

Appendix B.12

LTE Band 38



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT0:

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|-----------|------------|---------|
| Band38 | 5MHz | QPSK | 37775 | 1RB#0 | 24.62 | 25.02 | 33 | PASS |
| Band38 | 5MHz | QPSK | 37775 | 1RB#12 | 24.73 | 25.13 | 33 | PASS |
| Band38 | 5MHz | QPSK | 37775 | 1RB#24 | 24.68 | 25.08 | 33 | PASS |
| Band38 | 5MHz | QPSK | 37775 | 25RB#0 | 23.5 | 23.9 | 33 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 1RB#0 | 24.64 | 25.04 | 33 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 1RB#12 | 24.71 | 25.11 | 33 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 1RB#24 | 24.64 | 25.04 | 33 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 25RB#0 | 23.46 | 23.86 | 33 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 1RB#0 | 24.58 | 24.98 | 33 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 1RB#12 | 24.69 | 25.09 | 33 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 1RB#24 | 24.61 | 25.01 | 33 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 25RB#0 | 23.41 | 23.81 | 33 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 1RB#0 | 23.54 | 23.94 | 33 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 1RB#12 | 23.52 | 23.92 | 33 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 1RB#24 | 23.55 | 23.95 | 33 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 25RB#0 | 22.55 | 22.95 | 33 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 1RB#0 | 23.53 | 23.93 | 33 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 1RB#12 | 23.5 | 23.9 | 33 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 1RB#24 | 23.48 | 23.88 | 33 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 25RB#0 | 22.51 | 22.91 | 33 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 1RB#0 | 23.44 | 23.84 | 33 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 1RB#12 | 23.44 | 23.84 | 33 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 1RB#24 | 23.44 | 23.84 | 33 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 25RB#0 | 22.48 | 22.88 | 33 | PASS |
| Band38 | 5MHz | 64QAM | 37775 | 1RB#0 | 22.19 | 22.59 | 33 | PASS |
| Band38 | 5MHz | 64QAM | 37775 | 1RB#12 | 22.18 | 22.58 | 33 | PASS |



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| | | | | | | | | |
|--------|-------|-------|-------|--------|-------|-------|----|------|
| Band38 | 5MHz | 64QAM | 37775 | 1RB#24 | 22.19 | 22.59 | 33 | PASS |
| Band38 | 5MHz | 64QAM | 37775 | 25RB#0 | 21.57 | 21.97 | 33 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 1RB#0 | 22.19 | 22.59 | 33 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 1RB#12 | 22.18 | 22.58 | 33 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 1RB#24 | 22.15 | 22.55 | 33 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 25RB#0 | 21.53 | 21.93 | 33 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 1RB#0 | 22.14 | 22.54 | 33 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 1RB#12 | 22.15 | 22.55 | 33 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 1RB#24 | 22.13 | 22.53 | 33 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 25RB#0 | 21.48 | 21.88 | 33 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 1RB#0 | 24.61 | 25.01 | 33 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 1RB#24 | 24.68 | 25.08 | 33 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 1RB#49 | 24.71 | 25.11 | 33 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 50RB#0 | 23.56 | 23.96 | 33 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 1RB#0 | 24.69 | 25.09 | 33 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 1RB#24 | 24.66 | 25.06 | 33 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 1RB#49 | 24.61 | 25.01 | 33 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 50RB#0 | 23.5 | 23.9 | 33 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 1RB#0 | 24.59 | 24.99 | 33 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 1RB#24 | 24.6 | 25 | 33 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 1RB#49 | 24.57 | 24.97 | 33 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB#0 | 23.45 | 23.85 | 33 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 1RB#0 | 23.54 | 23.94 | 33 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 1RB#24 | 23.55 | 23.95 | 33 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 1RB#49 | 23.56 | 23.96 | 33 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 50RB#0 | 22.59 | 22.99 | 33 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#0 | 23.54 | 23.94 | 33 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#24 | 23.53 | 23.93 | 33 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#49 | 23.47 | 23.87 | 33 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 50RB#0 | 22.5 | 22.9 | 33 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#0 | 23.45 | 23.85 | 33 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#24 | 23.44 | 23.84 | 33 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#49 | 23.43 | 23.83 | 33 | PASS |



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| | | | | | | | | |
|--------|-------|-------|-------|--------|-------|-------|----|------|
| Band38 | 10MHz | 16QAM | 38200 | 50RB#0 | 22.46 | 22.86 | 33 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 1RB#0 | 22.16 | 22.56 | 33 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 1RB#24 | 22.18 | 22.58 | 33 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 1RB#49 | 22.19 | 22.59 | 33 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 50RB#0 | 21.55 | 21.95 | 33 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 1RB#0 | 22.17 | 22.57 | 33 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 1RB#24 | 22.16 | 22.56 | 33 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 1RB#49 | 22.1 | 22.5 | 33 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 50RB#0 | 21.46 | 21.86 | 33 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 1RB#0 | 22.1 | 22.5 | 33 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 1RB#24 | 22.11 | 22.51 | 33 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 1RB#49 | 22.07 | 22.47 | 33 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 50RB#0 | 21.42 | 21.82 | 33 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 1RB#0 | 24.51 | 24.91 | 33 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 1RB#38 | 24.68 | 25.08 | 33 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 1RB#74 | 24.63 | 25.03 | 33 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 75RB#0 | 23.51 | 23.91 | 33 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 1RB#0 | 24.59 | 24.99 | 33 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 1RB#38 | 24.63 | 25.03 | 33 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 1RB#74 | 24.52 | 24.92 | 33 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 75RB#0 | 23.44 | 23.84 | 33 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 1RB#0 | 24.52 | 24.92 | 33 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 1RB#38 | 24.59 | 24.99 | 33 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 1RB#74 | 24.53 | 24.93 | 33 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 75RB#0 | 23.41 | 23.81 | 33 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#0 | 23.47 | 23.87 | 33 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#38 | 23.56 | 23.96 | 33 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#74 | 23.51 | 23.91 | 33 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 75RB#0 | 22.52 | 22.92 | 33 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#0 | 23.5 | 23.9 | 33 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#38 | 23.51 | 23.91 | 33 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#74 | 23.4 | 23.8 | 33 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 75RB#0 | 22.45 | 22.85 | 33 | PASS |



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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|----|------|
| Band38 | 15MHz | 16QAM | 38175 | 1RB#0 | 23.42 | 23.82 | 33 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#38 | 23.44 | 23.84 | 33 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#74 | 23.39 | 23.79 | 33 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 75RB#0 | 22.41 | 22.81 | 33 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 1RB#0 | 22.08 | 22.48 | 33 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 1RB#38 | 22.19 | 22.59 | 33 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 1RB#74 | 22.14 | 22.54 | 33 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 75RB#0 | 21.51 | 21.91 | 33 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 1RB#0 | 22.11 | 22.51 | 33 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 1RB#38 | 22.16 | 22.56 | 33 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 1RB#74 | 22.04 | 22.44 | 33 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 75RB#0 | 21.45 | 21.85 | 33 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 1RB#0 | 22.05 | 22.45 | 33 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 1RB#38 | 22.11 | 22.51 | 33 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 1RB#74 | 22.04 | 22.44 | 33 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 75RB#0 | 21.41 | 21.81 | 33 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 1RB#0 | 24.49 | 24.89 | 33 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 1RB#49 | 24.71 | 25.11 | 33 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 1RB#99 | 24.59 | 24.99 | 33 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | 23.53 | 23.93 | 33 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 1RB#0 | 24.57 | 24.97 | 33 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 1RB#49 | 24.67 | 25.07 | 33 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 1RB#99 | 24.5 | 24.9 | 33 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | 23.47 | 23.87 | 33 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 1RB#0 | 24.53 | 24.93 | 33 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 1RB#49 | 24.62 | 25.02 | 33 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 1RB#99 | 24.53 | 24.93 | 33 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | 23.44 | 23.84 | 33 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#0 | 23.43 | 23.83 | 33 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#49 | 23.59 | 23.99 | 33 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#99 | 23.45 | 23.85 | 33 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | 22.56 | 22.96 | 33 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#0 | 23.46 | 23.86 | 33 | PASS |



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|--------|-------|-------|-------|---------|-------|-------|----|------|
| Band38 | 20MHz | 16QAM | 38000 | 1RB#49 | 23.54 | 23.94 | 33 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#99 | 23.37 | 23.77 | 33 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | 22.5 | 22.9 | 33 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#0 | 23.41 | 23.81 | 33 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#49 | 23.49 | 23.89 | 33 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#99 | 23.37 | 23.77 | 33 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | 22.46 | 22.86 | 33 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 1RB#0 | 22.04 | 22.44 | 33 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 1RB#49 | 22.22 | 22.62 | 33 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 1RB#99 | 22.08 | 22.48 | 33 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | 21.52 | 21.92 | 33 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 1RB#0 | 22.09 | 22.49 | 33 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 1RB#49 | 22.18 | 22.58 | 33 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 1RB#99 | 22.02 | 22.42 | 33 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | 21.46 | 21.86 | 33 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 1RB#0 | 22.05 | 22.45 | 33 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 1RB#49 | 22.13 | 22.53 | 33 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 1RB#99 | 22.04 | 22.44 | 33 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | 21.42 | 21.82 | 33 | PASS |



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Peak-to-Average Ratio(CCDF)

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | 7.22 | 13 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | 6.94 | 13 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | 7.00 | 13 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | 7.88 | 13 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | 7.84 | 13 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | 7.62 | 13 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | 8.40 | 13 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | 8.16 | 13 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | 8.22 | 13 | PASS |



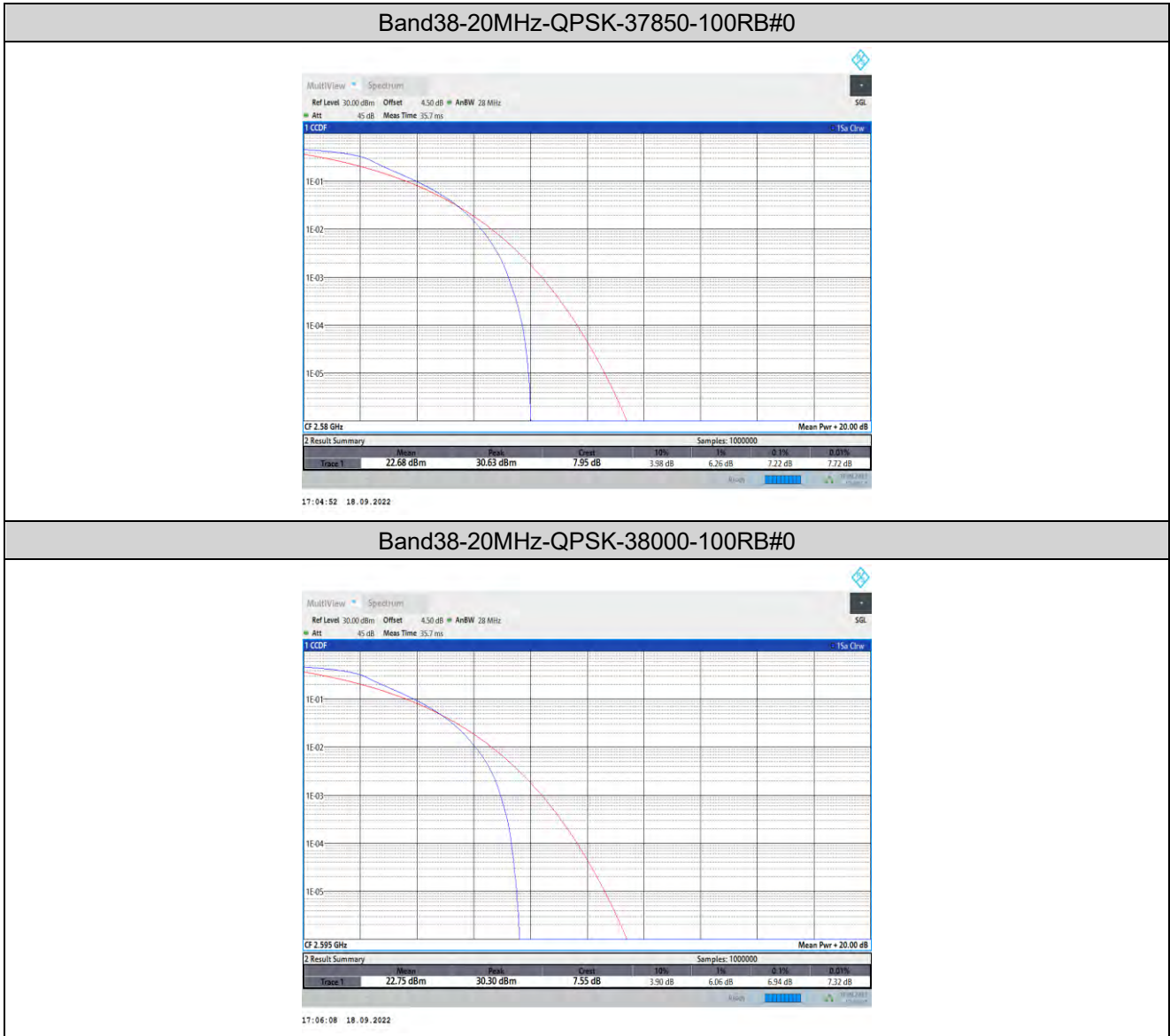
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Test Graphs

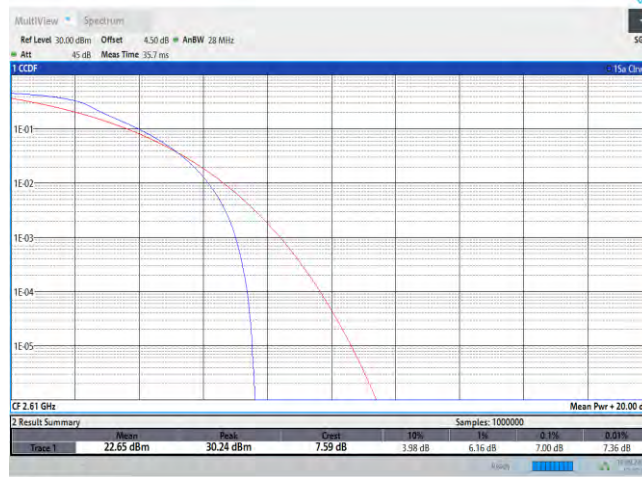


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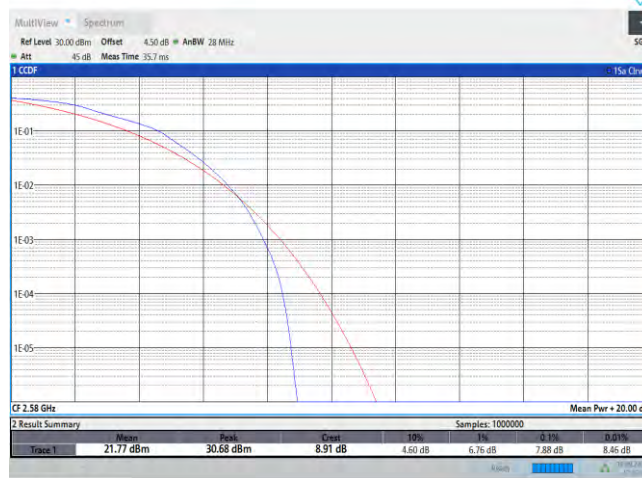
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Band38-20MHz-QPSK-38150-100RB#0



17:07:23 18.09.2022

Band38-20MHz-16QAM-37850-100RB#0



17:05:09 18.09.2022

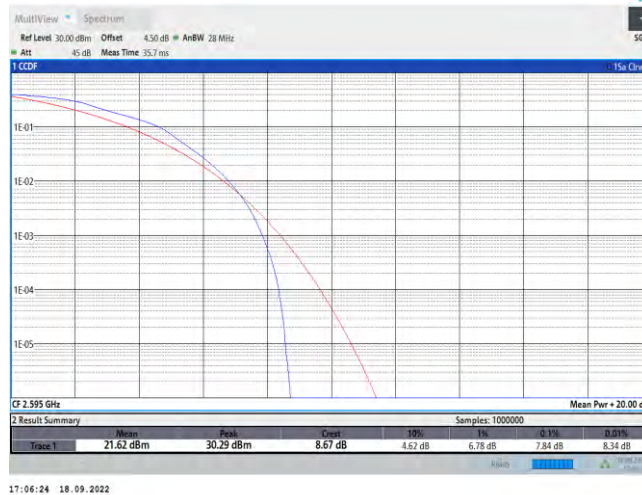


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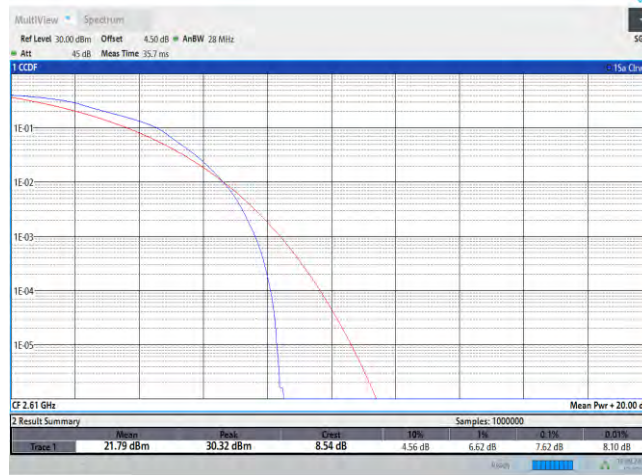
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Band38-20MHz-16QAM-38000-100RB#0



17:06:24 18.09.2022

Band38-20MHz-16QAM-38150-100RB#0



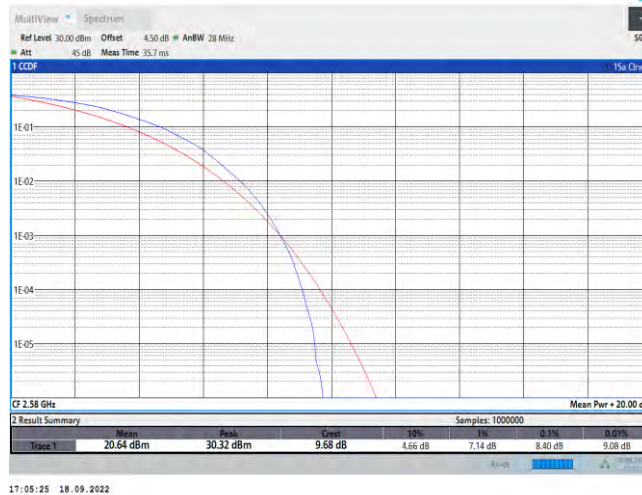
17:07:40 18.09.2022



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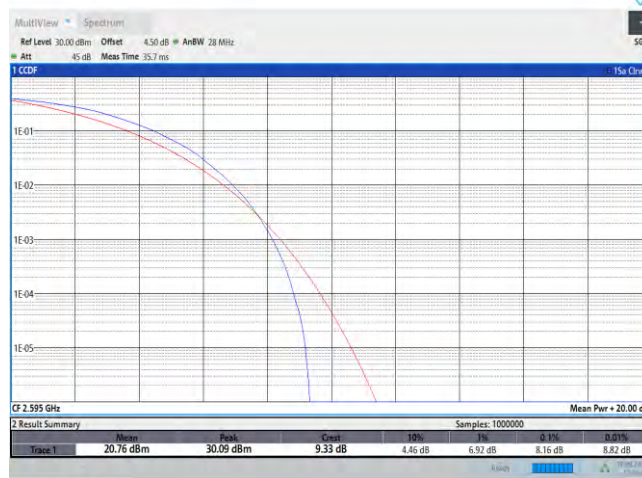
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Band38-20MHz-64QAM-37850-100RB#0



17:05:25 18.09.2022

Band38-20MHz-64QAM-38000-100RB#0



17:06:41 18.09.2022



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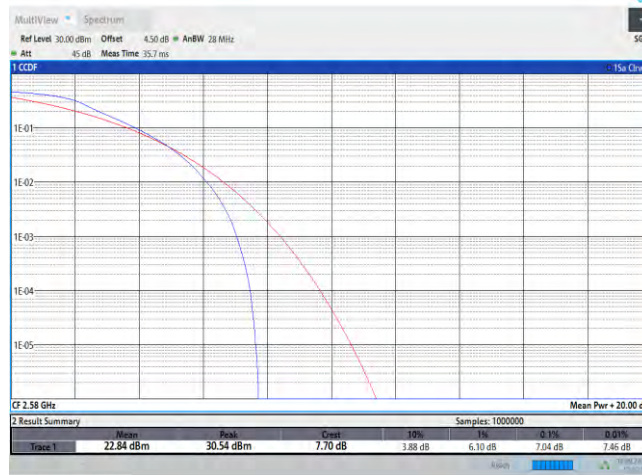
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Band38-20MHz-64QAM-38150-100RB#0



17:07:56 18.09.2022

Band38-20MHz--37850-100RB#0



17:05:51 18.09.2022

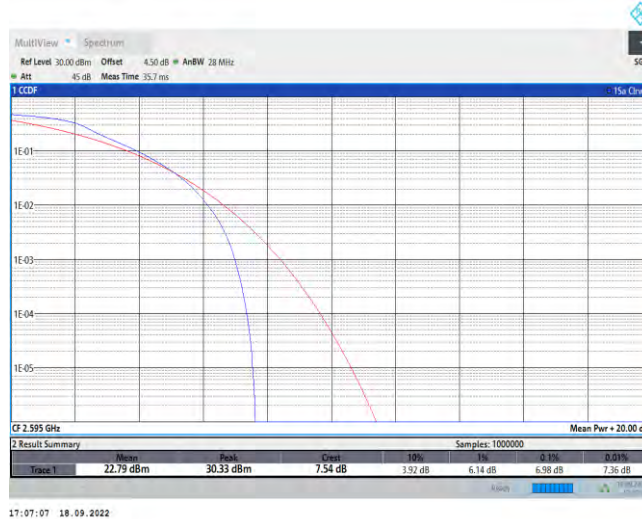


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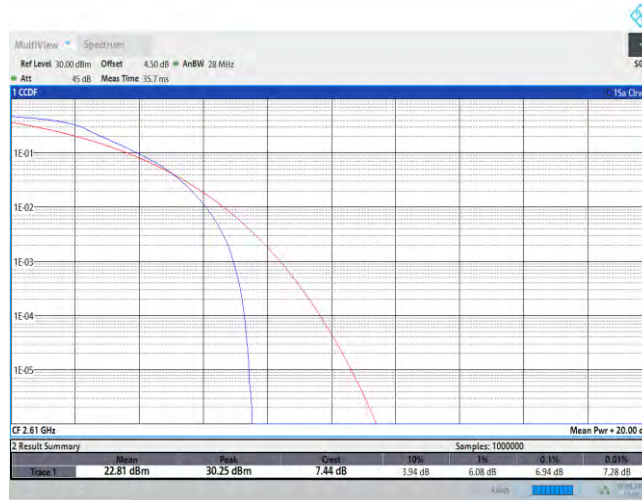
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Band38-20MHz--38000-100RB#0



17:07:07 18.09.2022

Band38-20MHz--38150-100RB#0



17:08:22 18.09.2022



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Modulation Characteristics

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|--------|-----------|------------|---------|------------------|--------|---------|
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | PASS | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | PASS | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | PASS | PASS |



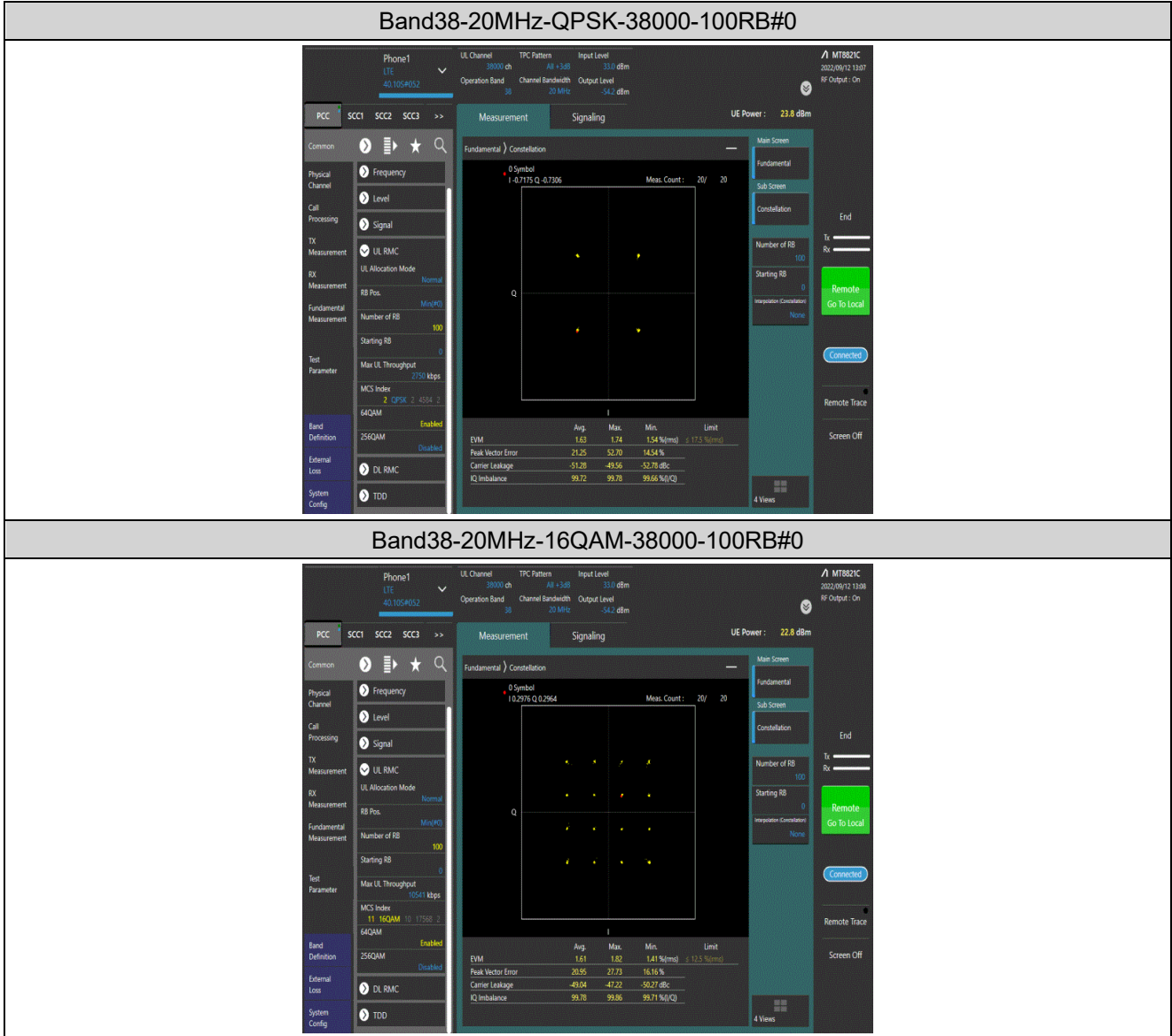
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Test Graphs

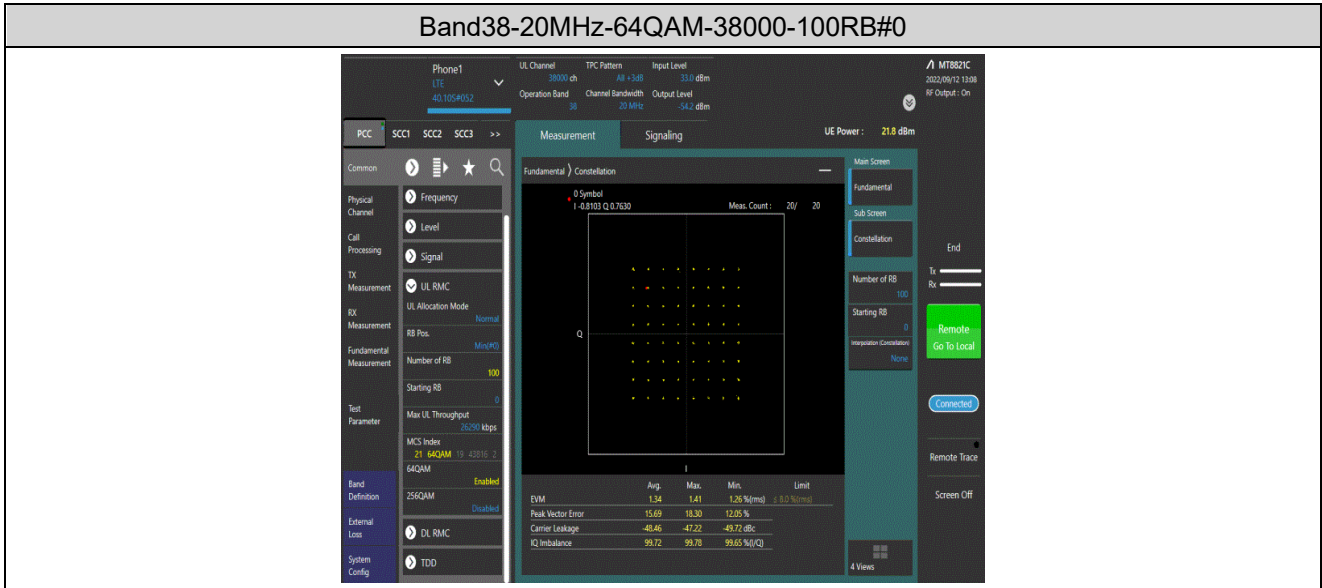


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26dB Bandwidth and Occupied Bandwidth

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band38 | 5MHz | QPSK | 37775 | 25RB#0 | 4.471 | 4.99 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 25RB#0 | 4.474 | 5.01 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 25RB#0 | 4.476 | 5.03 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 25RB#0 | 4.471 | 4.90 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 25RB#0 | 4.469 | 4.93 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 25RB#0 | 4.474 | 4.94 | PASS |
| Band38 | 5MHz | 64QAM | 37775 | 25RB#0 | 4.476 | 4.86 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 25RB#0 | 4.474 | 4.90 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 25RB#0 | 4.472 | 4.83 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 50RB#0 | 8.927 | 9.72 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 50RB#0 | 8.929 | 9.90 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB#0 | 8.926 | 9.82 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 50RB#0 | 8.922 | 9.88 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 50RB#0 | 8.916 | 9.84 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 50RB#0 | 8.92 | 9.60 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 50RB#0 | 8.932 | 9.58 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 50RB#0 | 8.931 | 9.58 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 50RB#0 | 8.93 | 9.62 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 75RB#0 | 13.48 | 14.82 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 75RB#0 | 13.48 | 15.06 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 75RB#0 | 13.474 | 14.88 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 75RB#0 | 13.463 | 14.70 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 75RB#0 | 13.462 | 14.97 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 75RB#0 | 13.463 | 15.27 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 75RB#0 | 13.44 | 14.94 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 75RB#0 | 13.428 | 14.73 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 75RB#0 | 13.449 | 15.27 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | 17.896 | 20.20 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | 17.915 | 20.16 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | 17.904 | 20.12 | PASS |



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Report No.: SEWM2209000170RG01

Rev.: 01

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| | | | | | | | |
|--------|-------|-------|-------|---------|--------|-------|------|
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | 17.901 | 19.28 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | 17.902 | 19.24 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | 17.902 | 19.20 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | 17.88 | 19.28 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | 17.856 | 19.36 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | 17.864 | 19.44 | PASS |

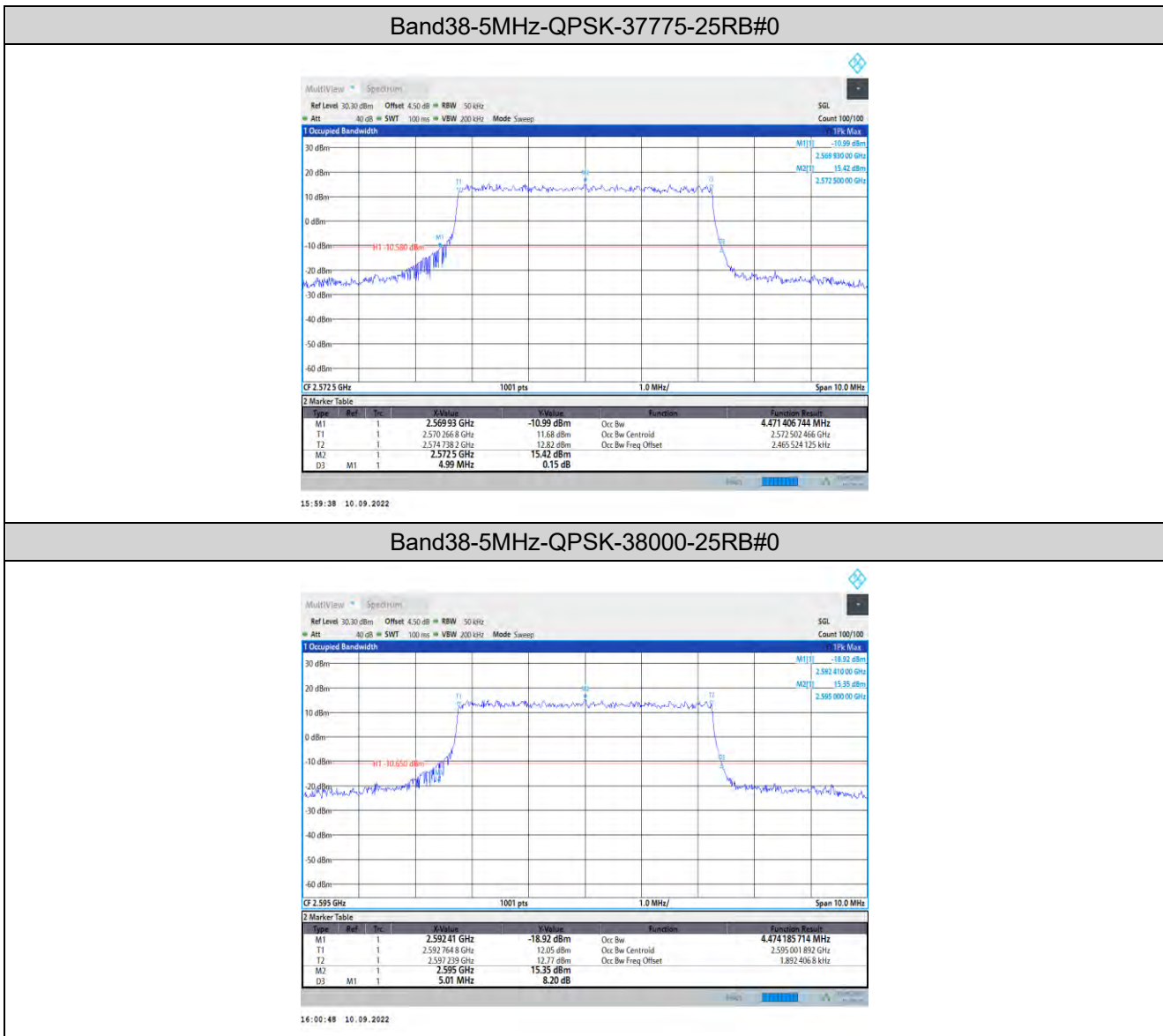


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Test Graphs

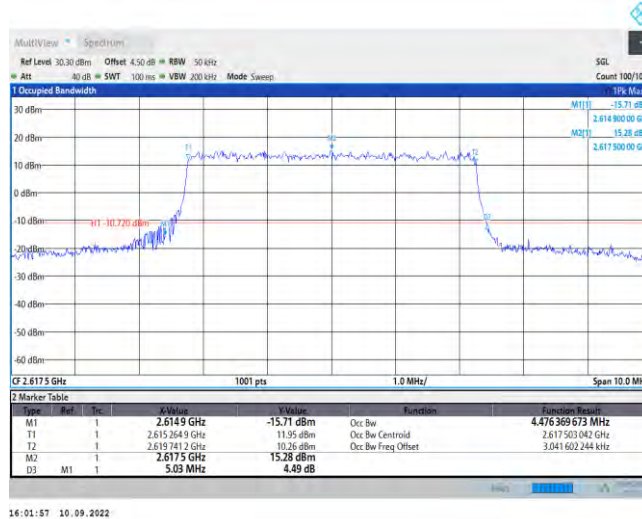


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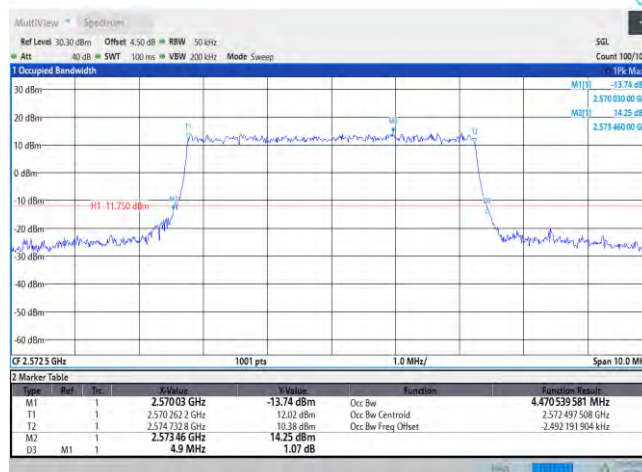
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Band38-5MHz-QPSK-38225-25RB#0



16:01:57 10.09.2022

Band38-5MHz-16QAM-37775-25RB#0



16:00:02 10.09.2022



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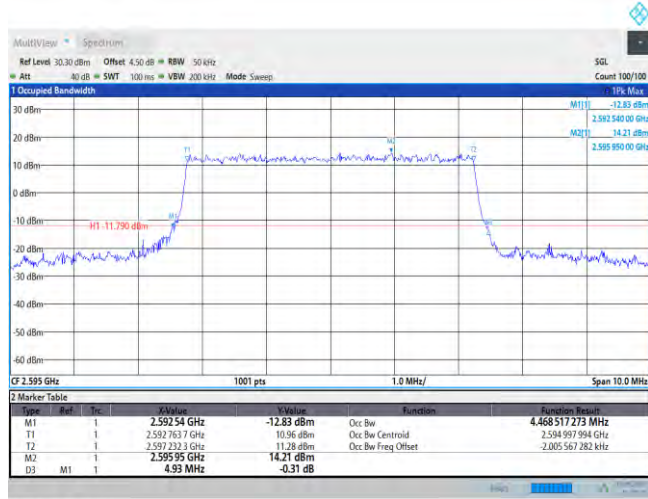
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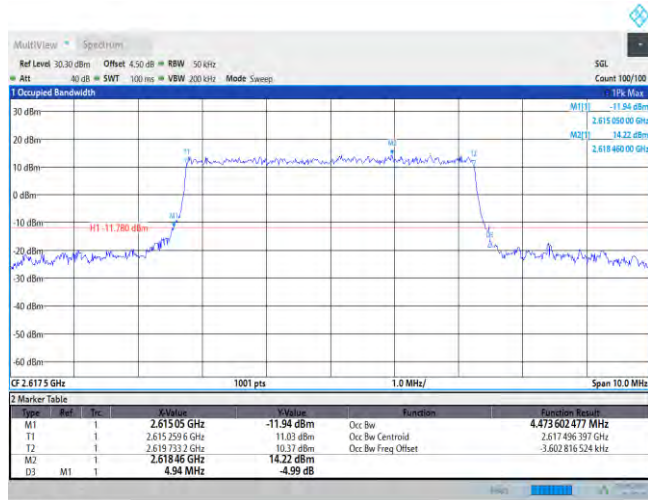
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Band38-5MHz-16QAM-38000-25RB#0



16:01:11 10.09.2022

Band38-5MHz-16QAM-38225-25RB#0



16:02:20 10.09.2022

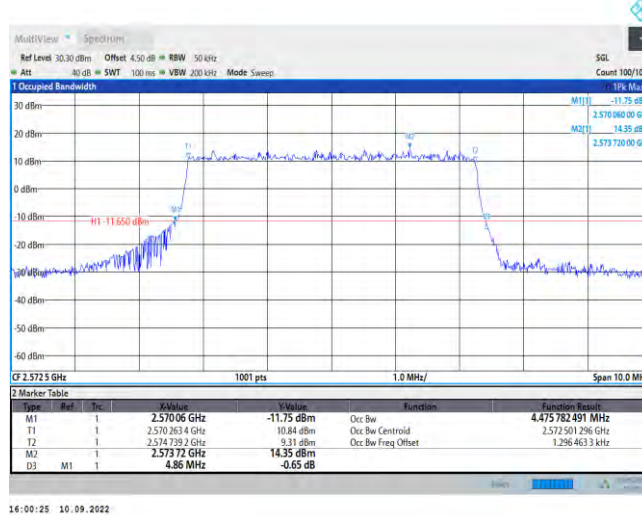


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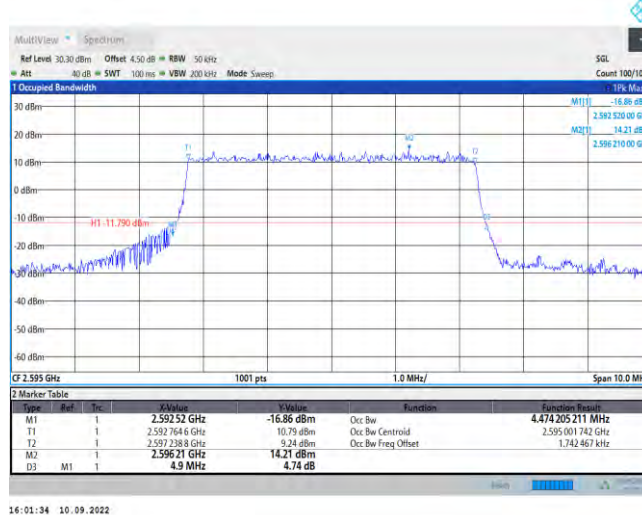
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Band38-5MHz-64QAM-37775-25RB#0



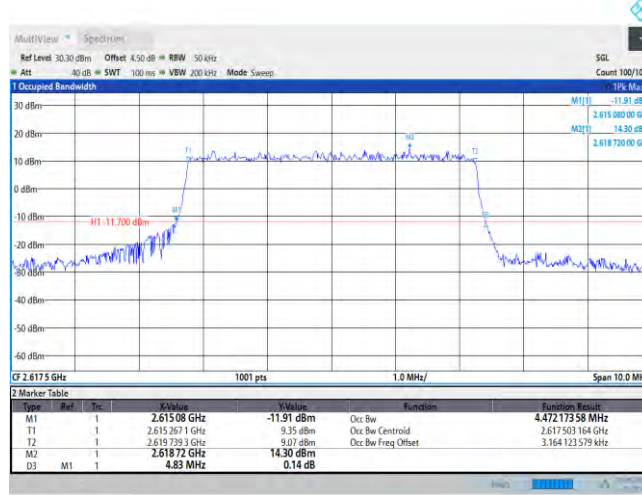
Band38-5MHz-64QAM-38000-25RB#0



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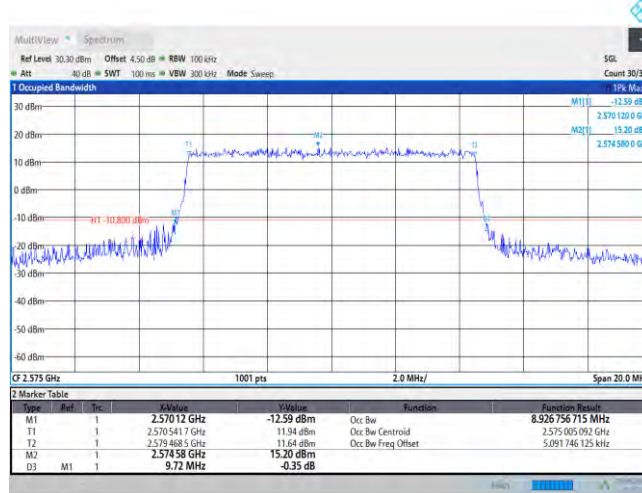
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Band38-5MHz-64QAM-38225-25RB#0



16:02:43 10.09.2022

Band38-10MHz-QPSK-37800-50RB#0



16:03:31 10.09.2022

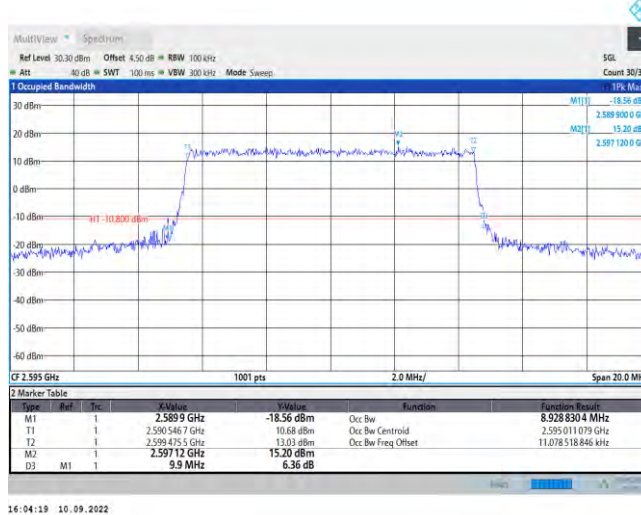


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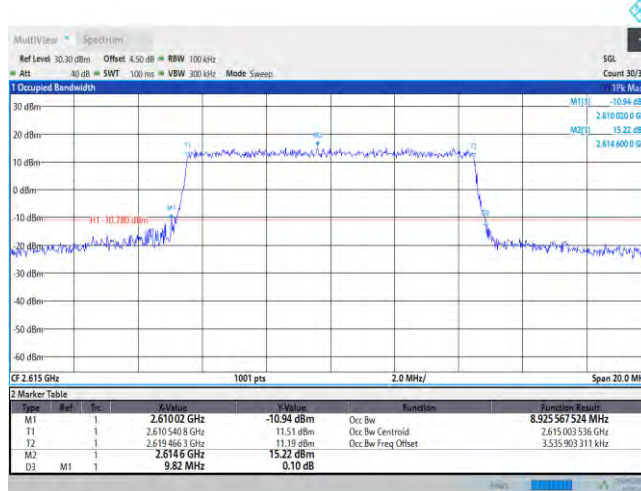
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Band38-10MHz-QPSK-38000-50RB#0



16:04:19 10.09.2022

Band38-10MHz-QPSK-38200-50RB#0



16:05:08 10.09.2022

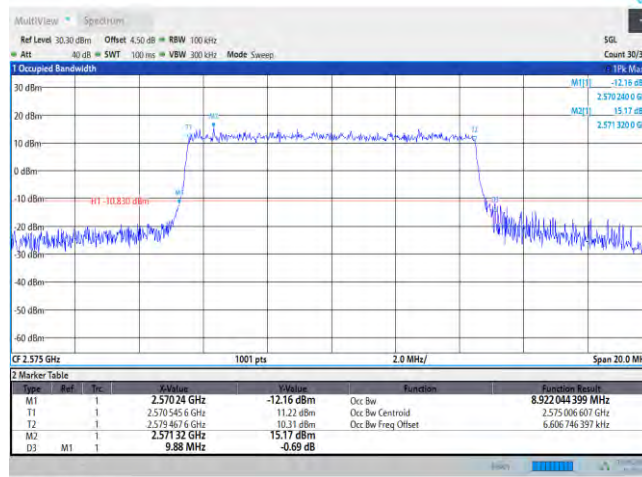


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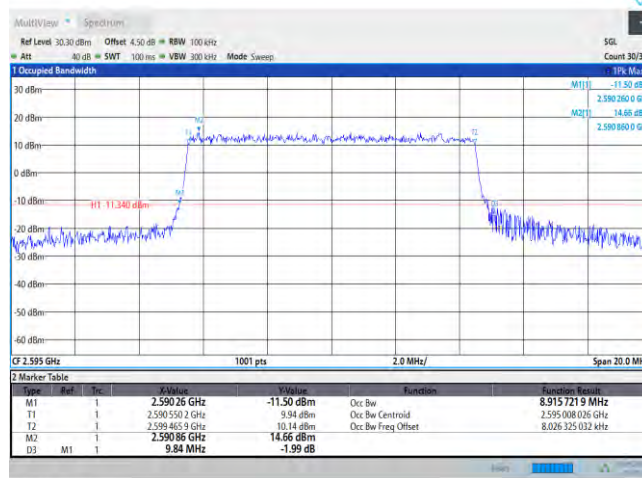
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Band38-10MHz-16QAM-37800-50RB#0



16:03:47 10.09.2022

Band38-10MHz-16QAM-38000-50RB#0



16:04:35 10.09.2022

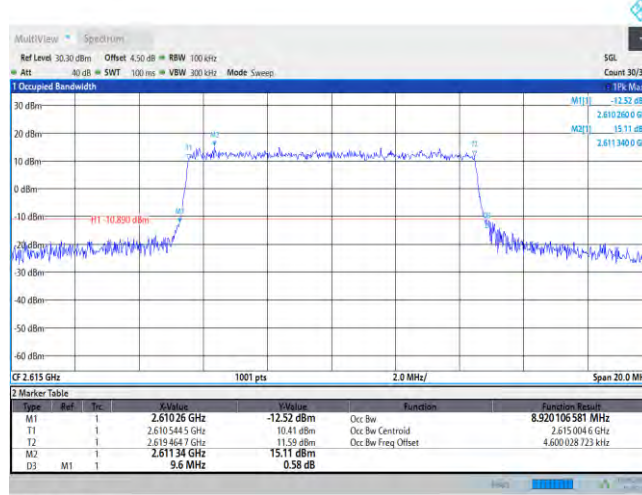


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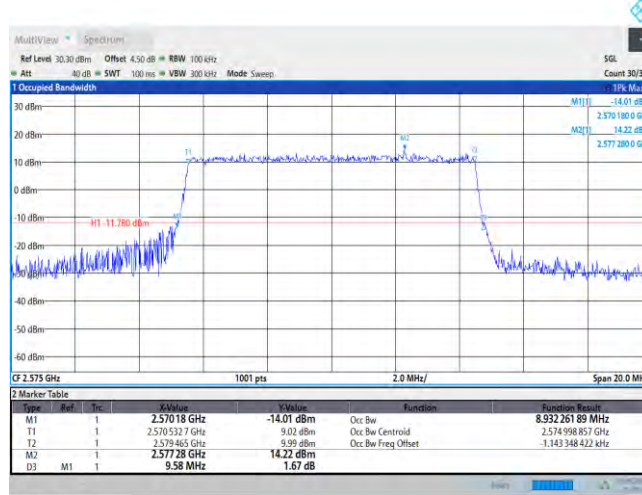
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Band38-10MHz-16QAM-38200-50RB#0



16:05:24 10.09.2022

Band38-10MHz-64QAM-37800-50RB#0



16:04:03 10.09.2022

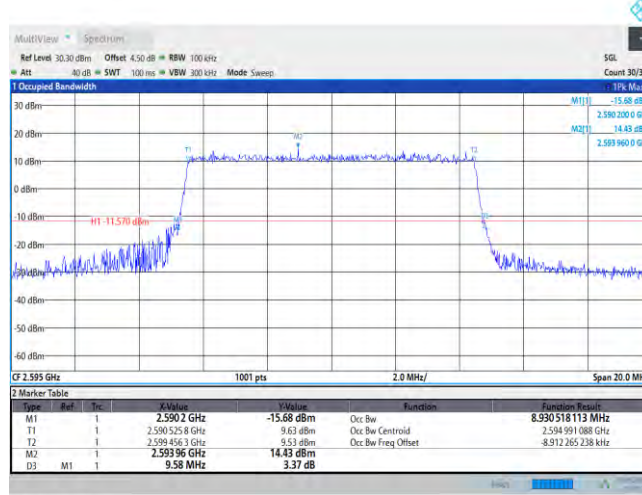


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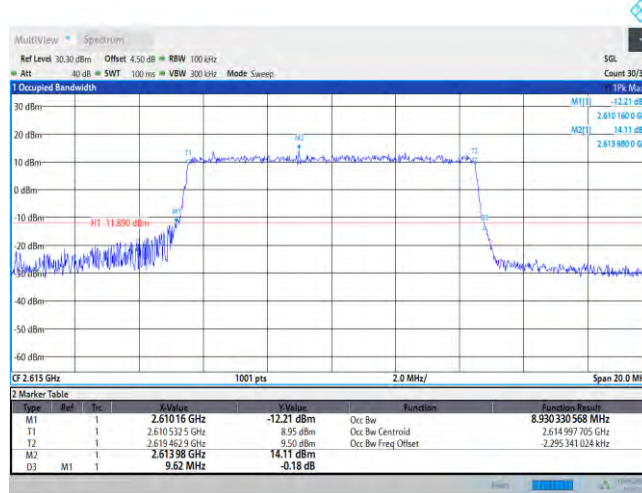
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Band38-10MHz-64QAM-38000-50RB#0



16:04:51 10.09.2022

Band38-10MHz-64QAM-38200-50RB#0



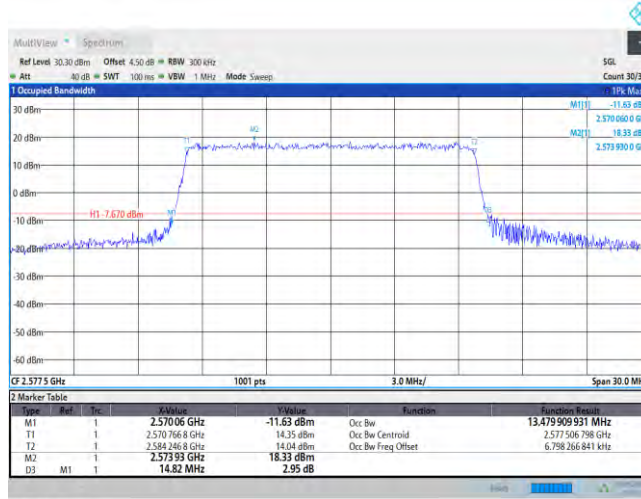
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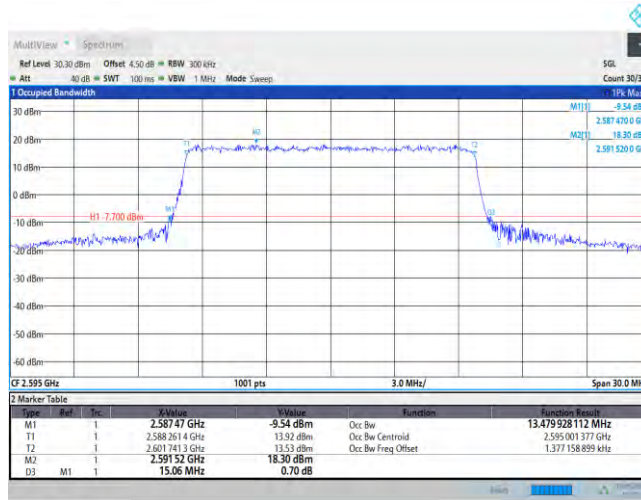
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Band38-15MHz-QPSK-37825-75RB#0



16:06:19 10.09.2022

Band38-15MHz-QPSK-38000-75RB#0



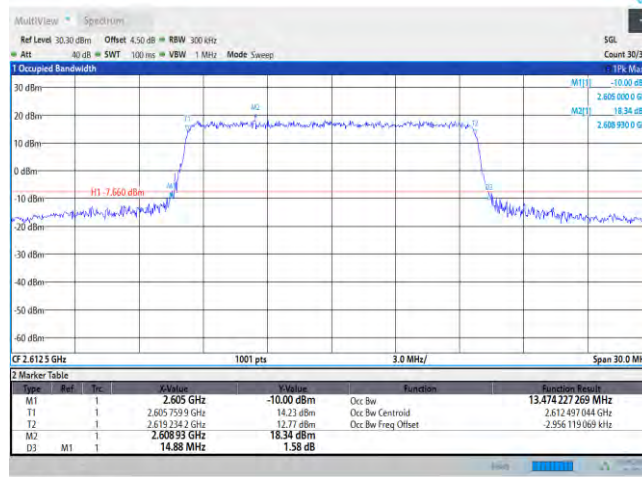
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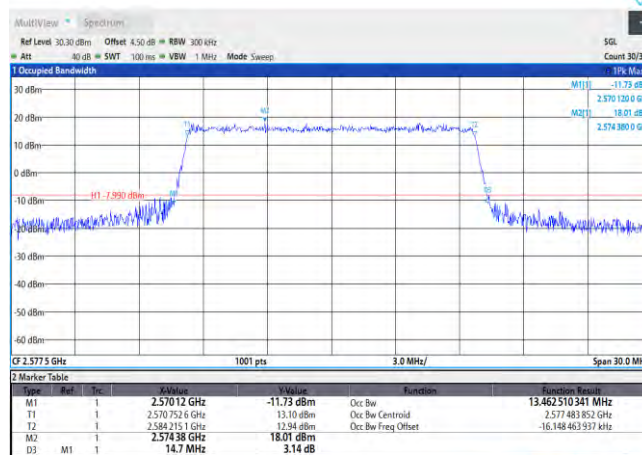
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Band38-15MHz-QPSK-38175-75RB#0



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Band38-15MHz-16QAM-37825-75RB#0



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16:07:23 10.09.2022

Band38-15MHz-16QAM-38175-75RB#0



16:08:12 10.09.2022



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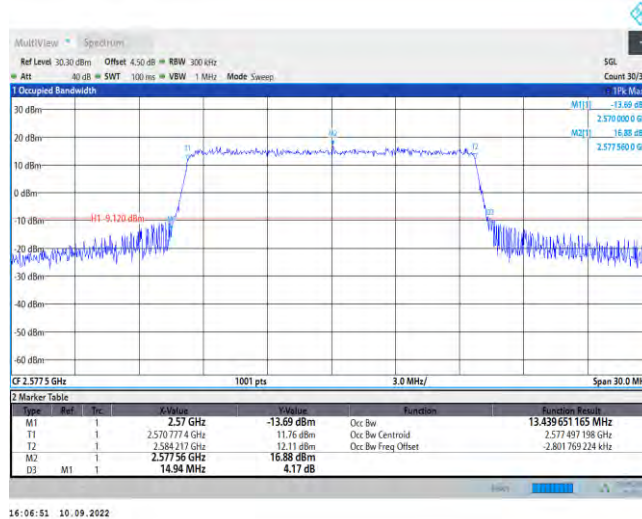
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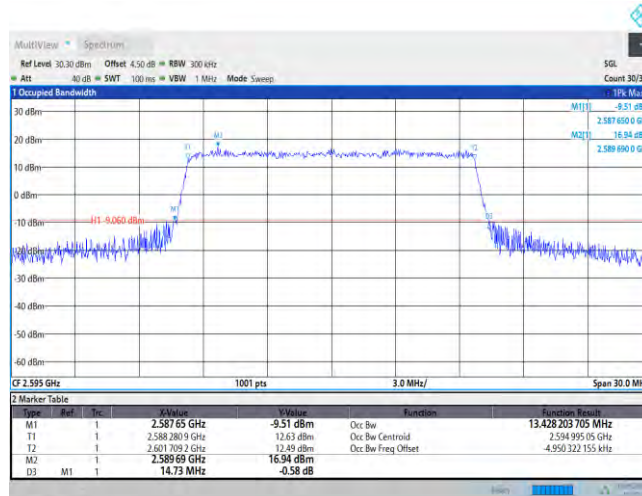
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Band38-15MHz-64QAM-37825-75RB#0



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Band38-15MHz-64QAM-38000-75RB#0



16:07:40 10.09.2022

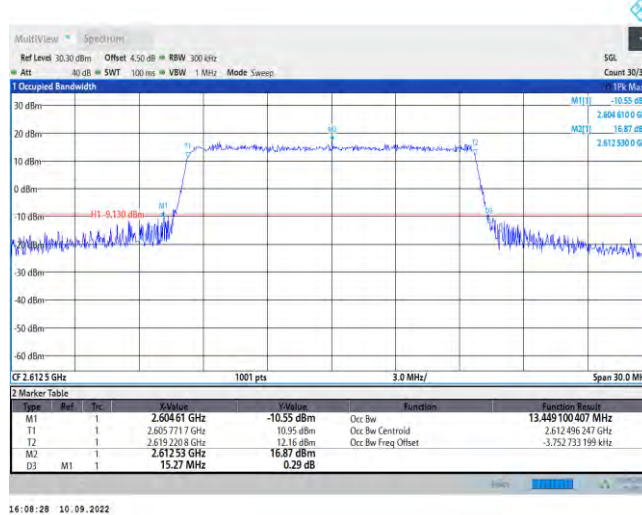


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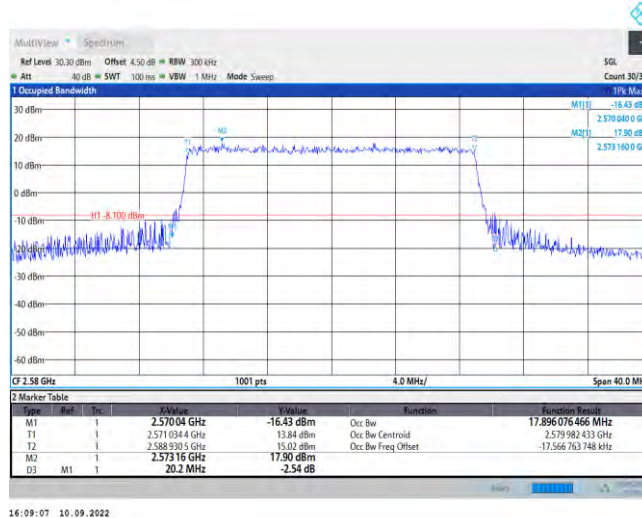
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Band38-15MHz-64QAM-38175-75RB#0



Band38-20MHz-QPSK-37850-100RB#0



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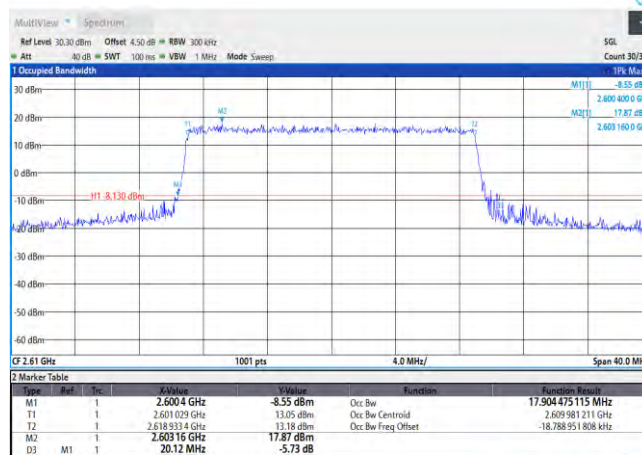
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Band38-20MHz-QPSK-38000-100RB#0



16:09:55 10.09.2022

Band38-20MHz-QPSK-38150-100RB#0



16:10:44 10.09.2022

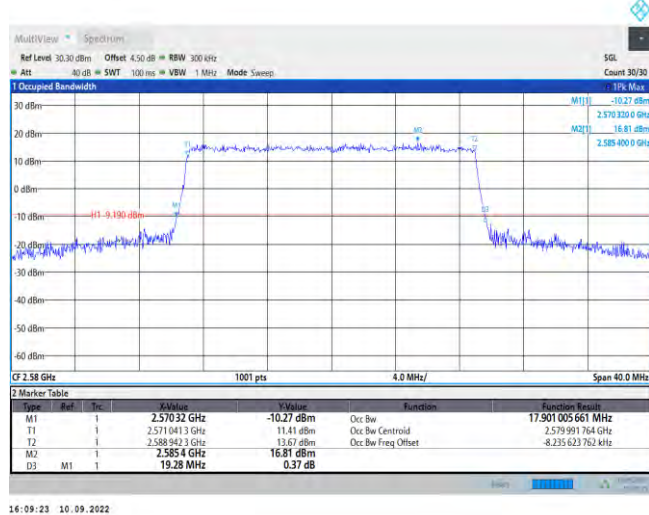


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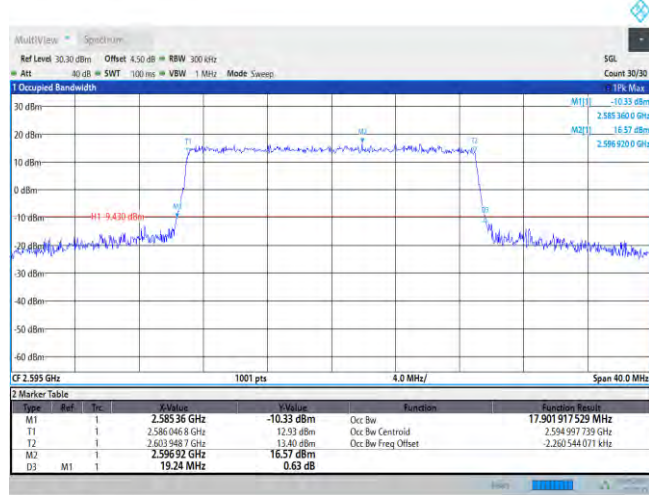
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Band38-20MHz-16QAM-37850-100RB#0



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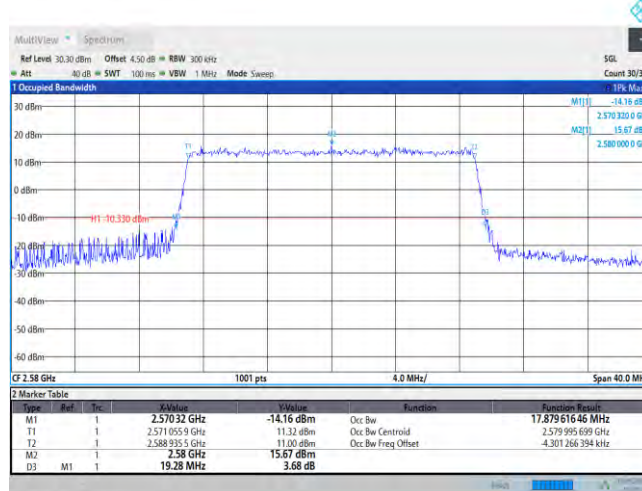
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Band38-20MHz-16QAM-38150-100RB#0



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Band38-20MHz-64QAM-37850-100RB#0



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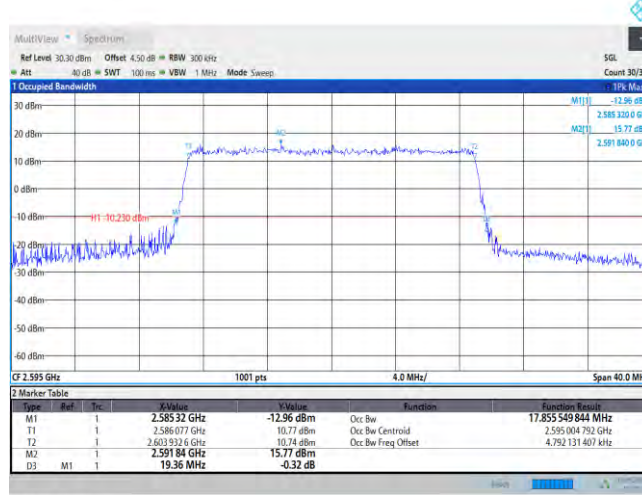


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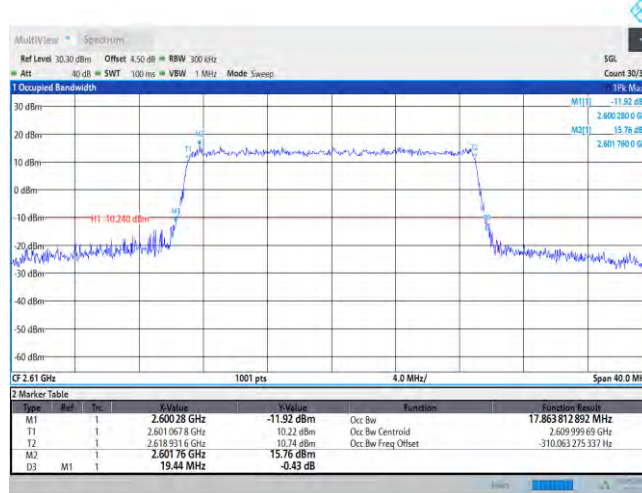
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Band38-20MHz-64QAM-38000-100RB#0



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Band38-20MHz-64QAM-38150-100RB#0



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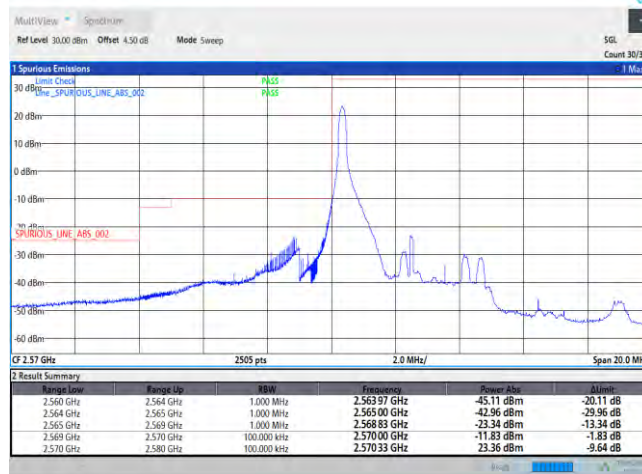
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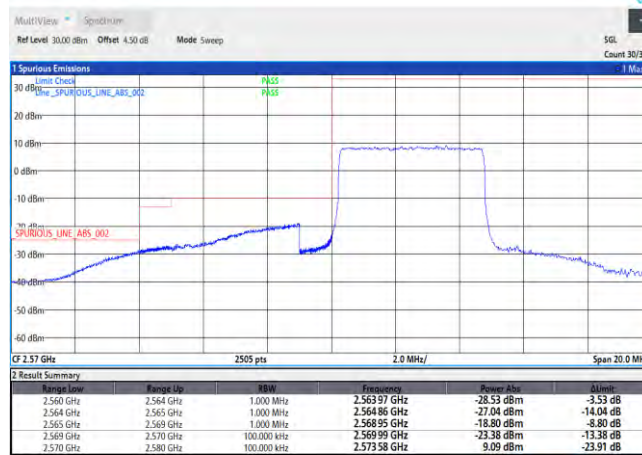
Band Edge

Test Graphs

Band38-5MHz-QPSK-37775-1RB#0



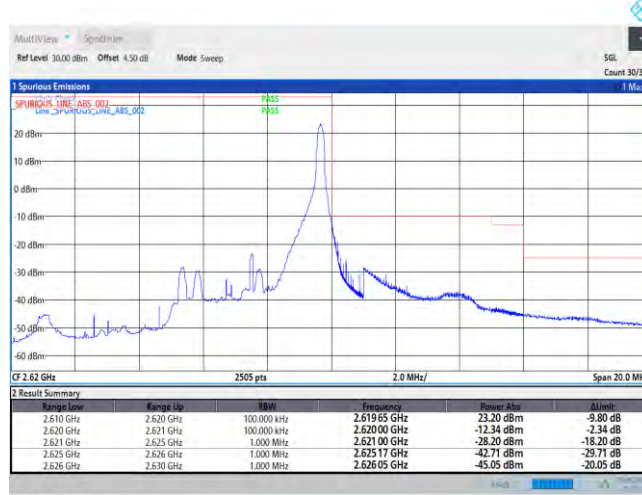
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Band38-5MHz-QPSK-38225-1RB#24



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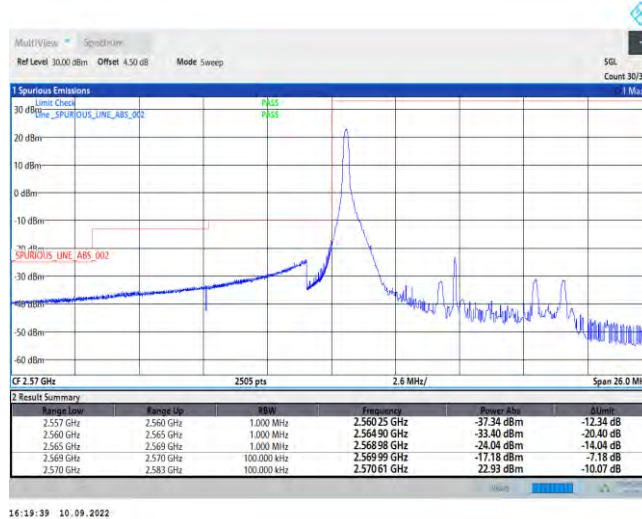


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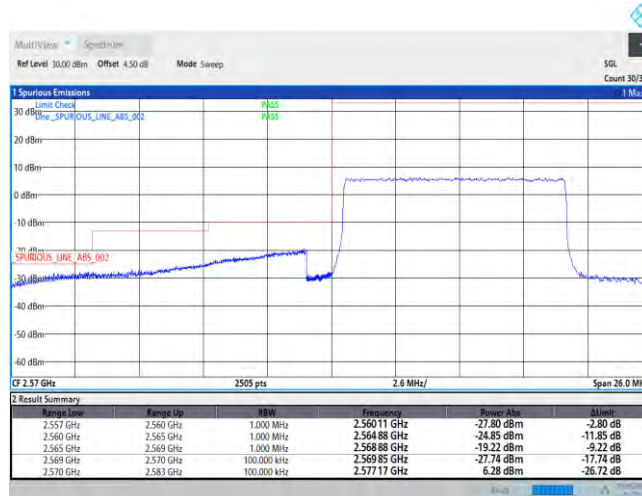
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Band38-10MHz-QPSK-37800-1RB#0



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Band38-10MHz-QPSK-37800-50RB#0



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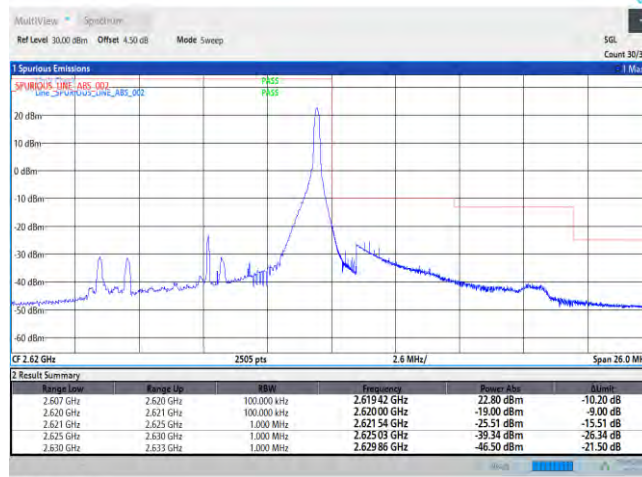


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Band38-10MHz-QPSK-38200-1RB#49



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Band38-10MHz-QPSK-38200-50RB#0



16:23:26 10.09.2022

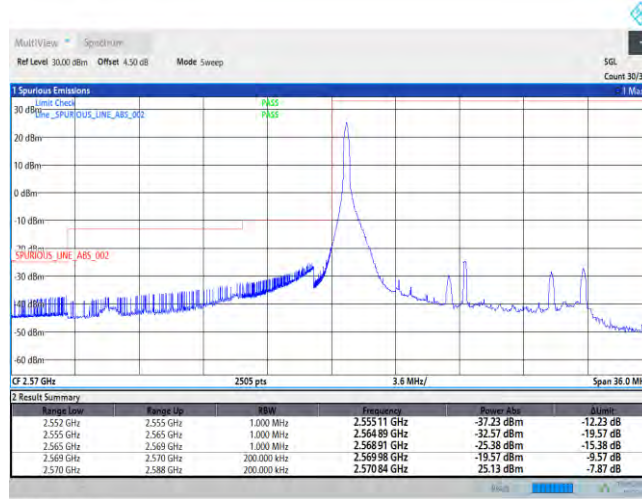


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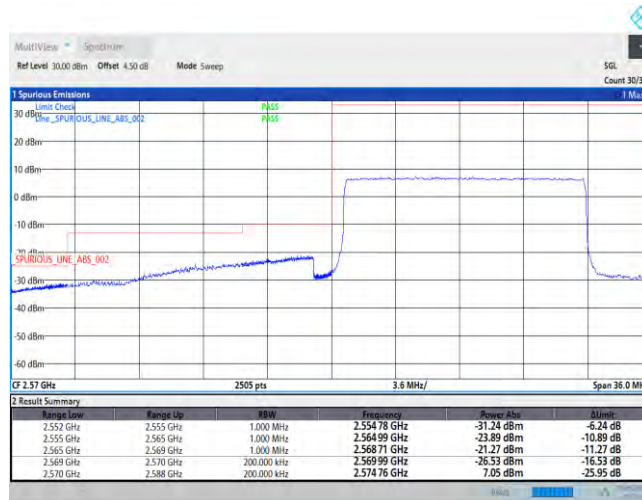
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Band38-15MHz-QPSK-37825-75RB#0



16:26:07 10.09.2022



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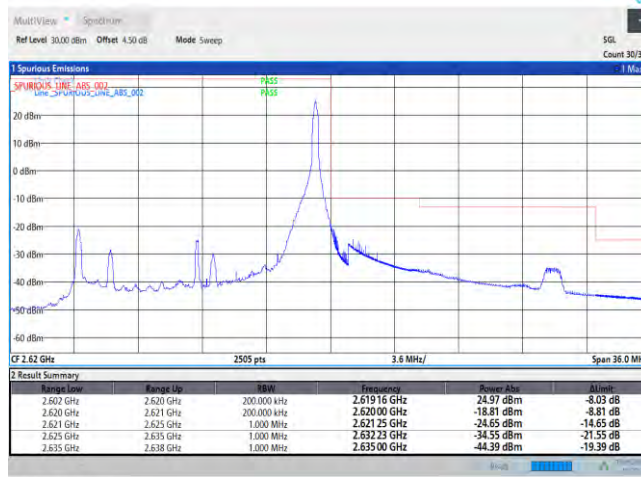
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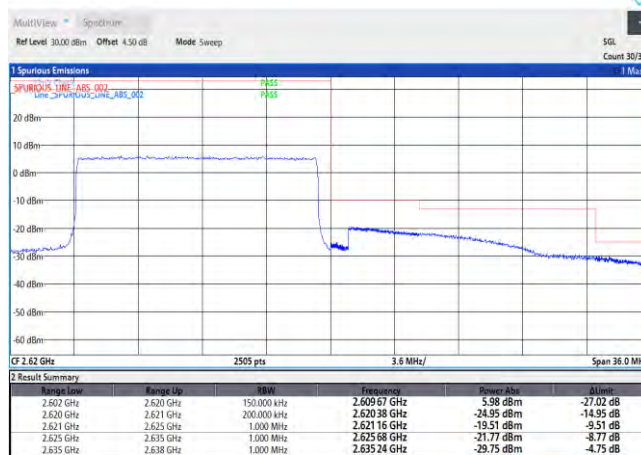
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Band38-15MHz-QPSK-38175-1RB#74



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Band38-15MHz-QPSK-38175-75RB#0



16:28:55 10.09.2022

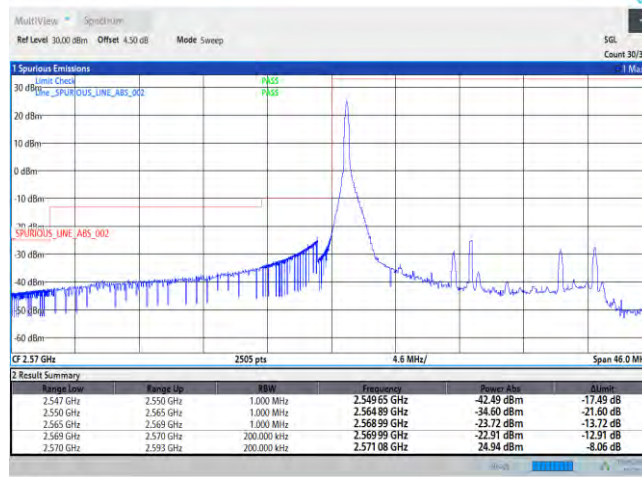


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Band38-20MHz-QPSK-37850-1RB#0



16:30:14 10.09.2022

Band38-20MHz-QPSK-37850-100RB#0



16:31:13 10.09.2022

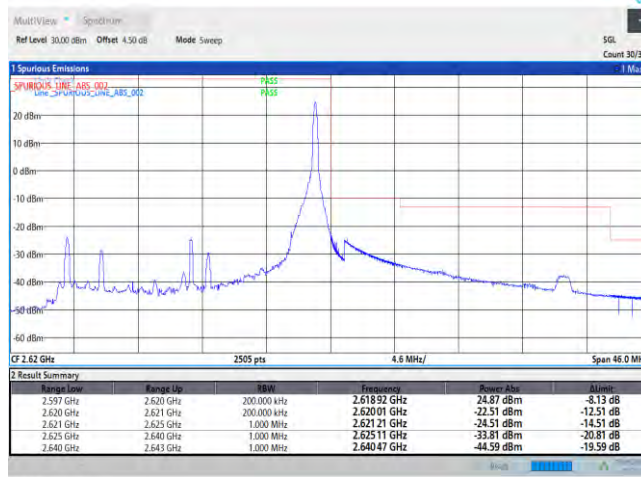


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Band38-20MHz-QPSK-38150-1RB#99



16:32:31 10.09.2022

Band38-20MHz-QPSK-38150-100RB#0



16:33:31 10.09.2022



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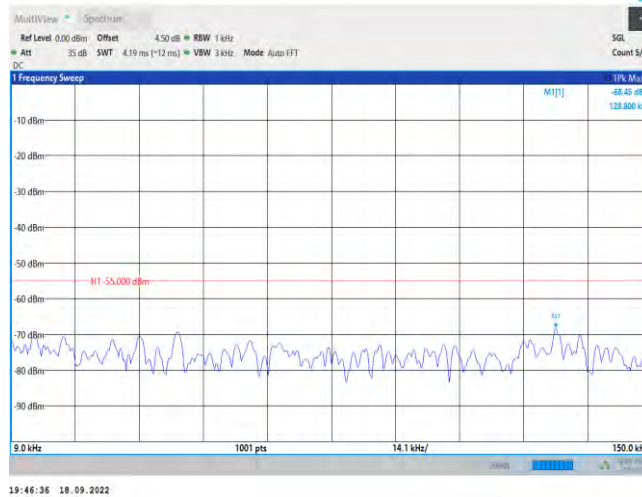
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Conducted Spurious Emission

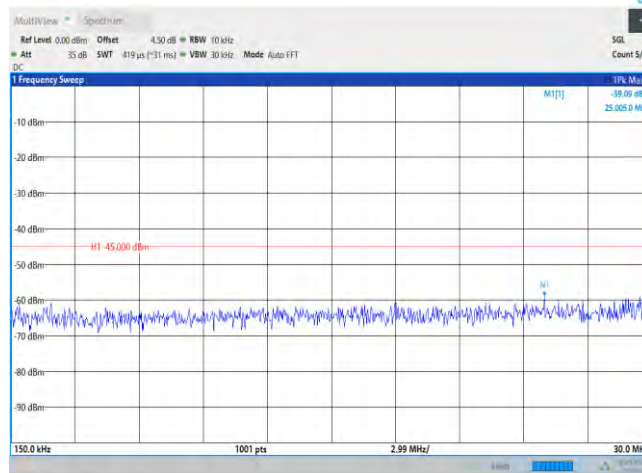
Test Graphs

Band38-20MHz-QPSK-37850-1RB#0-Range1:0.009~0.15MHz



19:46:36 18.09.2022

Band38-20MHz-QPSK-37850-1RB#0-Range2:0.15~30MHz



19:46:40 18.09.2022



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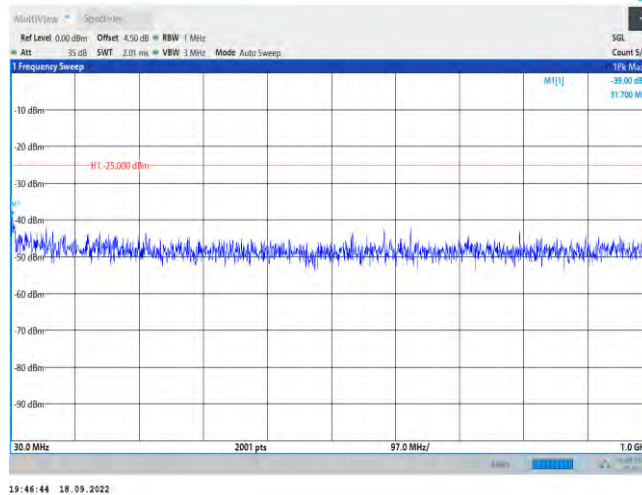
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



19:46:44 18.09.2022

Band38-20MHz-QPSK-37850-1RB#0-Range4:1000~20000MHz



19:46:50 18.09.2022



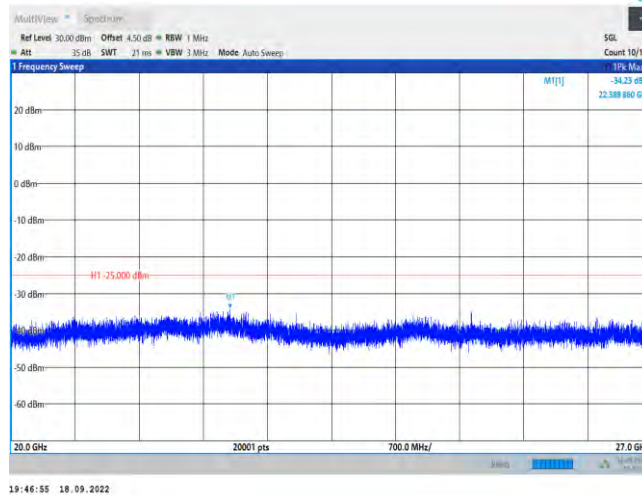
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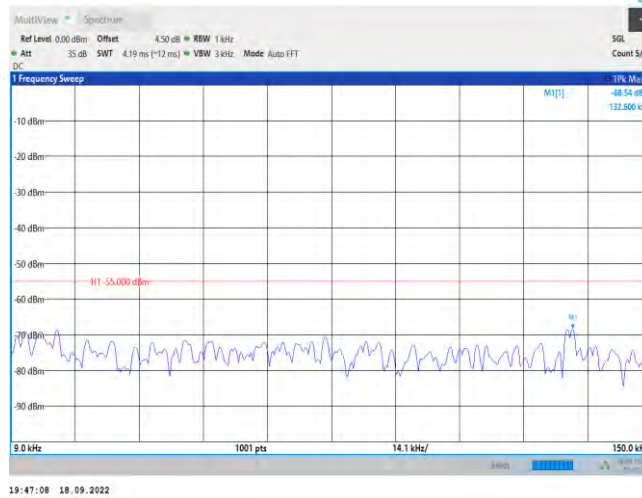
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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



Band38-20MHz-QPSK-38000-1RB#0-Range1:0.009~0.15MHz

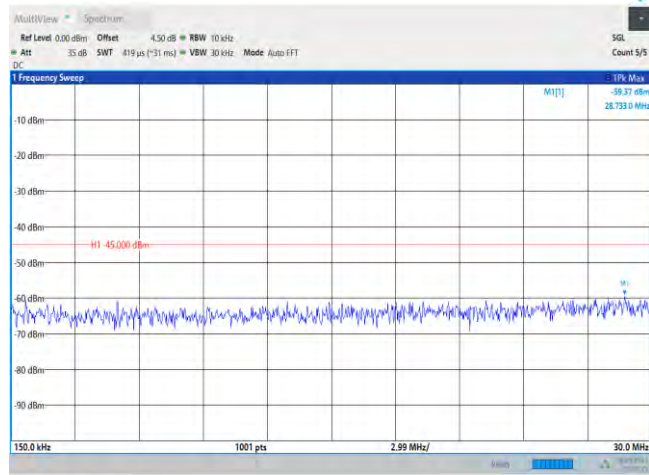


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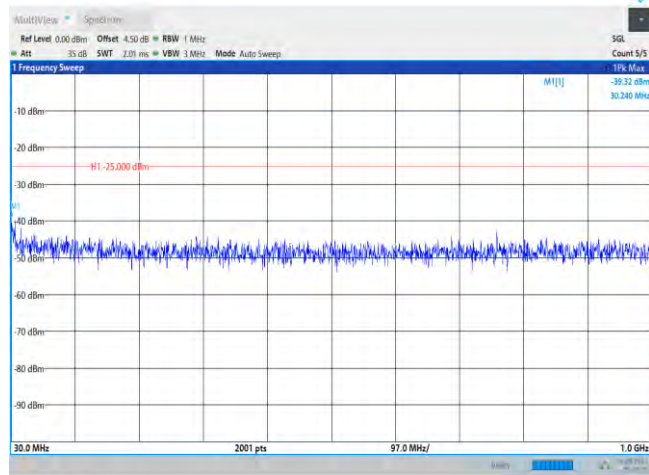
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Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



19:47:12 18.09.2022

Band38-20MHz-QPSK-38000-1RB#0-Range3:30~1000MHz



19:47:16 18.09.2022

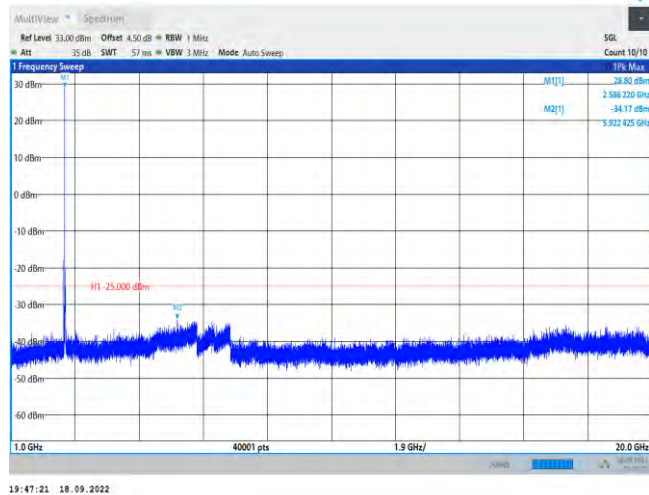


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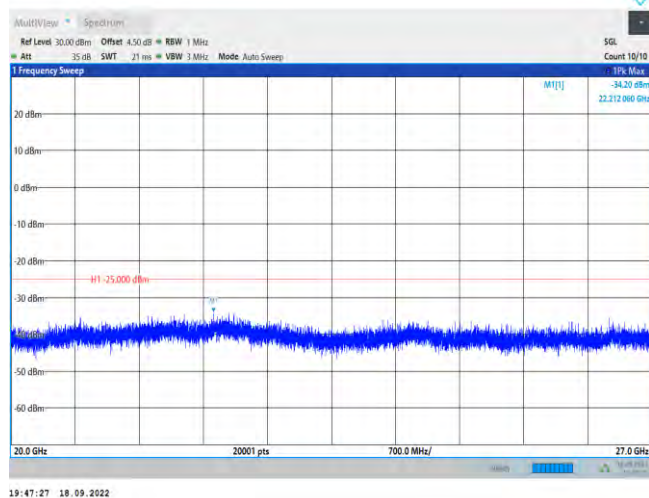
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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



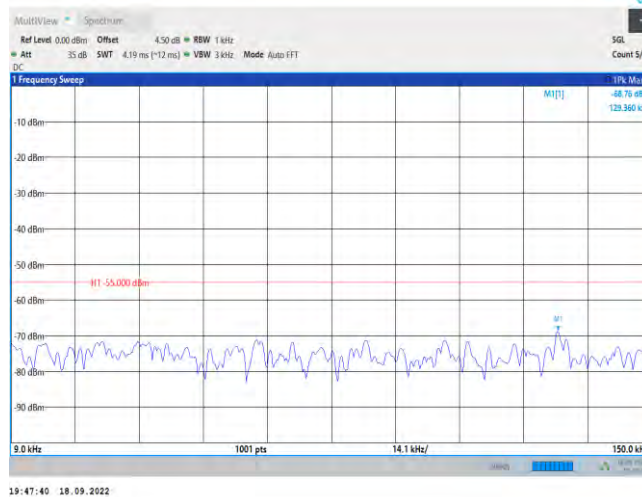
Band38-20MHz-QPSK-38000-1RB#0-Range5:20000~27000MHz



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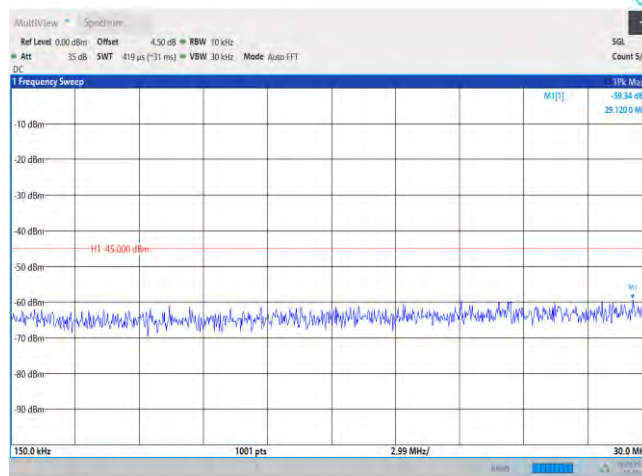
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Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



19:47:40 18.09.2022

Band38-20MHz-QPSK-38150-1RB#0-Range2:0.15~30MHz



19:47:44 18.09.2022



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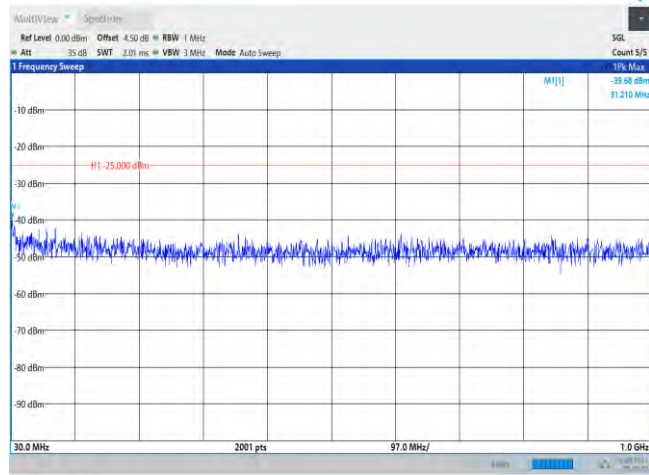
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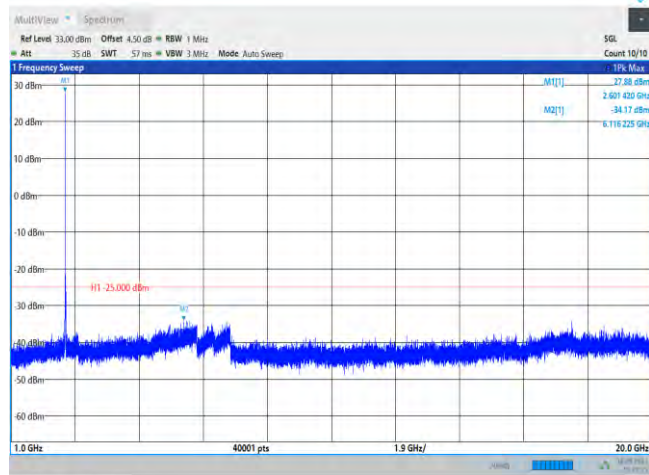
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Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



19:47:48 18.09.2022

Band38-20MHz-QPSK-38150-1RB#0-Range4:1000~20000MHz



19:47:53 18.09.2022



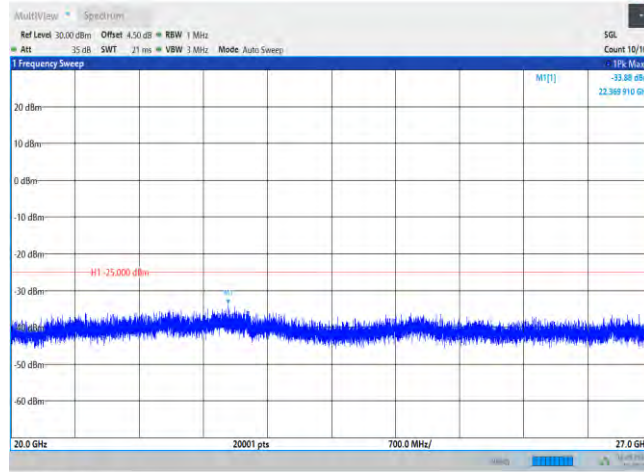
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Band38-20MHz-QPSK-38150-1RB#0-Range5:20000~27000MHz



19:47:58 18.09.2022



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Field Strength of Spurious Radiation

Test Band = LTE Band 38_ TM1
 Test Channel = Low ANT0

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5142.1800 | 48.89 | -45.33 | 32.96 | -58.74 | -25.00 | 33.74 | 141 | 88 | Horizontal |
| 2 | 7713.2700 | 45.97 | -43.01 | 36.61 | -55.69 | -25.00 | 30.69 | 156 | 166 | Horizontal |
| 3 | 10284.3600 | 37.66 | -39.15 | 38.83 | -57.92 | -25.00 | 32.92 | 214 | 195 | Horizontal |
| 4 | 12855.4500 | 33.59 | -36.99 | 39.69 | -58.97 | -25.00 | 33.97 | 226 | 195 | Horizontal |
| 5 | 15426.5400 | 31.60 | -33.99 | 38.67 | -58.98 | -25.00 | 33.98 | 257 | 240 | Horizontal |
| 6 | 17997.6300 | 33.97 | -34.58 | 42.23 | -53.63 | -25.00 | 28.63 | 198 | 26 | Horizontal |

Test Band = LTE Band 38_ TM1
 Test Channel = Low ANT0

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5142.1800 | 48.84 | -45.33 | 32.96 | -58.79 | -25.00 | 33.79 | 136 | 7 | Vertical |
| 2 | 7713.2700 | 46.51 | -43.01 | 36.61 | -55.15 | -25.00 | 30.15 | 142 | 1 | Vertical |
| 3 | 10284.3600 | 39.61 | -39.15 | 38.83 | -55.97 | -25.00 | 30.97 | 158 | 227 | Vertical |
| 4 | 12855.4500 | 34.41 | -36.99 | 39.69 | -58.15 | -25.00 | 33.15 | 216 | 105 | Vertical |
| 5 | 15426.5400 | 31.02 | -33.99 | 38.67 | -59.56 | -25.00 | 34.56 | 227 | 180 | Vertical |
| 6 | 17997.6300 | 33.76 | -34.58 | 42.23 | -53.84 | -25.00 | 28.84 | 237 | 105 | Vertical |



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Test Band = LTE Band 38_ TM1
Test Channel = Middle ANT0

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1318 | 43.39 | -24.73 | 25.61 | -50.99 | -25.00 | 25.99 | 157 | 69 | Horizontal |
| 2 | 5172.1800 | 47.41 | -45.30 | 32.98 | -60.18 | -25.00 | 35.18 | 261 | 1 | Horizontal |
| 3 | 7758.2700 | 44.59 | -42.64 | 36.70 | -56.61 | -25.00 | 31.61 | 228 | 119 | Horizontal |
| 4 | 10344.3600 | 38.75 | -39.05 | 38.85 | -56.72 | -25.00 | 31.72 | 194 | 178 | Horizontal |
| 5 | 12930.4500 | 33.10 | -37.18 | 39.76 | -59.58 | -25.00 | 34.58 | 163 | 0 | Horizontal |
| 6 | 15516.5400 | 30.88 | -35.30 | 38.55 | -61.13 | -25.00 | 36.13 | 155 | 329 | Horizontal |

Test Band = LTE Band 38_ TM1
Test Channel = Middle ANT0

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1959.3333 | 39.65 | -24.50 | 26.39 | -53.71 | -25.00 | 28.71 | 168 | 225 | Vertical |
| 2 | 5172.1800 | 47.55 | -45.30 | 32.98 | -60.04 | -25.00 | 35.04 | 162 | 0 | Vertical |
| 3 | 7758.2700 | 46.72 | -42.64 | 36.70 | -54.48 | -25.00 | 29.48 | 159 | 92 | Vertical |
| 4 | 10344.3600 | 38.50 | -39.05 | 38.85 | -56.97 | -25.00 | 31.97 | 148 | 208 | Vertical |
| 5 | 12930.4500 | 34.20 | -37.18 | 39.76 | -58.48 | -25.00 | 33.48 | 225 | 331 | Vertical |
| 6 | 15516.5400 | 29.89 | -35.30 | 38.55 | -62.12 | -25.00 | 37.12 | 235 | 316 | Vertical |



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Test Band = LTE Band 38_ TM1
Test Channel = High ANTO

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1340 | 43.28 | -24.87 | 25.61 | -51.24 | -25.00 | 26.24 | 143 | 4 | Horizontal |
| 2 | 5202.1800 | 48.83 | -45.27 | 32.99 | -58.72 | -25.00 | 33.72 | 152 | 162 | Horizontal |
| 3 | 7803.2700 | 44.74 | -42.33 | 36.78 | -56.06 | -25.00 | 31.06 | 167 | 178 | Horizontal |
| 4 | 10404.3600 | 36.73 | -39.00 | 38.86 | -58.67 | -25.00 | 33.67 | 192 | 70 | Horizontal |
| 5 | 13005.4500 | 32.40 | -37.31 | 39.83 | -60.34 | -25.00 | 35.34 | 136 | 357 | Horizontal |
| 6 | 15606.5400 | 30.06 | -34.87 | 38.43 | -61.64 | -25.00 | 36.64 | 218 | 16 | Horizontal |

Test Band = LTE Band 38_ TM1
Test Channel = High ANTO

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1951.3333 | 39.74 | -24.50 | 26.35 | -53.68 | -25.00 | 28.68 | 227 | 359 | Vertical |
| 2 | 5202.1800 | 47.98 | -45.27 | 32.99 | -59.57 | -25.00 | 34.57 | 152 | 7 | Vertical |
| 3 | 7803.2700 | 45.50 | -42.33 | 36.78 | -55.30 | -25.00 | 30.30 | 168 | 242 | Vertical |
| 4 | 10404.3600 | 37.73 | -39.00 | 38.86 | -57.67 | -25.00 | 32.67 | 194 | 227 | Vertical |
| 5 | 13005.4500 | 32.46 | -37.31 | 39.83 | -60.28 | -25.00 | 35.28 | 215 | 347 | Vertical |
| 6 | 15606.5400 | 29.85 | -34.87 | 38.43 | -61.85 | -25.00 | 36.85 | 229 | 72 | Vertical |



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Test Band = LTE Band 38_ TM1
Test Channel = Low ANT1

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5142.1800 | 47.65 | -45.33 | 32.96 | -59.98 | -25.00 | 34.98 | 164 | 104 | Horizontal |
| 2 | 7713.2700 | 44.74 | -43.01 | 36.61 | -56.92 | -25.00 | 31.92 | 158 | 0 | Horizontal |
| 3 | 10284.3600 | 37.71 | -39.15 | 38.83 | -57.87 | -25.00 | 32.87 | 263 | 195 | Horizontal |
| 4 | 12855.4500 | 34.11 | -36.99 | 39.69 | -58.45 | -25.00 | 33.45 | 227 | 209 | Horizontal |
| 5 | 15426.5400 | 30.85 | -33.99 | 38.67 | -59.73 | -25.00 | 34.73 | 195 | 209 | Horizontal |
| 6 | 17997.6300 | 33.84 | -34.58 | 42.23 | -53.76 | -25.00 | 28.76 | 183 | 239 | Horizontal |

Test Band = LTE Band 38_ TM1
Test Channel = Low ANT1

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5142.1800 | 48.30 | -45.33 | 32.96 | -59.33 | -25.00 | 34.33 | 231 | 194 | Vertical |
| 2 | 7713.2700 | 45.39 | -43.01 | 36.61 | -56.27 | -25.00 | 31.27 | 225 | 26 | Vertical |
| 3 | 10284.3600 | 41.54 | -39.15 | 38.83 | -54.04 | -25.00 | 29.04 | 164 | 207 | Vertical |
| 4 | 12855.4500 | 33.79 | -36.99 | 39.69 | -58.77 | -25.00 | 33.77 | 159 | 0 | Vertical |
| 5 | 15426.5400 | 31.10 | -33.99 | 38.67 | -59.48 | -25.00 | 34.48 | 118 | 147 | Vertical |
| 6 | 17997.6300 | 34.75 | -34.58 | 42.23 | -52.85 | -25.00 | 27.85 | 171 | 240 | Vertical |



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Test Band = LTE Band 38_ TM1
Test Channel = Middle ANT1

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1318 | 43.59 | -24.73 | 25.61 | -50.79 | -25.00 | 25.79 | 134 | 54 | Horizontal |
| 2 | 5172.1800 | 47.98 | -45.30 | 32.98 | -59.61 | -25.00 | 34.61 | 156 | 178 | Horizontal |
| 3 | 7758.2700 | 45.12 | -42.64 | 36.70 | -56.08 | -25.00 | 31.08 | 213 | 316 | Horizontal |
| 4 | 10344.3600 | 38.34 | -39.05 | 38.85 | -57.13 | -25.00 | 32.13 | 226 | 192 | Horizontal |
| 5 | 12930.4500 | 33.47 | -37.18 | 39.76 | -59.21 | -25.00 | 34.21 | 184 | 71 | Horizontal |
| 6 | 15516.5400 | 30.44 | -35.30 | 38.55 | -61.57 | -25.00 | 36.57 | 176 | 316 | Horizontal |

Test Band = LTE Band 38_ TM1
Test Channel = Middle ANT1

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1051.3333 | 39.74 | -24.57 | 25.43 | -54.66 | -25.00 | 29.66 | 179 | 180 | Vertical |
| 2 | 5172.1800 | 48.28 | -45.30 | 32.98 | -59.31 | -25.00 | 34.31 | 251 | 90 | Vertical |
| 3 | 7758.2700 | 45.88 | -42.64 | 36.70 | -55.32 | -25.00 | 30.32 | 226 | 239 | Vertical |
| 4 | 10344.3600 | 40.60 | -39.05 | 38.85 | -54.87 | -25.00 | 29.87 | 243 | 182 | Vertical |
| 5 | 12930.4500 | 33.29 | -37.18 | 39.76 | -59.39 | -25.00 | 34.39 | 159 | 237 | Vertical |
| 6 | 15516.5400 | 30.33 | -35.30 | 38.55 | -61.68 | -25.00 | 36.68 | 118 | 85 | Vertical |



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Test Band = LTE Band 38_ TM1
Test Channel = High ANT1

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1340 | 45.94 | -24.87 | 25.61 | -48.58 | -25.00 | 23.58 | 147 | 56 | Horizontal |
| 2 | 5202.1800 | 48.12 | -45.27 | 32.99 | -59.43 | -25.00 | 34.43 | 159 | 134 | Horizontal |
| 3 | 7803.2700 | 46.21 | -42.33 | 36.78 | -54.59 | -25.00 | 29.59 | 216 | 6 | Horizontal |
| 4 | 10404.3600 | 36.64 | -39.00 | 38.86 | -58.76 | -25.00 | 33.76 | 228 | 177 | Horizontal |
| 5 | 13005.4500 | 33.49 | -37.31 | 39.83 | -59.25 | -25.00 | 34.25 | 235 | 0 | Horizontal |
| 6 | 15606.5400 | 29.95 | -34.87 | 38.43 | -61.75 | -25.00 | 36.75 | 227 | 177 | Horizontal |

Test Band = LTE Band 38_ TM1
Test Channel = High ANT1

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1681.3333 | 41.77 | -24.75 | 25.38 | -52.86 | -25.00 | 27.86 | 161 | 242 | Vertical |
| 2 | 5202.1800 | 47.83 | -45.27 | 32.99 | -59.72 | -25.00 | 34.72 | 251 | 0 | Vertical |
| 3 | 7803.2700 | 45.86 | -42.33 | 36.78 | -54.94 | -25.00 | 29.94 | 223 | 118 | Vertical |
| 4 | 10404.3600 | 39.34 | -39.00 | 38.86 | -56.06 | -25.00 | 31.06 | 272 | 210 | Vertical |
| 5 | 13005.4500 | 33.54 | -37.31 | 39.83 | -59.20 | -25.00 | 34.20 | 219 | 133 | Vertical |
| 6 | 15606.5400 | 30.36 | -34.87 | 38.43 | -61.34 | -25.00 | 36.34 | 197 | 356 | Vertical |



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Test Band = LTE Band 38_ TM1
Test Channel = Low ANT2

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5142.1800 | 47.89 | -45.33 | 32.96 | -59.74 | -25.00 | 34.74 | 238 | 148 | Horizontal |
| 2 | 7713.2700 | 45.39 | -43.01 | 36.61 | -56.27 | -25.00 | 31.27 | 223 | 74 | Horizontal |
| 3 | 10284.3600 | 39.82 | -39.15 | 38.83 | -55.76 | -25.00 | 30.76 | 135 | 180 | Horizontal |
| 4 | 12855.4500 | 33.49 | -36.99 | 39.69 | -59.07 | -25.00 | 34.07 | 156 | 182 | Horizontal |
| 5 | 15426.5400 | 30.66 | -33.99 | 38.67 | -59.92 | -25.00 | 34.92 | 149 | 0 | Horizontal |
| 6 | 17997.6300 | 34.05 | -34.58 | 42.23 | -53.55 | -25.00 | 28.55 | 228 | 357 | Horizontal |

Test Band = LTE Band 38_ TM1
Test Channel = Low ANT2

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5142.1800 | 48.61 | -45.33 | 32.96 | -59.02 | -25.00 | 34.02 | 139 | 132 | Vertical |
| 2 | 7713.2700 | 45.46 | -43.01 | 36.61 | -56.20 | -25.00 | 31.20 | 215 | 42 | Vertical |
| 3 | 10284.3600 | 40.84 | -39.15 | 38.83 | -54.74 | -25.00 | 29.74 | 226 | 194 | Vertical |
| 4 | 12855.4500 | 33.57 | -36.99 | 39.69 | -58.99 | -25.00 | 33.99 | 182 | 178 | Vertical |
| 5 | 15426.5400 | 31.25 | -33.99 | 38.67 | -59.33 | -25.00 | 34.33 | 148 | 316 | Vertical |
| 6 | 17997.6300 | 34.78 | -34.58 | 42.23 | -52.82 | -25.00 | 27.82 | 226 | 72 | Vertical |



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Test Band = LTE Band 38_ TM1

Test Channel = Middle ANT2

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1318 | 41.81 | -24.73 | 25.61 | -52.57 | -25.00 | 27.57 | 163 | 50 | Horizontal |
| 2 | 5172.1800 | 47.89 | -45.30 | 32.98 | -59.70 | -25.00 | 34.70 | 152 | 316 | Horizontal |
| 3 | 7758.2700 | 44.11 | -42.64 | 36.70 | -57.09 | -25.00 | 32.09 | 183 | 135 | Horizontal |
| 4 | 10344.3600 | 38.24 | -39.05 | 38.85 | -57.23 | -25.00 | 32.23 | 176 | 287 | Horizontal |
| 5 | 12930.4500 | 32.99 | -37.18 | 39.76 | -59.69 | -25.00 | 34.69 | 215 | 121 | Horizontal |
| 6 | 15516.5400 | 30.96 | -35.30 | 38.55 | -61.05 | -25.00 | 36.05 | 221 | 90 | Horizontal |

Test Band = LTE Band 38_ TM1

Test Channel = Middle ANT2

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1079.3333 | 40.82 | -24.90 | 25.46 | -53.88 | -25.00 | 28.88 | 167 | 233 | Vertical |
| 2 | 5172.1800 | 48.92 | -45.30 | 32.98 | -58.67 | -25.00 | 33.67 | 158 | 1 | Vertical |
| 3 | 7758.2700 | 45.64 | -42.64 | 36.70 | -55.56 | -25.00 | 30.56 | 216 | 356 | Vertical |
| 4 | 10344.3600 | 38.80 | -39.05 | 38.85 | -56.67 | -25.00 | 31.67 | 224 | 180 | Vertical |
| 5 | 12930.4500 | 34.24 | -37.18 | 39.76 | -58.44 | -25.00 | 33.44 | 231 | 87 | Vertical |
| 6 | 15516.5400 | 30.41 | -35.30 | 38.55 | -61.60 | -25.00 | 36.60 | 229 | 356 | Vertical |



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Test Band = LTE Band 38_ TM1
Test Channel = High ANT2

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1340.6667 | 43.21 | -24.87 | 25.61 | -51.31 | -25.00 | 26.31 | 174 | 71 | Horizontal |
| 2 | 5202.1800 | 47.55 | -45.27 | 32.99 | -60.00 | -25.00 | 35.00 | 156 | 98 | Horizontal |
| 3 | 7803.2700 | 44.77 | -42.33 | 36.78 | -56.03 | -25.00 | 31.03 | 192 | 98 | Horizontal |
| 4 | 10404.3600 | 36.38 | -39.00 | 38.86 | -59.02 | -25.00 | 34.02 | 135 | 195 | Horizontal |
| 5 | 13005.4500 | 32.41 | -37.31 | 39.83 | -60.33 | -25.00 | 35.33 | 118 | 346 | Horizontal |
| 6 | 15606.5400 | 30.03 | -34.87 | 38.43 | -61.67 | -25.00 | 36.67 | 176 | 256 | Horizontal |

Test Band = LTE Band 38_ TM1
Test Channel = High ANT2

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1959.3333 | 39.26 | -24.50 | 26.39 | -54.10 | -25.00 | 29.10 | 225 | 227 | Vertical |
| 2 | 5202.1800 | 49.94 | -45.27 | 32.99 | -57.61 | -25.00 | 32.61 | 246 | 1 | Vertical |
| 3 | 7803.2700 | 45.16 | -42.33 | 36.78 | -55.64 | -25.00 | 30.64 | 237 | 117 | Vertical |
| 4 | 10404.3600 | 38.01 | -39.00 | 38.86 | -57.39 | -25.00 | 32.39 | 219 | 208 | Vertical |
| 5 | 13005.4500 | 33.70 | -37.31 | 39.83 | -59.04 | -25.00 | 34.04 | 192 | 148 | Vertical |
| 6 | 15606.5400 | 29.70 | -34.87 | 38.43 | -62.00 | -25.00 | 37.00 | 164 | 344 | Vertical |



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Test Band = LTE Band 38_ TM1
Test Channel = Low ANT3

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5142.1800 | 47.23 | -45.33 | 32.96 | -60.40 | -25.00 | 35.40 | 163 | 119 | Horizontal |
| 2 | 7713.2700 | 45.81 | -43.01 | 36.61 | -55.85 | -25.00 | 30.85 | 215 | 90 | Horizontal |
| 3 | 10284.3600 | 37.76 | -39.15 | 38.83 | -57.82 | -25.00 | 32.82 | 223 | 0 | Horizontal |
| 4 | 12855.4500 | 34.16 | -36.99 | 39.69 | -58.40 | -25.00 | 33.40 | 241 | 150 | Horizontal |
| 5 | 15426.5400 | 31.01 | -33.99 | 38.67 | -59.57 | -25.00 | 34.57 | 183 | 300 | Horizontal |
| 6 | 17997.6300 | 33.80 | -34.58 | 42.23 | -53.80 | -25.00 | 28.80 | 176 | 195 | Horizontal |

Test Band = LTE Band 38_ TM1
Test Channel = Low ANT3

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5142.1800 | 48.35 | -45.33 | 32.96 | -59.28 | -25.00 | 34.28 | 168 | 313 | Vertical |
| 2 | 7713.2700 | 46.20 | -43.01 | 36.61 | -55.46 | -25.00 | 30.46 | 179 | 162 | Vertical |
| 3 | 10284.3600 | 41.13 | -39.15 | 38.83 | -54.45 | -25.00 | 29.45 | 216 | 191 | Vertical |
| 4 | 12855.4500 | 34.18 | -36.99 | 39.69 | -58.38 | -25.00 | 33.38 | 224 | 54 | Vertical |
| 5 | 15426.5400 | 30.21 | -33.99 | 38.67 | -60.37 | -25.00 | 35.37 | 235 | 1 | Vertical |
| 6 | 17997.6300 | 33.25 | -34.58 | 42.23 | -54.35 | -25.00 | 29.35 | 182 | 330 | Vertical |



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Test Band = LTE Band 38_ TM1
Test Channel = Middle ANT3

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1318 | 41.63 | -24.73 | 25.61 | -52.75 | -25.00 | 27.75 | 159 | 69 | Horizontal |
| 2 | 5172.1800 | 47.18 | -45.30 | 32.98 | -60.41 | -25.00 | 35.41 | 141 | 89 | Horizontal |
| 3 | 7758.2700 | 44.87 | -42.64 | 36.70 | -56.33 | -25.00 | 31.33 | 264 | 181 | Horizontal |
| 4 | 10344.3600 | 38.50 | -39.05 | 38.85 | -56.97 | -25.00 | 31.97 | 225 | 194 | Horizontal |
| 5 | 12930.4500 | 33.28 | -37.18 | 39.76 | -59.40 | -25.00 | 34.40 | 173 | 357 | Horizontal |
| 6 | 15516.5400 | 30.05 | -35.30 | 38.55 | -61.96 | -25.00 | 36.96 | 235 | 58 | Horizontal |

Test Band = LTE Band 38_ TM1
Test Channel = Middle ANT3

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1215.3333 | 42.14 | -25.13 | 25.59 | -52.66 | -25.00 | 27.66 | 191 | 208 | Vertical |
| 2 | 5172.1800 | 48.82 | -45.30 | 32.98 | -58.77 | -25.00 | 33.77 | 193 | 1 | Vertical |
| 3 | 7758.2700 | 46.45 | -42.64 | 36.70 | -54.75 | -25.00 | 29.75 | 213 | 256 | Vertical |
| 4 | 10344.3600 | 41.46 | -39.05 | 38.85 | -54.01 | -25.00 | 29.01 | 226 | 195 | Vertical |
| 5 | 12930.4500 | 34.06 | -37.18 | 39.76 | -58.62 | -25.00 | 33.62 | 146 | 104 | Vertical |
| 6 | 15516.5400 | 30.40 | -35.30 | 38.55 | -61.61 | -25.00 | 36.61 | 187 | 212 | Vertical |



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Test Band = LTE Band 38_ TM1

Test Channel = High ANT3

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1340.6667 | 43.47 | -24.87 | 25.61 | -51.05 | -25.00 | 26.05 | 168 | 78 | Horizontal |
| 2 | 5202.1800 | 47.46 | -45.27 | 32.99 | -60.09 | -25.00 | 35.09 | 172 | 43 | Horizontal |
| 3 | 7803.2700 | 44.43 | -42.33 | 36.78 | -56.37 | -25.00 | 31.37 | 159 | 195 | Horizontal |
| 4 | 10404.3600 | 36.84 | -39.00 | 38.86 | -58.56 | -25.00 | 33.56 | 221 | 269 | Horizontal |
| 5 | 13005.4500 | 33.28 | -37.31 | 39.83 | -59.46 | -25.00 | 34.46 | 243 | 255 | Horizontal |
| 6 | 15606.5400 | 30.06 | -34.87 | 38.43 | -61.64 | -25.00 | 36.64 | 167 | 58 | Horizontal |

Test Band = LTE Band 38_ TM1

Test Channel = High ANT3

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1950 | 39.82 | -24.51 | 26.34 | -53.61 | -25.00 | 28.61 | 136 | 352 | Vertical |
| 2 | 5202.1800 | 48.27 | -45.27 | 32.99 | -59.28 | -25.00 | 34.28 | 215 | 6 | Vertical |
| 3 | 7803.2700 | 47.12 | -42.33 | 36.78 | -53.68 | -25.00 | 28.68 | 224 | 59 | Vertical |
| 4 | 10404.3600 | 41.20 | -39.00 | 38.86 | -54.20 | -25.00 | 29.20 | 167 | 213 | Vertical |
| 5 | 13005.4500 | 33.04 | -37.31 | 39.83 | -59.70 | -25.00 | 34.70 | 128 | 134 | Vertical |
| 6 | 15606.5400 | 30.95 | -34.87 | 38.43 | -60.75 | -25.00 | 35.75 | 139 | 59 | 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 |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | VL | NT | 1.20 | 0.000462 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | VN | NT | -2.90 | -0.001118 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | VH | NT | 12.10 | 0.004663 | PASS |

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | -30 | -3.90 | -0.001503 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | -20 | -1.80 | -0.000694 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | -10 | -4.00 | -0.001541 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | 0 | 7.30 | 0.002813 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | 10 | 13.70 | 0.005279 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | 20 | -0.20 | -0.000077 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | 30 | -0.50 | -0.000193 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | 40 | 9.50 | 0.003661 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | 50 | 9.00 | 0.003468 | PASS |

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