

# Appendix B.2

## LTE Band 4



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|------------|-------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#0            | 22.85       | 24.79      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#2            | 22.98       | 24.92      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#5            | 22.85       | 24.79      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 21.88       | 23.82      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#0            | 23.06       | 25         | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#2            | 23.11       | 25.05      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#5            | 22.96       | 24.9       | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 22          | 23.94      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#0            | 23.02       | 24.96      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#2            | 23.09       | 25.03      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#5            | 22.95       | 24.89      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 22.02       | 23.96      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#0            | 22.13       | 24.07      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#2            | 22.27       | 24.21      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#5            | 22.3        | 24.24      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 20.99       | 22.93      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#0            | 22.32       | 24.26      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#2            | 22.39       | 24.33      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#5            | 22.48       | 24.42      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 21.13       | 23.07      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#0            | 22.37       | 24.31      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#2            | 22.42       | 24.36      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#5            | 22.21       | 24.15      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 21.13       | 23.07      | 30          | PASS    |
| Band4 | 1.4MHz    | 64QAM      | 19957   | 1RB#0            | 21.1        | 23.04      | 30          | PASS    |
| Band4 | 1.4MHz    | 64QAM      | 19957   | 1RB#2            | 21.22       | 23.16      | 30          | PASS    |
| Band4 | 1.4MHz    | 64QAM      | 19957   | 1RB#5            | 21.14       | 23.08      | 30          | PASS    |



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.  
Wireless Laboratories

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000  
中国·苏州·中国 (江苏) 自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn  
t (86-512) 62992980 sgs.china@sgs.com

|       |        |       |       |        |       |       |    |      |
|-------|--------|-------|-------|--------|-------|-------|----|------|
| Band4 | 1.4MHz | 64QAM | 19957 | 6RB#0  | 19.94 | 21.88 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#0  | 21.17 | 23.11 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#2  | 21.34 | 23.28 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#5  | 21.22 | 23.16 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 6RB#0  | 20.06 | 22    | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#0  | 21.19 | 23.13 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#2  | 21.32 | 23.26 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#5  | 21.22 | 23.16 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 6RB#0  | 20.05 | 21.99 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#0  | 22.96 | 24.9  | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#8  | 22.96 | 24.9  | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#14 | 22.9  | 24.84 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0 | 21.94 | 23.88 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#0  | 23.01 | 24.95 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#8  | 23.05 | 24.99 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#14 | 23.02 | 24.96 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0 | 22.06 | 24    | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#0  | 23.04 | 24.98 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#8  | 23.08 | 25.02 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#14 | 23    | 24.94 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 15RB#0 | 22.07 | 24.01 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 1RB#0  | 22.24 | 24.18 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 1RB#8  | 22.3  | 24.24 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 1RB#14 | 22.21 | 24.15 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 15RB#0 | 21.01 | 22.95 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 1RB#0  | 22.3  | 24.24 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 1RB#8  | 22.39 | 24.33 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 1RB#14 | 22.35 | 24.29 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 15RB#0 | 21.13 | 23.07 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 20385 | 1RB#0  | 22.31 | 24.25 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 20385 | 1RB#8  | 22.42 | 24.36 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 20385 | 1RB#14 | 22.3  | 24.24 | 30 | PASS |



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 中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编：215000 t (86-512) 62992980 sgs.china@sgs.com

|       |      |       |       |        |       |       |    |      |
|-------|------|-------|-------|--------|-------|-------|----|------|
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | 21.13 | 23.07 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 1RB#0  | 21.26 | 23.2  | 30 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 1RB#8  | 21.14 | 23.08 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 1RB#14 | 21.23 | 23.17 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 15RB#0 | 20.03 | 21.97 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 1RB#0  | 21.25 | 23.19 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 1RB#8  | 21.32 | 23.26 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 1RB#14 | 21.22 | 23.16 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 15RB#0 | 20.1  | 22.04 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 1RB#0  | 21.29 | 23.23 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 1RB#8  | 21.27 | 23.21 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 1RB#14 | 21.31 | 23.25 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 15RB#0 | 20.15 | 22.09 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#0  | 22.96 | 24.9  | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#12 | 22.92 | 24.86 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#24 | 22.93 | 24.87 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0 | 21.94 | 23.88 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#0  | 23.07 | 25.01 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#12 | 23.03 | 24.97 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#24 | 23.08 | 25.02 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0 | 22.06 | 24    | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#0  | 23.06 | 25    | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#12 | 23.08 | 25.02 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#24 | 23.07 | 25.01 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 25RB#0 | 22.07 | 24.01 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#0  | 22.21 | 24.15 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#12 | 22.35 | 24.29 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#24 | 22.31 | 24.25 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | 21.04 | 22.98 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#0  | 22.34 | 24.28 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#12 | 22.46 | 24.4  | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#24 | 22.47 | 24.41 | 30 | PASS |



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|       |       |       |       |        |       |       |    |      |
|-------|-------|-------|-------|--------|-------|-------|----|------|
| Band4 | 5MHz  | 16QAM | 20175 | 25RB#0 | 21.12 | 23.06 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#0  | 22.31 | 24.25 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#12 | 22.45 | 24.39 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#24 | 22.4  | 24.34 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 25RB#0 | 21.12 | 23.06 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 19975 | 1RB#0  | 21.22 | 23.16 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 19975 | 1RB#12 | 21.31 | 23.25 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 19975 | 1RB#24 | 21.21 | 23.15 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 19975 | 25RB#0 | 20.02 | 21.96 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20175 | 1RB#0  | 21.26 | 23.2  | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20175 | 1RB#12 | 21.27 | 23.21 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20175 | 1RB#24 | 21.34 | 23.28 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20175 | 25RB#0 | 20.13 | 22.07 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20375 | 1RB#0  | 21.31 | 23.25 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20375 | 1RB#12 | 21.28 | 23.22 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20375 | 1RB#24 | 21.33 | 23.27 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20375 | 25RB#0 | 20.12 | 22.06 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#0  | 22.94 | 24.88 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#24 | 22.97 | 24.91 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#49 | 22.98 | 24.92 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0 | 21.98 | 23.92 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#0  | 23.09 | 25.03 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#24 | 23.13 | 25.07 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#49 | 23.12 | 25.06 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0 | 22.07 | 24.01 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#0  | 23.03 | 24.97 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#24 | 23.05 | 24.99 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#49 | 23.11 | 25.05 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0 | 22.05 | 23.99 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#0  | 22.36 | 24.3  | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#24 | 22.38 | 24.32 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#49 | 22.2  | 24.14 | 30 | PASS |



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|       |       |       |       |        |       |       |    |      |
|-------|-------|-------|-------|--------|-------|-------|----|------|
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0 | 21.02 | 22.96 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#0  | 22.34 | 24.28 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#24 | 22.34 | 24.28 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#49 | 22.4  | 24.34 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0 | 21.13 | 23.07 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#0  | 22.28 | 24.22 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#24 | 22.34 | 24.28 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#49 | 22.44 | 24.38 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0 | 21.09 | 23.03 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 1RB#0  | 21.15 | 23.09 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 1RB#24 | 21.26 | 23.2  | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 1RB#49 | 21.13 | 23.07 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 50RB#0 | 20.07 | 22.01 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 1RB#0  | 21.24 | 23.18 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 1RB#24 | 21.45 | 23.39 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 1RB#49 | 21.37 | 23.31 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 50RB#0 | 20.18 | 22.12 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 1RB#0  | 21.26 | 23.2  | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 1RB#24 | 21.33 | 23.27 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 1RB#49 | 21.27 | 23.21 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 50RB#0 | 20.1  | 22.04 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#0  | 22.86 | 24.8  | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#38 | 22.99 | 24.93 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#74 | 23    | 24.94 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0 | 21.98 | 23.92 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#0  | 22.96 | 24.9  | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#38 | 23.12 | 25.06 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#74 | 23.1  | 25.04 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 75RB#0 | 22.11 | 24.05 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#0  | 23.08 | 25.02 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#38 | 23.04 | 24.98 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#74 | 23.14 | 25.08 | 30 | PASS |



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|       |       |       |       |         |       |       |    |      |
|-------|-------|-------|-------|---------|-------|-------|----|------|
| Band4 | 15MHz | QPSK  | 20325 | 75RB#0  | 22.17 | 24.11 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#0   | 22.29 | 24.23 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#38  | 22.32 | 24.26 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#74  | 22.28 | 24.22 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0  | 21.01 | 22.95 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#0   | 22.23 | 24.17 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#38  | 22.59 | 24.53 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#74  | 22.39 | 24.33 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0  | 21.14 | 23.08 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#0   | 22.46 | 24.4  | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#38  | 22.26 | 24.2  | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#74  | 22.33 | 24.27 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0  | 21.18 | 23.12 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 1RB#0   | 21.14 | 23.08 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 1RB#38  | 21.18 | 23.12 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 1RB#74  | 21.2  | 23.14 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 75RB#0  | 20.05 | 21.99 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#0   | 21.27 | 23.21 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#38  | 21.3  | 23.24 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#74  | 21.28 | 23.22 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 75RB#0  | 20.14 | 22.08 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#0   | 21.37 | 23.31 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#38  | 21.31 | 23.25 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#74  | 21.38 | 23.32 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 75RB#0  | 20.2  | 22.14 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#0   | 22.81 | 24.75 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#49  | 22.94 | 24.88 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#99  | 23.05 | 24.99 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | 22    | 23.94 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#0   | 22.89 | 24.83 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#49  | 23.13 | 25.07 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#99  | 23.06 | 25    | 30 | PASS |



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|       |       |       |       |         |       |       |    |      |
|-------|-------|-------|-------|---------|-------|-------|----|------|
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 22.05 | 23.99 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#0   | 23.04 | 24.98 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#49  | 23.06 | 25    | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#99  | 23.03 | 24.97 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 22.12 | 24.06 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#0   | 22.17 | 24.11 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#49  | 22.29 | 24.23 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#99  | 22.44 | 24.38 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 21    | 22.94 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#0   | 22.14 | 24.08 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#49  | 22.4  | 24.34 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#99  | 22.32 | 24.26 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 21.11 | 23.05 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#0   | 22.27 | 24.21 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#49  | 22.31 | 24.25 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#99  | 22.33 | 24.27 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 21.17 | 23.11 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#0   | 21.14 | 23.08 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#49  | 21.17 | 23.11 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#99  | 21.31 | 23.25 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | 20.07 | 22.01 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#0   | 21.21 | 23.15 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#49  | 21.35 | 23.29 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#99  | 21.31 | 23.25 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | 20.14 | 22.08 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#0   | 21.24 | 23.18 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#49  | 21.3  | 23.24 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#99  | 21.34 | 23.28 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | 20.18 | 22.12 | 30 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

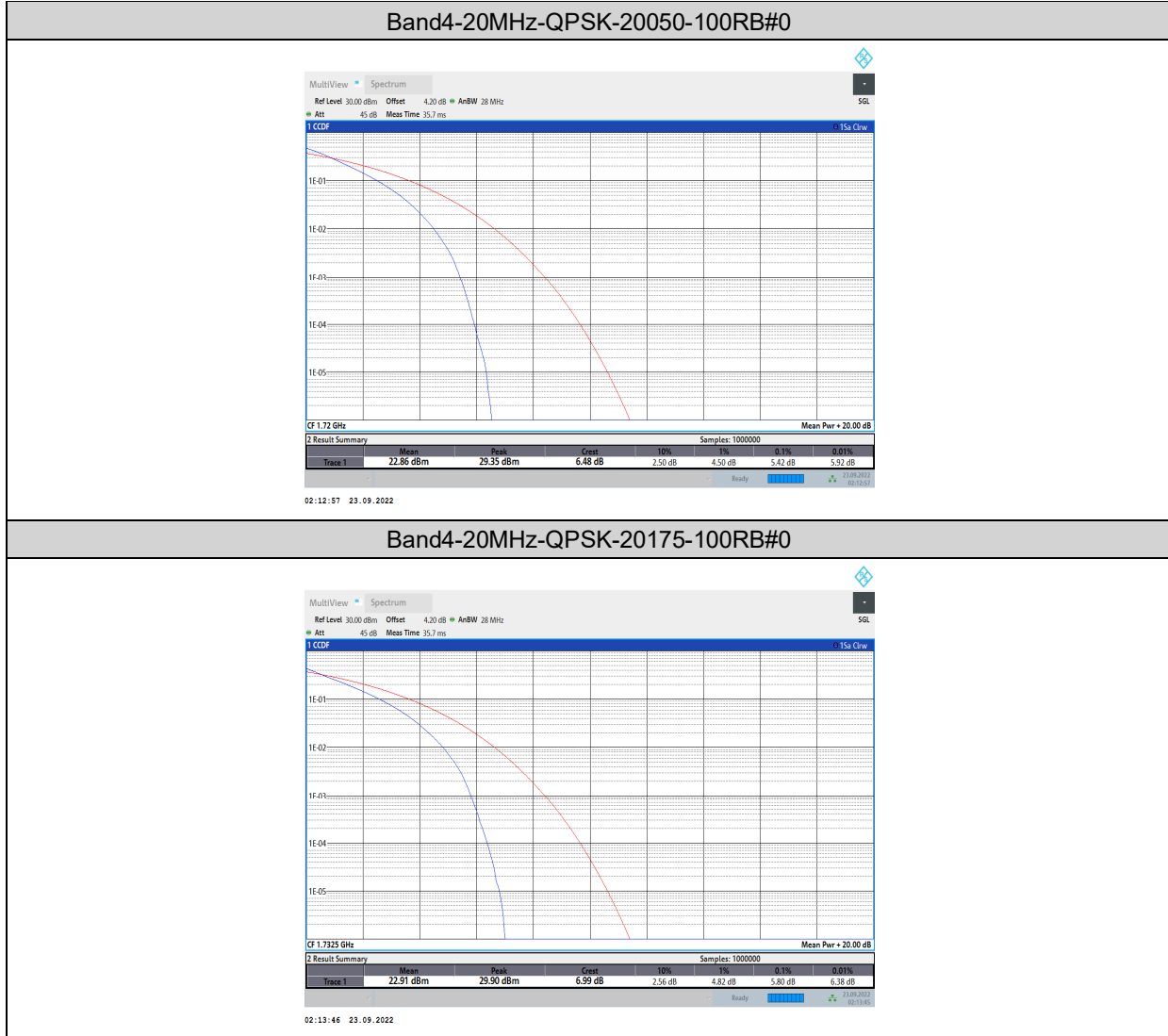
| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0          | 5.42       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0          | 5.80       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0          | 5.42       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0          | 6.24       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 100RB#0          | 6.64       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 100RB#0          | 6.34       | 13        | PASS    |
| Band4 | 20MHz     | 64QAM      | 20050   | 100RB#0          | 6.68       | 13        | PASS    |
| Band4 | 20MHz     | 64QAM      | 20175   | 100RB#0          | 6.92       | 13        | PASS    |
| Band4 | 20MHz     | 64QAM      | 20300   | 100RB#0          | 6.72       | 13        | PASS    |



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Test Graphs

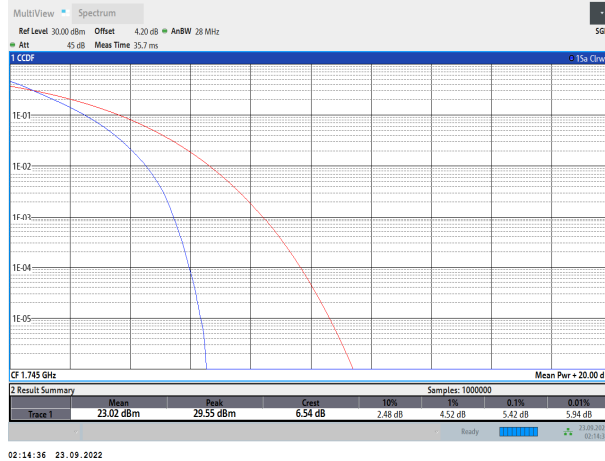


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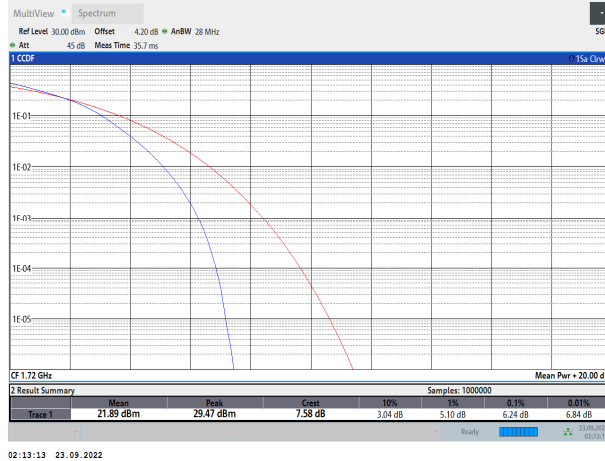
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Band4-20MHz-QPSK-20300-100RB#0



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

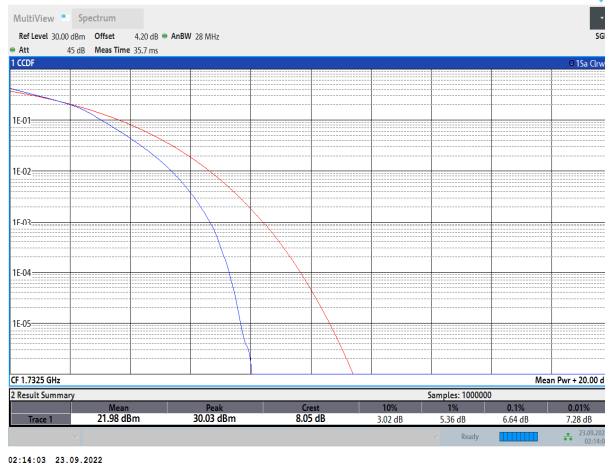


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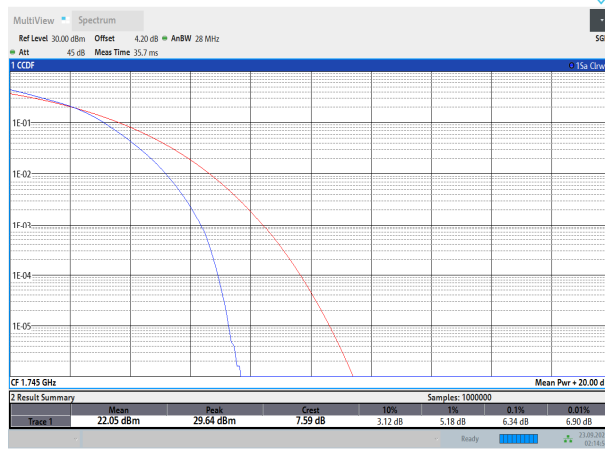
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Band4-20MHz-16QAM-20175-100RB#0



02:14:03 23. 09. 2022

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



02:14:52 23. 09. 2022

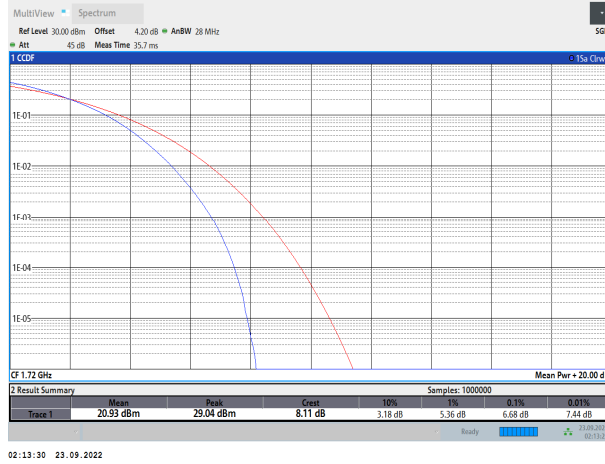


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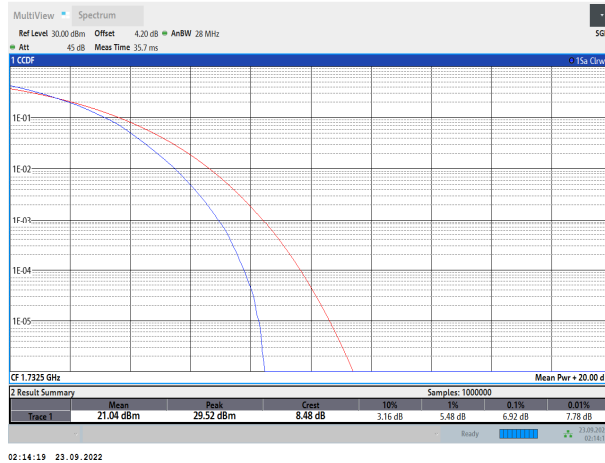
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Band4-20MHz-64QAM-20050-100RB#0



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

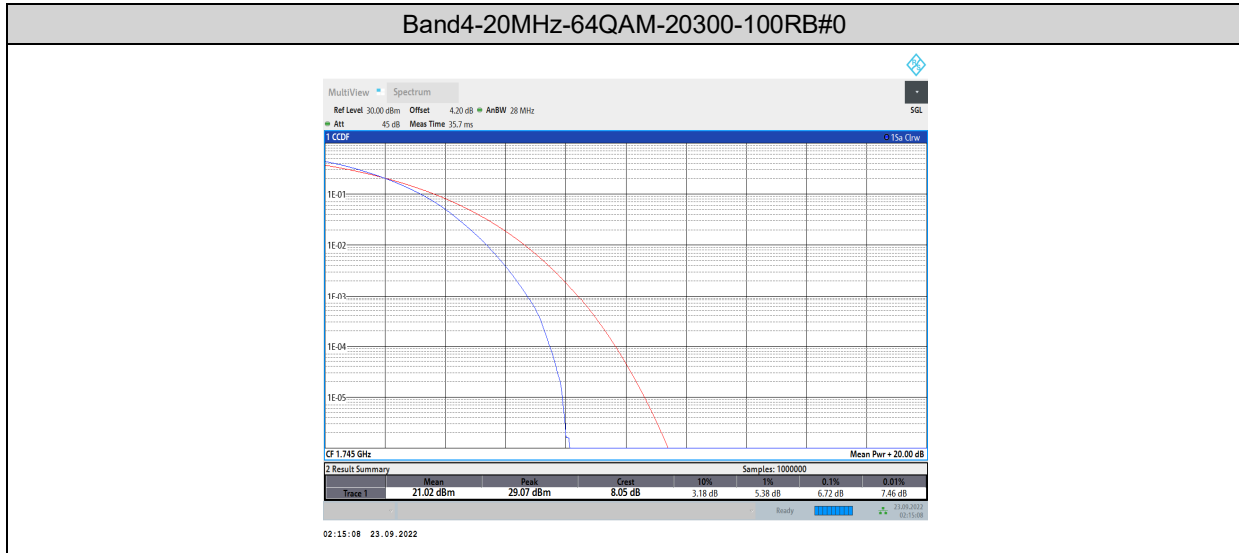


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## Modulation Characteristics

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|-------|-----------|------------|---------|------------------|--------|---------|
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0          | PASS   | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 100RB#0          | PASS   | PASS    |
| Band4 | 20MHz     | 64QAM      | 20175   | 100RB#0          | PASS   | PASS    |

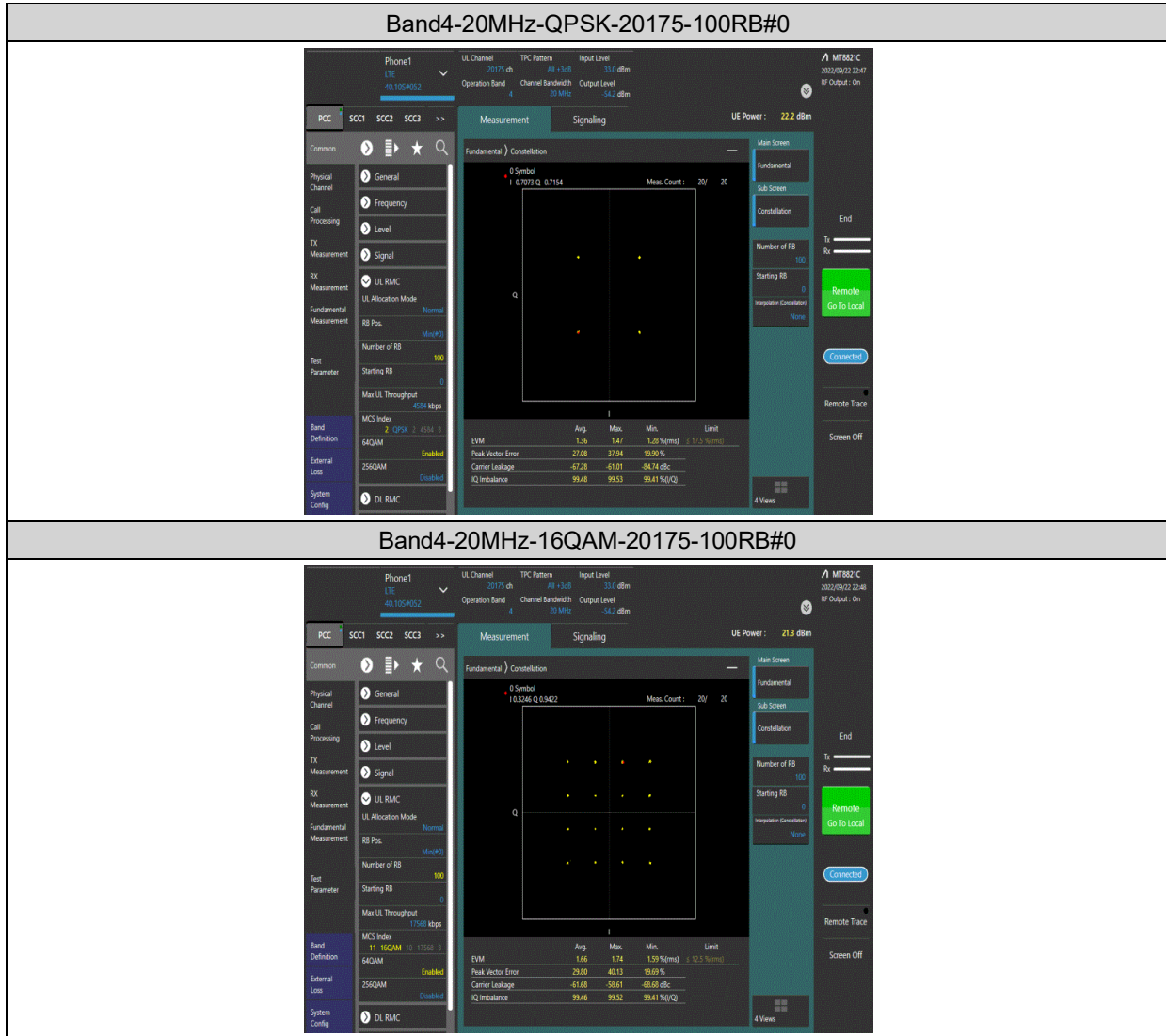


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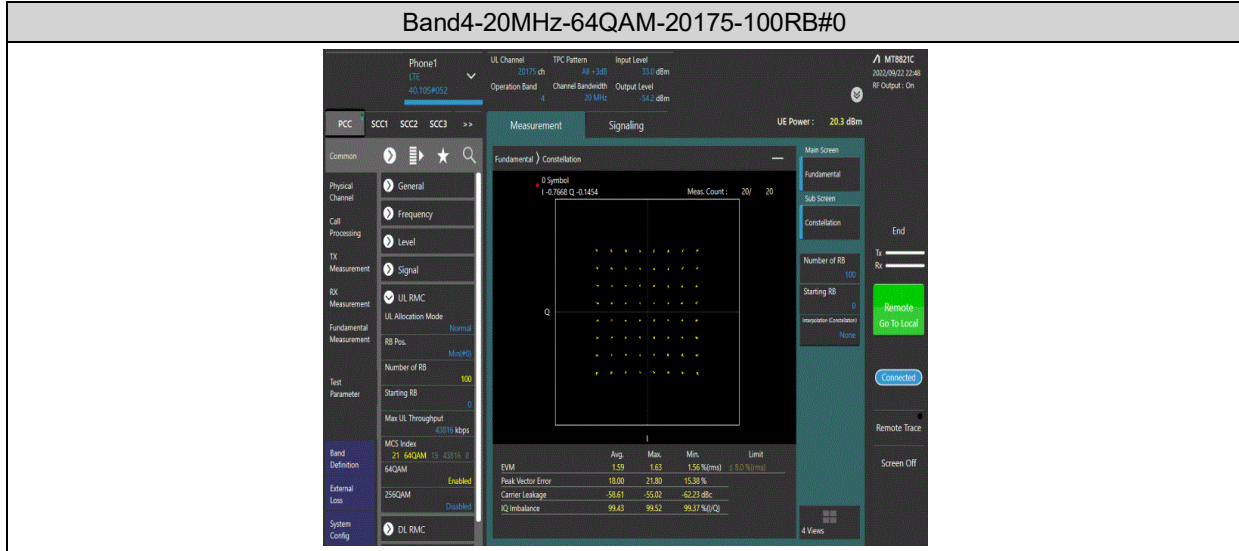
Test Graphs



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 1.087                    | 1.24                 | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 1.087                    | 1.24                 | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 1.085                    | 1.24                 | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 1.092                    | 1.24                 | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 1.093                    | 1.24                 | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 1.092                    | 1.24                 | PASS    |
| Band4 | 1.4MHz    | 64QAM      | 19957   | 6RB#0            | 1.091                    | 1.24                 | PASS    |
| Band4 | 1.4MHz    | 64QAM      | 20175   | 6RB#0            | 1.092                    | 1.24                 | PASS    |
| Band4 | 1.4MHz    | 64QAM      | 20393   | 6RB#0            | 1.092                    | 1.24                 | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | 2.696                    | 3.00                 | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 15RB#0           | 2.7                      | 2.99                 | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | 2.693                    | 2.98                 | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | 2.692                    | 3.00                 | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 15RB#0           | 2.69                     | 2.99                 | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | 2.691                    | 2.98                 | PASS    |
| Band4 | 3MHz      | 64QAM      | 19965   | 15RB#0           | 2.689                    | 2.97                 | PASS    |
| Band4 | 3MHz      | 64QAM      | 20175   | 15RB#0           | 2.694                    | 2.96                 | PASS    |
| Band4 | 3MHz      | 64QAM      | 20385   | 15RB#0           | 2.69                     | 2.97                 | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | 4.472                    | 4.88                 | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 25RB#0           | 4.476                    | 4.91                 | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | 4.469                    | 4.87                 | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | 4.473                    | 4.91                 | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 25RB#0           | 4.472                    | 4.93                 | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | 4.464                    | 4.89                 | PASS    |
| Band4 | 5MHz      | 64QAM      | 19975   | 25RB#0           | 4.484                    | 4.91                 | PASS    |
| Band4 | 5MHz      | 64QAM      | 20175   | 25RB#0           | 4.483                    | 4.92                 | PASS    |
| Band4 | 5MHz      | 64QAM      | 20375   | 25RB#0           | 4.475                    | 4.89                 | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | 8.941                    | 9.60                 | PASS    |
| Band4 | 10MHz     | QPSK       | 20175   | 50RB#0           | 8.943                    | 9.64                 | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | 8.929                    | 9.56                 | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 50RB#0           | 8.915                    | 9.58                 | PASS    |



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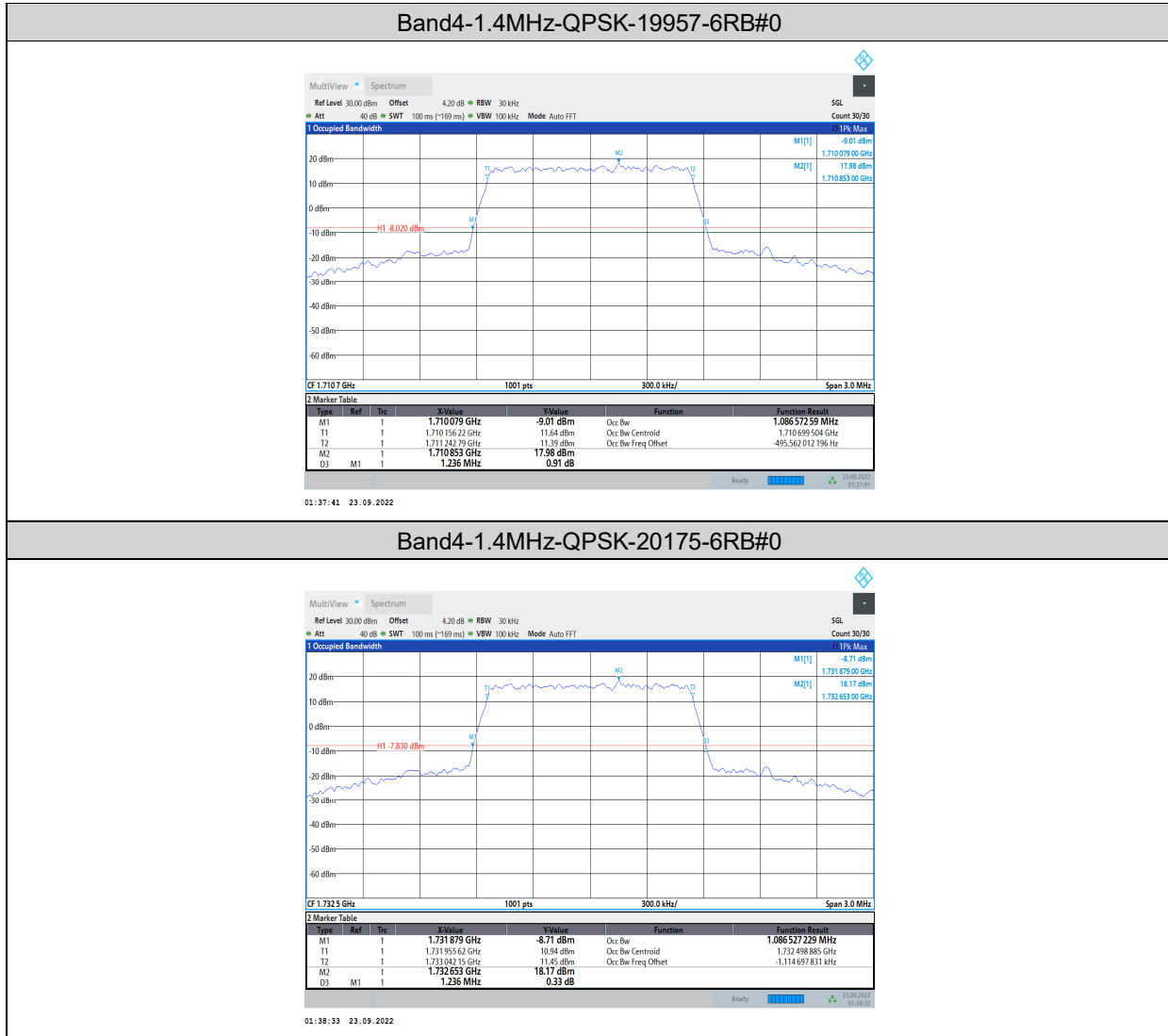
|       |       |       |       |         |        |       |      |
|-------|-------|-------|-------|---------|--------|-------|------|
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0  | 8.925  | 9.66  | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0  | 8.91   | 9.62  | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 50RB#0  | 8.928  | 9.64  | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 50RB#0  | 8.95   | 9.68  | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 50RB#0  | 8.928  | 9.68  | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0  | 13.406 | 14.64 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 75RB#0  | 13.495 | 14.76 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 75RB#0  | 13.439 | 14.70 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0  | 13.395 | 14.67 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0  | 13.467 | 14.79 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0  | 13.407 | 14.79 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 75RB#0  | 13.356 | 14.76 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 75RB#0  | 13.445 | 14.79 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 75RB#0  | 13.384 | 14.70 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | 17.839 | 19.28 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 17.938 | 19.44 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 17.865 | 19.24 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 17.788 | 19.28 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 17.927 | 19.36 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 17.824 | 19.36 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | 17.792 | 19.28 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | 17.924 | 19.44 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | 17.849 | 19.32 | PASS |



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Test Graphs

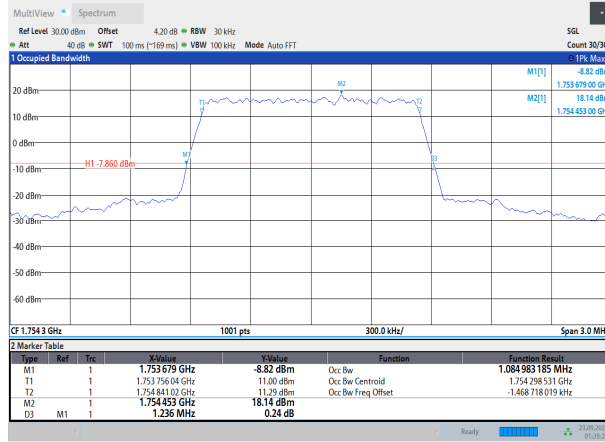


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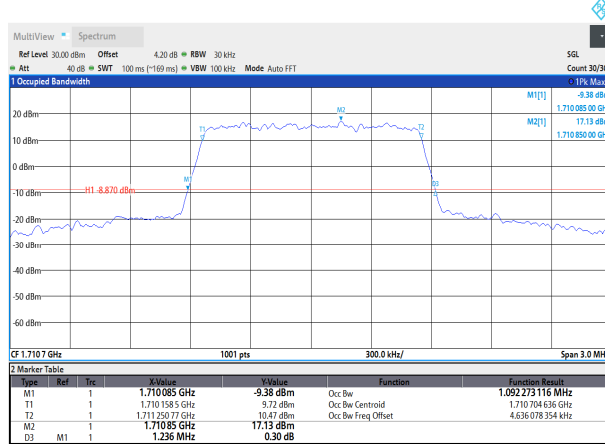
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Band4-1.4MHz-QPSK-20393-6RB#0



01:39:24 23.09.2022

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



01:37:58 23.09.2022

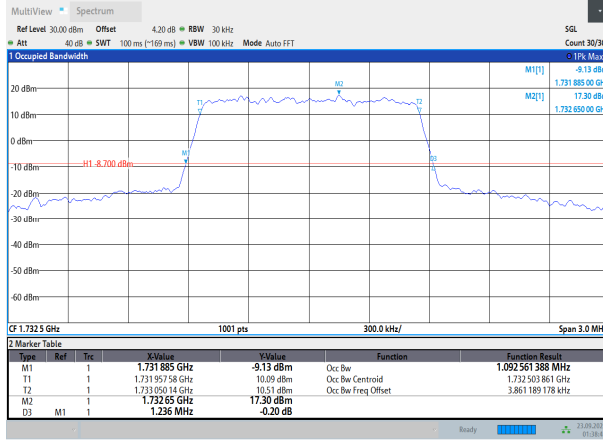


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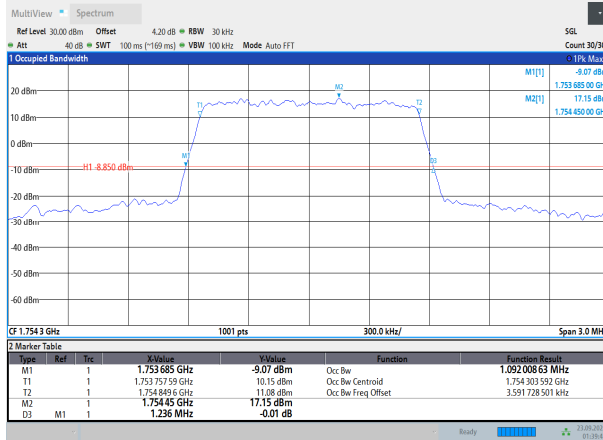
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Band4-1.4MHz-16QAM-20175-6RB#0



01:38:50 23.09.2022

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



01:39:42 23.09.2022

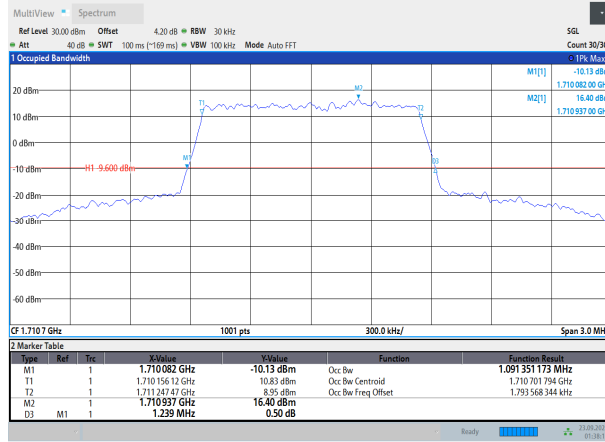


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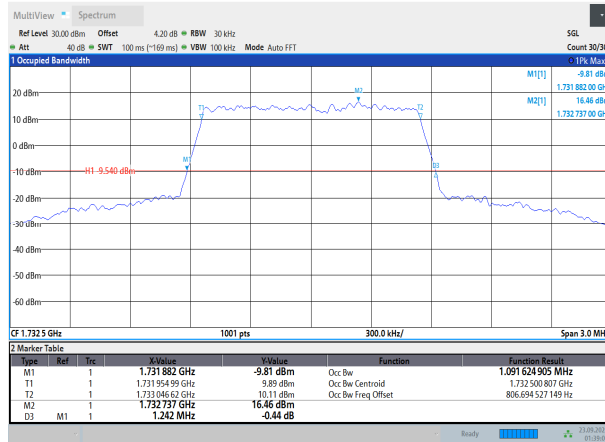
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Band4-1.4MHz-64QAM-19957-6RB#0



01:38:16 23.09.2022

Band4-1.4MHz-64QAM-20175-6RB#0



01:39:07 23.09.2022



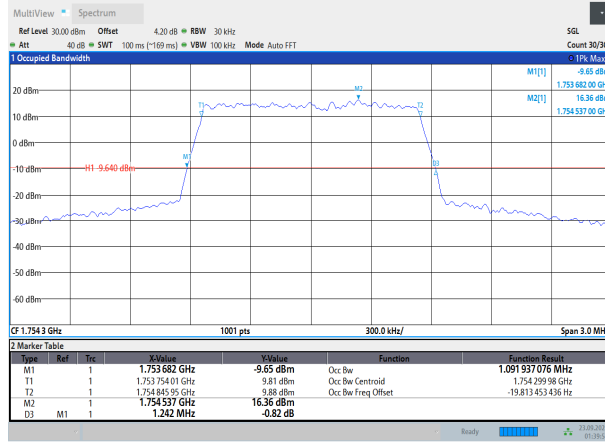
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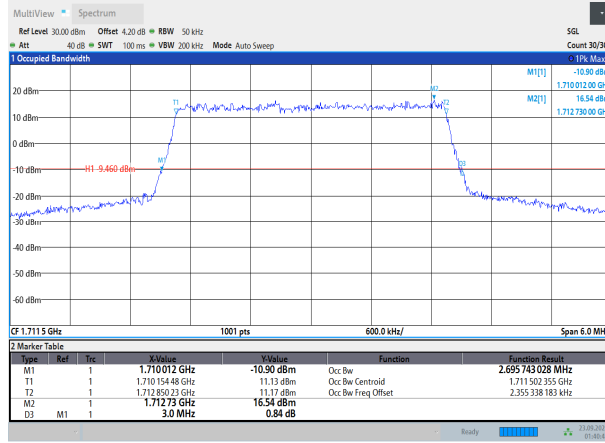


Band4-1.4MHz-64QAM-20393-6RB#0



01:39:59 23.09.2022

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



01:40:44 23.09.2022

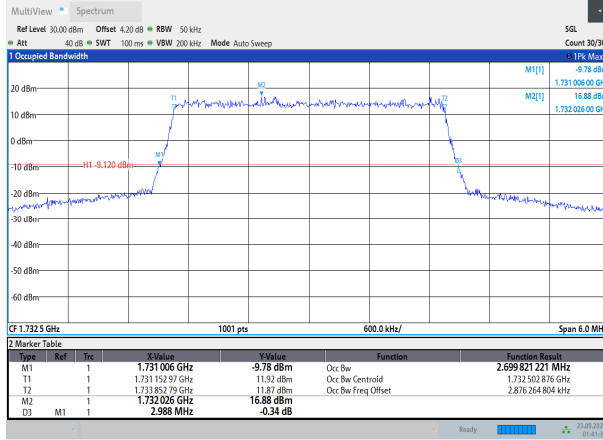


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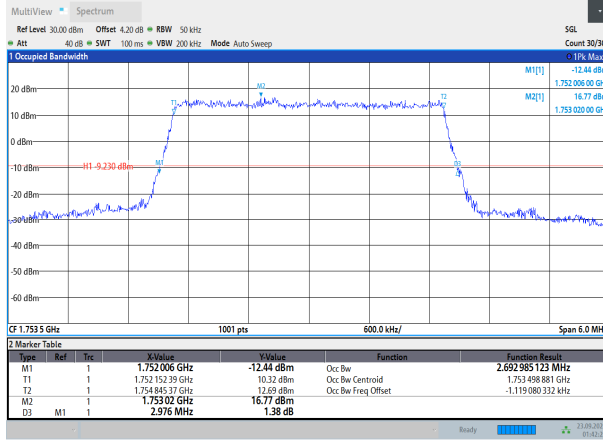
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Band4-3MHz-QPSK-20175-15RB#0



01:41:32 23.09.2022

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



01:42:21 23.09.2022

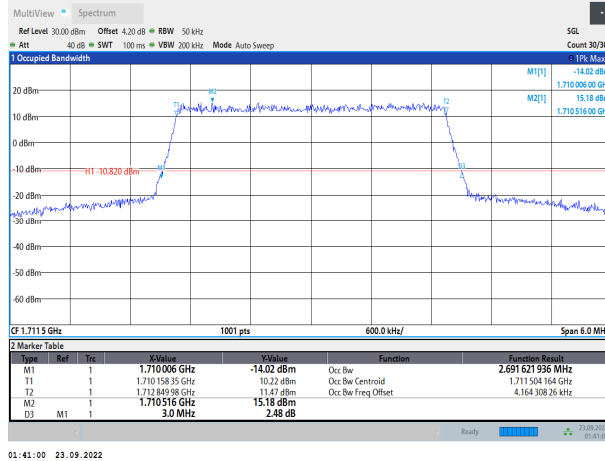


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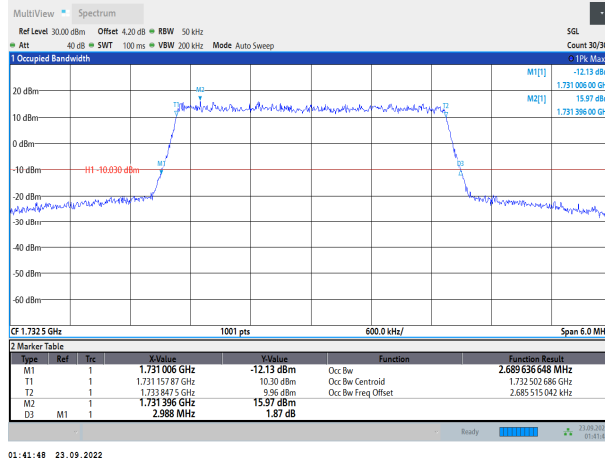
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Band4-3MHz-16QAM-19965-15RB#0



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

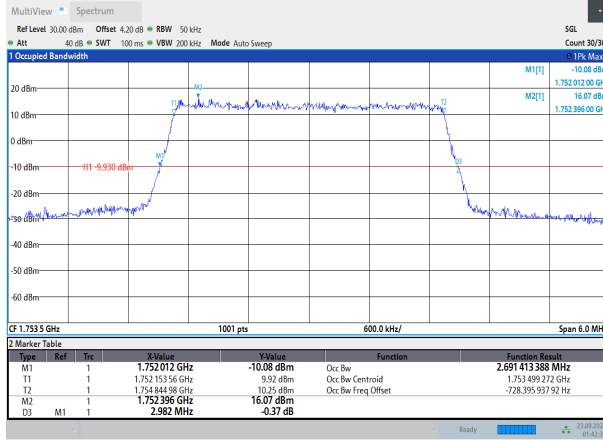


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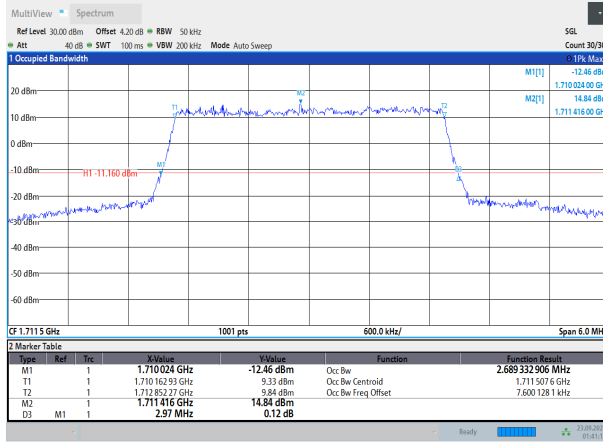
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Band4-3MHz-16QAM-20385-15RB#0



Band4-3MHz-64QAM-19965-15RB#0

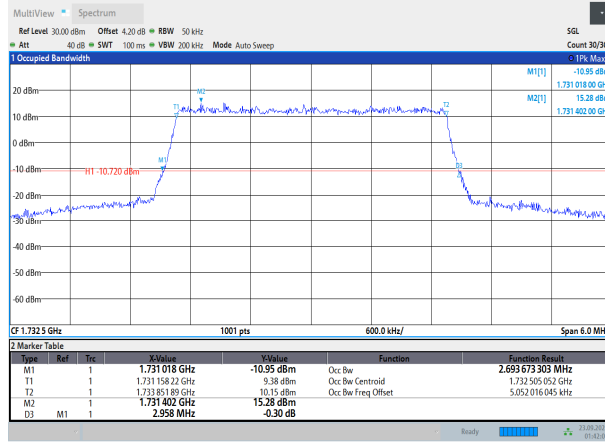


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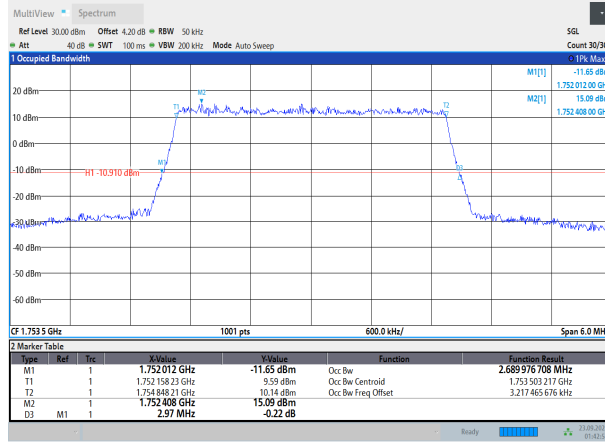
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Band4-3MHz-64QAM-20175-15RB#0



01:42:05 23.09.2022

Band4-3MHz-64QAM-20385-15RB#0



01:42:53 23.09.2022



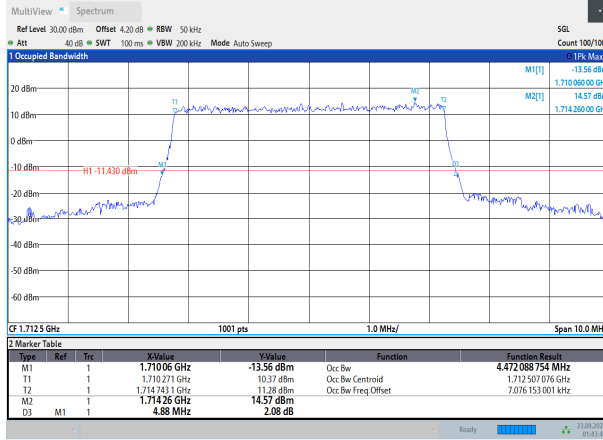
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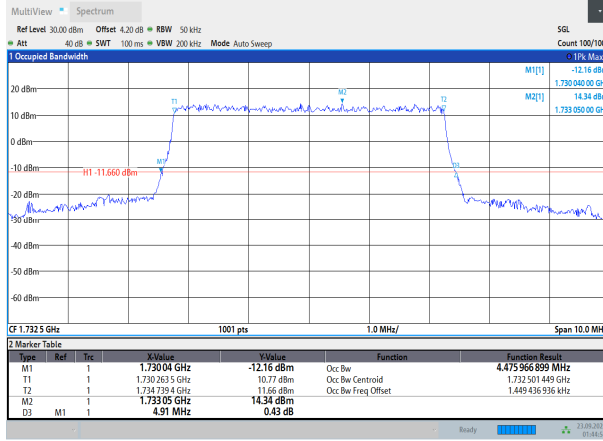


Band4-5MHz-QPSK-19975-25RB#0



01:43:45 23.09.2022

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01:44:55 23.09.2022

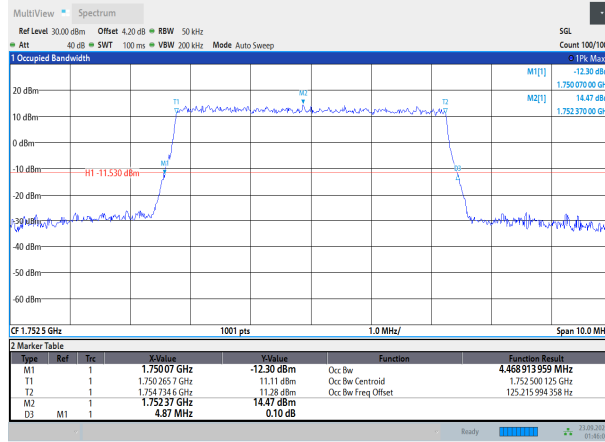


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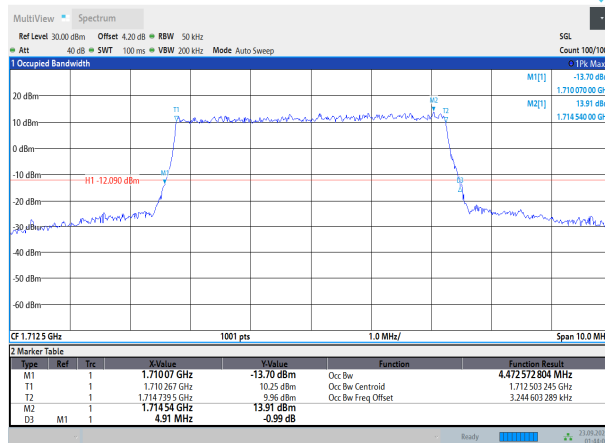
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Band4-5MHz-QPSK-20375-25RB#0



01:46:04 23.09.2022

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



01:44:08 23.09.2022

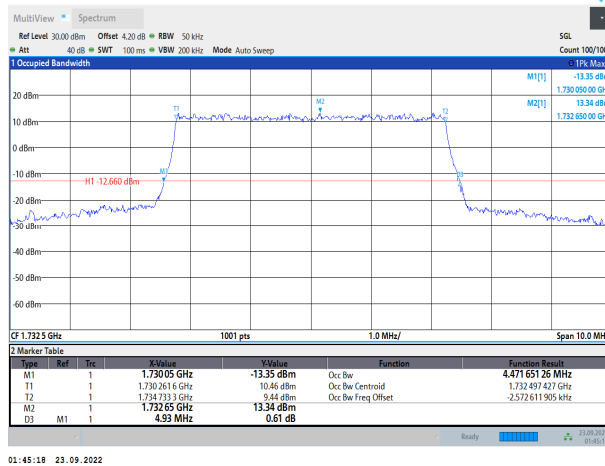


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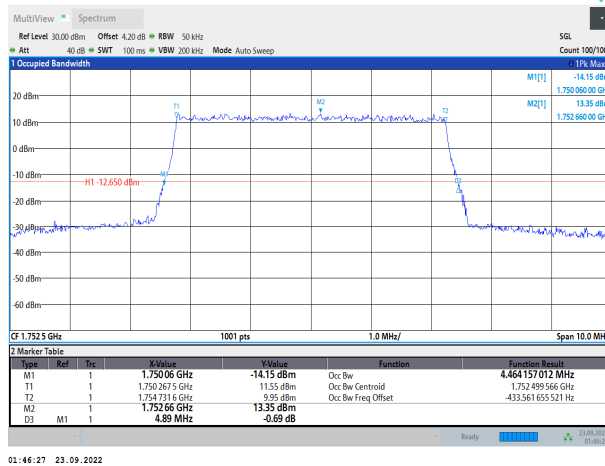
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Band4-5MHz-16QAM-20175-25RB#0



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

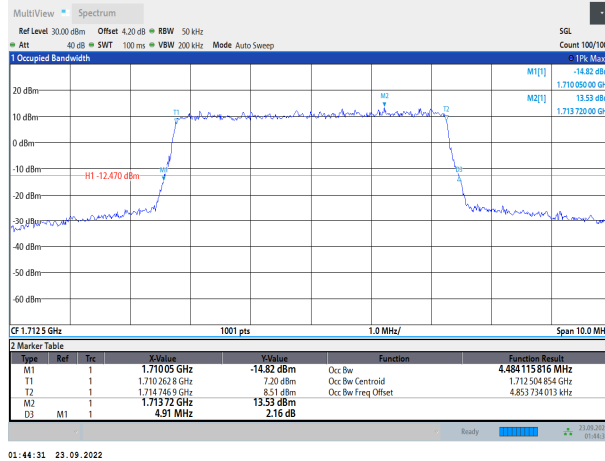


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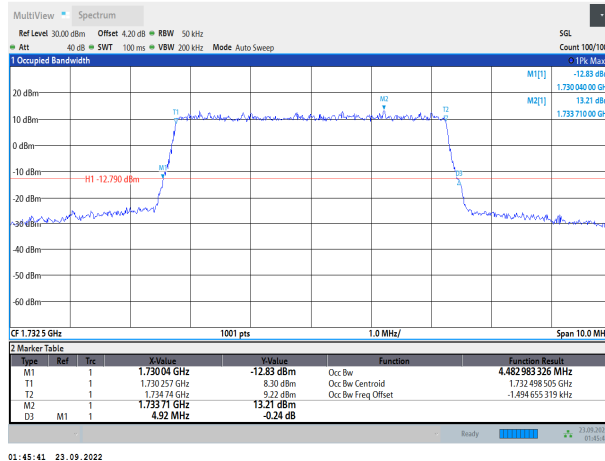
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Band4-5MHz-64QAM-19975-25RB#0



01:44:31 23.09.2022

Band4-5MHz-64QAM-20175-25RB#0



01:45:41 23.09.2022

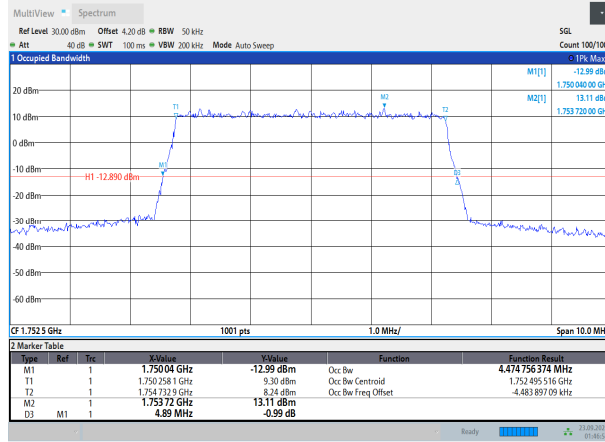


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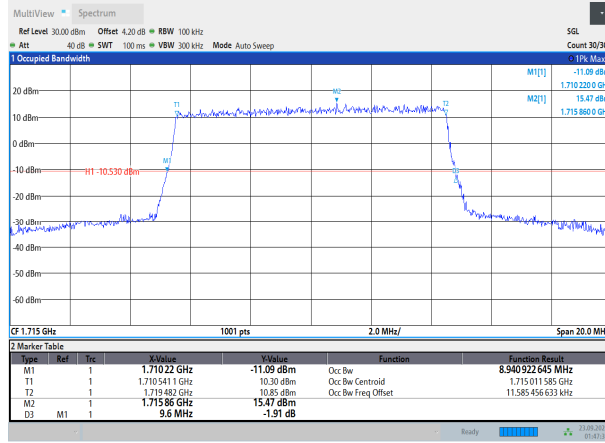
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Band4-5MHz-64QAM-20375-25RB#0



01:46:51 23.09.2022

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



01:47:36 23.09.2022

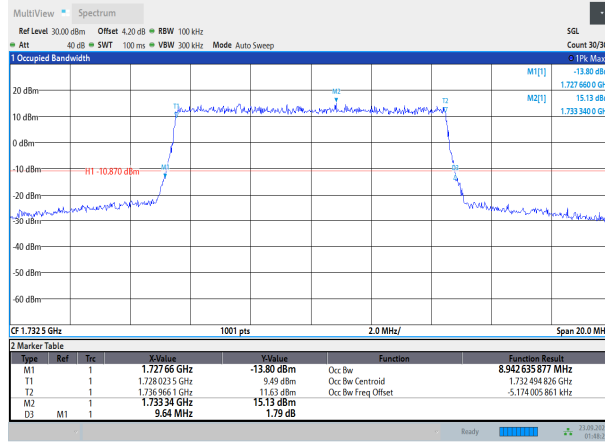


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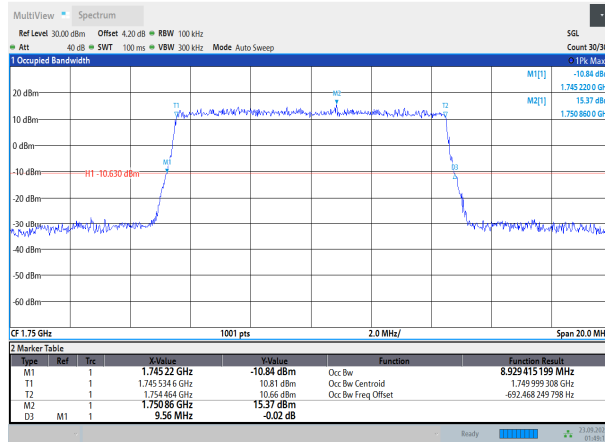
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Band4-10MHz-QPSK-20175-50RB#0



01:48:25 23.09.2022

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



01:49:13 23.09.2022



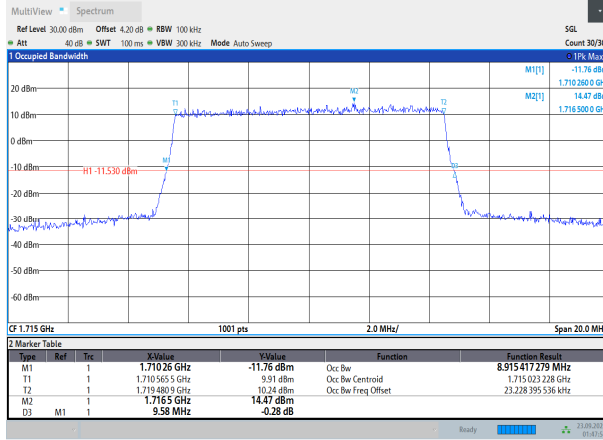
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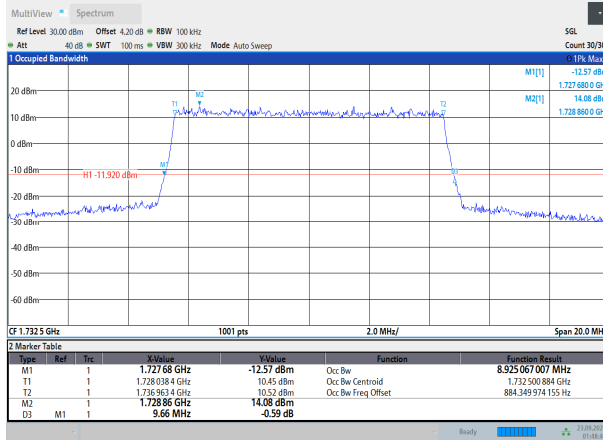


Band4-10MHz-16QAM-20000-50RB#0



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



01:48:41 23.09.2022

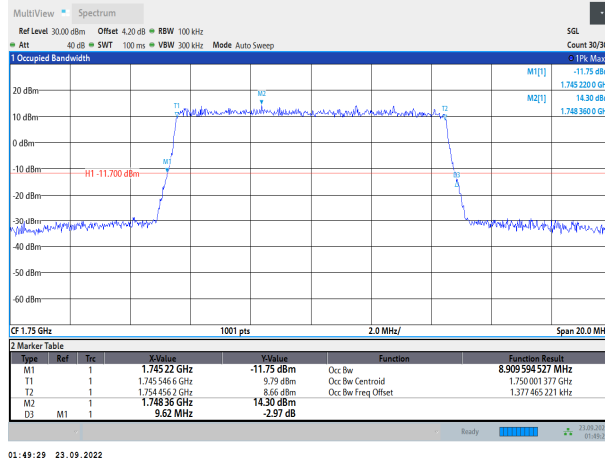


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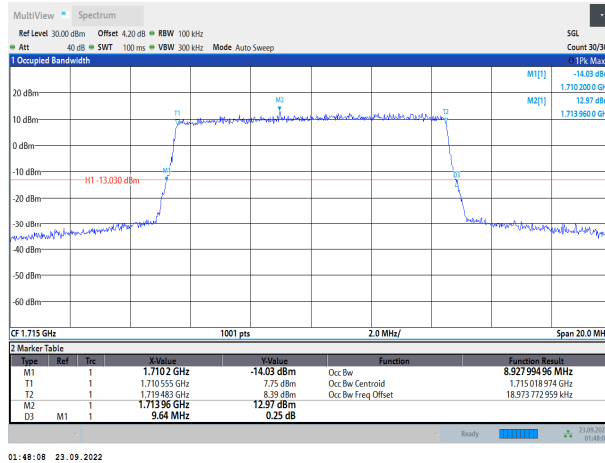
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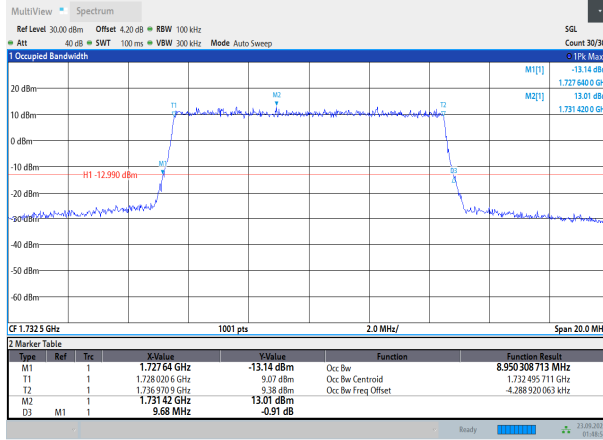


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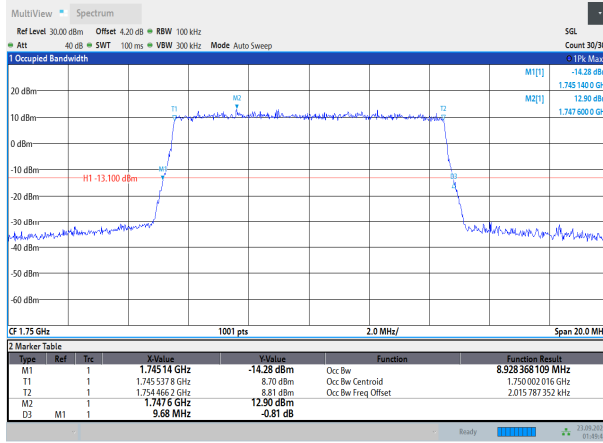
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Band4-10MHz-64QAM-20175-50RB#0



Band4-10MHz-64QAM-20350-50RB#0

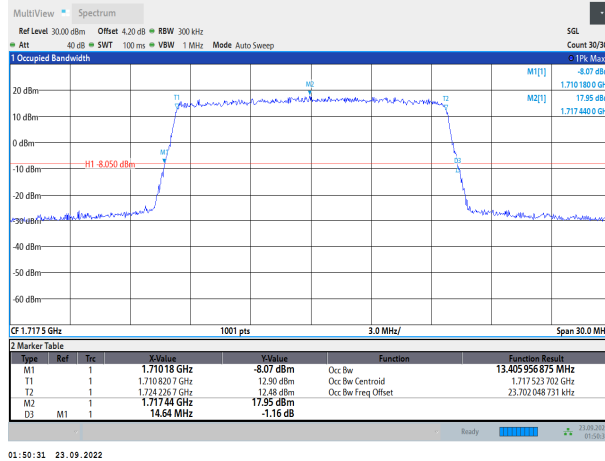


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Band4-15MHz-QPSK-20025-75RB#0



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

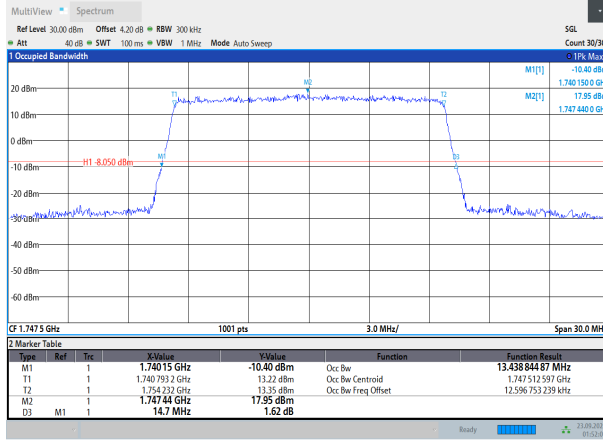


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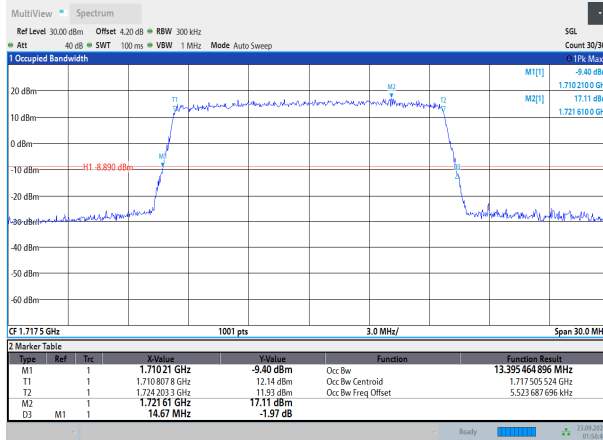
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Band4-15MHz-QPSK-20325-75RB#0



01:52:08 23.09.2022

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



01:50:47 23.09.2022

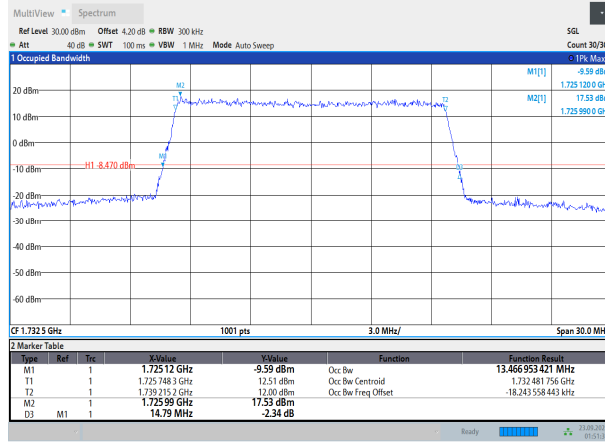


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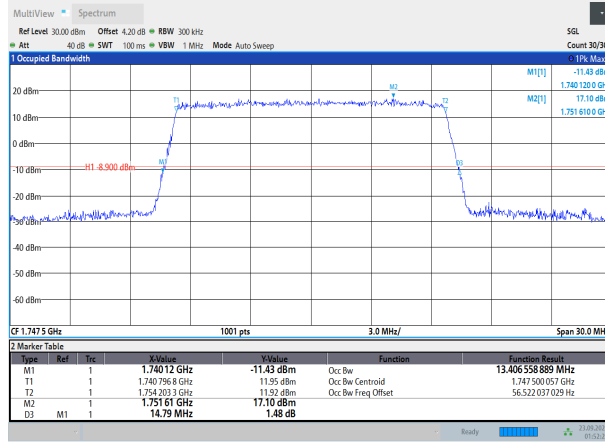
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Band4-15MHz-16QAM-20175-75RB#0



01:51:35 23.09.2022

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



01:52:24 23.09.2022



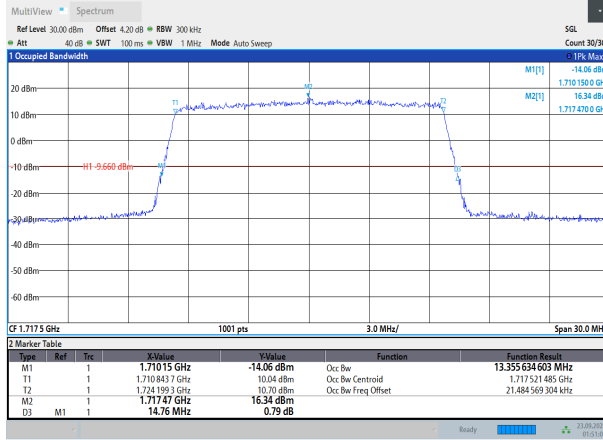
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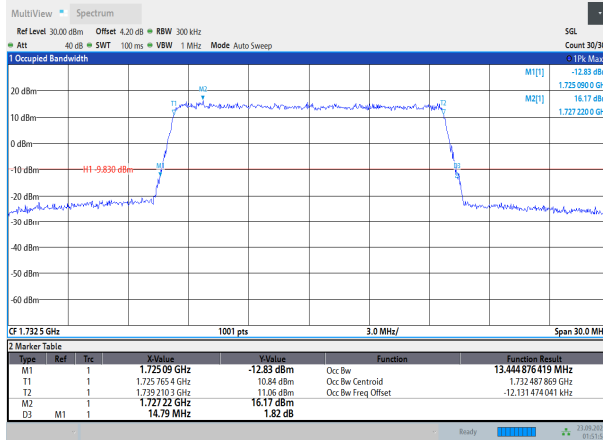


Band4-15MHz-64QAM-20025-75RB#0



01:51:03 23.09.2022

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01:51:51 23.09.2022

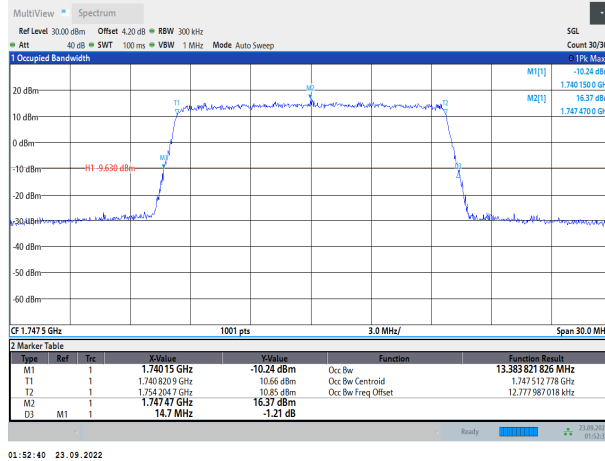


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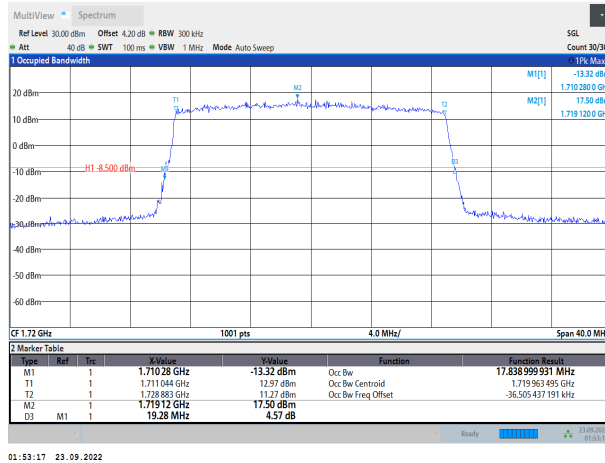
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Band4-15MHz-64QAM-20325-75RB#0



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

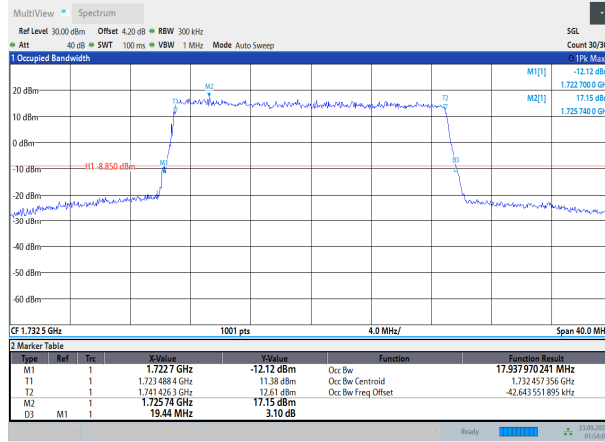


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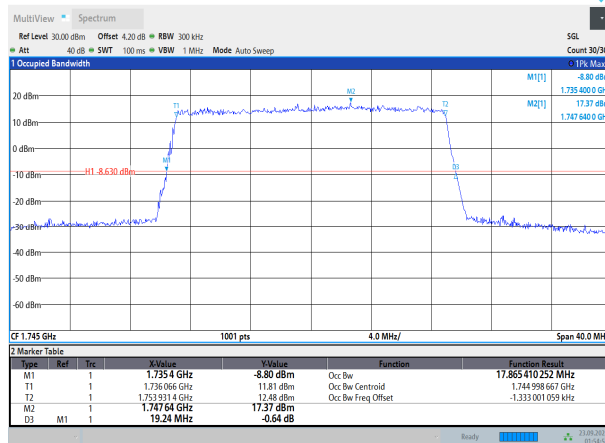
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Band4-20MHz-QPSK-20175-100RB#0



01:54:06 23.09.2022

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



01:54:54 23.09.2022

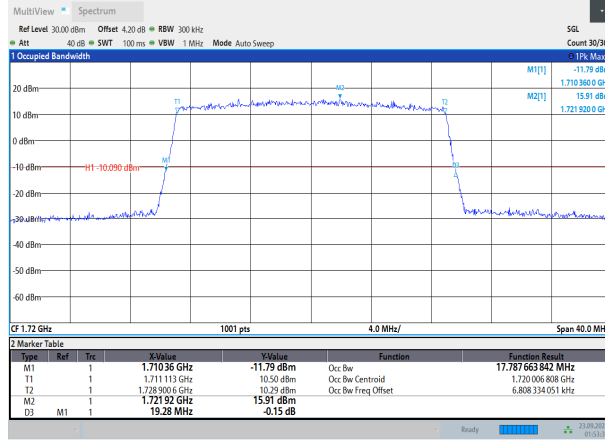


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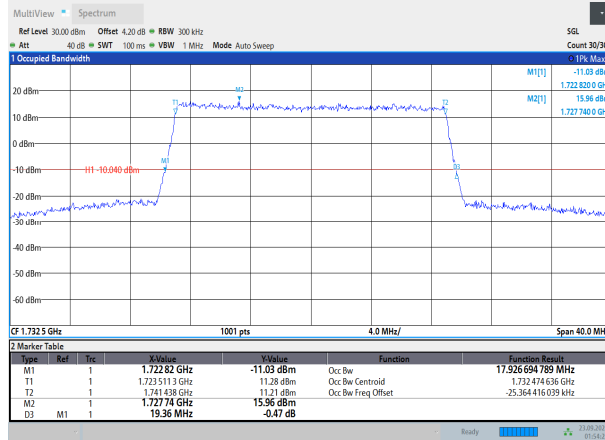
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Band4-20MHz-16QAM-20050-100RB#0



01:53:33 23.09.2022

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01:54:22 23.09.2022

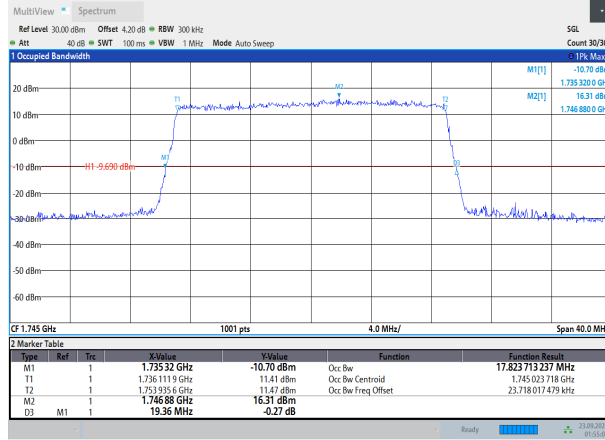


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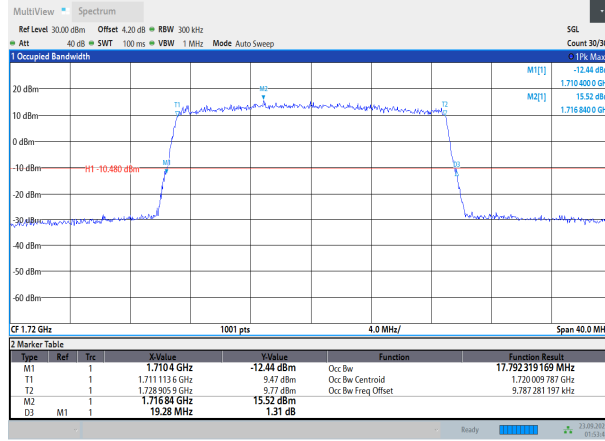
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01:55:10 23.09.2022

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



01:53:49 23.09.2022

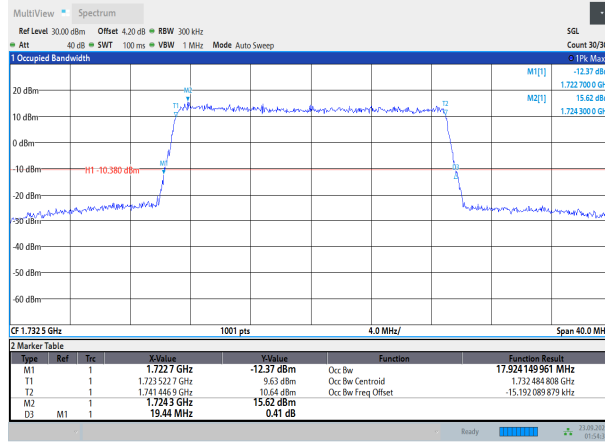


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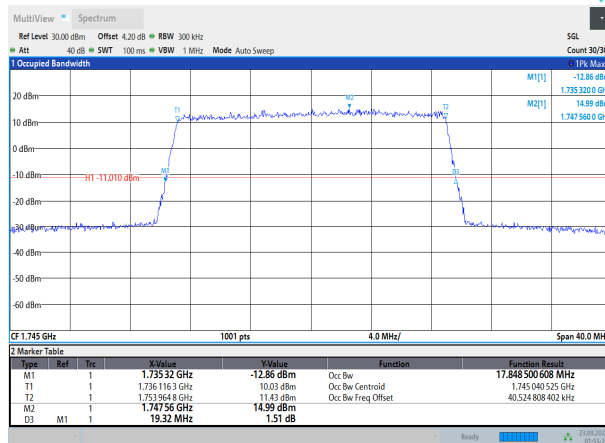
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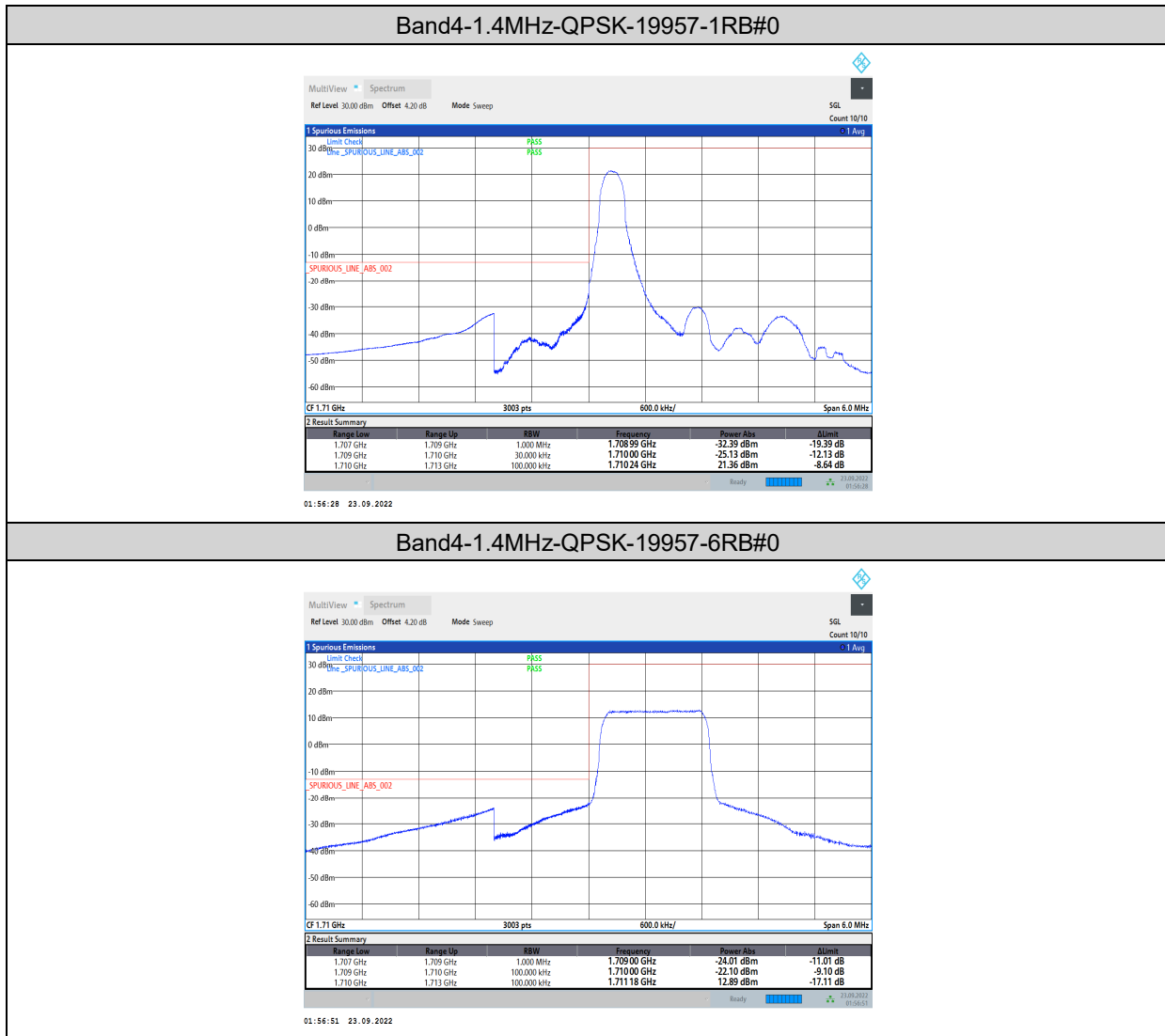
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## Band Edge

## Test Graphs

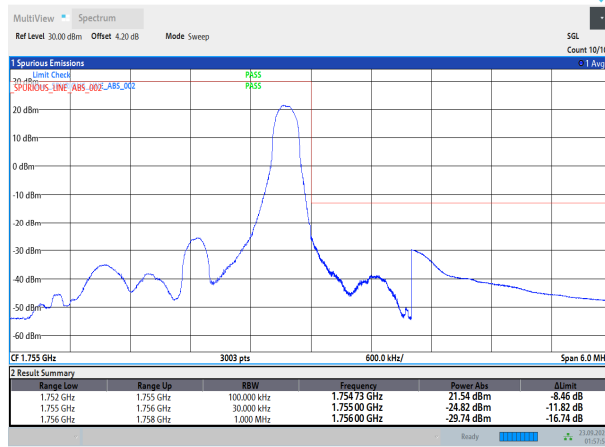


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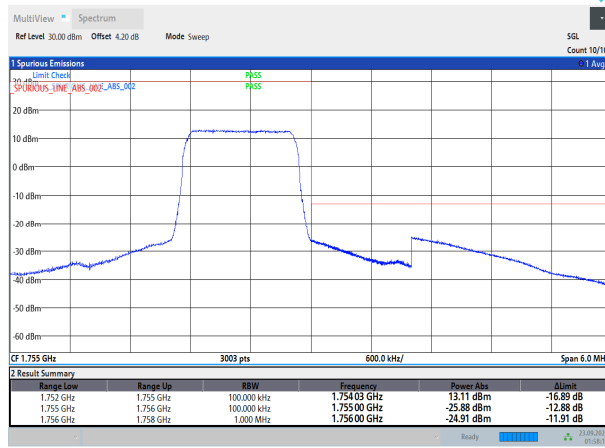
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Band4-1.4MHz-QPSK-20393-1RB#5



01:57:53 23.09.2022

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



01:58:16 23.09.2022

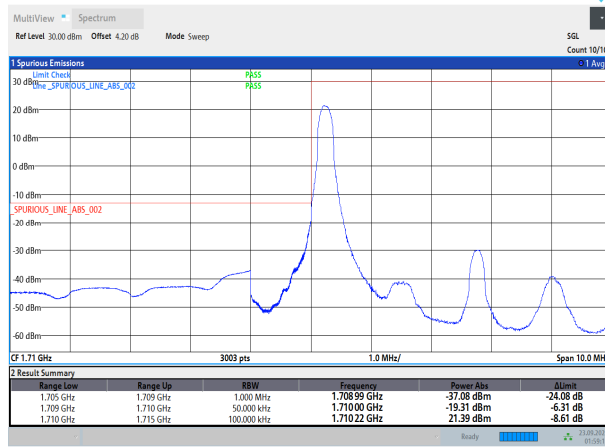


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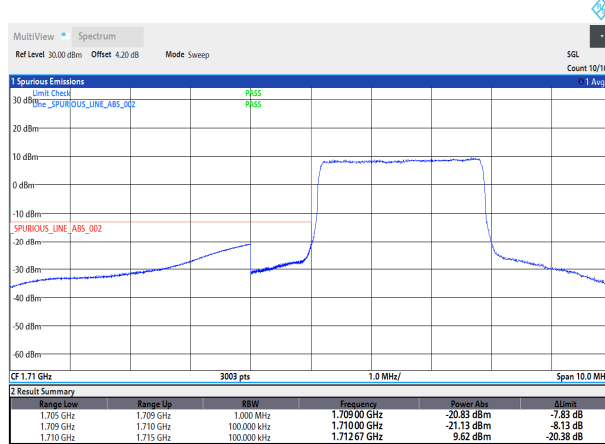
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Band4-3MHz-QPSK-19965-1RB#0



01:59:19 23. 09. 2022

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



01:59:42 23. 09. 2022

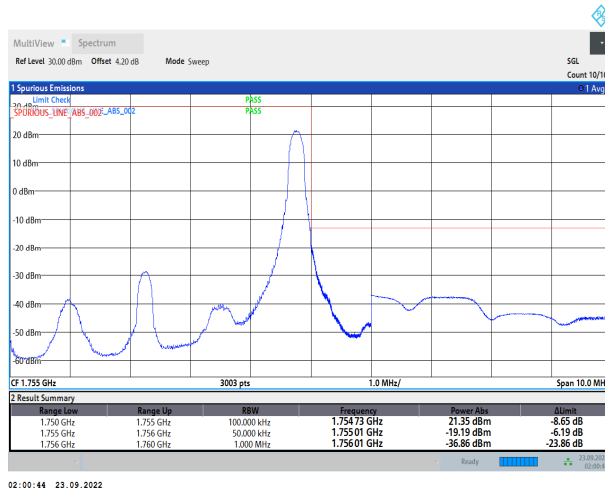


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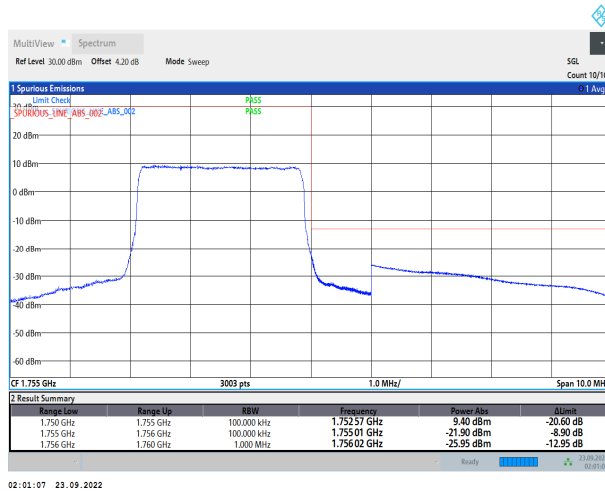
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Band4-3MHz-QPSK-20385-1RB#14



02:00:44 23.09.2022

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



02:01:07 23.09.2022

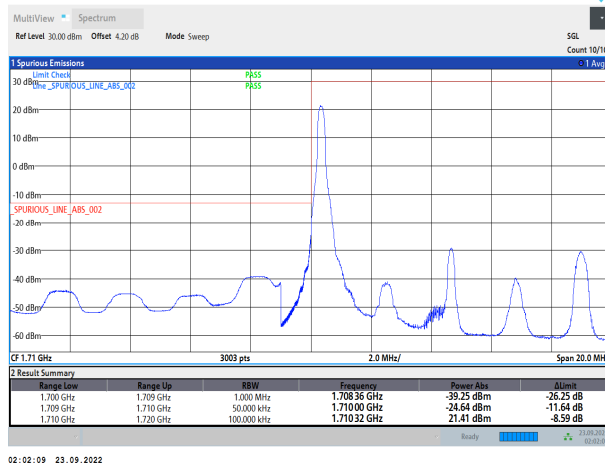


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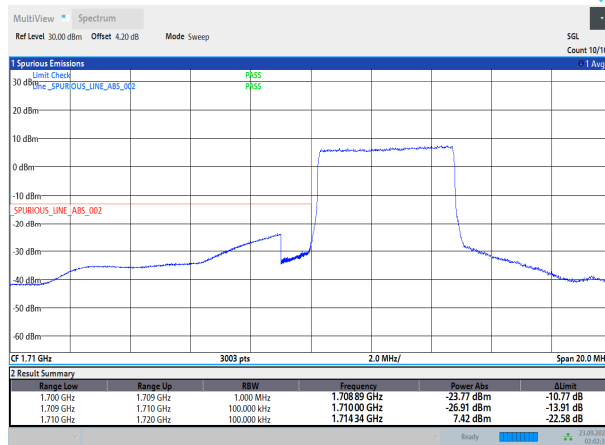
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Band4-5MHz-QPSK-19975-1RB#0



02:02:09 23.09.2022

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



02:02:32 23.09.2022

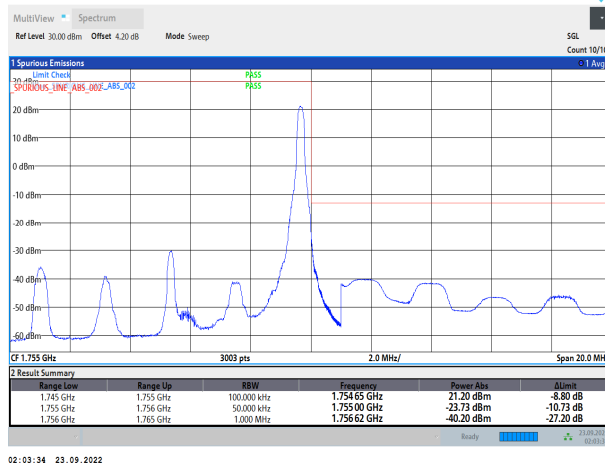


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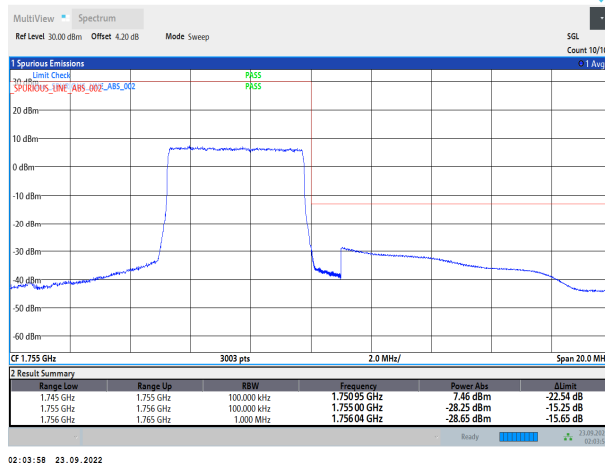
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Band4-5MHz-QPSK-20375-1RB#24



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



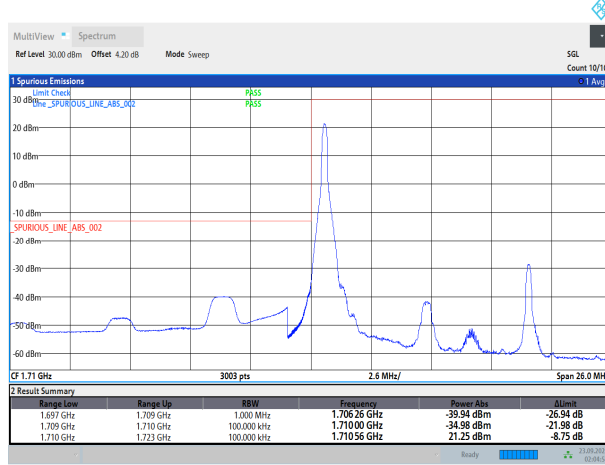
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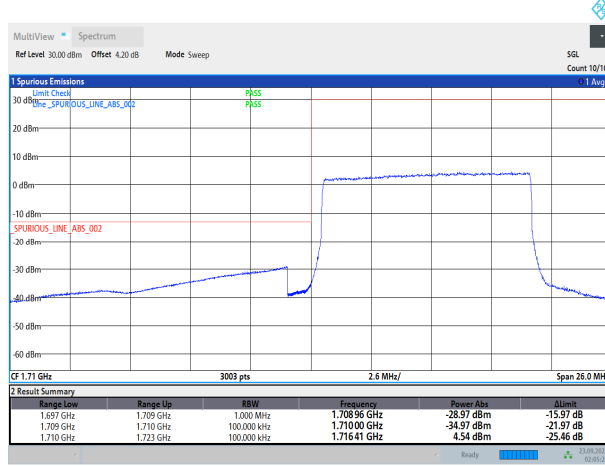
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Band4-10MHz-QPSK-20000-1RB#0



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

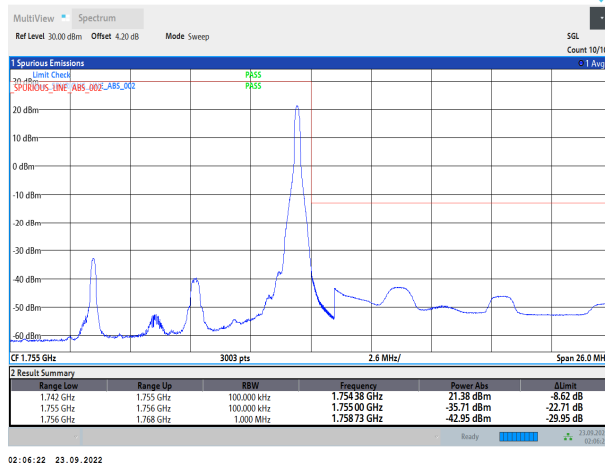


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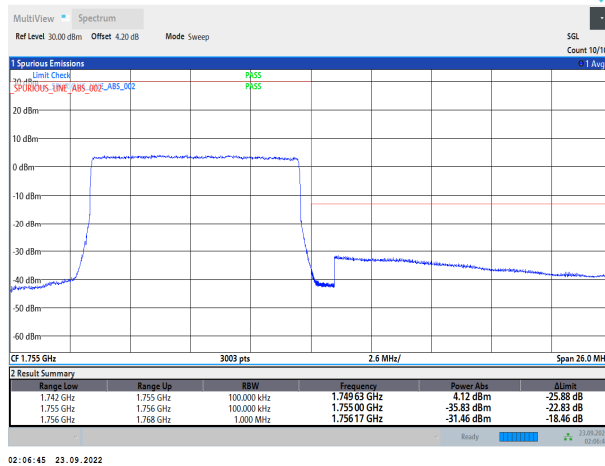
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Band4-10MHz-QPSK-20350-1RB#49



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

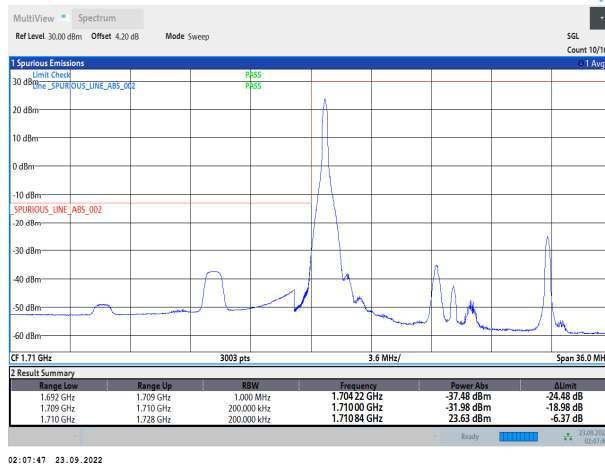


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Band4-15MHz-QPSK-20025-1RB#0



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

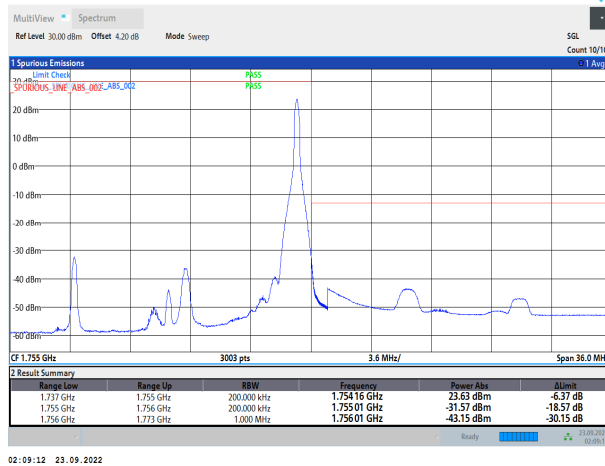


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Band4-15MHz-QPSK-20325-1RB#74



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

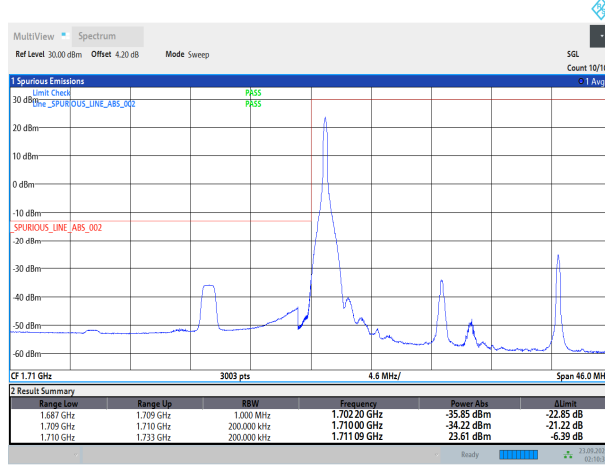


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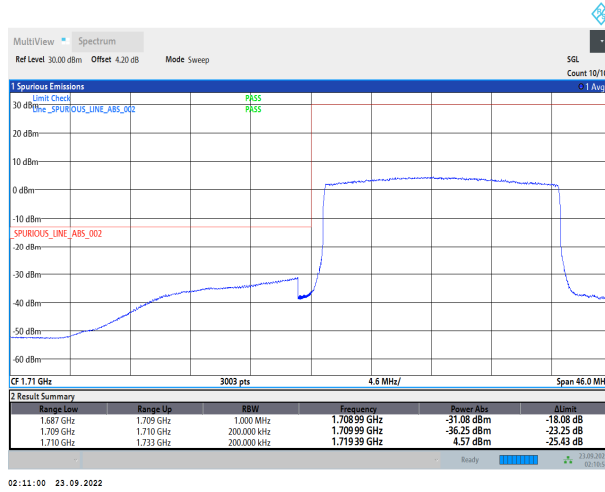
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Band4-20MHz-QPSK-20050-1RB#0



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

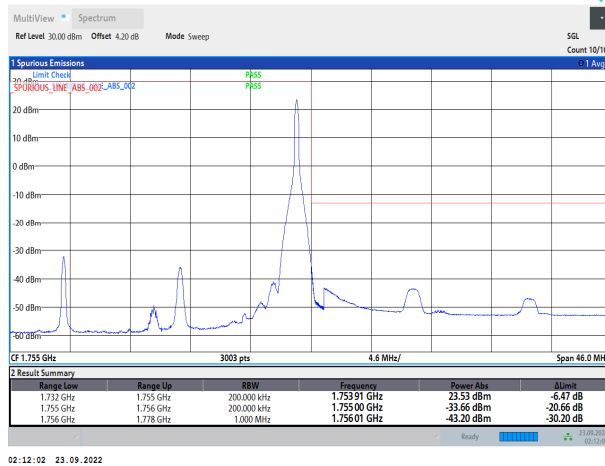


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Band4-20MHz-QPSK-20300-1RB#99



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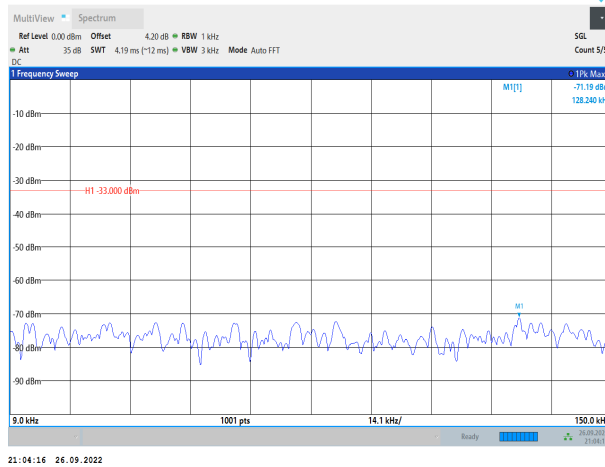
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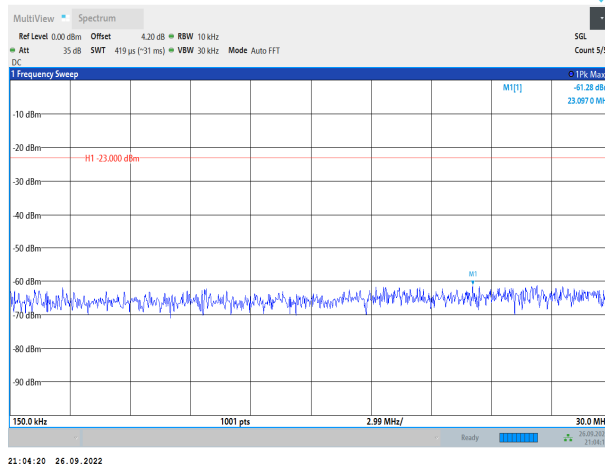
## Conducted Spurious Emission

### Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz

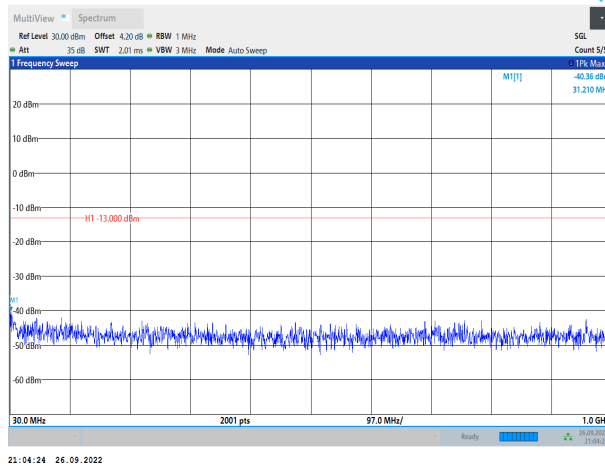


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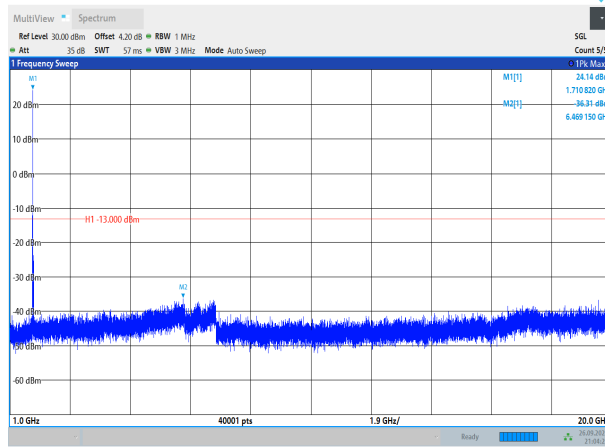
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



21:04:24 26.09.2022

Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



21:04:29 26.09.2022

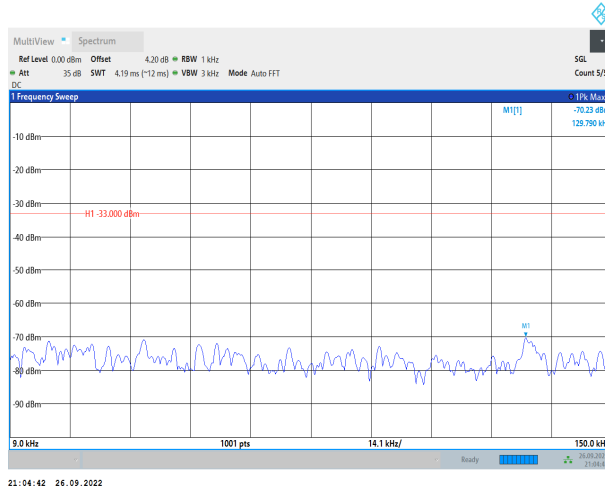


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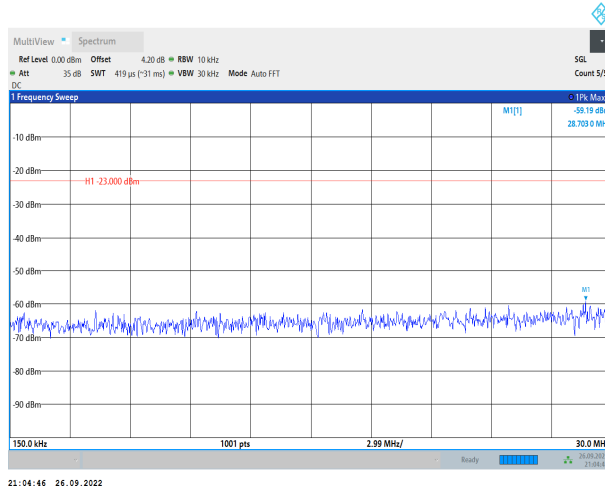
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



21:04:42 26.09.2022

Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



21:04:46 26.09.2022

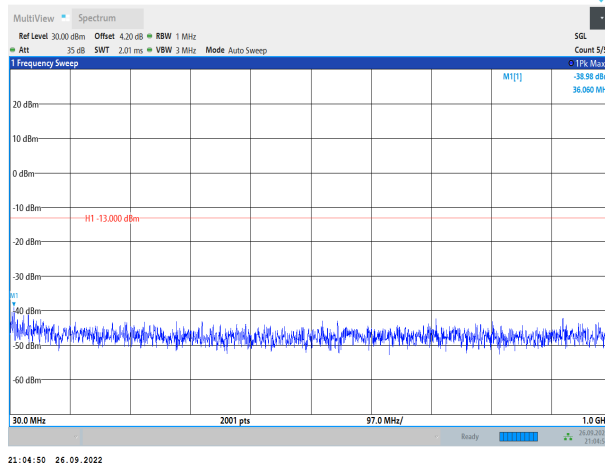


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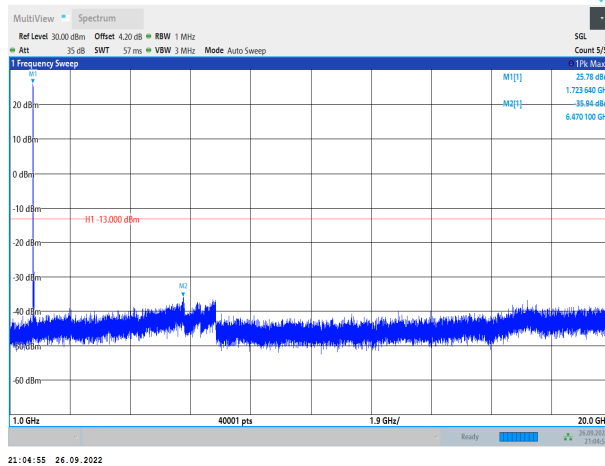
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz

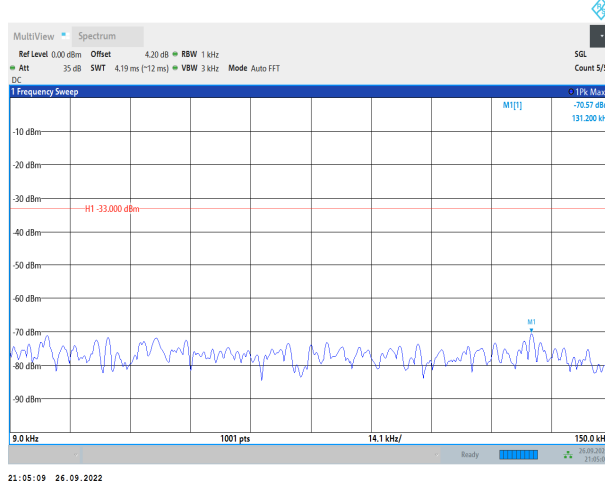


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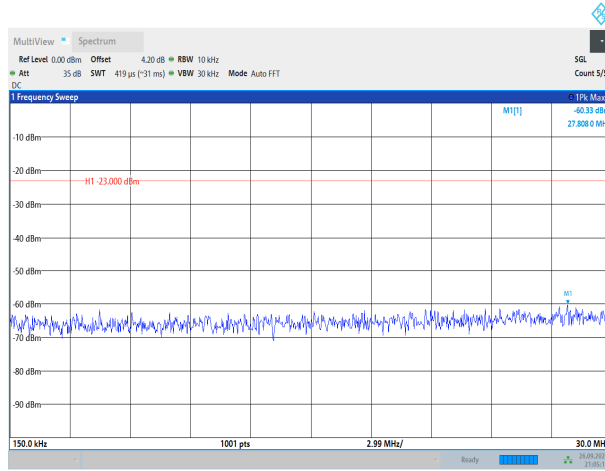
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



21:05:09 26.09.2022

Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



21:05:13 26.09.2022

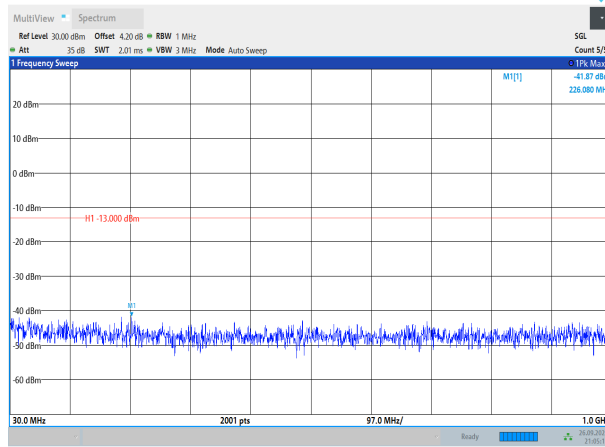


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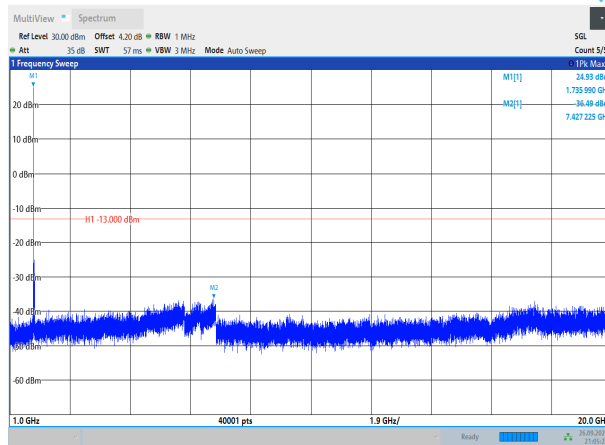
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



21:05:17 26.09.2022

Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



21:05:21 26.09.2022



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## Field Strength of Spurious Radiation

Test Band = LTE Band 4\_ TM1

Test Channel = Low

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3422.1800       | 66.04          | -46.28      | 29.45    | -46.05      | -13.00      | 33.05       | 163         | 335       | Horizontal |
| 2               | 5133.2700       | 51.50          | -45.34      | 32.95    | -56.15      | -13.00      | 43.15       | 157         | 304       | Horizontal |
| 3               | 6844.3600       | 49.96          | -44.14      | 35.89    | -53.55      | -13.00      | 40.55       | 142         | 359       | Horizontal |
| 4               | 8555.4500       | 43.27          | -41.46      | 37.66    | -55.79      | -13.00      | 42.79       | 159         | 61        | Horizontal |
| 5               | 10266.5400      | 35.15          | -39.23      | 38.83    | -60.51      | -13.00      | 47.51       | 227         | 360       | Horizontal |
| 6               | 11977.6300      | 30.81          | -37.51      | 38.95    | -63.02      | -13.00      | 50.02       | 268         | 46        | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3422.1800       | 62.64          | -46.28      | 29.45    | -49.45      | -13.00      | 36.45       | 169         | 257       | Vertical |
| 2               | 5133.2700       | 48.26          | -45.34      | 32.95    | -59.39      | -13.00      | 46.39       | 127         | 288       | Vertical |
| 3               | 6844.3600       | 56.75          | -44.14      | 35.89    | -46.76      | -13.00      | 33.76       | 225         | 243       | Vertical |
| 4               | 8555.4500       | 46.56          | -41.46      | 37.66    | -52.50      | -13.00      | 39.50       | 186         | 257       | Vertical |
| 5               | 10266.5400      | 36.92          | -39.23      | 38.83    | -58.74      | -13.00      | 45.74       | 194         | 91        | Vertical |
| 6               | 11977.6300      | 31.31          | -37.51      | 38.95    | -62.52      | -13.00      | 49.52       | 117         | 359       | Vertical |



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**Test Band = LTE Band 4\_ TM1**

**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3447.1800       | 61.01          | -46.27      | 29.47    | -51.05      | -13.00      | 38.05       | 139         | 77        | Horizontal |
| 2               | 5170.7700       | 61.27          | -45.31      | 32.97    | -46.32      | -13.00      | 33.32       | 162         | 62        | Horizontal |
| 3               | 6894.3600       | 46.53          | -44.10      | 35.95    | -56.88      | -13.00      | 43.88       | 153         | 348       | Horizontal |
| 4               | 8617.9500       | 40.94          | -41.40      | 37.78    | -57.94      | -13.00      | 44.94       | 172         | 108       | Horizontal |
| 5               | 10341.5400      | 34.80          | -39.06      | 38.85    | -60.67      | -13.00      | 47.67       | 224         | 262       | Horizontal |
| 6               | 12065.1300      | 31.33          | -37.44      | 39.02    | -62.35      | -13.00      | 49.35       | 263         | 307       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3447.1800       | 56.01          | -46.27      | 29.47    | -56.05      | -13.00      | 43.05       | 153         | 274       | Vertical |
| 2               | 5170.7700       | 52.67          | -45.31      | 32.97    | -54.92      | -13.00      | 41.92       | 172         | 228       | Vertical |
| 3               | 6894.3600       | 52.39          | -44.10      | 35.95    | -51.02      | -13.00      | 38.02       | 161         | 274       | Vertical |
| 4               | 8617.9500       | 42.46          | -41.40      | 37.78    | -56.42      | -13.00      | 43.42       | 189         | 108       | Vertical |
| 5               | 10341.5400      | 34.94          | -39.06      | 38.85    | -60.53      | -13.00      | 47.53       | 227         | 182       | Vertical |
| 6               | 12065.1300      | 32.30          | -37.44      | 39.02    | -61.38      | -13.00      | 48.38       | 263         | 4         | Vertical |



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**Test Band = LTE Band 4\_ TM1**
**Test Channel = High**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3472.1800       | 70.68          | -46.27      | 29.50    | -41.35      | -13.00      | 28.35       | 132         | 289       | Horizontal |
| 2               | 5208.2700       | 48.26          | -45.26      | 32.98    | -59.28      | -13.00      | 46.28       | 162         | 275       | Horizontal |
| 3               | 6944.3600       | 49.23          | -43.85      | 36.01    | -53.87      | -13.00      | 40.87       | 157         | 358       | Horizontal |
| 4               | 8680.4500       | 41.73          | -41.62      | 37.88    | -57.27      | -13.00      | 44.27       | 169         | 3         | Horizontal |
| 5               | 10416.5400      | 34.07          | -38.97      | 38.88    | -61.29      | -13.00      | 48.29       | 225         | 275       | Horizontal |
| 6               | 12152.6300      | 31.62          | -37.42      | 39.09    | -61.97      | -13.00      | 48.97       | 267         | 242       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3472.1800       | 63.21          | -46.27      | 29.50    | -48.82      | -13.00      | 35.82       | 169         | 61        | Vertical |
| 2               | 5208.2700       | 50.53          | -45.26      | 32.98    | -57.01      | -13.00      | 44.01       | 215         | 289       | Vertical |
| 3               | 6944.3600       | 56.89          | -43.85      | 36.01    | -46.21      | -13.00      | 33.21       | 223         | 275       | Vertical |
| 4               | 8680.4500       | 47.06          | -41.62      | 37.88    | -51.94      | -13.00      | 38.94       | 271         | 261       | Vertical |
| 5               | 10416.5400      | 36.32          | -38.97      | 38.88    | -59.04      | -13.00      | 46.04       | 254         | 360       | Vertical |
| 6               | 12152.6300      | 31.65          | -37.42      | 39.09    | -61.94      | -13.00      | 48.94       | 231         | 354       | Vertical |

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn  
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

## Frequency Stability

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VL            | NT               | 12.00          | 0.006926        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VN            | NT               | 2.40           | 0.001385        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VH            | NT               | 5.20           | 0.003001        | PASS    |

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -30              | 1.30           | 0.000750        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -20              | 3.70           | 0.002136        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -10              | 10.00          | 0.005772        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 0                | -4.10          | -0.002367       | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 10               | -2.10          | -0.001212       | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 20               | 3.70           | 0.002136        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 30               | 4.80           | 0.002771        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 40               | 11.80          | 0.006811        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 50               | 10.80          | 0.006234        | PASS    |

---End of Attachment---



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