



# Appendix B

## E-UTRA Band 4



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Testing Center EEC Laboratory

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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



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## 1 Effective (Isotropic) Radiated Power

### 1.1. Test Result

| Band  | Bandwidth<br>h | Modulation | Channel | RB<br>Configuration | Conducted<br>Power(dBm) | EIRP<br>(dBm) | limit<br>(dBm) | Verdict |
|-------|----------------|------------|---------|---------------------|-------------------------|---------------|----------------|---------|
| Band4 | 1.4MHz         | QPSK       | 19957   | 1RB#2               | 23.25                   | 22.75         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 19957   | 1RB#5               | 23.28                   | 22.78         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 19957   | 1RB#0               | 23.29                   | 22.79         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 19957   | 3RB#3               | 23.30                   | 22.8          | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 19957   | 3RB#0               | 23.26                   | 22.76         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 19957   | 3RB#1               | 23.27                   | 22.77         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 19957   | 6RB#0               | 22.40                   | 21.9          | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 20175   | 1RB#5               | 23.20                   | 22.7          | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 20175   | 1RB#2               | 23.29                   | 22.79         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 20175   | 1RB#0               | 23.23                   | 22.73         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 20175   | 3RB#1               | 23.28                   | 22.78         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 20175   | 3RB#3               | 23.32                   | 22.82         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 20175   | 3RB#0               | 23.31                   | 22.81         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 20175   | 6RB#0               | 22.26                   | 21.76         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 20393   | 1RB#5               | 23.25                   | 22.75         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 20393   | 1RB#2               | <b>23.50</b>            | 23            | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 20393   | 1RB#0               | 23.22                   | 22.72         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 20393   | 3RB#1               | 23.47                   | 22.97         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 20393   | 3RB#3               | 23.43                   | 22.93         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 20393   | 3RB#0               | 23.47                   | 22.97         | 30.00          | PASS    |
| Band4 | 1.4MHz         | QPSK       | 20393   | 6RB#0               | 22.36                   | 21.86         | 30.00          | PASS    |
| Band4 | 1.4MHz         | 16QAM      | 19957   | 1RB#5               | 22.41                   | 21.91         | 30.00          | PASS    |
| Band4 | 1.4MHz         | 16QAM      | 19957   | 1RB#2               | 22.37                   | 21.87         | 30.00          | PASS    |
| Band4 | 1.4MHz         | 16QAM      | 19957   | 1RB#0               | 22.33                   | 21.83         | 30.00          | PASS    |
| Band4 | 1.4MHz         | 16QAM      | 19957   | 3RB#0               | 22.36                   | 21.86         | 30.00          | PASS    |
| Band4 | 1.4MHz         | 16QAM      | 19957   | 3RB#1               | 22.28                   | 21.78         | 30.00          | PASS    |
| Band4 | 1.4MHz         | 16QAM      | 19957   | 3RB#3               | 22.35                   | 21.85         | 30.00          | PASS    |



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|       |        |       |       |        |       |       |       |      |
|-------|--------|-------|-------|--------|-------|-------|-------|------|
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0  | 21.33 | 20.83 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#5  | 22.62 | 22.12 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#0  | 22.87 | 22.37 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#2  | 22.33 | 21.83 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 3RB#0  | 22.43 | 21.93 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 3RB#1  | 22.30 | 21.8  | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 3RB#3  | 22.28 | 21.78 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0  | 21.23 | 20.73 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#0  | 22.65 | 22.15 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#5  | 22.65 | 22.15 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#2  | 22.61 | 22.11 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#0  | 22.25 | 21.75 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#1  | 22.43 | 21.93 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#3  | 22.40 | 21.9  | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0  | 21.36 | 20.86 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#8  | 22.32 | 21.82 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#0  | 22.24 | 21.74 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#14 | 22.28 | 21.78 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 8RB#7  | 22.56 | 22.06 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 8RB#0  | 22.42 | 21.92 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 8RB#4  | 22.42 | 21.92 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0 | 21.50 | 21    | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#8  | 22.27 | 21.77 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#14 | 22.33 | 21.83 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#0  | 22.26 | 21.76 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 8RB#4  | 22.74 | 22.24 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 8RB#7  | 22.25 | 21.75 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 8RB#0  | 22.32 | 21.82 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0 | 21.49 | 20.99 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#8  | 22.42 | 21.92 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#0  | 22.39 | 21.89 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#14 | 22.47 | 21.97 | 30.00 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 8RB#7  | 22.37 | 21.87 | 30.00 | PASS |



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|       |      |       |       |         |       |       |       |      |
|-------|------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 3MHz | QPSK  | 20385 | 8RB#4   | 22.77 | 22.27 | 30.00 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 8RB#0   | 22.28 | 21.78 | 30.00 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 15RB#0  | 21.43 | 20.93 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#0   | 21.40 | 20.9  | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#8   | 21.35 | 20.85 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#14  | 21.37 | 20.87 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 8RB#7   | 21.31 | 20.81 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 8RB#0   | 21.35 | 20.85 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 8RB#4   | 21.32 | 20.82 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0  | 21.29 | 20.79 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#14  | 21.45 | 20.95 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#8   | 21.49 | 20.99 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#0   | 21.20 | 20.7  | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 8RB#4   | 21.41 | 20.91 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 8RB#0   | 21.54 | 21.04 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 8RB#7   | 21.29 | 20.79 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0  | 21.43 | 20.93 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#0   | 21.54 | 21.04 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#8   | 21.28 | 20.78 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#14  | 21.39 | 20.89 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#0   | 21.30 | 20.8  | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#4   | 21.52 | 21.02 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#7   | 21.44 | 20.94 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0  | 21.45 | 20.95 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#12  | 23.21 | 22.71 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#0   | 23.39 | 22.89 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#24  | 23.07 | 22.57 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 12RB#13 | 22.34 | 21.84 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 12RB#6  | 22.30 | 21.8  | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 12RB#0  | 22.35 | 21.85 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0  | 22.37 | 21.87 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#0   | 23.24 | 22.74 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#24  | 23.23 | 22.73 | 30.00 | PASS |



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|       |      |       |       |         |       |       |       |      |
|-------|------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 5MHz | QPSK  | 20175 | 1RB#12  | 23.28 | 22.78 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 12RB#0  | 22.36 | 21.86 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 12RB#13 | 22.31 | 21.81 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 12RB#6  | 22.34 | 21.84 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0  | 22.36 | 21.86 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#24  | 23.36 | 22.86 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#0   | 23.38 | 22.88 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#12  | 23.28 | 22.78 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 12RB#0  | 22.29 | 21.79 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 12RB#6  | 22.39 | 21.89 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 12RB#13 | 22.33 | 21.83 | 30.00 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 25RB#0  | 22.38 | 21.88 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#24  | 22.35 | 21.85 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#12  | 22.73 | 22.23 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#0   | 22.33 | 21.83 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#0  | 21.19 | 20.69 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#6  | 21.27 | 20.77 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#13 | 21.37 | 20.87 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0  | 21.29 | 20.79 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#24  | 22.81 | 22.31 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#12  | 22.26 | 21.76 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#0   | 22.36 | 21.86 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 12RB#6  | 21.38 | 20.88 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 12RB#0  | 21.36 | 20.86 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 12RB#13 | 21.34 | 20.84 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0  | 21.32 | 20.82 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#24  | 22.71 | 22.21 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#0   | 22.54 | 22.04 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#12  | 22.36 | 21.86 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 12RB#0  | 21.30 | 20.8  | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 12RB#6  | 21.52 | 21.02 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 12RB#13 | 21.44 | 20.94 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 25RB#0  | 21.45 | 20.95 | 30.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 10MHz | QPSK  | 20000 | 1RB#0   | 23.32 | 22.82 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#24  | 23.27 | 22.77 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#49  | 23.19 | 22.69 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 25RB#0  | 22.37 | 21.87 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 25RB#12 | 22.29 | 21.79 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 25RB#25 | 22.29 | 21.79 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0  | 22.29 | 21.79 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#0   | 22.39 | 21.89 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#24  | 22.40 | 21.9  | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#49  | 22.33 | 21.83 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 25RB#12 | 22.24 | 21.74 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 25RB#25 | 22.78 | 22.28 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 25RB#0  | 22.48 | 21.98 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0  | 21.40 | 20.9  | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#0   | 22.42 | 21.92 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#24  | 22.49 | 21.99 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#49  | 22.53 | 22.03 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 25RB#0  | 22.55 | 22.05 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 25RB#12 | 22.89 | 22.39 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 25RB#25 | 22.55 | 22.05 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0  | 21.52 | 21.02 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#49  | 22.47 | 21.97 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#0   | 22.81 | 22.31 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#24  | 21.45 | 20.95 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#25 | 21.36 | 20.86 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#0  | 21.36 | 20.86 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#12 | 21.24 | 20.74 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0  | 21.40 | 20.9  | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#0   | 21.42 | 20.92 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#24  | 21.46 | 20.96 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#49  | 21.36 | 20.86 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#0  | 21.39 | 20.89 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#12 | 21.41 | 20.91 | 30.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 10MHz | 16QAM | 20175 | 25RB#25 | 21.20 | 20.7  | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0  | 21.44 | 20.94 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#24  | 21.51 | 21.01 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#49  | 21.39 | 20.89 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#0   | 21.57 | 21.07 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#0  | 21.36 | 20.86 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#12 | 20.92 | 20.42 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#25 | 21.40 | 20.9  | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0  | 21.35 | 20.85 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#0   | 23.19 | 22.69 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#38  | 23.27 | 22.77 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#74  | 23.18 | 22.68 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 36RB#39 | 22.39 | 21.89 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 36RB#18 | 22.33 | 21.83 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 36RB#0  | 22.38 | 21.88 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0  | 22.29 | 21.79 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#74  | 23.21 | 22.71 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#0   | 23.28 | 22.78 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#38  | 23.14 | 22.64 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 36RB#0  | 22.38 | 21.88 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 36RB#39 | 22.42 | 21.92 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 36RB#18 | 22.36 | 21.86 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 75RB#0  | 22.32 | 21.82 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#38  | 23.26 | 22.76 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#0   | 22.85 | 22.35 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#74  | 23.17 | 22.67 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 36RB#39 | 22.39 | 21.89 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 36RB#0  | 22.37 | 21.87 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 36RB#18 | 22.46 | 21.96 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 75RB#0  | 22.46 | 21.96 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#0   | 22.12 | 21.62 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#38  | 22.66 | 22.16 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#74  | 22.44 | 21.94 | 30.00 | PASS |



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|       |       |       |       |         |              |       |       |      |
|-------|-------|-------|-------|---------|--------------|-------|-------|------|
| Band4 | 15MHz | 16QAM | 20025 | 36RB#0  | 21.34        | 20.84 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 36RB#18 | 21.36        | 20.86 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 36RB#39 | 21.36        | 20.86 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0  | 21.36        | 20.86 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#38  | 22.18        | 21.68 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#74  | 22.56        | 22.06 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#0   | 22.67        | 22.17 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 36RB#0  | 21.28        | 20.78 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 36RB#18 | 21.29        | 20.79 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 36RB#39 | 21.31        | 20.81 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0  | 21.40        | 20.9  | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#0   | 22.42        | 21.92 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#38  | 21.76        | 21.26 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#74  | 22.26        | 21.76 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 36RB#39 | 21.36        | 20.86 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 36RB#0  | 20.92        | 20.42 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 36RB#18 | 21.40        | 20.9  | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0  | 21.35        | 20.85 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#49  | 23.15        | 22.65 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#99  | 23.30        | 22.8  | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#0   | 23.04        | 22.54 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 50RB#0  | 22.30        | 21.8  | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 50RB#25 | 22.42        | 21.92 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 50RB#50 | 22.30        | 21.8  | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | 22.33        | 21.83 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#99  | 22.98        | 22.48 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#49  | <b>23.45</b> | 22.95 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#0   | 22.94        | 22.44 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 50RB#25 | 22.31        | 21.81 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 50RB#0  | 22.34        | 21.84 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 50RB#50 | 22.29        | 21.79 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 22.35        | 21.85 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#49  | 23.15        | 22.65 | 30.00 | PASS |



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|       |       |       |       |         |              |       |       |      |
|-------|-------|-------|-------|---------|--------------|-------|-------|------|
| Band4 | 20MHz | QPSK  | 20300 | 1RB#0   | 23.31        | 22.81 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#99  | 23.09        | 22.59 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 50RB#25 | 22.41        | 21.91 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 50RB#50 | <b>22.47</b> | 21.97 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 50RB#0  | 22.45        | 21.95 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 22.41        | 21.91 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#99  | 22.27        | 21.77 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#0   | 22.88        | 22.38 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#49  | 22.44        | 21.94 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#0  | 21.44        | 20.94 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#25 | 21.32        | 20.82 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#50 | 21.38        | 20.88 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 21.26        | 20.76 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#99  | 22.40        | 21.9  | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#49  | 22.38        | 21.88 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#0   | 22.53        | 22.03 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#25 | 21.31        | 20.81 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#0  | 21.42        | 20.92 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#50 | 21.43        | 20.93 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 21.28        | 20.78 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#99  | 22.21        | 21.71 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#49  | 22.86        | 22.36 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#0   | 21.97        | 21.47 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#50 | 21.45        | 20.95 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#25 | 21.30        | 20.8  | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#0  | 21.39        | 20.89 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 21.39        | 20.89 | 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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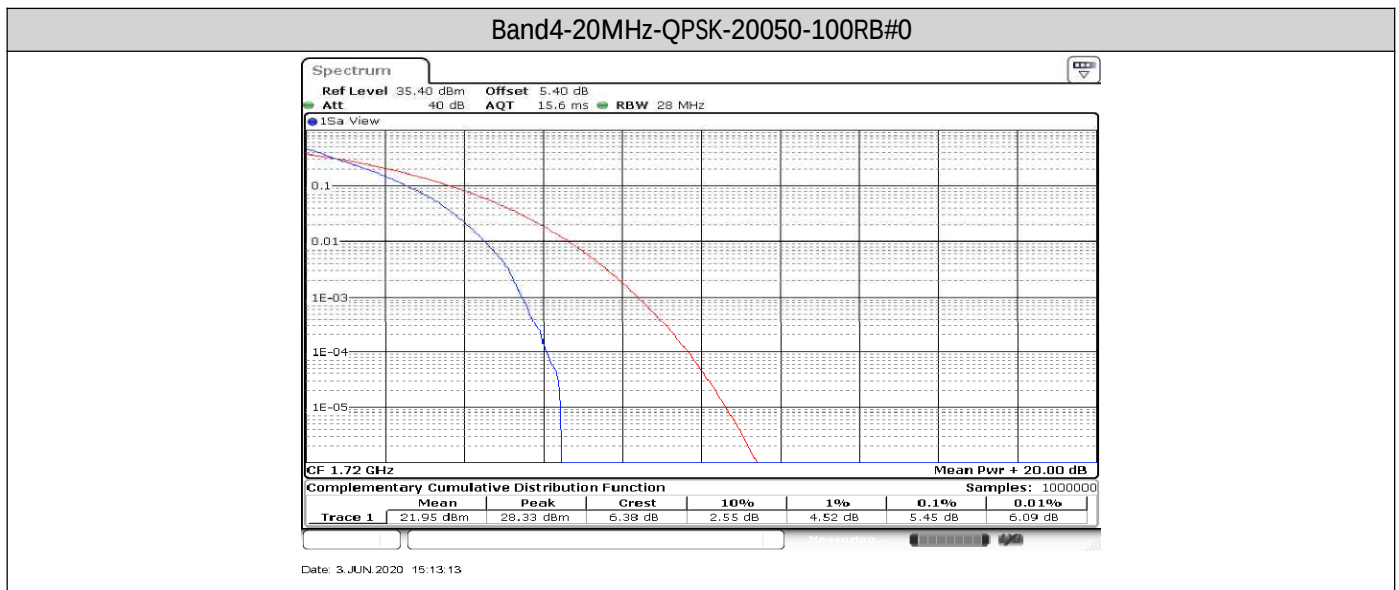


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

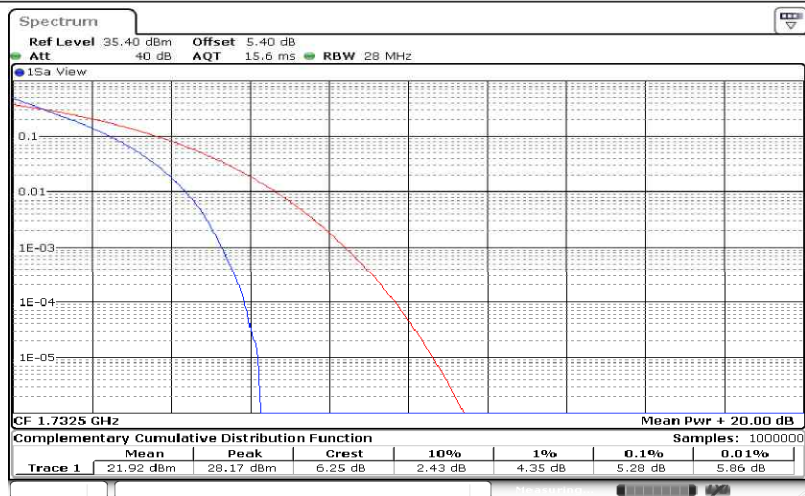
| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0          | 5.45       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0          | 5.28       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0          | 5.25       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0          | 6.23       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 100RB#0          | 6.06       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 100RB#0          | 6.06       | 13        | PASS    |

### 2.2. Test Plots



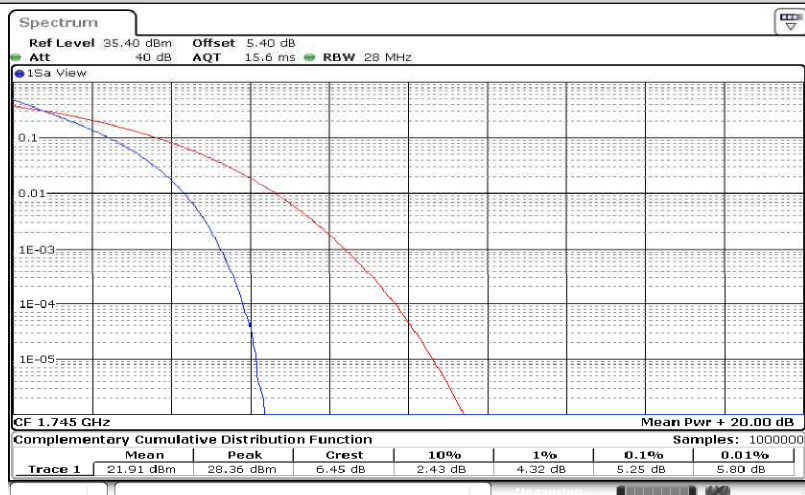


Band4-20MHz-QPSK-20175-100RB#0



Date: 3 JUN 2020 15:13:36

Band4-20MHz-QPSK-20300-100RB#0



Date: 3 JUN 2020 15:13:58



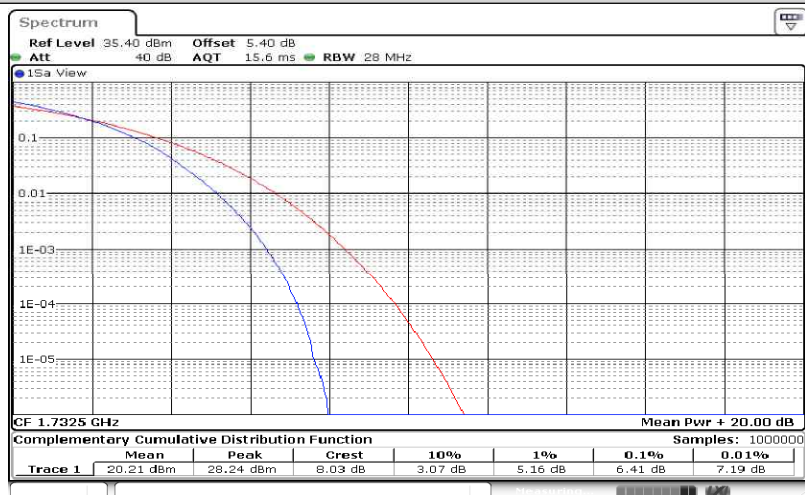


Band4-20MHz-64QAM-20050-100RB#0



Date: 4 JUN 2020 15:38:26

Band4-20MHz-64QAM-20175-100RB#0



Date: 4 JUN 2020 15:38:37



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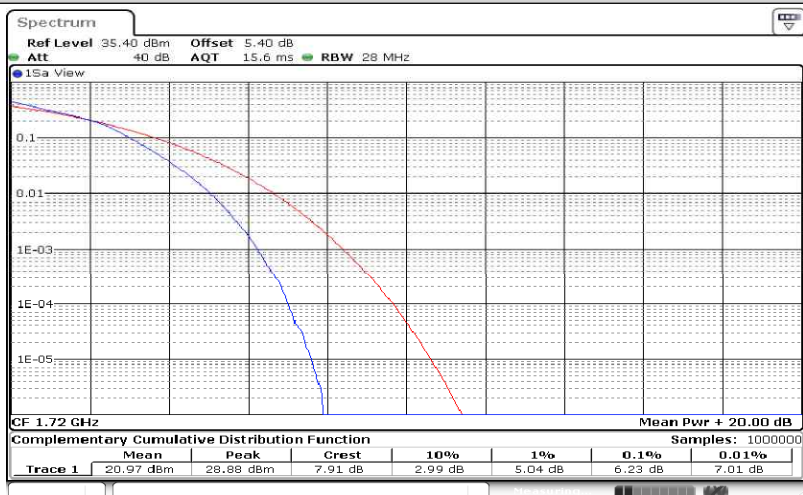


Band4-20MHz-64QAM-20300-100RB#0



Date: 4 JUN 2020 15:38:48

Band4-20MHz-16QAM-20050-100RB#0



Date: 3 JUN 2020 15:13:24

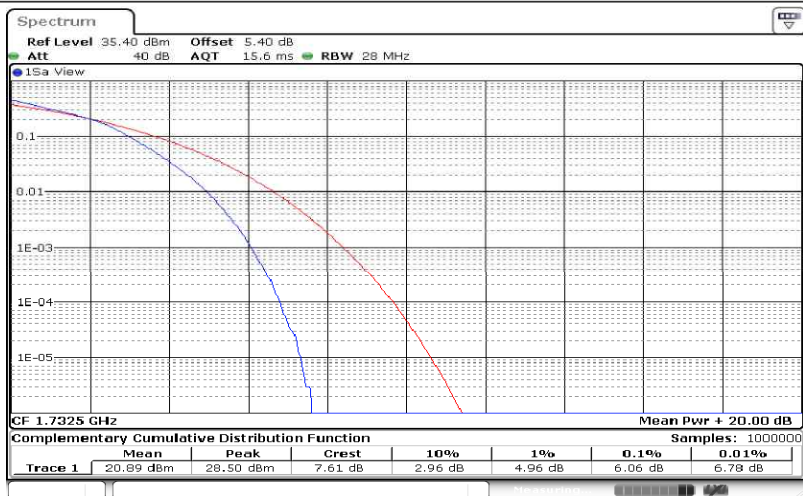


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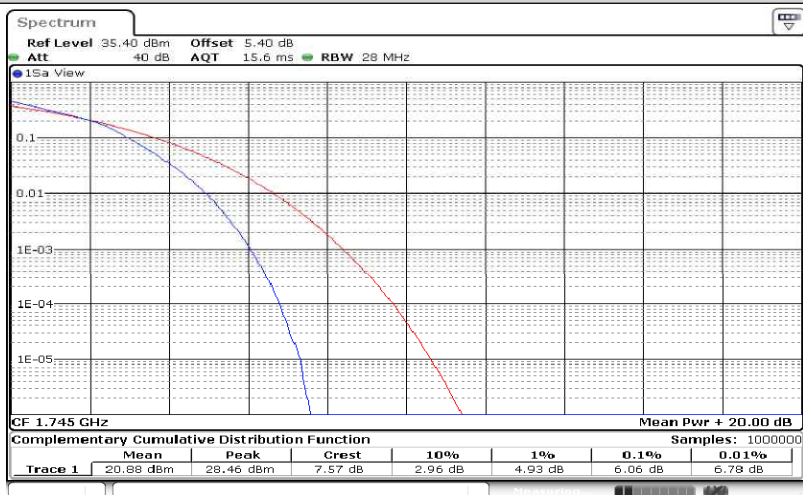


Band4-20MHz-16QAM-20175-100RB#0



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Band4-20MHz-16QAM-20300-100RB#0



Date: 3 JUN 2020 15:14:10



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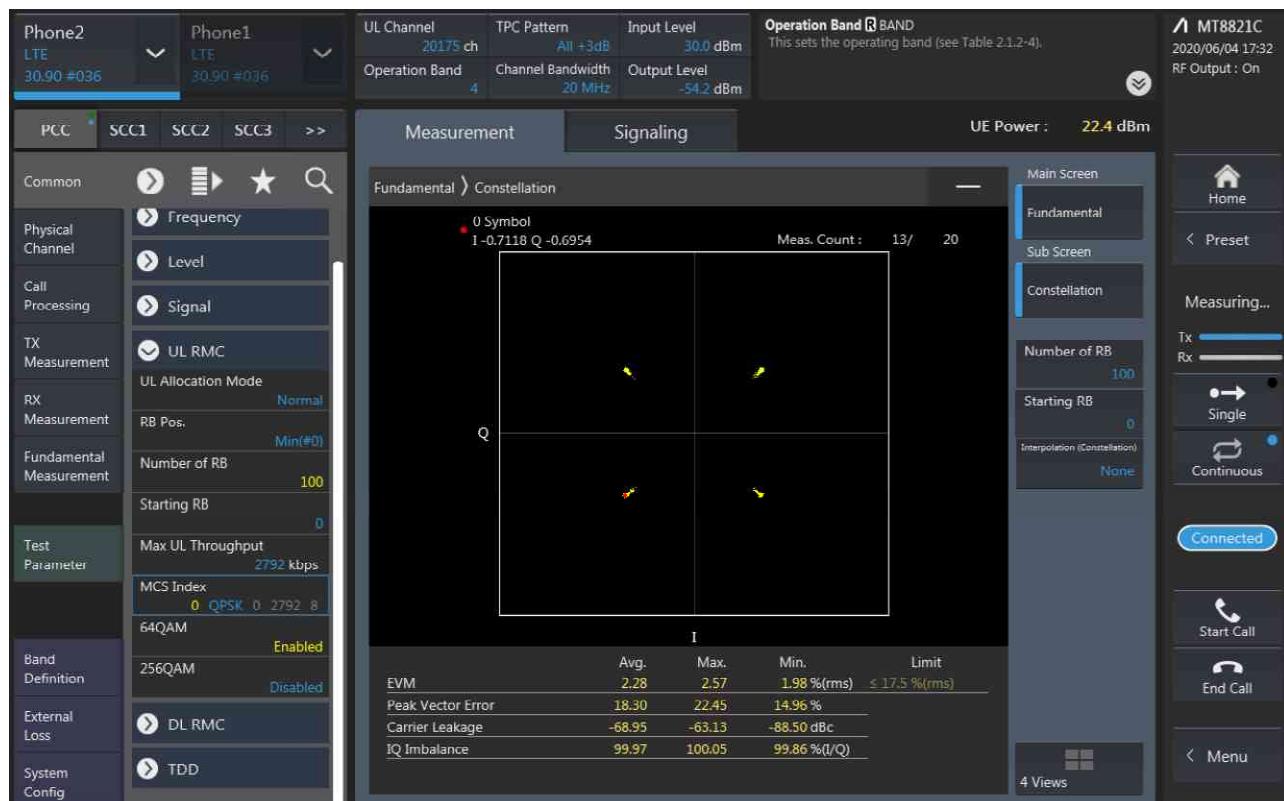
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### 3. Modulation Characteristics

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

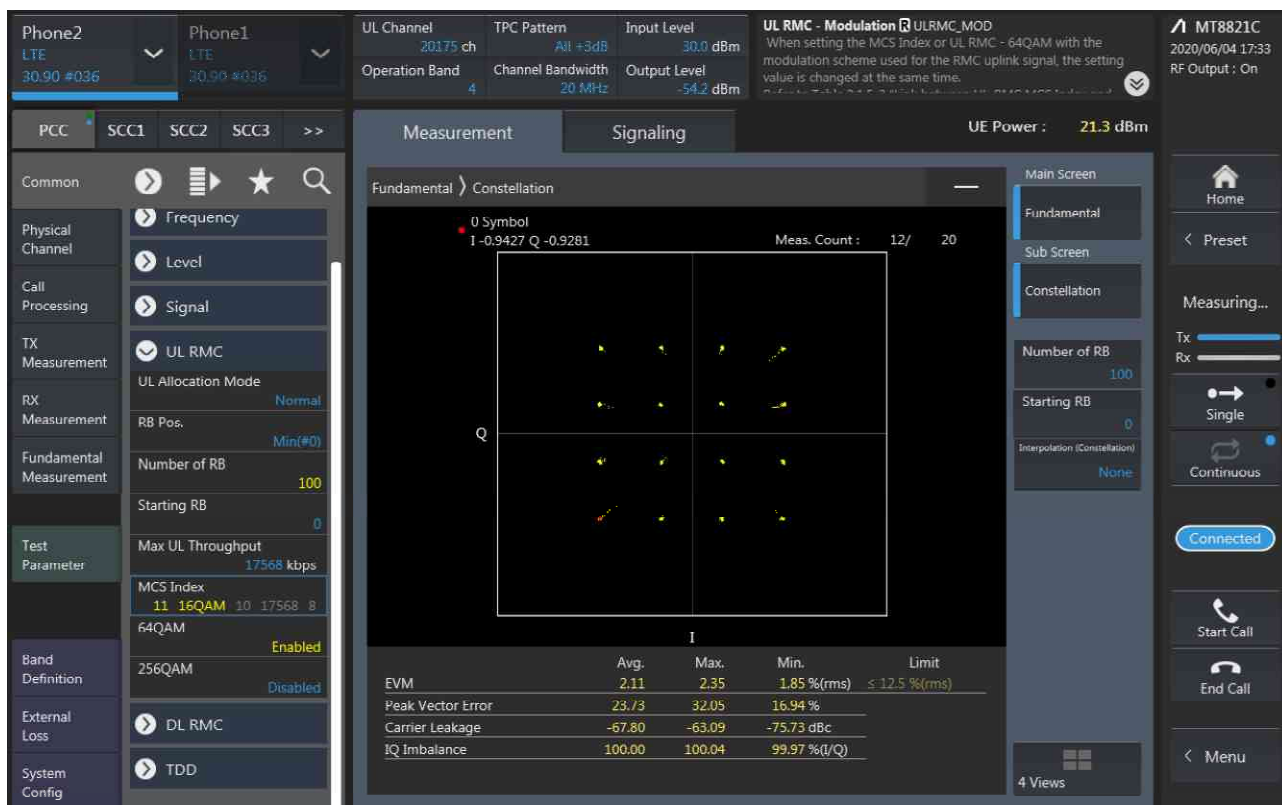
##### 3.1.1. Test Channel = MCH





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

### 3.2.1. 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            | 1.088                    | 1.281                | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 1.085                    | 1.284                | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 1.088                    | 1.287                | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 1.088                    | 1.281                | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 1.091                    | 1.272                | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 1.091                    | 1.296                | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | 2.691                    | 2.904                | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 15RB#0           | 2.691                    | 2.922                | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | 2.685                    | 2.904                | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | 2.673                    | 2.892                | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 15RB#0           | 2.673                    | 2.910                | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | 2.673                    | 2.910                | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | 4.476                    | 4.830                | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 25RB#0           | 4.456                    | 4.690                | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | 4.476                    | 4.880                | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | 4.486                    | 4.860                | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 25RB#0           | 4.486                    | 4.840                | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | 4.486                    | 4.860                | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | 8.971                    | 9.400                | PASS    |
| Band4 | 10MHz     | QPSK       | 20175   | 50RB#0           | 8.931                    | 9.620                | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | 8.951                    | 9.620                | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 50RB#0           | 8.931                    | 9.660                | PASS    |
| Band4 | 10MHz     | 16QAM      | 20175   | 50RB#0           | 8.931                    | 9.640                | PASS    |
| Band4 | 10MHz     | 16QAM      | 20350   | 50RB#0           | 8.951                    | 9.640                | PASS    |
| Band4 | 15MHz     | QPSK       | 20025   | 75RB#0           | 13.576                   | 14.430               | PASS    |
| Band4 | 15MHz     | QPSK       | 20175   | 75RB#0           | 13.487                   | 14.670               | PASS    |
| Band4 | 15MHz     | QPSK       | 20325   | 75RB#0           | 13.576                   | 14.370               | PASS    |
| Band4 | 15MHz     | 16QAM      | 20025   | 75RB#0           | 13.487                   | 14.610               | PASS    |
| Band4 | 15MHz     | 16QAM      | 20175   | 75RB#0           | 13.457                   | 14.640               | PASS    |
| Band4 | 15MHz     | 16QAM      | 20325   | 75RB#0           | 13.457                   | 14.640               | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0          | 17.902                   | 19.320               | PASS    |



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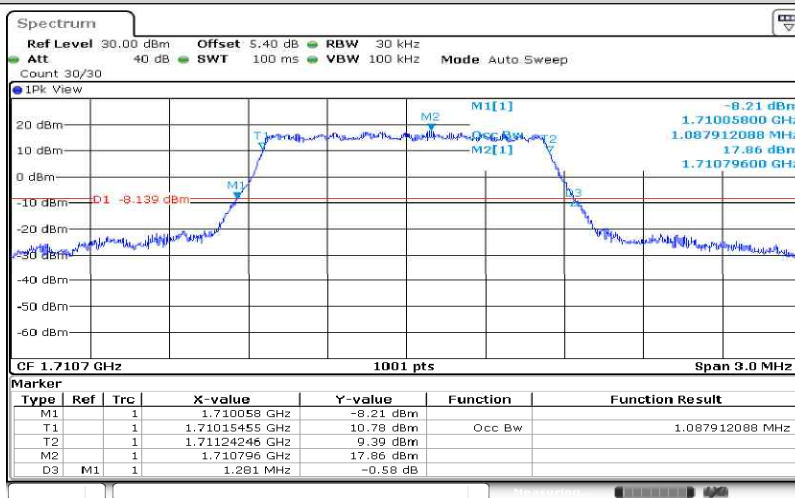
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|       |       |       |       |         |        |        |      |
|-------|-------|-------|-------|---------|--------|--------|------|
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 17.862 | 19.200 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 18.062 | 19.080 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 17.902 | 19.320 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 17.902 | 19.360 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 17.862 | 19.280 | PASS |

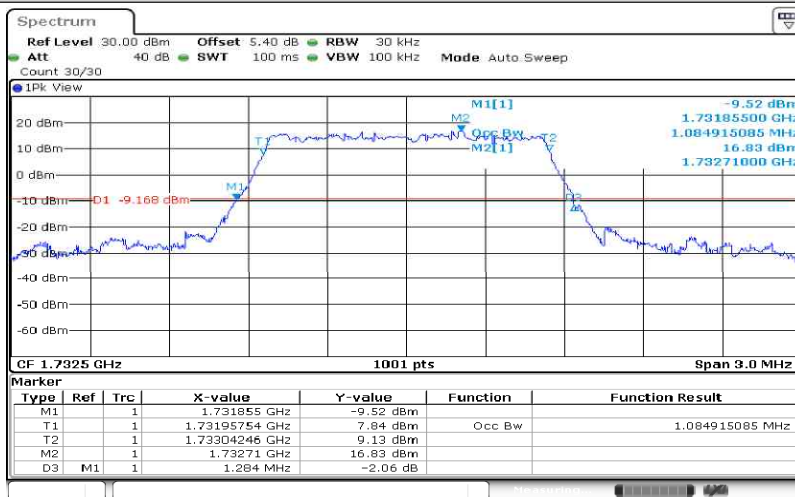
## 4.2. Test Plots

Band4-1.4MHz-QPSK-19957-6RB#0-1.088



Date: 3 JUN 2020 14:43:09

Band4-1.4MHz-QPSK-20175-6RB#0-1.085



Date: 3 JUN 2020 14:43:35

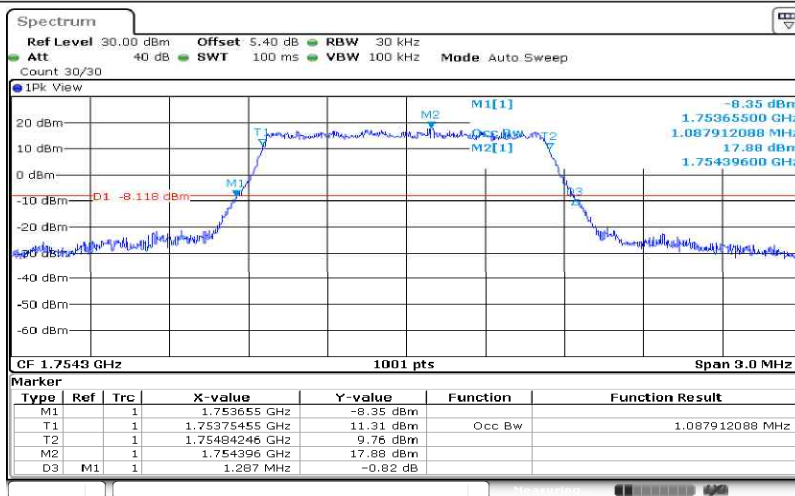


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Band4-1.4MHz-QPSK-20393-6RB#0-1.088



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Band4-1.4MHz-16QAM-19957-6RB#0-1.088



Date: 3 JUN 2020 14:43:22



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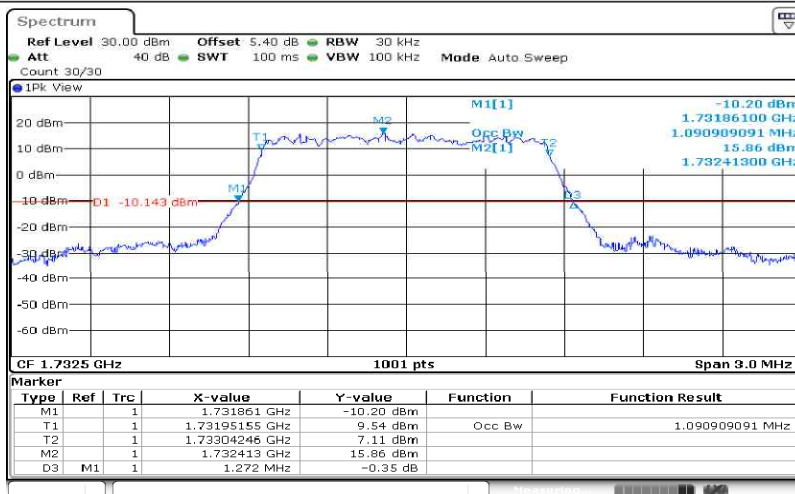
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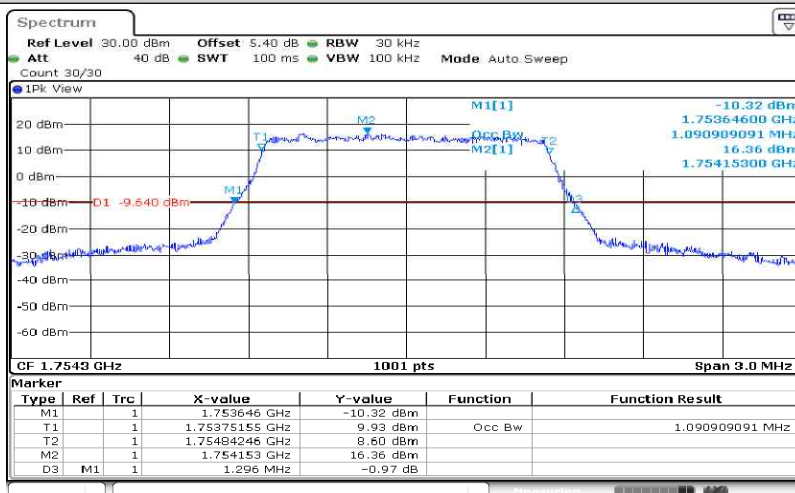


Band4-1.4MHz-16QAM-20175-6RB#0-1.091



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Band4-1.4MHz-16QAM-20393-6RB#0-1.091



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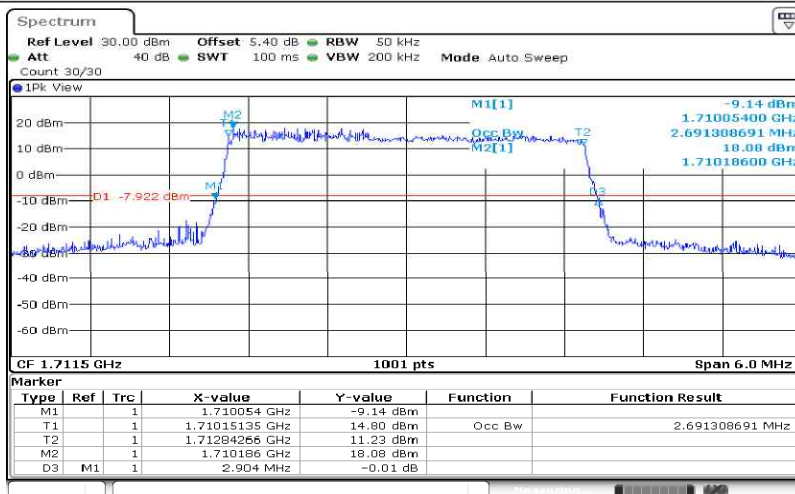
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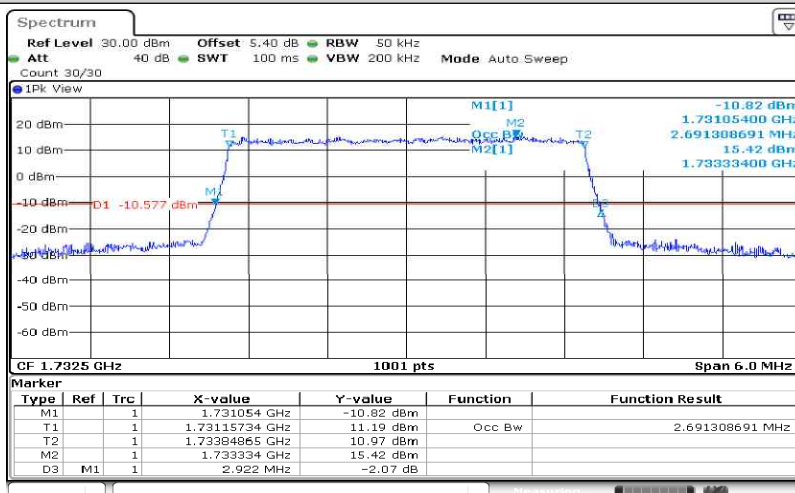


Band4-3MHz-QPSK-19965-15RB#0-2.691



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Band4-3MHz-QPSK-20175-15RB#0-2.691



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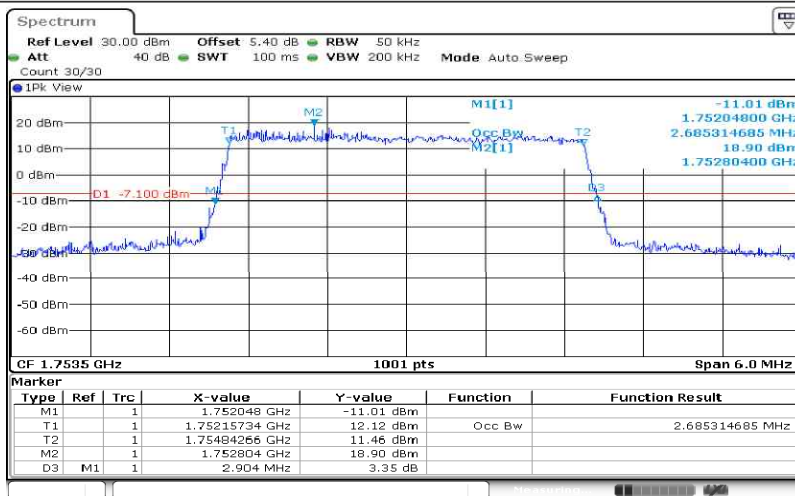
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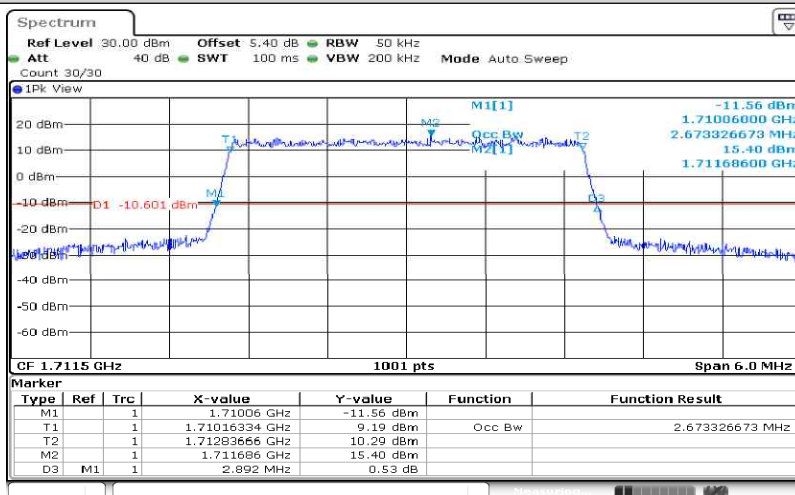


Band4-3MHz-QPSK-20385-15RB#0-2.685



Date: 3 JUN 2020 14:45:24

Band4-3MHz-16QAM-19965-15RB#0-2.673



Date: 3 JUN 2020 14:44:46



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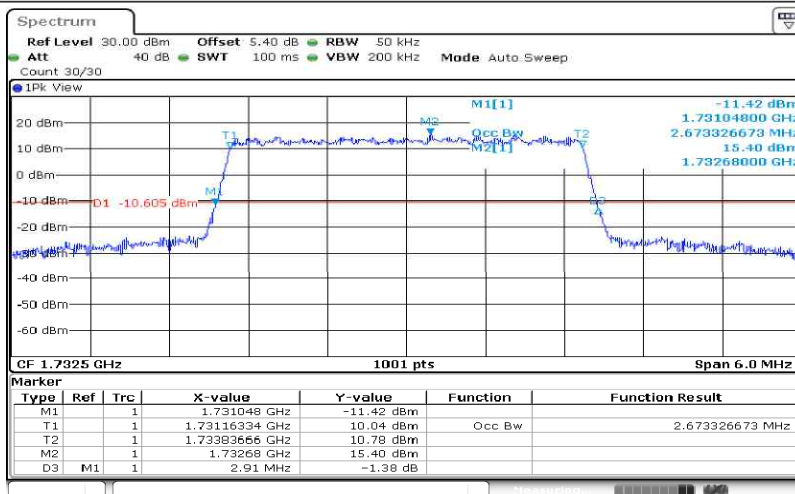
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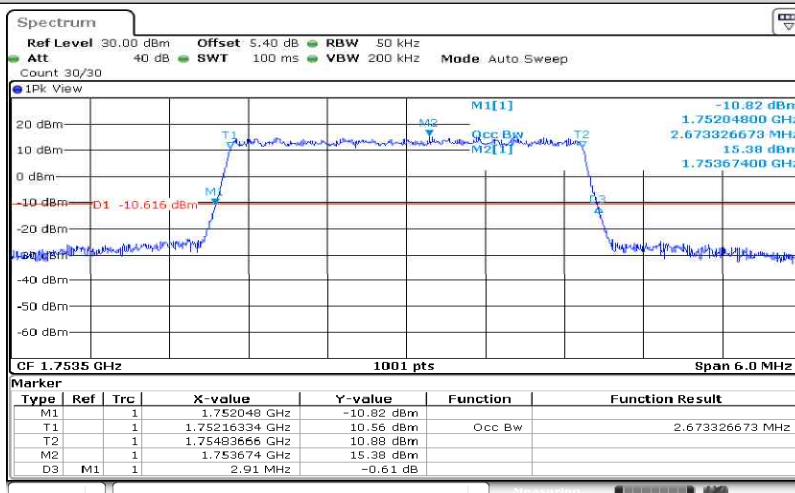


Band4-3MHz-16QAM-20175-15RB#0-2.673



Date: 3 JUN 2020 14:45:11

Band4-3MHz-16QAM-20385-15RB#0-2.673



Date: 3 JUN 2020 14:45:37



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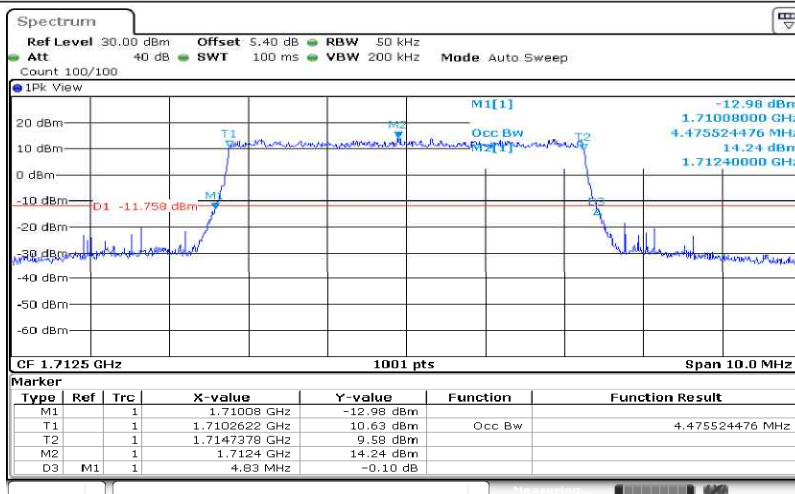
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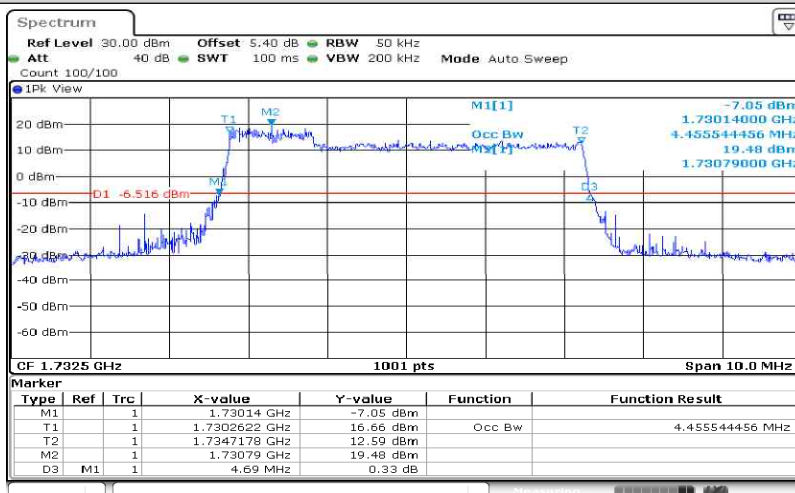


Band4-5MHz-QPSK-19975-25RB#0-4.476



Date: 3 JUN 2020 14:46:02

Band4-5MHz-QPSK-20175-25RB#0-4.456



Date: 3 JUN 2020 14:46:42



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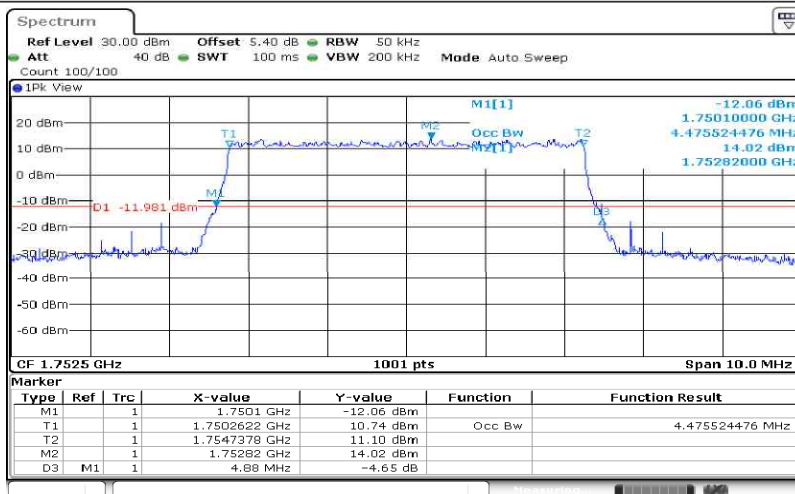
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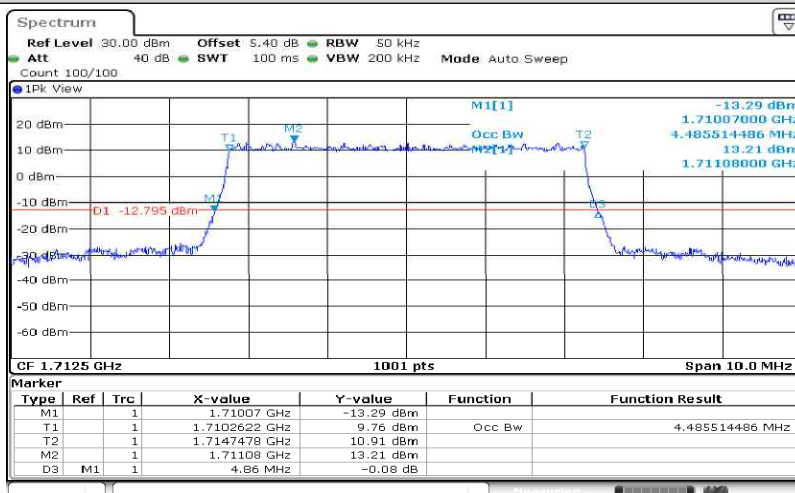


Band4-5MHz-QPSK-20375-25RB#0-4.476



Date: 3 JUN 2020 14:47:22

Band4-5MHz-16QAM-19975-25RB#0-4.486



Date: 3 JUN 2020 14:46:22



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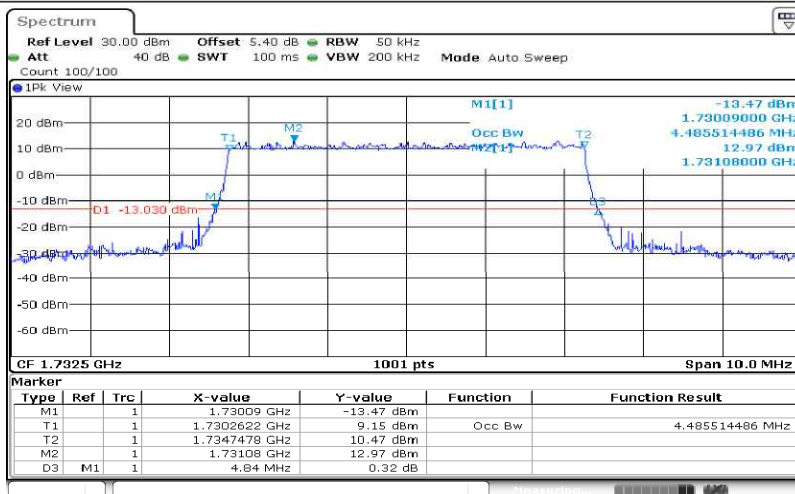
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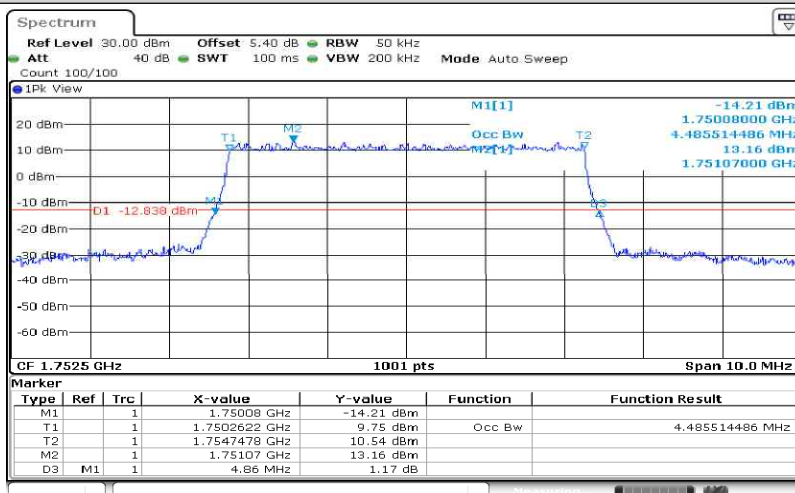


Band4-5MHz-16QAM-20175-25RB#0-4.486



Date: 3 JUN 2020 14:47:02

Band4-5MHz-16QAM-20375-25RB#0-4.486



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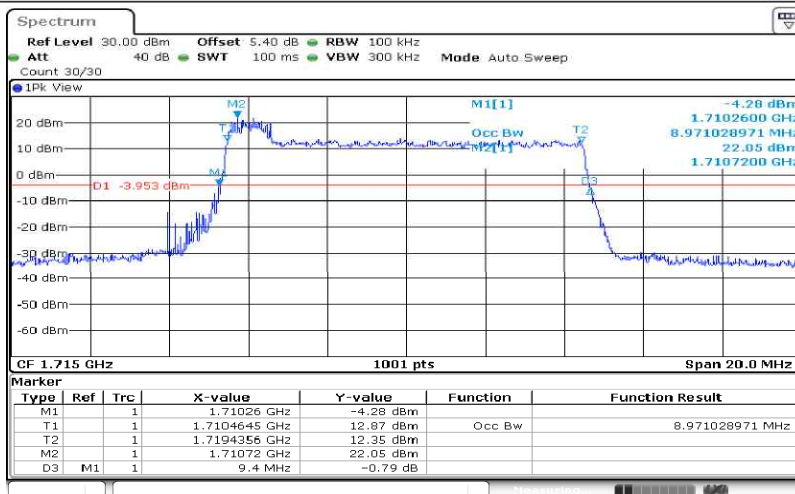
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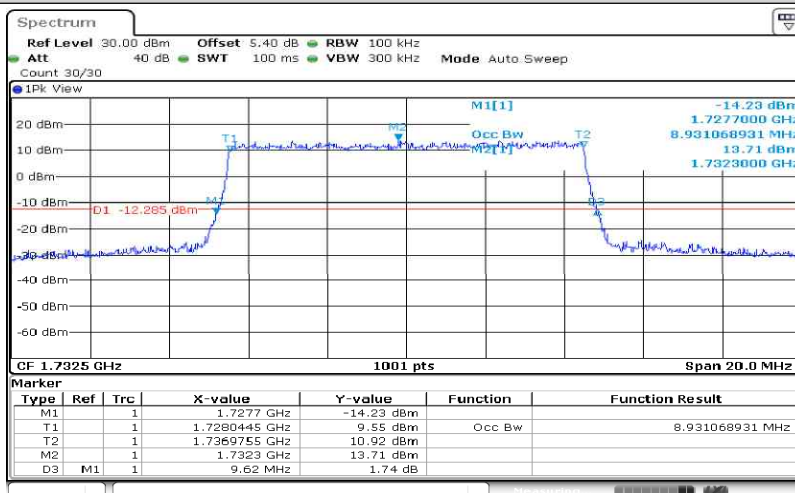


Band4-10MHz-QPSK-20000-50RB#0-8.971



Date: 3 JUN 2020 14:48:00

Band4-10MHz-QPSK-20175-50RB#0-8.931



Date: 3 JUN 2020 14:48:26



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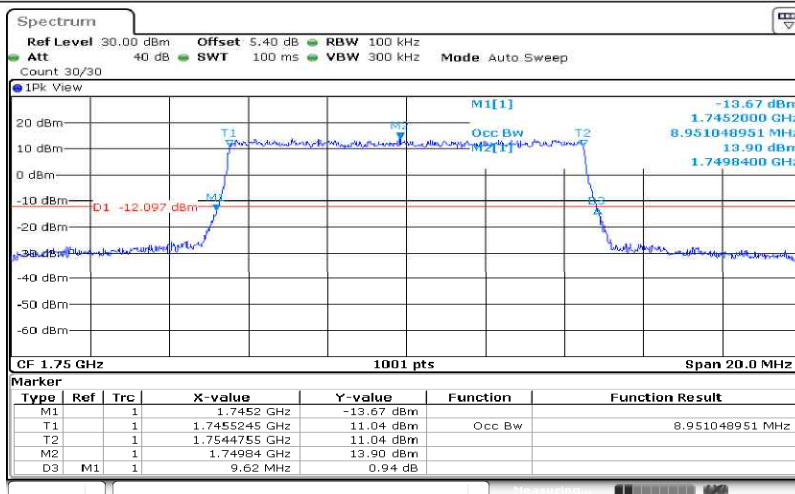
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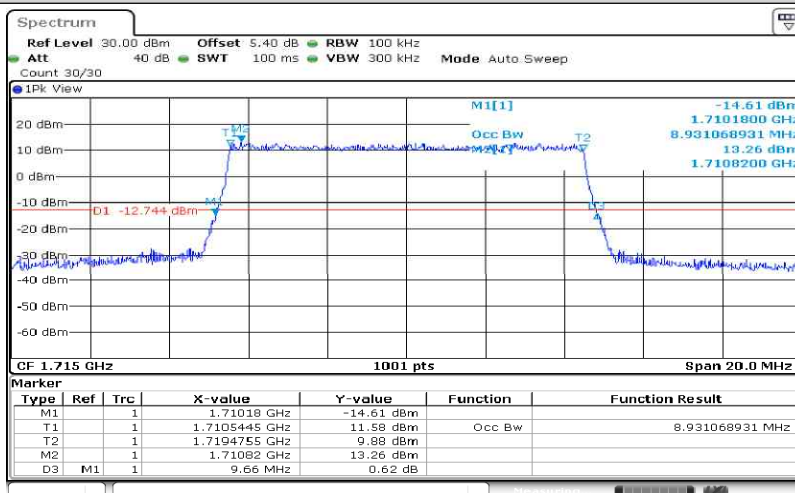


Band4-10MHz-QPSK-20350-50RB#0-8.951



Date: 3 JUN 2020 14:48:52

Band4-10MHz-16QAM-20000-50RB#0-8.931



Date: 3 JUN 2020 14:48:13



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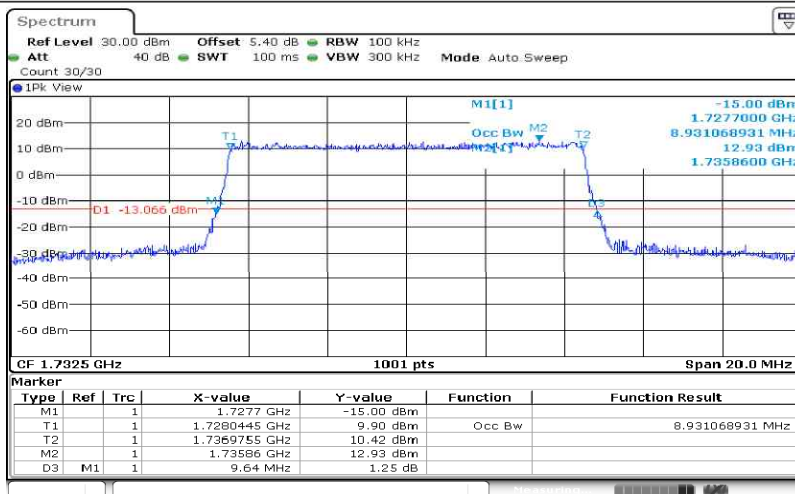
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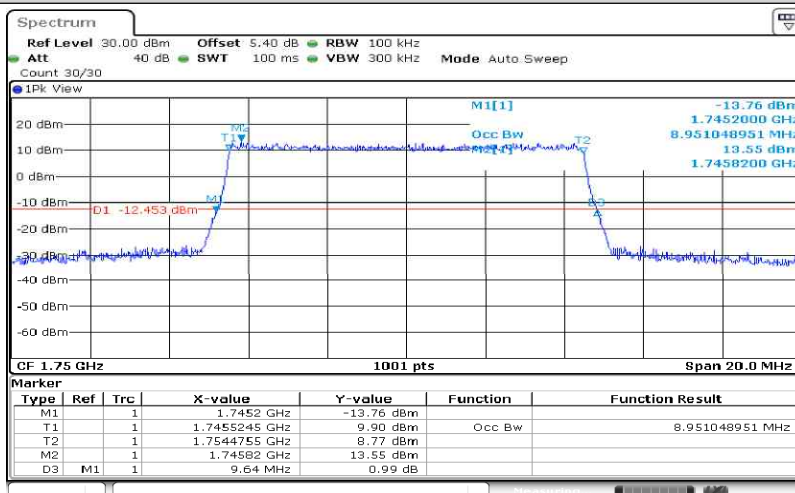


Band4-10MHz-16QAM-20175-50RB#0-8.931



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Band4-10MHz-16QAM-20350-50RB#0-8.951



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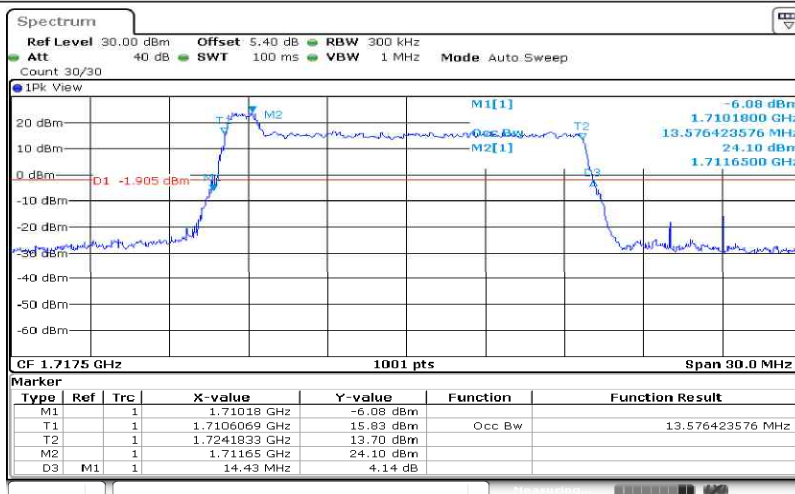
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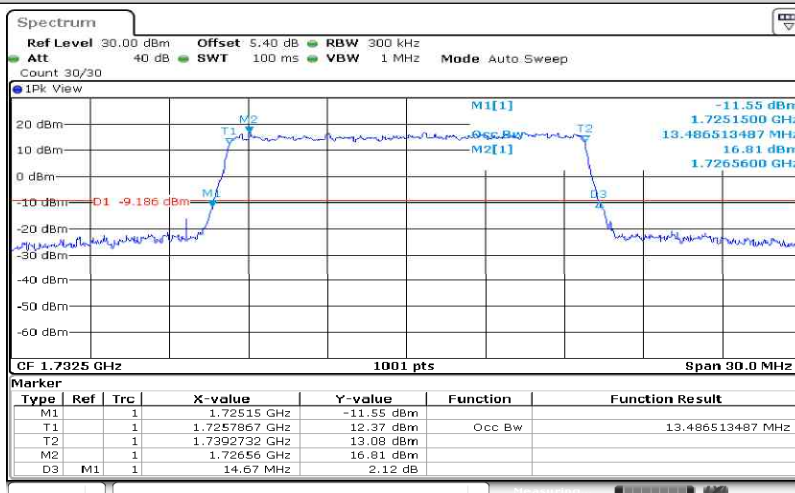


Band4-15MHz-QPSK-20025-75RB#0-13.576



Date: 3 JUN 2020 14:49:23

Band4-15MHz-QPSK-20175-75RB#0-13.487



Date: 3 JUN 2020 14:49:49

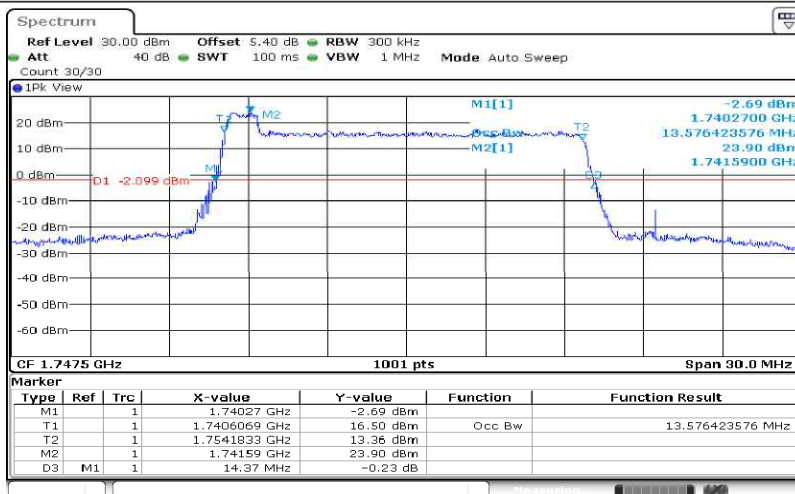


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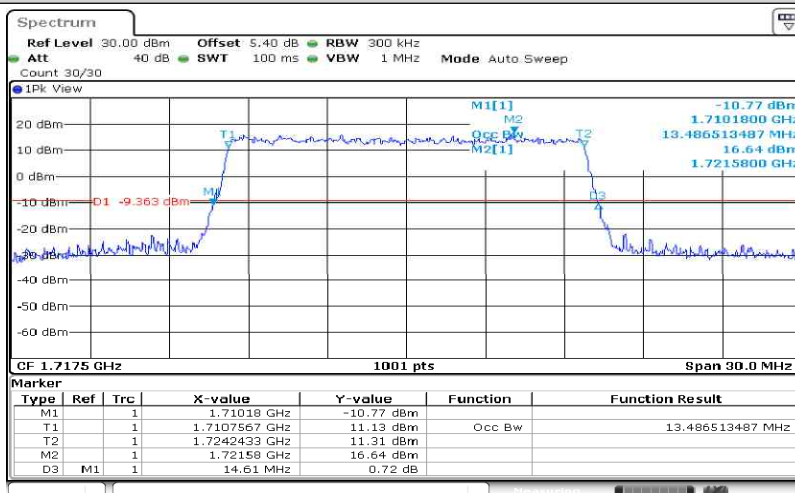


Band4-15MHz-QPSK-20325-75RB#0-13.576



Date: 3 JUN 2020 14:50:15

Band4-15MHz-16QAM-20025-75RB#0-13.487



Date: 3 JUN 2020 14:49:36



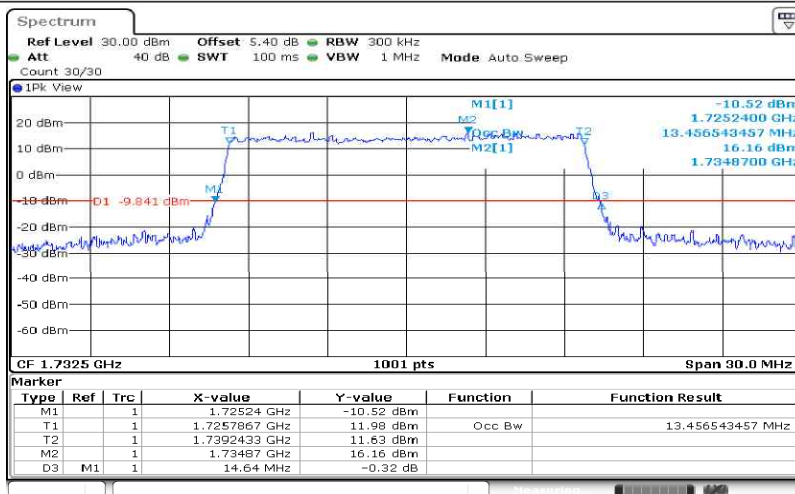
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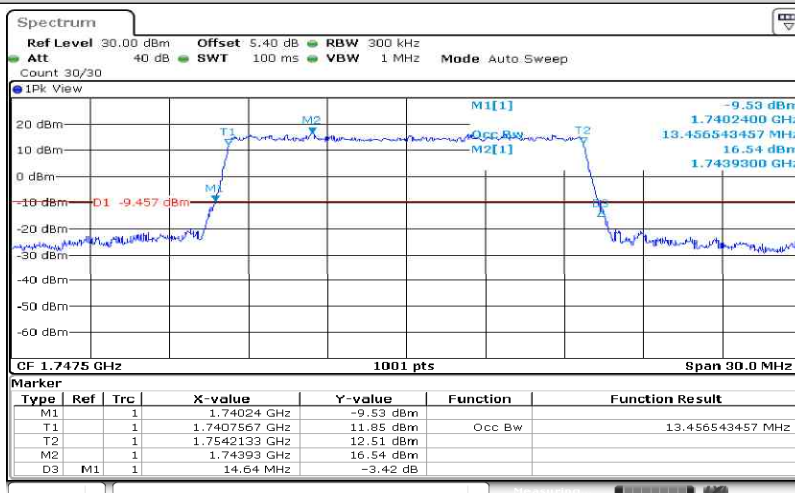
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Band4-15MHz-16QAM-20175-75RB#0-13.457



Date: 3 JUN 2020 14:50:02

Band4-15MHz-16OAM-20325-75RB#0-13.457



Date: 3 JUN 2020 14:50:28



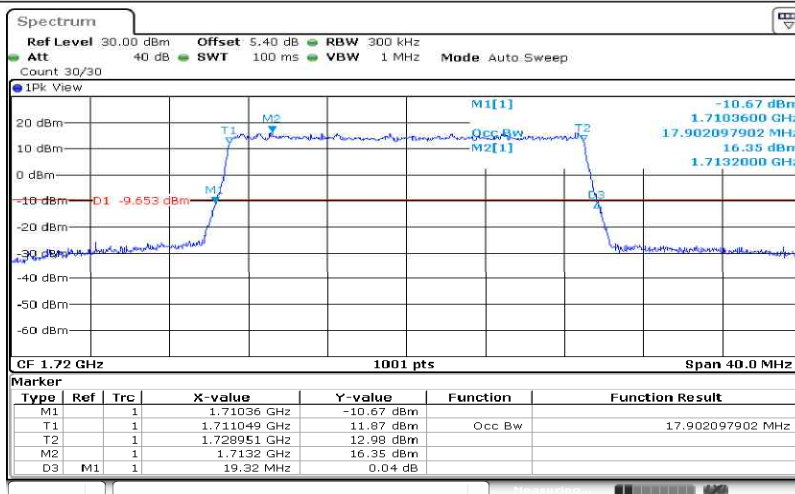
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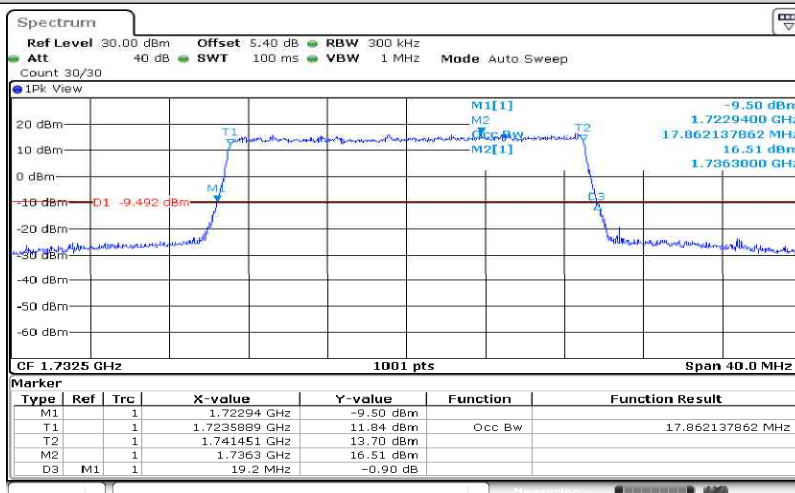


Band4-20MHz-QPSK-20050-100RB#0-17.902



Date: 3 JUN 2020 14:50:47

Band4-20MHz-QPSK-20175-100RB#0-17.862



Date: 3 JUN 2020 14:51:12



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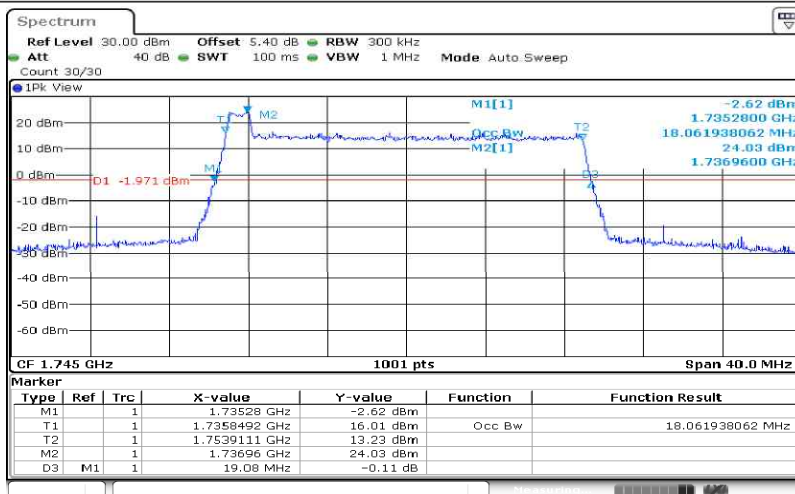
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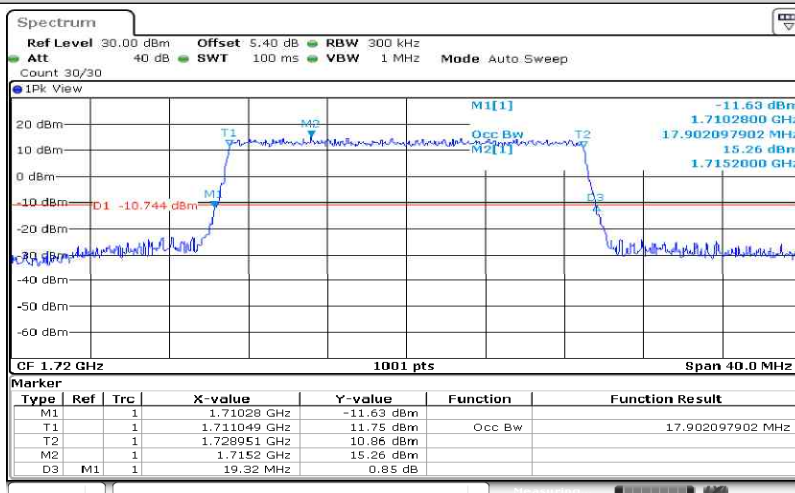


Band4-20MHz-QPSK-20300-100RB#0-18.062



Date: 3 JUN 2020 14:51:38

Band4-20MHz-16QAM-20050-100RB#0-17.902



Date: 3 JUN 2020 14:50:59



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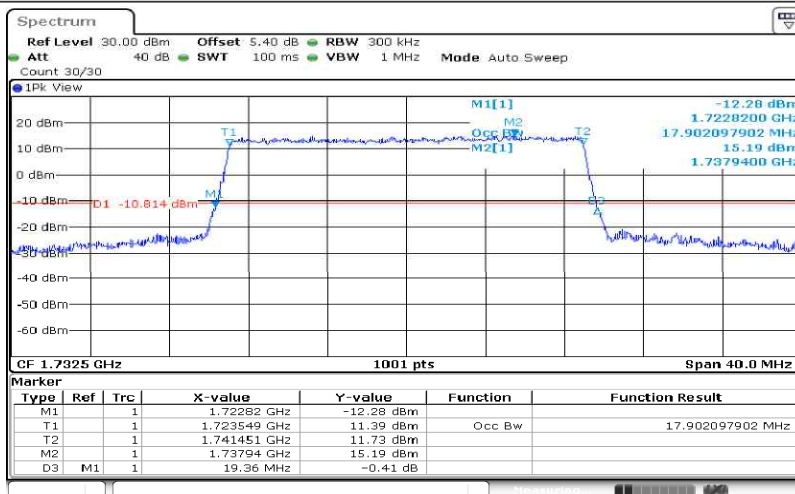
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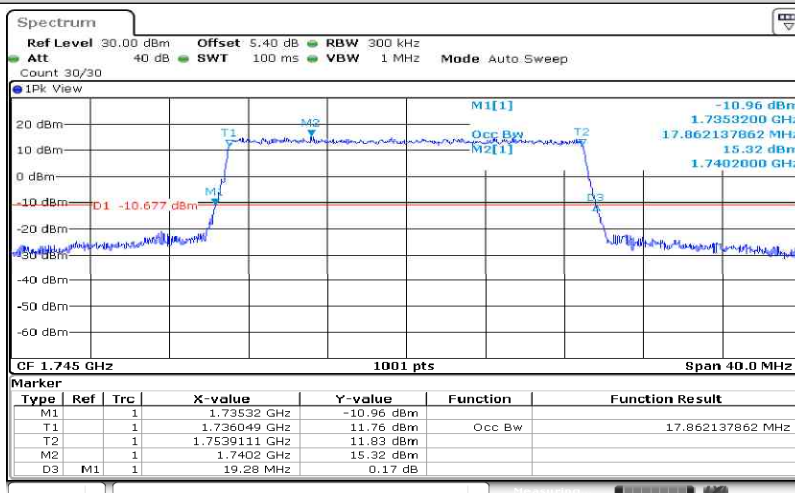


Band4-20MHz-16QAM-20175-100RB#0-17.902



Date: 3 JUN 2020 14:51:25

Band4-20MHz-16QAM-20300-100RB#0-17.862



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## 5. Band Edge Compliance

### 5.1. Test Plots

Band4-1.4MHz-QPSK-19957-1RB#0



Date: 3 JUN 2020 14:52:17

Band4-1.4MHz-QPSK-19957-6RB#0



Date: 3 JUN 2020 14:52:59

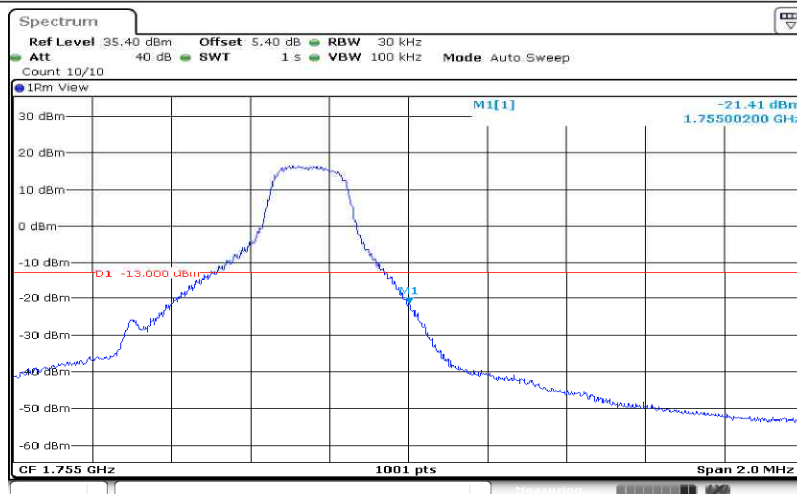


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Band4-1.4MHz-QPSK-20393-1RB#5



Date: 3 JUN 2020 14:53:44

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Band4-1.4MHz-16QAM-19957-1RB#0



Date: 3 JUN 2020 14:52:38

Band4-1.4MHz-16QAM-19957-6RB#0



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Band4-1.4MHz-16QAM-20393-1RB#5



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Band4-1.4MHz-16QAM-20393-6RB#0



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Band4-3MHz-QPSK-19965-1RB#0



Date: 3 JUN 2020 14:55:13

Band4-3MHz-QPSK-19965-15RB#0



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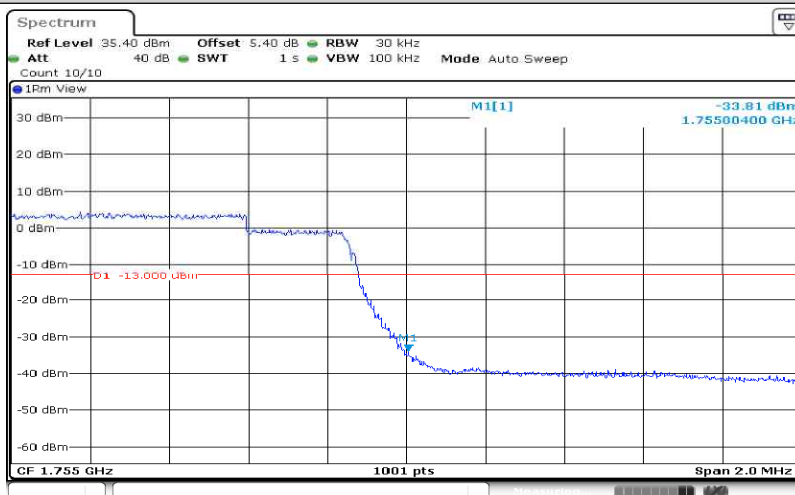


Band4-3MHz-QPSK-20385-1RB#14



Date: 3 JUN 2020 14:56:40

Band4-3MHz-QPSK-20385-15RB#0



Date: 3 JUN 2020 14:57:21





Band4-3MHz-16QAM-19965-1RB#0



Date: 3 JUN 2020 14:55:34

Band4-3MHz-16QAM-19965-15RB#0



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Band4-3MHz-16QAM-20385-15RB#0



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Band4-5MHz-QPSK-19975-1RB#0



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Band4-5MHz-QPSK-20375-1RB#24



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Band4-10MHz-QPSK-20000-1RB#0



Date: 3 JUN 2020 15:01:03

Band4-10MHz-QPSK-20000-50RB#0



Date: 3 JUN 2020 15:01:44



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Band4-10MHz-QPSK-20350-1RB#49



Date: 3 JUN 2020 15:02:29

Band4-10MHz-QPSK-20350-50RB#0



Date: 3 JUN 2020 15:03:11

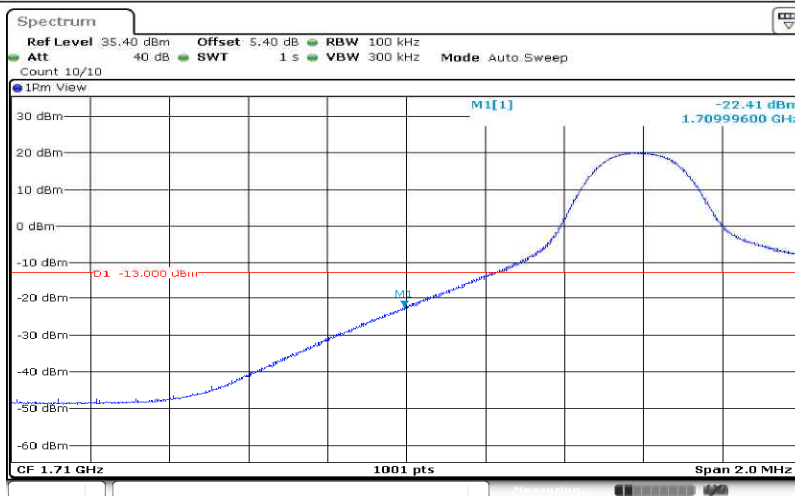


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Band4-10MHz-16QAM-20000-1RB#0



Date: 3 JUN 2020 15:01:23

Band4-10MHz-16QAM-20000-50RB#0



Date: 3 JUN 2020 15:02:04



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Band4-10MHz-16QAM-20350-1RB#49



Date: 3 JUN 2020 15:02:50

Band4-10MHz-16QAM-20350-50RB#0



Date: 3 JUN 2020 15:03:31





Band4-15MHz-QPSK-20025-1RB#0



Date: 3 JUN 2020 15:03:58

Band4-15MHz-QPSK-20025-75RB#0



Date: 3 JUN 2020 15:04:39



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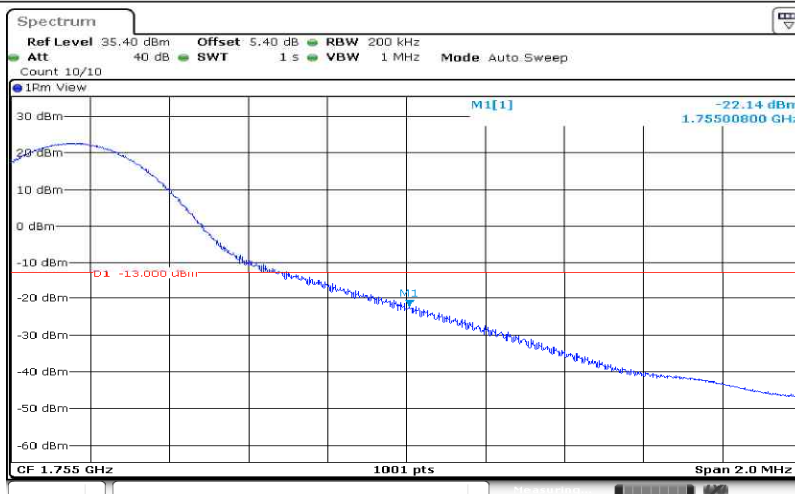
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Band4-15MHz-QPSK-20325-1RB#74



Date: 3 JUN 2020 15:05:25

Band4-15MHz-QPSK-20325-75RB#0



Date: 3 JUN 2020 15:06:06



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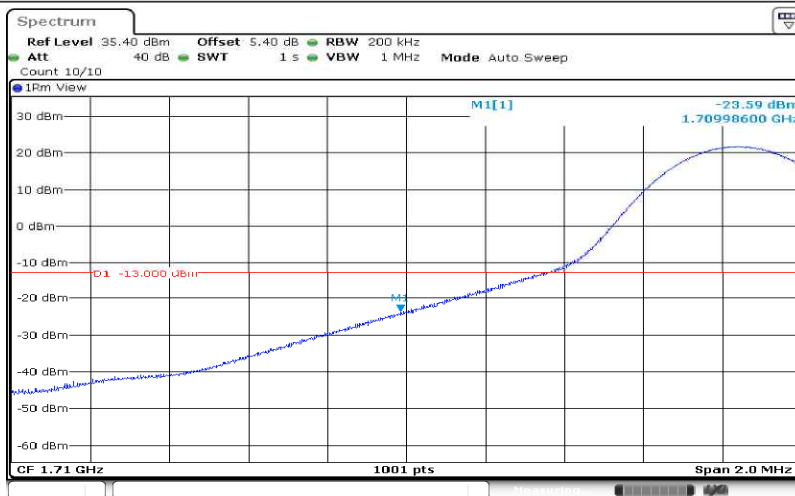
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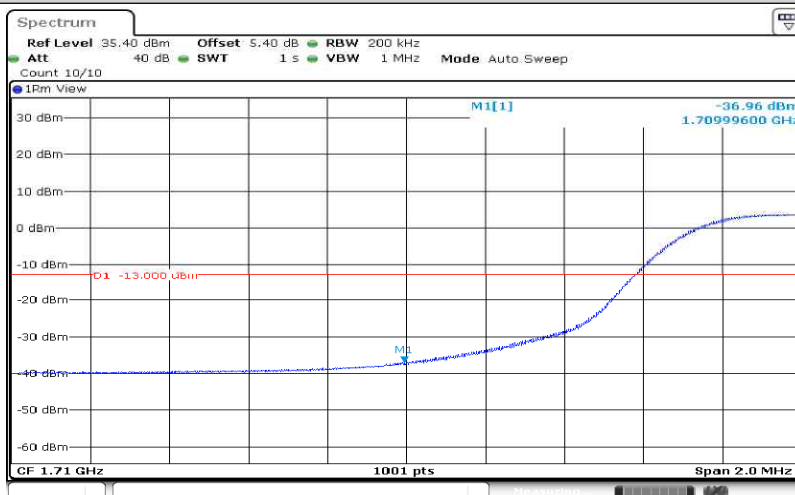


Band4-15MHz-16QAM-20025-1RB#0



Date: 3 JUN 2020 15:04:18

Band4-15MHz-16QAM-20025-75RB#0



Date: 3 JUN 2020 15:05:00



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Band4-15MHz-16QAM-20325-1RB#74



Date: 3 JUN 2020 15:05:46

Band4-15MHz-16QAM-20325-75RB#0



Date: 3 JUN 2020 15:06:27

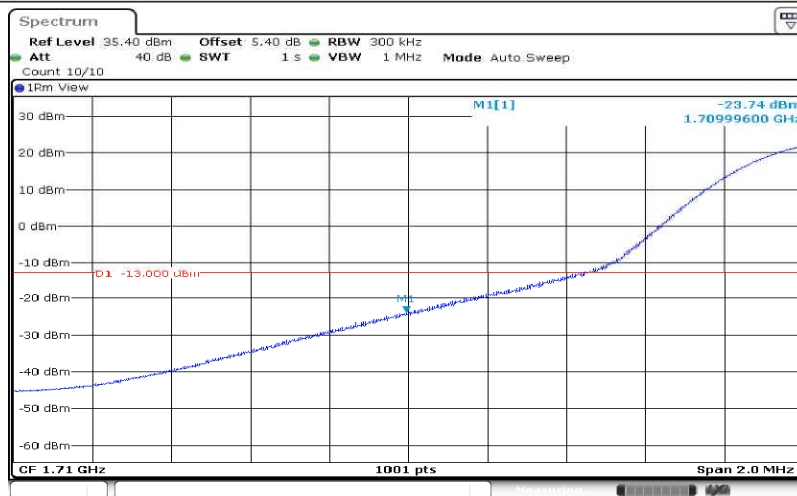


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Band4-20MHz-QPSK-20050-1RB#0



Date: 3 JUN 2020 15:06:53

Band4-20MHz-QPSK-20050-100RB#0



Date: 3 JUN 2020 15:07:35



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Band4-20MHz-QPSK-20300-1RB#99



Date: 3 JUN 2020 15:08:20

Band4-20MHz-QPSK-20300-100RB#0

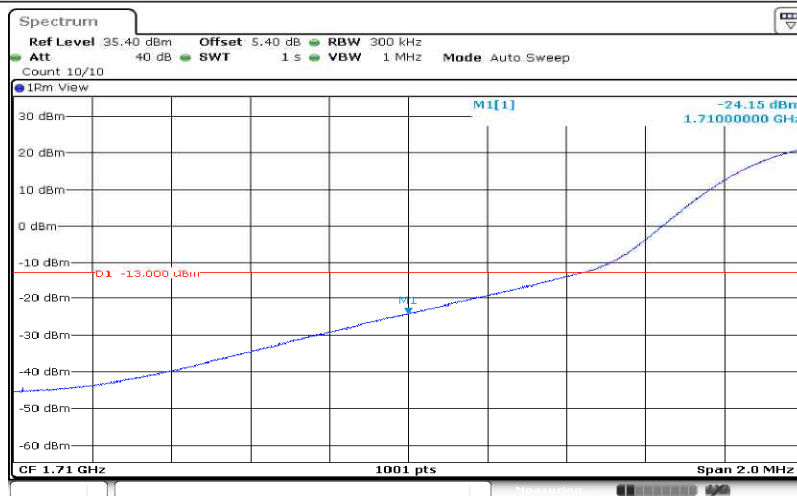


Date: 3 JUN 2020 15:09:01





Band4-20MHz-16QAM-20050-1RB#0



Date: 3 JUN 2020 15:07:14

Band4-20MHz-16QAM-20050-100RB#0



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Band4-20MHz-16QAM-20300-1RB#99



Date: 3 JUN 2020 15:08:40

Band4-20MHz-16QAM-20300-100RB#0



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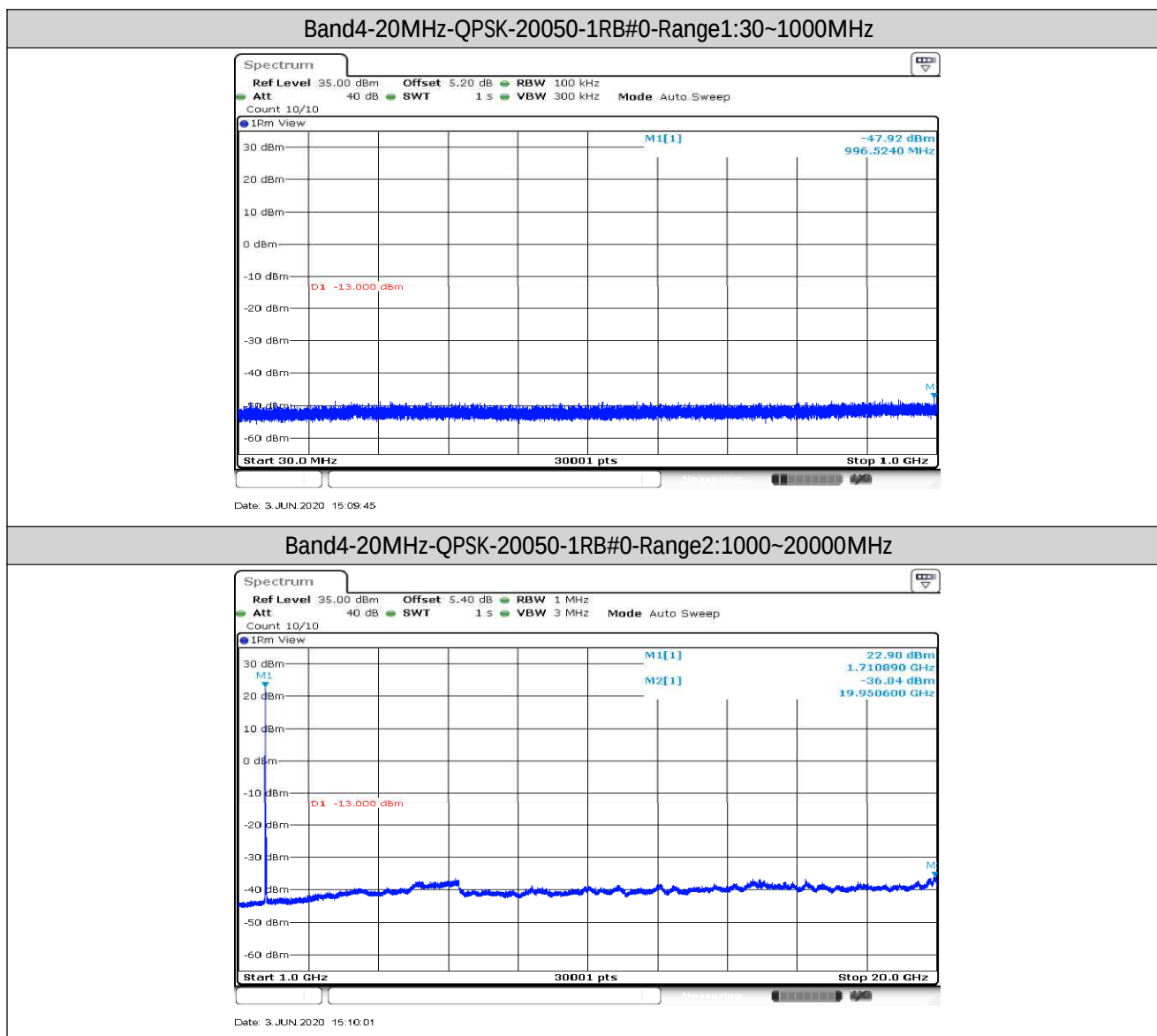


## 6. Spurious Emission at Antenna Terminal

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



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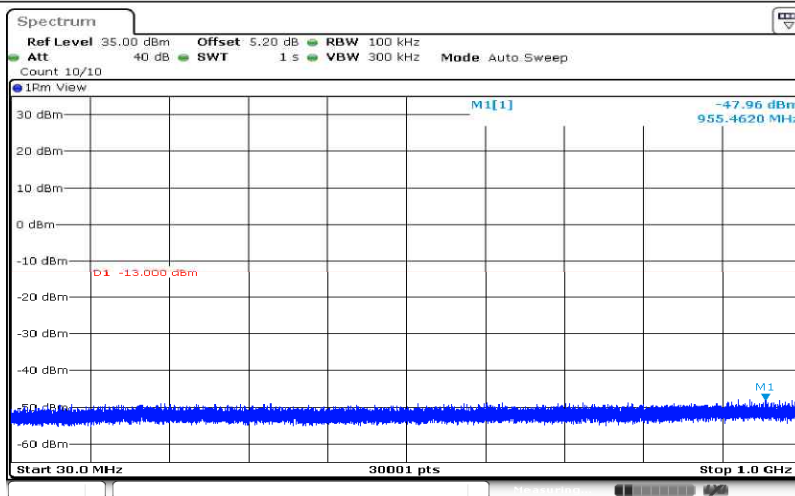
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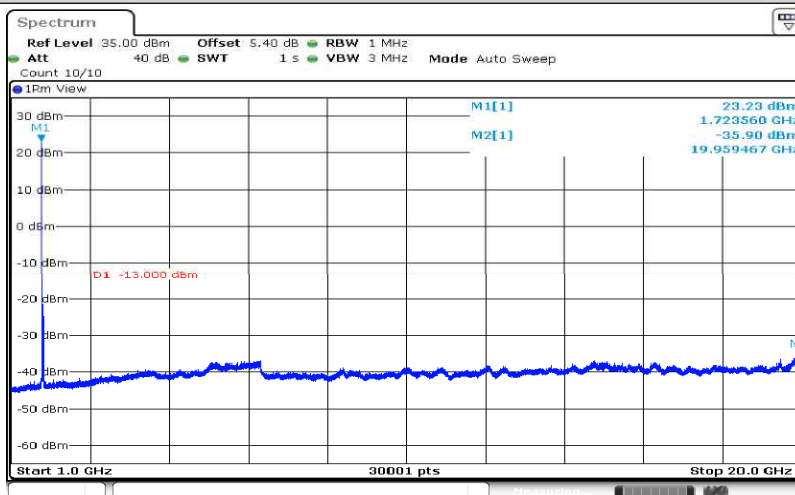


Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 15:10:55

Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



Date: 3 JUN 2020 15:11:11



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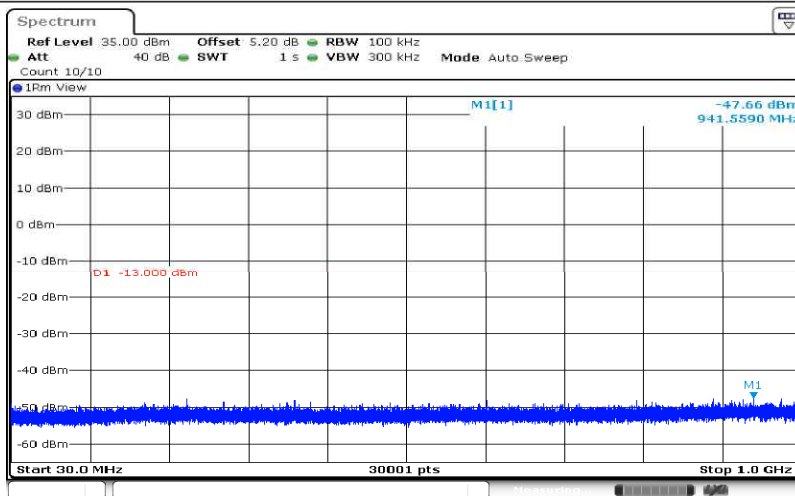
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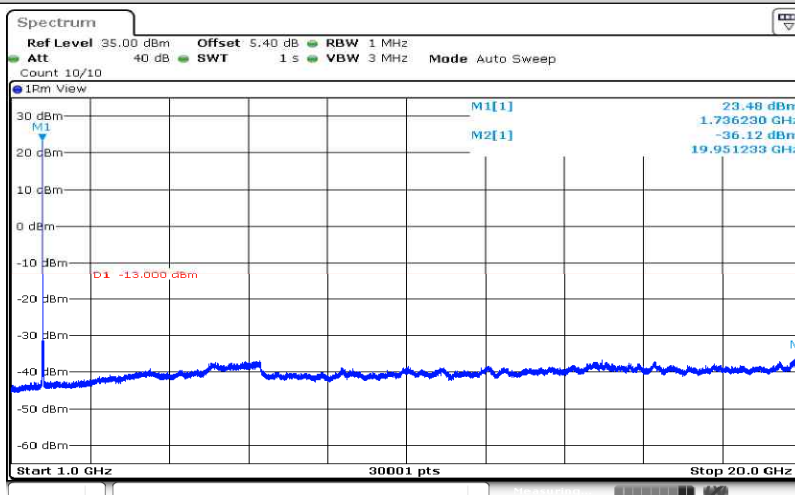


Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 15:12:06

Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz



Date: 3 JUN 2020 15:12:22



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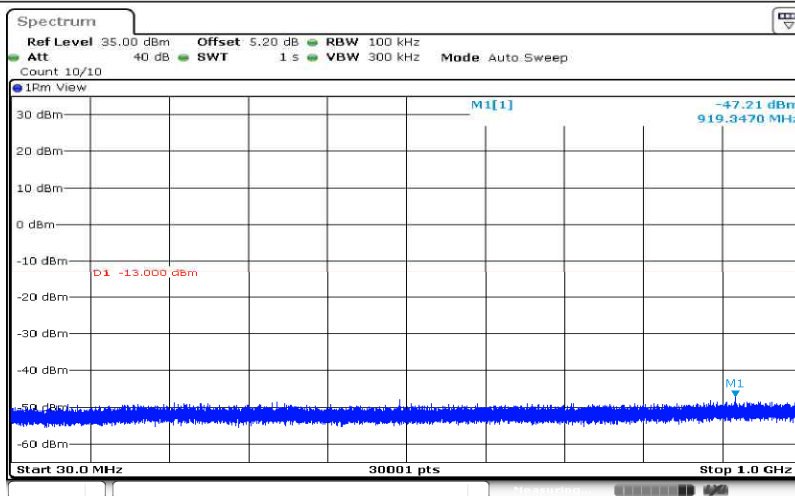
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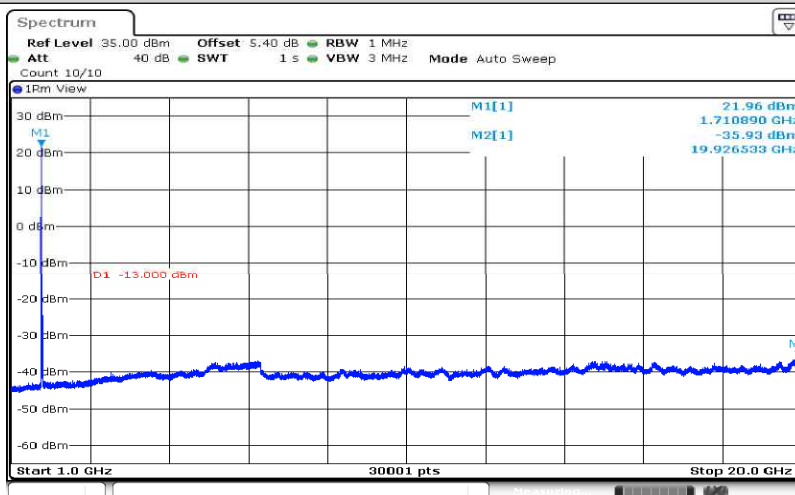


Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 15:10:20

Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz



Date: 3 JUN 2020 15:10:36

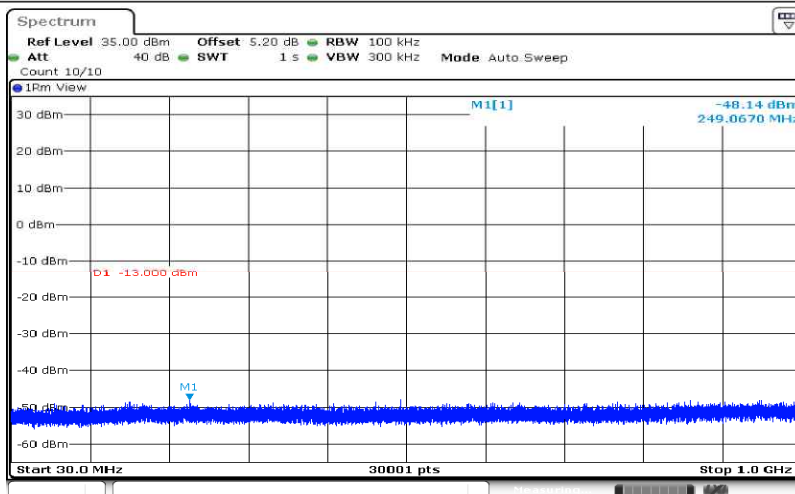


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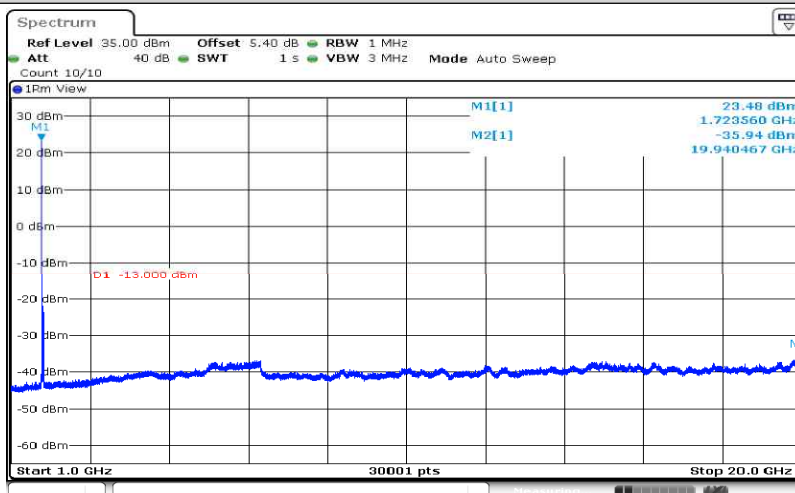


Band4-20MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 15:11:30

Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



Date: 3 JUN 2020 15:11:47



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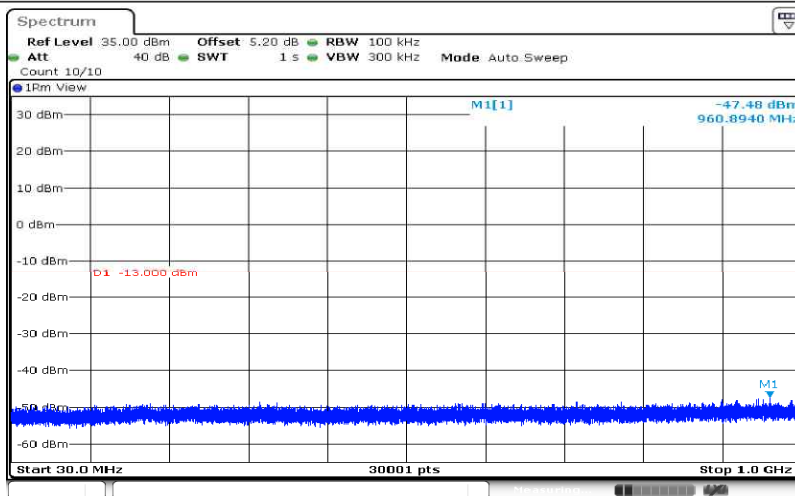
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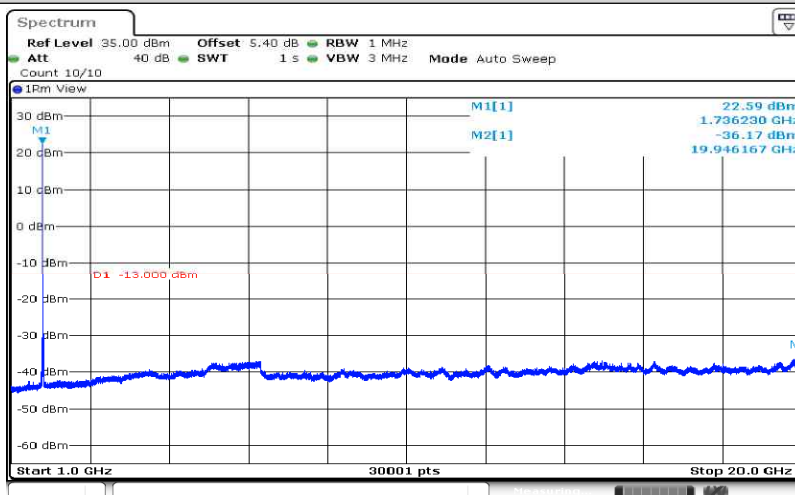


Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 15:12:41

Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz



Date: 3 JUN 2020 15:12:57



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## 7. Field Strength of Spurious Radiation

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

#### 7.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 111.7266        | -65.03      | -13.00           | 52.03       | Vertical     |
| 603.2017        | -63.82      | -13.00           | 50.82       | Vertical     |
| 2701.1402       | -36.73      | -13.00           | 23.73       | Vertical     |
| 7426.1475       | -56.28      | -13.00           | 43.28       | Vertical     |
| 14474.3825      | -47.93      | -13.00           | 34.93       | Vertical     |
| 17998.5000      | -40.75      | -13.00           | 27.75       | Vertical     |
| 42.7561         | -65.19      | -13.00           | 52.19       | Horizontal   |
| 231.2851        | -68.65      | -13.00           | 55.65       | Horizontal   |
| 2698.7397       | -35.57      | -13.00           | 22.57       | Horizontal   |
| 3457.5153       | -60.19      | -13.00           | 47.19       | Horizontal   |
| 9350.7117       | -53.21      | -13.00           | 40.21       | Horizontal   |
| 16377.4459      | -44.18      | -13.00           | 31.18       | Horizontal   |

#### 7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 108.6224        | -65.61      | -13.00           | 52.61       | Vertical     |
| 724.7487        | -63.77      | -13.00           | 50.77       | Vertical     |
| 2576.7153       | -36.02      | -13.00           | 23.02       | Vertical     |
| 7381.1460       | -55.86      | -13.00           | 42.86       | Vertical     |
| 14490.8830      | -47.80      | -13.00           | 34.80       | Vertical     |
| 17998.5000      | -40.56      | -13.00           | 27.56       | Vertical     |
| 42.1256         | -64.92      | -13.00           | 51.92       | Horizontal   |
| 91.6951         | -75.70      | -13.00           | 62.70       | Horizontal   |
| 231.2366        | -69.19      | -13.00           | 56.19       | Horizontal   |
| 2695.5391       | -35.75      | -13.00           | 22.75       | Horizontal   |
| 9307.7103       | -53.23      | -13.00           | 40.23       | Horizontal   |
| 16390.9464      | -43.97      | -13.00           | 30.97       | Horizontal   |



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### 7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 109.9805        | -65.06      | -13.00           | 52.06       | Vertical     |
| 633.1762        | -64.59      | -13.00           | 51.59       | Vertical     |
| 2711.1422       | -36.79      | -13.00           | 23.79       | Vertical     |
| 7351.6451       | -55.96      | -13.00           | 42.96       | Vertical     |
| 10668.7556      | -51.95      | -13.00           | 38.95       | Vertical     |
| 14491.8831      | -47.70      | -13.00           | 34.70       | Vertical     |
| 41.8346         | -64.83      | -13.00           | 51.83       | Horizontal   |
| 231.9641        | -69.23      | -13.00           | 56.23       | Horizontal   |
| 2698.7397       | -35.53      | -13.00           | 22.53       | Horizontal   |
| 3631.0210       | -61.09      | -13.00           | 48.09       | Horizontal   |
| 7455.1485       | -56.77      | -13.00           | 43.77       | Horizontal   |
| 16366.4455      | -43.84      | -13.00           | 30.84       | Horizontal   |

#### Remark:

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





## 8. Frequency Stability

### 8.1. Frequency Vs 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               | -1.00          | -0.000581       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | VN            | NT               | -12.20         | -0.007093       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | VH            | NT               | 1.60           | 0.000930        | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VL            | NT               | -1.50          | -0.000866       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VN            | NT               | -7.30          | -0.004214       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VH            | NT               | -5.80          | -0.003348       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0      | VL            | NT               | -5.10          | -0.002923       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0      | VN            | NT               | -4.30          | -0.002464       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0      | VH            | NT               | -2.80          | -0.001605       | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0      | VL            | NT               | -1.80          | -0.001047       | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0      | VN            | NT               | -9.10          | -0.005291       | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0      | VH            | NT               | -5.20          | -0.003023       | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 100RB#0      | VL            | NT               | -10.60         | -0.006118       | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 100RB#0      | VN            | NT               | -5.30          | -0.003059       | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 100RB#0      | VH            | NT               | -5.30          | -0.003059       | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 100RB#0      | VL            | NT               | -8.20          | -0.004699       | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 100RB#0      | VN            | NT               | -9.20          | -0.005272       | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 100RB#0      | VH            | NT               | -4.50          | -0.002579       | ±2.5        | PASS    |

### 8.2. Frequency Vs 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              | -3.40          | -0.001977       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | -20              | -2.10          | -0.001221       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 0                | -6.50          | -0.003779       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 10               | -5.50          | -0.003198       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 20               | -2.00          | -0.001163       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 30               | -10.50         | -0.006105       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 40               | 0.50           | 0.000291        | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 50               | -11.90         | -0.006919       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -30              | -6.50          | -0.003752       | ±2.5        | PASS    |



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|       |       |       |       |         |    |     |        |           |      |      |
|-------|-------|-------|-------|---------|----|-----|--------|-----------|------|------|
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | -20 | -0.80  | -0.000462 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 0   | -7.40  | -0.004271 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 10  | -1.40  | -0.000808 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 20  | -6.30  | -0.003636 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 30  | -6.00  | -0.003463 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 40  | -4.80  | -0.002771 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 50  | -1.30  | -0.000750 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | -30 | 1.60   | 0.000917  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | -20 | -7.80  | -0.004470 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 0   | -0.90  | -0.000516 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 10  | -3.80  | -0.002178 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 20  | -7.00  | -0.004011 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 30  | -5.40  | -0.003095 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 40  | -11.40 | -0.006533 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 50  | -5.50  | -0.003152 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | -30 | -8.70  | -0.005058 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | -20 | -6.90  | -0.004012 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 0   | -4.90  | -0.002849 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 10  | -4.80  | -0.002791 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 20  | -5.60  | -0.003256 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 30  | -4.70  | -0.002733 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 40  | -9.20  | -0.005349 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 50  | 0.60   | 0.000349  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | -30 | -1.80  | -0.001039 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | -20 | -7.10  | -0.004098 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 0   | -3.40  | -0.001962 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 10  | -5.90  | -0.003405 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 20  | -2.60  | -0.001501 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 30  | -5.90  | -0.003405 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 40  | -5.40  | -0.003095 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 50  | -10.40 | -0.006003 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | -30 | -8.70  | -0.004986 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | -20 | -0.10  | -0.000057 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 0   | -0.80  | -0.000458 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 10  | -8.30  | -0.004756 | ±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 | 30  | -1.40  | -0.000802 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 40  | -9.70  | -0.005559 | ±2.5 | PASS |



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|       |       |       |       |         |    |    |       |           |      |      |
|-------|-------|-------|-------|---------|----|----|-------|-----------|------|------|
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 50 | -2.80 | -0.001605 | ±2.5 | PASS |
|-------|-------|-------|-------|---------|----|----|-------|-----------|------|------|



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