

## APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 5

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         | 23.97                 |
|            |                         |            |     | 1       | 5         | 23.83                 |
|            |                         |            |     | 3       | 2         | 22.91                 |
|            |                         |            |     | 6       | 0         | 23.07                 |
|            | 836.5                   | 20525      |     | 1       | 0         | 23.83                 |
|            |                         |            |     | 1       | 5         | 24.03                 |
|            |                         |            |     | 3       | 2         | 22.82                 |
|            |                         |            |     | 6       | 0         | 22.88                 |
|            | 848.3                   | 20643      |     | 1       | 0         | 23.86                 |
|            |                         |            |     | 1       | 5         | 24.22                 |
|            |                         |            |     | 3       | 2         | 22.74                 |
|            |                         |            |     | 6       | 0         | 22.99                 |
| 16QAM      | 824.7                   | 20407      | 1.4 | 1       | 0         | 23.12                 |
|            |                         |            |     | 1       | 5         | 23.26                 |
|            |                         |            |     | 3       | 2         | 22.01                 |
|            |                         |            |     | 6       | 0         | 22.19                 |
|            | 836.5                   | 20525      |     | 1       | 0         | 23.16                 |
|            |                         |            |     | 1       | 5         | 23.26                 |
|            |                         |            |     | 3       | 2         | 22.01                 |
|            |                         |            |     | 6       | 0         | 21.91                 |
|            | 848.3                   | 20643      |     | 1       | 0         | 23.33                 |
|            |                         |            |     | 1       | 5         | 23.55                 |
|            |                         |            |     | 3       | 2         | 21.99                 |
|            |                         |            |     | 6       | 0         | 21.81                 |
| 64QAM      | 824.7                   | 20407      | 1.4 | 1       | 0         | 22.87                 |
|            |                         |            |     | 1       | 5         | 23.09                 |
|            |                         |            |     | 3       | 2         | 23.10                 |
|            |                         |            |     | 6       | 0         | 22.16                 |
|            | 836.5                   | 20525      |     | 1       | 0         | 23.21                 |
|            |                         |            |     | 1       | 5         | 23.23                 |
|            |                         |            |     | 3       | 2         | 22.10                 |
|            |                         |            |     | 6       | 0         | 21.94                 |
|            | 848.3                   | 20643      |     | 1       | 0         | 23.27                 |
|            |                         |            |     | 1       | 5         | 23.20                 |
|            |                         |            |     | 3       | 2         | 22.01                 |
|            |                         |            |     | 6       | 0         | 21.96                 |

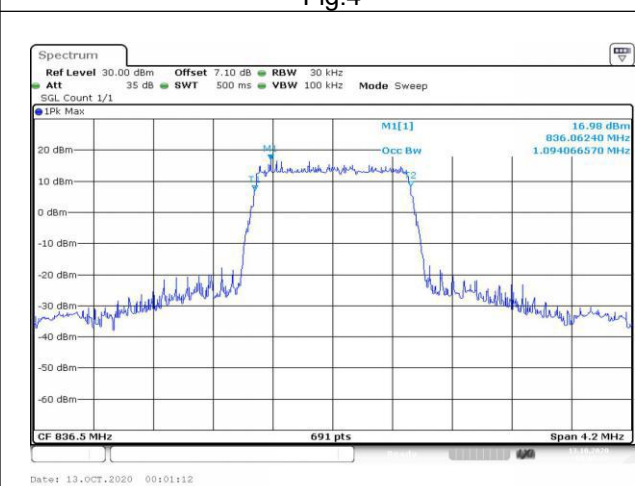
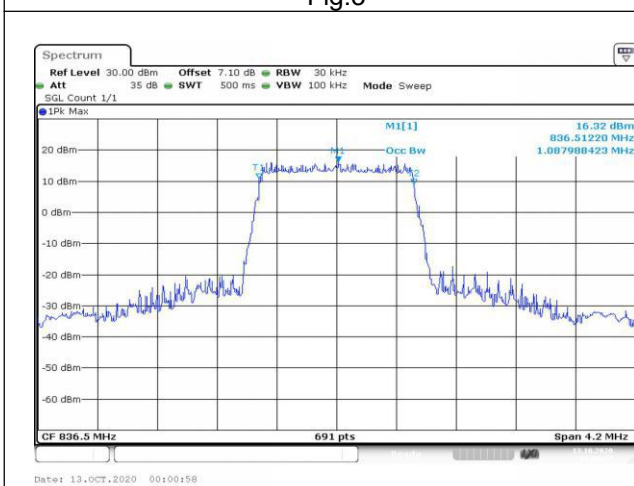
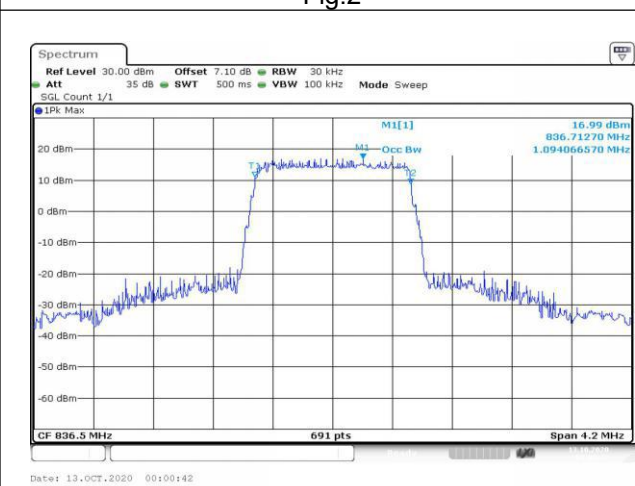
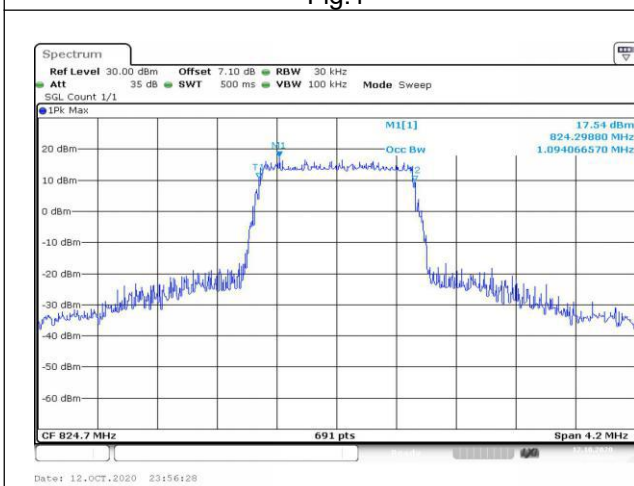
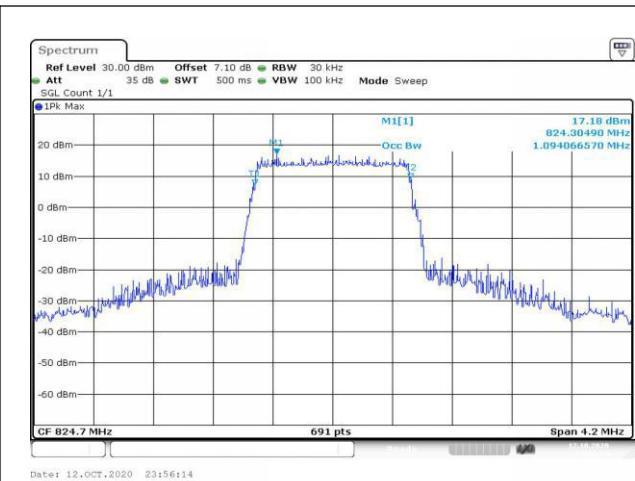
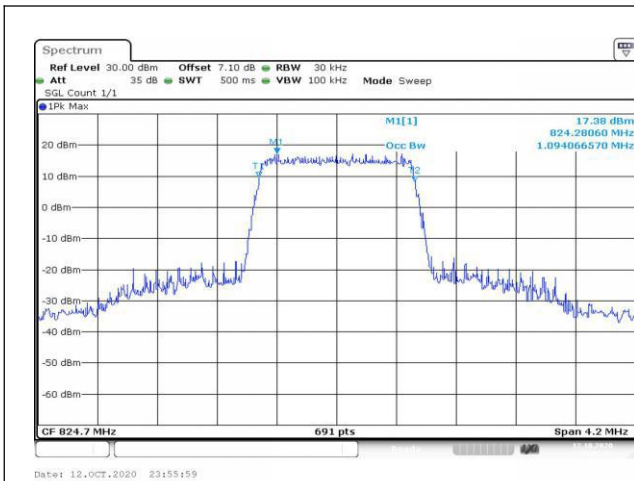
| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 825.5                   | 20415      | 3  | 1       | 0         | 23.90                 |
|            |                         |            |    | 1       | 14        | 23.86                 |
|            |                         |            |    | 8       | 4         | 22.92                 |
|            |                         |            |    | 15      | 0         | 23.04                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 23.85                 |
|            |                         |            |    | 1       | 14        | 23.98                 |
|            |                         |            |    | 8       | 4         | 22.91                 |
|            |                         |            |    | 15      | 0         | 22.86                 |
|            | 847.5                   | 20635      |    | 1       | 0         | 23.88                 |
|            |                         |            |    | 1       | 14        | 24.22                 |
|            |                         |            |    | 8       | 4         | 22.69                 |
|            |                         |            |    | 15      | 0         | 23.05                 |
| 16QAM      | 825.5                   | 20415      | 3  | 1       | 0         | 23.15                 |
|            |                         |            |    | 1       | 14        | 23.31                 |
|            |                         |            |    | 8       | 4         | 22.01                 |
|            |                         |            |    | 15      | 0         | 22.12                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 23.12                 |
|            |                         |            |    | 1       | 14        | 23.27                 |
|            |                         |            |    | 8       | 4         | 21.92                 |
|            |                         |            |    | 15      | 0         | 21.85                 |
|            | 847.5                   | 20635      |    | 1       | 0         | 23.25                 |
|            |                         |            |    | 1       | 14        | 23.64                 |
|            |                         |            |    | 8       | 4         | 21.98                 |
|            |                         |            |    | 15      | 0         | 21.83                 |
| 64QAM      | 825.5                   | 20415      | 3  | 1       | 0         | 22.78                 |
|            |                         |            |    | 1       | 14        | 23.10                 |
|            |                         |            |    | 8       | 4         | 23.19                 |
|            |                         |            |    | 15      | 0         | 22.15                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 23.17                 |
|            |                         |            |    | 1       | 14        | 23.17                 |
|            |                         |            |    | 8       | 4         | 22.08                 |
|            |                         |            |    | 15      | 0         | 21.94                 |
|            | 847.5                   | 20635      |    | 1       | 0         | 23.17                 |
|            |                         |            |    | 1       | 14        | 23.19                 |
|            |                         |            |    | 8       | 4         | 22.03                 |
|            |                         |            |    | 15      | 0         | 21.98                 |

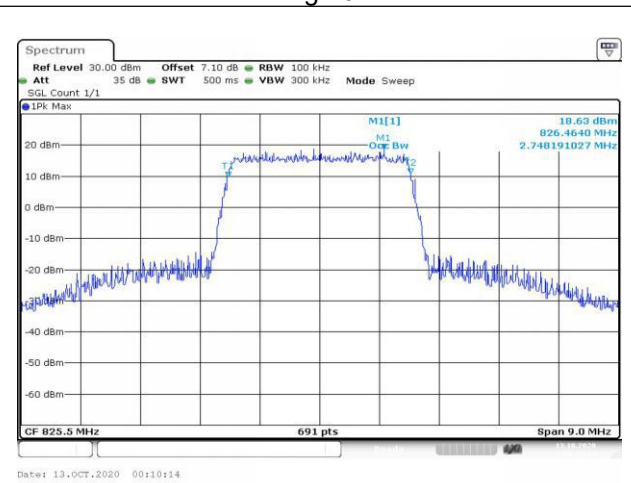
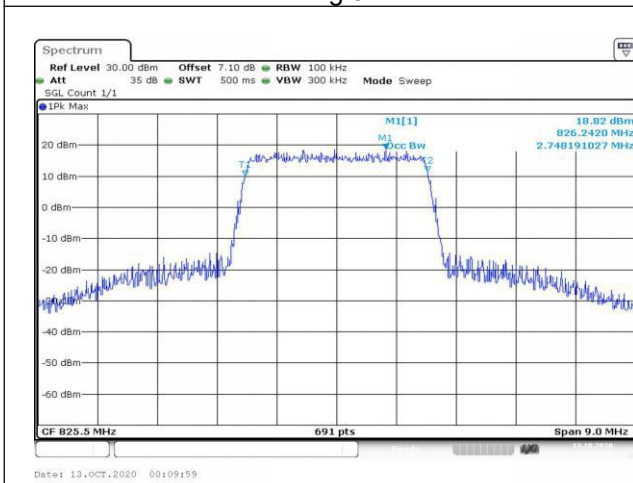
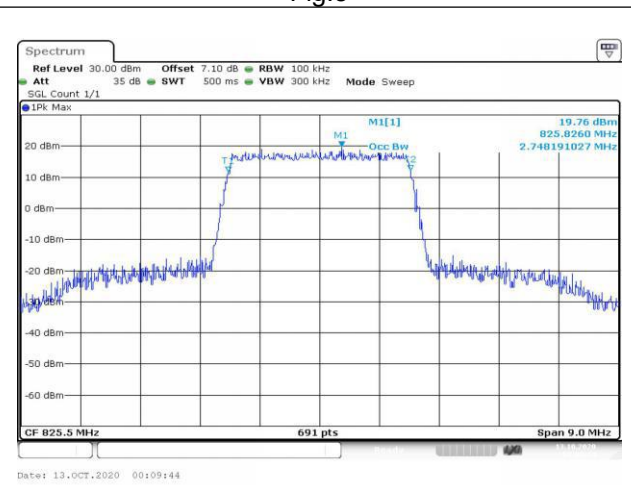
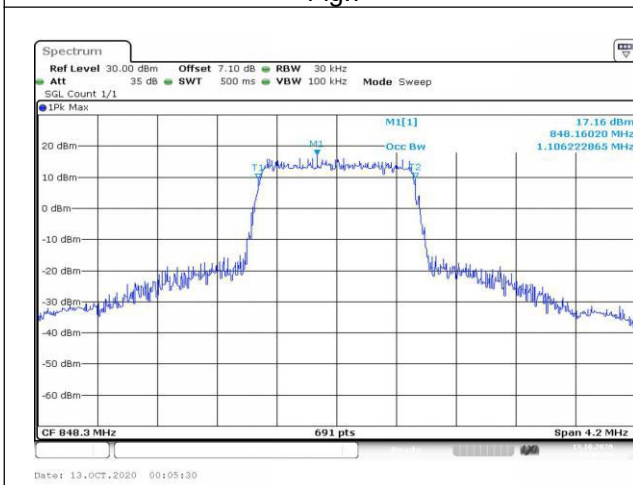
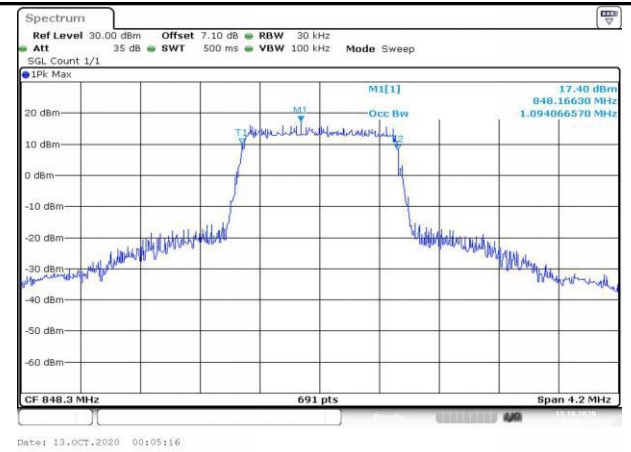
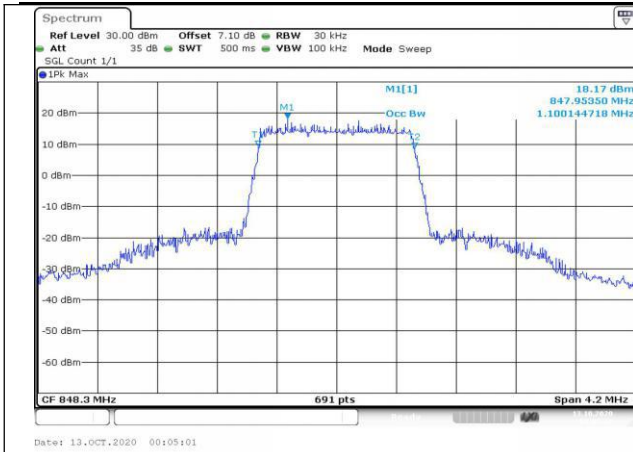
| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 826.5                   | 20425      | 5  | 1       | 0         | 23.99                 |
|            |                         |            |    | 1       | 24        | 23.82                 |
|            |                         |            |    | 12      | 6         | 22.82                 |
|            |                         |            |    | 25      | 0         | 23.10                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 23.81                 |
|            |                         |            |    | 1       | 24        | 24.01                 |
|            |                         |            |    | 12      | 6         | 22.84                 |
|            |                         |            |    | 25      | 0         | 22.94                 |
|            | 846.5                   | 20625      |    | 1       | 0         | 23.94                 |
|            |                         |            |    | 1       | 24        | 24.36                 |
|            |                         |            |    | 12      | 6         | 22.69                 |
|            |                         |            |    | 25      | 0         | 22.92                 |
| 16QAM      | 826.5                   | 20425      | 5  | 1       | 0         | 23.13                 |
|            |                         |            |    | 1       | 24        | 23.30                 |
|            |                         |            |    | 12      | 6         | 22.09                 |
|            |                         |            |    | 25      | 0         | 22.20                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 23.24                 |
|            |                         |            |    | 1       | 24        | 23.15                 |
|            |                         |            |    | 12      | 6         | 21.94                 |
|            |                         |            |    | 25      | 0         | 21.96                 |
|            | 846.5                   | 20625      |    | 1       | 0         | 23.30                 |
|            |                         |            |    | 1       | 24        | 23.63                 |
|            |                         |            |    | 12      | 6         | 21.97                 |
|            |                         |            |    | 25      | 0         | 21.83                 |
| 64QAM      | 826.5                   | 20425      | 5  | 1       | 0         | 22.86                 |
|            |                         |            |    | 1       | 24        | 23.10                 |
|            |                         |            |    | 12      | 6         | 23.17                 |
|            |                         |            |    | 25      | 0         | 22.10                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 23.13                 |
|            |                         |            |    | 1       | 24        | 23.21                 |
|            |                         |            |    | 12      | 6         | 21.98                 |
|            |                         |            |    | 25      | 0         | 22.03                 |
|            | 846.5                   | 20625      |    | 1       | 0         | 23.23                 |
|            |                         |            |    | 1       | 24        | 23.25                 |
|            |                         |            |    | 12      | 6         | 21.98                 |
|            |                         |            |    | 25      | 0         | 21.91                 |

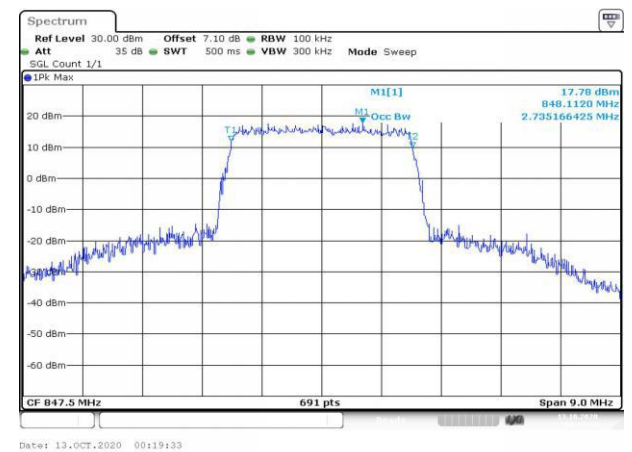
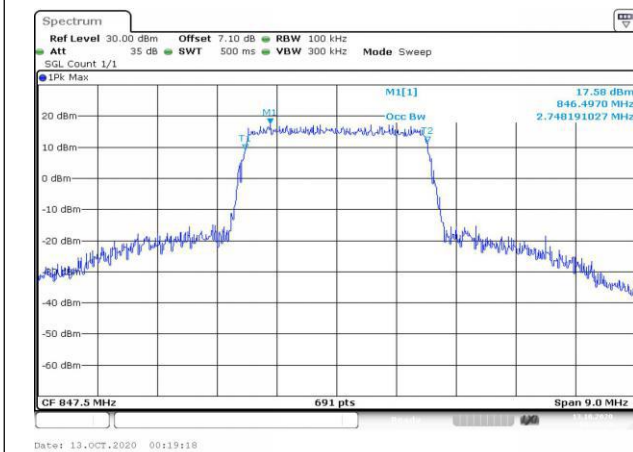
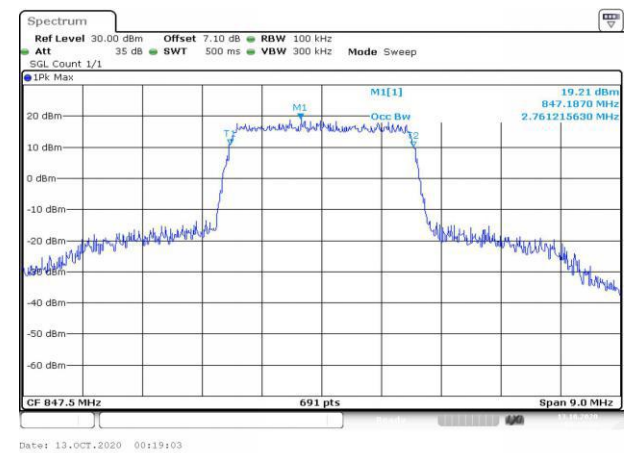
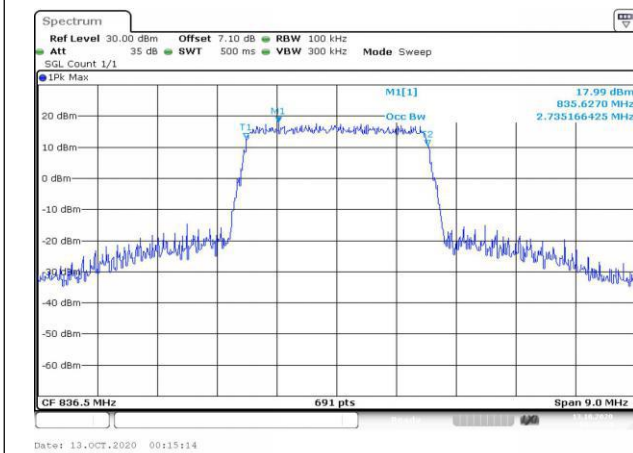
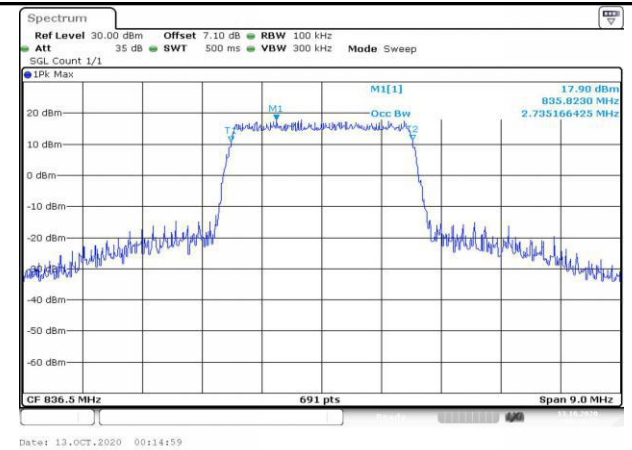
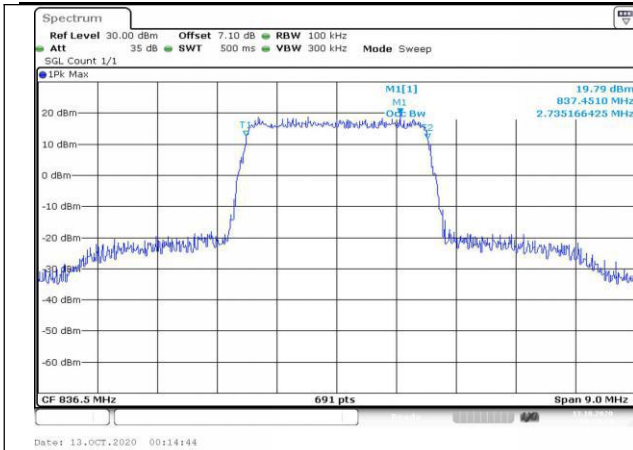
| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 829                     | 20450      | 10 | 1       | 0         | 24.02                 |
|            |                         |            |    | 1       | 49        | 23.95                 |
|            |                         |            |    | 24      | 12        | 22.94                 |
|            |                         |            |    | 50      | 0         | 23.12                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 23.92                 |
|            |                         |            |    | 1       | 49        | 24.11                 |
|            |                         |            |    | 24      | 12        | 22.94                 |
|            |                         |            |    | 50      | 0         | 22.96                 |
|            | 844                     | 20600      |    | 1       | 0         | 23.98                 |
|            |                         |            |    | 1       | 49        | 24.36                 |
|            |                         |            |    | 24      | 12        | 22.83                 |
|            |                         |            |    | 50      | 0         | 23.05                 |
| 16QAM      | 829                     | 20450      | 10 | 1       | 0         | 23.21                 |
|            |                         |            |    | 1       | 49        | 23.32                 |
|            |                         |            |    | 24      | 12        | 22.14                 |
|            |                         |            |    | 50      | 0         | 22.24                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 23.26                 |
|            |                         |            |    | 1       | 49        | 23.28                 |
|            |                         |            |    | 24      | 12        | 22.04                 |
|            |                         |            |    | 50      | 0         | 21.97                 |
|            | 844                     | 20600      |    | 1       | 0         | 23.34                 |
|            |                         |            |    | 1       | 49        | 23.65                 |
|            |                         |            |    | 24      | 12        | 22.01                 |
|            |                         |            |    | 50      | 0         | 21.91                 |
| 64QAM      | 829                     | 20450      | 10 | 1       | 0         | 22.87                 |
|            |                         |            |    | 1       | 49        | 23.21                 |
|            |                         |            |    | 24      | 12        | 23.19                 |
|            |                         |            |    | 50      | 0         | 22.19                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 23.27                 |
|            |                         |            |    | 1       | 49        | 23.31                 |
|            |                         |            |    | 24      | 12        | 22.13                 |
|            |                         |            |    | 50      | 0         | 22.06                 |
|            | 844                     | 20600      |    | 1       | 0         | 23.32                 |
|            |                         |            |    | 1       | 49        | 23.27                 |
|            |                         |            |    | 24      | 12        | 22.12                 |
|            |                         |            |    | 50      | 0         | 22.03                 |

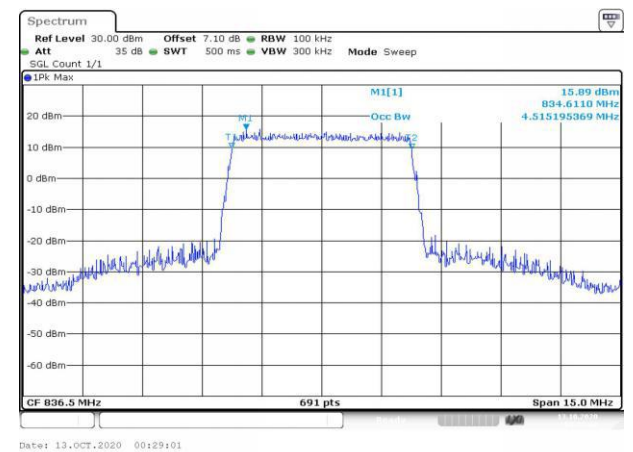
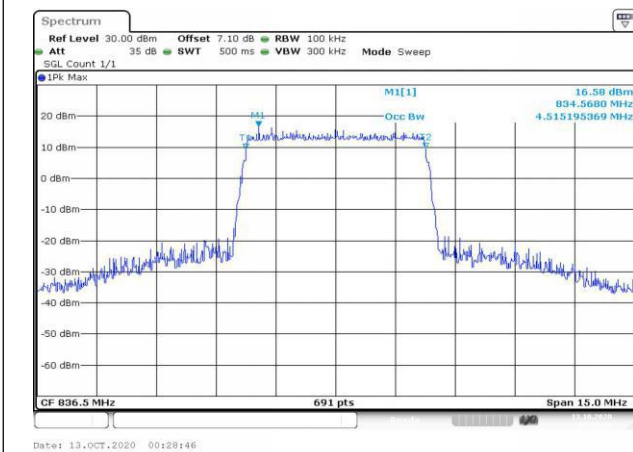
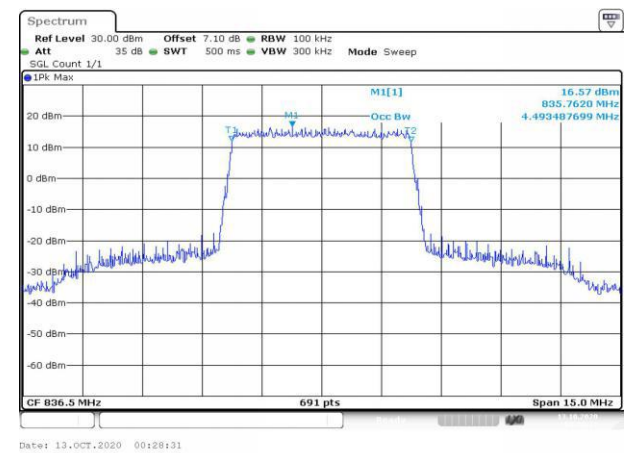
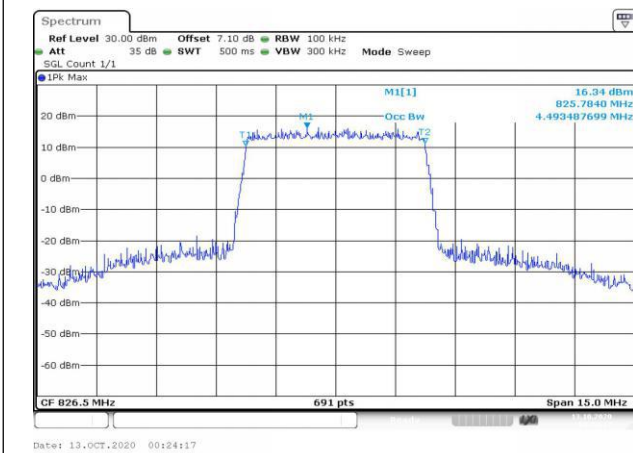
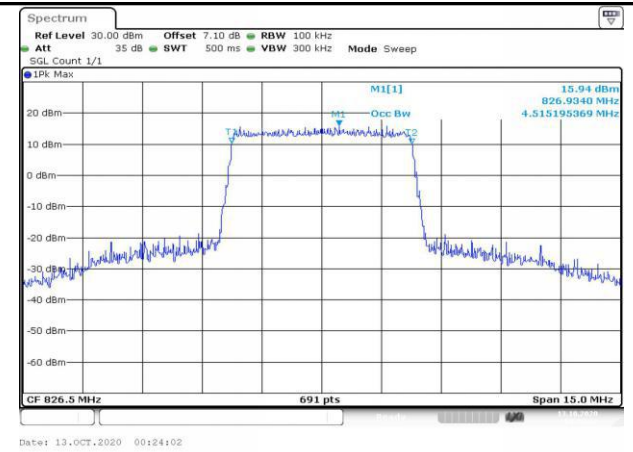
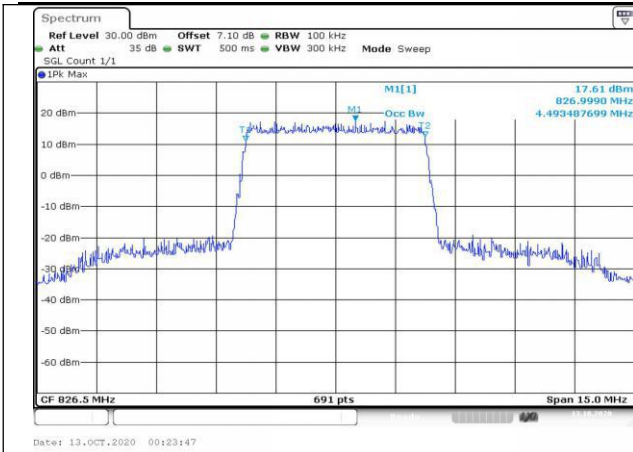
Occupied Bandwidth  
Test result

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of 99% Power (MHz) |        |        |        |        |        |
|------|-------------------------|---------|----------|---------|-----------|------------------------------|--------|--------|--------|--------|--------|
|      |                         |         |          |         |           | QPSK                         |        | 16-QAM |        | 64-QAM |        |
| 5    | 824.7                   | 20407   | 1.4      | 6       | 0         | 1.094                        | Fig.1  | 1.094  | Fig.2  | 1.094  | Fig.3  |
|      | 836.5                   | 20525   |          | 6       | 0         | 1.094                        | Fig.4  | 1.088  | Fig.5  | 1.094  | Fig.6  |
|      | 848.3                   | 20643   |          | 6       | 0         | 1.100                        | Fig.7  | 1.094  | Fig.8  | 1.106  | Fig.9  |
|      | 825.5                   | 20415   | 3        | 15      | 0         | 2.748                        | Fig.10 | 2.748  | Fig.11 | 2.748  | Fig.12 |
|      | 836.5                   | 20525   |          | 15      | 0         | 2.735                        | Fig.13 | 2.735  | Fig.14 | 2.735  | Fig.15 |
|      | 847.5                   | 20635   |          | 15      | 0         | 2.761                        | Fig.16 | 2.748  | Fig.17 | 2.735  | Fig.18 |
|      | 826.5                   | 20425   | 5        | 25      | 0         | 4.493                        | Fig.19 | 4.515  | Fig.20 | 4.493  | Fig.21 |
|      | 836.5                   | 20525   |          | 25      | 0         | 4.493                        | Fig.22 | 4.515  | Fig.23 | 4.515  | Fig.24 |
|      | 846.5                   | 20625   |          | 25      | 0         | 4.493                        | Fig.25 | 4.515  | Fig.26 | 4.515  | Fig.27 |
|      | 829                     | 20450   | 10       | 50      | 0         | 9.030                        | Fig.28 | 9.030  | Fig.29 | 9.074  | Fig.30 |
|      | 836.5                   | 20525   |          | 50      | 0         | 9.030                        | Fig.31 | 9.030  | Fig.32 | 9.030  | Fig.33 |
|      | 844                     | 20600   |          | 50      | 0         | 9.074                        | Fig.34 | 9.074  | Fig.35 | 9.074  | Fig.36 |









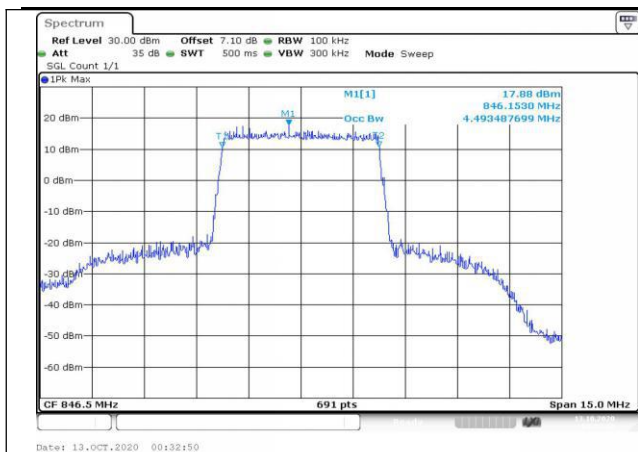


Fig.25

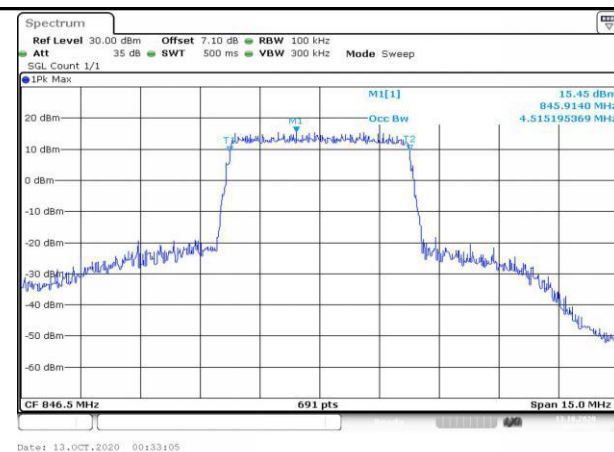


Fig.26

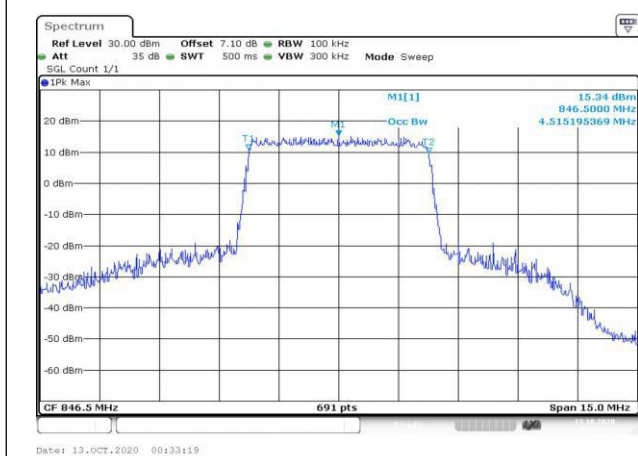


Fig.27

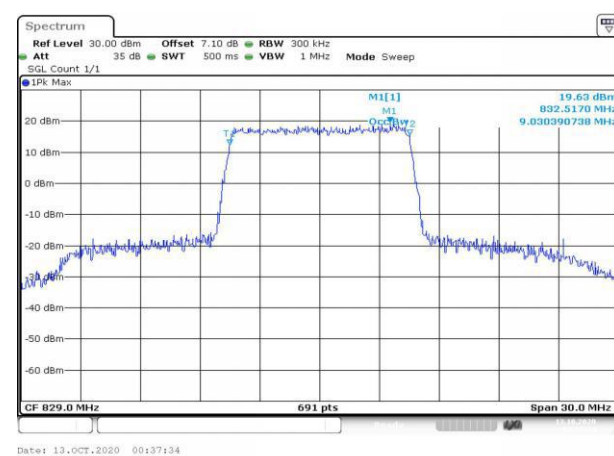


Fig.28

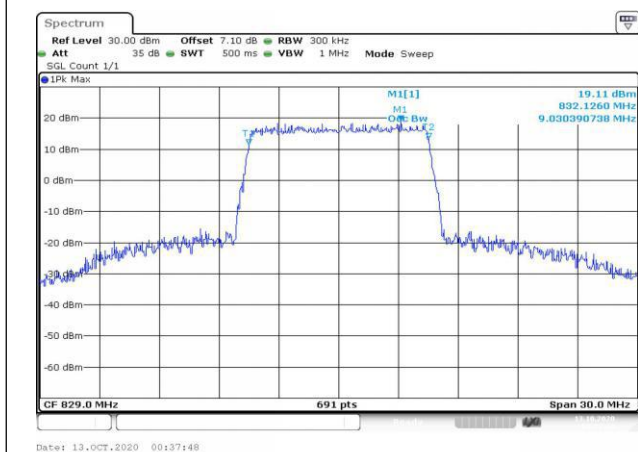


Fig.29

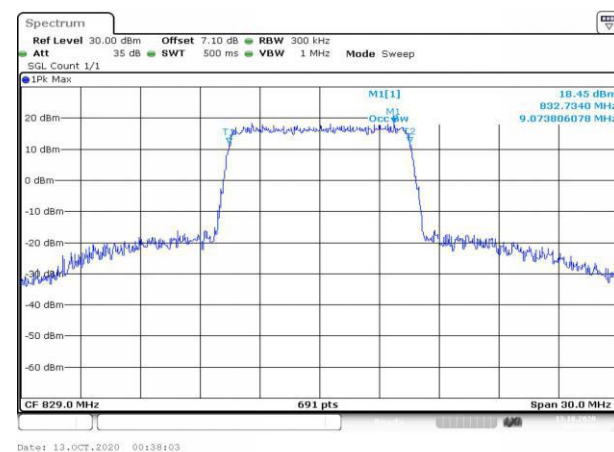
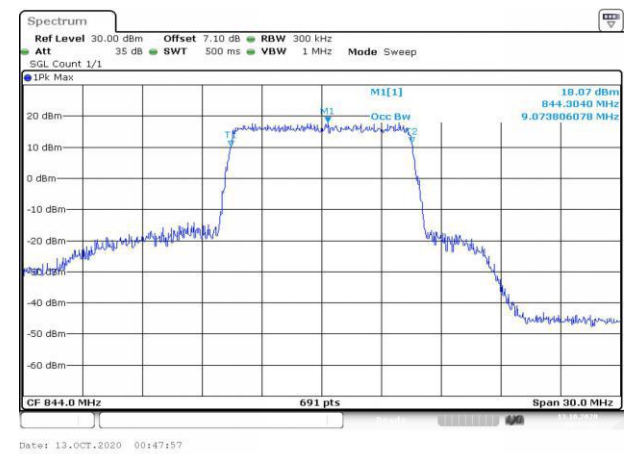
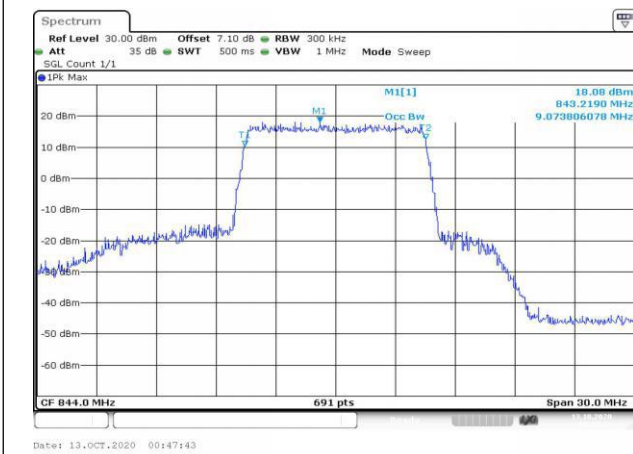
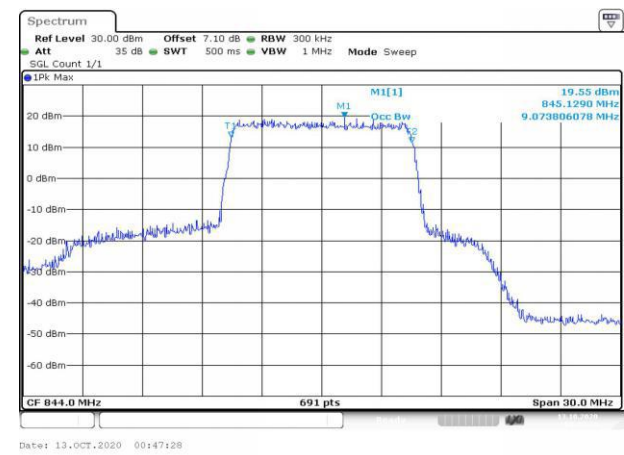
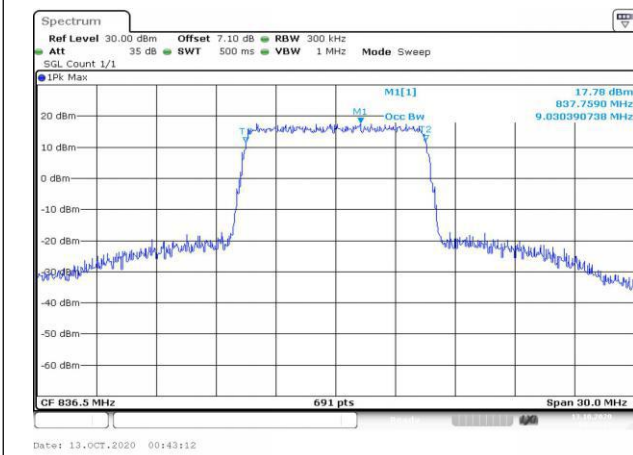
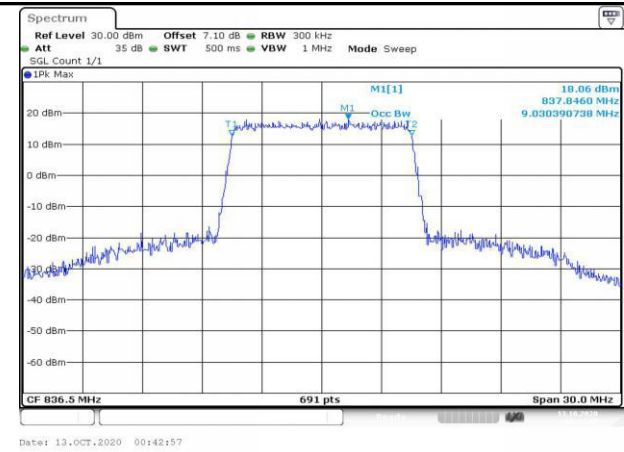
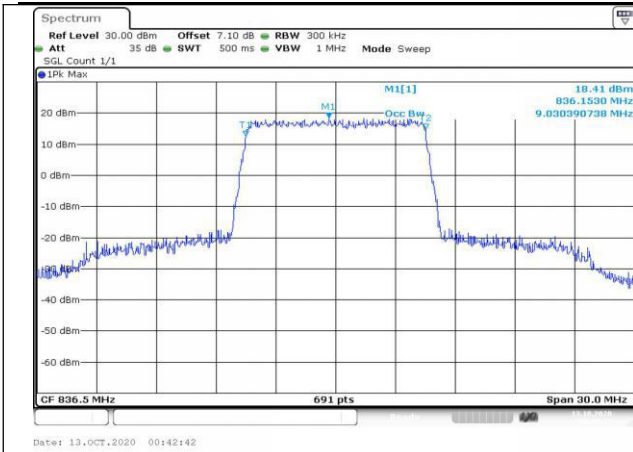


Fig.30



Emission Bandwidth  
Test result

| 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         | 1.228                                      | Fig.1  | 1.240  | Fig.2  | 1.246  | Fig.3  |
|      | 836.5                   | 20525   |          | 6       | 0         | 1.240                                      | Fig.4  | 1.228  | Fig.5  | 1.240  | Fig.6  |
|      | 848.3                   | 20643   |          | 6       | 0         | 1.222                                      | Fig.7  | 1.234  | Fig.8  | 1.228  | Fig.9  |
|      | 825.5                   | 20415   | 3        | 15      | 0         | 3.087                                      | Fig.10 | 3.100  | Fig.11 | 3.087  | Fig.12 |
|      | 836.5                   | 20525   |          | 15      | 0         | 3.074                                      | Fig.13 | 3.074  | Fig.14 | 3.100  | Fig.15 |
|      | 847.5                   | 20635   |          | 15      | 0         | 3.087                                      | Fig.16 | 3.048  | Fig.17 | 3.100  | Fig.18 |
|      | 826.5                   | 20425   | 5        | 25      | 0         | 4.928                                      | Fig.19 | 4.949  | Fig.20 | 4.949  | Fig.21 |
|      | 836.5                   | 20525   |          | 25      | 0         | 4.949                                      | Fig.22 | 4.949  | Fig.23 | 4.949  | Fig.24 |
|      | 846.5                   | 20625   |          | 25      | 0         | 4.949                                      | Fig.25 | 4.949  | Fig.26 | 4.949  | Fig.27 |
|      | 829                     | 20450   | 10       | 50      | 0         | 10.072                                     | Fig.28 | 10.029 | Fig.29 | 10.072 | Fig.30 |
|      | 836.5                   | 20525   |          | 50      | 0         | 9.942                                      | Fig.31 | 10.029 | Fig.32 | 9.942  | Fig.33 |
|      | 844                     | 20600   |          | 50      | 0         | 9.986                                      | Fig.34 | 10.072 | Fig.35 | 10.072 | Fig.36 |

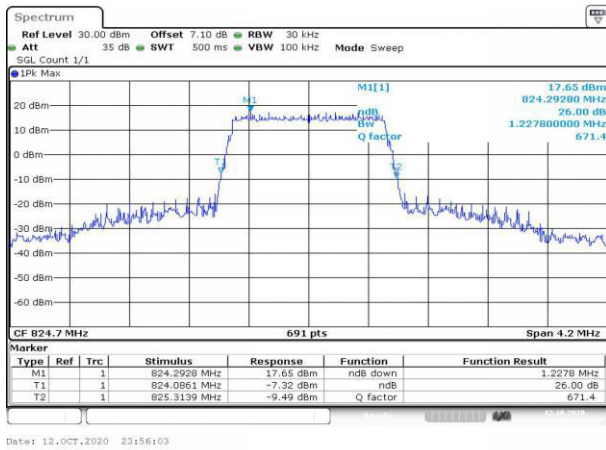


Fig.1

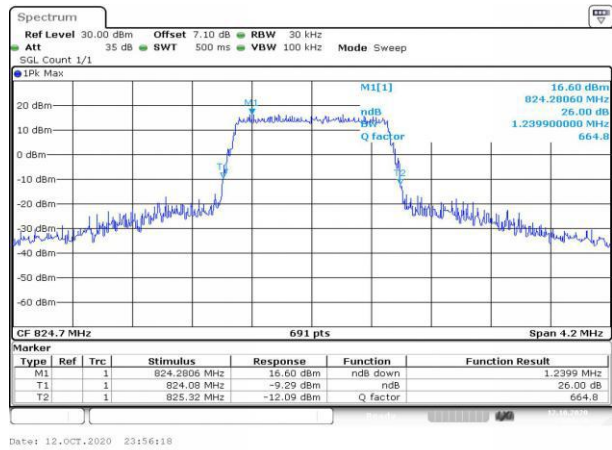


Fig.2

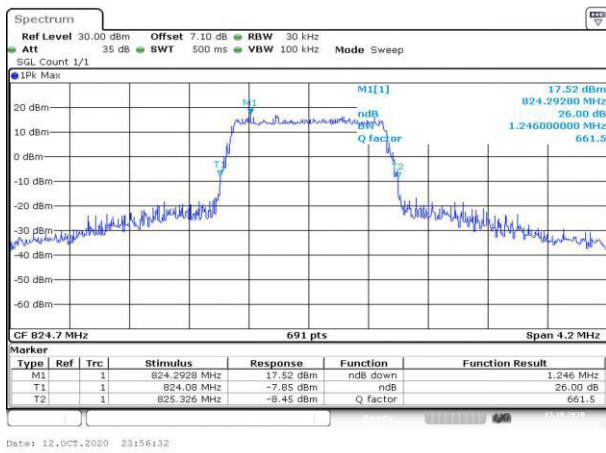


Fig.3

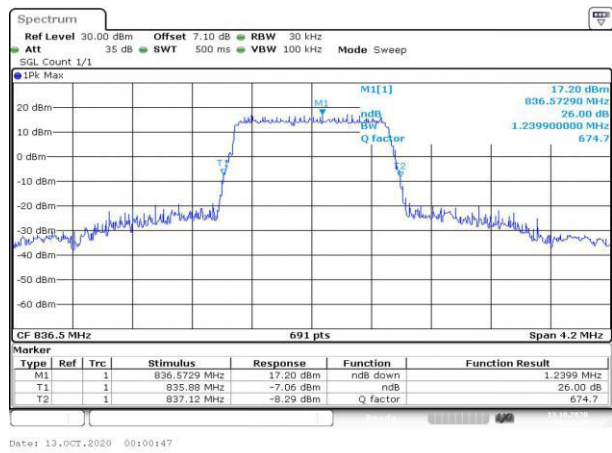


Fig.4

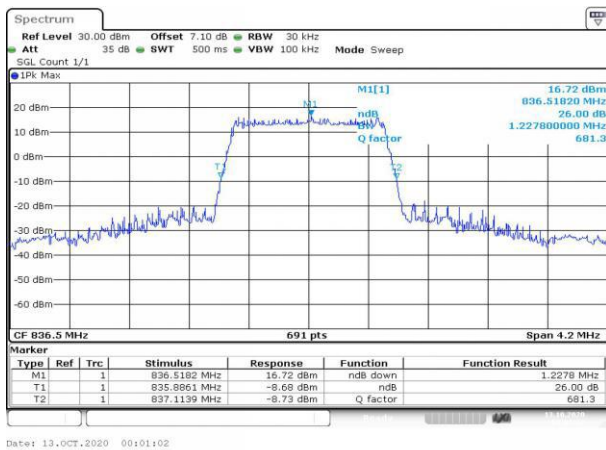


Fig.5

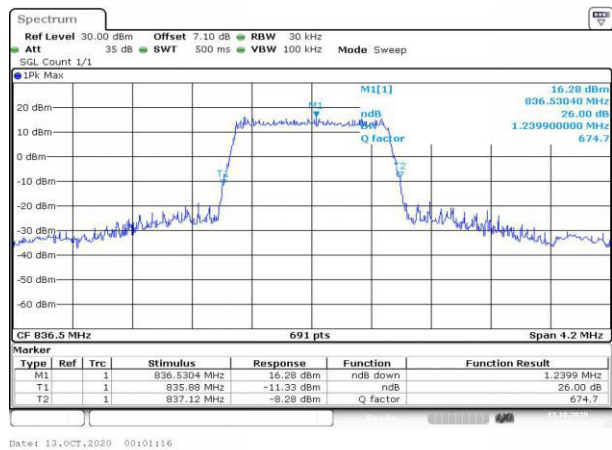


Fig.6

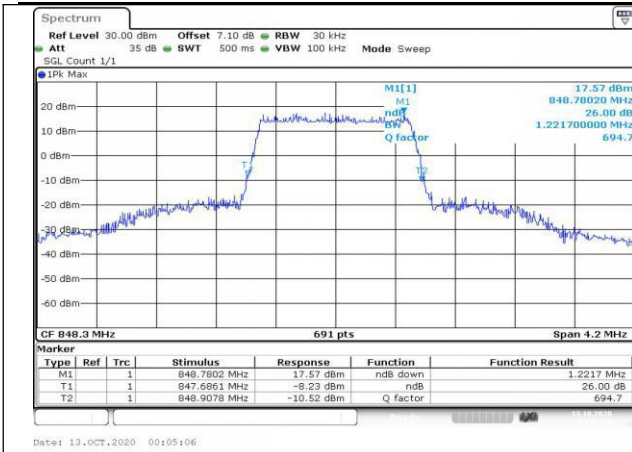


Fig.7

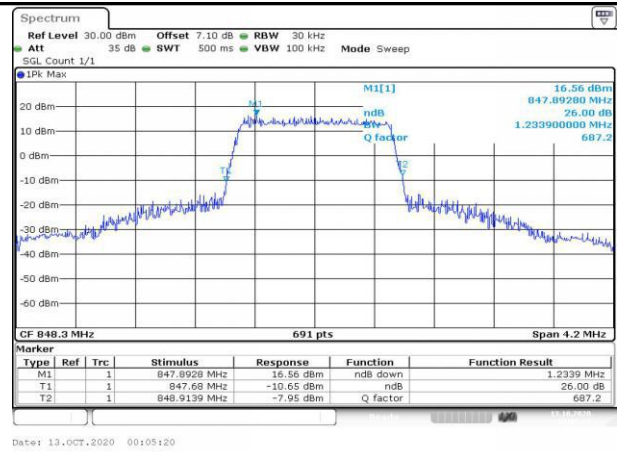


Fig.8

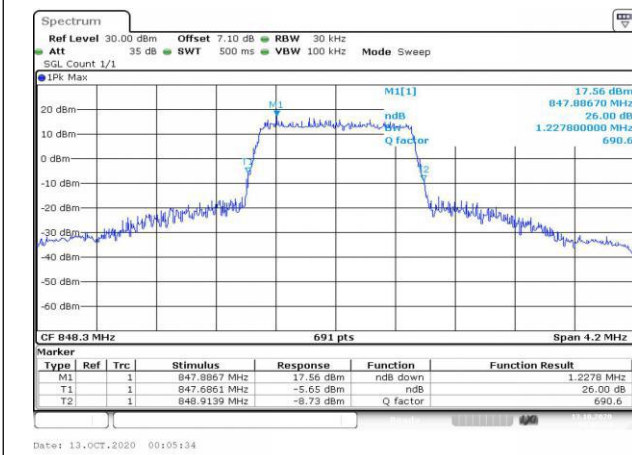


Fig.9

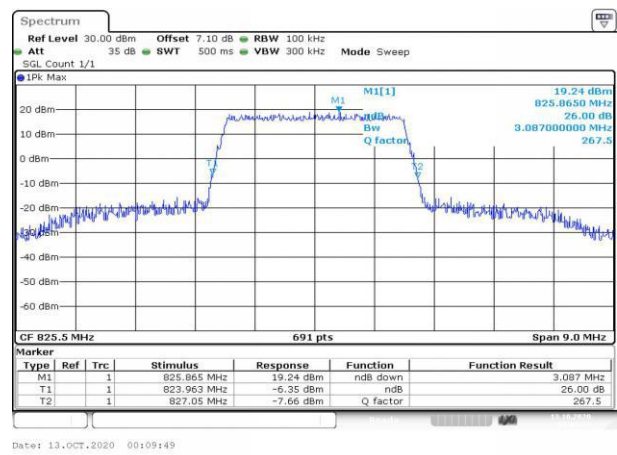


Fig.10

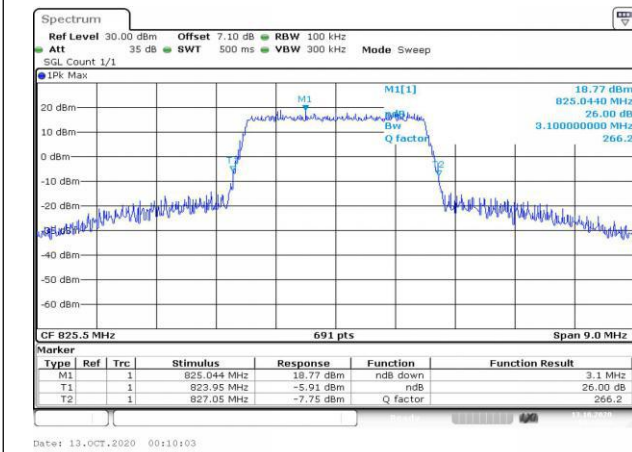


Fig.11

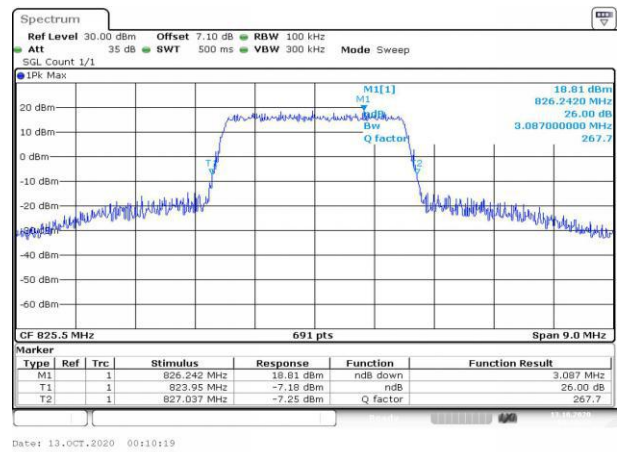


Fig.12

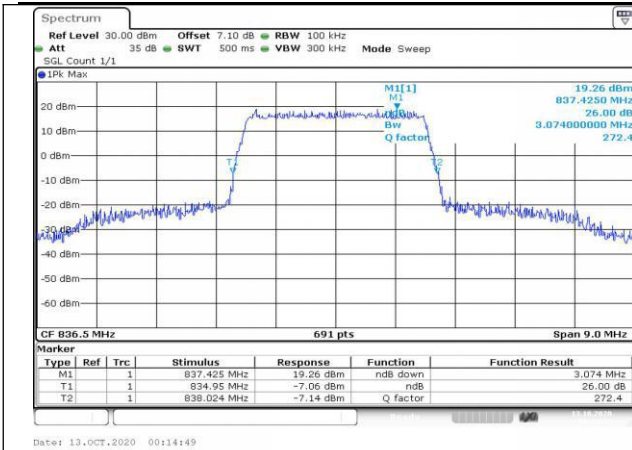


Fig.13

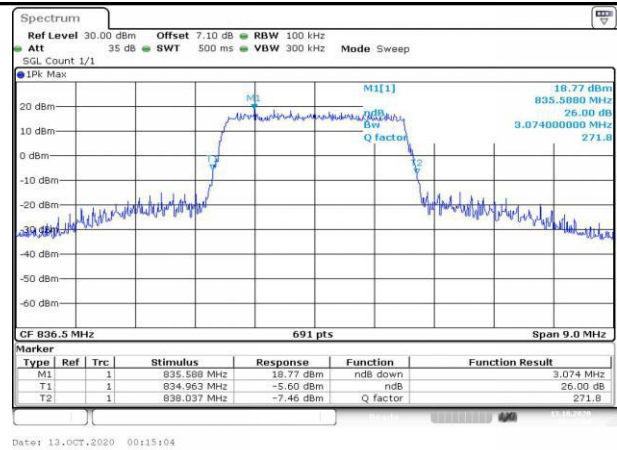


Fig.14

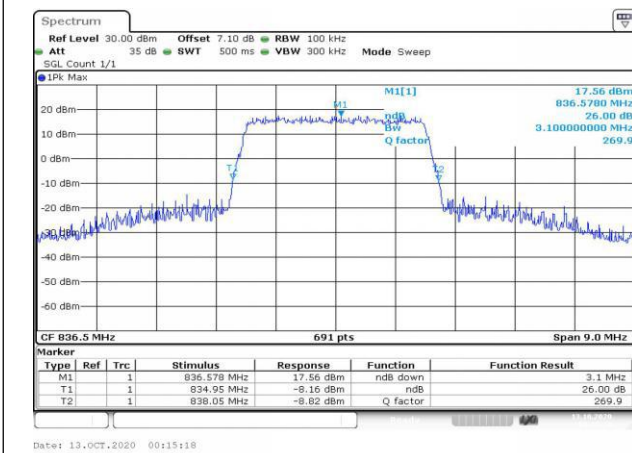


Fig.15

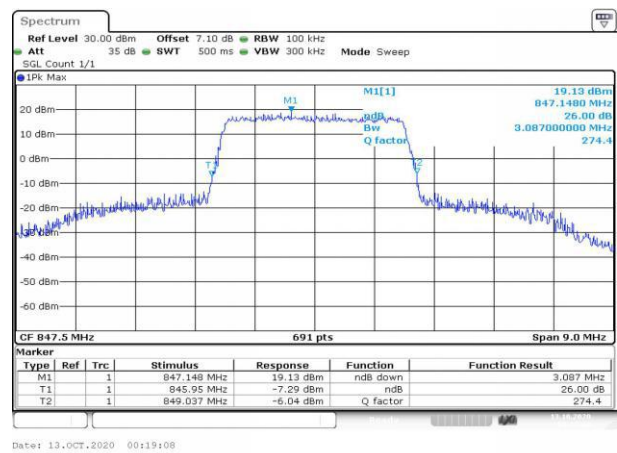


Fig.16

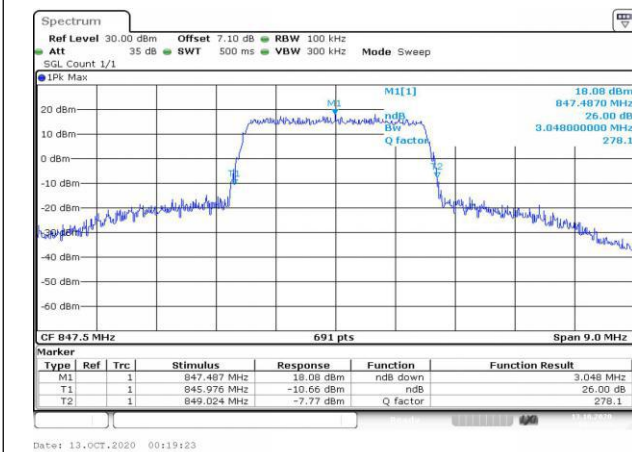


Fig.17

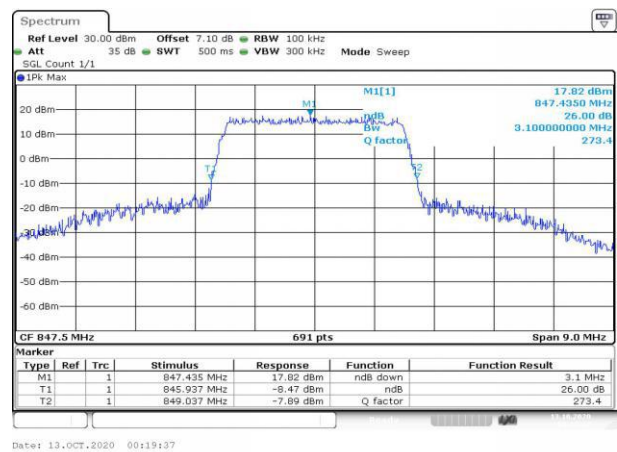


Fig.18

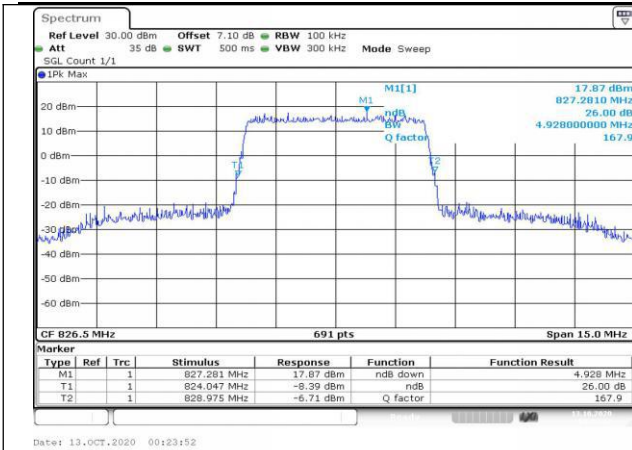


Fig.19

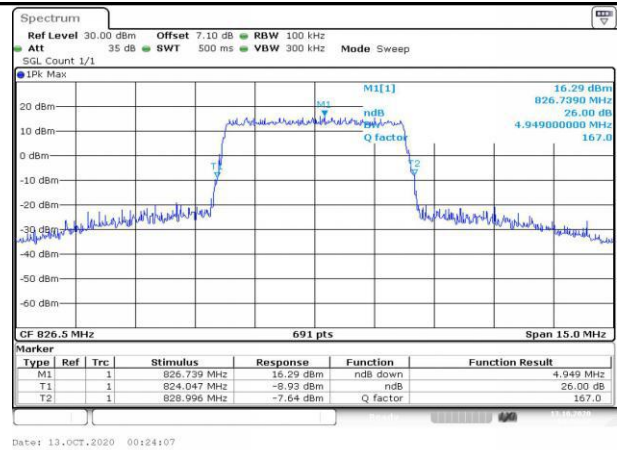


Fig.20

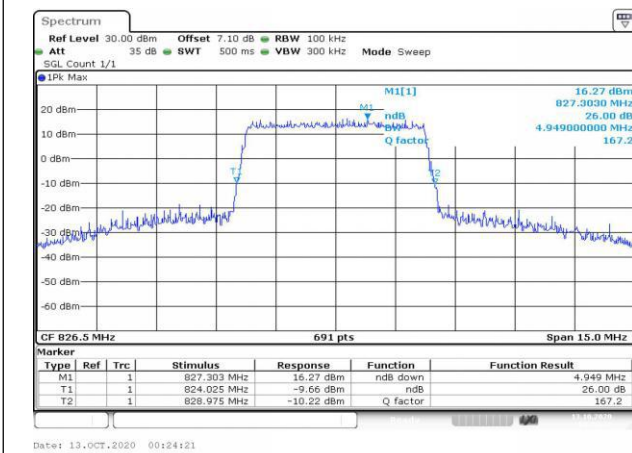


Fig.21

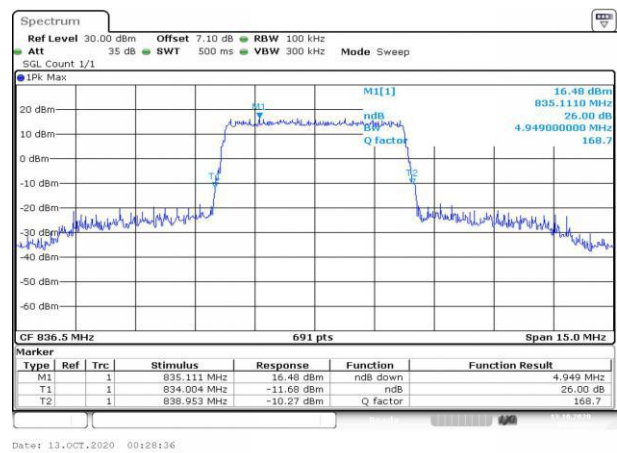


Fig.22

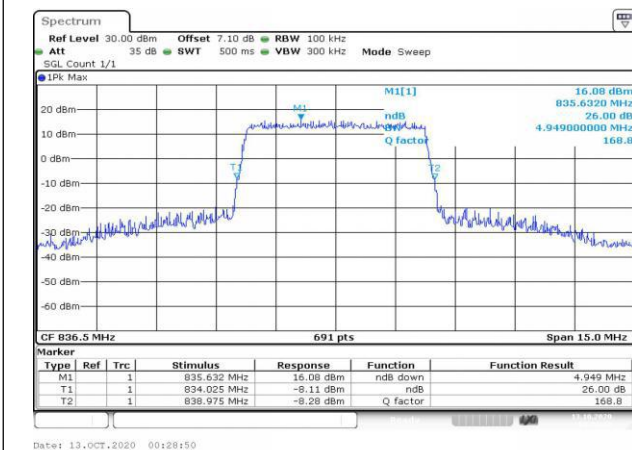


Fig.23

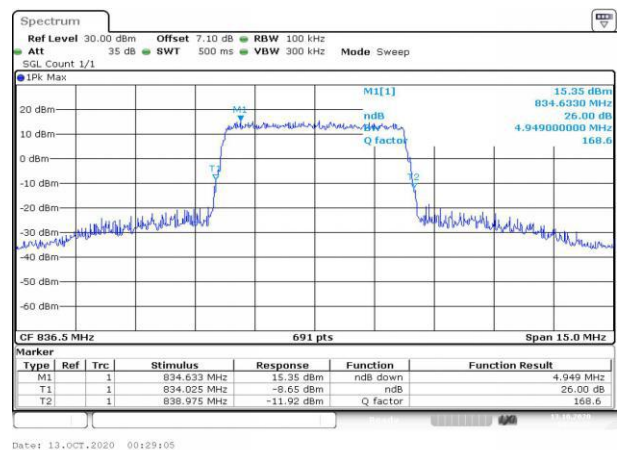


Fig.24

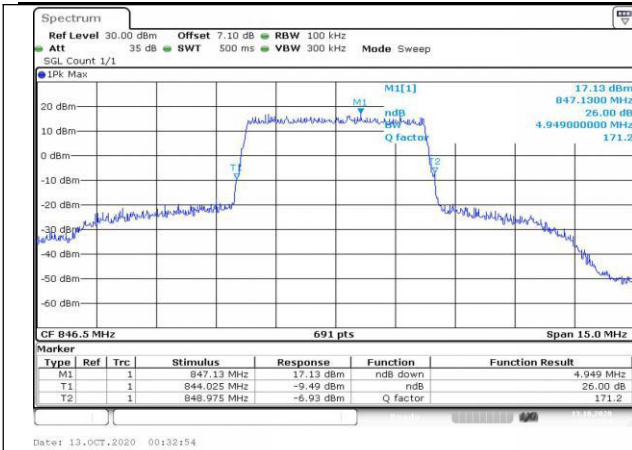


Fig.25

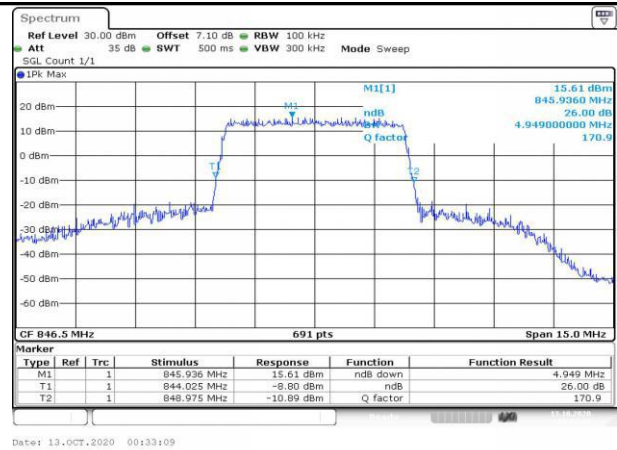


Fig.26

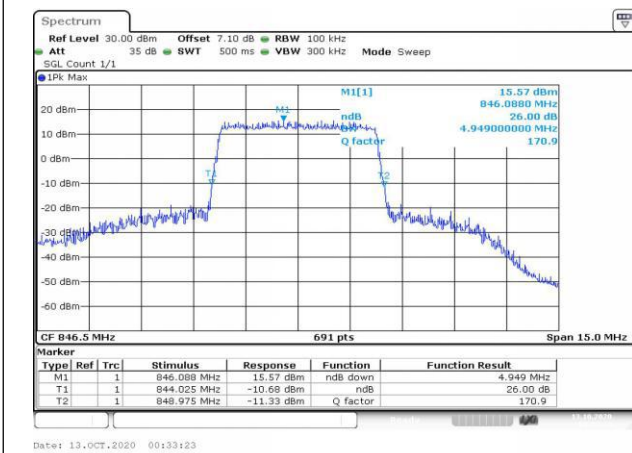


Fig.27

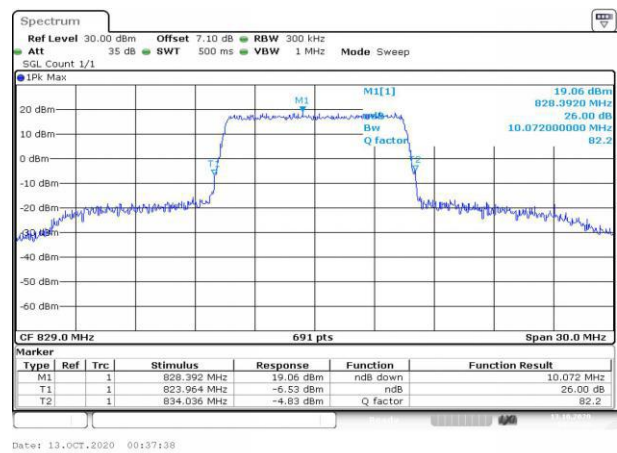


Fig.28

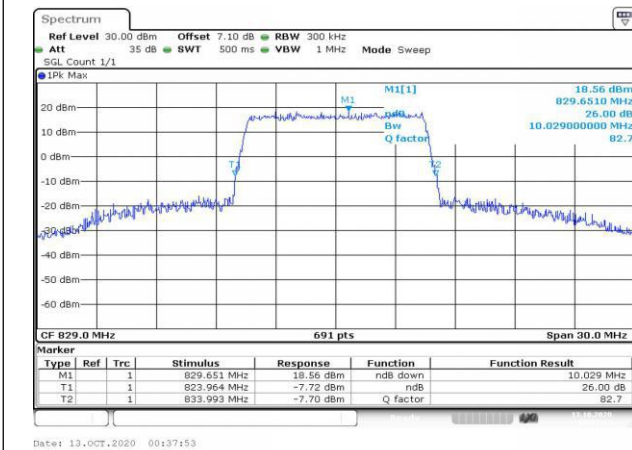


Fig.29

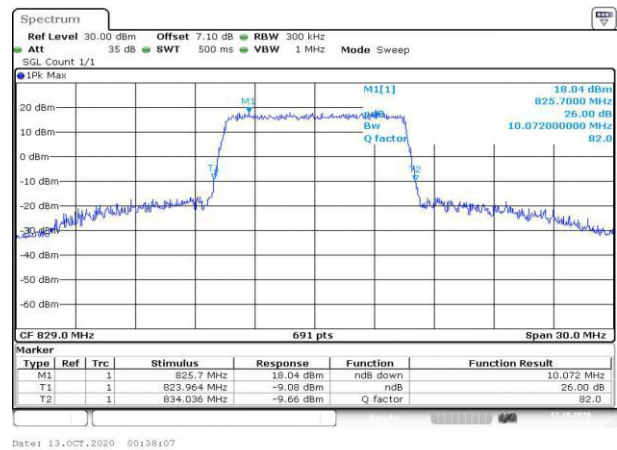


Fig.30

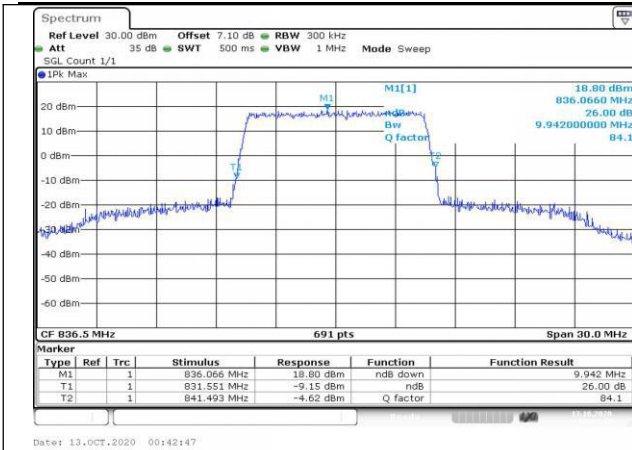


Fig.31

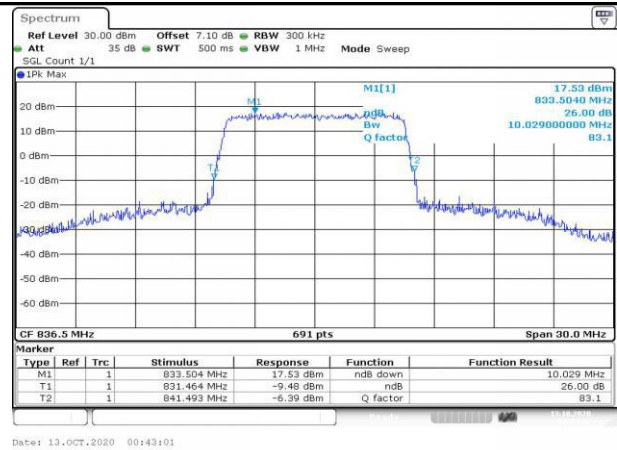


Fig.32

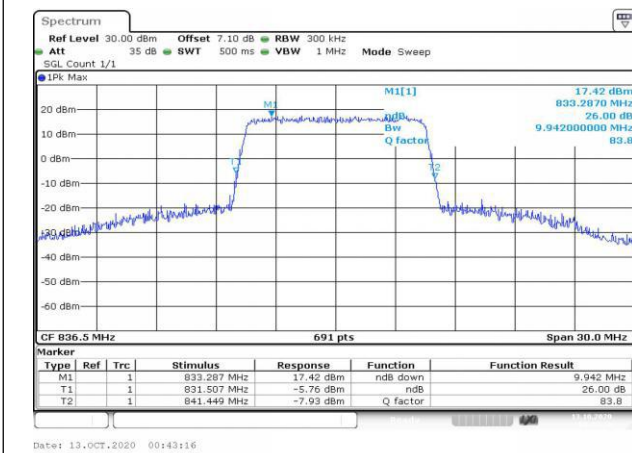


Fig.33

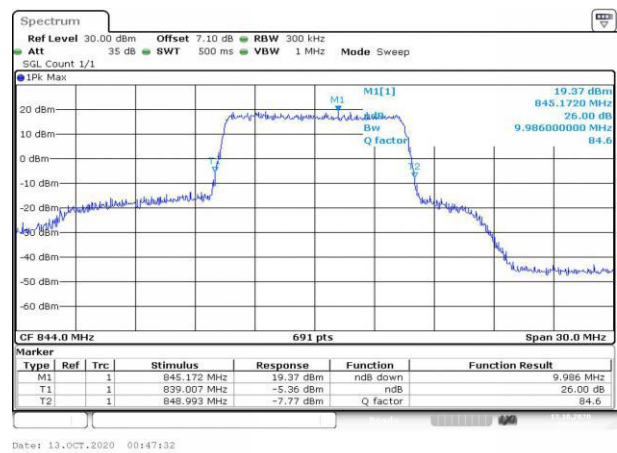


Fig.34

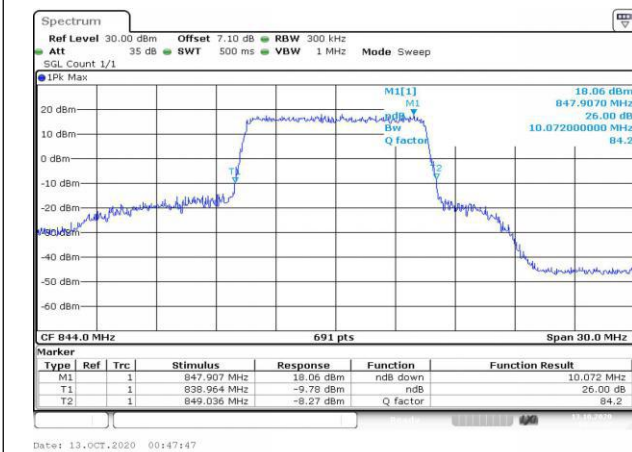


Fig.35

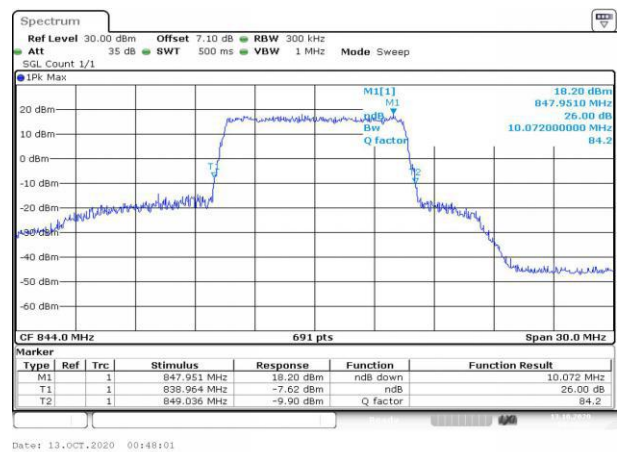


Fig.36

Peak-Average Ratio

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | QPSK   | 16-QAM | 64-QAM |
|------|-------------------------|---------|----------|---------|-----------|--------|--------|--------|
| 5    | 824.7                   | 20407   | 1.4      | 1       | 5         | Fig.1  | Fig.2  | Fig.3  |
|      | 824.7                   | 20407   | 1.4      | 6       | 0         | Fig.4  | Fig.5  | Fig.6  |
|      | 836.5                   | 20525   | 1.4      | 1       | 5         | Fig.7  | Fig.8  | Fig.9  |
|      | 836.5                   | 20525   | 1.4      | 6       | 0         | Fig.10 | Fig.11 | Fig.12 |
|      | 848.3                   | 20643   | 1.4      | 1       | 5         | Fig.13 | Fig.14 | Fig.15 |
|      | 848.3                   | 20643   | 1.4      | 6       | 0         | Fig.16 | Fig.17 | Fig.18 |
|      | 825.5                   | 20415   | 3        | 1       | 14        | Fig.19 | Fig.20 | Fig.21 |
|      | 825.5                   | 20415   | 3        | 15      | 0         | Fig.22 | Fig.23 | Fig.24 |
|      | 836.5                   | 20525   | 3        | 1       | 14        | Fig.25 | Fig.26 | Fig.27 |
|      | 836.5                   | 20525   | 3        | 15      | 0         | Fig.28 | Fig.29 | Fig.30 |
|      | 847.5                   | 20635   | 3        | 1       | 14        | Fig.31 | Fig.32 | Fig.33 |
|      | 847.5                   | 20635   | 3        | 15      | 0         | Fig.34 | Fig.35 | Fig.36 |
|      | 826.5                   | 20425   | 5        | 1       | 24        | Fig.37 | Fig.38 | Fig.39 |
|      | 826.5                   | 20425   | 5        | 25      | 0         | Fig.40 | Fig.41 | Fig.42 |
|      | 836.5                   | 20525   | 5        | 1       | 24        | Fig.43 | Fig.44 | Fig.45 |
|      | 836.5                   | 20525   | 5        | 25      | 0         | Fig.46 | Fig.47 | Fig.48 |
|      | 846.5                   | 20625   | 5        | 1       | 24        | Fig.49 | Fig.50 | Fig.51 |
|      | 846.5                   | 20625   | 5        | 25      | 0         | Fig.52 | Fig.53 | Fig.54 |
|      | 829                     | 20450   | 10       | 1       | 49        | Fig.55 | Fig.56 | Fig.57 |
|      | 829                     | 20450   | 10       | 50      | 0         | Fig.58 | Fig.59 | Fig.60 |
|      | 836.5                   | 20525   | 10       | 1       | 49        | Fig.61 | Fig.62 | Fig.63 |
|      | 836.5                   | 20525   | 10       | 50      | 0         | Fig.64 | Fig.65 | Fig.66 |
|      | 844                     | 20600   | 10       | 1       | 49        | Fig.67 | Fig.68 | Fig.69 |
|      | 844                     | 20600   | 10       | 50      | 0         | Fig.70 | Fig.71 | Fig.72 |

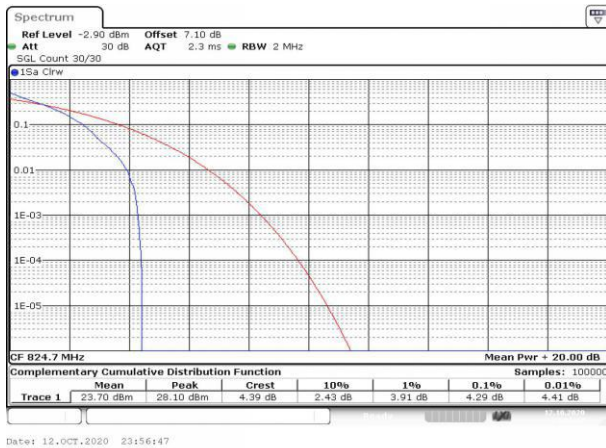


Fig.1

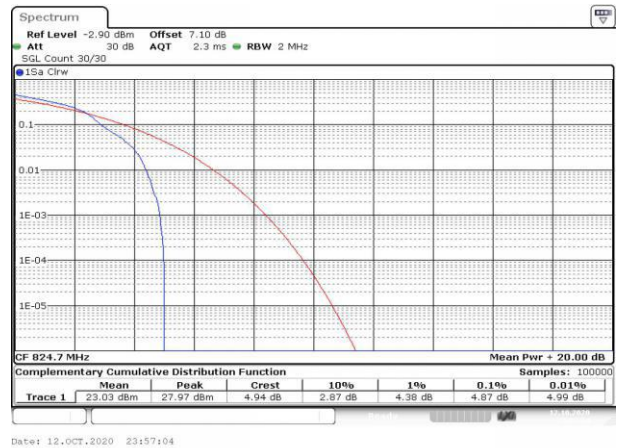


Fig.2

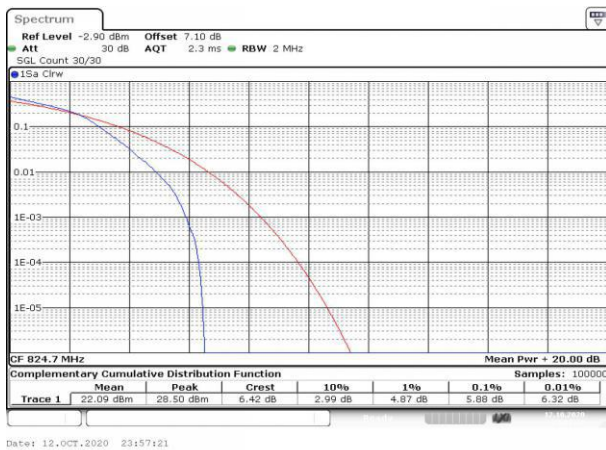


Fig.3

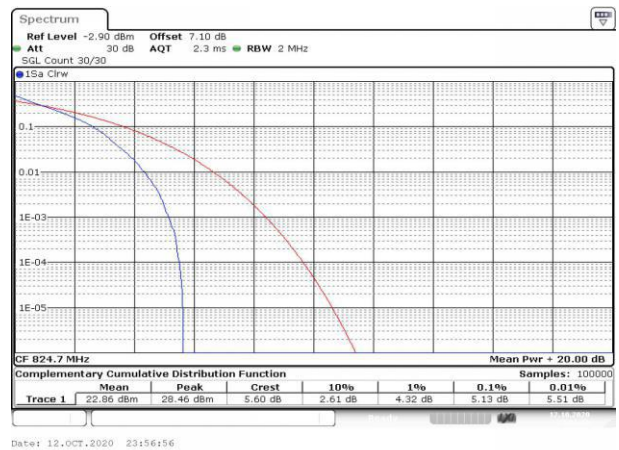


Fig.4

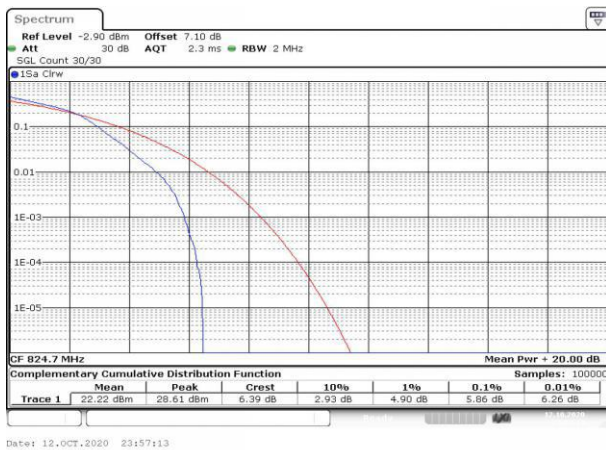


Fig.5

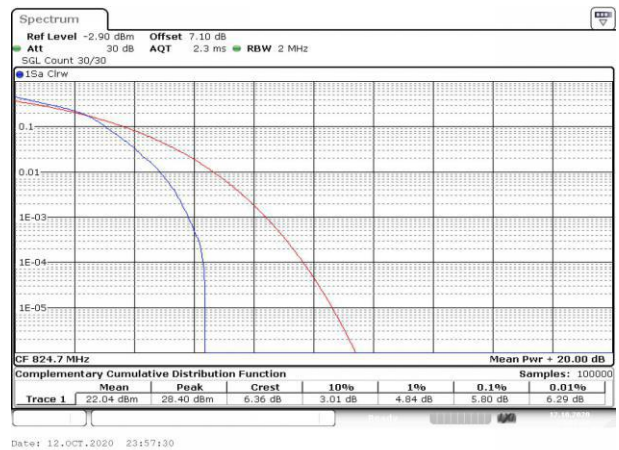


Fig.6

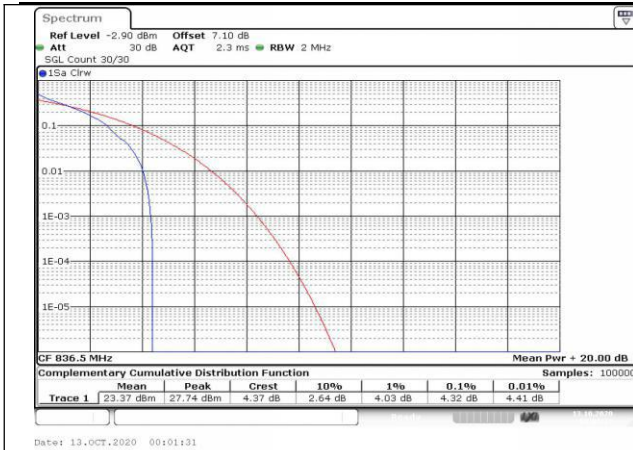


Fig.7

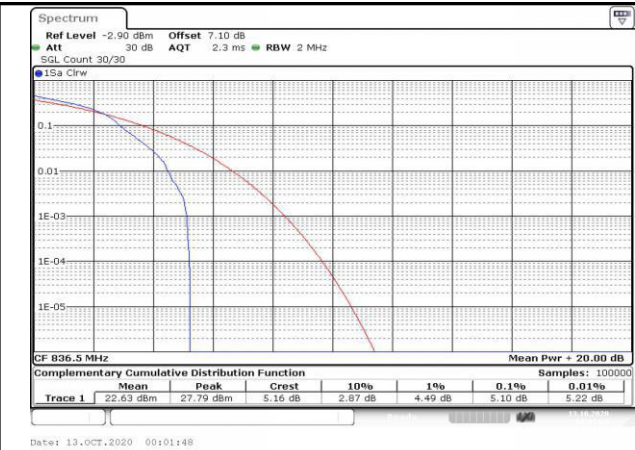


Fig.8

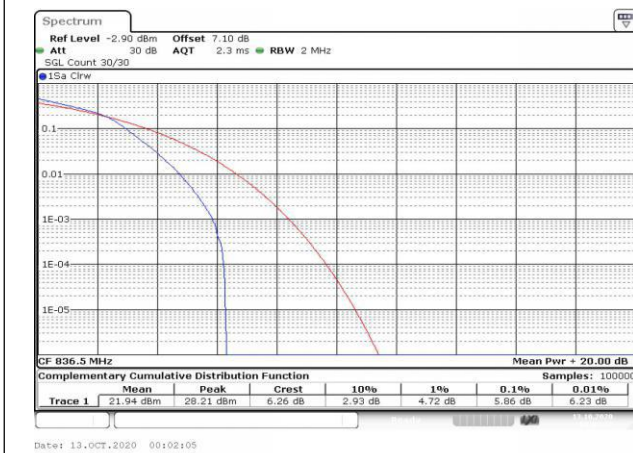


Fig.9

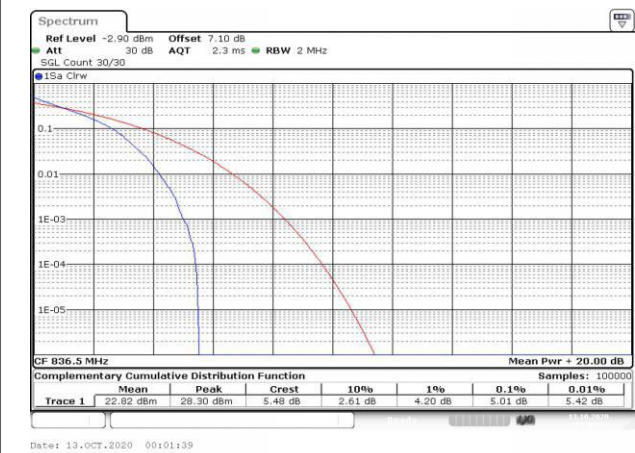


Fig.10

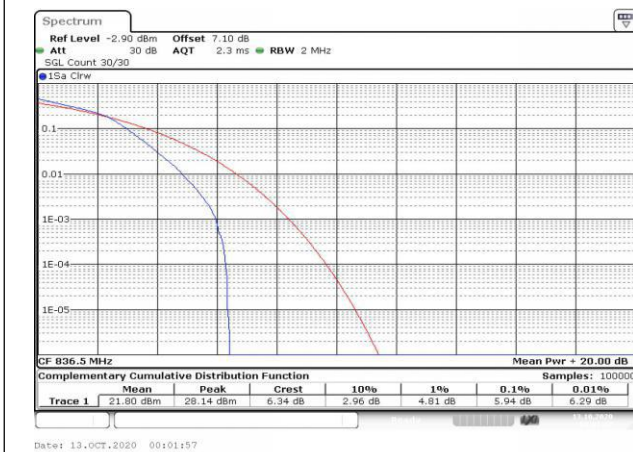


Fig.11

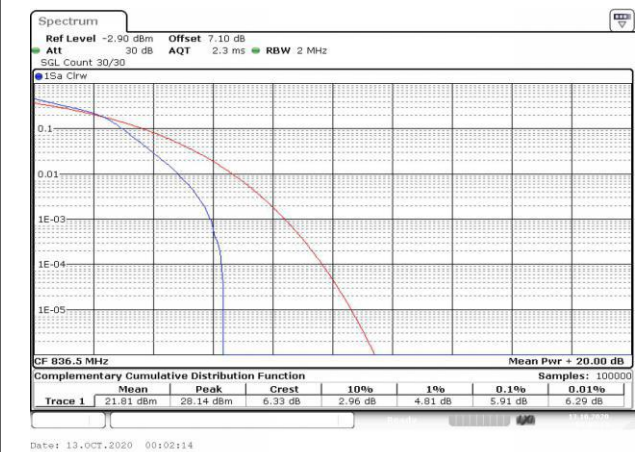


Fig.12



Fig.13

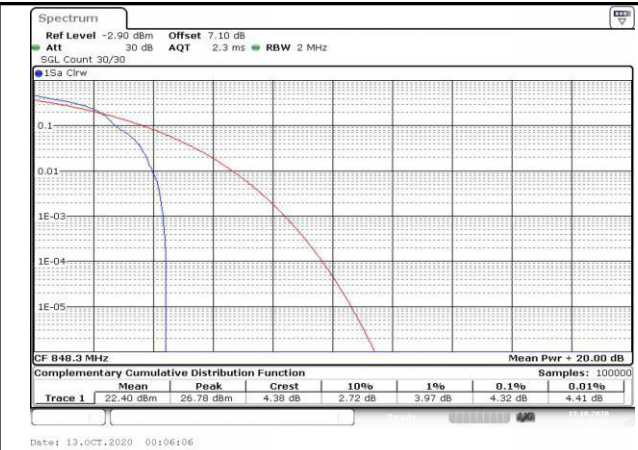


Fig.14

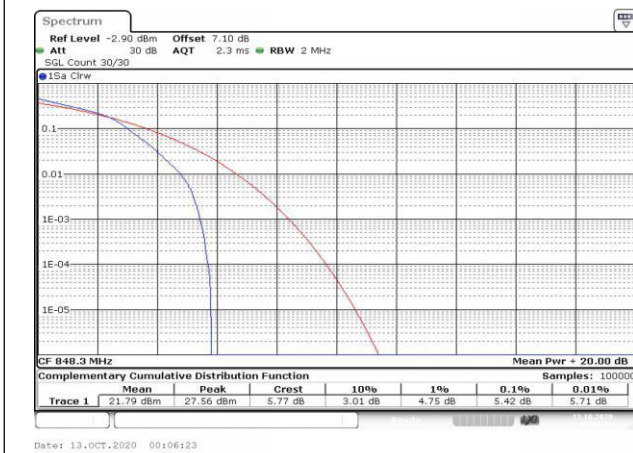


Fig.15

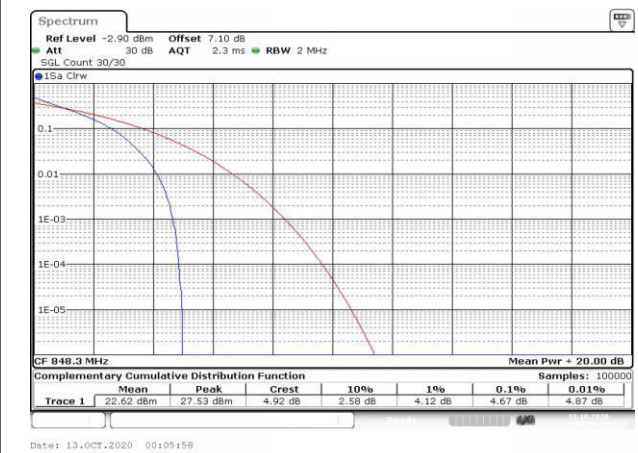


Fig.16

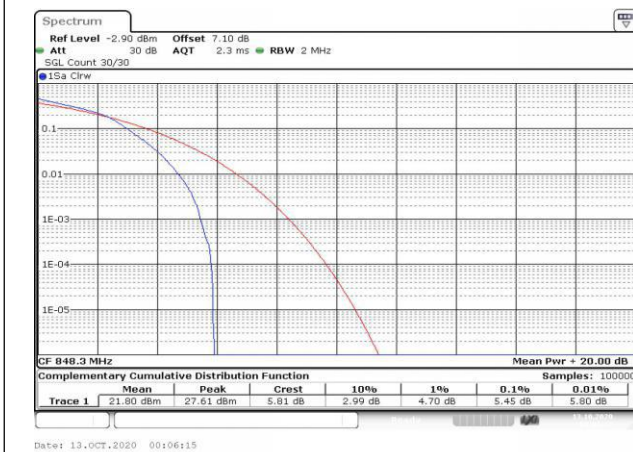


Fig.17

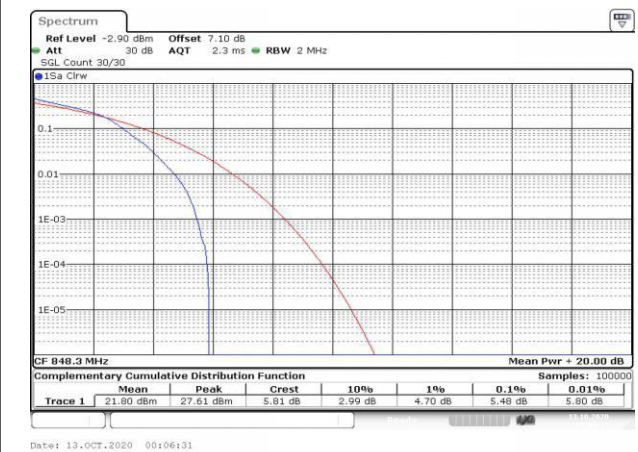


Fig.18