

# Appendix B

## E-UTRA Band 5

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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Config. | Result (dBm) | ERP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------|--------------|-----------|-------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0      | 23.25        | 21.63     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#2      | 23.31        | 21.69     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#5      | 23.34        | 21.72     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#0      | 23.28        | 21.66     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#1      | 23.32        | 21.7      | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#3      | 23.37        | 21.75     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0      | 22.27        | 20.65     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0      | 23.38        | 21.76     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#2      | 23.43        | 21.81     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#5      | 23.34        | 21.72     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#0      | 23.43        | 21.81     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#1      | 23.47        | 21.85     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#3      | 23.38        | 21.76     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0      | 22.44        | 20.82     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0      | 23.35        | 21.73     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#2      | 23.39        | 21.77     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#5      | 23.33        | 21.71     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 3RB#0      | 23.39        | 21.77     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 3RB#1      | 23.46        | 21.84     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 3RB#3      | 23.43        | 21.81     | 38.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0      | 22.40        | 20.78     | 38.45       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0      | 22.52        | 20.9      | 38.45       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#2      | 22.62        | 21        | 38.45       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#5      | 22.61        | 20.99     | 38.45       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#0      | 22.42        | 20.8      | 38.45       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#1      | 22.41        | 20.79     | 38.45       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#3      | 22.49        | 20.87     | 38.45       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0      | 21.31        | 19.69     | 38.45       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0      | 22.67        | 21.05     | 38.45       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#2      | 22.65        | 21.03     | 38.45       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#5      | 22.52        | 20.9      | 38.45       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#0      | 22.50        | 20.88     | 38.45       | PASS    |

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|       |        |       |       |        |       |       |       |      |
|-------|--------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#1  | 22.49 | 20.87 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#3  | 22.47 | 20.85 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0  | 21.52 | 19.9  | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0  | 22.63 | 21.01 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#2  | 22.62 | 21    | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#5  | 22.55 | 20.93 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#0  | 22.49 | 20.87 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#1  | 22.58 | 20.96 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#3  | 22.48 | 20.86 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | 21.48 | 19.86 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20407 | 1RB#0  | 23.03 | 21.41 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20407 | 1RB#2  | 22.16 | 20.54 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20407 | 1RB#5  | 22.11 | 20.49 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20407 | 3RB#0  | 22.09 | 20.47 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20407 | 3RB#1  | 22.14 | 20.52 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20407 | 3RB#3  | 22.20 | 20.58 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20407 | 6RB#0  | 21.00 | 19.38 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20525 | 1RB#0  | 22.16 | 20.54 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20525 | 1RB#2  | 22.26 | 20.64 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20525 | 1RB#5  | 22.14 | 20.52 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20525 | 3RB#0  | 22.18 | 20.56 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20525 | 3RB#1  | 22.26 | 20.64 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20525 | 3RB#3  | 22.16 | 20.54 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20525 | 6RB#0  | 21.12 | 19.5  | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20643 | 1RB#0  | 22.27 | 20.65 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20643 | 1RB#2  | 22.27 | 20.65 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20643 | 1RB#5  | 22.19 | 20.57 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20643 | 3RB#0  | 22.21 | 20.59 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20643 | 3RB#1  | 22.28 | 20.66 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20643 | 3RB#3  | 22.25 | 20.63 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20643 | 6RB#0  | 21.14 | 19.52 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#0  | 23.32 | 21.7  | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#8  | 23.40 | 21.78 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#14 | 23.36 | 21.74 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#0  | 22.42 | 20.8  | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#4  | 22.47 | 20.85 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#7  | 22.42 | 20.8  | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | 22.44 | 20.82 | 38.45 | PASS |

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|       |      |       |       |        |       |       |       |      |
|-------|------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 3MHz | QPSK  | 20525 | 1RB#0  | 23.42 | 21.8  | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 1RB#8  | 23.43 | 21.81 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 1RB#14 | 23.40 | 21.78 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 8RB#0  | 22.51 | 20.89 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 8RB#4  | 22.51 | 20.89 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 8RB#7  | 22.43 | 20.81 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 15RB#0 | 22.46 | 20.84 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#0  | 23.37 | 21.75 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#8  | 23.44 | 21.82 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#14 | 23.38 | 21.76 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 8RB#0  | 22.40 | 20.78 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 8RB#4  | 22.49 | 20.87 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 8RB#7  | 22.45 | 20.83 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | 22.42 | 20.8  | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0  | 22.57 | 20.95 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#8  | 22.70 | 21.08 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#14 | 22.54 | 20.92 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#0  | 21.52 | 19.9  | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#4  | 21.52 | 19.9  | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#7  | 21.49 | 19.87 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 21.45 | 19.83 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0  | 22.72 | 21.1  | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#8  | 22.71 | 21.09 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#14 | 22.62 | 21    | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#0  | 21.57 | 19.95 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#4  | 21.59 | 19.97 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#7  | 21.50 | 19.88 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 21.50 | 19.88 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0  | 22.62 | 21    | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#8  | 22.66 | 21.04 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#14 | 22.64 | 21.02 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#0  | 21.45 | 19.83 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#4  | 21.54 | 19.92 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#7  | 21.51 | 19.89 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 21.49 | 19.87 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20415 | 1RB#0  | 22.15 | 20.53 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20415 | 1RB#8  | 22.20 | 20.58 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20415 | 1RB#14 | 22.21 | 20.59 | 38.45 | PASS |

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|       |      |       |       |         |       |       |       |      |
|-------|------|-------|-------|---------|-------|-------|-------|------|
| Band5 | 3MHz | 64QAM | 20415 | 8RB#0   | 21.22 | 19.6  | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20415 | 8RB#4   | 21.16 | 19.54 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20415 | 8RB#7   | 21.18 | 19.56 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20415 | 15RB#0  | 21.09 | 19.47 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20525 | 1RB#0   | 22.26 | 20.64 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20525 | 1RB#8   | 22.25 | 20.63 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20525 | 1RB#14  | 22.27 | 20.65 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20525 | 8RB#0   | 21.19 | 19.57 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20525 | 8RB#4   | 21.24 | 19.62 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20525 | 8RB#7   | 21.17 | 19.55 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20525 | 15RB#0  | 21.21 | 19.59 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20635 | 1RB#0   | 22.23 | 20.61 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20635 | 1RB#8   | 22.37 | 20.75 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20635 | 1RB#14  | 22.20 | 20.58 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20635 | 8RB#0   | 21.13 | 19.51 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20635 | 8RB#4   | 21.20 | 19.58 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20635 | 8RB#7   | 21.20 | 19.58 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20635 | 15RB#0  | 21.16 | 19.54 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#0   | 23.34 | 21.72 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#12  | 23.37 | 21.75 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#24  | 23.39 | 21.77 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#0  | 22.47 | 20.85 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#6  | 22.46 | 20.84 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#13 | 22.46 | 20.84 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0  | 22.45 | 20.83 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#0   | 23.44 | 21.82 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#12  | 23.42 | 21.8  | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#24  | 23.42 | 21.8  | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#0  | 22.51 | 20.89 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#6  | 22.49 | 20.87 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#13 | 22.44 | 20.82 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0  | 22.48 | 20.86 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#0   | 23.49 | 21.87 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#12  | 23.36 | 21.74 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#24  | 23.42 | 21.8  | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 12RB#0  | 22.49 | 20.87 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 12RB#6  | 22.45 | 20.83 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 12RB#13 | 22.53 | 20.91 | 38.45 | PASS |

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|       |      |       |       |         |       |       |       |      |
|-------|------|-------|-------|---------|-------|-------|-------|------|
| Band5 | 5MHz | QPSK  | 20625 | 25RB#0  | 22.50 | 20.88 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0   | 22.58 | 20.96 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#12  | 22.57 | 20.95 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24  | 22.62 | 21    | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#0  | 21.49 | 19.87 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#6  | 21.51 | 19.89 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#13 | 21.48 | 19.86 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0  | 21.50 | 19.88 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0   | 22.83 | 21.21 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#12  | 22.68 | 21.06 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#24  | 22.70 | 21.08 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#0  | 21.57 | 19.95 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#6  | 21.55 | 19.93 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#13 | 21.49 | 19.87 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0  | 21.52 | 19.9  | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0   | 22.85 | 21.23 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#12  | 22.61 | 20.99 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#24  | 22.59 | 20.97 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#0  | 21.58 | 19.96 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#6  | 21.43 | 19.81 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#13 | 21.48 | 19.86 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0  | 21.48 | 19.86 | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20425 | 1RB#0   | 22.22 | 20.6  | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20425 | 1RB#12  | 22.18 | 20.56 | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20425 | 1RB#24  | 22.17 | 20.55 | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20425 | 12RB#0  | 21.23 | 19.61 | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20425 | 12RB#6  | 21.18 | 19.56 | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20425 | 12RB#13 | 21.13 | 19.51 | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20425 | 25RB#0  | 21.14 | 19.52 | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20525 | 1RB#0   | 22.32 | 20.7  | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20525 | 1RB#12  | 22.29 | 20.67 | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20525 | 1RB#24  | 22.28 | 20.66 | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20525 | 12RB#0  | 21.23 | 19.61 | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20525 | 12RB#6  | 21.26 | 19.64 | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20525 | 12RB#13 | 21.20 | 19.58 | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20525 | 25RB#0  | 21.25 | 19.63 | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20625 | 1RB#0   | 22.37 | 20.75 | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20625 | 1RB#12  | 22.14 | 20.52 | 38.45 | PASS |
| Band5 | 5MHz | 64QAM | 20625 | 1RB#12  | 22.14 | 20.52 | 38.45 | PASS |

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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band5 | 5MHz  | 64QAM | 20625 | 1RB#24  | 22.34 | 20.72 | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20625 | 12RB#0  | 21.22 | 19.6  | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20625 | 12RB#6  | 21.14 | 19.52 | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20625 | 12RB#13 | 21.22 | 19.6  | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20625 | 25RB#0  | 21.22 | 19.6  | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0   | 23.26 | 21.64 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#24  | 23.26 | 21.64 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#49  | 23.35 | 21.73 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#0  | 22.39 | 20.77 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#12 | 22.40 | 20.78 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#25 | 22.42 | 20.8  | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0  | 22.34 | 20.72 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0   | 23.52 | 21.9  | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#24  | 23.42 | 21.8  | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#49  | 23.45 | 21.83 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#0  | 22.56 | 20.94 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#12 | 22.52 | 20.9  | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#25 | 22.49 | 20.87 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0  | 22.50 | 20.88 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0   | 23.44 | 21.82 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#24  | 23.45 | 21.83 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#49  | 23.41 | 21.79 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#0  | 22.56 | 20.94 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#12 | 22.56 | 20.94 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#25 | 22.51 | 20.89 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0  | 22.51 | 20.89 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0   | 22.52 | 20.9  | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24  | 22.58 | 20.96 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49  | 22.61 | 20.99 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#0  | 21.38 | 19.76 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#12 | 21.41 | 19.79 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#25 | 21.37 | 19.75 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0  | 21.37 | 19.75 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0   | 22.82 | 21.2  | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24  | 22.73 | 21.11 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49  | 22.74 | 21.12 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#0  | 21.55 | 19.93 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#12 | 21.51 | 19.89 | 38.45 | PASS |

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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band5 | 10MHz | 16QAM | 20525 | 25RB#25 | 21.43 | 19.81 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0  | 21.49 | 19.87 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0   | 22.63 | 21.01 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24  | 22.69 | 21.07 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49  | 22.57 | 20.95 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#0  | 21.56 | 19.94 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#12 | 21.54 | 19.92 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#25 | 21.48 | 19.86 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0  | 21.54 | 19.92 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 1RB#0   | 22.13 | 20.51 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 1RB#24  | 22.17 | 20.55 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 1RB#49  | 22.22 | 20.6  | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 25RB#0  | 21.13 | 19.51 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 25RB#12 | 21.09 | 19.47 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 25RB#25 | 21.15 | 19.53 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 50RB#0  | 21.05 | 19.43 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 1RB#0   | 22.38 | 20.76 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 1RB#24  | 22.27 | 20.65 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 1RB#49  | 22.37 | 20.75 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 25RB#0  | 21.22 | 19.6  | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 25RB#12 | 21.26 | 19.64 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 25RB#25 | 21.22 | 19.6  | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 50RB#0  | 21.20 | 19.58 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 1RB#0   | 22.26 | 20.64 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 1RB#24  | 22.28 | 20.66 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 1RB#49  | 22.26 | 20.64 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 25RB#0  | 21.28 | 19.66 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 25RB#12 | 21.30 | 19.68 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 25RB#25 | 21.23 | 19.61 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 50RB#0  | 21.27 | 19.65 | 38.45 | PASS |

## Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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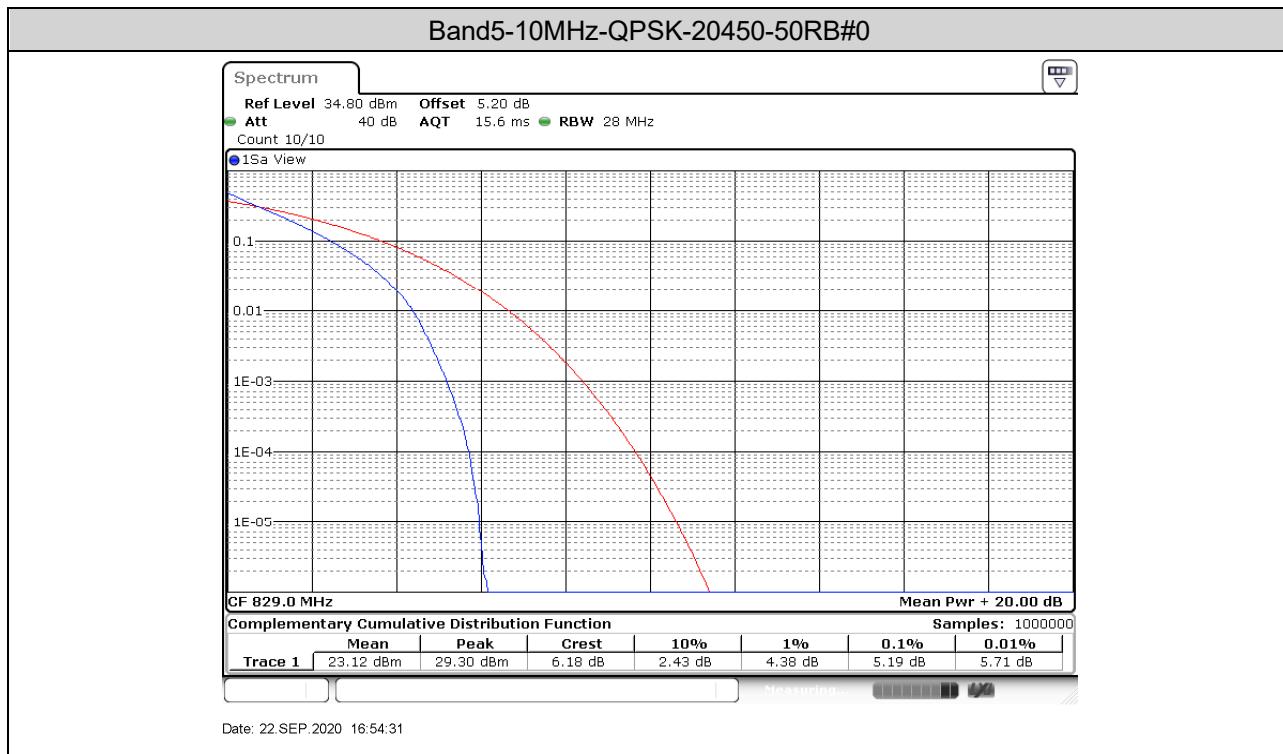
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## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | 5.19       | 13        | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0           | 5.30       | 13        | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | 5.25       | 13        | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0           | 5.94       | 13        | PASS    |
| Band5 | 10MHz     | 16QAM      | 20525   | 50RB#0           | 6.00       | 13        | PASS    |
| Band5 | 10MHz     | 16QAM      | 20600   | 50RB#0           | 6.00       | 13        | PASS    |
| Band5 | 10MHz     | 64QAM      | 20450   | 50RB#0           | 6.46       | 13        | PASS    |
| Band5 | 10MHz     | 64QAM      | 20525   | 50RB#0           | 6.52       | 13        | PASS    |
| Band5 | 10MHz     | 64QAM      | 20600   | 50RB#0           | 6.49       | 13        | PASS    |

### 2.2. Test Plots

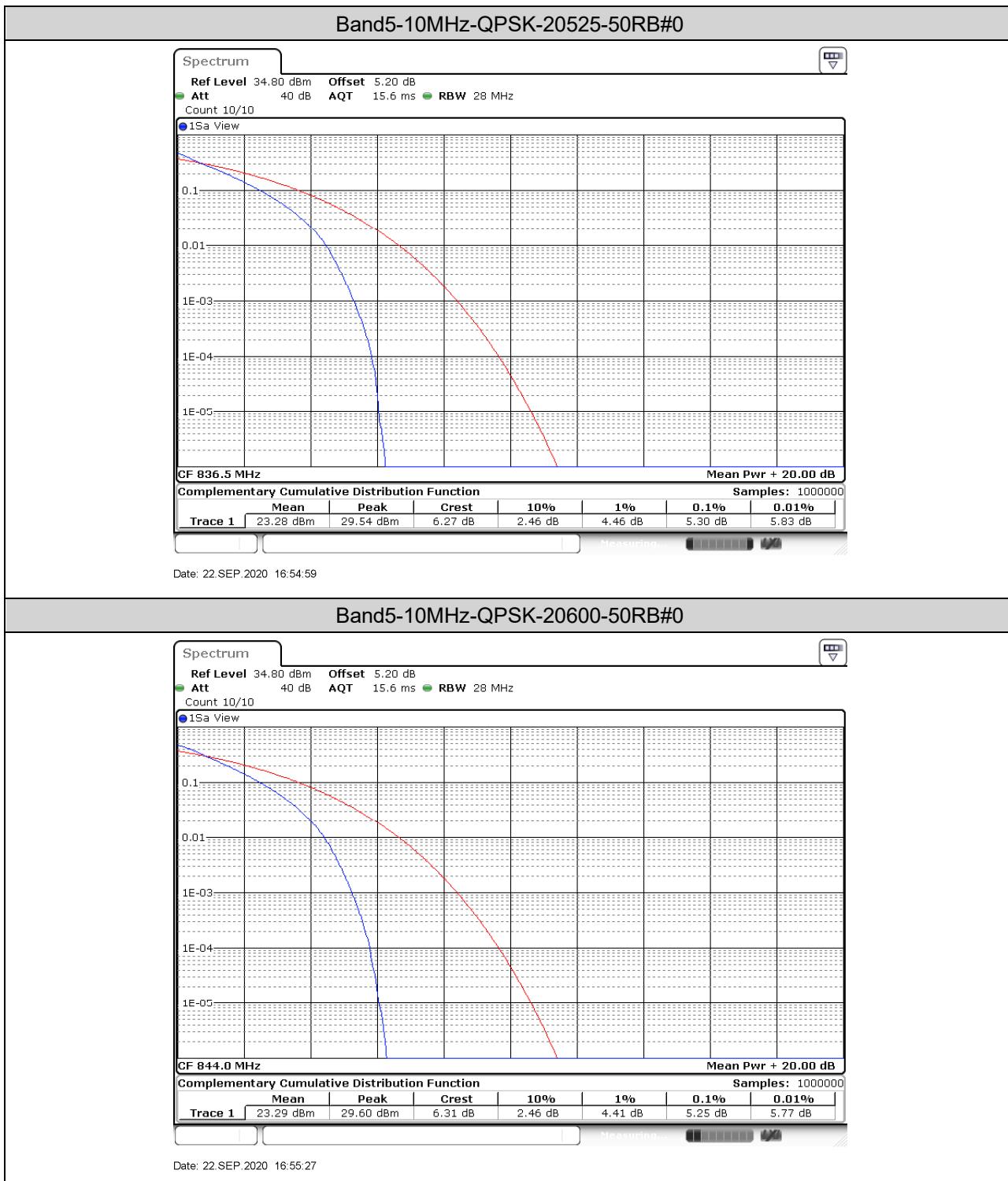


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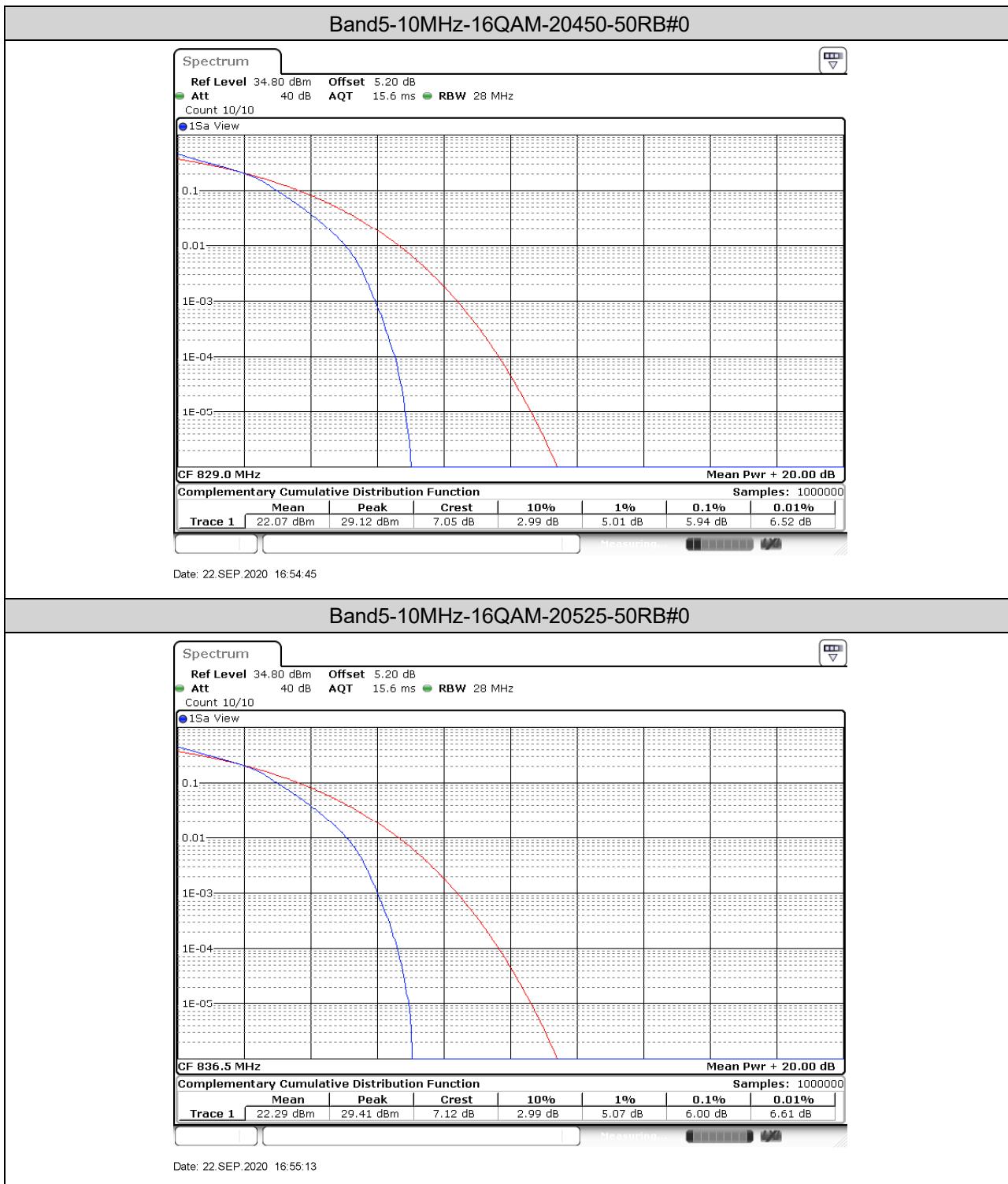


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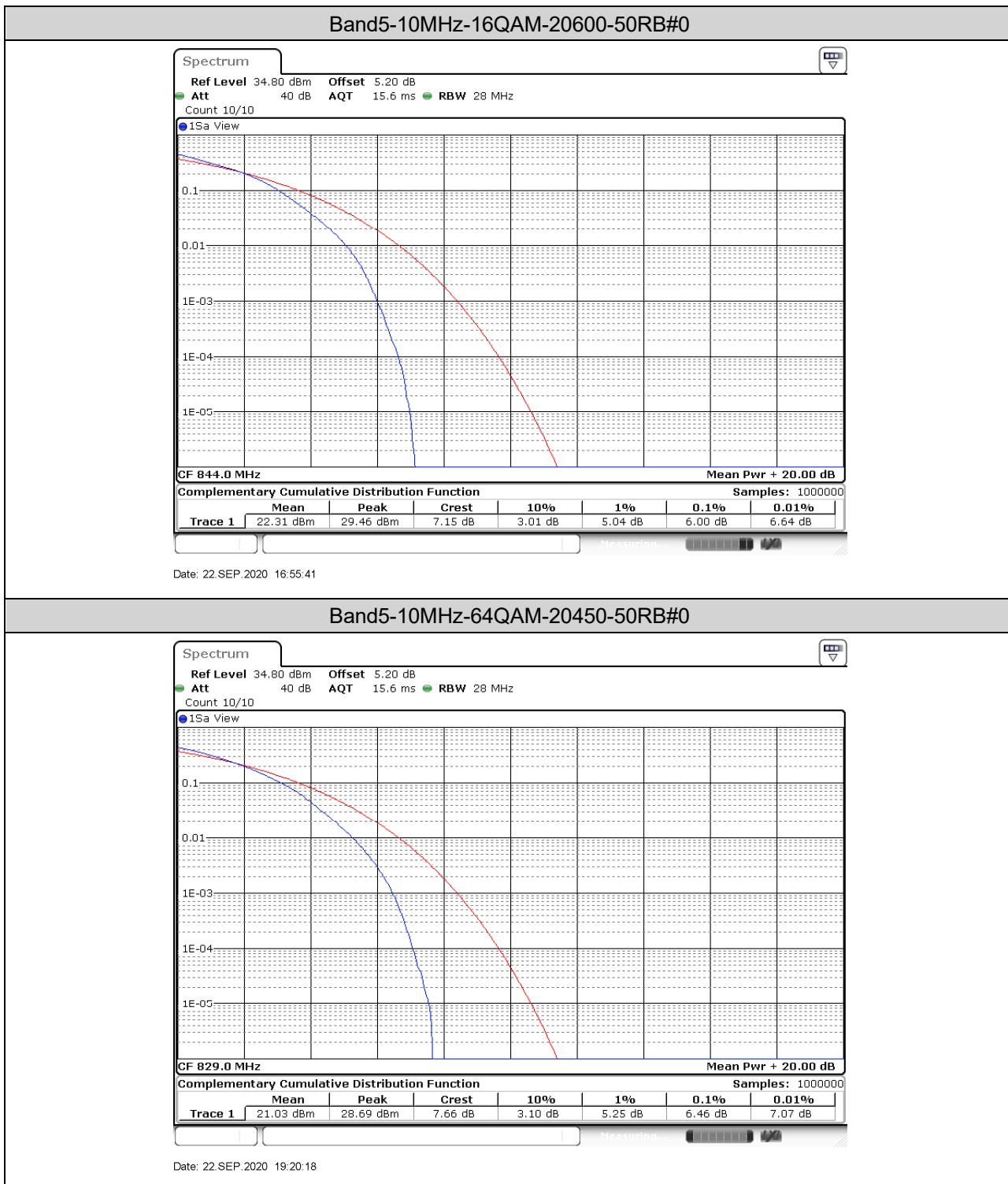
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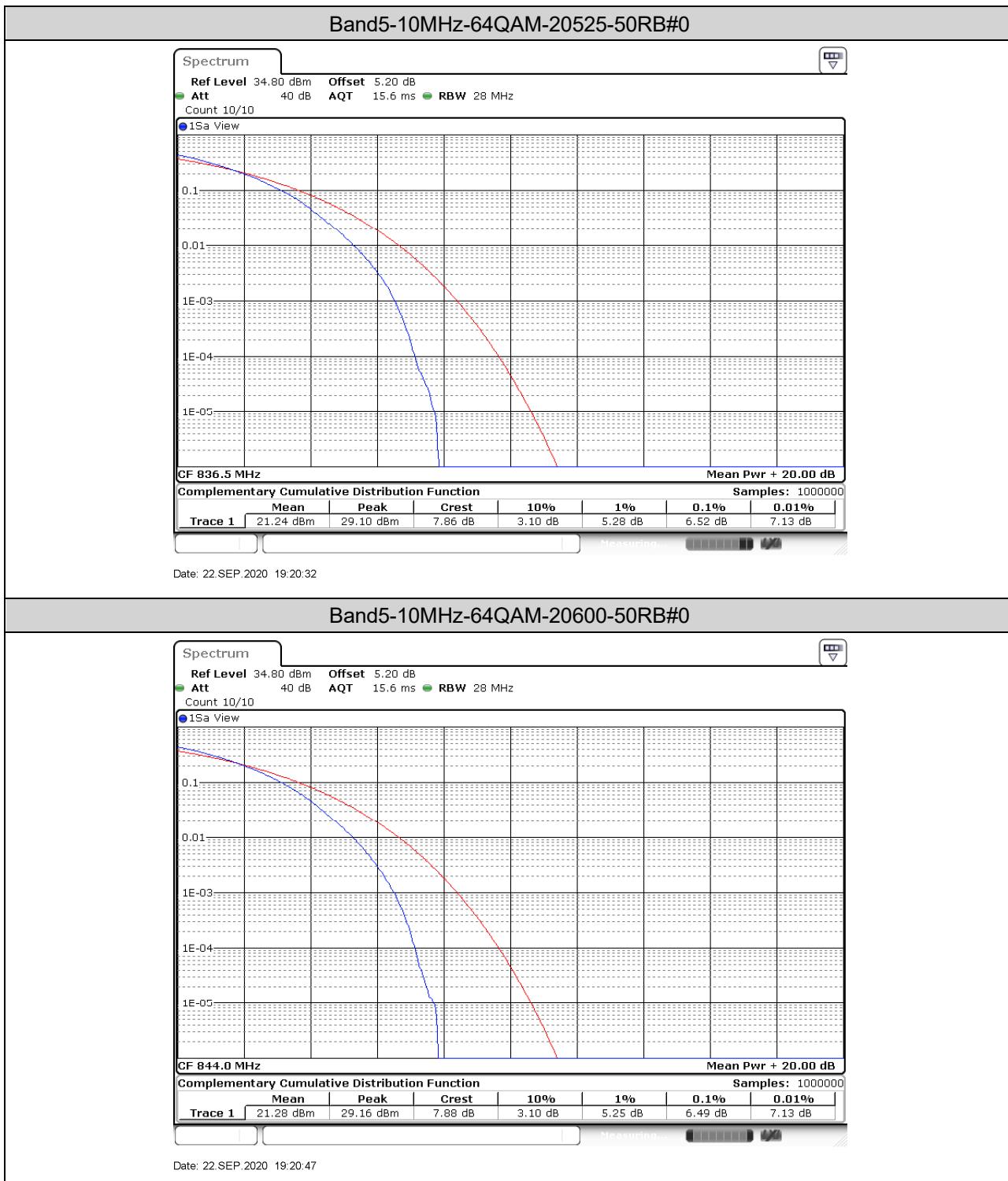




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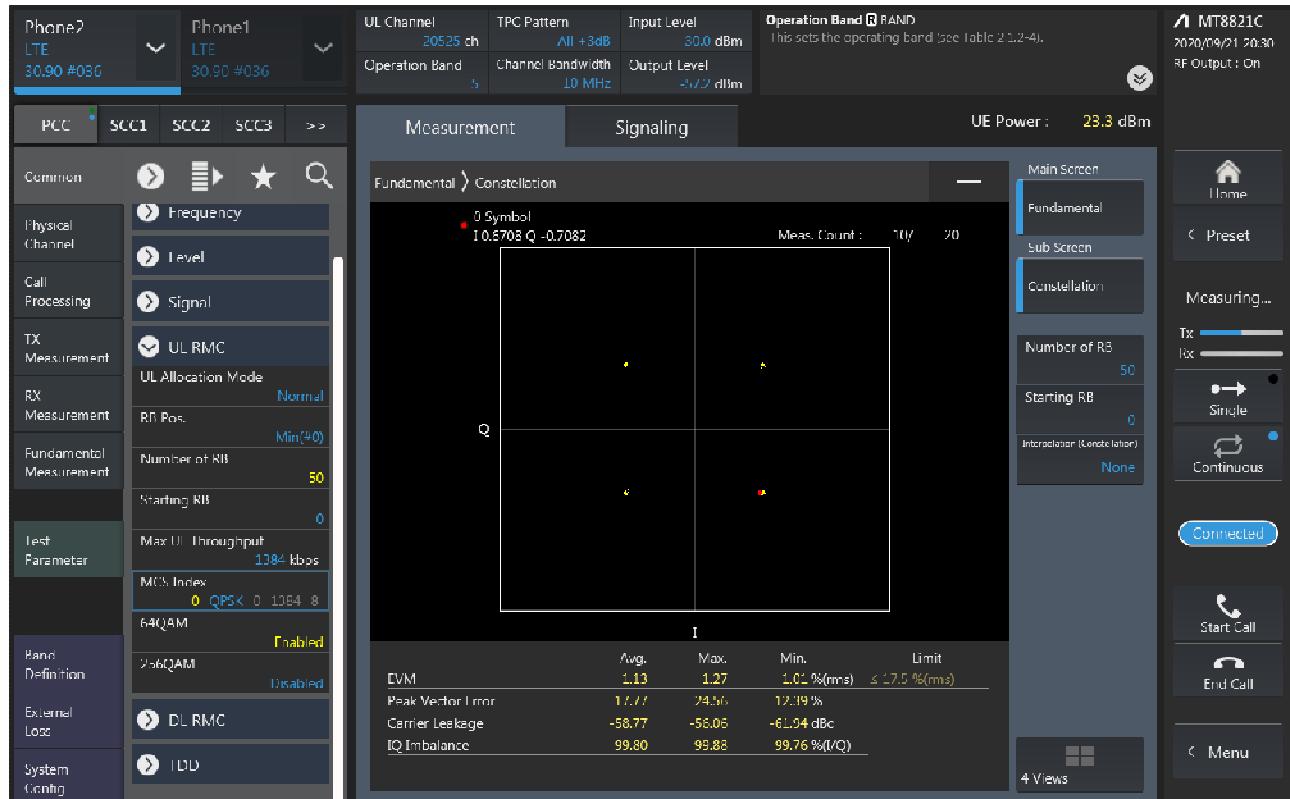


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### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 10MHz

##### 3.1.1. Test Channel = MCH



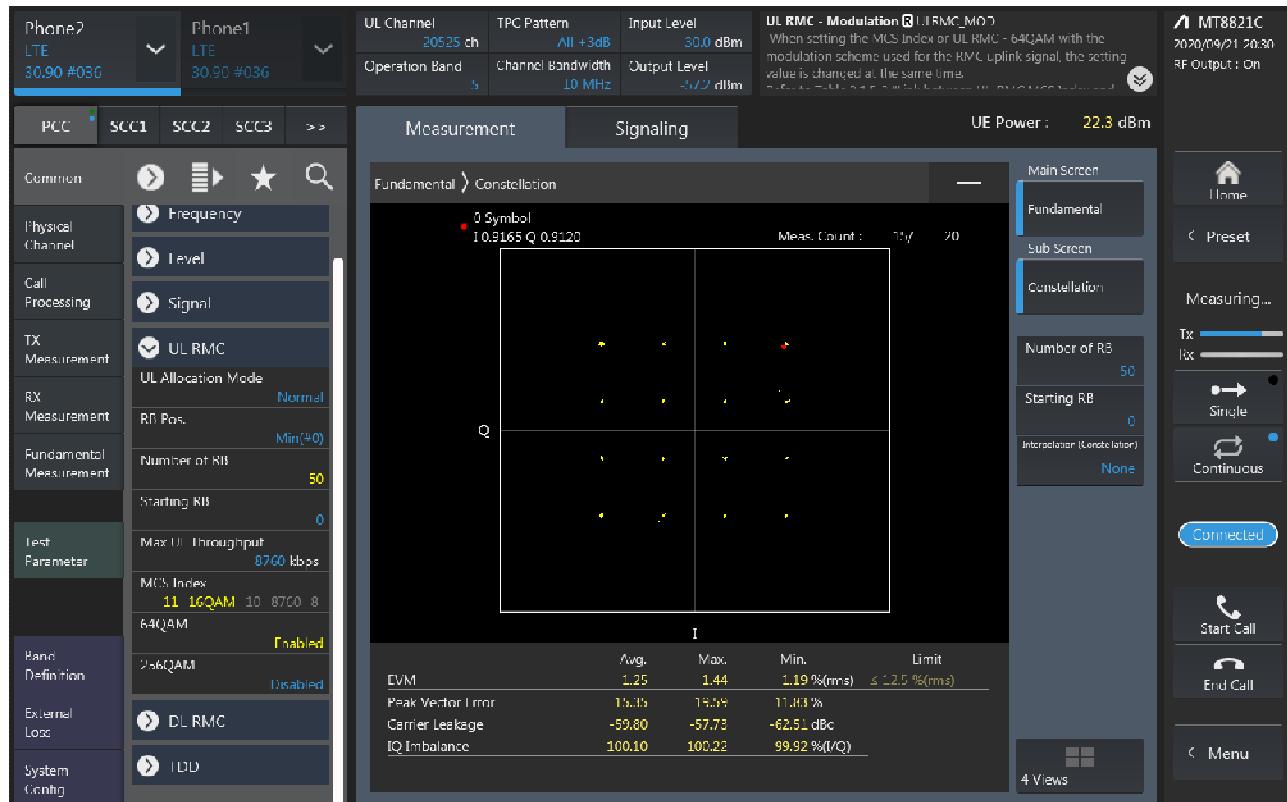
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## 3.2. Test Mode = LTE /TM2 10MHz

### 3.2.1. Test Channel = MCH

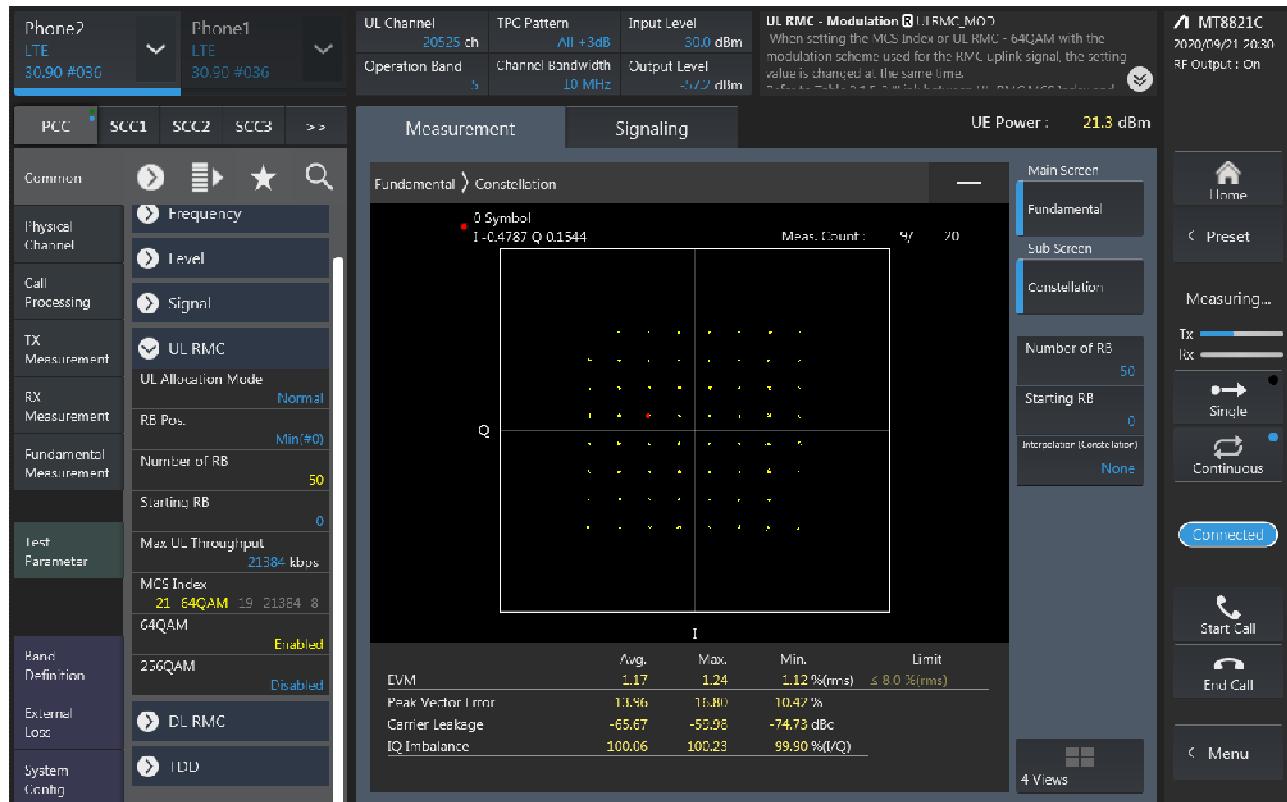


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### 3.3. Test Mode = LTE /TM3 10MHz

#### 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 |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 1.085                    | 1.233                | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 1.091                    | 1.236                | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 1.085                    | 1.233                | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 1.085                    | 1.236                | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 1.085                    | 1.236                | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 1.085                    | 1.236                | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20407   | 6RB#0            | 1.094                    | 1.236                | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20525   | 6RB#0            | 1.094                    | 1.230                | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20643   | 6RB#0            | 1.094                    | 1.242                | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | 2.697                    | 3.006                | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 15RB#0           | 2.691                    | 2.994                | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | 2.691                    | 3.012                | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | 2.685                    | 2.982                | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 15RB#0           | 2.685                    | 2.982                | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | 2.685                    | 2.982                | PASS    |
| Band5 | 3MHz      | 64QAM      | 20415   | 15RB#0           | 2.691                    | 2.988                | PASS    |
| Band5 | 3MHz      | 64QAM      | 20525   | 15RB#0           | 2.685                    | 2.982                | PASS    |
| Band5 | 3MHz      | 64QAM      | 20635   | 15RB#0           | 2.685                    | 2.982                | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | 4.476                    | 4.900                | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 25RB#0           | 4.476                    | 4.890                | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 25RB#0           | 4.476                    | 4.910                | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | 4.486                    | 4.930                | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 25RB#0           | 4.486                    | 4.930                | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 25RB#0           | 4.496                    | 4.920                | PASS    |
| Band5 | 5MHz      | 64QAM      | 20425   | 25RB#0           | 4.476                    | 4.880                | PASS    |
| Band5 | 5MHz      | 64QAM      | 20525   | 25RB#0           | 4.476                    | 4.870                | PASS    |
| Band5 | 5MHz      | 64QAM      | 20625   | 25RB#0           | 4.476                    | 4.890                | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | 8.931                    | 9.660                | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0           | 8.931                    | 9.680                | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | 8.911                    | 9.680                | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0           | 8.911                    | 9.700                | PASS    |

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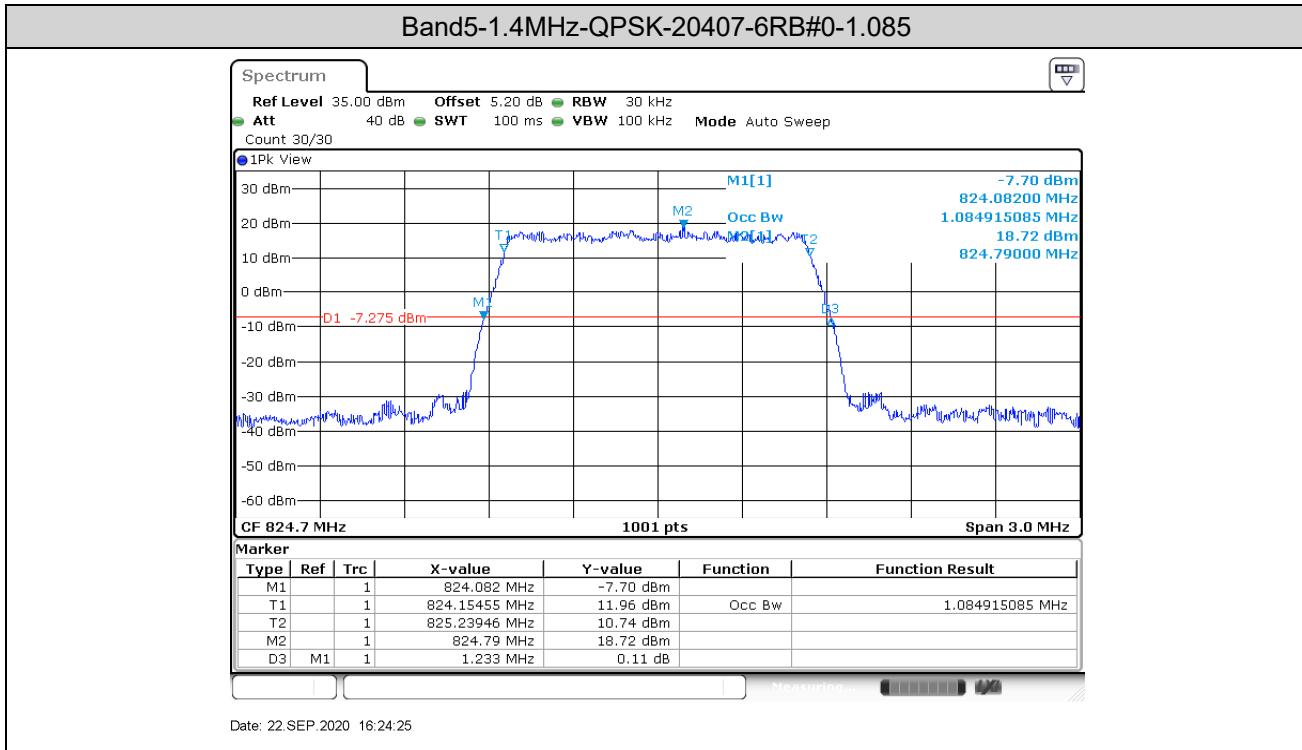
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|       |       |       |       |        |       |       |      |
|-------|-------|-------|-------|--------|-------|-------|------|
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 8.911 | 9.680 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 8.931 | 9.700 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 50RB#0 | 8.911 | 9.620 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 50RB#0 | 8.931 | 9.660 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 50RB#0 | 8.931 | 9.620 | PASS |

## 4.2. Test Plots



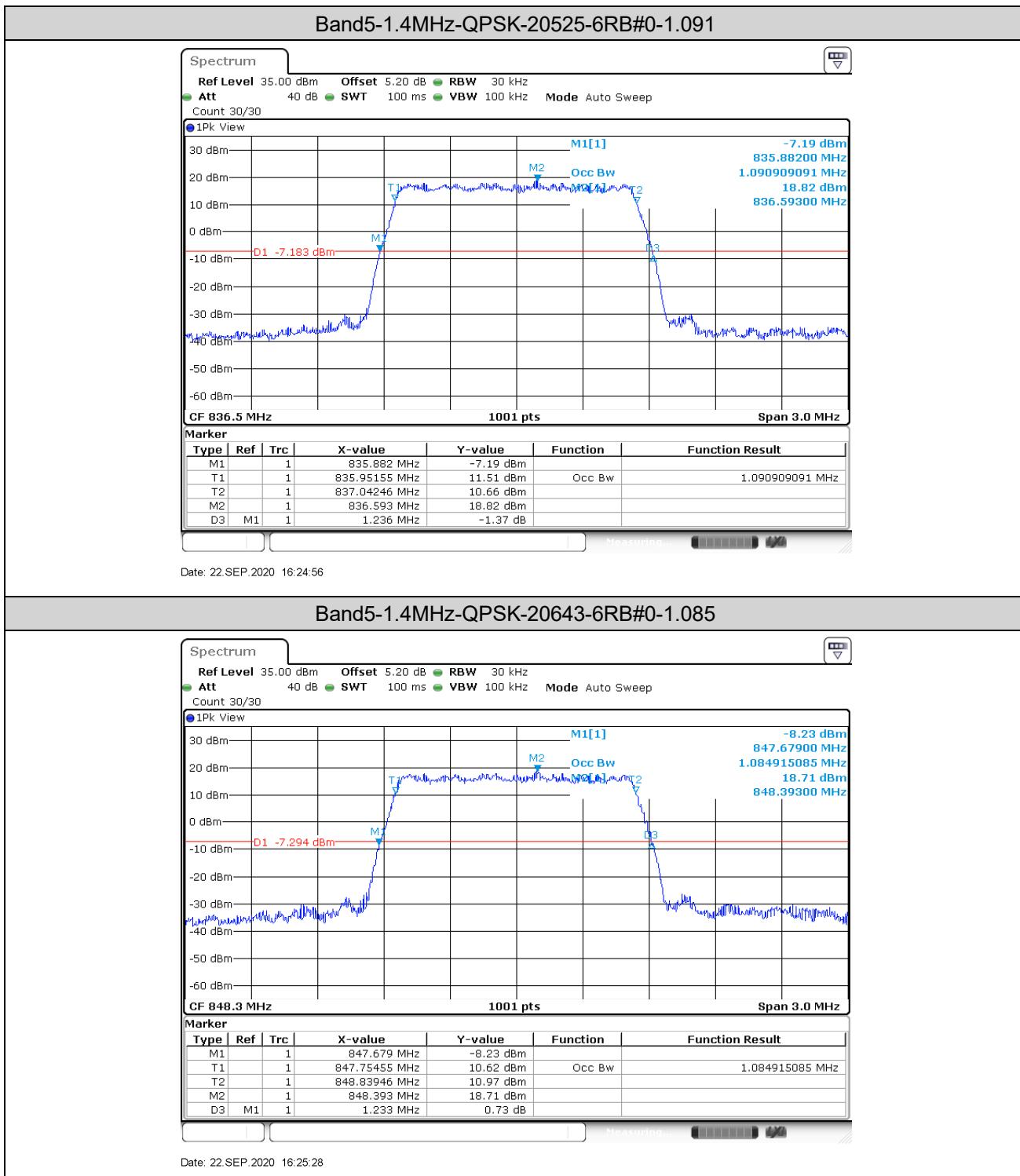
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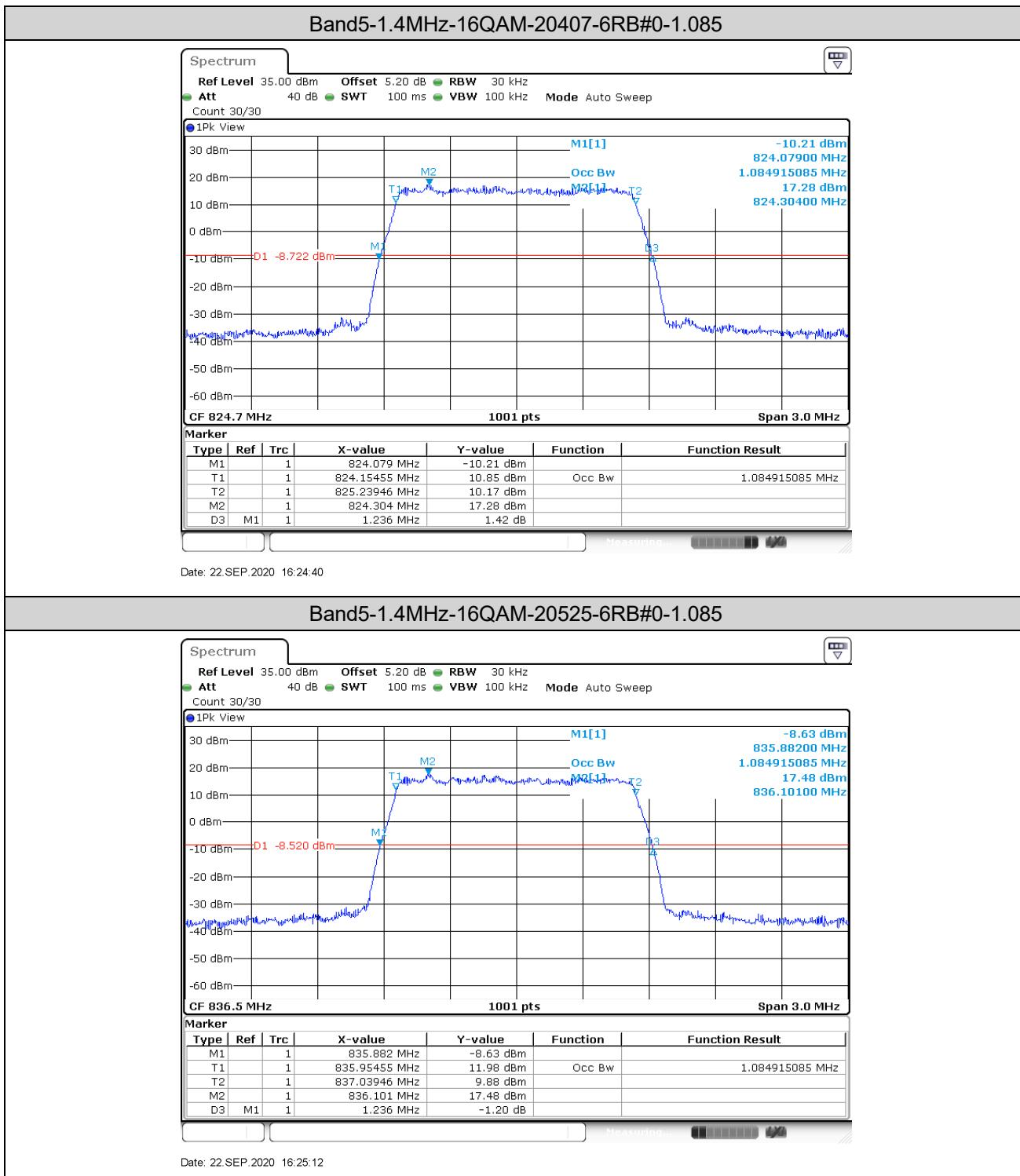


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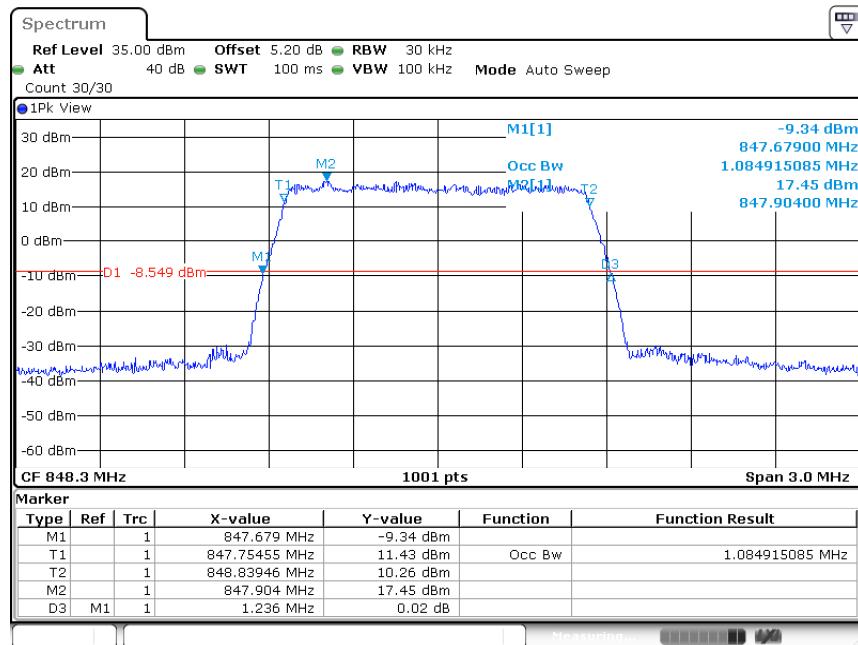
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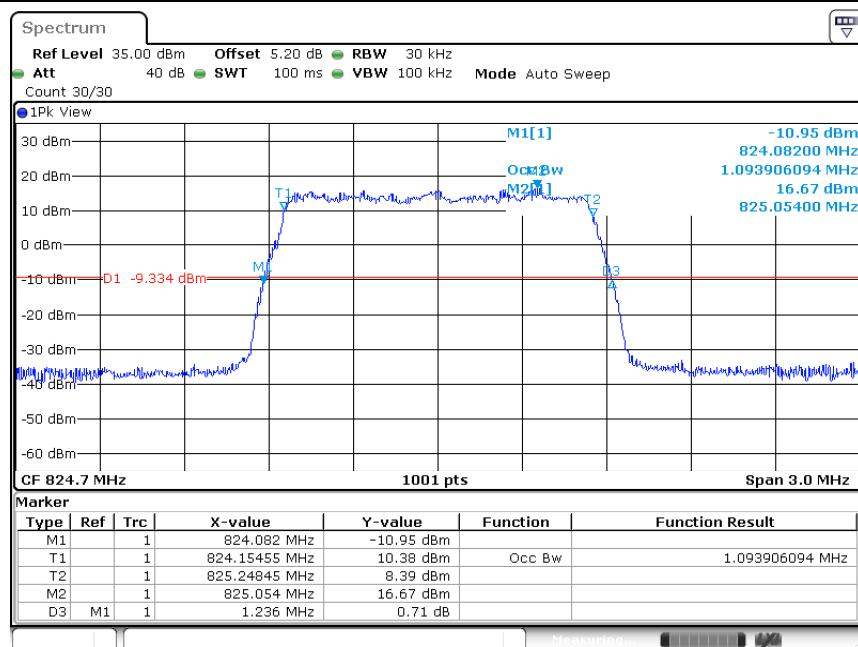
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Band5-1.4MHz-16QAM-20643-6RB#0-1.085



Date: 22 SEP 2020 16:25:44

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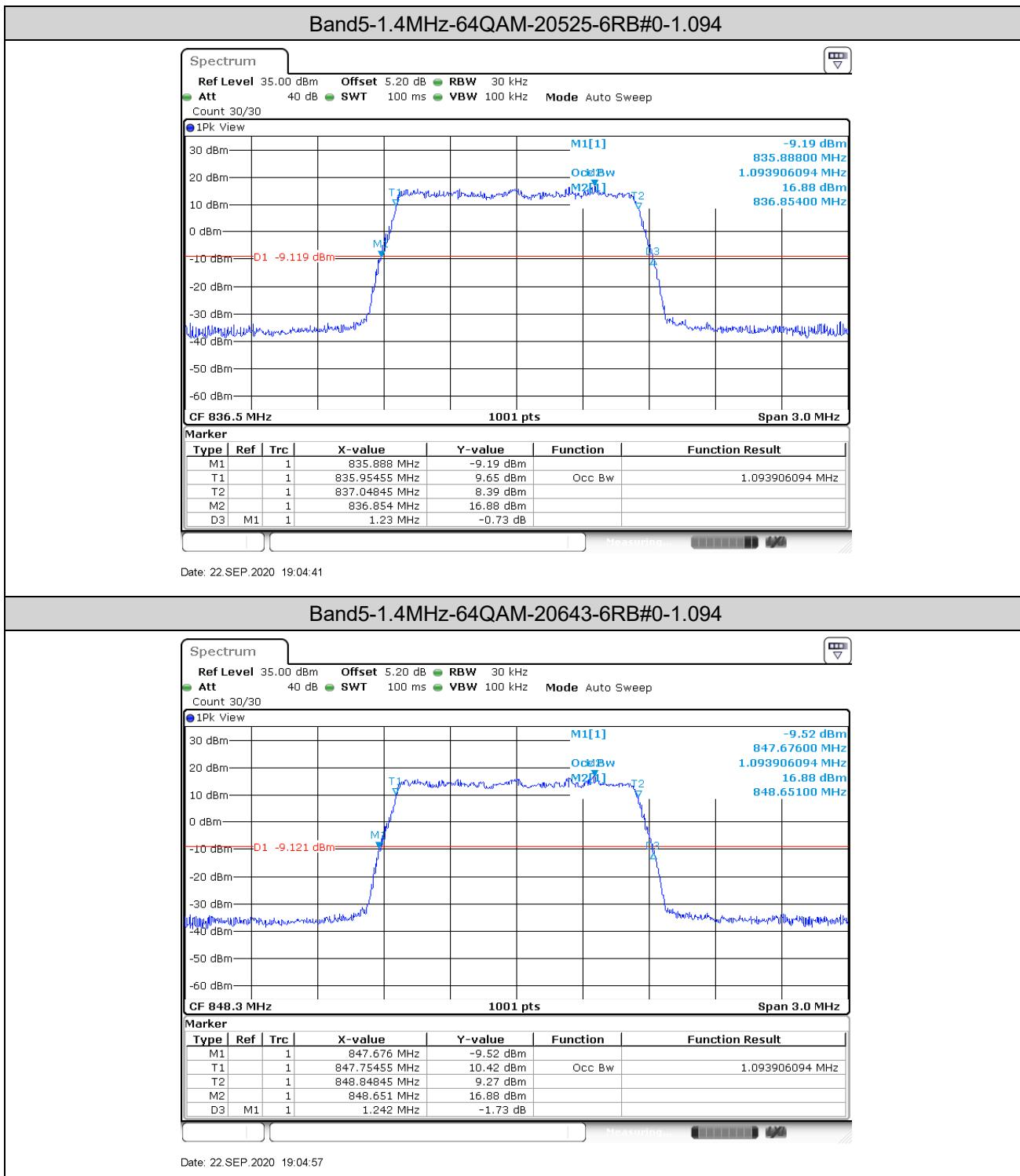
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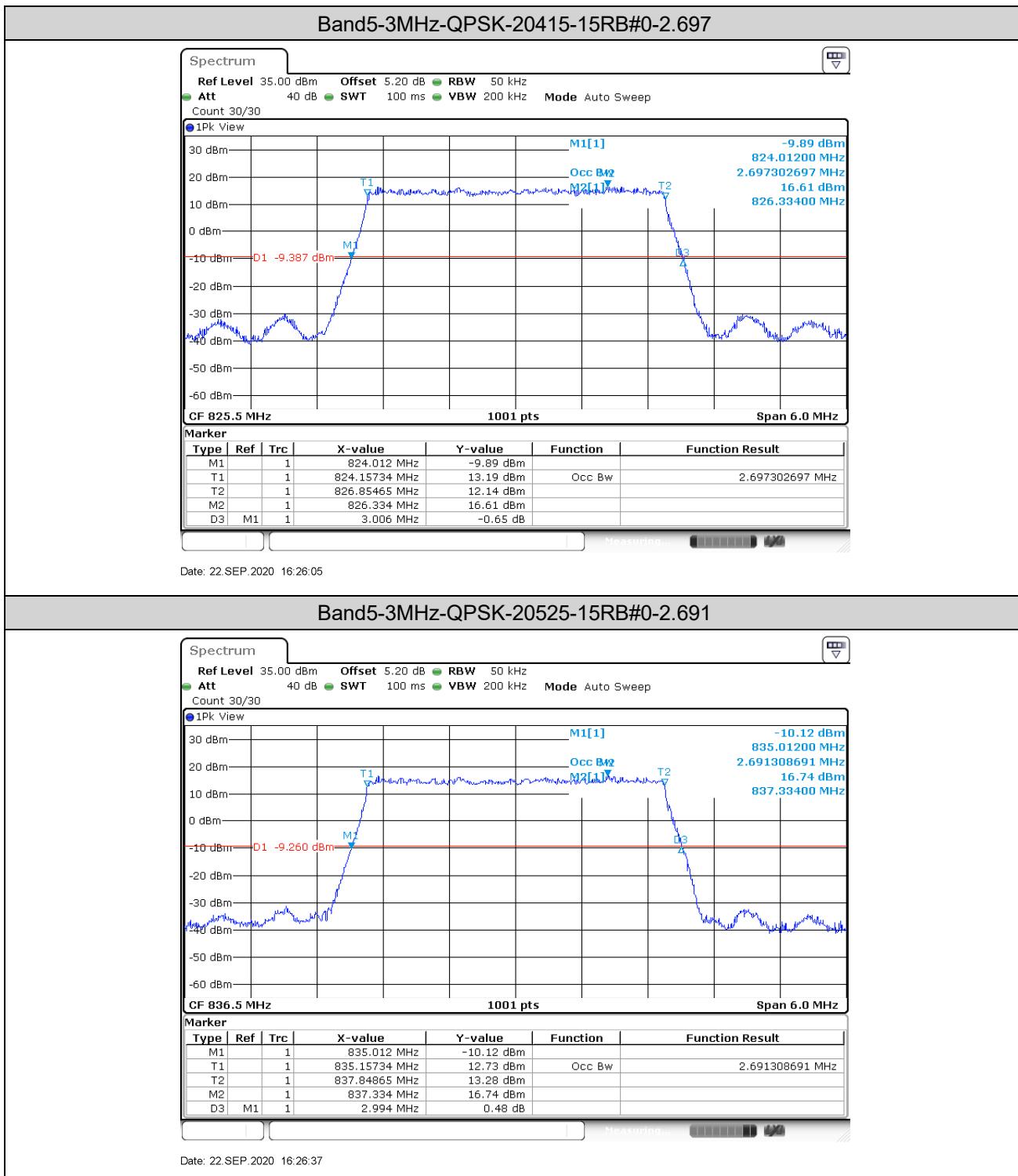
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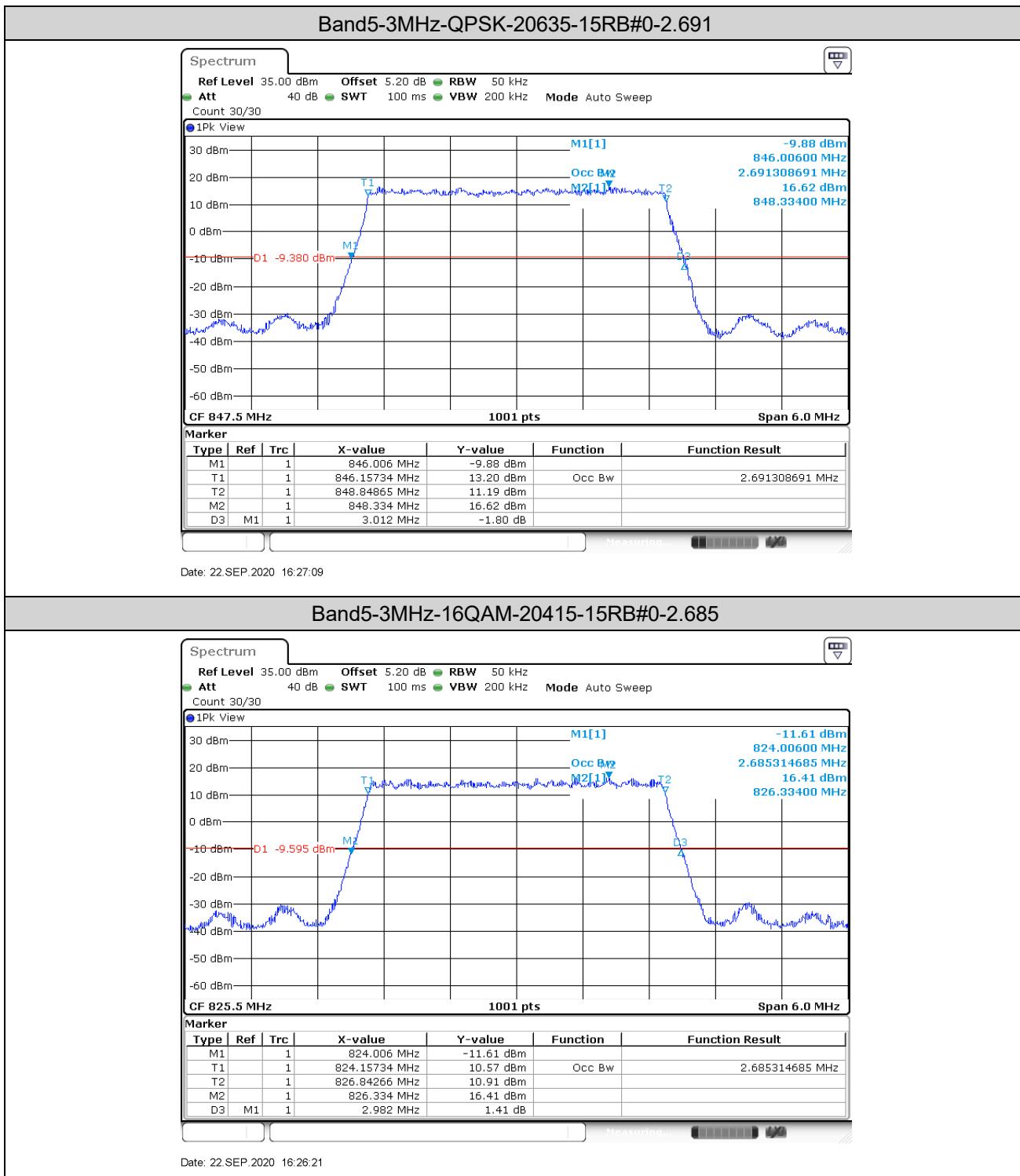


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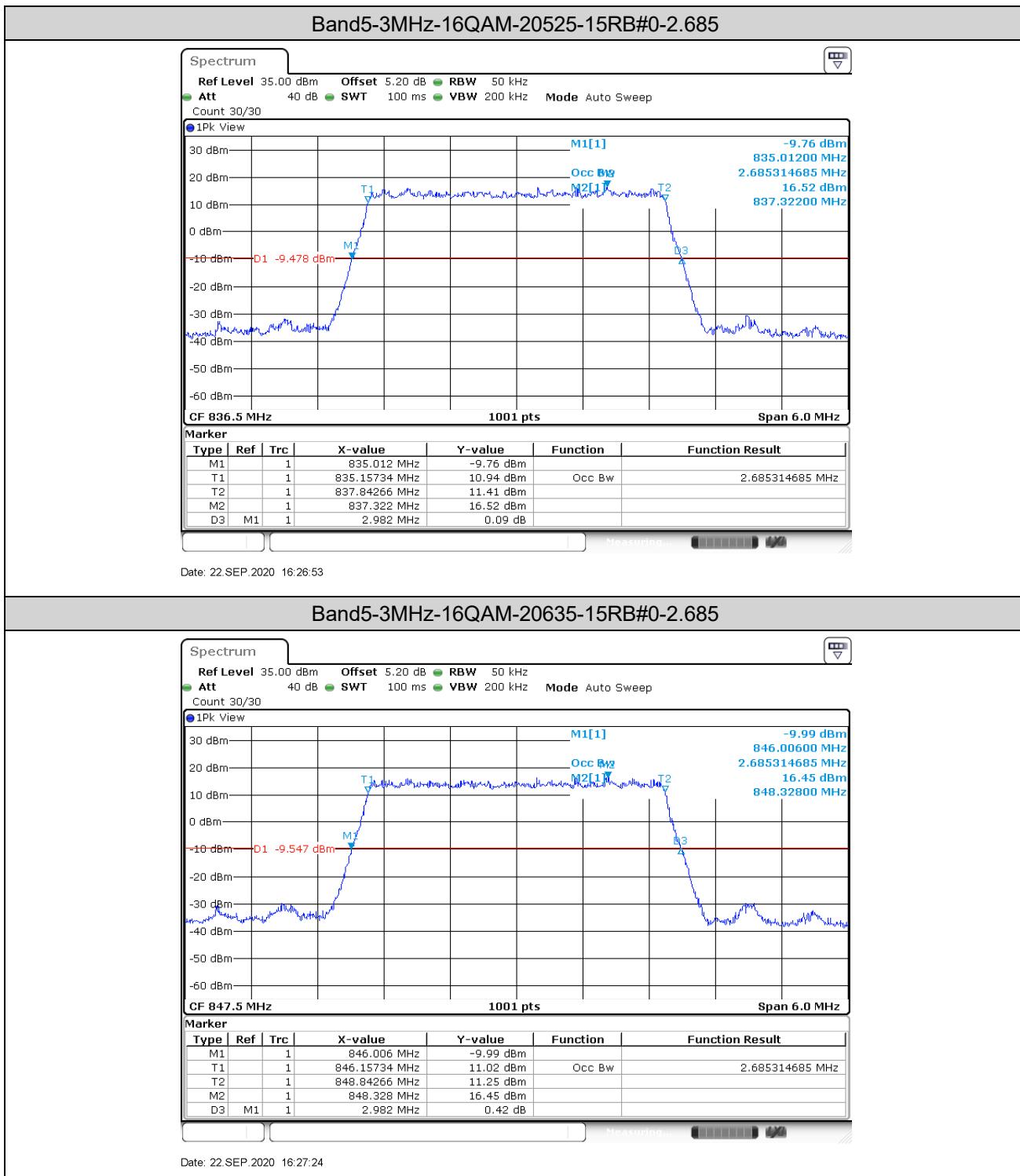


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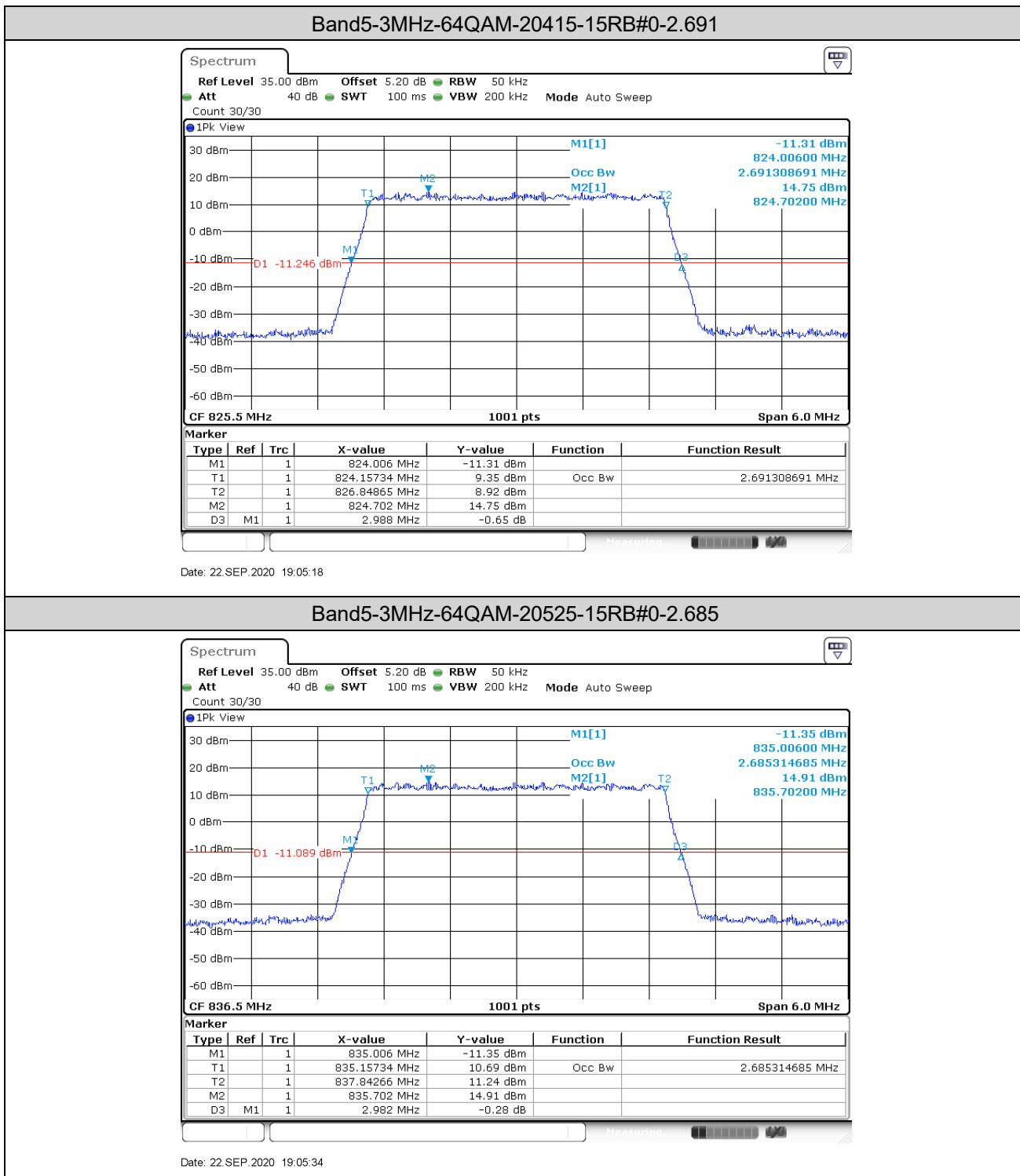


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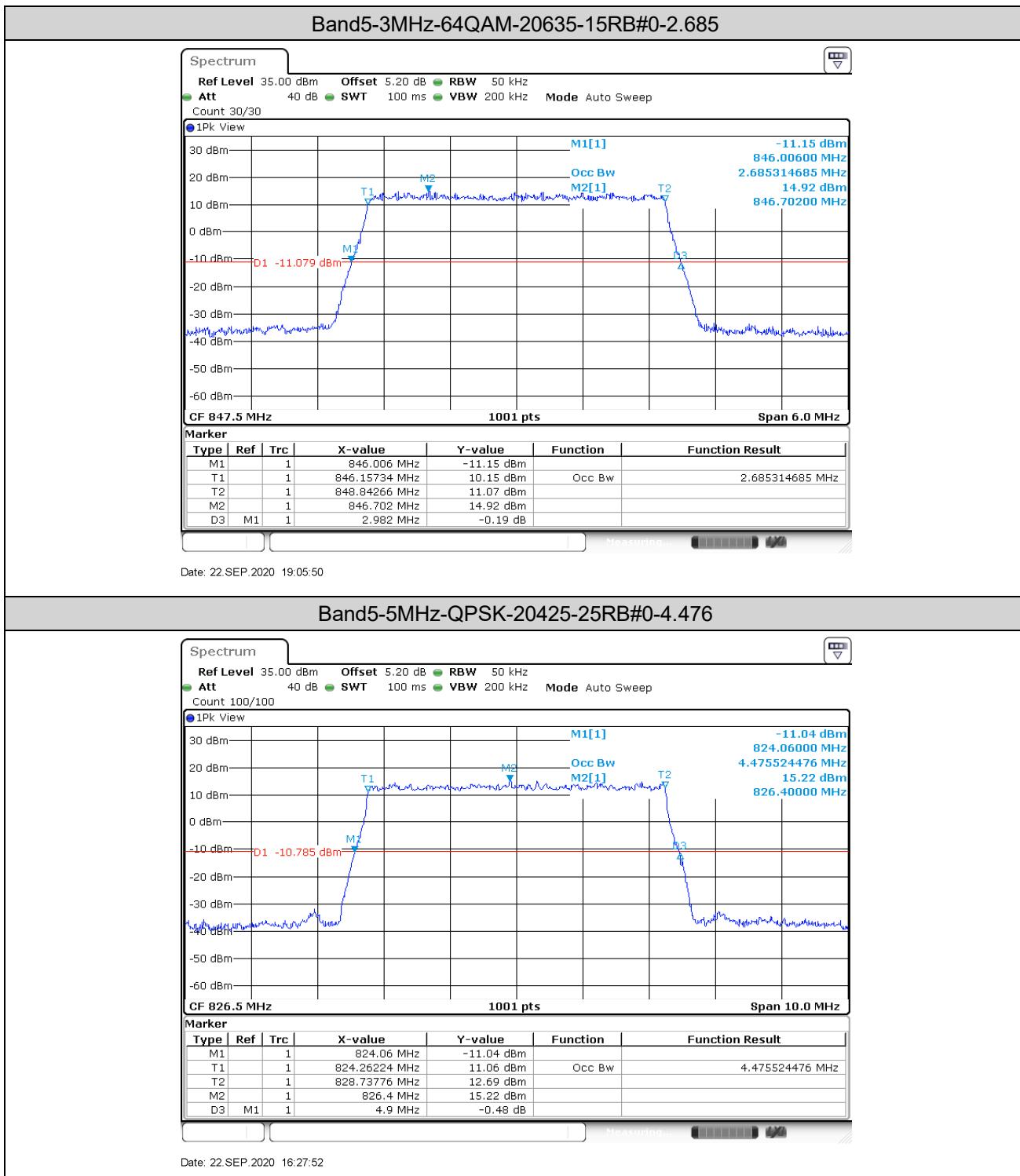


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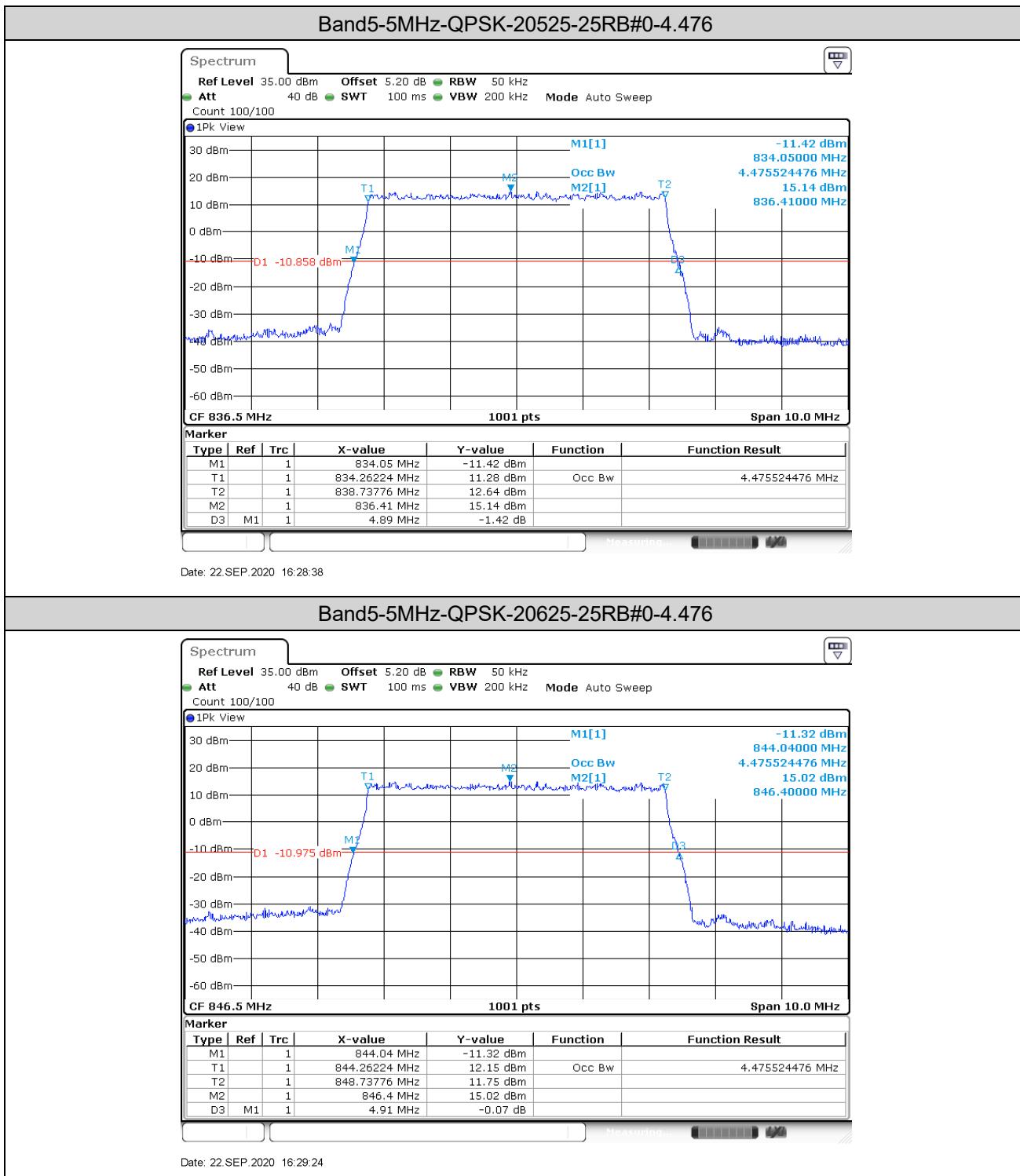
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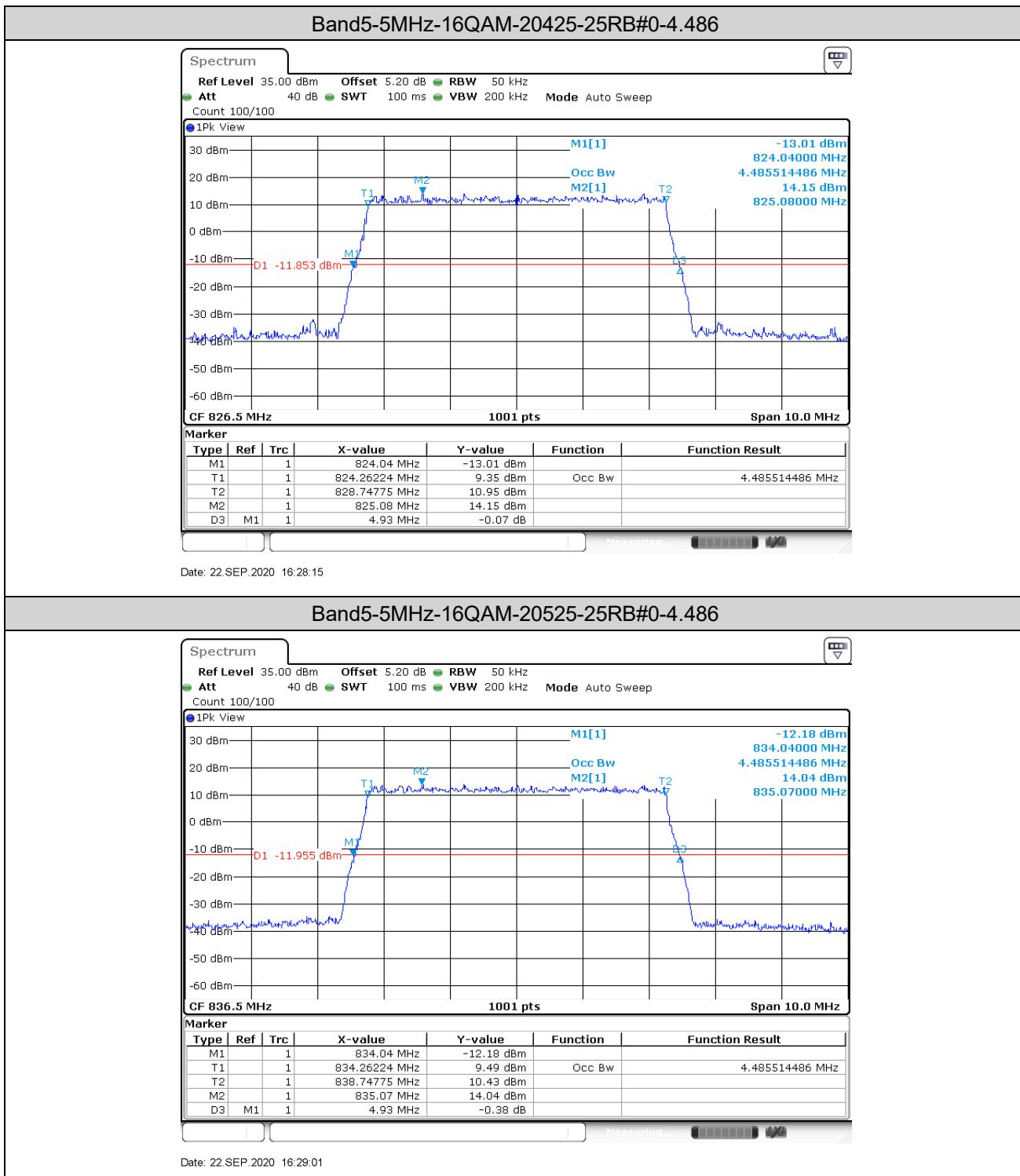




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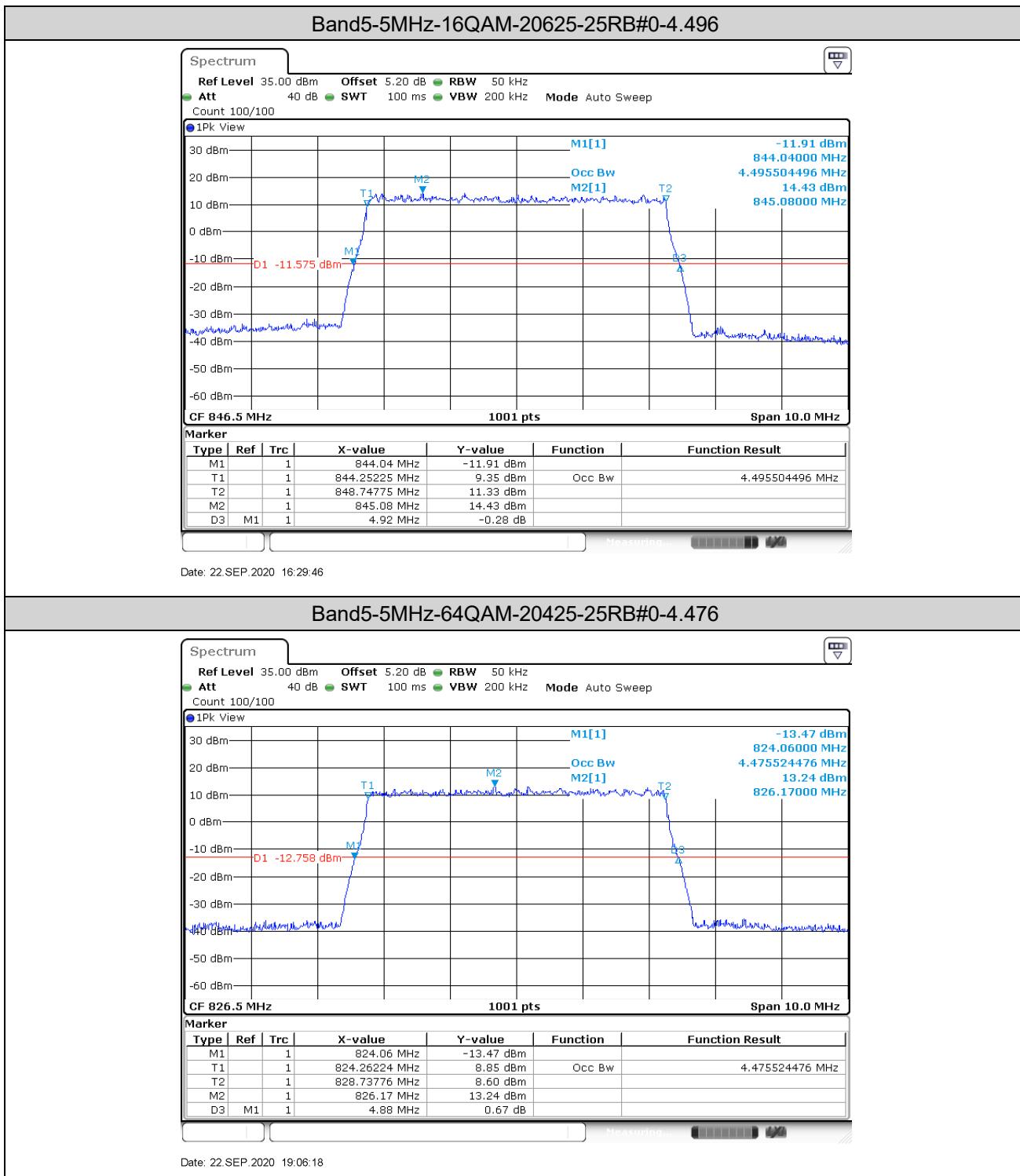


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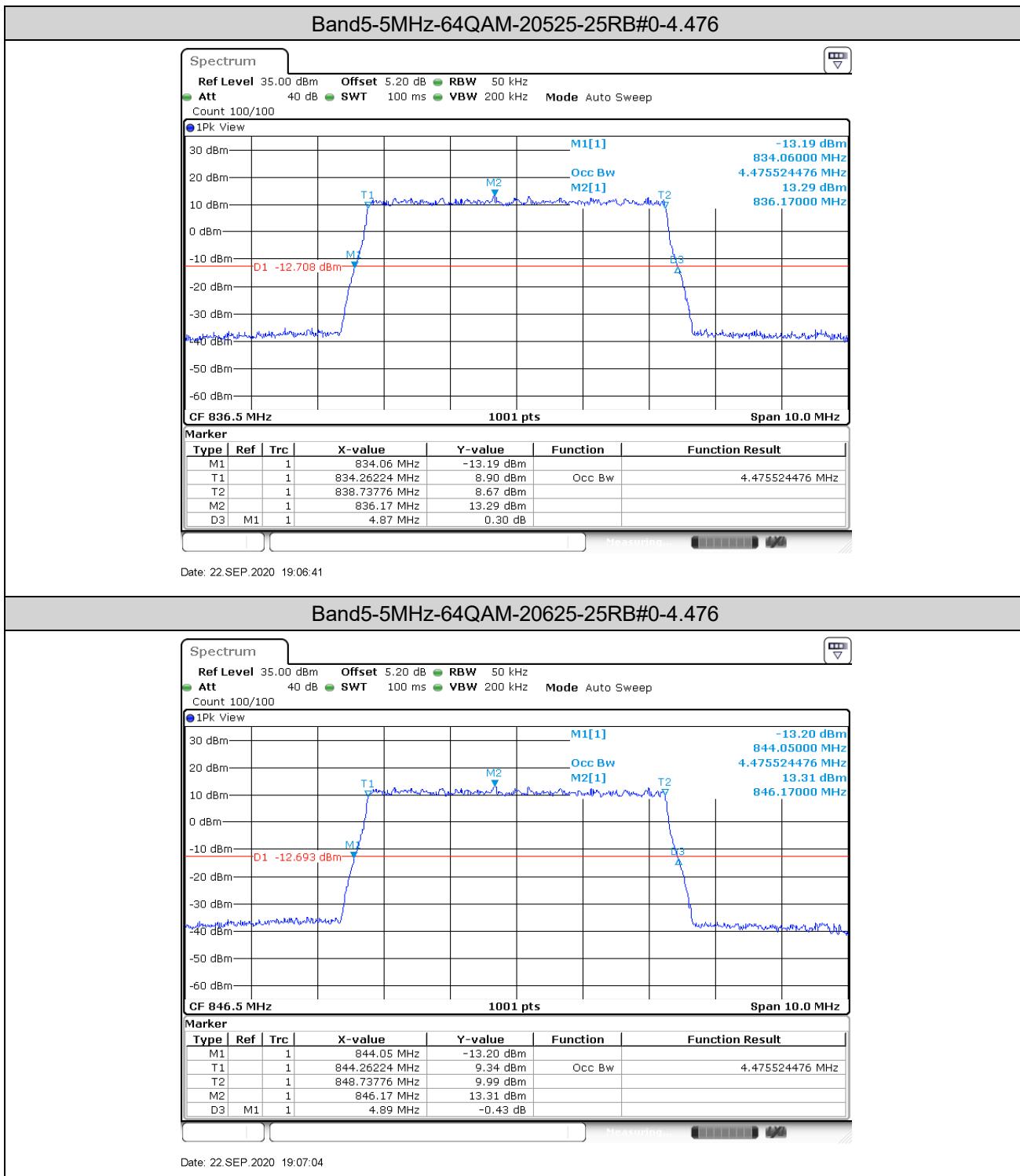


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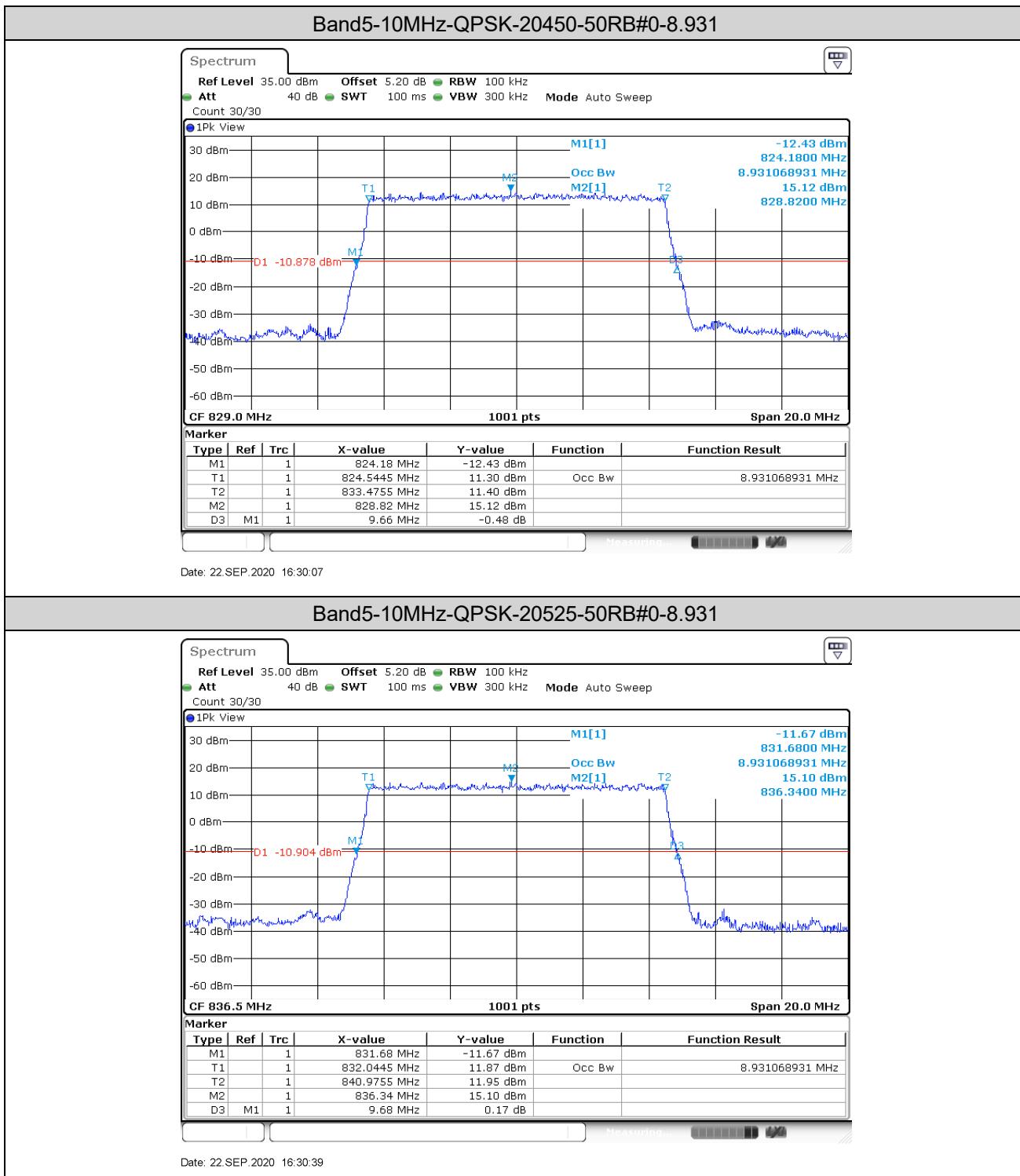
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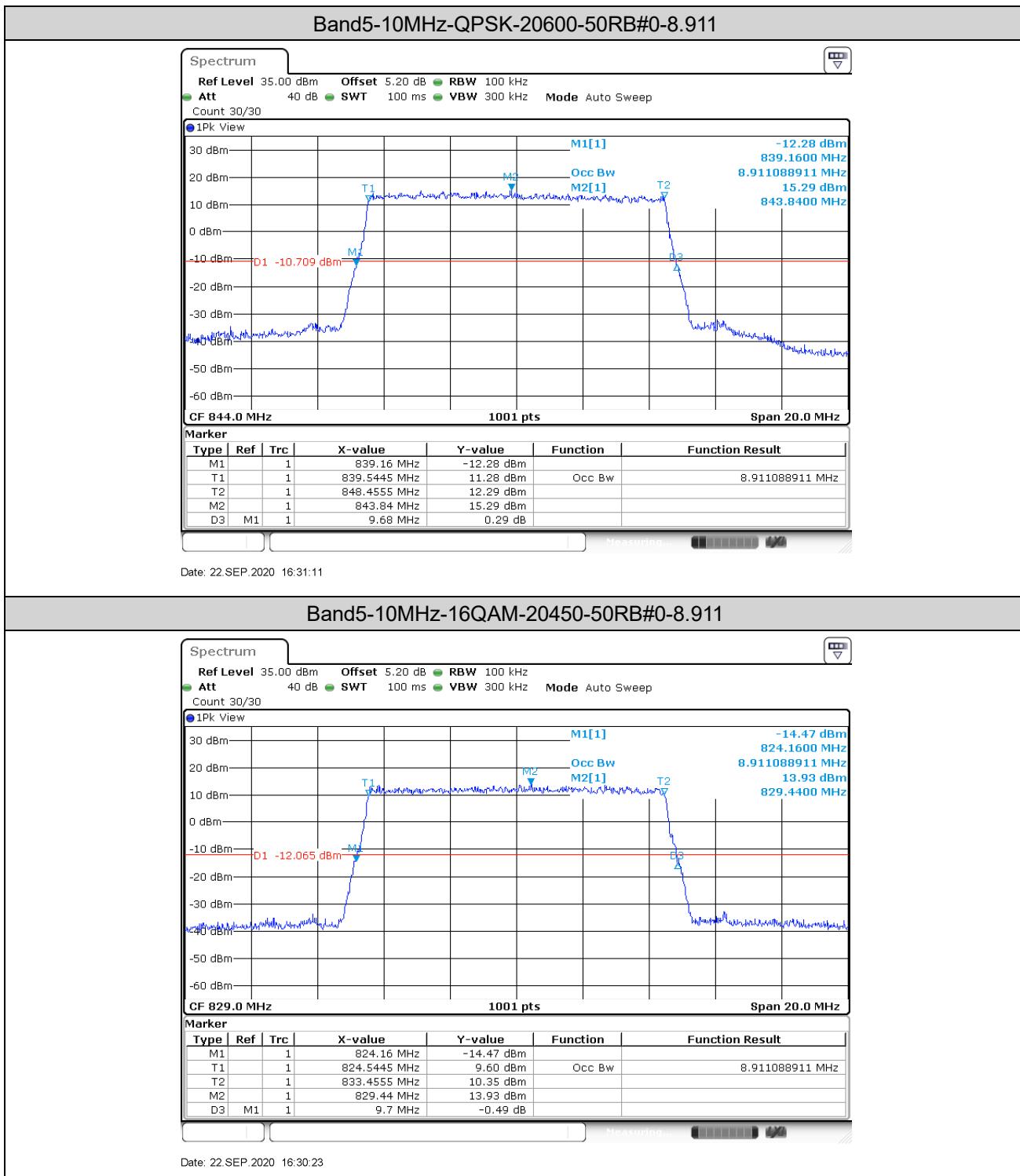


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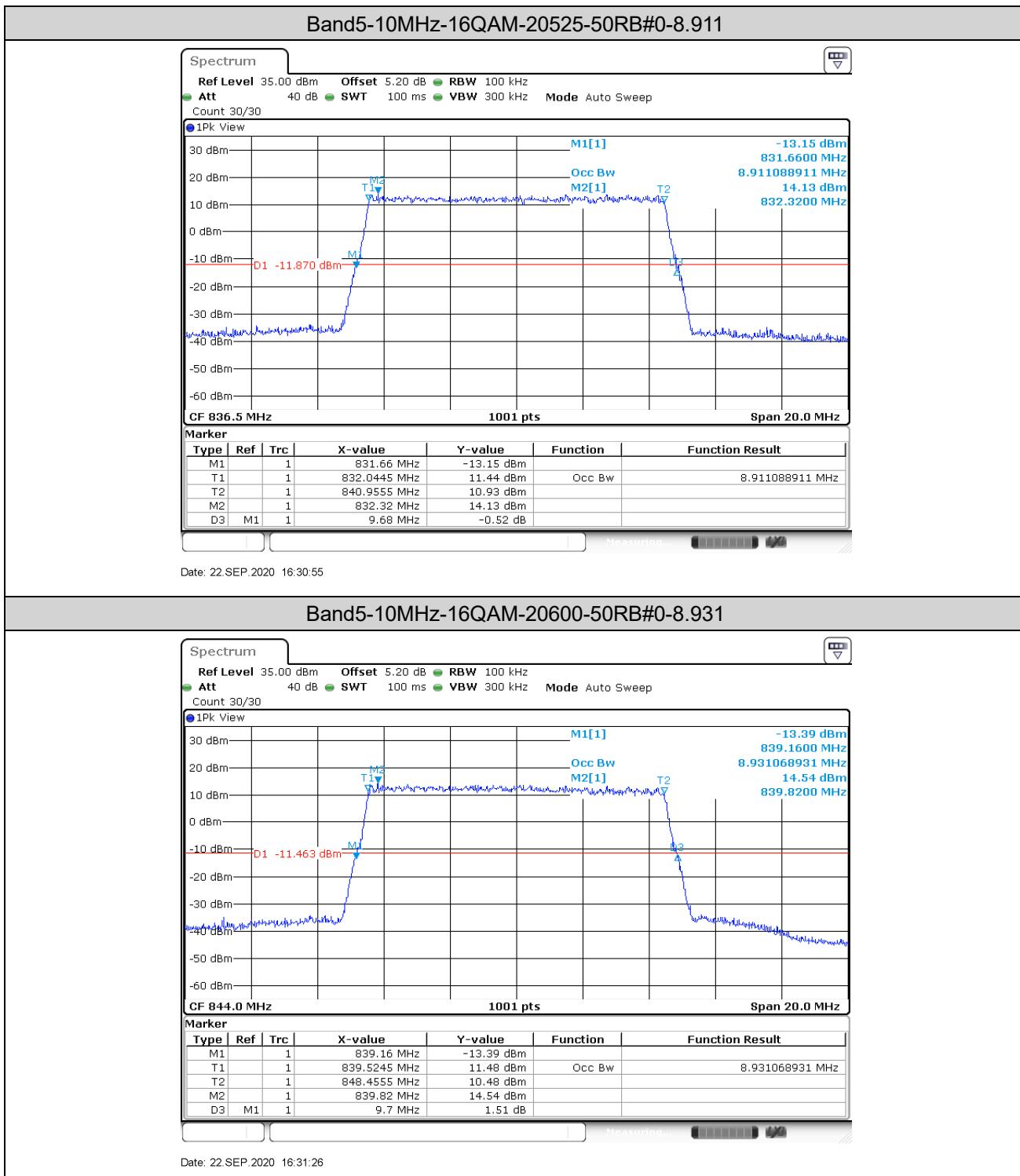


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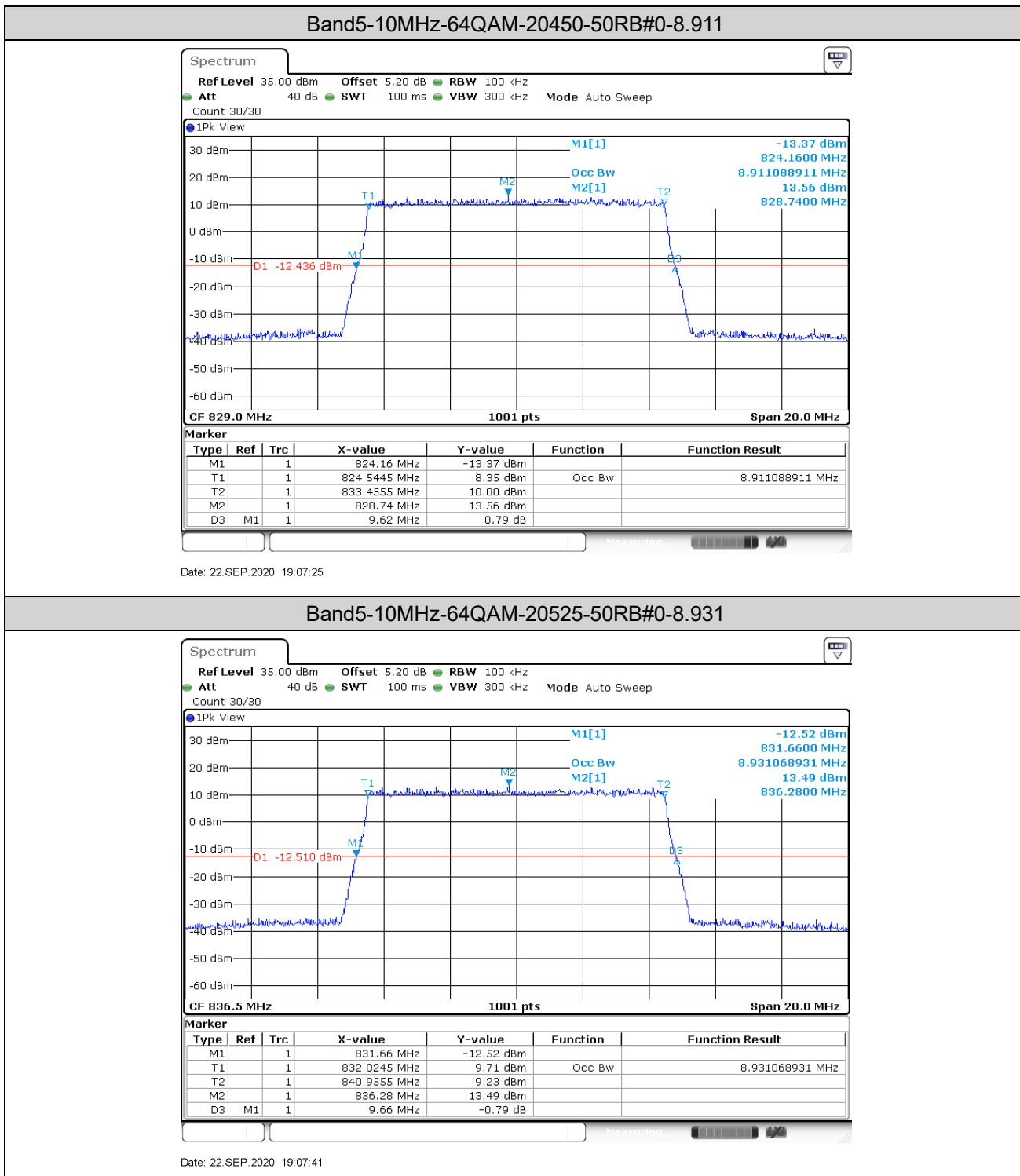


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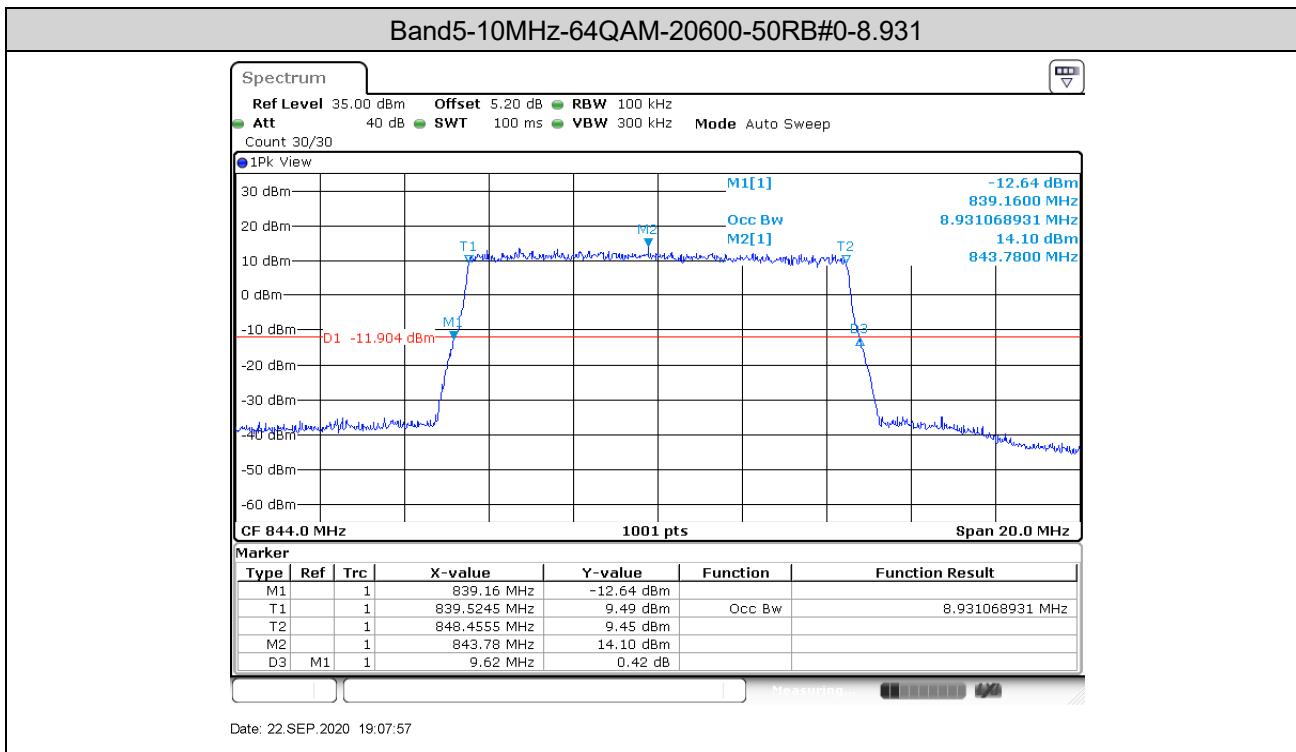


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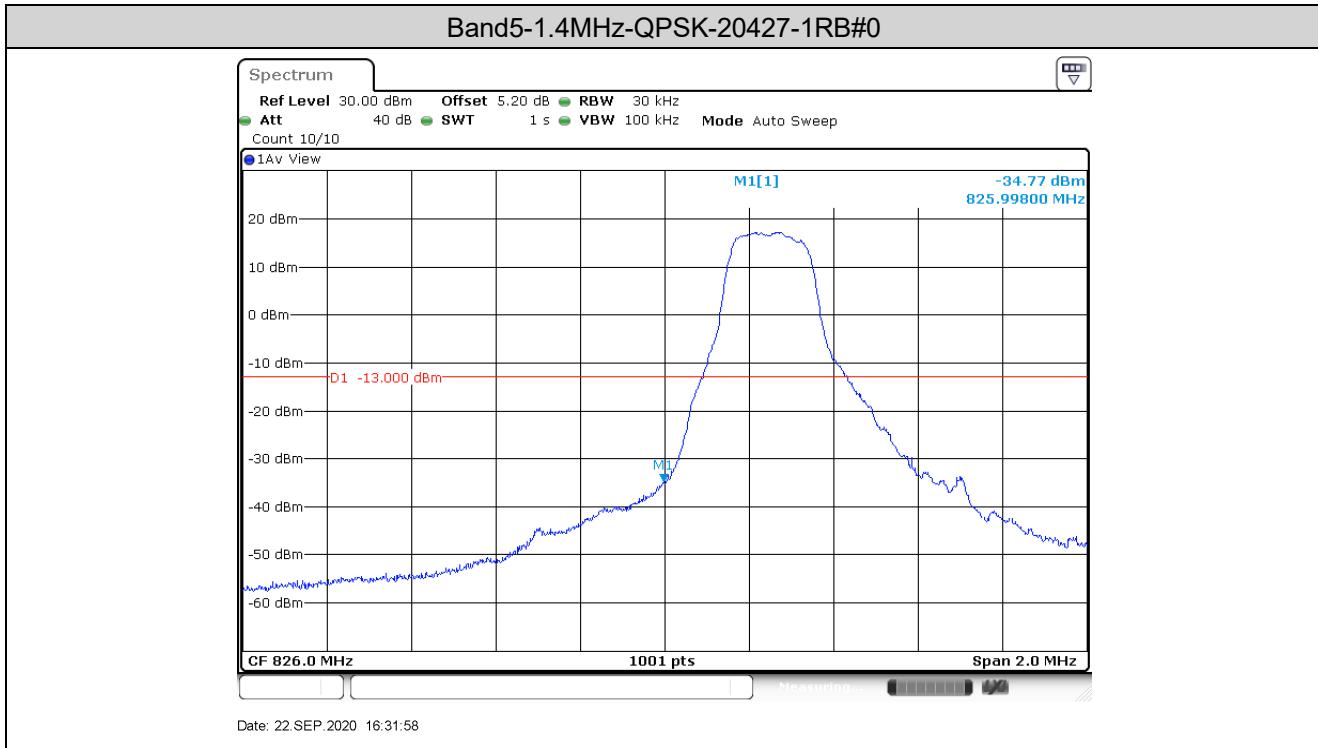
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## 5. Band Edge Compliance

### 5.1. Test Plots



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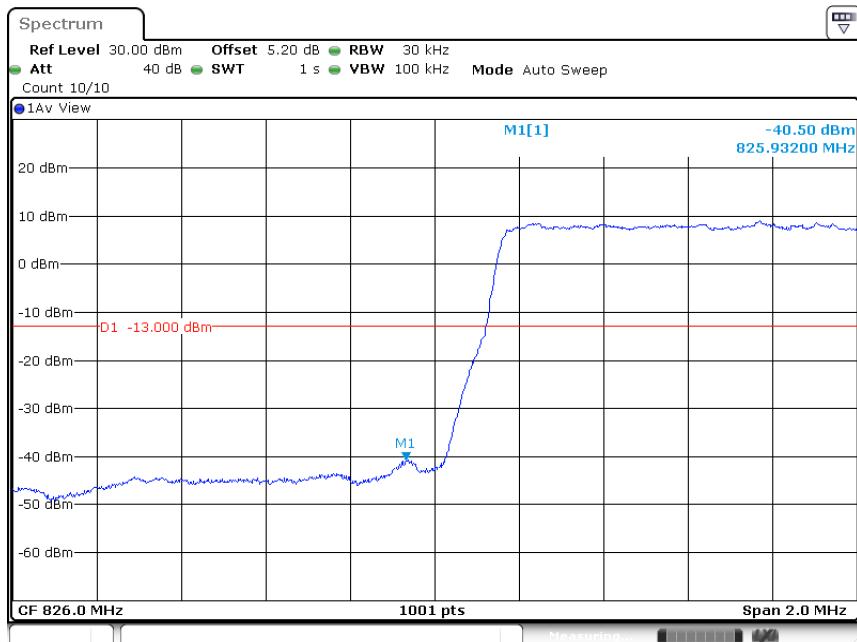
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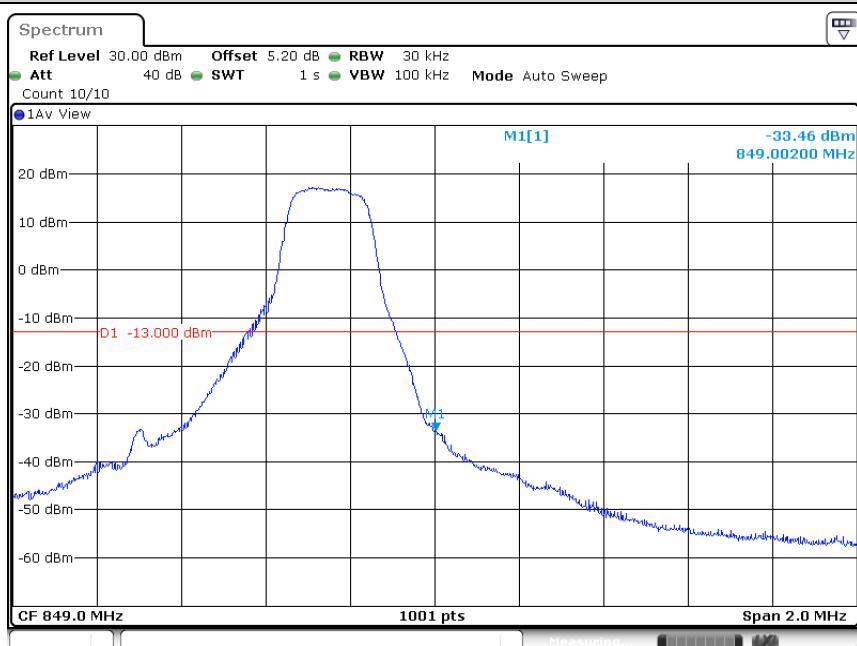
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## Band5-1.4MHz-QPSK-20427-6RB#0



Date: 22.SEP.2020 16:32:45

## Band5-1.4MHz-QPSK-20643-1RB#5



Date: 22 SEP.2020 16:33:40

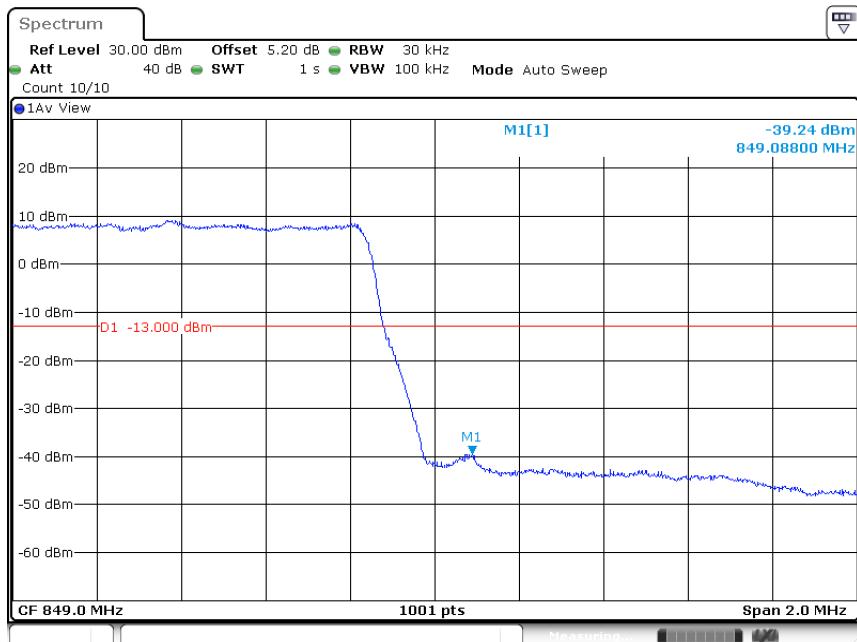
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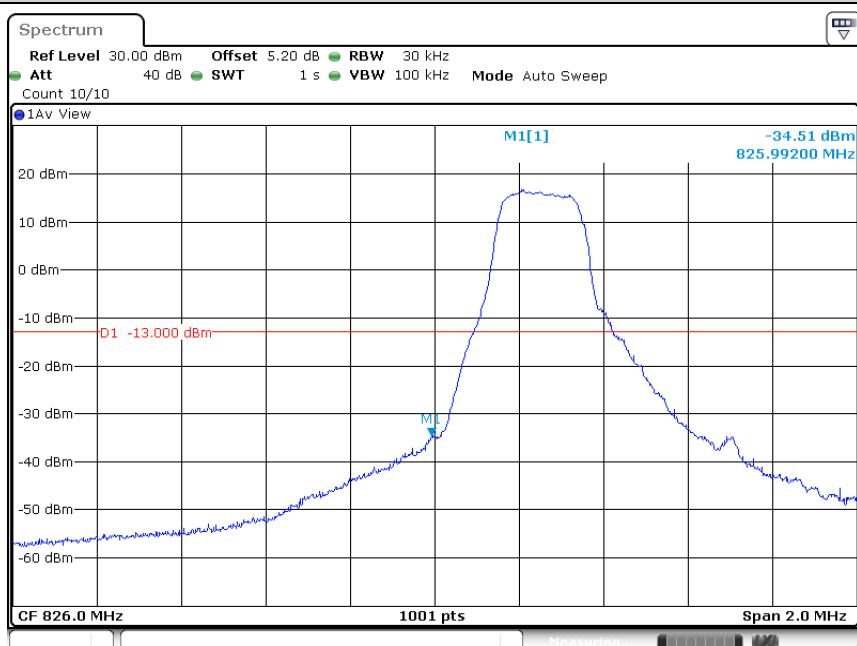
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## Band5-1.4MHz-QPSK-20643-6RB#0



Date: 22.SEP.2020 16:34:27

## Band5-1.4MHz-16QAM-20427-1RB#0



Date: 22 SEP.2020 16:32:22

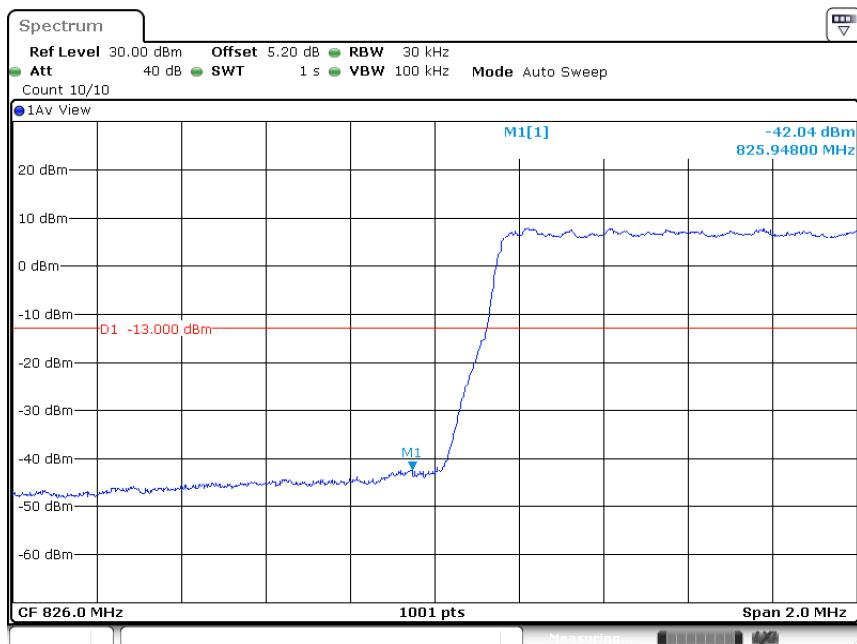
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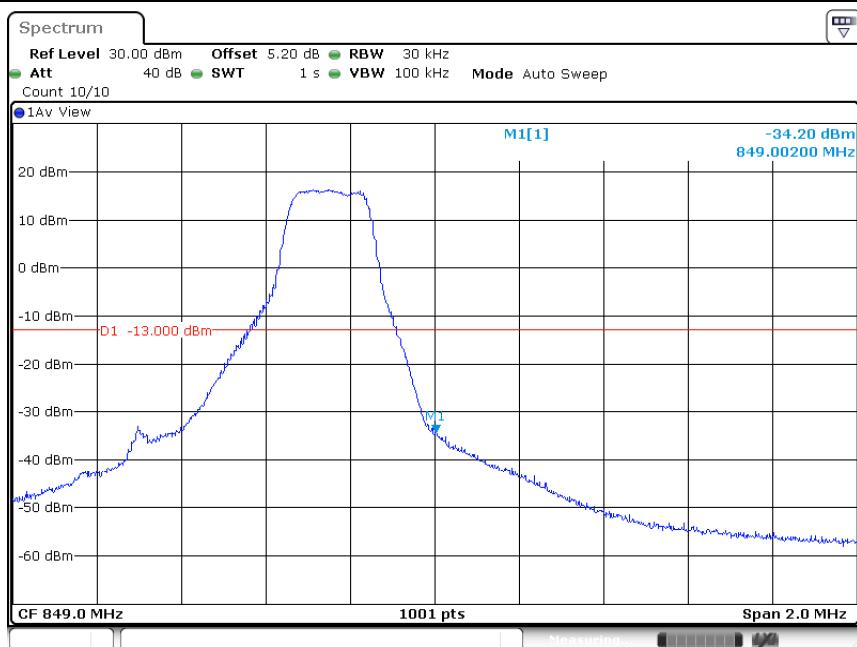
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## Band5-1.4MHz-16QAM-20427-6RB#0



Date: 22.SEP.2020 16:33:08

## Band5-1.4MHz-16QAM-20643-1RB#5



Date: 22 SEP.2020 16:34:03

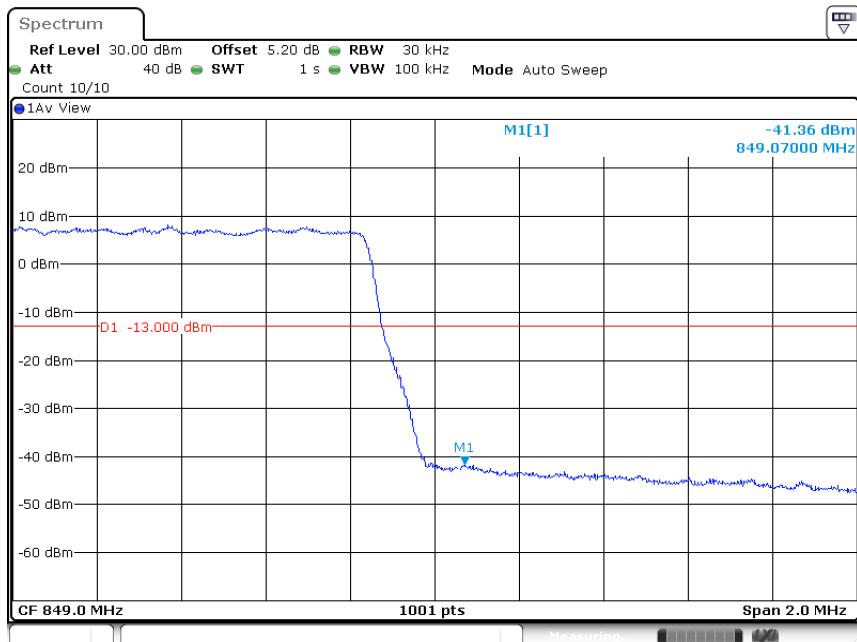
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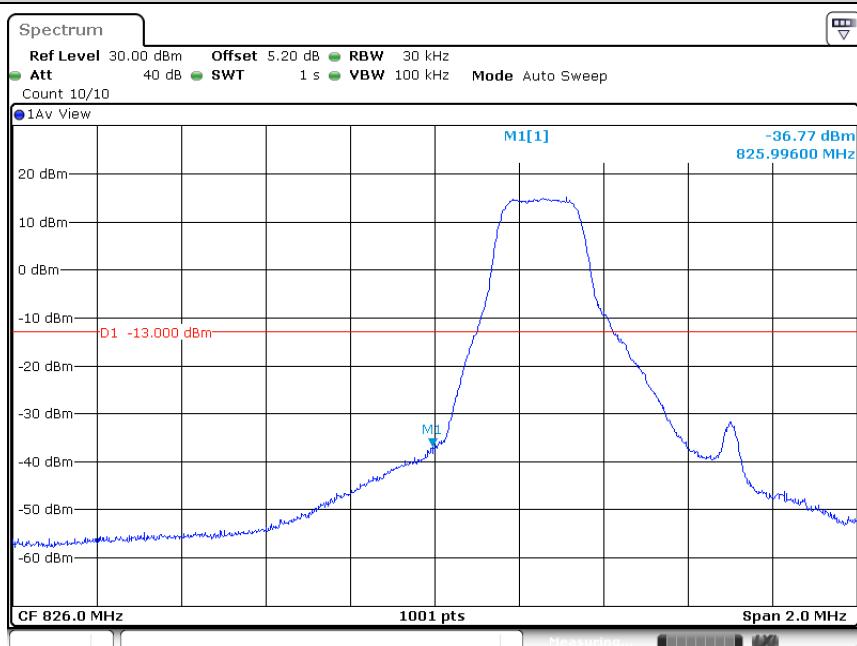
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## Band5-1.4MHz-16QAM-20643-6RB#0



Date: 22.SEP.2020 16:34:50

## Band5-1.4MHz-64QAM-20427-1RB#0



Date: 22 SEP.2020 19:08:30

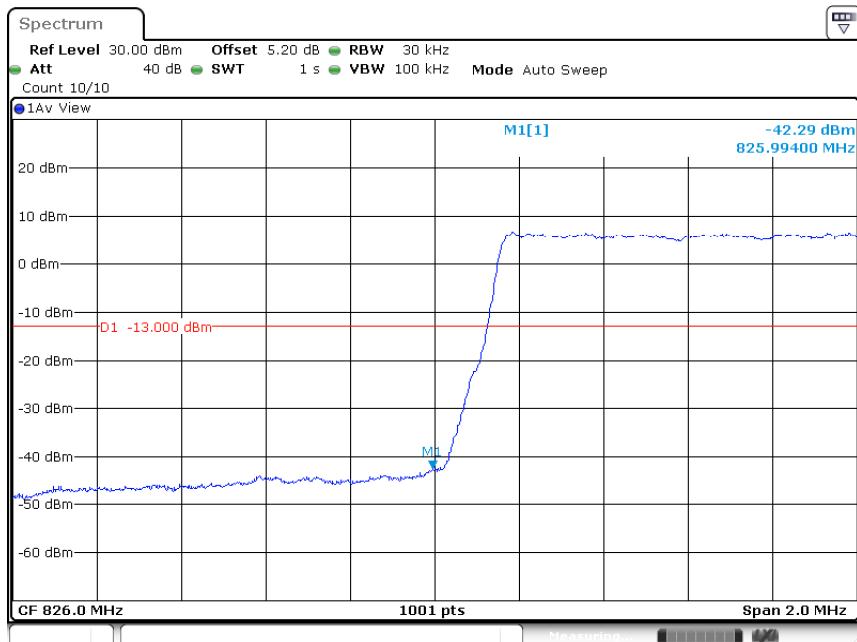
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## Band5-1.4MHz-64QAM-20427-6RB#0



Date: 22.SEP.2020 19:08:53

## Band5-1.4MHz-64QAM-20643-1RB#5



Date: 22 SEP.2020 19:09:25

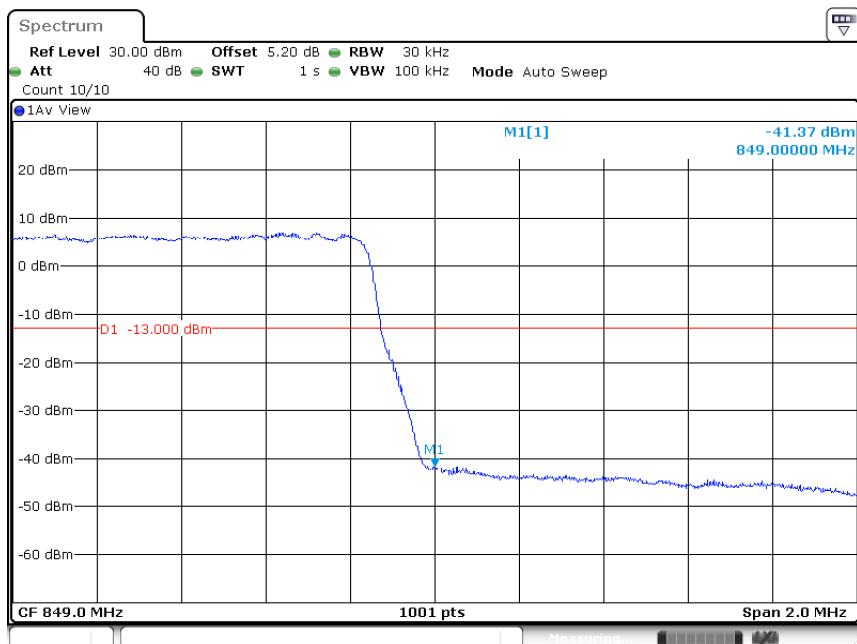
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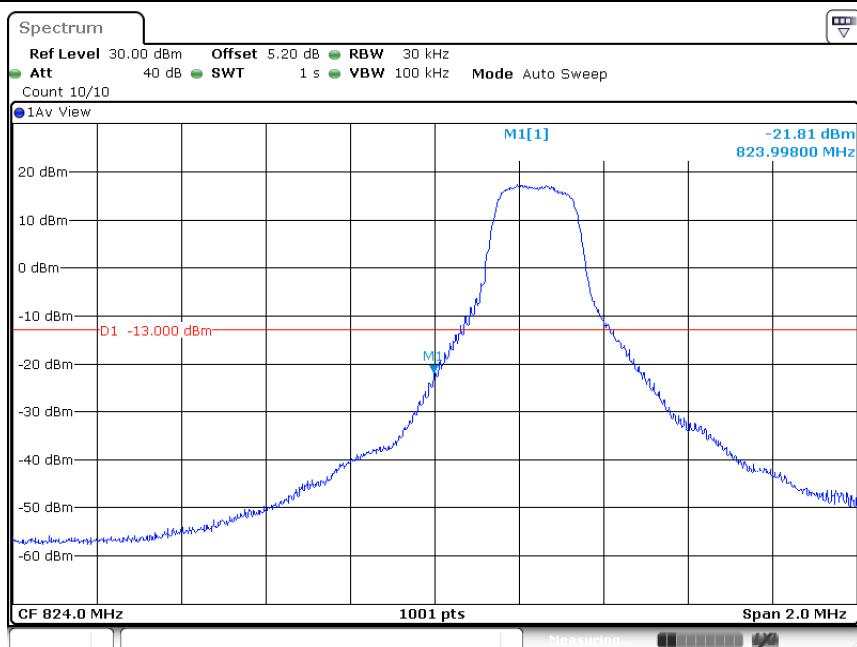
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## Band5-1.4MHz-64QAM-20643-6RB#0



Date: 22.SEP.2020 19:09:48

## Band5-3MHz-QPSK-20415-1RB#0



Date: 22 SEP.2020 16:35:22

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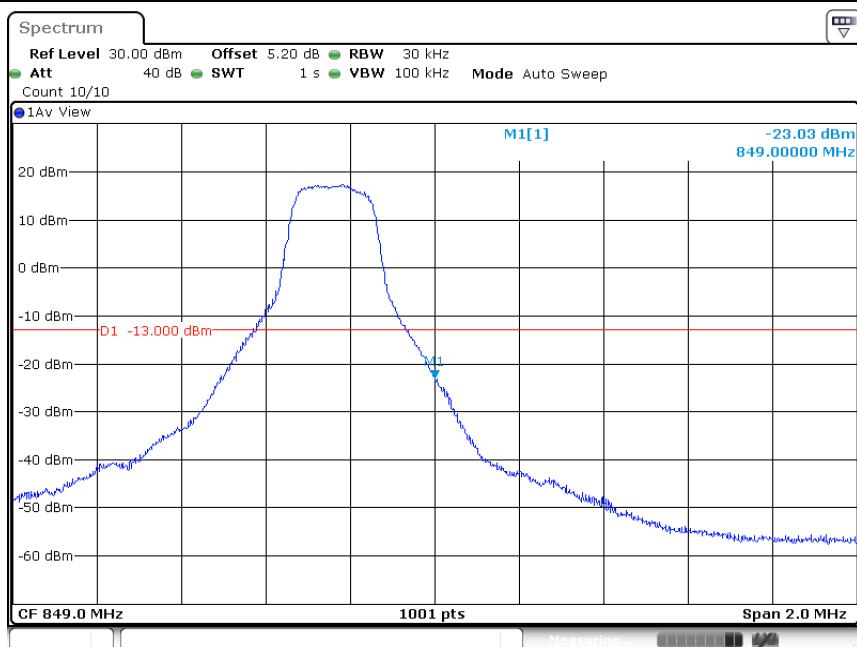
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## Band5-3MHz-QPSK-20415-15RB#0



Date: 22.SEP.2020 16:36:09

## Band5-3MHz-QPSK-20635-1RB#14



Date: 22 SEP.2020 16:37:03

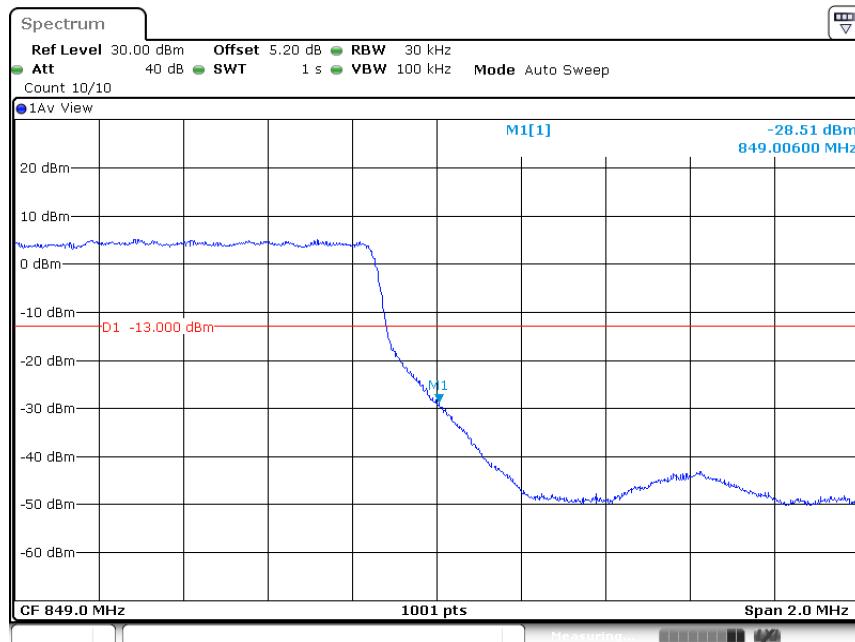
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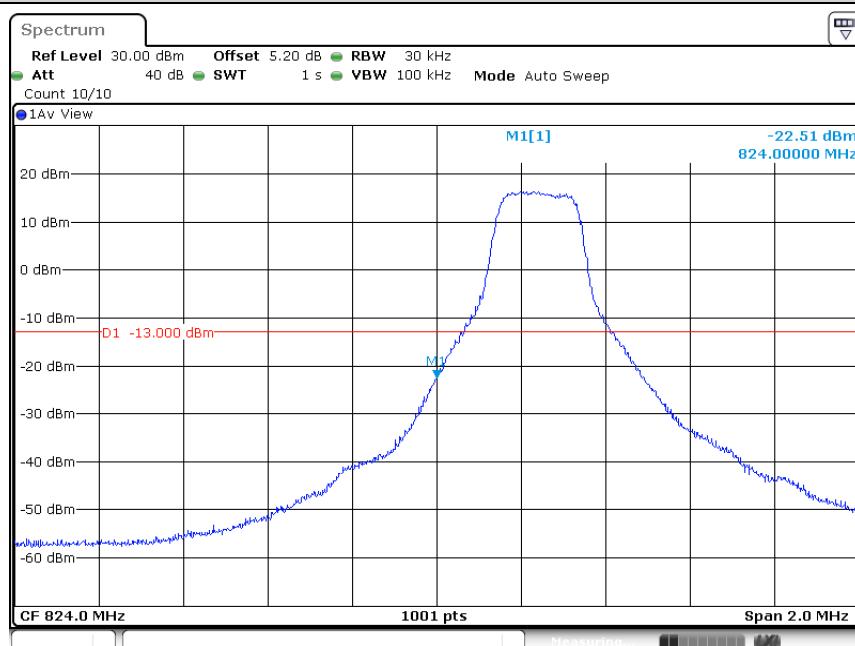
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## Band5-3MHz-QPSK-20635-15RB#0



Date: 22.SEP.2020 16:37:50

## Band5-3MHz-16QAM-20415-1RB#0



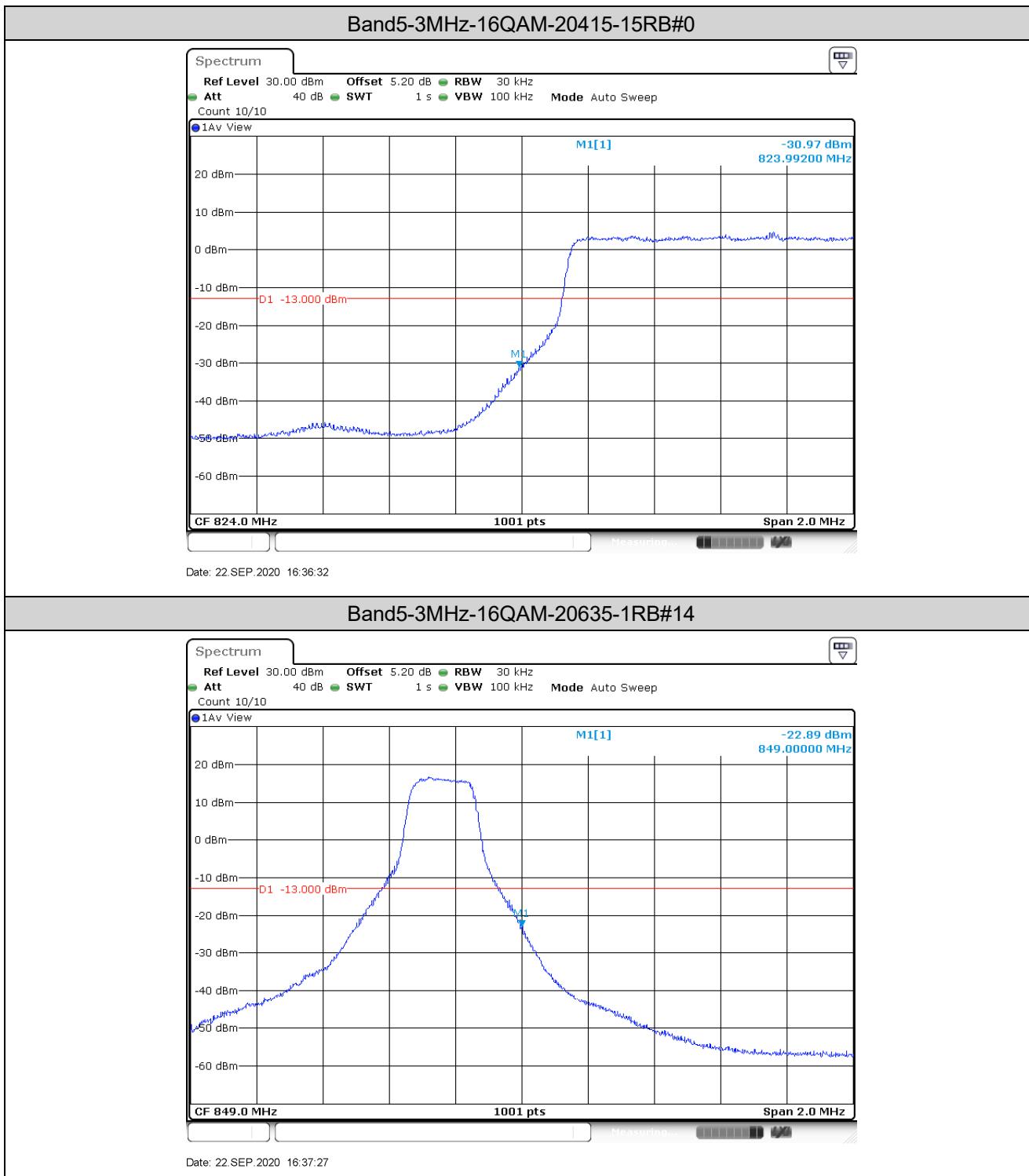
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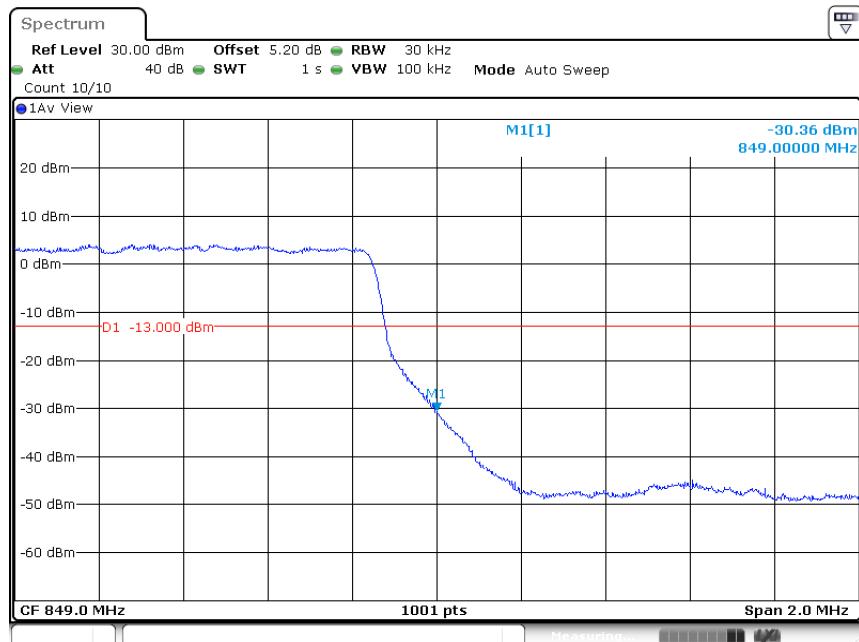
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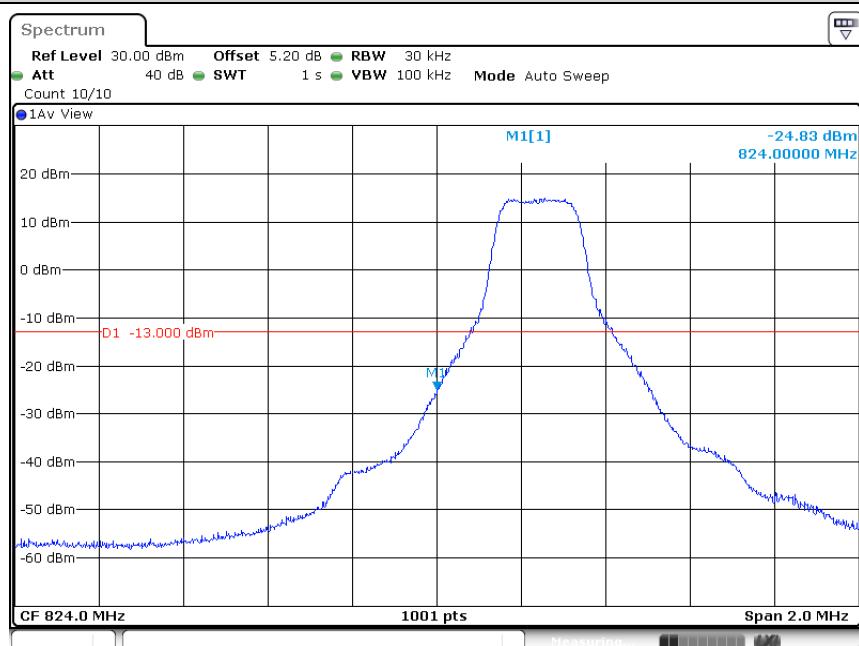
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## Band5-3MHz-16QAM-20635-15RB#0



Date: 22.SEP.2020 16:38:14

## Band5-3MHz-64QAM-20415-1RB#0



Date: 22 SEP.2020 19:10:20

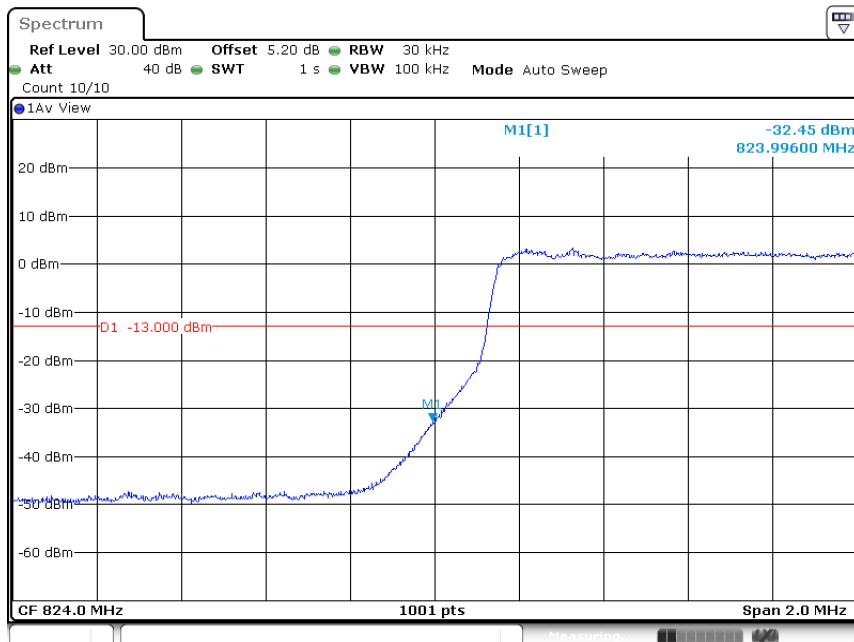
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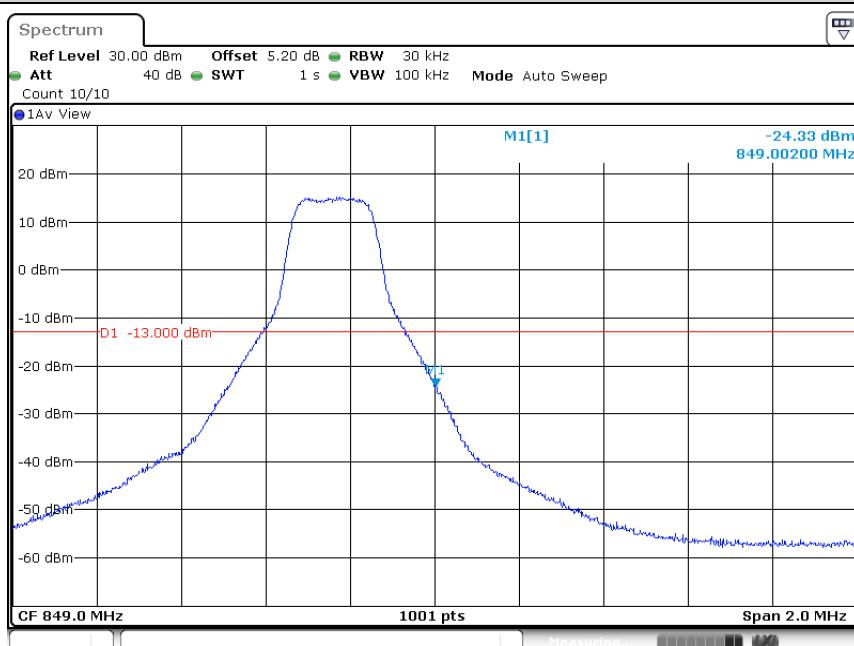
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## Band5-3MHz-64QAM-20415-15RB#0



Date: 22.SEP.2020 19:10:44

## Band5-3MHz-64QAM-20635-1RB#14



Date: 22 SEP.2020 19:11:15

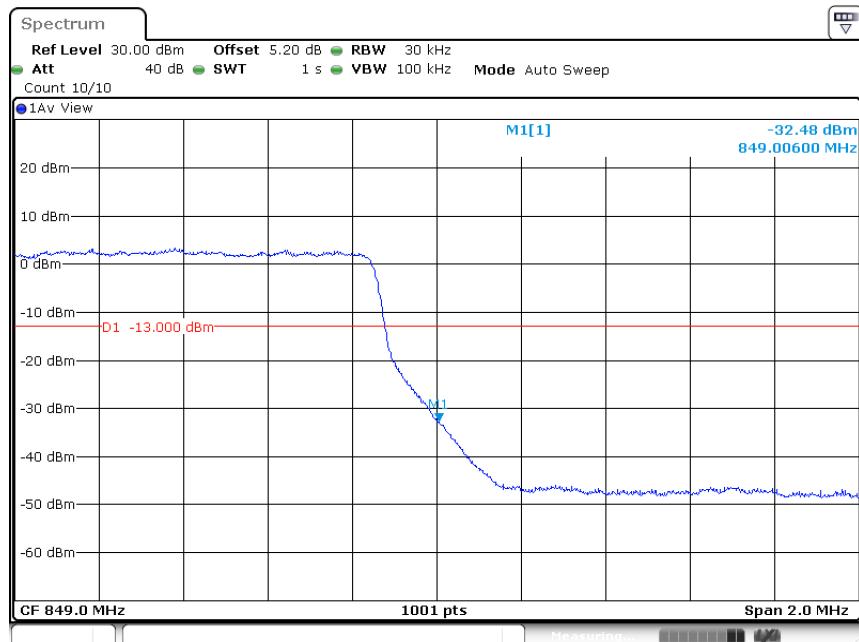
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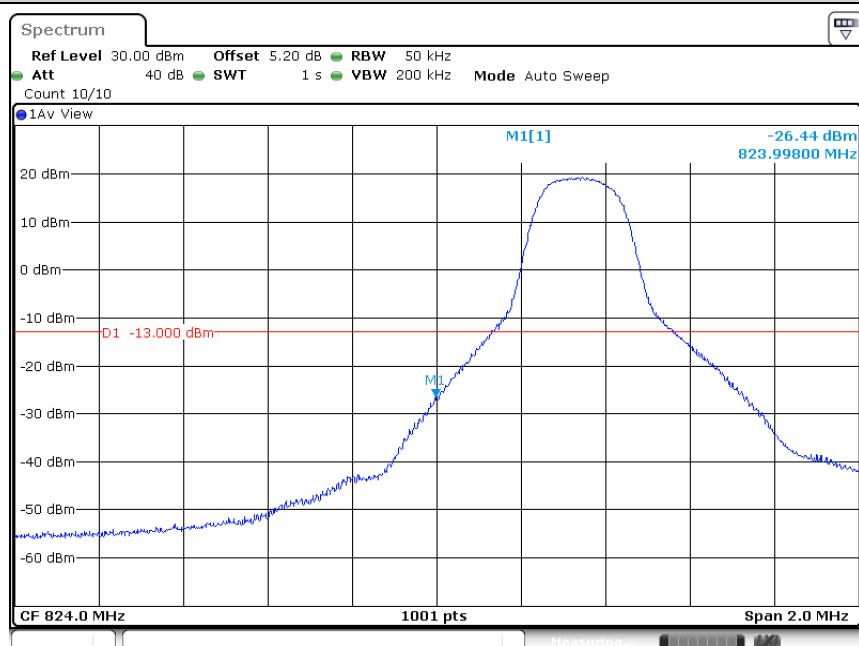
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## Band5-3MHz-64QAM-20635-15RB#0



Date: 22.SEP.2020 19:11:39

## Band5-5MHz-QPSK-20425-1RB#0



Date: 22 SEP.2020 16:38:47

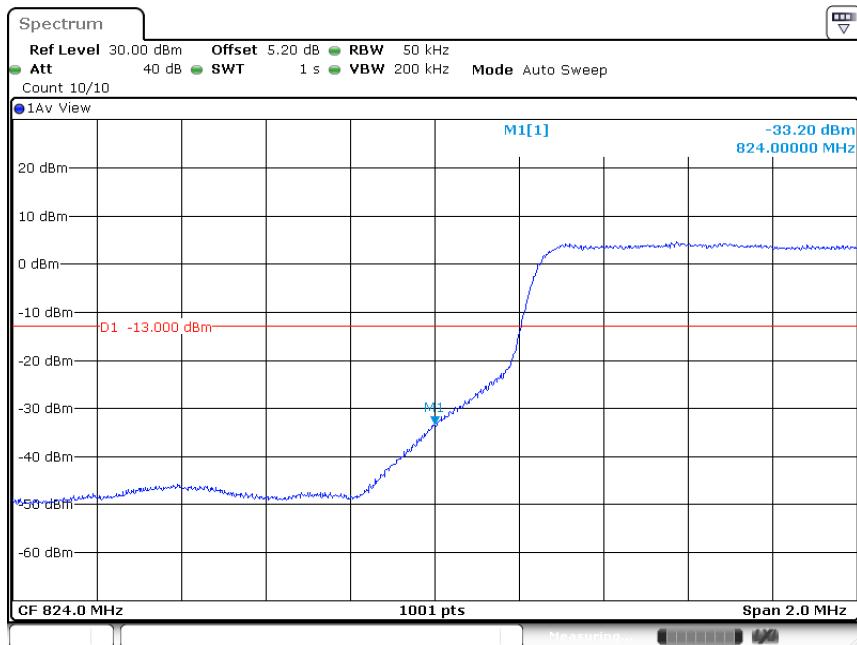
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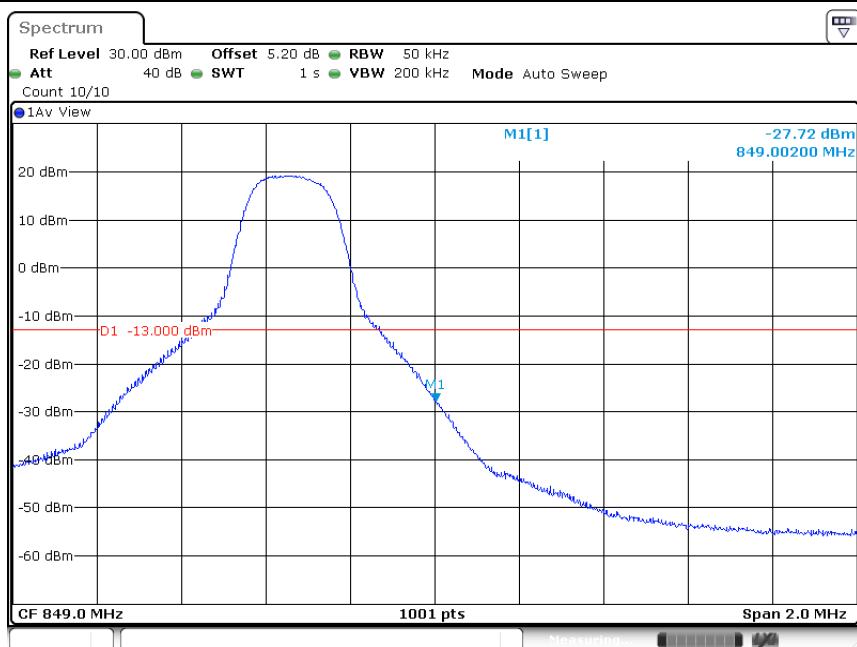
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## Band5-5MHz-QPSK-20425-25RB#0



Date: 22.SEP.2020 16:39:34

## Band5-5MHz-QPSK-20625-1RB#24



Date: 22 SEP.2020 16:40:29

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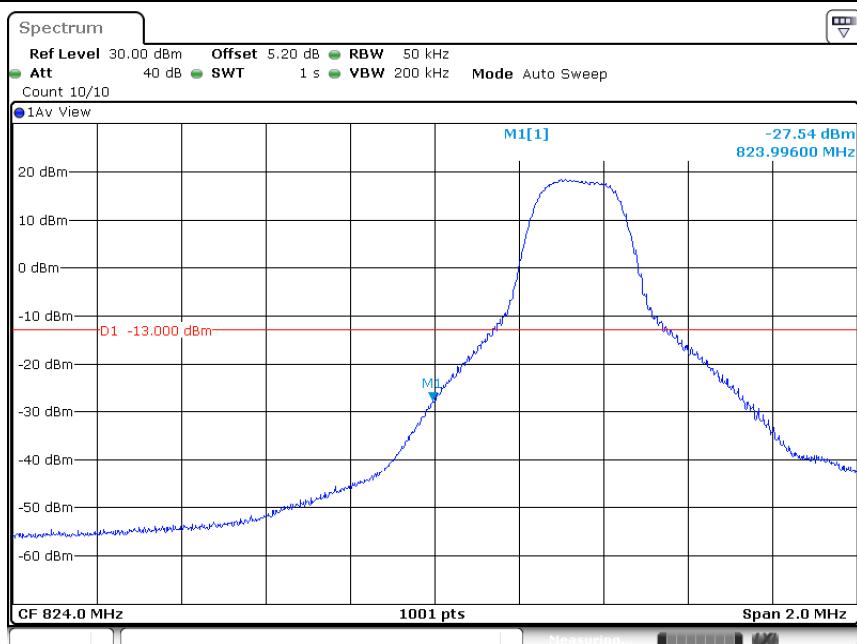
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## Band5-5MHz-QPSK-20625-25RB#0



Date: 22.SEP.2020 16:41:16

## Band5-5MHz-16QAM-20425-1RB#0



Date: 22 SEP.2020 16:39:11

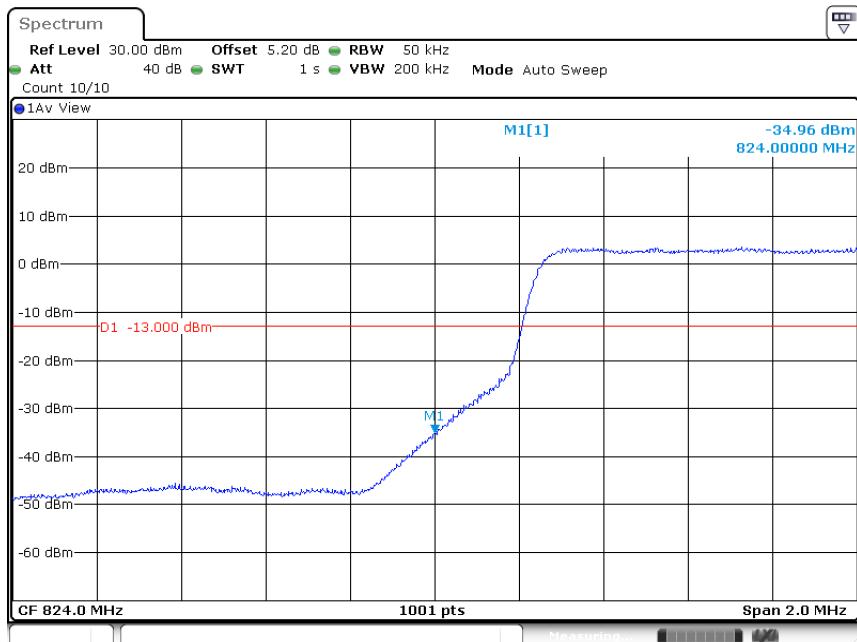
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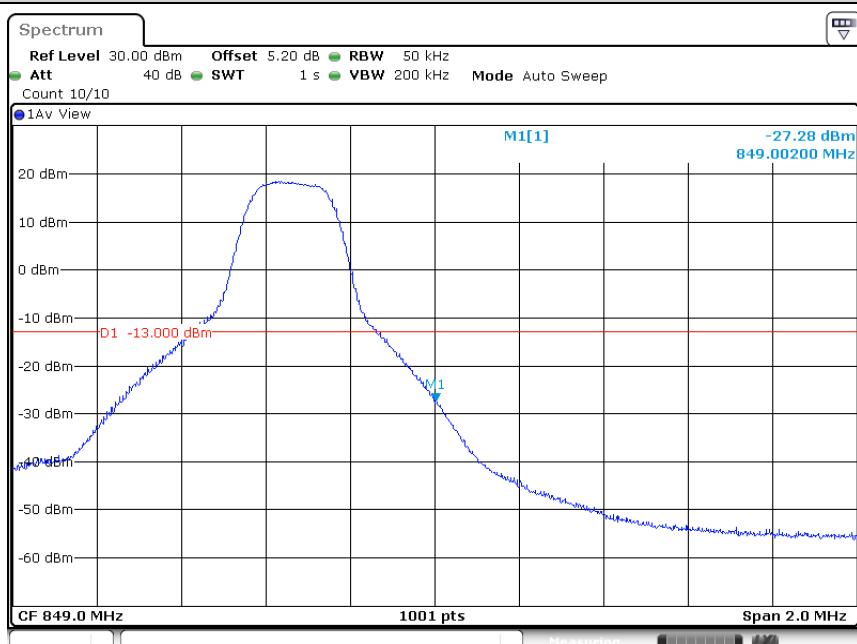
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## Band5-5MHz-16QAM-20425-25RB#0



Date: 22.SEP.2020 16:39:57

## Band5-5MHz-16QAM-20625-1RB#24



Date: 22 SEP.2020 16:40:52

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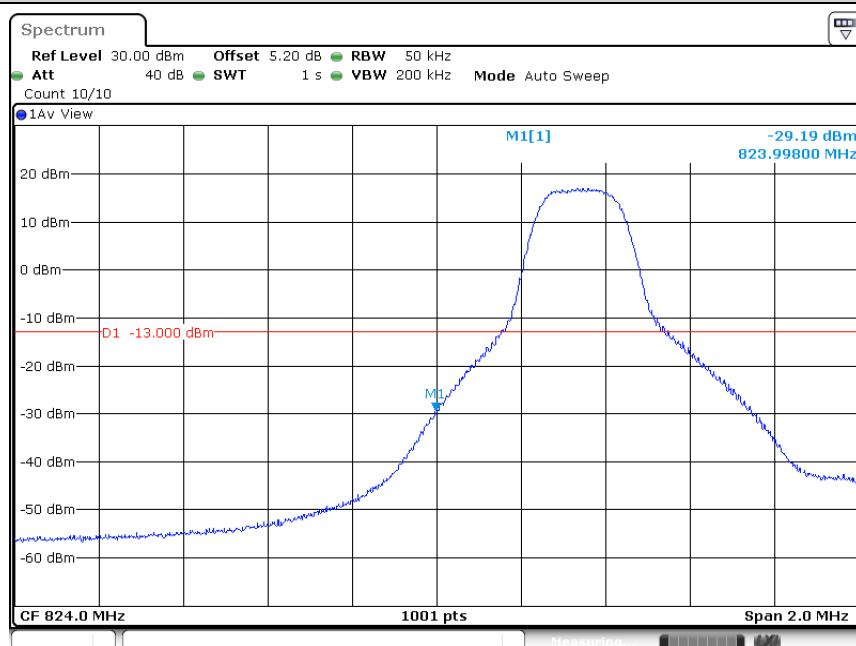
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## Band5-5MHz-16QAM-20625-25RB#0



Date: 22.SEP.2020 16:41:39

## Band5-5MHz-64QAM-20425-1RB#0



Date: 22 SEP.2020 19:12:11

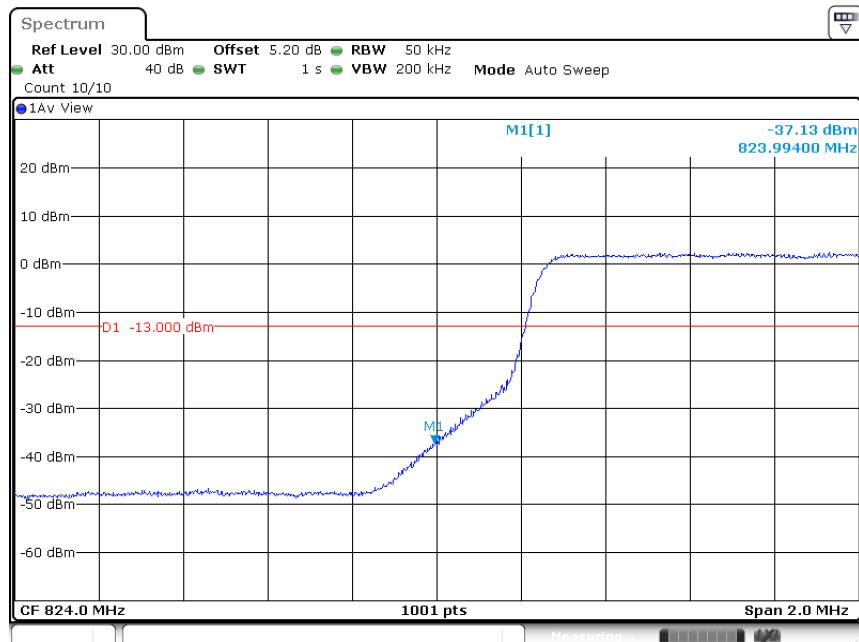
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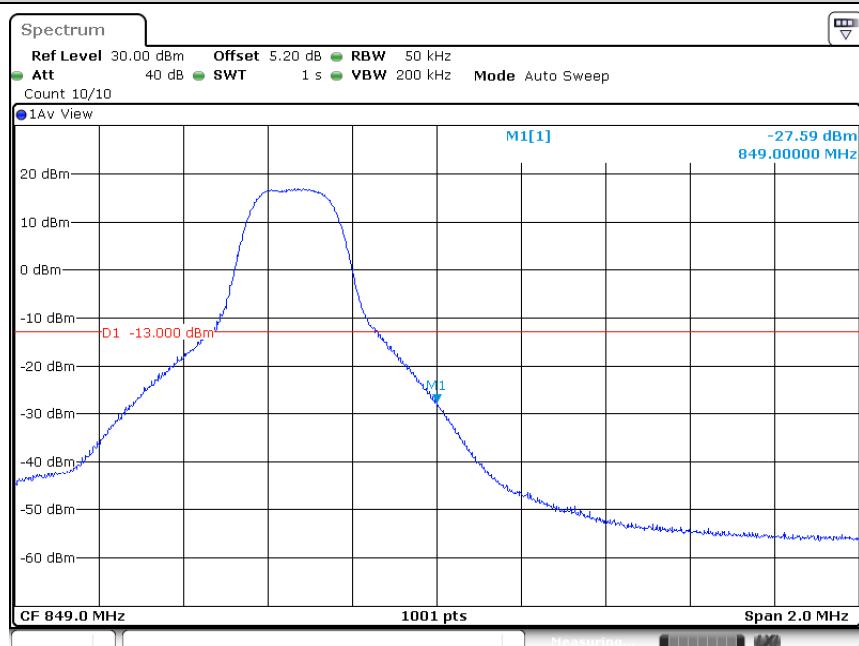
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## Band5-5MHz-64QAM-20425-25RB#0



Date: 22.SEP.2020 19:12:34

## Band5-5MHz-64QAM-20625-1RB#24



Date: 22 SEP.2020 19:13:06

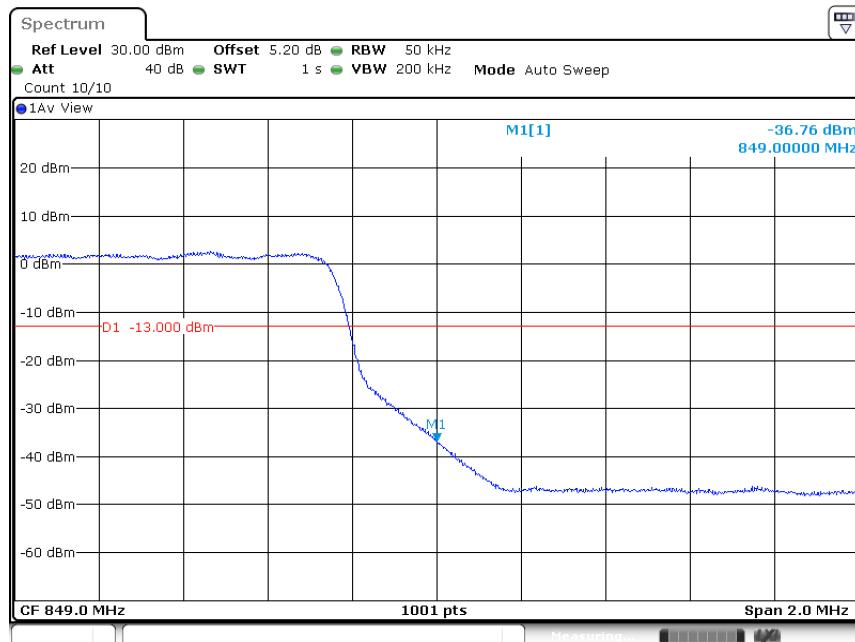
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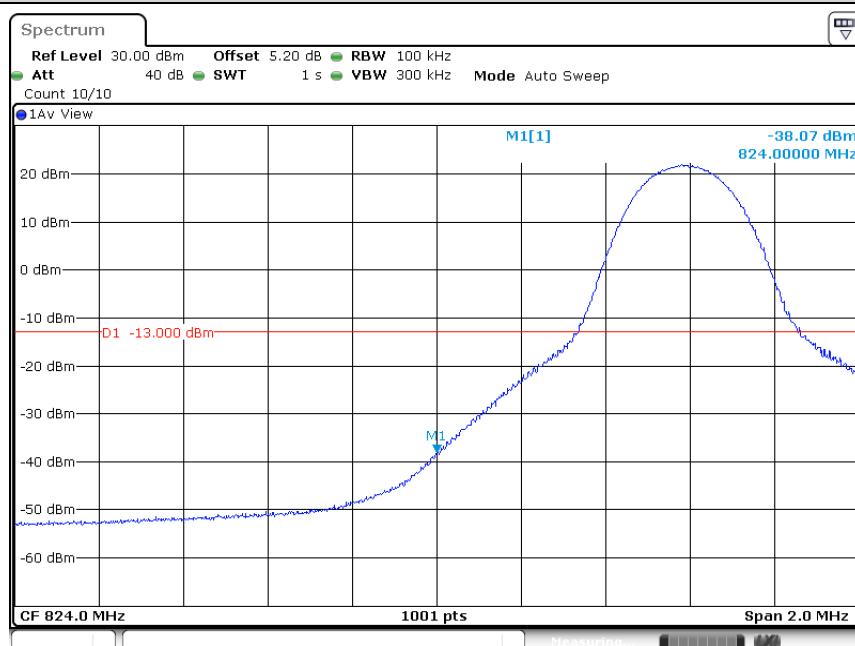
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## Band5-5MHz-64QAM-20625-25RB#0



Date: 22.SEP.2020 19:13:29

## Band5-10MHz-QPSK-20450-1RB#0



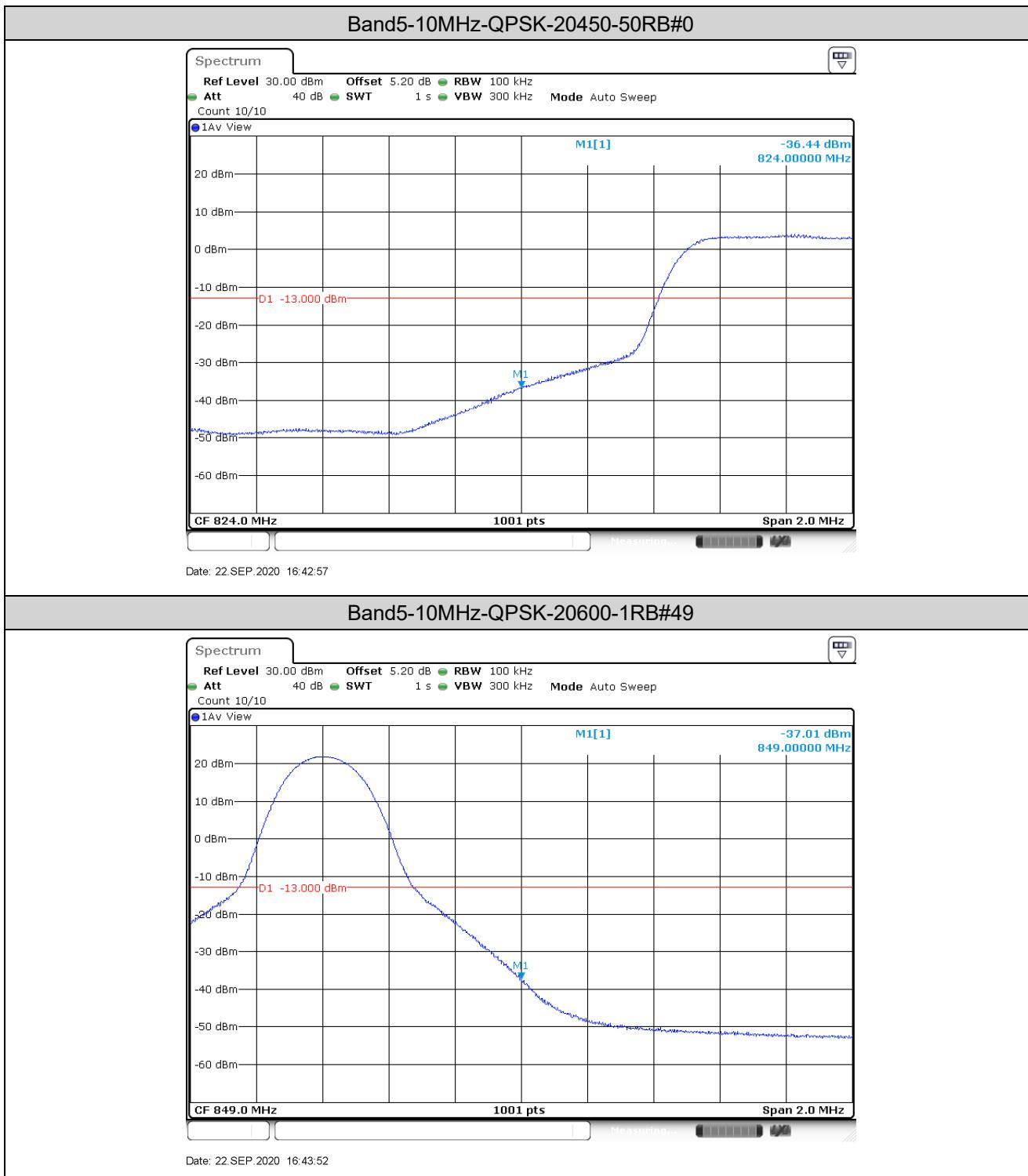
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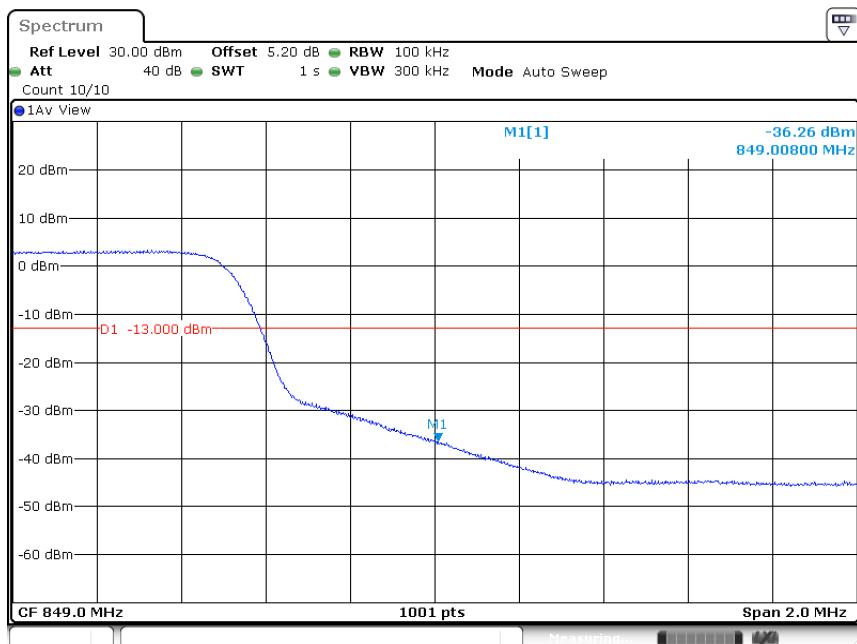
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## Band5-10MHz-QPSK-20600-50RB#0



Date: 22.SEP.2020 16:44:39

## Band5-10MHz-16QAM-20450-1RB#0



Date: 22 SEP.2020 16:42:34

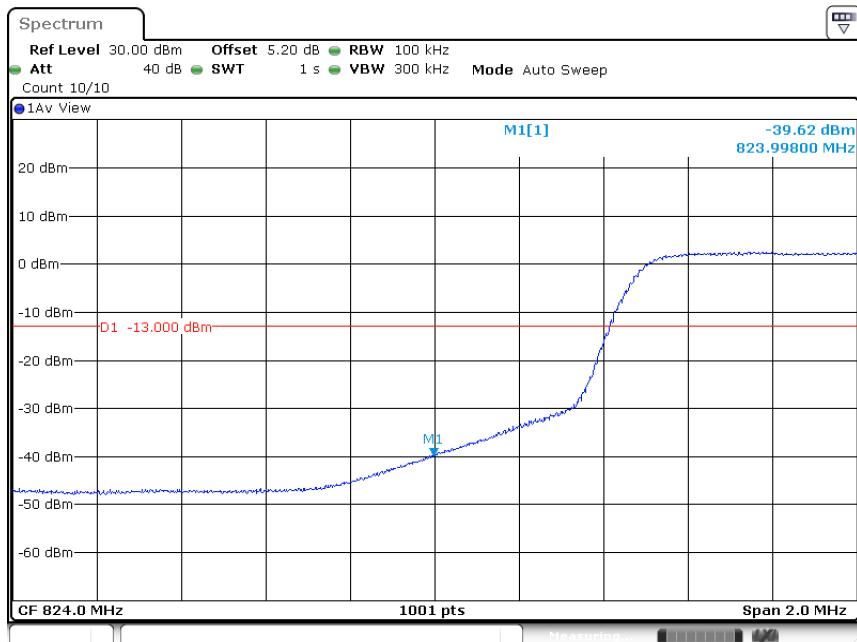
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## Band5-10MHz-16QAM-20450-50RB#0



Date: 22.SEP.2020 16:43:21

## Band5-10MHz-16QAM-20600-1RB#49



Date: 22 SEP.2020 16:44:15

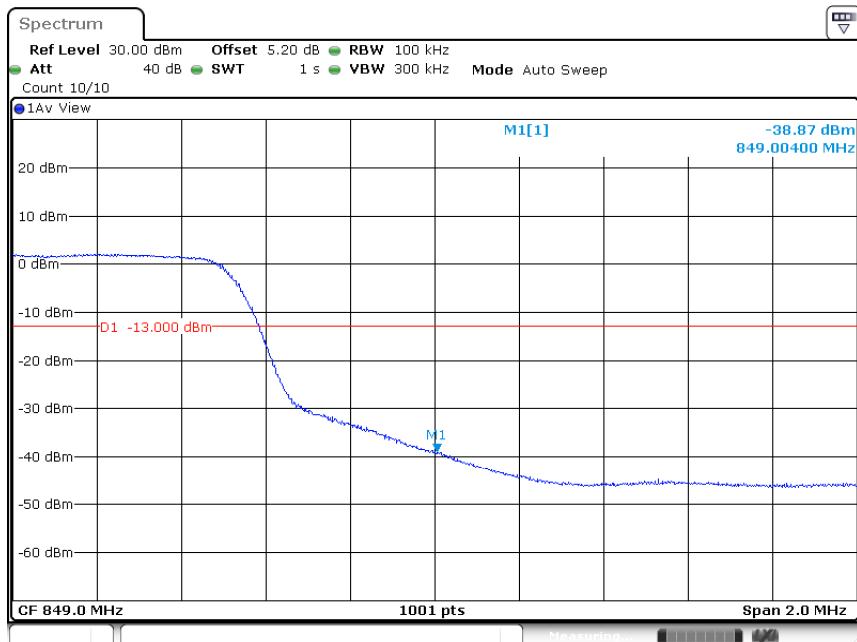
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## Band5-10MHz-16QAM-20600-50RB#0



Date: 22.SEP.2020 16:45:03

## Band5-10MHz-64QAM-20450-1RB#0



Date: 22 SEP.2020 19:14:01

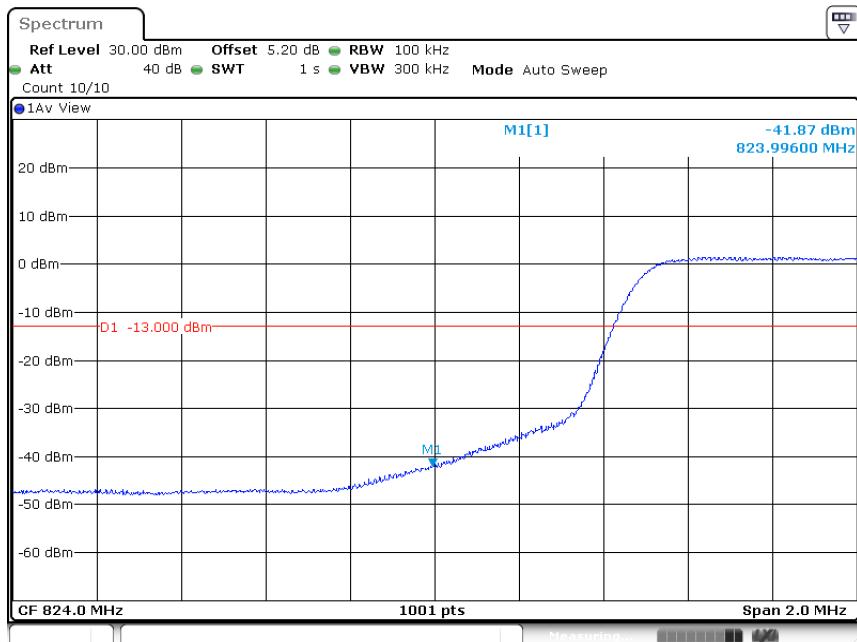
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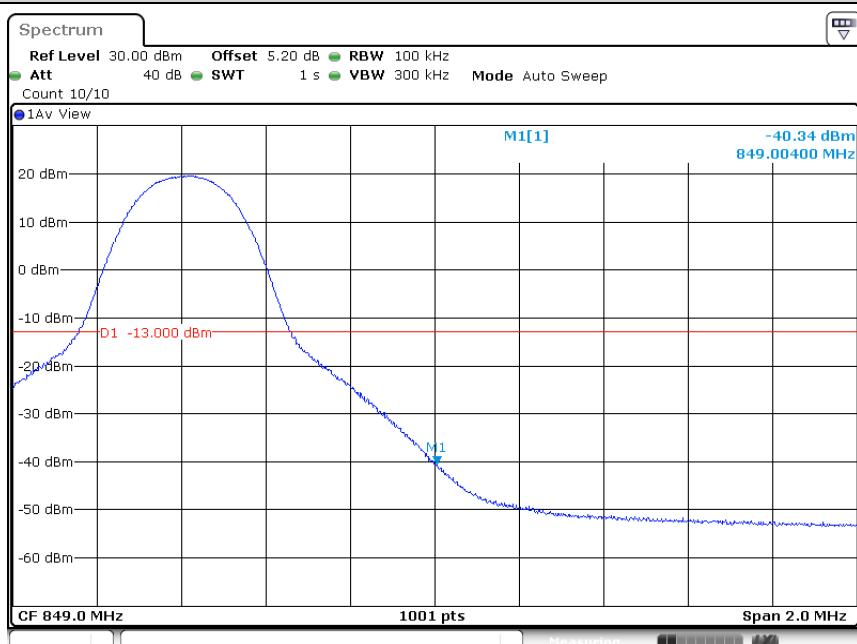
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## Band5-10MHz-64QAM-20450-50RB#0



Date: 22.SEP.2020 19:14:25

## Band5-10MHz-64QAM-20600-1RB#49



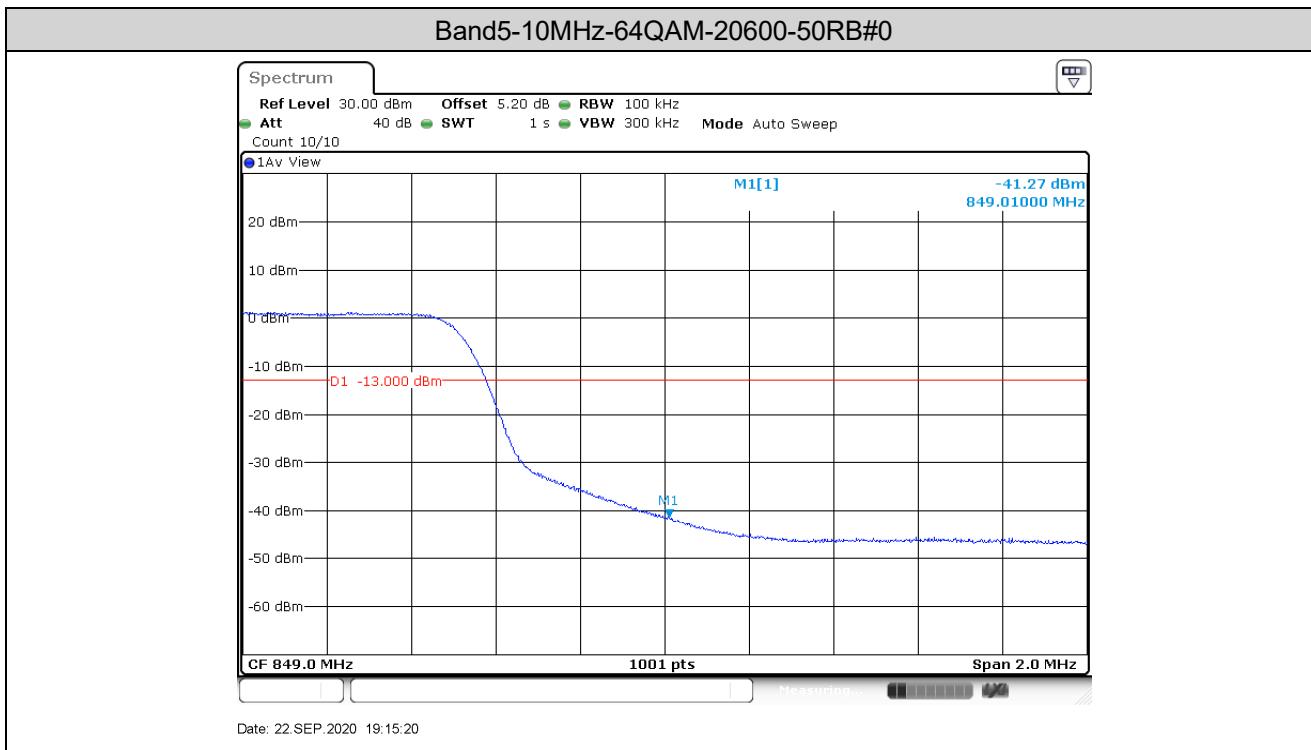
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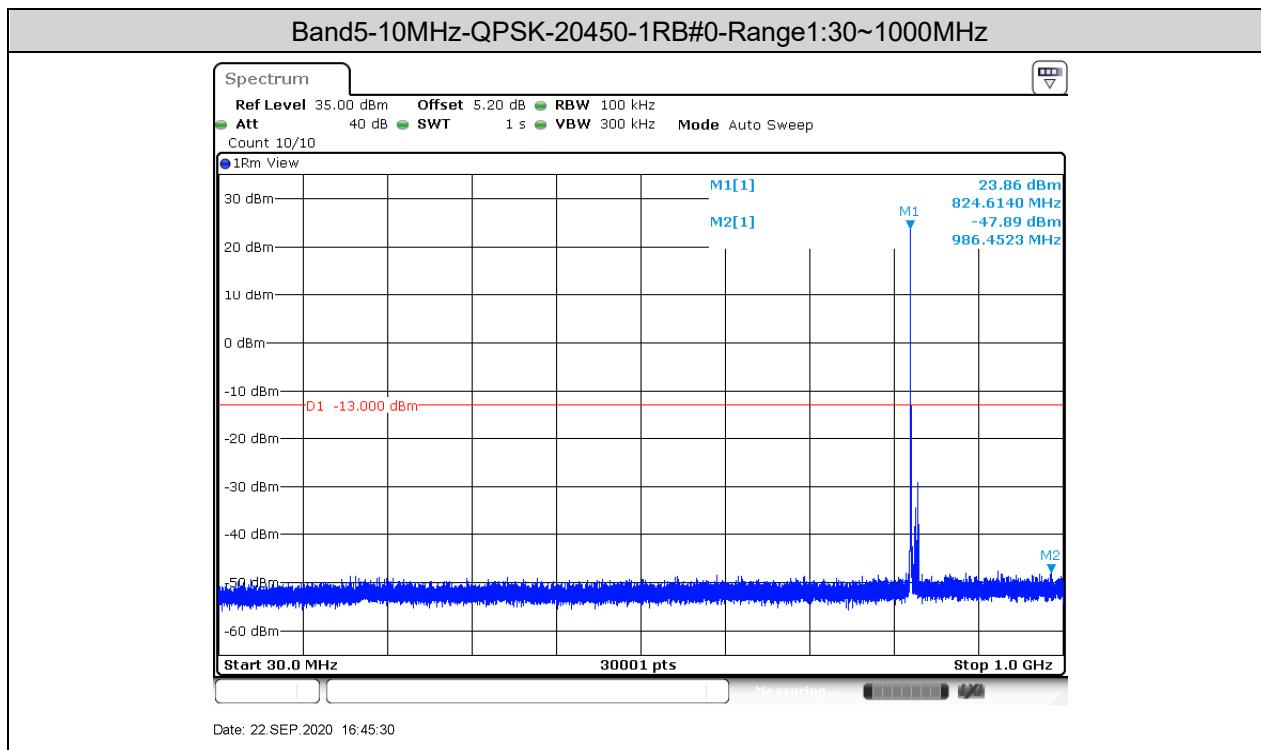
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## 6. Spurious Emission at Antenna Terminal

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  $< \text{RBW}/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / \text{RBW})$ " 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

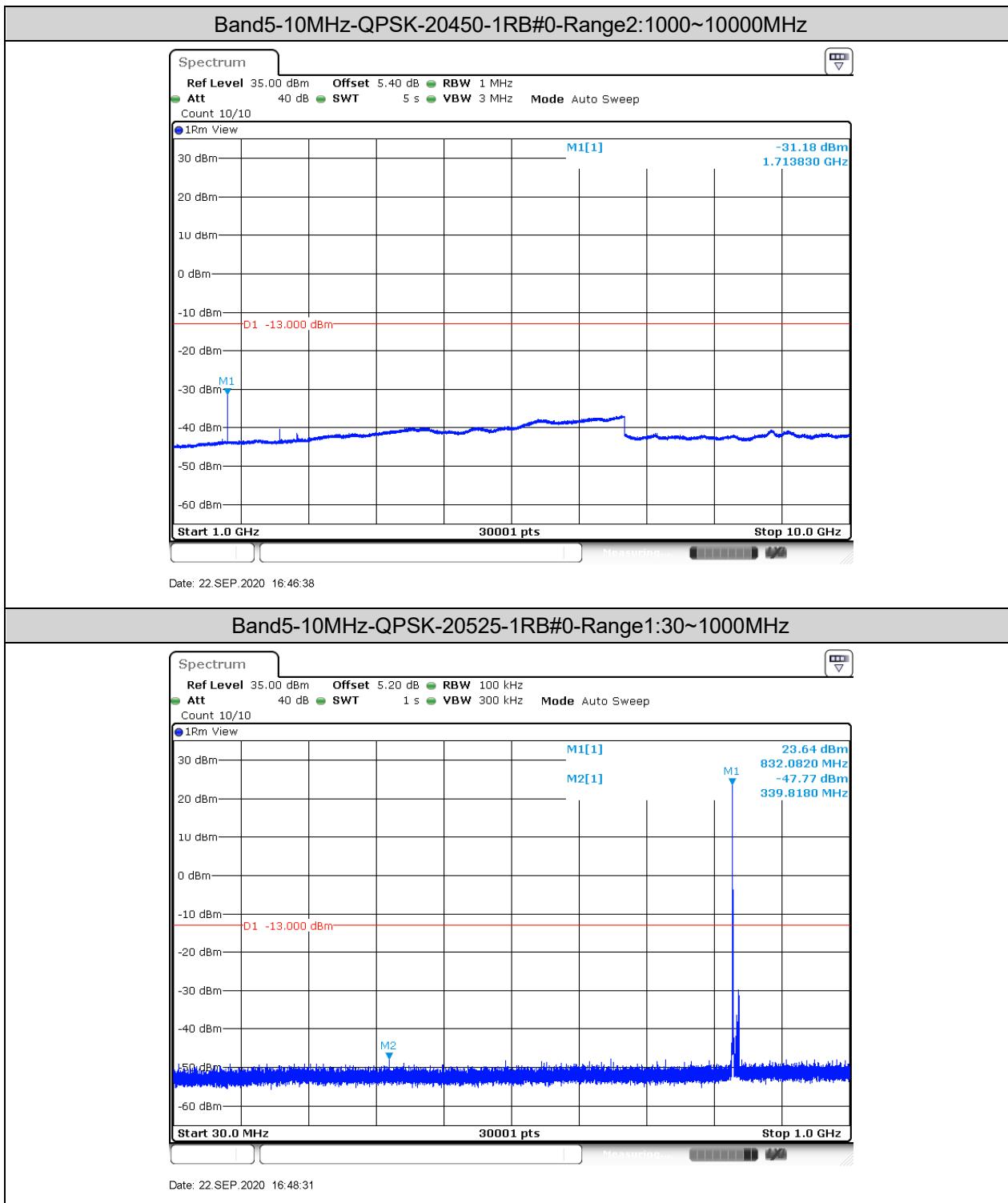


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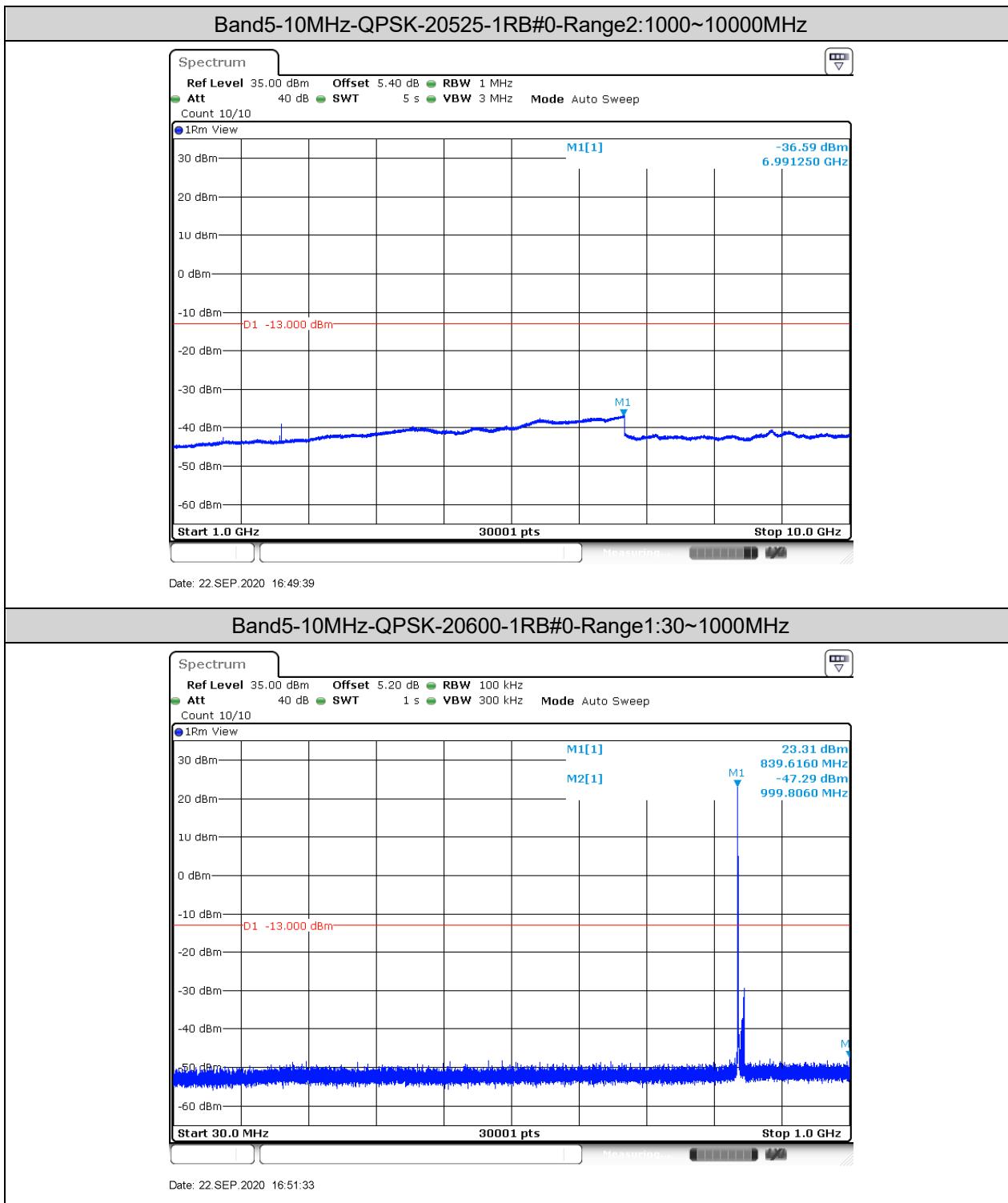


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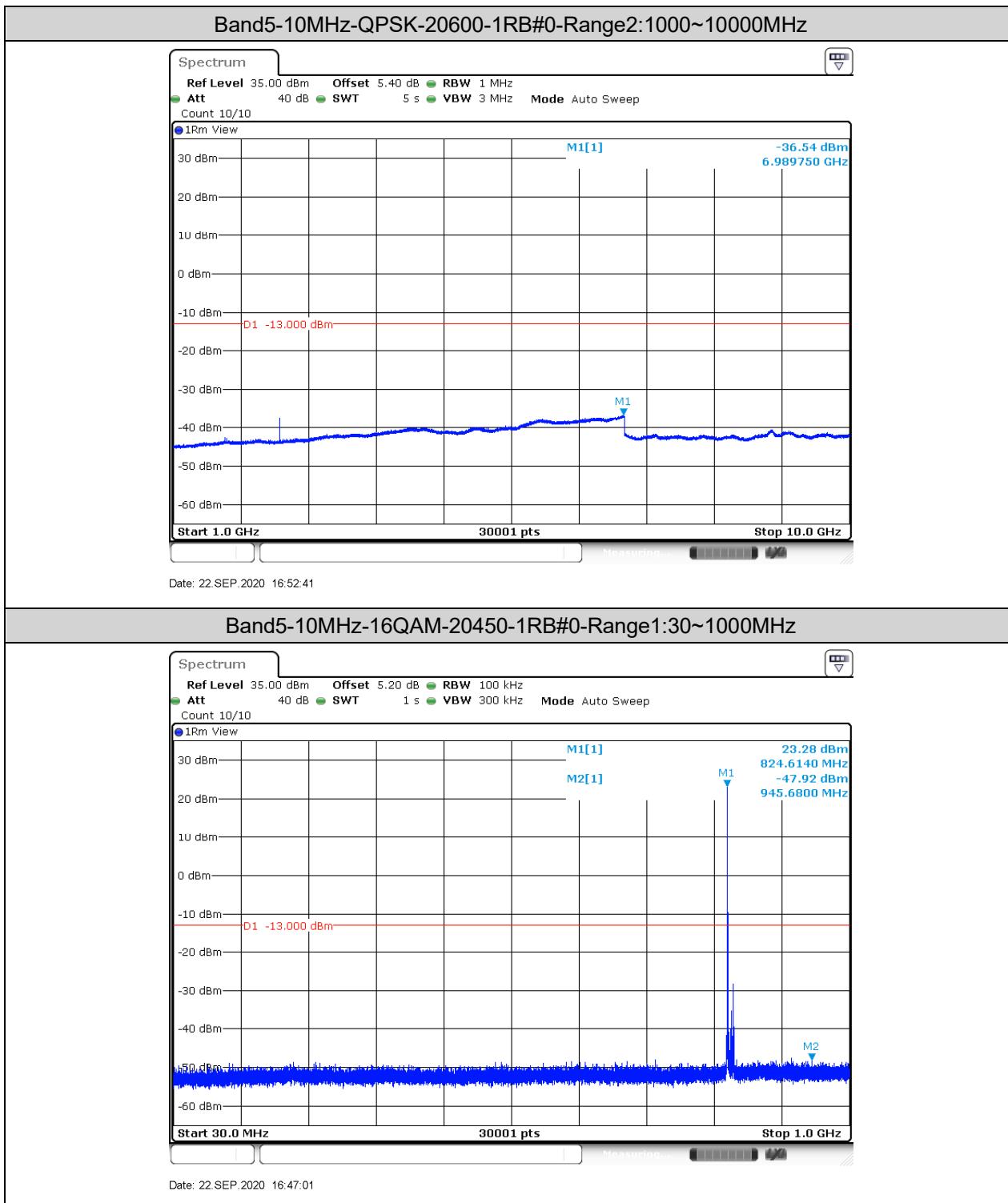
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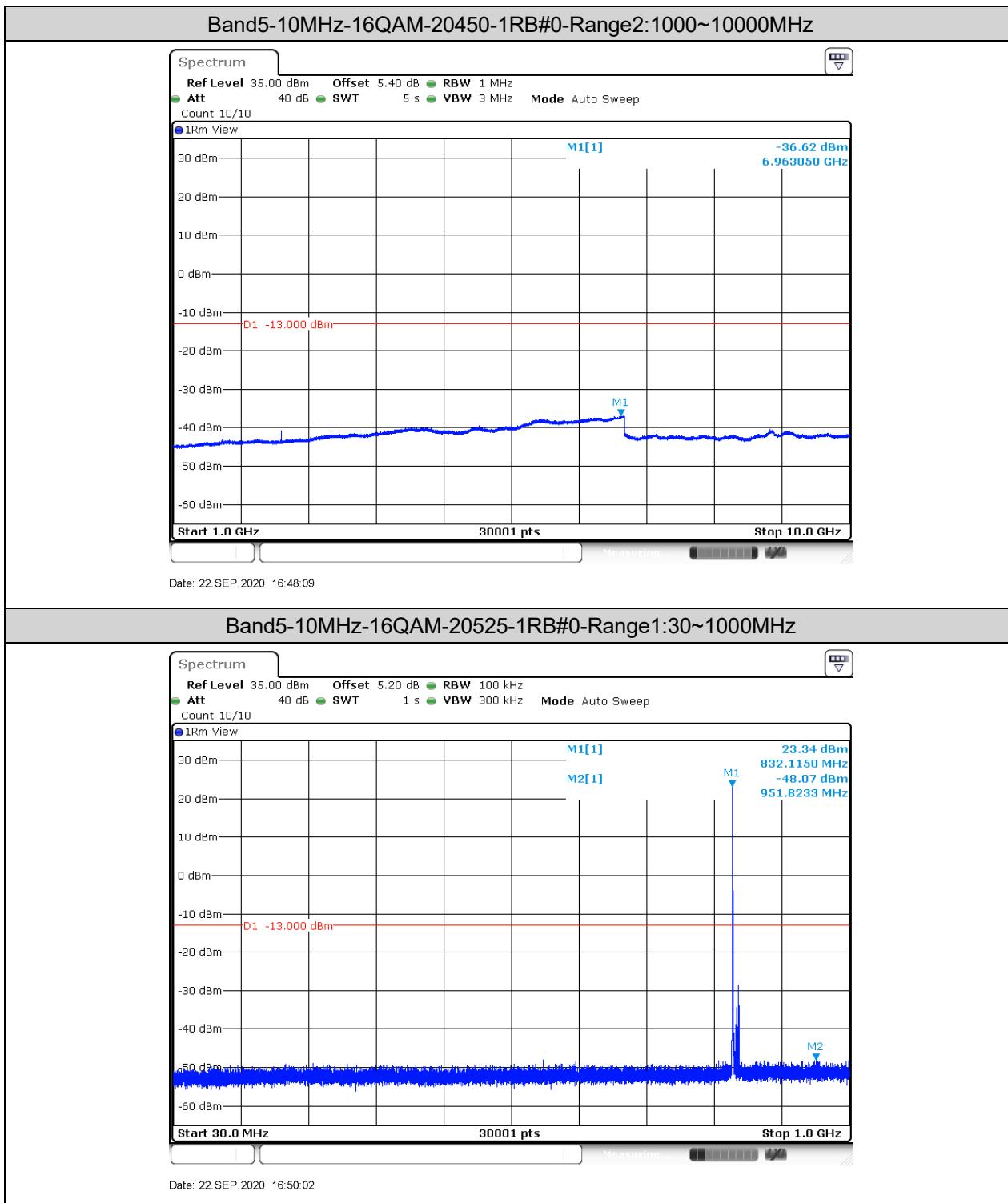




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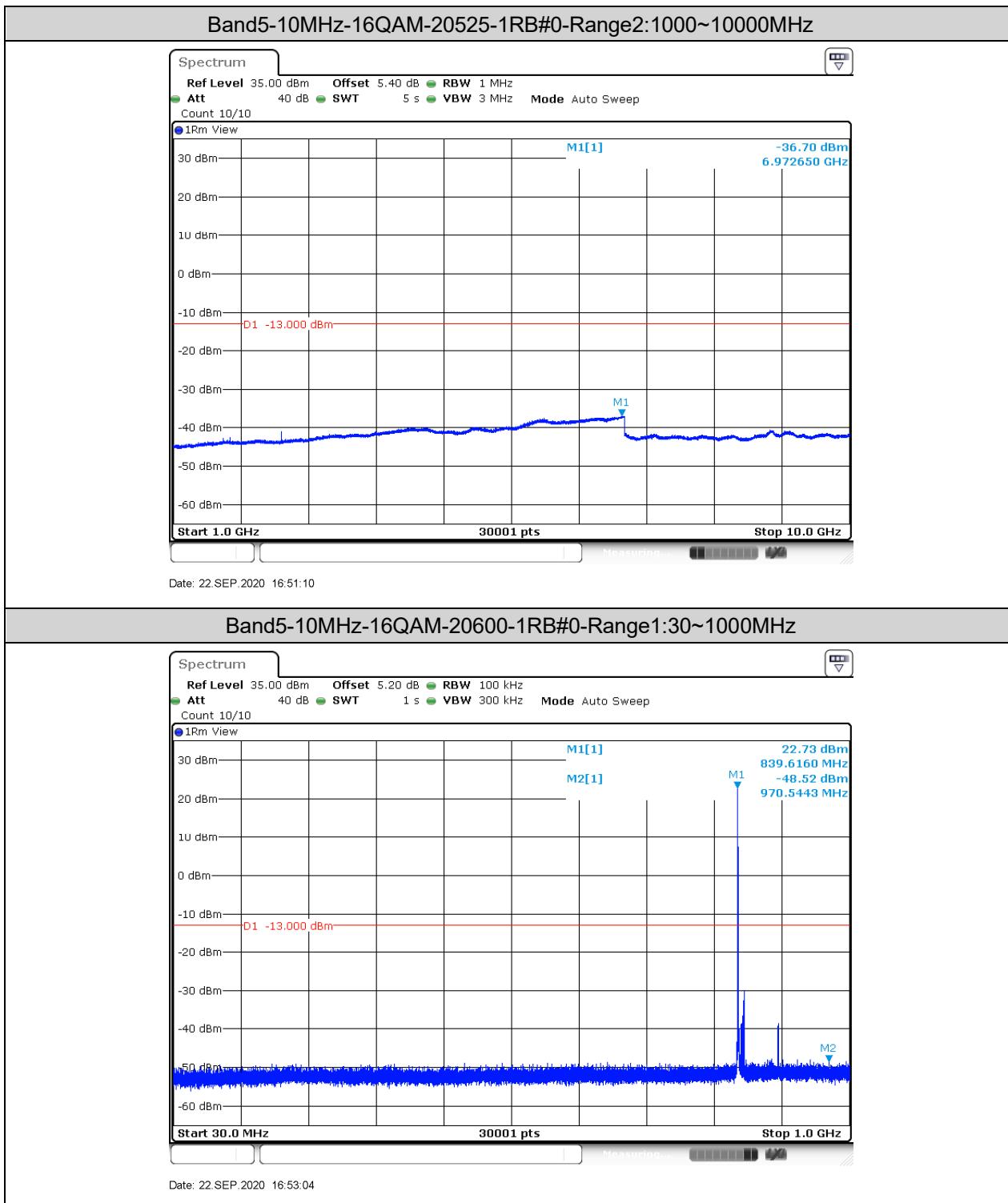


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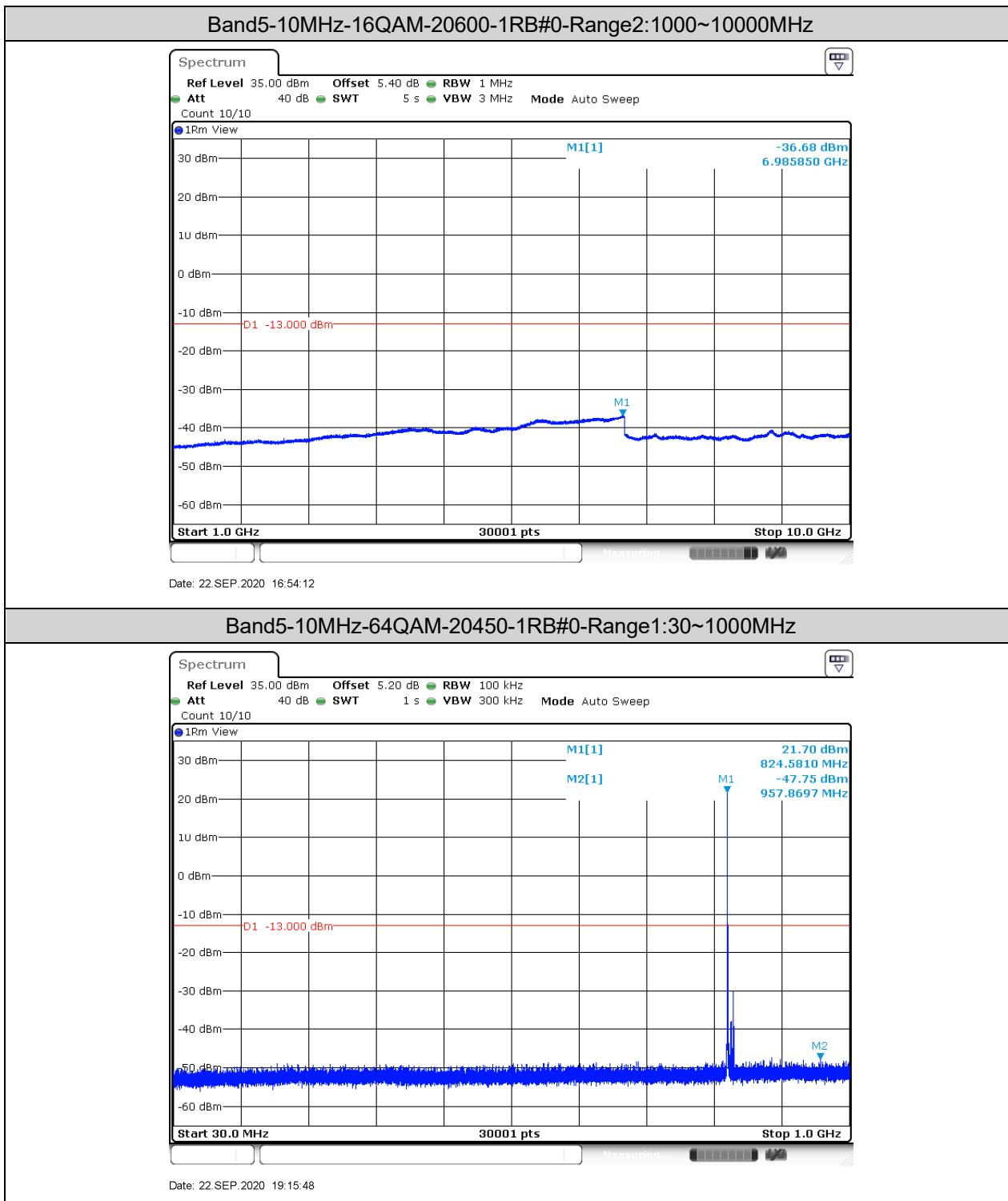
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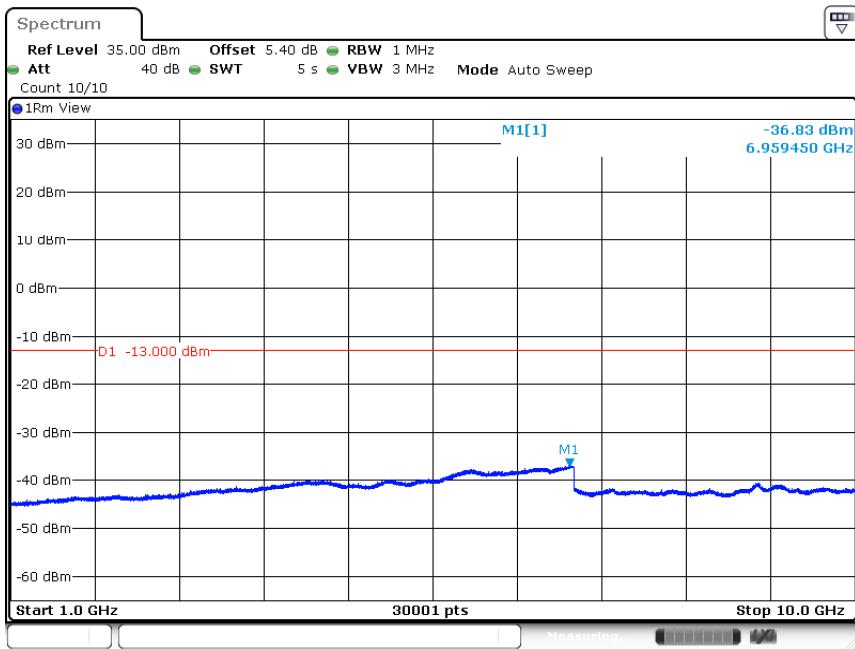


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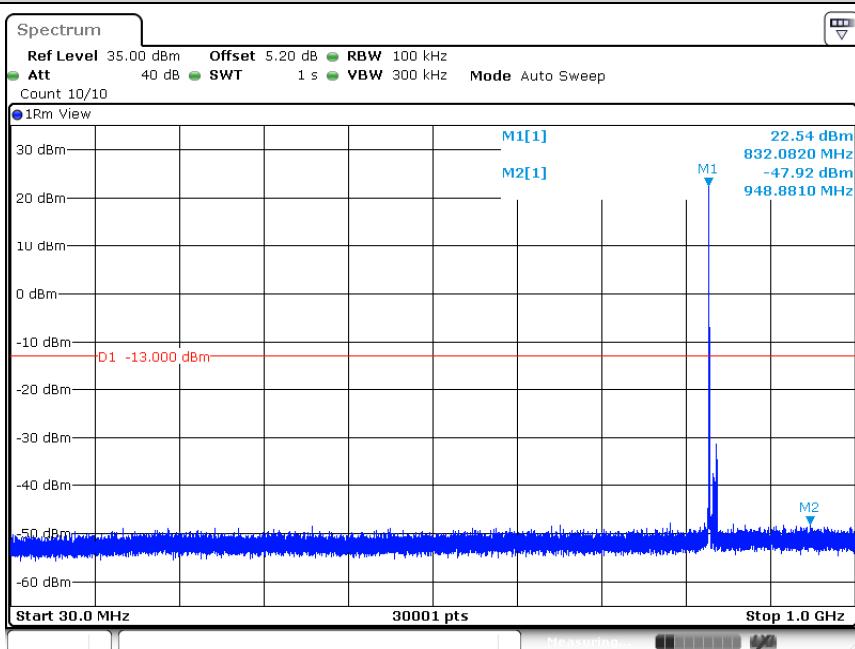
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## Band5-10MHz-64QAM-20525-1RB#0-Range1:30~1000MHz

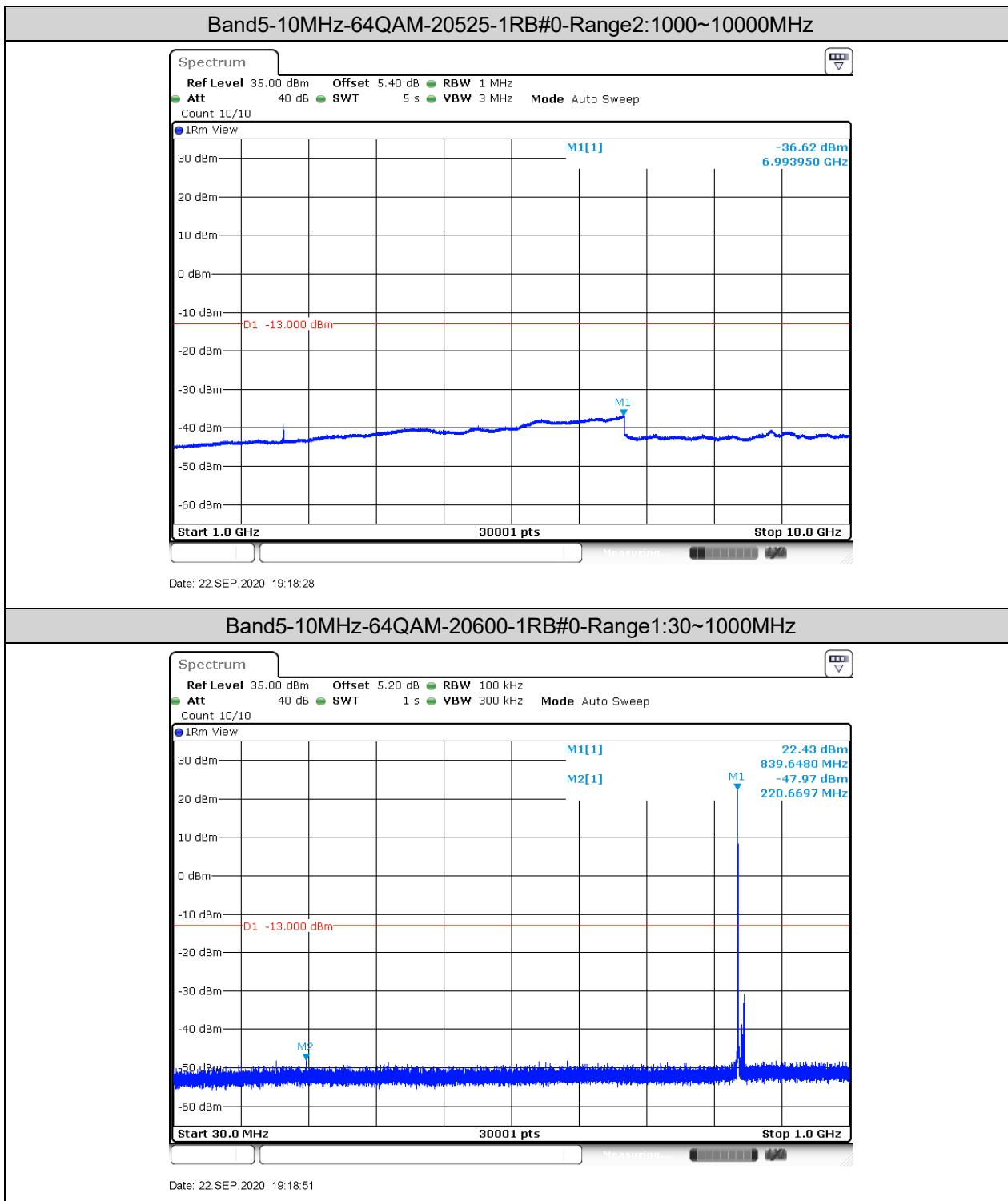


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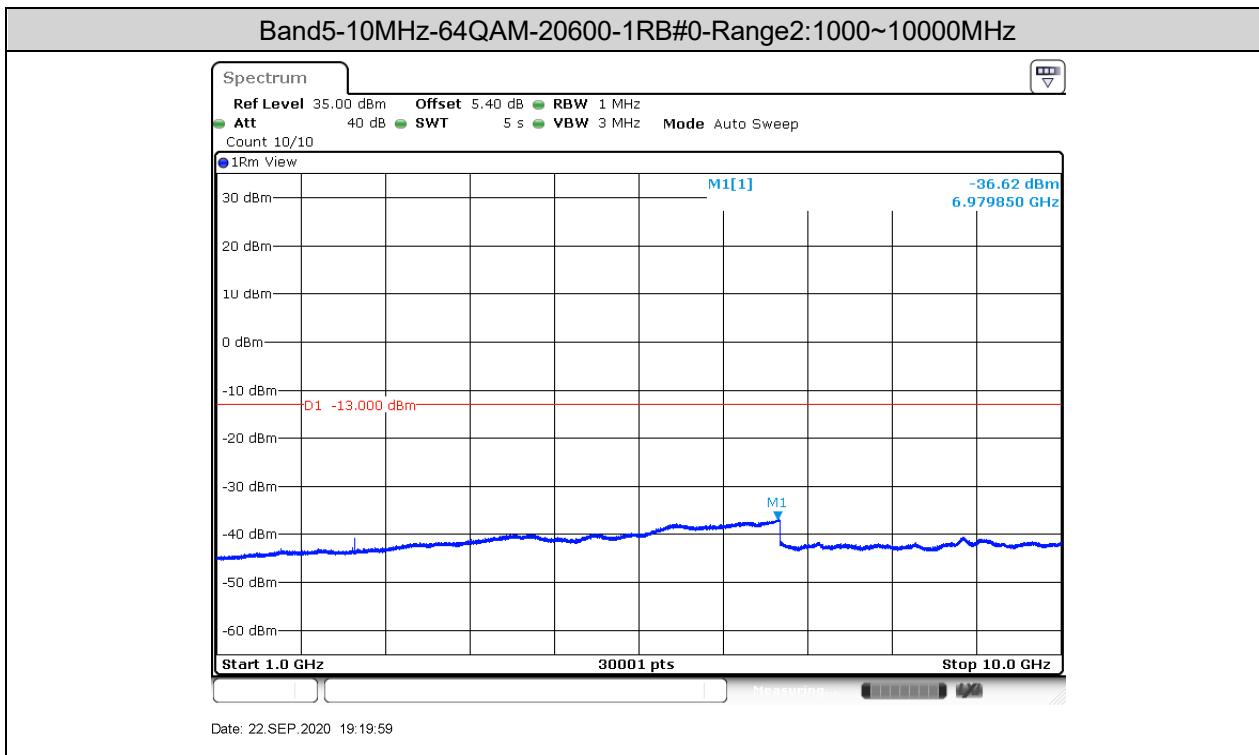
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## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1 10MHz

#### 7.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 57.673333       | -74.45      | -13.00           | 61.45       | Vertical     |
| 315.740000      | -83.43      | -13.00           | 70.43       | Vertical     |
| 605.145833      | -76.67      | -13.00           | 63.67       | Vertical     |
| 1649.000000     | -60.09      | -13.00           | 47.09       | Vertical     |
| 2473.500000     | -55.30      | -13.00           | 42.30       | Vertical     |
| 4122.712500     | -57.95      | -13.00           | 44.95       | Vertical     |
| 57.953333       | -73.36      | -13.00           | 60.36       | Horizontal   |
| 188.573333      | -81.26      | -13.00           | 68.26       | Horizontal   |
| 602.716667      | -76.17      | -13.00           | 63.17       | Horizontal   |
| 1649.000000     | -62.30      | -13.00           | 49.30       | Horizontal   |
| 2473.500000     | -56.66      | -13.00           | 43.66       | Horizontal   |
| 4122.712500     | -56.49      | -13.00           | 43.49       | Horizontal   |

#### 7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 57.860000       | -74.43      | -13.00           | 61.43       | Vertical     |
| 124.966667      | -84.26      | -13.00           | 71.26       | Vertical     |
| 324.606667      | -83.84      | -13.00           | 70.84       | Vertical     |
| 1664.000000     | -60.58      | -13.00           | 47.58       | Vertical     |
| 2496.000000     | -53.51      | -13.00           | 40.51       | Vertical     |
| 4160.250000     | -56.60      | -13.00           | 43.60       | Vertical     |
| 57.486667       | -73.08      | -13.00           | 60.08       | Horizontal   |
| 186.706667      | -81.02      | -13.00           | 68.02       | Horizontal   |
| 605.695833      | -76.19      | -13.00           | 63.19       | Horizontal   |
| 1664.000000     | -62.84      | -13.00           | 49.84       | Horizontal   |
| 2496.000000     | -55.25      | -13.00           | 42.25       | Horizontal   |
| 4160.250000     | -54.09      | -13.00           | 41.09       | Horizontal   |

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### 7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 65.233333       | -78.65      | -13.00           | 65.65       | Vertical     |
| 124.966667      | -84.96      | -13.00           | 71.96       | Vertical     |
| 613.716667      | -76.42      | -13.00           | 63.42       | Vertical     |
| 1679.000000     | -58.41      | -13.00           | 45.41       | Vertical     |
| 2518.500000     | -51.42      | -13.00           | 38.42       | Vertical     |
| 4197.787500     | -54.32      | -13.00           | 41.32       | Vertical     |
| 56.506667       | -75.33      | -13.00           | 62.33       | Horizontal   |
| 207.566667      | -84.55      | -13.00           | 71.55       | Horizontal   |
| 621.462500      | -75.55      | -13.00           | 62.55       | Horizontal   |
| 1679.500000     | -62.15      | -13.00           | 49.15       | Horizontal   |
| 2518.500000     | -54.70      | -13.00           | 41.70       | Horizontal   |
| 4197.787500     | -51.81      | -13.00           | 38.81       | 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 displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage       |                  |                |                 |             |      | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|------|---------|
|       |           |            |         |              | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) |      |         |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0       | VL            | NT               | 3.90           | 0.004704        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0       | VN            | NT               | 11.40          | 0.013752        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0       | VH            | NT               | 7.50           | 0.009047        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0       | VL            | NT               | -0.70          | -0.000837       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0       | VN            | NT               | -4.20          | -0.005021       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0       | VH            | NT               | -3.00          | -0.003586       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0       | VL            | NT               | -3.80          | -0.004502       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0       | VN            | NT               | -0.60          | -0.000711       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0       | VH            | NT               | -3.40          | -0.004028       | ±2.5        | PASS |         |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0       | VL            | NT               | 5.40           | 0.006514        | ±2.5        | PASS |         |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0       | VN            | NT               | 6.40           | 0.007720        | ±2.5        | PASS |         |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0       | VH            | NT               | 5.00           | 0.006031        | ±2.5        | PASS |         |
| Band5 | 10MHz     | 16QAM      | 20525   | 50RB#0       | VL            | NT               | -2.00          | -0.002391       | ±2.5        | PASS |         |
| Band5 | 10MHz     | 16QAM      | 20525   | 50RB#0       | VN            | NT               | -1.10          | -0.001315       | ±2.5        | PASS |         |
| Band5 | 10MHz     | 16QAM      | 20525   | 50RB#0       | VH            | NT               | -2.40          | -0.002869       | ±2.5        | PASS |         |
| Band5 | 10MHz     | 16QAM      | 20600   | 50RB#0       | VL            | NT               | -2.00          | -0.002370       | ±2.5        | PASS |         |
| Band5 | 10MHz     | 16QAM      | 20600   | 50RB#0       | VN            | NT               | -1.60          | -0.001896       | ±2.5        | PASS |         |
| Band5 | 10MHz     | 16QAM      | 20600   | 50RB#0       | VH            | NT               | -1.40          | -0.001659       | ±2.5        | PASS |         |
| Band5 | 10MHz     | 64QAM      | 20450   | 50RB#0       | VL            | NT               | 7.30           | 0.008806        | ±2.5        | PASS |         |
| Band5 | 10MHz     | 64QAM      | 20450   | 50RB#0       | VN            | NT               | 7.10           | 0.008565        | ±2.5        | PASS |         |
| Band5 | 10MHz     | 64QAM      | 20450   | 50RB#0       | VH            | NT               | 5.00           | 0.006031        | ±2.5        | PASS |         |
| Band5 | 10MHz     | 64QAM      | 20525   | 50RB#0       | VL            | NT               | 1.00           | 0.001195        | ±2.5        | PASS |         |
| Band5 | 10MHz     | 64QAM      | 20525   | 50RB#0       | VN            | NT               | -2.70          | -0.003228       | ±2.5        | PASS |         |
| Band5 | 10MHz     | 64QAM      | 20525   | 50RB#0       | VH            | NT               | -4.40          | -0.005260       | ±2.5        | PASS |         |
| Band5 | 10MHz     | 64QAM      | 20600   | 50RB#0       | VL            | NT               | -6.60          | -0.007820       | ±2.5        | PASS |         |
| Band5 | 10MHz     | 64QAM      | 20600   | 50RB#0       | VN            | NT               | -5.30          | -0.006280       | ±2.5        | PASS |         |
| Band5 | 10MHz     | 64QAM      | 20600   | 50RB#0       | VH            | NT               | 1.80           | 0.002133        | ±2.5        | PASS |         |

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## 8.2. Frequency Vs Temperature

| Band  | Bandwidth | Modulation | Channel | RB Configure | Temperature   |                  |                |                 |             |      | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|------|---------|
|       |           |            |         |              | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) |      |         |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | -30              | 3.70           | 0.004463        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | -20              | 7.60           | 0.009168        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | -10              | 1.00           | 0.001206        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | 0                | 8.10           | 0.009771        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | 10               | 8.50           | 0.010253        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | 20               | 7.00           | 0.008444        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | 30               | 5.00           | 0.006031        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | 40               | 2.90           | 0.003498        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | 50               | 9.80           | 0.011821        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | -30              | -5.80          | -0.006934       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | -20              | 1.30           | 0.001554        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | -10              | -2.20          | -0.002630       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 0                | -4.40          | -0.005260       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 10               | -6.70          | -0.008010       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 20               | 0.20           | 0.000239        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 30               | -2.70          | -0.003228       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 40               | -4.40          | -0.005260       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 50               | -5.60          | -0.006695       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | -30              | -3.30          | -0.003910       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | -20              | 1.40           | 0.001659        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | -10              | -2.00          | -0.002370       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | 0                | -5.00          | -0.005924       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | 10               | 1.10           | 0.001303        | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | 20               | -1.70          | -0.002014       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | 30               | -4.00          | -0.004739       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | 40               | -6.30          | -0.007464       | ±2.5        | PASS |         |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | 50               | 0.80           | 0.000948        | ±2.5        | PASS |         |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0       | NV            | -30              | 5.10           | 0.006152        | ±2.5        | PASS |         |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0       | NV            | -20              | 4.20           | 0.005066        | ±2.5        | PASS |         |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0       | NV            | -10              | 2.60           | 0.003136        | ±2.5        | PASS |         |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0       | NV            | 0                | 1.30           | 0.001568        | ±2.5        | PASS |         |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0       | NV            | 10               | 7.10           | 0.008565        | ±2.5        | PASS |         |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0       | NV            | 20               | 7.20           | 0.008685        | ±2.5        | PASS |         |

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|       |       |       |       |        |    |     |       |           |      |      |
|-------|-------|-------|-------|--------|----|-----|-------|-----------|------|------|
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 30  | 6.20  | 0.007479  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 40  | 4.40  | 0.005308  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 50  | 11.50 | 0.013872  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | -30 | -3.40 | -0.004065 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | -20 | -3.40 | -0.004065 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | -10 | -4.20 | -0.005021 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 0   | -5.20 | -0.006216 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 10  | -6.10 | -0.007292 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 20  | -1.30 | -0.001554 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 30  | -5.00 | -0.005977 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 40  | 0.10  | 0.000120  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 50  | -0.60 | -0.000717 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | -30 | -1.80 | -0.002133 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | -20 | -0.80 | -0.000948 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | -10 | 0.10  | 0.000118  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 0   | 0.90  | 0.001066  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 10  | -7.30 | -0.008649 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 20  | 2.30  | 0.002725  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 30  | -5.20 | -0.006161 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 40  | -4.90 | -0.005806 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 50  | -3.00 | -0.003555 | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 50RB#0 | NV | -30 | 6.80  | 0.008203  | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 50RB#0 | NV | -20 | 6.80  | 0.008203  | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 50RB#0 | NV | -10 | 7.20  | 0.008685  | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 50RB#0 | NV | 0   | 3.10  | 0.003739  | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 50RB#0 | NV | 10  | 5.40  | 0.006514  | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 50RB#0 | NV | 20  | 5.80  | 0.006996  | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 50RB#0 | NV | 30  | 6.50  | 0.007841  | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 50RB#0 | NV | 40  | 3.10  | 0.003739  | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 50RB#0 | NV | 50  | 6.20  | 0.007479  | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 50RB#0 | NV | -30 | -0.90 | -0.001076 | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 50RB#0 | NV | -20 | -6.50 | -0.007770 | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 50RB#0 | NV | -10 | 1.40  | 0.001674  | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 50RB#0 | NV | 0   | -1.60 | -0.001913 | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 50RB#0 | NV | 10  | -6.60 | -0.007890 | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 50RB#0 | NV | 20  | -4.60 | -0.005499 | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 50RB#0 | NV | 30  | -1.40 | -0.001674 | ±2.5 | PASS |

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|       |       |       |       |        |    |     |       |           |      |      |
|-------|-------|-------|-------|--------|----|-----|-------|-----------|------|------|
| Band5 | 10MHz | 64QAM | 20525 | 50RB#0 | NV | 40  | -7.20 | -0.008607 | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 50RB#0 | NV | 50  | -4.50 | -0.005380 | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 50RB#0 | NV | -30 | -5.10 | -0.006043 | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 50RB#0 | NV | -20 | 1.10  | 0.001303  | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 50RB#0 | NV | -10 | -1.20 | -0.001422 | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 50RB#0 | NV | 0   | -6.30 | -0.007464 | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 50RB#0 | NV | 10  | -2.60 | -0.003081 | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 50RB#0 | NV | 20  | -5.40 | -0.006398 | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 50RB#0 | NV | 30  | -4.20 | -0.004976 | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 50RB#0 | NV | 40  | -2.80 | -0.003318 | ±2.5 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 50RB#0 | NV | 50  | -1.50 | -0.001777 | ±2.5 | PASS |

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