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# Appendix B.19

LTE CA\_5B



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## Effective (Isotropic) Radiated Power Output Data

### Test ResultAnt7

| Band | Bandwidth   | Modulation    | Channel     | RB Configuration | Result (dBm) | ERP (dBm) | Limit (dBm) | Verdict |
|------|-------------|---------------|-------------|------------------|--------------|-----------|-------------|---------|
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20450-20549 | 1RB#0-0RB#0      | 22.73        | 9.9       | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20450-20549 | 50RB#0-50RB#0    | 21.05        | 8.22      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20476-20575 | 1RB#0-0RB#0      | 22.71        | 9.88      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20476-20575 | 50RB#0-50RB#0    | 20.92        | 8.09      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20501-20600 | 1RB#0-0RB#0      | 22.81        | 9.98      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20501-20600 | 50RB#0-50RB#0    | 20.81        | 7.98      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20450-20549 | 1RB#0-0RB#0      | 22.1         | 9.27      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20450-20549 | 50RB#0-50RB#0    | 19.95        | 7.12      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20476-20575 | 1RB#0-0RB#0      | 22.05        | 9.22      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20476-20575 | 50RB#0-50RB#0    | 19.81        | 6.98      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20501-20600 | 1RB#0-0RB#0      | 21.92        | 9.09      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20501-20600 | 50RB#0-50RB#0    | 19.96        | 7.13      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20450-20549 | 1RB#0-0RB#0      | 21.02        | 8.19      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20450-20549 | 50RB#0-50RB#0    | 19.89        | 7.06      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20476-20575 | 1RB#0-0RB#0      | 21.12        | 8.29      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20476-20575 | 50RB#0-50RB#0    | 19.9         | 7.07      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20501-20600 | 1RB#0-0RB#0      | 21.07        | 8.24      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20501-20600 | 50RB#0-50RB#0    | 19.86        | 7.03      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20450-20549 | 1RB#0-0RB#0      | 17.82        | 4.99      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20450-20549 | 50RB#0-50RB#0    | 17.89        | 5.06      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20476-20575 | 1RB#0-0RB#0      | 17.88        | 5.05      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20476-20575 | 50RB#0-50RB#0    | 17.9         | 5.07      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20501-20600 | 1RB#0-0RB#0      | 17.98        | 5.15      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20501-20600 | 50RB#0-50RB#0    | 18           | 5.17      | 38.45       | PASS    |
| 5-5  | 10MHz-5MHz  | QPSK-QPSK     | 20450-20522 | 1RB#0-0RB#0      | 22.63        | 9.8       | 38.45       | PASS    |
| 5-5  | 10MHz-5MHz  | QPSK-QPSK     | 20450-20522 | 50RB#0-25RB#0    | 21.07        | 8.24      | 38.45       | PASS    |
| 5-5  | 10MHz-5MHz  | QPSK-QPSK     | 20500-20572 | 1RB#0-0RB#0      | 22.62        | 9.79      | 38.45       | PASS    |



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| 5-5 | 10MHz-5MHz | QPSK-QPSK     | 20500-20572 | 50RB#0-25RB#0 | 21.02 | 8.19  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | QPSK-QPSK     | 20550-20622 | 1RB#0-0RB#0   | 22.82 | 9.99  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | QPSK-QPSK     | 20550-20622 | 50RB#0-25RB#0 | 21    | 8.17  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 16QAM-16QAM   | 20450-20522 | 1RB#0-0RB#0   | 22.04 | 9.21  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 16QAM-16QAM   | 20450-20522 | 50RB#0-25RB#0 | 19.95 | 7.12  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 16QAM-16QAM   | 20500-20572 | 1RB#0-0RB#0   | 21.99 | 9.16  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 16QAM-16QAM   | 20500-20572 | 50RB#0-25RB#0 | 19.91 | 7.08  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 16QAM-16QAM   | 20550-20622 | 1RB#0-0RB#0   | 22.14 | 9.31  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 16QAM-16QAM   | 20550-20622 | 50RB#0-25RB#0 | 20.03 | 7.2   | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 64QAM-64QAM   | 20450-20522 | 1RB#0-0RB#0   | 21.14 | 8.31  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 64QAM-64QAM   | 20450-20522 | 50RB#0-25RB#0 | 20.15 | 7.32  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 64QAM-64QAM   | 20500-20572 | 1RB#0-0RB#0   | 21.1  | 8.27  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 64QAM-64QAM   | 20500-20572 | 50RB#0-25RB#0 | 19.96 | 7.13  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 64QAM-64QAM   | 20550-20622 | 1RB#0-0RB#0   | 21.11 | 8.28  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 64QAM-64QAM   | 20550-20622 | 50RB#0-25RB#0 | 20.14 | 7.31  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 256QAM-256QAM | 20450-20522 | 1RB#0-0RB#0   | 18.04 | 5.21  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 256QAM-256QAM | 20450-20522 | 50RB#0-25RB#0 | 17.99 | 5.16  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 256QAM-256QAM | 20500-20572 | 1RB#0-0RB#0   | 17.93 | 5.1   | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 256QAM-256QAM | 20500-20572 | 50RB#0-25RB#0 | 17.94 | 5.11  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 256QAM-256QAM | 20550-20622 | 1RB#0-0RB#0   | 17.95 | 5.12  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 256QAM-256QAM | 20550-20622 | 50RB#0-25RB#0 | 17.94 | 5.11  | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | QPSK-QPSK     | 20416-20455 | 15RB#0-25RB#0 | 23.09 | 10.26 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | QPSK-QPSK     | 20416-20455 | 1RB#0-0RB#0   | 22.93 | 10.1  | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | QPSK-QPSK     | 20501-20540 | 15RB#0-25RB#0 | 23.07 | 10.24 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | QPSK-QPSK     | 20501-20540 | 1RB#0-0RB#0   | 23.07 | 10.24 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | QPSK-QPSK     | 20586-20625 | 15RB#0-25RB#0 | 23.1  | 10.27 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | QPSK-QPSK     | 20586-20625 | 1RB#0-0RB#0   | 23.01 | 10.18 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 16QAM-16QAM   | 20416-20455 | 15RB#0-25RB#0 | 23.05 | 10.22 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 16QAM-16QAM   | 20416-20455 | 1RB#0-0RB#0   | 23.4  | 10.57 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 16QAM-16QAM   | 20501-20540 | 15RB#0-25RB#0 | 23.09 | 10.26 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 16QAM-16QAM   | 20501-20540 | 1RB#0-0RB#0   | 23.34 | 10.51 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 16QAM-16QAM   | 20586-20625 | 15RB#0-25RB#0 | 23.22 | 10.39 | 38.45 | PASS |



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| 5-5 | 3MHz-5MHz  | 16QAM-16QAM   | 20586-20625 | 1RB#0-0RB#0   | 23.34 | 10.51 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 64QAM-64QAM   | 20416-20455 | 15RB#0-25RB#0 | 23.04 | 10.21 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 64QAM-64QAM   | 20416-20455 | 1RB#0-0RB#0   | 23.45 | 10.62 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 64QAM-64QAM   | 20501-20540 | 15RB#0-25RB#0 | 23.11 | 10.28 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 64QAM-64QAM   | 20501-20540 | 1RB#0-0RB#0   | 23.47 | 10.64 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 64QAM-64QAM   | 20586-20625 | 15RB#0-25RB#0 | 23.2  | 10.37 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 64QAM-64QAM   | 20586-20625 | 1RB#0-0RB#0   | 23.33 | 10.5  | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 256QAM-256QAM | 20416-20455 | 15RB#0-25RB#0 | 23.01 | 10.18 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 256QAM-256QAM | 20416-20455 | 1RB#0-0RB#0   | 23.18 | 10.35 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 256QAM-256QAM | 20501-20540 | 15RB#0-25RB#0 | 23.09 | 10.26 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 256QAM-256QAM | 20501-20540 | 1RB#0-0RB#0   | 23.23 | 10.4  | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 256QAM-256QAM | 20586-20625 | 15RB#0-25RB#0 | 23.14 | 10.31 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | 256QAM-256QAM | 20586-20625 | 1RB#0-0RB#0   | 23.41 | 10.58 | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20428-20500 | 1RB#0-0RB#0   | 22.71 | 9.88  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20428-20500 | 25RB#0-50RB#0 | 20.91 | 8.08  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20478-20550 | 1RB#0-0RB#0   | 22.64 | 9.81  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20478-20550 | 25RB#0-50RB#0 | 20.86 | 8.03  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20528-20600 | 1RB#0-0RB#0   | 22.75 | 9.92  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20528-20600 | 25RB#0-50RB#0 | 21.03 | 8.2   | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20428-20500 | 1RB#0-0RB#0   | 21.97 | 9.14  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20428-20500 | 25RB#0-50RB#0 | 19.94 | 7.11  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20478-20550 | 1RB#0-0RB#0   | 21.94 | 9.11  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20478-20550 | 25RB#0-50RB#0 | 20.02 | 7.19  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20528-20600 | 1RB#0-0RB#0   | 21.95 | 9.12  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20528-20600 | 25RB#0-50RB#0 | 19.88 | 7.05  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20428-20500 | 1RB#0-0RB#0   | 21.11 | 8.28  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20428-20500 | 25RB#0-50RB#0 | 19.91 | 7.08  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20478-20550 | 1RB#0-0RB#0   | 20.77 | 7.94  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20478-20550 | 25RB#0-50RB#0 | 19.84 | 7.01  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20528-20600 | 1RB#0-0RB#0   | 21.12 | 8.29  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20528-20600 | 25RB#0-50RB#0 | 19.98 | 7.15  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20428-20500 | 1RB#0-0RB#0   | 17.9  | 5.07  | 38.45 | PASS |



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| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20428-20500 | 25RB#0-50RB#0 | 18.03 | 5.2   | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20478-20550 | 1RB#0-0RB#0   | 17.88 | 5.05  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20478-20550 | 25RB#0-50RB#0 | 17.88 | 5.05  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20528-20600 | 1RB#0-0RB#0   | 18.08 | 5.25  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20528-20600 | 25RB#0-50RB#0 | 17.94 | 5.11  | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20425-20464 | 1RB#0-0RB#0   | 22.8  | 9.97  | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20425-20464 | 25RB#0-15RB#0 | 23.15 | 10.32 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20510-20549 | 1RB#0-0RB#0   | 22.78 | 9.95  | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20510-20549 | 25RB#0-15RB#0 | 23.1  | 10.27 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20595-20634 | 1RB#0-0RB#0   | 22.88 | 10.05 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20595-20634 | 25RB#0-15RB#0 | 23.14 | 10.31 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20425-20464 | 1RB#0-0RB#0   | 22.97 | 10.14 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20425-20464 | 25RB#0-15RB#0 | 23.06 | 10.23 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20510-20549 | 1RB#0-0RB#0   | 22.98 | 10.15 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20510-20549 | 25RB#0-15RB#0 | 22.9  | 10.07 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20595-20634 | 1RB#0-0RB#0   | 23.05 | 10.22 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20595-20634 | 25RB#0-15RB#0 | 23.05 | 10.22 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 64QAM-64QAM   | 20425-20464 | 1RB#0-0RB#0   | 23.19 | 10.36 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 64QAM-64QAM   | 20425-20464 | 25RB#0-15RB#0 | 23.12 | 10.29 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 64QAM-64QAM   | 20510-20549 | 1RB#0-0RB#0   | 23.29 | 10.46 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 64QAM-64QAM   | 20510-20549 | 25RB#0-15RB#0 | 22.99 | 10.16 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 64QAM-64QAM   | 20595-20634 | 1RB#0-0RB#0   | 23.16 | 10.33 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 64QAM-64QAM   | 20595-20634 | 25RB#0-15RB#0 | 23    | 10.17 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 256QAM-256QAM | 20425-20464 | 1RB#0-0RB#0   | 23.08 | 10.25 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 256QAM-256QAM | 20425-20464 | 25RB#0-15RB#0 | 23.06 | 10.23 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 256QAM-256QAM | 20510-20549 | 1RB#0-0RB#0   | 22.99 | 10.16 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 256QAM-256QAM | 20510-20549 | 25RB#0-15RB#0 | 23.01 | 10.18 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 256QAM-256QAM | 20595-20634 | 1RB#0-0RB#0   | 23.12 | 10.29 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 256QAM-256QAM | 20595-20634 | 25RB#0-15RB#0 | 23.07 | 10.24 | 38.45 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band | Bandwidth   | Modulation    | Channel     | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|------|-------------|---------------|-------------|------------------|------------|-----------|---------|
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20450-20549 | 50RB#0-50RB#0    | 6.18       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20476-20575 | 50RB#0-50RB#0    | 6.18       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20501-20600 | 50RB#0-50RB#0    | 6.04       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20450-20549 | 50RB#0-50RB#0    | 6.86       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20476-20575 | 50RB#0-50RB#0    | 6.86       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20501-20600 | 50RB#0-50RB#0    | 6.80       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20450-20549 | 50RB#0-50RB#0    | 7.18       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20476-20575 | 50RB#0-50RB#0    | 7.12       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20501-20600 | 50RB#0-50RB#0    | 7.08       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20450-20549 | 50RB#0-50RB#0    | 7.32       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20476-20575 | 50RB#0-50RB#0    | 7.24       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20501-20600 | 50RB#0-50RB#0    | 7.08       | 13        | PASS    |



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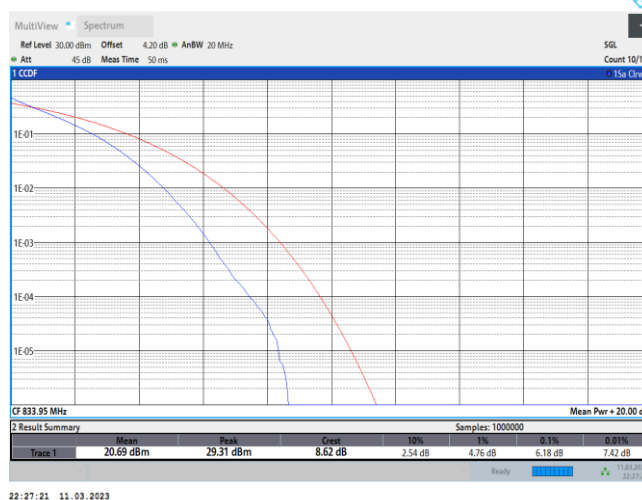
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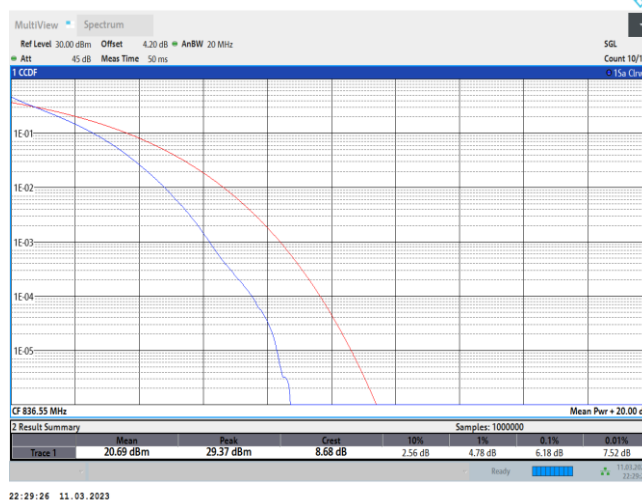
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### Test Graphs

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5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-50RB#0-50RB#0



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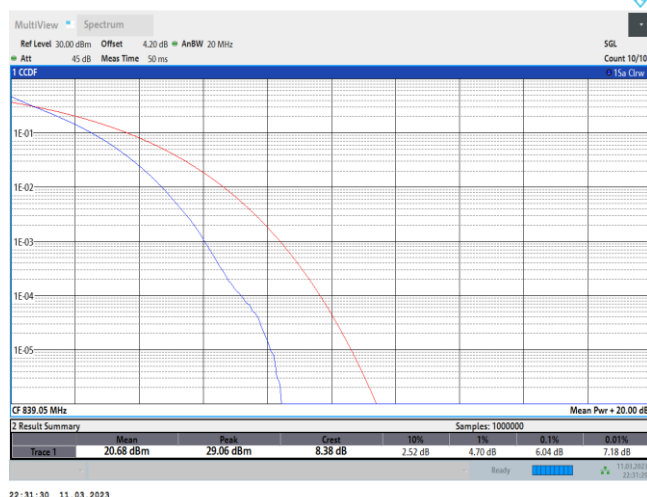
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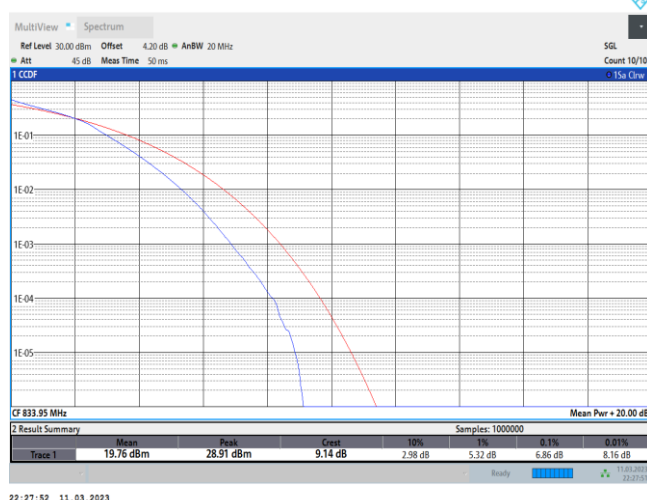
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### 5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-50RB#0-50RB#0



### 5-5-10MHz-10MHz-16QAM-16QAM-20450-20549-50RB#0-50RB#0



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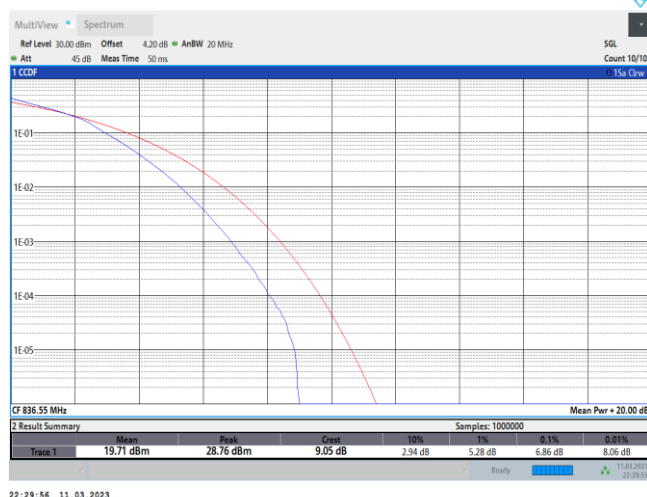
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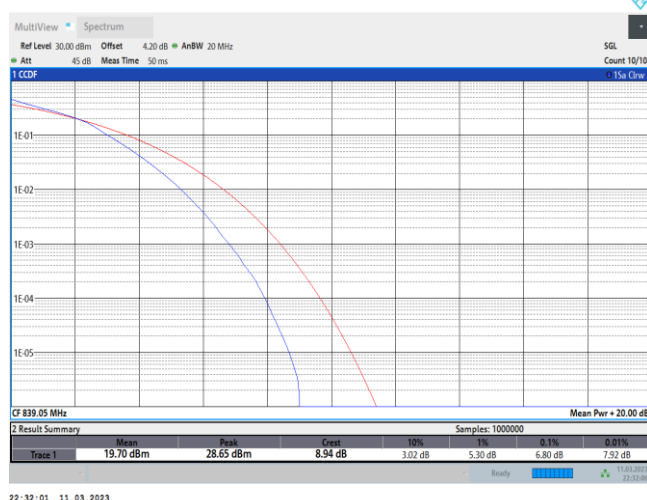
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## 5-5-10MHz-10MHz-16QAM-16QAM-20476-20575-50RB#0-50RB#0



## 5-5-10MHz-10MHz-16QAM-16QAM-20501-20600-50RB#0-50RB#0



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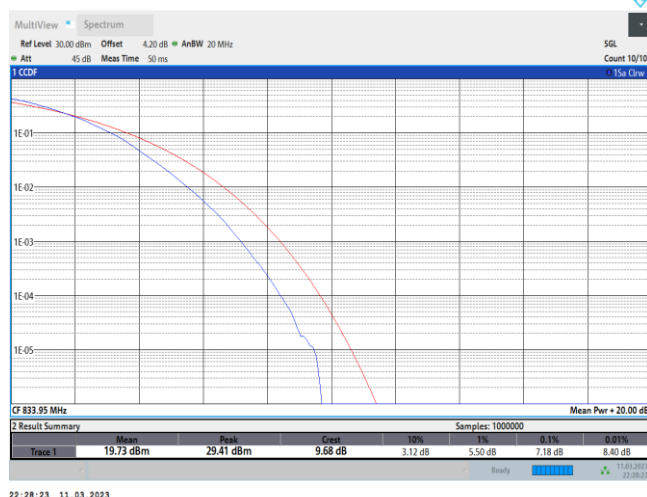
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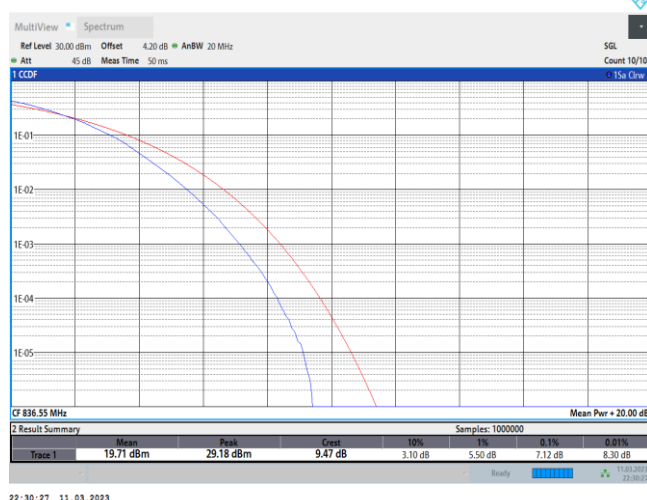
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### 5-5-10MHz-10MHz-64QAM-64QAM-20450-20549-50RB#0-50RB#0



### 5-5-10MHz-10MHz-64QAM-64QAM-20476-20575-50RB#0-50RB#0



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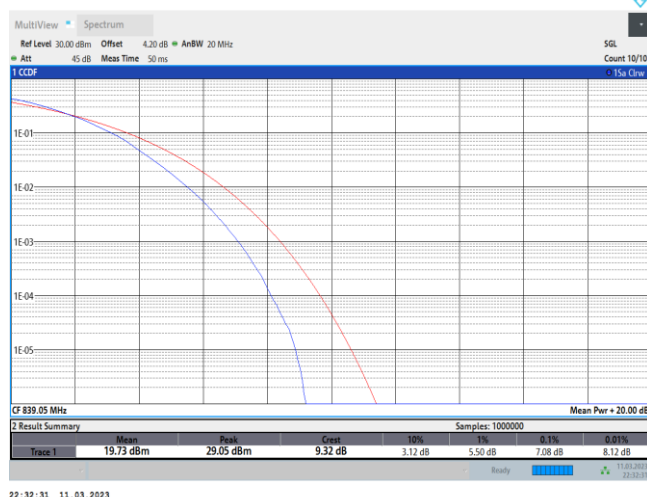
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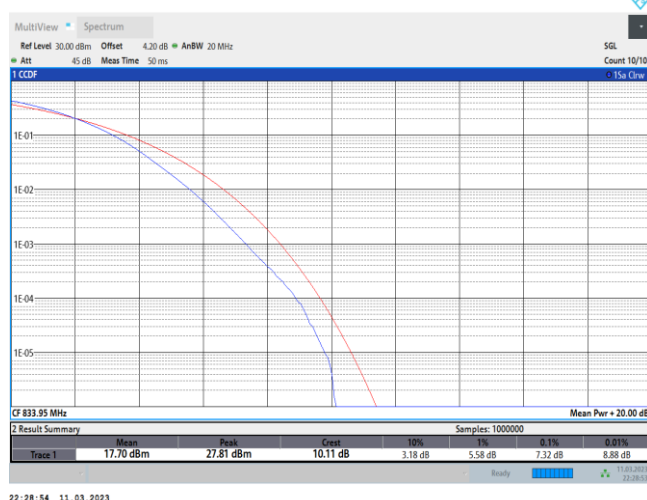
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### 5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



### 5-5-10MHz-10MHz-256QAM-256QAM-20450-20549-50RB#0-50RB#0



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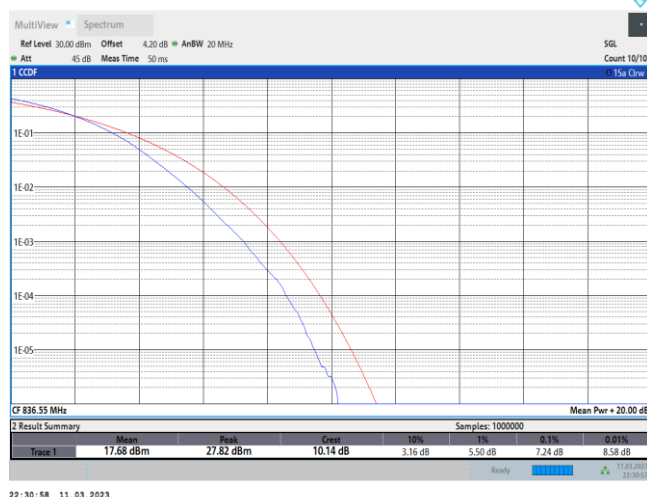
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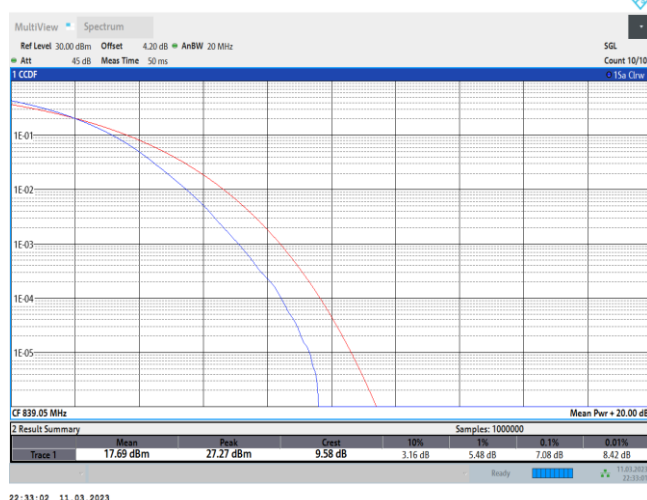
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### 5-5-10MHz-10MHz-256QAM-256QAM-20476-20575-50RB#0-50RB#0



### 5-5-10MHz-10MHz-256QAM-256QAM-20501-20600-50RB#0-50RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band | Bandwidth   | Modulation    | Channel     | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|------|-------------|---------------|-------------|------------------|--------------------------|----------------------|---------|
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20450-20549 | 50RB#0-50RB#0    | 18.834                   | 20.08                | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20476-20575 | 50RB#0-50RB#0    | 18.802                   | 20.20                | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20501-20600 | 50RB#0-50RB#0    | 18.796                   | 20.20                | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20450-20549 | 50RB#0-50RB#0    | 18.794                   | 20.12                | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20476-20575 | 50RB#0-50RB#0    | 18.786                   | 20.00                | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20501-20600 | 50RB#0-50RB#0    | 18.779                   | 20.12                | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20450-20549 | 50RB#0-50RB#0    | 18.783                   | 20.16                | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20476-20575 | 50RB#0-50RB#0    | 18.775                   | 20.12                | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20501-20600 | 50RB#0-50RB#0    | 18.69                    | 20.04                | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20450-20549 | 50RB#0-50RB#0    | 18.781                   | 20.08                | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20476-20575 | 50RB#0-50RB#0    | 18.755                   | 20.12                | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20501-20600 | 50RB#0-50RB#0    | 18.73                    | 20.08                | PASS    |
| 5-5  | 10MHz-5MHz  | QPSK-QPSK     | 20450-20522 | 50RB#0-25RB#0    | 13.863                   | 14.82                | PASS    |
| 5-5  | 10MHz-5MHz  | QPSK-QPSK     | 20500-20572 | 50RB#0-25RB#0    | 13.852                   | 14.76                | PASS    |
| 5-5  | 10MHz-5MHz  | QPSK-QPSK     | 20550-20622 | 50RB#0-25RB#0    | 13.829                   | 14.79                | PASS    |
| 5-5  | 10MHz-5MHz  | 16QAM-16QAM   | 20450-20522 | 50RB#0-25RB#0    | 13.857                   | 14.73                | PASS    |
| 5-5  | 10MHz-5MHz  | 16QAM-16QAM   | 20500-20572 | 50RB#0-25RB#0    | 13.826                   | 14.73                | PASS    |
| 5-5  | 10MHz-5MHz  | 16QAM-16QAM   | 20550-20622 | 50RB#0-25RB#0    | 13.819                   | 14.82                | PASS    |
| 5-5  | 10MHz-5MHz  | 64QAM-64QAM   | 20450-20522 | 50RB#0-25RB#0    | 13.859                   | 14.85                | PASS    |
| 5-5  | 10MHz-5MHz  | 64QAM-64QAM   | 20500-20572 | 50RB#0-25RB#0    | 13.829                   | 14.76                | PASS    |
| 5-5  | 10MHz-5MHz  | 64QAM-64QAM   | 20550-20622 | 50RB#0-25RB#0    | 13.798                   | 14.76                | PASS    |
| 5-5  | 10MHz-5MHz  | 256QAM-256QAM | 20450-20522 | 50RB#0-25RB#0    | 13.877                   | 14.85                | PASS    |
| 5-5  | 10MHz-5MHz  | 256QAM-256QAM | 20500-20572 | 50RB#0-25RB#0    | 13.838                   | 14.79                | PASS    |
| 5-5  | 10MHz-5MHz  | 256QAM-256QAM | 20550-20622 | 50RB#0-25RB#0    | 13.845                   | 14.88                | PASS    |
| 5-5  | 3MHz-5MHz   | QPSK-QPSK     | 20416-20455 | 15RB#0-25RB#0    | 7.447                    | 7.95                 | PASS    |
| 5-5  | 3MHz-5MHz   | QPSK-QPSK     | 20501-20540 | 15RB#0-25RB#0    | 7.455                    | 7.94                 | PASS    |
| 5-5  | 3MHz-5MHz   | QPSK-QPSK     | 20586-20625 | 15RB#0-25RB#0    | 7.451                    | 7.94                 | PASS    |
| 5-5  | 3MHz-5MHz   | 16QAM-16QAM   | 20416-20455 | 15RB#0-25RB#0    | 7.447                    | 7.94                 | PASS    |
| 5-5  | 3MHz-5MHz   | 16QAM-16QAM   | 20501-20540 | 15RB#0-25RB#0    | 7.457                    | 7.95                 | PASS    |



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|     |            |               |             |               |        |       |      |
|-----|------------|---------------|-------------|---------------|--------|-------|------|
| 5-5 | 3MHz-5MHz  | 16QAM-16QAM   | 20586-20625 | 15RB#0-25RB#0 | 7.439  | 7.92  | PASS |
| 5-5 | 3MHz-5MHz  | 64QAM-64QAM   | 20416-20455 | 15RB#0-25RB#0 | 7.431  | 7.95  | PASS |
| 5-5 | 3MHz-5MHz  | 64QAM-64QAM   | 20501-20540 | 15RB#0-25RB#0 | 7.455  | 8.00  | PASS |
| 5-5 | 3MHz-5MHz  | 64QAM-64QAM   | 20586-20625 | 15RB#0-25RB#0 | 7.439  | 7.97  | PASS |
| 5-5 | 3MHz-5MHz  | 256QAM-256QAM | 20416-20455 | 15RB#0-25RB#0 | 7.448  | 7.97  | PASS |
| 5-5 | 3MHz-5MHz  | 256QAM-256QAM | 20501-20540 | 15RB#0-25RB#0 | 7.479  | 7.97  | PASS |
| 5-5 | 3MHz-5MHz  | 256QAM-256QAM | 20586-20625 | 15RB#0-25RB#0 | 7.467  | 7.95  | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20428-20500 | 25RB#0-50RB#0 | 13.841 | 14.79 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20478-20550 | 25RB#0-50RB#0 | 13.803 | 14.79 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20528-20600 | 25RB#0-50RB#0 | 13.81  | 14.76 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20428-20500 | 25RB#0-50RB#0 | 13.816 | 14.64 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20478-20550 | 25RB#0-50RB#0 | 13.794 | 14.58 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20528-20600 | 25RB#0-50RB#0 | 13.81  | 14.64 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20428-20500 | 25RB#0-50RB#0 | 13.847 | 14.73 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20478-20550 | 25RB#0-50RB#0 | 13.815 | 14.70 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20528-20600 | 25RB#0-50RB#0 | 13.808 | 14.61 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20428-20500 | 25RB#0-50RB#0 | 13.832 | 14.70 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20478-20550 | 25RB#0-50RB#0 | 13.813 | 14.73 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20528-20600 | 25RB#0-50RB#0 | 13.781 | 14.64 | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20425-20464 | 25RB#0-15RB#0 | 7.468  | 8.03  | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20510-20549 | 25RB#0-15RB#0 | 7.473  | 8.03  | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20595-20634 | 25RB#0-15RB#0 | 7.468  | 8.00  | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20425-20464 | 25RB#0-15RB#0 | 7.499  | 8.06  | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20510-20549 | 25RB#0-15RB#0 | 7.495  | 8.02  | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20595-20634 | 25RB#0-15RB#0 | 7.476  | 8.06  | PASS |
| 5-5 | 5MHz-3MHz  | 64QAM-64QAM   | 20425-20464 | 25RB#0-15RB#0 | 7.493  | 8.06  | PASS |
| 5-5 | 5MHz-3MHz  | 64QAM-64QAM   | 20510-20549 | 25RB#0-15RB#0 | 7.48   | 8.02  | PASS |
| 5-5 | 5MHz-3MHz  | 64QAM-64QAM   | 20595-20634 | 25RB#0-15RB#0 | 7.481  | 8.02  | PASS |
| 5-5 | 5MHz-3MHz  | 256QAM-256QAM | 20425-20464 | 25RB#0-15RB#0 | 7.486  | 8.05  | PASS |
| 5-5 | 5MHz-3MHz  | 256QAM-256QAM | 20510-20549 | 25RB#0-15RB#0 | 7.478  | 8.06  | PASS |
| 5-5 | 5MHz-3MHz  | 256QAM-256QAM | 20595-20634 | 25RB#0-15RB#0 | 7.48   | 8.05  | PASS |



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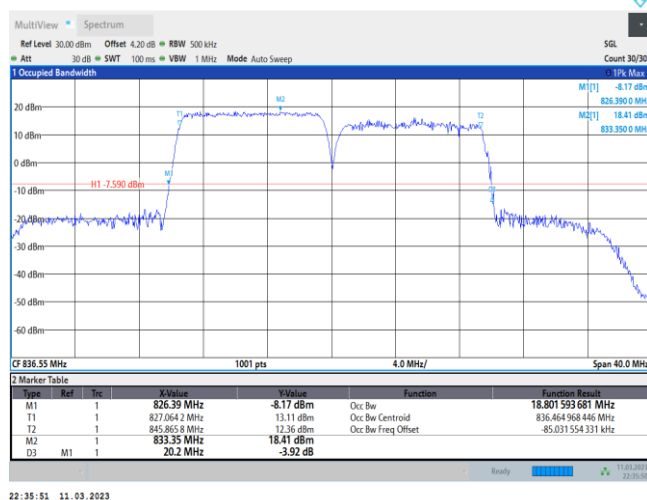
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### Test Graphs

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5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-50RB#0-50RB#0



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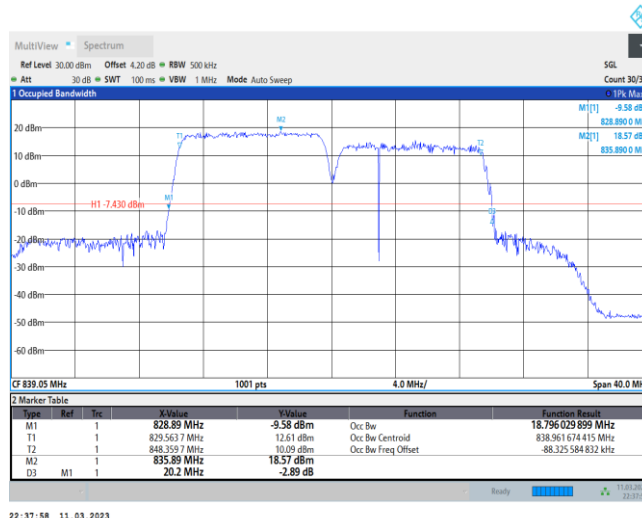
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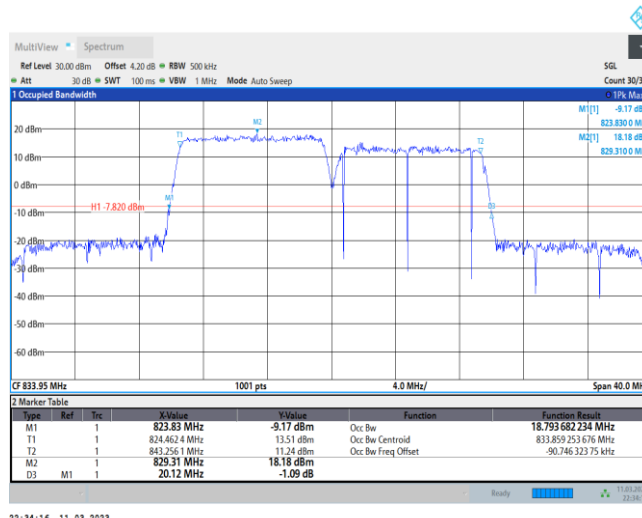
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### 5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-50RB#0-50RB#0



22:37:58 11.03.2023

### 5-5-10MHz-10MHz-16QAM-16QAM-20450-20549-50RB#0-50RB#0



22:34:16 11.03.2023



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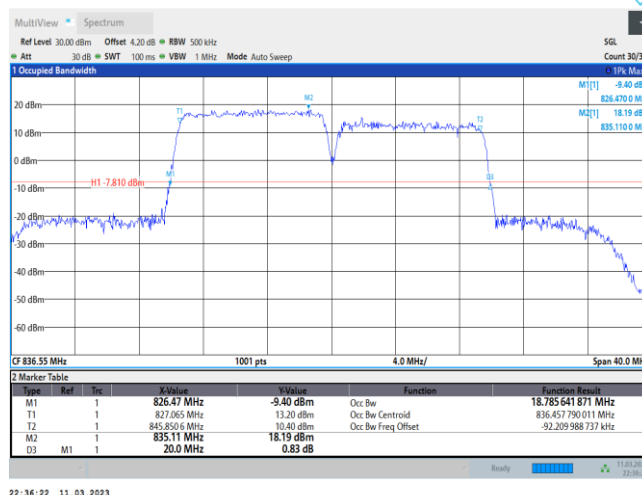
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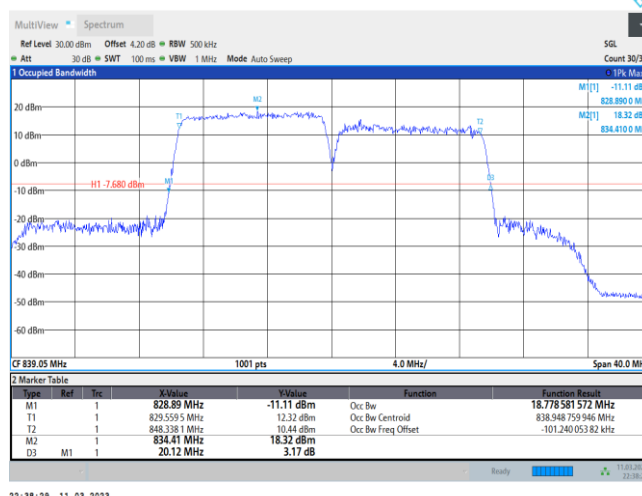
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### 5-5-10MHz-10MHz-16QAM-16QAM-20476-20575-50RB#0-50RB#0



22:36:22 11.03.2023

### 5-5-10MHz-10MHz-16QAM-16QAM-20501-20600-50RB#0-50RB#0



22:38:29 11.03.2023



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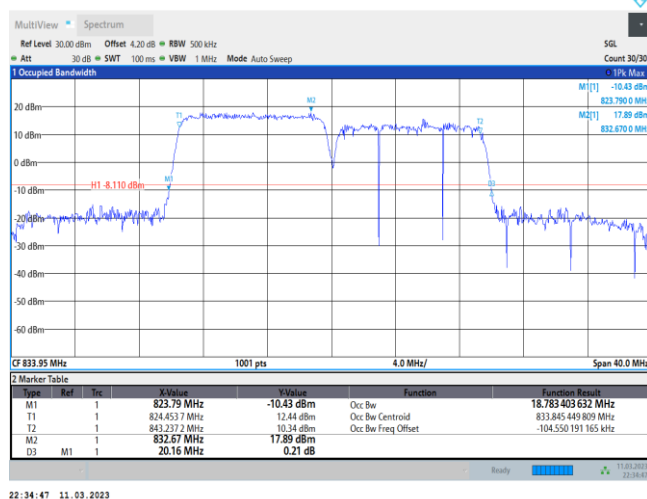
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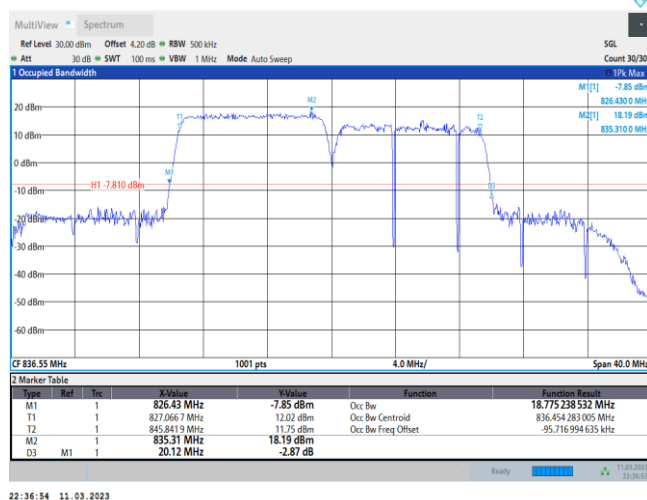
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### 5-5-10MHz-10MHz-64QAM-64QAM-20450-20549-50RB#0-50RB#0



### 5-5-10MHz-10MHz-64QAM-64QAM-20476-20575-50RB#0-50RB#0



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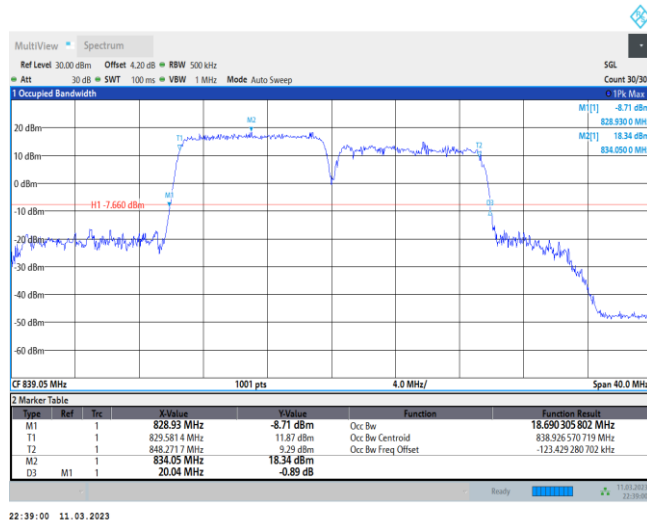
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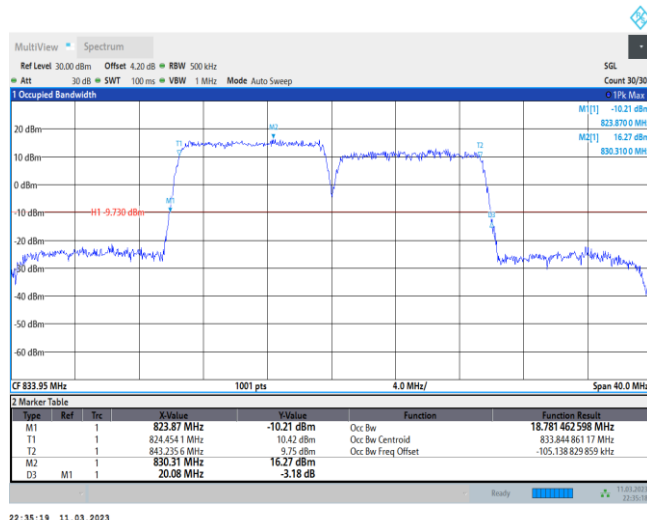
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### 5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



### 5-5-10MHz-10MHz-256QAM-256QAM-20450-20549-50RB#0-50RB#0



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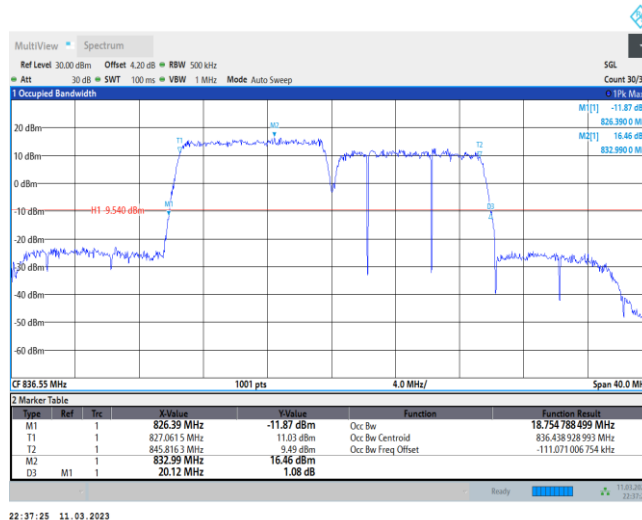
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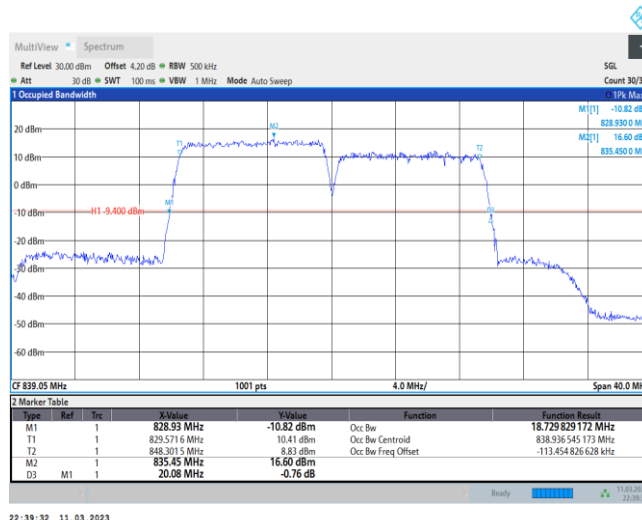
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### 5-5-10MHz-10MHz-256QAM-256QAM-20476-20575-50RB#0-50RB#0



### 5-5-10MHz-10MHz-256QAM-256QAM-20501-20600-50RB#0-50RB#0



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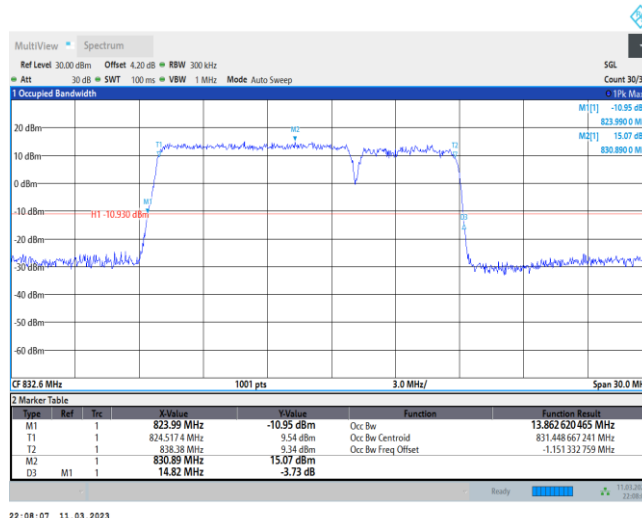
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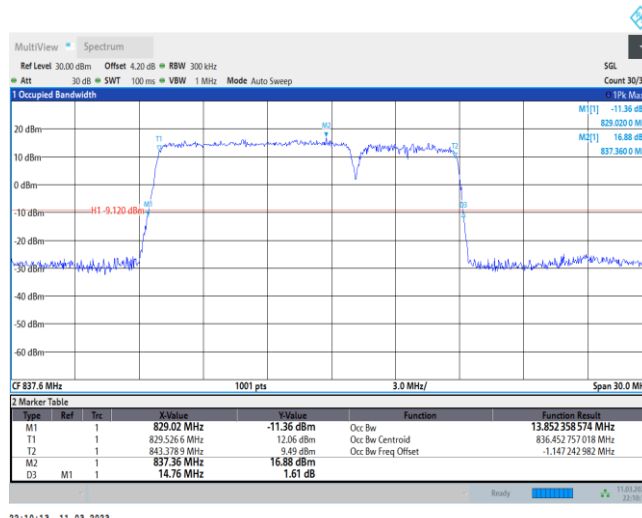
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### 5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-50RB#0-25RB#0



22:08:07 11.03.2023

### 5-5-10MHz-5MHz-QPSK-QPSK-20500-20572-50RB#0-25RB#0



22:10:13 11.03.2023



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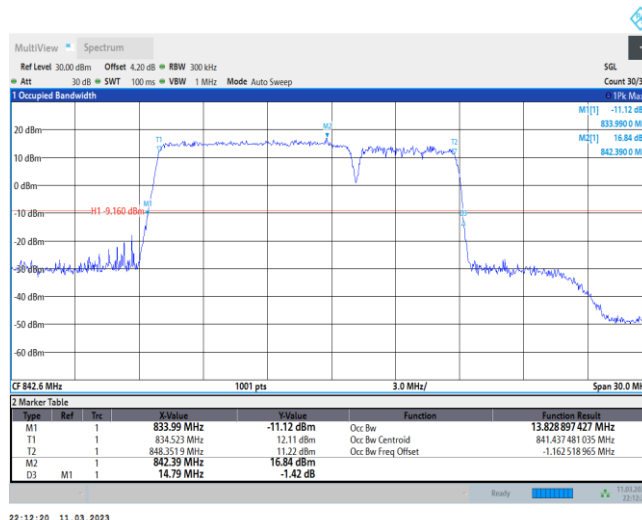
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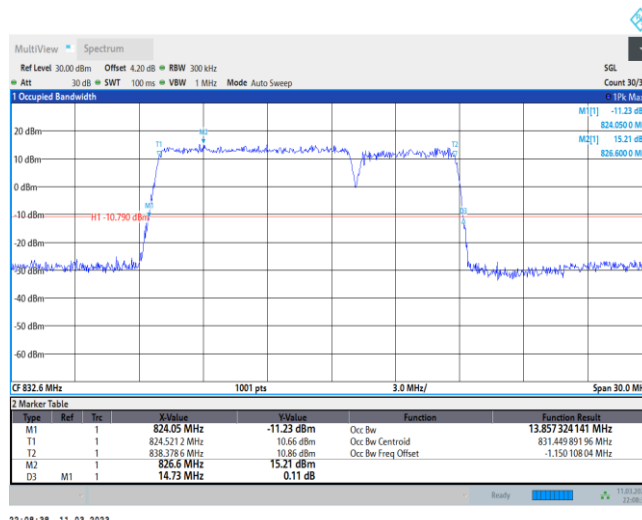
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### 5-5-10MHz-5MHz-QPSK-QPSK-20550-20622-50RB#0-25RB#0



22:12:20 11.03.2023

### 5-5-10MHz-5MHz-16QAM-16QAM-20450-20522-50RB#0-25RB#0



22:08:38 11.03.2023



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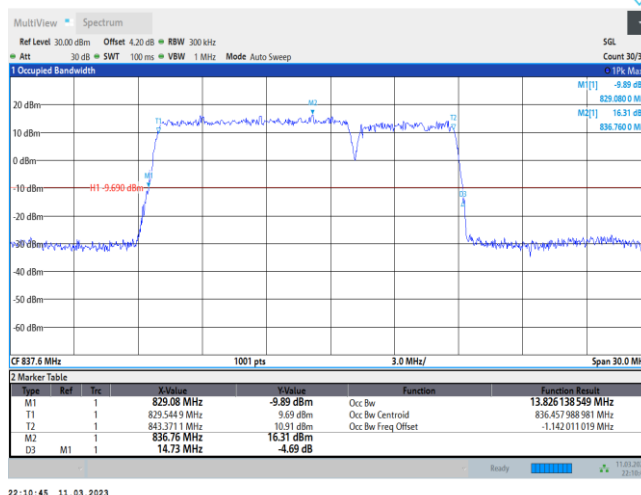
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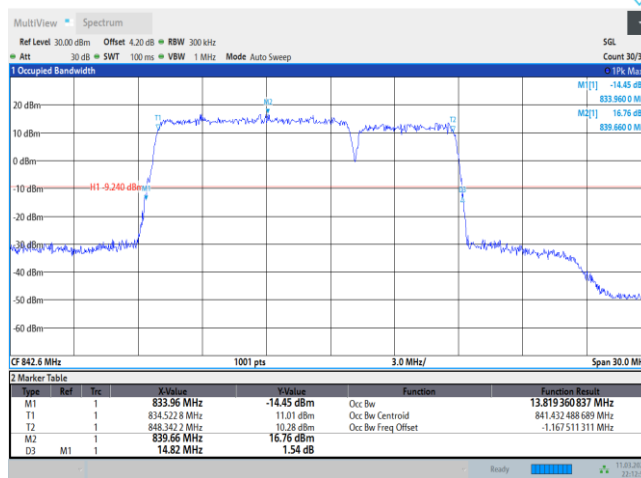
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22:10:45 11.03.2023

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22:12:51 11.03.2023



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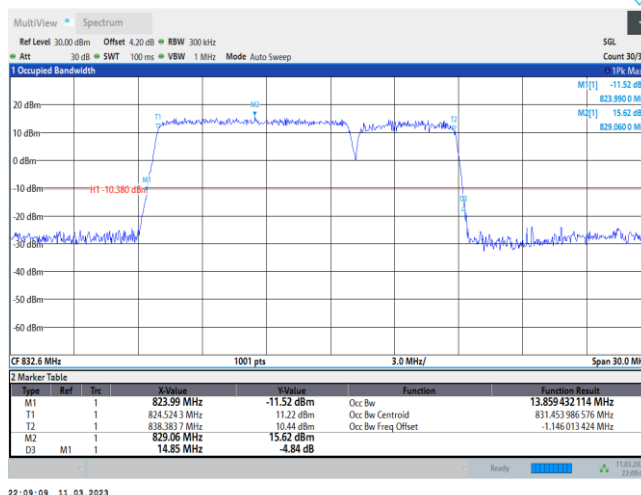
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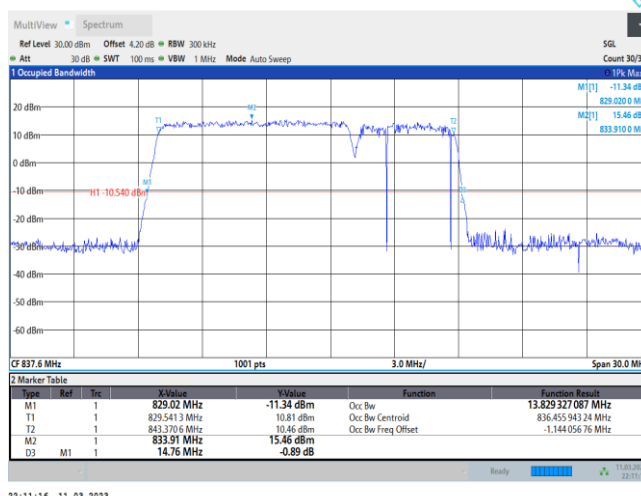
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22:09:09 11.03.2023

### 5-5-10MHz-5MHz-64QAM-64QAM-20500-20572-50RB#0-25RB#0



22:11:16 11.03.2023



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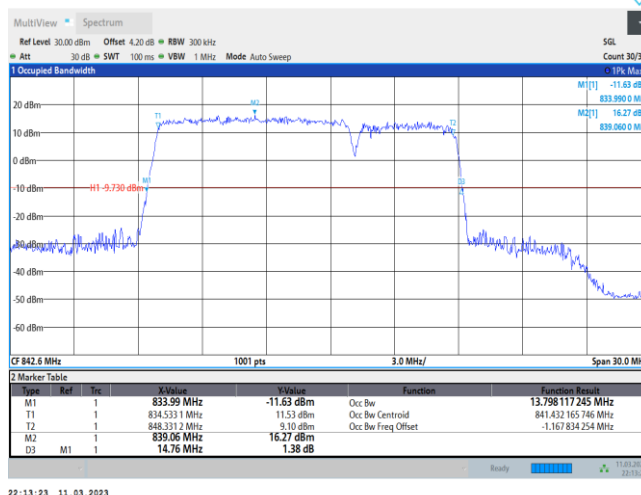
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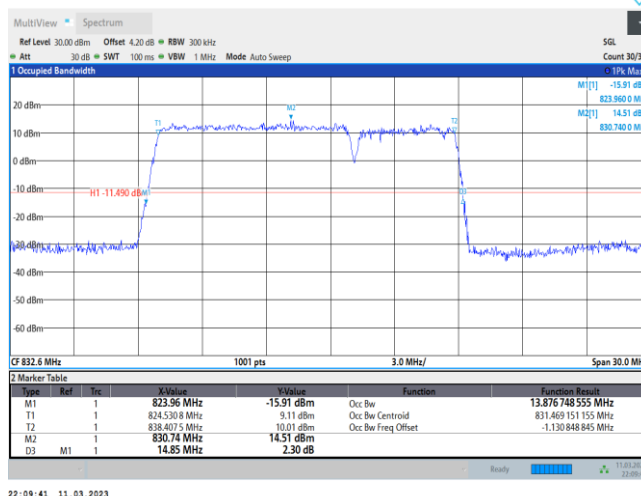
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### 5-5-10MHz-5MHz-64QAM-64QAM-20550-20622-50RB#0-25RB#0



### 5-5-10MHz-5MHz-256QAM-256QAM-20450-20522-50RB#0-25RB#0



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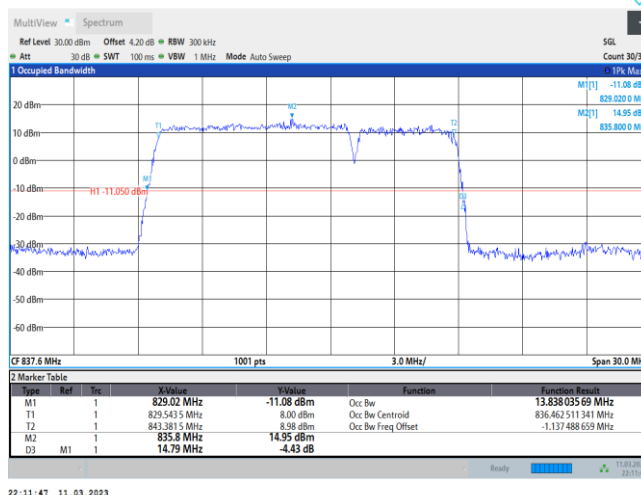
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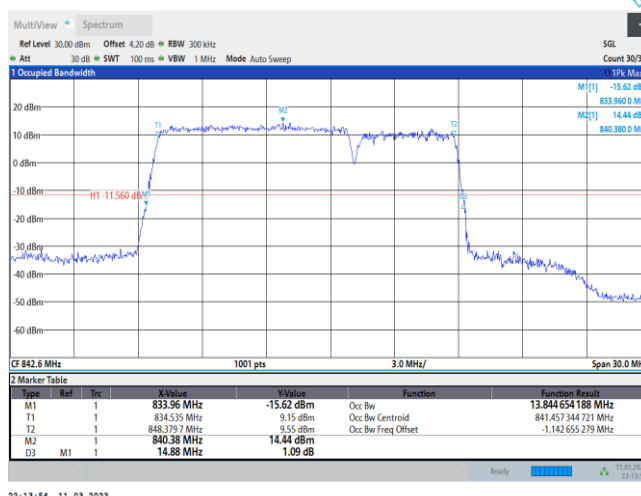
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22:11:47 11.03.2023

### 5-5-10MHz-5MHz-256QAM-256QAM-20550-20622-50RB#0-25RB#0



22:13:54 11.03.2023



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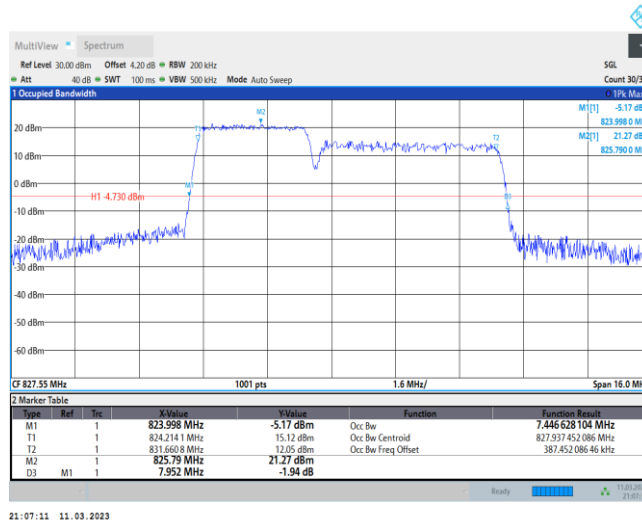
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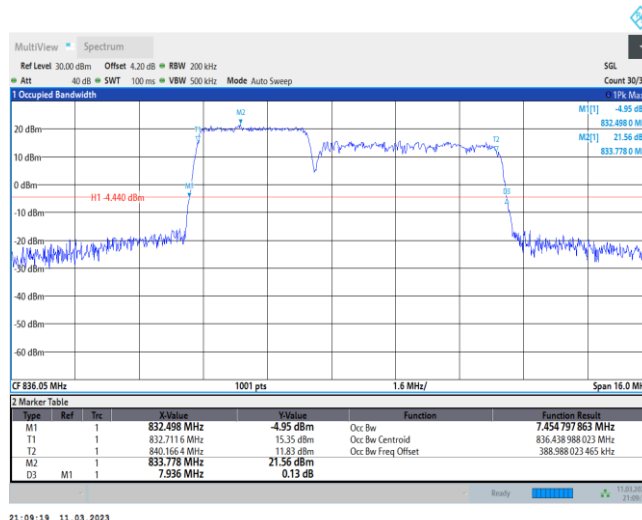
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### 5-5-3MHz-5MHz-QPSK-QPSK-20416-20455-15RB#0-25RB#0



21:07:11 11.03.2023

### 5-5-3MHz-5MHz-QPSK-QPSK-20501-20540-15RB#0-25RB#0



21:09:19 11.03.2023



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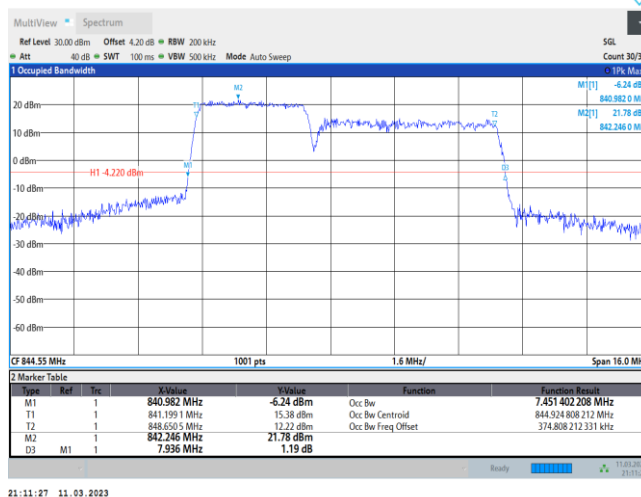
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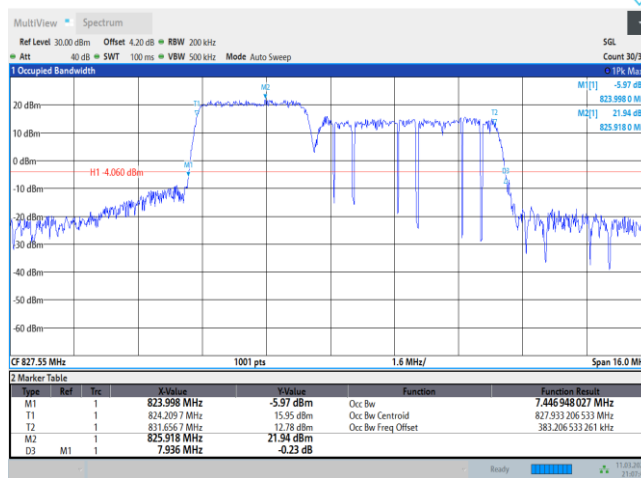
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21:11:27 11.03.2023

### 5-5-3MHz-5MHz-16QAM-16QAM-20416-20455-15RB#0-25RB#0



21:07:42 11.03.2023



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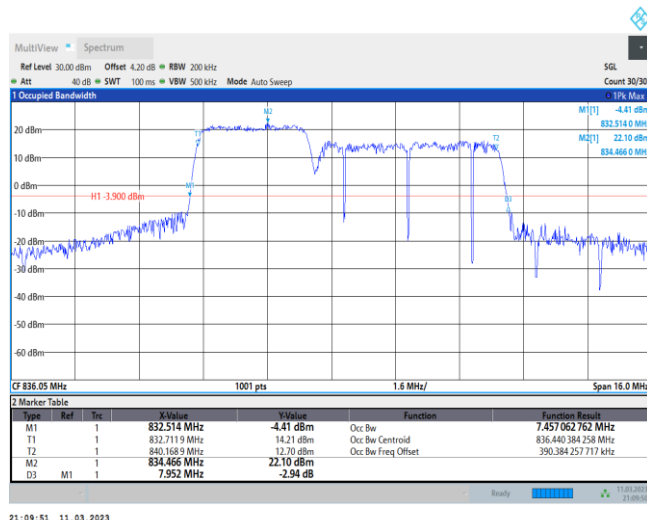
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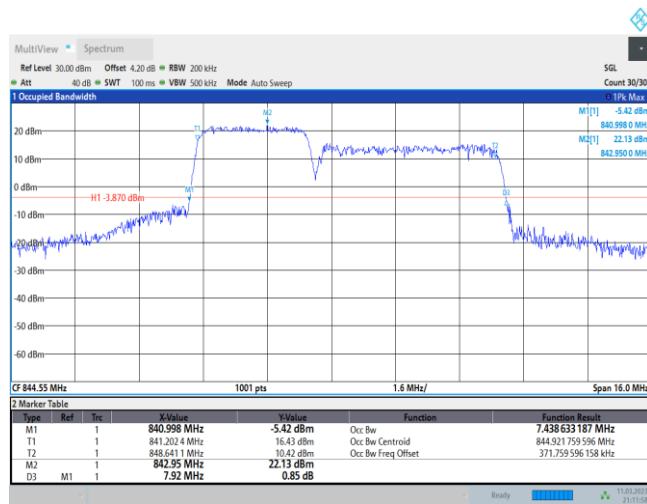
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21:09:51 11.03.2023

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21:11:59 11.03.2023



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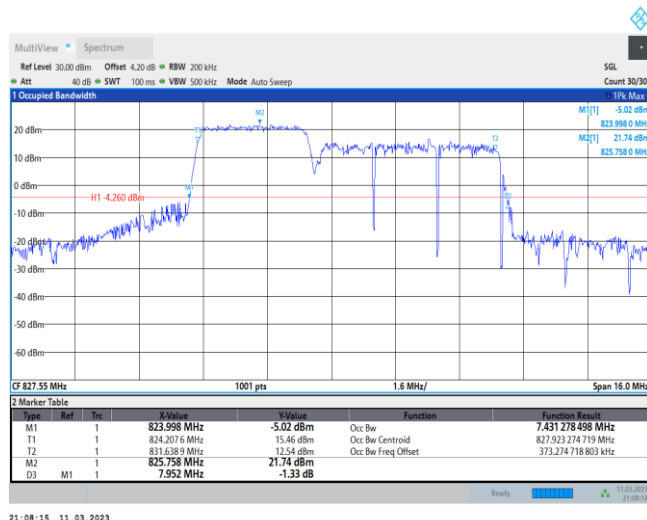
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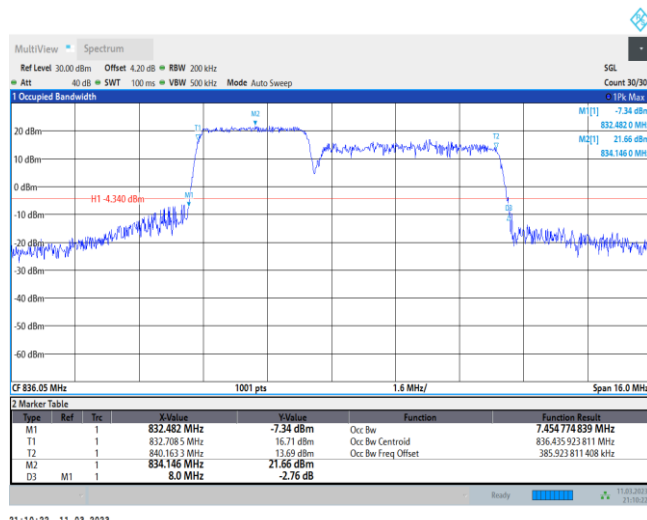
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21:10:22 11.03.2023



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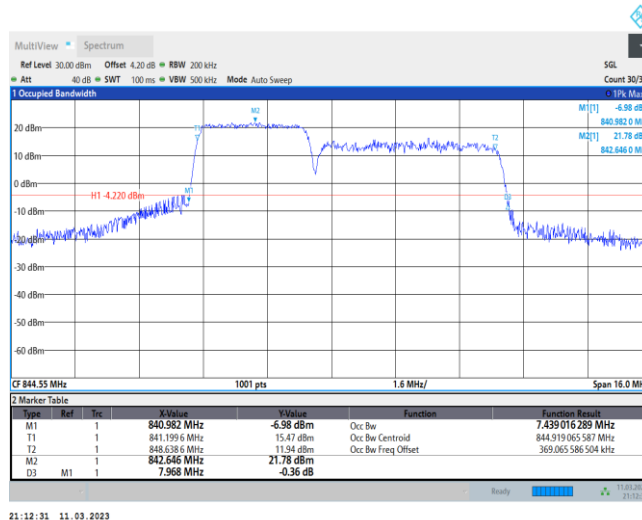
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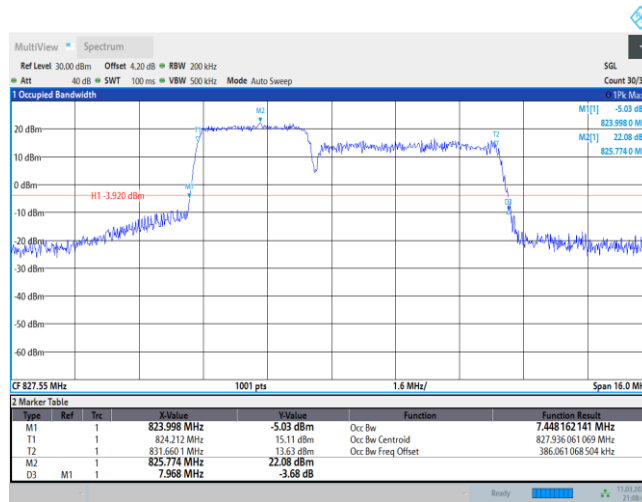
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### 5-5-3MHz-5MHz-256QAM-256QAM-20416-20455-15RB#0-25RB#0



21:08:46 11.03.2023



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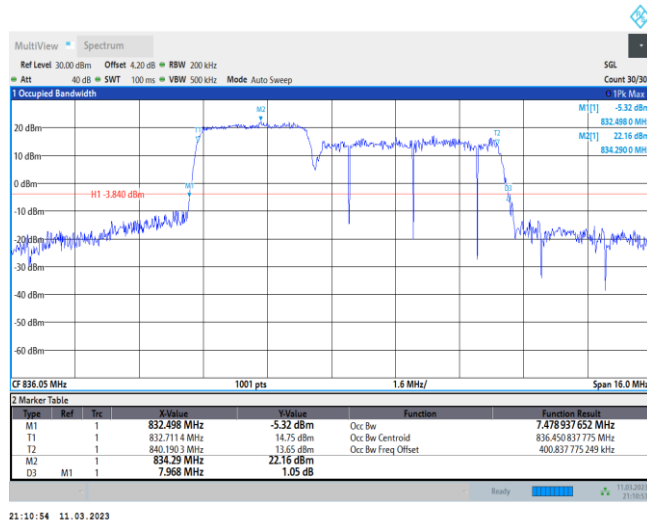
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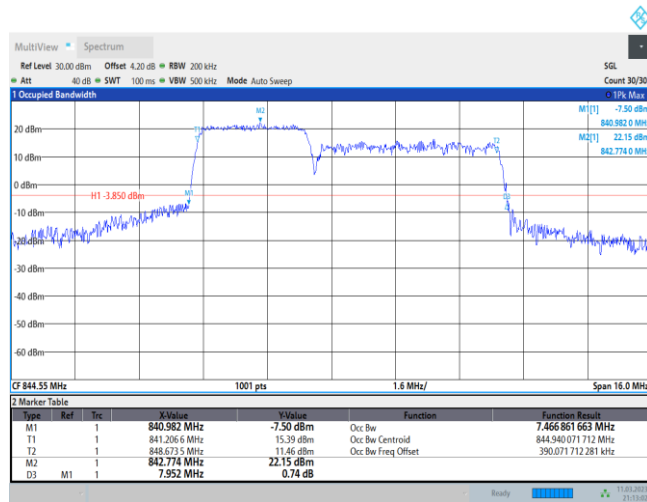
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### 5-5-3MHz-5MHz-256QAM-256QAM-20501-20540-15RB#0-25RB#0



21:10:54 11.03.2023

### 5-5-3MHz-5MHz-256QAM-256QAM-20586-20625-15RB#0-25RB#0



21:13:03 11.03.2023



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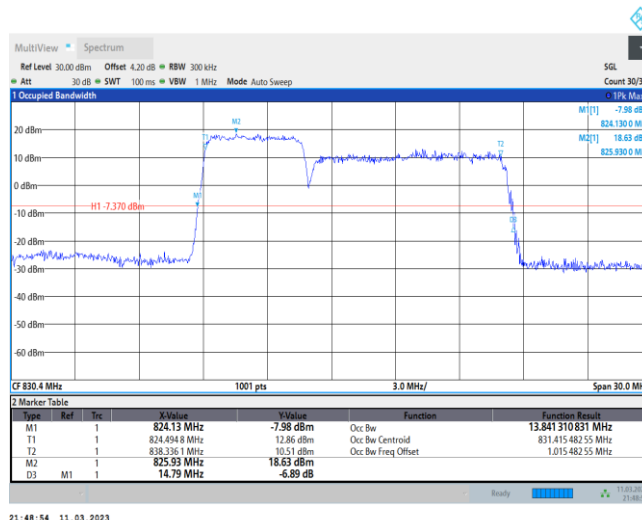
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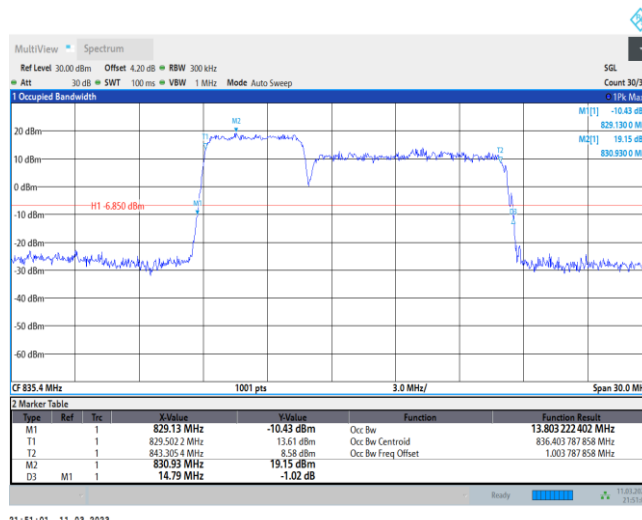
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### 5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-25RB#0-50RB#0



21:48:54 11.03.2023

### 5-5-5MHz-10MHz-QPSK-QPSK-20478-20550-25RB#0-50RB#0



21:51:01 11.03.2023



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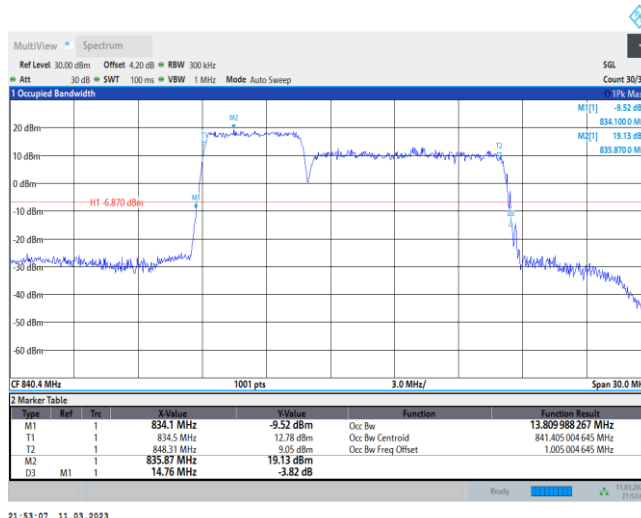
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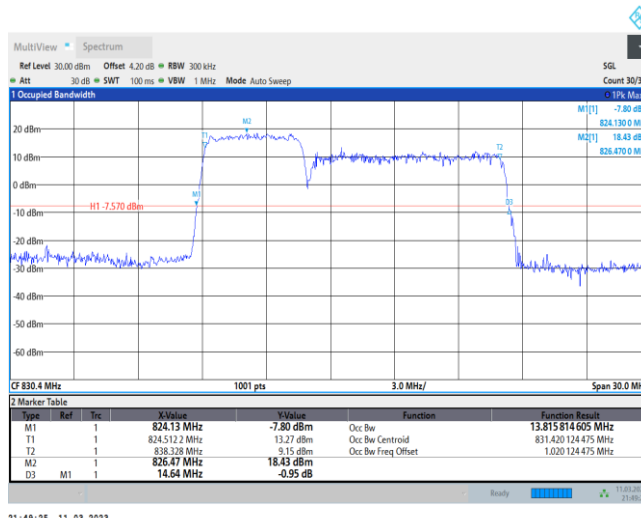
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### 5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-25RB#0-50RB#0



21:53:07 11.03.2023

### 5-5-5MHz-10MHz-16QAM-16QAM-20428-20500-25RB#0-50RB#0



21:49:25 11.03.2023



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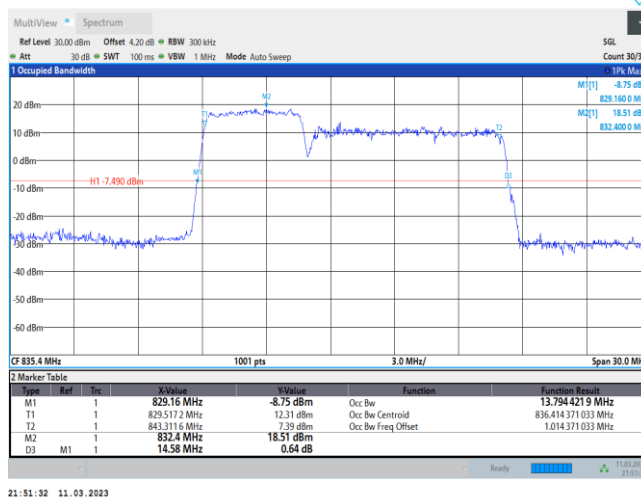
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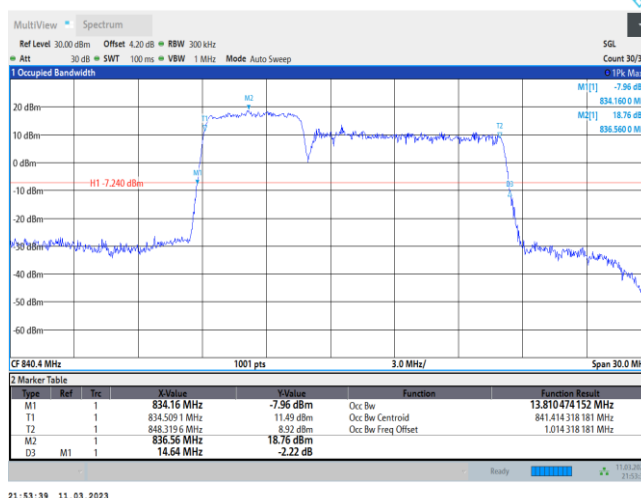
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### 5-5-5MHz-10MHz-16QAM-16QAM-20478-20550-25RB#0-50RB#0



21:51:32 11.03.2023

### 5-5-5MHz-10MHz-16QAM-16QAM-20528-20600-25RB#0-50RB#0



21:53:39 11.03.2023



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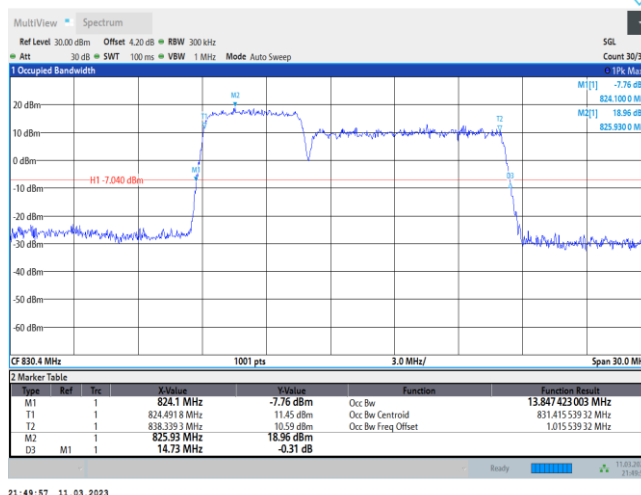
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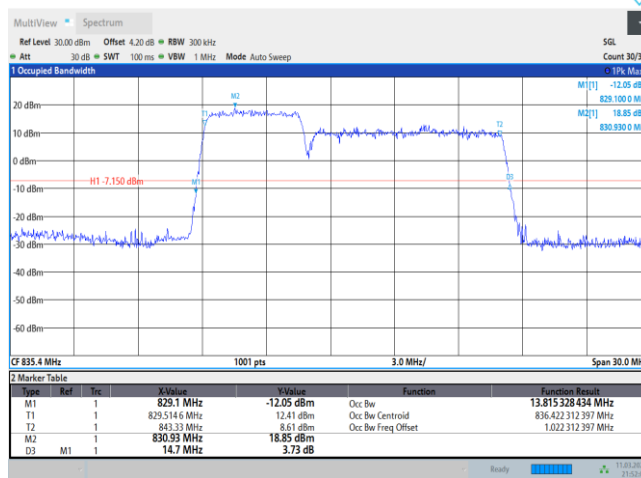
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### 5-5-5MHz-10MHz-64QAM-64QAM-20428-20500-25RB#0-50RB#0



21:49:57 11.03.2023

### 5-5-5MHz-10MHz-64QAM-64QAM-20478-20550-25RB#0-50RB#0



21:52:04 11.03.2023



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