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# Appendix B.3

## LTE Band 2



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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  
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号厂房南部 邮编: 215000

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

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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 |
|-------|-----------|------------|---------|------------------|-------------|-----------|------------|---------|
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#0            | 22.44       | 24.37     | 33         | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#2            | 22.54       | 24.47     | 33         | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#5            | 22.41       | 24.34     | 33         | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 6RB#0            | 21.56       | 23.49     | 33         | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#0            | 22.35       | 24.28     | 33         | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#2            | 22.47       | 24.4      | 33         | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#5            | 22.35       | 24.28     | 33         | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 6RB#0            | 21.44       | 23.37     | 33         | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#0            | 22.26       | 24.19     | 33         | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#2            | 22.44       | 24.37     | 33         | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#5            | 22.29       | 24.22     | 33         | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 6RB#0            | 21.34       | 23.27     | 33         | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#0            | 21.89       | 23.82     | 33         | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#2            | 21.83       | 23.76     | 33         | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#5            | 21.76       | 23.69     | 33         | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 6RB#0            | 20.68       | 22.61     | 33         | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#0            | 21.7        | 23.63     | 33         | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#2            | 21.83       | 23.76     | 33         | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#5            | 21.7        | 23.63     | 33         | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 6RB#0            | 20.54       | 22.47     | 33         | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 1RB#0            | 21.66       | 23.59     | 33         | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 1RB#2            | 21.64       | 23.57     | 33         | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 1RB#5            | 21.63       | 23.56     | 33         | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 6RB#0            | 20.43       | 22.36     | 33         | PASS    |
| Band2 | 1.4MHz    | 64QAM      | 18607   | 1RB#0            | 20.78       | 22.71     | 33         | PASS    |
| Band2 | 1.4MHz    | 64QAM      | 18607   | 1RB#2            | 20.88       | 22.81     | 33         | PASS    |
| Band2 | 1.4MHz    | 64QAM      | 18607   | 1RB#5            | 20.67       | 22.6      | 33         | 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号厂房南面 邮编: 215000

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|-------|--------|-------|-------|--------|-------|-------|----|------|
| Band2 | 1.4MHz | 64QAM | 18607 | 6RB#0  | 19.64 | 21.57 | 33 | PASS |
| Band2 | 1.4MHz | 64QAM | 18900 | 1RB#0  | 20.66 | 22.59 | 33 | PASS |
| Band2 | 1.4MHz | 64QAM | 18900 | 1RB#2  | 20.94 | 22.87 | 33 | PASS |
| Band2 | 1.4MHz | 64QAM | 18900 | 1RB#5  | 20.61 | 22.54 | 33 | PASS |
| Band2 | 1.4MHz | 64QAM | 18900 | 6RB#0  | 19.5  | 21.43 | 33 | PASS |
| Band2 | 1.4MHz | 64QAM | 19193 | 1RB#0  | 20.48 | 22.41 | 33 | PASS |
| Band2 | 1.4MHz | 64QAM | 19193 | 1RB#2  | 20.58 | 22.51 | 33 | PASS |
| Band2 | 1.4MHz | 64QAM | 19193 | 1RB#5  | 20.45 | 22.38 | 33 | PASS |
| Band2 | 1.4MHz | 64QAM | 19193 | 6RB#0  | 19.44 | 21.37 | 33 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 1RB#0  | 22.56 | 24.49 | 33 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 1RB#8  | 22.54 | 24.47 | 33 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 1RB#14 | 22.46 | 24.39 | 33 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 15RB#0 | 21.62 | 23.55 | 33 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 1RB#0  | 22.4  | 24.33 | 33 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 1RB#8  | 22.48 | 24.41 | 33 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 1RB#14 | 22.35 | 24.28 | 33 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 15RB#0 | 21.47 | 23.4  | 33 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 1RB#0  | 22.36 | 24.29 | 33 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 1RB#8  | 22.41 | 24.34 | 33 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 1RB#14 | 22.26 | 24.19 | 33 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 15RB#0 | 21.43 | 23.36 | 33 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 1RB#0  | 21.8  | 23.73 | 33 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 1RB#8  | 21.84 | 23.77 | 33 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 1RB#14 | 21.72 | 23.65 | 33 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 15RB#0 | 20.66 | 22.59 | 33 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 1RB#0  | 21.76 | 23.69 | 33 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 1RB#8  | 21.82 | 23.75 | 33 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 1RB#14 | 21.69 | 23.62 | 33 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 15RB#0 | 20.45 | 22.38 | 33 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 1RB#0  | 21.74 | 23.67 | 33 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 1RB#8  | 21.79 | 23.72 | 33 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 1RB#14 | 21.64 | 23.57 | 33 | PASS |



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| Band2 | 3MHz | 16QAM | 19185 | 15RB#0 | 20.47 | 22.4  | 33 | PASS |
| Band2 | 3MHz | 64QAM | 18615 | 1RB#0  | 20.83 | 22.76 | 33 | PASS |
| Band2 | 3MHz | 64QAM | 18615 | 1RB#8  | 20.92 | 22.85 | 33 | PASS |
| Band2 | 3MHz | 64QAM | 18615 | 1RB#14 | 20.83 | 22.76 | 33 | PASS |
| Band2 | 3MHz | 64QAM | 18615 | 15RB#0 | 19.67 | 21.6  | 33 | PASS |
| Band2 | 3MHz | 64QAM | 18900 | 1RB#0  | 20.69 | 22.62 | 33 | PASS |
| Band2 | 3MHz | 64QAM | 18900 | 1RB#8  | 20.75 | 22.68 | 33 | PASS |
| Band2 | 3MHz | 64QAM | 18900 | 1RB#14 | 20.63 | 22.56 | 33 | PASS |
| Band2 | 3MHz | 64QAM | 18900 | 15RB#0 | 19.48 | 21.41 | 33 | PASS |
| Band2 | 3MHz | 64QAM | 19185 | 1RB#0  | 20.64 | 22.57 | 33 | PASS |
| Band2 | 3MHz | 64QAM | 19185 | 1RB#8  | 20.54 | 22.47 | 33 | PASS |
| Band2 | 3MHz | 64QAM | 19185 | 1RB#14 | 20.5  | 22.43 | 33 | PASS |
| Band2 | 3MHz | 64QAM | 19185 | 15RB#0 | 19.53 | 21.46 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 1RB#0  | 22.45 | 24.38 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 1RB#12 | 22.54 | 24.47 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 1RB#24 | 22.35 | 24.28 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 25RB#0 | 21.54 | 23.47 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 1RB#0  | 22.36 | 24.29 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 1RB#12 | 22.47 | 24.4  | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 1RB#24 | 22.39 | 24.32 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 25RB#0 | 21.44 | 23.37 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 1RB#0  | 22.25 | 24.18 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 1RB#12 | 22.41 | 24.34 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 1RB#24 | 22.2  | 24.13 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 25RB#0 | 21.34 | 23.27 | 33 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 1RB#0  | 21.77 | 23.7  | 33 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 1RB#12 | 21.83 | 23.76 | 33 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 1RB#24 | 21.81 | 23.74 | 33 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 25RB#0 | 20.62 | 22.55 | 33 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 1RB#0  | 21.64 | 23.57 | 33 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 1RB#12 | 21.79 | 23.72 | 33 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 1RB#24 | 21.76 | 23.69 | 33 | PASS |



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| Band2 | 5MHz  | 16QAM | 18900 | 25RB#0 | 20.55 | 22.48 | 33 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 1RB#0  | 21.53 | 23.46 | 33 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 1RB#12 | 21.77 | 23.7  | 33 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 1RB#24 | 21.58 | 23.51 | 33 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 25RB#0 | 20.46 | 22.39 | 33 | PASS |
| Band2 | 5MHz  | 64QAM | 18625 | 1RB#0  | 20.7  | 22.63 | 33 | PASS |
| Band2 | 5MHz  | 64QAM | 18625 | 1RB#12 | 20.77 | 22.7  | 33 | PASS |
| Band2 | 5MHz  | 64QAM | 18625 | 1RB#24 | 20.65 | 22.58 | 33 | PASS |
| Band2 | 5MHz  | 64QAM | 18625 | 25RB#0 | 19.61 | 21.54 | 33 | PASS |
| Band2 | 5MHz  | 64QAM | 18900 | 1RB#0  | 20.68 | 22.61 | 33 | PASS |
| Band2 | 5MHz  | 64QAM | 18900 | 1RB#12 | 20.77 | 22.7  | 33 | PASS |
| Band2 | 5MHz  | 64QAM | 18900 | 1RB#24 | 20.6  | 22.53 | 33 | PASS |
| Band2 | 5MHz  | 64QAM | 18900 | 25RB#0 | 19.51 | 21.44 | 33 | PASS |
| Band2 | 5MHz  | 64QAM | 19175 | 1RB#0  | 20.6  | 22.53 | 33 | PASS |
| Band2 | 5MHz  | 64QAM | 19175 | 1RB#12 | 20.59 | 22.52 | 33 | PASS |
| Band2 | 5MHz  | 64QAM | 19175 | 1RB#24 | 20.56 | 22.49 | 33 | PASS |
| Band2 | 5MHz  | 64QAM | 19175 | 25RB#0 | 19.46 | 21.39 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#0  | 22.16 | 24.09 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#24 | 22.55 | 24.48 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#49 | 22.21 | 24.14 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 50RB#0 | 21.51 | 23.44 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#0  | 22.09 | 24.02 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#24 | 22.51 | 24.44 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#49 | 22.23 | 24.16 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 50RB#0 | 21.37 | 23.3  | 33 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#0  | 22.29 | 24.22 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#24 | 22.42 | 24.35 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#49 | 22.28 | 24.21 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 50RB#0 | 21.28 | 23.21 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#0  | 21.35 | 23.28 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#24 | 21.83 | 23.76 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#49 | 21.54 | 23.47 | 33 | PASS |



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| Band2 | 10MHz | 16QAM | 18650 | 50RB#0 | 20.46 | 22.39 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#0  | 21.53 | 23.46 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#24 | 21.85 | 23.78 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#49 | 21.56 | 23.49 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 50RB#0 | 20.5  | 22.43 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#0  | 21.63 | 23.56 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#24 | 21.78 | 23.71 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#49 | 21.75 | 23.68 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 50RB#0 | 20.31 | 22.24 | 33 | PASS |
| Band2 | 10MHz | 64QAM | 18650 | 1RB#0  | 20.4  | 22.33 | 33 | PASS |
| Band2 | 10MHz | 64QAM | 18650 | 1RB#24 | 20.69 | 22.62 | 33 | PASS |
| Band2 | 10MHz | 64QAM | 18650 | 1RB#49 | 20.52 | 22.45 | 33 | PASS |
| Band2 | 10MHz | 64QAM | 18650 | 50RB#0 | 19.6  | 21.53 | 33 | PASS |
| Band2 | 10MHz | 64QAM | 18900 | 1RB#0  | 20.19 | 22.12 | 33 | PASS |
| Band2 | 10MHz | 64QAM | 18900 | 1RB#24 | 20.65 | 22.58 | 33 | PASS |
| Band2 | 10MHz | 64QAM | 18900 | 1RB#49 | 20.44 | 22.37 | 33 | PASS |
| Band2 | 10MHz | 64QAM | 18900 | 50RB#0 | 19.47 | 21.4  | 33 | PASS |
| Band2 | 10MHz | 64QAM | 19150 | 1RB#0  | 20.52 | 22.45 | 33 | PASS |
| Band2 | 10MHz | 64QAM | 19150 | 1RB#24 | 20.67 | 22.6  | 33 | PASS |
| Band2 | 10MHz | 64QAM | 19150 | 1RB#49 | 20.65 | 22.58 | 33 | PASS |
| Band2 | 10MHz | 64QAM | 19150 | 50RB#0 | 19.31 | 21.24 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#0  | 22.14 | 24.07 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#38 | 22.33 | 24.26 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#74 | 22.26 | 24.19 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 75RB#0 | 21.41 | 23.34 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#0  | 22.25 | 24.18 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#38 | 22.33 | 24.26 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#74 | 22.37 | 24.3  | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 75RB#0 | 21.2  | 23.13 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#0  | 22.03 | 23.96 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#38 | 22.29 | 24.22 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#74 | 22.2  | 24.13 | 33 | PASS |



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|       |       |       |       |         |       |       |    |      |
|-------|-------|-------|-------|---------|-------|-------|----|------|
| Band2 | 15MHz | QPSK  | 19125 | 75RB#0  | 21.16 | 23.09 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#0   | 21.53 | 23.46 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#38  | 21.73 | 23.66 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#74  | 21.54 | 23.47 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 75RB#0  | 20.45 | 22.38 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#0   | 21.58 | 23.51 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#38  | 21.65 | 23.58 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#74  | 21.6  | 23.53 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 75RB#0  | 20.18 | 22.11 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#0   | 21.5  | 23.43 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#38  | 21.62 | 23.55 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#74  | 21.47 | 23.4  | 33 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 75RB#0  | 20.19 | 22.12 | 33 | PASS |
| Band2 | 15MHz | 64QAM | 18675 | 1RB#0   | 20.43 | 22.36 | 33 | PASS |
| Band2 | 15MHz | 64QAM | 18675 | 1RB#38  | 20.62 | 22.55 | 33 | PASS |
| Band2 | 15MHz | 64QAM | 18675 | 1RB#74  | 20.54 | 22.47 | 33 | PASS |
| Band2 | 15MHz | 64QAM | 18675 | 75RB#0  | 19.47 | 21.4  | 33 | PASS |
| Band2 | 15MHz | 64QAM | 18900 | 1RB#0   | 20.43 | 22.36 | 33 | PASS |
| Band2 | 15MHz | 64QAM | 18900 | 1RB#38  | 20.66 | 22.59 | 33 | PASS |
| Band2 | 15MHz | 64QAM | 18900 | 1RB#74  | 20.59 | 22.52 | 33 | PASS |
| Band2 | 15MHz | 64QAM | 18900 | 75RB#0  | 19.25 | 21.18 | 33 | PASS |
| Band2 | 15MHz | 64QAM | 19125 | 1RB#0   | 20.37 | 22.3  | 33 | PASS |
| Band2 | 15MHz | 64QAM | 19125 | 1RB#38  | 20.43 | 22.36 | 33 | PASS |
| Band2 | 15MHz | 64QAM | 19125 | 1RB#74  | 20.49 | 22.42 | 33 | PASS |
| Band2 | 15MHz | 64QAM | 19125 | 75RB#0  | 19.14 | 21.07 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#0   | 22.06 | 23.99 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#49  | 22    | 23.93 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#99  | 21.84 | 23.77 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 100RB#0 | 21.15 | 23.08 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#0   | 22.06 | 23.99 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#49  | 22.05 | 23.98 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#99  | 21.95 | 23.88 | 33 | PASS |



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| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | 21.04 | 22.97 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#0   | 21.99 | 23.92 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#49  | 21.91 | 23.84 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#99  | 21.89 | 23.82 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | 21.04 | 22.97 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#0   | 21.38 | 23.31 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#49  | 21.52 | 23.45 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#99  | 21.52 | 23.45 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | 20.13 | 22.06 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#0   | 21.3  | 23.23 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#49  | 21.34 | 23.27 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#99  | 21.43 | 23.36 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 20.19 | 22.12 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#0   | 21.15 | 23.08 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#49  | 21.19 | 23.12 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#99  | 21.28 | 23.21 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 19.96 | 21.89 | 33 | PASS |
| Band2 | 20MHz | 64QAM | 18700 | 1RB#0   | 20.16 | 22.09 | 33 | PASS |
| Band2 | 20MHz | 64QAM | 18700 | 1RB#49  | 20.31 | 22.24 | 33 | PASS |
| Band2 | 20MHz | 64QAM | 18700 | 1RB#99  | 20.32 | 22.25 | 33 | PASS |
| Band2 | 20MHz | 64QAM | 18700 | 100RB#0 | 19.24 | 21.17 | 33 | PASS |
| Band2 | 20MHz | 64QAM | 18900 | 1RB#0   | 20.21 | 22.14 | 33 | PASS |
| Band2 | 20MHz | 64QAM | 18900 | 1RB#49  | 20.23 | 22.16 | 33 | PASS |
| Band2 | 20MHz | 64QAM | 18900 | 1RB#99  | 20.35 | 22.28 | 33 | PASS |
| Band2 | 20MHz | 64QAM | 18900 | 100RB#0 | 19.21 | 21.14 | 33 | PASS |
| Band2 | 20MHz | 64QAM | 19100 | 1RB#0   | 20.21 | 22.14 | 33 | PASS |
| Band2 | 20MHz | 64QAM | 19100 | 1RB#49  | 20.27 | 22.2  | 33 | PASS |
| Band2 | 20MHz | 64QAM | 19100 | 1RB#99  | 20.32 | 22.25 | 33 | PASS |
| Band2 | 20MHz | 64QAM | 19100 | 100RB#0 | 18.87 | 20.8  | 33 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0          | 5.44       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0          | 5.36       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0          | 5.48       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0          | 6.10       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 100RB#0          | 6.12       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 100RB#0          | 6.18       | 13        | PASS    |
| Band2 | 20MHz     | 64QAM      | 18700   | 100RB#0          | 6.64       | 13        | PASS    |
| Band2 | 20MHz     | 64QAM      | 18900   | 100RB#0          | 6.68       | 13        | PASS    |
| Band2 | 20MHz     | 64QAM      | 19100   | 100RB#0          | 6.68       | 13        | PASS    |



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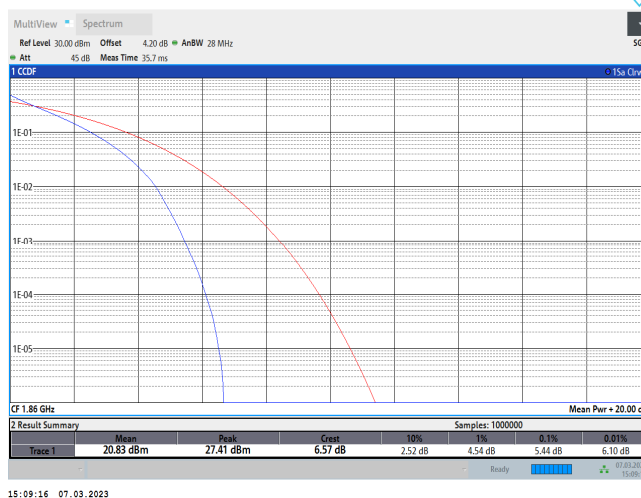
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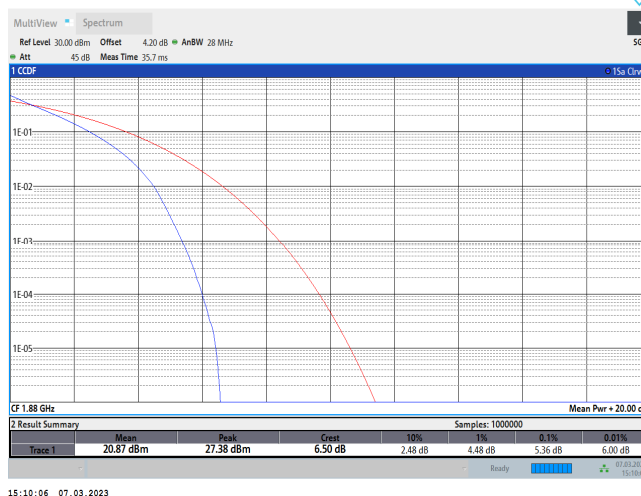
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### Test Graphs

Band2-20MHz-QPSK-18700-100RB#0



Band2-20MHz-QPSK-18900-100RB#0



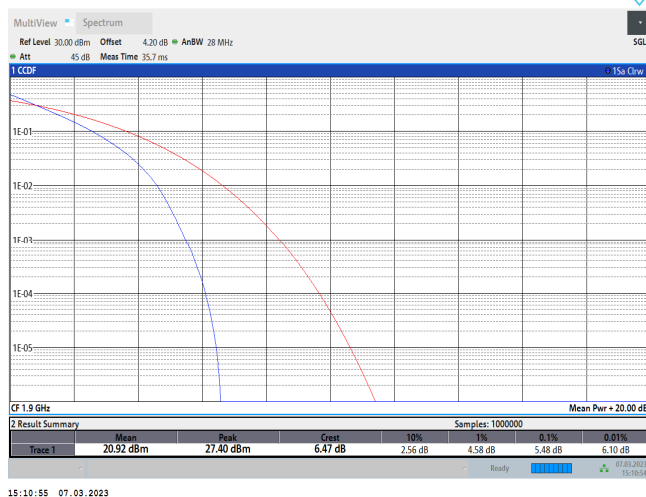
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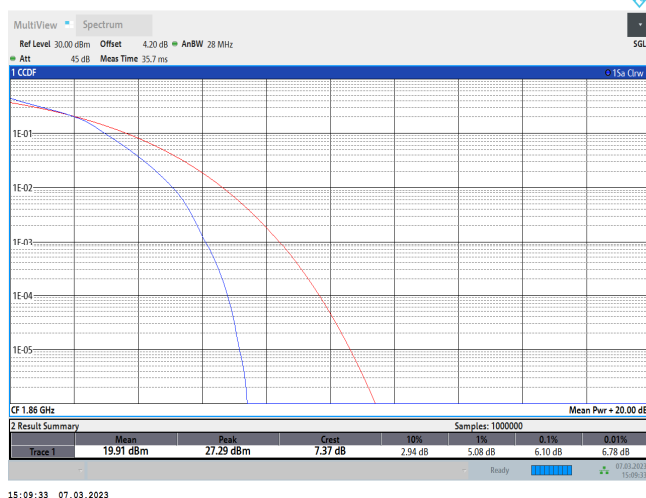
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### Band2-20MHz-QPSK-19100-100RB#0



### Band2-20MHz-16QAM-18700-100RB#0



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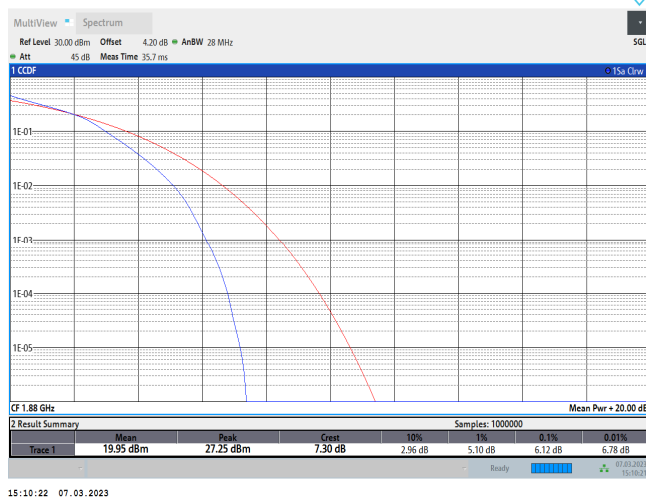
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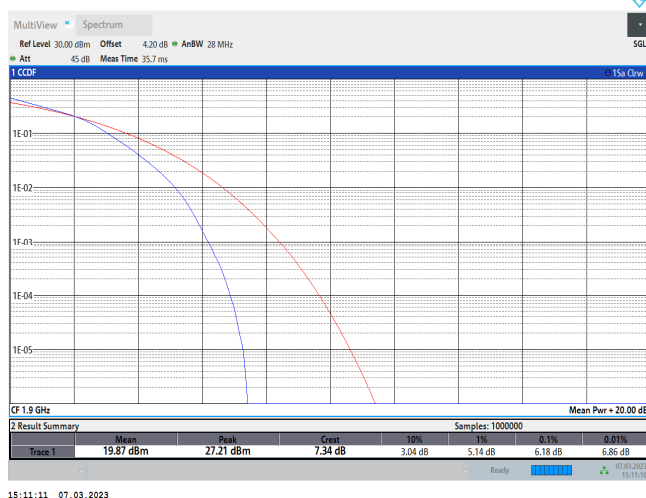
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### Band2-20MHz-16QAM-19100-100RB#0



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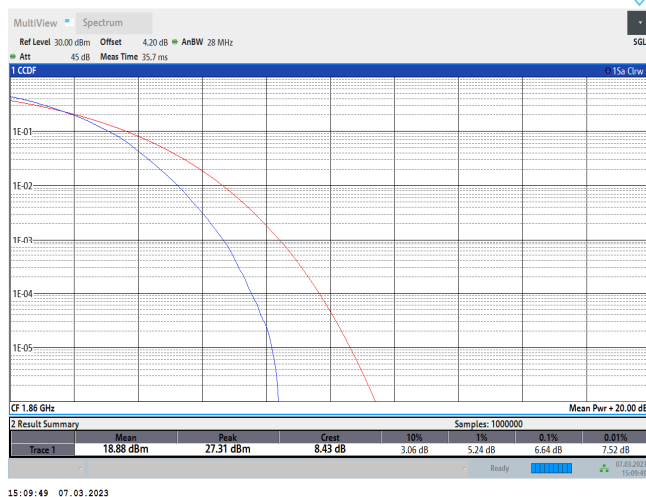
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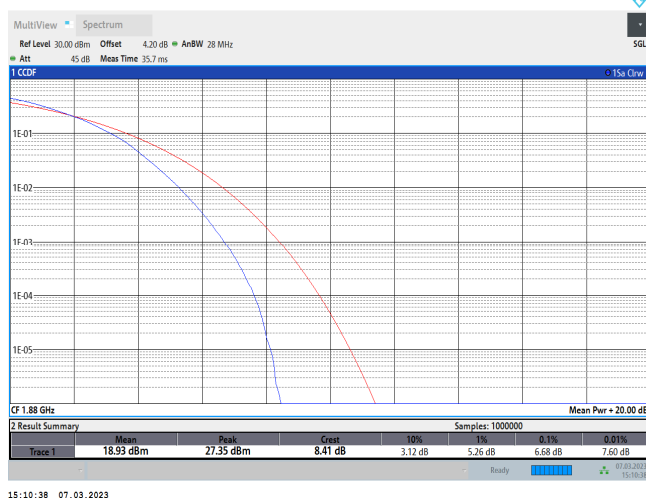
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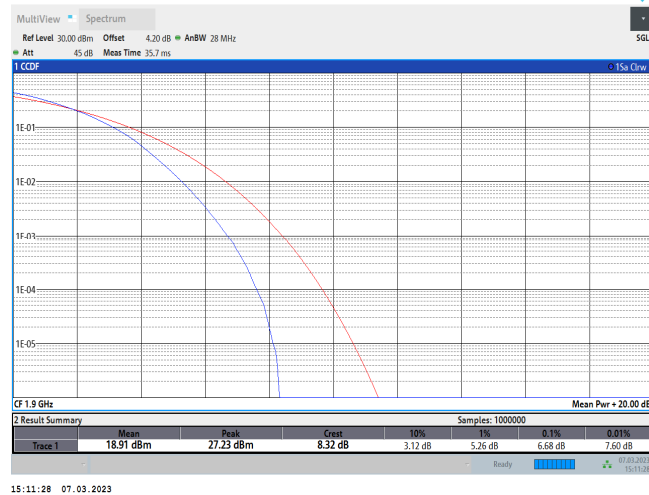
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### Band2-20MHz-64QAM-19100-100RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band2 | 1.4MHz    | QPSK       | 18607   | 6RB#0            | 1.085                    | 1.23                 | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 6RB#0            | 1.084                    | 1.23                 | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 6RB#0            | 1.084                    | 1.23                 | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 6RB#0            | 1.092                    | 1.24                 | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 6RB#0            | 1.092                    | 1.24                 | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 6RB#0            | 1.091                    | 1.24                 | PASS    |
| Band2 | 1.4MHz    | 64QAM      | 18607   | 6RB#0            | 1.091                    | 1.24                 | PASS    |
| Band2 | 1.4MHz    | 64QAM      | 18900   | 6RB#0            | 1.09                     | 1.24                 | PASS    |
| Band2 | 1.4MHz    | 64QAM      | 19193   | 6RB#0            | 1.09                     | 1.24                 | PASS    |
| Band2 | 3MHz      | QPSK       | 18615   | 15RB#0           | 2.694                    | 2.97                 | PASS    |
| Band2 | 3MHz      | QPSK       | 18900   | 15RB#0           | 2.691                    | 2.97                 | PASS    |
| Band2 | 3MHz      | QPSK       | 19185   | 15RB#0           | 2.693                    | 2.96                 | PASS    |
| Band2 | 3MHz      | 16QAM      | 18615   | 15RB#0           | 2.686                    | 2.99                 | PASS    |
| Band2 | 3MHz      | 16QAM      | 18900   | 15RB#0           | 2.685                    | 2.98                 | PASS    |
| Band2 | 3MHz      | 16QAM      | 19185   | 15RB#0           | 2.686                    | 2.98                 | PASS    |
| Band2 | 3MHz      | 64QAM      | 18615   | 15RB#0           | 2.69                     | 2.95                 | PASS    |
| Band2 | 3MHz      | 64QAM      | 18900   | 15RB#0           | 2.686                    | 2.99                 | PASS    |
| Band2 | 3MHz      | 64QAM      | 19185   | 15RB#0           | 2.685                    | 2.96                 | PASS    |
| Band2 | 5MHz      | QPSK       | 18625   | 25RB#0           | 4.47                     | 4.90                 | PASS    |
| Band2 | 5MHz      | QPSK       | 18900   | 25RB#0           | 4.465                    | 4.88                 | PASS    |
| Band2 | 5MHz      | QPSK       | 19175   | 25RB#0           | 4.467                    | 4.90                 | PASS    |
| Band2 | 5MHz      | 16QAM      | 18625   | 25RB#0           | 4.469                    | 4.89                 | PASS    |
| Band2 | 5MHz      | 16QAM      | 18900   | 25RB#0           | 4.462                    | 4.90                 | PASS    |
| Band2 | 5MHz      | 16QAM      | 19175   | 25RB#0           | 4.466                    | 4.89                 | PASS    |
| Band2 | 5MHz      | 64QAM      | 18625   | 25RB#0           | 4.473                    | 4.90                 | PASS    |
| Band2 | 5MHz      | 64QAM      | 18900   | 25RB#0           | 4.477                    | 4.92                 | PASS    |
| Band2 | 5MHz      | 64QAM      | 19175   | 25RB#0           | 4.472                    | 4.90                 | PASS    |
| Band2 | 10MHz     | QPSK       | 18650   | 50RB#0           | 8.927                    | 9.64                 | PASS    |
| Band2 | 10MHz     | QPSK       | 18900   | 50RB#0           | 8.926                    | 9.68                 | PASS    |



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|       |       |       |       |         |        |       |      |
|-------|-------|-------|-------|---------|--------|-------|------|
| Band2 | 10MHz | QPSK  | 19150 | 50RB#0  | 8.924  | 9.64  | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 50RB#0  | 8.901  | 9.64  | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 50RB#0  | 8.909  | 9.60  | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 50RB#0  | 8.907  | 9.60  | PASS |
| Band2 | 10MHz | 64QAM | 18650 | 50RB#0  | 8.929  | 9.62  | PASS |
| Band2 | 10MHz | 64QAM | 18900 | 50RB#0  | 8.924  | 9.64  | PASS |
| Band2 | 10MHz | 64QAM | 19150 | 50RB#0  | 8.92   | 9.60  | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 75RB#0  | 13.475 | 14.70 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 75RB#0  | 13.463 | 14.76 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 75RB#0  | 13.467 | 14.70 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 75RB#0  | 13.433 | 14.70 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 75RB#0  | 13.444 | 14.73 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 75RB#0  | 13.445 | 14.82 | PASS |
| Band2 | 15MHz | 64QAM | 18675 | 75RB#0  | 13.446 | 14.79 | PASS |
| Band2 | 15MHz | 64QAM | 18900 | 75RB#0  | 13.416 | 14.82 | PASS |
| Band2 | 15MHz | 64QAM | 19125 | 75RB#0  | 13.437 | 14.79 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 100RB#0 | 17.915 | 19.32 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | 17.901 | 19.40 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | 17.906 | 19.56 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | 17.863 | 19.44 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 17.877 | 19.36 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 17.872 | 19.36 | PASS |
| Band2 | 20MHz | 64QAM | 18700 | 100RB#0 | 17.864 | 19.48 | PASS |
| Band2 | 20MHz | 64QAM | 18900 | 100RB#0 | 17.872 | 19.40 | PASS |
| Band2 | 20MHz | 64QAM | 19100 | 100RB#0 | 17.883 | 19.44 | PASS |



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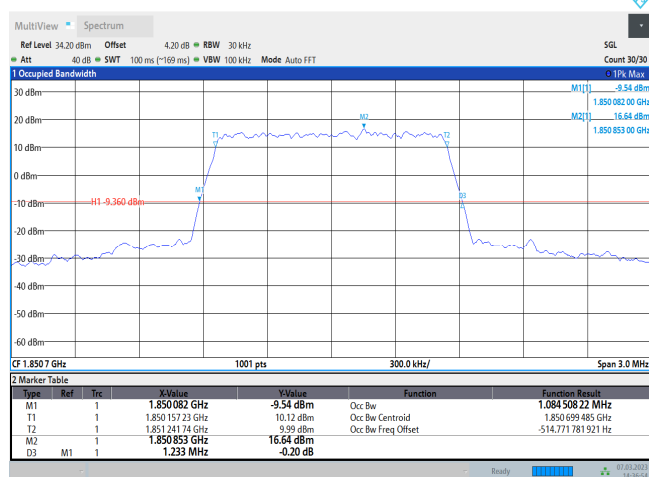
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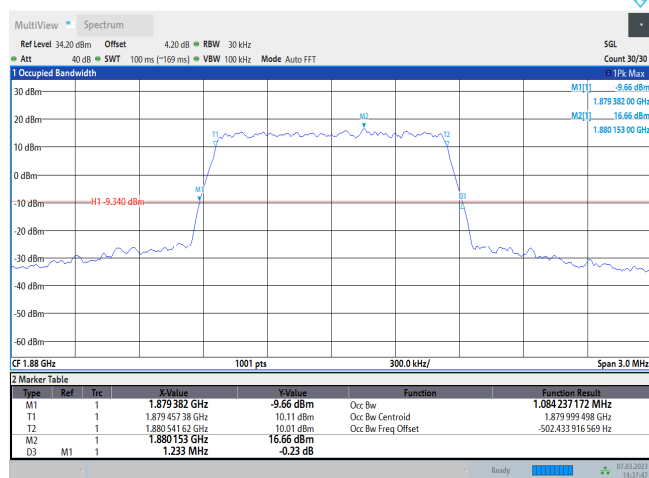
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### Test Graphs

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#### Band2-1.4MHz-QPSK-18900-6RB#0

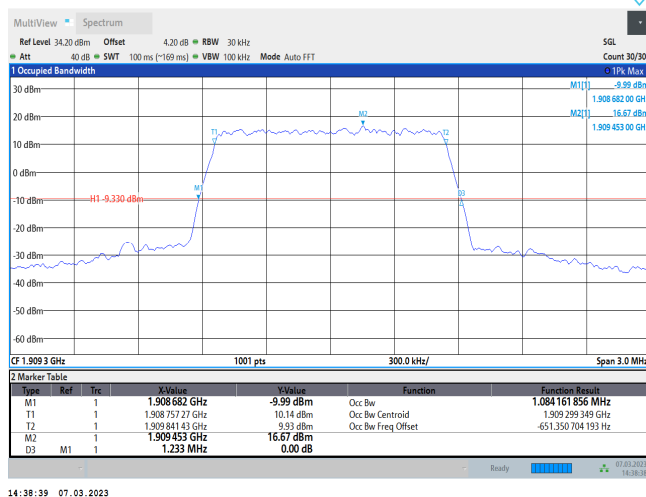


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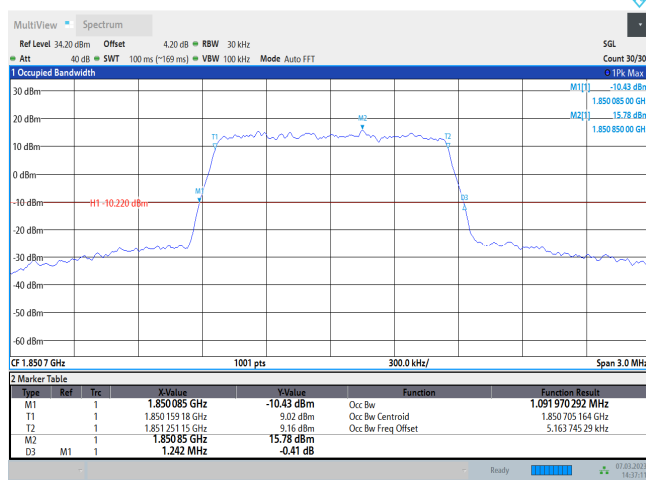
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### Band2-1.4MHz-QPSK-19193-6RB#0



14:38:39 07.03.2023

### Band2-1.4MHz-16QAM-18607-6RB#0



14:37:12 07.03.2023



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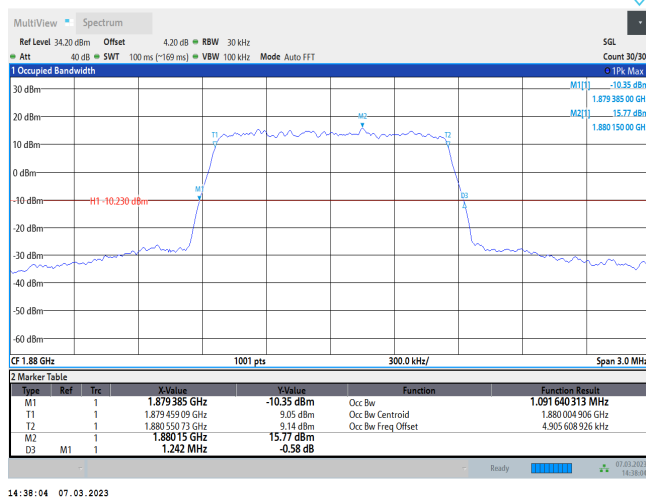
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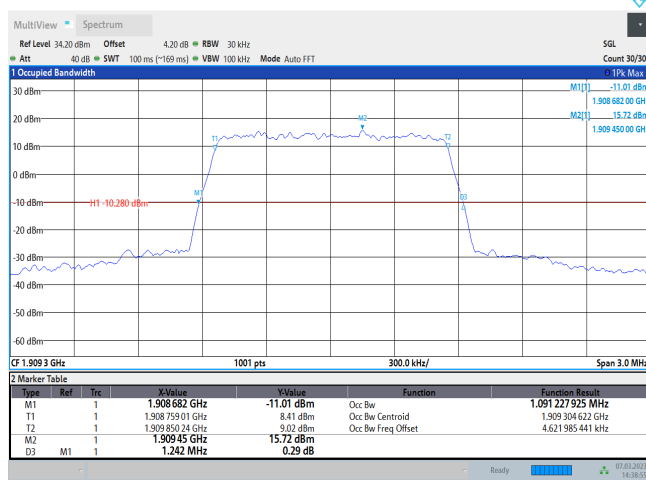
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### Band2-1.4MHz-16QAM-18900-6RB#0



14:38:04 07.03.2023

### Band2-1.4MHz-16QAM-19193-6RB#0



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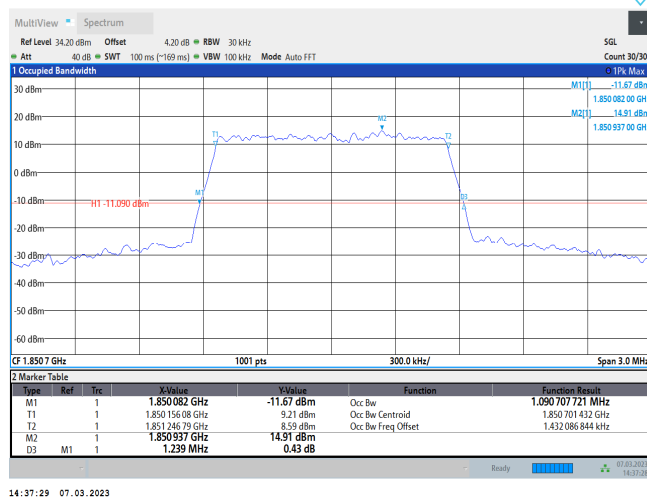
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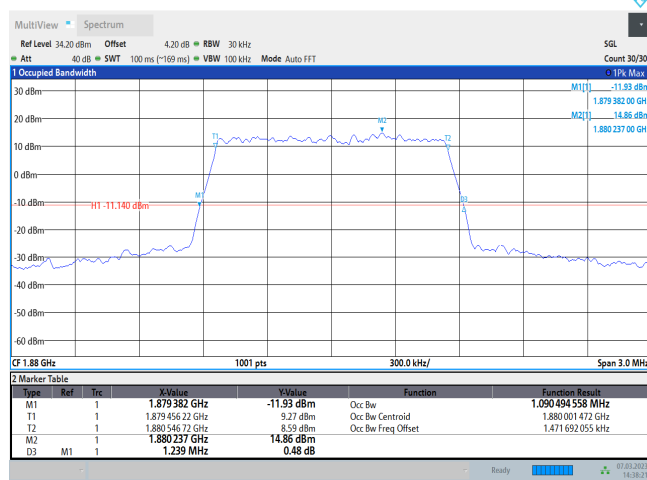
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### Band2-1.4MHz-64QAM-18607-6RB#0



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### Band2-1.4MHz-64QAM-18900-6RB#0



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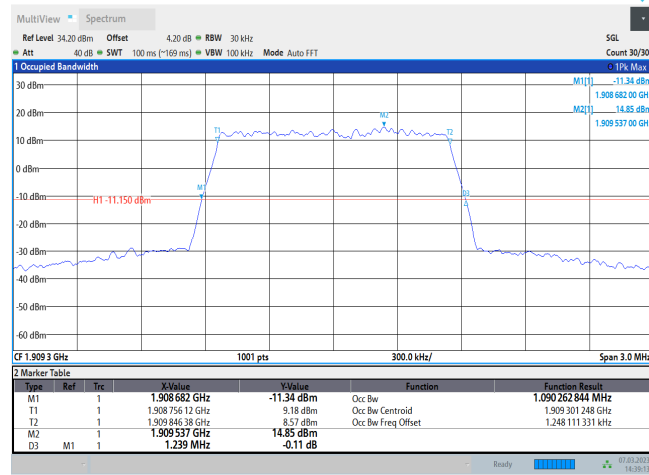
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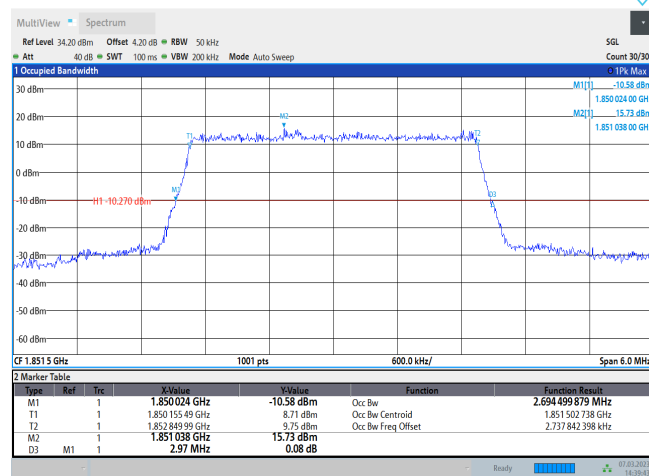
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### Band2-1.4MHz-64QAM-19193-6RB#0



14:39:14 07.03.2023

### Band2-3MHz-QPSK-18615-15RB#0



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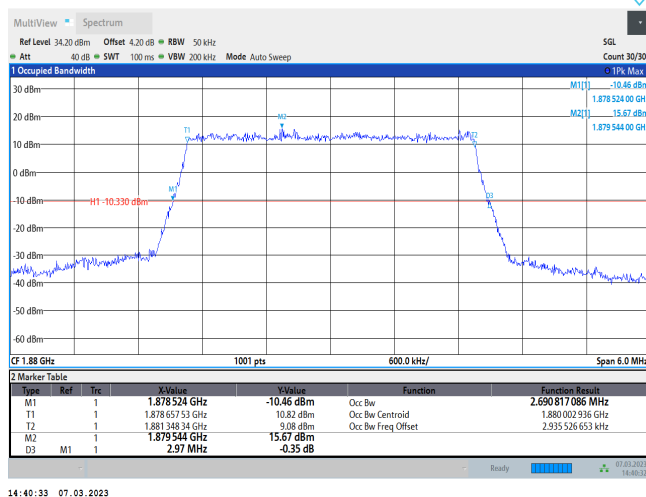
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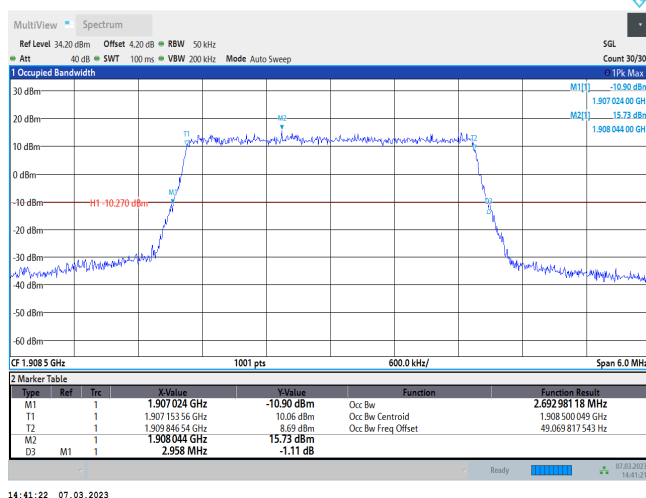
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### Band2-3MHz-QPSK-18900-15RB#0



### Band2-3MHz-QPSK-19185-15RB#0

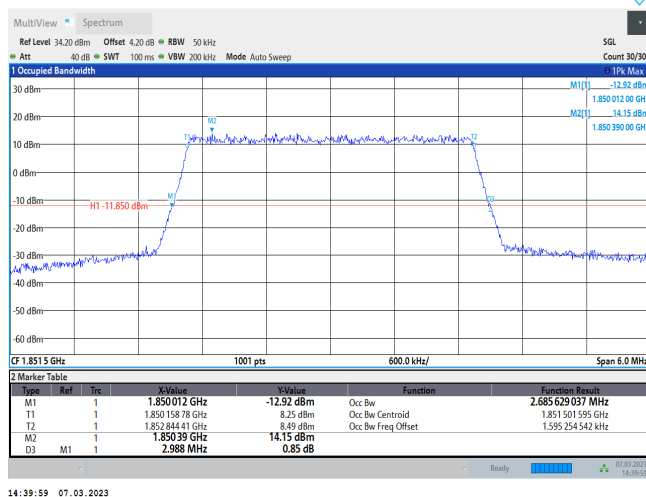


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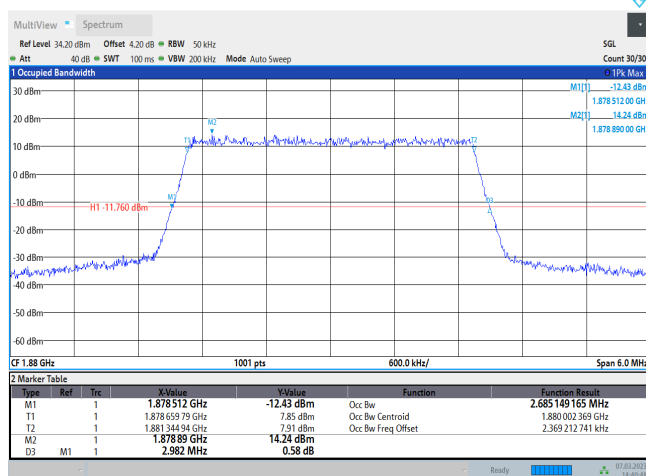
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### Band2-3MHz-16QAM-18615-15RB#0



14:39:59 07.03.2023

### Band2-3MHz-16QAM-18900-15RB#0



14:40:49 07.03.2023



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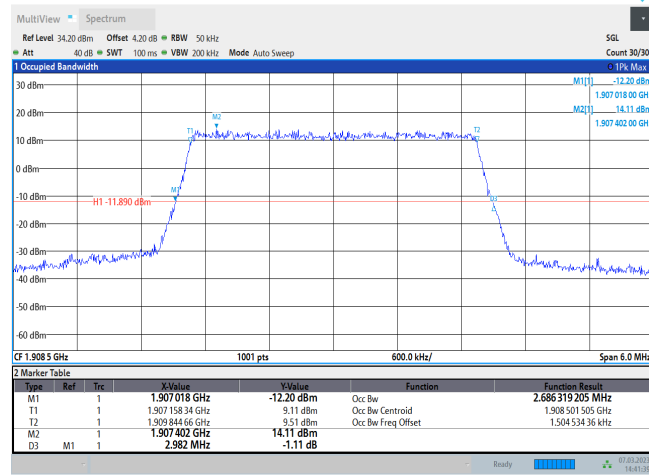
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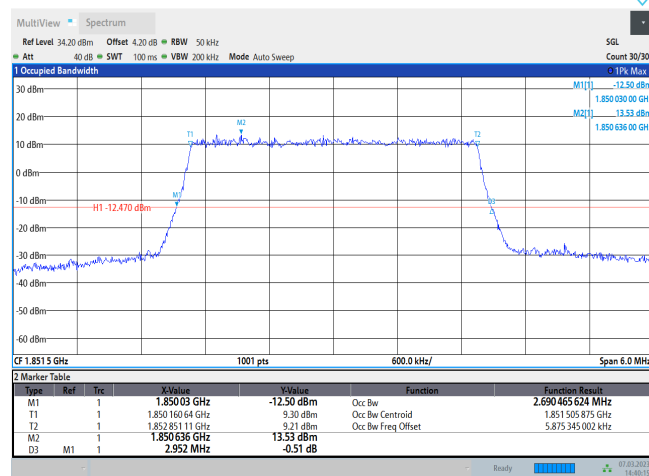
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### Band2-3MHz-16QAM-19185-15RB#0



14:41:39 07.03.2023

### Band2-3MHz-64QAM-18615-15RB#0



14:40:16 07.03.2023



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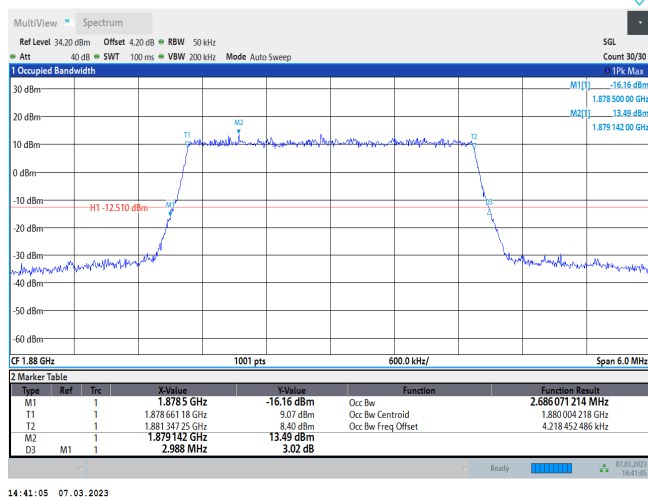
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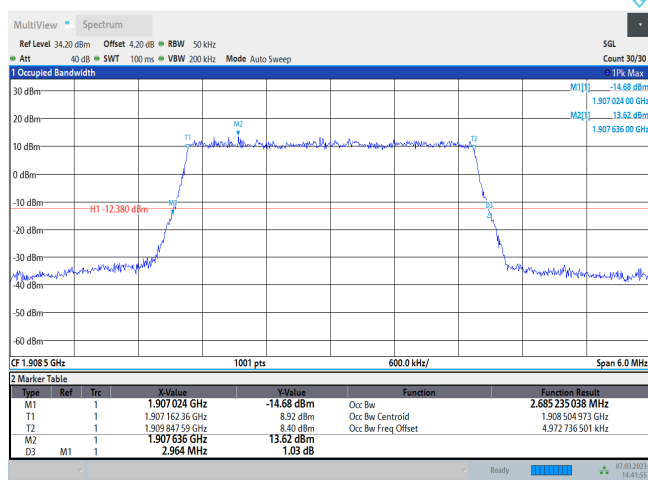
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## Band2-3MHz-64QAM-18900-15RB#0



14:41:05 07.03.2023

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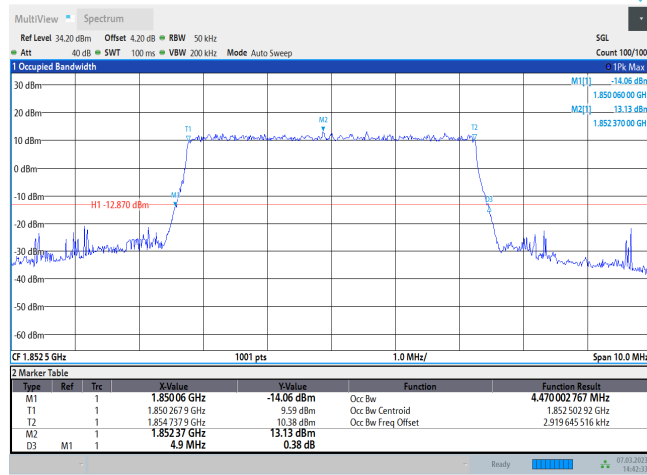
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Report No.: SEWA2211000082RG01

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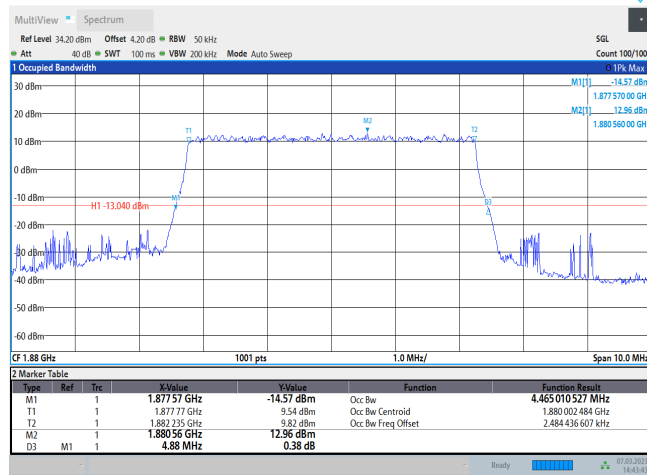
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### Band2-5MHz-QPSK-18625-25RB#0



14:42:34 07.03.2023

### Band2-5MHz-QPSK-18900-25RB#0



14:43:44 07.03.2023



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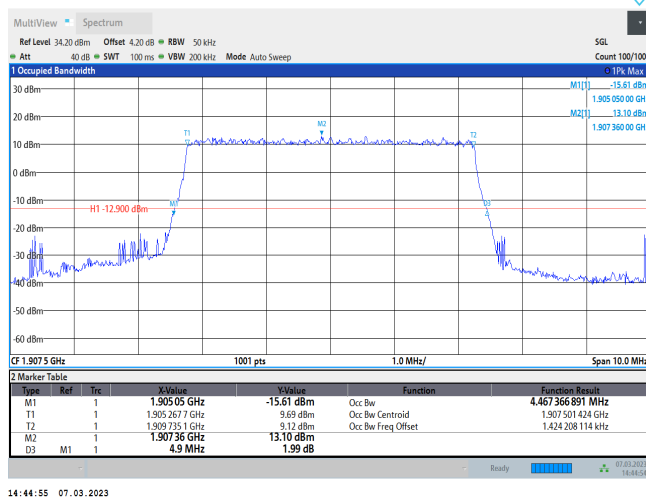
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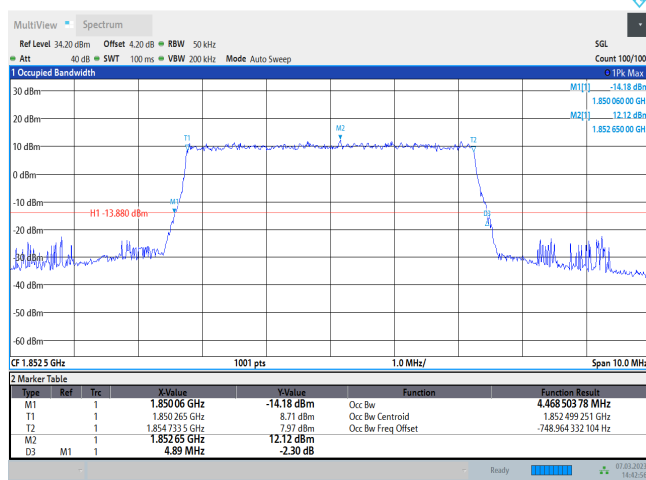
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### Band2-5MHz-QPSK-19175-25RB#0



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### Band2-5MHz-16QAM-18625-25RB#0



14:42:57 07.03.2023



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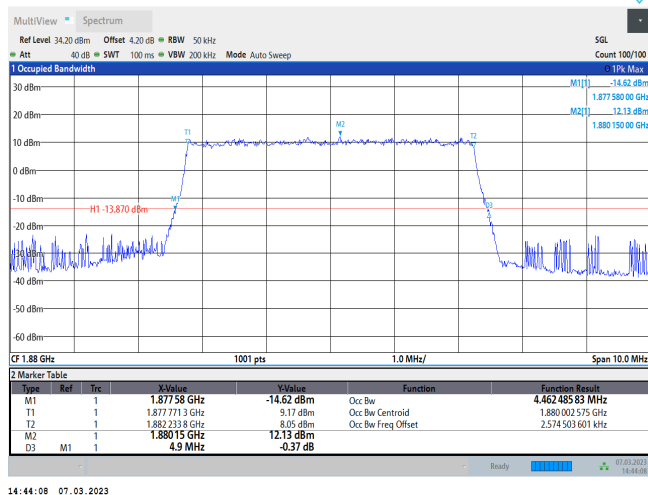
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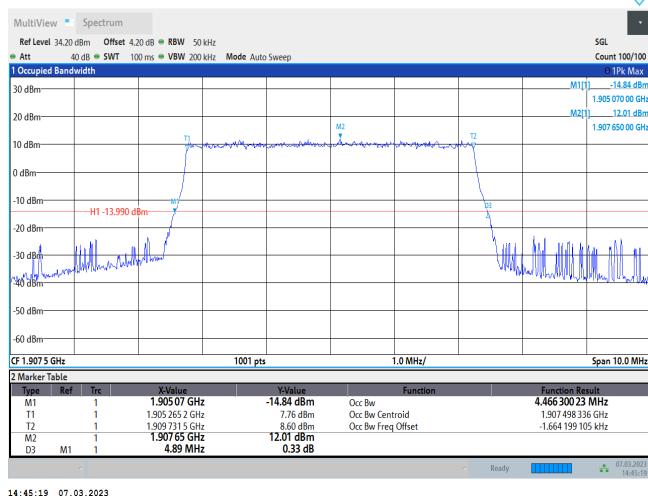
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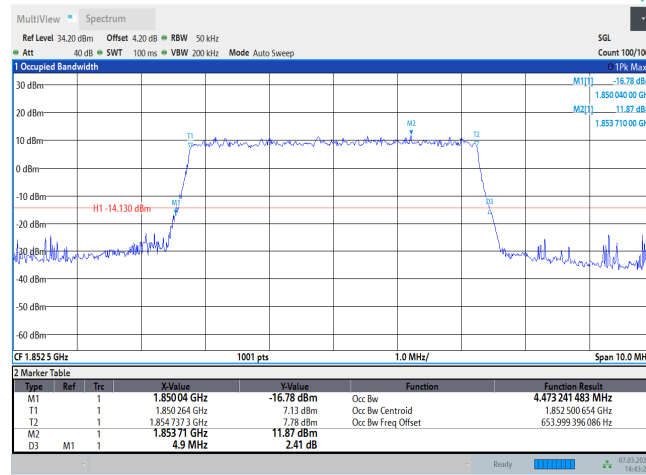


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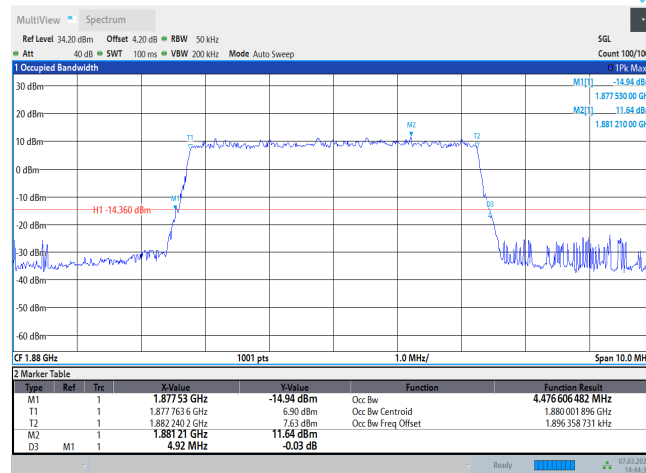
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14:43:21 07.03.2023

### Band2-5MHz-64QAM-18900-25RB#0



14:44:32 07.03.2023



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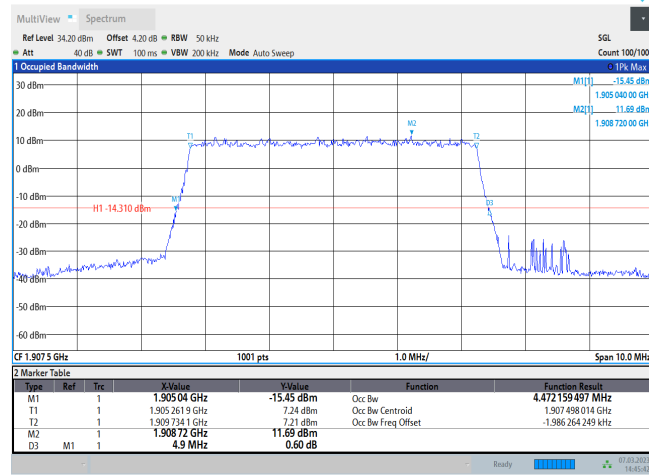
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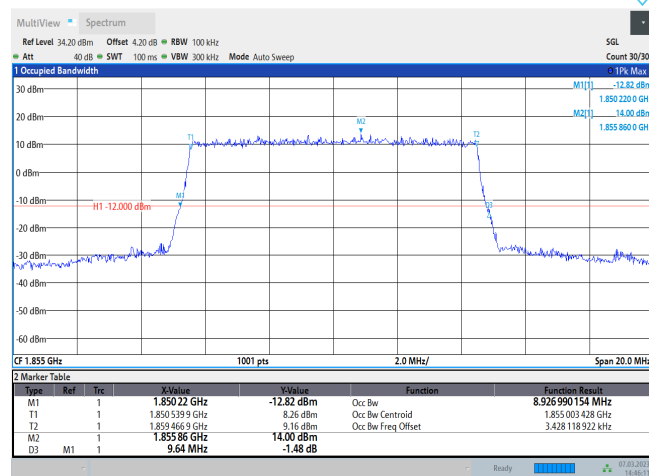
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### Band2-5MHz-64QAM-19175-25RB#0



14:45:43 07.03.2023

### Band2-10MHz-QPSK-18650-50RB#0



14:46:12 07.03.2023



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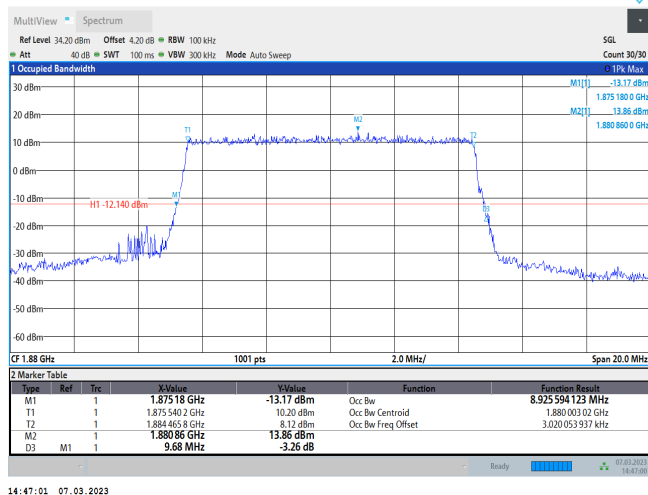
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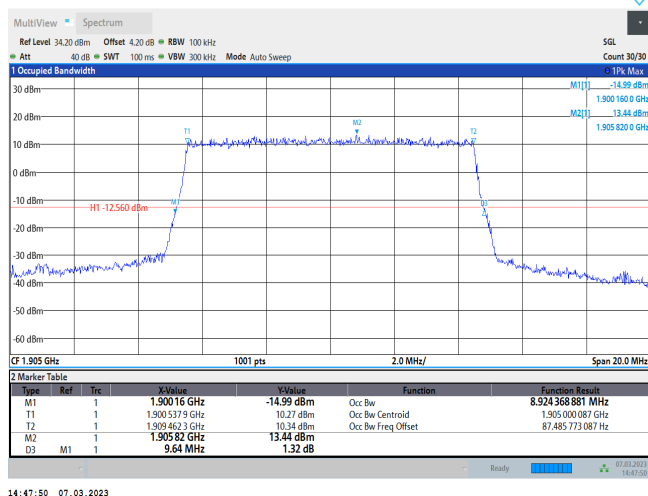
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### Band2-10MHz-QPSK-18900-50RB#0



14:47:01 07.03.2023

### Band2-10MHz-QPSK-19150-50RB#0



14:47:50 07.03.2023



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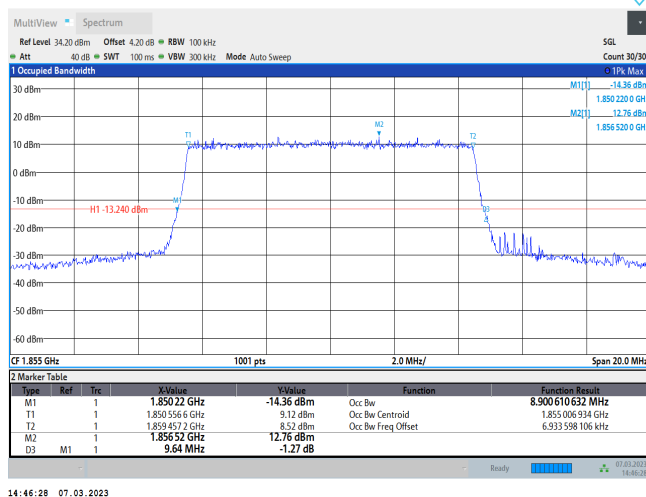
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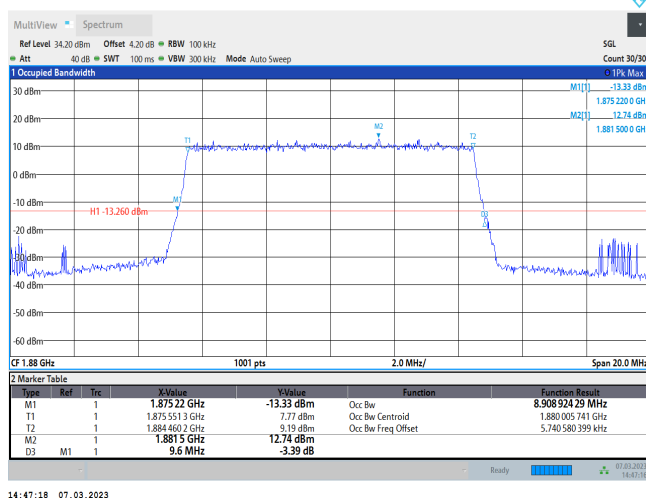
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### Band2-10MHz-16QAM-18650-50RB#0



### Band2-10MHz-16QAM-18900-50RB#0



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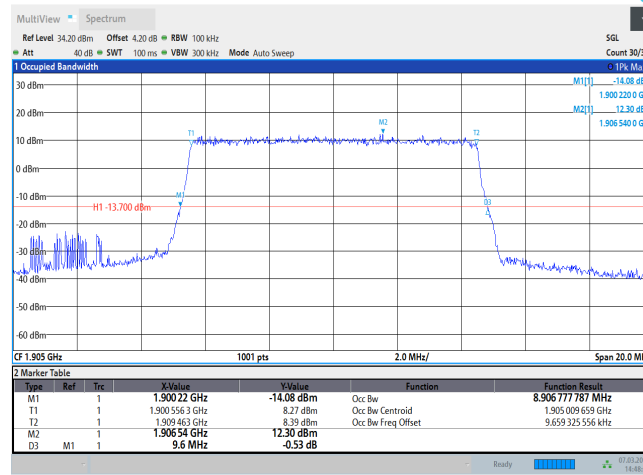
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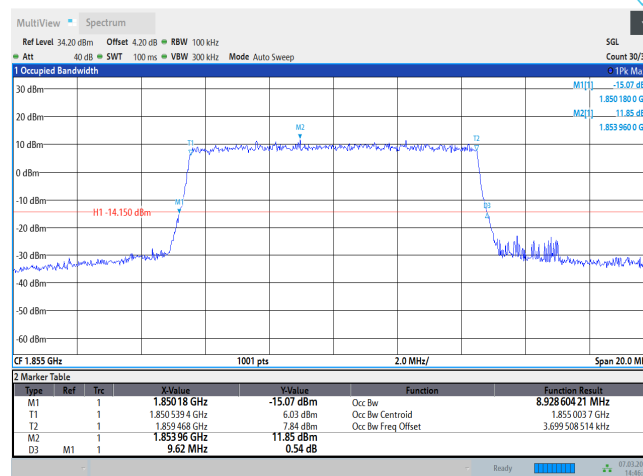
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### Band2-10MHz-16QAM-19150-50RB#0



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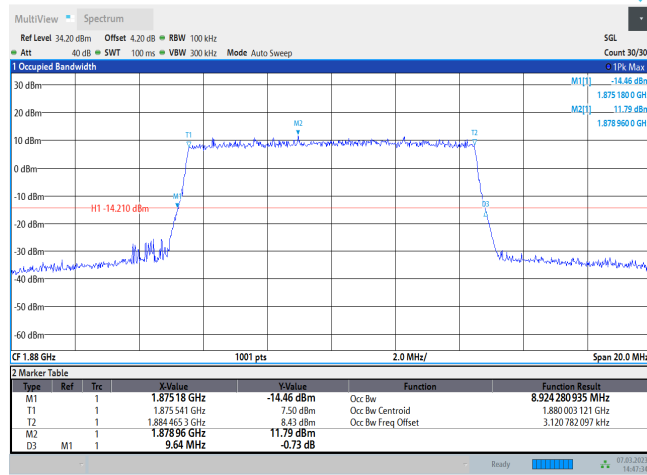
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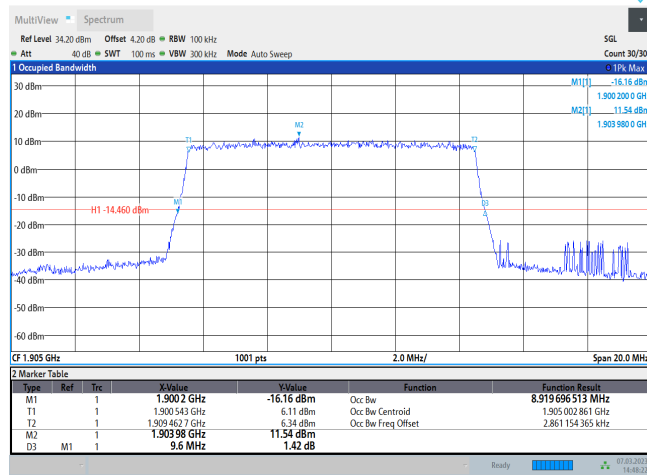
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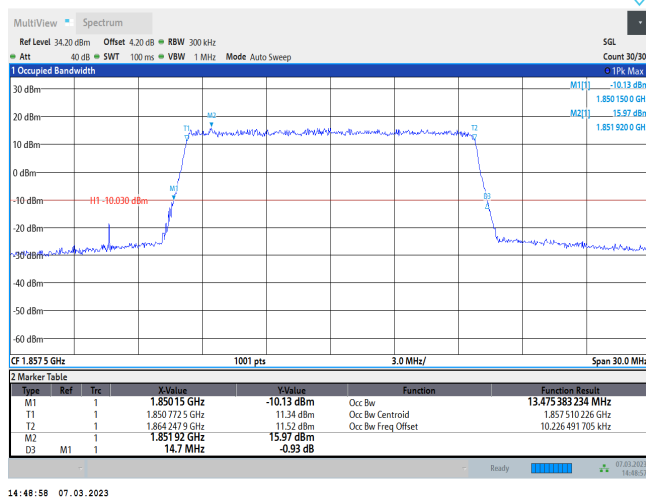
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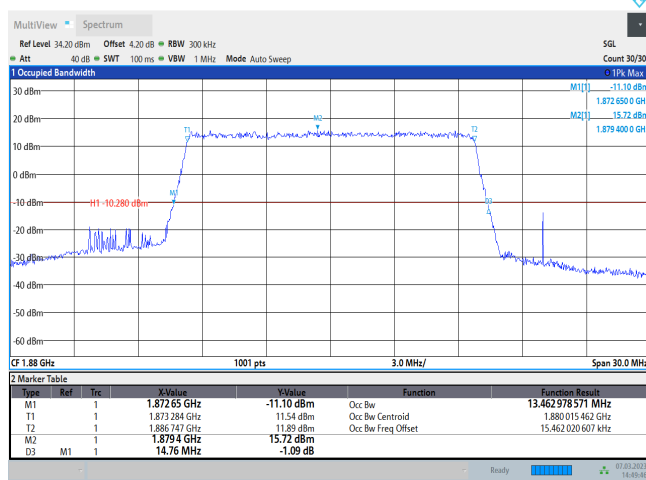
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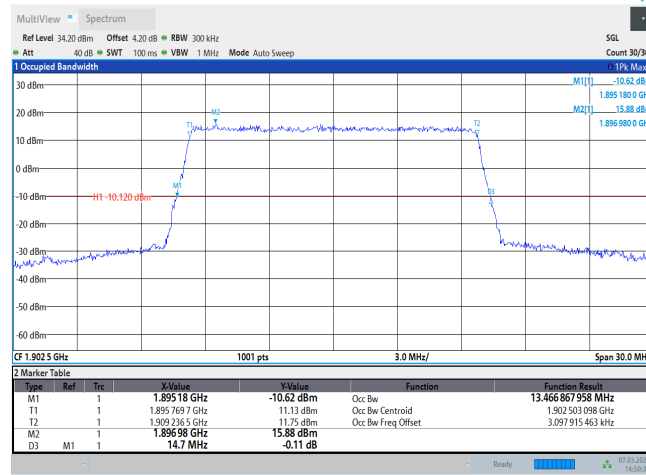
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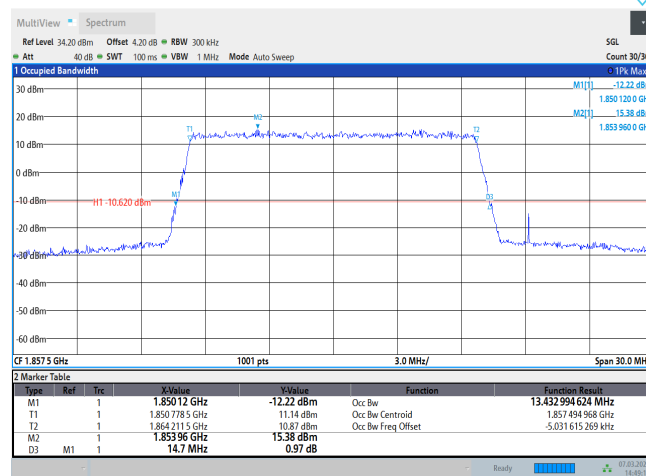
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### Band2-15MHz-QPSK-19125-75RB#0



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14:49:14 07.03.2023



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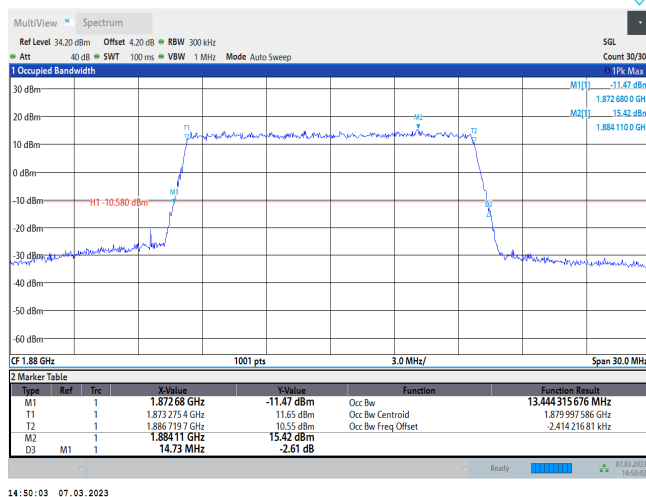
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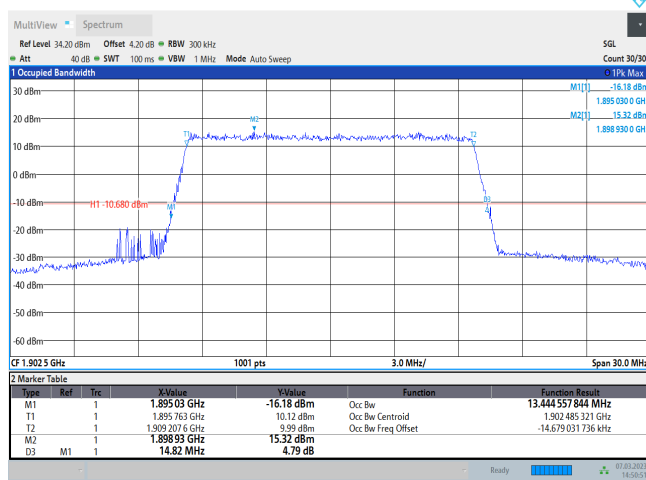
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### Band2-15MHz-16QAM-18900-75RB#0



14:50:03 07.03.2023

### Band2-15MHz-16QAM-19125-75RB#0



14:50:51 07.03.2023



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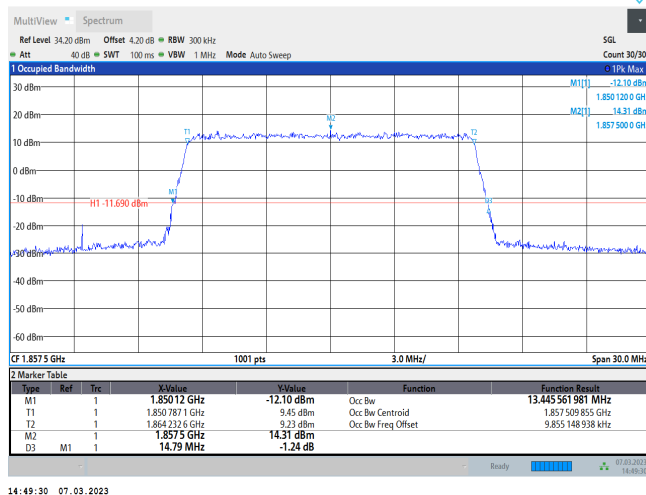
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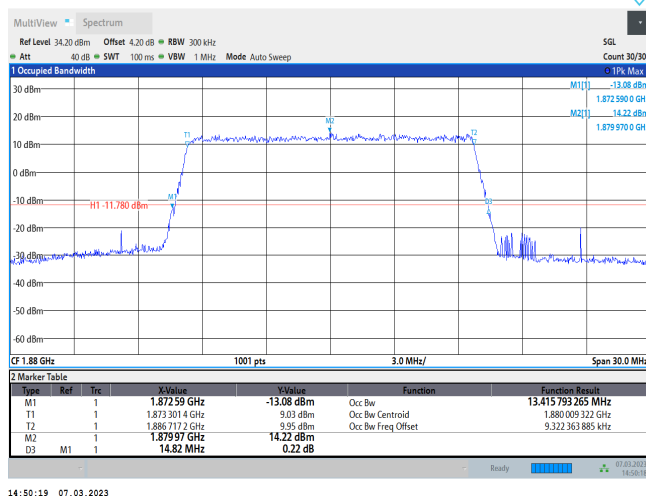
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### Band2-15MHz-64QAM-18675-75RB#0



### Band2-15MHz-64QAM-18900-75RB#0

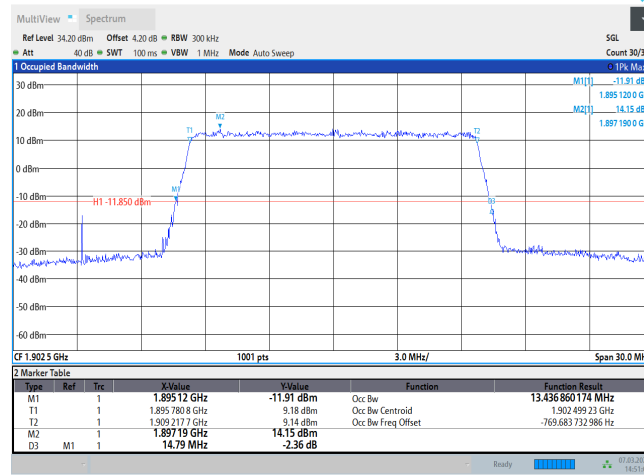


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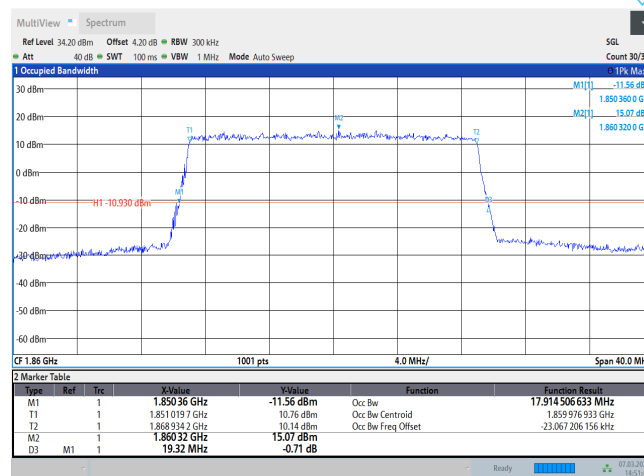
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### Band2-15MHz-64QAM-19125-75RB#0



14:51:08 07.03.2023

### Band2-20MHz-QPSK-18700-100RB#0



14:51:45 07.03.2023



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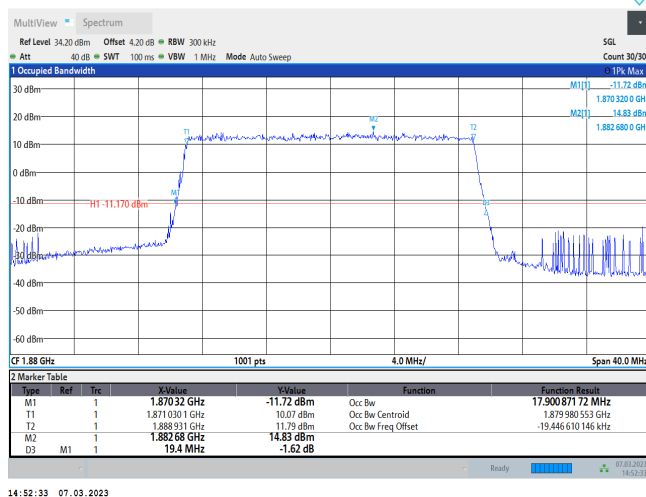
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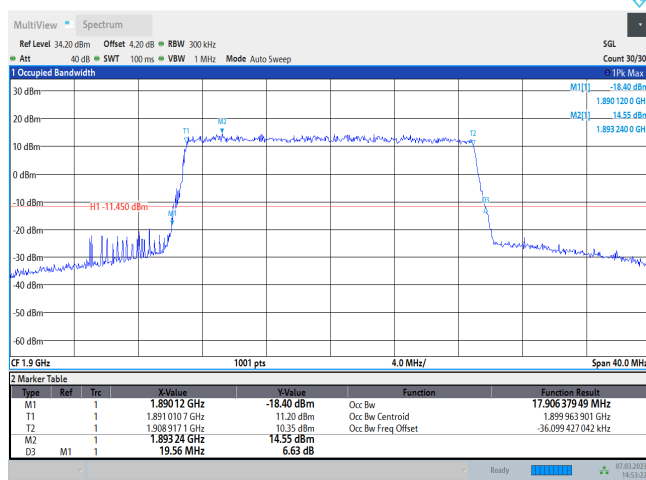
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## Band2-20MHz-QPSK-18900-100RB#0



14:52:33 07.03.2023

## Band2-20MHz-QPSK-19100-100RB#0



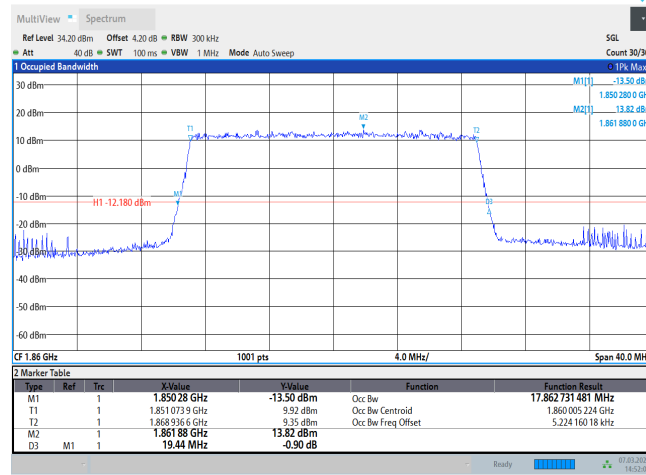
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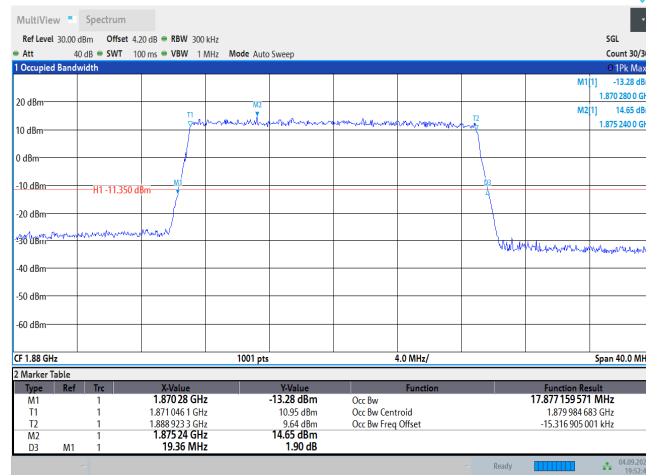
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### Band2-20MHz-16QAM-18700-100RB#0



14:52:01 07.03.2023

### Band2-20MHz-16QAM-18900-100RB#0



19:52:41 04.09.2023



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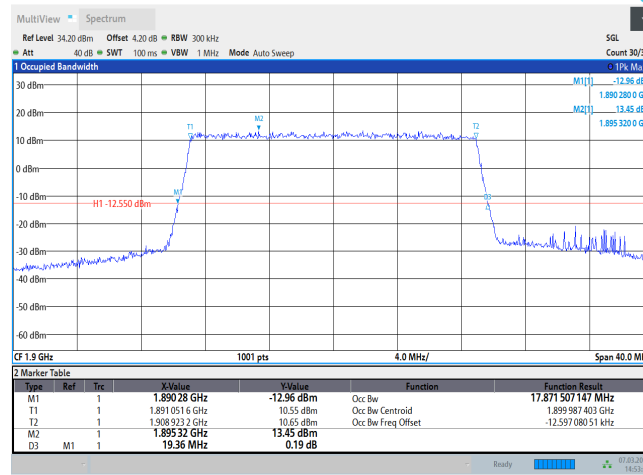
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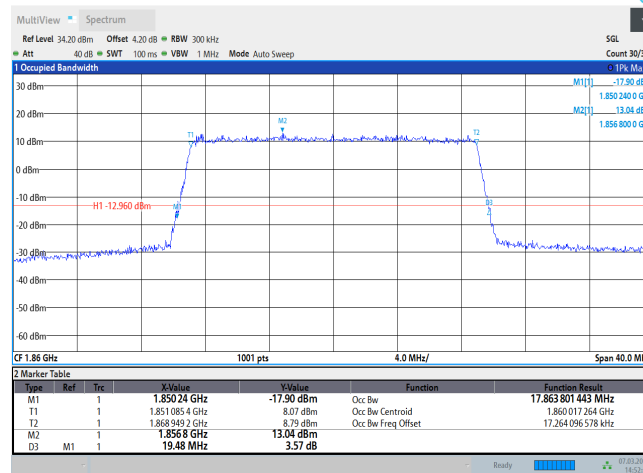
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### Band2-20MHz-16QAM-19100-100RB#0



14:53:38 07.03.2023

### Band2-20MHz-64QAM-18700-100RB#0



14:52:17 07.03.2023



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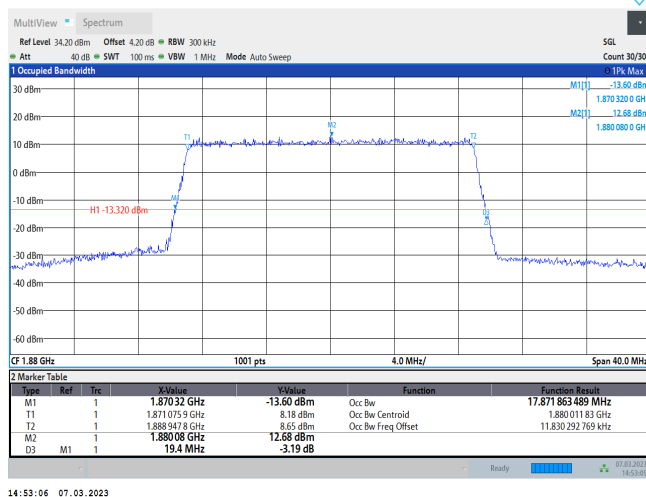
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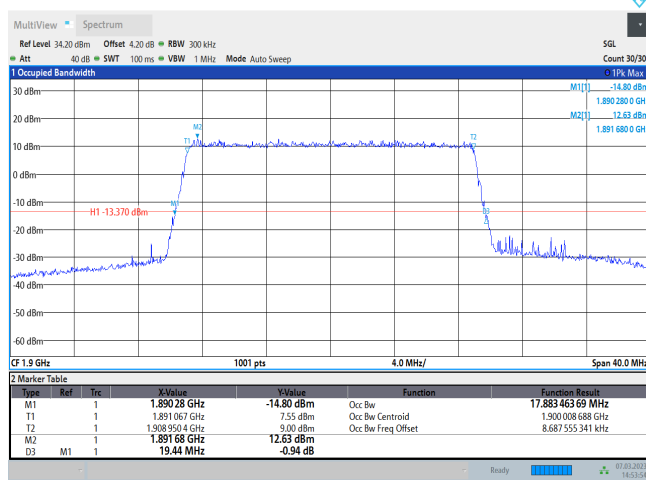
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### Band2-20MHz-64QAM-18900-100RB#0



14:53:06 07.03.2023

### Band2-20MHz-64QAM-19100-100RB#0



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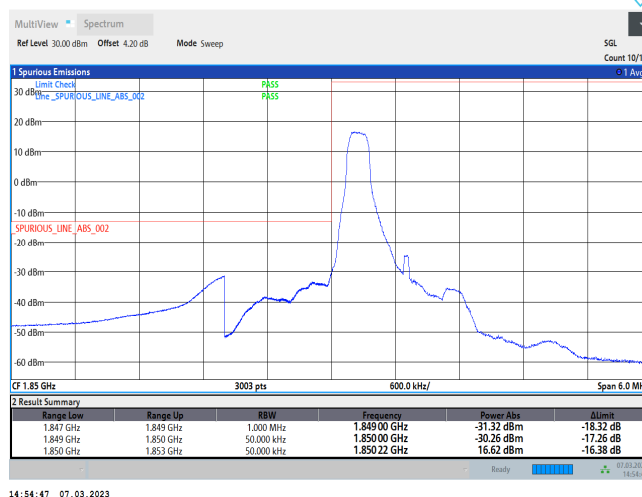
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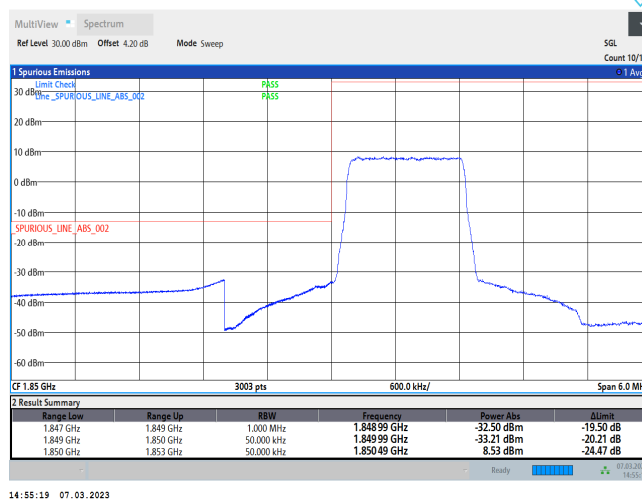
### Band Edge

### Test Graphs

Band2-1.4MHz-QPSK-18607-1RB#0



Band2-1.4MHz-QPSK-18607-6RB#0



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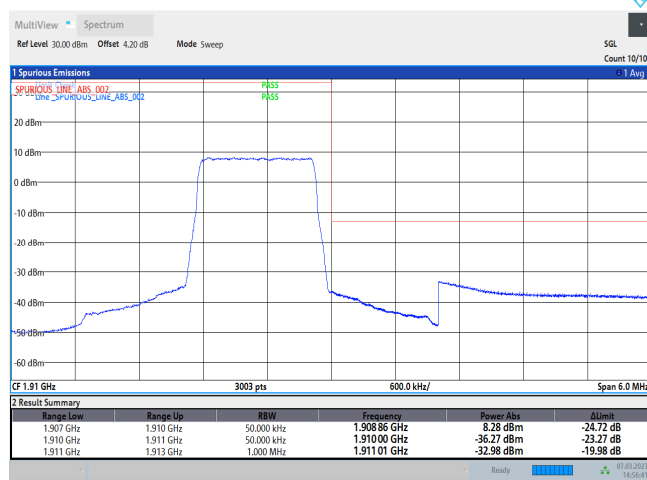
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### Band2-1.4MHz-QPSK-19193-1RB#5



14:56:10 07.03.2023

### Band2-1.4MHz-QPSK-19193-6RB#0



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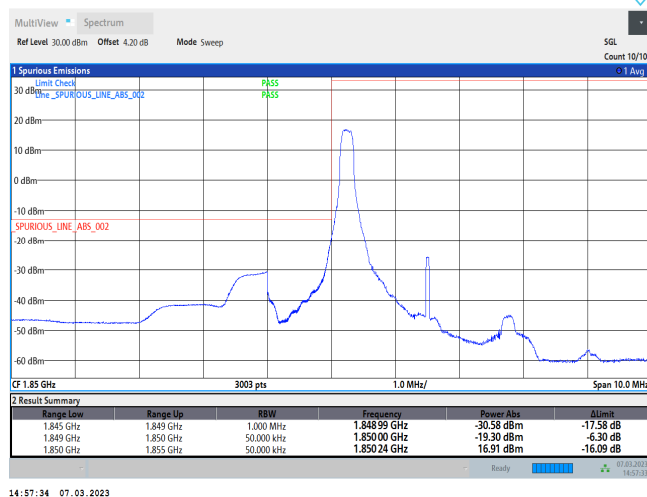
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### Band2-3MHz-QPSK-18615-1RB#0



### Band2-3MHz-QPSK-18615-15RB#0



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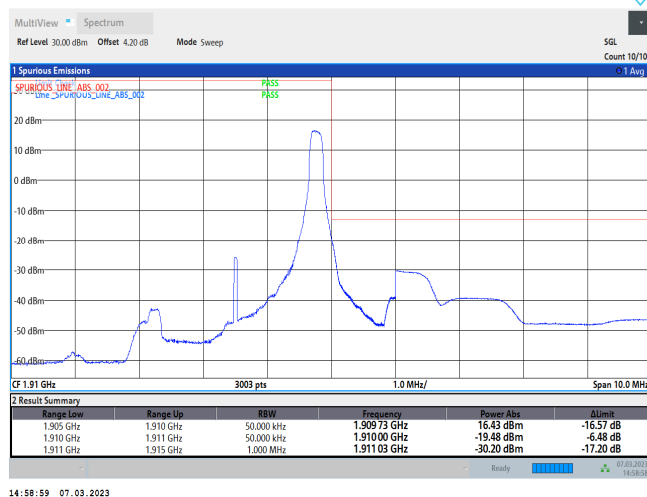
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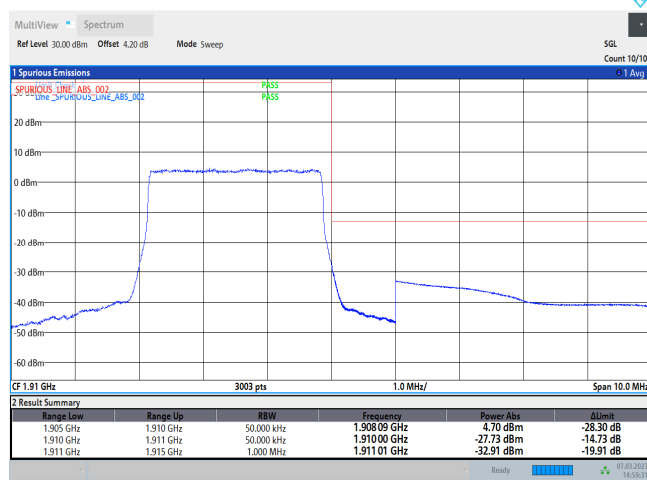
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### Band2-3MHz-QPSK-19185-15RB#0



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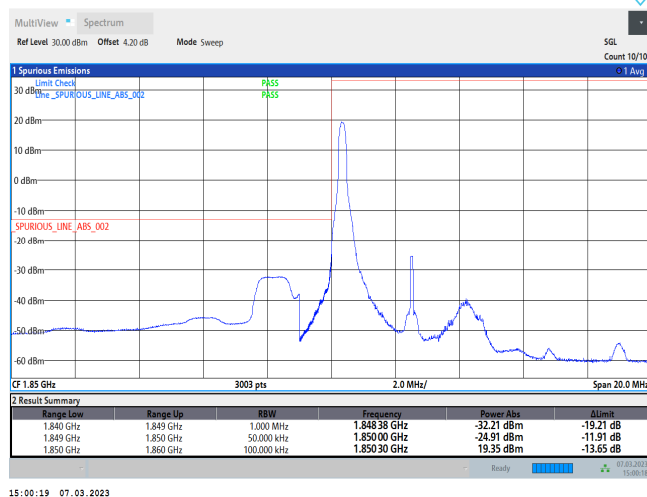
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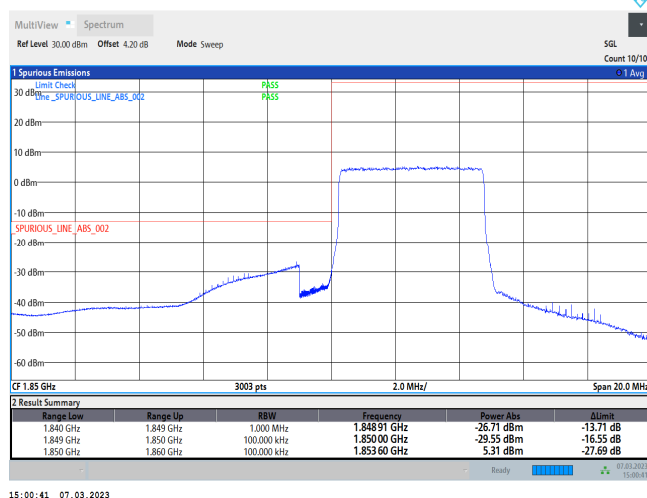
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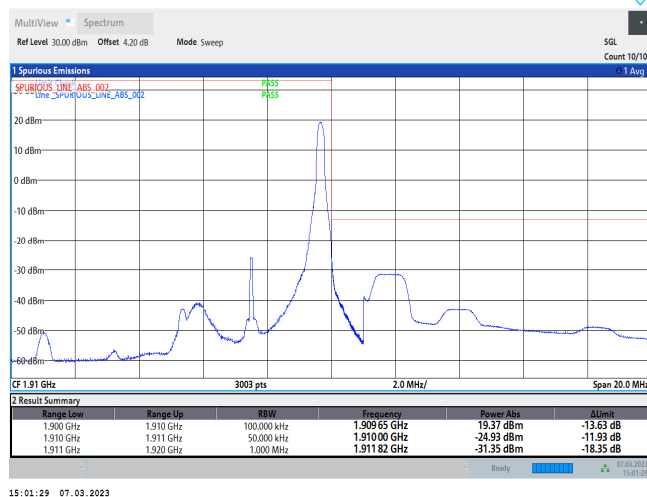
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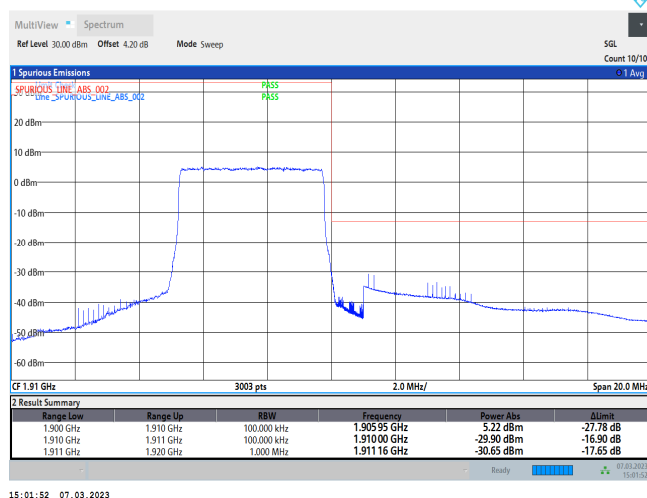
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### Band2-5MHz-QPSK-19175-1RB#24



### Band2-5MHz-QPSK-19175-25RB#0



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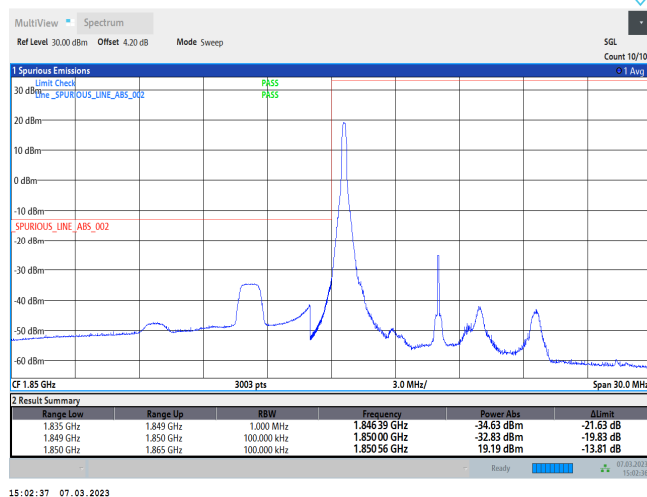
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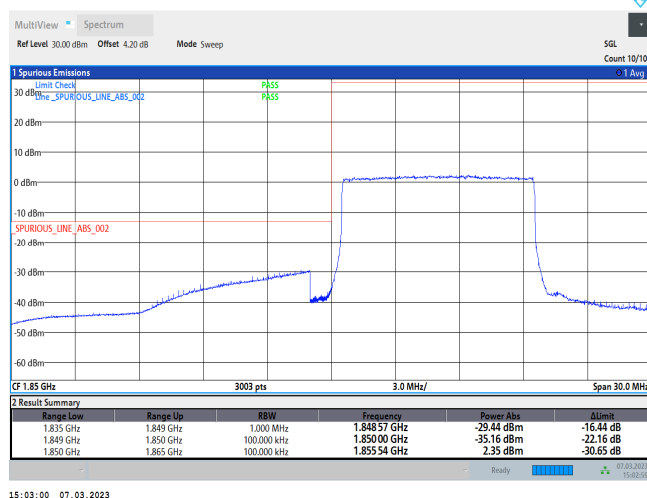
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### Band2-10MHz-QPSK-18650-1RB#0



### Band2-10MHz-QPSK-18650-50RB#0



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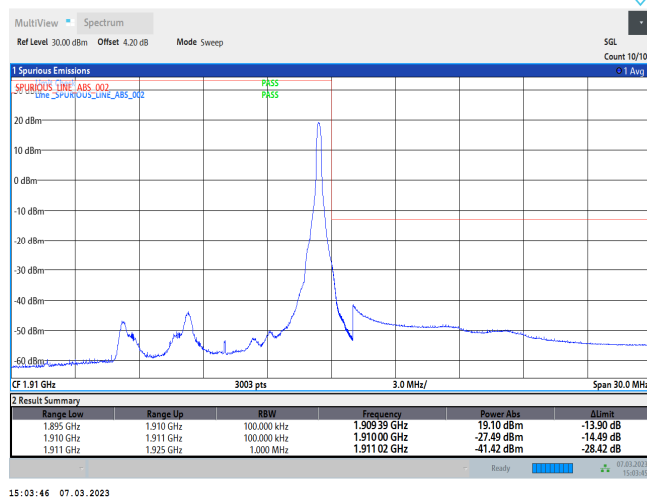
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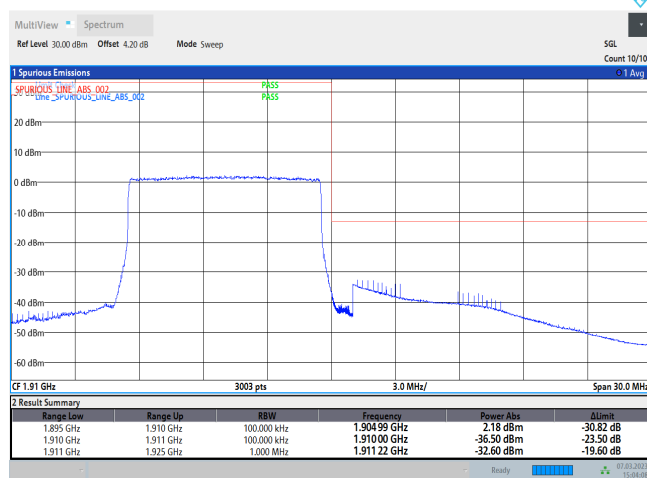
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### Band2-10MHz-QPSK-19150-1RB#49



15:03:46 07.03.2023

### Band2-10MHz-QPSK-19150-50RB#0



15:04:08 07.03.2023



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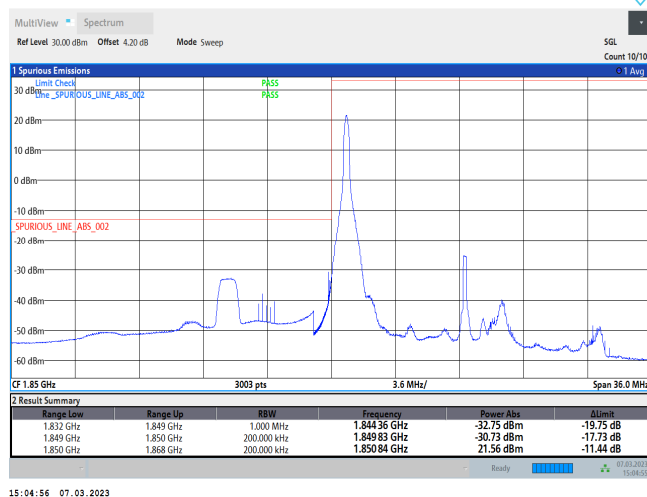
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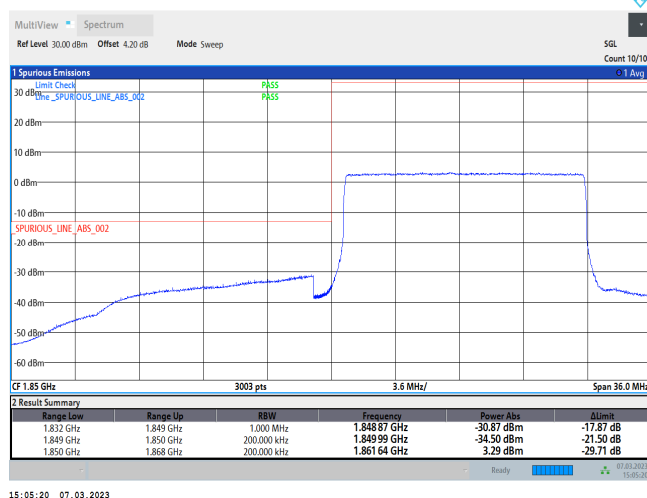
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### Band2-15MHz-QPSK-18675-1RB#0



### Band2-15MHz-QPSK-18675-75RB#0



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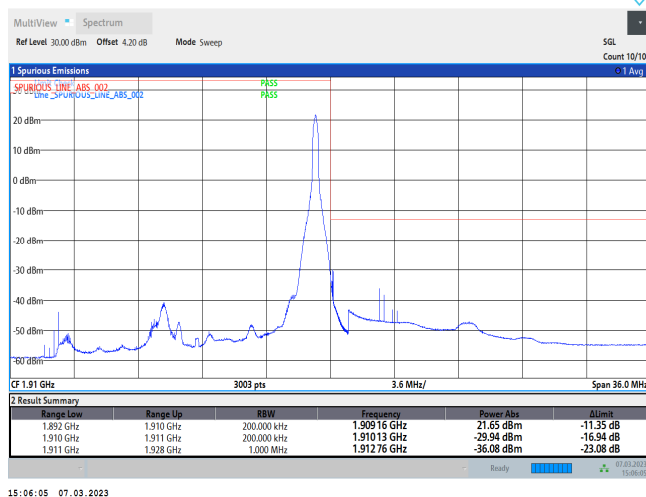
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### Band2-15MHz-QPSK-19125-1RB#74



15:06:05 07.03.2023

### Band2-15MHz-QPSK-19125-75RB#0



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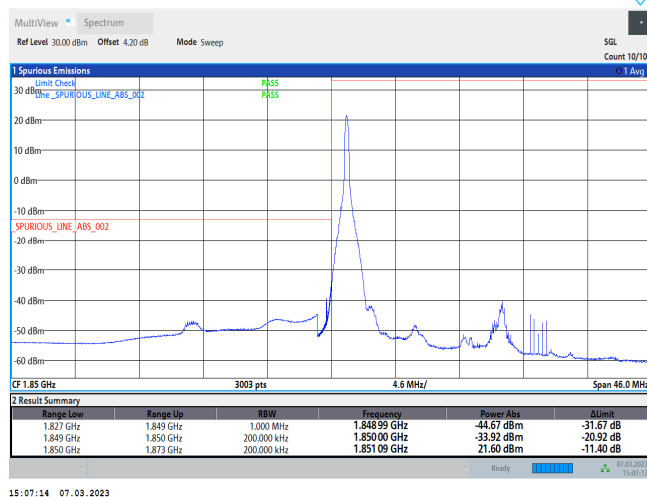
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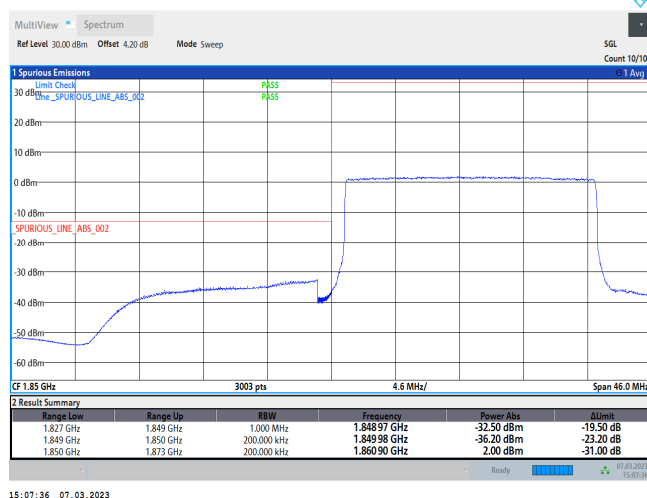
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### Band2-20MHz-QPSK-18700-1RB#0



### Band2-20MHz-QPSK-18700-100RB#0



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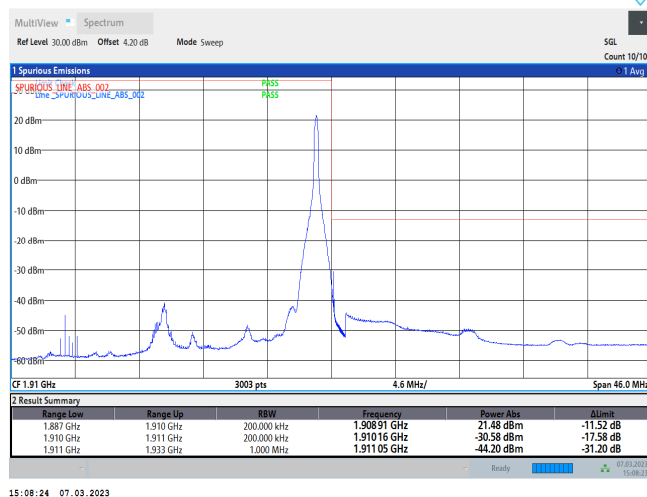
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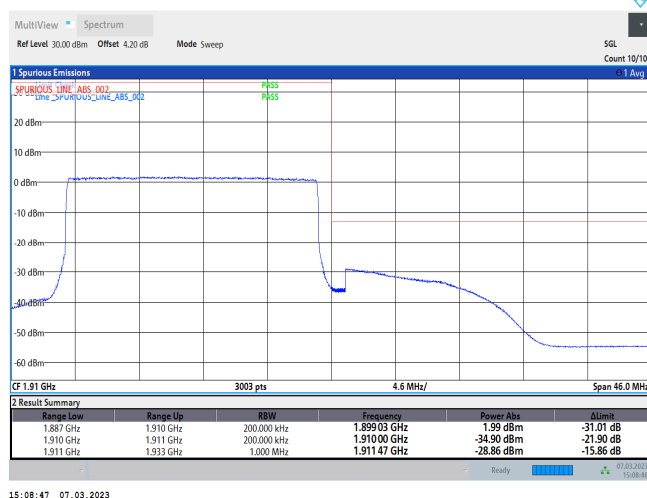
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### Band2-20MHz-QPSK-19100-1RB#99



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### Band2-20MHz-QPSK-19100-100RB#0



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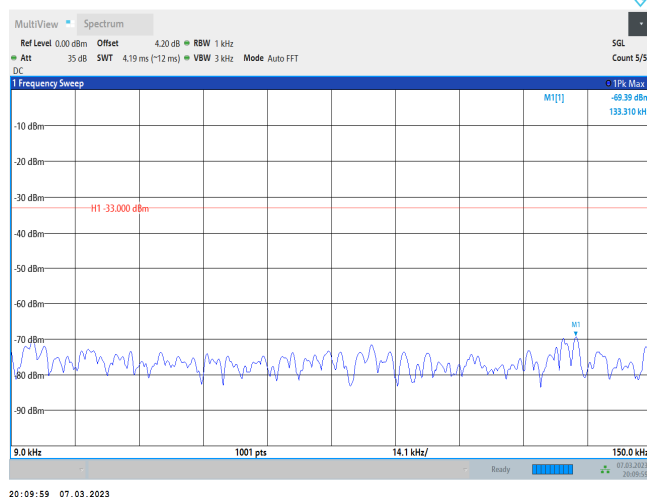
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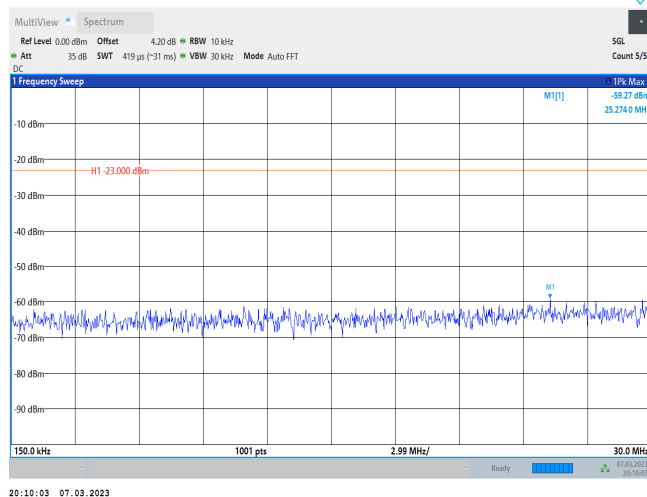
## Conducted Spurious Emission

### Test Graphs

Band2-20MHz-QPSK-18700-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-18700-1RB#0-Range2:0.15~30MHz



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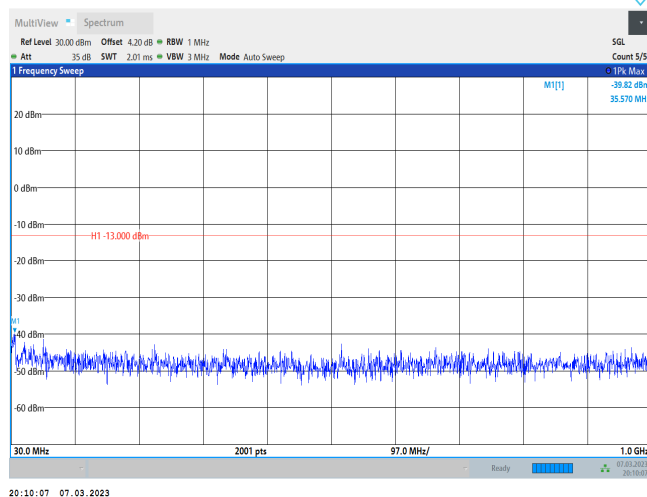
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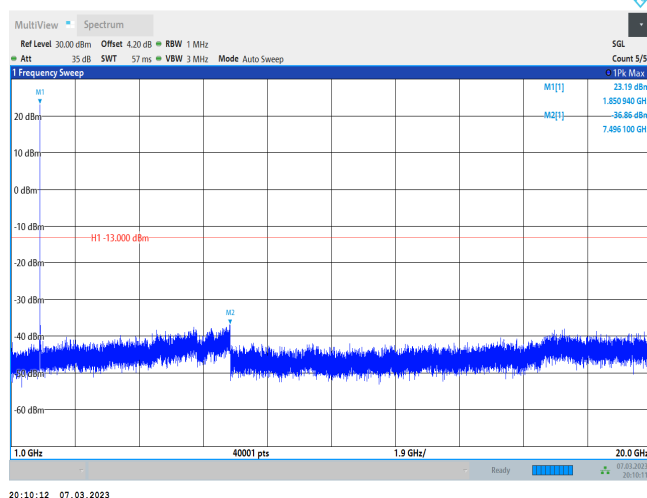
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### Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



20:10:07 07.03.2023

### Band2-20MHz-QPSK-18700-1RB#0-Range4:1000~20000MHz



20:10:12 07.03.2023



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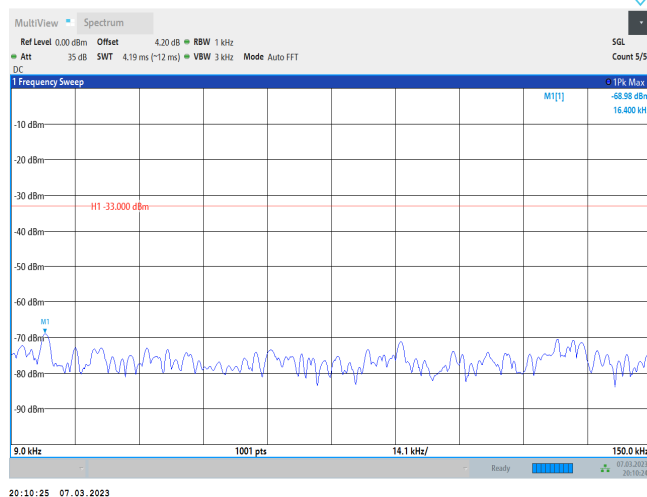
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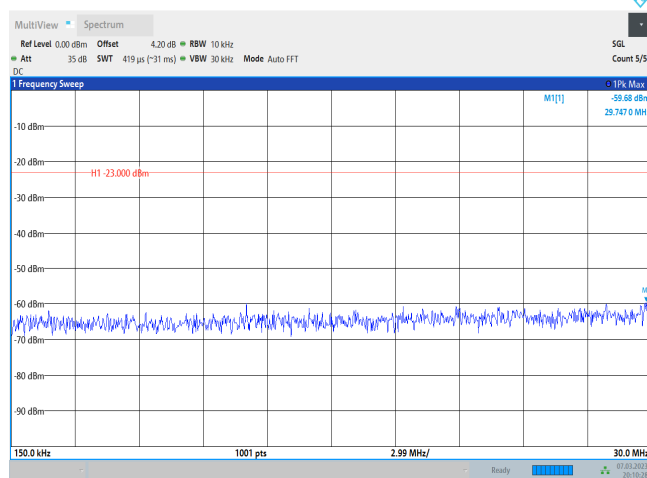
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### Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



20:10:25 07.03.2023

### Band2-20MHz-QPSK-18900-1RB#0-Range2:0.15~30MHz



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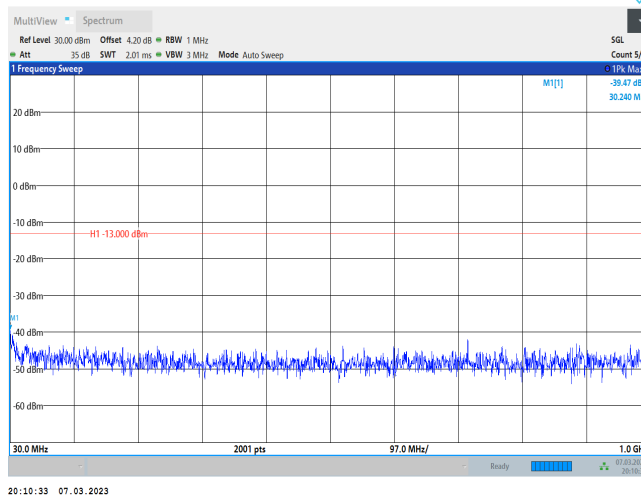
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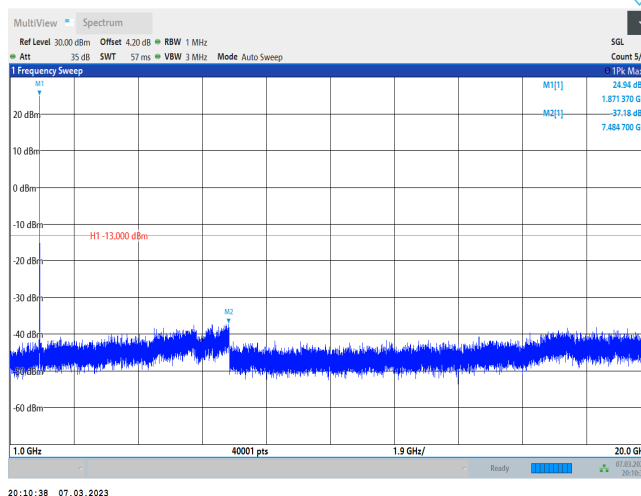
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### Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



### Band2-20MHz-QPSK-18900-1RB#0-Range4:1000~20000MHz



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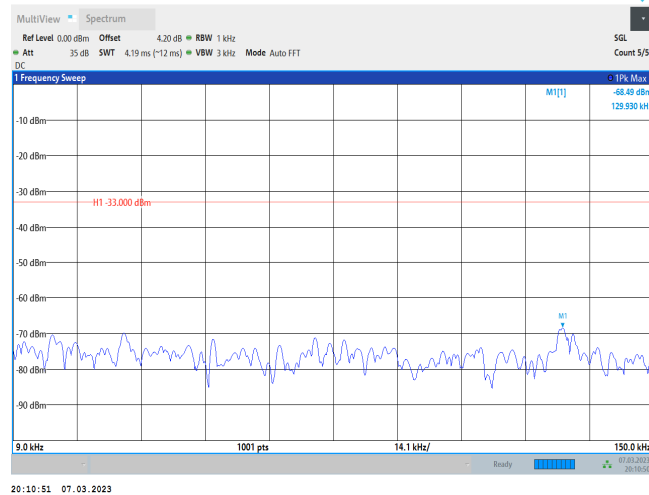
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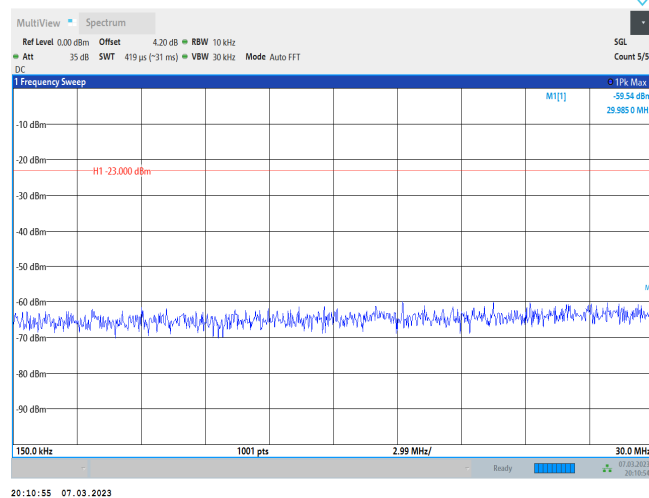
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### Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



### Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz



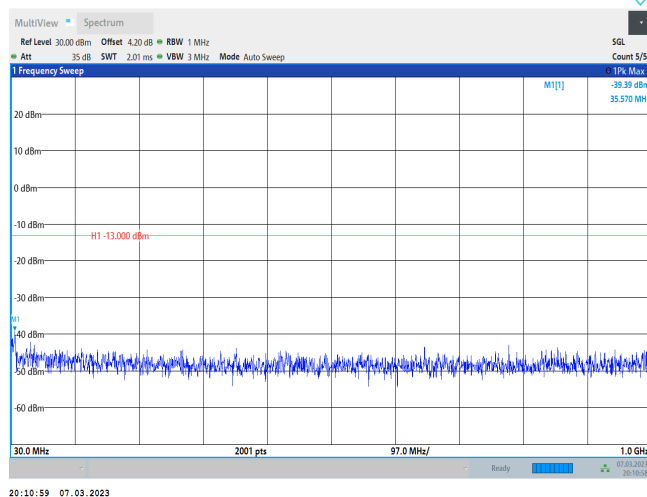
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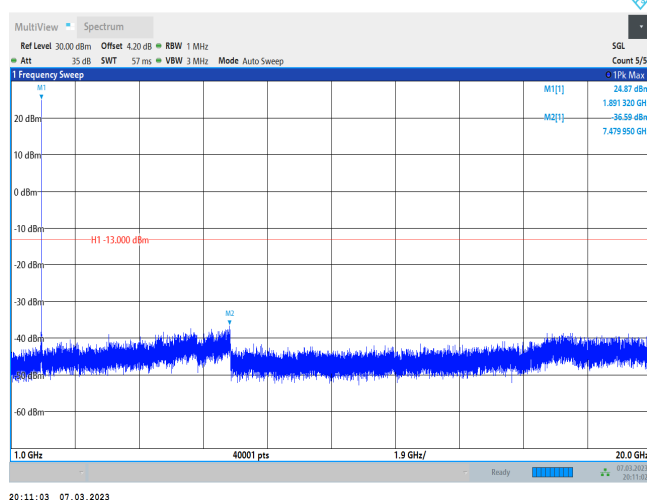
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Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



## Band2-20MHz-QPSK-19100-1RB#0-Range4:1000~20000MHz



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## Field Strength of Spurious Radiation

**Test Band = LTE Band 2\_ TM1**
**Test Channel = Low Channel**

| 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               | 3702.18            | 42.73             | -45.69         | 29.89    | -68.34         | -13.00         | 55.34          | 196            | 248          | Horizontal |
| 2               | 5553.27            | 42.03             | -43.87         | 32.77    | -64.33         | -13.00         | 51.33          | 265            | 359          | Horizontal |
| 3               | 7404.36            | 39.86             | -41.96         | 36.44    | -60.92         | -13.00         | 47.92          | 241            | 15           | Horizontal |
| 4               | 9255.45            | 34.71             | -38.39         | 38.57    | -60.37         | -13.00         | 47.37          | 142            | 66           | Horizontal |
| 5               | 11106.54           | 32.14             | -35.35         | 39.49    | -58.98         | -13.00         | 45.98          | 263            | 359          | Horizontal |
| 6               | 12957.63           | 33.38             | -34.89         | 39.56    | -57.22         | -13.00         | 44.22          | 287            | 181          | 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               | 3702               | 45.71             | -45.69         | 29.88    | -65.36         | -13.00         | 52.36          | 201            | 314          | Vertical |
| 2               | 5553.27            | 41.34             | -43.87         | 32.77    | -65.02         | -13.00         | 52.02          | 142            | 249          | Vertical |
| 3               | 7404.36            | 39.05             | -41.96         | 36.44    | -61.73         | -13.00         | 48.73          | 265            | 249          | Vertical |
| 4               | 9255.45            | 34.33             | -38.39         | 38.57    | -60.75         | -13.00         | 47.75          | 284            | 360          | Vertical |
| 5               | 11106.54           | 32.41             | -35.35         | 39.49    | -58.71         | -13.00         | 45.71          | 142            | 182          | Vertical |
| 6               | 12957.63           | 33.41             | -34.89         | 39.56    | -57.19         | -13.00         | 44.19          | 263            | 264          | Vertical |



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**Test Band = LTE Band 2\_ TM1**
**Test Channel = Mid Channel**

| 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               | 3742.18            | 41.69             | -45.59         | 29.98    | -69.17         | -13.00         | 56.17          | 206            | 314          | Horizontal |
| 2               | 5613.27            | 41.64             | -43.84         | 32.96    | -64.50         | -13.00         | 51.50          | 265            | 346          | Horizontal |
| 3               | 7484.36            | 39.37             | -41.66         | 36.49    | -61.06         | -13.00         | 48.06          | 241            | 360          | Horizontal |
| 4               | 9355.45            | 35.49             | -38.26         | 38.56    | -59.47         | -13.00         | 46.47          | 254            | 314          | Horizontal |
| 5               | 11226.54           | 32.78             | -35.07         | 39.37    | -58.17         | -13.00         | 45.17          | 196            | 359          | Horizontal |
| 6               | 13097.63           | 32.99             | -34.47         | 39.66    | -57.08         | -13.00         | 44.08          | 224            | 101          | 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               | 3742.18            | 43.41             | -45.59         | 29.98    | -67.45         | -13.00         | 54.45          | 296            | 308          | Vertical |
| 2               | 5613.27            | 41.91             | -43.84         | 32.96    | -64.23         | -13.00         | 51.23          | 241            | 166          | Vertical |
| 3               | 7484.36            | 39.75             | -41.66         | 36.49    | -60.68         | -13.00         | 47.68          | 142            | 15           | Vertical |
| 4               | 9355.45            | 35.76             | -38.26         | 38.56    | -59.20         | -13.00         | 46.20          | 255            | 360          | Vertical |
| 5               | 11226.54           | 32.92             | -35.07         | 39.37    | -58.03         | -13.00         | 45.03          | 286            | 63           | Vertical |
| 6               | 13097.63           | 32.40             | -34.47         | 39.66    | -57.67         | -13.00         | 44.67          | 227            | 63           | Vertical |



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**Test Band = LTE Band 2\_ TM1**
**Test Channel = High Channel**

| 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               | 3782.18            | 42.50             | -45.48         | 30.08    | -68.16         | -13.00         | 55.16          | 196            | 297          | Horizontal |
| 2               | 5673.27            | 41.62             | -43.77         | 33.16    | -64.26         | -13.00         | 51.26          | 241            | 332          | Horizontal |
| 3               | 7564.36            | 37.43             | -41.38         | 36.63    | -62.58         | -13.00         | 49.58          | 174            | 182          | Horizontal |
| 4               | 9455.45            | 36.10             | -38.15         | 38.55    | -58.76         | -13.00         | 45.76          | 146            | 166          | Horizontal |
| 5               | 11346.54           | 32.28             | -35.43         | 39.25    | -59.16         | -13.00         | 46.16          | 255            | 33           | Horizontal |
| 6               | 13237.63           | 32.55             | -34.98         | 39.74    | -57.94         | -13.00         | 44.94          | 277            | 33           | 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               | 3782.18            | 44.79             | -45.48         | 30.08    | -65.87         | -13.00         | 52.87          | 263            | 231          | Vertical |
| 2               | 5673.27            | 41.16             | -43.77         | 33.16    | -64.72         | -13.00         | 51.72          | 265            | 301          | Vertical |
| 3               | 7564.36            | 37.95             | -41.38         | 36.63    | -62.06         | -13.00         | 49.06          | 241            | 334          | Vertical |
| 4               | 9455.45            | 36.31             | -38.15         | 38.55    | -58.55         | -13.00         | 45.55          | 142            | 231          | Vertical |
| 5               | 11346.54           | 32.55             | -35.43         | 39.25    | -58.89         | -13.00         | 45.89          | 285            | 3            | Vertical |
| 6               | 13237.63           | 32.14             | -34.98         | 39.74    | -58.35         | -13.00         | 45.35          | 296            | 360          | 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 |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VL            | NT               | 7.50           | 0.003989        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VN            | NT               | -5.90          | -0.003138       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VH            | NT               | 3.90           | 0.002074        | PASS    |

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -30              | -3.90          | -0.002074       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -20              | -10.70         | -0.005691       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -10              | 4.40           | 0.002340        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 0                | -5.30          | -0.002819       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 10               | -9.10          | -0.004840       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 20               | -4.00          | -0.002128       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 30               | -0.50          | -0.000266       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 40               | -9.60          | -0.005106       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 50               | -1.20          | -0.000638       | PASS    |

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