



# Appendix B

## E-UTRA Band 66



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# 1. Effective (Isotropic) Radiated Power

## 1.1. Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Conducted Power(dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|----------------------|------------|-------------|---------|
| Band66 | 1.4MHz    | QPSK       | 131979  | 1RB#0            | 23.08                | 22.28      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 1RB#2            | 23.19                | 22.39      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 1RB#5            | 23.04                | 22.24      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 3RB#0            | 23.15                | 22.35      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 3RB#1            | 23.21                | 22.41      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 3RB#3            | 23.17                | 22.37      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 6RB#0            | 22.17                | 21.37      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 1RB#0            | 23.02                | 22.22      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 1RB#2            | 23.17                | 22.37      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 1RB#5            | 23.01                | 22.21      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 3RB#0            | 23.12                | 22.32      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 3RB#1            | 23.16                | 22.36      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 3RB#3            | 23.12                | 22.32      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 6RB#0            | 22.12                | 21.32      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 1RB#0            | 23.36                | 22.56      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 1RB#2            | 23.51                | 22.71      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 1RB#5            | 23.36                | 22.56      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 3RB#0            | 23.47                | 22.67      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 3RB#1            | 23.54                | 22.74      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 3RB#3            | 23.49                | 22.69      | 30.00       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 6RB#0            | 22.52                | 21.72      | 30.00       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 1RB#0            | 22.34                | 21.54      | 30.00       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 1RB#2            | 22.49                | 21.69      | 30.00       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 1RB#5            | 22.27                | 21.47      | 30.00       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 3RB#0            | 22.27                | 21.47      | 30.00       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 3RB#1            | 22.29                | 21.49      | 30.00       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 3RB#3            | 22.18                | 21.38      | 30.00       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 6RB#0            | 21.26                | 20.46      | 30.00       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 1RB#0            | 22.34                | 21.54      | 30.00       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 1RB#2            | 22.35                | 21.55      | 30.00       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 1RB#5            | 22.20                | 21.40      | 30.00       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 3RB#0            | 22.24                | 21.44      | 30.00       | PASS    |



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|        |        |       |        |        |       |       |       |      |
|--------|--------|-------|--------|--------|-------|-------|-------|------|
| Band66 | 1.4MHz | 16QAM | 132322 | 3RB#1  | 22.28 | 21.48 | 30.00 | PASS |
| Band66 | 1.4MHz | 16QAM | 132322 | 3RB#3  | 22.21 | 21.41 | 30.00 | PASS |
| Band66 | 1.4MHz | 16QAM | 132322 | 6RB#0  | 21.22 | 20.42 | 30.00 | PASS |
| Band66 | 1.4MHz | 16QAM | 132665 | 1RB#0  | 22.64 | 21.84 | 30.00 | PASS |
| Band66 | 1.4MHz | 16QAM | 132665 | 1RB#2  | 22.69 | 21.89 | 30.00 | PASS |
| Band66 | 1.4MHz | 16QAM | 132665 | 1RB#5  | 22.66 | 21.86 | 30.00 | PASS |
| Band66 | 1.4MHz | 16QAM | 132665 | 3RB#0  | 22.55 | 21.75 | 30.00 | PASS |
| Band66 | 1.4MHz | 16QAM | 132665 | 3RB#1  | 22.58 | 21.78 | 30.00 | PASS |
| Band66 | 1.4MHz | 16QAM | 132665 | 3RB#3  | 22.57 | 21.77 | 30.00 | PASS |
| Band66 | 1.4MHz | 16QAM | 132665 | 6RB#0  | 21.59 | 20.79 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 131987 | 1RB#0  | 23.08 | 22.28 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 131987 | 1RB#8  | 23.09 | 22.29 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 131987 | 1RB#14 | 23.05 | 22.25 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 131987 | 8RB#0  | 22.14 | 21.34 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 131987 | 8RB#4  | 22.17 | 21.37 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 131987 | 8RB#7  | 22.11 | 21.31 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 131987 | 15RB#0 | 22.12 | 21.32 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 132322 | 1RB#0  | 23.06 | 22.26 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 132322 | 1RB#8  | 23.06 | 22.26 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 132322 | 1RB#14 | 23.08 | 22.28 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 132322 | 8RB#0  | 22.12 | 21.32 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 132322 | 8RB#4  | 22.14 | 21.34 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 132322 | 8RB#7  | 22.13 | 21.33 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 132322 | 15RB#0 | 22.12 | 21.32 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 132657 | 1RB#0  | 23.38 | 22.58 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 132657 | 1RB#8  | 23.43 | 22.63 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 132657 | 1RB#14 | 23.41 | 22.61 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 132657 | 8RB#0  | 22.49 | 21.69 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 132657 | 8RB#4  | 22.50 | 21.70 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 132657 | 8RB#7  | 22.46 | 21.66 | 30.00 | PASS |
| Band66 | 3MHz   | QPSK  | 132657 | 15RB#0 | 22.49 | 21.69 | 30.00 | PASS |
| Band66 | 3MHz   | 16QAM | 131987 | 1RB#0  | 22.29 | 21.49 | 30.00 | PASS |
| Band66 | 3MHz   | 16QAM | 131987 | 1RB#8  | 22.42 | 21.62 | 30.00 | PASS |
| Band66 | 3MHz   | 16QAM | 131987 | 1RB#14 | 22.35 | 21.55 | 30.00 | PASS |
| Band66 | 3MHz   | 16QAM | 131987 | 8RB#0  | 21.24 | 20.44 | 30.00 | PASS |
| Band66 | 3MHz   | 16QAM | 131987 | 8RB#4  | 21.26 | 20.46 | 30.00 | PASS |
| Band66 | 3MHz   | 16QAM | 131987 | 8RB#7  | 21.25 | 20.45 | 30.00 | PASS |
| Band66 | 3MHz   | 16QAM | 131987 | 15RB#0 | 21.12 | 20.32 | 30.00 | PASS |



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|        |      |       |        |         |       |       |       |      |
|--------|------|-------|--------|---------|-------|-------|-------|------|
| Band66 | 3MHz | 16QAM | 132322 | 1RB#0   | 22.40 | 21.60 | 30.00 | PASS |
| Band66 | 3MHz | 16QAM | 132322 | 1RB#8   | 22.41 | 21.61 | 30.00 | PASS |
| Band66 | 3MHz | 16QAM | 132322 | 1RB#14  | 22.40 | 21.60 | 30.00 | PASS |
| Band66 | 3MHz | 16QAM | 132322 | 8RB#0   | 21.20 | 20.40 | 30.00 | PASS |
| Band66 | 3MHz | 16QAM | 132322 | 8RB#4   | 21.22 | 20.42 | 30.00 | PASS |
| Band66 | 3MHz | 16QAM | 132322 | 8RB#7   | 21.22 | 20.42 | 30.00 | PASS |
| Band66 | 3MHz | 16QAM | 132322 | 15RB#0  | 21.13 | 20.33 | 30.00 | PASS |
| Band66 | 3MHz | 16QAM | 132657 | 1RB#0   | 22.54 | 21.74 | 30.00 | PASS |
| Band66 | 3MHz | 16QAM | 132657 | 1RB#8   | 22.62 | 21.82 | 30.00 | PASS |
| Band66 | 3MHz | 16QAM | 132657 | 1RB#14  | 22.60 | 21.80 | 30.00 | PASS |
| Band66 | 3MHz | 16QAM | 132657 | 8RB#0   | 21.56 | 20.76 | 30.00 | PASS |
| Band66 | 3MHz | 16QAM | 132657 | 8RB#4   | 21.56 | 20.76 | 30.00 | PASS |
| Band66 | 3MHz | 16QAM | 132657 | 8RB#7   | 21.51 | 20.71 | 30.00 | PASS |
| Band66 | 3MHz | 16QAM | 132657 | 15RB#0  | 21.47 | 20.67 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 131997 | 1RB#0   | 23.71 | 22.91 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 131997 | 1RB#12  | 23.87 | 23.07 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 131997 | 1RB#24  | 23.84 | 23.04 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 131997 | 12RB#0  | 22.63 | 21.83 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 131997 | 12RB#6  | 22.82 | 22.02 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 131997 | 12RB#13 | 22.74 | 21.94 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 131997 | 25RB#0  | 22.54 | 21.74 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 132322 | 1RB#0   | 23.73 | 22.93 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 132322 | 1RB#12  | 23.79 | 22.99 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 132322 | 1RB#24  | 23.83 | 23.03 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 132322 | 12RB#0  | 22.81 | 22.01 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 132322 | 12RB#6  | 22.73 | 21.93 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 132322 | 12RB#13 | 22.64 | 21.84 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 132322 | 25RB#0  | 22.57 | 21.77 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 132647 | 1RB#0   | 23.75 | 22.95 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 132647 | 1RB#12  | 23.74 | 22.94 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 132647 | 1RB#24  | 23.70 | 22.90 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 132647 | 12RB#0  | 22.58 | 21.78 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 132647 | 12RB#6  | 22.79 | 21.99 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 132647 | 12RB#13 | 22.73 | 21.93 | 30.00 | PASS |
| Band66 | 5MHz | QPSK  | 132647 | 25RB#0  | 22.59 | 21.79 | 30.00 | PASS |
| Band66 | 5MHz | 16QAM | 131997 | 1RB#0   | 22.71 | 21.91 | 30.00 | PASS |
| Band66 | 5MHz | 16QAM | 131997 | 1RB#12  | 22.70 | 21.90 | 30.00 | PASS |
| Band66 | 5MHz | 16QAM | 131997 | 1RB#24  | 22.71 | 21.91 | 30.00 | PASS |



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|        |       |       |        |         |       |       |       |      |
|--------|-------|-------|--------|---------|-------|-------|-------|------|
| Band66 | 5MHz  | 16QAM | 131997 | 12RB#0  | 21.78 | 20.98 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 131997 | 12RB#6  | 21.77 | 20.97 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 131997 | 12RB#13 | 21.56 | 20.76 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 131997 | 25RB#0  | 21.89 | 21.09 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 132322 | 1RB#0   | 22.71 | 21.91 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 132322 | 1RB#12  | 22.56 | 21.76 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 132322 | 1RB#24  | 22.63 | 21.83 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 132322 | 12RB#0  | 21.63 | 20.83 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 132322 | 12RB#6  | 21.61 | 20.81 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 132322 | 12RB#13 | 21.75 | 20.95 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 132322 | 25RB#0  | 21.65 | 20.85 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 132647 | 1RB#0   | 22.64 | 21.84 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 132647 | 1RB#12  | 22.86 | 22.06 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 132647 | 1RB#24  | 22.68 | 21.88 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 132647 | 12RB#0  | 21.51 | 20.71 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 132647 | 12RB#6  | 21.83 | 21.03 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 132647 | 12RB#13 | 21.62 | 20.82 | 30.00 | PASS |
| Band66 | 5MHz  | 16QAM | 132647 | 25RB#0  | 21.61 | 20.81 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132022 | 1RB#0   | 23.61 | 22.81 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132022 | 1RB#24  | 23.52 | 22.72 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132022 | 1RB#49  | 23.62 | 22.82 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132022 | 25RB#0  | 22.60 | 21.80 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132022 | 25RB#12 | 22.53 | 21.73 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132022 | 25RB#25 | 22.70 | 21.90 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132022 | 50RB#0  | 22.66 | 21.86 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132322 | 1RB#0   | 23.69 | 22.89 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132322 | 1RB#24  | 23.75 | 22.95 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132322 | 1RB#49  | 23.64 | 22.84 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132322 | 25RB#0  | 22.51 | 21.71 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132322 | 25RB#12 | 22.79 | 21.99 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132322 | 25RB#25 | 22.81 | 22.01 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132322 | 50RB#0  | 22.59 | 21.79 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132622 | 1RB#0   | 23.80 | 23.00 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132622 | 1RB#24  | 23.90 | 23.10 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132622 | 1RB#49  | 23.74 | 22.94 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132622 | 25RB#0  | 22.87 | 22.07 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132622 | 25RB#12 | 22.50 | 21.70 | 30.00 | PASS |
| Band66 | 10MHz | QPSK  | 132622 | 25RB#25 | 22.50 | 21.70 | 30.00 | PASS |



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|        |       |       |        |         |       |       |       |      |
|--------|-------|-------|--------|---------|-------|-------|-------|------|
| Band66 | 10MHz | QPSK  | 132622 | 50RB#0  | 22.52 | 21.72 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132022 | 1RB#0   | 22.54 | 21.74 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132022 | 1RB#24  | 22.79 | 21.99 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132022 | 1RB#49  | 22.69 | 21.89 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132022 | 25RB#0  | 21.56 | 20.76 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132022 | 25RB#12 | 21.84 | 21.04 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132022 | 25RB#25 | 21.57 | 20.77 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132022 | 50RB#0  | 21.73 | 20.93 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132322 | 1RB#0   | 22.62 | 21.82 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132322 | 1RB#24  | 22.66 | 21.86 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132322 | 1RB#49  | 22.52 | 21.72 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132322 | 25RB#0  | 21.83 | 21.03 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132322 | 25RB#12 | 21.90 | 21.10 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132322 | 25RB#25 | 21.74 | 20.94 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132322 | 50RB#0  | 21.68 | 20.88 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132622 | 1RB#0   | 22.66 | 21.86 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132622 | 1RB#24  | 22.79 | 21.99 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132622 | 1RB#49  | 22.70 | 21.90 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132622 | 25RB#0  | 21.72 | 20.92 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132622 | 25RB#12 | 21.69 | 20.89 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132622 | 25RB#25 | 21.73 | 20.93 | 30.00 | PASS |
| Band66 | 10MHz | 16QAM | 132622 | 50RB#0  | 21.71 | 20.91 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132047 | 1RB#0   | 23.59 | 22.79 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132047 | 1RB#38  | 23.78 | 22.98 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132047 | 1RB#74  | 23.60 | 22.80 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132047 | 36RB#0  | 22.71 | 21.91 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132047 | 36RB#18 | 22.73 | 21.93 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132047 | 36RB#39 | 22.80 | 22.00 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132047 | 75RB#0  | 22.89 | 22.09 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132322 | 1RB#0   | 23.89 | 23.09 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132322 | 1RB#38  | 23.73 | 22.93 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132322 | 1RB#74  | 23.51 | 22.71 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132322 | 36RB#0  | 22.78 | 21.98 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132322 | 36RB#18 | 22.67 | 21.87 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132322 | 36RB#39 | 22.78 | 21.98 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132322 | 75RB#0  | 22.77 | 21.97 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132597 | 1RB#0   | 23.62 | 22.82 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132597 | 1RB#38  | 23.61 | 22.81 | 30.00 | PASS |



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|        |       |       |        |         |       |       |       |      |
|--------|-------|-------|--------|---------|-------|-------|-------|------|
| Band66 | 15MHz | QPSK  | 132597 | 1RB#74  | 23.74 | 22.94 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132597 | 36RB#0  | 22.81 | 22.01 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132597 | 36RB#18 | 22.57 | 21.77 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132597 | 36RB#39 | 22.69 | 21.89 | 30.00 | PASS |
| Band66 | 15MHz | QPSK  | 132597 | 75RB#0  | 22.85 | 22.05 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132047 | 1RB#0   | 22.56 | 21.76 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132047 | 1RB#38  | 22.53 | 21.73 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132047 | 1RB#74  | 22.78 | 21.98 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132047 | 36RB#0  | 21.51 | 20.71 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132047 | 36RB#18 | 21.85 | 21.05 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132047 | 36RB#39 | 21.89 | 21.09 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132047 | 75RB#0  | 21.87 | 21.07 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132322 | 1RB#0   | 22.89 | 22.09 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132322 | 1RB#38  | 22.78 | 21.98 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132322 | 1RB#74  | 22.57 | 21.77 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132322 | 36RB#0  | 21.61 | 20.81 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132322 | 36RB#18 | 21.64 | 20.84 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132322 | 36RB#39 | 21.84 | 21.04 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132322 | 75RB#0  | 21.67 | 20.87 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132597 | 1RB#0   | 22.74 | 21.94 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132597 | 1RB#38  | 22.51 | 21.71 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132597 | 1RB#74  | 22.62 | 21.82 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132597 | 36RB#0  | 21.55 | 20.75 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132597 | 36RB#18 | 21.88 | 21.08 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132597 | 36RB#39 | 21.76 | 20.96 | 30.00 | PASS |
| Band66 | 15MHz | 16QAM | 132597 | 75RB#0  | 21.78 | 20.98 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132072 | 1RB#0   | 23.69 | 22.89 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132072 | 1RB#49  | 23.51 | 22.71 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132072 | 1RB#99  | 23.85 | 23.05 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132072 | 50RB#0  | 22.86 | 22.06 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132072 | 50RB#25 | 22.70 | 21.90 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132072 | 50RB#50 | 22.68 | 21.88 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132072 | 100RB#0 | 22.61 | 21.81 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132322 | 1RB#0   | 23.76 | 22.96 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132322 | 1RB#49  | 23.71 | 22.91 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132322 | 1RB#99  | 23.75 | 22.95 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132322 | 50RB#0  | 22.59 | 21.79 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132322 | 50RB#25 | 22.82 | 22.02 | 30.00 | PASS |



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|        |       |       |        |         |       |       |       |      |
|--------|-------|-------|--------|---------|-------|-------|-------|------|
| Band66 | 20MHz | QPSK  | 132322 | 50RB#50 | 22.59 | 21.79 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132322 | 100RB#0 | 22.85 | 22.05 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132572 | 1RB#0   | 23.61 | 22.81 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132572 | 1RB#49  | 23.78 | 22.98 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132572 | 1RB#99  | 23.89 | 23.09 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132572 | 50RB#0  | 22.81 | 22.01 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132572 | 50RB#25 | 22.59 | 21.79 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132572 | 50RB#50 | 22.61 | 21.81 | 30.00 | PASS |
| Band66 | 20MHz | QPSK  | 132572 | 100RB#0 | 22.72 | 21.92 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 1RB#0   | 22.83 | 22.03 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 1RB#49  | 22.58 | 21.78 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 1RB#99  | 22.82 | 22.02 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 50RB#0  | 21.80 | 21.00 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 50RB#25 | 21.76 | 20.96 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 50RB#50 | 21.67 | 20.87 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 100RB#0 | 21.62 | 20.82 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 1RB#0   | 22.76 | 21.96 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 1RB#49  | 22.66 | 21.86 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 1RB#99  | 22.66 | 21.86 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 50RB#0  | 21.60 | 20.80 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 50RB#25 | 21.87 | 21.07 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 50RB#50 | 21.64 | 20.84 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 100RB#0 | 21.73 | 20.93 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 1RB#0   | 22.54 | 21.74 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 1RB#49  | 22.82 | 22.02 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 1RB#99  | 22.58 | 21.78 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 50RB#0  | 21.71 | 20.91 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 50RB#25 | 21.86 | 21.06 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 50RB#50 | 21.58 | 20.78 | 30.00 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 100RB#0 | 21.81 | 21.01 | 30.00 | PASS |

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



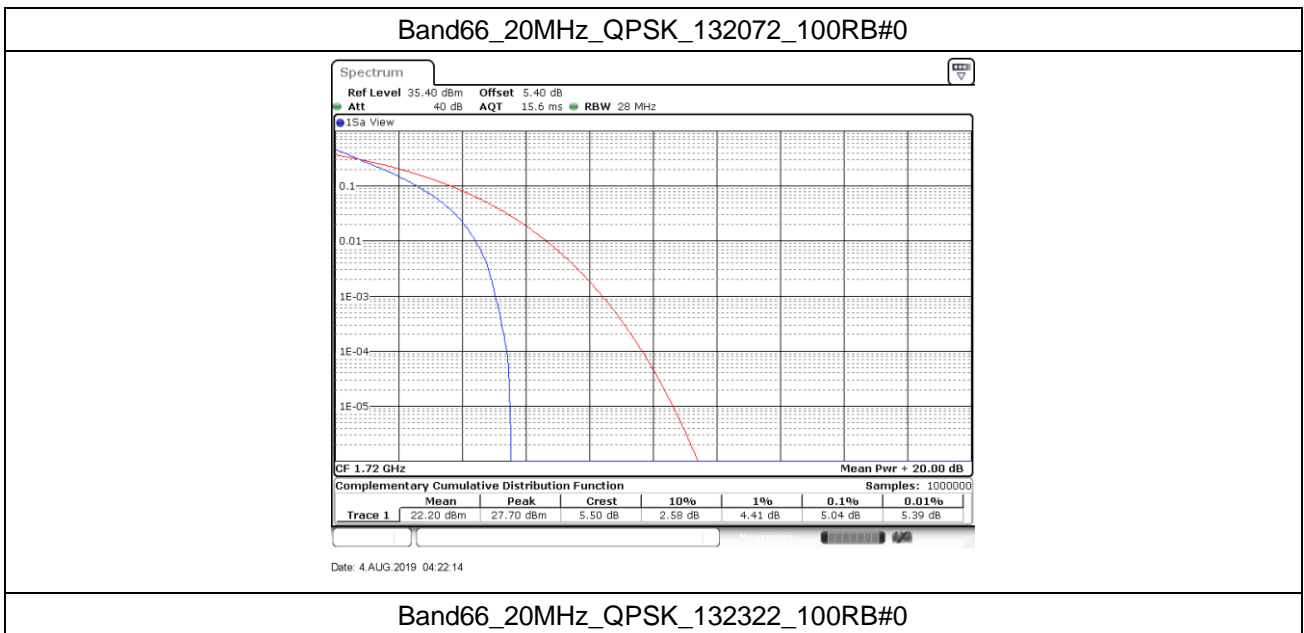
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## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

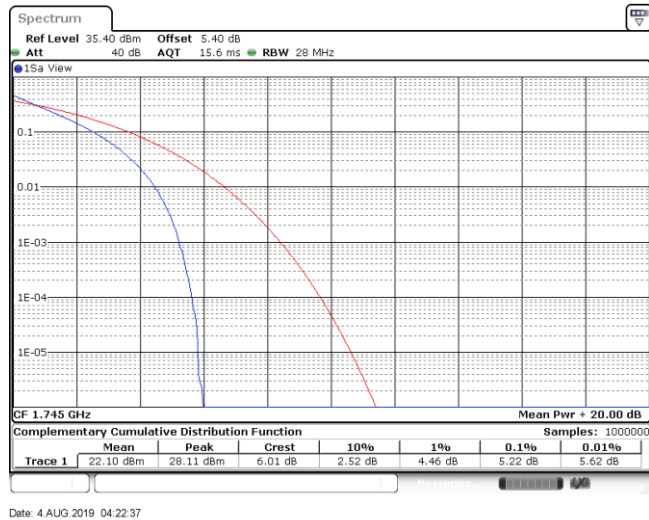
| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band66 | 20MHz     | QPSK       | 132072  | 100RB#0          | 5.04       | 13        | PASS    |
| Band66 | 20MHz     | QPSK       | 132322  | 100RB#0          | 5.22       | 13        | PASS    |
| Band66 | 20MHz     | QPSK       | 132572  | 100RB#0          | 5.13       | 13        | PASS    |
| Band66 | 20MHz     | 16QAM      | 132072  | 100RB#0          | 5.94       | 13        | PASS    |
| Band66 | 20MHz     | 16QAM      | 132322  | 100RB#0          | 6.09       | 13        | PASS    |
| Band66 | 20MHz     | 16QAM      | 132572  | 100RB#0          | 6.00       | 13        | PASS    |

### 2.2. Test Plots



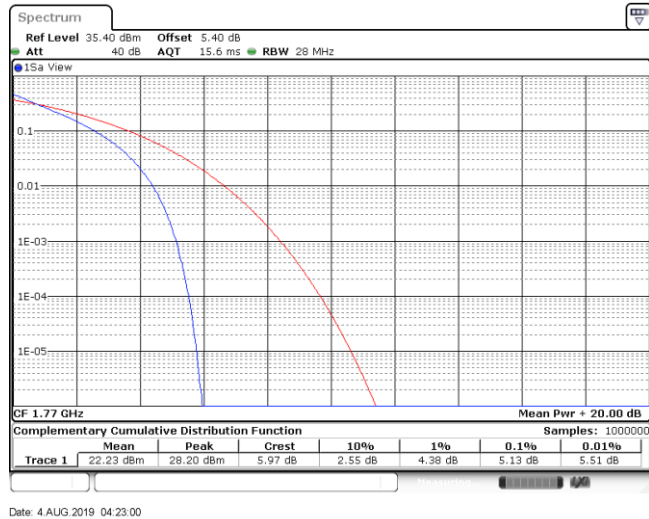
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Date: 4.AUG.2019 04:22:37

**Band66\_20MHz\_QPSK\_132572\_100RB#0**

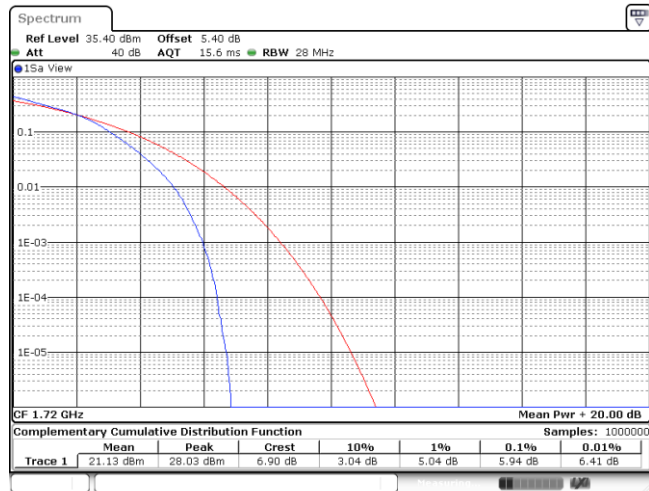


Date: 4.AUG.2019 04:23:00

**Band66\_20MHz\_16QAM\_132072\_100RB#0**

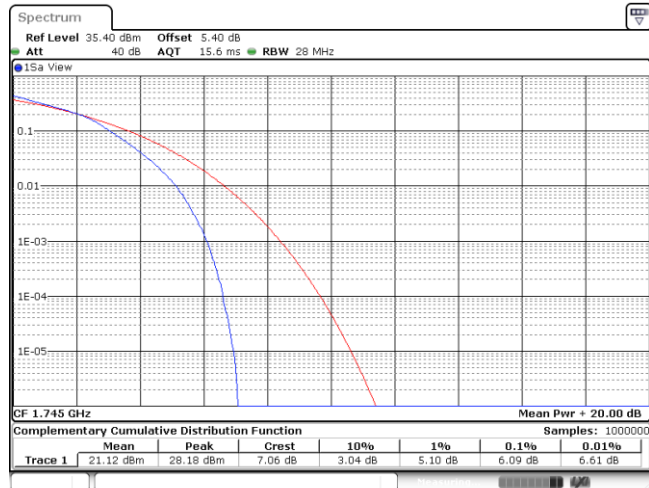


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Date: 4.AUG.2019 04:22:25

**Band66\_20MHz\_16QAM\_132322\_100RB#**

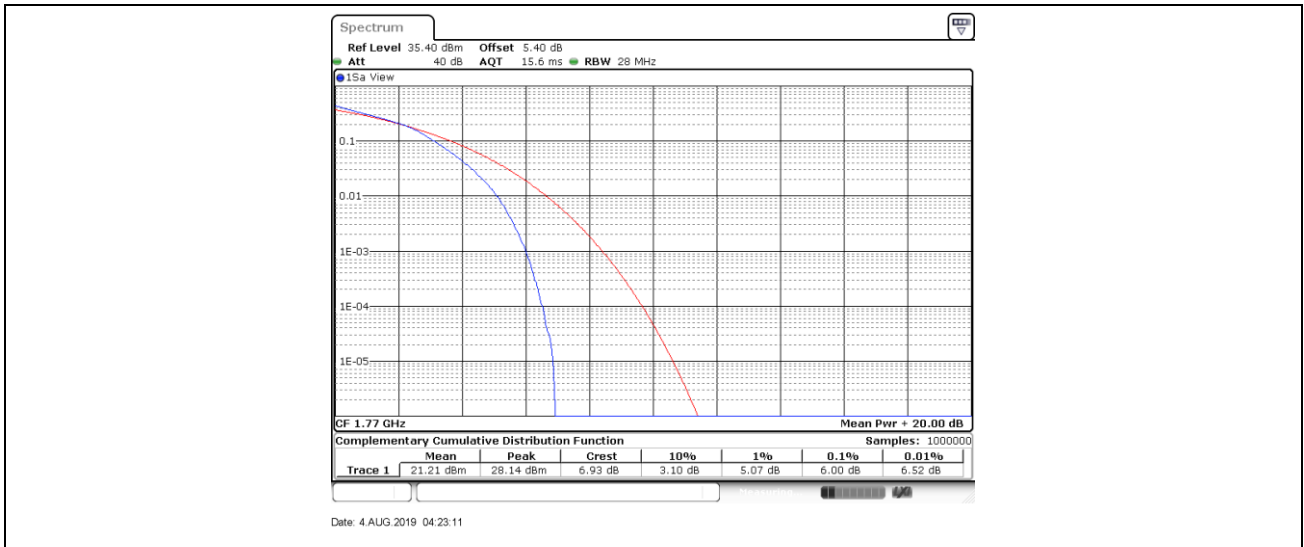


Date: 4.AUG.2019 04:22:48

**Band66\_20MHz\_16QAM\_132572\_100RB#**



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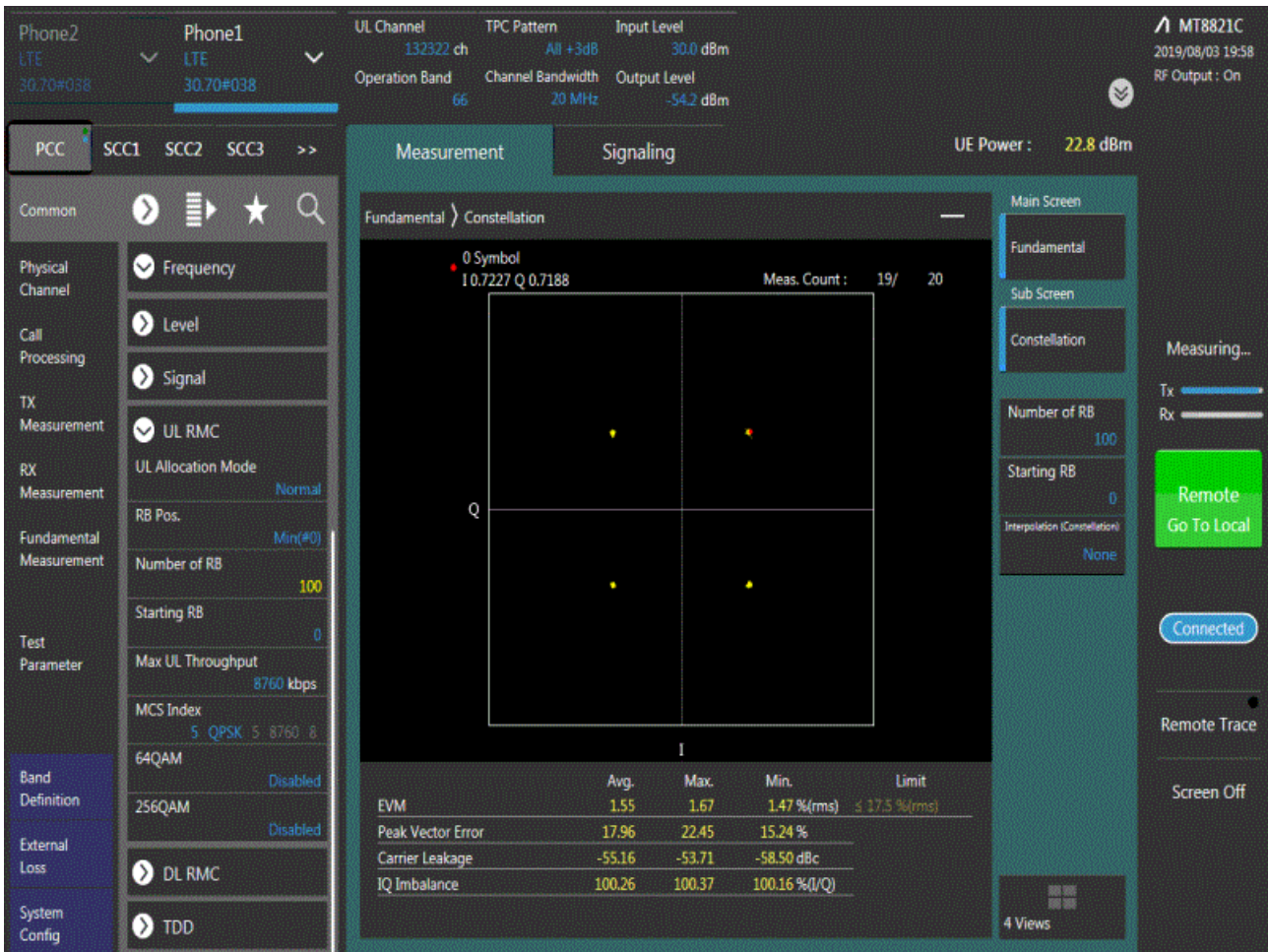
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### 3. Modulation Characteristics

#### 3.1. Test Band = LTE Band 66

#### 3.2. Test Mode = LTE /TM1 20MHz

#### 3.2.1. Test Channel = MCH

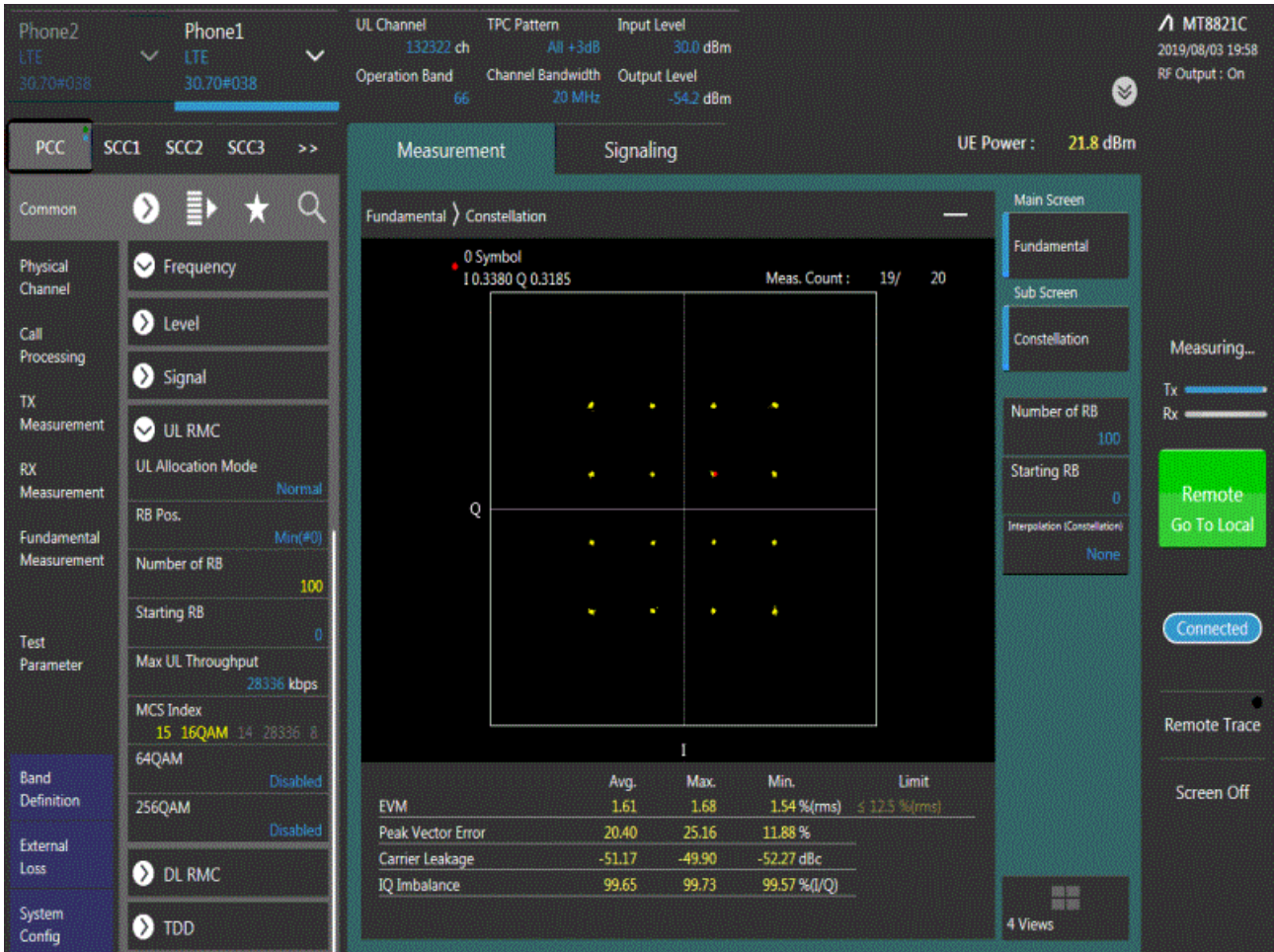


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### 3.3. Test Mode = LTE /TM2 20MHz

#### 3.3.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band66 | 1.4MHz    | QPSK       | 131979  | 6RB#0            | 1.091                    | 1.278                | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 6RB#0            | 1.088                    | 1.275                | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 6RB#0            | 1.088                    | 1.275                | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 6RB#0            | 1.088                    | 1.284                | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 6RB#0            | 1.091                    | 1.287                | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 6RB#0            | 1.091                    | 1.287                | PASS    |
| Band66 | 3MHz      | QPSK       | 131987  | 15RB#0           | 2.685                    | 2.916                | PASS    |
| Band66 | 3MHz      | QPSK       | 132322  | 15RB#0           | 2.685                    | 2.922                | PASS    |
| Band66 | 3MHz      | QPSK       | 132657  | 15RB#0           | 2.685                    | 2.922                | PASS    |
| Band66 | 3MHz      | 16QAM      | 131987  | 15RB#0           | 2.679                    | 2.898                | PASS    |
| Band66 | 3MHz      | 16QAM      | 132322  | 15RB#0           | 2.673                    | 2.904                | PASS    |
| Band66 | 3MHz      | 16QAM      | 132657  | 15RB#0           | 2.673                    | 2.898                | PASS    |
| Band66 | 5MHz      | QPSK       | 131997  | 25RB#0           | 4.486                    | 5.060                | PASS    |
| Band66 | 5MHz      | QPSK       | 132322  | 25RB#0           | 4.476                    | 5.060                | PASS    |
| Band66 | 5MHz      | QPSK       | 132647  | 25RB#0           | 4.476                    | 5.050                | PASS    |
| Band66 | 5MHz      | 16QAM      | 131997  | 25RB#0           | 4.486                    | 5.100                | PASS    |
| Band66 | 5MHz      | 16QAM      | 132322  | 25RB#0           | 4.496                    | 5.090                | PASS    |
| Band66 | 5MHz      | 16QAM      | 132647  | 25RB#0           | 4.486                    | 5.100                | PASS    |
| Band66 | 10MHz     | QPSK       | 132022  | 50RB#0           | 8.931                    | 9.940                | PASS    |
| Band66 | 10MHz     | QPSK       | 132322  | 50RB#0           | 8.931                    | 9.880                | PASS    |
| Band66 | 10MHz     | QPSK       | 132622  | 50RB#0           | 8.951                    | 9.880                | PASS    |
| Band66 | 10MHz     | 16QAM      | 132022  | 50RB#0           | 8.931                    | 9.960                | PASS    |
| Band66 | 10MHz     | 16QAM      | 132322  | 50RB#0           | 8.951                    | 9.840                | PASS    |
| Band66 | 10MHz     | 16QAM      | 132622  | 50RB#0           | 8.951                    | 9.940                | PASS    |
| Band66 | 15MHz     | QPSK       | 132047  | 75RB#0           | 13.487                   | 15.030               | PASS    |
| Band66 | 15MHz     | QPSK       | 132322  | 75RB#0           | 13.487                   | 15.120               | PASS    |
| Band66 | 15MHz     | QPSK       | 132597  | 75RB#0           | 13.516                   | 15.120               | PASS    |
| Band66 | 15MHz     | 16QAM      | 132047  | 75RB#0           | 13.487                   | 14.910               | PASS    |
| Band66 | 15MHz     | 16QAM      | 132322  | 75RB#0           | 13.516                   | 15.150               | PASS    |
| Band66 | 15MHz     | 16QAM      | 132597  | 75RB#0           | 13.516                   | 15.150               | PASS    |
| Band66 | 20MHz     | QPSK       | 132072  | 100RB#0          | 17.862                   | 19.680               | PASS    |



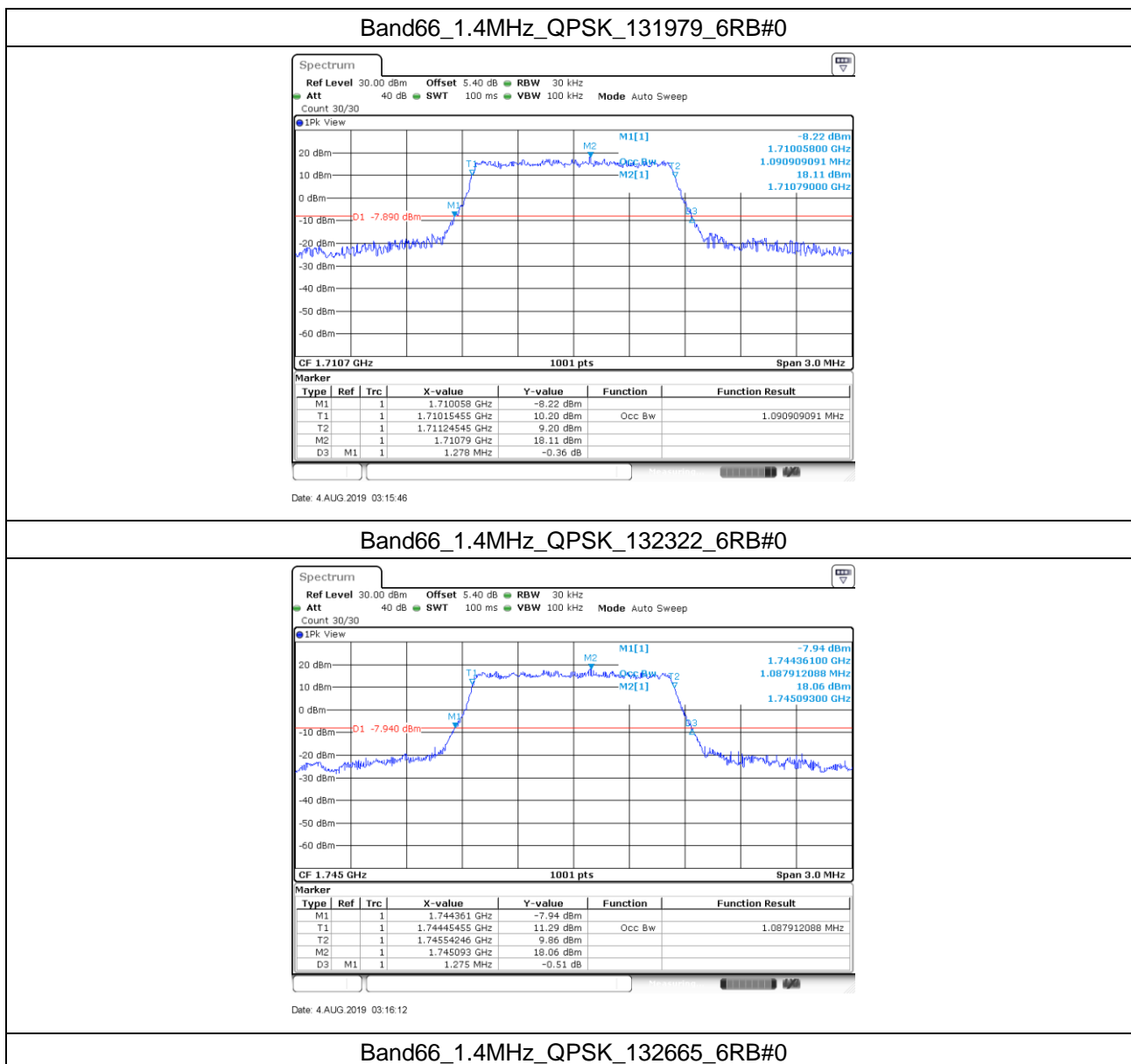
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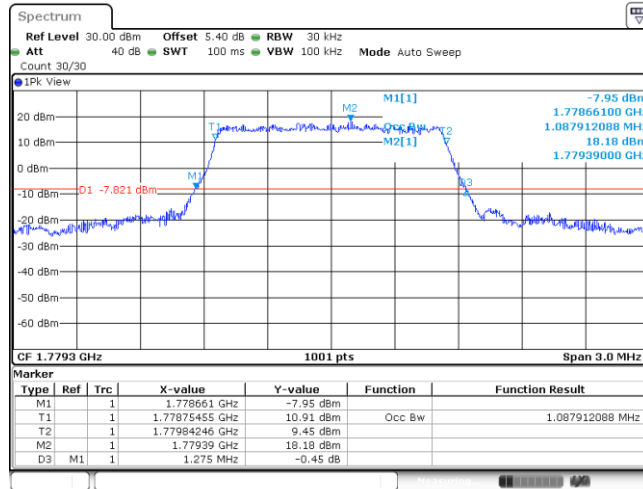


|        |       |       |        |         |        |        |      |
|--------|-------|-------|--------|---------|--------|--------|------|
| Band66 | 20MHz | QPSK  | 132322 | 100RB#0 | 17.942 | 19.760 | PASS |
| Band66 | 20MHz | QPSK  | 132572 | 100RB#0 | 17.982 | 19.760 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 100RB#0 | 17.902 | 19.640 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 100RB#0 | 17.942 | 19.800 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 100RB#0 | 17.982 | 19.680 | PASS |

## 4.2. Test Plots

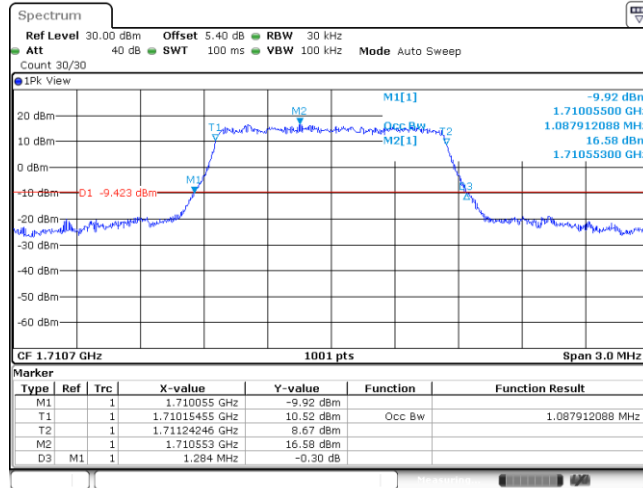


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Date: 4 AUG.2019 03:16:38

**Band66\_1.4MHz\_16QAM\_131979\_6RB#0**

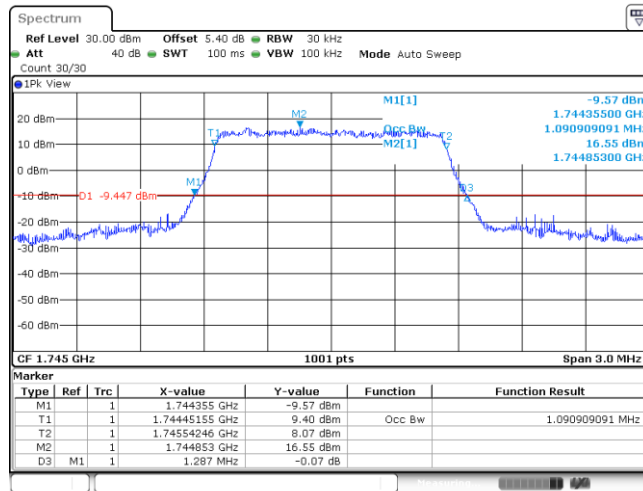


Date: 4 AUG.2019 03:15:59

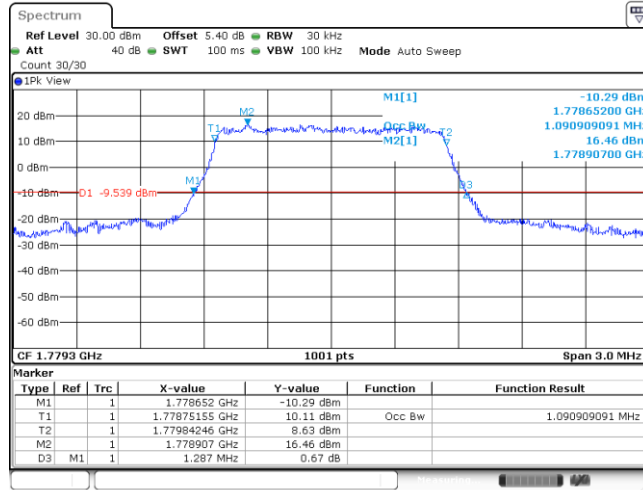
**Band66\_1.4MHz\_16QAM\_132322\_6RB#0**



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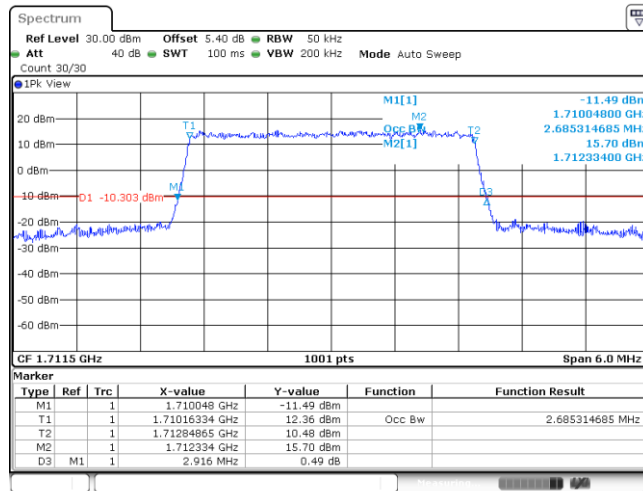
**Band66\_1.4MHz\_16QAM\_132665\_6RB#0**



**Band66\_3MHz\_QPSK\_131987\_15RB#0**

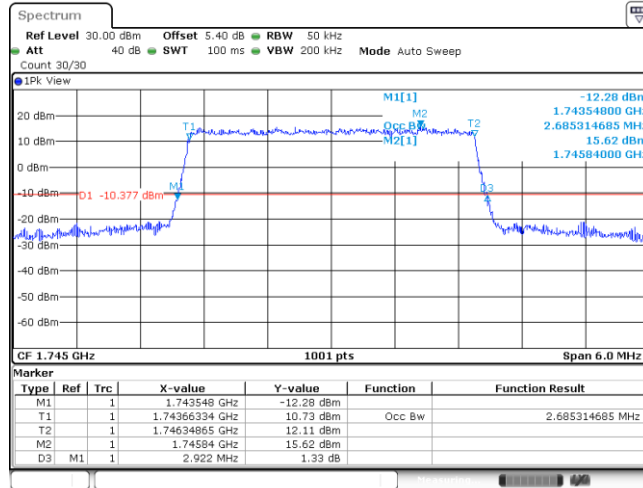


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Date: 4 AUG.2019 03:17:09

**Band66\_3MHz\_QPSK\_132322\_15RB#0**

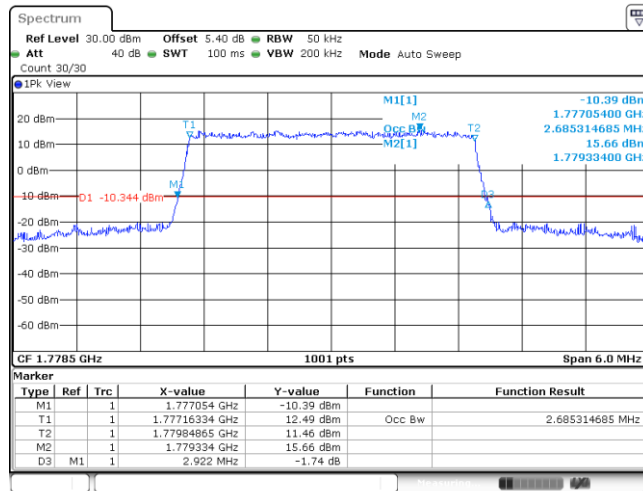


Date: 4 AUG.2019 03:17:34

**Band66\_3MHz\_QPSK\_132657\_15RB#0**

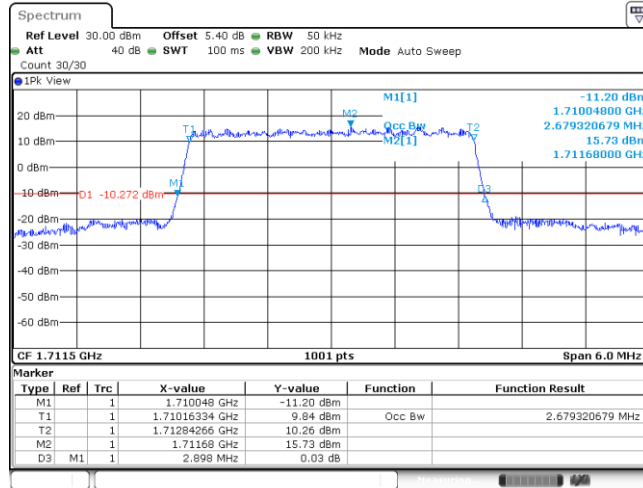


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Date: 4 AUG.2019 03:18:00

**Band66\_3MHz\_16QAM\_131987\_15RB#0**

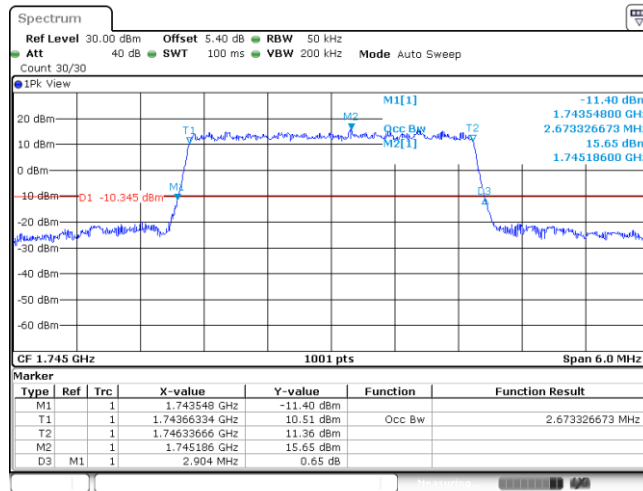


Date: 4 AUG.2019 03:17:21

**Band66\_3MHz\_16QAM\_132322\_15RB#0**

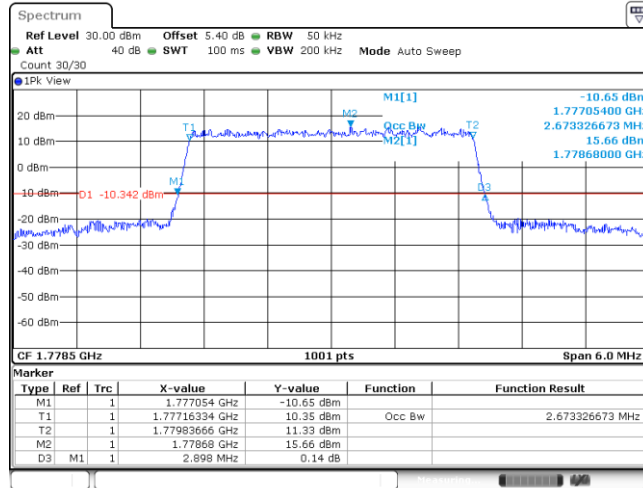


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Date: 4 AUG.2019 03:17:47

**Band66\_3MHz\_16QAM\_132657\_15RB#0**

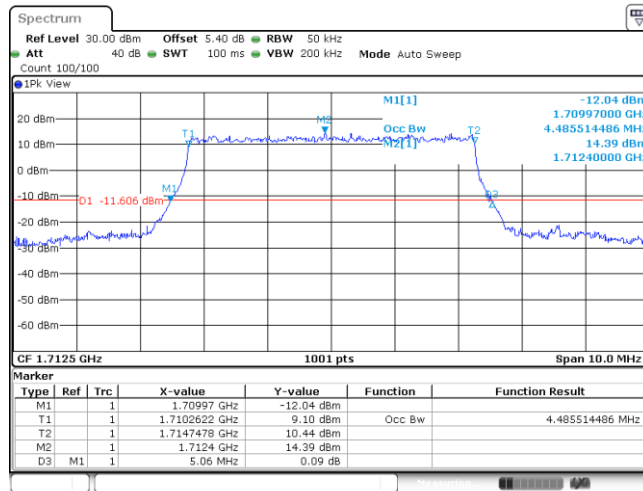


Date: 4 AUG.2019 03:18:13

**Band66\_5MHz\_QPSK\_131997\_25RB#0**

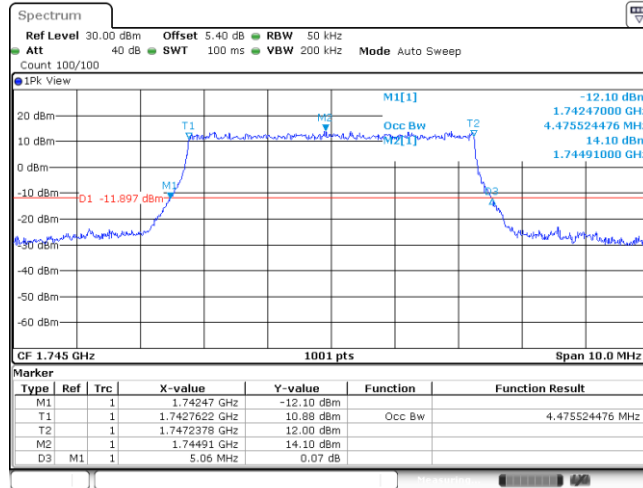


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Date: 4 AUG.2019 03:18:38

**Band66\_5MHz\_QPSK\_132322\_25RB#0**

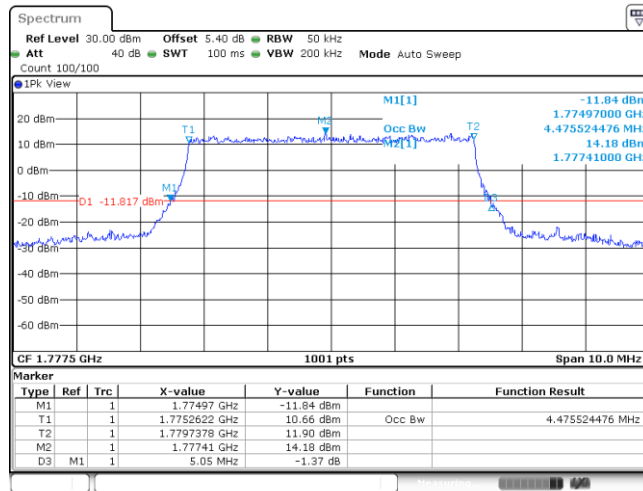


Date: 4 AUG.2019 03:19:18

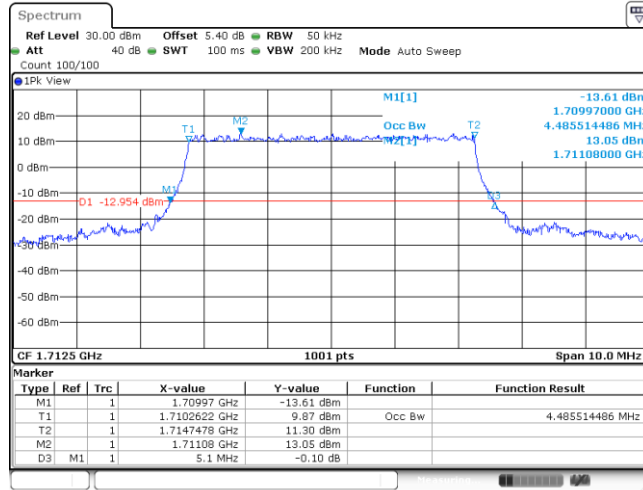
**Band66\_5MHz\_QPSK\_132647\_25RB#0**



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**Band66\_5MHz\_16QAM\_131997\_25RB#0**

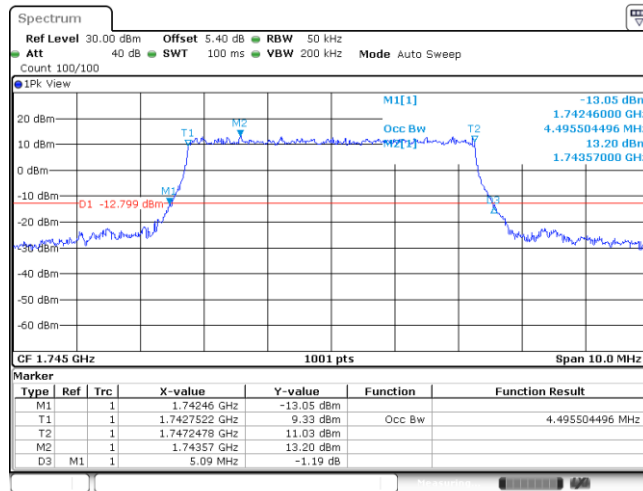


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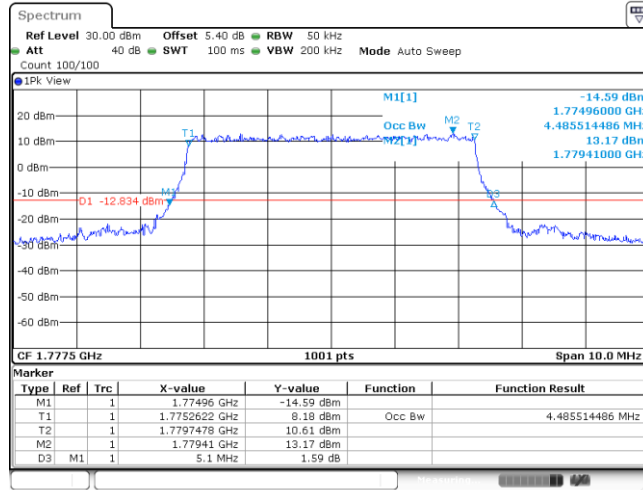


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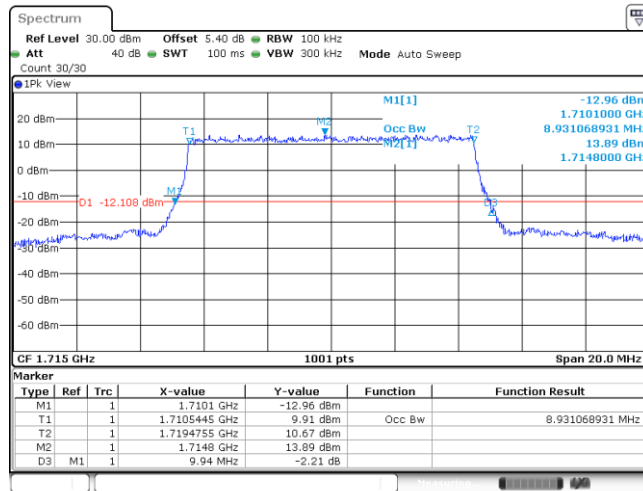
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**Band66\_10MHz\_QPSK\_132022\_50RB#0**

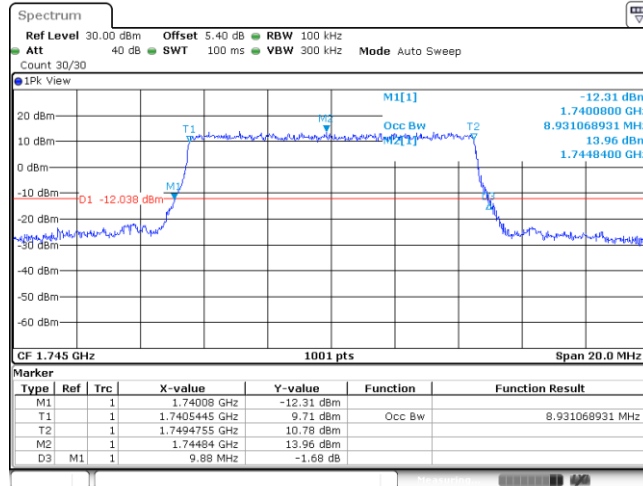


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Date: 4 AUG.2019 03:20:36

**Band66\_10MHz\_QPSK\_132322\_50RB#0**

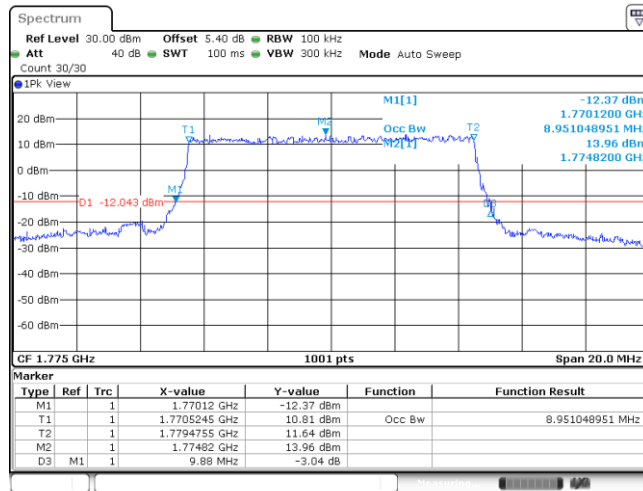


Date: 4 AUG.2019 03:21:01

**Band66\_10MHz\_QPSK\_132622\_50RB#0**

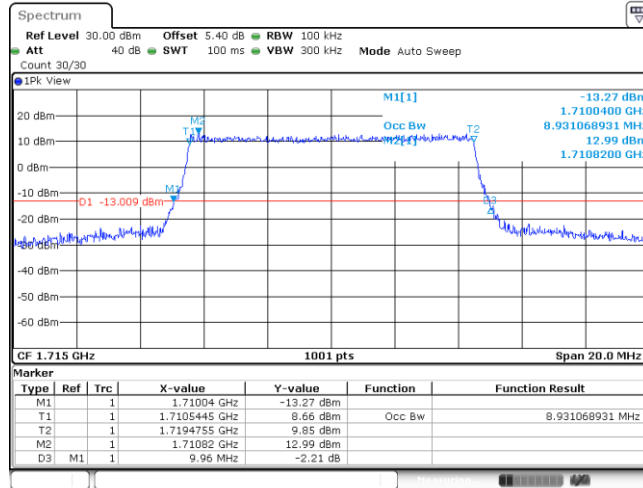


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Date: 4 AUG.2019 03:21:27

**Band66\_10MHz\_16QAM\_132022\_50RB#0**

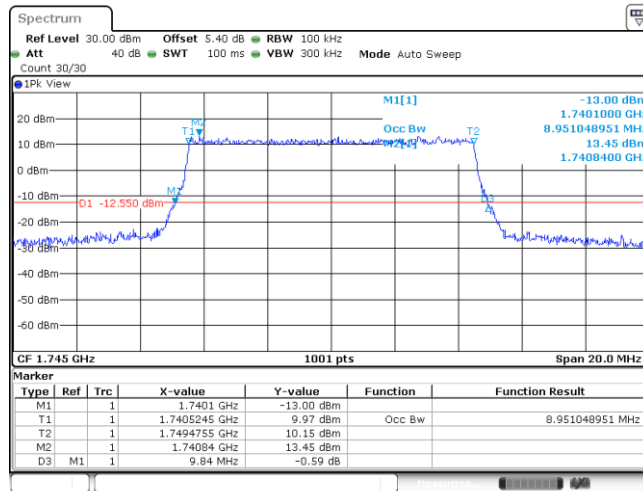


Date: 4 AUG.2019 03:20:49

**Band66\_10MHz\_16QAM\_132322\_50RB#0**

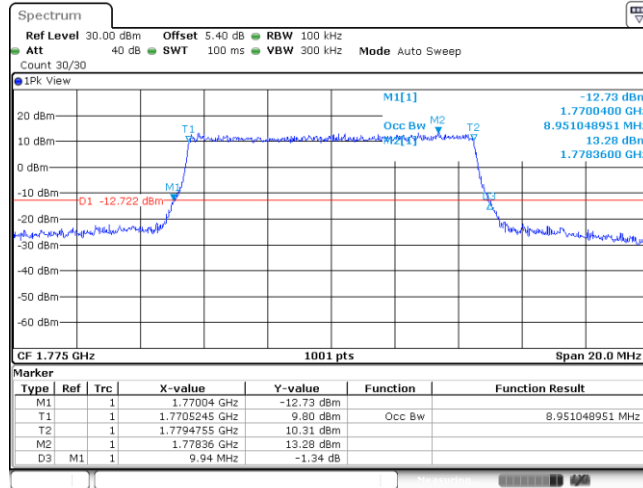


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Date: 4 AUG.2019 03:21:14

**Band66\_10MHz\_16QAM\_132622\_50RB#0**

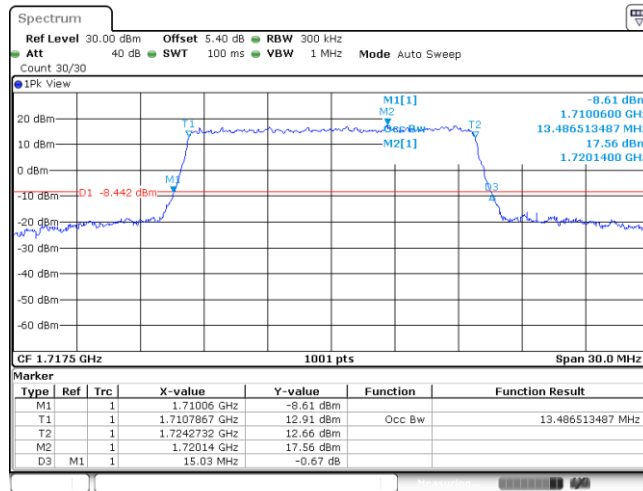


Date: 4 AUG.2019 03:21:40

**Band66\_15MHz\_QPSK\_132047\_75RB#0**

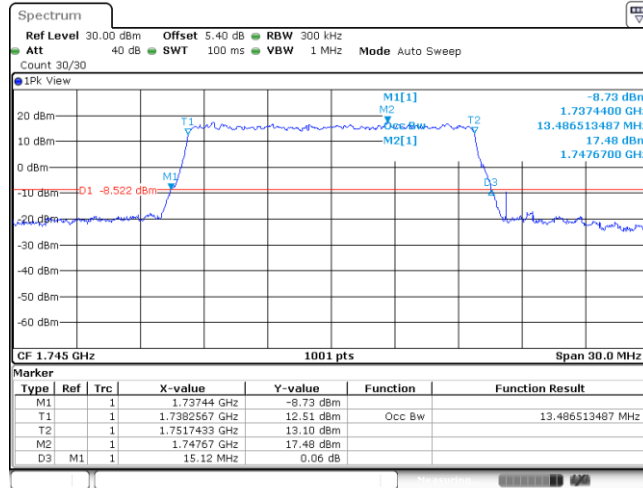


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Date: 4 AUG.2019 03:21:59

**Band66\_15MHz\_QPSK\_132322\_75RB#0**

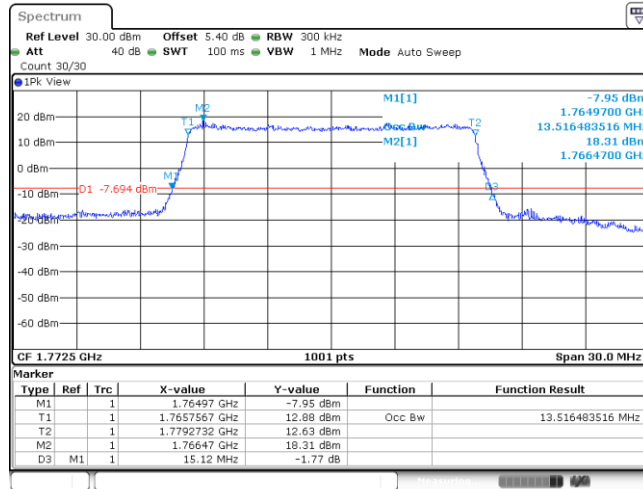


Date: 4 AUG.2019 03:22:25

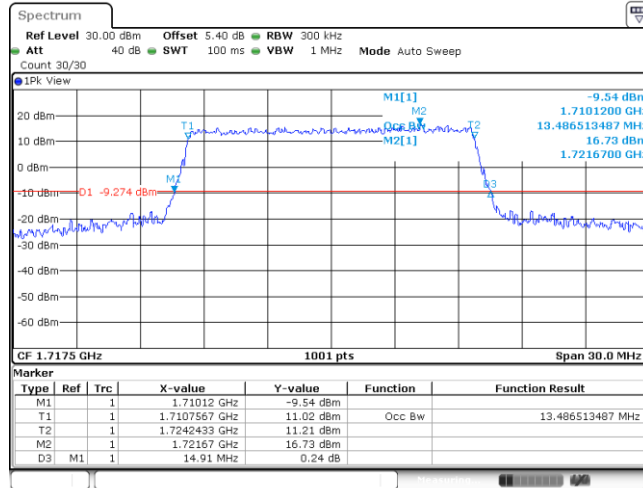
**Band66\_15MHz\_QPSK\_132597\_75RB#0**



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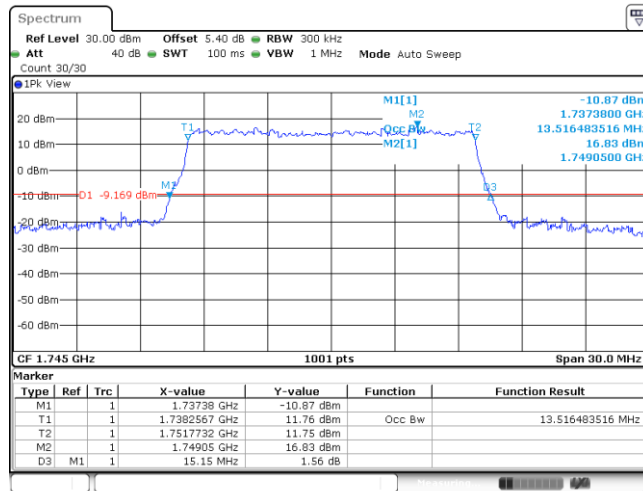
**Band66\_15MHz\_16QAM\_132047\_75RB#0**



**Band66\_15MHz\_16QAM\_132322\_75RB#0**

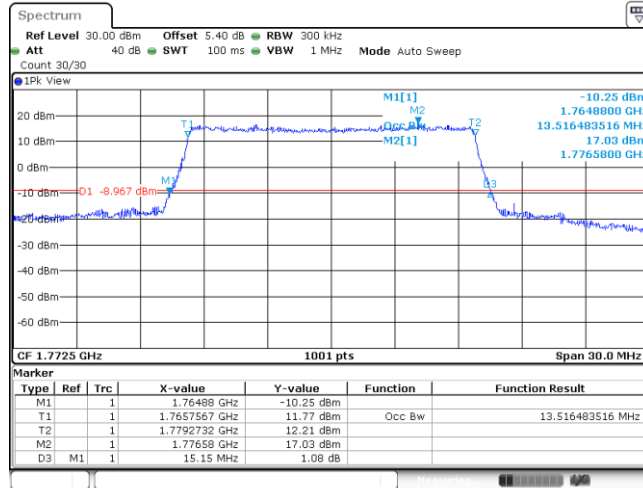


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Date: 4 AUG.2019 03:22:38

**Band66\_15MHz\_16QAM\_132597\_75RB#0**

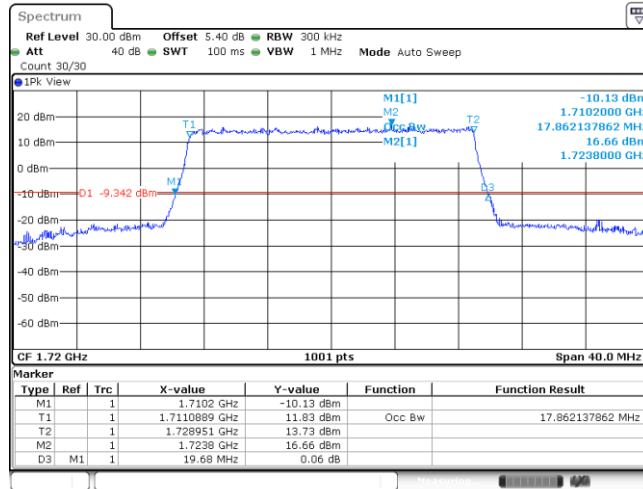


Date: 4 AUG.2019 03:23:04

**Band66\_20MHz\_QPSK\_132072\_100RB#0**

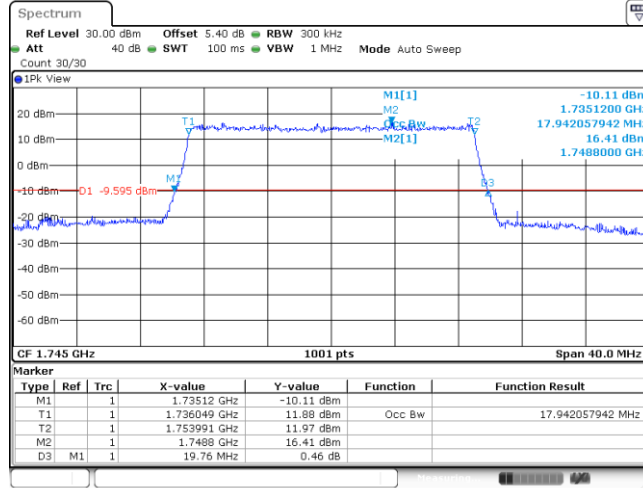


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Date: 4 AUG.2019 03:23:23

**Band66\_20MHz\_QPSK\_132322\_100RB#0**



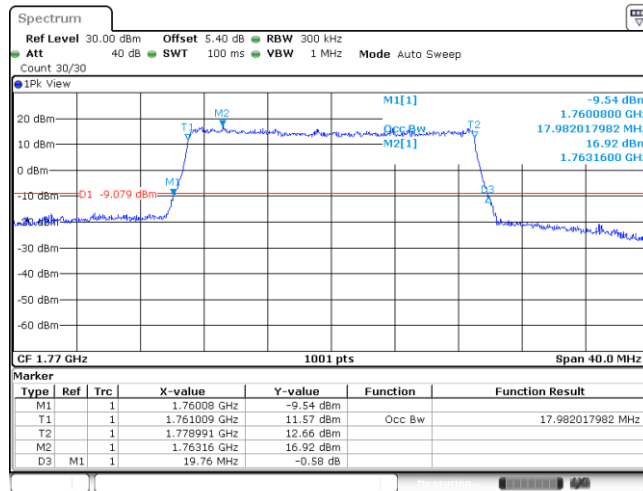
Date: 4 AUG.2019 03:23:48

**Band66\_20MHz\_QPSK\_132572\_100RB#0**



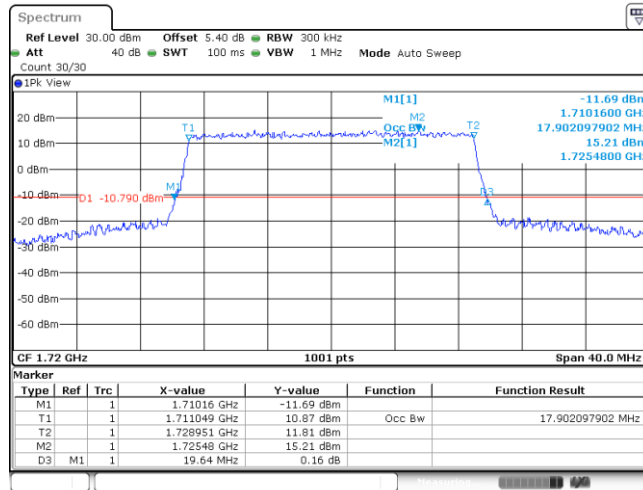
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Date: 4 AUG.2019 03:24:14

**Band66\_20MHz\_16QAM\_132072\_100RB#0**

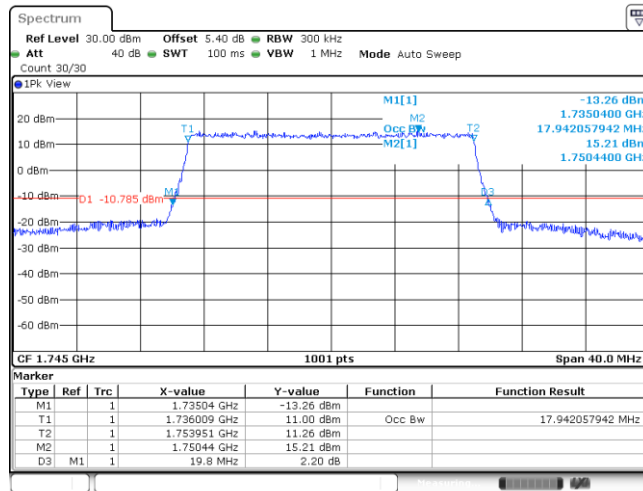


Date: 4 AUG.2019 03:23:35

**Band66\_20MHz\_16QAM\_132322\_100RB#0**

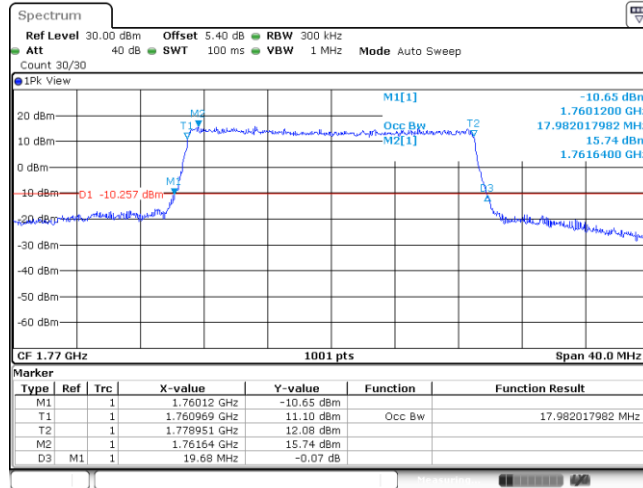


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Date: 4 AUG 2019 03:24:01

**Band66\_20MHz\_16QAM\_132572\_100RB#0**



Date: 4 AUG 2019 03:24:27

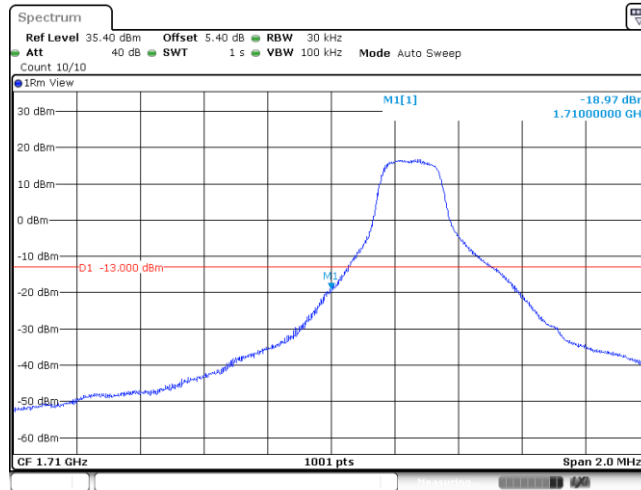


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## 5. Band Edge Compliance

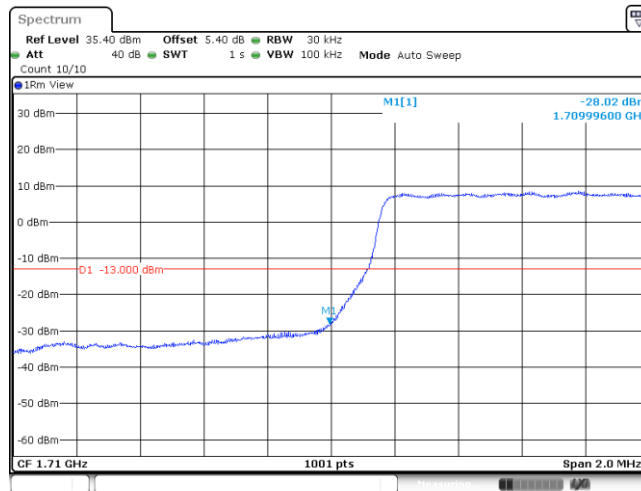
### 5.1. Test Plots

Band66\_1.4MHz\_QPSK\_131979\_1RB#0



Date: 4.AUG.2019 04:02:15

Band66\_1.4MHz\_QPSK\_131979\_6RB#0

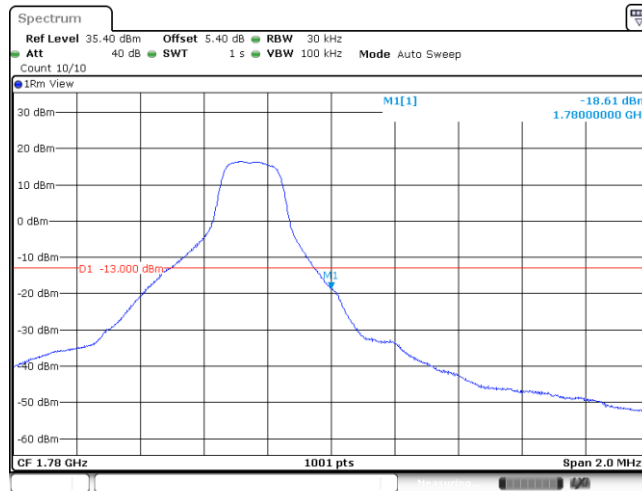


Date: 4.AUG.2019 04:02:54

Band66\_1.4MHz\_QPSK\_132665\_1RB#5

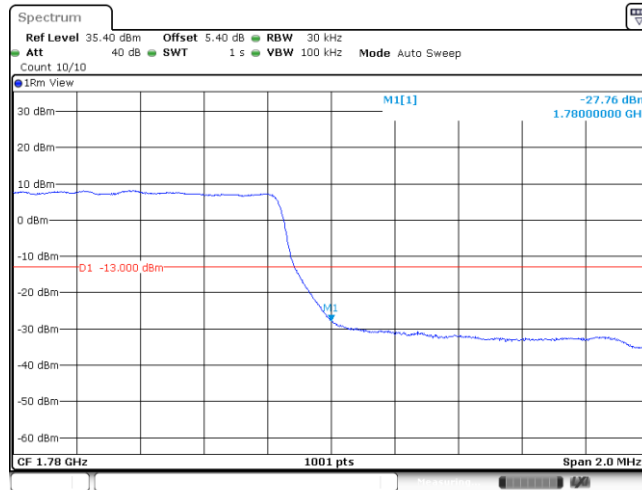


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Date: 4 AUG 2019 04:03:37

**Band66\_1.4MHz\_QPSK\_132665\_6RB#0**

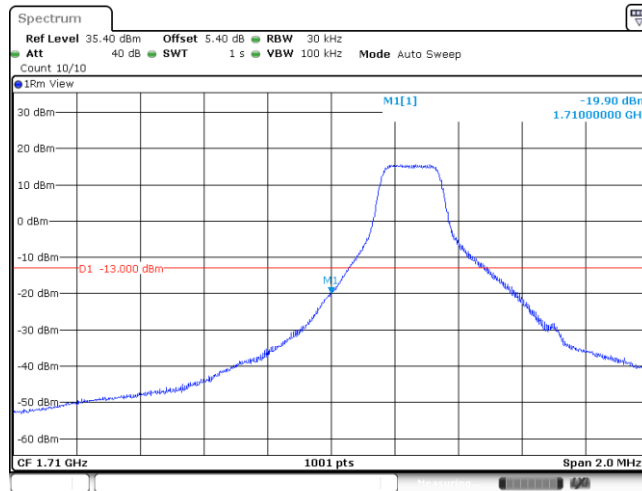


Date: 4 AUG 2019 04:04:16

**Band66\_1.4MHz\_16QAM\_131979\_1RB#0**

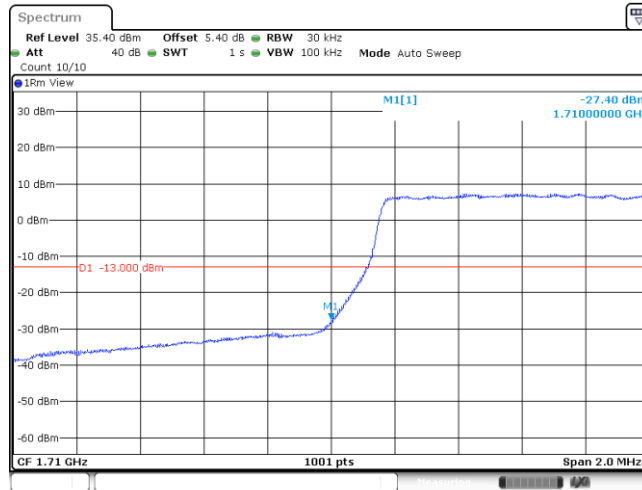


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Date: 4 AUG 2019 04:02:35

**Band66\_1.4MHz\_16QAM\_131979\_6RB#0**



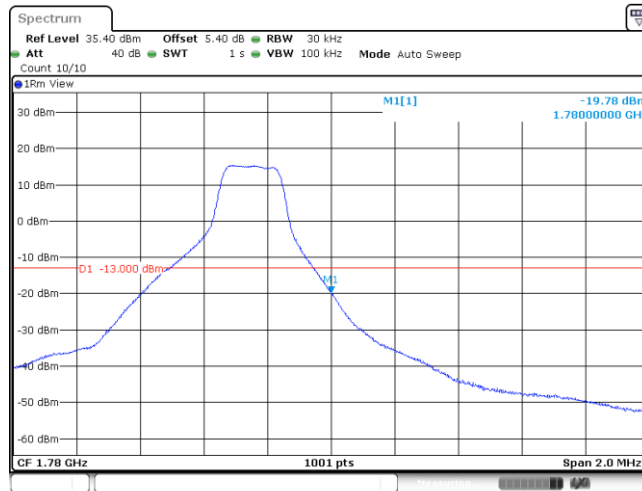
Date: 4 AUG 2019 04:03:14

**Band66\_1.4MHz\_16QAM\_132665\_1RB#5**



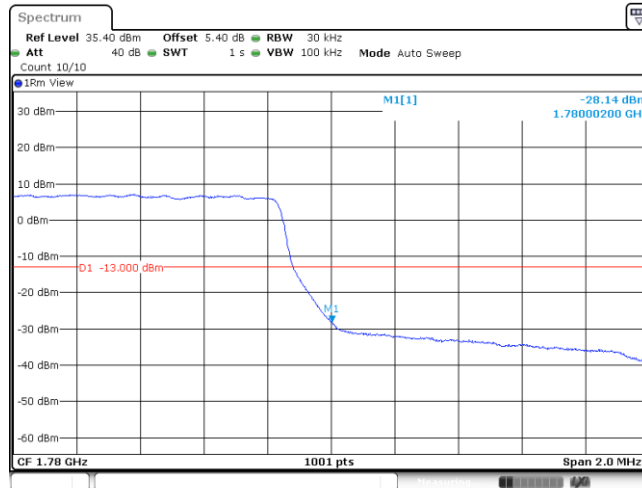
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Date: 4 AUG 2019 04:03:57

**Band66\_1.4MHz\_16QAM\_132665\_6RB#0**

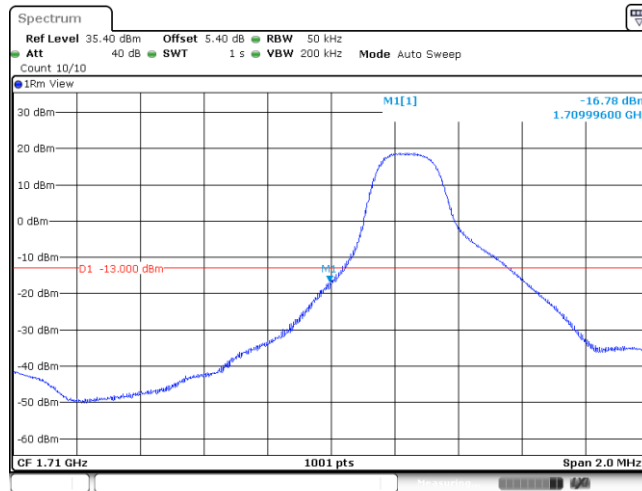


Date: 4 AUG 2019 04:04:36

**Band66\_3MHz\_QPSK\_131987\_1RB#0**

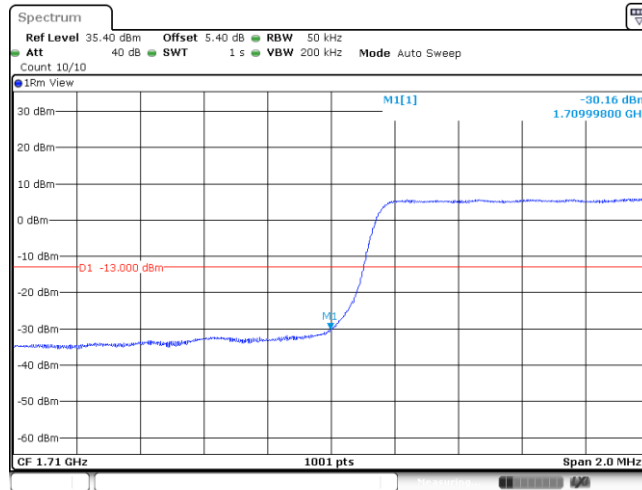


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Date: 4 AUG 2019 04:05:01

**Band66\_3MHz\_QPSK\_131987\_15RB#0**

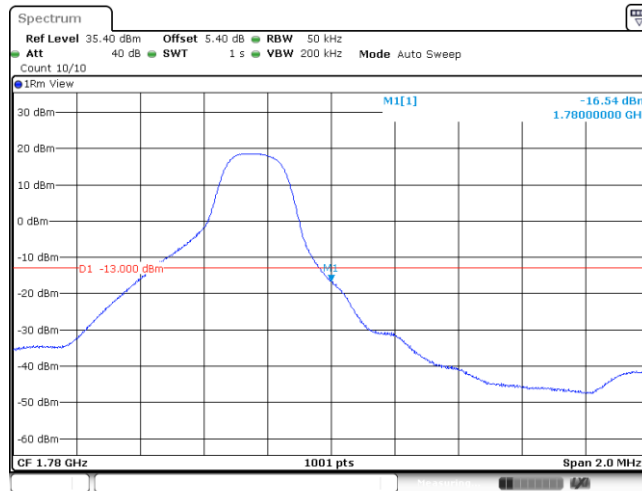


Date: 4 AUG 2019 04:05:40

**Band66\_3MHz\_QPSK\_132657\_1RB#14**

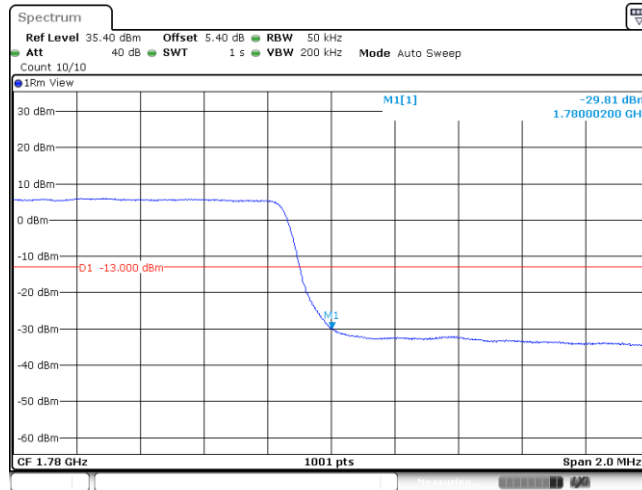


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Date: 4.AUG.2019 04:06:24

**Band66\_3MHz\_QPSK\_132657\_15RB#0**



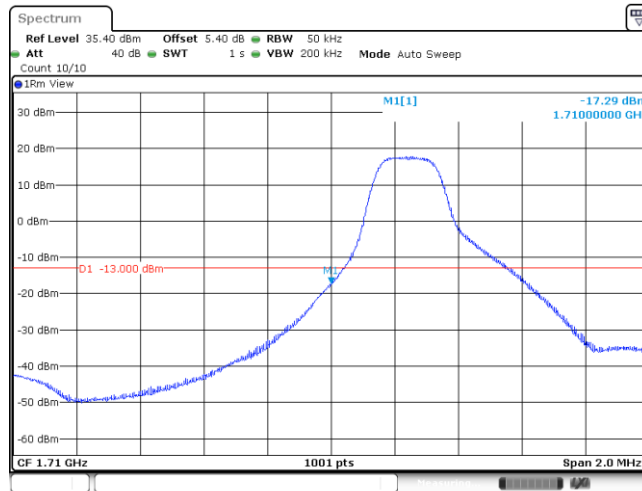
Date: 4.AUG.2019 04:07:03

**Band66\_3MHz\_16QAM\_131987\_1RB#0**



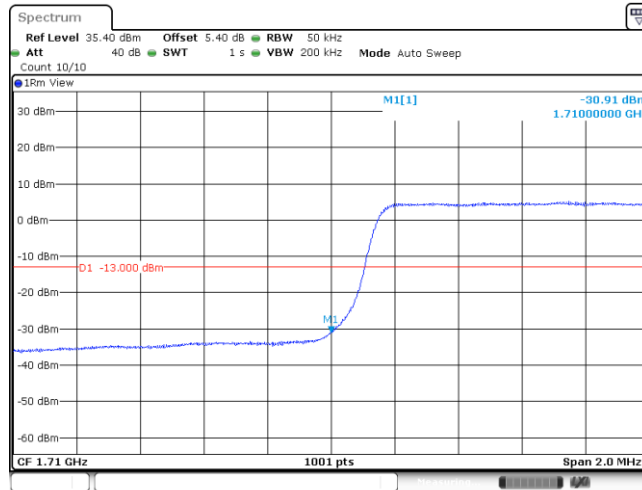
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Date: 4 AUG 2019 04:05:21

**Band66\_3MHz\_16QAM\_131987\_15RB#0**

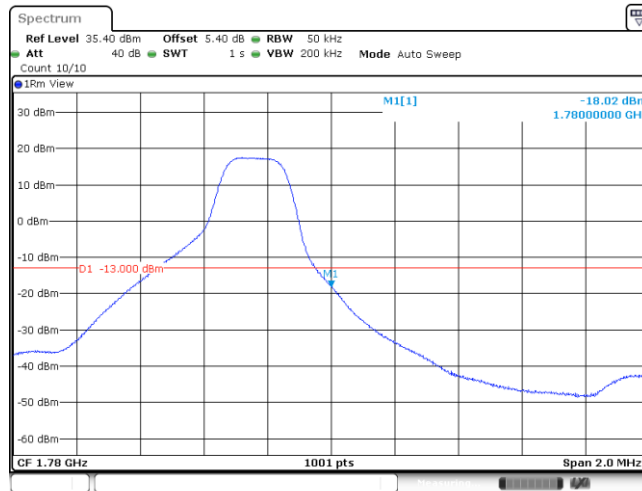


Date: 4 AUG 2019 04:06:00

**Band66\_3MHz\_16QAM\_132657\_1RB#14**

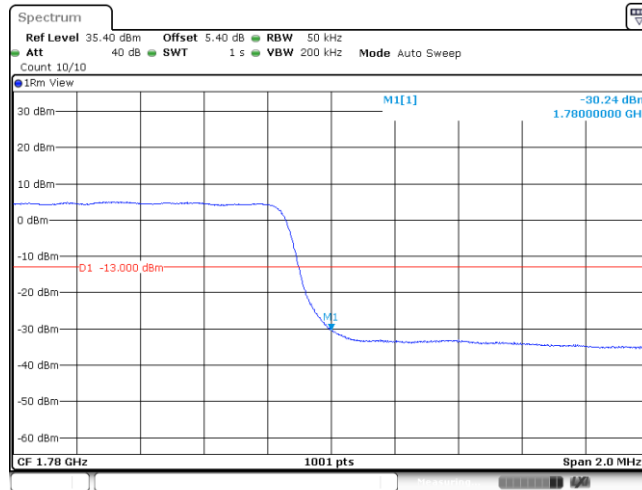


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Date: 4.AUG.2019 04:06:43

**Band66\_3MHz\_16QAM\_132657\_15RB#0**

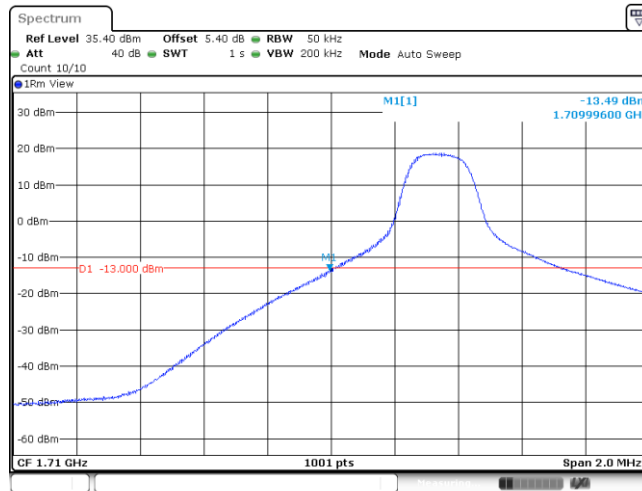


Date: 4.AUG.2019 04:07:23

**Band66\_5MHz\_QPSK\_131997\_1RB#0**

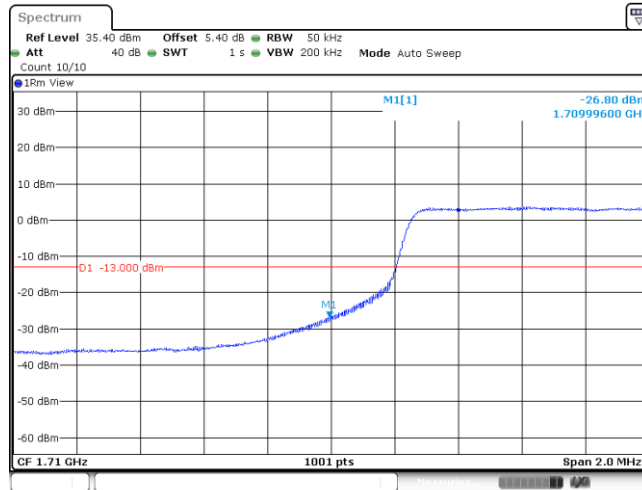


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Date: 4 AUG 2019 04:07:48

**Band66\_5MHz\_QPSK\_131997\_25RB#0**

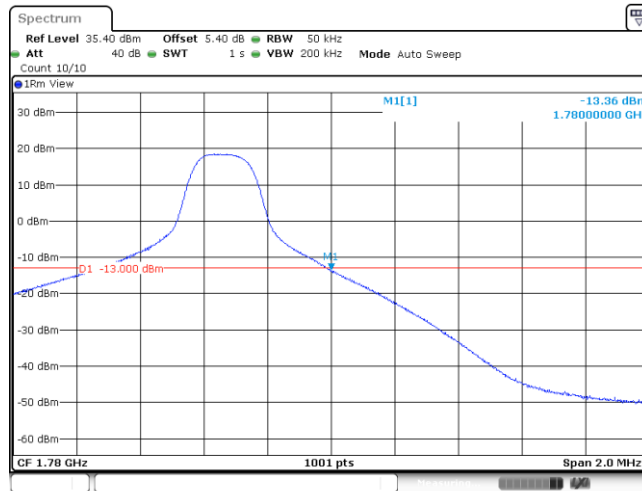


Date: 4 AUG 2019 04:08:27

**Band66\_5MHz\_QPSK\_132647\_1RB#24**

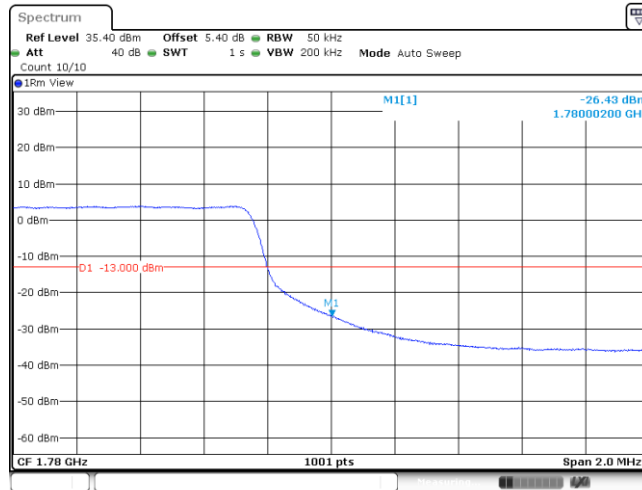


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Date: 4 AUG 2019 04:09:11

**Band66\_5MHz\_QPSK\_132647\_25RB#0**

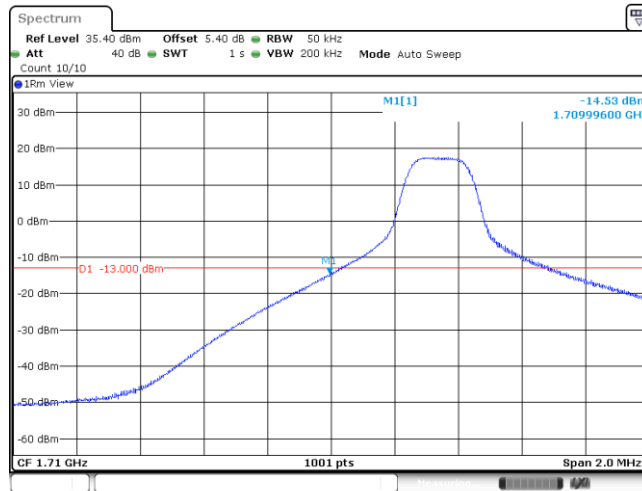


Date: 4 AUG 2019 04:09:50

**Band66\_5MHz\_16QAM\_131997\_1RB#0**

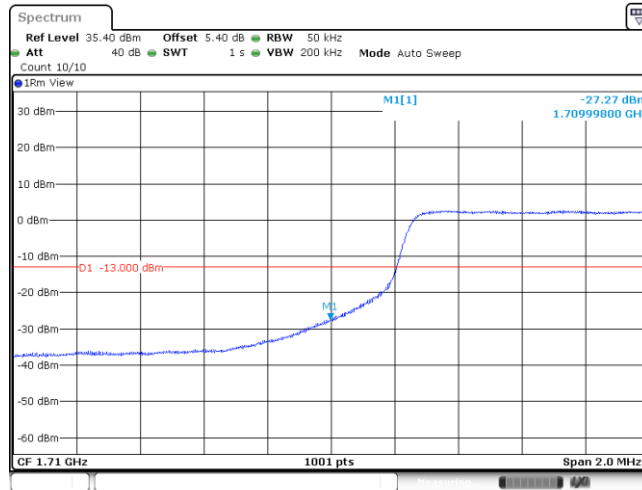


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Date: 4 AUG 2019 04:08:07

**Band66\_5MHz\_16QAM\_131997\_25RB#0**

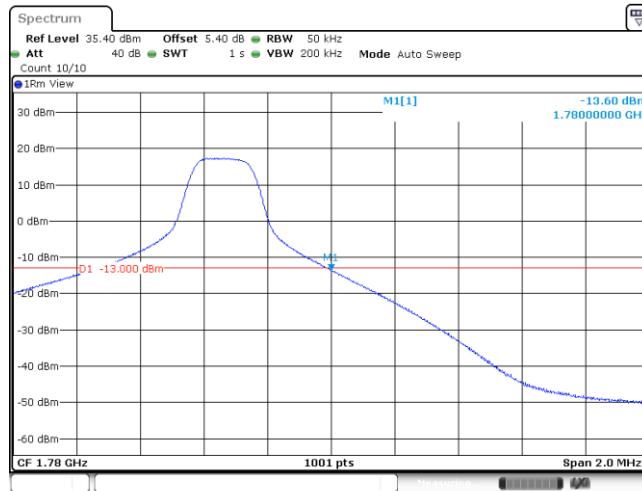


Date: 4 AUG 2019 04:08:47

**Band66\_5MHz\_16QAM\_132647\_1RB#24**

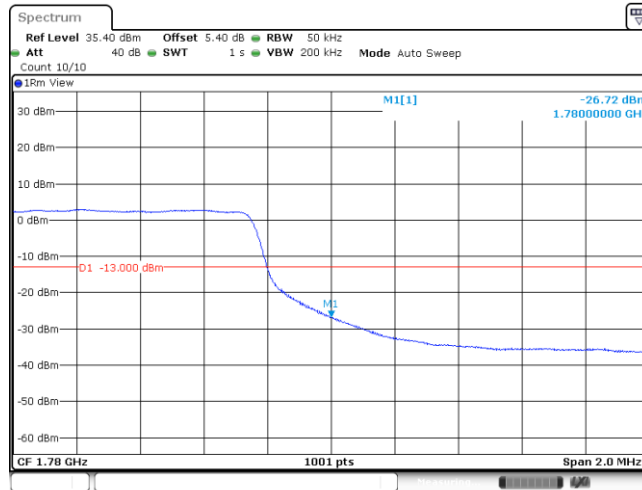


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Date: 4 AUG 2019 04:09:30

**Band66\_5MHz\_16QAM\_132647\_25RB#0**

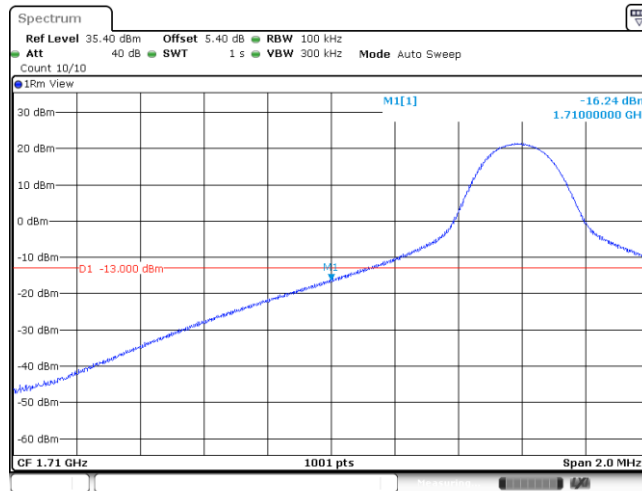


Date: 4 AUG 2019 04:10:09

**Band66\_10MHz\_QPSK\_132022\_1RB#0**

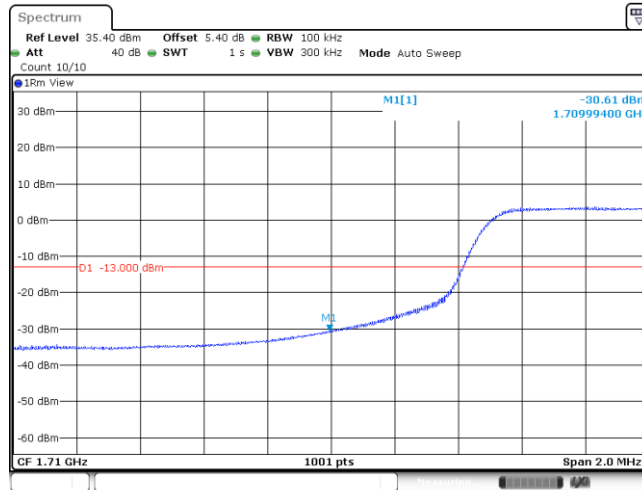


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Date: 4.AUG.2019 04:10:35

**Band66\_10MHz\_QPSK\_132022\_50RB#0**

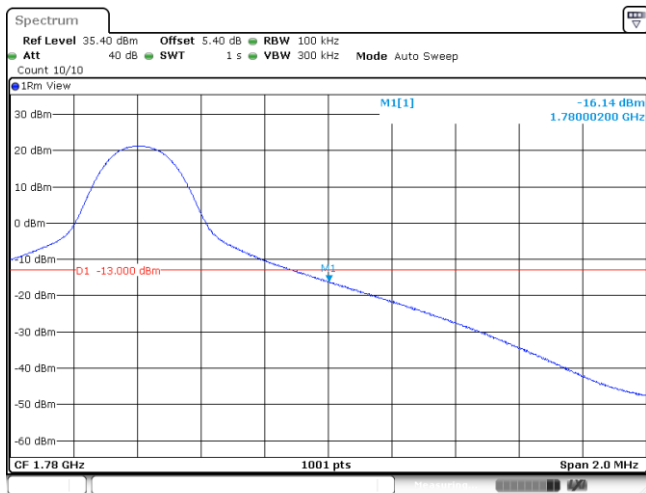


Date: 4.AUG.2019 04:11:14

**Band66\_10MHz\_QPSK\_132622\_1RB#49**

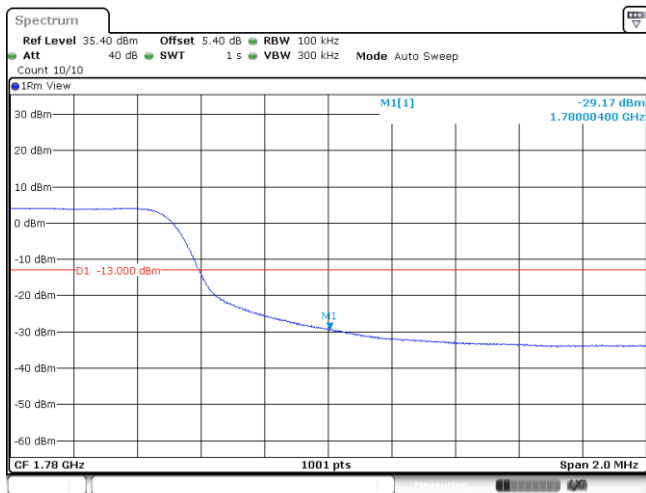


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Date: 4 AUG 2019 04:11:57

**Band66\_10MHz\_QPSK\_132622\_50RB#0**



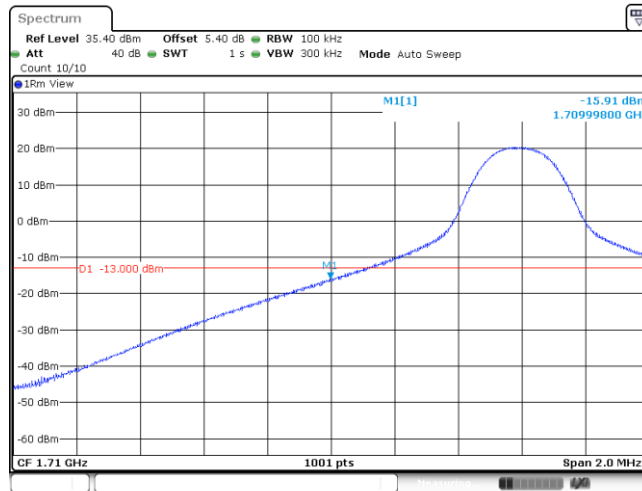
Date: 4 AUG 2019 04:12:38

**Band66\_10MHz\_16QAM\_132022\_1RB#0**



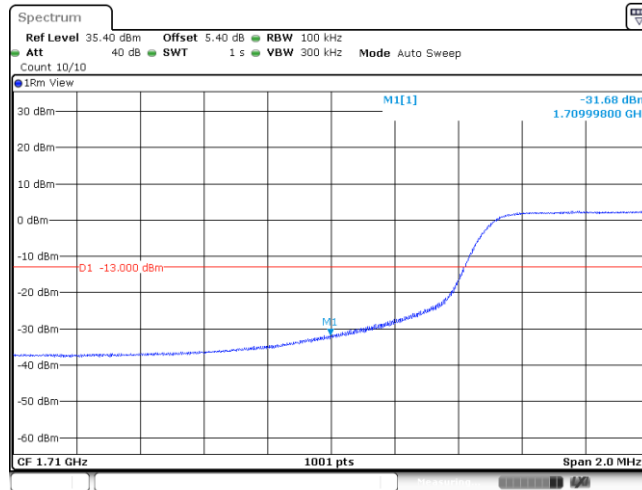
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Date: 4 AUG 2019 04:10:54

**Band66\_10MHz\_16QAM\_132022\_50RB#0**

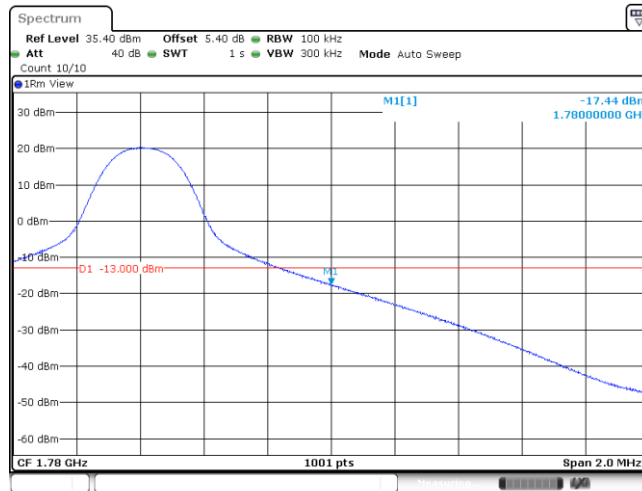


Date: 4 AUG 2019 04:11:33

**Band66\_10MHz\_16QAM\_132622\_1RB#49**

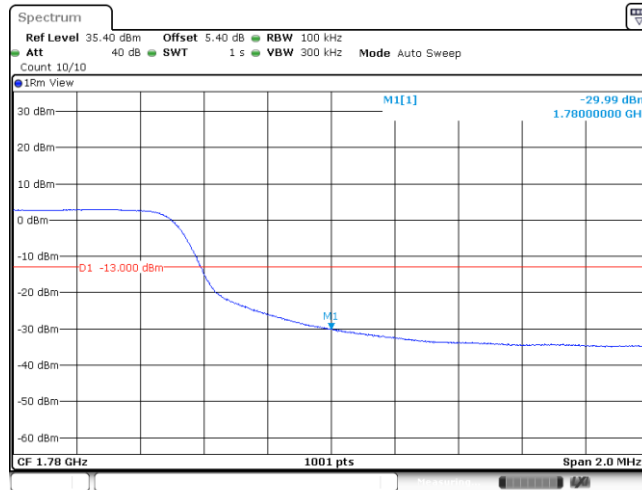


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Date: 4 AUG 2019 04:12:17

**Band66\_10MHz\_16QAM\_132622\_50RB#0**

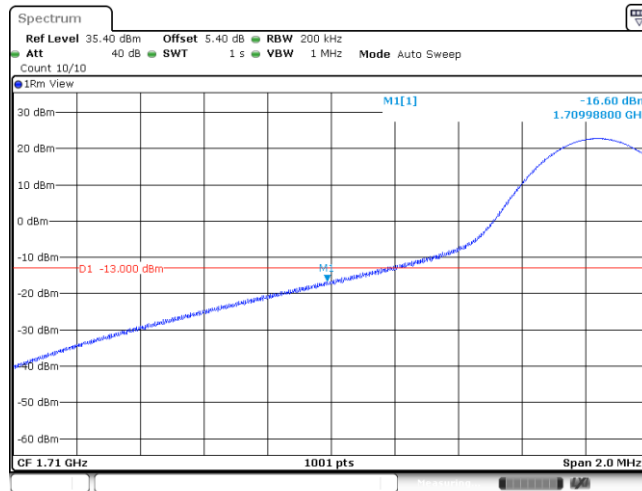


Date: 4 AUG 2019 04:12:56

**Band66\_15MHz\_QPSK\_132047\_1RB#0**

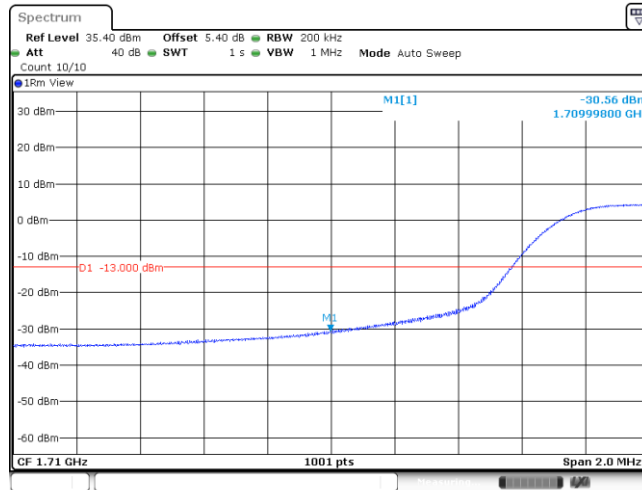


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Date: 4 AUG 2019 04:13:21

**Band66\_15MHz\_QPSK\_132047\_75RB#0**

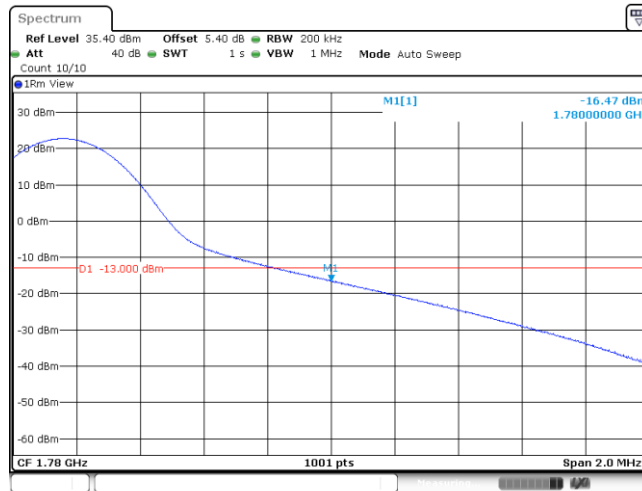


Date: 4 AUG 2019 04:14:00

**Band66\_15MHz\_QPSK\_132597\_1RB#74**

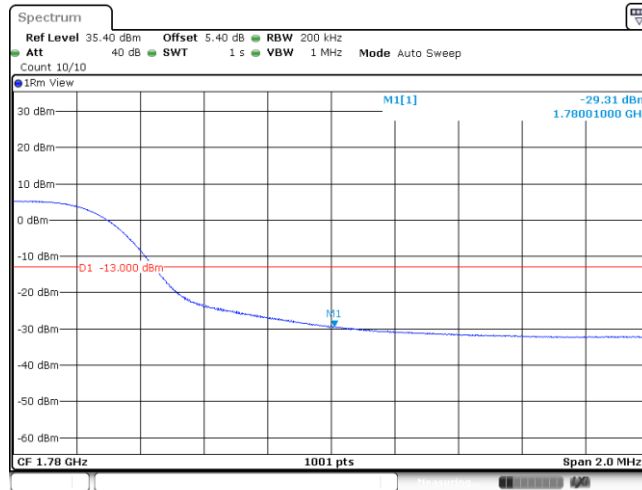


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Date: 4 AUG 2019 04:14:43

**Band66\_15MHz\_QPSK\_132597\_75RB#0**

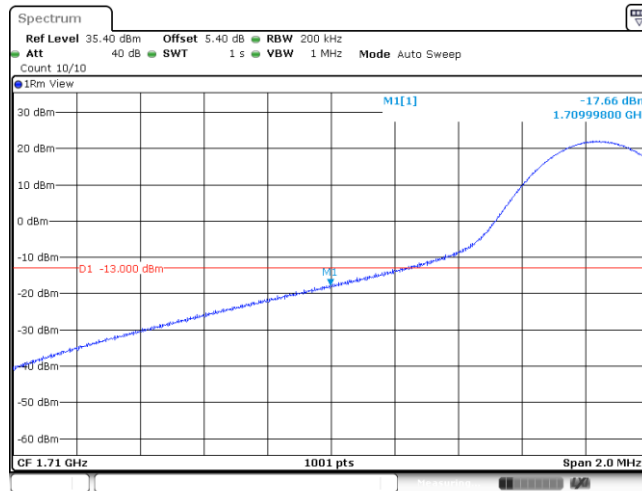


Date: 4 AUG 2019 04:15:22

**Band66\_15MHz\_16QAM\_132047\_1RB#0**

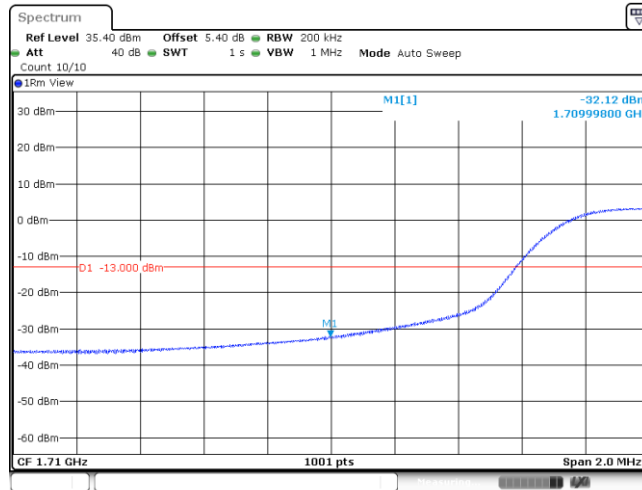


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Date: 4 AUG 2019 04:13:40

**Band66\_15MHz\_16QAM\_132047\_75RB#0**

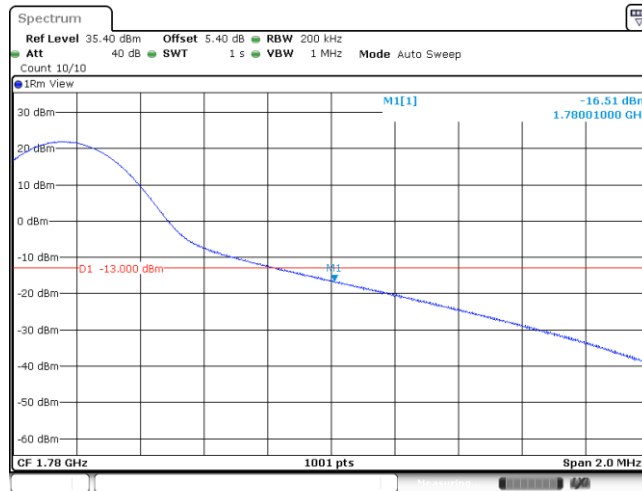


Date: 4 AUG 2019 04:14:20

**Band66\_15MHz\_16QAM\_132597\_1RB#74**

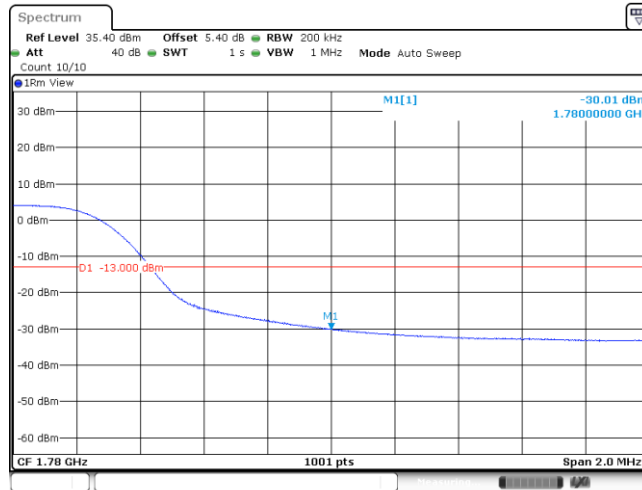


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Date: 4 AUG 2019 04:15:03

**Band66\_15MHz\_16QAM\_132597\_75RB#0**

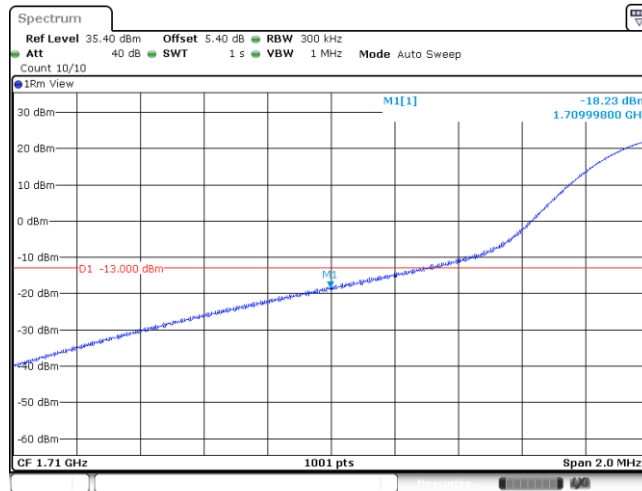


Date: 4 AUG 2019 04:15:41

**Band66\_20MHz\_QPSK\_132072\_1RB#0**

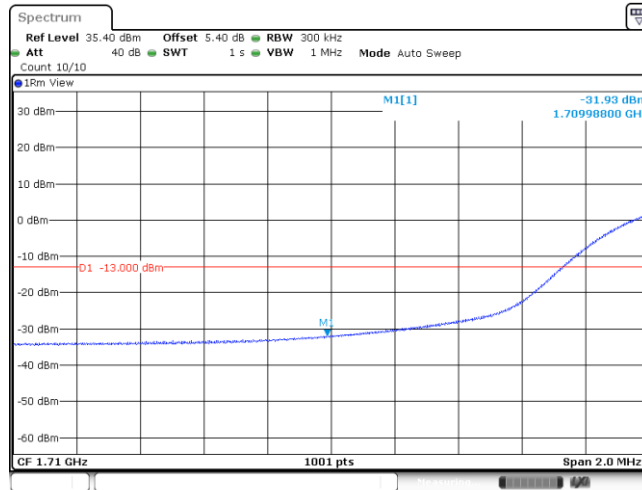


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Date: 4 AUG 2019 04:16:06

**Band66\_20MHz\_QPSK\_132072\_100RB#0**

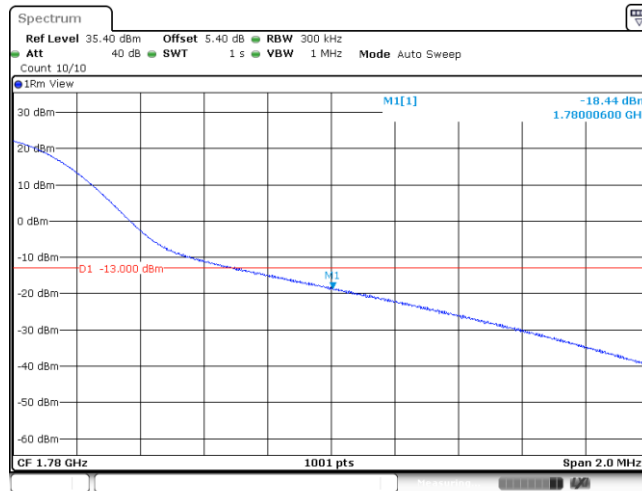


Date: 4 AUG 2019 04:16:45

**Band66\_20MHz\_QPSK\_132572\_1RB#99**

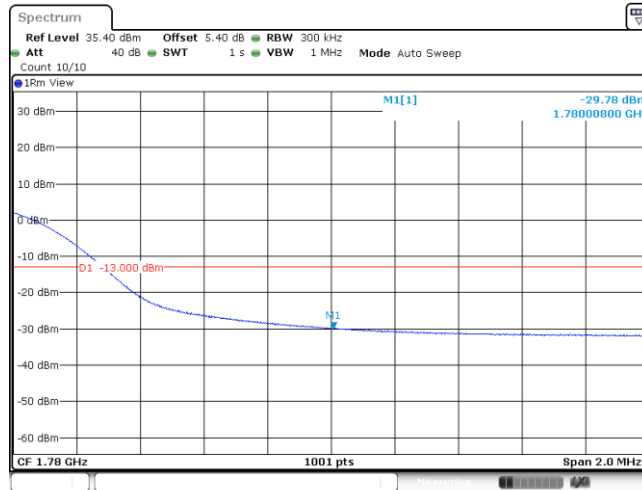


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Date: 4 AUG 2019 04:17:28

**Band66\_20MHz\_QPSK\_132572\_100RB#0**



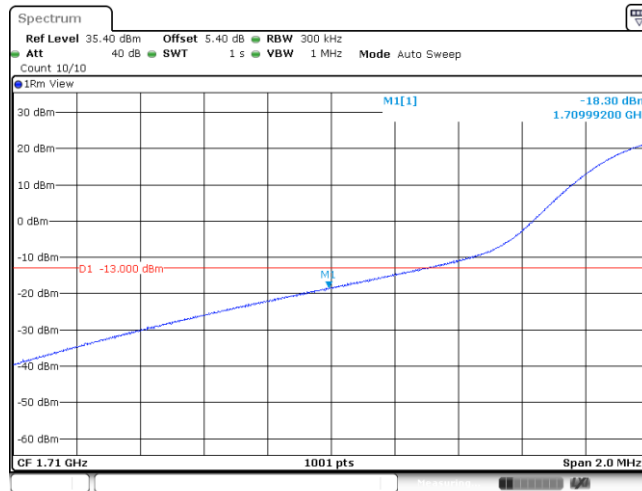
Date: 4 AUG 2019 04:18:07

**Band66\_20MHz\_16QAM\_132072\_1RB#0**



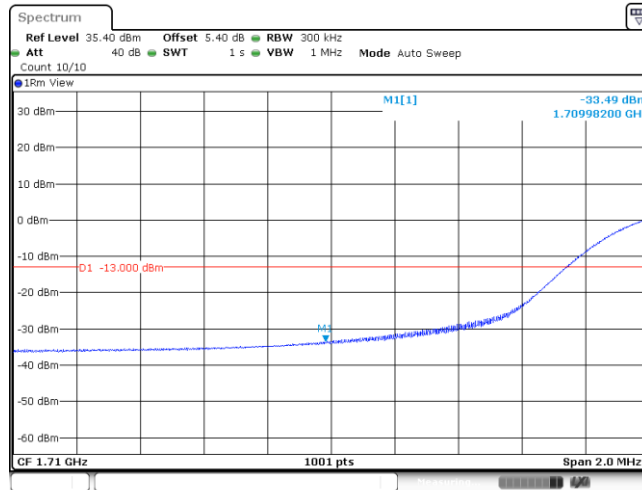
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Date: 4 AUG 2019 04:16:26

**Band66\_20MHz\_16QAM\_132072\_100RB#0**

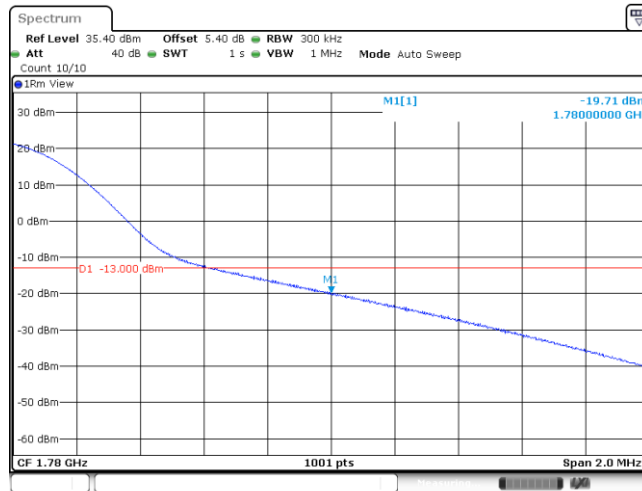


Date: 4 AUG 2019 04:17:05

**Band66\_20MHz\_16QAM\_132572\_1RB#99**

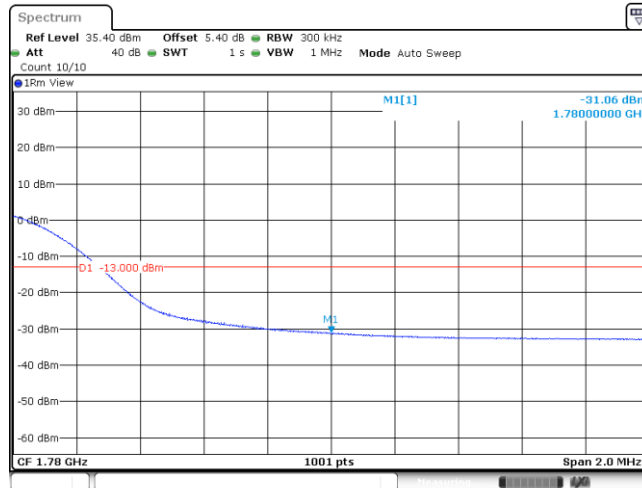


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Date: 4.AUG.2019 04:17:48

**Band66\_20MHz\_16QAM\_132572\_100RB#0**



Date: 4.AUG.2019 04:18:26



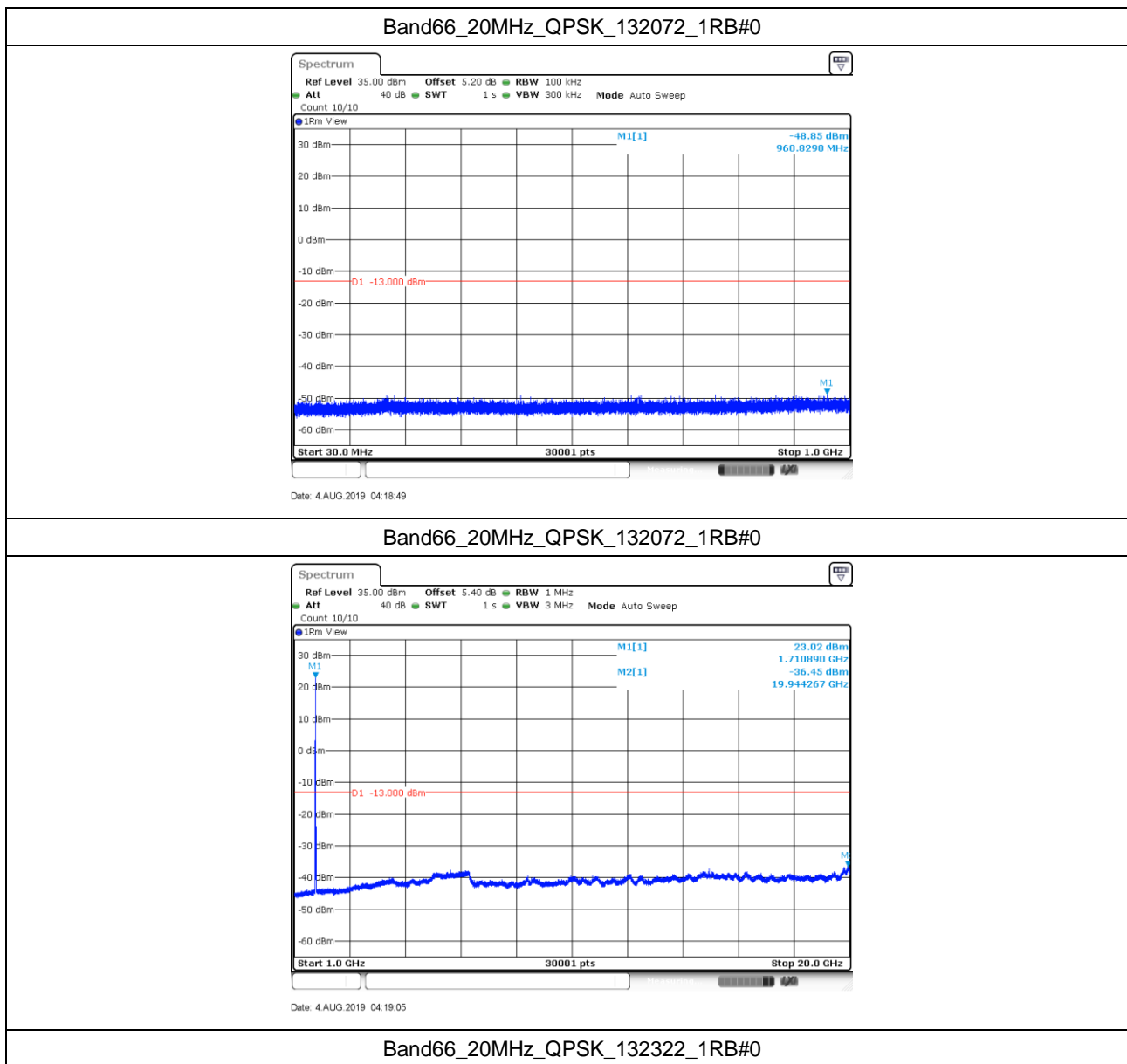
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## 6. Spurious Emission at Antenna Terminal

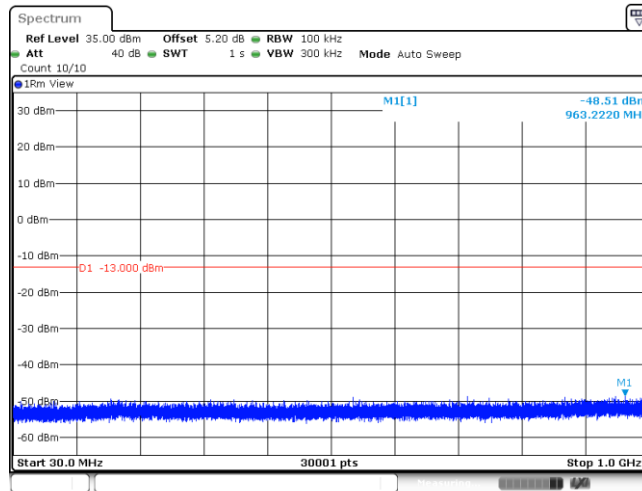
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots

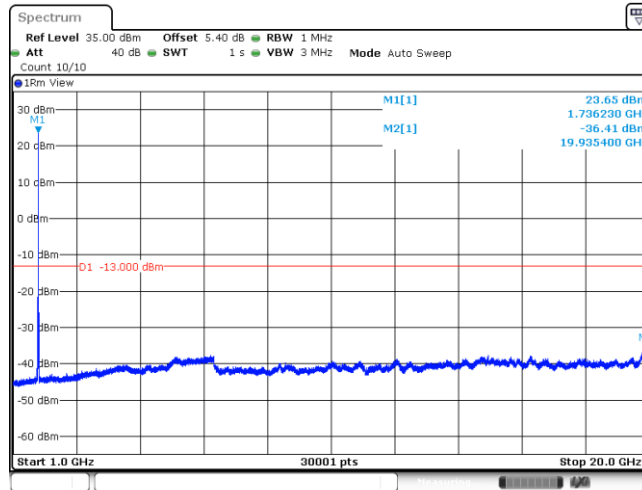


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Date: 4 AUG 2019 04:19:59

Band66\_20MHz\_QPSK\_132322\_1RB#0

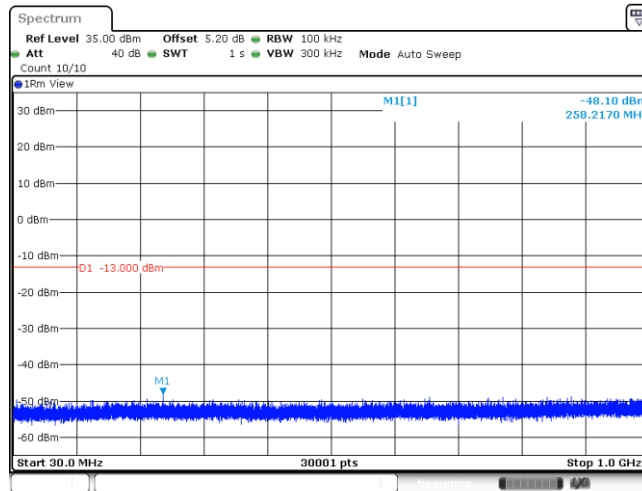


Date: 4 AUG 2019 04:20:15

Band66\_20MHz\_QPSK\_132572\_1RB#0

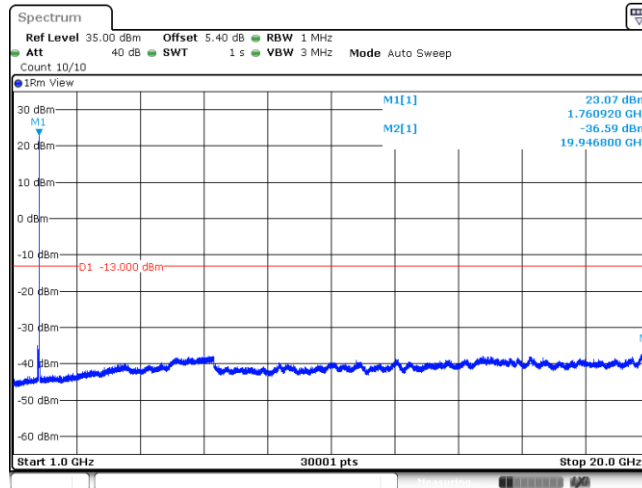


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Date: 4 AUG 2019 04:21:08

**Band66\_20MHz\_QPSK\_132572\_1RB#0**

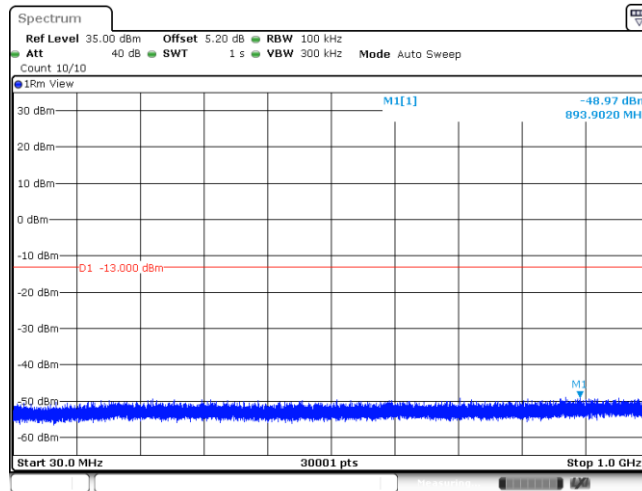


Date: 4 AUG 2019 04:21:24

**Band66\_20MHz\_16QAM\_132072\_1RB#0**

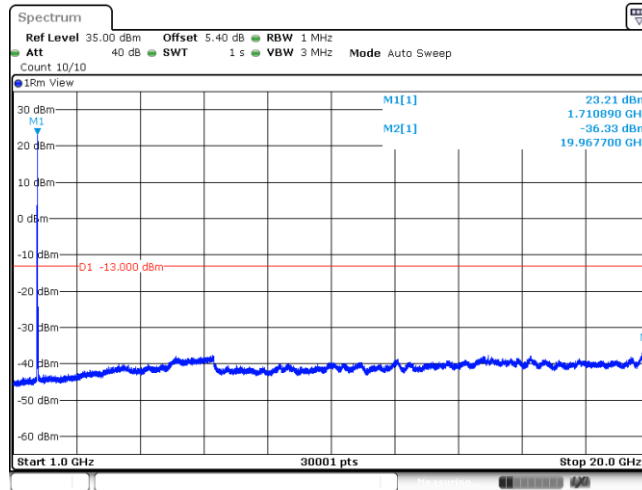


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Date: 4 AUG 2019 04:19:24

Band66\_20MHz\_16QAM\_132072\_1RB#0

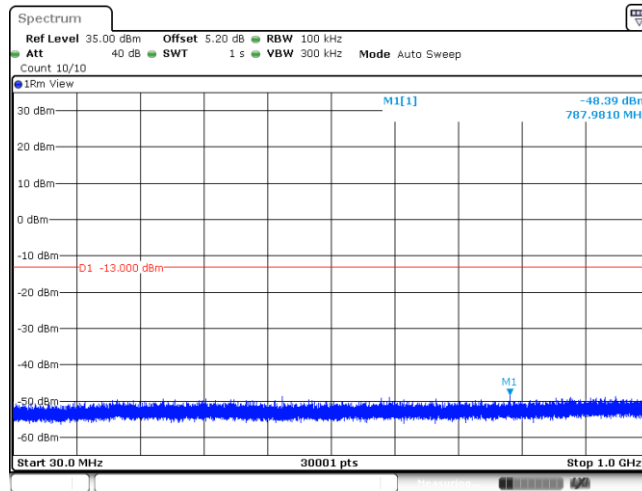


Date: 4 AUG 2019 04:19:40

Band66\_20MHz\_16QAM\_132322\_1RB#0

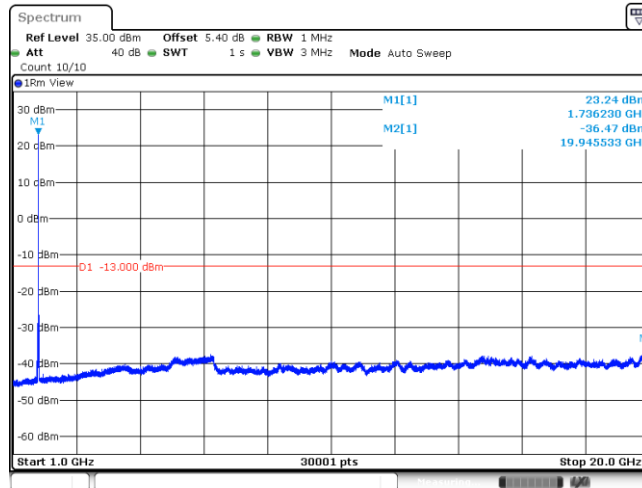


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Date: 4 AUG 2019 04:20:33

Band66\_20MHz\_16QAM\_132322\_1RB#0

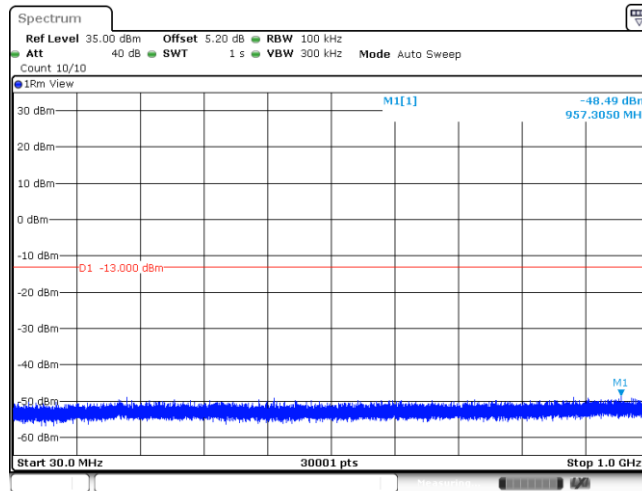


Date: 4 AUG 2019 04:20:49

Band66\_20MHz\_16QAM\_132572\_1RB#0

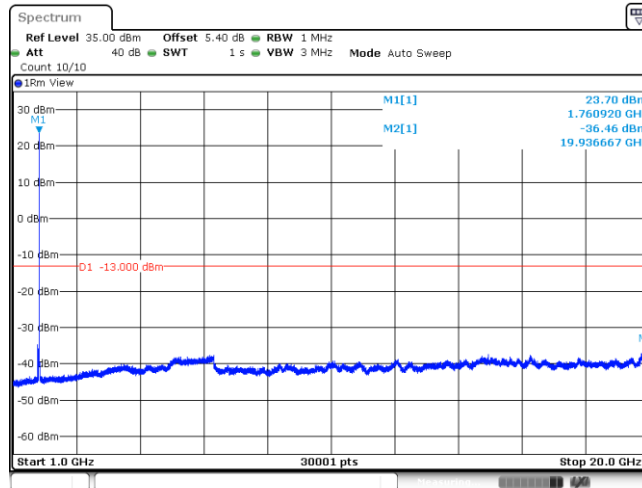


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Date: 4.AUG.2019 04:21:43

**Band66\_20MHz\_16QAM\_132572\_1RB#0**



Date: 4.AUG.2019 04:21:59



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = LTE Band 66

#### 7.1.1. Test Mode = LTE/TM1

##### 7.1.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 35.5778         | -80.09      | -13.00           | 67.09       | Vertical     |
| 52.5051         | -76.46      | -13.00           | 63.46       | Vertical     |
| 404.6812        | -82.61      | -13.00           | 69.61       | Vertical     |
| 2706.3413       | -37.63      | -13.00           | 24.63       | Vertical     |
| 14645.8882      | -41.49      | -13.00           | 28.49       | Vertical     |
| 17990.4997      | -32.26      | -13.00           | 19.26       | Vertical     |
| 35.5778         | -62.15      | -13.00           | 49.15       | Horizontal   |
| 53.8632         | -81.70      | -13.00           | 68.70       | Horizontal   |
| 412.0051        | -80.74      | -13.00           | 67.74       | Horizontal   |
| 2701.9404       | -36.57      | -13.00           | 23.57       | Horizontal   |
| 16385.9462      | -37.79      | -13.00           | 24.79       | Horizontal   |
| 17980.4994      | -37.10      | -13.00           | 24.10       | Horizontal   |

##### 7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 35.5293         | -84.03      | -13.00           | 71.03       | Vertical     |
| 52.9902         | -78.02      | -13.00           | 65.02       | Vertical     |
| 108.9134        | -82.77      | -13.00           | 69.77       | Vertical     |
| 2699.1398       | -37.57      | -13.00           | 24.57       | Vertical     |
| 14731.3910      | -41.97      | -13.00           | 28.97       | Vertical     |
| 17995.9999      | -32.52      | -13.00           | 19.52       | Vertical     |
| 35.5778         | -63.27      | -13.00           | 50.27       | Horizontal   |
| 52.9902         | -82.10      | -13.00           | 69.10       | Horizontal   |
| 406.8638        | -81.74      | -13.00           | 68.74       | Horizontal   |
| 2700.7401       | -36.45      | -13.00           | 23.45       | Horizontal   |
| 16386.4462      | -37.98      | -13.00           | 24.98       | Horizontal   |
| 17996.4999      | -37.32      | -13.00           | 24.32       | Horizontal   |



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**7.1.1.3. Test Channel = HCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 52.4566         | -75.79      | -13.00           | 62.79       | Vertical     |
| 109.6895        | -81.74      | -13.00           | 68.74       | Vertical     |
| 856.1903        | -81.61      | -13.00           | 68.61       | Vertical     |
| 2691.5383       | -37.90      | -13.00           | 24.90       | Vertical     |
| 14502.8834      | -42.40      | -13.00           | 29.40       | Vertical     |
| 17965.9989      | -32.61      | -13.00           | 19.61       | Vertical     |
| 35.5293         | -69.90      | -13.00           | 56.90       | Horizontal   |
| 52.5051         | -80.07      | -13.00           | 67.07       | Horizontal   |
| 407.9309        | -80.93      | -13.00           | 67.93       | Horizontal   |
| 2699.1398       | -36.42      | -13.00           | 23.42       | Horizontal   |
| 16396.4465      | -37.85      | -13.00           | 24.85       | Horizontal   |
| 17985.4995      | -37.54      | -13.00           | 24.54       | Horizontal   |

**Remark:**

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

| Voltage |           |            |         |              |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| BAND    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band66  | 20MHz     | QPSK       | 132072  | 100RB#0      | VL            | NT               | -1.00          | -0.000581       | ±2.5        | PASS    |
| Band66  | 20MHz     | QPSK       | 132072  | 100RB#0      | VN            | NT               | -10.80         | -0.006279       | ±2.5        | PASS    |
| Band66  | 20MHz     | QPSK       | 132072  | 100RB#0      | VH            | NT               | -7.50          | -0.004360       | ±2.5        | PASS    |
| Band66  | 20MHz     | QPSK       | 132322  | 100RB#0      | VL            | NT               | 1.30           | 0.000745        | ±2.5        | PASS    |
| Band66  | 20MHz     | QPSK       | 132322  | 100RB#0      | VN            | NT               | 4.80           | 0.002751        | ±2.5        | PASS    |
| Band66  | 20MHz     | QPSK       | 132322  | 100RB#0      | VH            | NT               | -2.50          | -0.001433       | ±2.5        | PASS    |
| Band66  | 20MHz     | QPSK       | 132572  | 100RB#0      | VL            | NT               | -6.90          | -0.003898       | ±2.5        | PASS    |
| Band66  | 20MHz     | QPSK       | 132572  | 100RB#0      | VN            | NT               | -0.50          | -0.000282       | ±2.5        | PASS    |
| Band66  | 20MHz     | QPSK       | 132572  | 100RB#0      | VH            | NT               | -14.40         | -0.008136       | ±2.5        | PASS    |
| Band66  | 20MHz     | 16QAM      | 132072  | 100RB#0      | VL            | NT               | 4.00           | 0.002326        | ±2.5        | PASS    |
| Band66  | 20MHz     | 16QAM      | 132072  | 100RB#0      | VN            | NT               | 3.00           | 0.001744        | ±2.5        | PASS    |
| Band66  | 20MHz     | 16QAM      | 132072  | 100RB#0      | VH            | NT               | 5.50           | 0.003198        | ±2.5        | PASS    |
| Band66  | 20MHz     | 16QAM      | 132322  | 100RB#0      | VL            | NT               | 4.90           | 0.002808        | ±2.5        | PASS    |
| Band66  | 20MHz     | 16QAM      | 132322  | 100RB#0      | VN            | NT               | 4.20           | 0.002407        | ±2.5        | PASS    |
| Band66  | 20MHz     | 16QAM      | 132322  | 100RB#0      | VH            | NT               | 2.20           | 0.001261        | ±2.5        | PASS    |
| Band66  | 20MHz     | 16QAM      | 132572  | 100RB#0      | VL            | NT               | -11.50         | -0.006497       | ±2.5        | PASS    |
| Band66  | 20MHz     | 16QAM      | 132572  | 100RB#0      | VN            | NT               | -10.00         | -0.005650       | ±2.5        | PASS    |
| Band66  | 20MHz     | 16QAM      | 132572  | 100RB#0      | VH            | NT               | -10.20         | -0.005763       | ±2.5        | PASS    |

### 8.2. Frequency Vs Temperature

| Temperature |           |            |         |              |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| BAND        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band66      | 20MHz     | QPSK       | 132072  | 100RB#0      | NV            | -30              | 6.30           | 0.003663        | ±2.5        | PASS    |
| Band66      | 20MHz     | QPSK       | 132072  | 100RB#0      | NV            | -20              | 1.00           | 0.000581        | ±2.5        | PASS    |
| Band66      | 20MHz     | QPSK       | 132072  | 100RB#0      | NV            | 0                | -3.00          | -0.001744       | ±2.5        | PASS    |
| Band66      | 20MHz     | QPSK       | 132072  | 100RB#0      | NV            | 10               | -7.00          | -0.004070       | ±2.5        | PASS    |
| Band66      | 20MHz     | QPSK       | 132072  | 100RB#0      | NV            | 20               | -10.10         | -0.005872       | ±2.5        | PASS    |
| Band66      | 20MHz     | QPSK       | 132322  | 100RB#0      | NV            | -30              | -8.50          | -0.004871       | ±2.5        | PASS    |
| Band66      | 20MHz     | QPSK       | 132322  | 100RB#0      | NV            | -20              | 5.50           | 0.003152        | ±2.5        | PASS    |



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|        |       |       |        |         |    |     |        |           |      |      |
|--------|-------|-------|--------|---------|----|-----|--------|-----------|------|------|
| Band66 | 20MHz | QPSK  | 132322 | 100RB#0 | NV | 0   | 1.00   | 0.000573  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK  | 132322 | 100RB#0 | NV | 10  | -3.40  | -0.001948 | ±2.5 | PASS |
| Band66 | 20MHz | QPSK  | 132322 | 100RB#0 | NV | 20  | -7.40  | -0.004241 | ±2.5 | PASS |
| Band66 | 20MHz | QPSK  | 132572 | 100RB#0 | NV | -30 | -3.70  | -0.002090 | ±2.5 | PASS |
| Band66 | 20MHz | QPSK  | 132572 | 100RB#0 | NV | -20 | -10.80 | -0.006102 | ±2.5 | PASS |
| Band66 | 20MHz | QPSK  | 132572 | 100RB#0 | NV | 0   | -17.30 | -0.009774 | ±2.5 | PASS |
| Band66 | 20MHz | QPSK  | 132572 | 100RB#0 | NV | 10  | -9.10  | -0.005141 | ±2.5 | PASS |
| Band66 | 20MHz | QPSK  | 132572 | 100RB#0 | NV | 20  | -15.90 | -0.008983 | ±2.5 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 100RB#0 | NV | -30 | 6.60   | 0.003837  | ±2.5 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 100RB#0 | NV | -20 | 6.50   | 0.003779  | ±2.5 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 100RB#0 | NV | 0   | 6.80   | 0.003953  | ±2.5 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 100RB#0 | NV | 10  | -8.50  | -0.004942 | ±2.5 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 100RB#0 | NV | 20  | -7.50  | -0.004360 | ±2.5 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 100RB#0 | NV | -30 | 3.10   | 0.001777  | ±2.5 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 100RB#0 | NV | -20 | 2.80   | 0.001605  | ±2.5 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 100RB#0 | NV | 0   | 5.60   | 0.003209  | ±2.5 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 100RB#0 | NV | 10  | 7.60   | 0.004355  | ±2.5 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 100RB#0 | NV | 20  | -9.20  | -0.005272 | ±2.5 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 100RB#0 | NV | -30 | -11.10 | -0.006271 | ±2.5 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 100RB#0 | NV | -20 | -11.00 | -0.006215 | ±2.5 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 100RB#0 | NV | 0   | -9.50  | -0.005367 | ±2.5 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 100RB#0 | NV | 10  | -8.70  | -0.004915 | ±2.5 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 100RB#0 | NV | 20  | -8.60  | -0.004859 | ±2.5 | PASS |

The End



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