



Appendix B

E-UTRA Band 4



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Conducted Power(dBm) | EIRP (dBm) | limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|----------------------|------------|-------------|---------|
| Band4 | 1.4MHz | QPSK | 19957 | 1RB#0 | 22.82 | 24.22 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 1RB#2 | 23.05 | 24.45 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 1RB#5 | 22.86 | 24.26 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 3RB#0 | 23.03 | 24.43 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 3RB#1 | 23.18 | 24.58 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 3RB#3 | 23.04 | 24.44 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | 21.93 | 23.33 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1RB#0 | 22.91 | 24.31 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1RB#2 | 23.06 | 24.46 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1RB#5 | 23.11 | 24.51 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 3RB#0 | 23.01 | 24.41 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 3RB#1 | 23.06 | 24.46 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 3RB#3 | 23.22 | 24.62 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | 22.07 | 23.47 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1RB#0 | 22.67 | 24.07 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1RB#2 | 22.84 | 24.24 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1RB#5 | 22.67 | 24.07 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 3RB#0 | 23.03 | 24.43 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 3RB#1 | 22.93 | 24.33 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 3RB#3 | 23.07 | 24.47 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | 21.71 | 23.11 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1RB#0 | 21.88 | 23.28 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1RB#2 | 21.86 | 23.26 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1RB#5 | 21.58 | 22.98 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 3RB#0 | 22.21 | 23.61 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 3RB#1 | 22.12 | 23.52 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 3RB#3 | 22.19 | 23.59 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | 20.99 | 22.39 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#0 | 21.74 | 23.14 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#2 | 21.79 | 23.19 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#5 | 21.83 | 23.23 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 3RB#0 | 22.17 | 23.57 | 30.00 | PASS |



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| | | | | | | | | |
|-------|--------|-------|-------|--------|-------|-------|-------|------|
| Band4 | 1.4MHz | 16QAM | 20175 | 3RB#1 | 22.11 | 23.51 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 3RB#3 | 22.27 | 23.67 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | 21.30 | 22.70 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#0 | 21.53 | 22.93 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#2 | 21.72 | 23.12 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#5 | 21.63 | 23.03 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#0 | 21.95 | 23.35 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#1 | 21.89 | 23.29 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#3 | 22.15 | 23.55 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | 20.93 | 22.33 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1RB#0 | 23.32 | 24.72 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1RB#8 | 22.93 | 24.33 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1RB#14 | 23.08 | 24.48 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 8RB#0 | 21.91 | 23.31 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 8RB#4 | 21.97 | 23.37 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 8RB#7 | 21.91 | 23.31 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 15RB#0 | 21.96 | 23.36 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1RB#0 | 23.14 | 24.54 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1RB#8 | 23.17 | 24.57 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1RB#14 | 23.17 | 24.57 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 8RB#0 | 21.98 | 23.38 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 8RB#4 | 22.08 | 23.48 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 8RB#7 | 22.13 | 23.53 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 15RB#0 | 22.03 | 23.43 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1RB#0 | 22.86 | 24.26 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1RB#8 | 22.63 | 24.03 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1RB#14 | 22.85 | 24.25 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 8RB#0 | 21.67 | 23.07 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 8RB#4 | 21.81 | 23.21 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 8RB#7 | 21.86 | 23.26 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 15RB#0 | 21.79 | 23.19 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#0 | 21.77 | 23.17 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#8 | 21.78 | 23.18 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#14 | 21.78 | 23.18 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 8RB#0 | 20.93 | 22.33 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 8RB#4 | 20.94 | 22.34 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 8RB#7 | 20.89 | 22.29 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | 21.03 | 22.43 | 30.00 | PASS |



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| | | | | | | | | |
|-------|------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 3MHz | 16QAM | 20175 | 1RB#0 | 21.69 | 23.09 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#8 | 21.76 | 23.16 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#14 | 21.73 | 23.13 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 8RB#0 | 21.20 | 22.60 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 8RB#4 | 21.25 | 22.65 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 8RB#7 | 21.31 | 22.71 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | 20.93 | 22.33 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#0 | 21.30 | 22.70 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#8 | 21.43 | 22.83 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#14 | 21.67 | 23.07 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#0 | 20.60 | 22.00 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#4 | 20.90 | 22.30 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#7 | 20.97 | 22.37 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | 20.81 | 22.21 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 1RB#0 | 23.12 | 24.52 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 1RB#12 | 22.98 | 24.38 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 1RB#24 | 22.99 | 24.39 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 12RB#0 | 21.85 | 23.25 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 12RB#6 | 21.92 | 23.32 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 12RB#13 | 22.00 | 23.40 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 25RB#0 | 21.89 | 23.29 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 1RB#0 | 23.20 | 24.60 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 1RB#12 | 23.05 | 24.45 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 1RB#24 | 23.15 | 24.55 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 12RB#0 | 21.90 | 23.30 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 12RB#6 | 21.95 | 23.35 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 12RB#13 | 22.07 | 23.47 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 25RB#0 | 22.04 | 23.44 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 1RB#0 | 22.97 | 24.37 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 1RB#12 | 22.63 | 24.03 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 1RB#24 | 23.02 | 24.42 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 12RB#0 | 21.72 | 23.12 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 12RB#6 | 21.72 | 23.12 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 12RB#13 | 21.80 | 23.20 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 25RB#0 | 21.84 | 23.24 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#0 | 21.72 | 23.12 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#12 | 21.86 | 23.26 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#24 | 21.62 | 23.02 | 30.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 5MHz | 16QAM | 19975 | 12RB#0 | 20.87 | 22.27 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#6 | 20.94 | 22.34 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#13 | 20.82 | 22.22 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | 21.02 | 22.42 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#0 | 21.71 | 23.11 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#12 | 22.10 | 23.50 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#24 | 21.77 | 23.17 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 12RB#0 | 21.08 | 22.48 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 12RB#6 | 20.91 | 22.31 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 12RB#13 | 21.12 | 22.52 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | 20.97 | 22.37 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#0 | 21.48 | 22.88 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#12 | 21.74 | 23.14 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#24 | 21.79 | 23.19 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 12RB#0 | 20.53 | 21.93 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 12RB#6 | 20.81 | 22.21 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 12RB#13 | 20.98 | 22.38 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 25RB#0 | 20.88 | 22.28 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 1RB#0 | 23.10 | 24.50 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 1RB#24 | 22.98 | 24.38 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 1RB#49 | 23.06 | 24.46 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 25RB#0 | 21.96 | 23.36 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 25RB#12 | 21.89 | 23.29 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 25RB#25 | 21.97 | 23.37 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 50RB#0 | 21.90 | 23.30 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 1RB#0 | 22.86 | 24.26 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 1RB#24 | 23.07 | 24.47 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 1RB#49 | 22.93 | 24.33 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 25RB#0 | 21.90 | 23.30 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 25RB#12 | 21.98 | 23.38 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 25RB#25 | 22.03 | 23.43 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 50RB#0 | 21.95 | 23.35 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 1RB#0 | 23.07 | 24.47 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 1RB#24 | 23.00 | 24.40 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 1RB#49 | 22.88 | 24.28 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 25RB#0 | 21.98 | 23.38 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 25RB#12 | 21.77 | 23.17 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 25RB#25 | 21.63 | 23.03 | 30.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 10MHz | QPSK | 20350 | 50RB#0 | 21.75 | 23.15 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#0 | 21.68 | 23.08 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#24 | 21.59 | 22.99 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#49 | 21.77 | 23.17 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#0 | 21.03 | 22.43 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#12 | 21.03 | 22.43 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#25 | 21.05 | 22.45 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0 | 21.05 | 22.45 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#0 | 21.78 | 23.18 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#24 | 21.84 | 23.24 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#49 | 21.70 | 23.10 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#0 | 21.15 | 22.55 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#12 | 21.01 | 22.41 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#25 | 21.01 | 22.41 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0 | 20.97 | 22.37 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#0 | 21.82 | 23.22 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#24 | 21.64 | 23.04 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#49 | 21.67 | 23.07 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#0 | 20.91 | 22.31 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#12 | 20.92 | 22.32 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#25 | 20.68 | 22.08 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0 | 20.78 | 22.18 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 1RB#0 | 22.98 | 24.38 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 1RB#38 | 22.90 | 24.30 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 1RB#74 | 22.88 | 24.28 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 36RB#0 | 21.95 | 23.35 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 36RB#18 | 21.95 | 23.35 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 36RB#39 | 21.98 | 23.38 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 75RB#0 | 21.89 | 23.29 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 1RB#0 | 22.91 | 24.31 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 1RB#38 | 23.18 | 24.58 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 1RB#74 | 22.81 | 24.21 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 36RB#0 | 21.94 | 23.34 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 36RB#18 | 22.02 | 23.42 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 36RB#39 | 21.95 | 23.35 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 75RB#0 | 21.86 | 23.26 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 1RB#0 | 23.05 | 24.45 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 1RB#38 | 22.68 | 24.08 | 30.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 15MHz | QPSK | 20325 | 1RB#74 | 22.76 | 24.16 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 36RB#0 | 22.04 | 23.44 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 36RB#18 | 21.80 | 23.20 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 36RB#39 | 21.76 | 23.16 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0 | 21.83 | 23.23 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#0 | 21.67 | 23.07 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#38 | 21.80 | 23.20 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#74 | 21.73 | 23.13 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 36RB#0 | 21.01 | 22.41 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 36RB#18 | 20.98 | 22.38 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 36RB#39 | 21.02 | 22.42 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0 | 20.91 | 22.31 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#0 | 21.63 | 23.03 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#38 | 21.74 | 23.14 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#74 | 21.59 | 22.99 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 36RB#0 | 20.98 | 22.38 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 36RB#18 | 20.94 | 22.34 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 36RB#39 | 20.87 | 22.27 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0 | 20.88 | 22.28 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#0 | 21.62 | 23.02 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#38 | 21.46 | 22.86 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#74 | 21.46 | 22.86 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 36RB#0 | 20.82 | 22.22 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 36RB#18 | 20.92 | 22.32 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 36RB#39 | 20.73 | 22.13 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0 | 20.77 | 22.17 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 1RB#0 | 23.14 | 24.54 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 1RB#49 | 22.94 | 24.34 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 1RB#99 | 22.80 | 24.20 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 50RB#0 | 21.84 | 23.24 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 50RB#25 | 21.86 | 23.26 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 50RB#50 | 21.88 | 23.28 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | 21.95 | 23.35 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 1RB#0 | 23.15 | 24.55 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 1RB#49 | 22.96 | 24.36 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 1RB#99 | 22.84 | 24.24 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 50RB#0 | 21.78 | 23.18 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 50RB#25 | 21.85 | 23.25 | 30.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 20MHz | QPSK | 20175 | 50RB#50 | 21.84 | 23.24 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | 21.73 | 23.13 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 1RB#0 | 22.97 | 24.37 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 1RB#49 | 22.94 | 24.34 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 1RB#99 | 22.55 | 23.95 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 50RB#0 | 21.94 | 23.34 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 50RB#25 | 21.87 | 23.27 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 50RB#50 | 21.63 | 23.03 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | 21.89 | 23.29 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#0 | 21.60 | 23.00 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#49 | 21.68 | 23.08 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#99 | 21.64 | 23.04 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#0 | 20.88 | 22.28 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#25 | 20.90 | 22.30 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#50 | 20.95 | 22.35 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 20.88 | 22.28 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#0 | 21.52 | 22.92 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#49 | 21.72 | 23.12 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#99 | 21.48 | 22.88 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#0 | 20.83 | 22.23 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#25 | 20.86 | 22.26 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#50 | 20.87 | 22.27 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 20.88 | 22.28 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#0 | 21.66 | 23.06 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#49 | 21.56 | 22.96 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#99 | 21.37 | 22.77 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#0 | 20.96 | 22.36 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#25 | 20.91 | 22.31 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#50 | 20.61 | 22.01 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 20.92 | 22.32 | 30.00 | 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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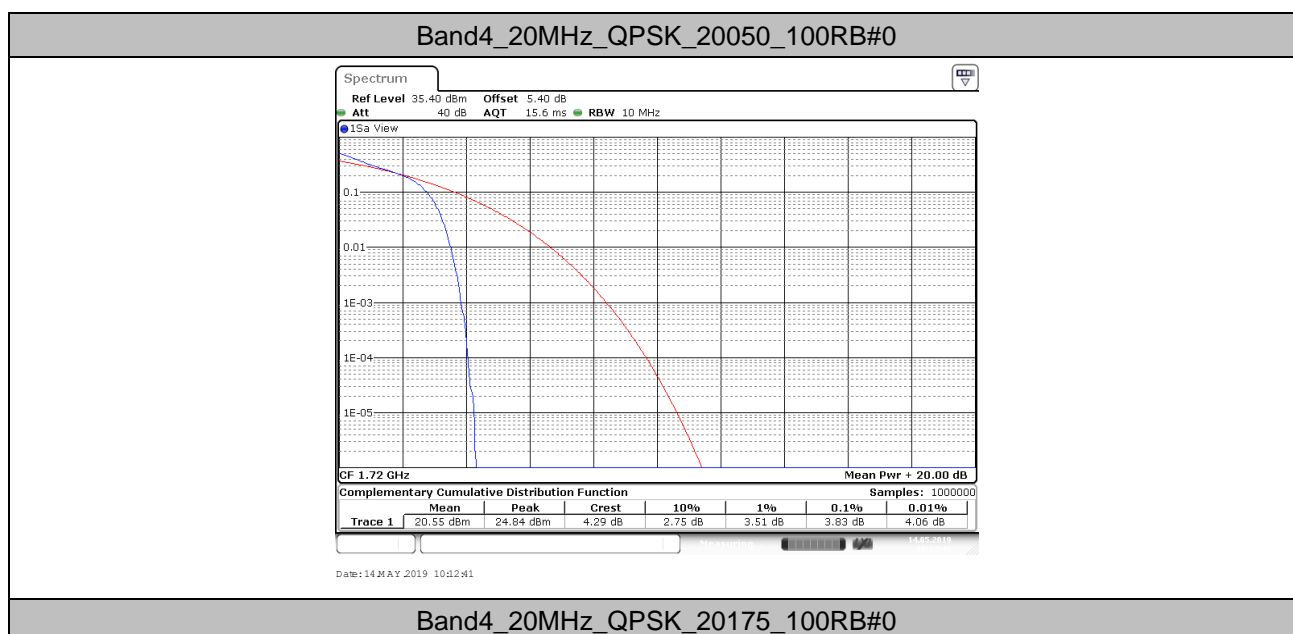
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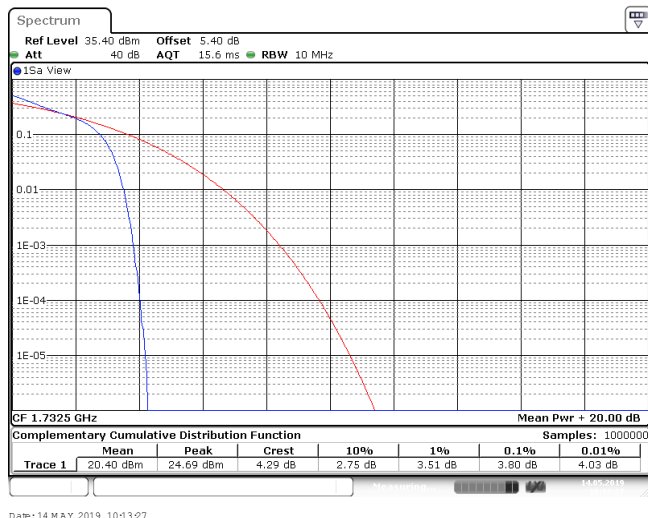
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

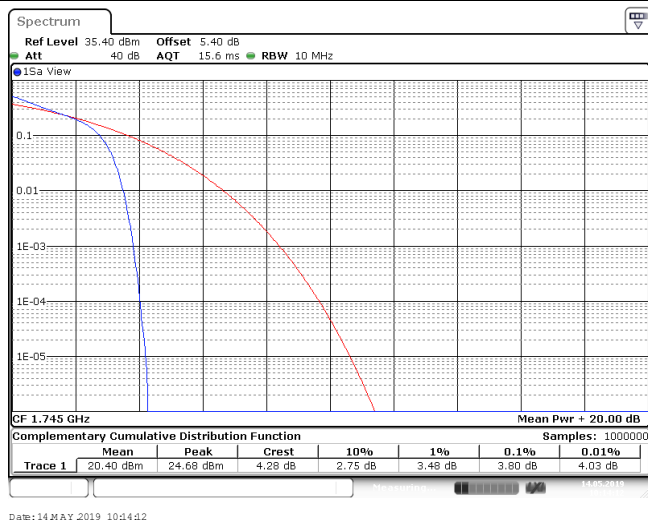
| BAND | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | 3.83 | 13 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | 3.80 | 13 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | 3.80 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 5.65 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 5.62 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 5.59 | 13 | PASS |

2.2. Test Plots





Band4_20MHz_QPSK_20300_100RB#0

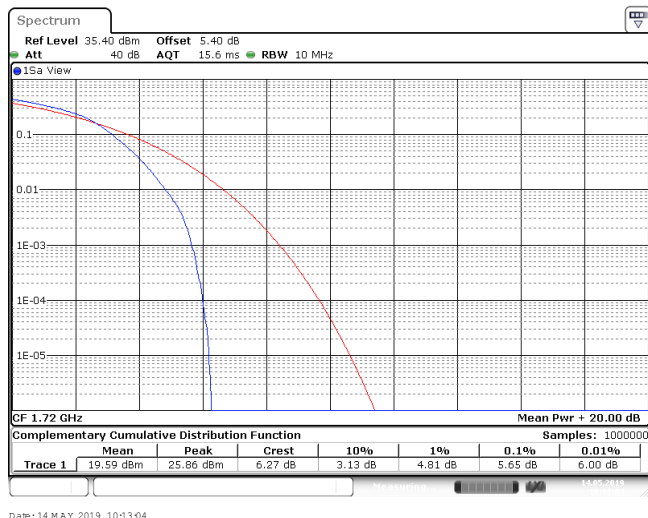


Band4_20MHz_16QAM_20050_100RB#0

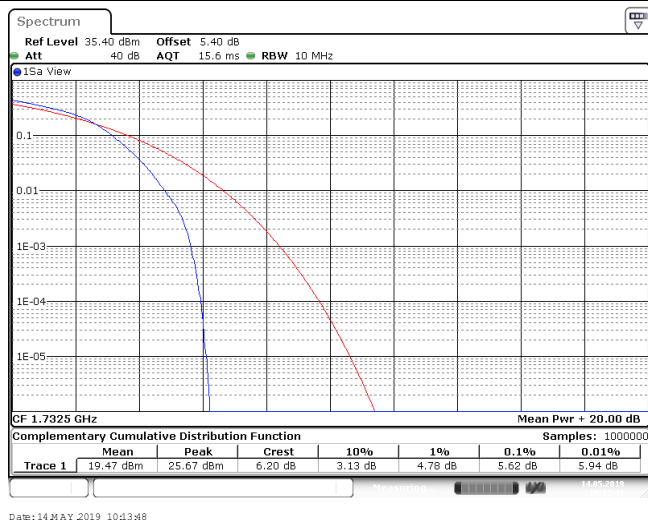


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Band4_20MHz_16QAM_20175_100RB#0

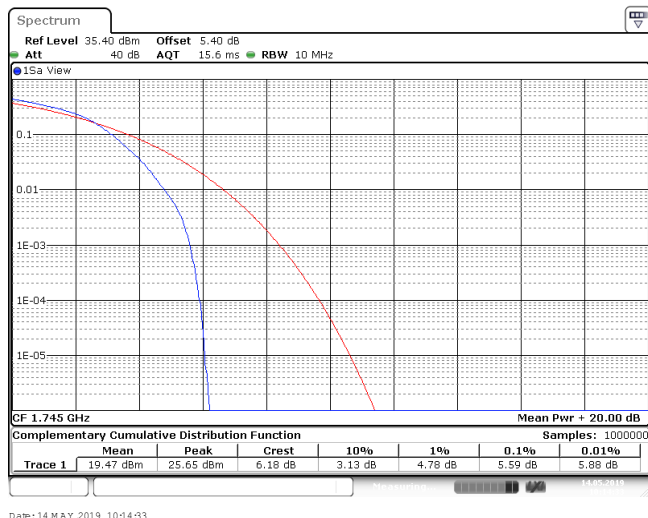


Band4_20MHz_16QAM_20300_100RB#0



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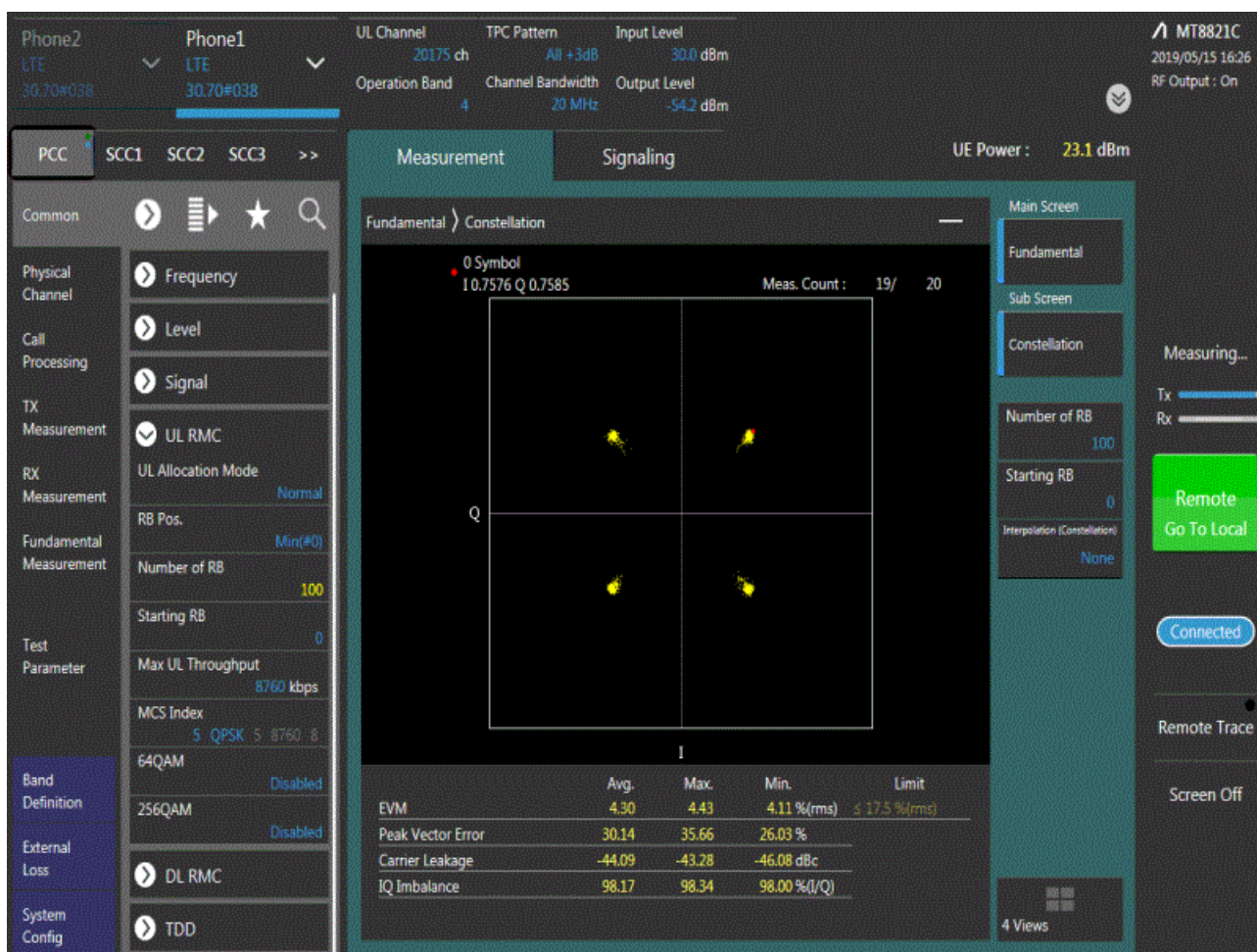
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3. Modulation Characteristics

3.1. Test BAND = LTE Band 4

3.2. Test Mode = LTE /TM1 20MHz

3.2.1. Test Channel = MCH



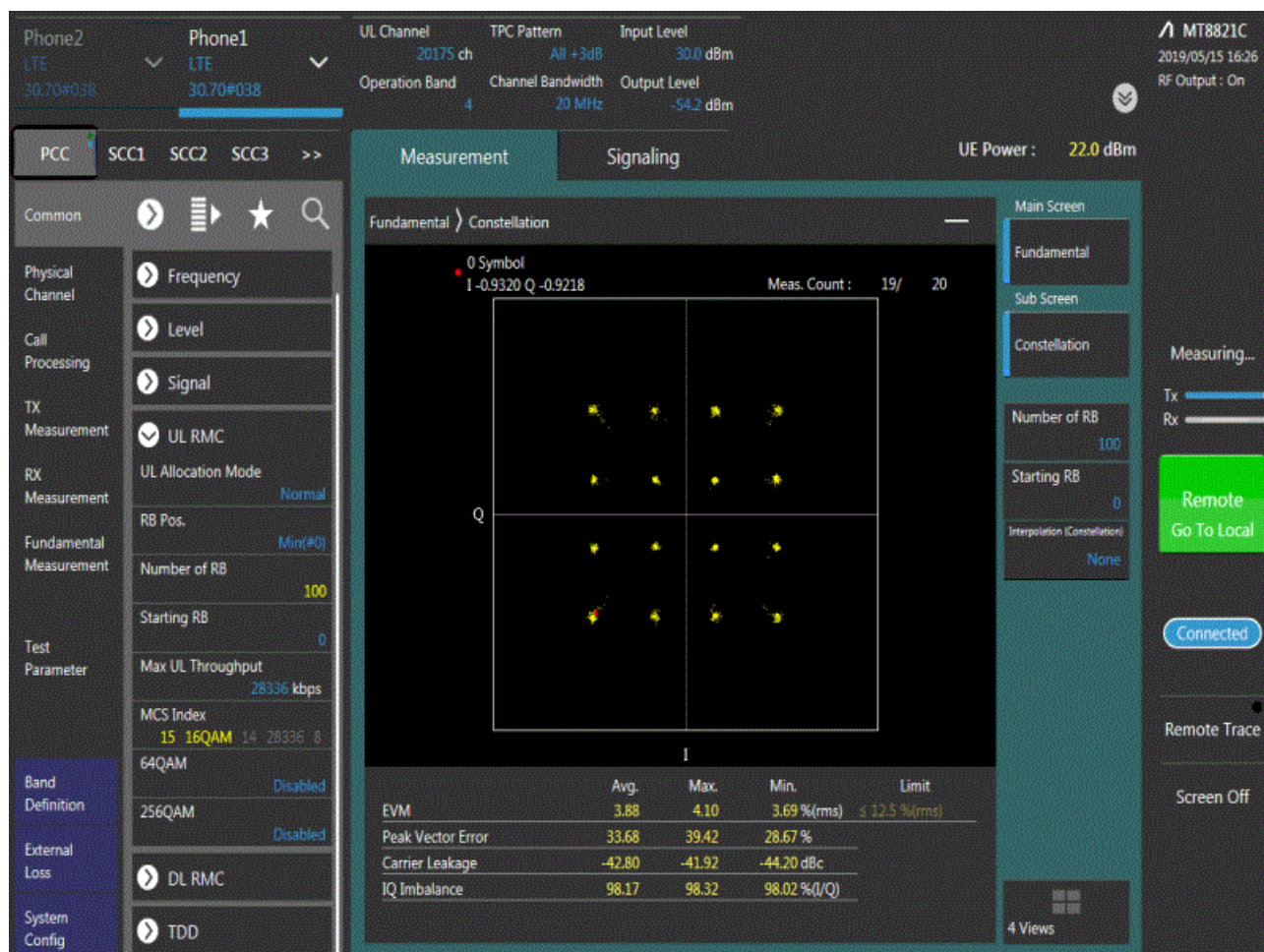
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3.3. Test Mode = LTE /TM2 20MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | 1.094 | 1.305 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | 1.097 | 1.302 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | 1.094 | 1.299 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | 1.094 | 1.296 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | 1.094 | 1.287 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | 1.094 | 1.293 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 15RB#0 | 2.697 | 3.012 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 15RB#0 | 2.697 | 3.024 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 15RB#0 | 2.697 | 3.012 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | 2.685 | 2.976 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | 2.685 | 2.976 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | 2.685 | 2.976 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 25RB#0 | 4.466 | 4.920 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 25RB#0 | 4.476 | 4.910 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 25RB#0 | 4.476 | 4.890 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | 4.496 | 4.970 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | 4.486 | 4.980 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 25RB#0 | 4.486 | 4.990 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 50RB#0 | 8.911 | 9.720 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 50RB#0 | 8.911 | 9.740 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 50RB#0 | 8.911 | 9.720 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0 | 8.931 | 9.780 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0 | 8.911 | 9.740 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0 | 8.931 | 9.740 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 75RB#0 | 13.397 | 14.640 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 75RB#0 | 13.427 | 14.700 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0 | 13.427 | 14.730 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0 | 13.427 | 14.700 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0 | 13.427 | 14.670 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0 | 13.397 | 14.700 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | 17.822 | 19.320 | PASS |



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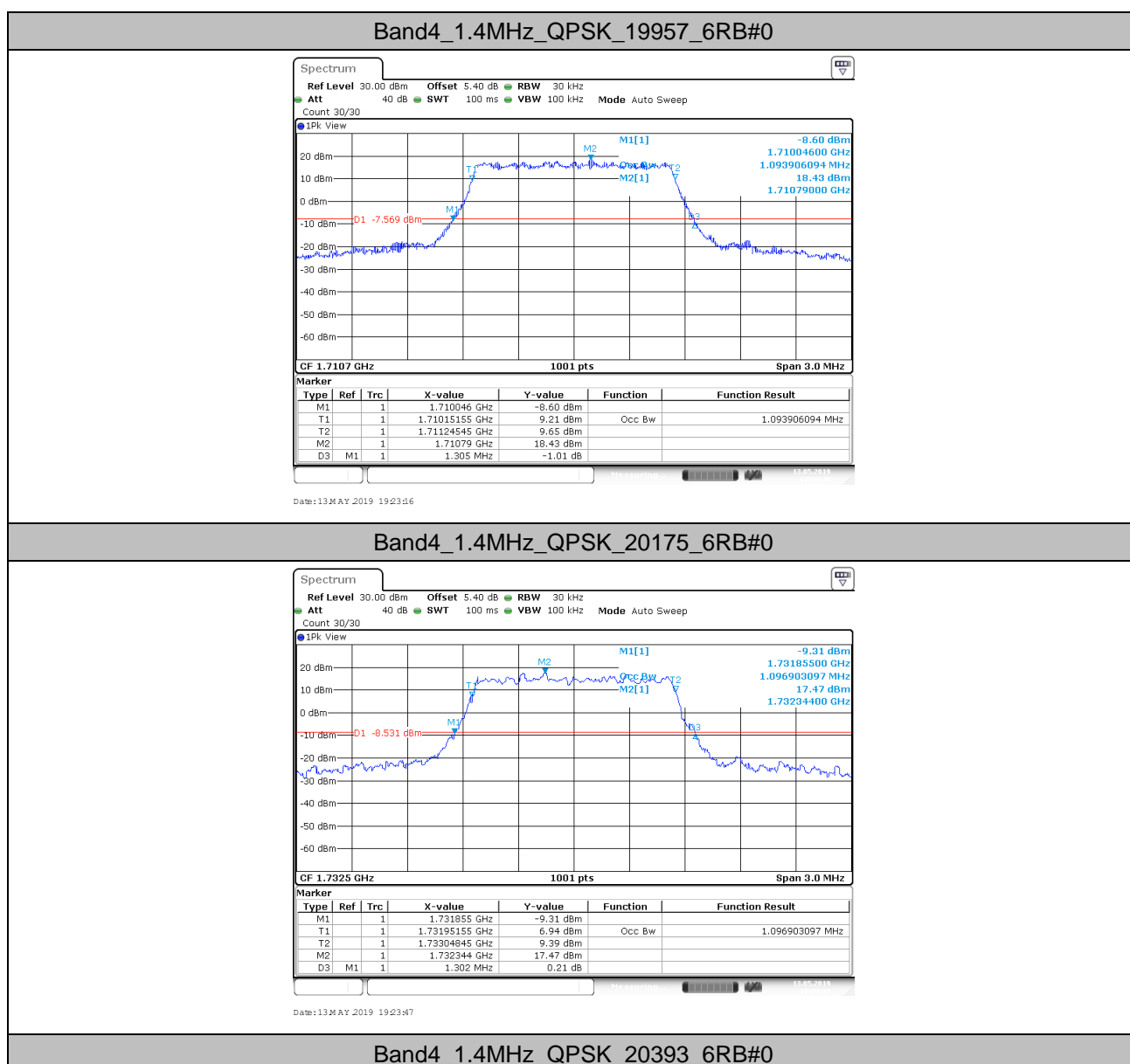
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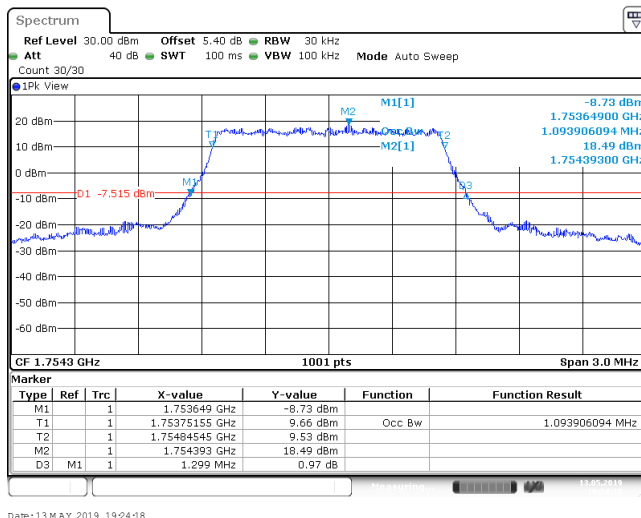
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| | | | | | | | |
|-------|-------|-------|-------|---------|--------|--------|------|
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | 17.822 | 19.360 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | 17.862 | 19.360 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 17.822 | 19.400 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 17.862 | 19.480 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 17.862 | 19.480 | PASS |

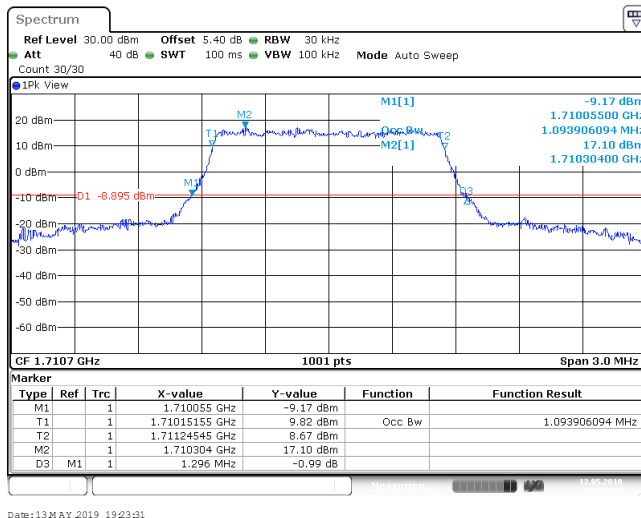
4.2. Test Plots





Date: 13 MAY 2019 19:24:18

Band4_1.4MHz_16QAM_19957_6RB#0



Date: 13 MAY 2019 19:23:31

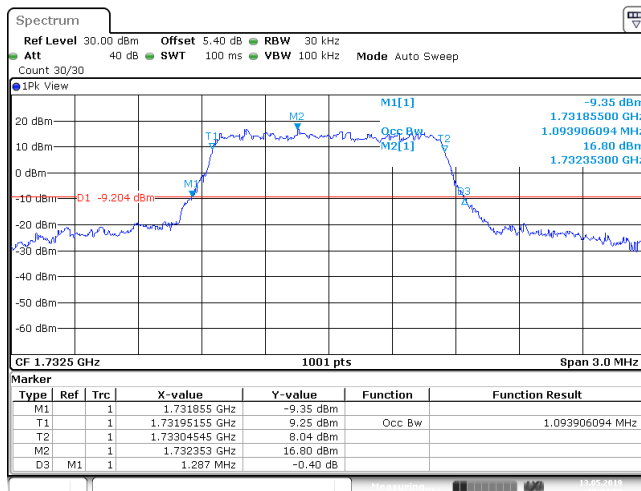
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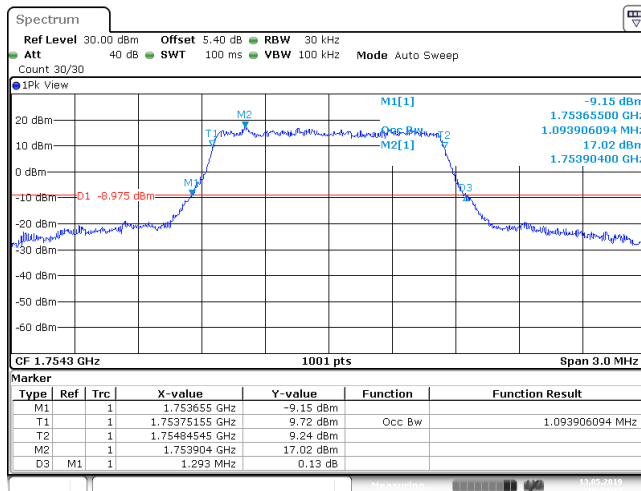
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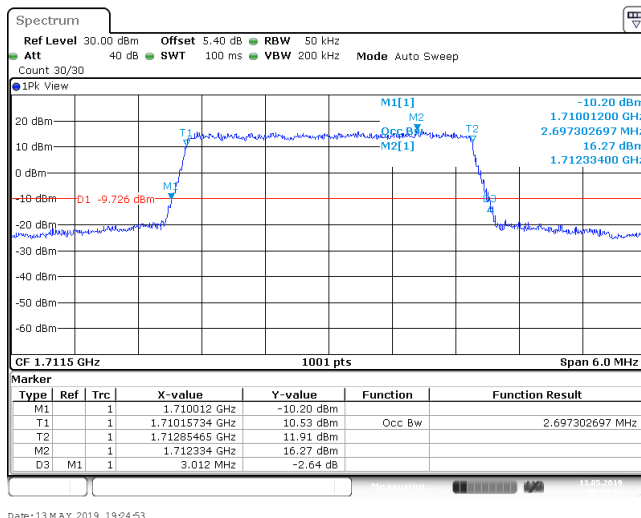
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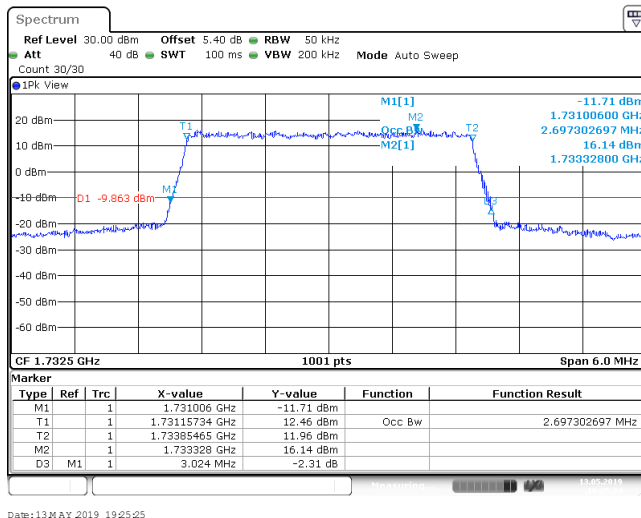
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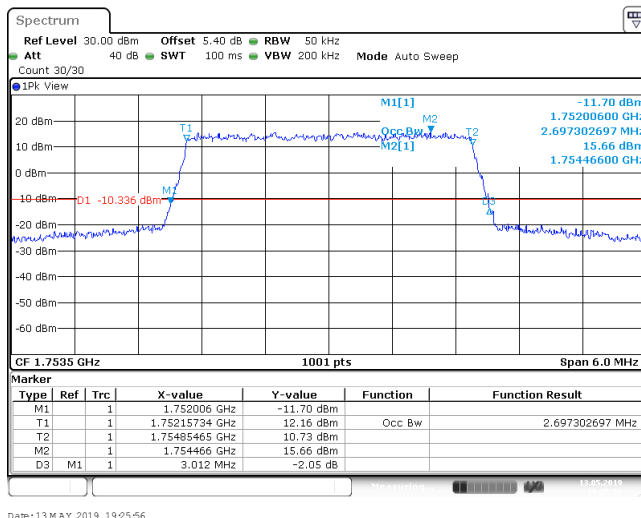


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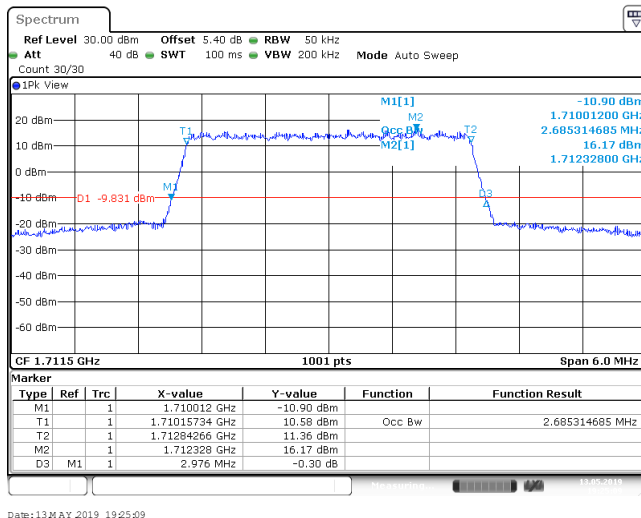


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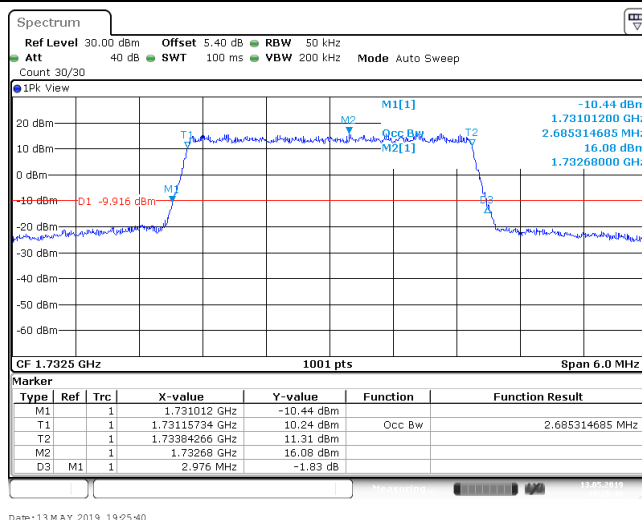


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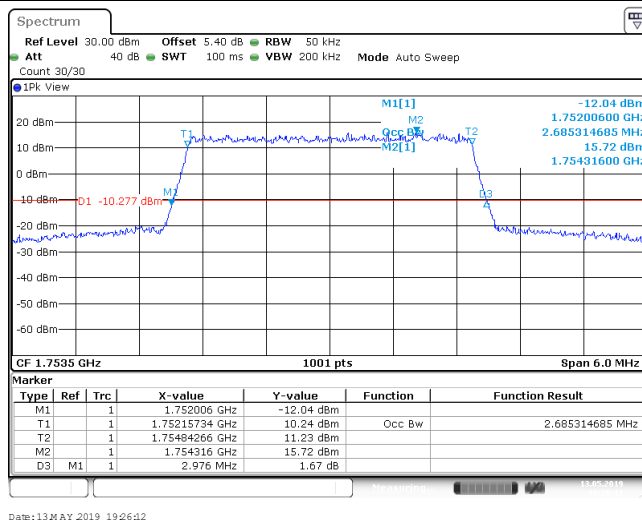


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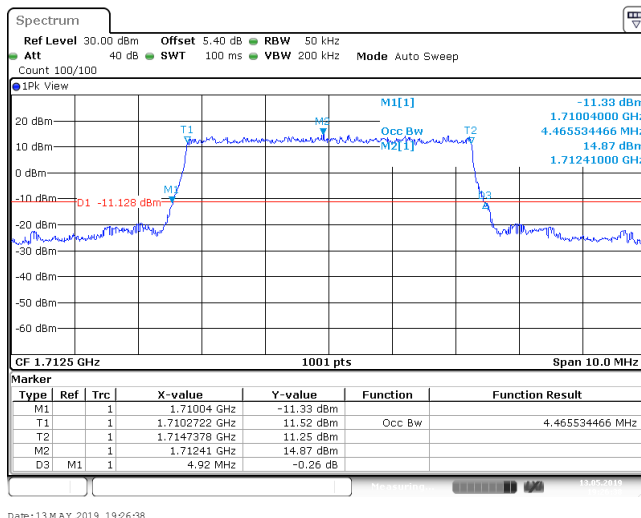


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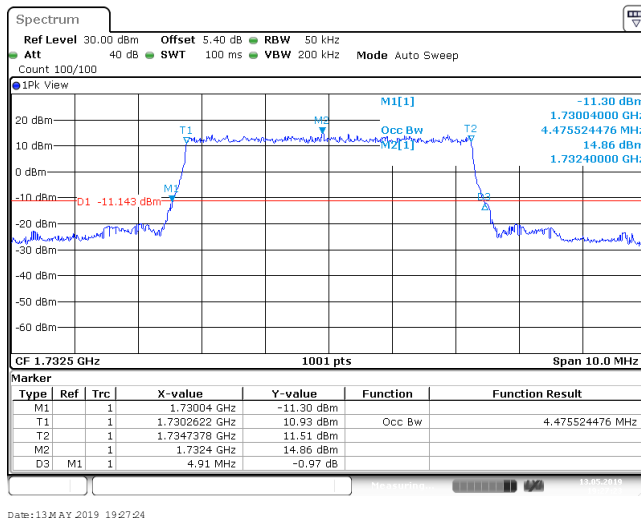


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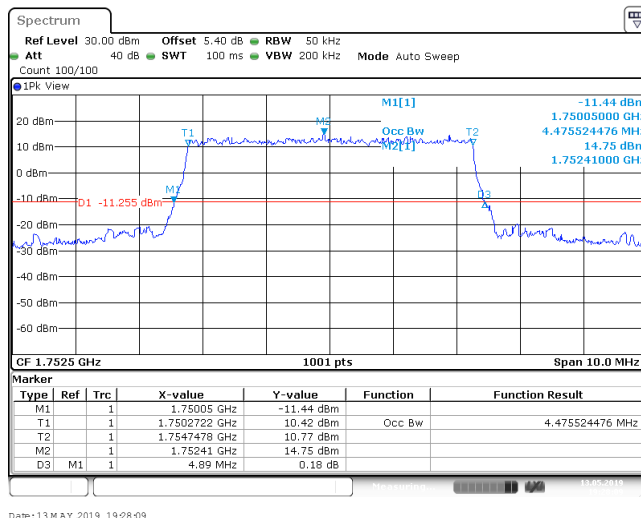


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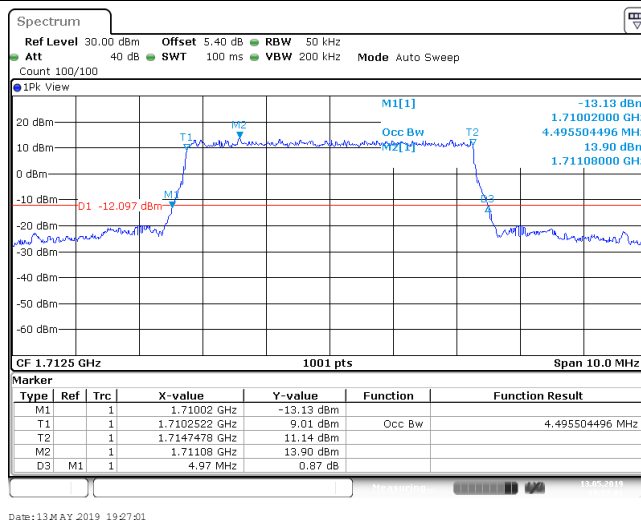


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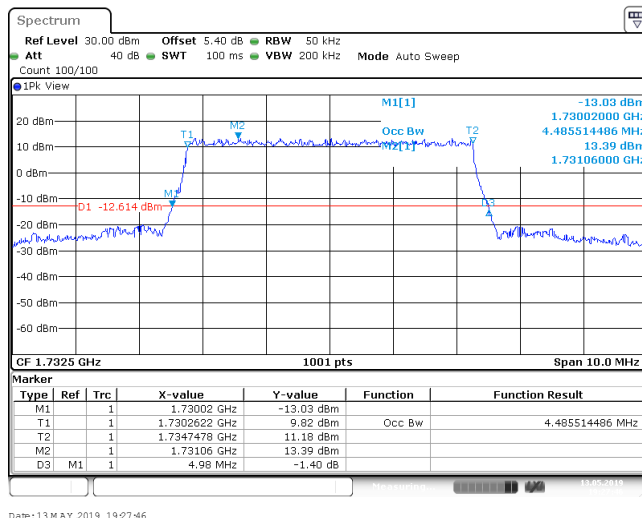


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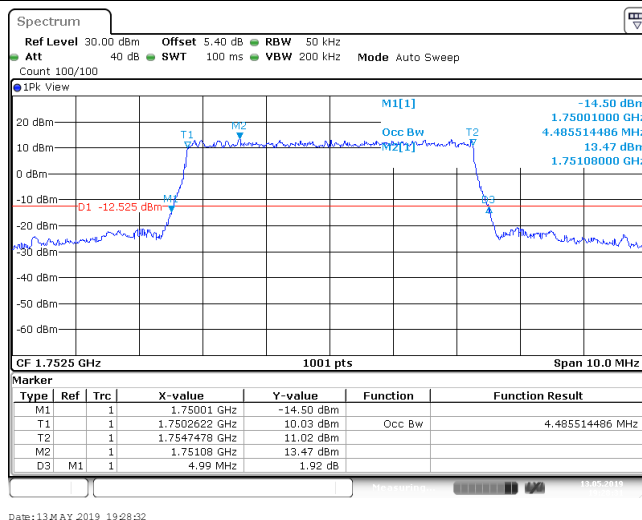


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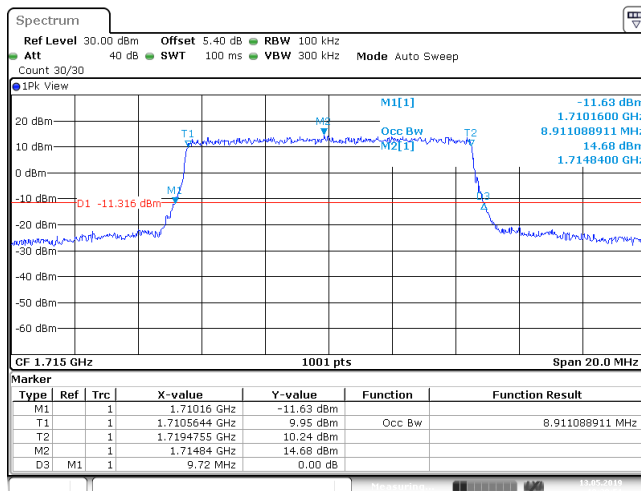


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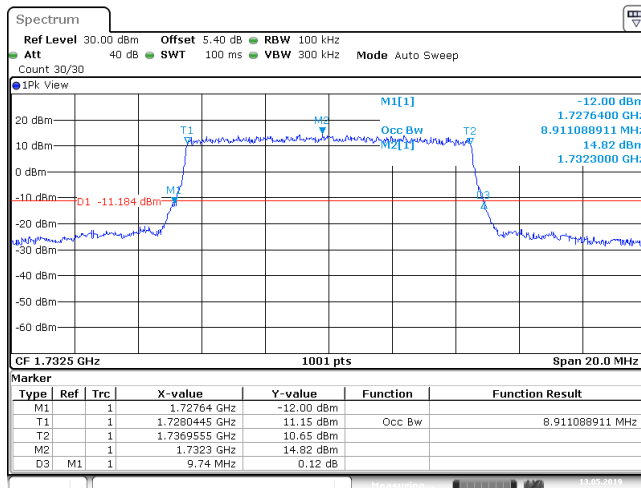
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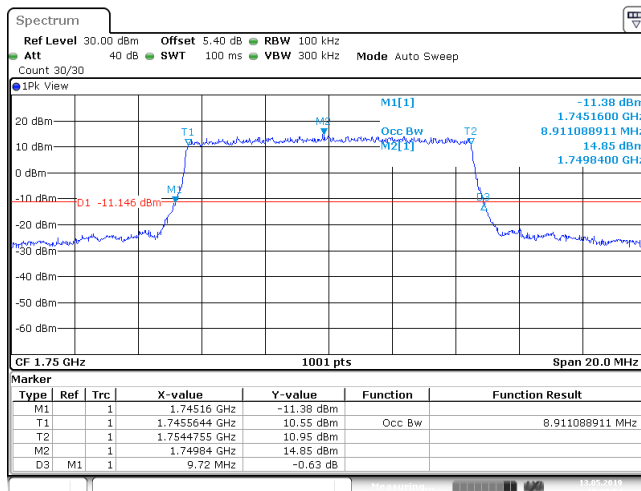
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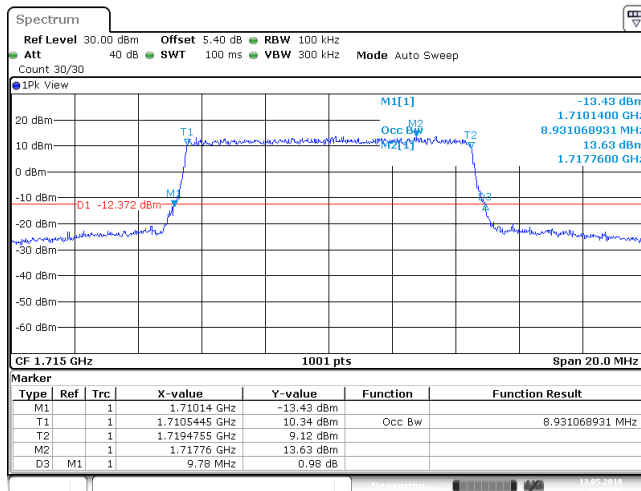
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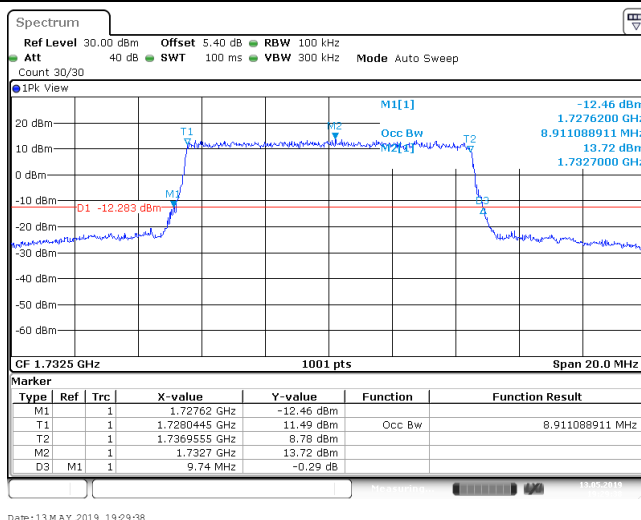
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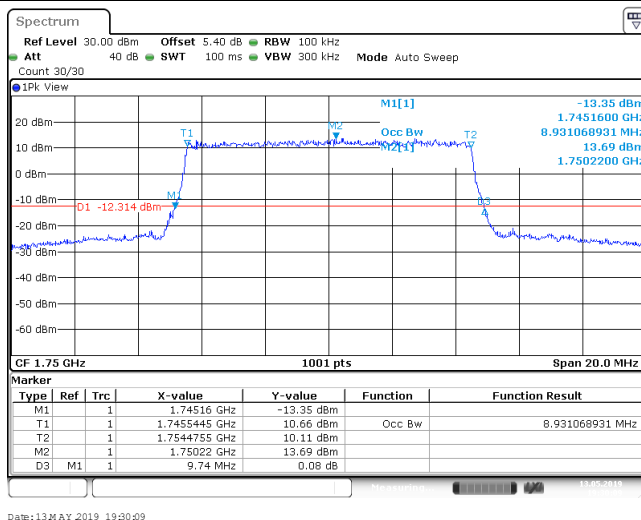
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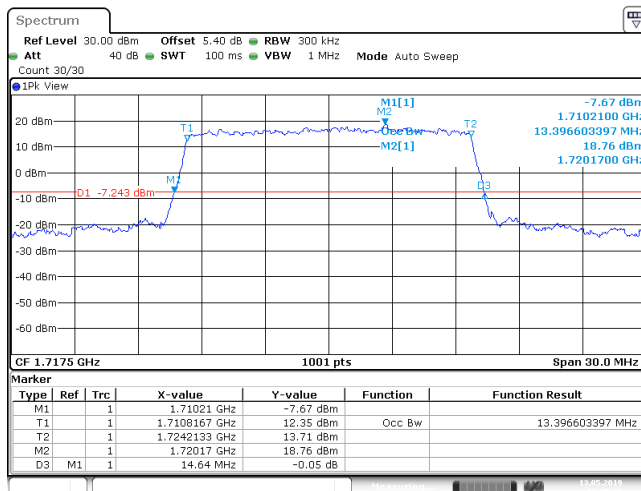


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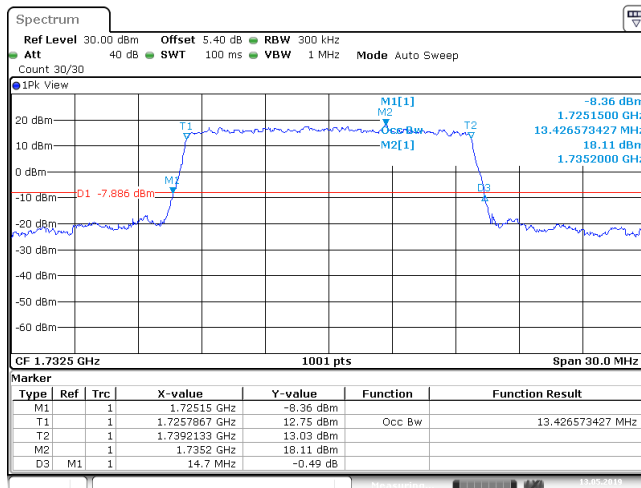
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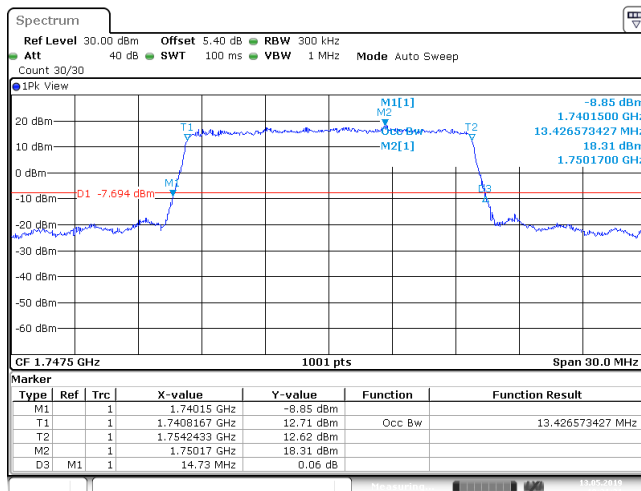
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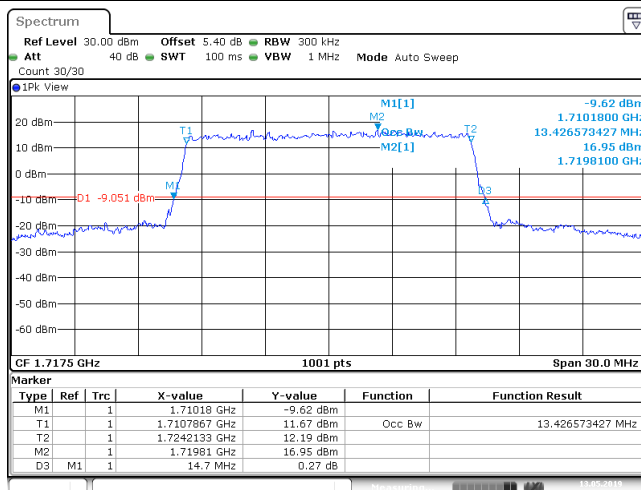
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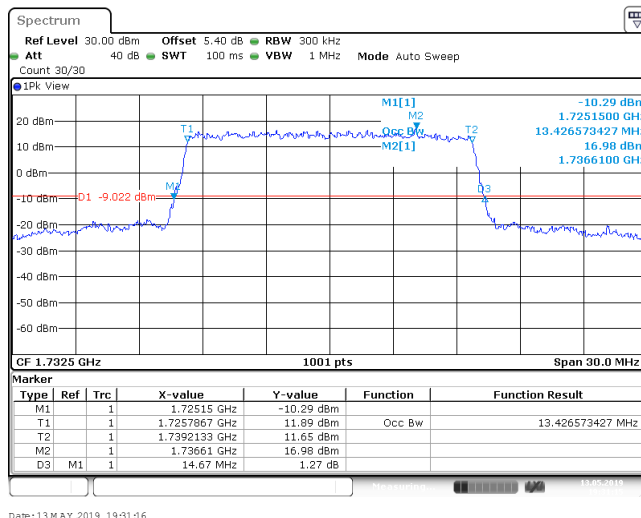
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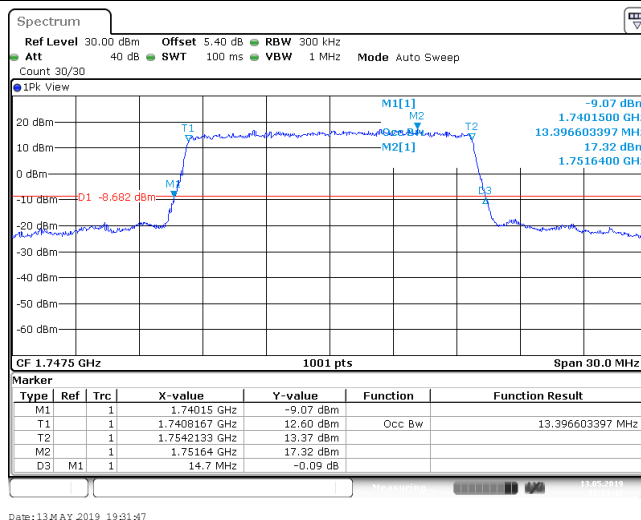
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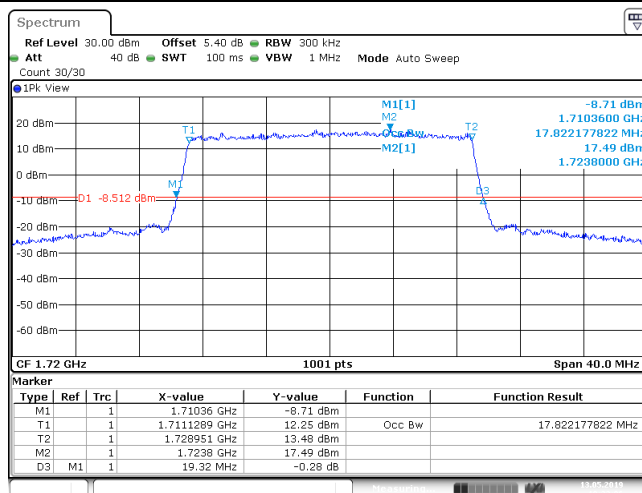


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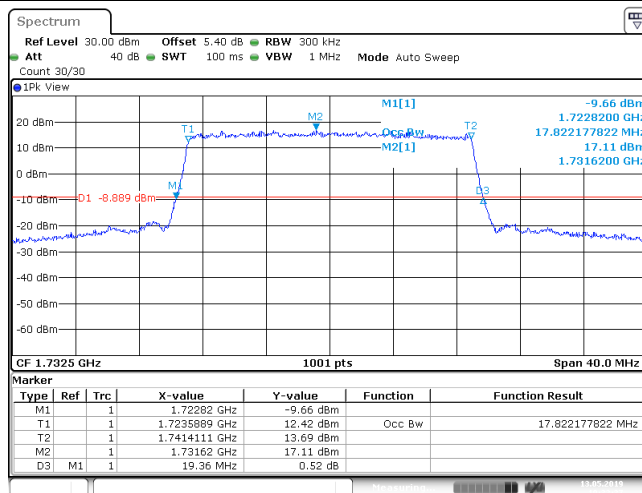
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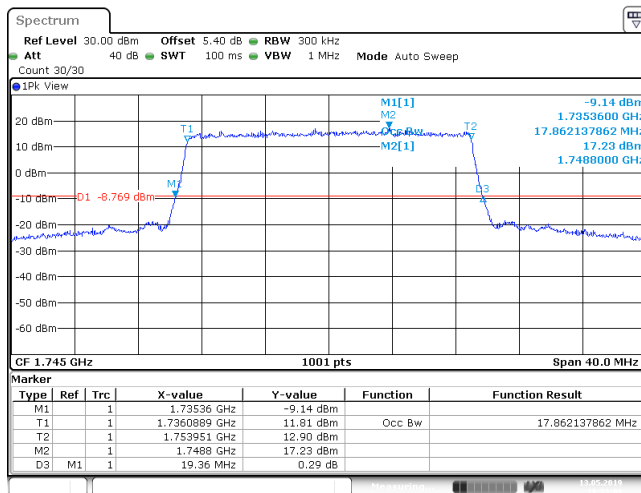
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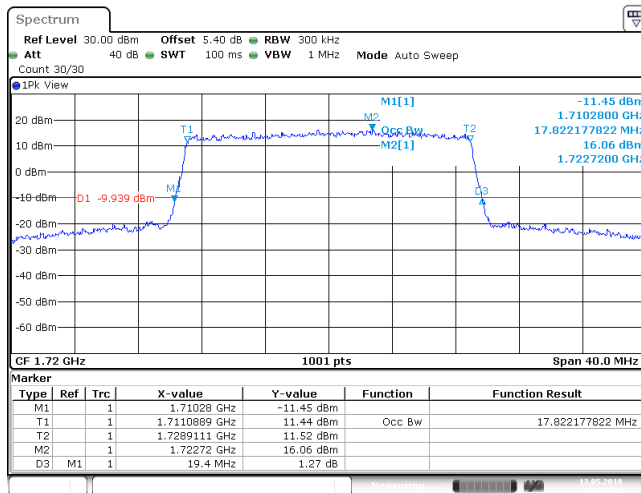
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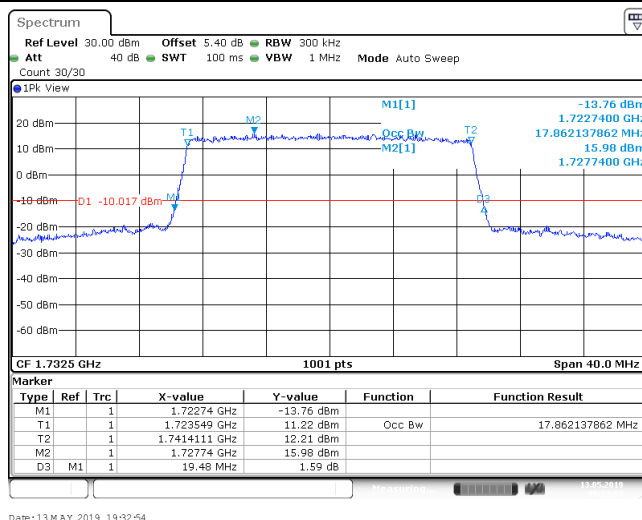
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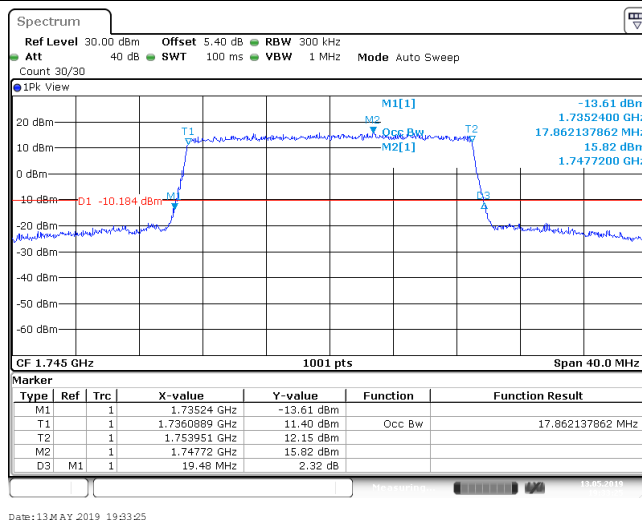
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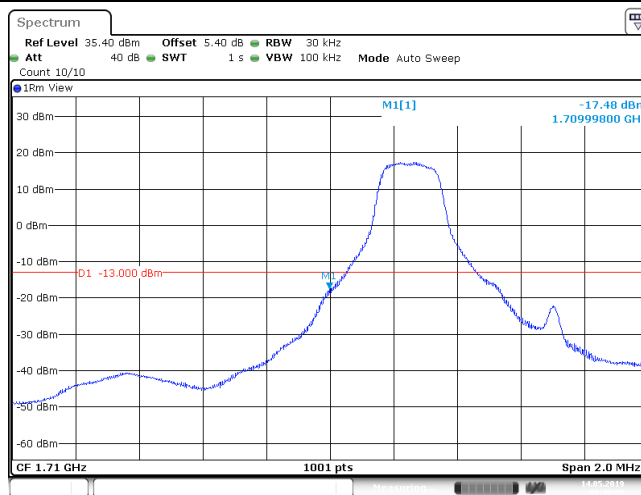
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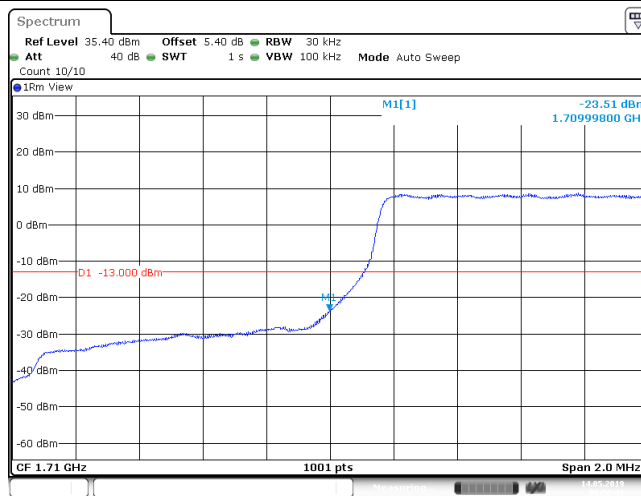
5. Band Edge Compliance

5.1. Test Plots

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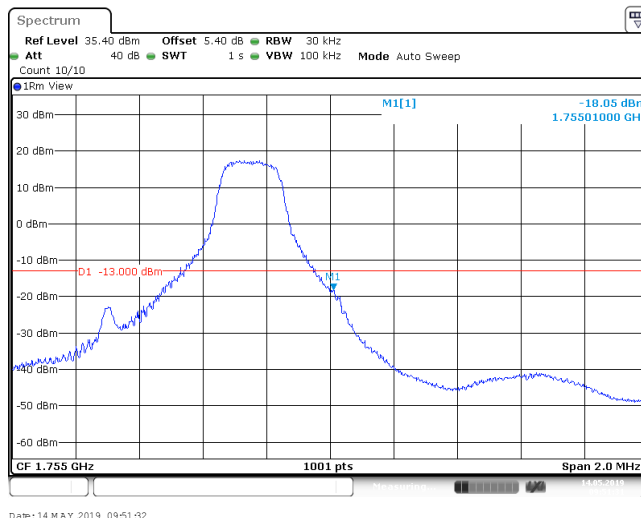


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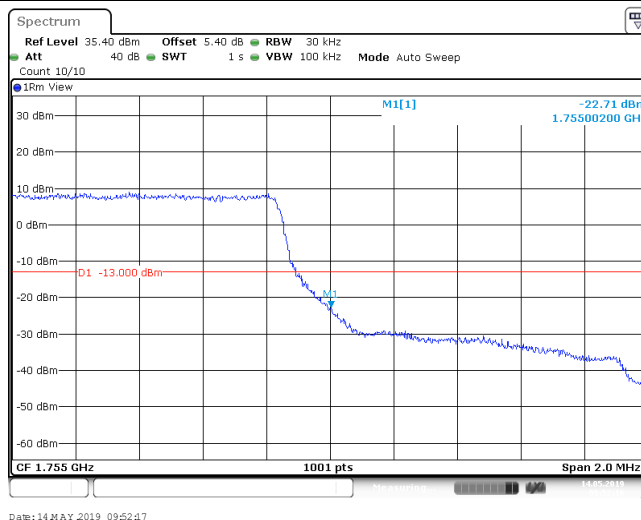


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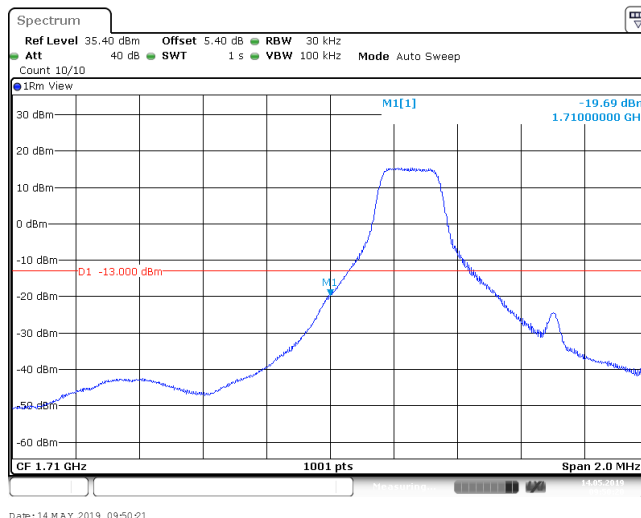


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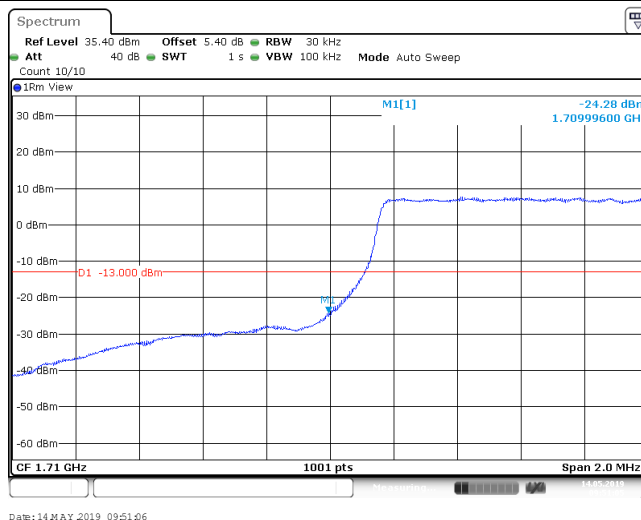


Band4_1.4MHz_16QAM_19957_1RB#0





Band4_1.4MHz_16QAM_19957_6RB#0



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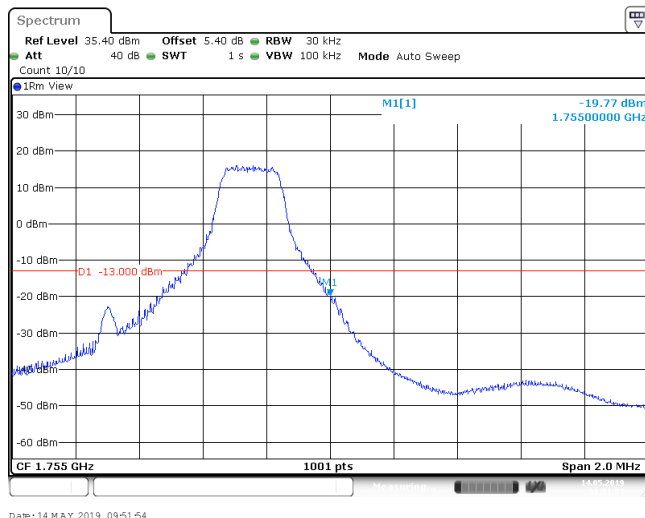


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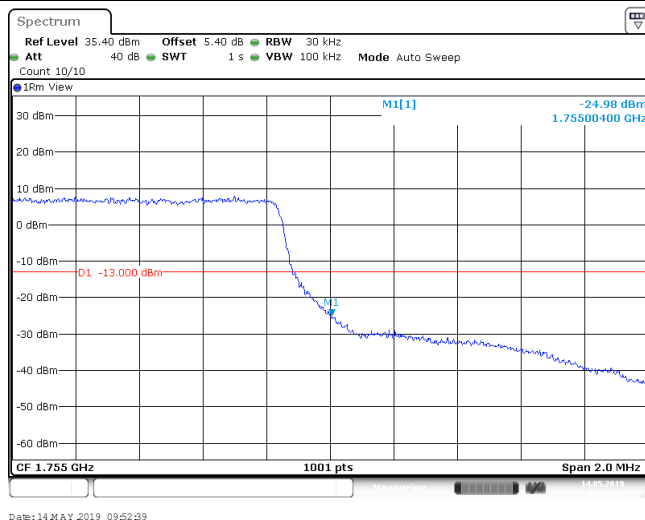
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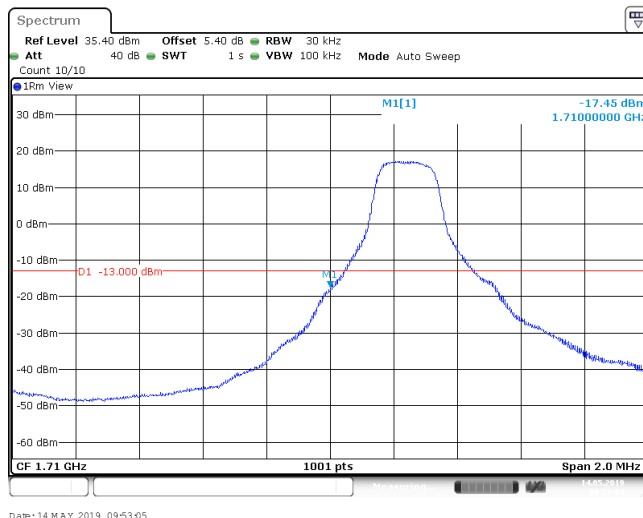


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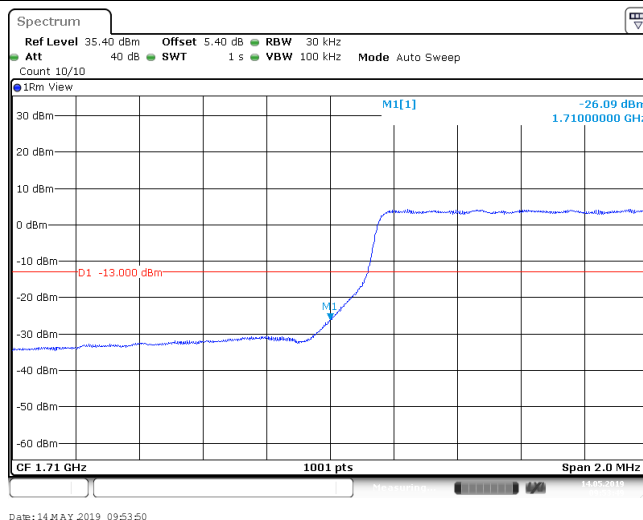


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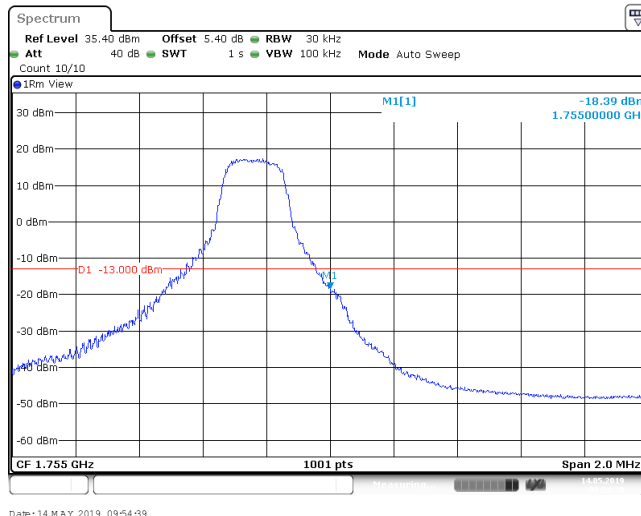


Band4_3MHz_QPSK_19965_15RB#0

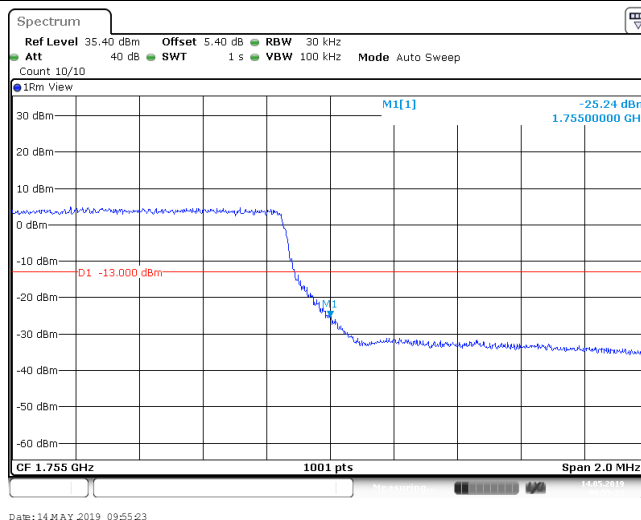


Band4_3MHz_QPSK_20385_1RB#14





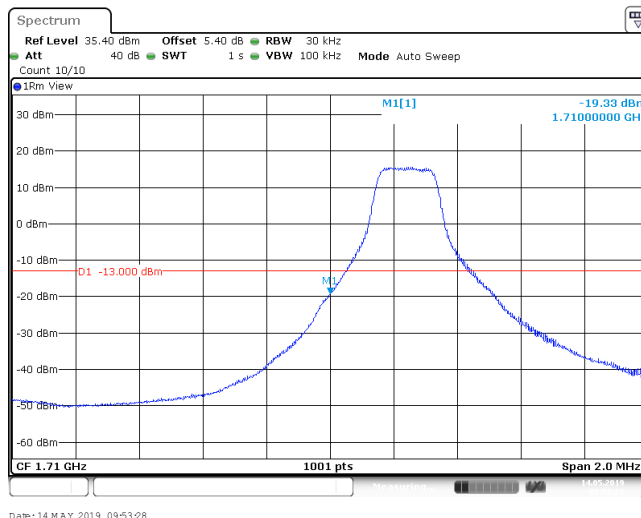
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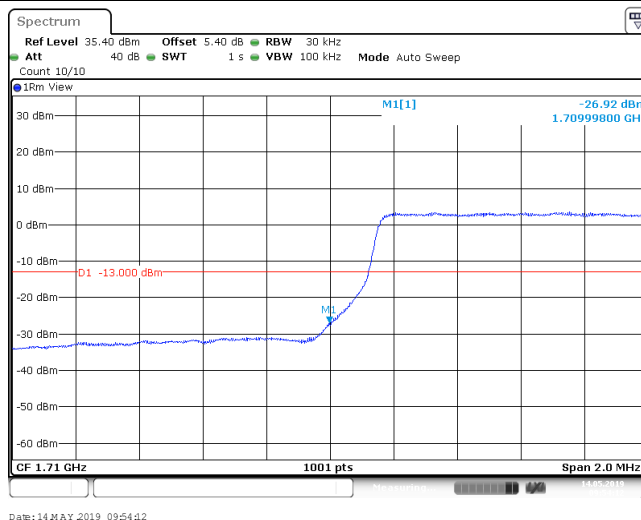
Band4_3MHz_16QAM_19965_1RB#0



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Band4_3MHz_16QAM_19965_15RB#0



Band4_3MHz_16QAM_20385_1RB#14

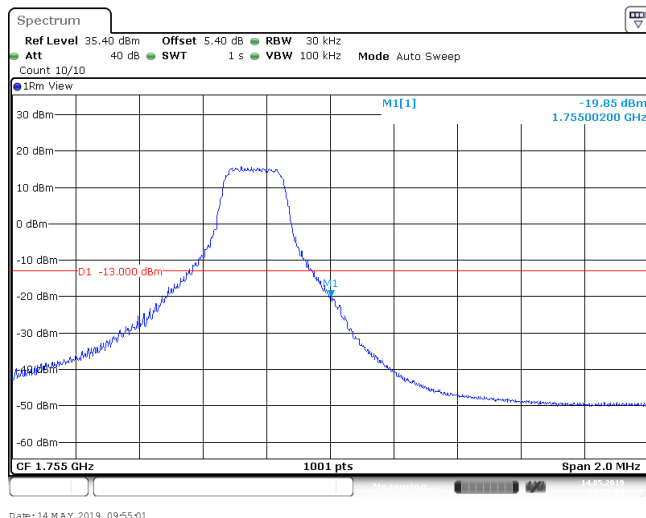


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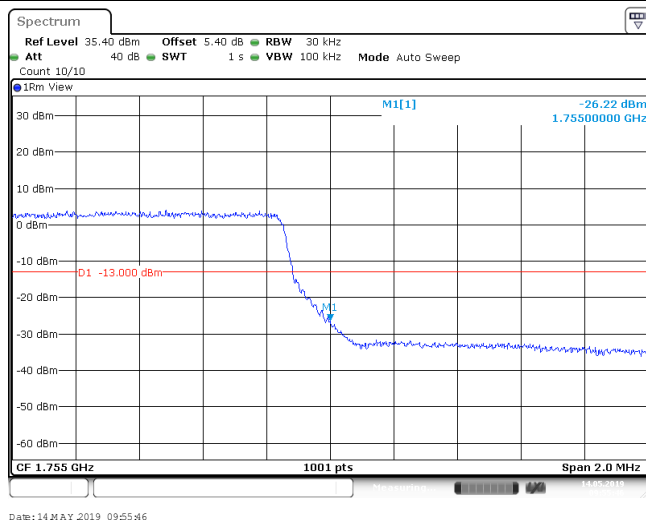
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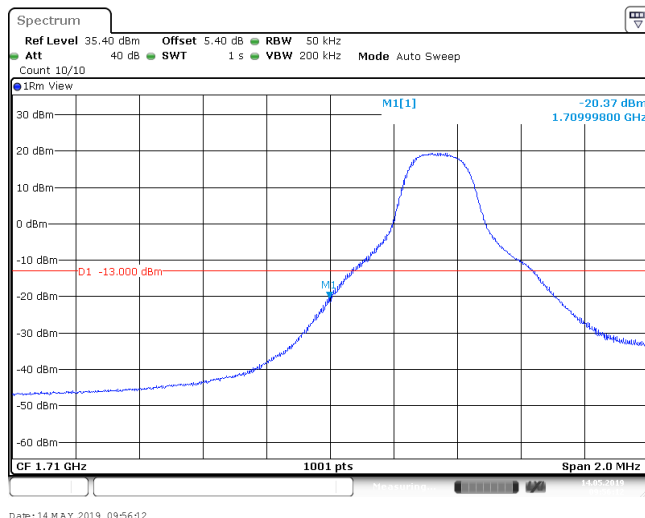


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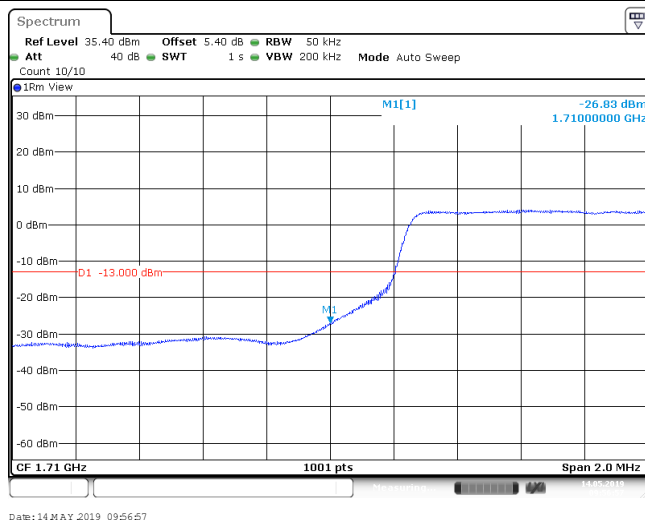


Band4_5MHz_QPSK_19975_1RB#0



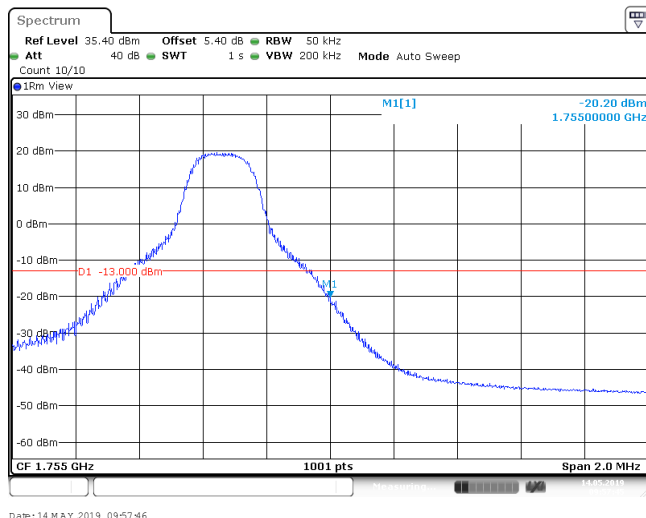


Band4_5MHz_QPSK_19975_25RB#0

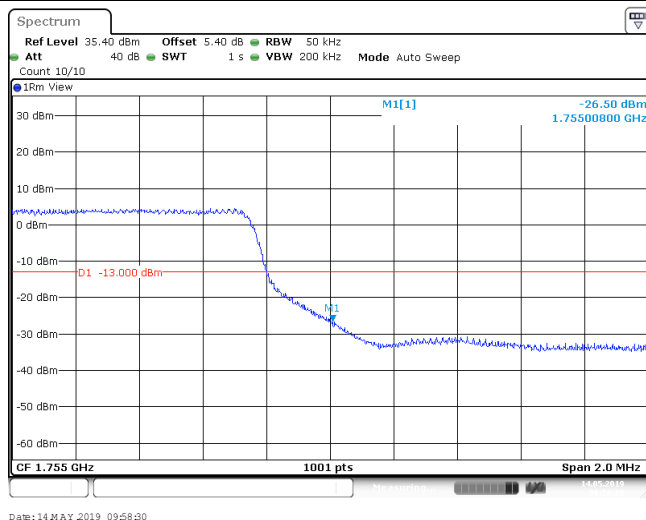


Band4_5MHz_QPSK_20375_1RB#24





Band4_5MHz_QPSK_20375_25RB#0



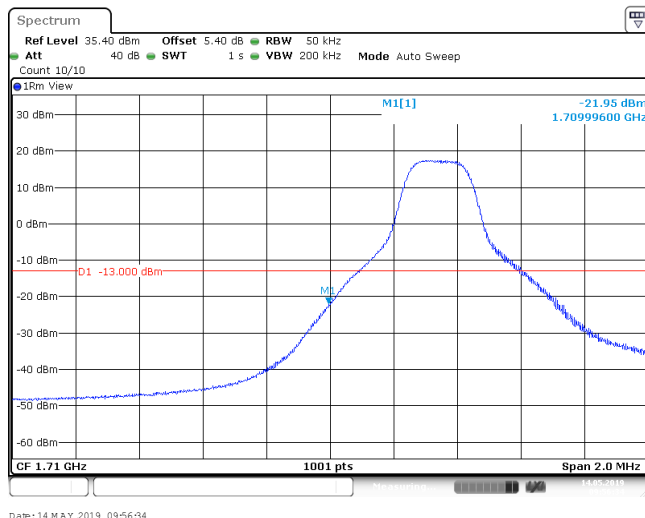
Band4_5MHz_16QAM_19975_1RB#0



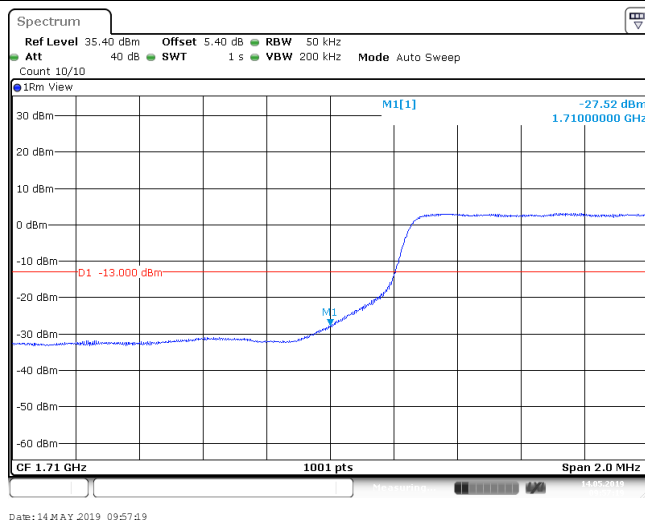
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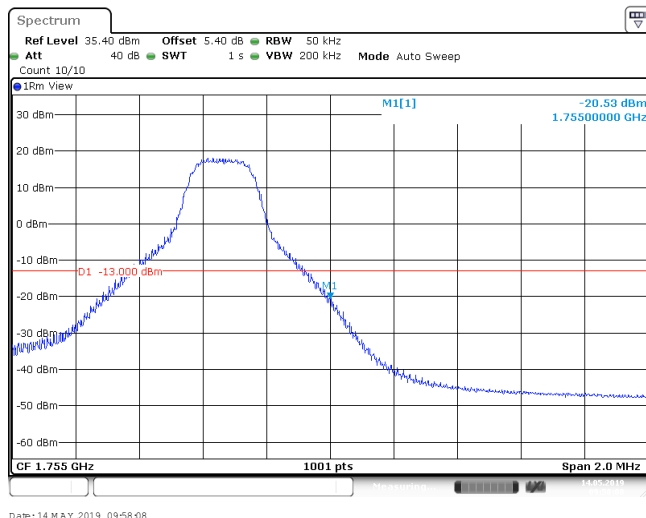


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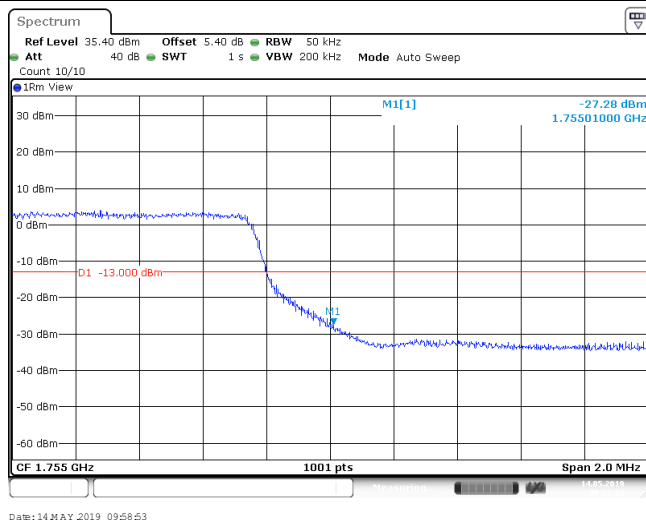


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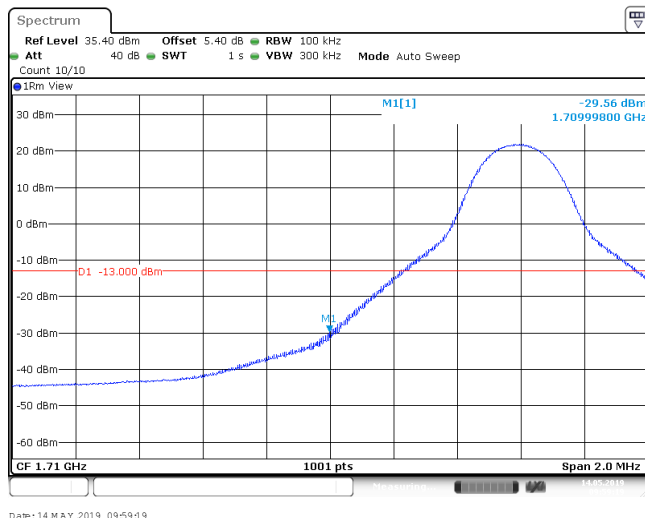


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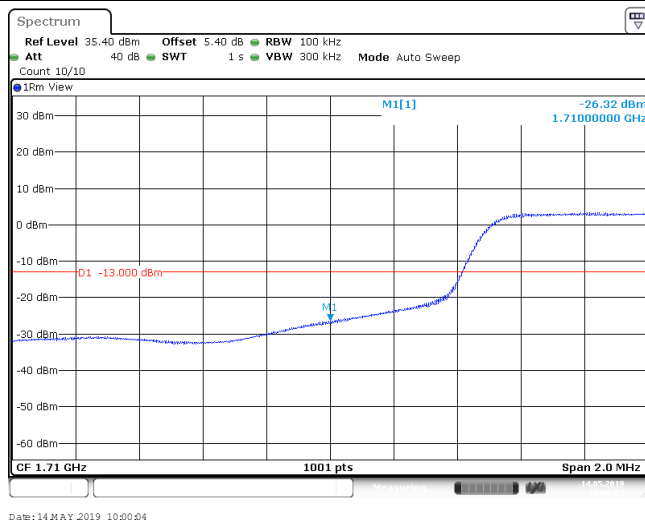


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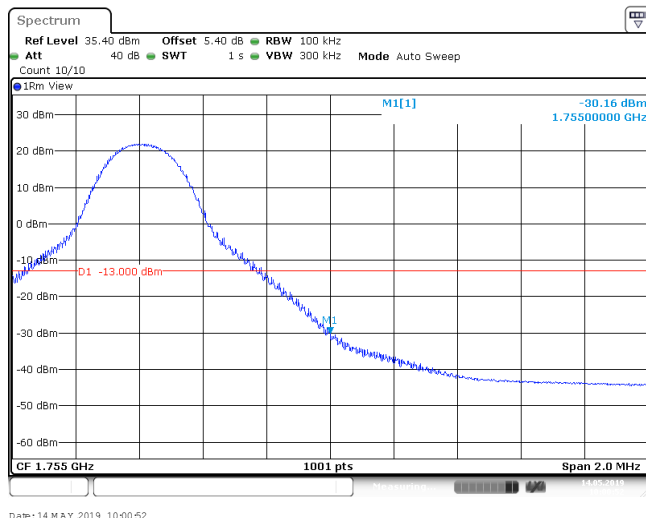


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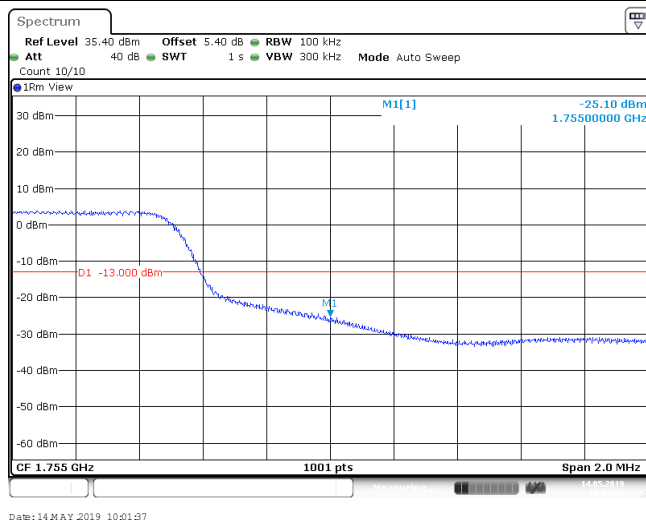


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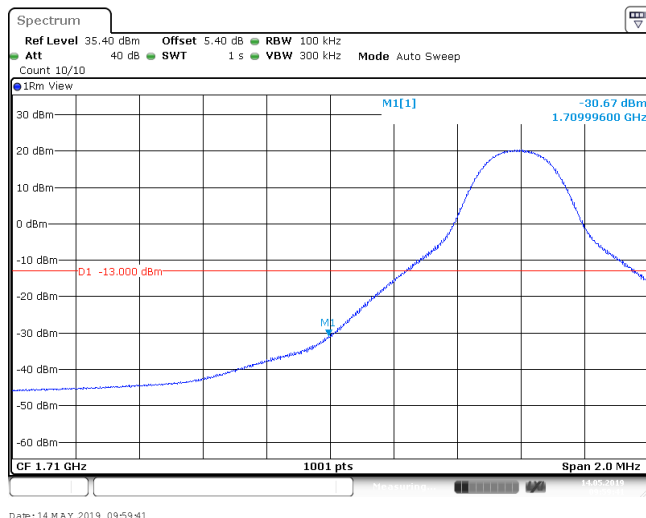


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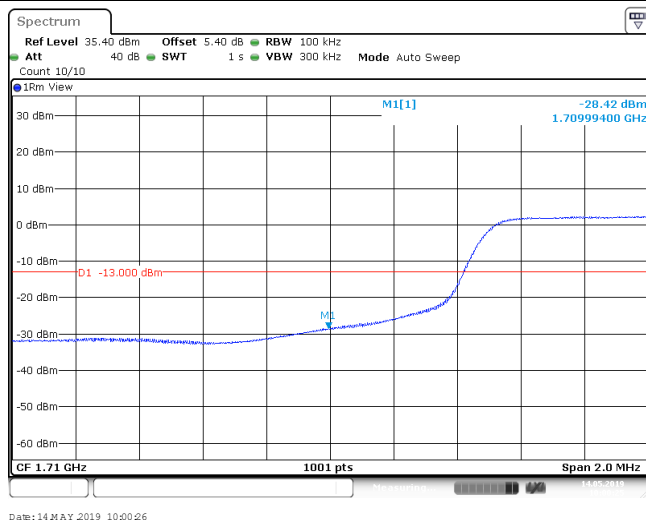


Band4_10MHz_16QAM_20000_1RB#0





Band4_10MHz_16QAM_20000_50RB#0



Band4_10MHz_16QAM_20350_1RB#49

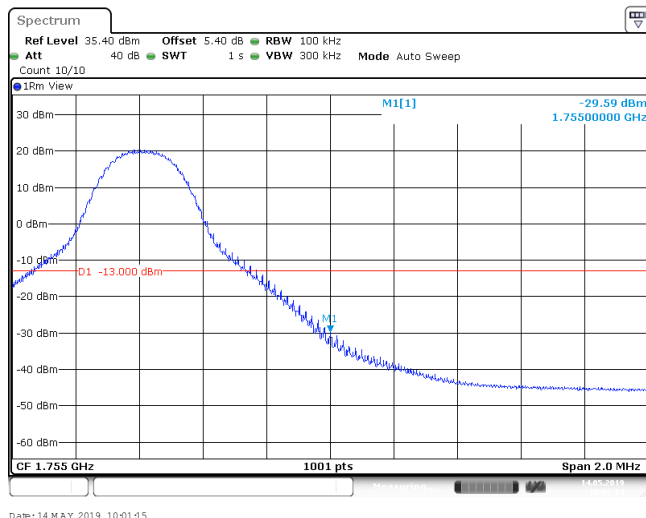


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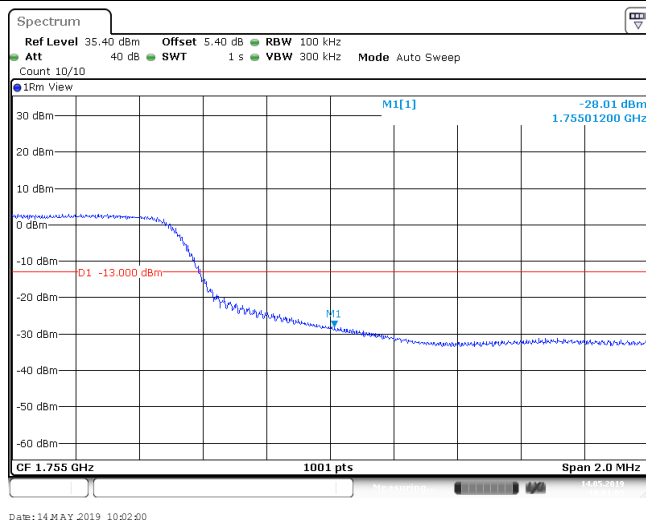
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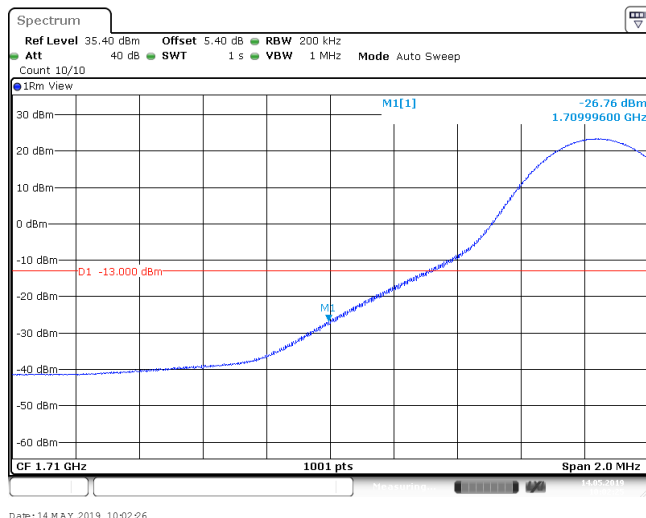


Band4_10MHz_16QAM_20350_50RB#0

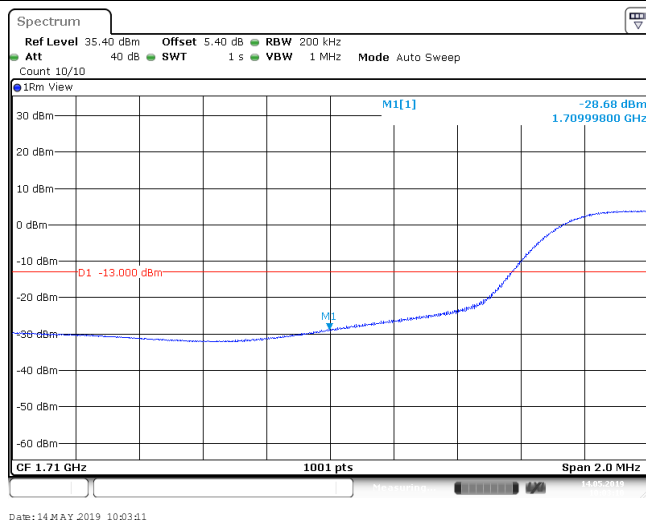


Band4_15MHz_QPSK_20025_1RB#0





Band4_15MHz_QPSK_20025_75RB#0

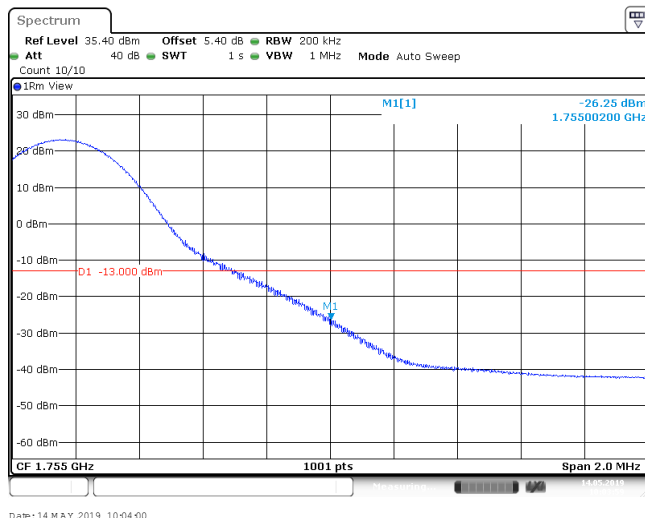


Band4_15MHz_QPSK_20325_1RB#74

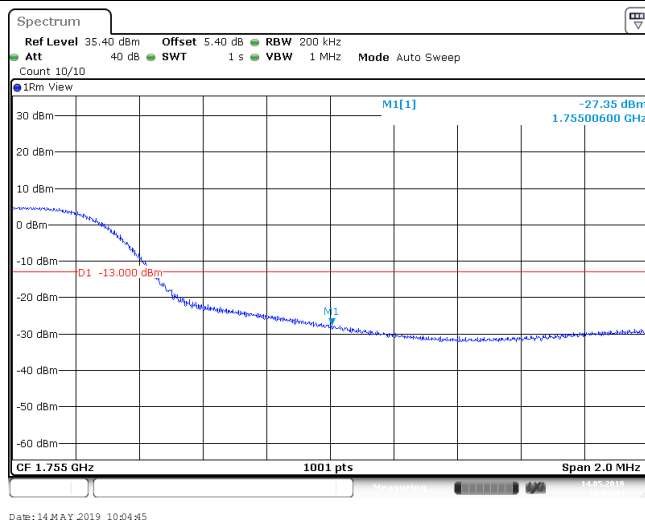


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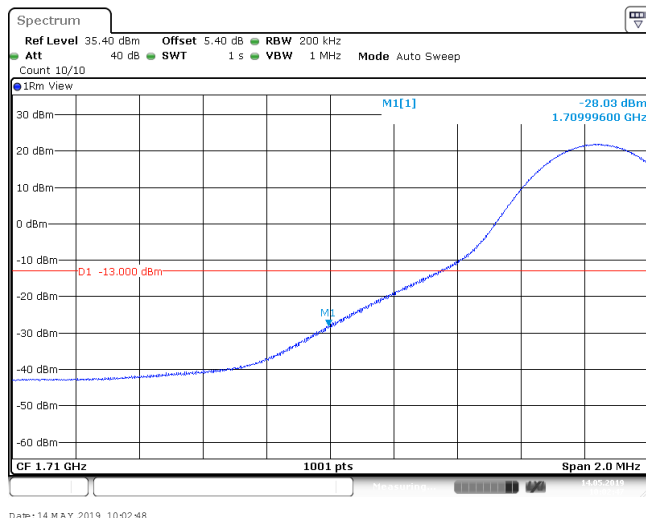


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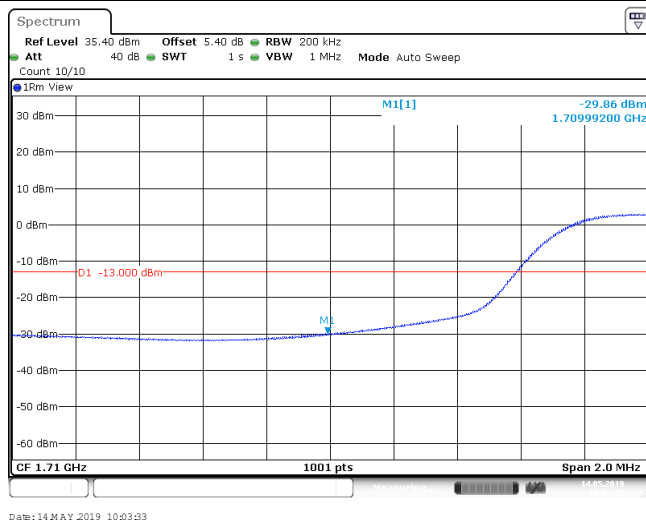


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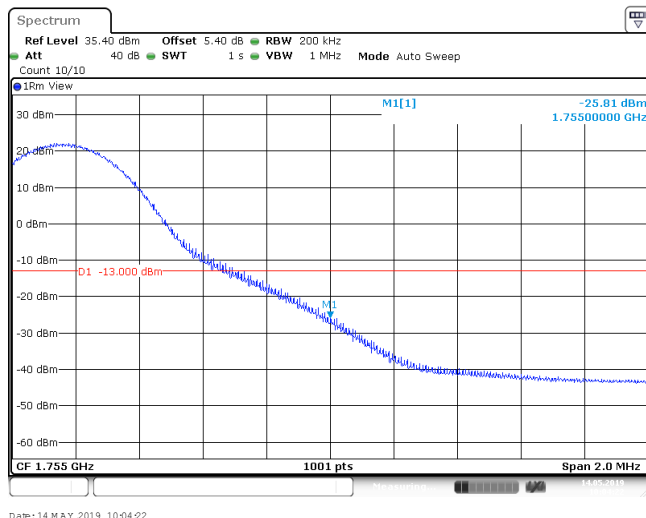
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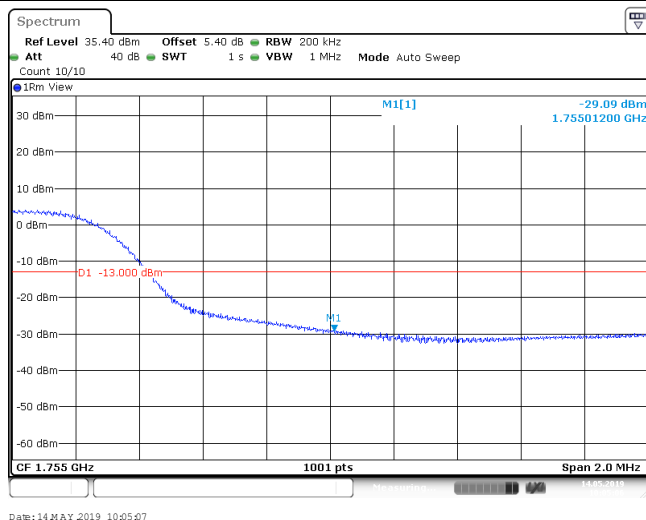
Band4_15MHz_16QAM_20325_1RB#74



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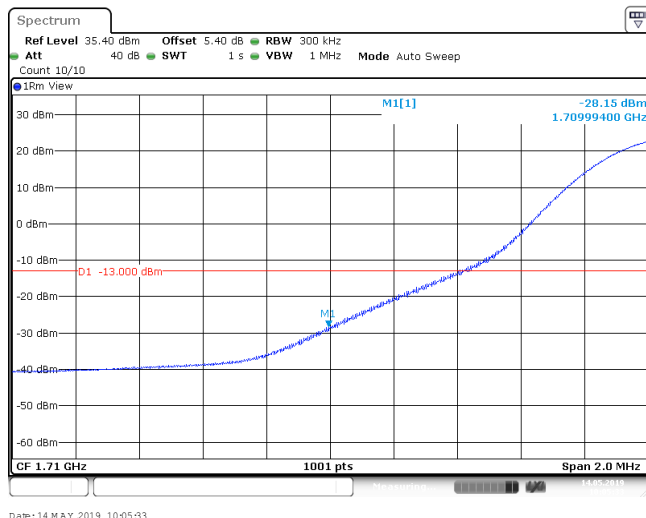


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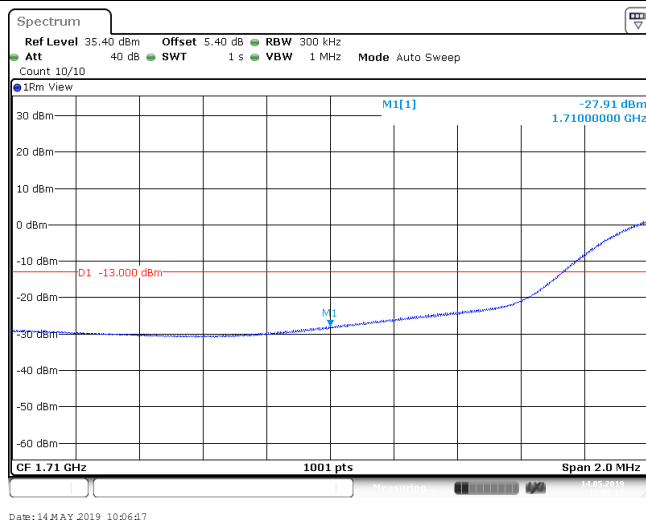


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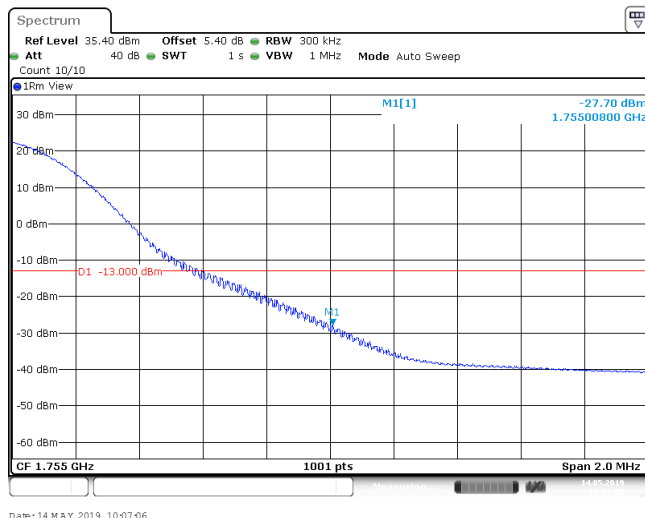


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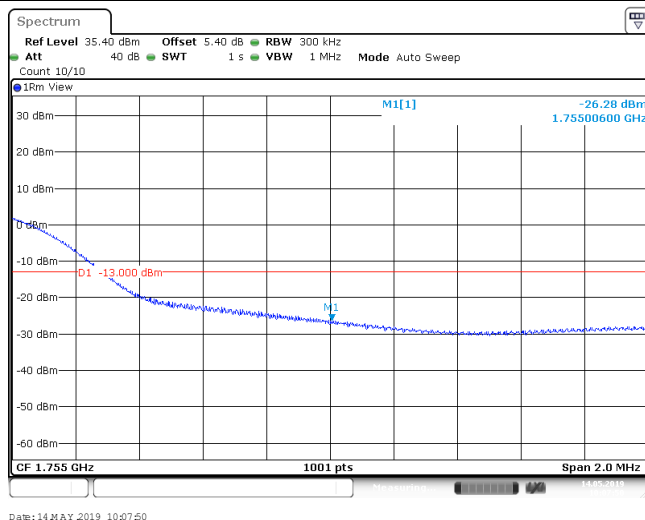


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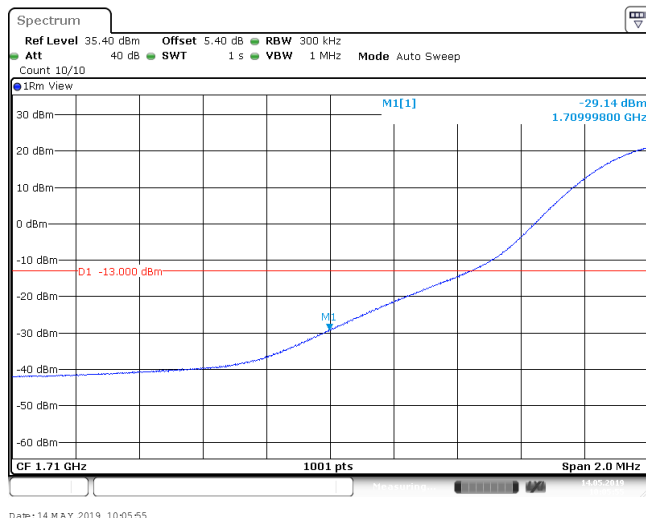


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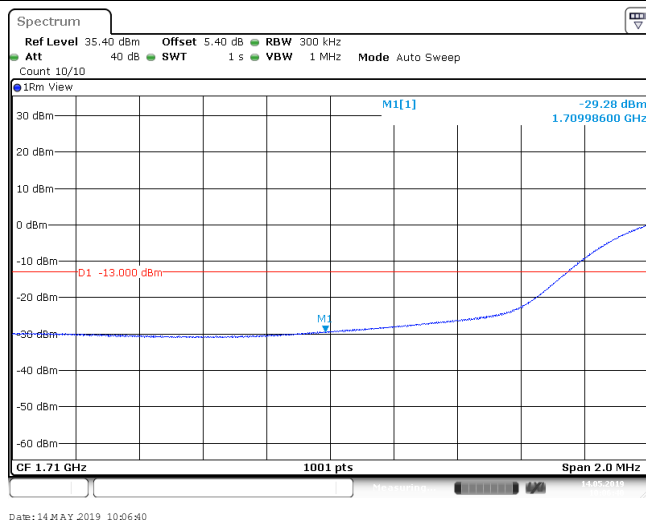


Band4_20MHz_16QAM_20050_1RB#0



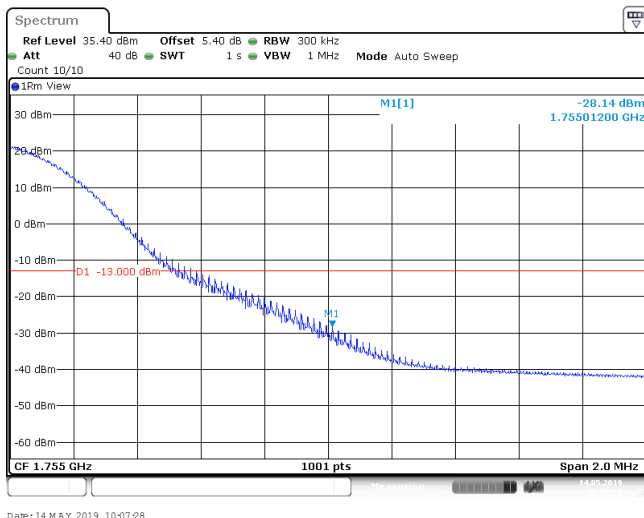


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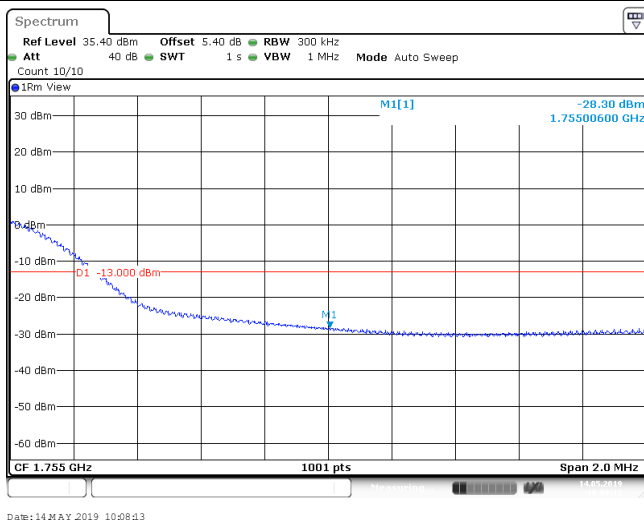


Band4_20MHz_16QAM_20300_1RB#99





Band4_20MHz_16QAM_20300_100RB#0



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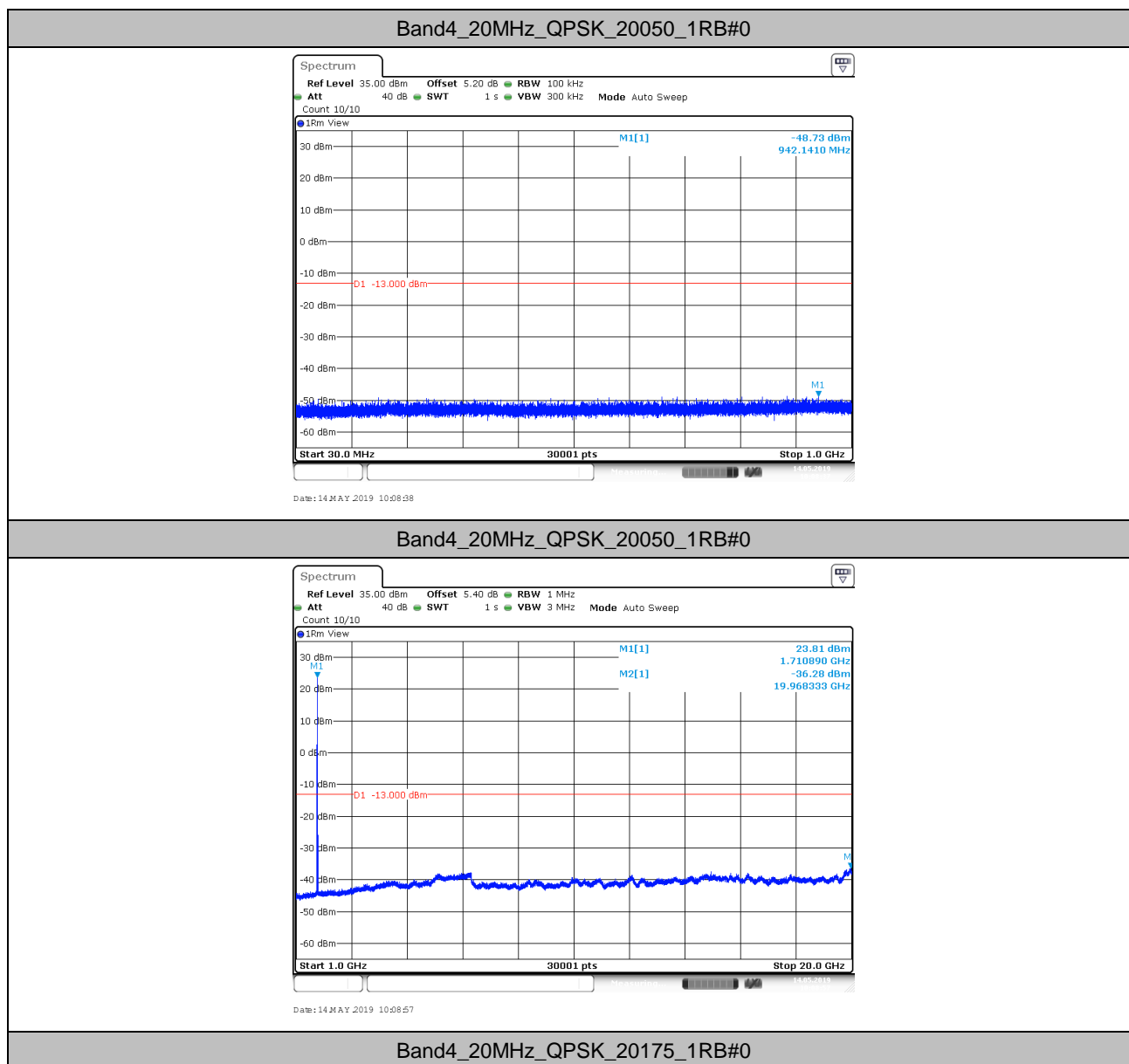


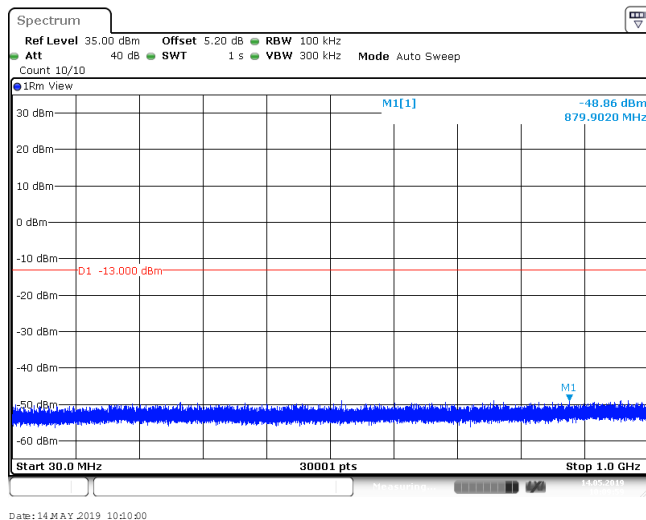
6. Spurious Emission at Antenna Terminal

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 = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

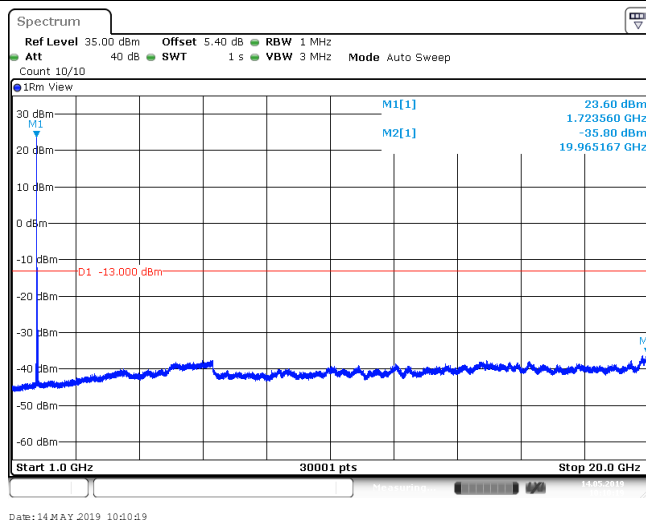
Remark2: only the worst case data displayed in this report.

6.1. Test Plots



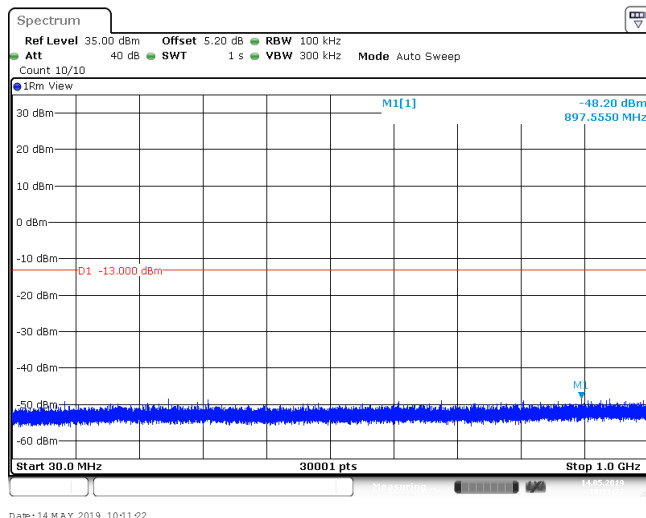


Band4_20MHz_QPSK_20175_1RB#0

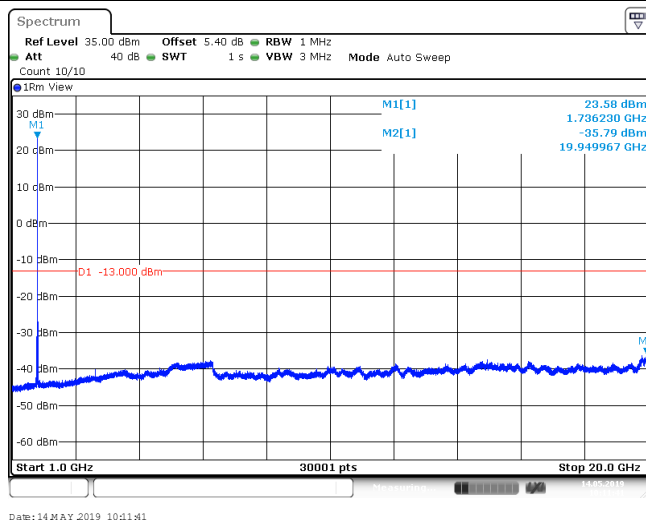


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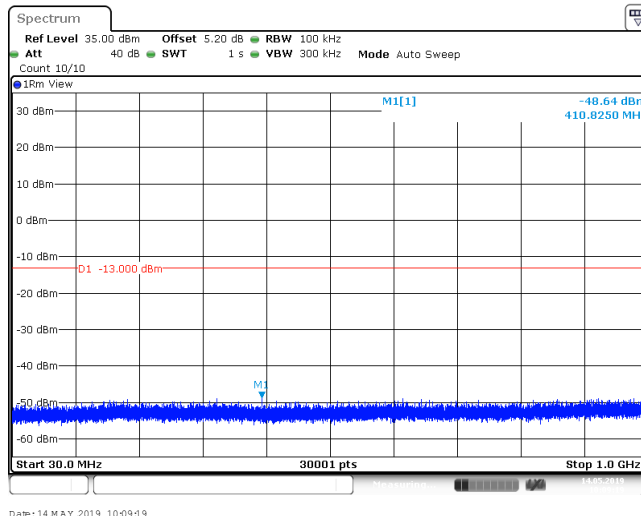


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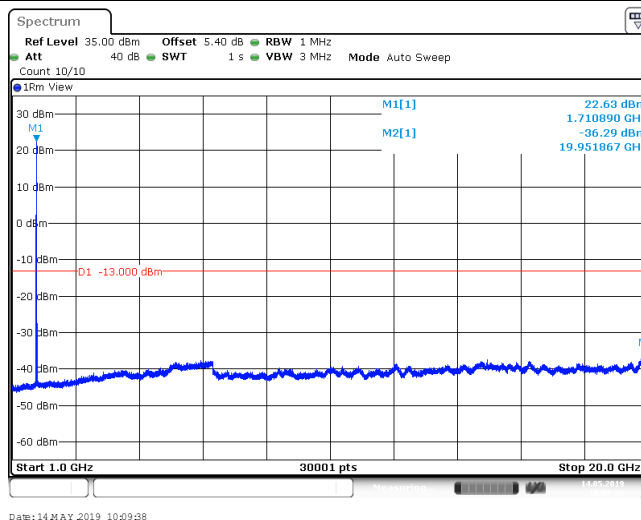


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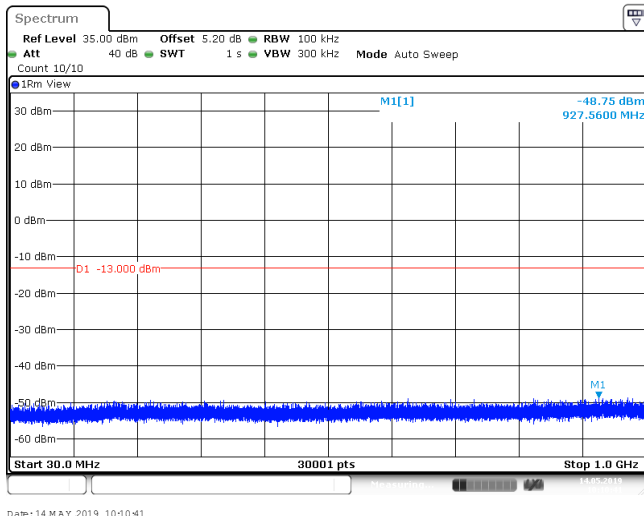


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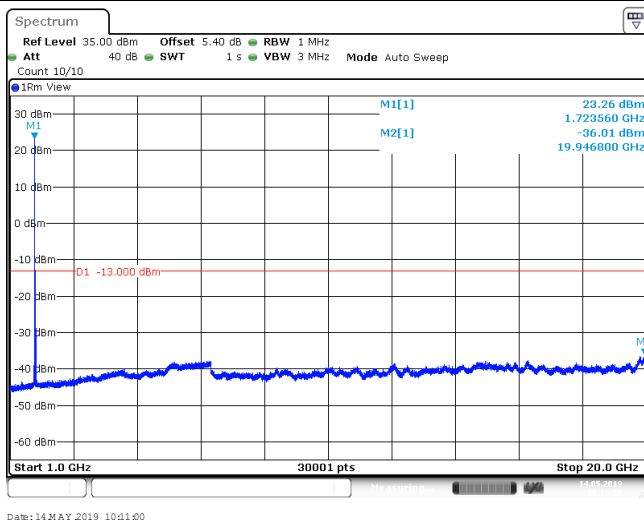


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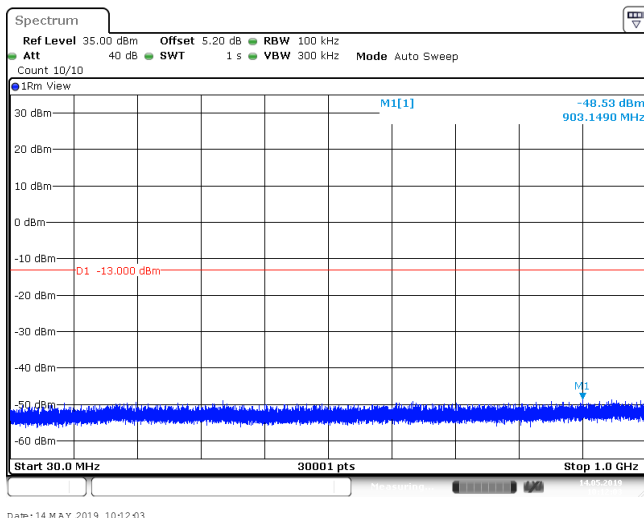
Band4_20MHz_16QAM_20175_1RB#0



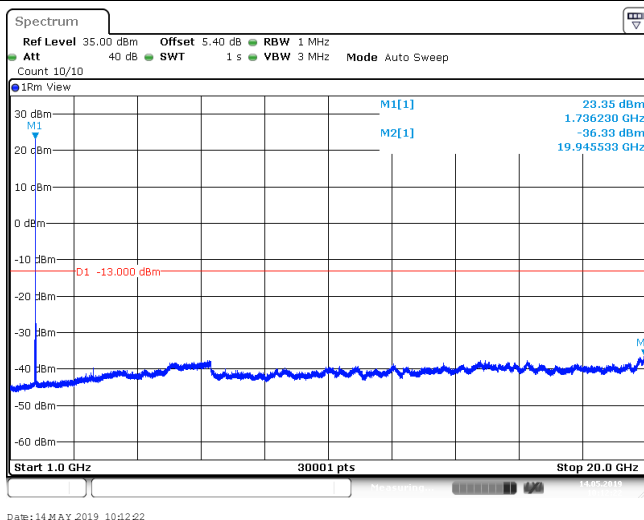
Band4_20MHz_16QAM_20300_1RB#0



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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE Band 4

7.1.1. Test Mode = LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 64.450000 | -81.89 | -13.00 | 68.89 | Vertical |
| 125.000000 | -86.81 | -13.00 | 73.81 | Vertical |
| 575.995833 | -76.97 | -13.00 | 63.97 | Vertical |
| 3422.175000 | -43.71 | -13.00 | 30.71 | Vertical |
| 5133.300000 | -61.48 | -13.00 | 48.48 | Vertical |
| 9249.100000 | -63.04 | -13.00 | 50.04 | Vertical |
| 56.550000 | -77.82 | -13.00 | 64.82 | Horizontal |
| 104.300000 | -88.36 | -13.00 | 75.36 | Horizontal |
| 575.995833 | -75.45 | -13.00 | 62.45 | Horizontal |
| 3422.175000 | -46.95 | -13.00 | 33.95 | Horizontal |
| 5132.975000 | -63.86 | -13.00 | 50.86 | Horizontal |
| 9246.500000 | -63.00 | -13.00 | 50.00 | Horizontal |

7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 64.200000 | -81.64 | -13.00 | 68.64 | Vertical |
| 125.000000 | -87.16 | -13.00 | 74.16 | Vertical |
| 575.995833 | -76.42 | -13.00 | 63.42 | Vertical |
| 3446.875000 | -42.82 | -13.00 | 29.82 | Vertical |
| 5170.675000 | -62.08 | -13.00 | 49.08 | Vertical |
| 8617.950000 | -63.02 | -13.00 | 50.02 | Vertical |
| 64.200000 | -81.64 | -13.00 | 68.64 | Horizontal |
| 125.000000 | -87.16 | -13.00 | 74.16 | Horizontal |
| 575.995833 | -76.42 | -13.00 | 63.42 | Horizontal |
| 3446.875000 | -42.82 | -13.00 | 29.82 | Horizontal |
| 5170.675000 | -62.08 | -13.00 | 49.08 | Horizontal |
| 8617.950000 | -63.02 | -13.00 | 50.02 | Horizontal |



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7.1.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 65.050000 | -81.71 | -13.00 | 68.71 | Vertical |
| 125.000000 | -86.21 | -13.00 | 73.21 | Vertical |
| 575.995833 | -76.91 | -13.00 | 63.91 | Vertical |
| 3471.900000 | -42.08 | -13.00 | 29.08 | Vertical |
| 5207.725000 | -65.55 | -13.00 | 52.55 | Vertical |
| 8680.350000 | -63.12 | -13.00 | 50.12 | Vertical |
| 62.350000 | -77.64 | -13.00 | 64.64 | Horizontal |
| 196.800000 | -79.46 | -13.00 | 66.46 | Horizontal |
| 575.995833 | -75.34 | -13.00 | 62.34 | Horizontal |
| 3471.900000 | -42.73 | -13.00 | 29.73 | Horizontal |
| 5208.050000 | -65.61 | -13.00 | 52.61 | Horizontal |
| 9158.425000 | -63.95 | -13.00 | 50.95 | 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.





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 |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | VL | NT | 1.60 | 0.000930 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | VN | NT | 1.30 | 0.000756 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | VH | NT | 3.00 | 0.001744 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | VL | NT | 0.00 | 0.000000 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | VN | NT | 0.50 | 0.000289 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | VH | NT | 0.30 | 0.000173 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | VL | NT | -2.40 | -0.001375 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | VN | NT | -1.40 | -0.000802 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | VH | NT | -2.70 | -0.001547 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | VL | NT | 2.00 | 0.001163 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | VN | NT | 2.10 | 0.001221 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | VH | NT | 2.10 | 0.001221 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | VL | NT | 0.40 | 0.000231 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | VN | NT | 0.50 | 0.000289 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | VH | NT | 0.70 | 0.000404 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | VL | NT | -5.20 | -0.002980 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | VN | NT | -3.70 | -0.002120 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | VH | NT | -2.40 | -0.001375 | ±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 |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | -30 | 0.90 | 0.000523 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | -20 | 1.20 | 0.000698 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 0 | 2.60 | 0.001512 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 10 | 2.80 | 0.001628 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 20 | 0.30 | 0.000174 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 30 | 1.30 | 0.000756 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 40 | 1.70 | 0.000988 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 50 | 1.40 | 0.000814 | ±2.5 | PASS |



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| | | | | | | | | | | |
|-------|-------|-------|-------|---------|----|-----|-------|-----------|------|------|
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | -30 | 1.20 | 0.000693 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | -20 | 2.20 | 0.001270 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 0 | 1.20 | 0.000693 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 10 | -0.20 | -0.000115 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 20 | -0.40 | -0.000231 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 30 | -0.20 | -0.000115 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 40 | 0.90 | 0.000519 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 50 | 1.20 | 0.000693 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | -30 | -1.80 | -0.001032 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | -20 | -2.80 | -0.001605 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 0 | -2.40 | -0.001375 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 10 | -1.00 | -0.000573 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 20 | -3.30 | -0.001891 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 30 | -2.60 | -0.001490 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 40 | -2.00 | -0.001146 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 50 | -1.10 | -0.000630 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | -30 | 1.80 | 0.001047 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | -20 | 1.20 | 0.000698 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 0 | 1.00 | 0.000581 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 10 | 2.90 | 0.001686 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 20 | 1.70 | 0.000988 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 30 | 1.40 | 0.000814 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 40 | 2.50 | 0.001453 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 50 | 2.10 | 0.001221 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | -30 | -0.90 | -0.000519 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | -20 | -0.50 | -0.000289 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 0 | -0.30 | -0.000173 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 10 | 1.10 | 0.000635 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 20 | 1.70 | 0.000981 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 30 | -0.20 | -0.000115 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 40 | 0.50 | 0.000289 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 50 | 1.80 | 0.001039 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | -30 | -3.20 | -0.001834 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | -20 | -3.20 | -0.001834 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 0 | -4.20 | -0.002407 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 10 | -4.30 | -0.002464 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 20 | -4.20 | -0.002407 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 30 | -3.40 | -0.001948 | ±2.5 | PASS |



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| | | | | | | | | | | |
|-------|-------|-------|-------|---------|----|----|-------|-----------|------|------|
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 40 | -4.00 | -0.002292 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 50 | -1.40 | -0.000802 | ±2.5 | PASS |

The End

