



Appendix B

E-UTRA Band 5



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Conducted Power(dBm) | ERP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|----------------------|-----------|-------------|---------|
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | 23.10 | 23.24 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#2 | 22.81 | 22.95 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#5 | 22.88 | 23.02 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#0 | 22.82 | 22.96 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#1 | 22.83 | 22.97 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#3 | 23.16 | 23.30 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 21.89 | 22.03 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | 22.84 | 22.98 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#2 | 23.19 | 23.33 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#5 | 23.19 | 23.33 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#0 | 22.95 | 23.09 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#1 | 23.03 | 23.17 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#3 | 23.06 | 23.20 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 21.99 | 22.13 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | 23.00 | 23.14 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#2 | 22.81 | 22.95 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#5 | 23.00 | 23.14 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#0 | 22.89 | 23.03 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#1 | 23.17 | 23.31 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#3 | 23.04 | 23.18 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 22.02 | 22.16 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | 21.89 | 22.03 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#2 | 22.18 | 22.32 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#5 | 22.17 | 22.31 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#0 | 21.97 | 22.11 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#1 | 22.09 | 22.23 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#3 | 22.08 | 22.22 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 20.89 | 21.03 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | 22.05 | 22.19 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#2 | 22.18 | 22.32 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#5 | 22.17 | 22.31 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#0 | 21.96 | 22.10 | 38.45 | PASS |



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| | | | | | | | | |
|-------|--------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#1 | 22.12 | 22.26 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#3 | 21.95 | 22.09 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 20.86 | 21.00 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | 22.17 | 22.31 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#2 | 22.12 | 22.26 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#5 | 21.82 | 21.96 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#0 | 22.02 | 22.16 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#1 | 22.10 | 22.24 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#3 | 21.92 | 22.06 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 21.02 | 21.16 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | 23.05 | 23.19 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#8 | 22.86 | 23.00 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#14 | 23.13 | 23.27 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#0 | 21.87 | 22.01 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#4 | 21.90 | 22.04 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#7 | 22.11 | 22.25 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 22.04 | 22.18 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | 23.05 | 23.19 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#8 | 23.07 | 23.21 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#14 | 22.92 | 23.06 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#0 | 22.01 | 22.15 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#4 | 22.14 | 22.28 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#7 | 21.87 | 22.01 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 22.19 | 22.33 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | 22.99 | 23.13 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#8 | 22.92 | 23.06 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#14 | 23.19 | 23.33 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#0 | 21.97 | 22.11 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#4 | 22.08 | 22.22 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#7 | 22.03 | 22.17 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 21.96 | 22.10 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 21.95 | 22.09 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#8 | 22.05 | 22.19 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#14 | 22.19 | 22.33 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#0 | 21.19 | 21.33 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#4 | 20.95 | 21.09 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#7 | 21.08 | 21.22 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 20.95 | 21.09 | 38.45 | PASS |



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| | | | | | | | | |
|-------|------|-------|-------|---------|-------|-------|-------|------|
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 22.10 | 22.24 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#8 | 21.81 | 21.95 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#14 | 22.06 | 22.20 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#0 | 21.05 | 21.19 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#4 | 21.14 | 21.28 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#7 | 20.98 | 21.12 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 20.90 | 21.04 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 21.80 | 21.94 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#8 | 22.03 | 22.17 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#14 | 22.09 | 22.23 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#0 | 20.99 | 21.13 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#4 | 21.18 | 21.32 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#7 | 20.97 | 21.11 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 20.84 | 20.98 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | 22.97 | 23.11 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#12 | 23.03 | 23.17 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#24 | 23.13 | 23.27 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#0 | 21.81 | 21.95 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#6 | 22.10 | 22.24 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#13 | 21.87 | 22.01 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 22.19 | 22.33 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | 23.02 | 23.16 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#12 | 22.81 | 22.95 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#24 | 22.80 | 22.94 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#0 | 22.13 | 22.27 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#6 | 22.13 | 22.27 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#13 | 21.98 | 22.12 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 22.09 | 22.23 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | 22.98 | 23.12 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#12 | 22.96 | 23.10 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#24 | 23.07 | 23.21 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#0 | 21.95 | 22.09 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#6 | 22.13 | 22.27 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#13 | 22.14 | 22.28 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 21.92 | 22.06 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 22.07 | 22.21 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#12 | 22.14 | 22.28 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24 | 21.86 | 22.00 | 38.45 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band5 | 5MHz | 16QAM | 20425 | 12RB#0 | 21.06 | 21.20 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#6 | 21.09 | 21.23 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#13 | 20.80 | 20.94 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 21.08 | 21.22 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 21.93 | 22.07 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#12 | 22.01 | 22.15 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#24 | 22.19 | 22.33 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#0 | 21.16 | 21.30 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#6 | 20.89 | 21.03 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#13 | 20.87 | 21.01 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 20.89 | 21.03 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | 21.89 | 22.03 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#12 | 21.99 | 22.13 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#24 | 21.91 | 22.05 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#0 | 21.00 | 21.14 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#6 | 20.89 | 21.03 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#13 | 20.94 | 21.08 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 20.96 | 21.10 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | 23.12 | 23.26 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#24 | 23.06 | 23.20 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#49 | 23.11 | 23.25 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#0 | 22.06 | 22.20 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#12 | 22.11 | 22.25 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#25 | 21.94 | 22.08 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 21.91 | 22.05 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | 23.05 | 23.19 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#24 | 23.00 | 23.14 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#49 | 23.14 | 23.28 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#0 | 22.16 | 22.30 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#12 | 21.84 | 21.98 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#25 | 22.05 | 22.19 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 21.99 | 22.13 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | 22.98 | 23.12 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#24 | 22.86 | 23.00 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#49 | 23.06 | 23.20 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#0 | 21.84 | 21.98 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#12 | 21.98 | 22.12 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#25 | 22.11 | 22.25 | 38.45 | PASS |



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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



| | | | | | | | | |
|-------|-------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 21.84 | 21.98 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 22.00 | 22.14 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24 | 22.16 | 22.30 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49 | 21.88 | 22.02 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 27RB#0 | 21.82 | 21.96 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 22.19 | 22.33 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24 | 21.85 | 21.99 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49 | 21.83 | 21.97 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 27RB#0 | 22.02 | 22.16 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 22.05 | 22.19 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24 | 22.10 | 22.24 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49 | 21.89 | 22.03 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 27RB#0 | 21.82 | 21.96 | 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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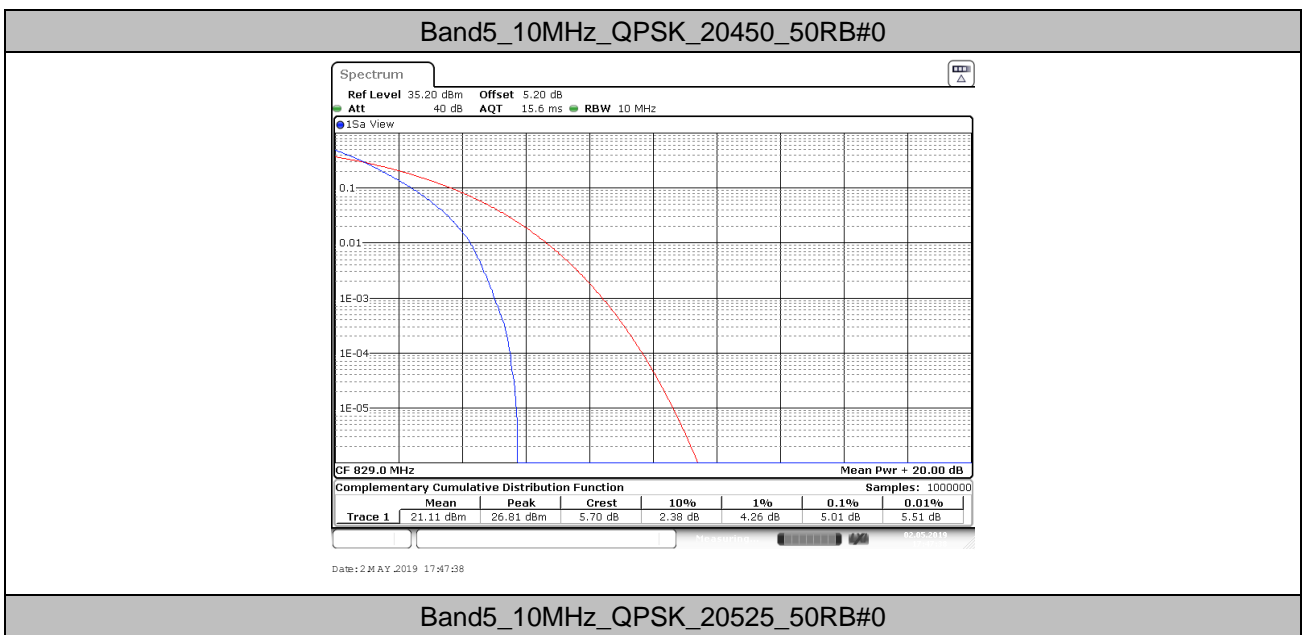


2. Peak-to-Average Ratio(CCDF)

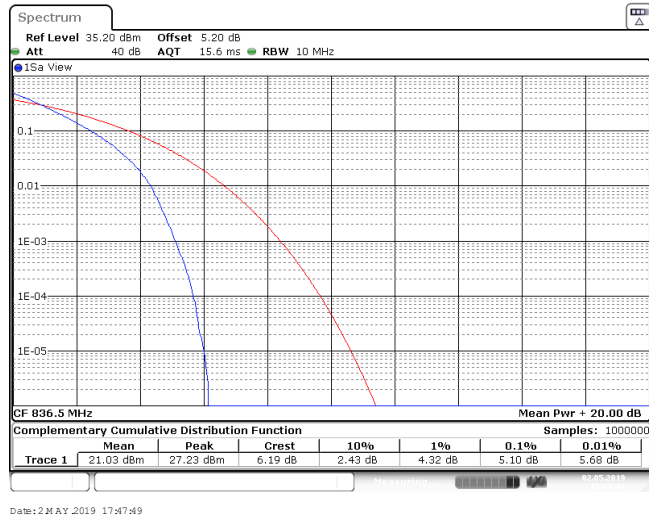
2.1. Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 5.01 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 5.10 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 5.13 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 27RB#0 | 5.62 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 27RB#0 | 5.86 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 27RB#0 | 5.83 | 13 | PASS |

2.2. Test Plots

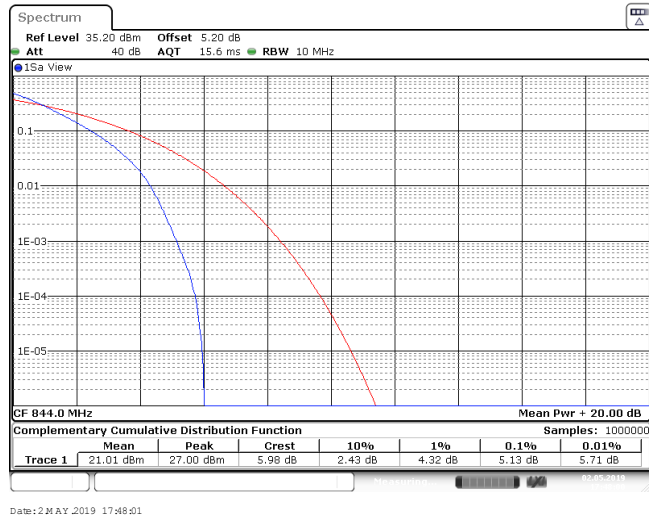


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Date: 2 MAY 2019 17:47:49

Band5_10MHz_QPSK_20600_50RB#0

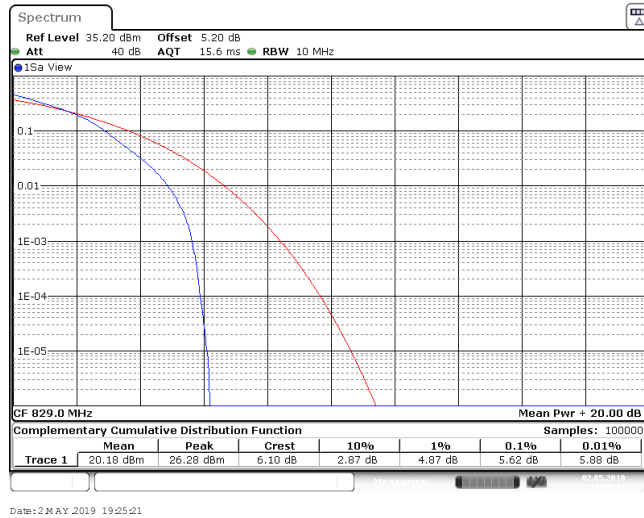


Date: 2 MAY 2019 17:48:01

Band5_10MHz_16QAM_20450_27RB#0

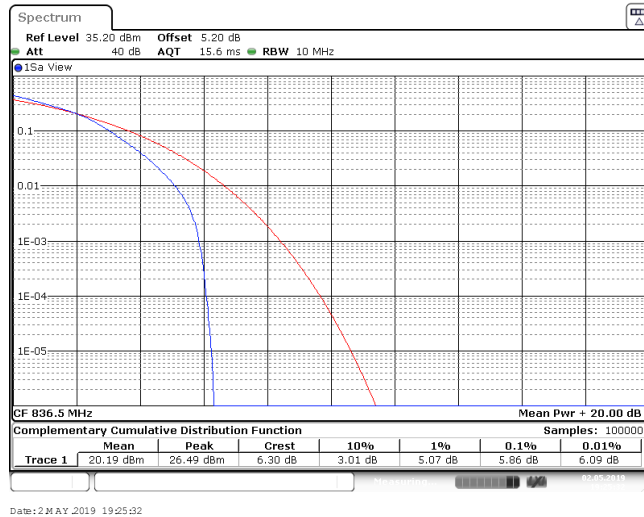


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Date: 2 MAY 2019 19:25:21

Band5_10MHz_16QAM_20525_27RB#0

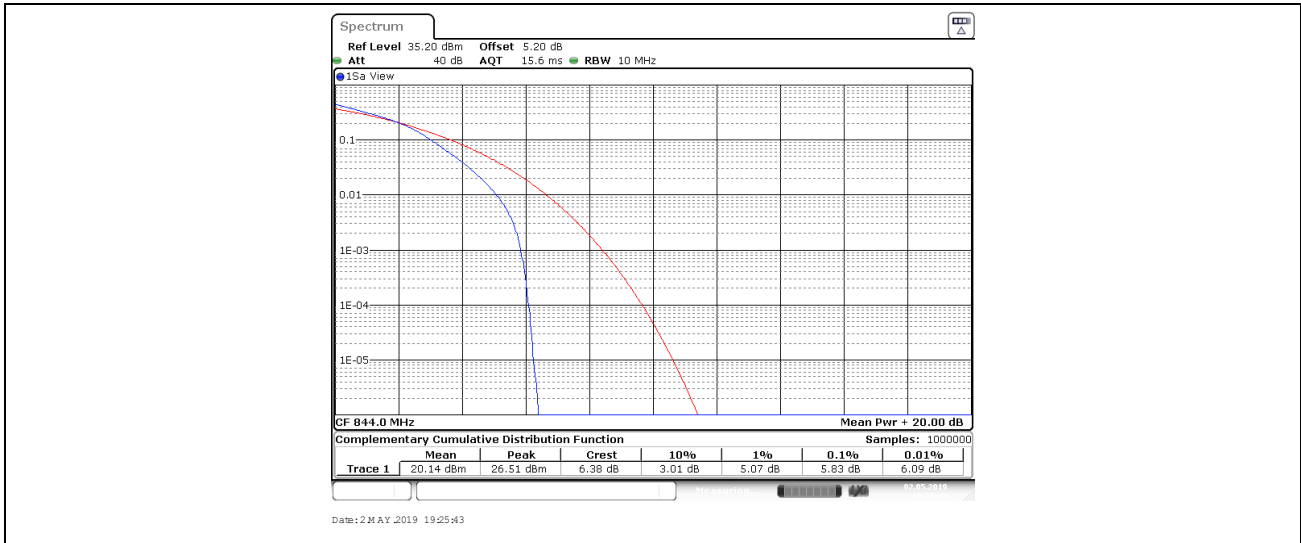


Date: 2 MAY 2019 19:25:32

Band5_10MHz_16QAM_20600_27RB#0



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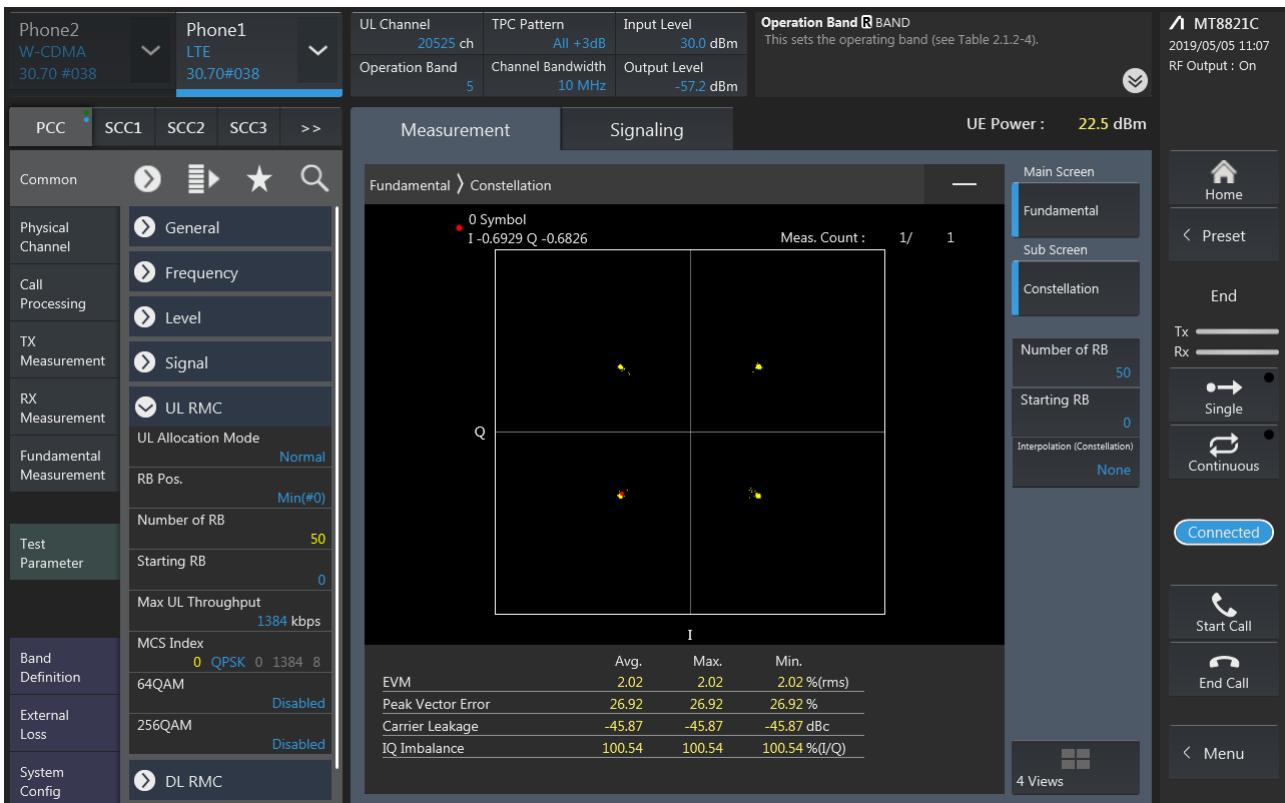
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3. Modulation Characteristics

3.1. Test BAND = LTE Band 5

3.2. Test Mode = LTE /TM1 10MHz

3.2.1. Test Channel = MCH

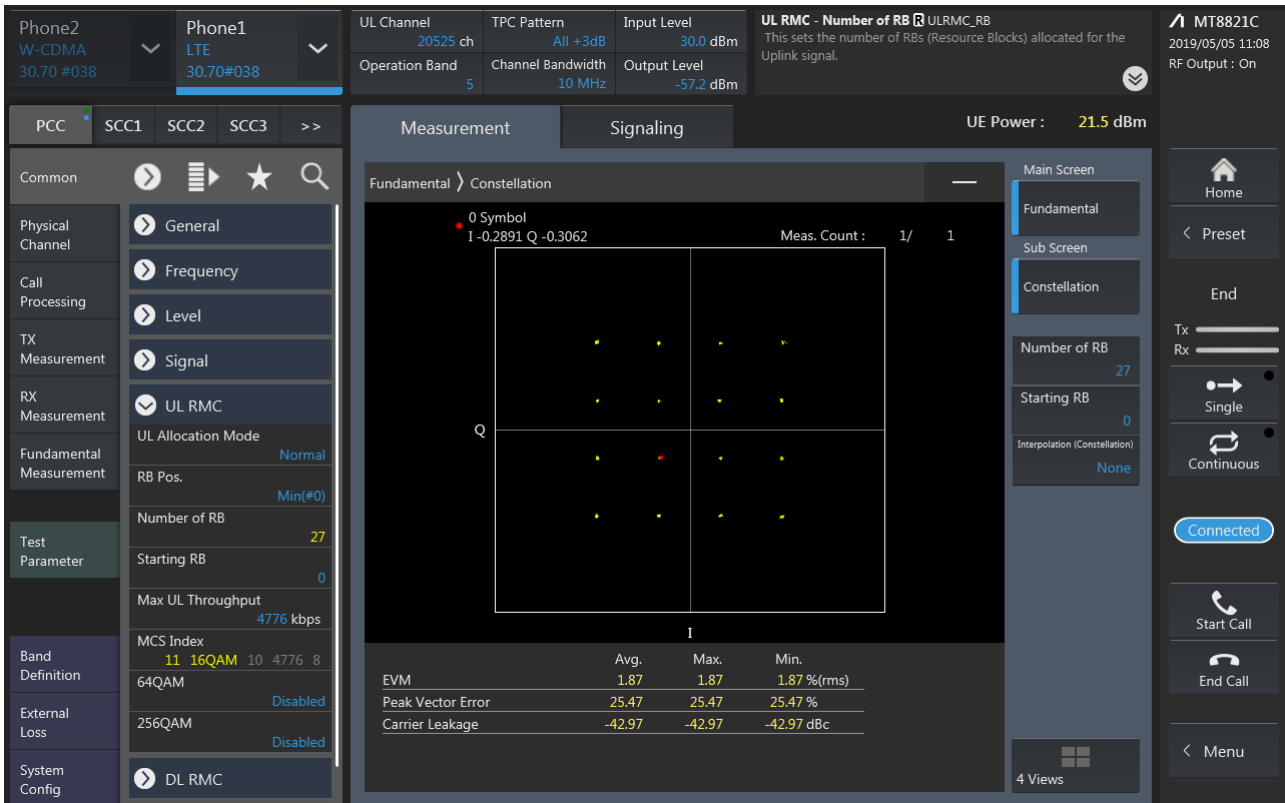


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3.3. Test Mode = LTE /TM2 10MHz

3.3.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

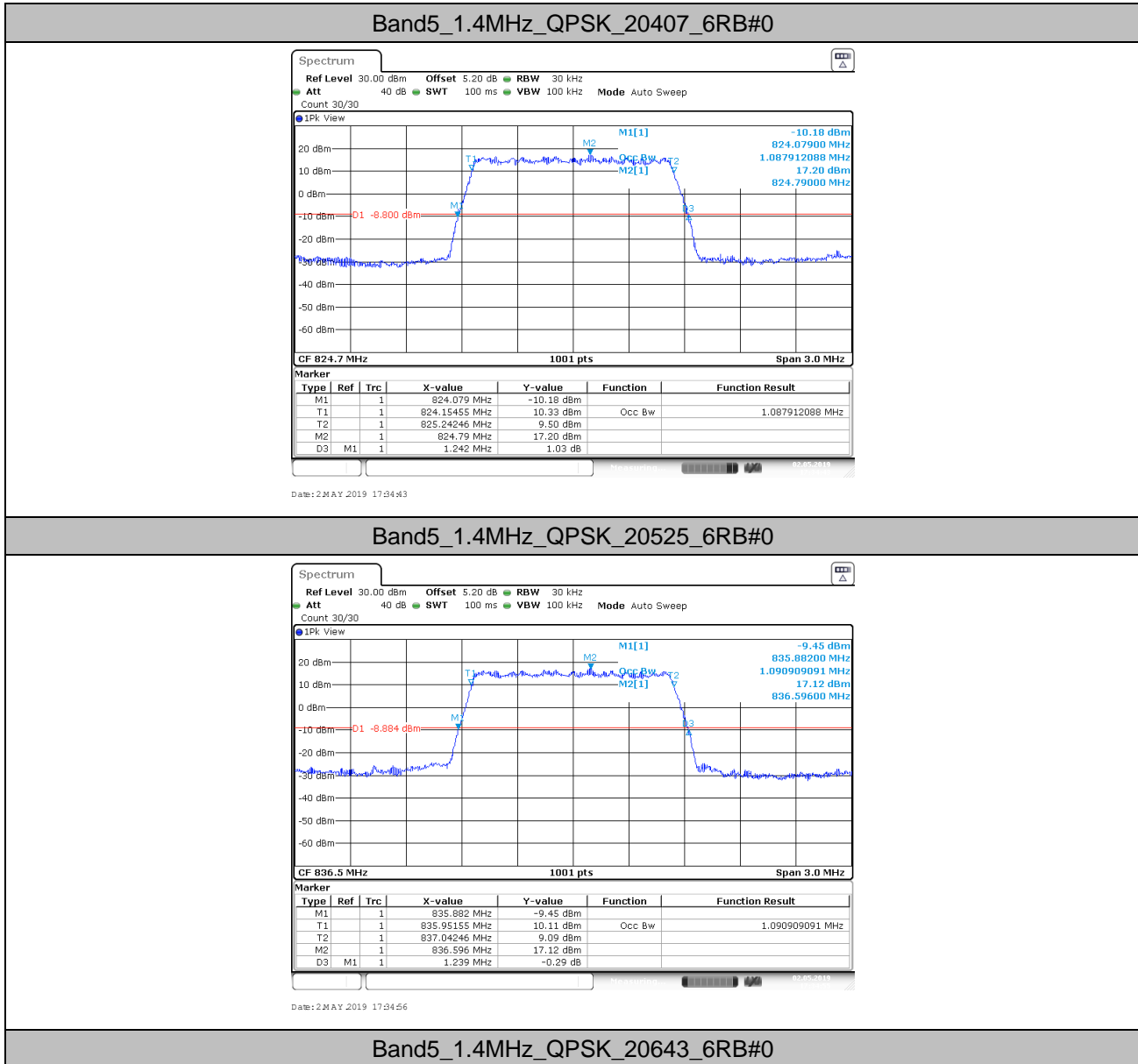
| BAND | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 1.088 | 1.242 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 1.091 | 1.239 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 1.088 | 1.236 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 1.088 | 1.236 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 1.088 | 1.230 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 1.088 | 1.233 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 2.691 | 3.018 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 2.691 | 3.006 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 2.697 | 3.018 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 2.685 | 2.976 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 2.685 | 2.982 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 2.685 | 2.976 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 4.466 | 4.880 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 4.476 | 4.910 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 4.476 | 4.910 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 4.486 | 4.920 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 4.486 | 4.910 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 4.486 | 4.910 | 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 | 8.931 | 9.600 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 27RB#0 | 4.855 | 5.680 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 27RB#0 | 4.875 | 5.720 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 27RB#0 | 4.855 | 5.660 | PASS |



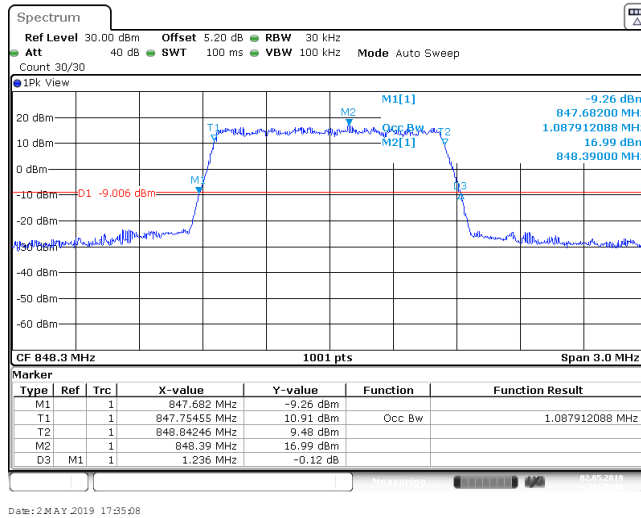
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4.2. Test Plots

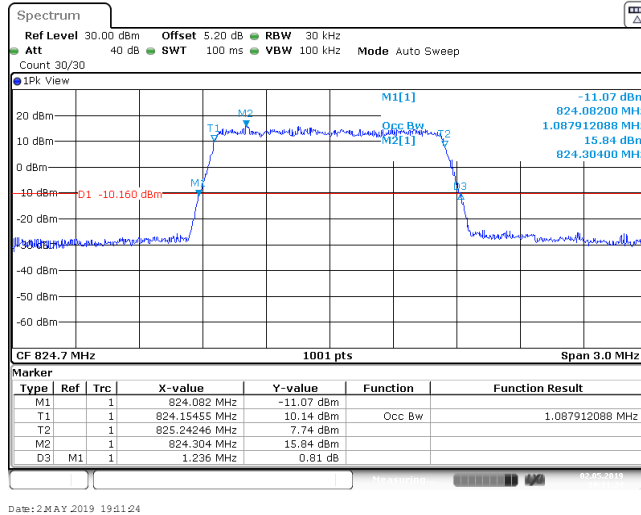


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Date: 2 MAY 2019 17:35:08

Band5_1.4MHz_16QAM_20407_6RB#0

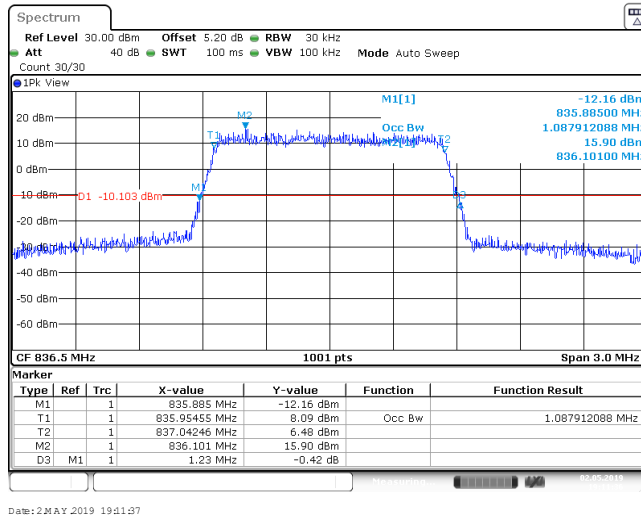


Date: 2 MAY 2019 19:11:24

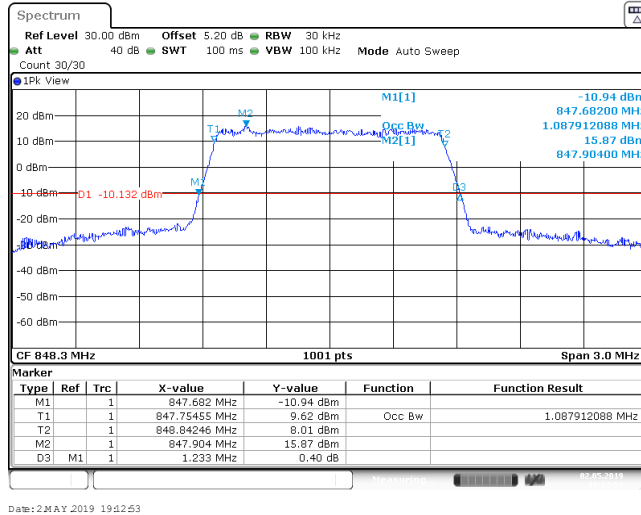
Band5_1.4MHz_16QAM_20525_6RB#0



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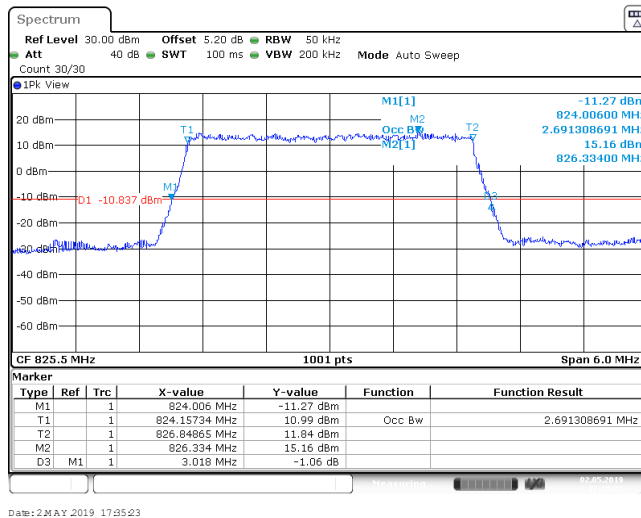
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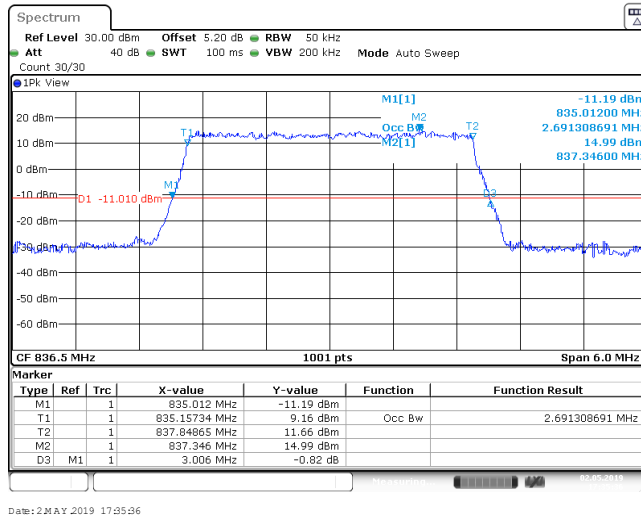
Band5_3MHz_QPSK_20415_15RB#0



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Band5_3MHz_QPSK_20525_15RB#0

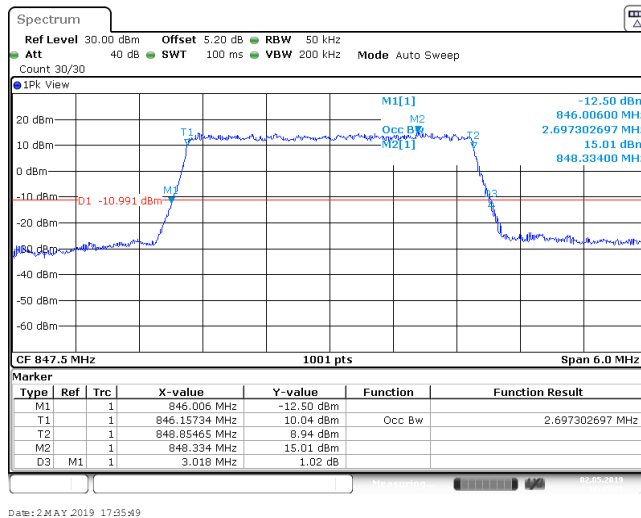


Band5_3MHz_QPSK_20635_15RB#0



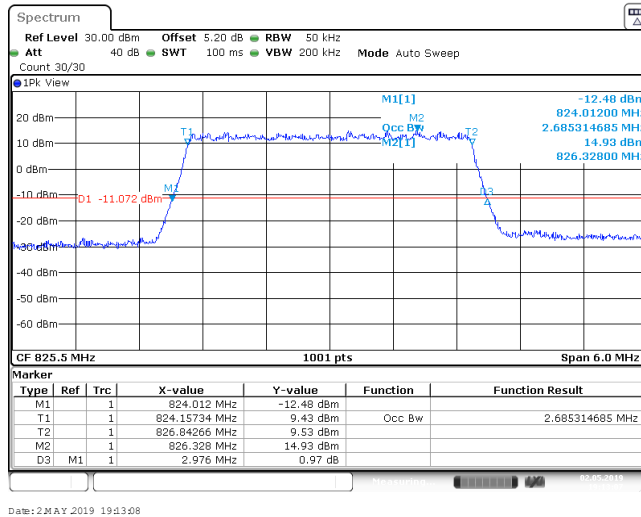
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Date: 2 MAY 2019 17:35:49

Band5_3MHz_16QAM_20415_15RB#0

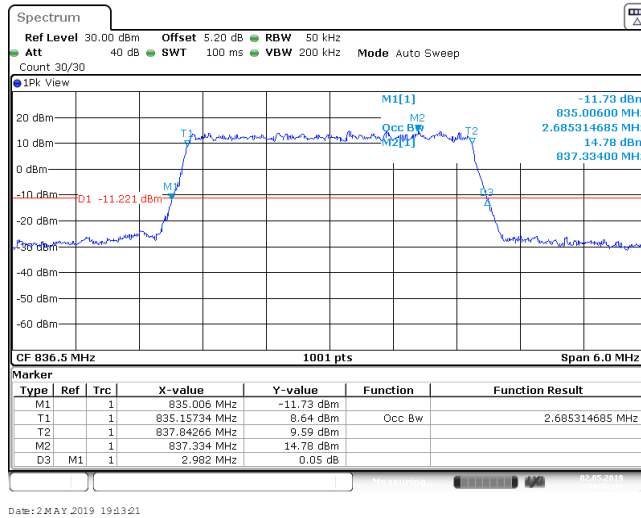


Date: 2 MAY 2019 19:13:08

Band5_3MHz_16QAM_20525_15RB#0

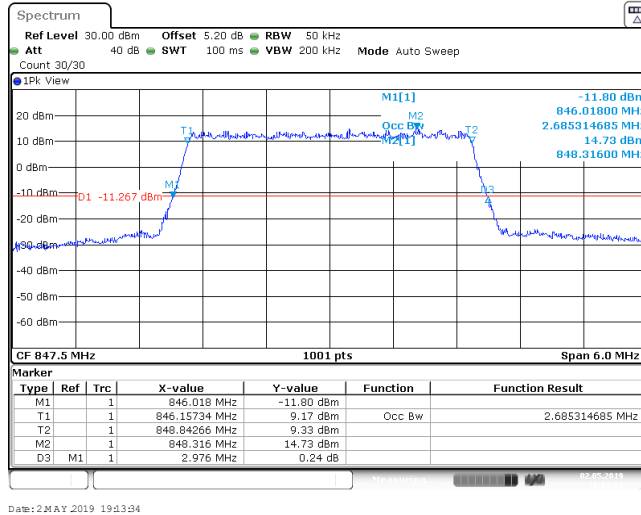


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Band5_3MHz_16QAM_20635_15RB#0

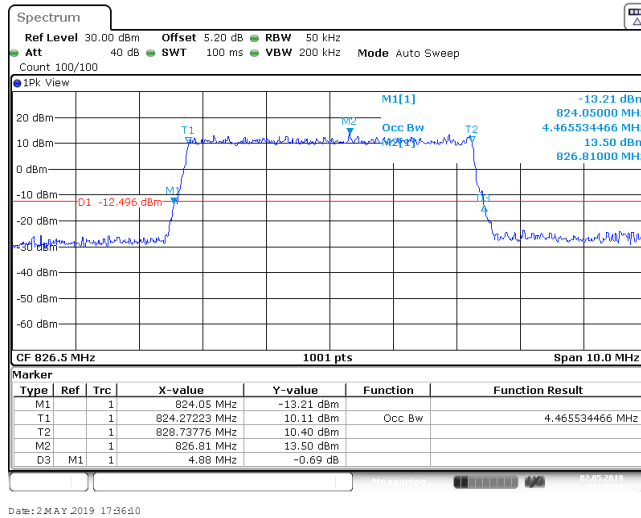


Date: 2 MAY 2019 19:33:4

Band5_5MHz_QPSK_20425_25RB#0

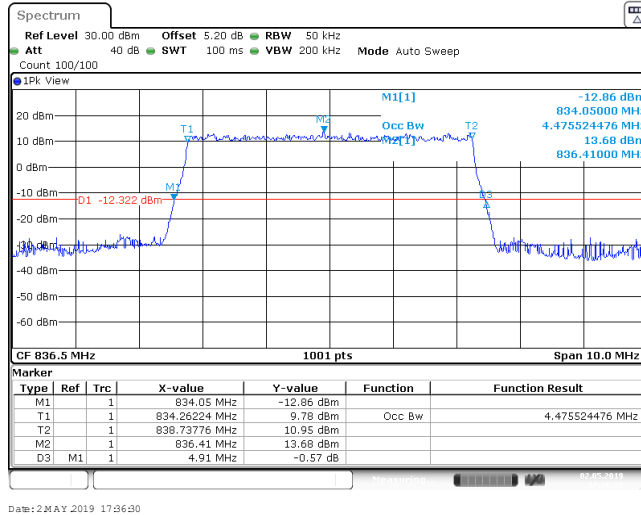


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Date: 2 MAY 2019 17:36:30

Band5_5MHz_QPSK_20525_25RB#0

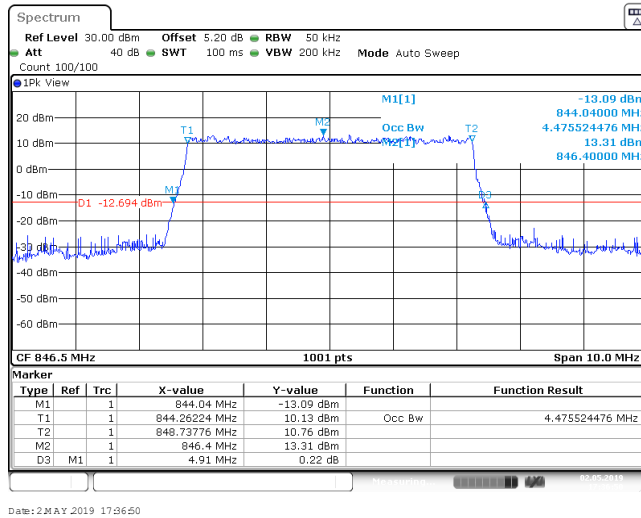


Date: 2 MAY 2019 17:36:30

Band5_5MHz_QPSK_20625_25RB#0

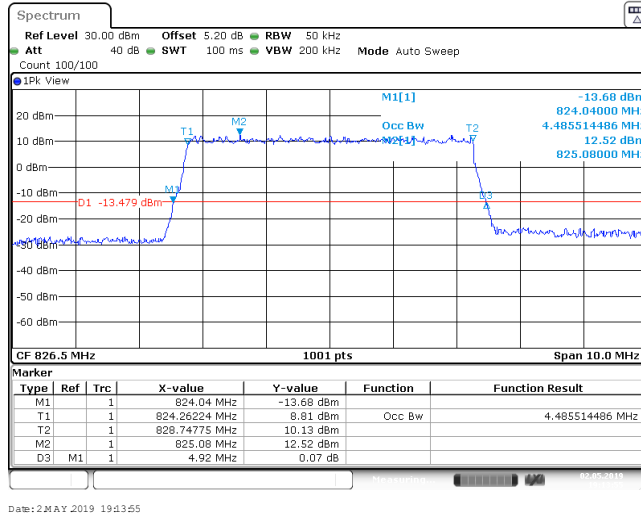


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Date: 2 MAY 2019 17:36:50

Band5_5MHz_16QAM_20425_25RB#0

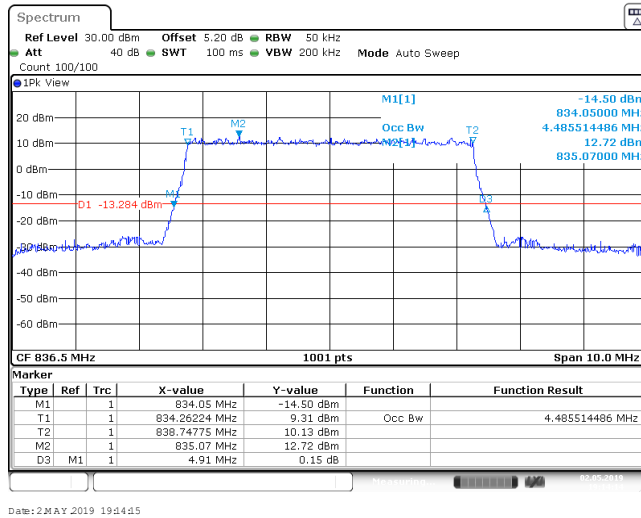


Date: 2 MAY 2019 19:13:55

Band5_5MHz_16QAM_20525_25RB#0

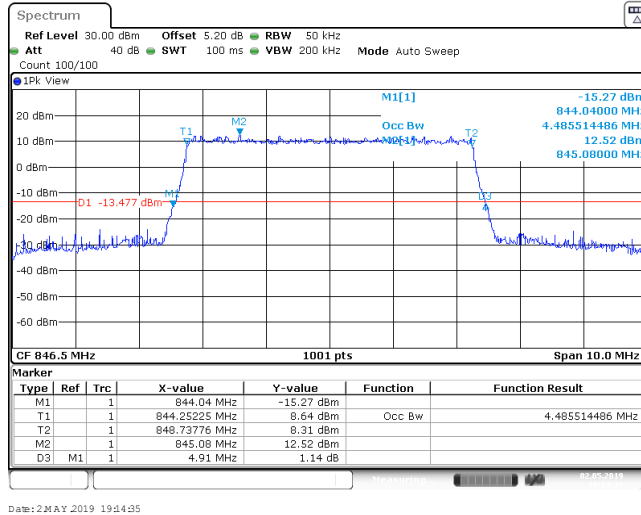


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Date: 2 MAY 2019 19:44:25

Band5_5MHz_16QAM_20625_25RB#0

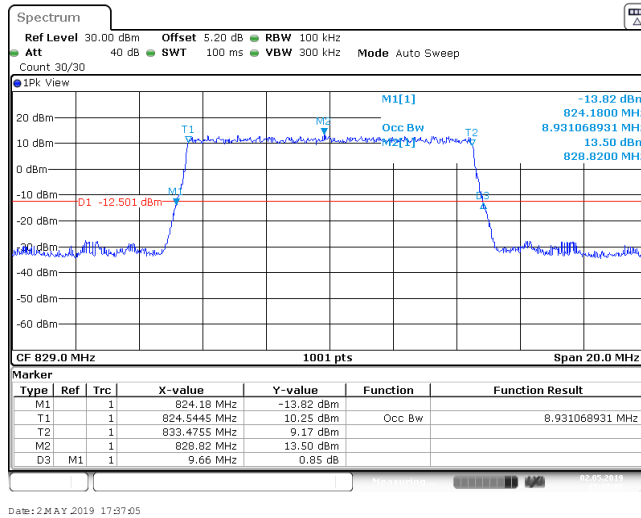


Date: 2 MAY 2019 19:44:25

Band5_10MHz_QPSK_20450_50RB#0

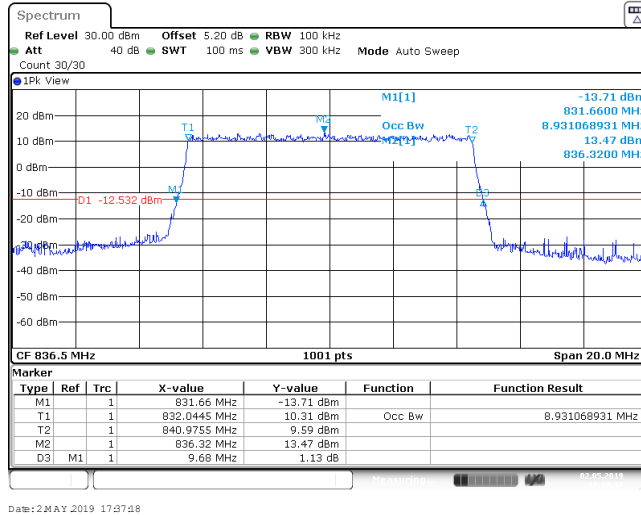


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Date: 2 MAY 2019 17:37:05

Band5_10MHz_QPSK_20525_50RB#0

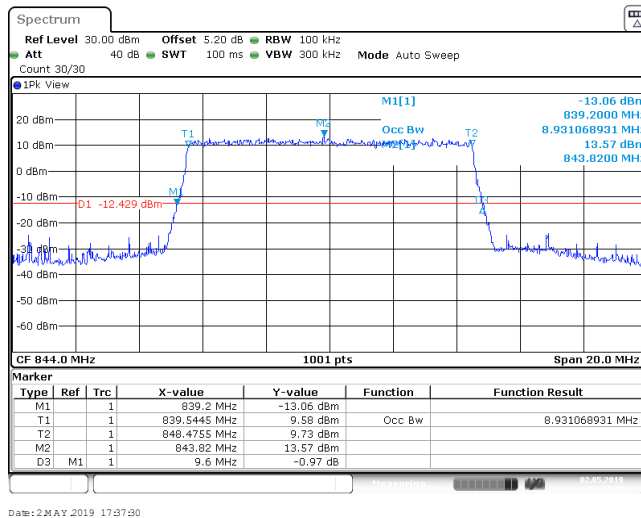


Date: 2 MAY 2019 17:37:08

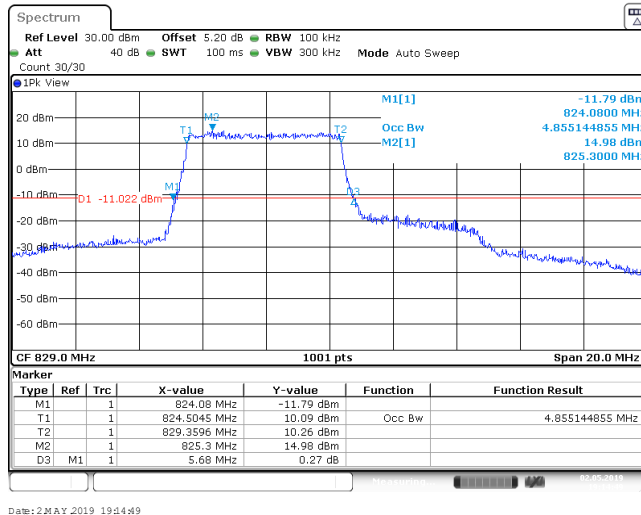
Band5_10MHz_QPSK_20600_50RB#0



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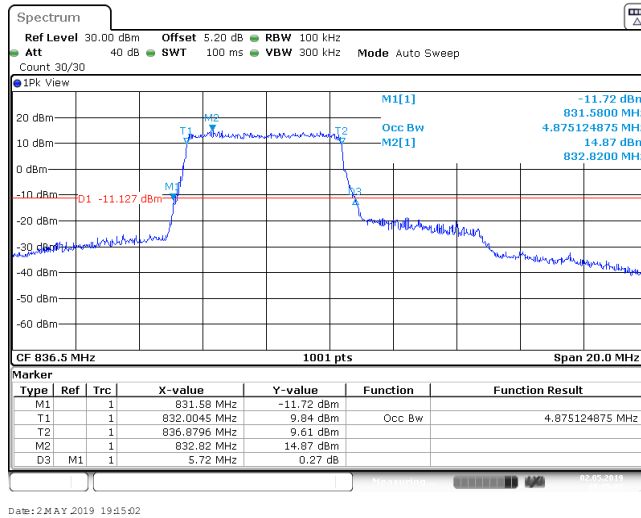
Band5_10MHz_16QAM_20450_27RB#



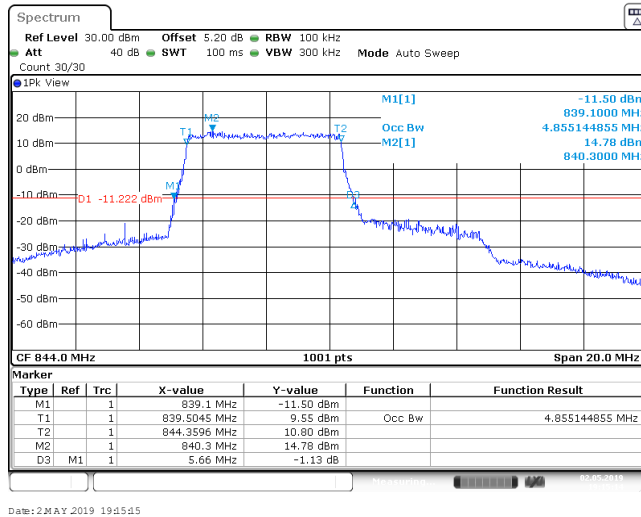
Band5_10MHz_16QAM_20525_27RB#



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Band5_10MHz_16QAM_20600_27RB#0

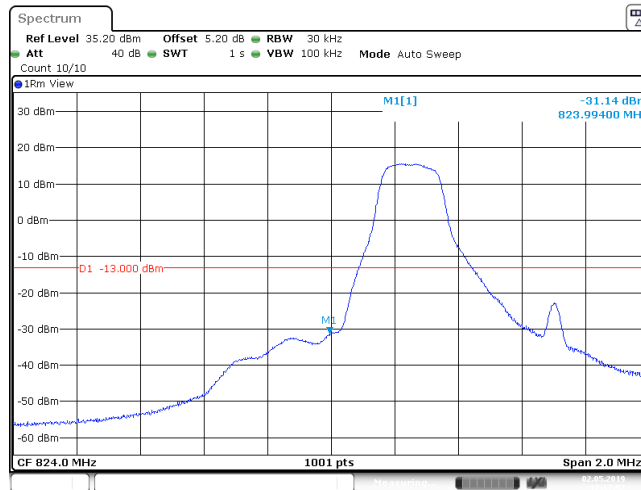


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5. Band Edge Compliance

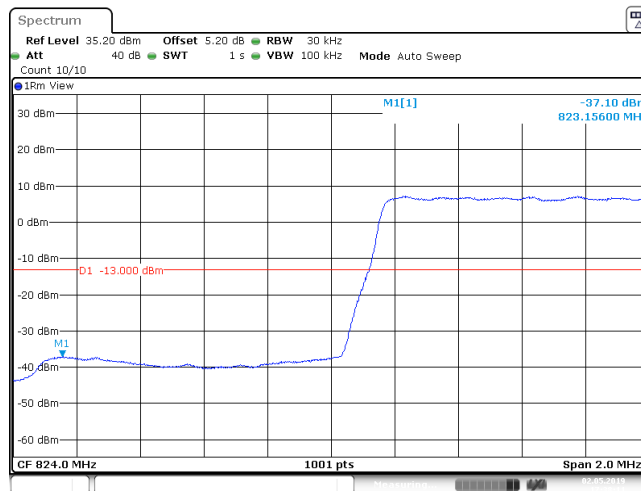
5.1. Test Plots

Band5_1.4MHz_QPSK_20407_1RB#0



Date: 2 MAY 2019 17:37:52

Band5_1.4MHz_QPSK_20407_6RB#0

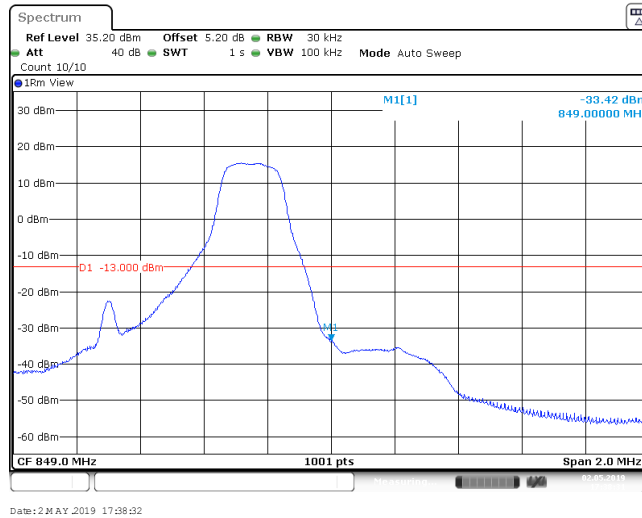


Date: 2 MAY 2019 17:38:11

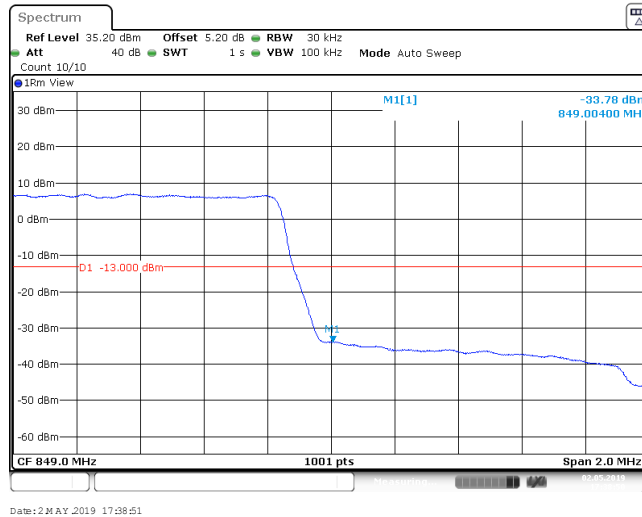
Band5_1.4MHz_QPSK_20643_1RB#5



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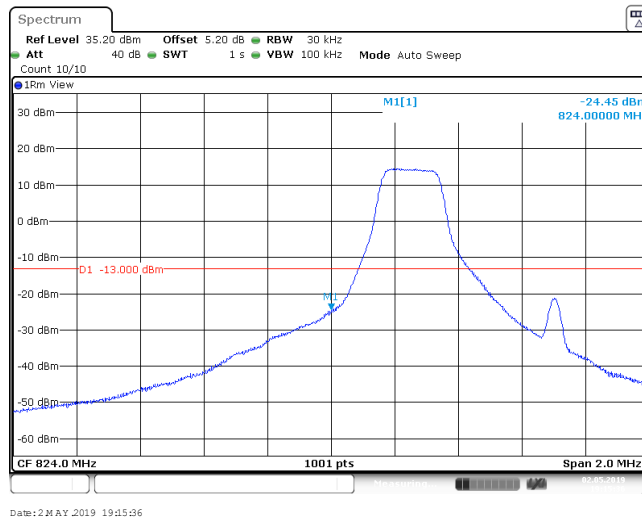
Band5_1.4MHz_QPSK_20643_6RB#0



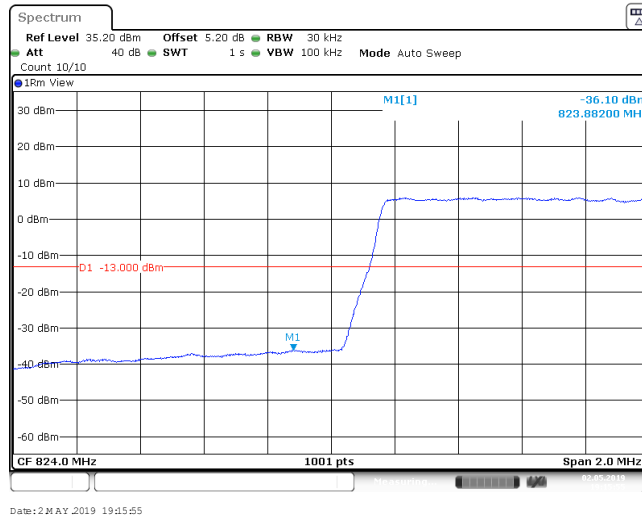
Band5_1.4MHz_16QAM_20407_1RB#0



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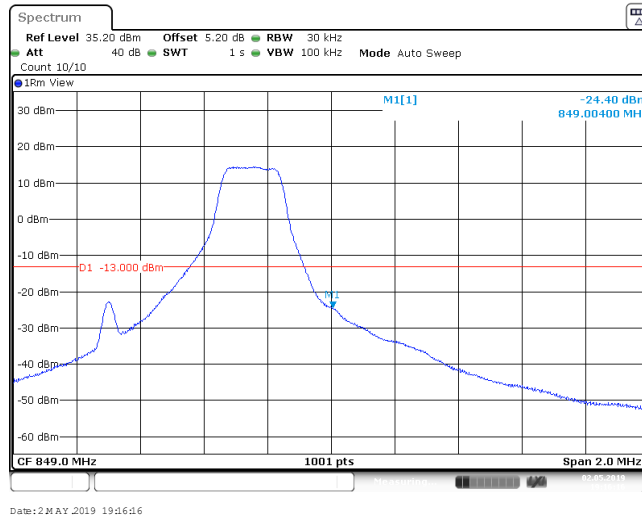
Band5_1.4MHz_16QAM_20407_6RB#0



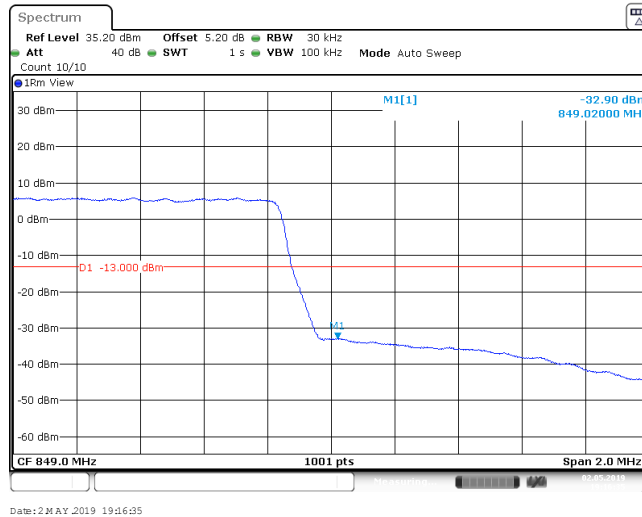
Band5_1.4MHz_16QAM_20643_1RB#5



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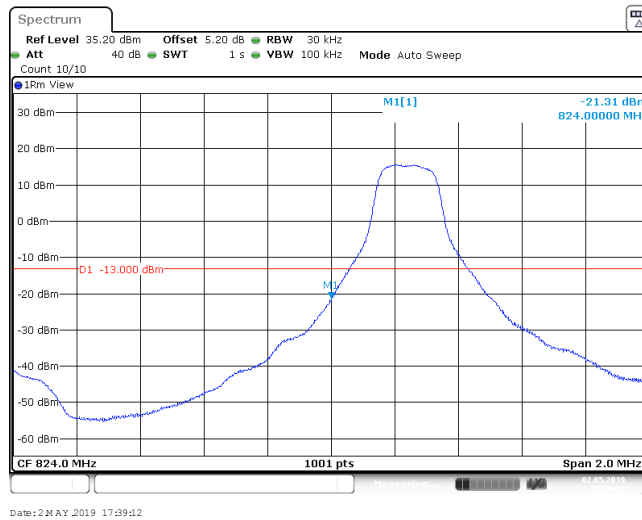
Band5_1.4MHz_16QAM_20643_6RB#0



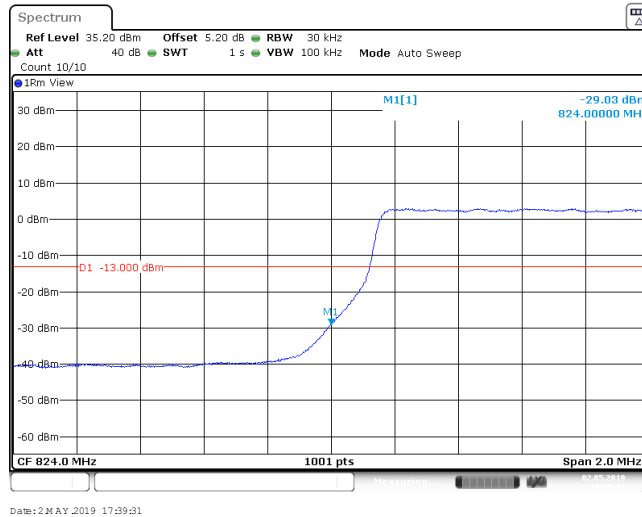
Band5_3MHz_QPSK_20415_1RB#0



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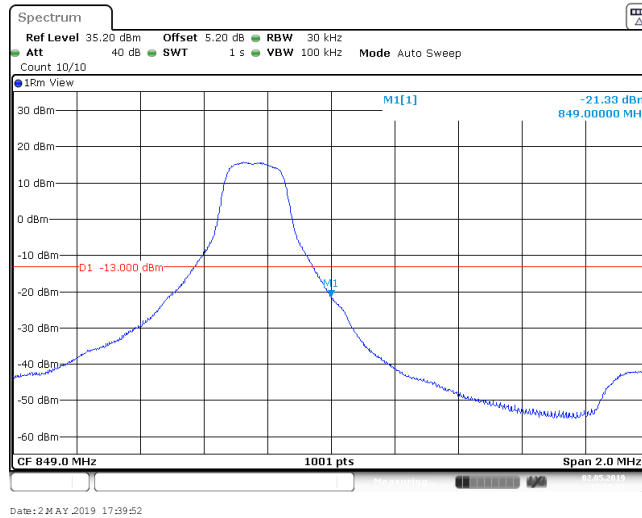
Band5_3MHz_QPSK_20415_15RB#0



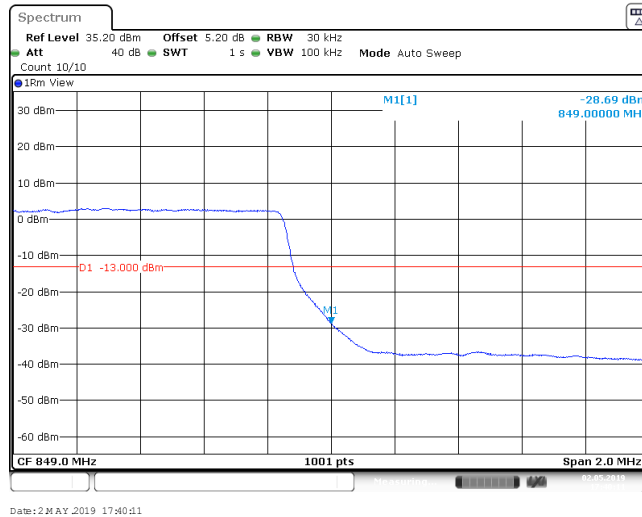
Band5_3MHz_QPSK_20635_1RB#14



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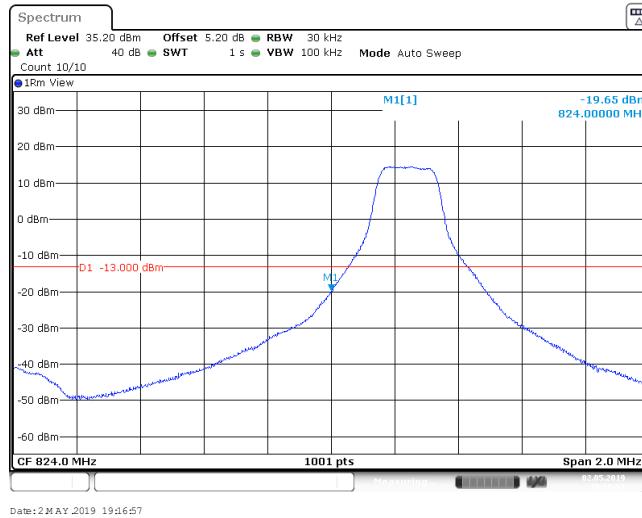
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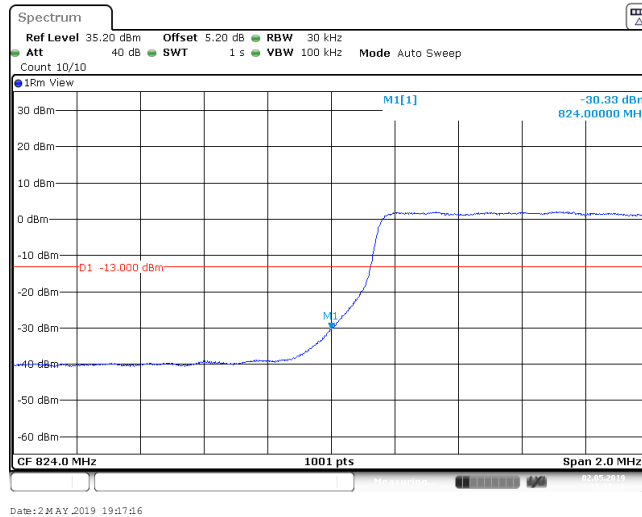
Band5_3MHz_16QAM_20415_1RB#0



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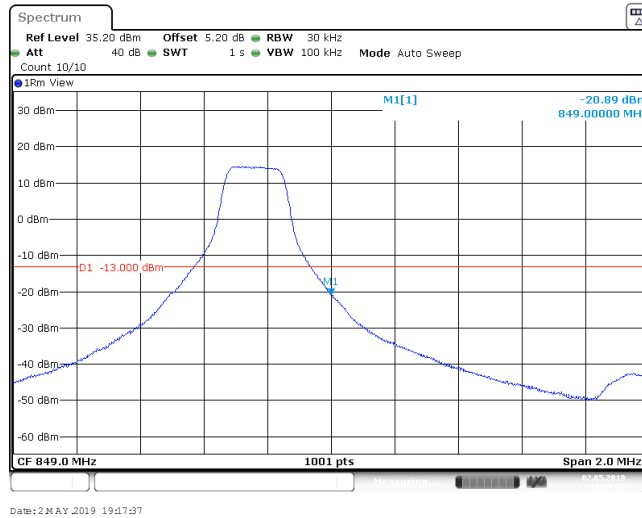
Band5_3MHz_16QAM_20415_15RB#0



Band5_3MHz_16QAM_20635_1RB#14

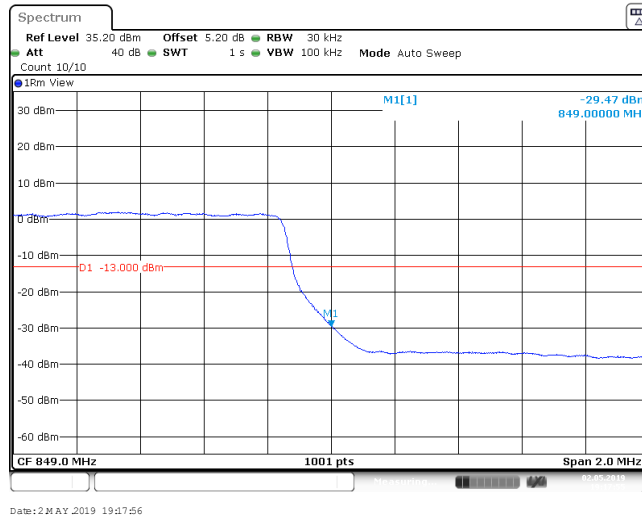


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Date: 2 MAY 2019 19:17:37

Band5_3MHz_16QAM_20635_15RB#0

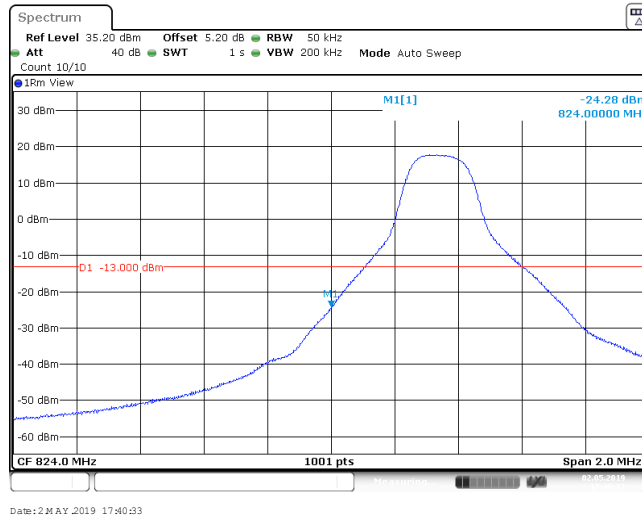


Date: 2 MAY 2019 19:17:56

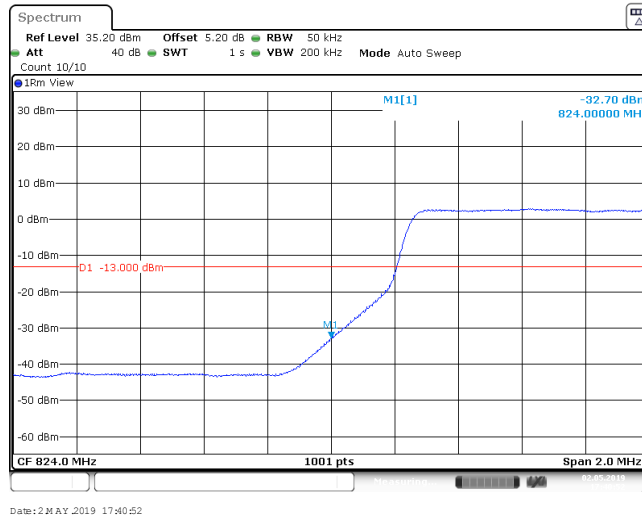
Band5_5MHz_QPSK_20425_1RB#0



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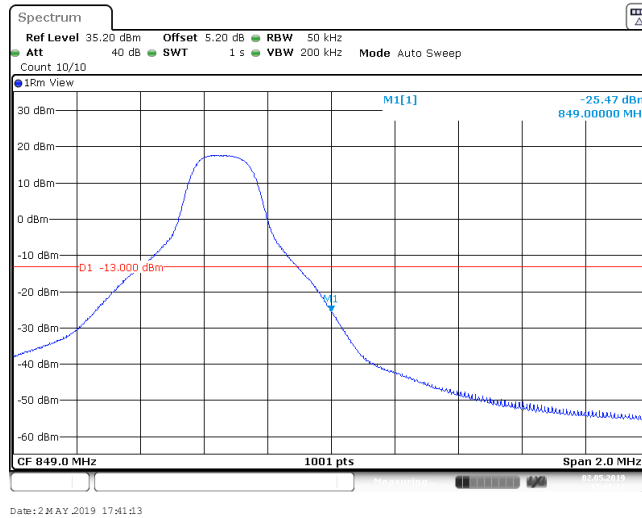
Band5_5MHz_QPSK_20425_25RB#0



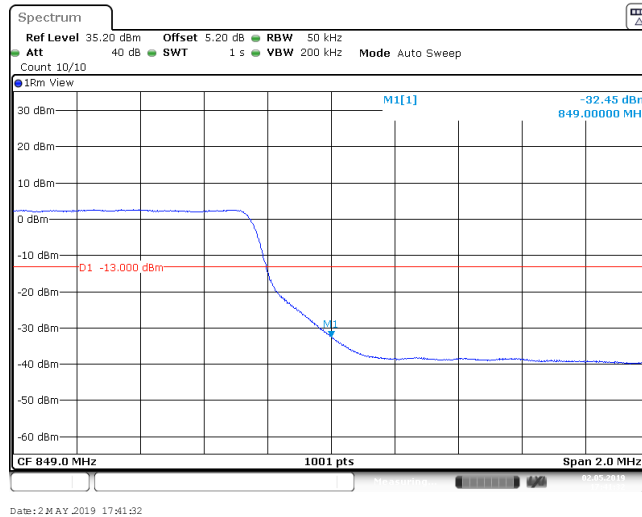
Band5_5MHz_QPSK_20625_1RB#24



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Band5_5MHz_QPSK_20625_25RB#0

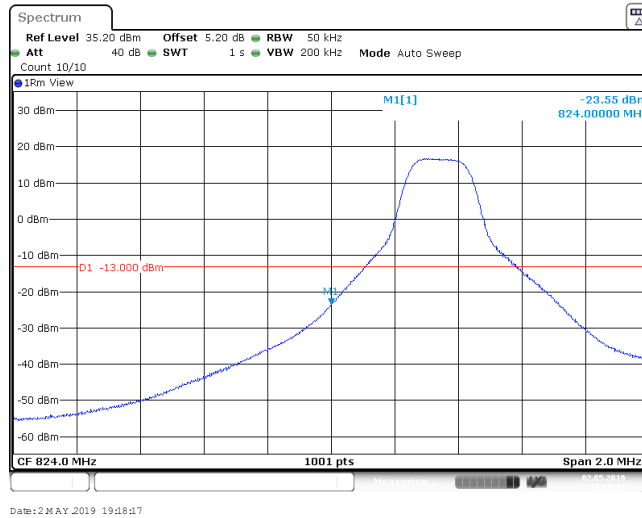


Band5_5MHz_16QAM_20425_1RB#0

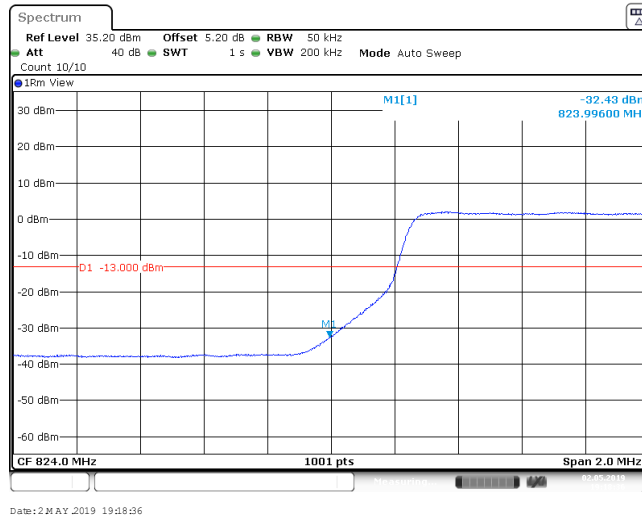


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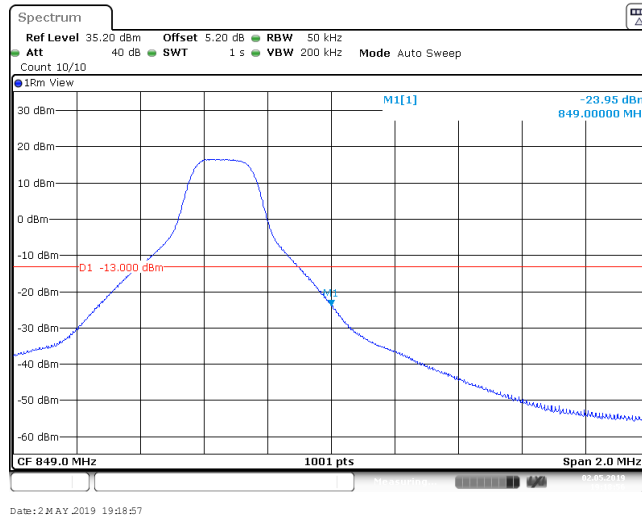
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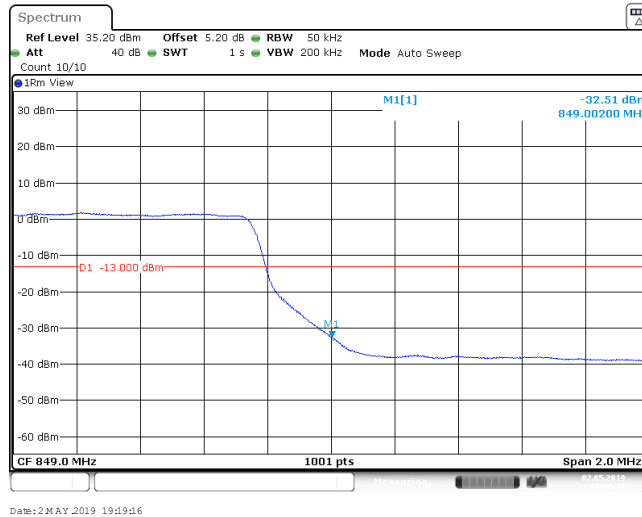
Band5_5MHz_16QAM_20625_1RB#24



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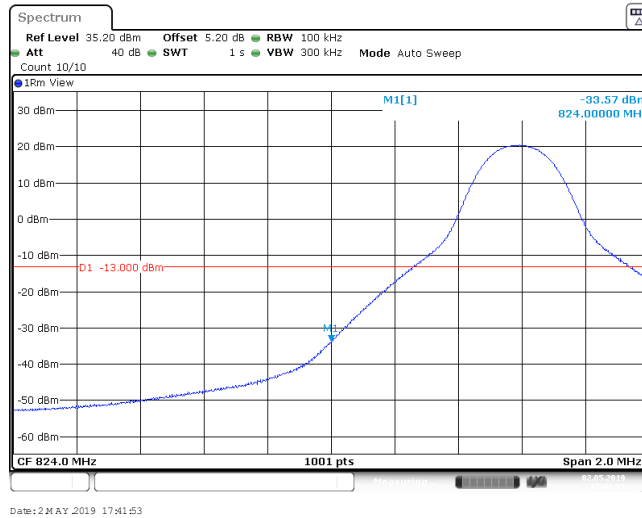
Band5_5MHz_16QAM_20625_25RB#0



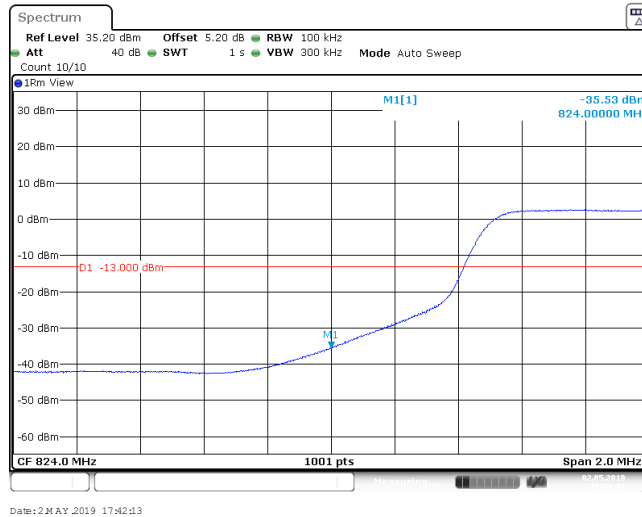
Band5_10MHz_QPSK_20450_1RB#0



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Band5_10MHz_QPSK_20450_50RB#0

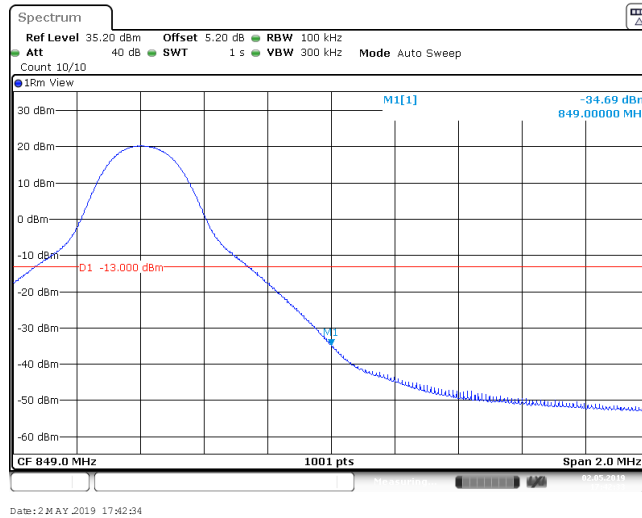


Band5_10MHz_QPSK_20600_1RB#49



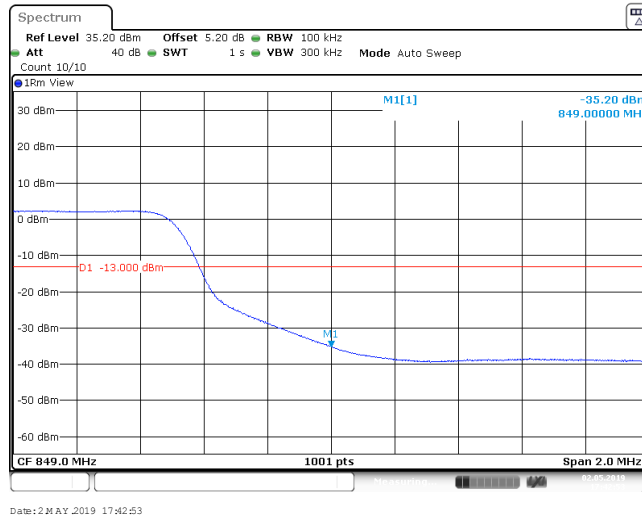
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Date: 2 MAY 2019 17:42:34

Band5_10MHz_QPSK_20600_50RB#0

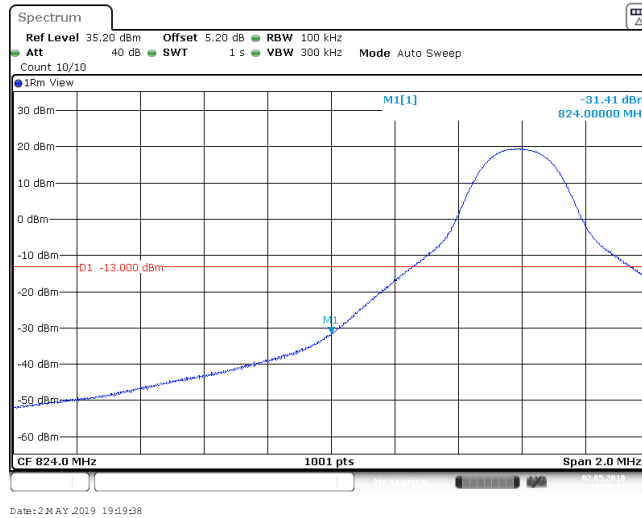


Date: 2 MAY 2019 17:42:53

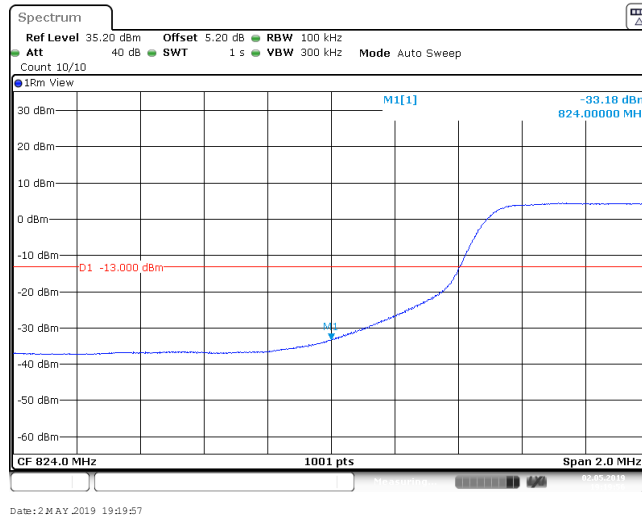
Band5_10MHz_16QAM_20450_1RB#0



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Band5_10MHz_16QAM_20450_27RB#0

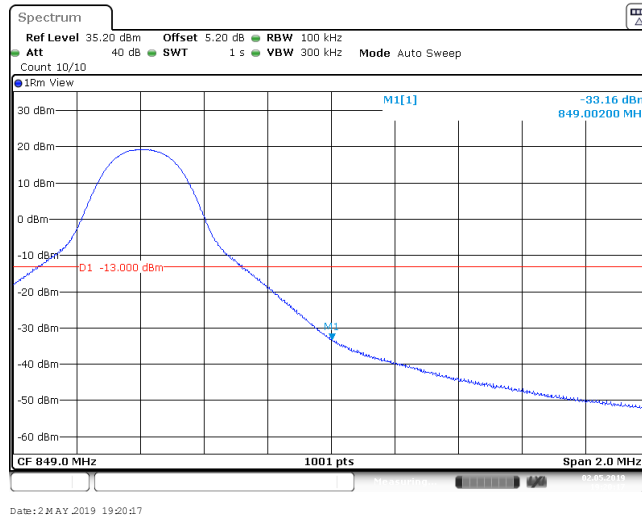


Band5_10MHz_16QAM_20600_1RB#49

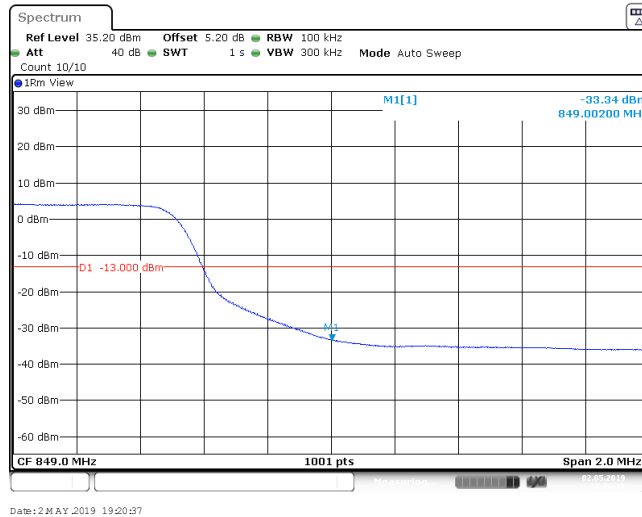


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Band5_10MHz_16QAM_20600_27RB#23



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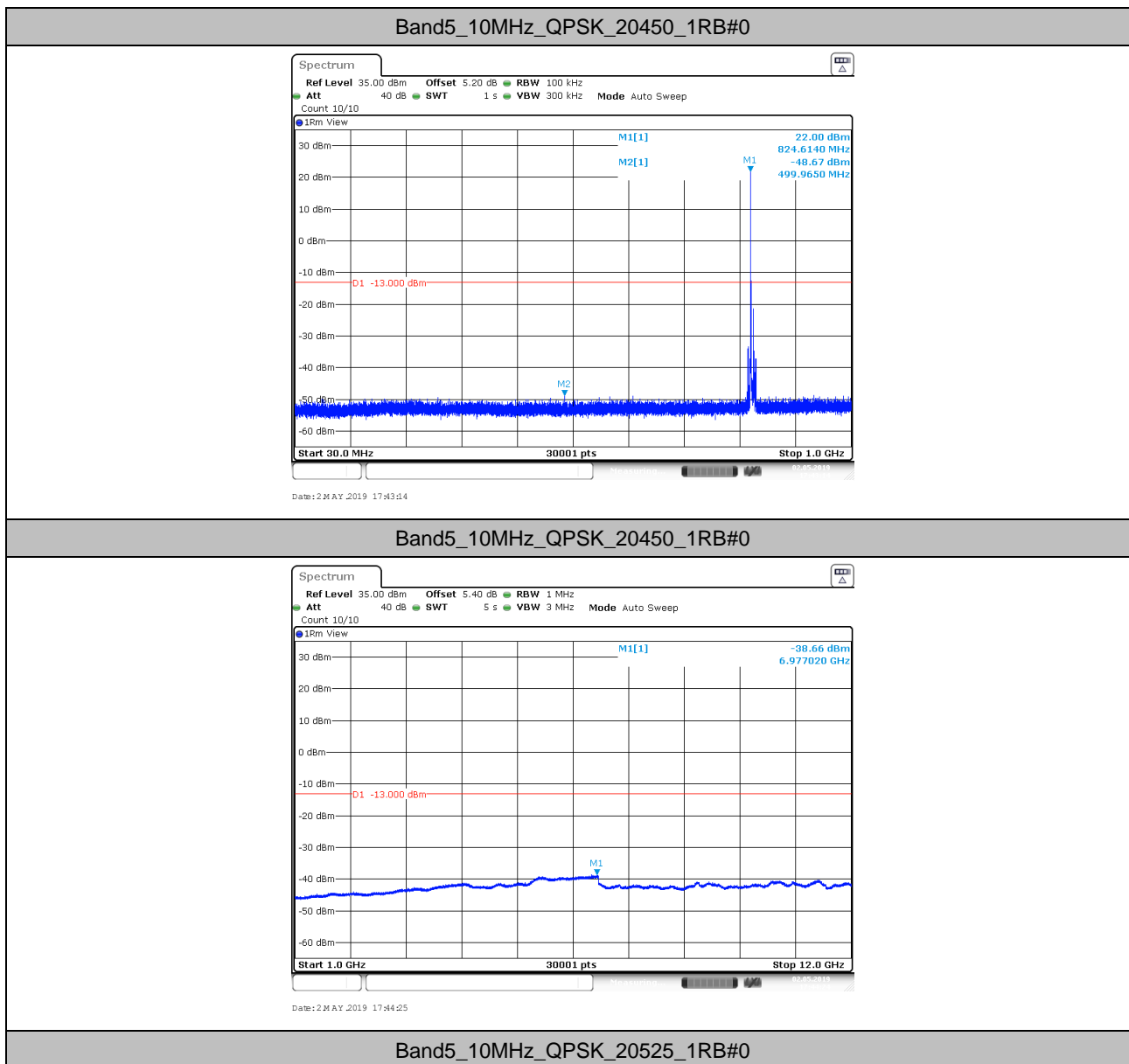
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6. Spurious Emission at Antenna Terminal

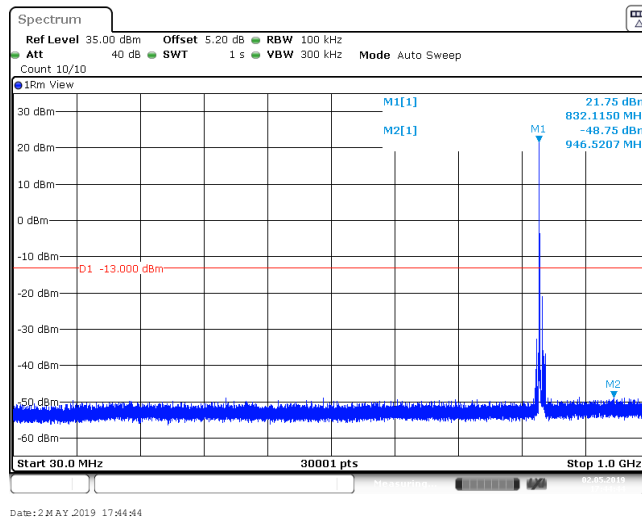
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

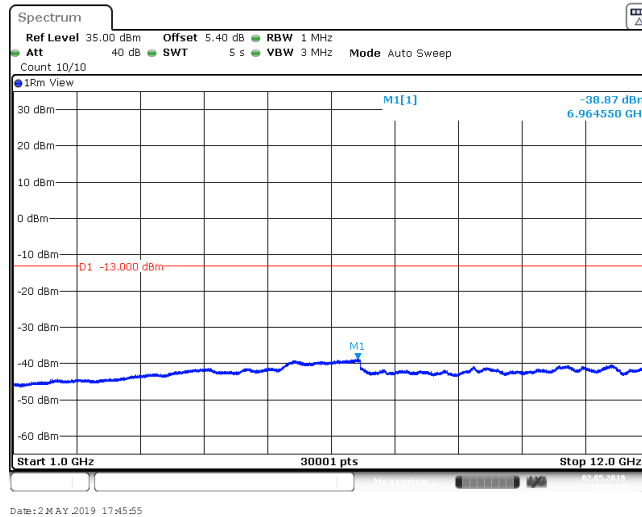
6.1. Test Plots



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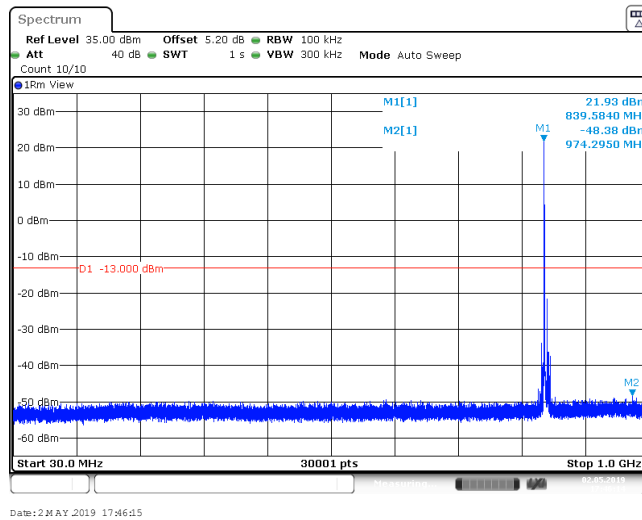
Band5_10MHz_QPSK_20525_1RB#0



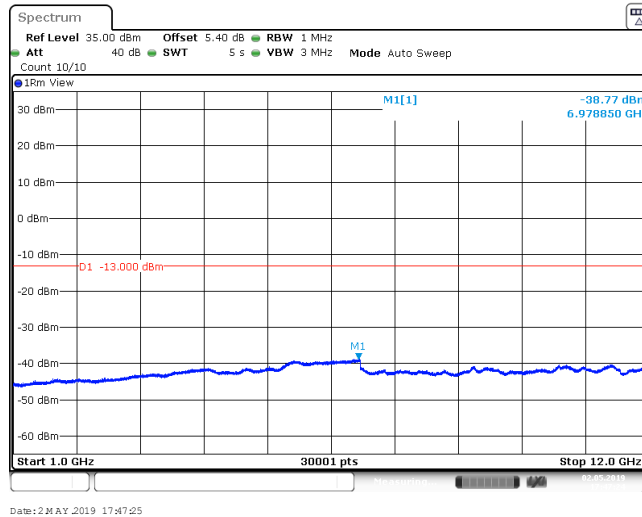
Band5_10MHz_QPSK_20600_1RB#0



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Band5_10MHz_QPSK_20600_1RB#0

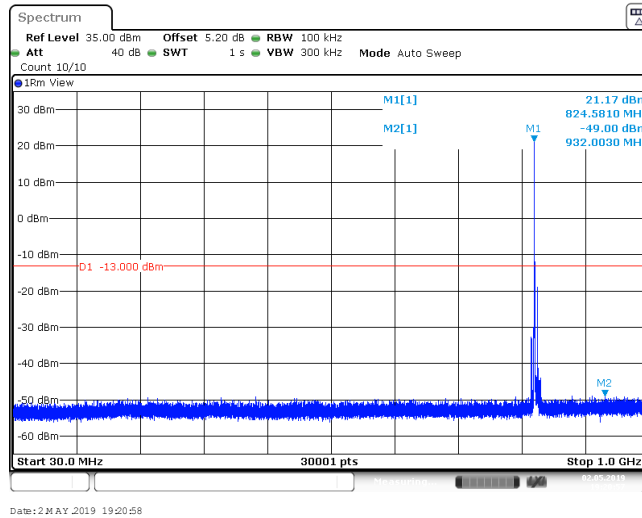


Band5_10MHz_16QAM_20450_1RB#0

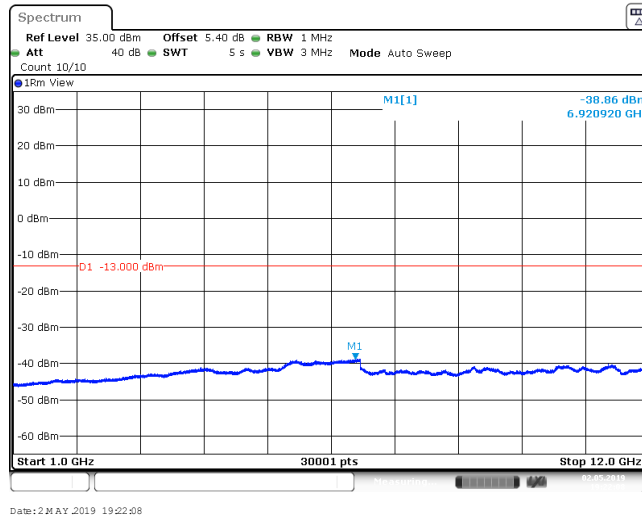


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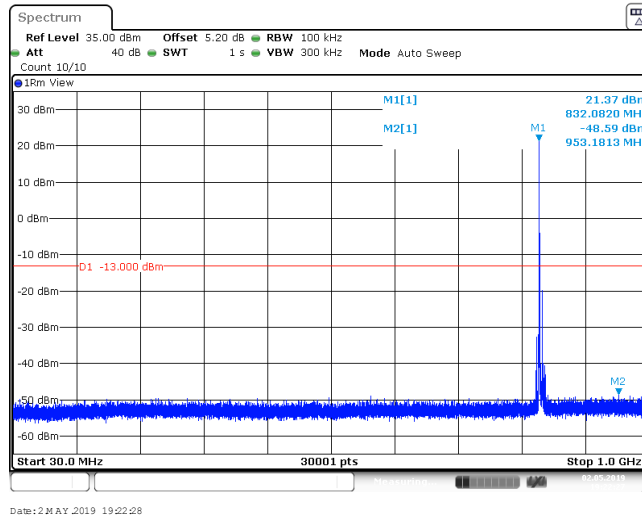
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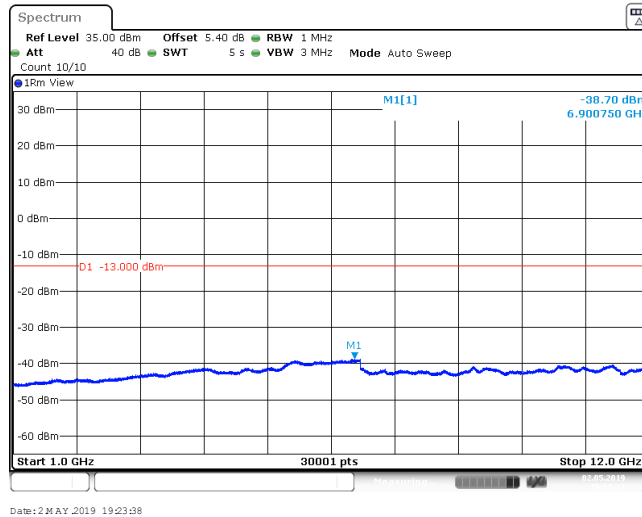
Band5_10MHz_16QAM_20525_1RB#0



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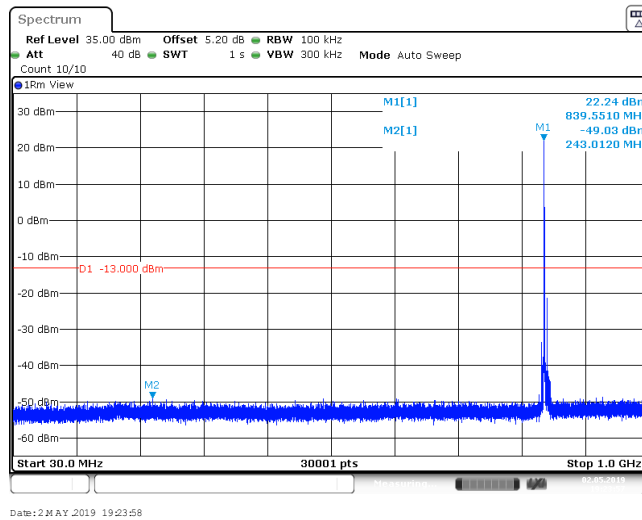


Band5_10MHz_16QAM_20600_1RB#0

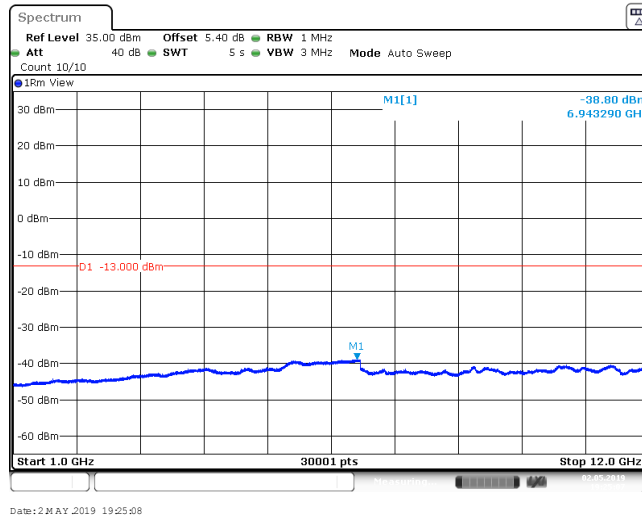


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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE Band 5

7.1.1. Test Mode = LTE/TM1 10MHz

7.1.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 51.5404 | -66.47 | -13 | 53.47 | Vertical |
| 127.9305 | -64.64 | -13 | 51.64 | Vertical |
| 718.1449 | -61.39 | -13 | 48.39 | Vertical |
| 1610.3967 | -48.32 | -13 | 35.32 | Vertical |
| 3241.4304 | -44.43 | -13 | 31.43 | Vertical |
| 4916.5204 | -30.48 | -13 | 17.48 | Vertical |
| 43.5379 | -64.97 | -13 | 51.97 | Horizontal |
| 165.3158 | -62.54 | -13 | 49.54 | Horizontal |
| 507.3180 | -66.74 | -13 | 53.74 | Horizontal |
| 1628.1008 | -36.80 | -13 | 23.80 | Horizontal |
| 2426.6548 | -47.85 | -13 | 34.85 | Horizontal |
| 4995.2248 | -36.01 | -13 | 23.01 | Horizontal |

7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 79.0445 | -65.19 | -13 | 52.19 | Vertical |
| 119.9805 | -64.94 | -13 | 51.94 | Vertical |
| 355.9765 | -62.32 | -13 | 49.32 | Vertical |
| 1658.1328 | -49.09 | -13 | 36.09 | Vertical |
| 3228.2109 | -43.72 | -13 | 30.72 | Vertical |
| 4982.6634 | -29.54 | -13 | 16.54 | Vertical |
| 44.5992 | -65.24 | -13 | 52.24 | Horizontal |
| 164.8852 | -63.28 | -13 | 50.28 | Horizontal |
| 578.9504 | -67.11 | -13 | 54.11 | Horizontal |
| 1664.1438 | -36.70 | -13 | 23.70 | Horizontal |
| 2496.2943 | -47.02 | -13 | 34.02 | Horizontal |
| 7799.5323 | -36.41 | -13 | 23.41 | Horizontal |



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7.1.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 51.002 | -65.03 | -13 | 52.03 | Vertical |
| 111.9695 | -65.59 | -13 | 52.59 | Vertical |
| 405.0212 | -61.88 | -13 | 48.88 | Vertical |
| 1680.1488 | -48.95 | -13 | 35.95 | Vertical |
| 3359.4249 | -43.55 | -13 | 30.55 | Vertical |
| 5038.6809 | -45.02 | -13 | 32.02 | Vertical |
| 44.0176 | -63.38 | -13 | 50.38 | Horizontal |
| 166.0982 | -62.58 | -13 | 49.58 | Horizontal |
| 626.0952 | -67.04 | -13 | 54.04 | Horizontal |
| 1680.1488 | -35.67 | -13 | 22.67 | Horizontal |
| 3359.4249 | -47.14 | -13 | 34.14 | Horizontal |
| 7401.3597 | -46.72 | -13 | 33.72 | Horizontal |

Remark:

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.

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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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 |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | VL | NT | -2.48 | -0.002988 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | VN | NT | 10.99 | 0.013256 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | VH | NT | -0.18 | -0.000220 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | VL | NT | -14.69 | -0.017562 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | VN | NT | 1.55 | 0.001854 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | VH | NT | -8.10 | -0.009677 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | VL | NT | -3.38 | -0.004008 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | VN | NT | 7.60 | 0.009008 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | VH | NT | -13.41 | -0.015884 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 27RB#0 | VL | NT | -0.66 | -0.000796 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 27RB#0 | VN | NT | 3.04 | 0.003666 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 27RB#0 | VH | NT | 10.10 | 0.012187 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 27RB#0 | VL | NT | -9.50 | -0.011360 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 27RB#0 | VN | NT | 9.25 | 0.011064 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 27RB#0 | VH | NT | -0.82 | -0.000985 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 27RB#0 | VL | NT | 14.03 | 0.016629 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 27RB#0 | VN | NT | -5.71 | -0.006765 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 27RB#0 | VH | NT | -0.58 | -0.000691 | ±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 |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | -30 | -1.27 | -0.001530 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | -20 | 4.88 | 0.005886 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 0 | -6.37 | -0.007683 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 10 | -11.26 | -0.013579 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 20 | -0.50 | -0.000609 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 30 | -7.99 | -0.009638 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 40 | -6.27 | -0.007566 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 50 | -7.98 | -0.009626 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | -30 | -9.69 | -0.011583 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | -20 | 11.38 | 0.013600 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 0 | 11.77 | 0.014070 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 10 | 4.53 | 0.005414 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 20 | -13.23 | -0.015817 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 30 | -13.28 | -0.015876 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 40 | 9.76 | 0.011671 | ±2.5 | PASS |



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| | | | | | | | | | | |
|-------|-------|-------|-------|--------|----|-----|--------|-----------|------|------|
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 50 | -10.68 | -0.012764 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | -30 | 1.54 | 0.001819 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | -20 | 5.19 | 0.006153 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 0 | -14.85 | -0.017590 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 10 | 11.00 | 0.013028 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 20 | -11.58 | -0.013718 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 30 | 6.95 | 0.008236 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 40 | -0.29 | -0.000338 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 50 | 13.25 | 0.015704 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 27RB#0 | NV | -30 | -12.59 | -0.015184 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 27RB#0 | NV | -20 | -2.96 | -0.003574 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 27RB#0 | NV | 0 | -0.45 | -0.000542 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 27RB#0 | NV | 10 | -5.41 | -0.006529 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 27RB#0 | NV | 20 | -1.16 | -0.001398 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 27RB#0 | NV | 30 | 8.95 | 0.010795 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 27RB#0 | NV | 40 | -14.31 | -0.017267 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 27RB#0 | NV | 50 | 6.95 | 0.008388 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 27RB#0 | NV | -30 | -11.76 | -0.014058 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 27RB#0 | NV | -20 | -9.61 | -0.011491 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 27RB#0 | NV | 0 | 4.97 | 0.005940 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 27RB#0 | NV | 10 | 1.03 | 0.001236 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 27RB#0 | NV | 20 | -1.14 | -0.001364 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 27RB#0 | NV | 30 | -9.55 | -0.011414 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 27RB#0 | NV | 40 | 14.33 | 0.017133 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 27RB#0 | NV | 50 | 0.75 | 0.000898 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 27RB#0 | NV | -30 | -5.41 | -0.006408 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 27RB#0 | NV | -20 | -3.66 | -0.004340 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 27RB#0 | NV | 0 | 0.63 | 0.000746 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 27RB#0 | NV | 10 | -5.82 | -0.006892 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 27RB#0 | NV | 20 | 13.71 | 0.016241 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 27RB#0 | NV | 30 | -8.48 | -0.010052 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 27RB#0 | NV | 40 | 11.18 | 0.013245 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 27RB#0 | NV | 50 | 8.19 | 0.009708 | ±2.5 | PASS |

The End



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