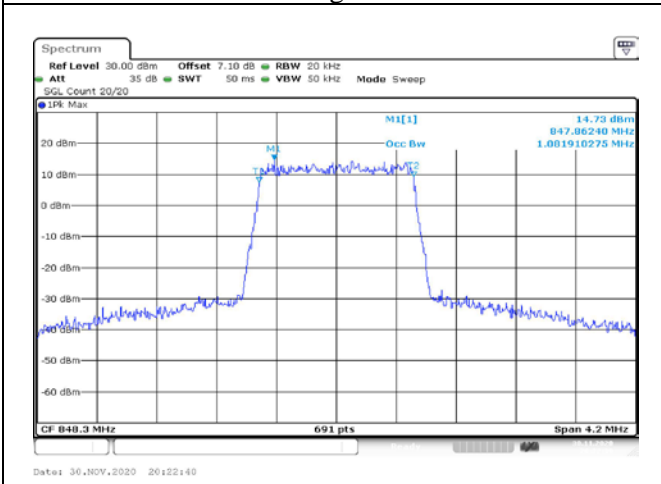


Fig.9

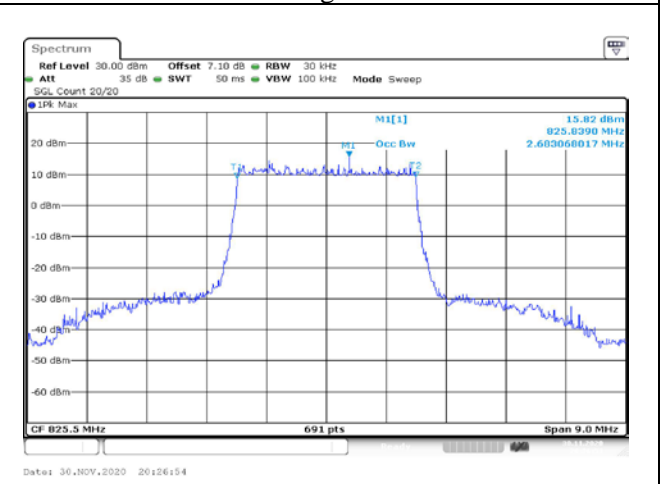


Fig.10

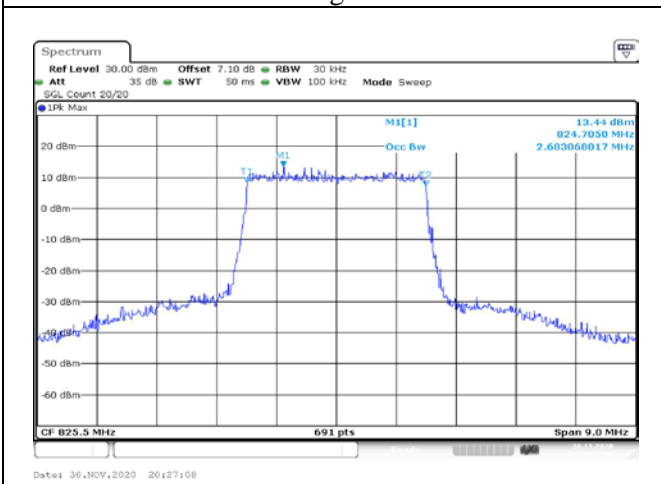


Fig.11

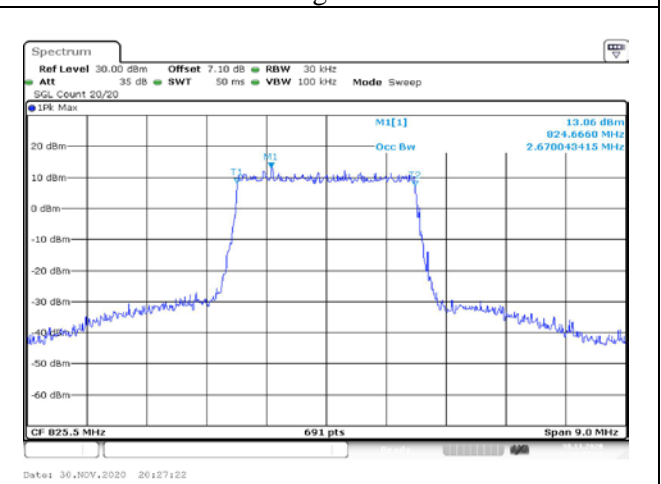


Fig.12

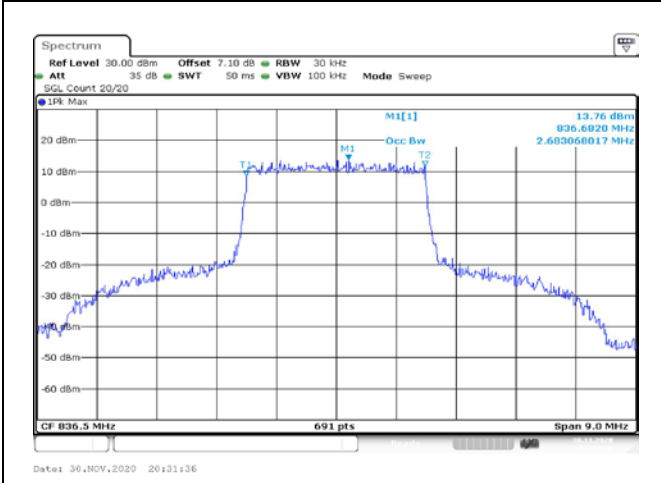


Fig.13

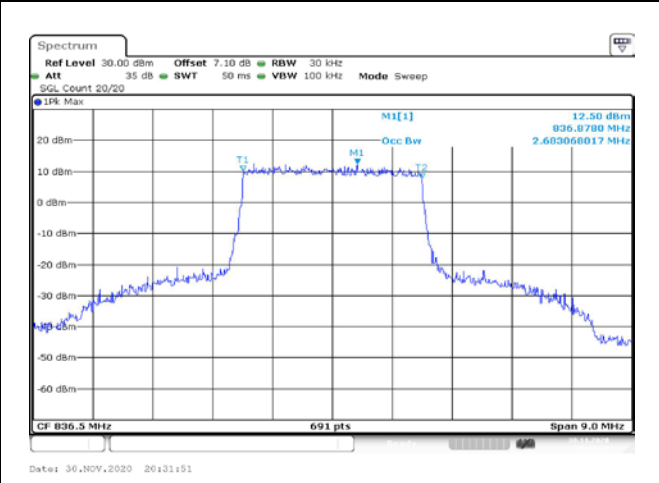


Fig.14

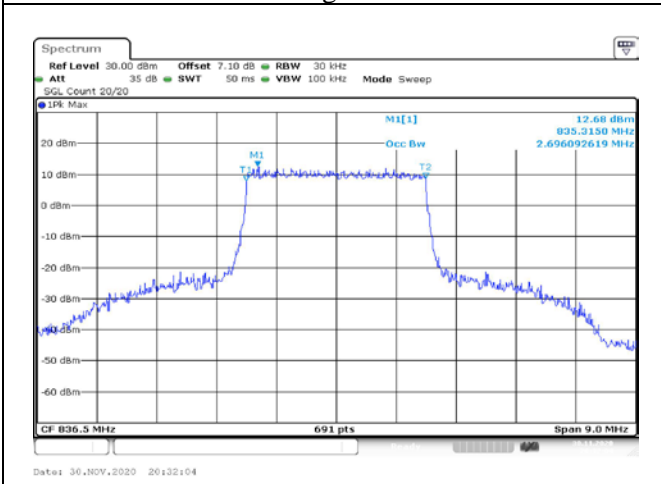


Fig.15

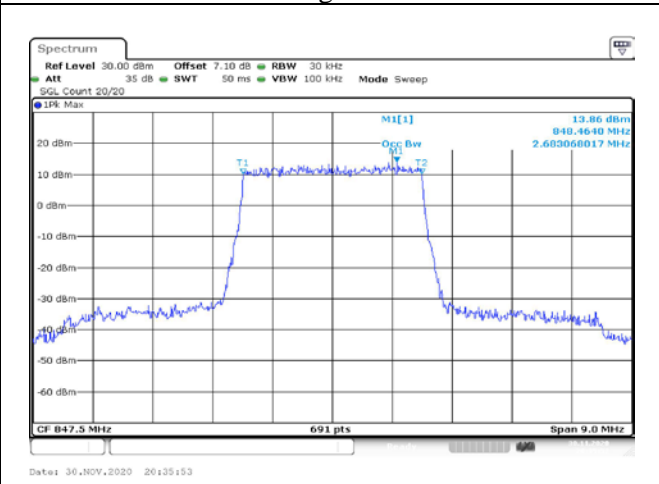


Fig.16

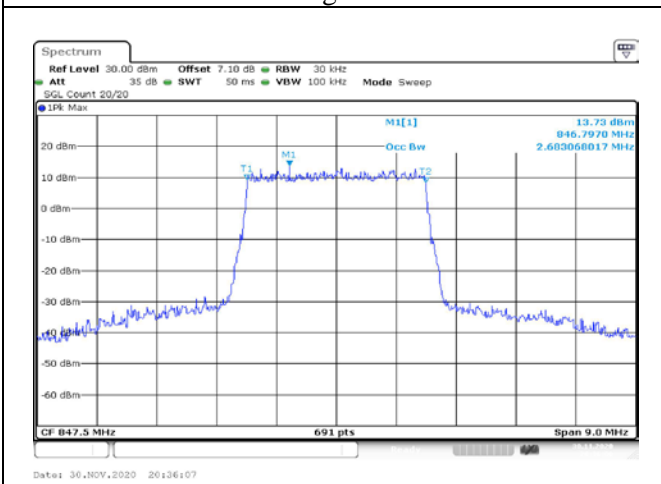


Fig.17

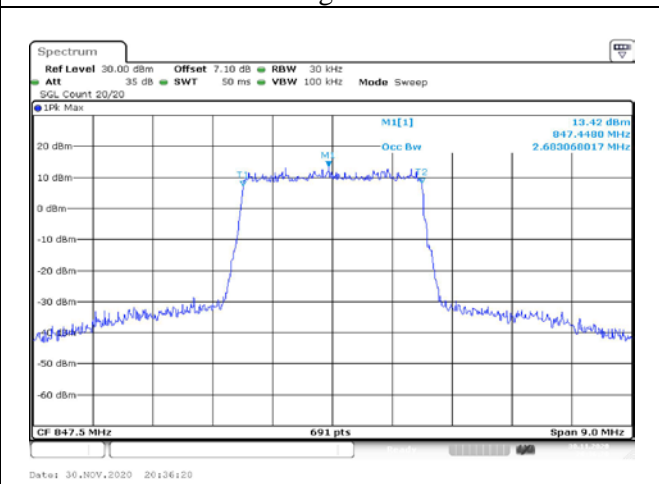


Fig.18

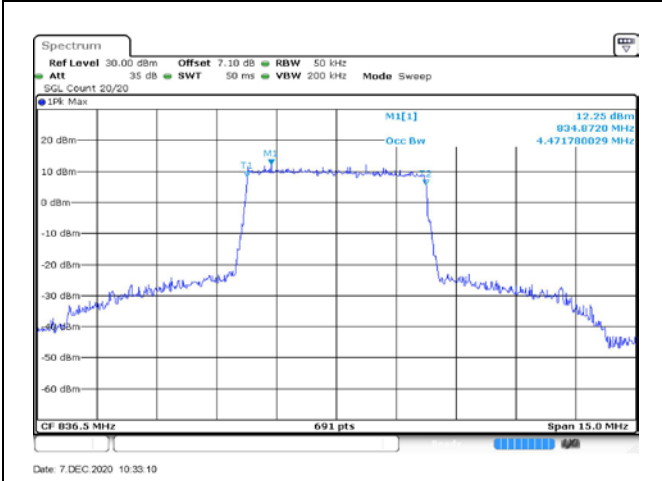


Fig.19

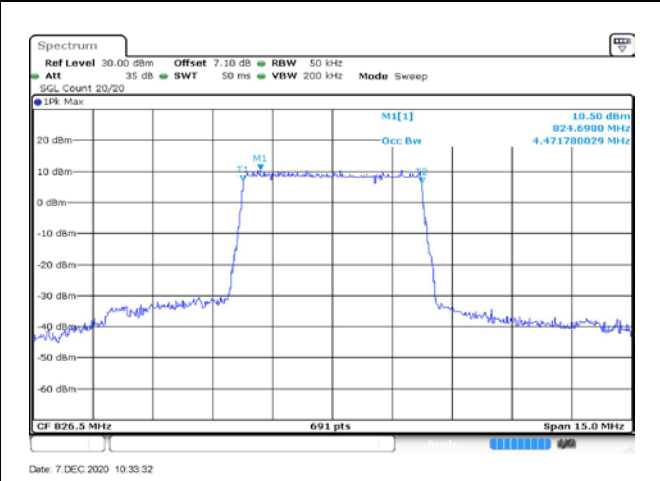


Fig.20

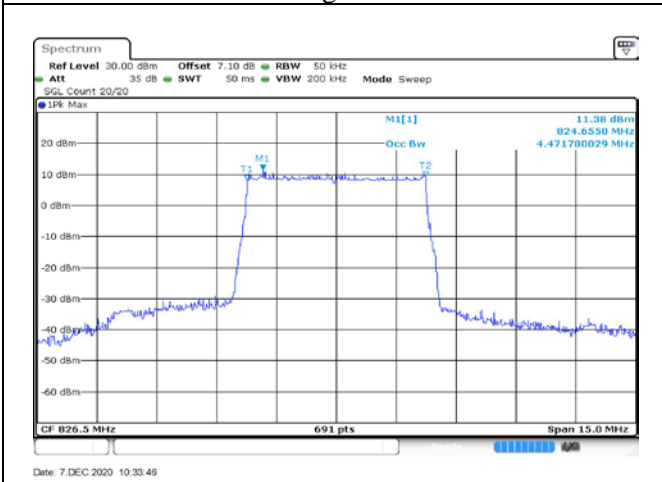


Fig.21

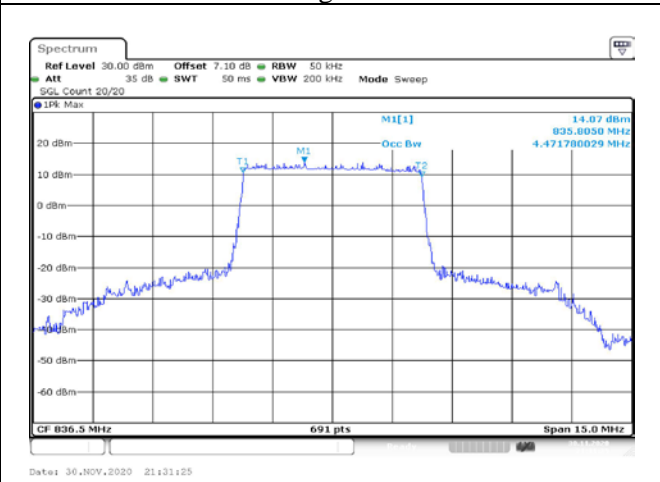


Fig.22

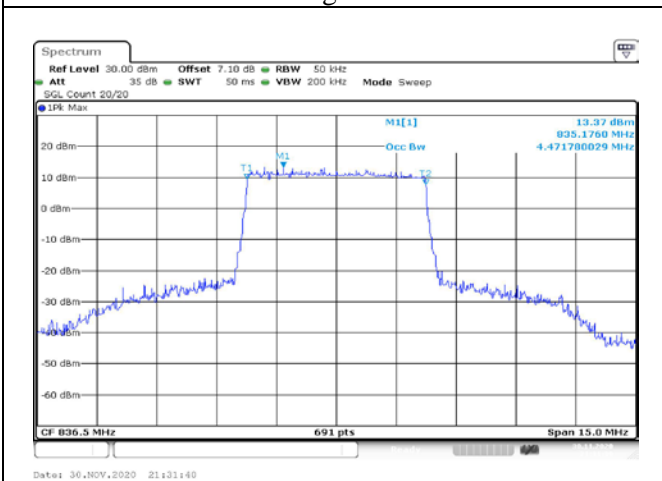


Fig.23

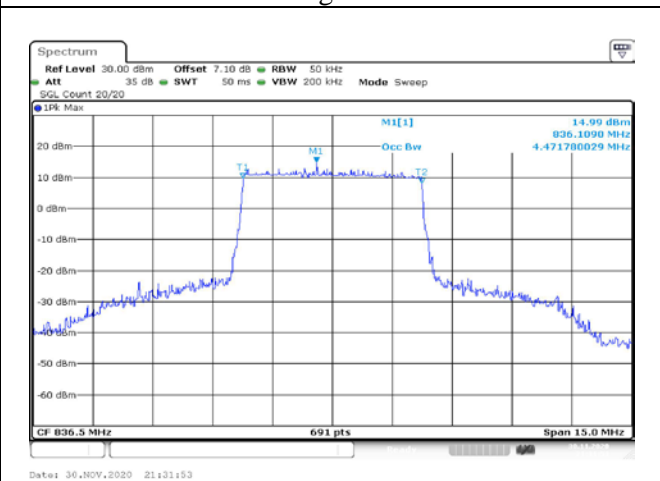
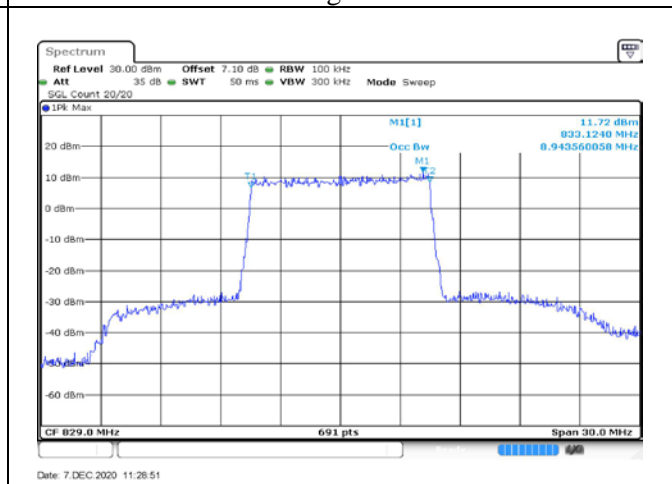
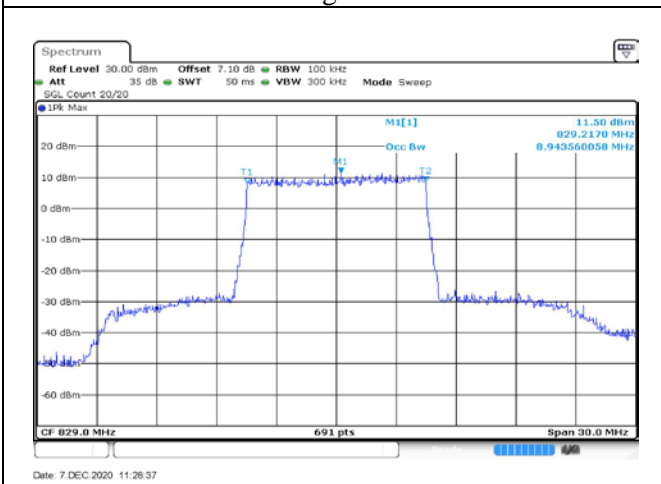
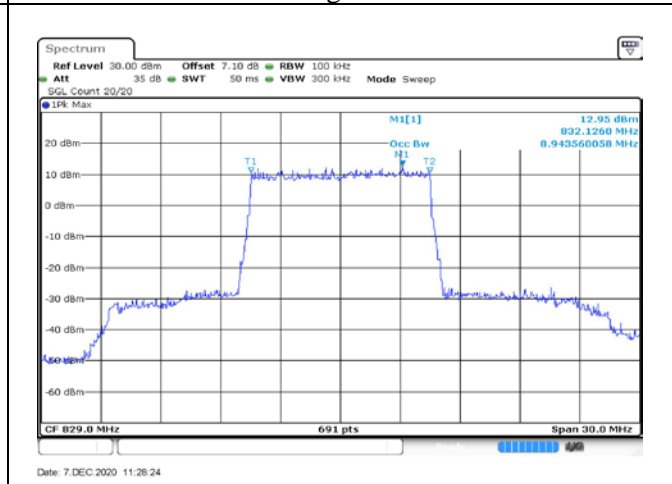
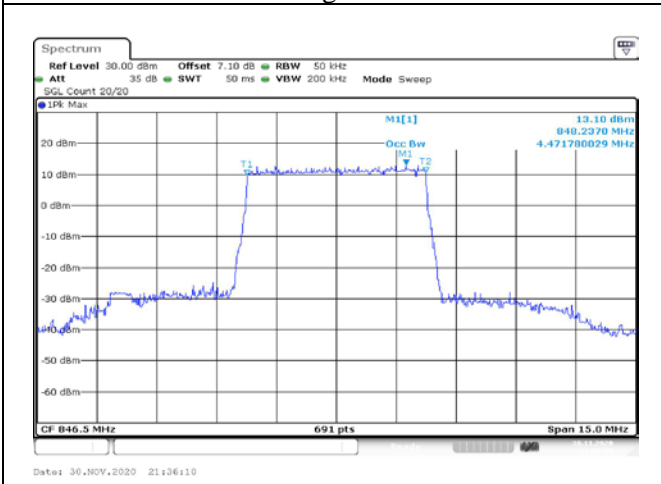
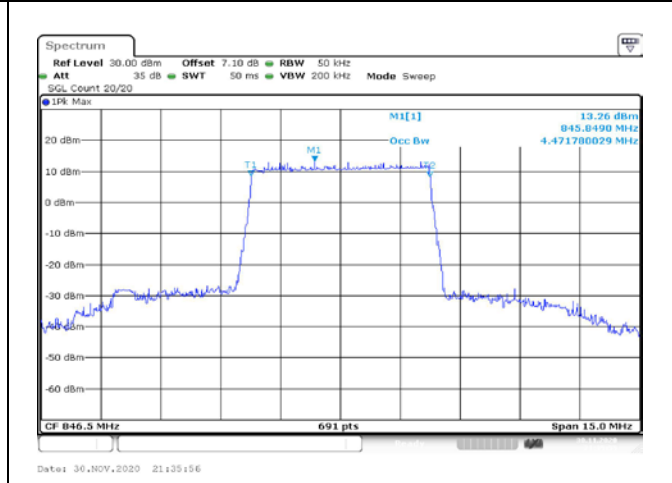
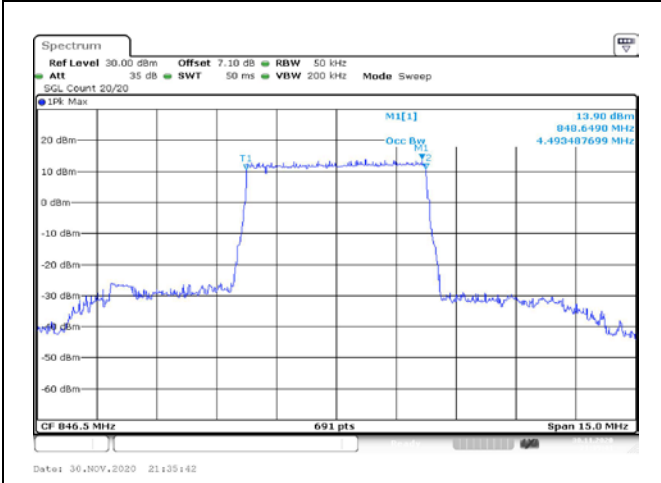


Fig.24



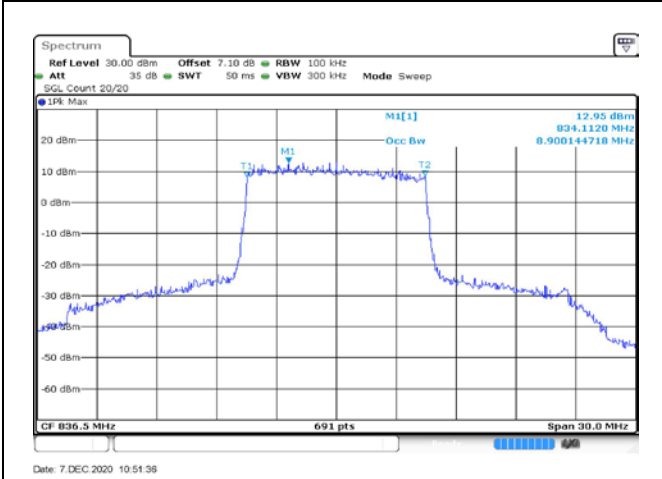


Fig.31

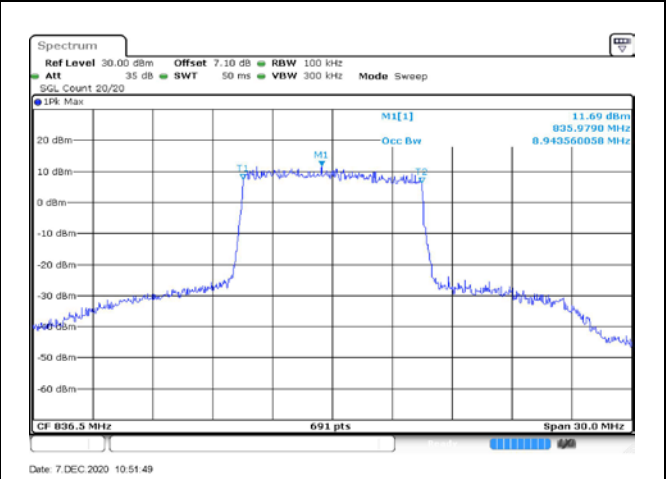


Fig.32

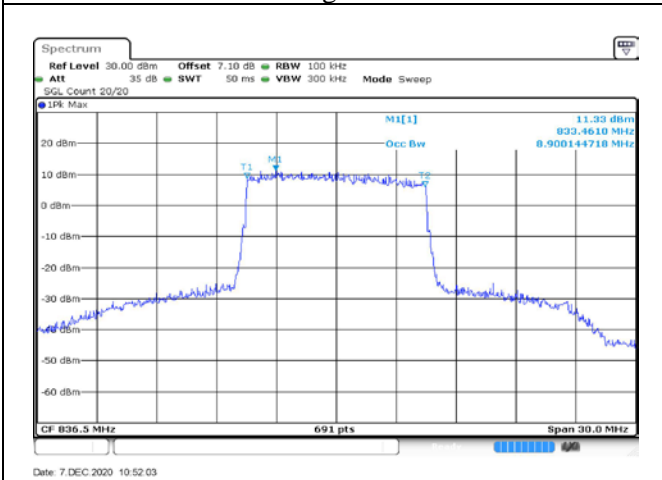


Fig.33

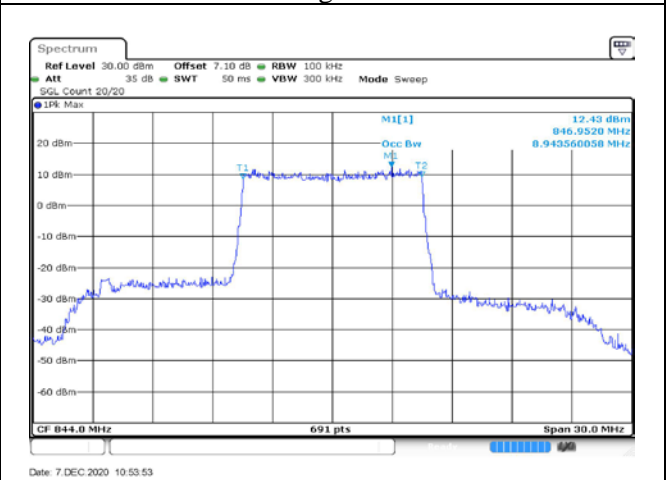


Fig.34

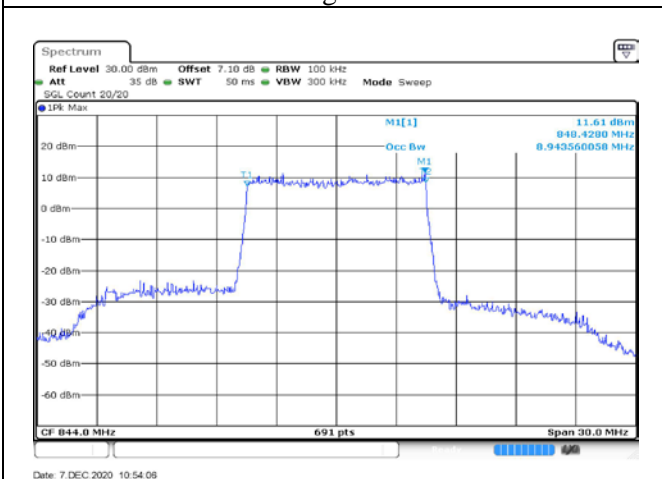


Fig.35

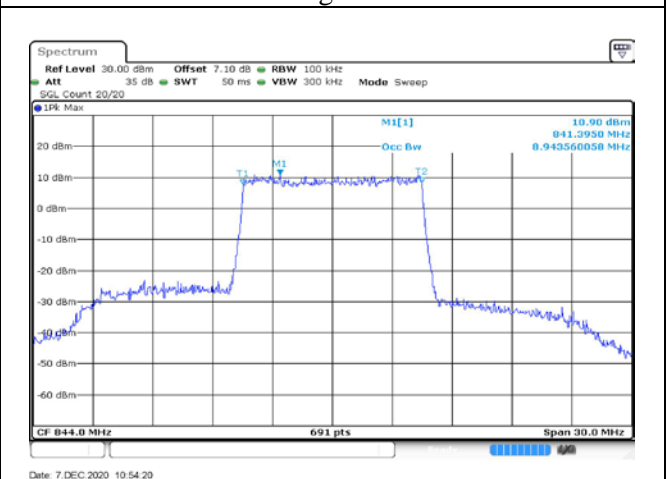


Fig.36

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 | |
| 5 | 824.7 | 20407 | 1.4 | 6 | 0 | 1.210 | Fig.1 | 1.222 | Fig.2 | 1.222 | Fig.3 |
| | 836.5 | 20525 | | 6 | 0 | 1.216 | Fig.4 | 1.216 | Fig.5 | 1.222 | Fig.6 |
| | 848.3 | 20643 | | 6 | 0 | 1.210 | Fig.7 | 1.210 | Fig.8 | 1.204 | Fig.9 |
| | 825.5 | 20415 | 3 | 15 | 0 | 2.904 | Fig.10 | 2.931 | Fig.11 | 2.918 | Fig.12 |
| | 836.5 | 20525 | | 15 | 0 | 2.918 | Fig.13 | 2.931 | Fig.14 | 2.931 | Fig.15 |
| | 847.5 | 20635 | | 15 | 0 | 2.931 | Fig.16 | 2.918 | Fig.17 | 2.931 | Fig.18 |
| | 826.5 | 20425 | 5 | 25 | 0 | 4.863 | Fig.19 | 4.863 | Fig.20 | 4.884 | Fig.21 |
| | 836.5 | 20525 | | 25 | 0 | 4.863 | Fig.22 | 4.776 | Fig.23 | 4.841 | Fig.24 |
| | 846.5 | 20625 | | 25 | 0 | 4.841 | Fig.25 | 4.863 | Fig.26 | 4.863 | Fig.27 |
| | 829 | 20450 | 10 | 50 | 0 | 9.638 | Fig.28 | 9.638 | Fig.29 | 9.638 | Fig.30 |
| | 836.5 | 20525 | | 50 | 0 | 9.551 | Fig.31 | 9.551 | Fig.32 | 9.638 | Fig.33 |
| | 844 | 20600 | | 50 | 0 | 9.682 | Fig.34 | 9.725 | Fig.35 | 9.638 | Fig.36 |

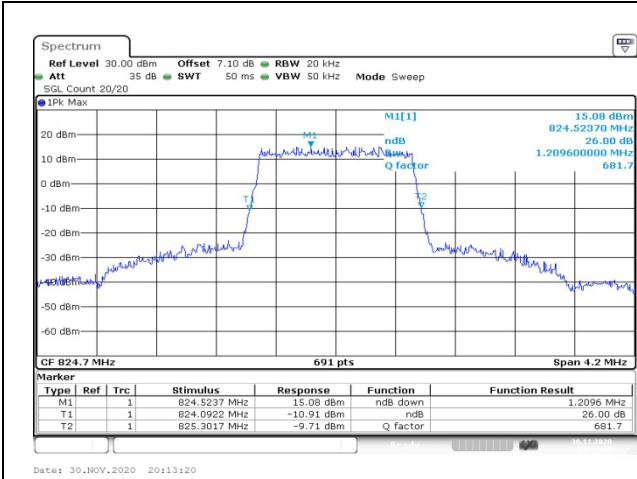


Fig.1

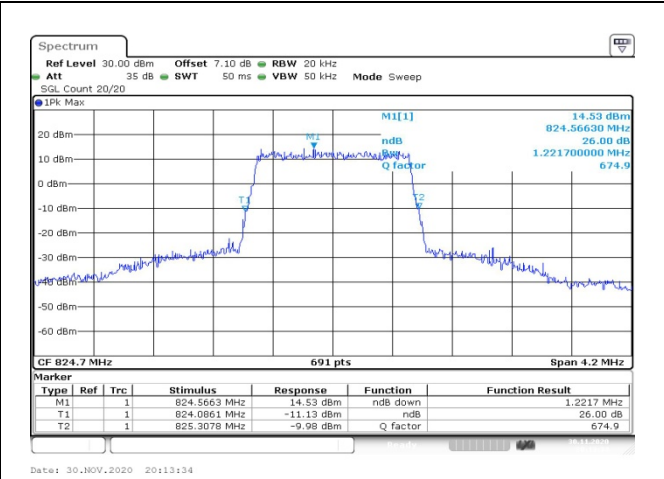


Fig.2

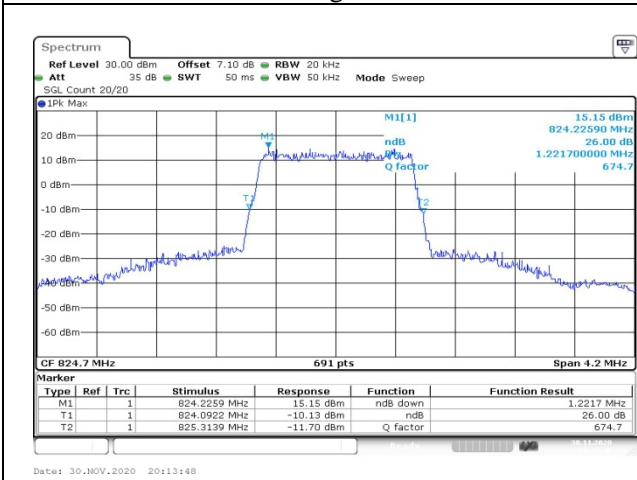


Fig.3

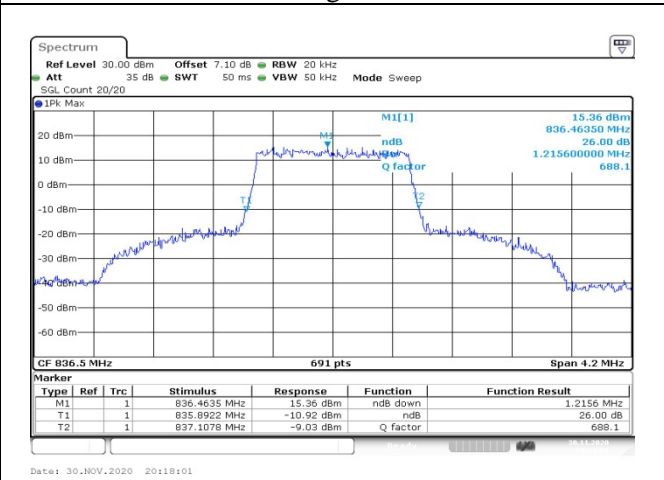


Fig.4

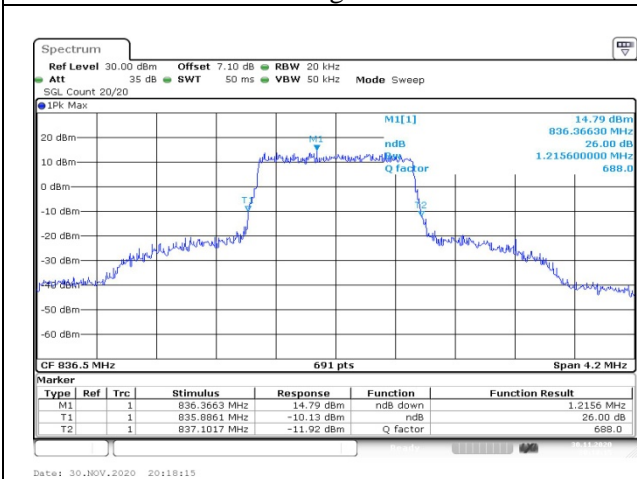


Fig.5

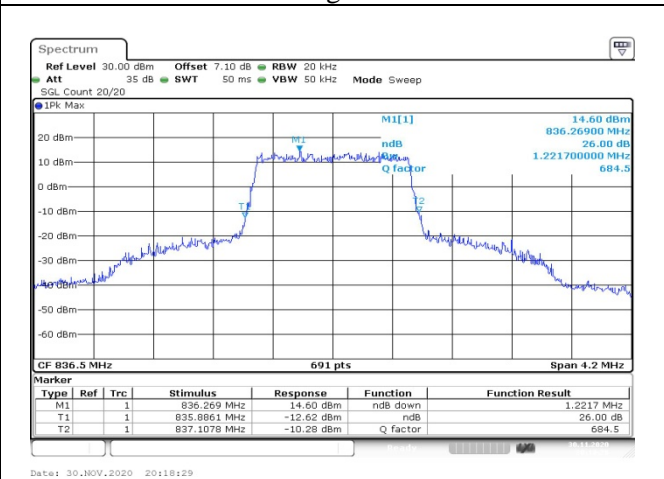


Fig.6

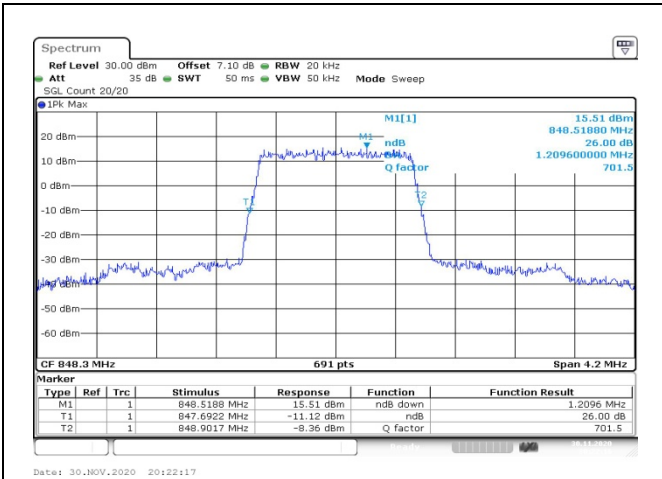


Fig.7

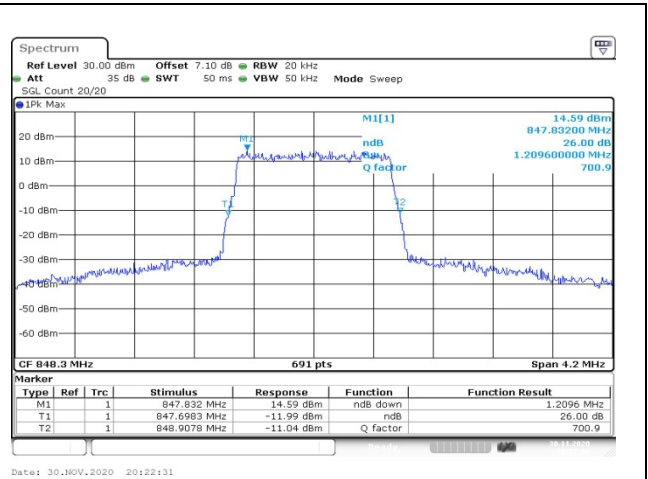


Fig.8

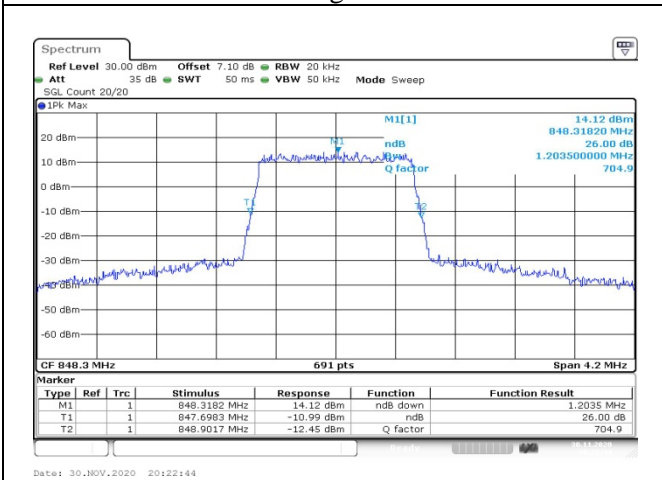


Fig.9

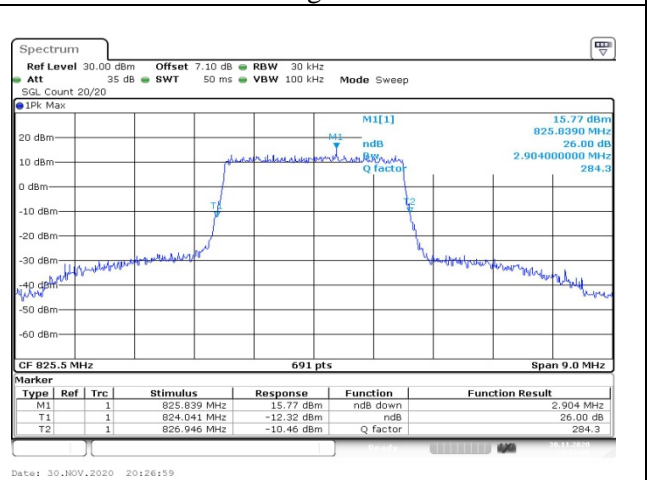


Fig.10

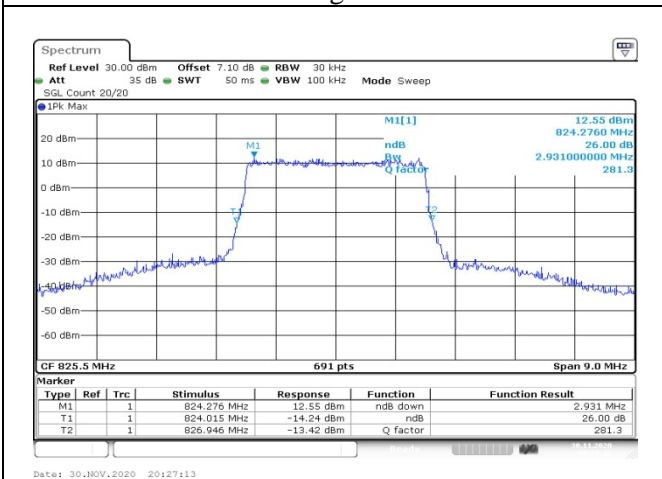


Fig.11

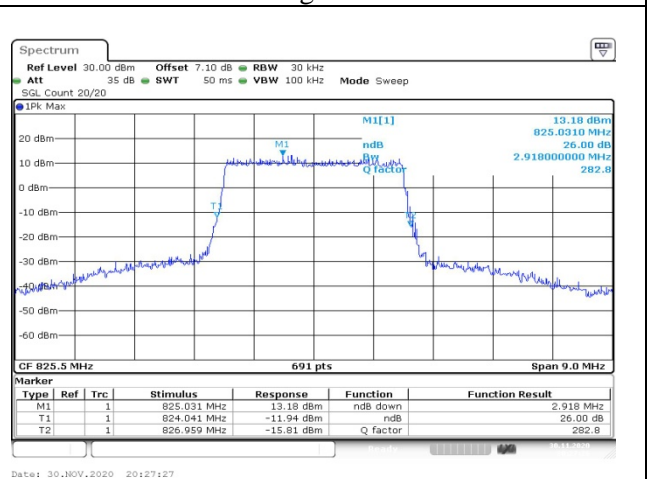


Fig.12

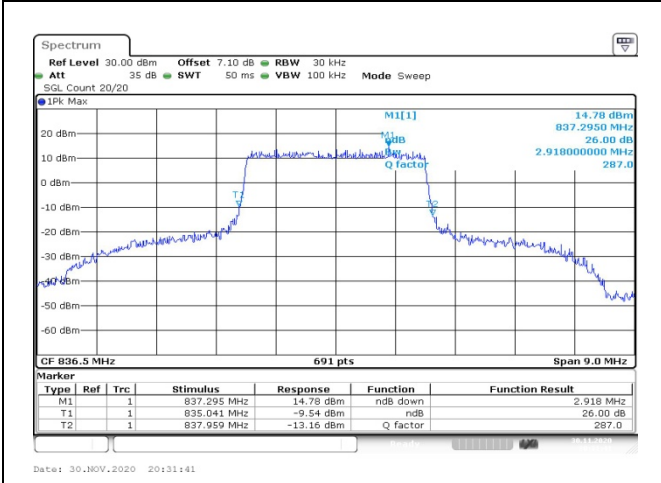


Fig.13

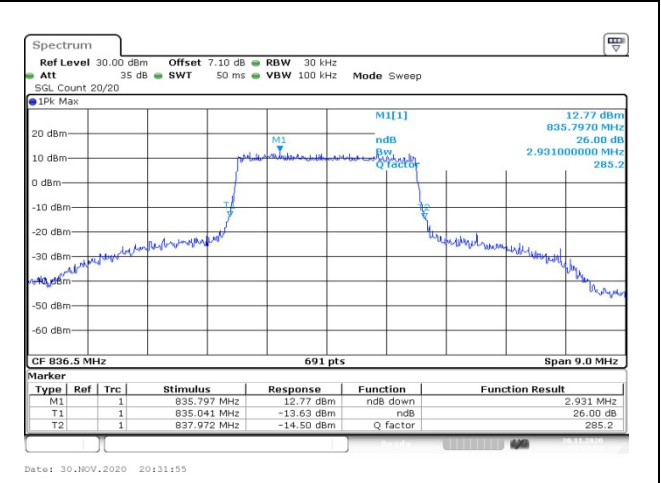


Fig.14

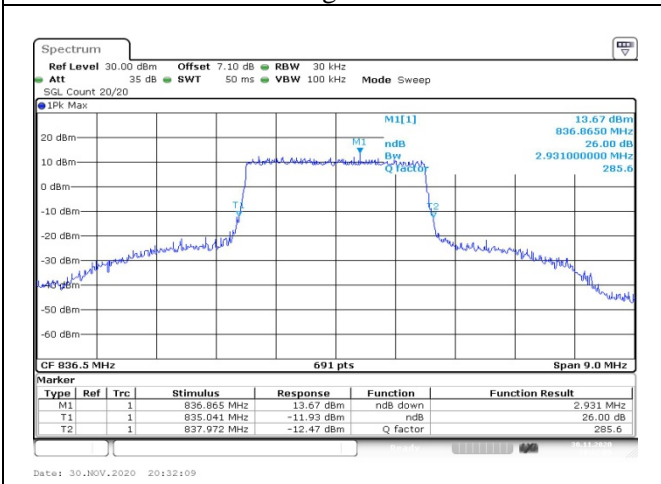


Fig.15

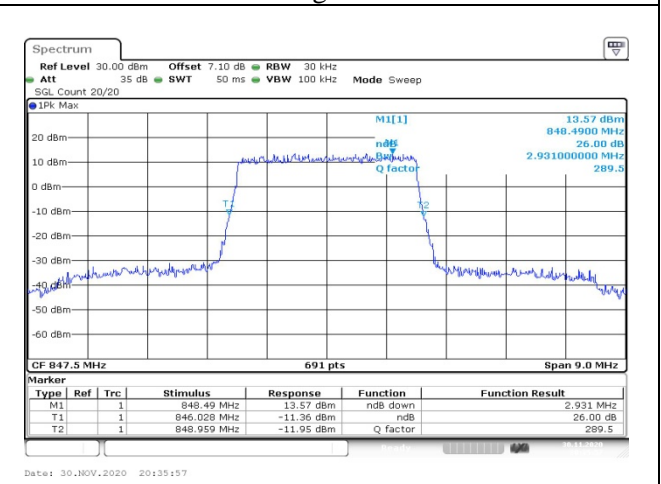


Fig.16

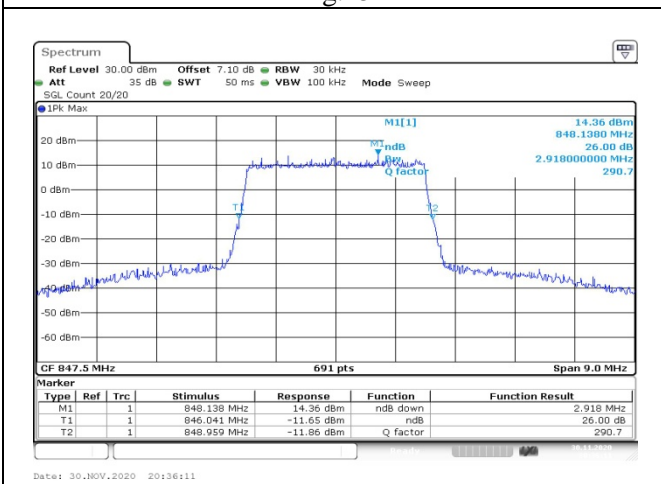


Fig.17

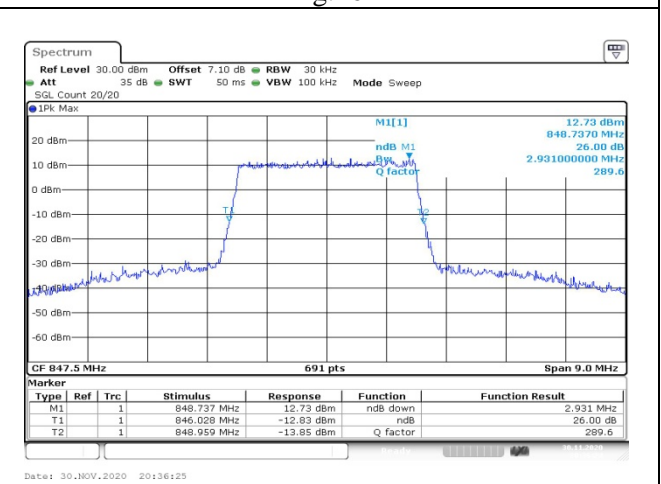


Fig.18