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# 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            | 22.46       | 24.46      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#2            | 22.39       | 24.39      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#5            | 22.5        | 24.5       | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 21.43       | 23.43      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#0            | 22.79       | 24.79      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#2            | 22.92       | 24.92      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#5            | 22.83       | 24.83      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 21.75       | 23.75      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#0            | 22.57       | 24.57      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#2            | 22.77       | 24.77      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#5            | 22.66       | 24.66      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 21.68       | 23.68      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#0            | 21.45       | 23.45      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#2            | 21.14       | 23.14      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#5            | 21.34       | 23.34      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 20.47       | 22.47      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#0            | 21.25       | 23.25      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#2            | 21.29       | 23.29      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#5            | 21.33       | 23.33      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 20.8        | 22.8       | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#0            | 21.78       | 23.78      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#2            | 21.69       | 23.69      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#5            | 21.16       | 23.16      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 20.79       | 22.79      | 30          | PASS    |
| Band4 | 1.4MHz    | 64QAM      | 19957   | 1RB#0            | 20.75       | 22.75      | 30          | PASS    |
| Band4 | 1.4MHz    | 64QAM      | 19957   | 1RB#2            | 20.76       | 22.76      | 30          | PASS    |
| Band4 | 1.4MHz    | 64QAM      | 19957   | 1RB#5            | 20.77       | 22.77      | 30          | PASS    |



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|-------|--------|-------|-------|--------|-------|-------|----|------|
| Band4 | 1.4MHz | 64QAM | 19957 | 6RB#0  | 19.49 | 21.49 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#0  | 20.47 | 22.47 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#2  | 20.88 | 22.88 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#5  | 20.48 | 22.48 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 6RB#0  | 19.7  | 21.7  | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#0  | 20.47 | 22.47 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#2  | 20.74 | 22.74 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#5  | 21.05 | 23.05 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 6RB#0  | 19.6  | 21.6  | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#0  | 22.84 | 24.84 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#8  | 22.41 | 24.41 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#14 | 22.56 | 24.56 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0 | 21.55 | 23.55 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#0  | 22.69 | 24.69 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#8  | 22.61 | 24.61 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#14 | 22.79 | 24.79 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0 | 21.78 | 23.78 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#0  | 22.87 | 24.87 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#8  | 22.48 | 24.48 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#14 | 22.75 | 24.75 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 15RB#0 | 21.7  | 23.7  | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 1RB#0  | 21.07 | 23.07 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 1RB#8  | 21.18 | 23.18 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 1RB#14 | 21.52 | 23.52 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 15RB#0 | 20.55 | 22.55 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 1RB#0  | 21.24 | 23.24 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 1RB#8  | 21.08 | 23.08 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 1RB#14 | 21.1  | 23.1  | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 15RB#0 | 20.85 | 22.85 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 20385 | 1RB#0  | 21.56 | 23.56 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 20385 | 1RB#8  | 21.22 | 23.22 | 30 | PASS |
| Band4 | 3MHz   | 16QAM | 20385 | 1RB#14 | 21.36 | 23.36 | 30 | PASS |



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| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | 20.77 | 22.77 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 1RB#0  | 20.29 | 22.29 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 1RB#8  | 20.27 | 22.27 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 1RB#14 | 20.64 | 22.64 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 15RB#0 | 19.76 | 21.76 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 1RB#0  | 20.99 | 22.99 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 1RB#8  | 20.69 | 22.69 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 1RB#14 | 20.7  | 22.7  | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 15RB#0 | 19.73 | 21.73 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 1RB#0  | 20.71 | 22.71 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 1RB#8  | 20.59 | 22.59 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 1RB#14 | 20.87 | 22.87 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 15RB#0 | 19.78 | 21.78 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#0  | 22.68 | 24.68 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#12 | 22.57 | 24.57 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#24 | 22.29 | 24.29 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0 | 21.57 | 23.57 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#0  | 22.67 | 24.67 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#12 | 22.8  | 24.8  | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#24 | 22.7  | 24.7  | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0 | 21.67 | 23.67 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#0  | 22.66 | 24.66 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#12 | 22.73 | 24.73 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#24 | 22.62 | 24.62 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 25RB#0 | 21.74 | 23.74 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#0  | 21.22 | 23.22 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#12 | 21.7  | 23.7  | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#24 | 20.96 | 22.96 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | 20.66 | 22.66 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#0  | 21.19 | 23.19 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#12 | 21.95 | 23.95 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#24 | 21.68 | 23.68 | 30 | PASS |



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| Band4 | 5MHz  | 16QAM | 20175 | 25RB#0 | 20.85 | 22.85 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#0  | 21.81 | 23.81 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#12 | 21.5  | 23.5  | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#24 | 21.43 | 23.43 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 25RB#0 | 20.83 | 22.83 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 19975 | 1RB#0  | 20.56 | 22.56 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 19975 | 1RB#12 | 20.76 | 22.76 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 19975 | 1RB#24 | 20.21 | 22.21 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 19975 | 25RB#0 | 19.44 | 21.44 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20175 | 1RB#0  | 21.07 | 23.07 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20175 | 1RB#12 | 20.81 | 22.81 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20175 | 1RB#24 | 20.66 | 22.66 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20175 | 25RB#0 | 19.96 | 21.96 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20375 | 1RB#0  | 20.82 | 22.82 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20375 | 1RB#12 | 20.74 | 22.74 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20375 | 1RB#24 | 20.89 | 22.89 | 30 | PASS |
| Band4 | 5MHz  | 64QAM | 20375 | 25RB#0 | 19.9  | 21.9  | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#0  | 22.72 | 24.72 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#24 | 22.76 | 24.76 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#49 | 22.64 | 24.64 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0 | 21.58 | 23.58 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#0  | 22.64 | 24.64 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#24 | 23.01 | 25.01 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#49 | 22.64 | 24.64 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0 | 21.67 | 23.67 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#0  | 22.6  | 24.6  | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#24 | 22.82 | 24.82 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#49 | 22.79 | 24.79 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0 | 21.78 | 23.78 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#0  | 21.32 | 23.32 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#24 | 21.48 | 23.48 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#49 | 21.88 | 23.88 | 30 | PASS |



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| Band4 | 10MHz | 16QAM | 20000 | 50RB#0 | 20.47 | 22.47 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#0  | 21.45 | 23.45 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#24 | 21.24 | 23.24 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#49 | 21.34 | 23.34 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0 | 20.75 | 22.75 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#0  | 21.03 | 23.03 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#24 | 21.71 | 23.71 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#49 | 21.3  | 23.3  | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0 | 20.85 | 22.85 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 1RB#0  | 20.27 | 22.27 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 1RB#24 | 20.54 | 22.54 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 1RB#49 | 20.42 | 22.42 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 50RB#0 | 19.59 | 21.59 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 1RB#0  | 20.78 | 22.78 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 1RB#24 | 20.99 | 22.99 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 1RB#49 | 20.86 | 22.86 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 50RB#0 | 19.76 | 21.76 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 1RB#0  | 20.28 | 22.28 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 1RB#24 | 20.67 | 22.67 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 1RB#49 | 20.58 | 22.58 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 50RB#0 | 19.84 | 21.84 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#0  | 22.63 | 24.63 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#38 | 22.72 | 24.72 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#74 | 22.71 | 24.71 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0 | 21.59 | 23.59 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#0  | 22.4  | 24.4  | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#38 | 22.87 | 24.87 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#74 | 22.55 | 24.55 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 75RB#0 | 21.75 | 23.75 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#0  | 22.26 | 24.26 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#38 | 22.76 | 24.76 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#74 | 22.73 | 24.73 | 30 | PASS |



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|       |       |       |       |         |       |       |    |      |
|-------|-------|-------|-------|---------|-------|-------|----|------|
| Band4 | 15MHz | QPSK  | 20325 | 75RB#0  | 21.69 | 23.69 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#0   | 21.64 | 23.64 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#38  | 21.82 | 23.82 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#74  | 21.86 | 23.86 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0  | 20.56 | 22.56 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#0   | 21.25 | 23.25 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#38  | 21.14 | 23.14 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#74  | 21.07 | 23.07 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0  | 20.69 | 22.69 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#0   | 21.55 | 23.55 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#38  | 21.12 | 23.12 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#74  | 21.62 | 23.62 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0  | 20.75 | 22.75 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 1RB#0   | 20.67 | 22.67 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 1RB#38  | 20.51 | 22.51 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 1RB#74  | 20.82 | 22.82 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 75RB#0  | 19.56 | 21.56 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#0   | 20.78 | 22.78 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#38  | 20.92 | 22.92 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#74  | 20.38 | 22.38 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 75RB#0  | 19.59 | 21.59 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#0   | 20.26 | 22.26 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#38  | 20.9  | 22.9  | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#74  | 20.52 | 22.52 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 75RB#0  | 19.65 | 21.65 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#0   | 22.54 | 24.54 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#49  | 22.59 | 24.59 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#99  | 22.91 | 24.91 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | 21.56 | 23.56 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#0   | 22.37 | 24.37 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#49  | 22.97 | 24.97 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#99  | 22.44 | 24.44 | 30 | PASS |



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|-------|-------|-------|-------|---------|-------|-------|----|------|
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 21.66 | 23.66 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#0   | 22.77 | 24.77 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#49  | 22.85 | 24.85 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#99  | 22.53 | 24.53 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 21.66 | 23.66 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#0   | 21.01 | 23.01 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#49  | 21.47 | 23.47 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#99  | 21.97 | 23.97 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 20.62 | 22.62 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#0   | 20.95 | 22.95 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#49  | 21.36 | 23.36 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#99  | 21.56 | 23.56 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 20.72 | 22.72 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#0   | 21.34 | 23.34 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#49  | 21.84 | 23.84 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#99  | 21.29 | 23.29 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 20.59 | 22.59 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#0   | 20.17 | 22.17 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#49  | 20.71 | 22.71 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#99  | 20.35 | 22.35 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | 19.61 | 21.61 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#0   | 20.64 | 22.64 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#49  | 20.99 | 22.99 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#99  | 20.51 | 22.51 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | 19.68 | 21.68 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#0   | 20.89 | 22.89 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#49  | 20.92 | 22.92 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#99  | 20.92 | 22.92 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | 19.68 | 21.68 | 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          | 4.58       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0          | 4.54       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0          | 4.58       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0          | 5.40       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 100RB#0          | 5.32       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 100RB#0          | 5.34       | 13        | PASS    |
| Band4 | 20MHz     | 64QAM      | 20050   | 100RB#0          | 6.80       | 13        | PASS    |
| Band4 | 20MHz     | 64QAM      | 20175   | 100RB#0          | 6.78       | 13        | PASS    |
| Band4 | 20MHz     | 64QAM      | 20300   | 100RB#0          | 6.82       | 13        | PASS    |



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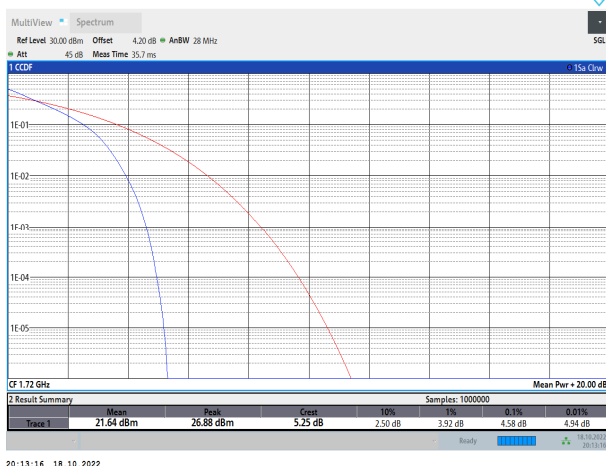
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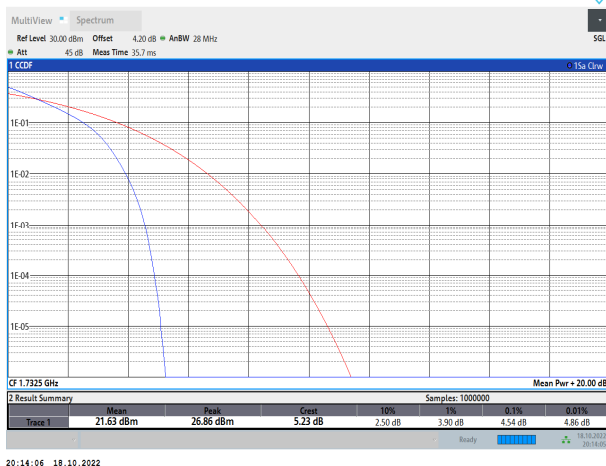
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### Test Graphs

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



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



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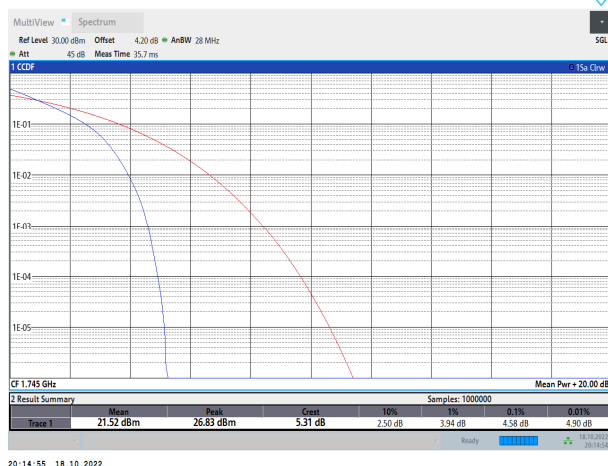
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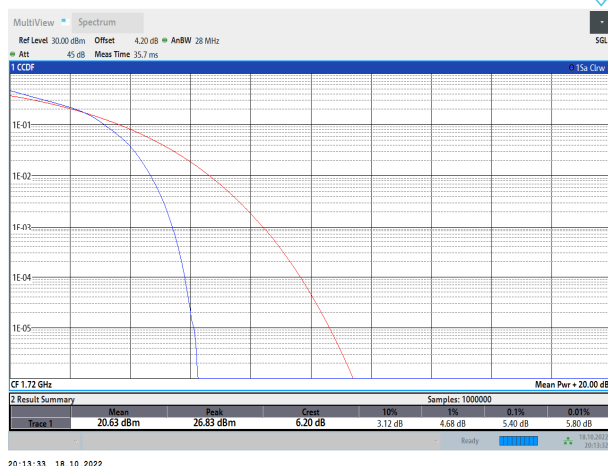
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### Band4-20MHz-QPSK-20300-100RB#0



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



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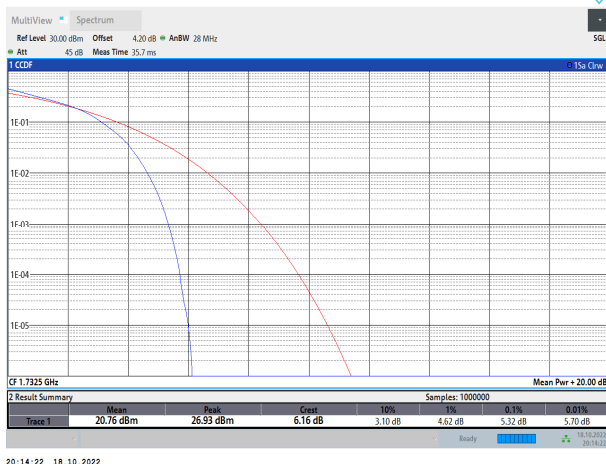
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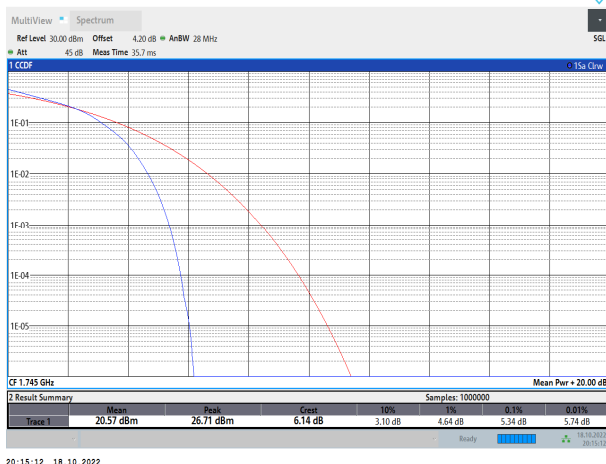
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### Band4-20MHz-16QAM-20175-100RB#0



20:14:22 18.10.2022

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



20:15:12 18.10.2022



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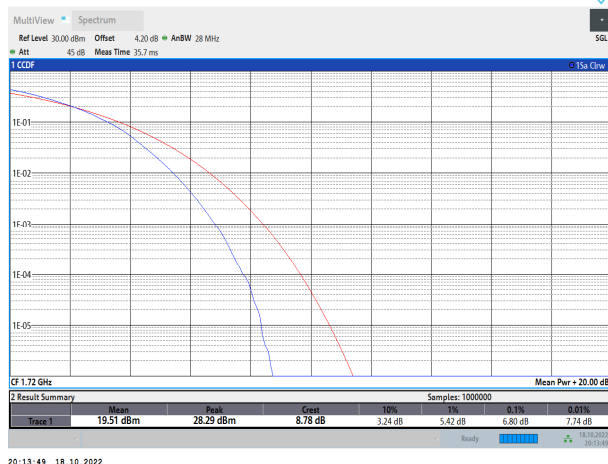
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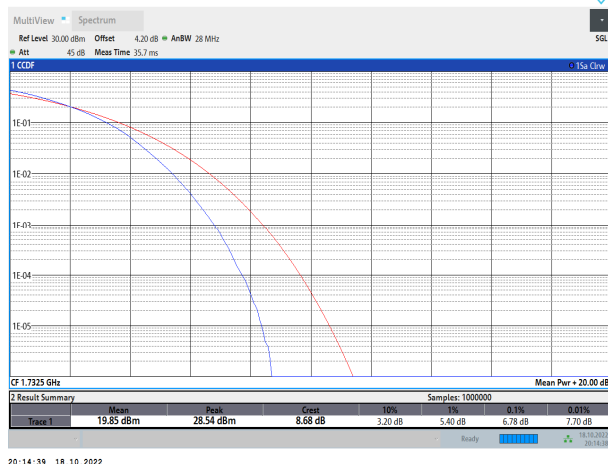
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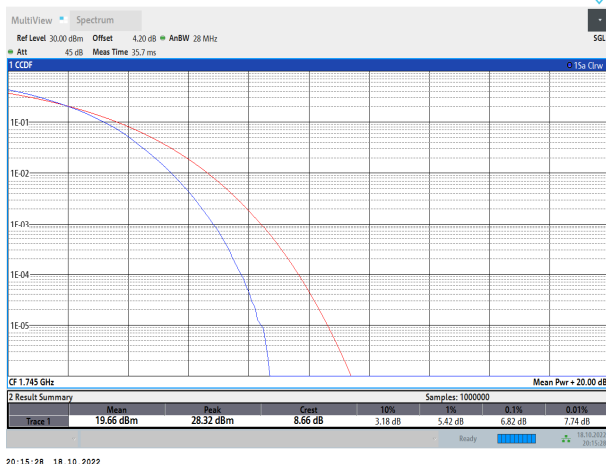


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### Band4-20MHz-64QAM-20300-100RB#0



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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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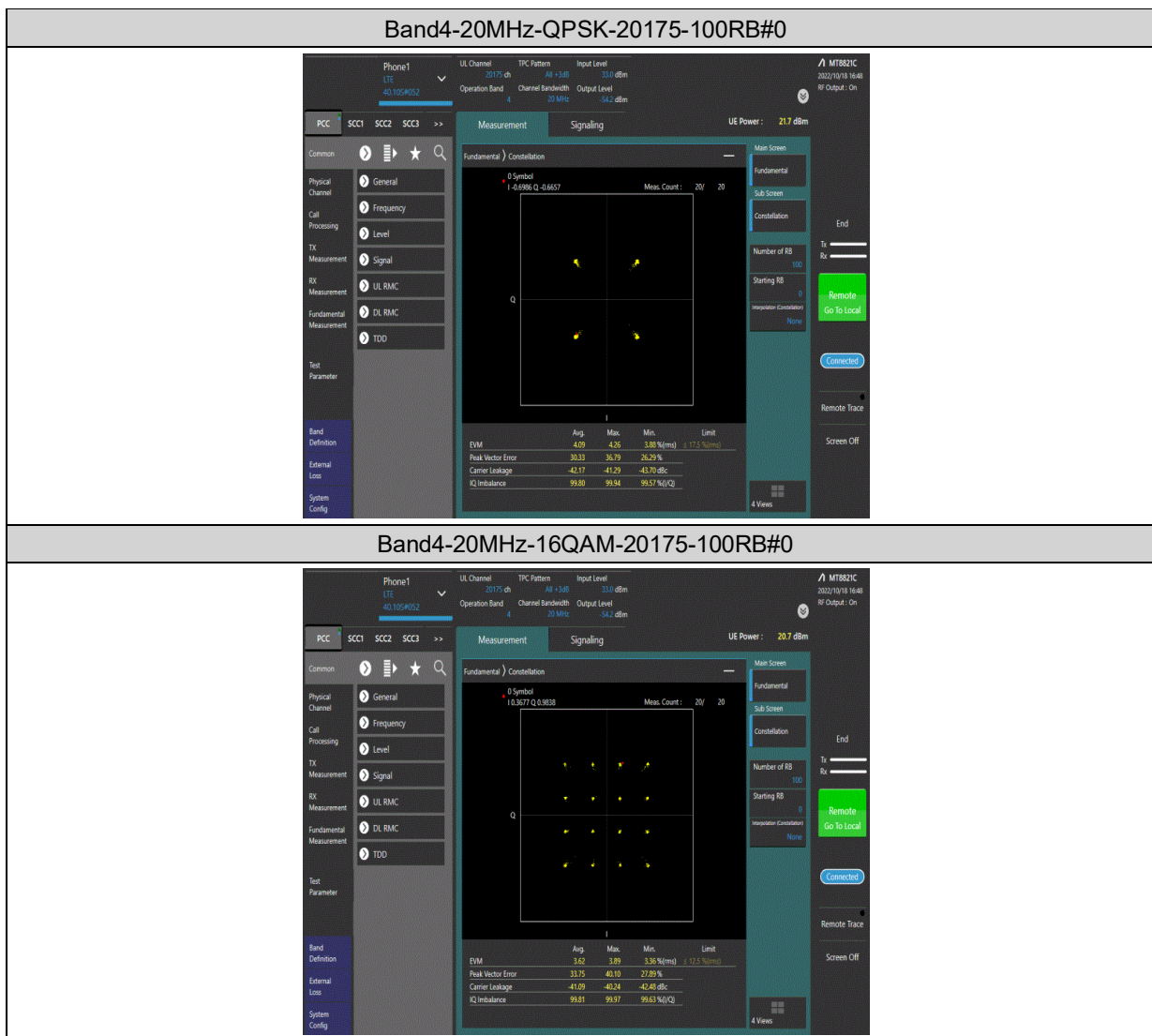
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### Test Graphs



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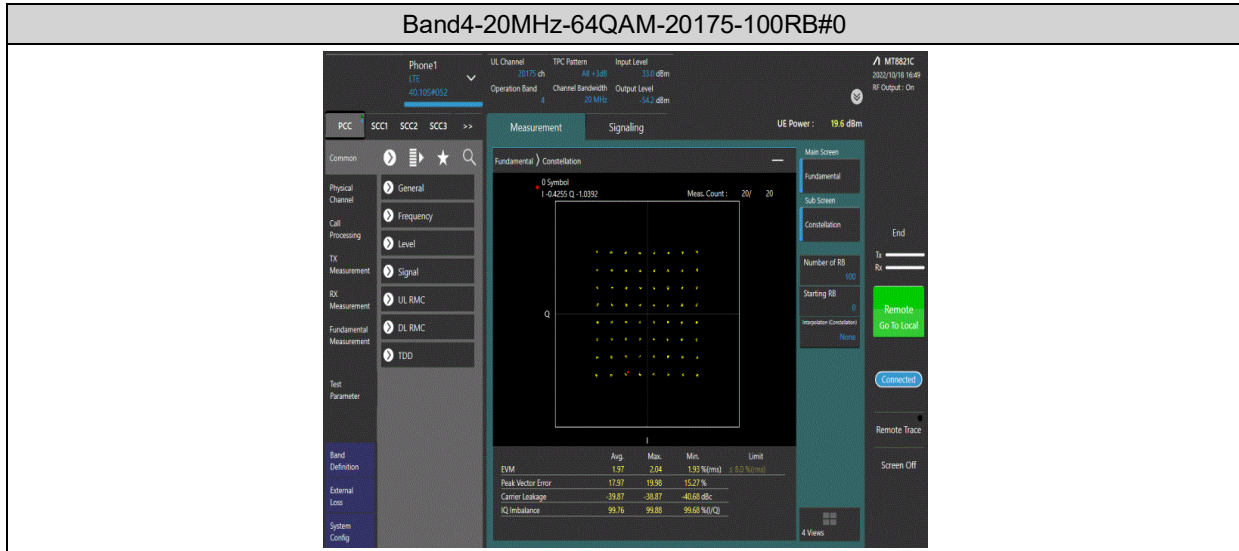
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### Band4-20MHz-64QAM-20175-100RB#0



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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            | 1.088                    | 1.31                 | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 1.087                    | 1.30                 | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 1.087                    | 1.31                 | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 1.099                    | 1.32                 | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 1.098                    | 1.31                 | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 1.097                    | 1.31                 | PASS    |
| Band4 | 1.4MHz    | 64QAM      | 19957   | 6RB#0            | 1.096                    | 1.30                 | PASS    |
| Band4 | 1.4MHz    | 64QAM      | 20175   | 6RB#0            | 1.096                    | 1.30                 | PASS    |
| Band4 | 1.4MHz    | 64QAM      | 20393   | 6RB#0            | 1.096                    | 1.30                 | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | 2.694                    | 2.95                 | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 15RB#0           | 2.693                    | 2.97                 | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | 2.691                    | 2.96                 | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | 2.687                    | 2.98                 | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 15RB#0           | 2.689                    | 2.98                 | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | 2.687                    | 2.99                 | PASS    |
| Band4 | 3MHz      | 64QAM      | 19965   | 15RB#0           | 2.688                    | 2.95                 | PASS    |
| Band4 | 3MHz      | 64QAM      | 20175   | 15RB#0           | 2.691                    | 2.96                 | PASS    |
| Band4 | 3MHz      | 64QAM      | 20385   | 15RB#0           | 2.689                    | 2.96                 | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | 4.468                    | 4.89                 | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 25RB#0           | 4.47                     | 4.90                 | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | 4.469                    | 4.91                 | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | 4.472                    | 4.96                 | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 25RB#0           | 4.469                    | 4.96                 | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | 4.468                    | 4.97                 | PASS    |
| Band4 | 5MHz      | 64QAM      | 19975   | 25RB#0           | 4.48                     | 4.94                 | PASS    |
| Band4 | 5MHz      | 64QAM      | 20175   | 25RB#0           | 4.476                    | 4.93                 | PASS    |
| Band4 | 5MHz      | 64QAM      | 20375   | 25RB#0           | 4.477                    | 4.95                 | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | 8.918                    | 9.74                 | PASS    |
| Band4 | 10MHz     | QPSK       | 20175   | 50RB#0           | 8.911                    | 9.74                 | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | 8.916                    | 9.76                 | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 50RB#0           | 8.912                    | 9.72                 | PASS    |



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|       |       |       |       |         |        |       |      |
|-------|-------|-------|-------|---------|--------|-------|------|
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0  | 8.908  | 9.70  | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0  | 8.908  | 9.68  | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 50RB#0  | 8.926  | 9.62  | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 50RB#0  | 8.925  | 9.68  | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 50RB#0  | 8.917  | 9.72  | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0  | 13.451 | 14.70 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 75RB#0  | 13.441 | 14.73 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 75RB#0  | 13.427 | 14.73 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0  | 13.424 | 14.85 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0  | 13.422 | 14.76 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0  | 13.431 | 14.82 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 75RB#0  | 13.42  | 14.85 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 75RB#0  | 13.402 | 14.79 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 75RB#0  | 13.401 | 14.79 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | 17.901 | 19.52 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 17.881 | 19.56 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 17.879 | 19.56 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 17.882 | 19.56 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 17.822 | 19.44 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 17.847 | 19.40 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | 17.883 | 19.44 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | 17.837 | 19.36 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | 17.851 | 19.44 | PASS |



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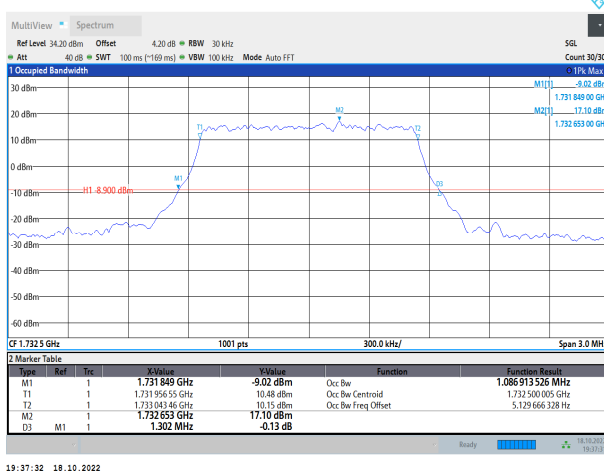
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## Test Graphs

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



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



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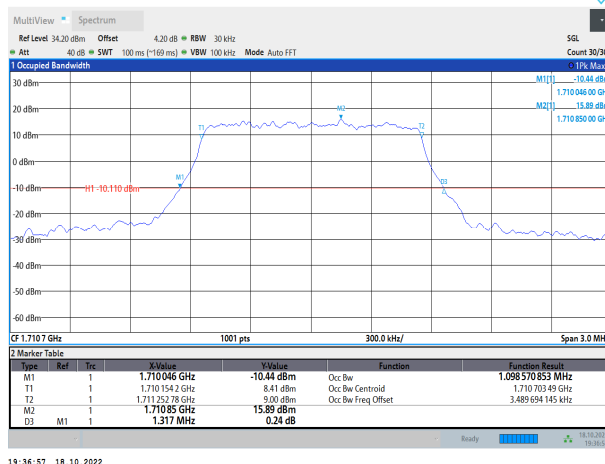
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### Band4-1.4MHz-QPSK-20393-6RB#0



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

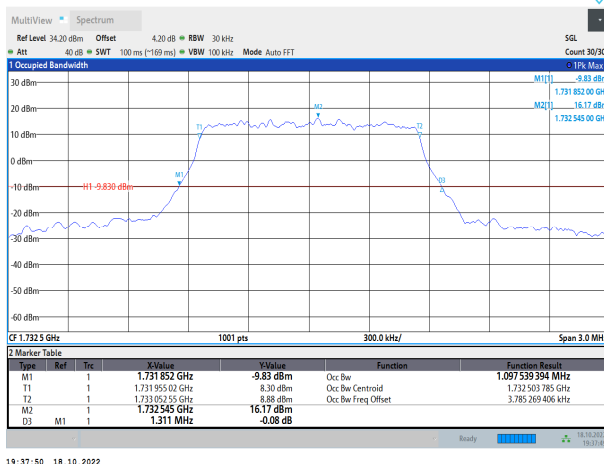


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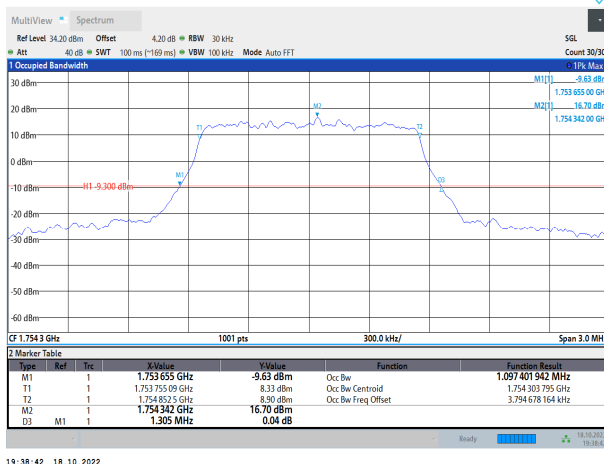
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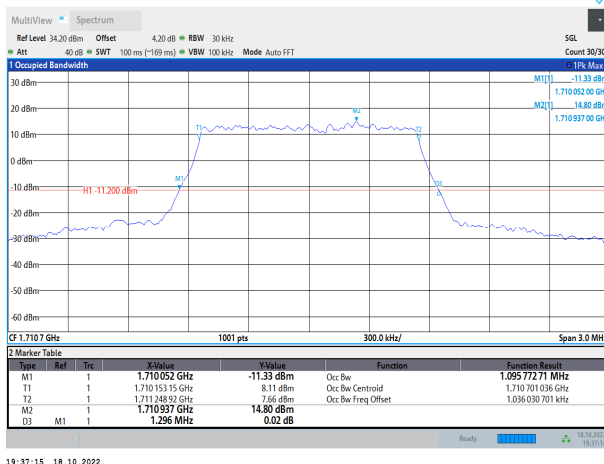
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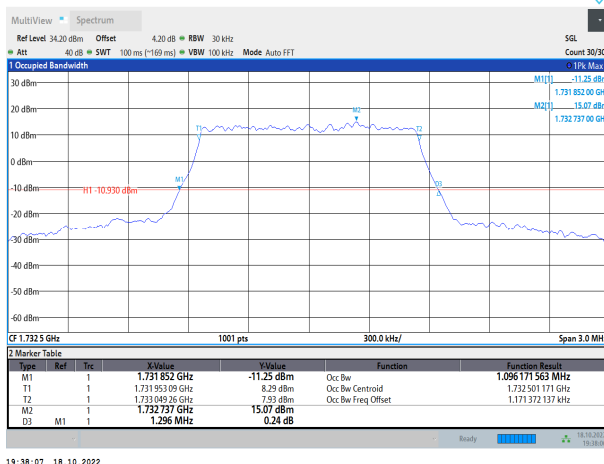
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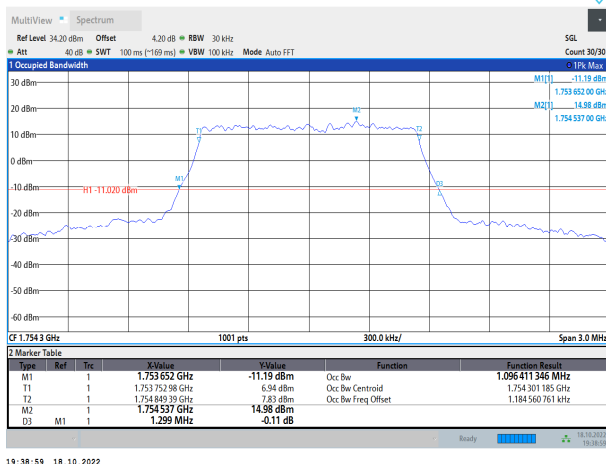


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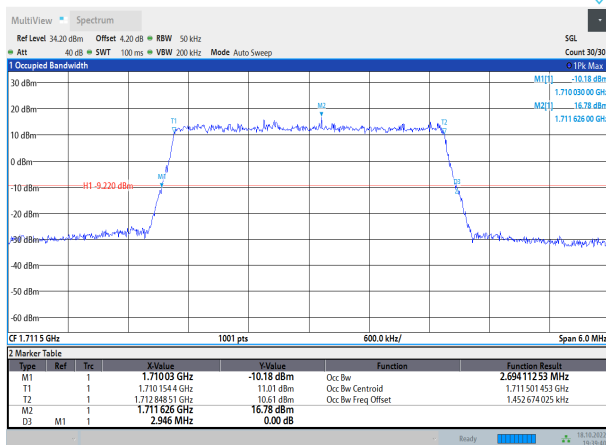
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### Band4-3MHz-QPSK-19965-15RB#0



19:39:41 18.10.2022



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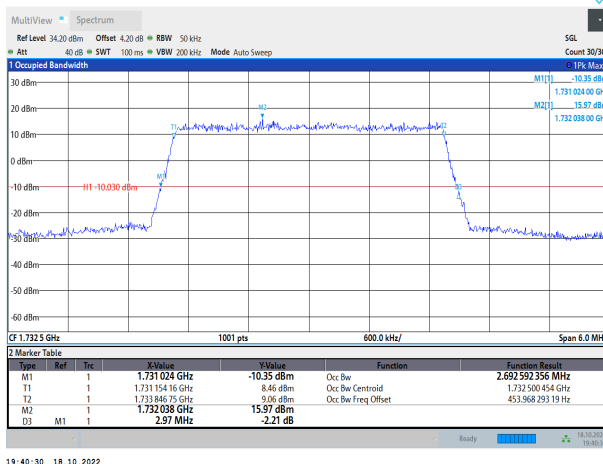
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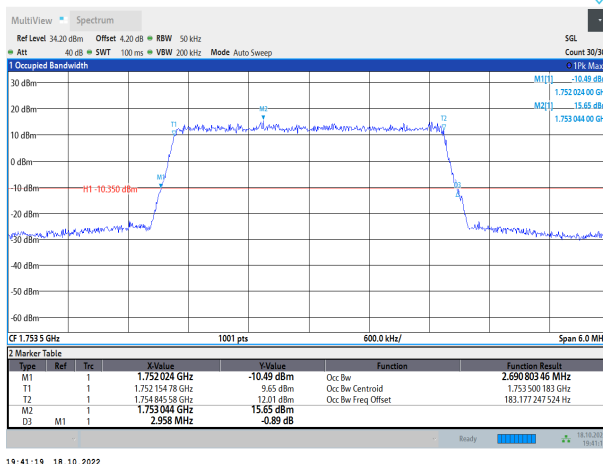
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### Band4-3MHz-QPSK-20175-15RB#0



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

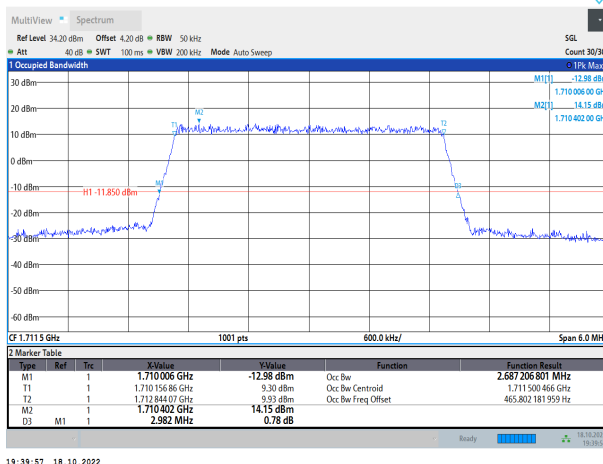


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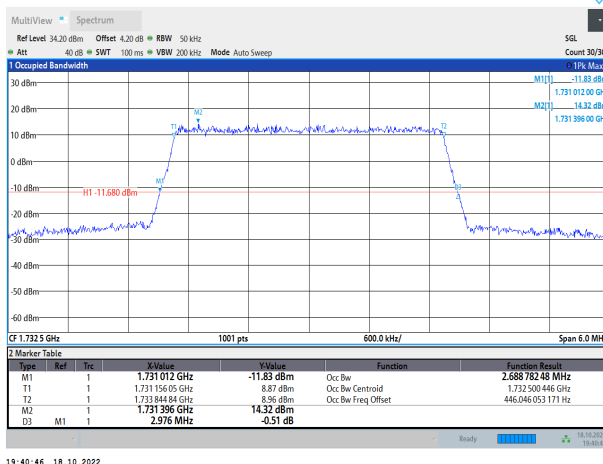
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### Band4-3MHz-16QAM-19965-15RB#0



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



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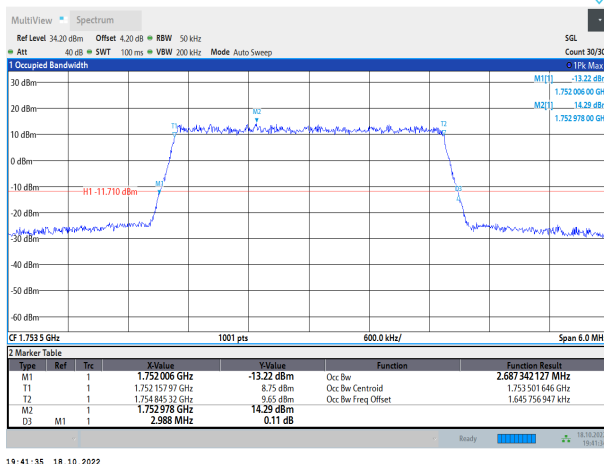
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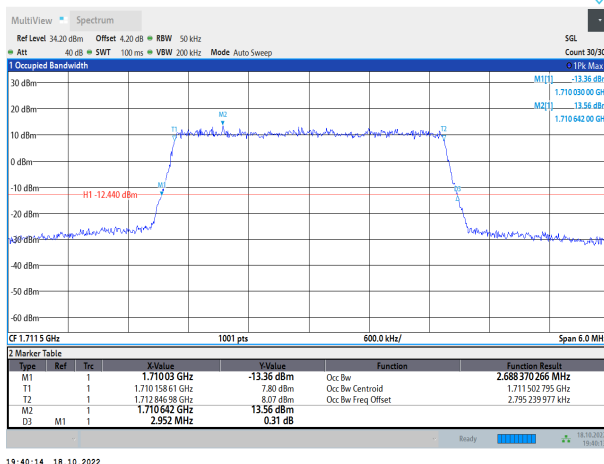
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### Band4-3MHz-16QAM-20385-15RB#0



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



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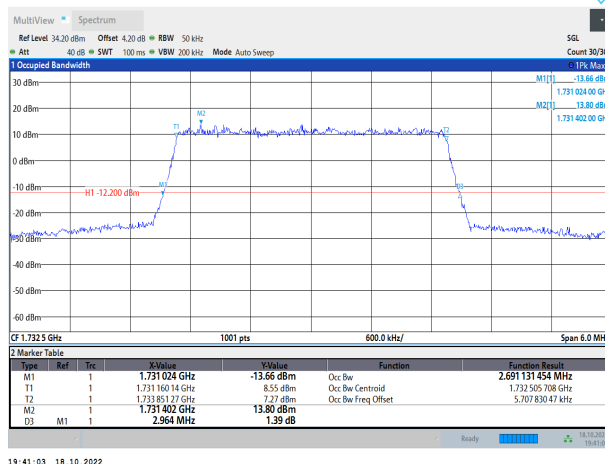
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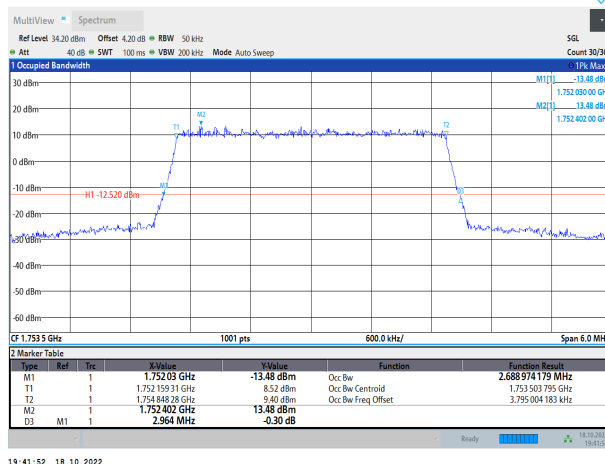
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### Band4-3MHz-64QAM-20175-15RB#0



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



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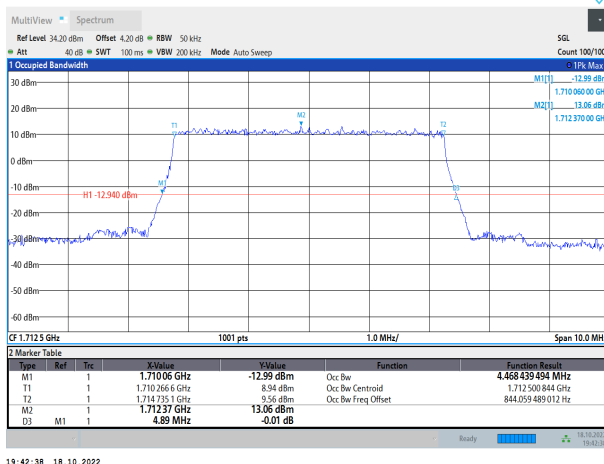


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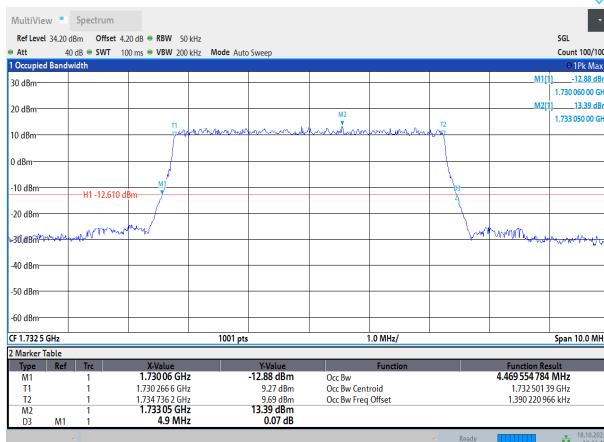
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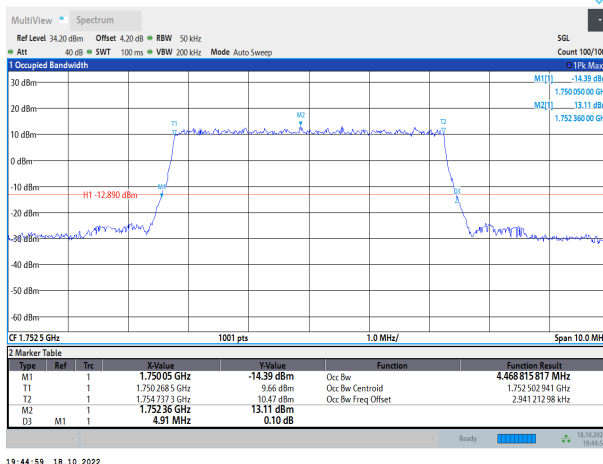
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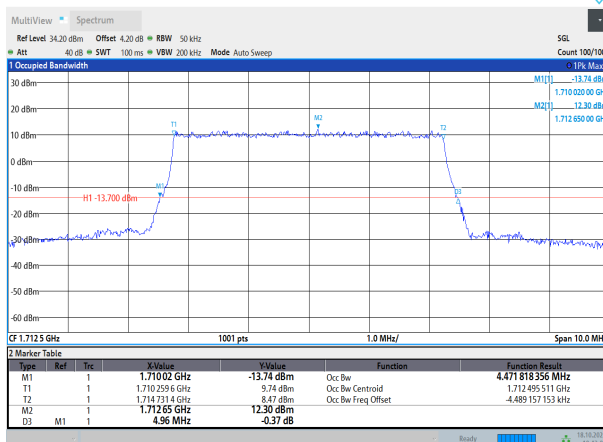
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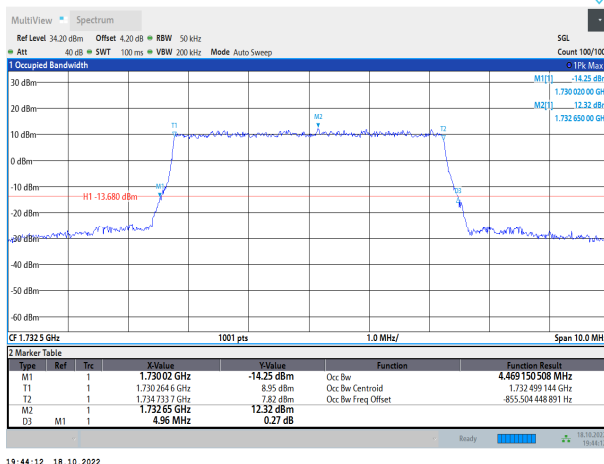
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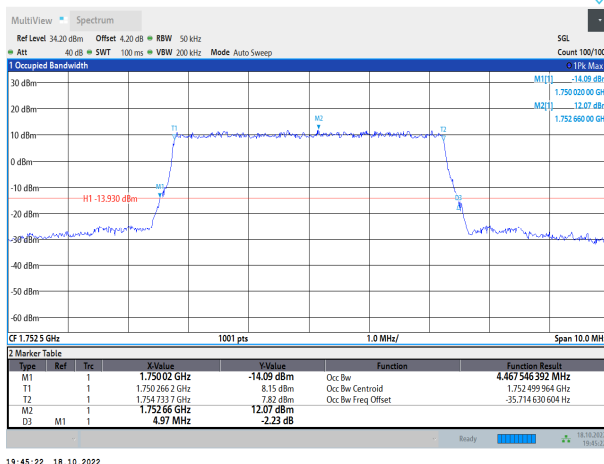
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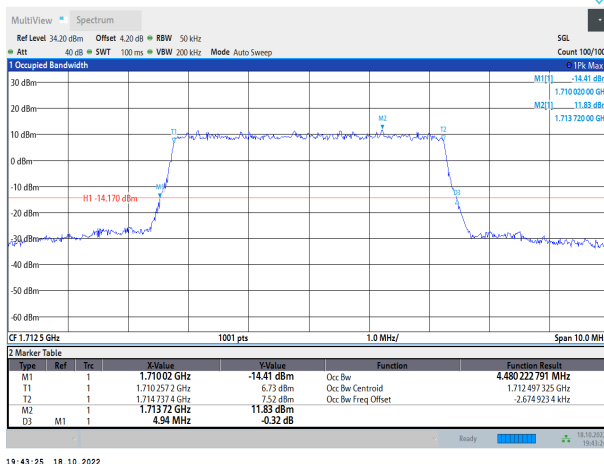


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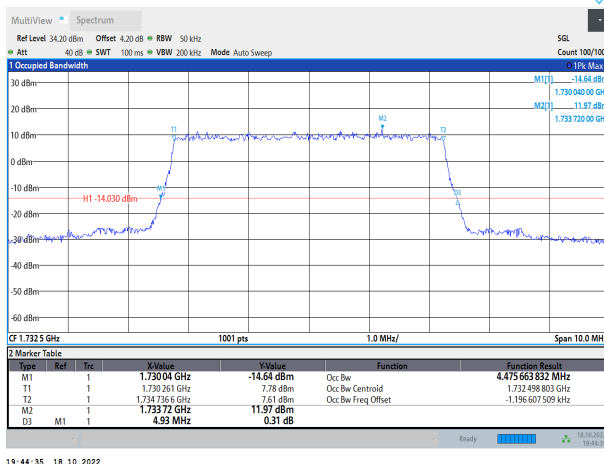
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### Band4-5MHz-64QAM-19975-25RB#0



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



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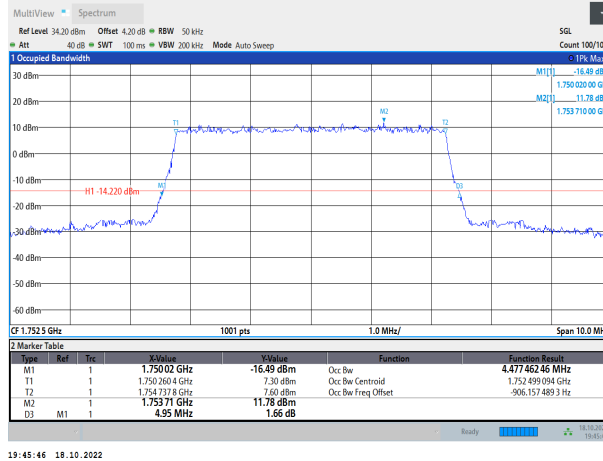
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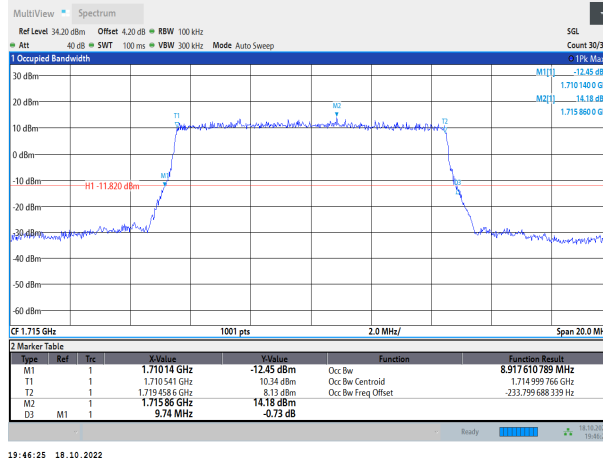
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### Band4-5MHz-64QAM-20375-25RB#0



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

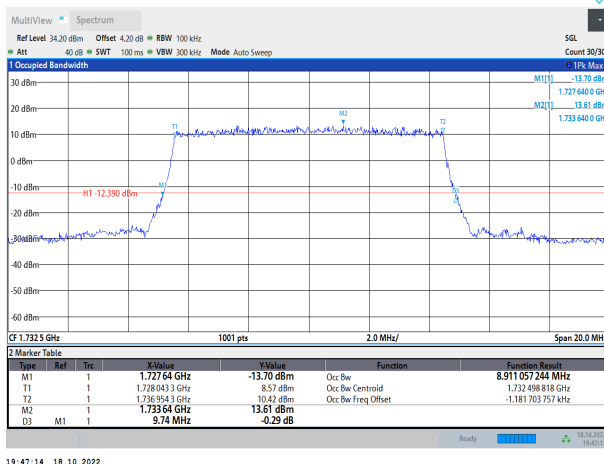


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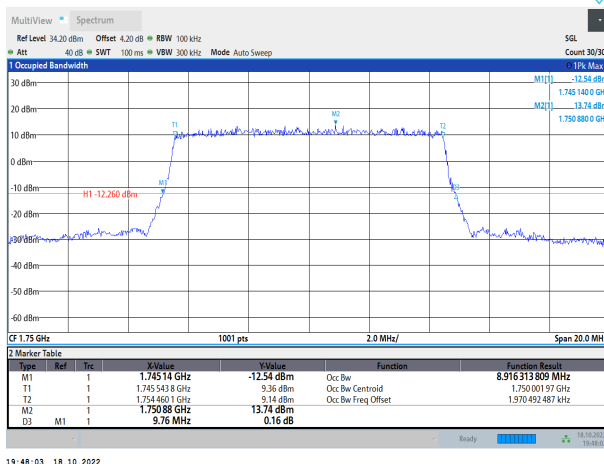
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### Band4-10MHz-QPSK-20175-50RB#0



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



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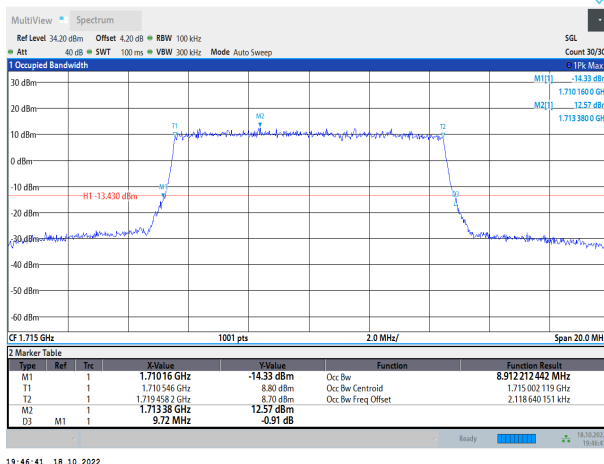


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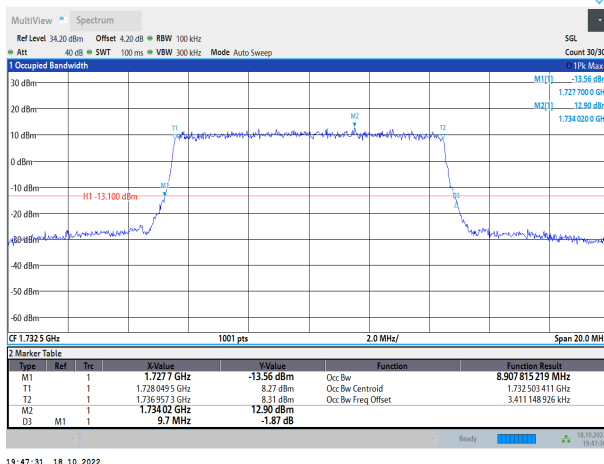
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### Band4-10MHz-16QAM-20000-50RB#0



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



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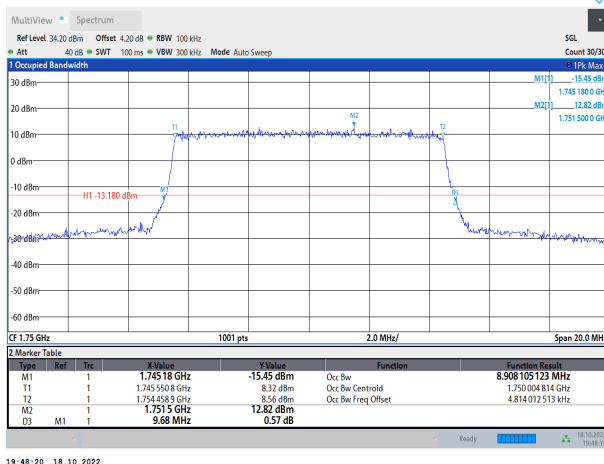
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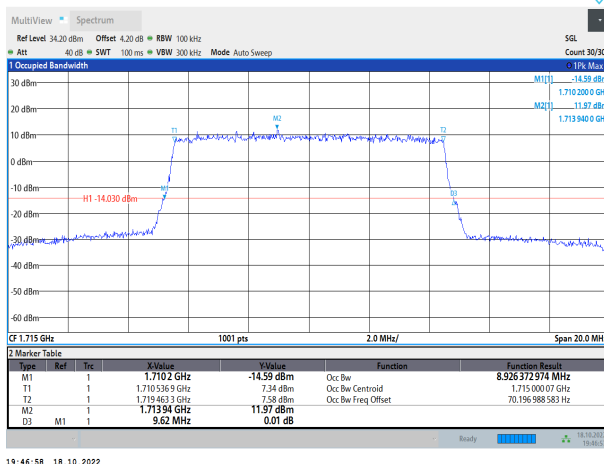
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### Band4-10MHz-64QAM-20000-50RB#0



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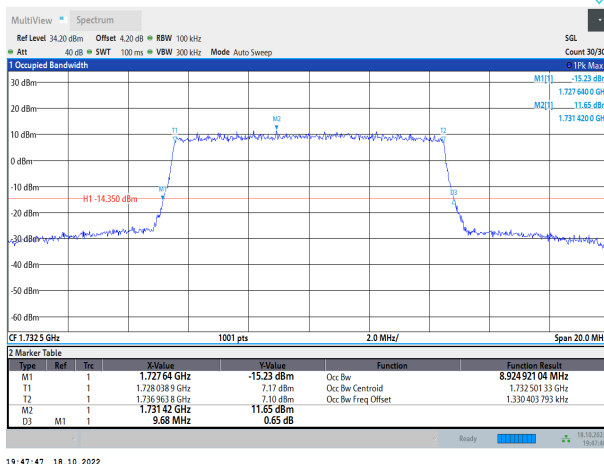
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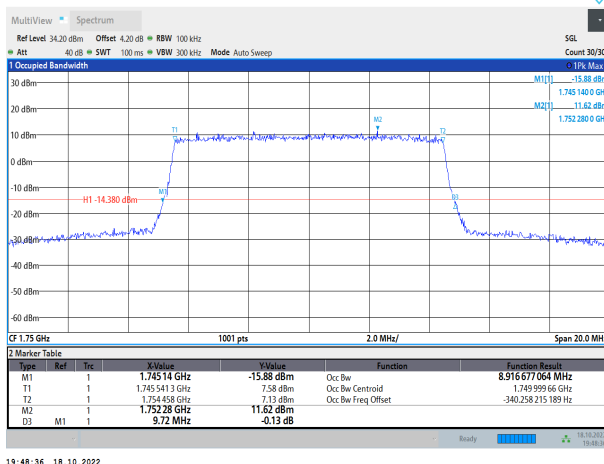
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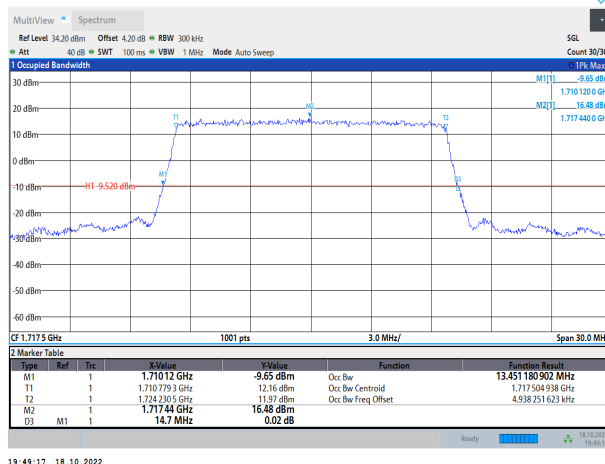
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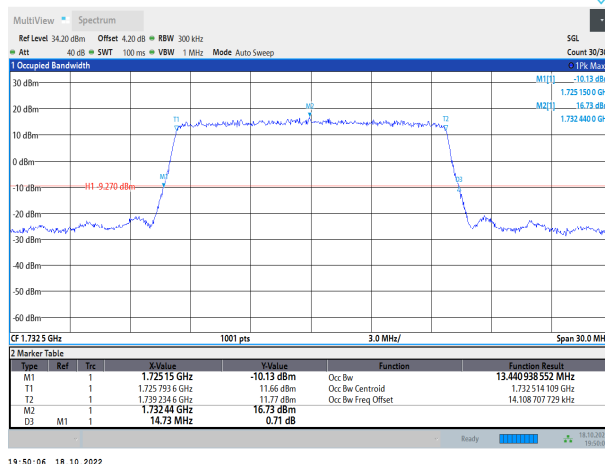
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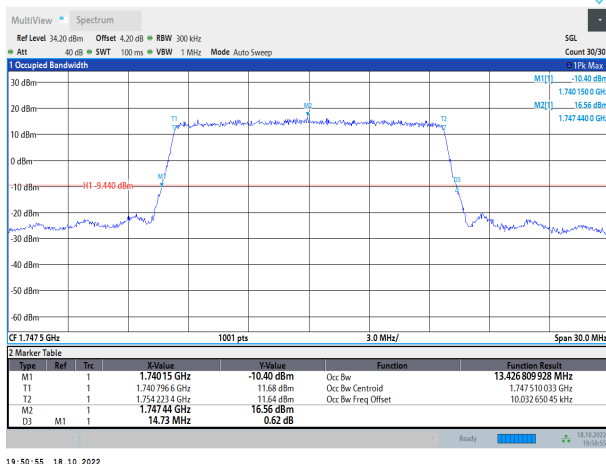
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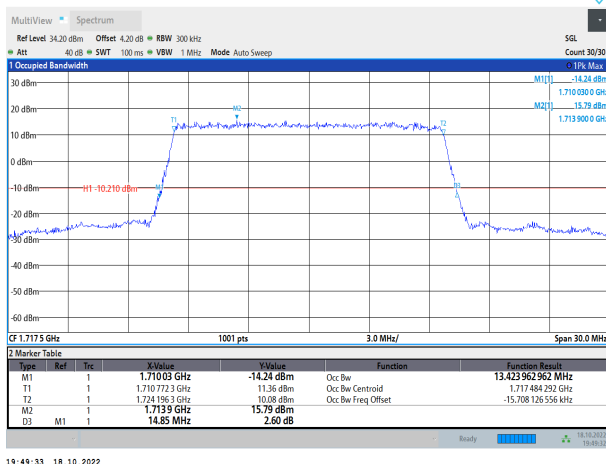
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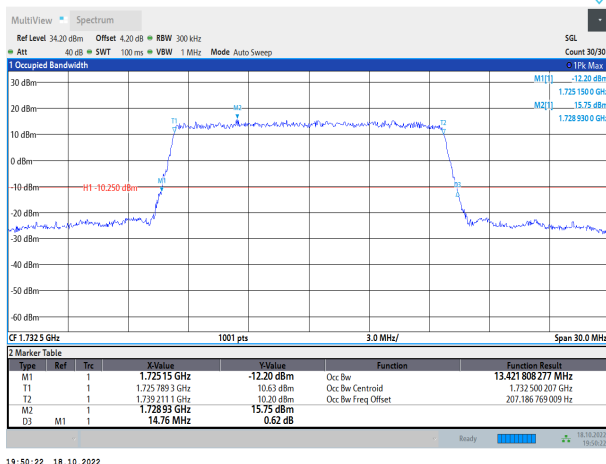


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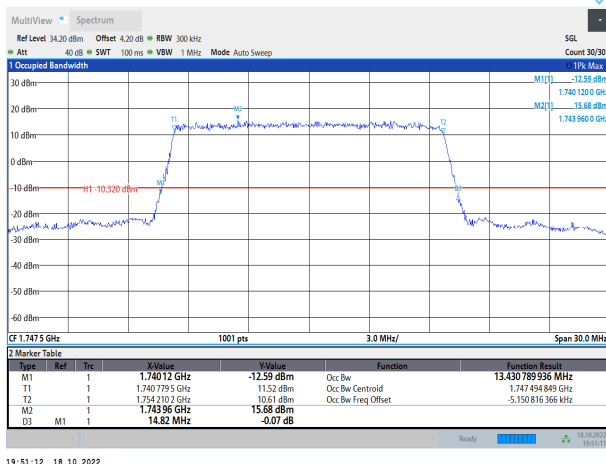
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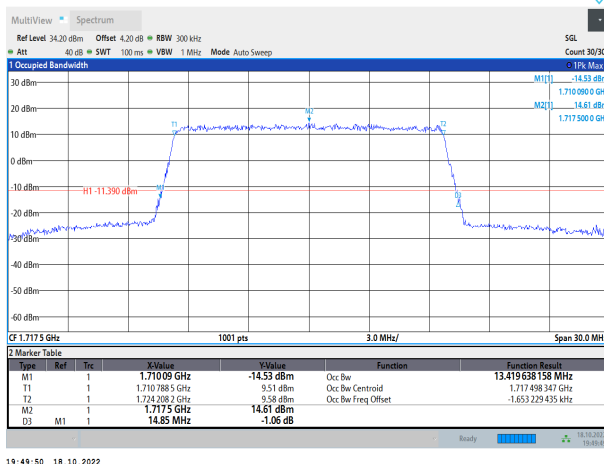


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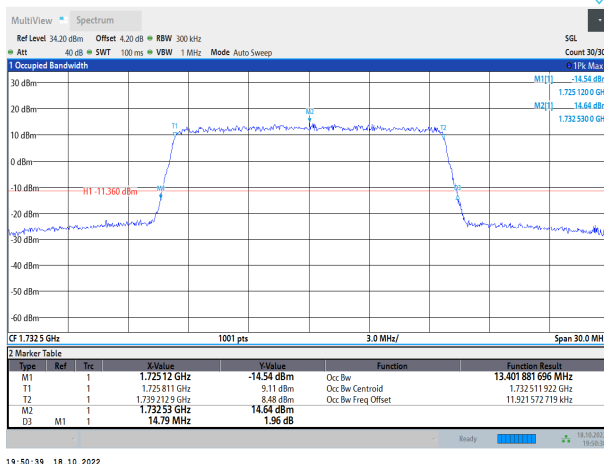
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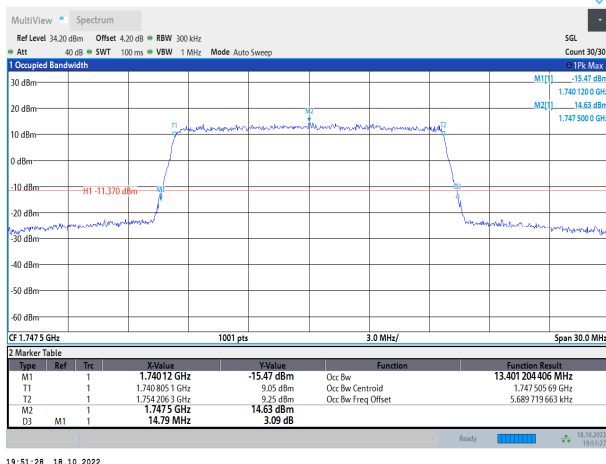
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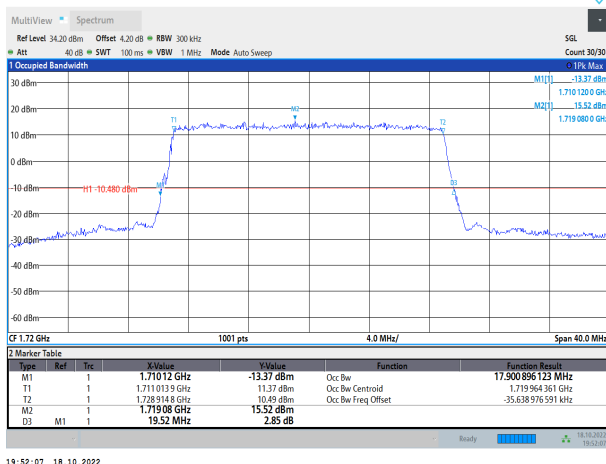
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### Band4-15MHz-64QAM-20325-75RB#0



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



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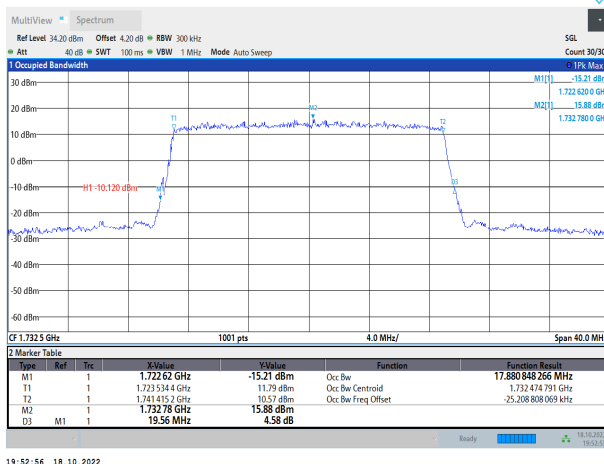
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### Band4-20MHz-QPSK-20175-100RB#0



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



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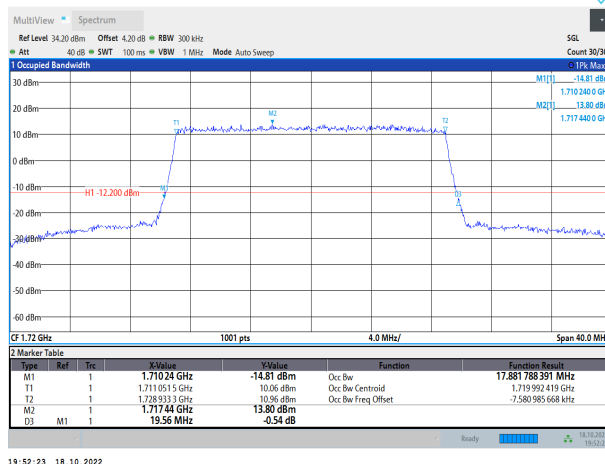
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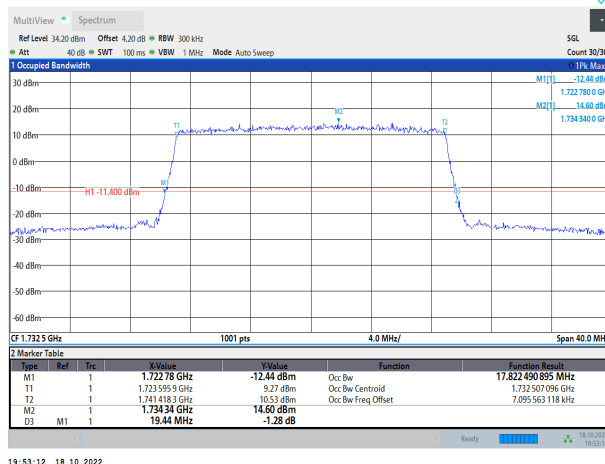
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### Band4-20MHz-16QAM-20050-100RB#0



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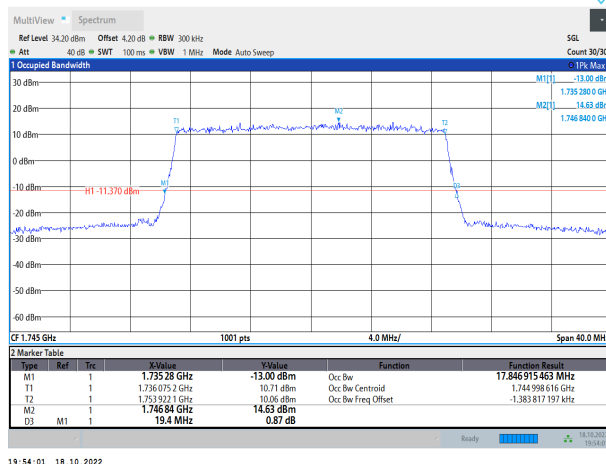


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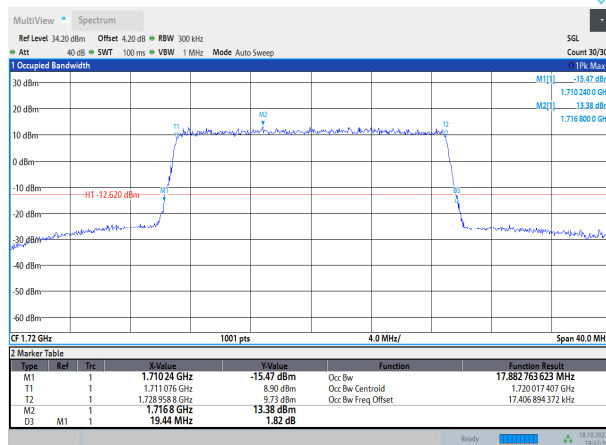
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### Band4-20MHz-16QAM-20300-100RB#0



19:54:01 18.10.2022

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



19:52:40 18.10.2022



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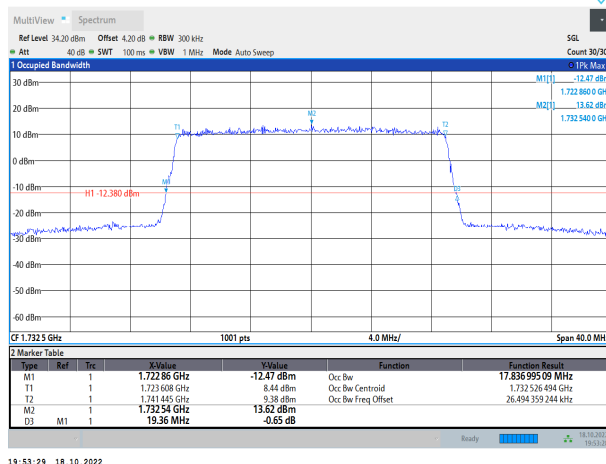
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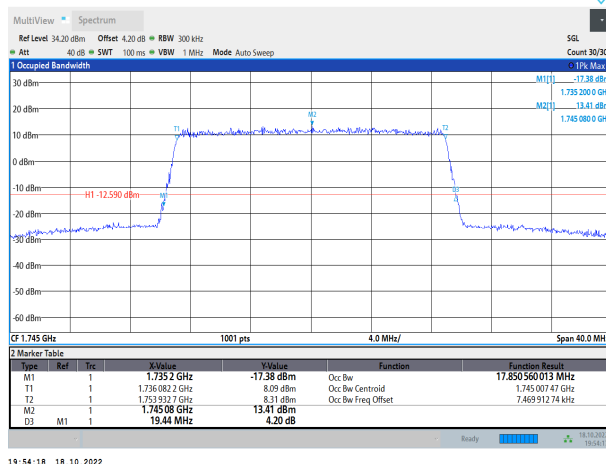
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### Band4-20MHz-64QAM-20175-100RB#0



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



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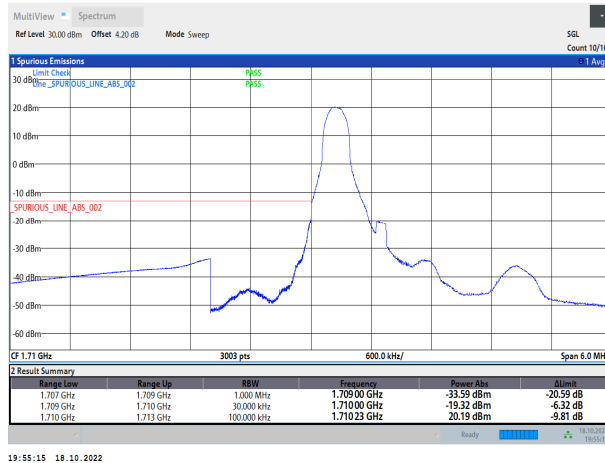
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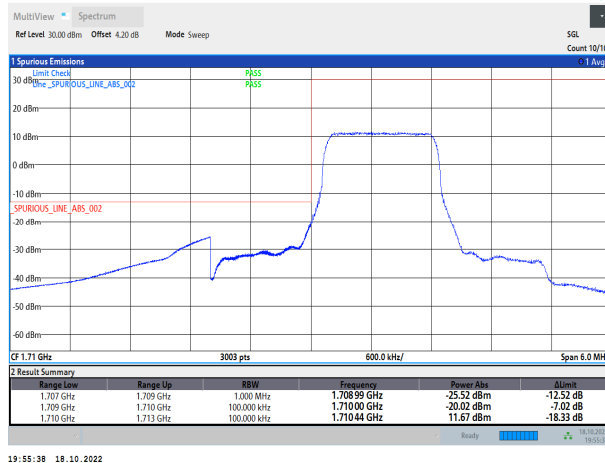
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### Test Graphs

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



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



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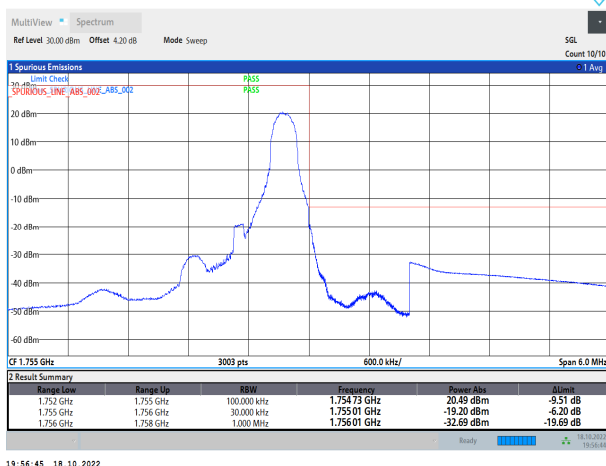
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### Band4-1.4MHz-QPSK-20393-1RB#5



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



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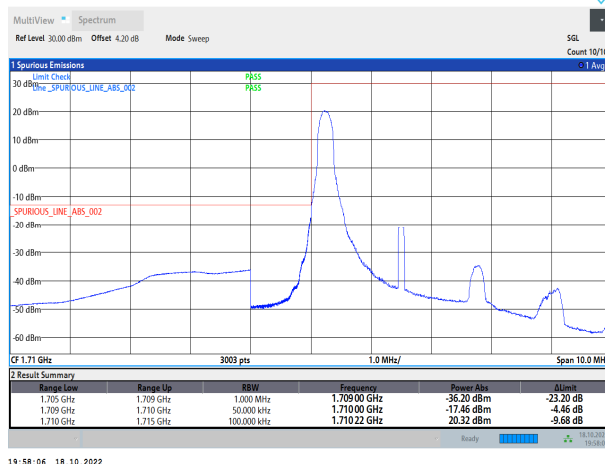
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### Band4-3MHz-QPSK-19965-1RB#0



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



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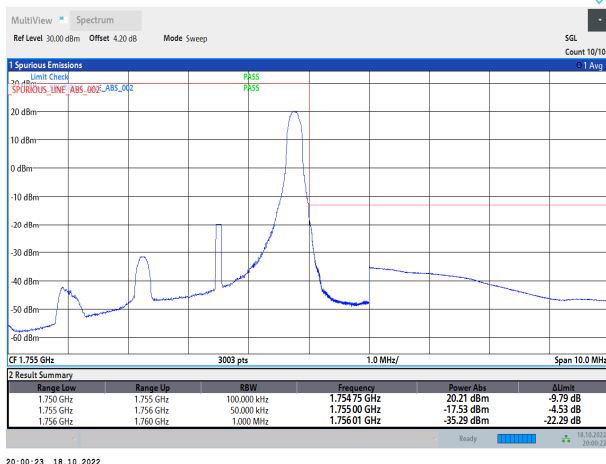
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### Band4-3MHz-QPSK-20385-1RB#14



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



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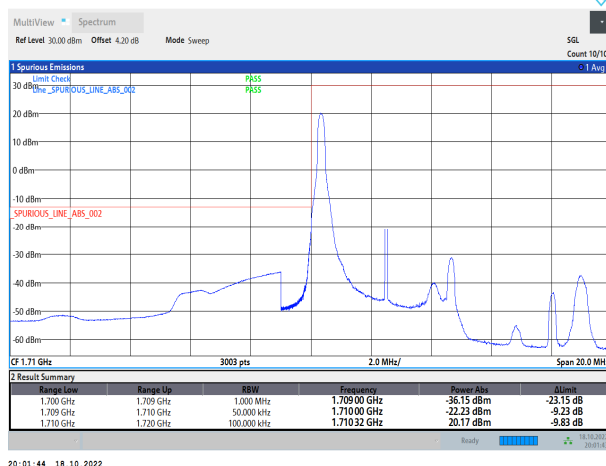
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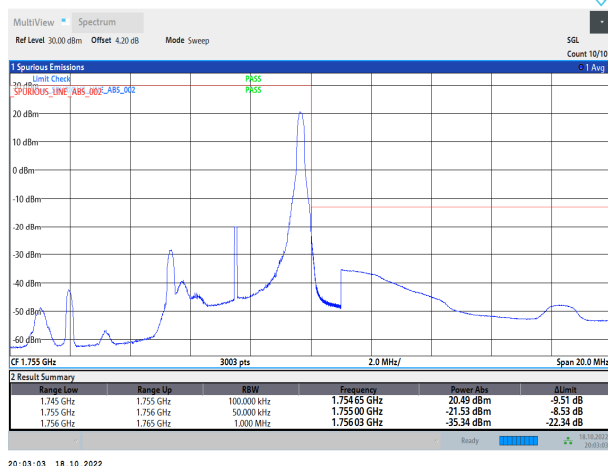
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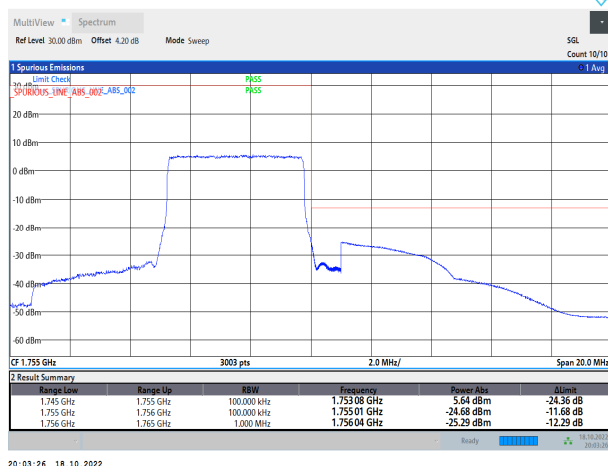
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### Band4-5MHz-QPSK-20375-1RB#24



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



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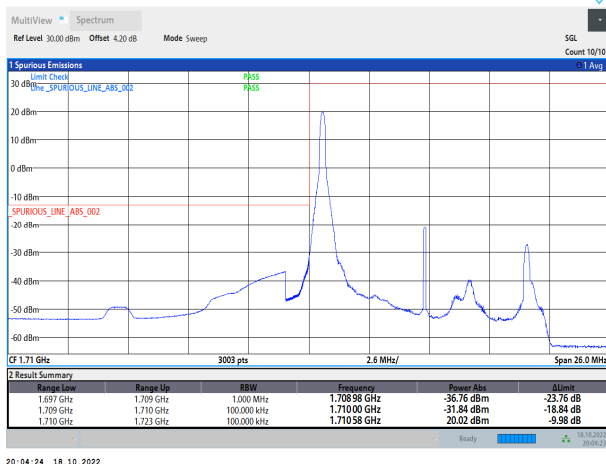


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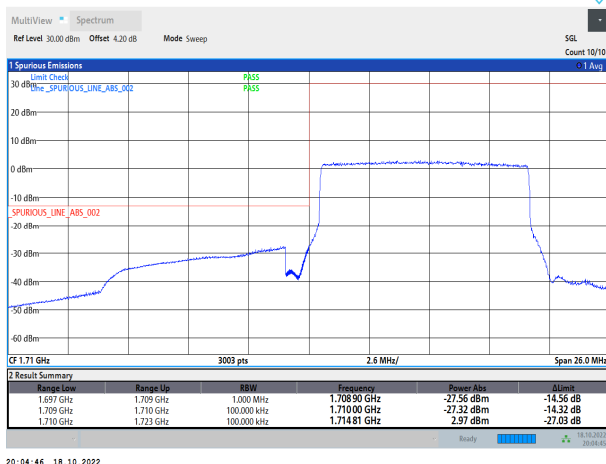
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### Band4-10MHz-QPSK-20000-1RB#0



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



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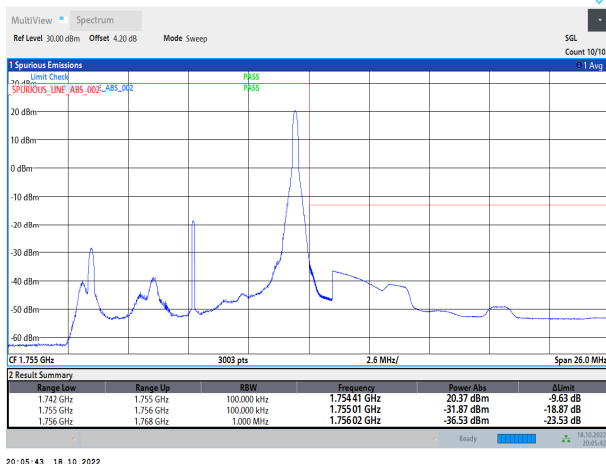
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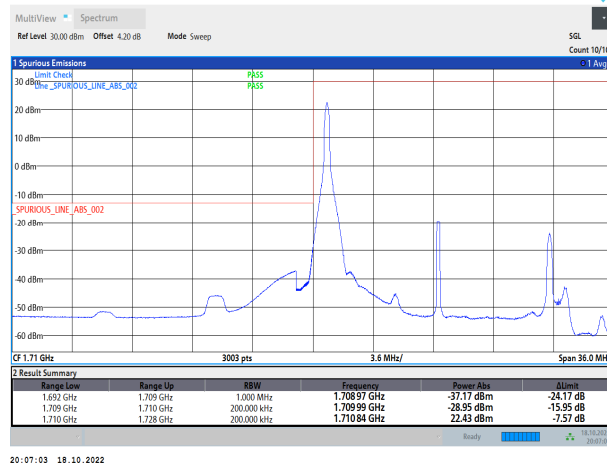
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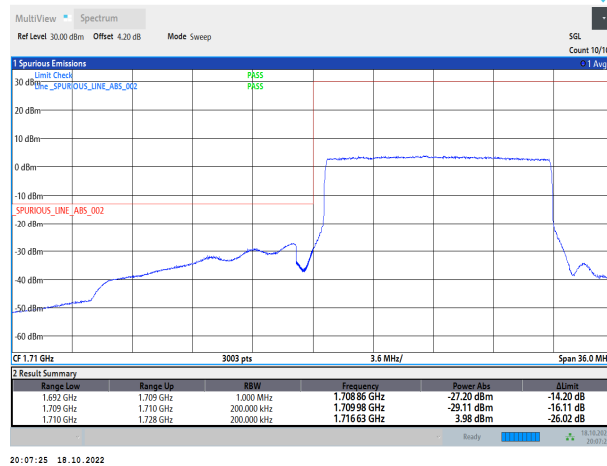
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### Band4-15MHz-QPSK-20025-1RB#0



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



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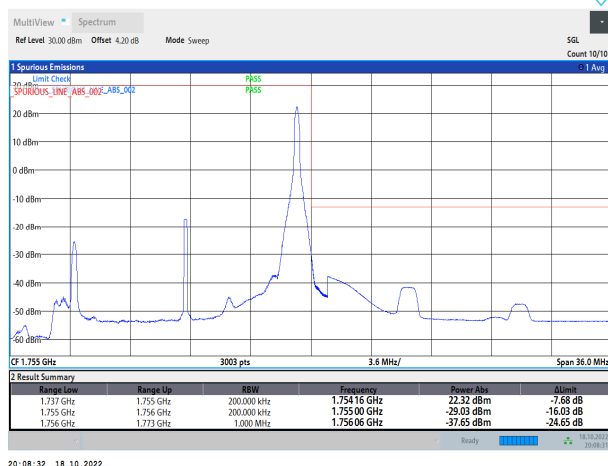
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### Band4-15MHz-QPSK-20325-1RB#74



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



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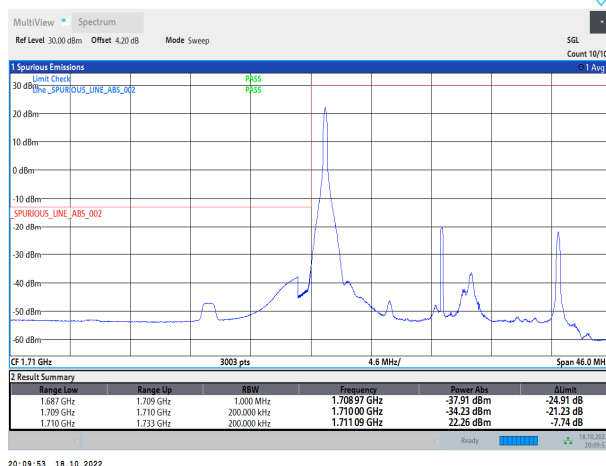
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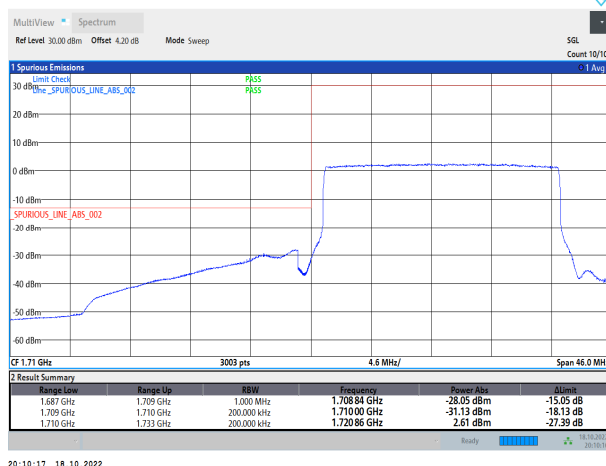
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### Band4-20MHz-QPSK-20050-1RB#0



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



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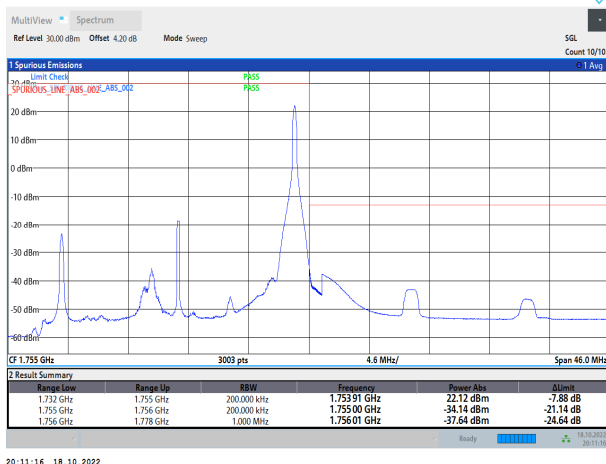
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### Band4-20MHz-QPSK-20300-1RB#99



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



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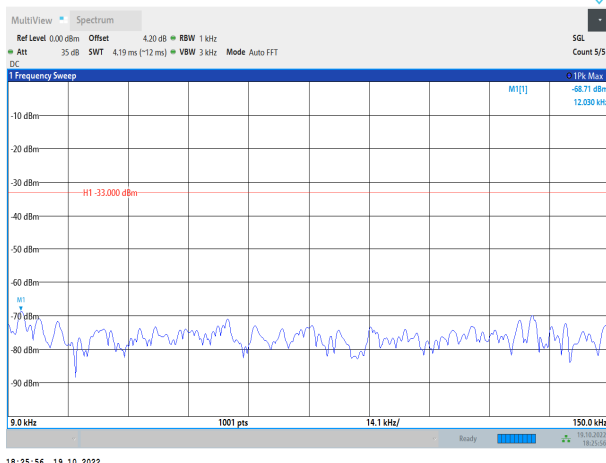
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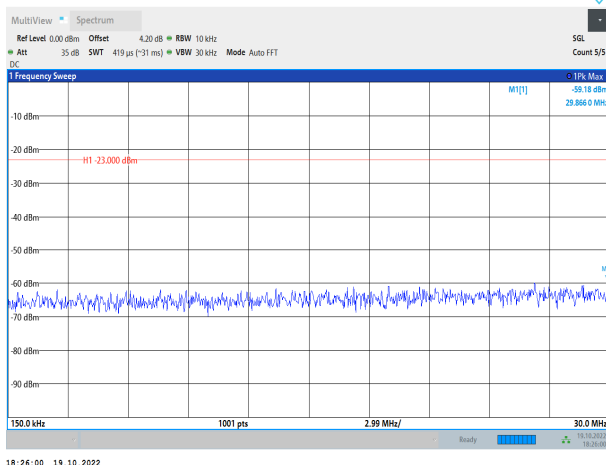
### Conducted Spurious Emission

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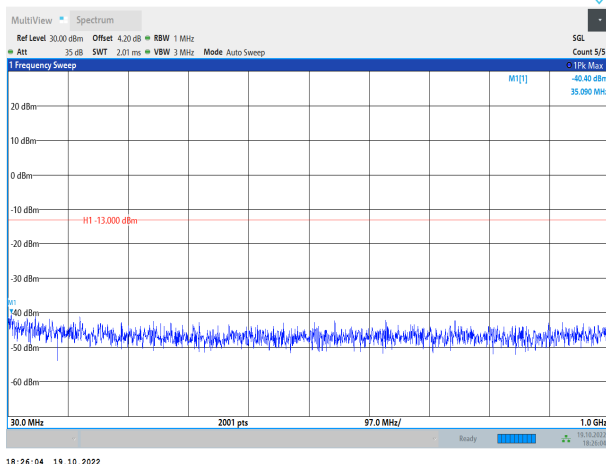
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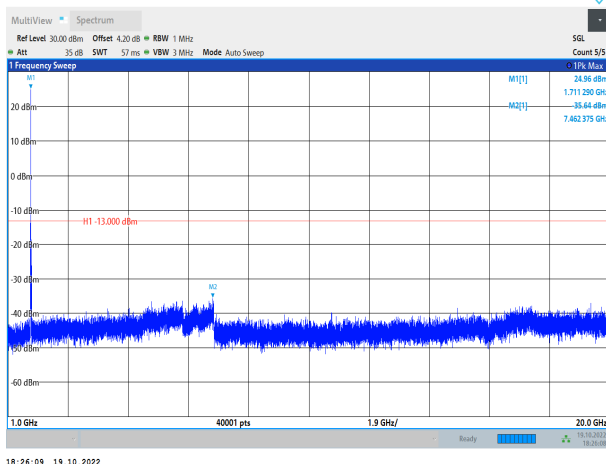
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### Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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



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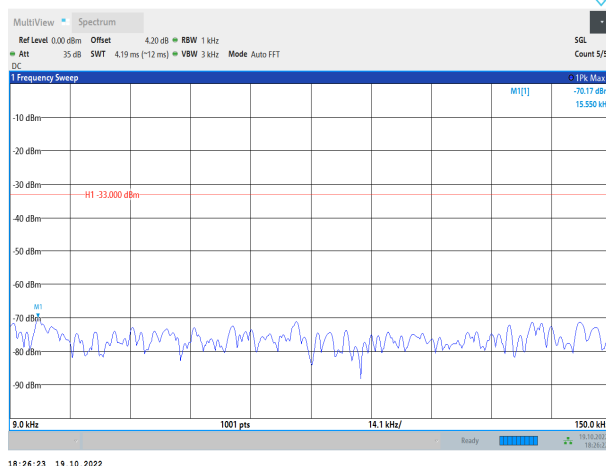
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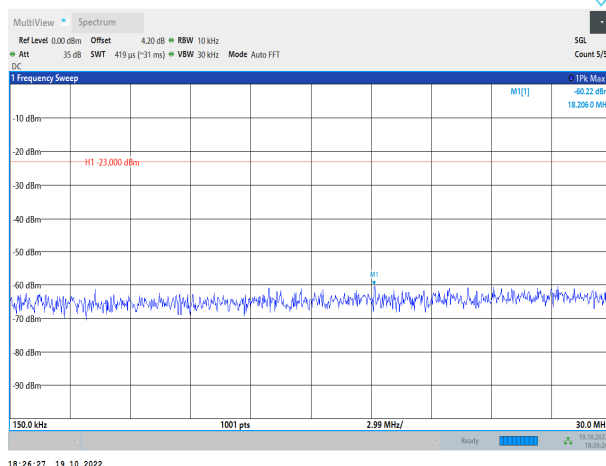
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### Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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



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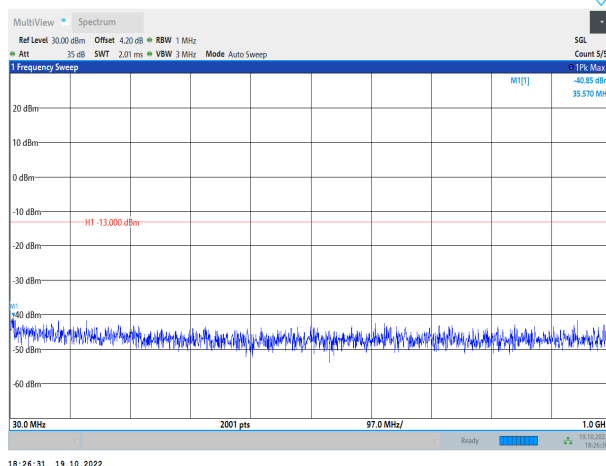
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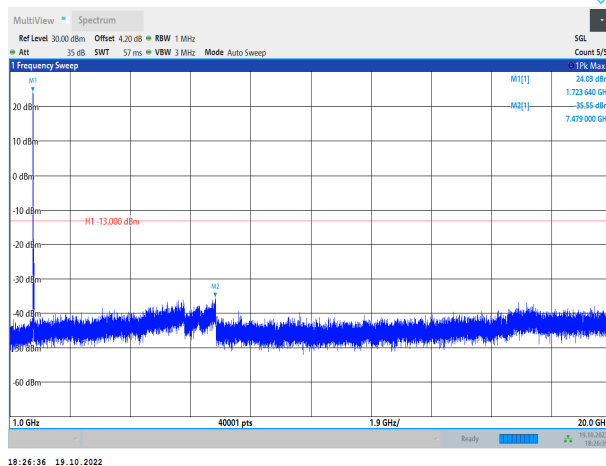
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### Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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



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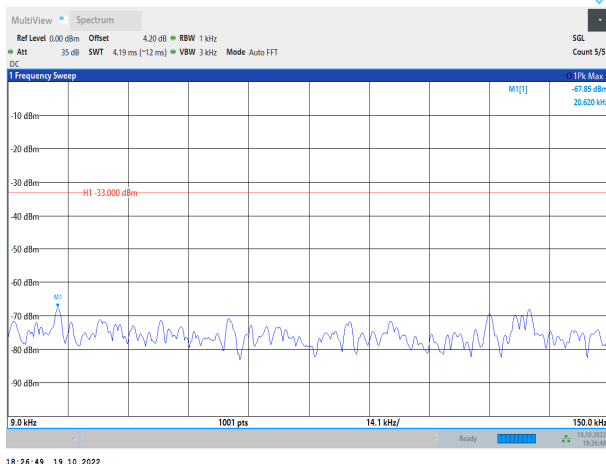
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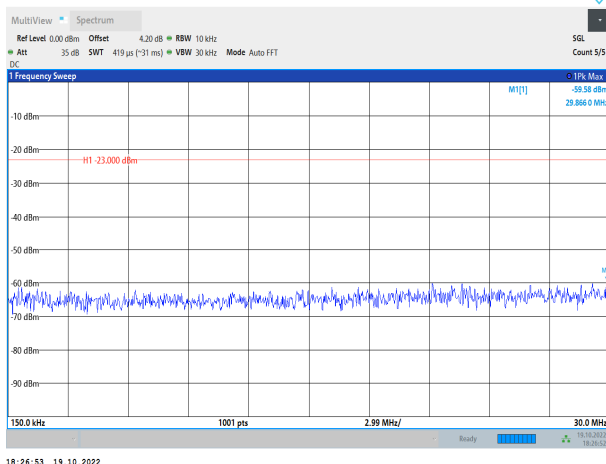
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### Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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



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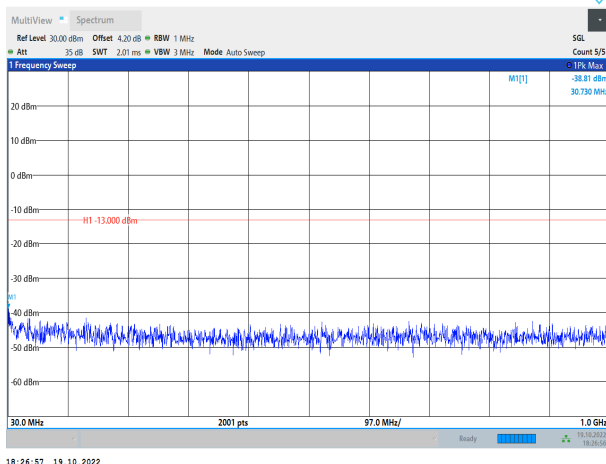
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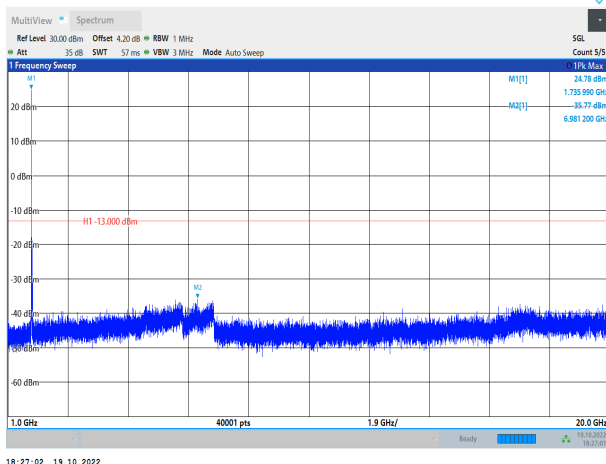
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### Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

Test Band = LTE Band4\_ TM1

Test Channel = Low

### Final Data List

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| 1   | 3422.1800          | 63.50             | -46.28         | 29.45    | -48.59         | -13.00         | 35.59          | 189            | 43           | Horizontal |
| 2   | 5133.2700          | 47.81             | -45.34         | 32.95    | -59.84         | -13.00         | 46.84          | 126            | 286          | Horizontal |
| 3   | 6844.3600          | 46.90             | -44.14         | 35.89    | -56.61         | -13.00         | 43.61          | 132            | 209          | Horizontal |
| 4   | 8555.4500          | 41.75             | -41.46         | 37.66    | -57.31         | -13.00         | 44.31          | 154            | 359          | Horizontal |
| 5   | 10266.5400         | 35.80             | -39.23         | 38.83    | -59.86         | -13.00         | 46.86          | 148            | 286          | Horizontal |
| 6   | 11977.6300         | 31.68             | -37.51         | 38.95    | -62.15         | -13.00         | 49.15          | 129            | 255          | Horizontal |

### Final Data List

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| 1   | 3422.1800          | 59.14             | -46.28         | 29.45    | -52.95         | -13.00         | 39.95          | 258            | 46           | Vertical |
| 2   | 5133.2700          | 50.63             | -45.34         | 32.95    | -57.02         | -13.00         | 44.02          | 174            | 360          | Vertical |
| 3   | 6844.3600          | 45.67             | -44.14         | 35.89    | -57.84         | -13.00         | 44.84          | 196            | 195          | Vertical |
| 4   | 8555.4500          | 42.77             | -41.46         | 37.66    | -56.29         | -13.00         | 43.29          | 122            | 77           | Vertical |
| 5   | 10266.5400         | 35.91             | -39.23         | 38.83    | -59.75         | -13.00         | 46.75          | 147            | 151          | Vertical |
| 6   | 11977.6300         | 31.48             | -37.51         | 38.95    | -62.35         | -13.00         | 49.35          | 211            | 182          | Vertical |



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**Test Band = LTE Band4\_ TM1**

**Test Channel = Mid**

**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| 1   | 3447               | 60.92             | -46.27         | 29.47    | -51.14         | -13.00         | 38.14          | 156            | 73           | Horizontal |
| 2   | 5170.7700          | 47.31             | -45.31         | 32.97    | -60.28         | -13.00         | 47.28          | 195            | 287          | Horizontal |
| 3   | 6894.3600          | 46.03             | -44.10         | 35.95    | -57.38         | -13.00         | 44.38          | 148            | 195          | Horizontal |
| 4   | 8617.9500          | 41.37             | -41.40         | 37.78    | -57.51         | -13.00         | 44.51          | 175            | 332          | Horizontal |
| 5   | 10341.5400         | 35.81             | -39.06         | 38.85    | -59.66         | -13.00         | 46.66          | 162            | 166          | Horizontal |
| 6   | 12065.1300         | 32.96             | -37.44         | 39.02    | -60.72         | -13.00         | 47.72          | 133            | 318          | Horizontal |

**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| 1   | 3447.1800          | 57.48             | -46.27         | 29.47    | -54.58         | -13.00         | 41.58          | 178            | 105          | Vertical |
| 2   | 5170.7700          | 48.96             | -45.31         | 32.97    | -58.63         | -13.00         | 45.63          | 196            | 344          | Vertical |
| 3   | 6894.3600          | 45.74             | -44.10         | 35.95    | -57.67         | -13.00         | 44.67          | 185            | 165          | Vertical |
| 4   | 8617.9500          | 42.41             | -41.40         | 37.78    | -56.47         | -13.00         | 43.47          | 142            | 225          | Vertical |
| 5   | 10341.5400         | 35.81             | -39.06         | 38.85    | -59.66         | -13.00         | 46.66          | 126            | 4            | Vertical |
| 6   | 12065.1300         | 31.48             | -37.44         | 39.02    | -62.20         | -13.00         | 49.20          | 235            | 352          | Vertical |



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**Test Band = LTE Band4\_ TM1****Test Channel = High****Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| 1   | 3472.1800          | 61.21             | -46.27         | 29.50    | -50.82         | -13.00         | 37.82          | 256            | 352          | Horizontal |
| 2   | 5208.2700          | 48.62             | -45.26         | 32.98    | -58.92         | -13.00         | 45.92          | 145            | 60           | Horizontal |
| 3   | 6944.3600          | 45.93             | -43.85         | 36.01    | -57.17         | -13.00         | 44.17          | 169            | 4            | Horizontal |
| 4   | 8680.4500          | 40.53             | -41.62         | 37.88    | -58.47         | -13.00         | 45.47          | 182            | 4            | Horizontal |
| 5   | 10416.5400         | 34.22             | -38.97         | 38.88    | -61.14         | -13.00         | 48.14          | 103            | 314          | Horizontal |
| 6   | 12152.6300         | 32.45             | -37.42         | 39.09    | -61.14         | -13.00         | 48.14          | 254            | 14           | Horizontal |

**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| 1   | 3472.1800          | 58.42             | -46.27         | 29.50    | -53.61         | -13.00         | 40.61          | 285            | 163          | Vertical |
| 2   | 5208.2700          | 49.50             | -45.26         | 32.98    | -58.04         | -13.00         | 45.04          | 147            | 331          | Vertical |
| 3   | 6944.3600          | 46.69             | -43.85         | 36.01    | -56.41         | -13.00         | 43.41          | 196            | 30           | Vertical |
| 4   | 8680.4500          | 42.01             | -41.62         | 37.88    | -56.99         | -13.00         | 43.99          | 153            | 163          | Vertical |
| 5   | 10416.5400         | 34.92             | -38.97         | 38.88    | -60.44         | -13.00         | 47.44          | 165            | 14           | Vertical |
| 6   | 12152.6300         | 32.06             | -37.42         | 39.09    | -61.53         | -13.00         | 48.53          | 143            | 179          | 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) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## 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               | 1.20           | 0.000693        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VN            | NT               | -1.00          | -0.000577       | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VH            | NT               | -0.80          | -0.000462       | PASS    |

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -30              | 0.70           | 0.000404        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -20              | 0.40           | 0.000231        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -10              | 0.30           | 0.000173        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 0                | 0.60           | 0.000346        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 10               | 1.00           | 0.000577        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 20               | 0.30           | 0.000173        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 30               | -0.20          | -0.000115       | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 40               | 0.70           | 0.000404        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 50               | -0.40          | -0.000231       | PASS    |

|MAX( $\Delta f$ )| = 1.2Hz

| Frequency Stability     | Frequency (MHz) | Limit Line      | Result |
|-------------------------|-----------------|-----------------|--------|
| fL -  MAX( $\Delta f$ ) | 1710.568954     | $\geq 1710$ MHz | PASS   |
| fH +  MAX( $\Delta f$ ) | 1754.454182     | $\leq 1755$ MHz |        |

---End of Attachment---



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