



Appendix B

E-UTRA Band 38



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CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER 5

1.1. TEST RESULT 5

2. PEAK-TO-AVERAGE RATIO (CCDF)12

2.1. TEST RESULT 12

2.2. TEST PLOTS..... 12

3. MODULATION CHARACTERISTICS17

3.1. TEST MODE = LTE /TM1 20MHZ..... 17

3.1.1. TEST CHANNEL = MCH..... 17

3.2. TEST MODE = LTE /TM2 20MHZ..... 18

3.2.1. TEST CHANNEL = MCH..... 18

3.3. TEST MODE = LTE /TM3 20MHZ..... 19

3.3.1. TEST CHANNEL = MCH..... 19

4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH20

4.1. TEST RESULT 20

4.2. TEST PLOTS..... 21

5. BAND EDGE COMPLIANCE40

5.1. TEST PLOTS..... 40

6. SPURIOUS EMISSION AT ANTENNA TERMINAL65

6.1. TEST PLOTS..... 65

7. FIELD STRENGTH OF SPURIOUS RADIATION75

7.1. Test Band = LTE_Band=38 BW=20MHz ANTO 75

7.1.1. Test Channel = Mid Channel 75

7.2. Test Band = LTE_Band=38 BW=20MHz ANTO 76

7.2.1. Test Channel = Mid Channel 76

7.3. Test Band = LTE_Band=38 BW=20MHz ANTO 77

7.3.1. Test Channel = High Channel 77

7.4. Test Band = LTE_Band=38 BW=20MHz ANTO 78

7.4.1. Test Channel = High Channel 78

7.5. Test Band = LTE_Band=41 BW=20MHz ANTO 79

7.5.1. Test Channel = Mid Channel 79



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



7.6. Test Band = LTE_Band=41 BW=20MHz ANT0 80
7.6.1. Test Channel = Mid Channel 80
7.7. Test Band = LTE_Band=38 BW=20MHz ANT2 81
7.7.1. Test Channel = Low Channel 81
7.8. Test Band = LTE_Band=38 BW=20MHz ANT2 82
7.8.1. Test Channel = Low Channel 82
7.9. Test Band = LTE_Band=38 BW=20MHz ANT2 83
7.9.1. Test Channel = Mid Channel 83
7.10. Test Band = LTE_Band=38 BW=20MHz ANT2 84
7.10.1. Test Channel = Mid Channel 84
7.11. Test Band = LTE_Band=38 BW=20MHz ANT2 85
7.11.1. Test Channel = High Channel 85
7.12. Test Band = LTE_Band=38 BW=20MHz ANT2 86
7.12.1. Test Channel = High Channel 86
7.13. Test Band = LTE_Band=38 BW=20MHz ANT3 87
7.13.1. Test Channel = Low Channel 87
7.14. Test Band = LTE_Band=38 BW=20MHz ANT3 88
7.14.1. Test Channel = Low Channel 88
7.15. Test Band = LTE_Band=38 BW=20MHz ANT3 89
7.15.1. Test Channel = Mid Channel 89
7.16. Test Band = LTE_Band=38 BW=20MHz ANT3 90
7.16.1. Test Channel = Mid Channel 90
7.17. Test Band = LTE_Band=38 BW=20MHz ANT3 91
7.17.1. Test Channel = High Channel 91
7.18. Test Band = LTE_Band=38 BW=20MHz ANT3 92
7.18.1. Test Channel = High Channel 92
7.19. Test Band = LTE_Band=38 BW=20MHz ANT4 93
7.19.1. Test Channel = Low Channel 93
7.20. Test Band = LTE_Band=38 BW=20MHz ANT4 94
7.20.1. Test Channel = Low Channel 94
7.21. Test Band = LTE_Band=38 BW=20MHz ANT4 95
7.21.1. Test Channel = Mid Channel 95
7.22. Test Band = LTE_Band=38 BW=20MHz ANT4 96
7.22.1. Test Channel = Mid Channel 96
7.23. Test Band = LTE_Band=38 BW=20MHz ANT4 97
7.23.1. Test Channel = High Channel 97
7.24. Test Band = LTE_Band=38 BW=20MHz ANT4 98
7.24.1. Test Channel = High Channel 98

8. FREQUENCY STABILITY99



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8.1. FREQUENCY VS VOLTAGE 99

8.2. FREQUENCY VS TEMPERATURE 100



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

ANT4:

| Band | Bandwidth | Modulation | Channel | RB Config. | Result (dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|--------|-----------|------------|---------|------------|--------------|------------|-------------|---------|
| Band38 | 5MHz | QPSK | 37775 | 1RB#0 | 23.10 | 23.00 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 37775 | 1RB#12 | 23.17 | 23.07 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 37775 | 1RB#24 | 23.06 | 22.96 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 37775 | 12RB#0 | 22.04 | 21.94 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 37775 | 12RB#6 | 22.00 | 21.90 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 37775 | 12RB#13 | 22.12 | 22.02 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 37775 | 25RB#0 | 22.16 | 22.06 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 1RB#0 | 22.99 | 22.89 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 1RB#12 | 23.00 | 22.90 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 1RB#24 | 23.15 | 23.05 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 12RB#0 | 22.01 | 21.91 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 12RB#6 | 22.04 | 21.94 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 12RB#13 | 22.05 | 21.95 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 25RB#0 | 21.96 | 21.86 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 1RB#0 | 23.14 | 23.04 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 1RB#12 | 23.16 | 23.06 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 1RB#24 | 23.15 | 23.05 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 12RB#0 | 21.99 | 21.89 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 12RB#6 | 22.10 | 22.00 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 12RB#13 | 22.06 | 21.96 | 33.00 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 25RB#0 | 22.01 | 21.91 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 1RB#0 | 21.97 | 21.87 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 1RB#12 | 21.99 | 21.89 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 1RB#24 | 22.16 | 22.06 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 12RB#0 | 21.07 | 20.97 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 12RB#6 | 21.11 | 21.01 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 12RB#13 | 20.98 | 20.88 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 25RB#0 | 21.15 | 21.05 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 1RB#0 | 21.99 | 21.89 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 1RB#12 | 22.12 | 22.02 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 1RB#24 | 21.93 | 21.83 | 33.00 | PASS |



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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band38 | 5MHz | 16QAM | 38000 | 12RB#0 | 21.02 | 20.92 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 12RB#6 | 21.16 | 21.06 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 12RB#13 | 20.99 | 20.89 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 25RB#0 | 21.11 | 21.01 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 1RB#0 | 22.02 | 21.92 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 1RB#12 | 22.01 | 21.91 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 1RB#24 | 22.05 | 21.95 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 12RB#0 | 21.19 | 21.09 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 12RB#6 | 21.10 | 21.00 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 12RB#13 | 21.07 | 20.97 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 25RB#0 | 21.14 | 21.04 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 37775 | 1RB#0 | 21.08 | 20.98 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 37775 | 1RB#12 | 21.14 | 21.04 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 37775 | 1RB#24 | 21.01 | 20.91 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 37775 | 12RB#0 | 20.01 | 19.91 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 37775 | 12RB#6 | 19.91 | 19.81 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 37775 | 12RB#13 | 20.04 | 19.94 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 37775 | 25RB#0 | 20.15 | 20.05 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 1RB#0 | 20.95 | 20.85 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 1RB#12 | 20.94 | 20.84 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 1RB#24 | 21.06 | 20.96 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 12RB#0 | 19.98 | 19.88 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 12RB#6 | 20.01 | 19.91 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 12RB#13 | 20.03 | 19.93 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 25RB#0 | 19.93 | 19.83 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 1RB#0 | 21.05 | 20.95 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 1RB#12 | 21.08 | 20.98 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 1RB#24 | 21.11 | 21.01 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 12RB#0 | 19.90 | 19.80 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 12RB#6 | 20.04 | 19.94 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 12RB#13 | 19.99 | 19.89 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 25RB#0 | 19.96 | 19.86 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 1RB#0 | 23.02 | 22.92 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 1RB#24 | 23.10 | 23.00 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 1RB#49 | 23.12 | 23.02 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 25RB#0 | 22.04 | 21.94 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 25RB#12 | 22.06 | 21.96 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 25RB#25 | 22.06 | 21.96 | 33.00 | PASS |



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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band38 | 10MHz | QPSK | 37800 | 50RB#0 | 22.09 | 21.99 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 1RB#0 | 23.08 | 22.98 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 1RB#24 | 23.09 | 22.99 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 1RB#49 | 23.06 | 22.96 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 25RB#0 | 22.03 | 21.93 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 25RB#12 | 22.03 | 21.93 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 25RB#25 | 22.02 | 21.92 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 50RB#0 | 22.03 | 21.93 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 1RB#0 | 23.04 | 22.94 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 1RB#24 | 23.08 | 22.98 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 1RB#49 | 23.08 | 22.98 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 25RB#0 | 22.08 | 21.98 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 25RB#12 | 22.05 | 21.95 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 25RB#25 | 22.05 | 21.95 | 33.00 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB#0 | 22.04 | 21.94 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 1RB#0 | 22.03 | 21.93 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 1RB#24 | 22.09 | 21.99 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 1RB#49 | 22.07 | 21.97 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 25RB#0 | 21.05 | 20.95 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 25RB#12 | 21.08 | 20.98 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 25RB#25 | 21.08 | 20.98 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 50RB#0 | 21.08 | 20.98 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#0 | 22.07 | 21.97 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#24 | 22.04 | 21.94 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#49 | 21.99 | 21.89 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 25RB#0 | 21.06 | 20.96 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 25RB#12 | 21.07 | 20.97 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 25RB#25 | 21.02 | 20.92 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 50RB#0 | 21.03 | 20.93 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#0 | 21.97 | 21.87 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#24 | 22.03 | 21.93 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#49 | 22.01 | 21.91 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 25RB#0 | 21.10 | 21.00 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 25RB#12 | 21.10 | 21.00 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 25RB#25 | 21.07 | 20.97 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 50RB#0 | 21.08 | 20.98 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 1RB#0 | 20.95 | 20.85 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 1RB#24 | 21.07 | 20.97 | 33.00 | PASS |



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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band38 | 10MHz | 64QAM | 37800 | 1RB#49 | 21.05 | 20.95 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 25RB#0 | 19.98 | 19.88 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 25RB#12 | 19.98 | 19.88 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 25RB#25 | 20.05 | 19.95 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 50RB#0 | 20.03 | 19.93 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 1RB#0 | 21.04 | 20.94 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 1RB#24 | 21.00 | 20.90 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 1RB#49 | 20.99 | 20.89 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 25RB#0 | 19.97 | 19.87 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 25RB#12 | 19.98 | 19.88 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 25RB#25 | 19.96 | 19.86 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 50RB#0 | 19.95 | 19.85 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 1RB#0 | 20.97 | 20.87 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 1RB#24 | 21.00 | 20.90 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 1RB#49 | 21.04 | 20.94 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 25RB#0 | 20.07 | 19.97 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 25RB#12 | 19.98 | 19.88 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 25RB#25 | 20.00 | 19.90 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 50RB#0 | 20.01 | 19.91 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 1RB#0 | 22.96 | 22.86 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 1RB#38 | 23.20 | 23.10 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 1RB#74 | 23.19 | 23.09 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 38RB#0 | 22.14 | 22.04 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 38RB#18 | 22.03 | 21.93 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 38RB#37 | 22.06 | 21.96 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 75RB#0 | 22.00 | 21.90 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 1RB#0 | 23.12 | 23.02 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 1RB#38 | 23.10 | 23.00 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 1RB#74 | 23.04 | 22.94 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 38RB#0 | 21.95 | 21.85 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 38RB#18 | 21.95 | 21.85 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 38RB#37 | 22.02 | 21.92 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 75RB#0 | 22.05 | 21.95 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 1RB#0 | 23.09 | 22.99 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 1RB#38 | 23.08 | 22.98 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 1RB#74 | 23.05 | 22.95 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 38RB#0 | 22.05 | 21.95 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 38RB#18 | 22.06 | 21.96 | 33.00 | PASS |



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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band38 | 15MHz | QPSK | 38175 | 38RB#37 | 21.99 | 21.89 | 33.00 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 75RB#0 | 21.94 | 21.84 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#0 | 21.94 | 21.84 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#38 | 21.99 | 21.89 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#74 | 22.15 | 22.05 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 38RB#0 | 21.10 | 21.00 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 38RB#18 | 21.13 | 21.03 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 38RB#37 | 21.18 | 21.08 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 75RB#0 | 21.04 | 20.94 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#0 | 22.00 | 21.90 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#38 | 22.12 | 22.02 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#74 | 21.91 | 21.81 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 38RB#0 | 21.04 | 20.94 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 38RB#18 | 20.98 | 20.88 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 38RB#37 | 20.95 | 20.85 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 75RB#0 | 21.11 | 21.01 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#0 | 22.07 | 21.97 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#38 | 22.09 | 21.99 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#74 | 21.92 | 21.82 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 38RB#0 | 21.16 | 21.06 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 38RB#18 | 21.11 | 21.01 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 38RB#37 | 21.15 | 21.05 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 75RB#0 | 20.99 | 20.89 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 1RB#0 | 20.88 | 20.78 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 1RB#38 | 21.19 | 21.09 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 1RB#74 | 21.17 | 21.07 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 38RB#0 | 20.11 | 20.01 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 38RB#18 | 20.01 | 19.91 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 38RB#37 | 20.03 | 19.93 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 75RB#0 | 19.94 | 19.84 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 1RB#0 | 21.05 | 20.95 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 1RB#38 | 21.06 | 20.96 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 1RB#74 | 20.95 | 20.85 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 38RB#0 | 19.92 | 19.82 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 38RB#18 | 19.91 | 19.81 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 38RB#37 | 19.97 | 19.87 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 75RB#0 | 20.04 | 19.94 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 1RB#0 | 21.01 | 20.91 | 33.00 | PASS |



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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band38 | 15MHz | 64QAM | 38175 | 1RB#38 | 21.03 | 20.93 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 1RB#74 | 21.03 | 20.93 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 38RB#0 | 20.02 | 19.92 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 38RB#18 | 20.03 | 19.93 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 38RB#37 | 19.92 | 19.82 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 75RB#0 | 19.92 | 19.82 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 1RB#0 | 23.00 | 22.90 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 1RB#49 | 23.02 | 22.92 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 1RB#99 | 23.13 | 23.03 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 50RB#0 | 22.13 | 22.03 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 50RB#25 | 22.15 | 22.05 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 50RB#50 | 22.04 | 21.94 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | 22.01 | 21.91 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 1RB#0 | 23.09 | 22.99 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 1RB#49 | 23.10 | 23.00 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 1RB#99 | 23.09 | 22.99 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 50RB#0 | 21.95 | 21.85 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 50RB#25 | 21.97 | 21.87 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 50RB#50 | 22.01 | 21.91 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | 22.03 | 21.93 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 1RB#0 | 22.97 | 22.87 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 1RB#49 | 23.15 | 23.05 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 1RB#99 | 23.17 | 23.07 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 50RB#0 | 22.16 | 22.06 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 50RB#25 | 22.13 | 22.03 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 50RB#50 | 22.13 | 22.03 | 33.00 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | 22.13 | 22.03 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#0 | 22.11 | 22.01 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#49 | 22.18 | 22.08 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#99 | 21.97 | 21.87 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 50RB#0 | 21.10 | 21.00 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 50RB#25 | 21.00 | 20.90 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 50RB#50 | 21.10 | 21.00 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | 21.04 | 20.94 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#0 | 22.03 | 21.93 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#49 | 21.97 | 21.87 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#99 | 21.90 | 21.80 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 50RB#0 | 21.10 | 21.00 | 33.00 | PASS |



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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band38 | 20MHz | 16QAM | 38000 | 50RB#25 | 21.16 | 21.06 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 50RB#50 | 21.06 | 20.96 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | 21.08 | 20.98 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#0 | 22.00 | 21.90 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#49 | 22.07 | 21.97 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#99 | 22.05 | 21.95 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 50RB#0 | 21.11 | 21.01 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 50RB#25 | 21.06 | 20.96 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 50RB#50 | 21.01 | 20.91 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | 21.11 | 21.01 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 1RB#0 | 20.97 | 20.87 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 1RB#49 | 20.93 | 20.83 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 1RB#99 | 21.10 | 21.00 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 50RB#0 | 20.10 | 20.00 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 50RB#25 | 20.13 | 20.03 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 50RB#50 | 19.95 | 19.85 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | 20.00 | 19.90 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 1RB#0 | 21.03 | 20.93 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 1RB#49 | 21.04 | 20.94 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 1RB#99 | 21.08 | 20.98 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 50RB#0 | 19.88 | 19.78 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 50RB#25 | 19.92 | 19.82 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 50RB#50 | 19.93 | 19.83 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | 19.97 | 19.87 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 1RB#0 | 20.89 | 20.79 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 1RB#49 | 21.13 | 21.03 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 1RB#99 | 21.14 | 21.04 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 50RB#0 | 20.14 | 20.04 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 50RB#25 | 20.05 | 19.95 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 50RB#50 | 20.04 | 19.94 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | 20.09 | 19.99 | 33.00 | PASS |

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$

The conducted Power is measured by Base Station Simulator



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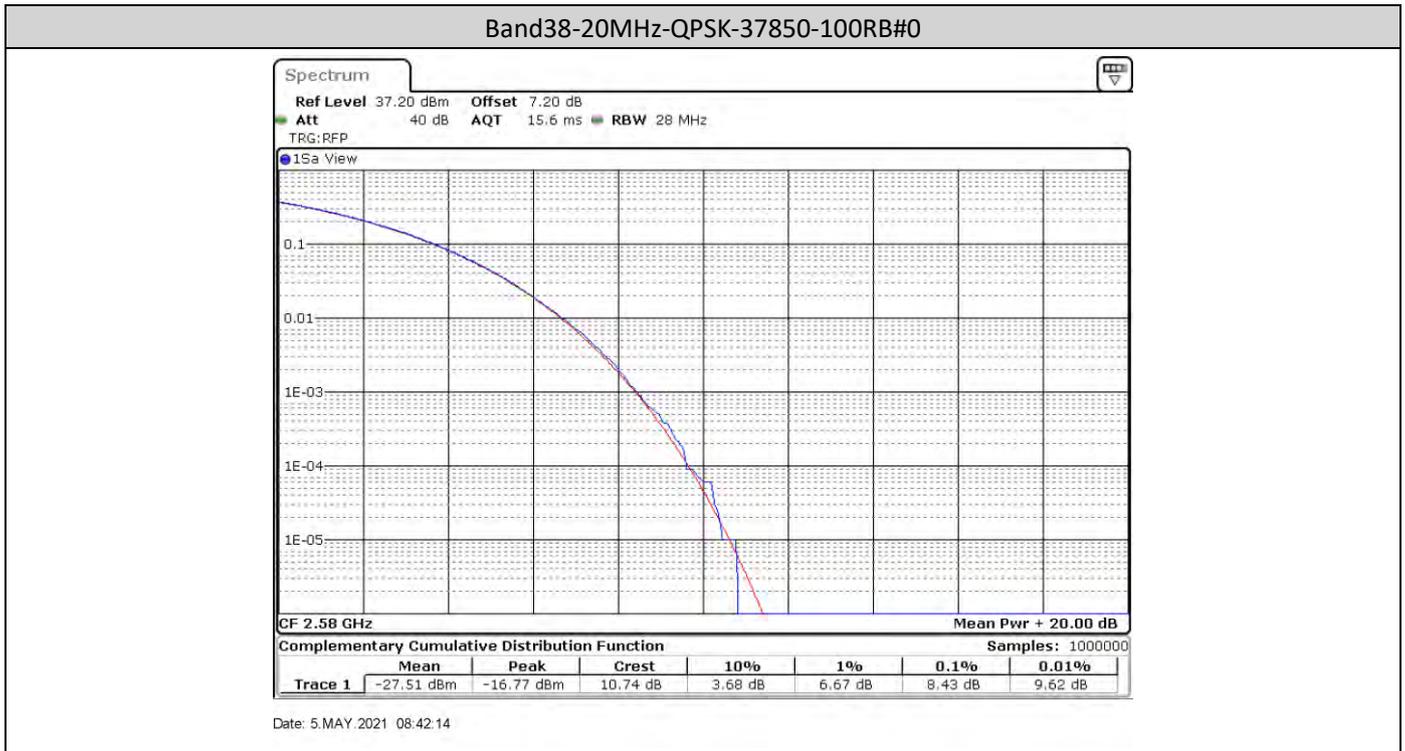


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

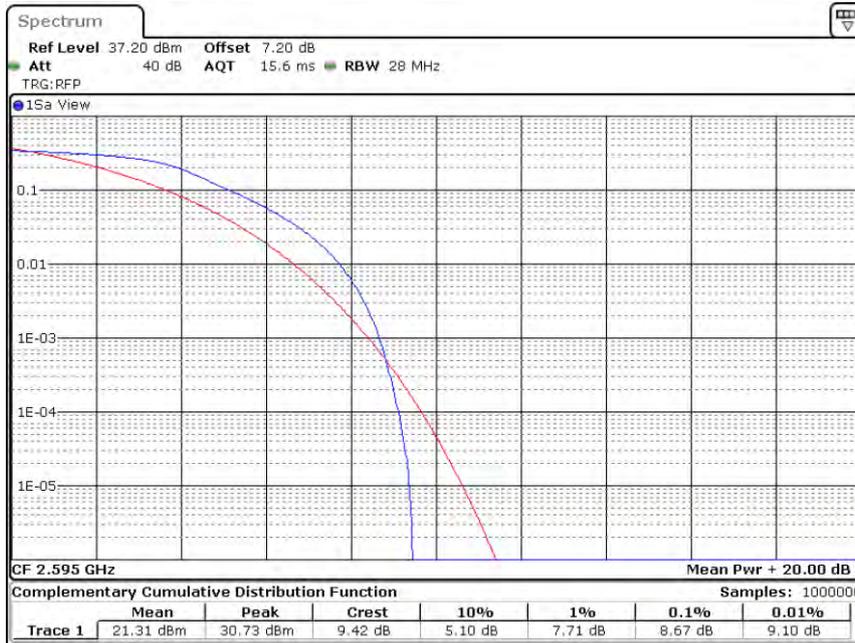
| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | 8.43 | 13 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | 8.67 | 13 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | 8.41 | 13 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | 8.12 | 13 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | 9.80 | 13 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | 9.68 | 13 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | 9.19 | 13 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | 9.19 | 13 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | 9.22 | 13 | PASS |

2.2. Test Plots



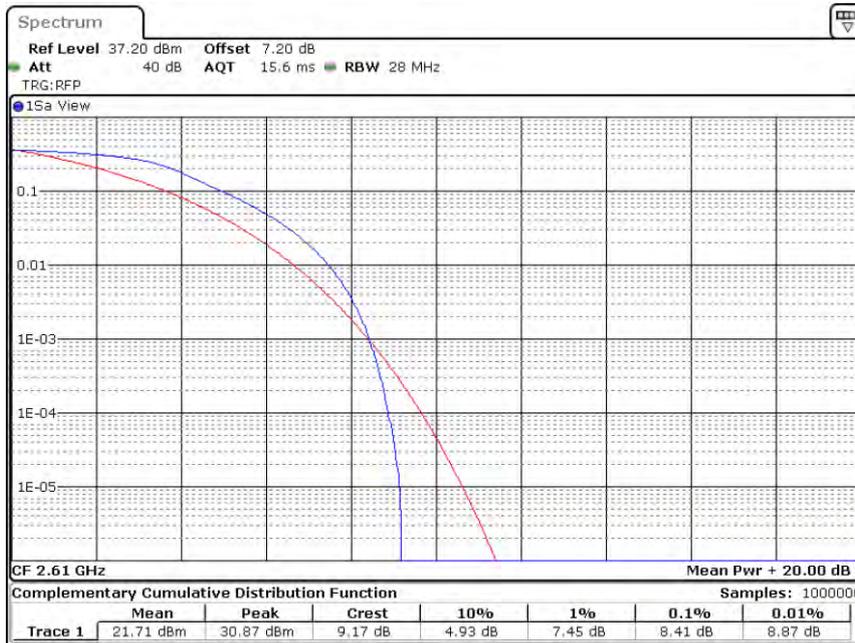
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Band38-20MHz-QPSK-38000-100RB#0



Date: 5.MAY 2021 08:42:37

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



Date: 5.MAY 2021 08:43:00



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



Date: 5.MAY 2021 09:30:11

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



Date: 5.MAY 2021 09:30:22



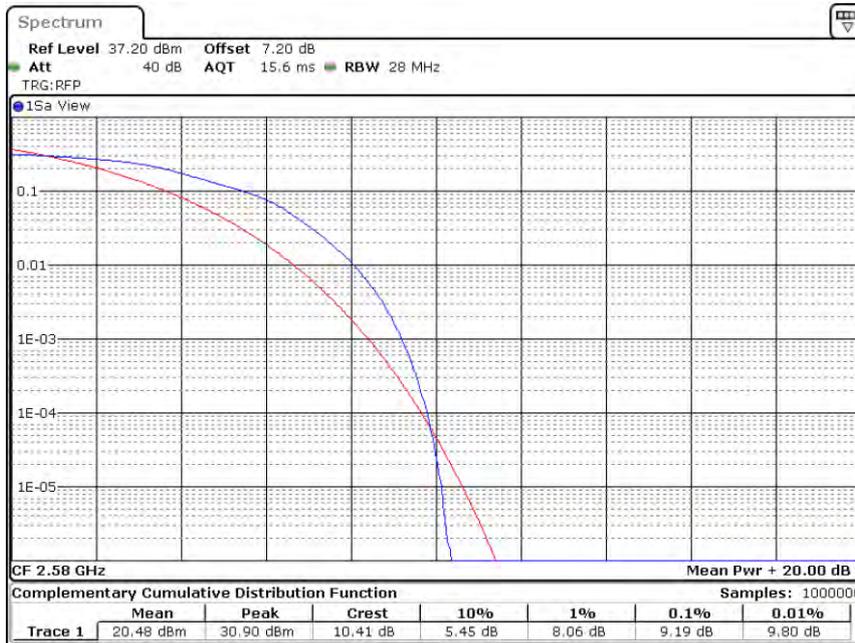
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Band38-20MHz-64QAM-38150-100RB#0



Date: 5.MAY 2021 09:30:34

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

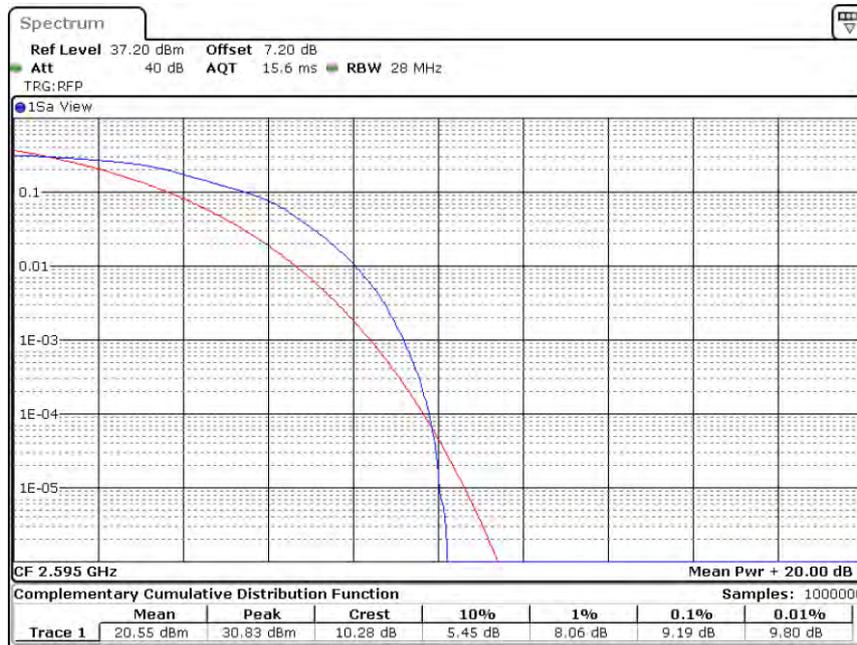


Date: 5.MAY 2021 08:42:26



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



Date: 5.MAY 2021 08:42:49

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



Date: 5.MAY 2021 08:43:12

Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.



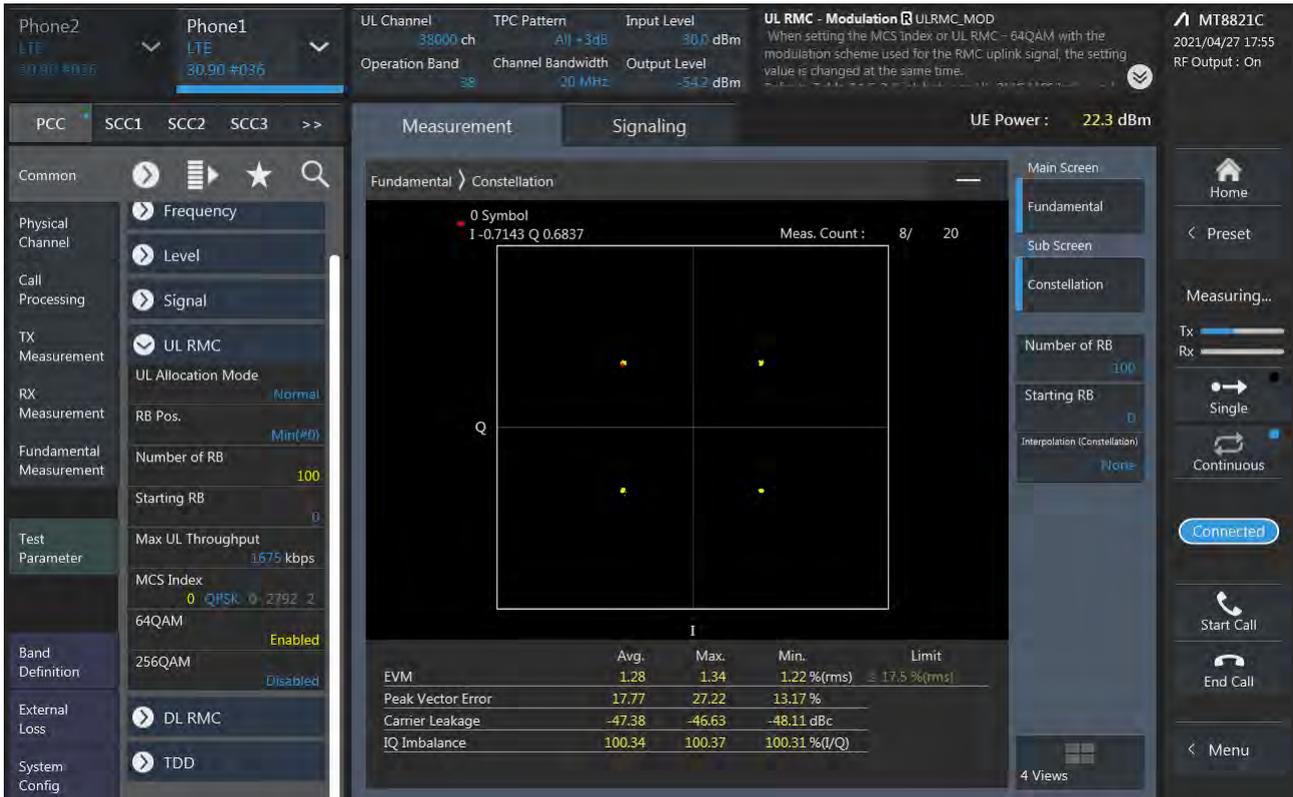
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



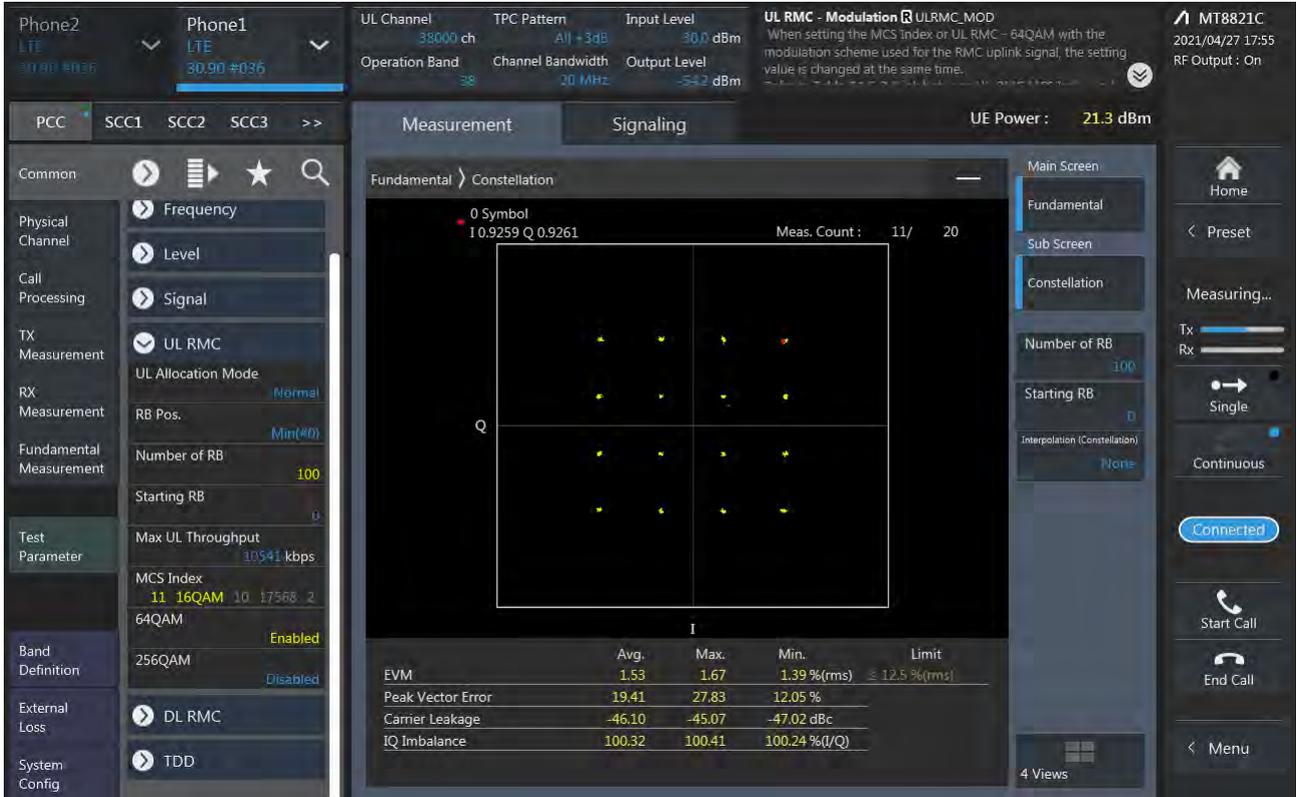
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3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH

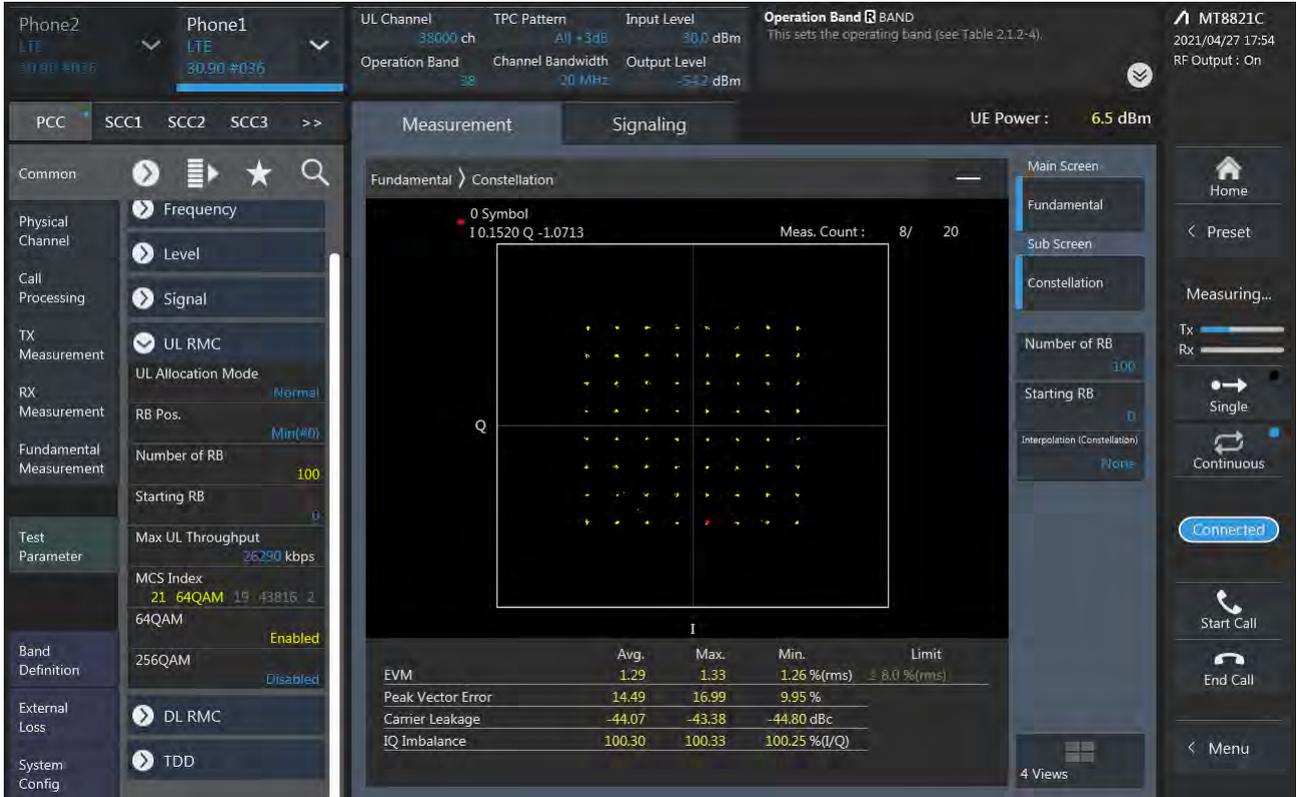


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3.3. Test Mode = LTE /TM3 20MHz

3.3.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band38 | 5MHz | QPSK | 3775 | 25RB#0 | 4.476 | 4.900 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 25RB#0 | 4.476 | 4.900 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 25RB#0 | 4.476 | 4.890 | PASS |
| Band38 | 5MHz | 64QAM | 3775 | 25RB#0 | 4.486 | 5.000 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 25RB#0 | 4.486 | 5.010 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 25RB#0 | 4.486 | 5.010 | PASS |
| Band38 | 5MHz | 16QAM | 3775 | 25RB#0 | 4.496 | 4.900 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 25RB#0 | 4.496 | 4.900 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 25RB#0 | 4.486 | 4.890 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 50RB#0 | 8.911 | 9.640 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 50RB#0 | 8.911 | 9.700 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB#0 | 8.911 | 9.700 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 50RB#0 | 8.931 | 10.140 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 50RB#0 | 8.951 | 10.060 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 50RB#0 | 8.951 | 10.260 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 50RB#0 | 8.931 | 9.760 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 50RB#0 | 8.931 | 9.820 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 50RB#0 | 8.931 | 9.780 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 75RB#0 | 13.516 | 15.630 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 75RB#0 | 13.516 | 15.690 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 75RB#0 | 13.516 | 16.170 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 75RB#0 | 13.487 | 15.270 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 75RB#0 | 13.457 | 14.910 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 75RB#0 | 13.457 | 14.850 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 75RB#0 | 13.487 | 15.300 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 75RB#0 | 13.457 | 15.450 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 75RB#0 | 13.457 | 15.840 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | 17.942 | 20.160 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | 17.902 | 19.960 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | 17.942 | 19.920 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | 17.902 | 19.280 | PASS |

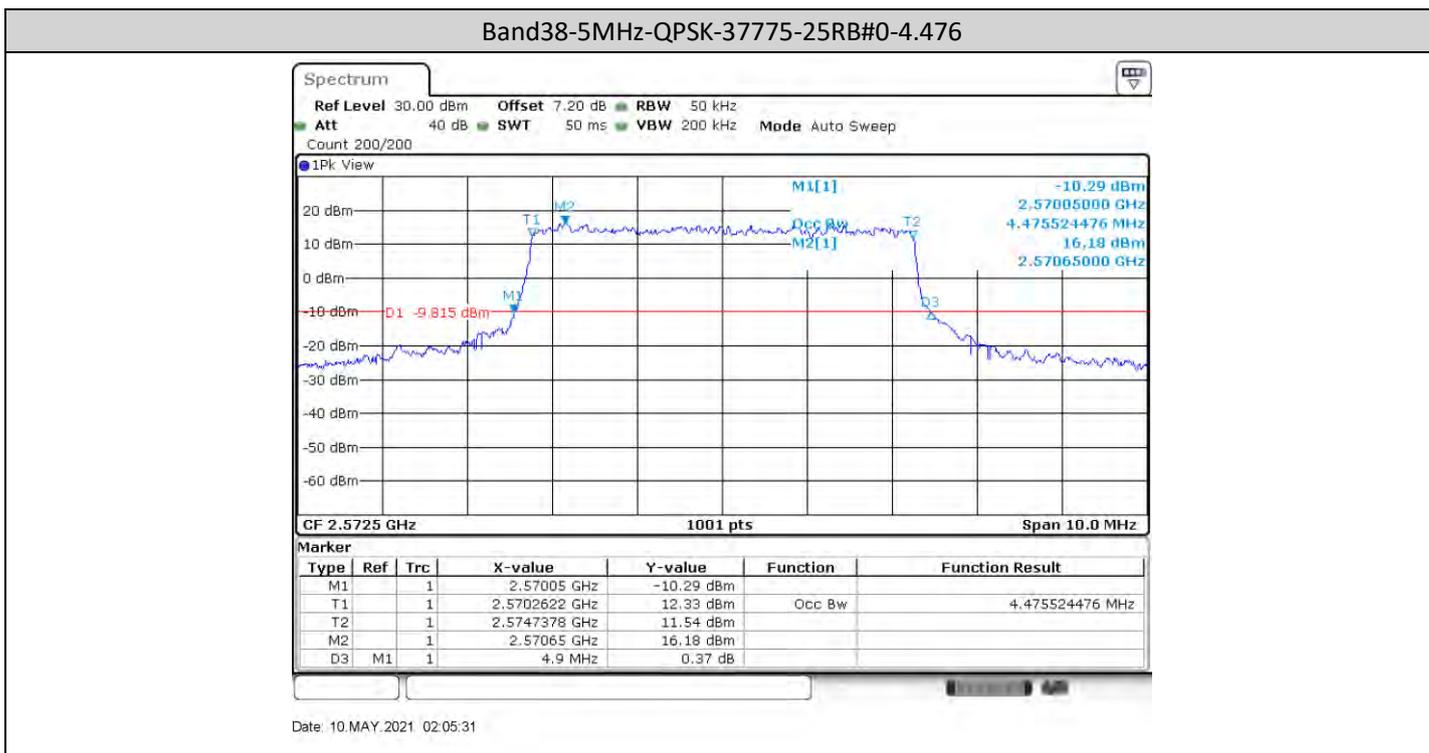


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| | | | | | | | |
|--------|-------|-------|-------|---------|--------|--------|------|
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | 17.902 | 19.280 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | 17.902 | 19.480 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | 17.862 | 19.280 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | 17.862 | 19.240 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | 17.902 | 19.320 | PASS |

4.2. Test Plots

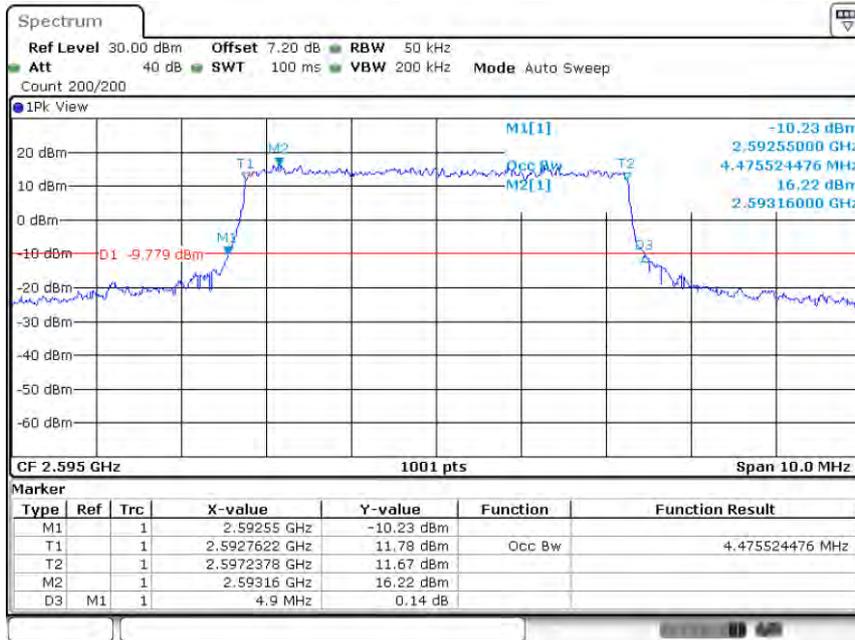


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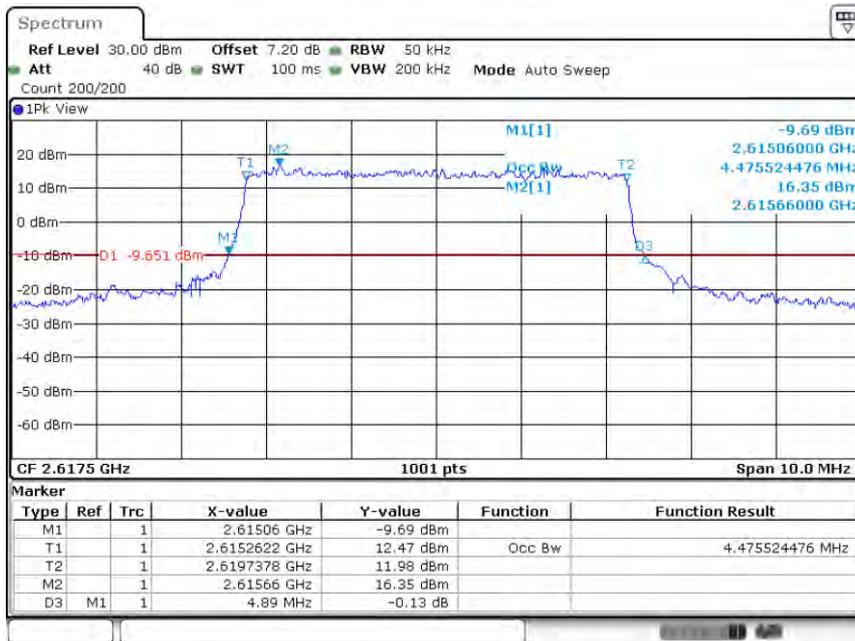


Band38-5MHz-QPSK-38000-25RB#0-4.476



Date: 10.MAY.2021 02:06:37

Band38-5MHz-QPSK-38225-25RB#0-4.476



Date: 10.MAY.2021 02:07:49



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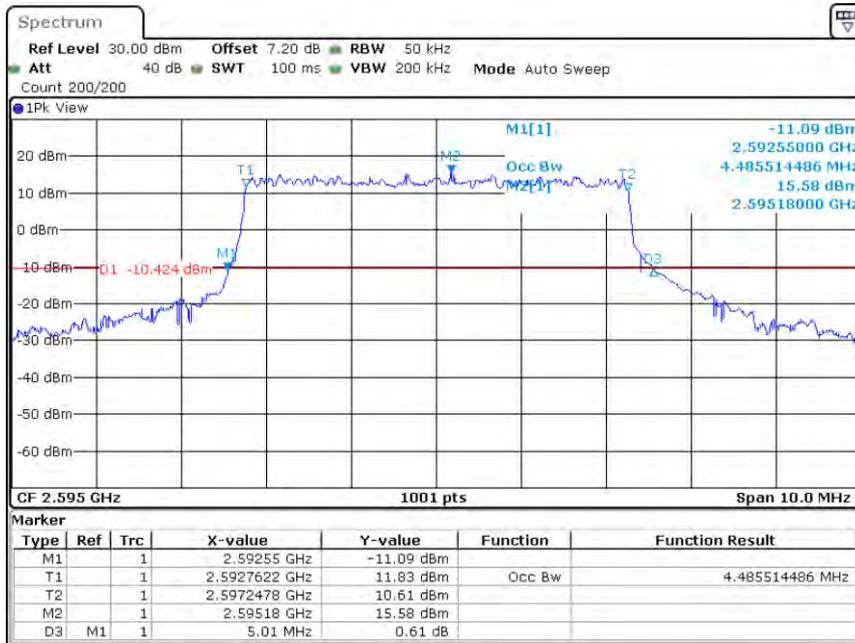


Band38-5MHz-64QAM-3775-25RB#0-4.486



Date: 5.MAY 2021 09:14:46

Band38-5MHz-64QAM-38000-25RB#0-4.486



Date: 5.MAY 2021 09:15:18



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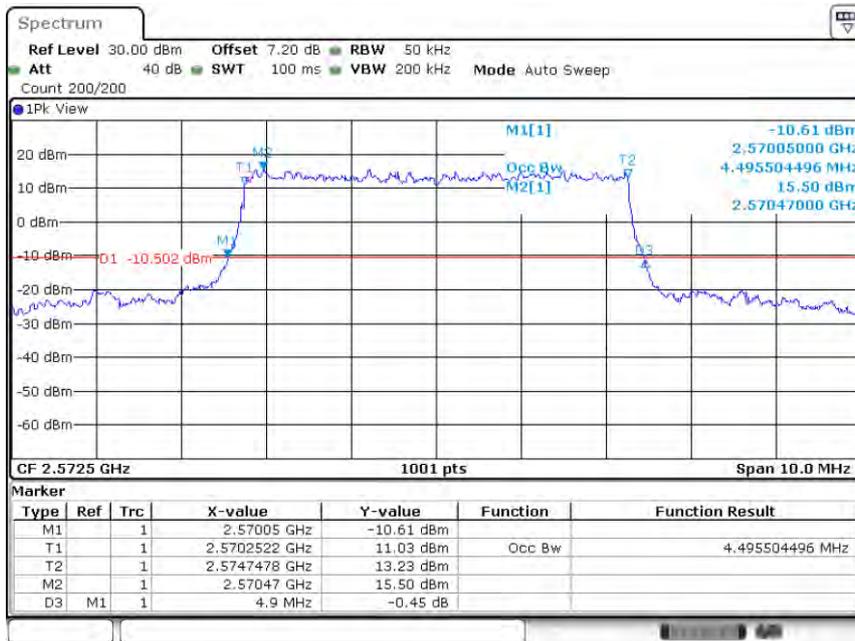


Band38-5MHz-64QAM-38225-25RB#0-4.486



Date: 5.MAY.2021 09:15:51

Band38-5MHz-16QAM-37775-25RB#0-4.496

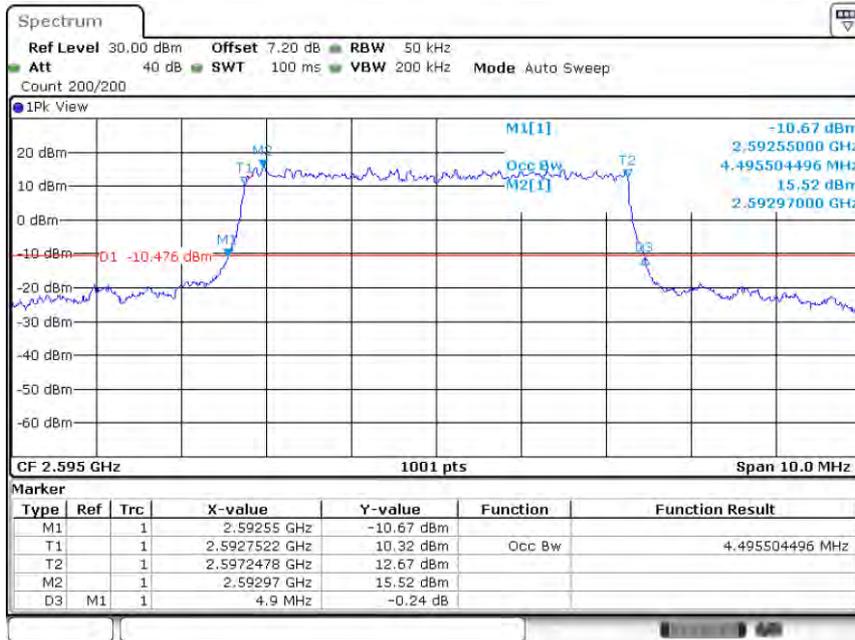


Date: 10.MAY.2021 02:06:04



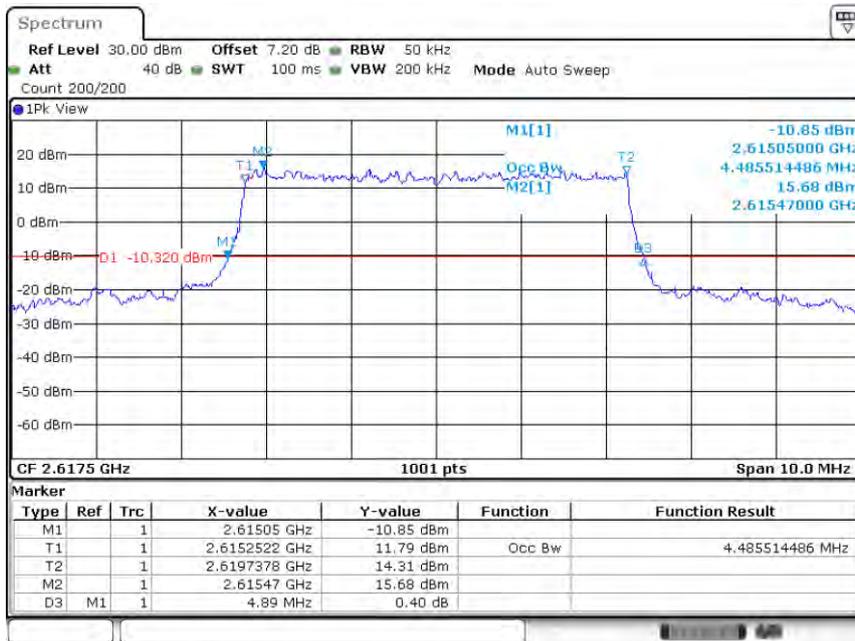
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Band38-5MHz-16QAM-38000-25RB#0-4.496



Date: 10.MAY.2021 02:07:10

Band38-5MHz-16QAM-38225-25RB#0-4.486



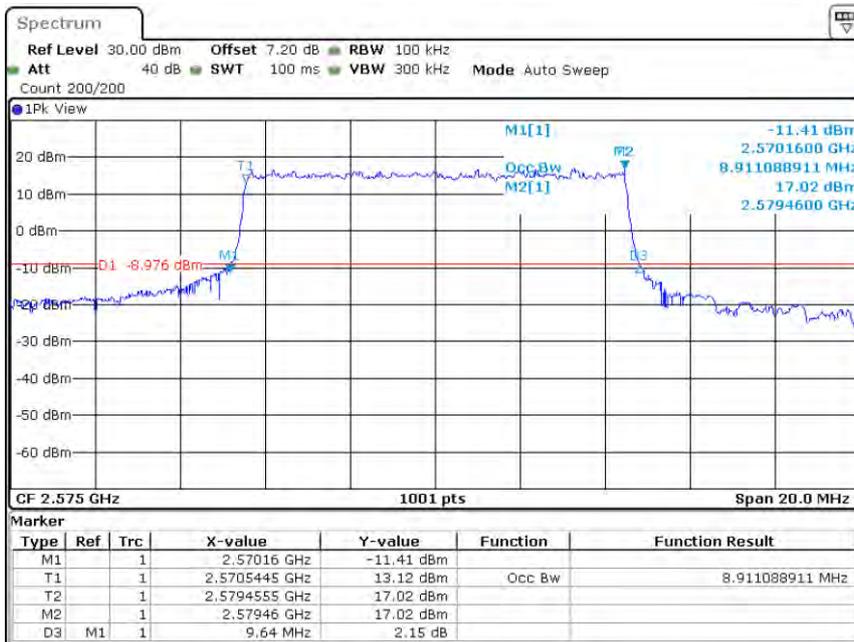
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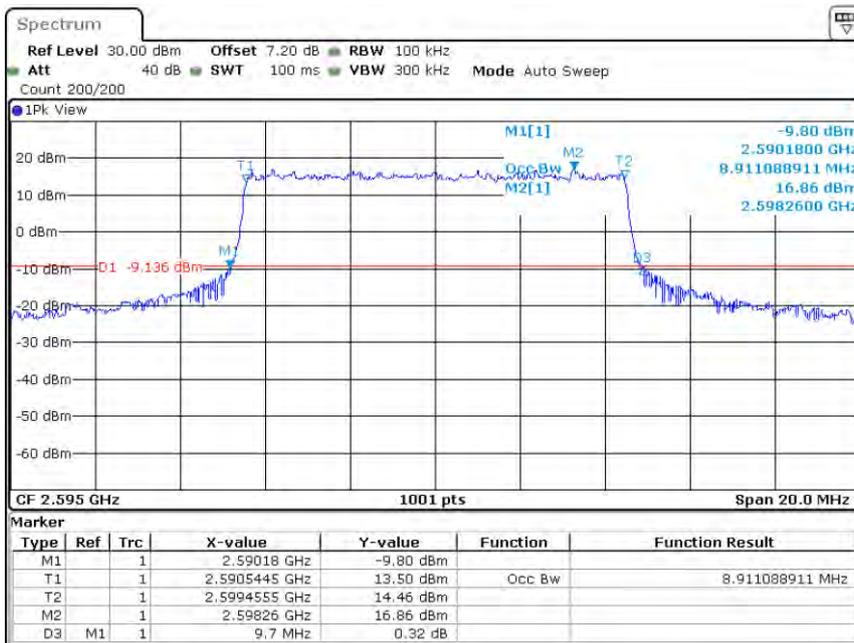


Band38-10MHz-QPSK-37800-50RB#0-8.911



Date: 4.MAY 2021 08:47:40

Band38-10MHz-QPSK-38000-50RB#0-8.911

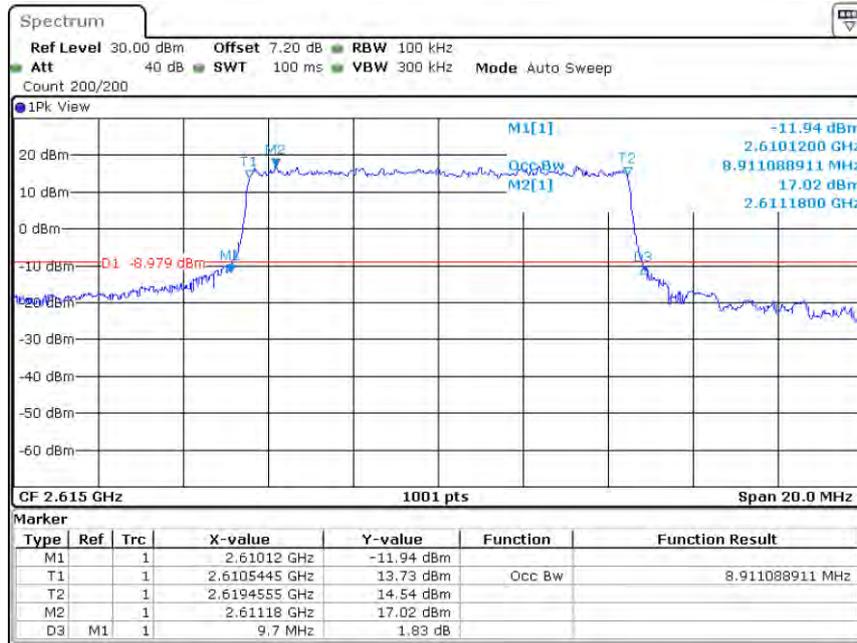


Date: 4.MAY 2021 08:48:45



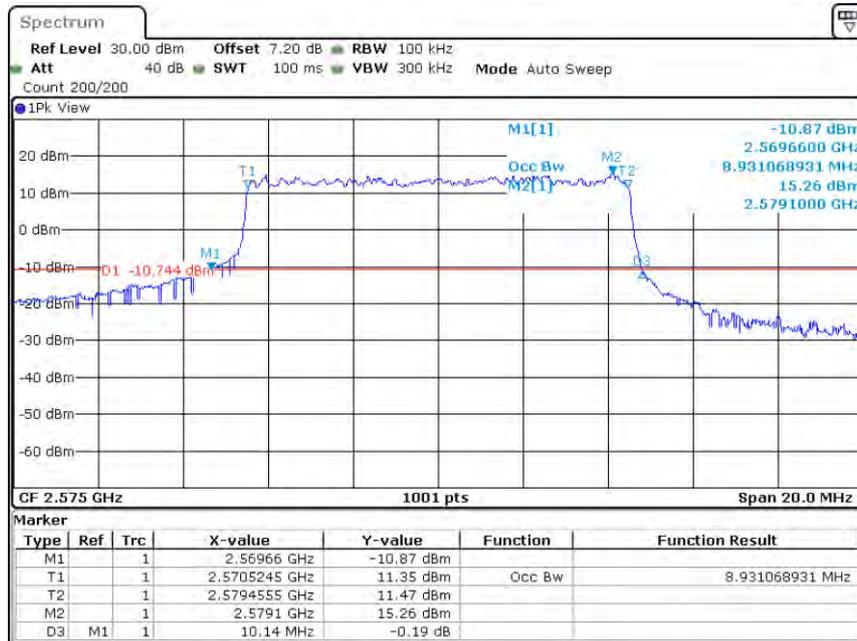
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Band38-10MHz-QPSK-38200-50RB#0-8.911



Date: 4.MAY 2021 08:49:50

Band38-10MHz-64QAM-37800-50RB#0-8.931



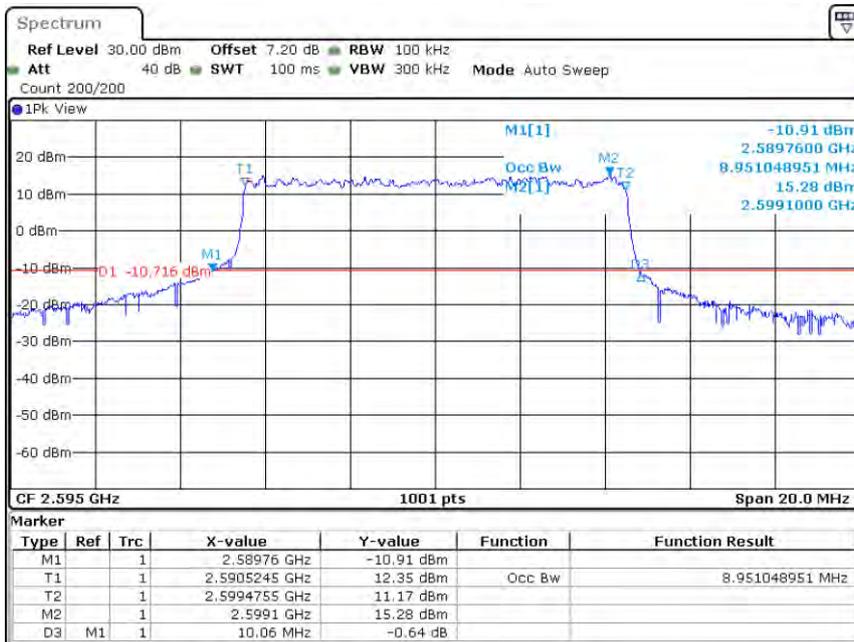
Date: 5.MAY 2021 09:16:31



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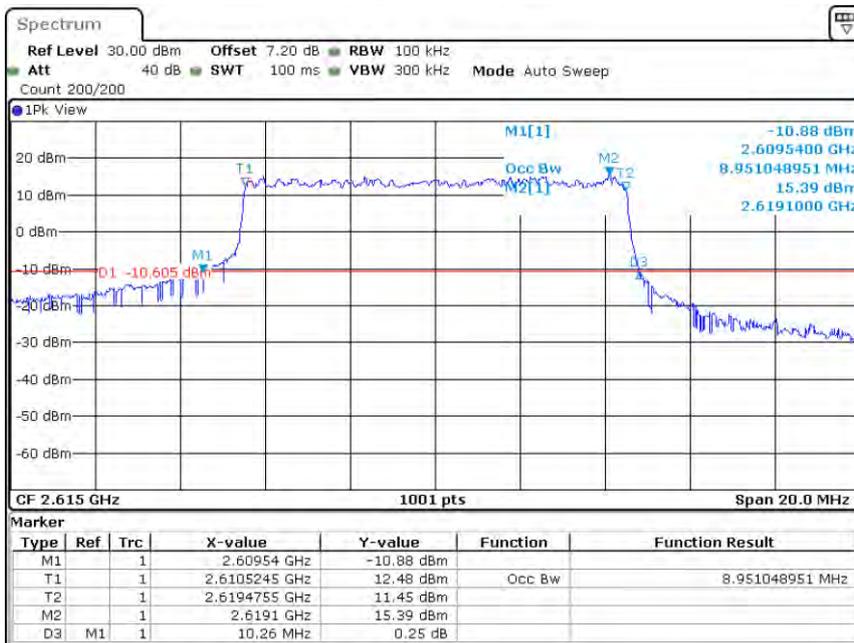


Band38-10MHz-64QAM-38000-50RB#0-8.951



Date: 5.MAY 2021 09:17:04

Band38-10MHz-64QAM-38200-50RB#0-8.951

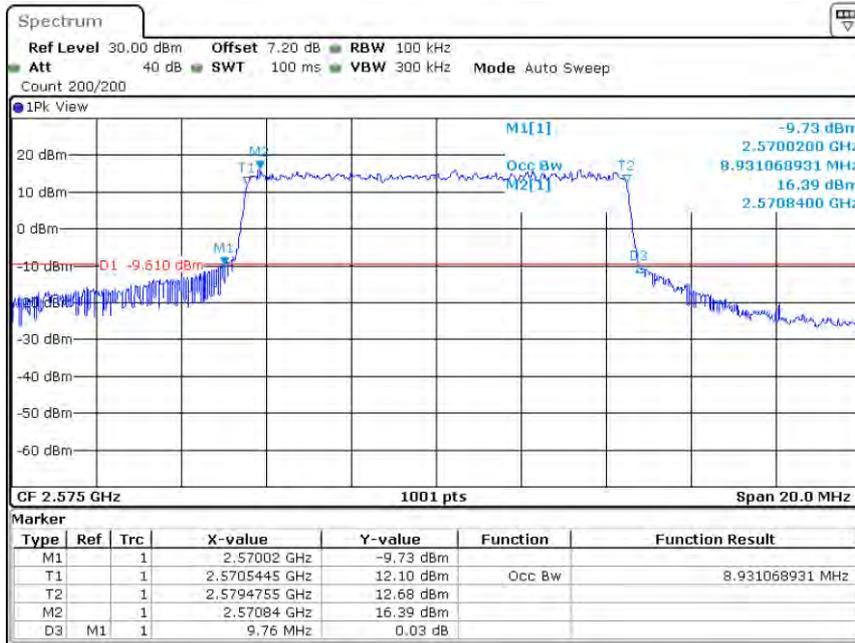


Date: 5.MAY 2021 09:17:37



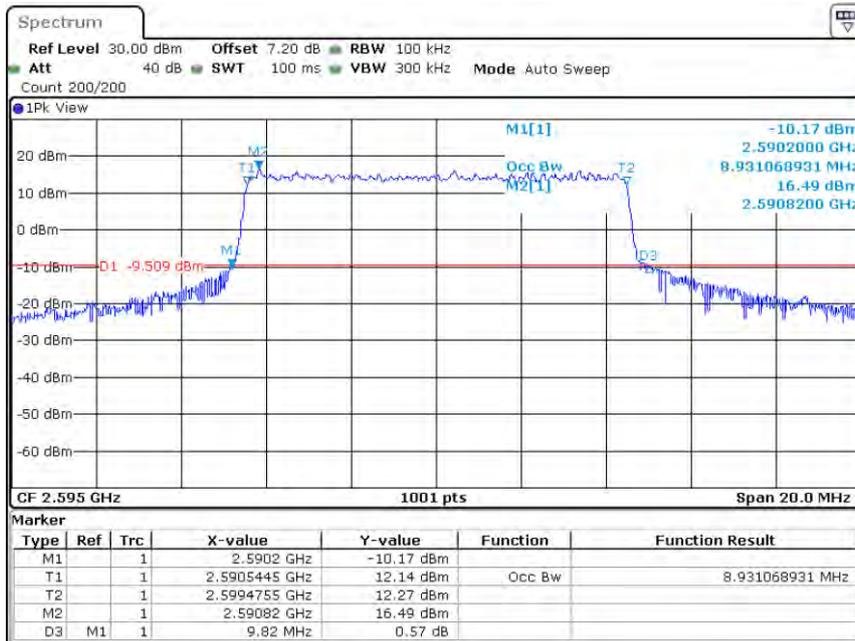
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Band38-10MHz-16QAM-37800-50RB#0-8.931



Date: 4.MAY 2021 08:48:12

Band38-10MHz-16QAM-38000-50RB#0-8.931

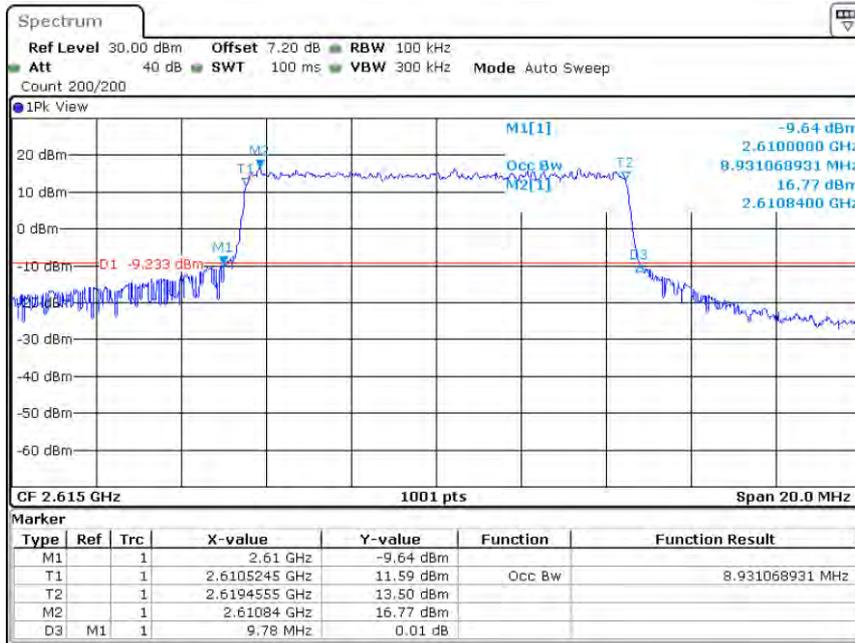


Date: 4.MAY 2021 08:49:17



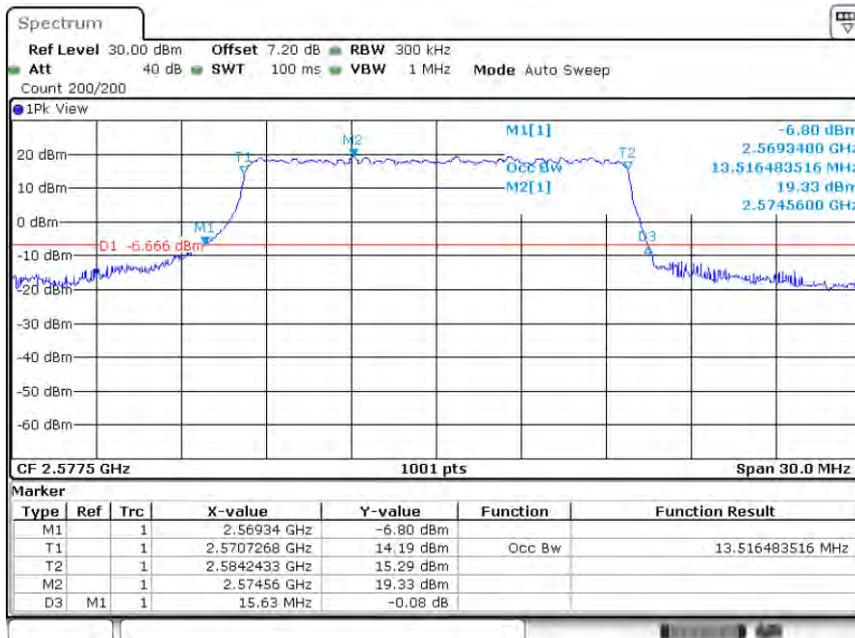
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Band38-10MHz-16QAM-38200-50RB#0-8.931



Date: 4.MAY.2021 08:50:23

Band38-15MHz-QPSK-37825-75RB#0-13.516

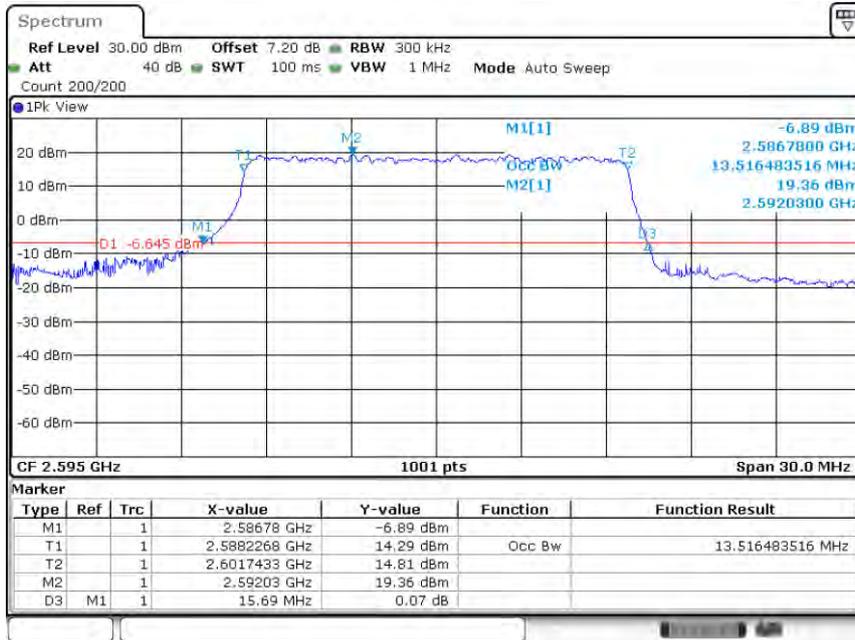


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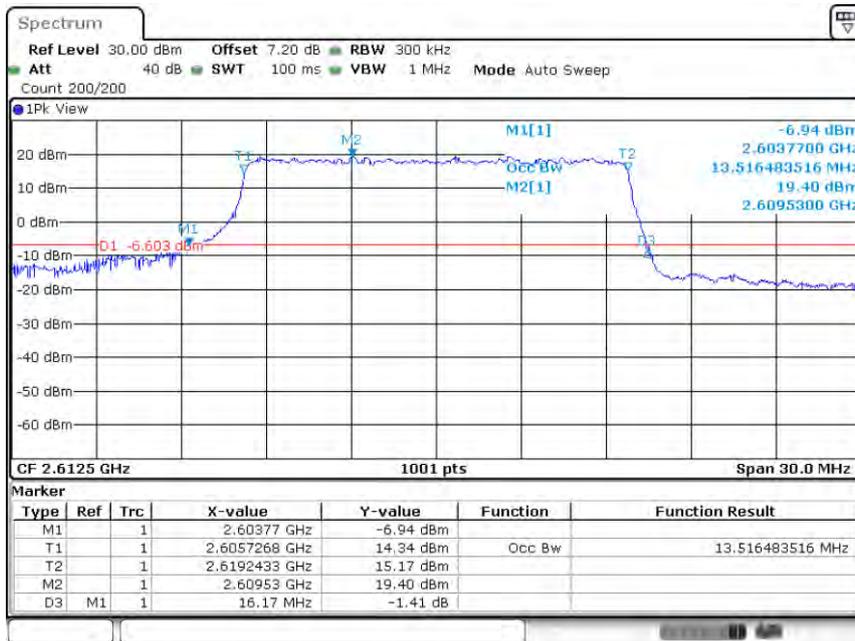


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Band38-15MHz-QPSK-38000-75RB#0-13.516



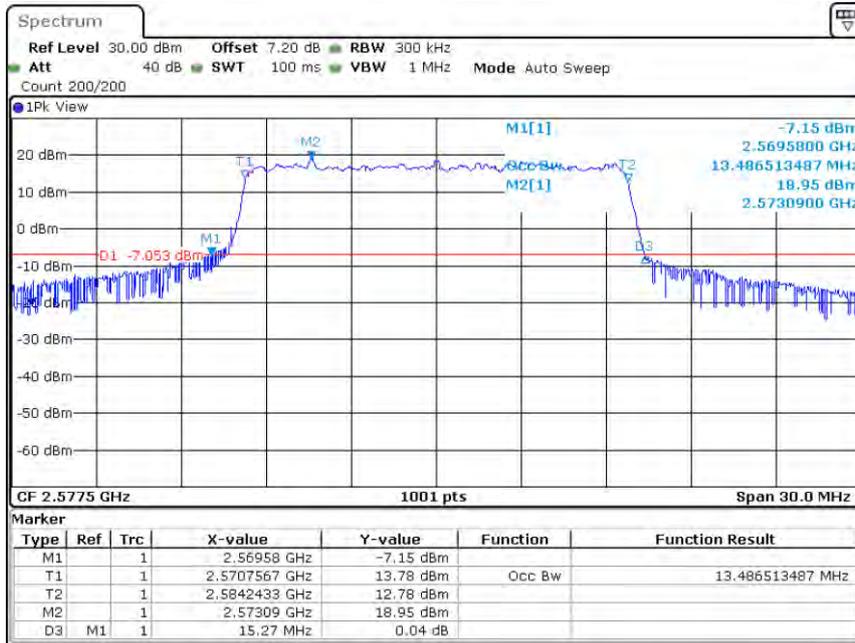
Band38-15MHz-QPSK-38175-75RB#0-13.516



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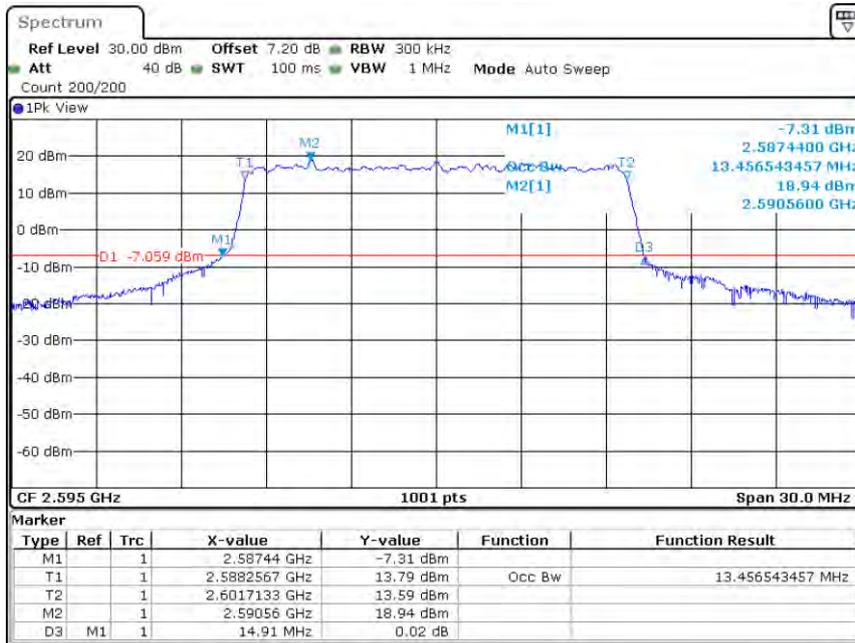
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Band38-15MHz-64QAM-37825-75RB#0-13.487



Date: 5.MAY 2021 09:18:16

Band38-15MHz-64QAM-38000-75RB#0-13.457



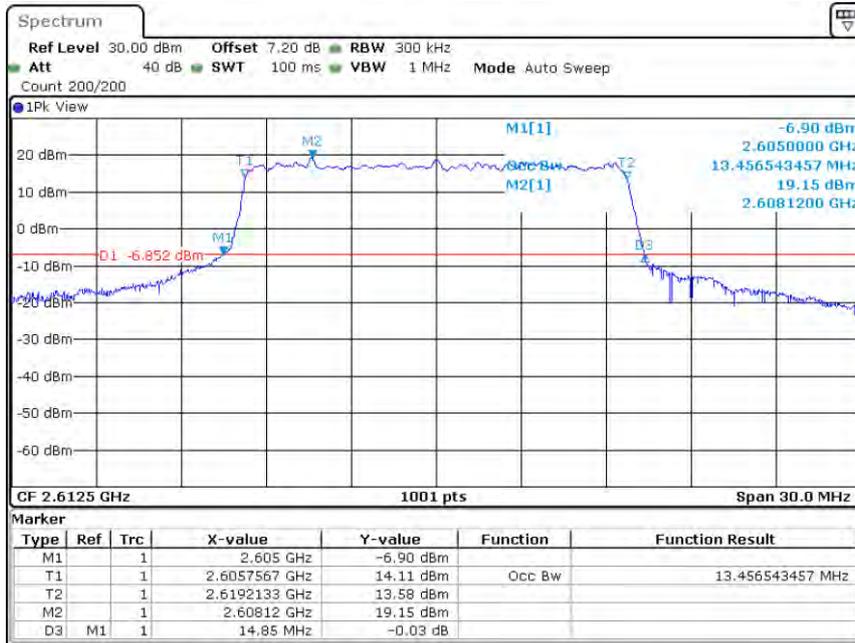
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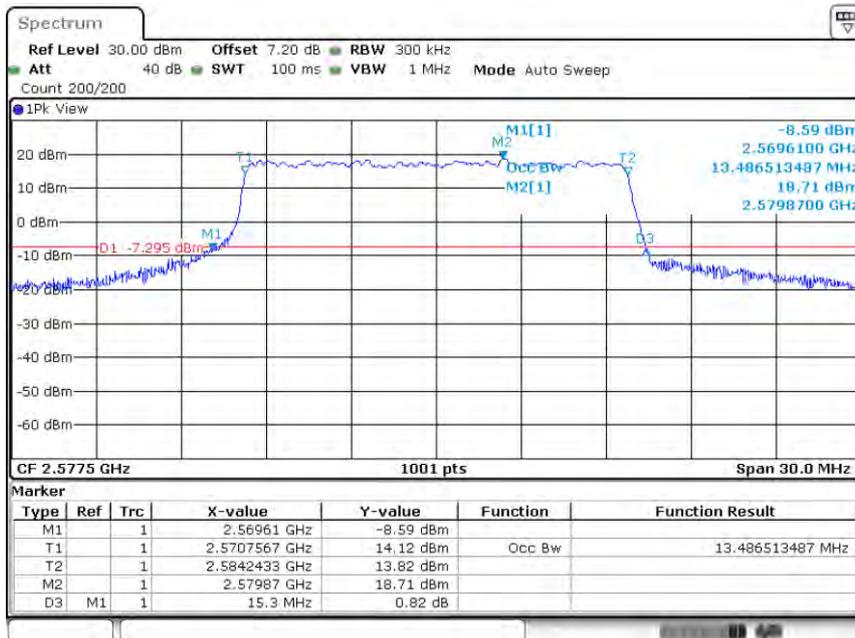
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Band38-15MHz-64QAM-38175-75RB#0-13.457



Date: 5.MAY.2021 09:19:22

Band38-15MHz-16QAM-37825-75RB#0-13.487

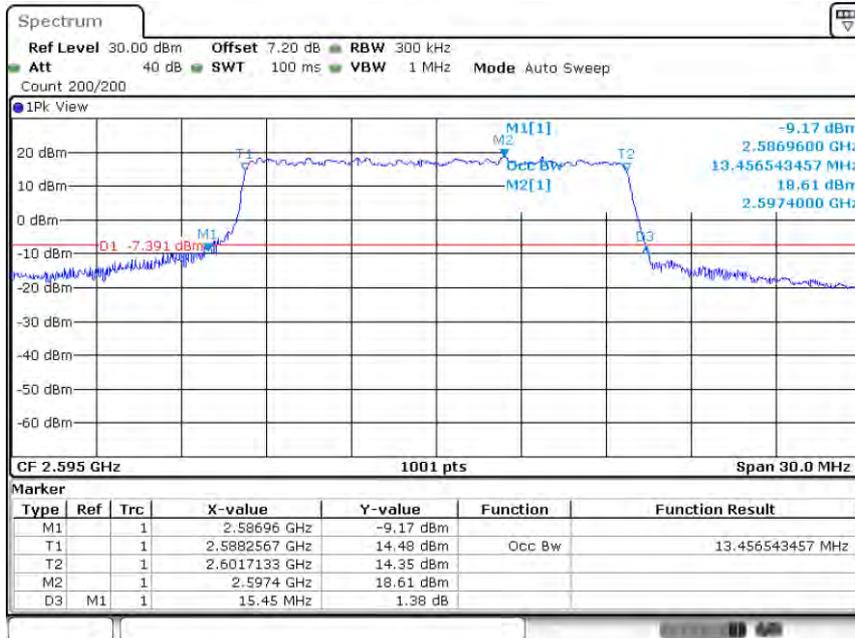


Date: 10.MAY.2021 02:16:33



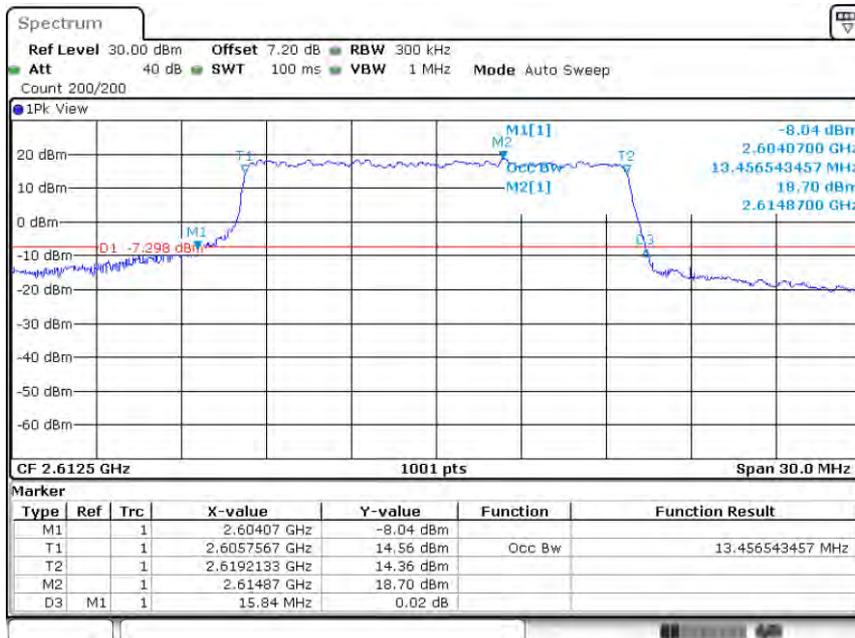
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Band38-15MHz-16QAM-38000-75RB#0-13.457



Date: 10.MAY.2021 02:18:14

Band38-15MHz-16QAM-38175-75RB#0-13.457



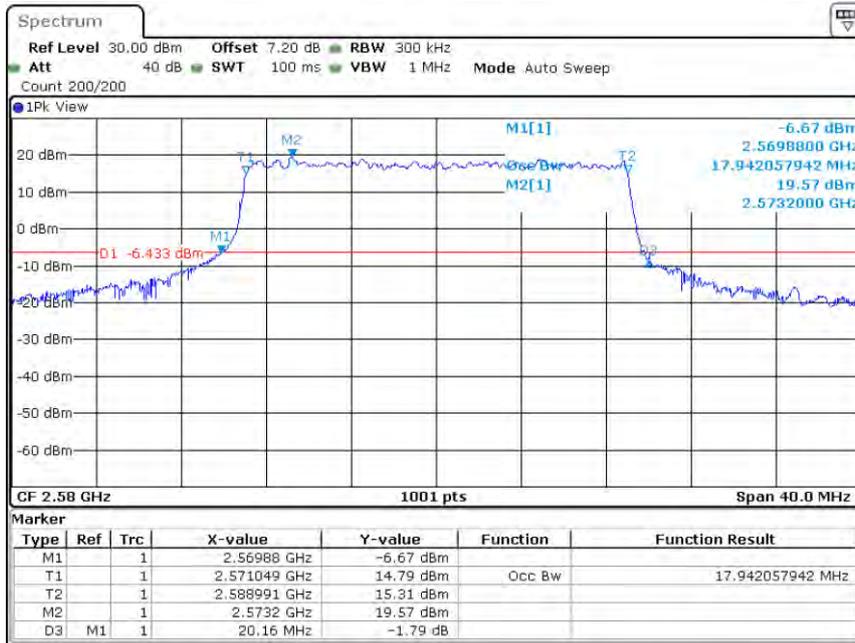
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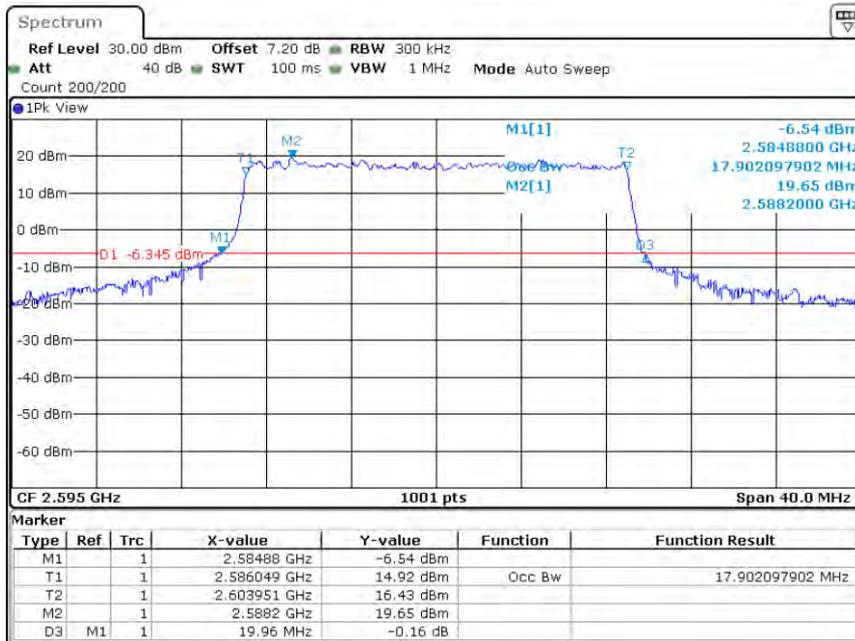


Band38-20MHz-QPSK-37850-100RB#0-17.942



Date: 4.MAY 2021 08:54:23

Band38-20MHz-QPSK-38000-100RB#0-17.902



Date: 4.MAY 2021 08:55:33



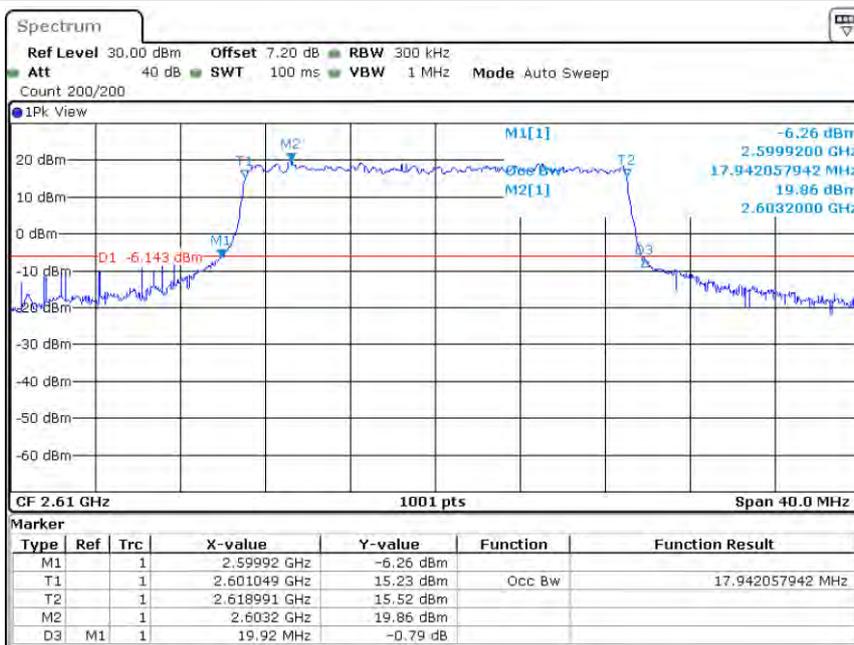
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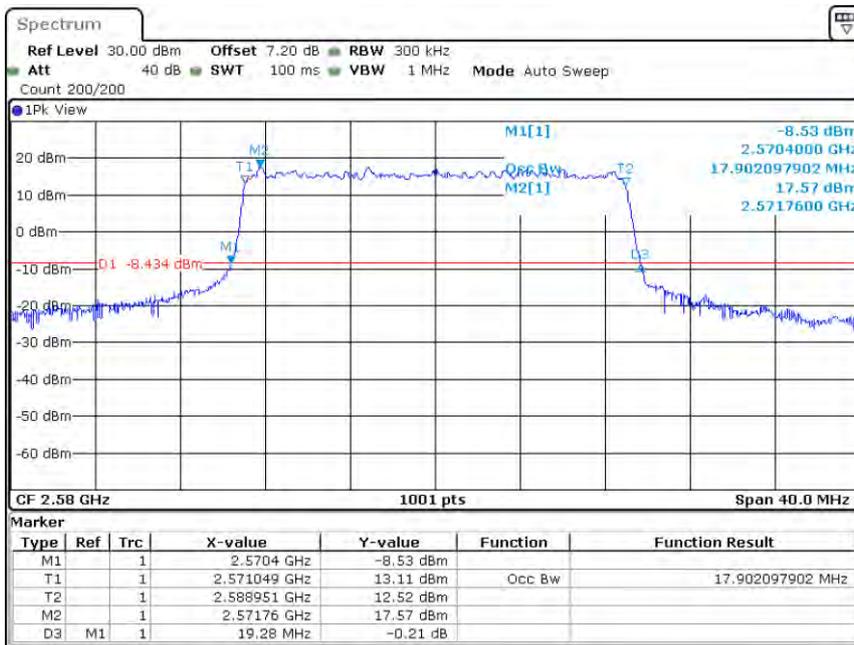
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Band38-20MHz-QPSK-38150-100RB#0-17.942



Band38-20MHz-64QAM-37850-100RB#0-17.902

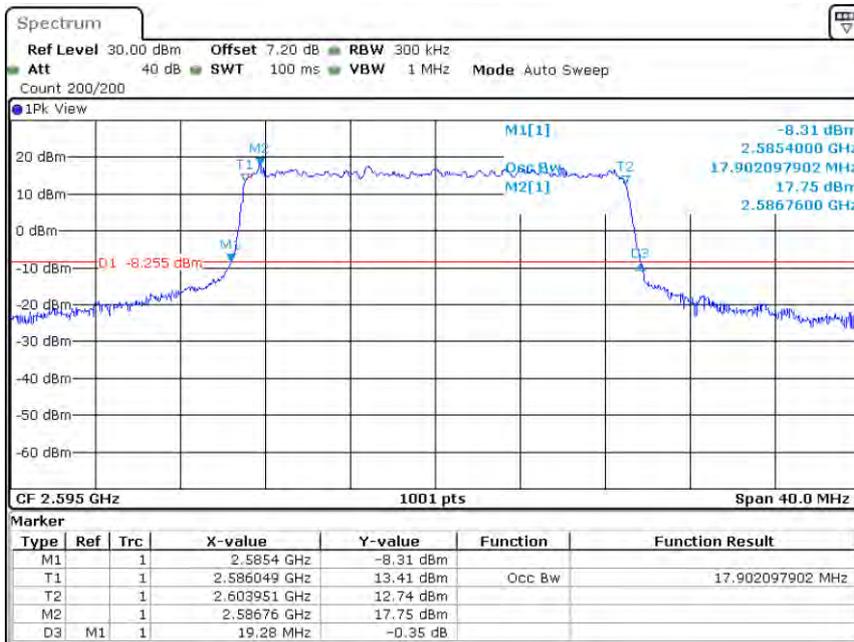


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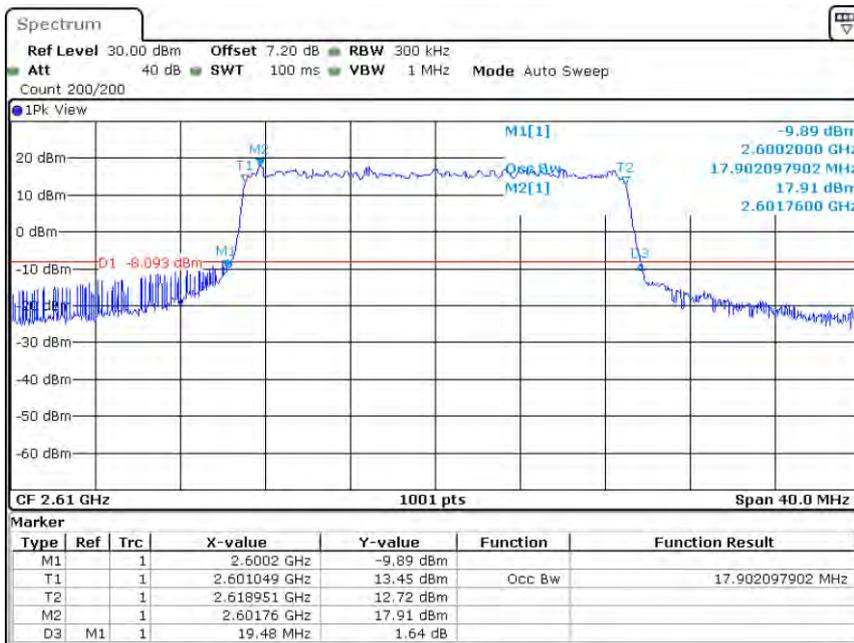


Band38-20MHz-64QAM-38000-100RB#0-17.902



Date: 5.MAY 2021 09:20:34

Band38-20MHz-64QAM-38150-100RB#0-17.902



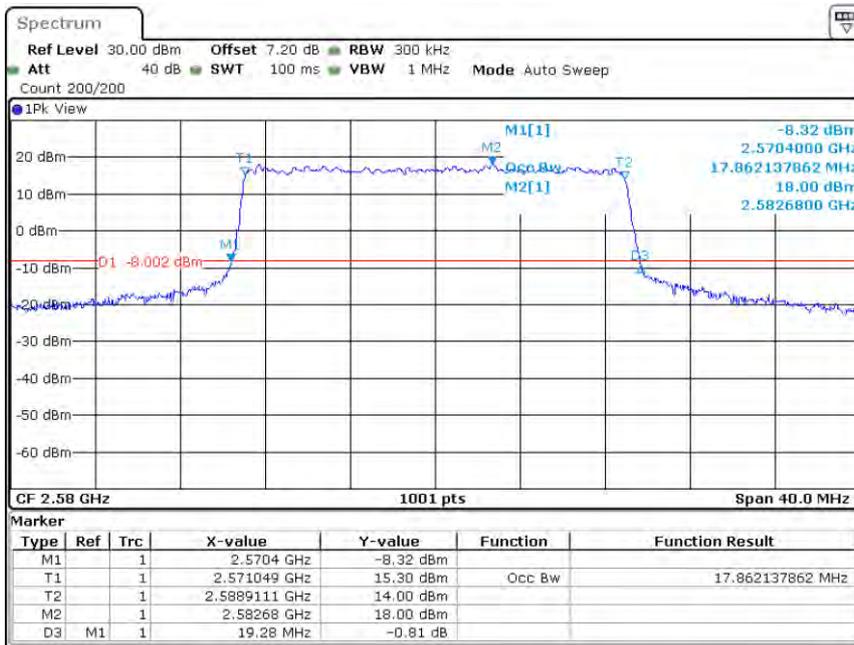
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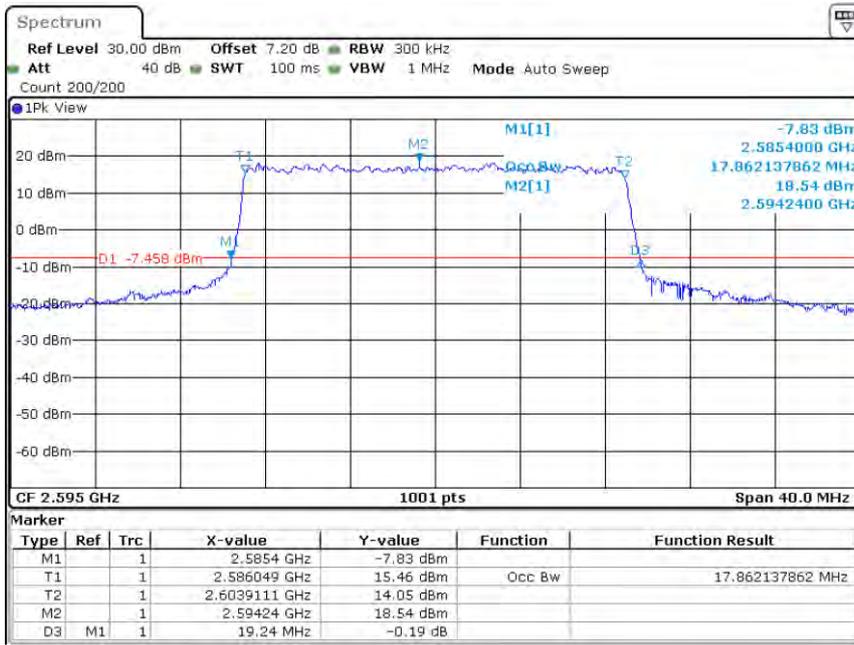
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Band38-20MHz-16QAM-37850-100RB#0-17.862



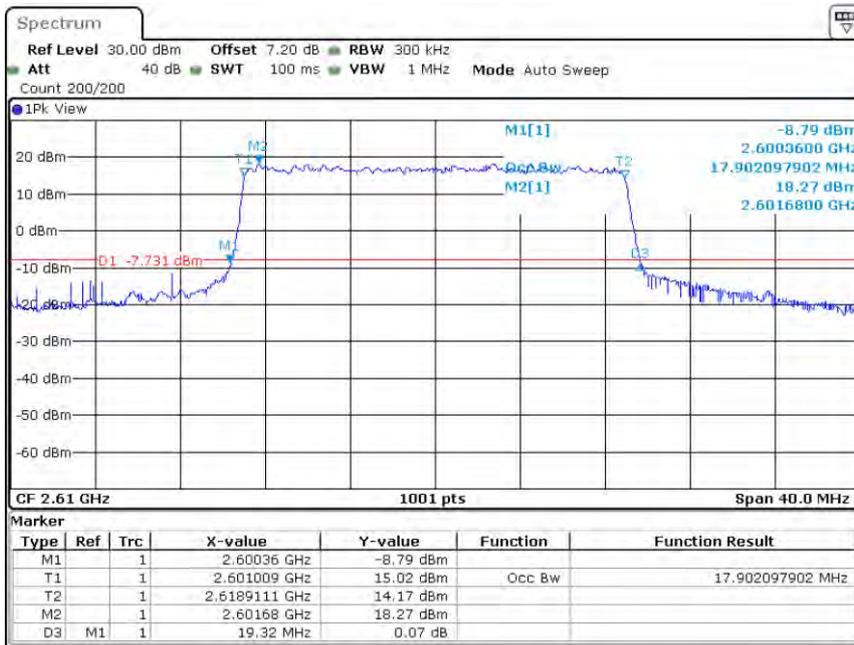
Band38-20MHz-16QAM-38000-100RB#0-17.862



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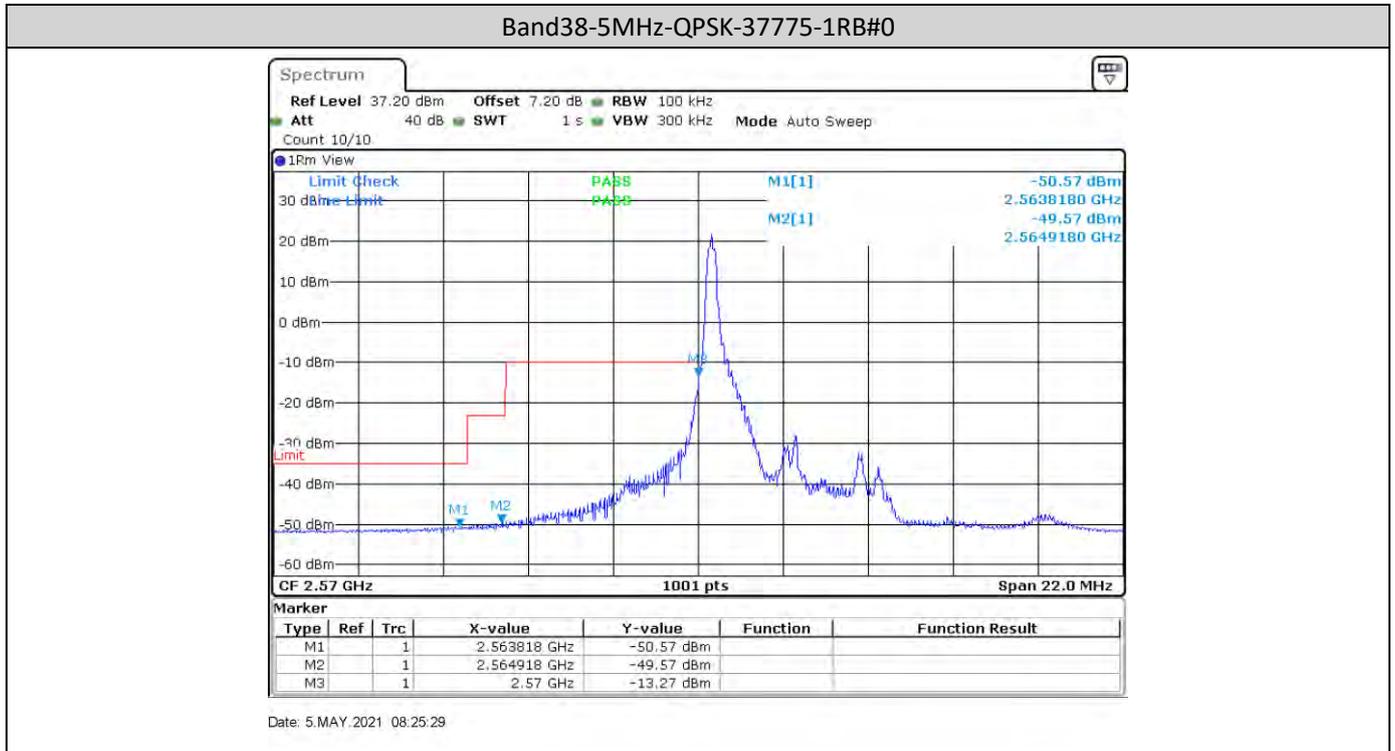
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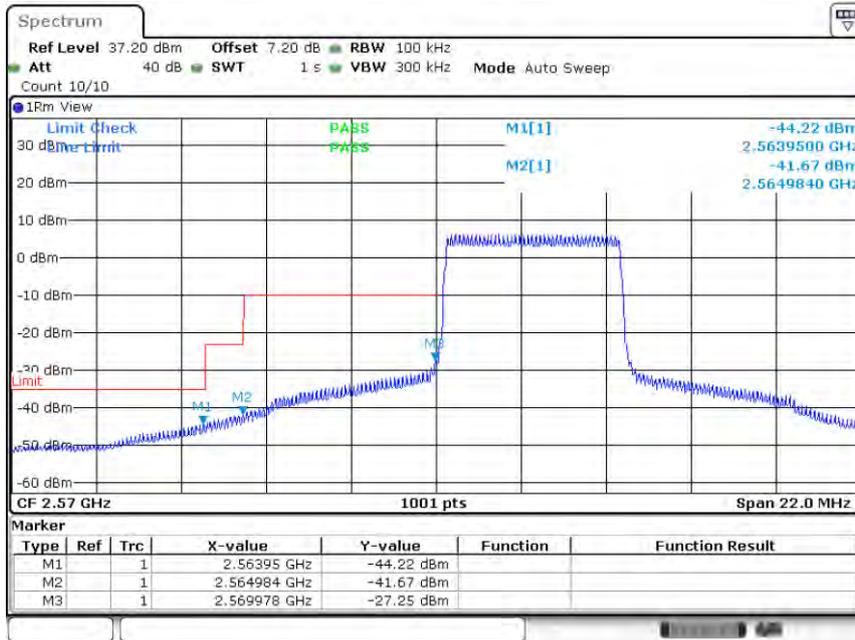
5. Band Edge Compliance

5.1. Test Plots



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Band38-5MHz-QPSK-37775-25RB#0



Date: 10.MAY.2021 02:21:41

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

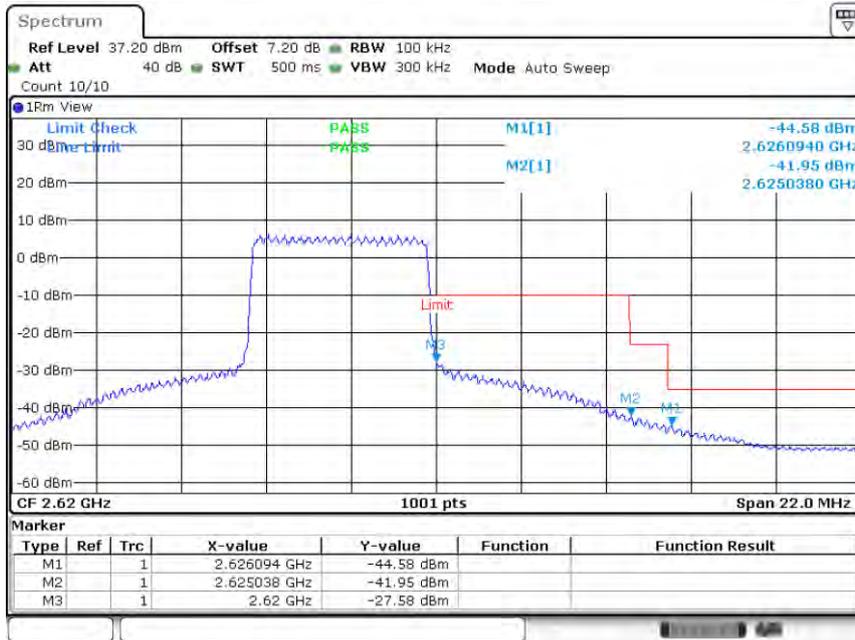


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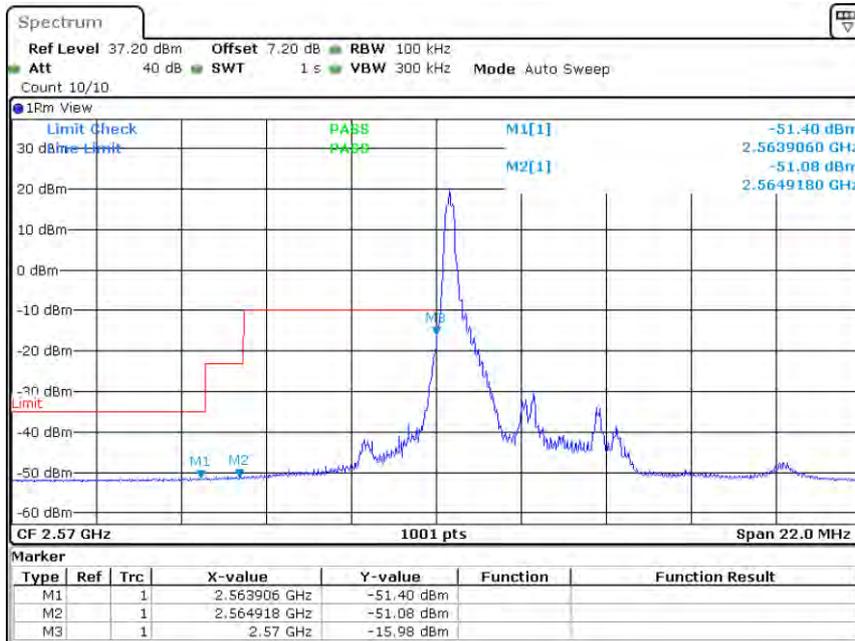
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Band38-5MHz-QPSK-38225-25RB#0



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Band38-5MHz-64QAM-37775-1RB#0



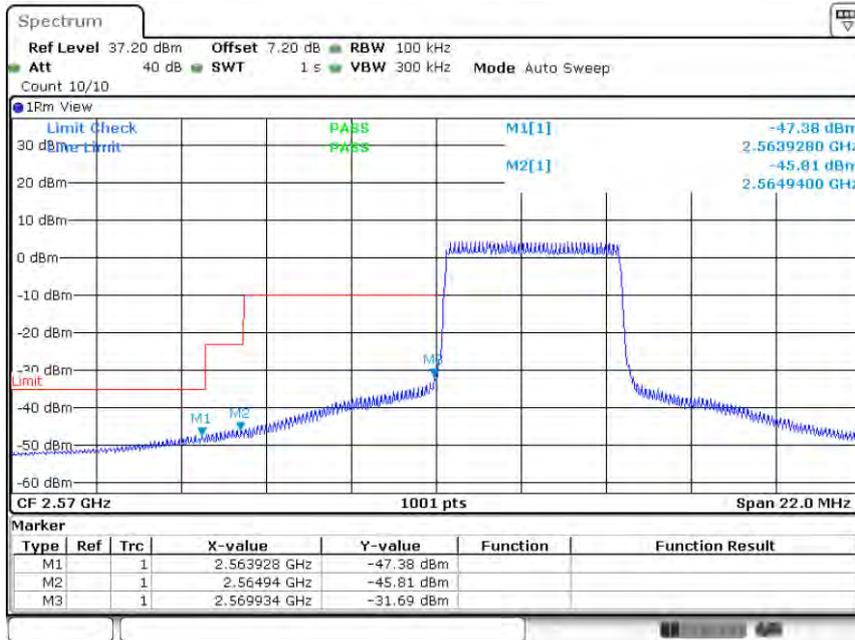
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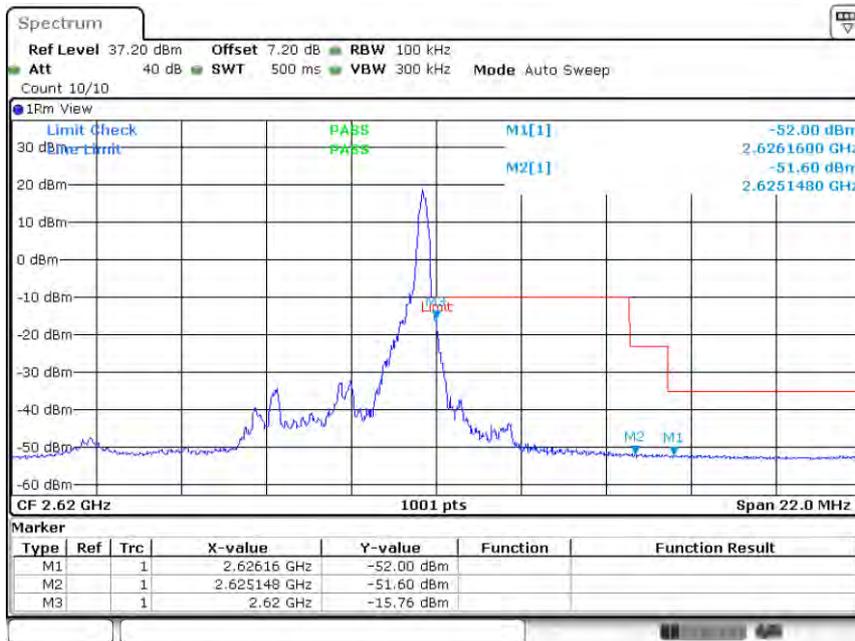


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Date: 10.MAY.2021 02:34:25

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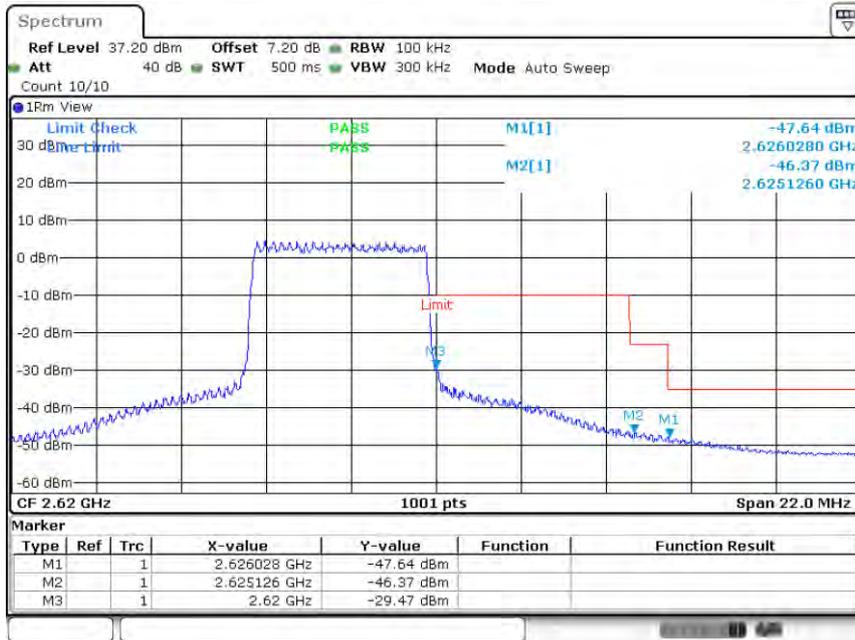


Date: 10.MAY.2021 02:33:48



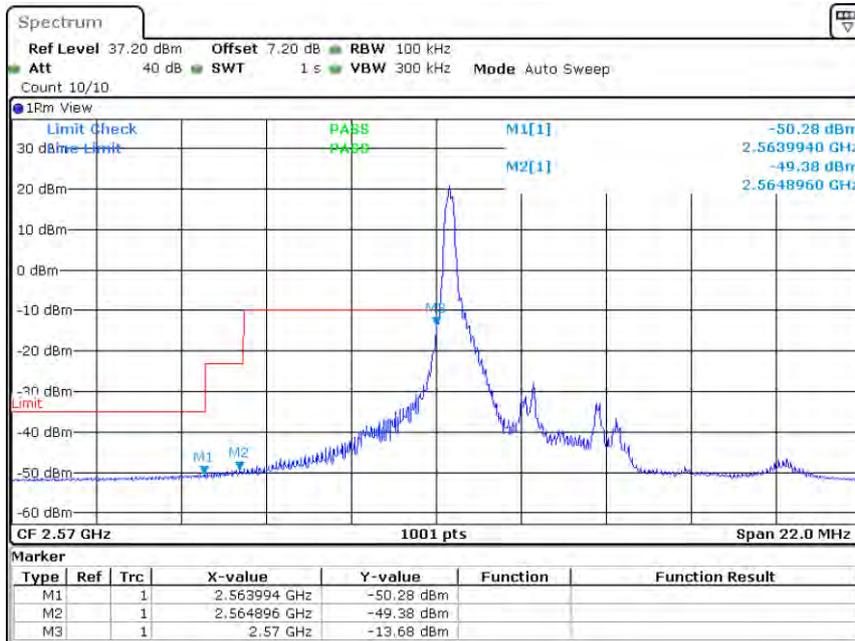
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Band38-5MHz-64QAM-38225-25RB#0



Date: 10.MAY.2021 02:34:57

Band38-5MHz-16QAM-37775-1RB#0



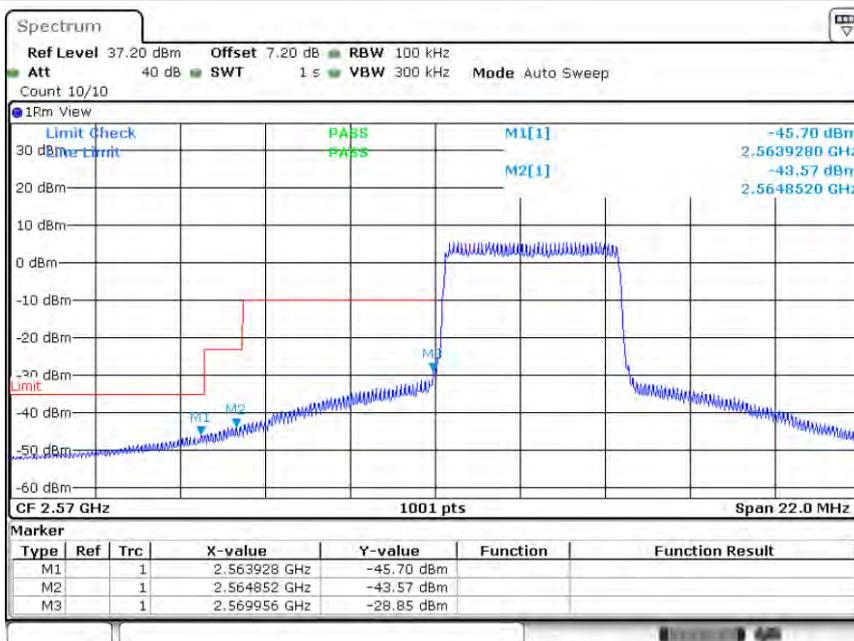
Date: 5.MAY.2021 08:25:50



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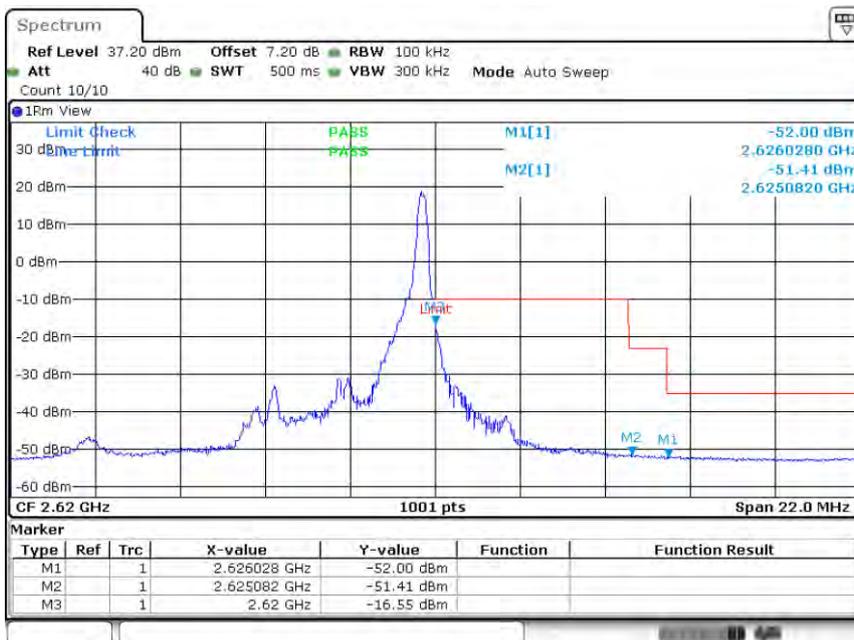


Band38-5MHz-16QAM-37775-25RB#0



Date: 10.MAY.2021 02:22:02

Band38-5MHz-16QAM-38225-1RB#24

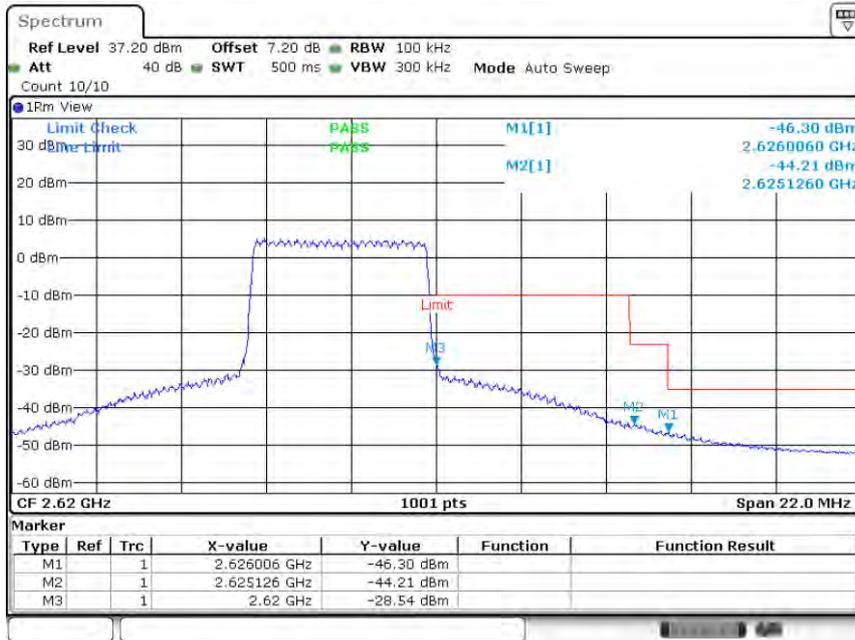


Date: 10.MAY.2021 02:21:15



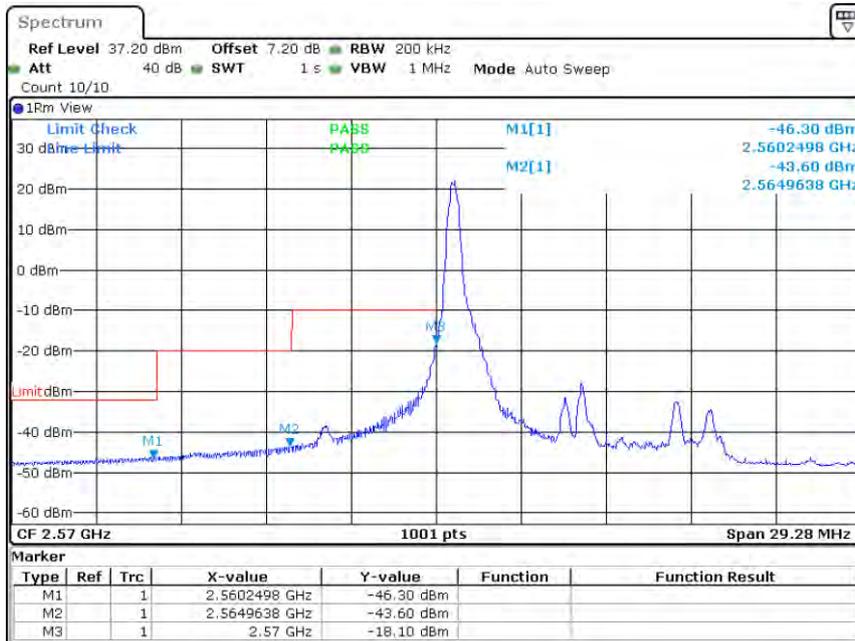
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Band38-5MHz-16QAM-38225-25RB#0



Date: 10.MAY.2021 02:24:14

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



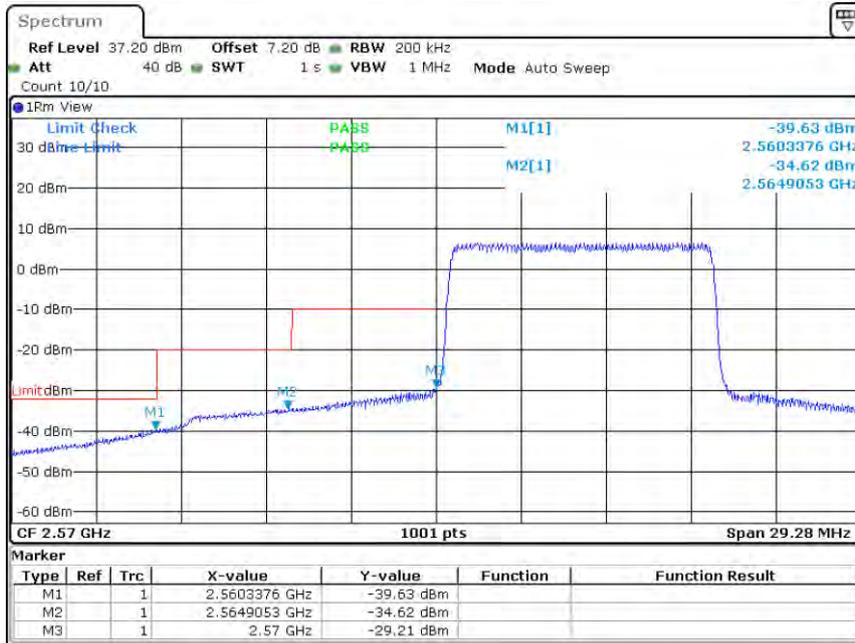
Date: 5.MAY.2021 08:29:23



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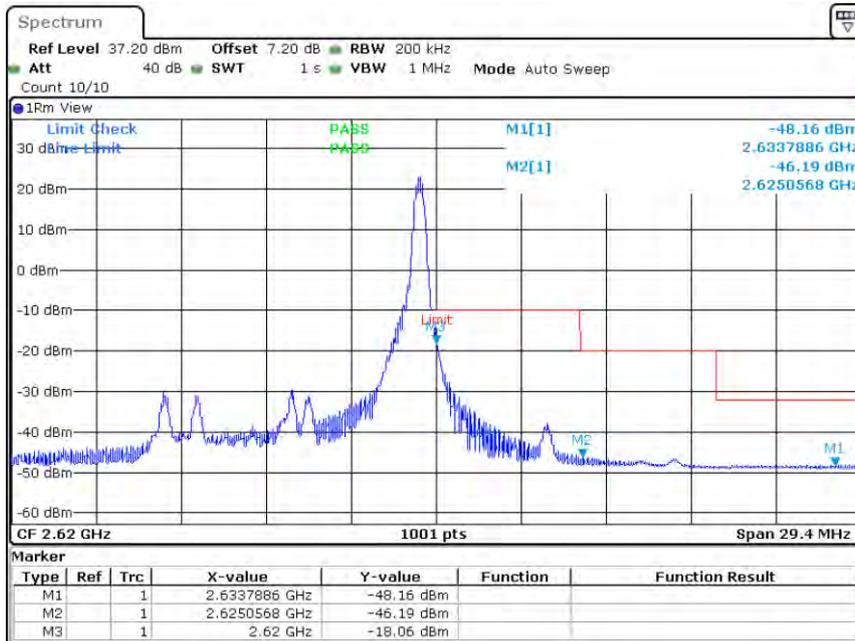


Band38-10MHz-QPSK-37800-50RB#0



Date: 5.MAY.2021 08:30:58

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

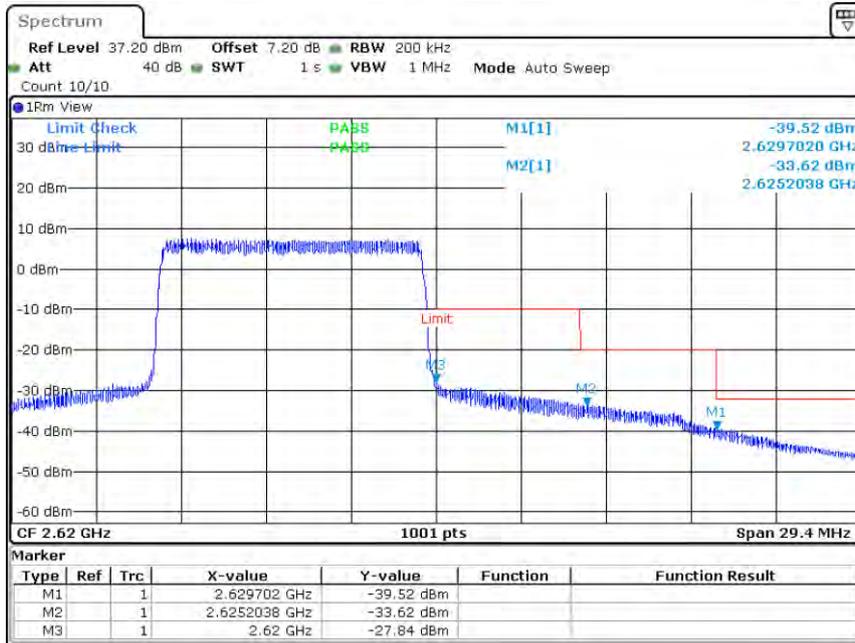


Date: 5.MAY.2021 08:30:11



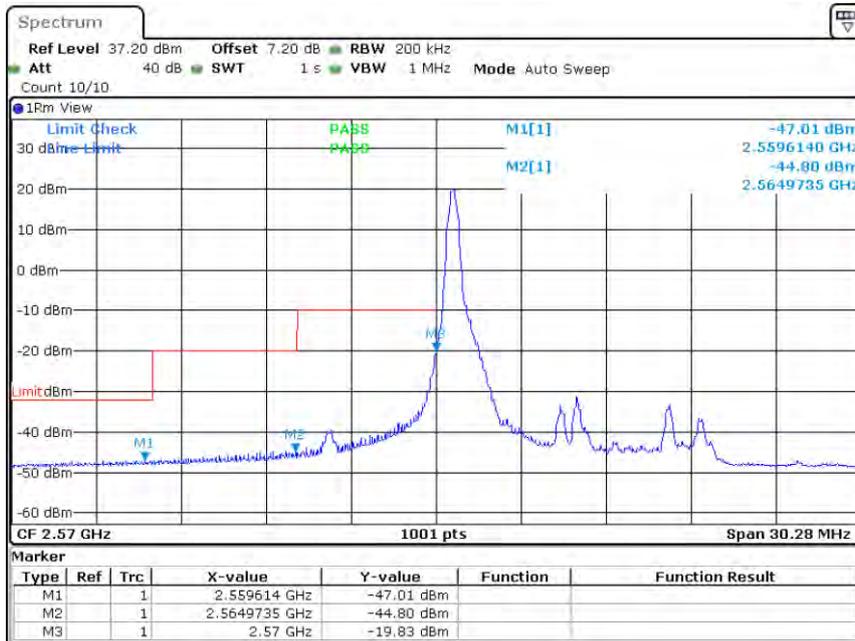
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Band38-10MHz-QPSK-38200-50RB#0



Date: 5.MAY.2021 08:31:42

Band38-10MHz-64QAM-37800-1RB#0



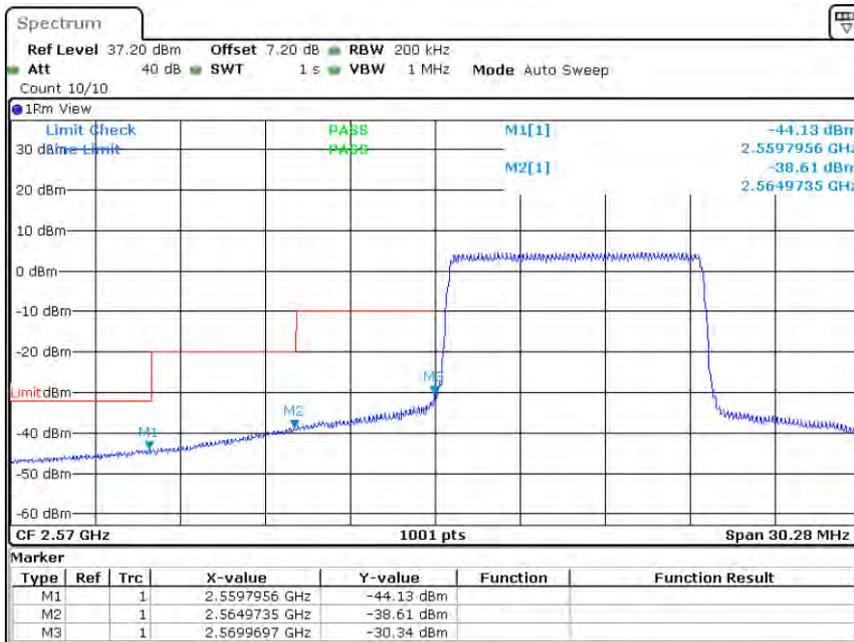
Date: 5.MAY.2021 09:23:20



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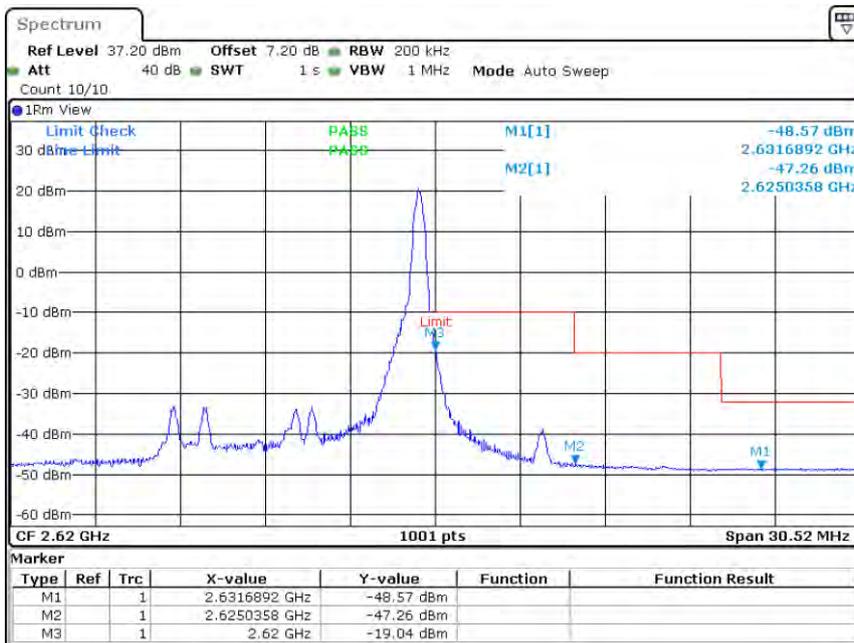


Band38-10MHz-64QAM-37800-50RB#0



Date: 5.MAY 2021 09:24:13

Band38-10MHz-64QAM-38200-1RB#49

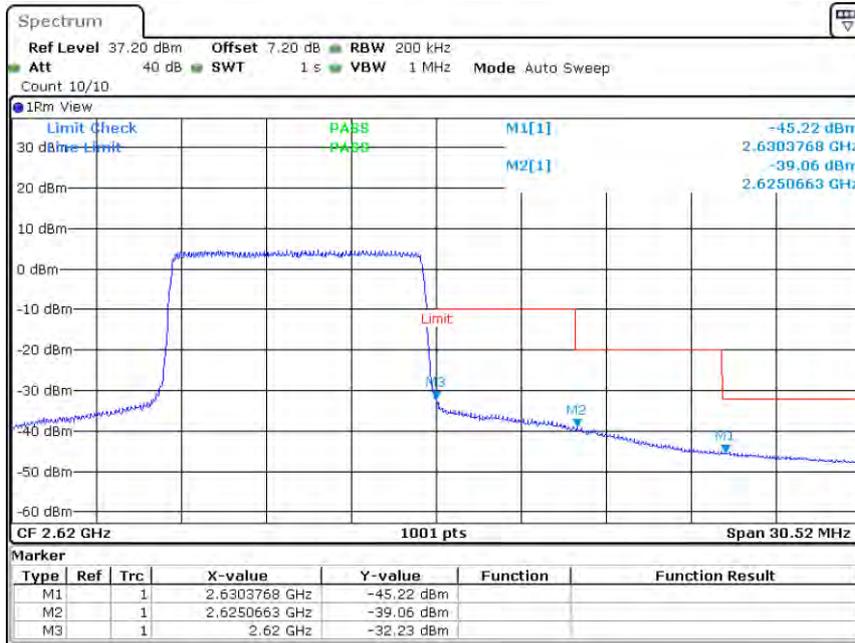


Date: 5.MAY 2021 09:23:47



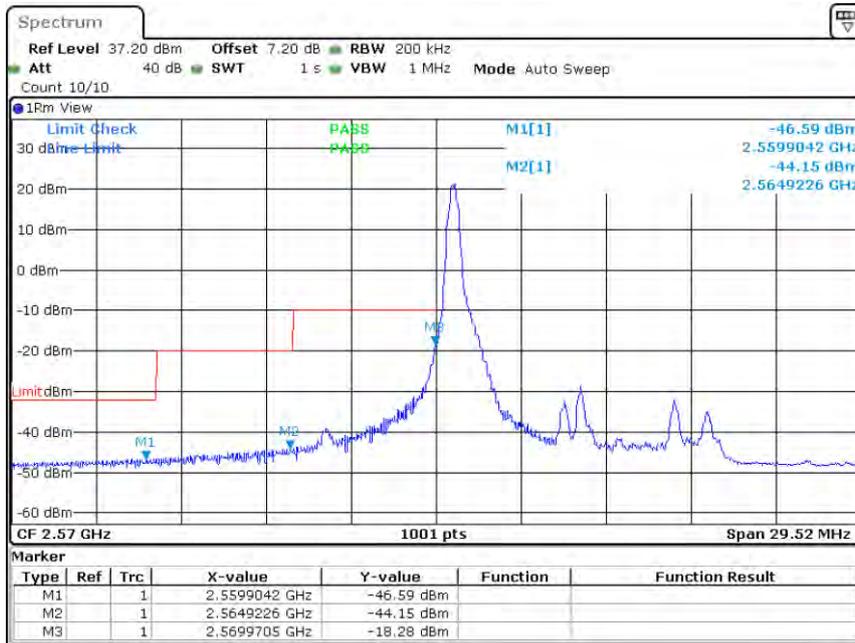
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Band38-10MHz-64QAM-38200-50RB#0



Date: 5.MAY.2021 09:24:35

Band38-10MHz-16QAM-37800-1RB#0



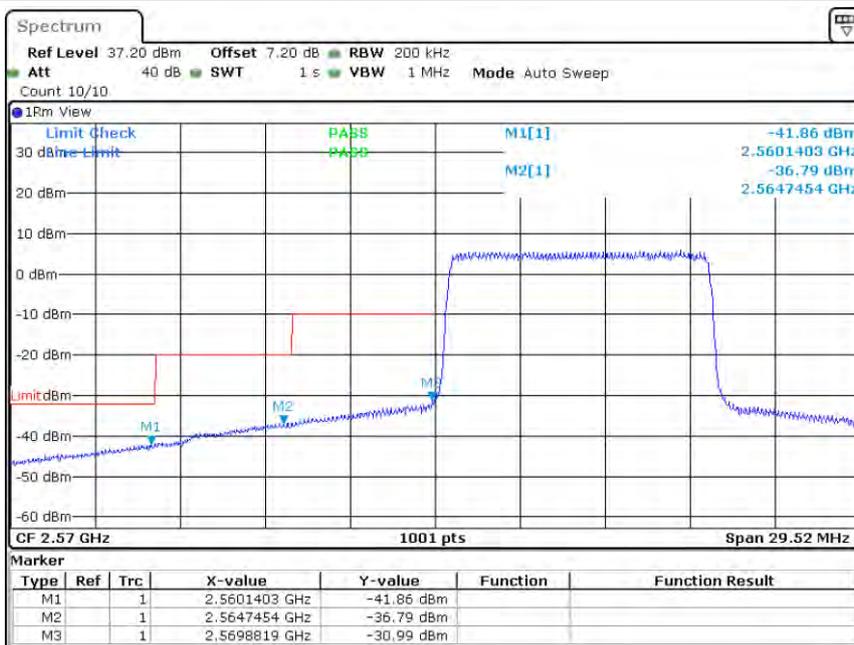
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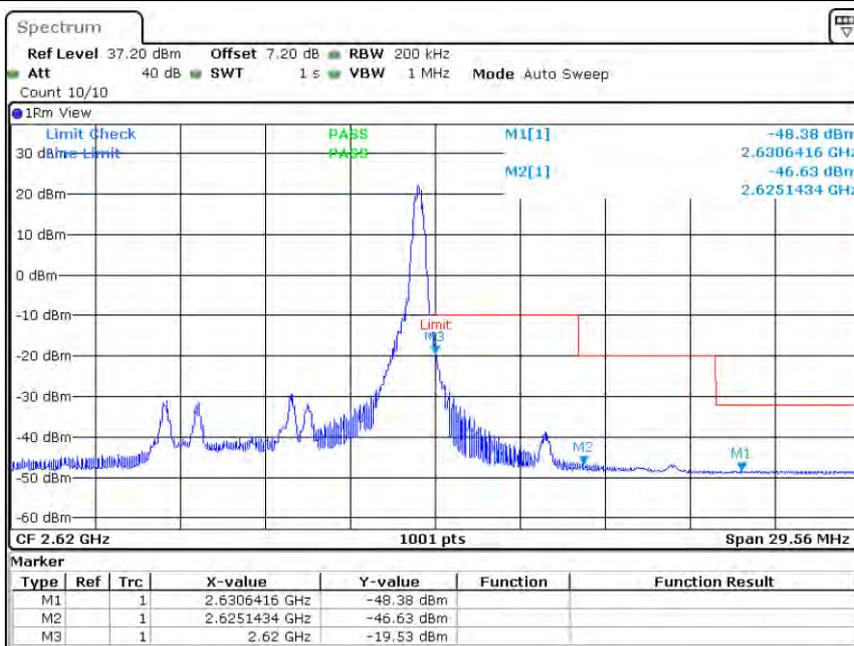


Band38-10MHz-16QAM-37800-50RB#0



Date: 5.MAY.2021 08:31:20

Band38-10MHz-16QAM-38200-1RB#49



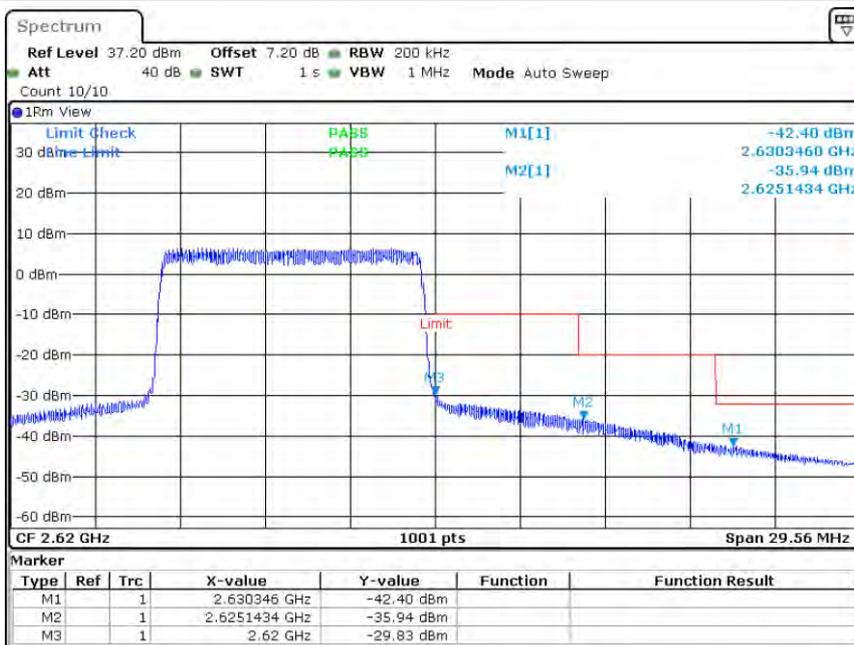
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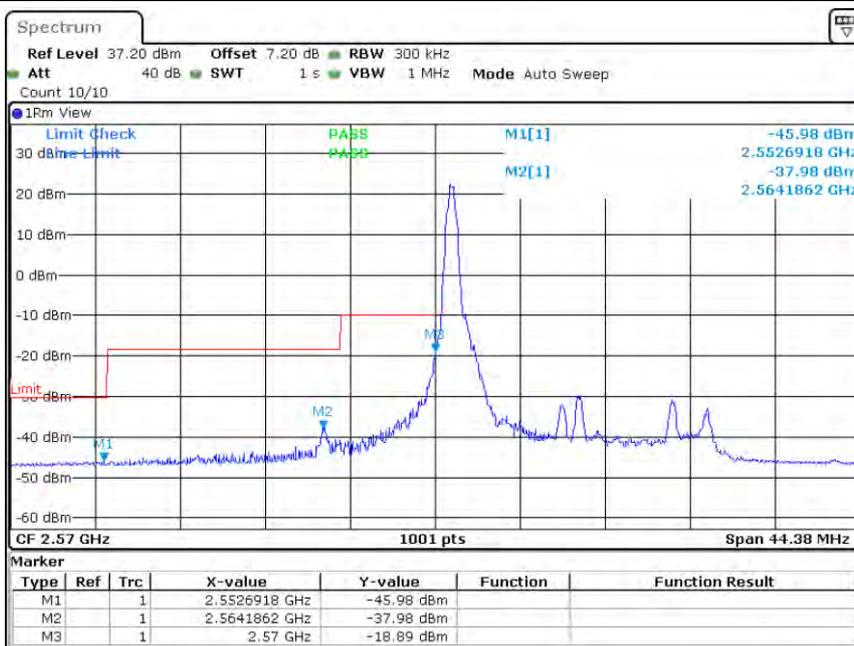


Band38-10MHz-16QAM-38200-50RB#0



Date: 5.MAY.2021 08:32:03

Band38-15MHz-QPSK-37825-1RB#0

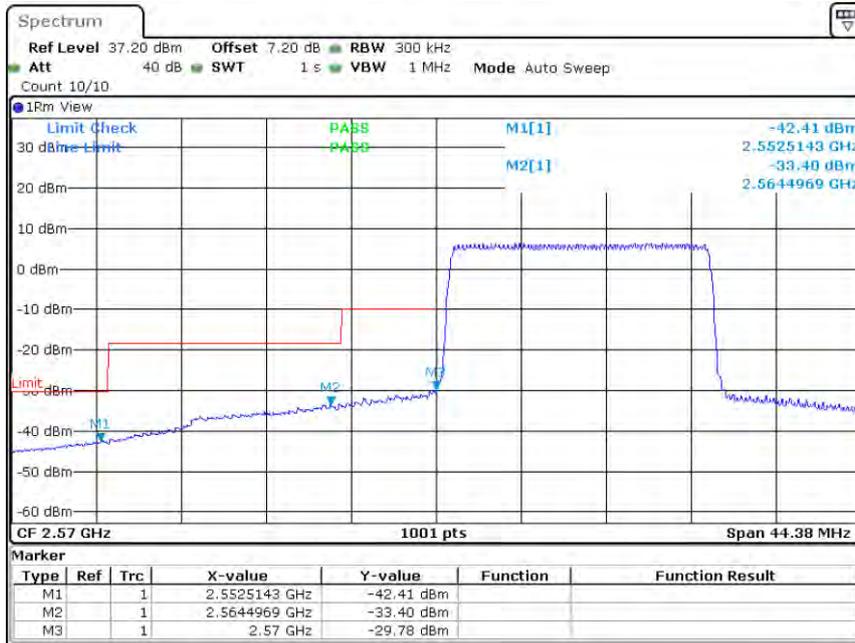


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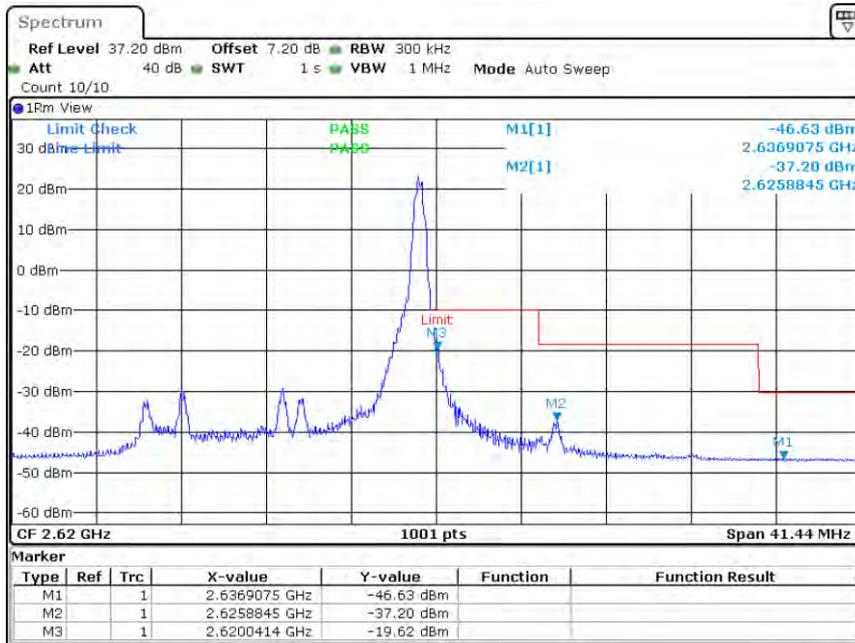
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Band38-15MHz-QPSK-37825-75RB#0



Date: 5.MAY.2021 08:34:05

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

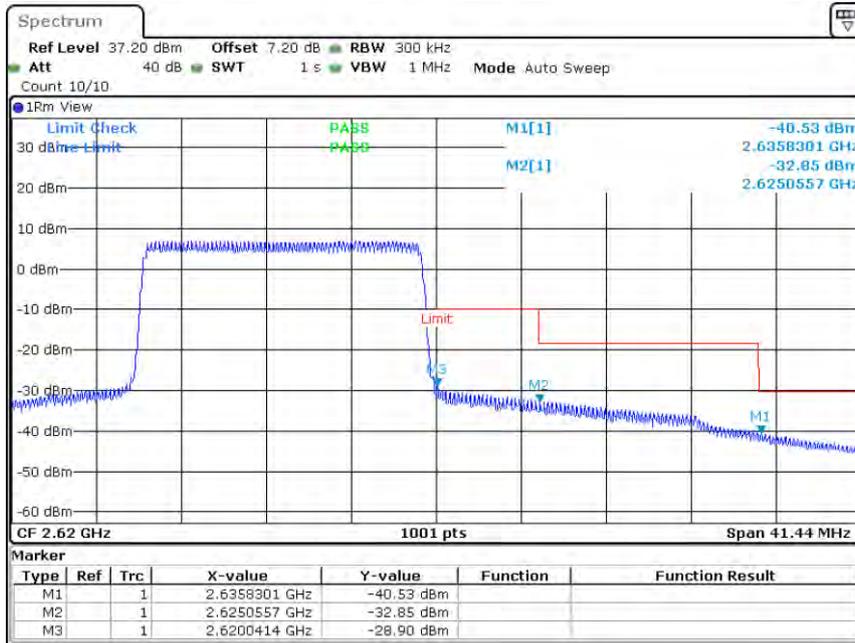


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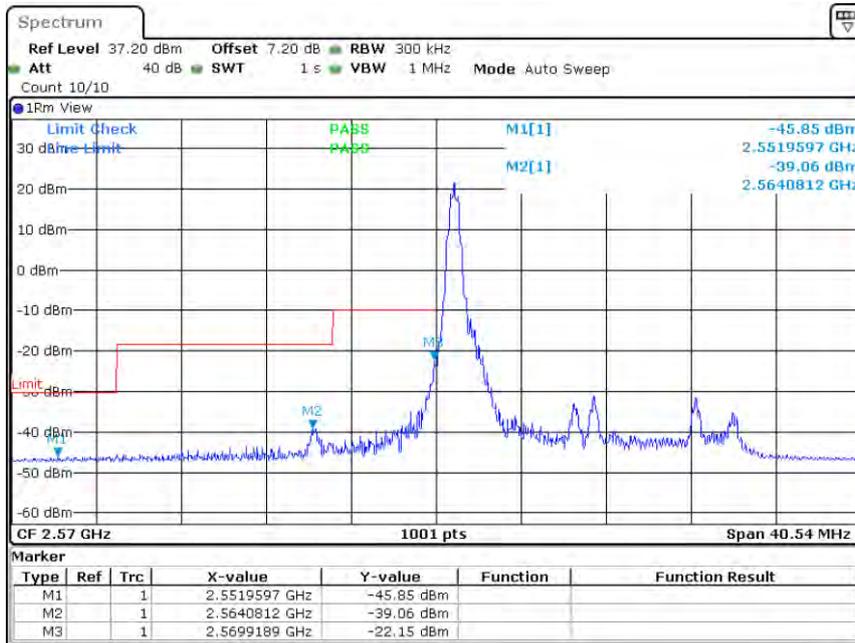
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Band38-15MHz-QPSK-38175-75RB#0



Date: 5.MAY 2021 08:34:49

Band38-15MHz-64QAM-37825-1RB#0



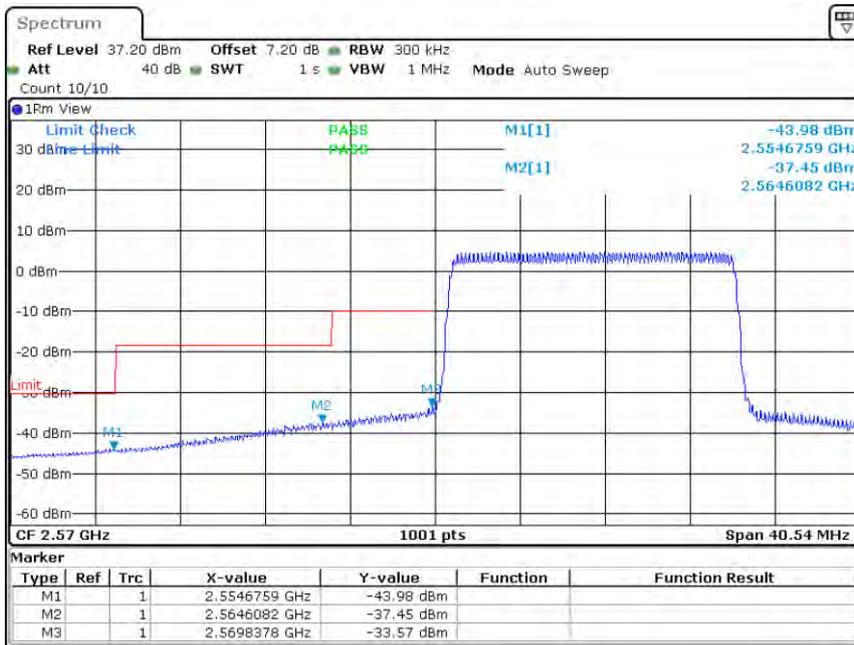
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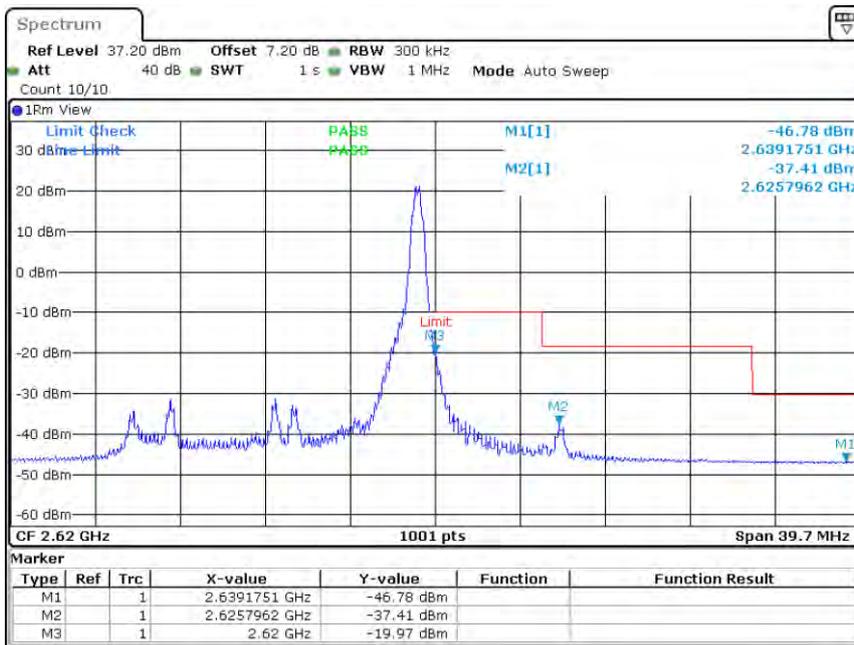


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Date: 5.MAY 2021 09:25:58

Band38-15MHz-64QAM-38175-1RB#74



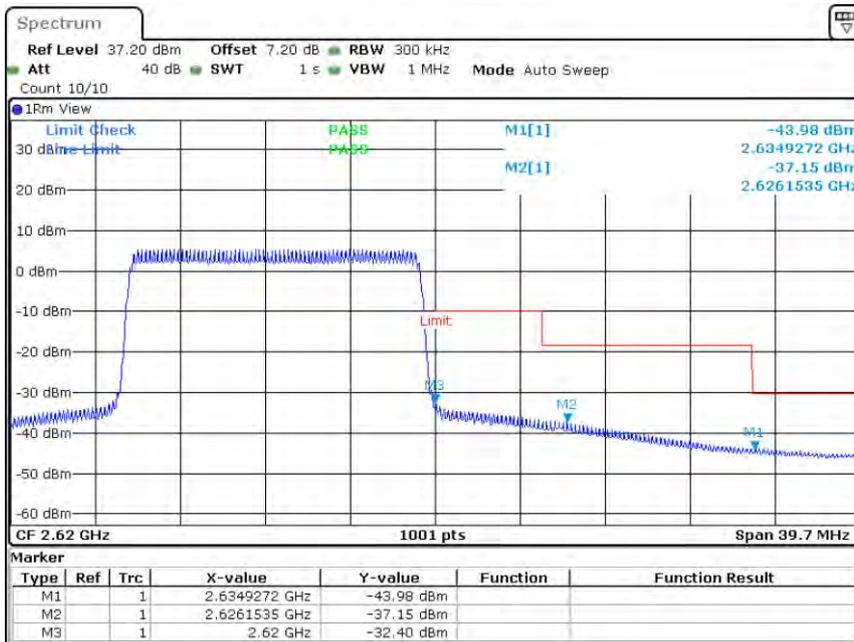
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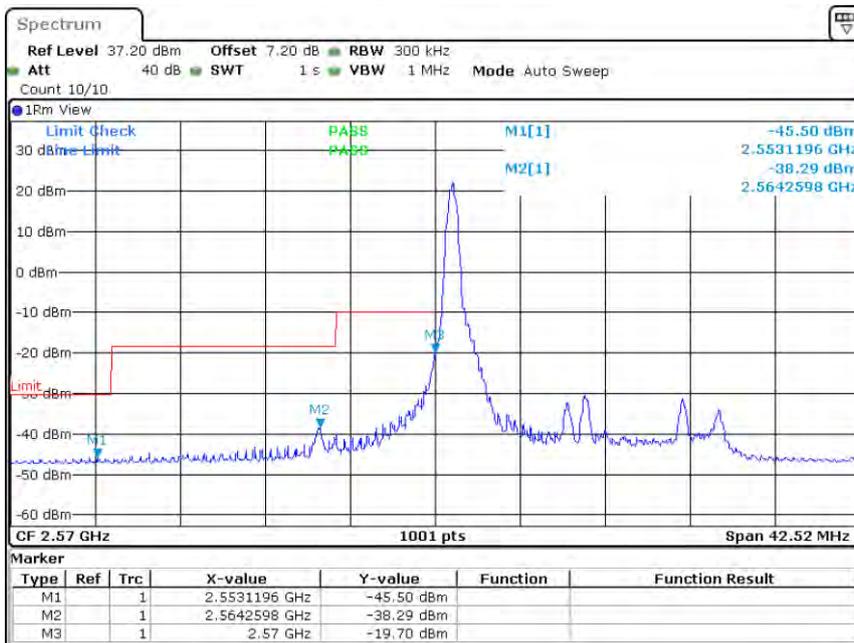


Band38-15MHz-64QAM-38175-75RB#0



Date: 5.MAY.2021 09:26:20

Band38-15MHz-16QAM-37825-1RB#0



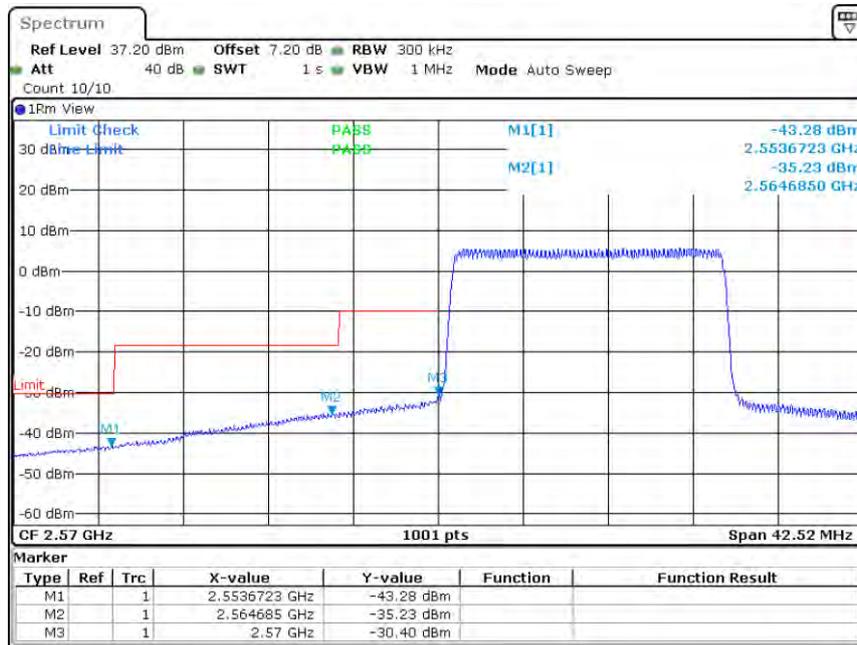
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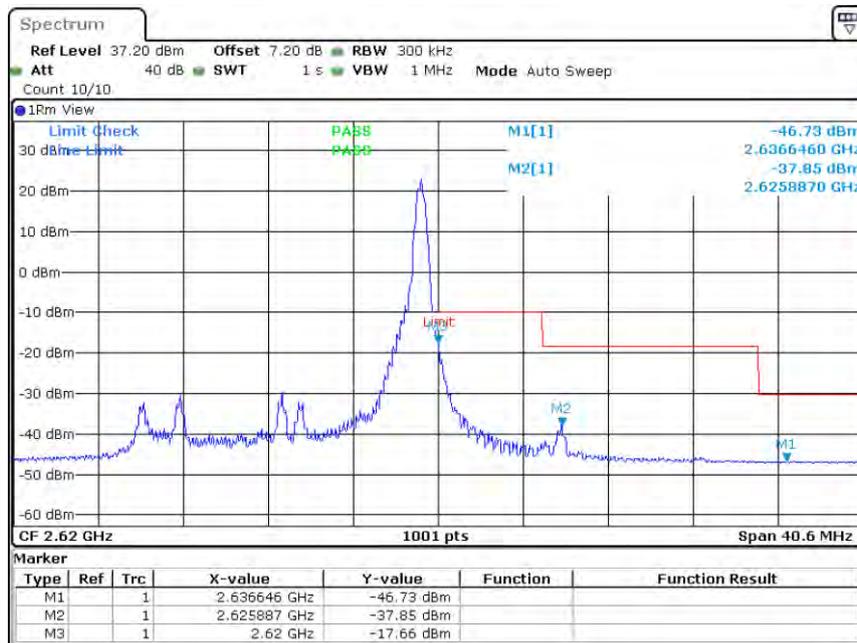


Band38-15MHz-16QAM-37825-75RB#0



Date: 5.MAY 2021 08:34:27

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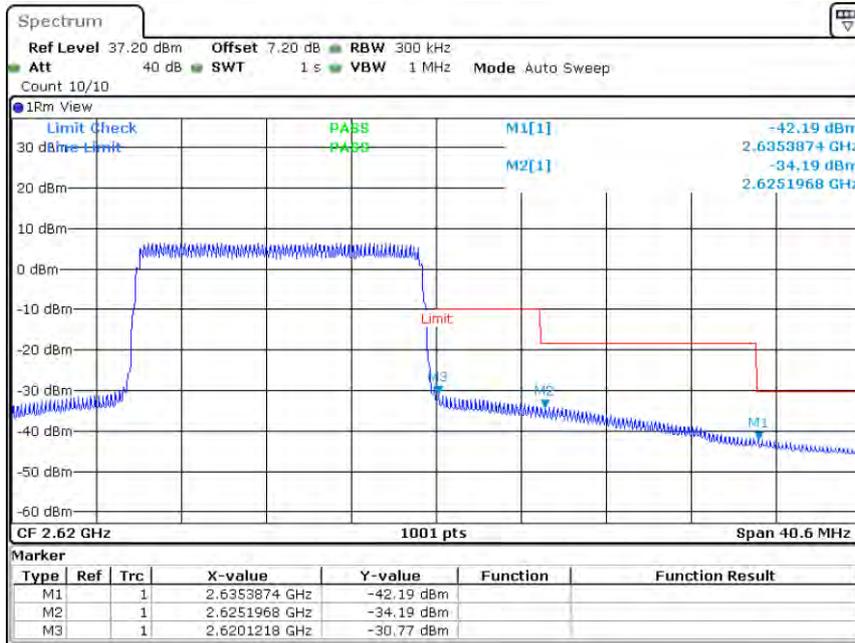


Date: 5.MAY 2021 08:33:39



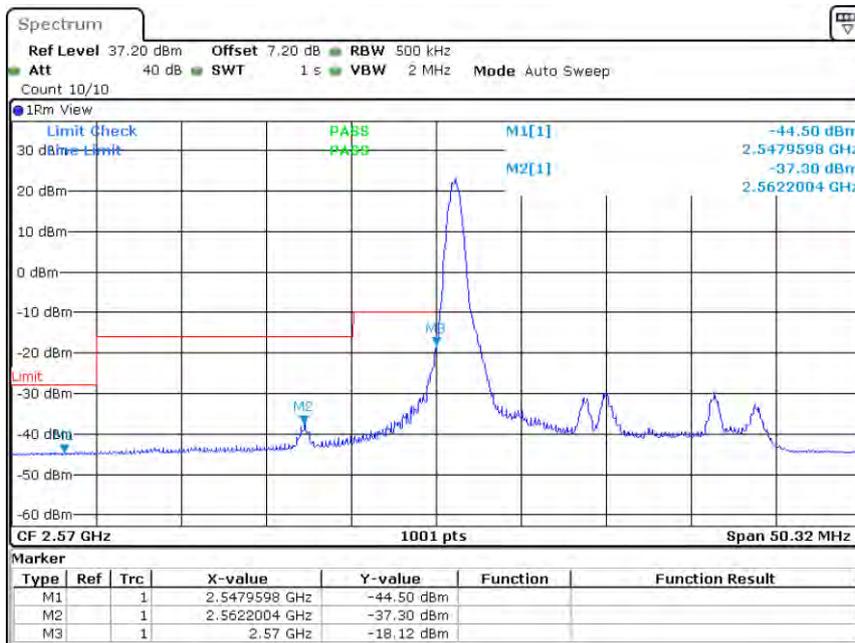
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Band38-15MHz-16QAM-38175-75RB#0



Date: 5.MAY.2021 08:35:10

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

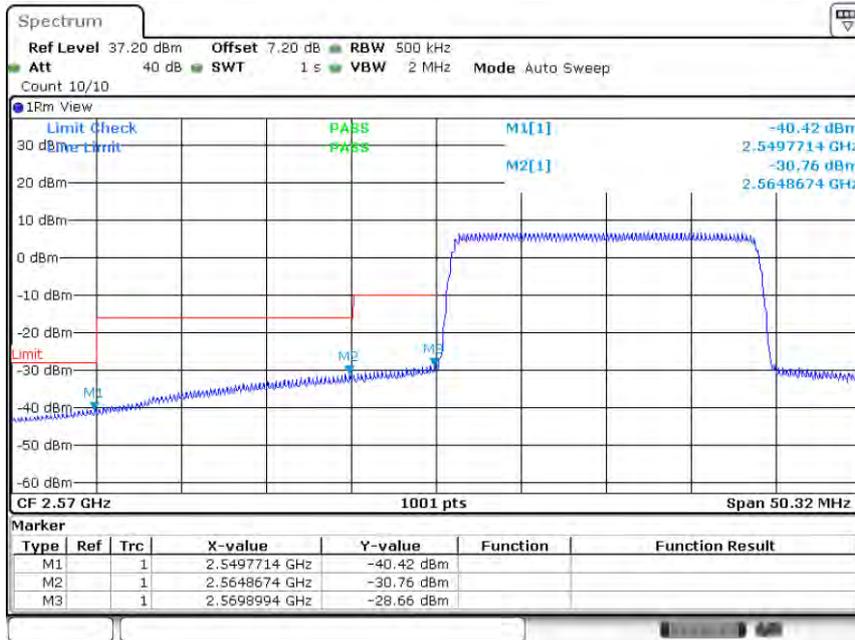


Date: 5.MAY.2021 08:35:37



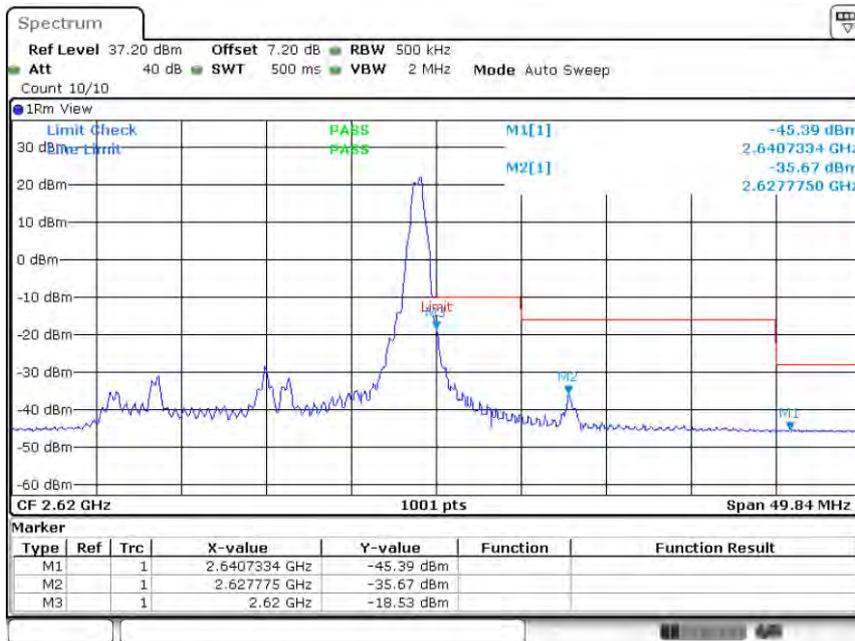
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Band38-20MHz-QPSK-37850-100RB#0



Date: 10.MAY.2021 02:26:21

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

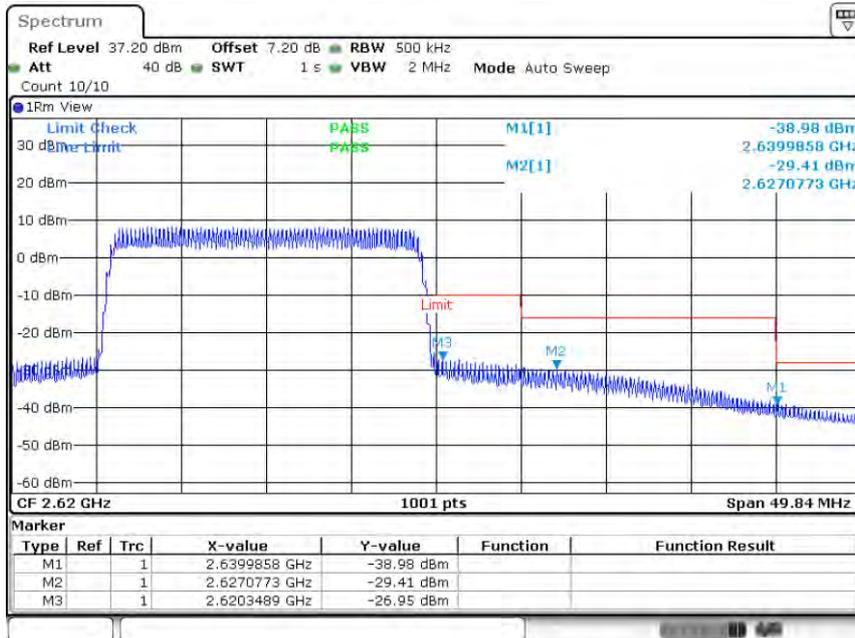


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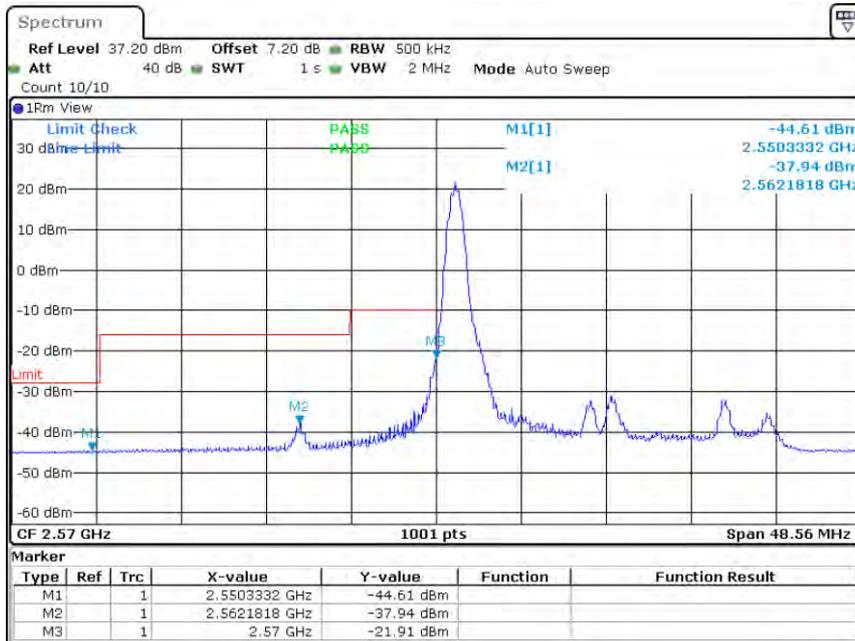
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Band38-20MHz-QPSK-38150-100RB#0



Date: 10.MAY.2021 02:27:20

Band38-20MHz-64QAM-37850-1RB#0

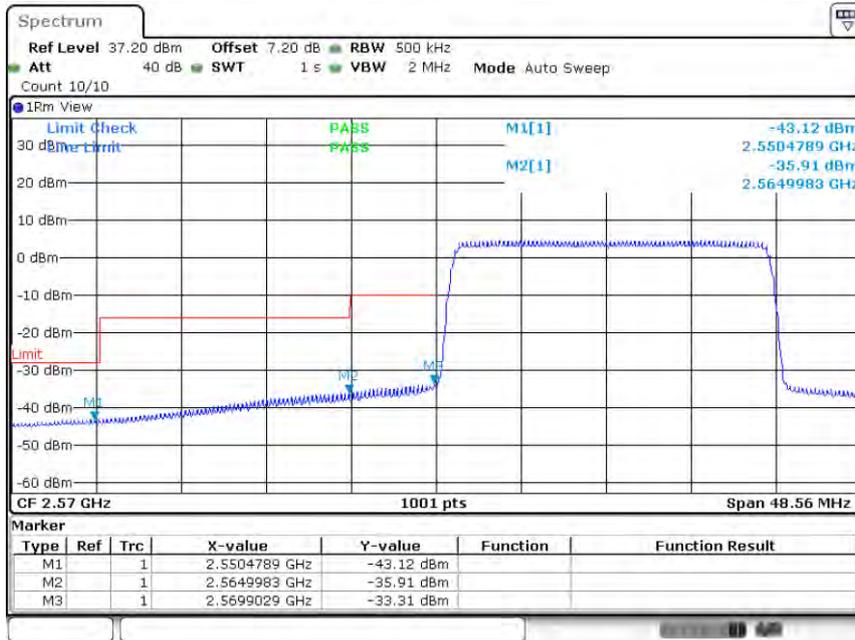


Date: 5.MAY.2021 09:26:48



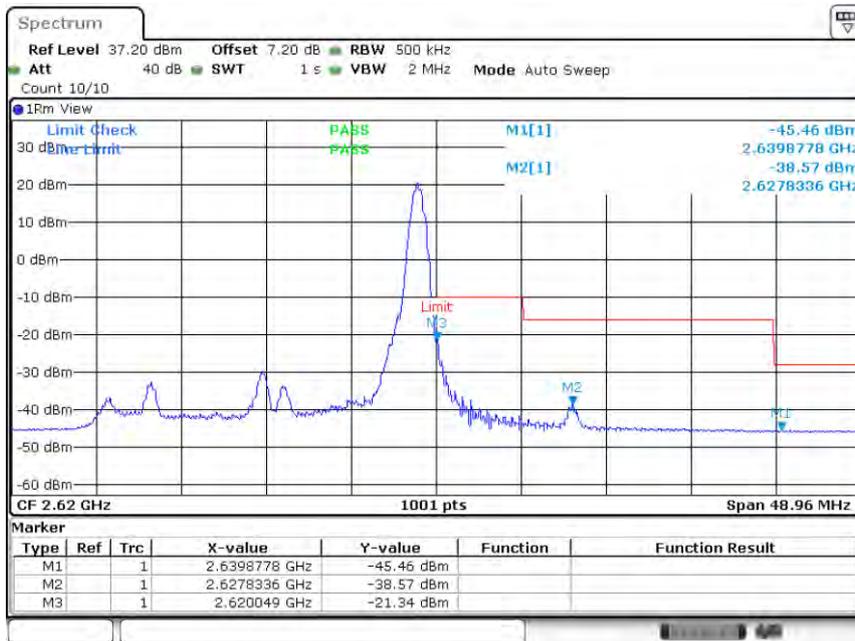
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Band38-20MHz-64QAM-37850-100RB#0



Date: 10.MAY.2021 02:35:51

Band38-20MHz-64QAM-38150-1RB#99

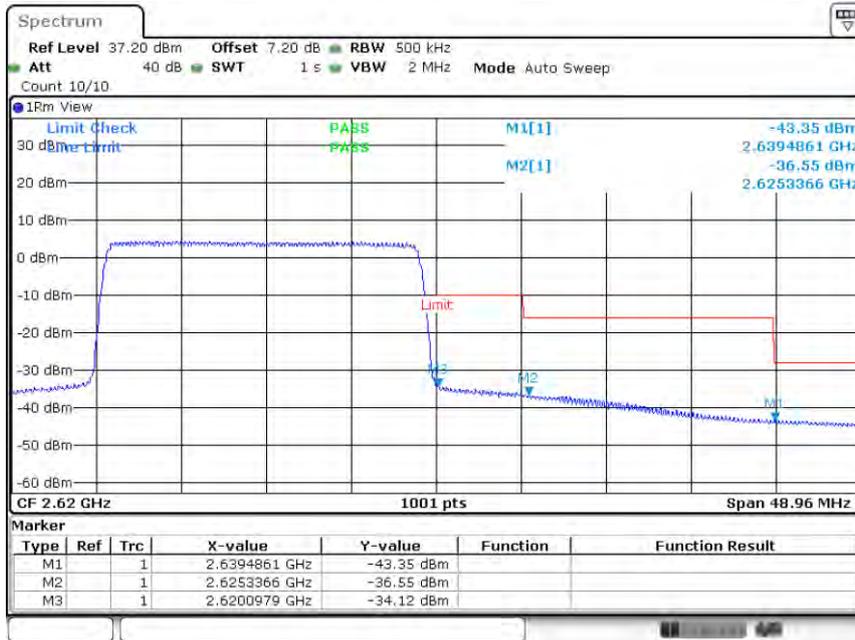


Date: 10.MAY.2021 02:35:25



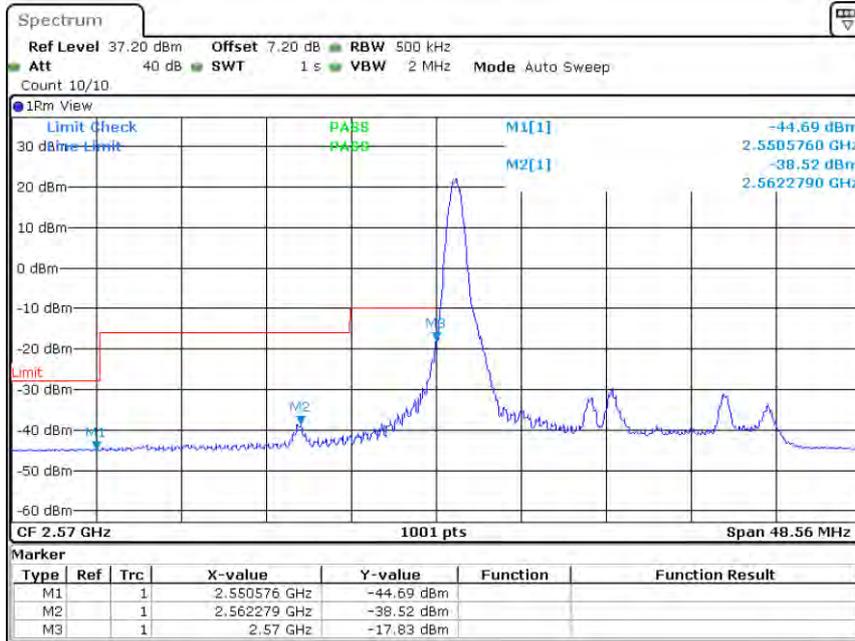
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Band38-20MHz-64QAM-38150-100RB#0



Date: 10.MAY.2021 02:36:13

Band38-20MHz-16QAM-37850-1RB#0

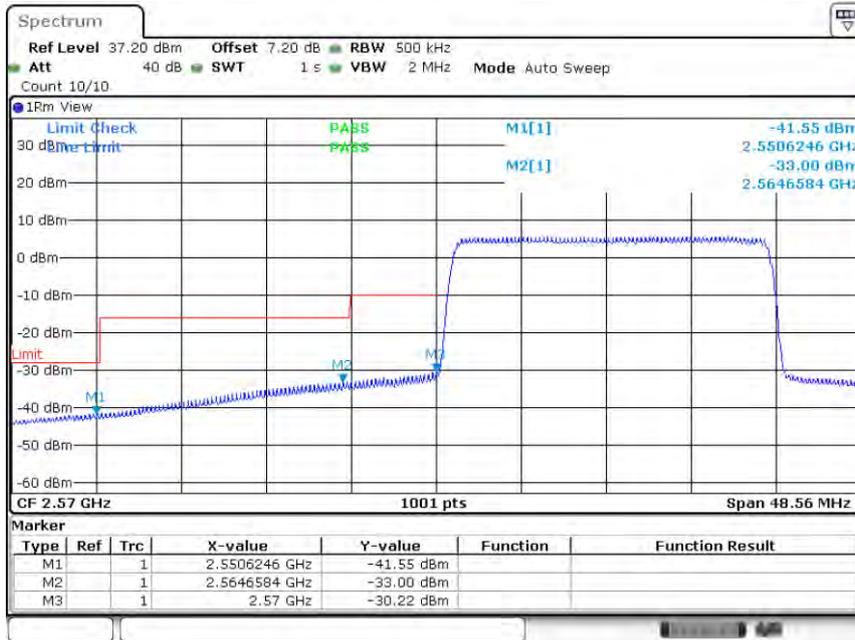


Date: 5.MAY.2021 08:35:59



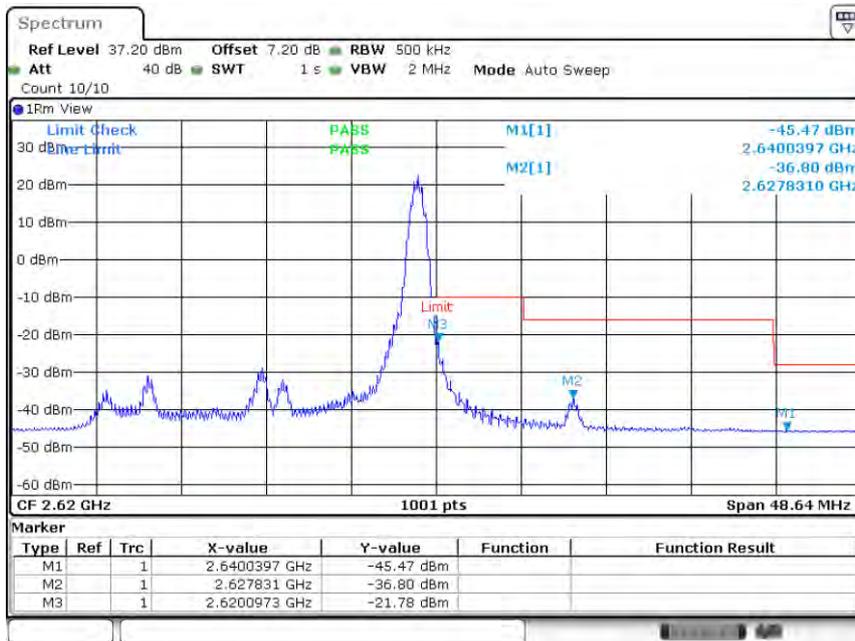
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Band38-20MHz-16QAM-37850-100RB#0



Date: 10.MAY.2021 02:26:42

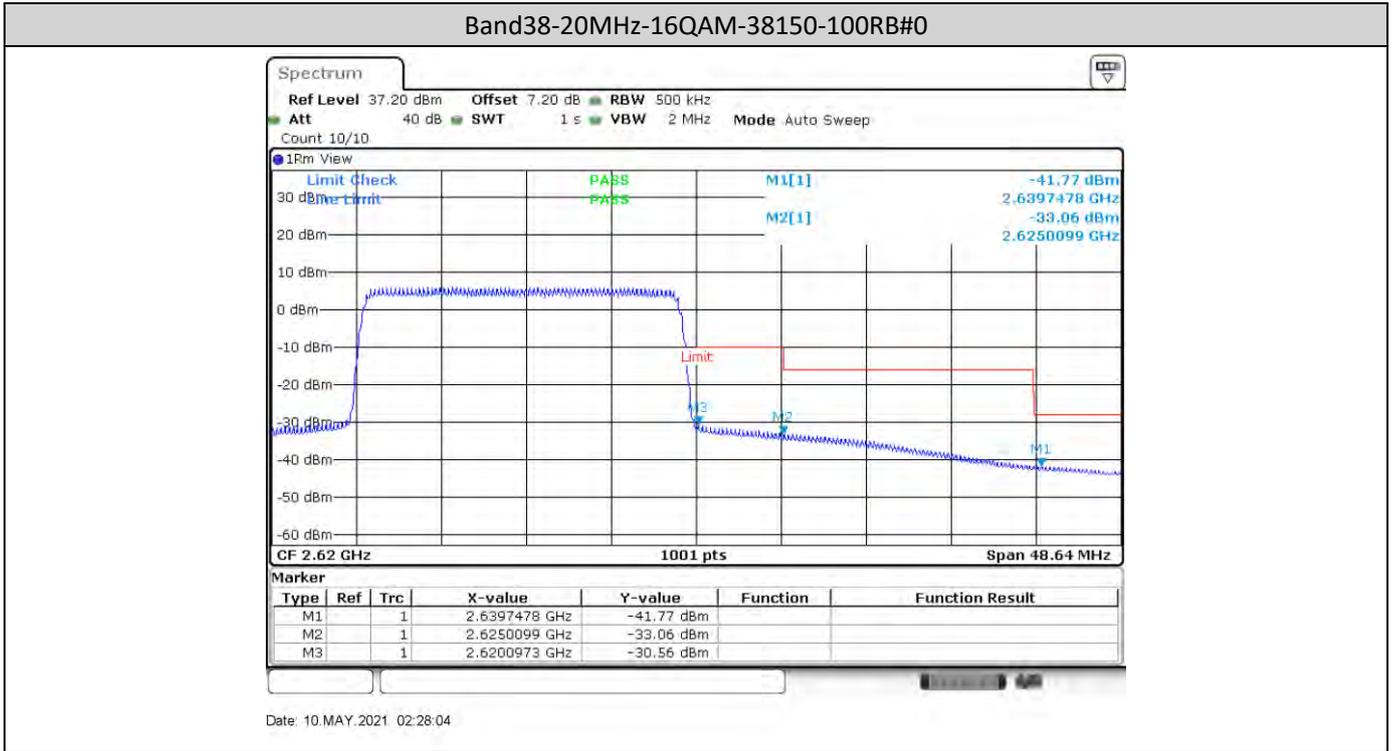
Band38-20MHz-16QAM-38150-1RB#99



Date: 10.MAY.2021 02:25:12



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Remark: The limit of more than 1MHz offset the channel edge is corrected by the formula:
 $X = \text{Limit} + 10 \log(\text{RBW}/1000\text{kHz})$



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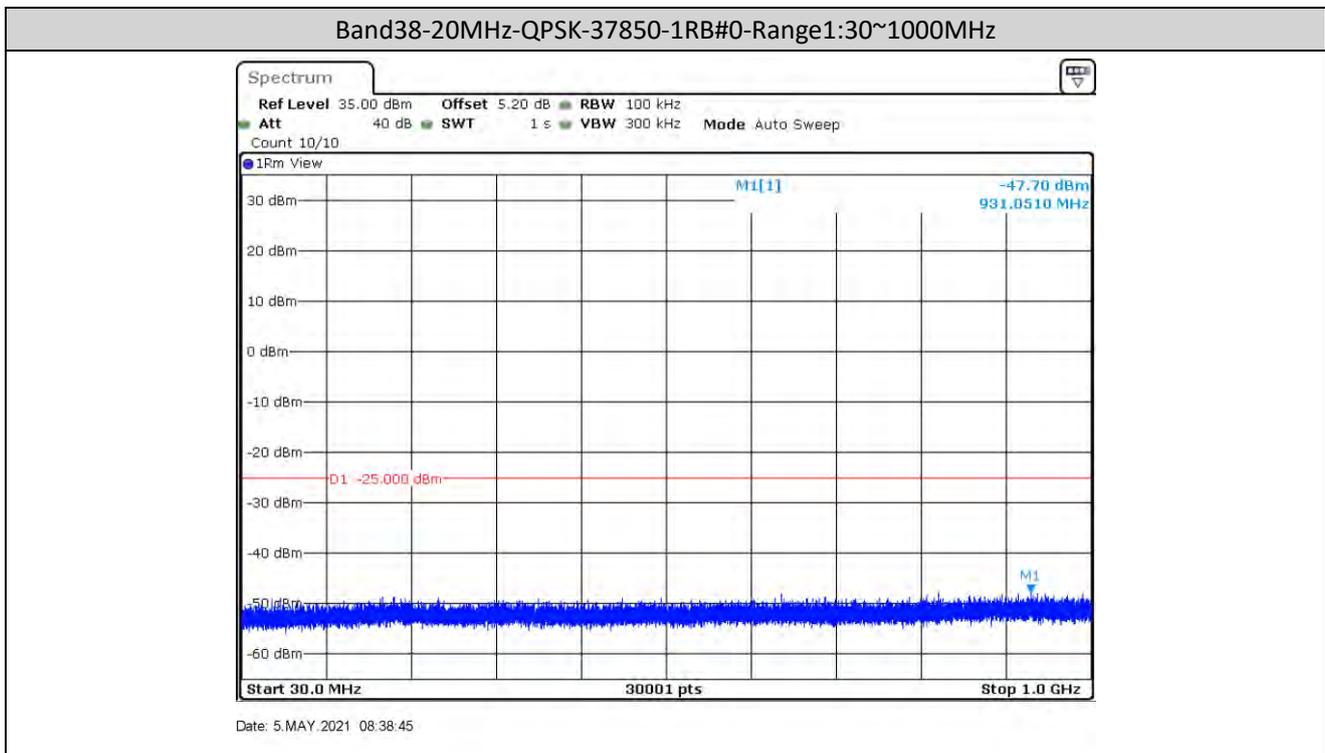
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

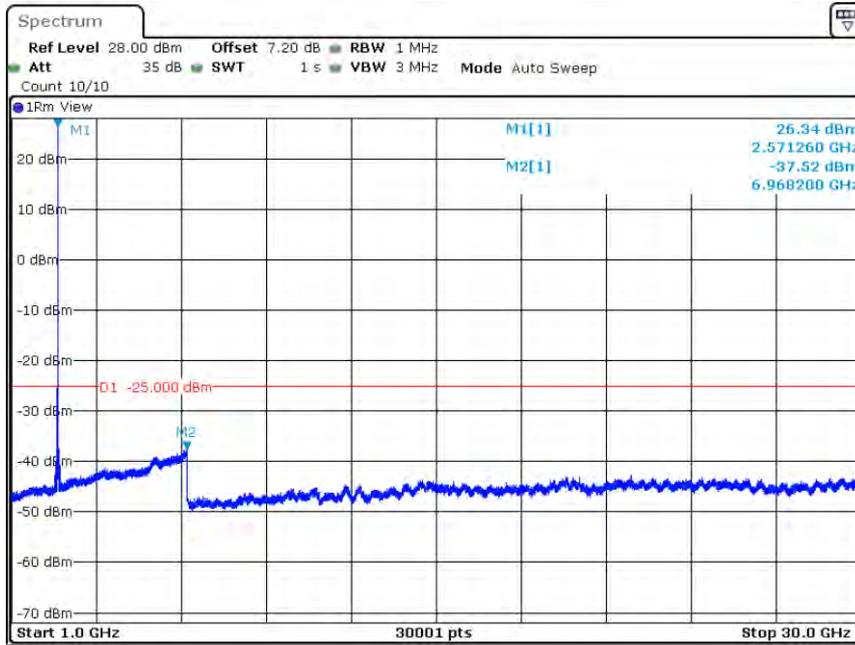
Remark3: The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

6.1. Test Plots



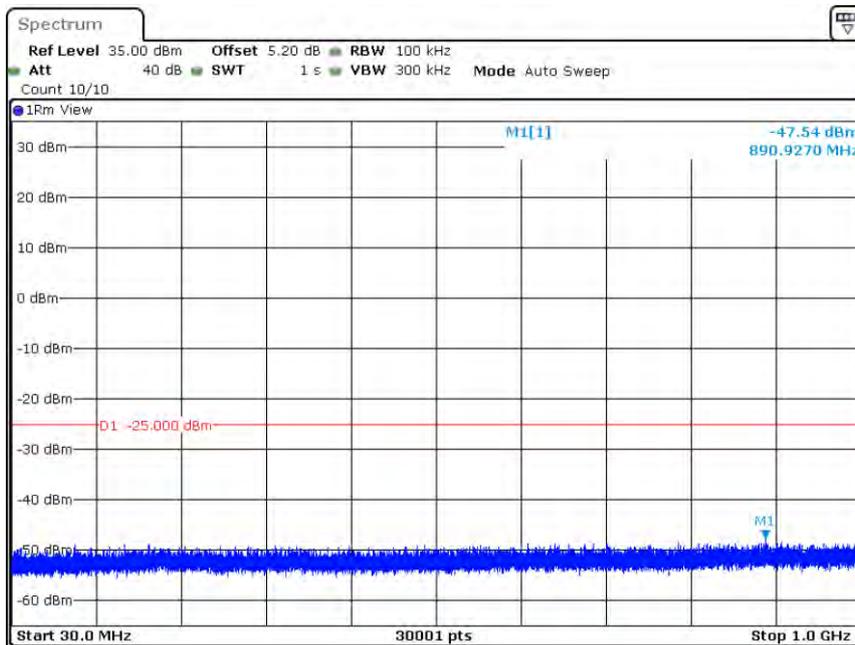
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Band38-20MHz-QPSK-37850-1RB#0-Range2:100~30000MHz



Date: 5.MAY.2021 08:39:02

Band38-20MHz-QPSK-38000-1RB#0-Range1:30~1000MHz



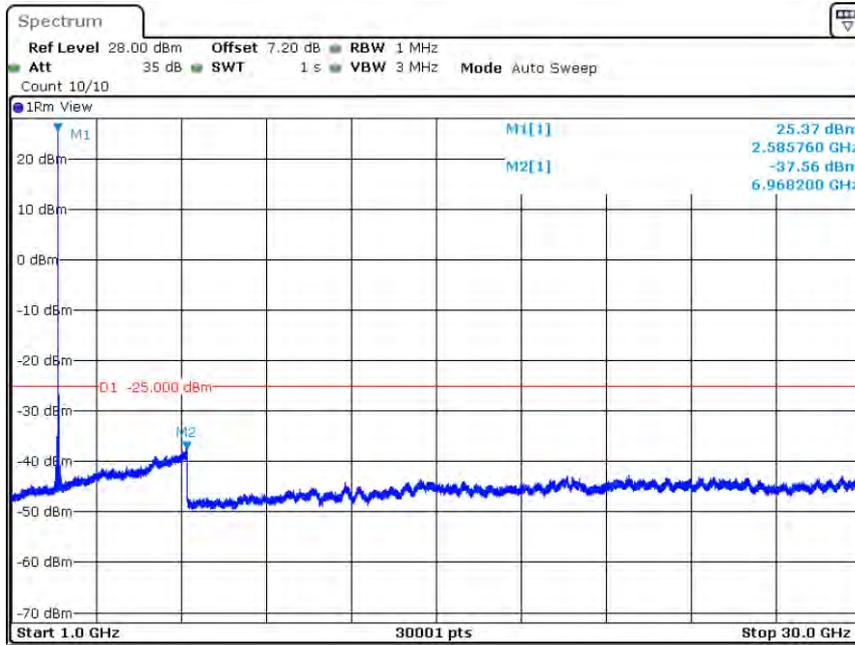
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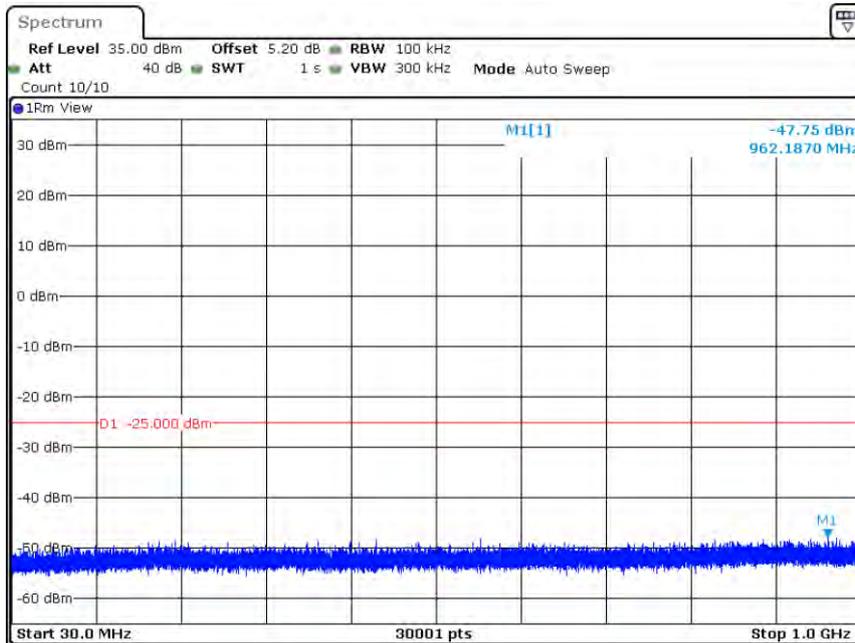
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Band38-20MHz-QPSK-38000-1RB#0-Range2:100~30000MHz



Date: 5.MAY.2021 08:40:13

Band38-20MHz-QPSK-38150-1RB#0-Range1:30~1000MHz

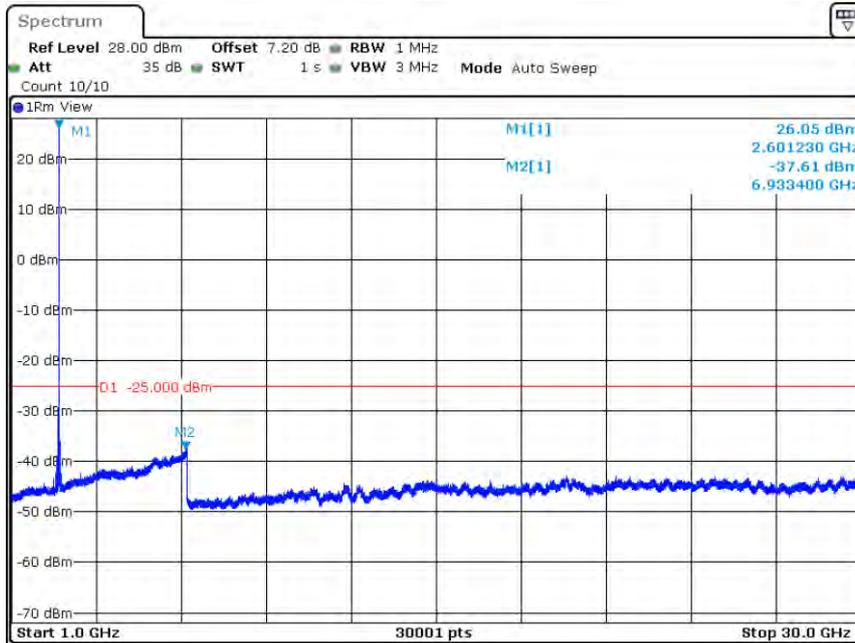


Date: 5.MAY.2021 08:41:07



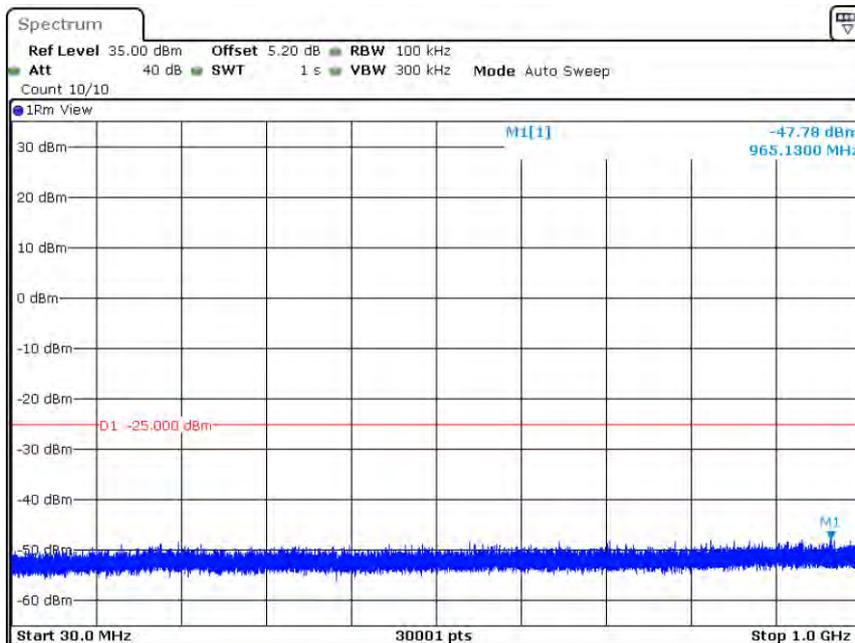
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Band38-20MHz-QPSK-38150-1RB#0-Range2:1000~30000MHz



Date: 5.MAY.2021 08:41:24

Band38-20MHz-64QAM-37850-1RB#0-Range1:30~1000MHz



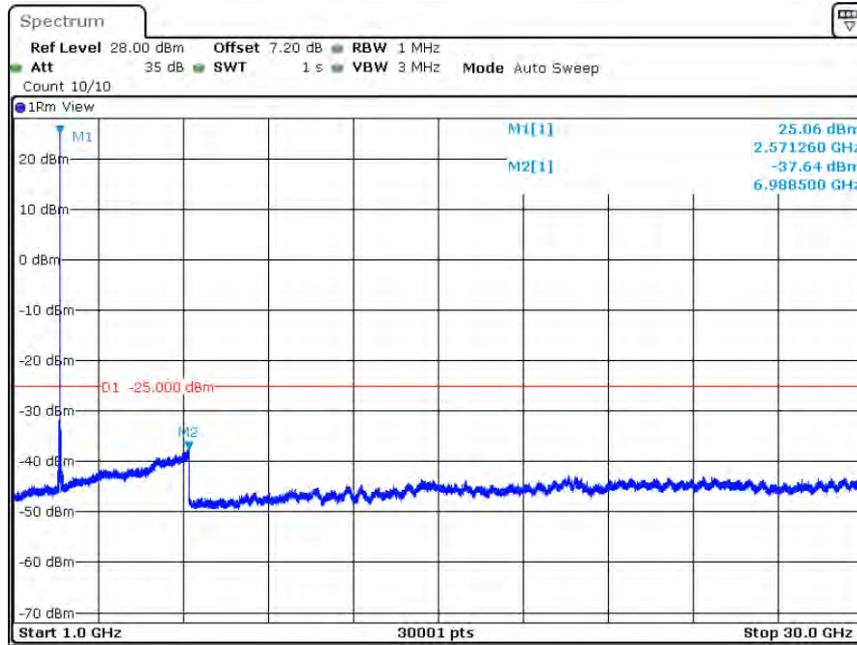
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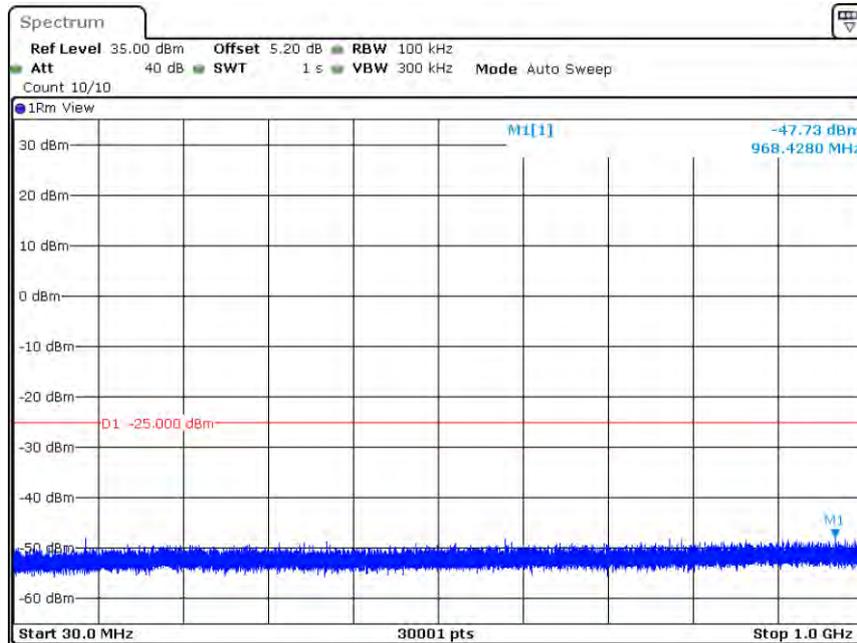
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Band38-20MHz-64QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 5.MAY 2021 09:28:44

Band38-20MHz-64QAM-38000-1RB#0-Range1:30~1000MHz



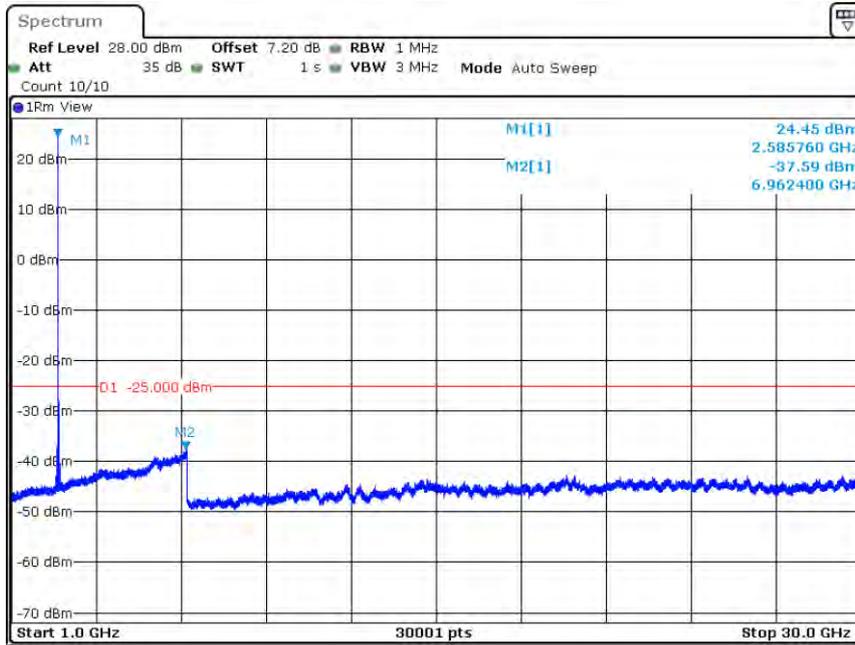
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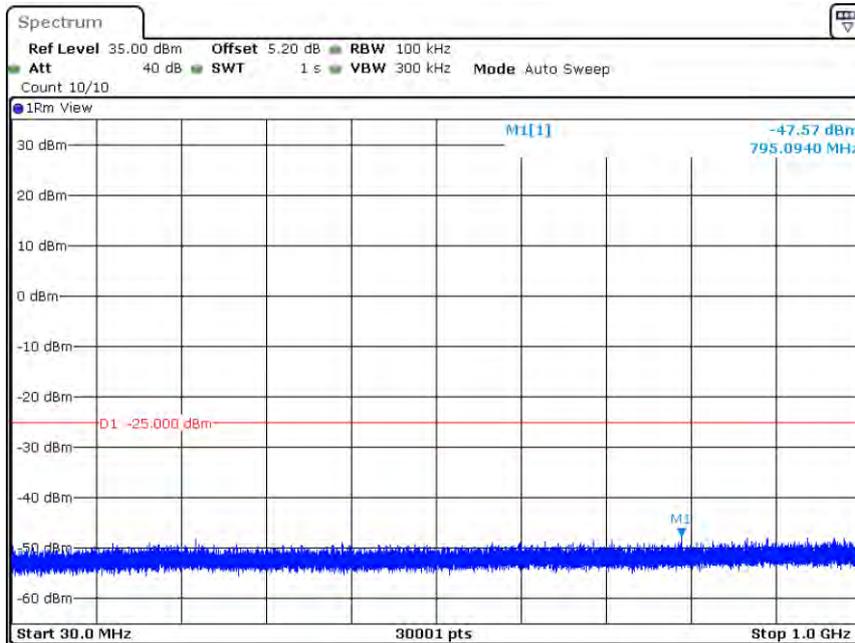
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Band38-20MHz-64QAM-38000-1RB#0-Range2:1000~30000MHz



Date: 5.MAY.2021 09:29:19

Band38-20MHz-64QAM-38150-1RB#0-Range1:30~1000MHz



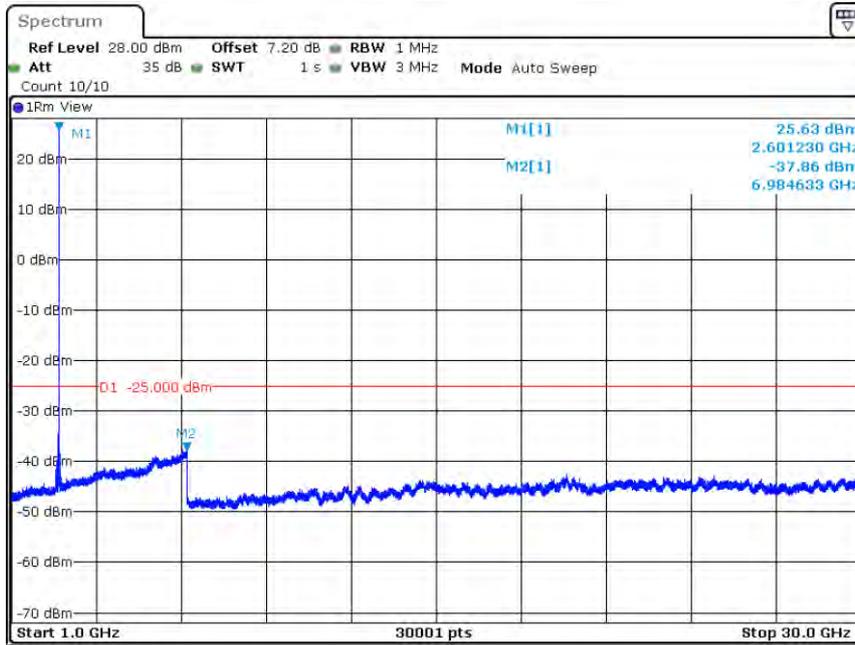
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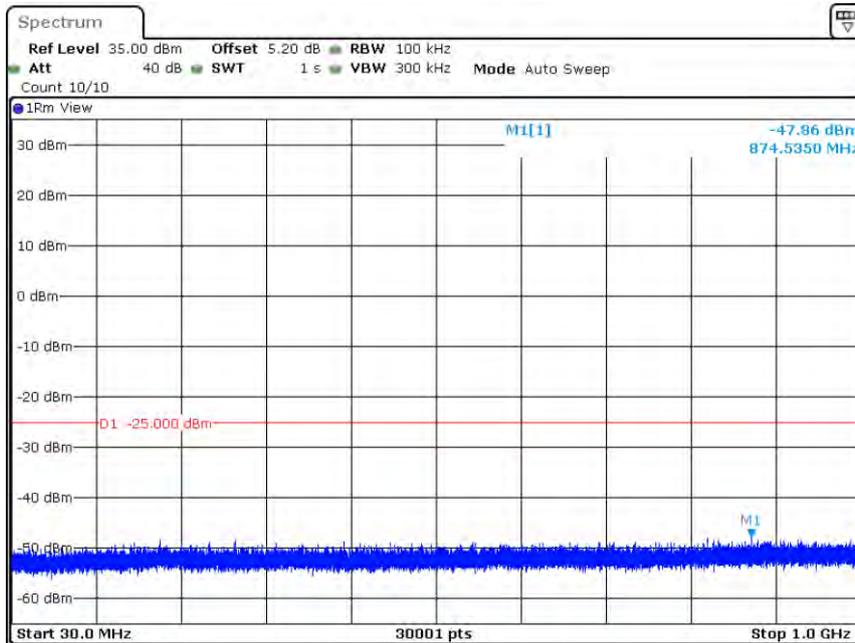
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Band38-20MHz-64QAM-38150-1RB#0-Range2:1000~30000MHz



Date: 5.MAY.2021 09:29:54

Band38-20MHz-16QAM-37850-1RB#0-Range1:30~1000MHz



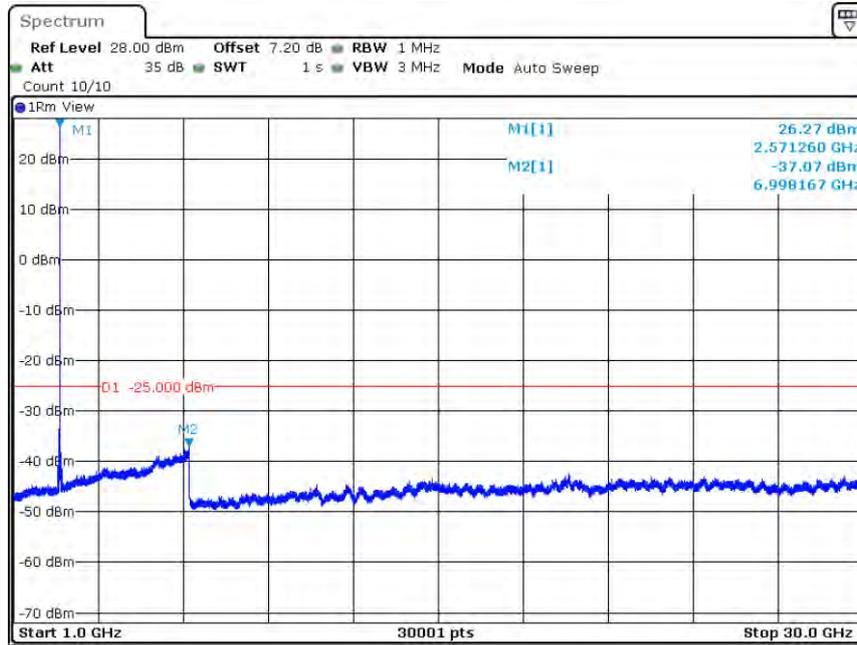
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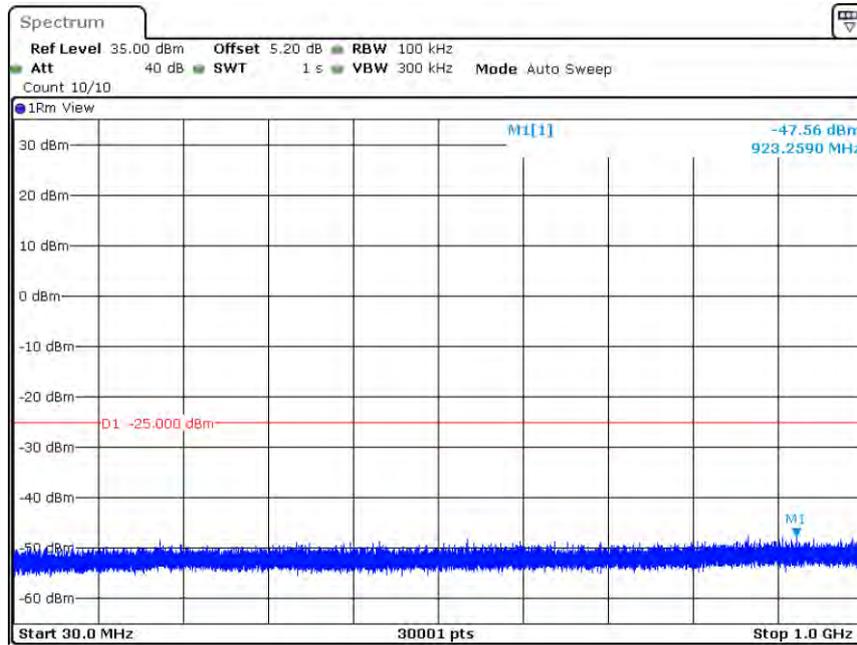
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Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 5.MAY.2021 08:39:37

Band38-20MHz-16QAM-38000-1RB#0-Range1:30~1000MHz



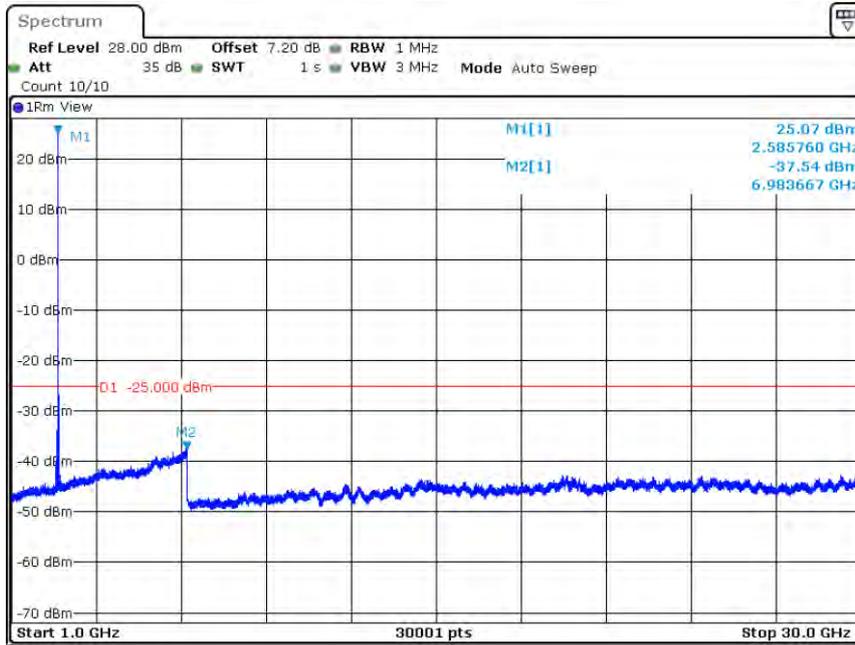
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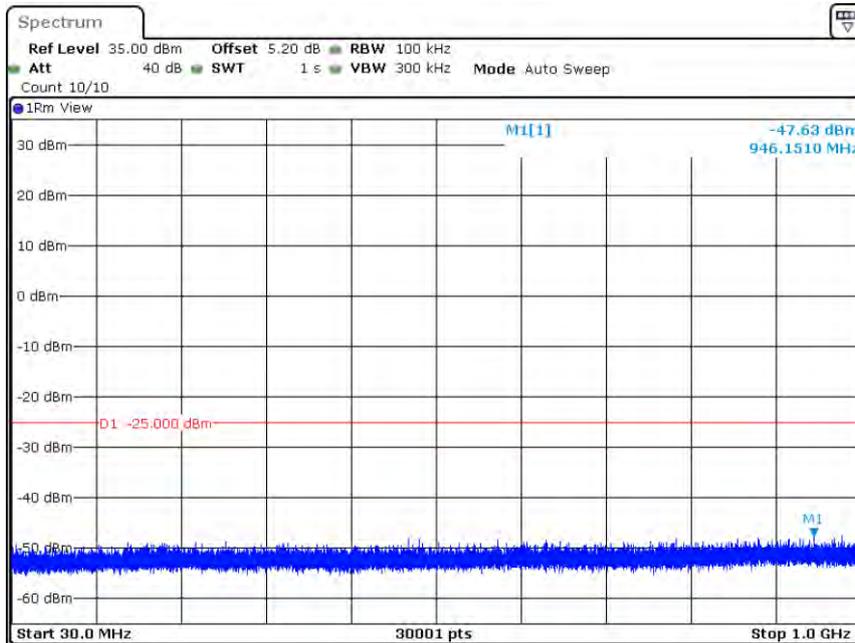
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Band38-20MHz-16QAM-38000-1RB#0-Range2:1000~30000MHz



Date: 5.MAY.2021 08:40:48

Band38-20MHz-16QAM-38150-1RB#0-Range1:30~1000MHz

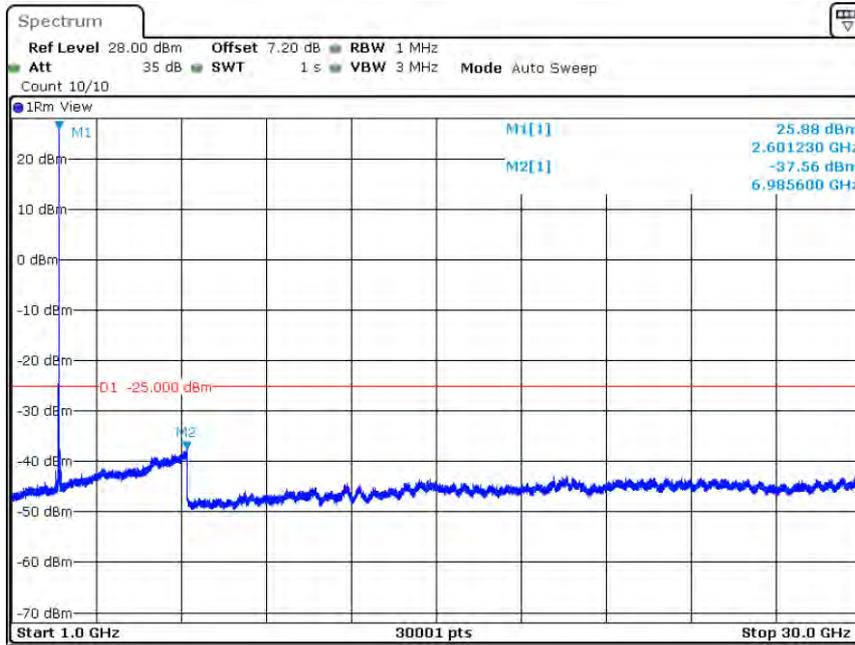


Date: 5.MAY.2021 08:41:43



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Band38-20MHz-16QAM-38150-1RB#0-Range2:1000~30000MHz



Date: 5.MAY.2021 08:41:59



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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE_Band=38 BW=20MHz ANT0

7.1.1. Test Channel = Mid Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.6803 | -73.83 | -57.82 | -25.00 | 32.82 | Horizontal |
| 2 | 235.6537 | -79.94 | -68.34 | -25.00 | 43.34 | Horizontal |
| 3 | 1589.8237 | -74.68 | -43.35 | -25.00 | 18.35 | Horizontal |
| 4 | 5754.7102 | -33.09 | -35.03 | -25.00 | 10.03 | Horizontal |
| 5 | 16408.136 | -59.46 | -43.90 | -25.00 | 18.90 | Horizontal |
| 6 | 17996.399 | -57.76 | -43.05 | -25.00 | 18.05 | Horizontal |



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7.2. Test Band = LTE_Band=38 BW=20MHz ANT0

7.2.1. Test Channel = Mid Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 106.9585 | -80.50 | -65.82 | -25.00 | 40.82 | Vertical |
| 2 | 605.1190 | -80.04 | -63.72 | -25.00 | 38.72 | Vertical |
| 3 | 1711.0889 | -74.56 | -42.75 | -25.00 | 17.75 | Vertical |
| 4 | 4884.0754 | -46.32 | -50.14 | -25.00 | 25.14 | Vertical |
| 5 | 14525.261 | -62.16 | -48.19 | -25.00 | 23.19 | Vertical |
| 6 | 17987.999 | -58.15 | -38.68 | -25.00 | 13.68 | Vertical |



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7.3. Test Band = LTE_Band=38 BW=20MHz ANT0

7.3.1. Test Channel = High Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 43.8396 | -73.64 | -57.68 | -25.00 | 32.68 | Horizontal |
| 2 | 224.0776 | -79.65 | -68.93 | -25.00 | 43.93 | Horizontal |
| 3 | 1636.3295 | -74.40 | -43.42 | -25.00 | 18.42 | Horizontal |
| 4 | 5291.4917 | -57.27 | -55.84 | -25.00 | 30.84 | Horizontal |
| 5 | 16408.736 | -59.25 | -43.71 | -25.00 | 18.71 | Horizontal |
| 6 | 17986.199 | -58.25 | -43.52 | -25.00 | 18.52 | Horizontal |



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7.4. Test Band = LTE_Band=38 BW=20MHz ANT0

7.4.1. Test Channel = High Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.2276 | -73.34 | -67.29 | -25.00 | 42.29 | Vertical |
| 2 | 118.5992 | -80.38 | -65.76 | -25.00 | 40.76 | Vertical |
| 3 | 1711.5889 | -74.54 | -42.75 | -25.00 | 17.75 | Vertical |
| 4 | 5319.6928 | -57.14 | -56.33 | -25.00 | 31.33 | Vertical |
| 5 | 14278.0511 | -62.04 | -48.46 | -25.00 | 23.46 | Vertical |
| 6 | 17984.399 | -57.74 | -38.26 | -25.00 | 13.26 | Vertical |



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7.5. Test Band = LTE_Band=41 BW=20MHz ANT0

7.5.1. Test Channel = Mid Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.4537 | -73.65 | -57.65 | -25.00 | 32.65 | Horizontal |
| 2 | 241.9556 | -78.76 | -67.09 | -25.00 | 42.09 | Horizontal |
| 3 | 1468.8938 | -72.16 | -42.23 | -25.00 | 17.23 | Horizontal |
| 4 | 5319.5773 | -57.10 | -55.78 | -25.00 | 30.78 | Horizontal |
| 5 | 16407.946 | -58.44 | -42.87 | -25.00 | 17.87 | Horizontal |
| 6 | 17992.999 | -57.92 | -43.20 | -25.00 | 18.20 | Horizontal |



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7.6. Test Band = LTE_Band=41 BW=20MHz ANT0

7.6.1. Test Channel = Mid Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 42.9987 | -74.45 | -69.47 | -25.00 | 44.47 | Vertical |
| 2 | 115.8008 | -79.08 | -64.23 | -25.00 | 39.23 | Vertical |
| 3 | 1583.7167 | -72.34 | -41.08 | -25.00 | 16.08 | Vertical |
| 4 | 5441.0814 | -57.26 | -58.40 | -25.00 | 33.40 | Vertical |
| 5 | 14520.384 | -61.65 | -47.77 | -25.00 | 22.77 | Vertical |
| 6 | 17988.999 | -57.65 | -38.18 | -25.00 | 13.18 | Vertical |



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7.7. Test Band = LTE_Band=38 BW=20MHz ANT2

7.7.1. Test Channel = Low Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.3570 | -72.41 | -56.42 | -25.00 | 31.42 | Horizontal |
| 2 | 771.5821 | -80.20 | -61.81 | -25.00 | 36.81 | Horizontal |
| 3 | 1768.3460 | -74.36 | -43.20 | -25.00 | 18.20 | Horizontal |
| 4 | 5301.6921 | -57.35 | -55.77 | -25.00 | 30.77 | Horizontal |
| 5 | 16406.336 | -59.13 | -43.49 | -25.00 | 18.49 | Horizontal |
| 6 | 17991.599 | -58.27 | -43.55 | -25.00 | 18.55 | Horizontal |



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7.8. Test Band = LTE_Band=38 BW=20MHz ANT2

7.8.1. Test Channel = Low Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.6156 | -74.18 | -67.79 | -25.00 | 42.79 | Vertical |
| 2 | 113.4256 | -79.77 | -64.73 | -25.00 | 39.73 | Vertical |
| 3 | 1718.8399 | -74.22 | -42.80 | -25.00 | 17.80 | Vertical |
| 4 | 5301.6921 | -56.91 | -55.85 | -25.00 | 30.85 | Vertical |
| 5 | 14689.667 | -60.87 | -47.23 | -25.00 | 22.23 | Vertical |
| 6 | 17986.199 | -58.12 | -38.65 | -25.00 | 13.65 | Vertical |



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7.9. Test Band = LTE_Band=38 BW=20MHz ANT2

7.9.1. Test Channel = Mid Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.5510 | -72.96 | -56.96 | -25.00 | 31.96 | Horizontal |
| 2 | 581.2554 | -80.05 | -64.03 | -25.00 | 39.03 | Horizontal |
| 3 | 1570.0713 | -74.61 | -43.42 | -25.00 | 18.42 | Horizontal |
| 4 | 5290.2916 | -57.06 | -55.66 | -25.00 | 30.66 | Horizontal |
| 5 | 16404.536 | -58.91 | -43.20 | -25.00 | 18.20 | Horizontal |
| 6 | 17993.399 | -57.89 | -43.17 | -25.00 | 18.17 | Horizontal |



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7.10. Test Band = LTE_Band=38 BW=20MHz ANT2

7.10.1. Test Channel = Mid Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.6803 | -73.45 | -67.00 | -25.00 | 42.00 | Vertical |
| 2 | 104.4363 | -80.11 | -65.95 | -25.00 | 40.95 | Vertical |
| 3 | 1718.5898 | -74.41 | -42.98 | -25.00 | 17.98 | Vertical |
| 4 | 5294.4918 | -57.24 | -56.27 | -25.00 | 31.27 | Vertical |
| 5 | 14690.867 | -60.87 | -47.23 | -25.00 | 22.23 | Vertical |
| 6 | 17988.599 | -58.11 | -38.64 | -25.00 | 13.64 | Vertical |



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7.11. Test Band = LTE_Band=38 BW=20MHz ANT2

7.11.1. Test Channel = High Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 43.9689 | -73.50 | -57.54 | -25.00 | 32.54 | Horizontal |
| 2 | 610.2927 | -79.78 | -63.55 | -25.00 | 38.55 | Horizontal |
| 3 | 1759.8450 | -74.27 | -43.32 | -25.00 | 18.32 | Horizontal |
| 4 | 5295.6918 | -57.73 | -56.21 | -25.00 | 31.21 | Horizontal |
| 5 | 16406.936 | -59.30 | -43.69 | -25.00 | 18.69 | Horizontal |
| 6 | 17981.999 | -57.77 | -43.03 | -25.00 | 18.03 | Horizontal |



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7.12. Test Band = LTE_Band=38 BW=20MHz ANT2

7.12.1. Test Channel = High Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.2276 | -73.39 | -67.34 | -25.00 | 42.34 | Vertical |
| 2 | 115.6244 | -79.68 | -64.82 | -25.00 | 39.82 | Vertical |
| 3 | 1674.8344 | -74.25 | -42.81 | -25.00 | 17.81 | Vertical |
| 4 | 5293.2917 | -57.41 | -56.46 | -25.00 | 31.46 | Vertical |
| 5 | 14681.267 | -61.04 | -47.40 | -25.00 | 22.40 | Vertical |
| 6 | 17987.999 | -58.15 | -38.68 | -25.00 | 13.68 | Vertical |



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7.13. Test Band = LTE_Band=38 BW=20MHz ANT3

7.13.1. Test Channel = Low Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.5510 | -73.65 | -57.65 | -25.00 | 32.65 | Horizontal |
| 2 | 626.6544 | -80.18 | -63.70 | -25.00 | 38.70 | Horizontal |
| 3 | 1581.5727 | -74.65 | -43.41 | -25.00 | 18.41 | Horizontal |
| 4 | 5311.8925 | -57.29 | -55.86 | -25.00 | 30.86 | Horizontal |
| 5 | 16405.136 | -58.85 | -43.16 | -25.00 | 18.16 | Horizontal |
| 6 | 17993.399 | -58.04 | -43.32 | -25.00 | 18.32 | Horizontal |



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7.14. Test Band = LTE_Band=38 BW=20MHz ANT3

7.14.1. Test Channel = Low Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.4863 | -72.82 | -66.54 | -25.00 | 41.54 | Vertical |
| 2 | 110.1920 | -79.84 | -64.55 | -25.00 | 39.55 | Vertical |
| 3 | 1708.5886 | -74.87 | -43.01 | -25.00 | 18.01 | Vertical |
| 4 | 5234.4894 | -56.87 | -57.12 | -25.00 | 32.12 | Vertical |
| 5 | 14684.867 | -61.15 | -47.51 | -25.00 | 22.51 | Vertical |
| 6 | 17989.799 | -57.45 | -37.98 | -25.00 | 12.98 | Vertical |



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7.15. Test Band = LTE_Band=38 BW=20MHz ANT3

7.15.1. Test Channel = Mid Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.4863 | -72.15 | -56.15 | -25.00 | 31.15 | Horizontal |
| 2 | 588.9513 | -79.66 | -63.42 | -25.00 | 38.42 | Horizontal |
| 3 | 1598.5748 | -74.87 | -43.59 | -25.00 | 18.59 | Horizontal |
| 4 | 5293.8918 | -57.18 | -55.70 | -25.00 | 30.70 | Horizontal |
| 5 | 16402.136 | -59.56 | -43.75 | -25.00 | 18.75 | Horizontal |
| 6 | 17981.999 | -58.08 | -43.34 | -25.00 | 18.34 | Horizontal |



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7.16. Test Band = LTE_Band=38 BW=20MHz ANT3

7.16.1. Test Channel = Mid Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.4863 | -74.04 | -67.76 | -25.00 | 42.76 | Vertical |
| 2 | 106.6351 | -80.91 | -66.29 | -25.00 | 41.29 | Vertical |
| 3 | 1679.0849 | -74.34 | -42.78 | -25.00 | 17.78 | Vertical |
| 4 | 5275.8910 | -57.19 | -56.58 | -25.00 | 31.58 | Vertical |
| 5 | 14684.267 | -61.08 | -47.44 | -25.00 | 22.44 | Vertical |
| 6 | 17991.599 | -58.00 | -38.54 | -25.00 | 13.54 | Vertical |



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7.17. Test Band = LTE_Band=38 BW=20MHz ANT3

7.17.1. Test Channel = High Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.0983 | -73.69 | -57.72 | -25.00 | 32.72 | Horizontal |
| 2 | 585.0063 | -80.33 | -64.21 | -25.00 | 39.21 | Horizontal |
| 3 | 1634.0793 | -74.44 | -43.42 | -25.00 | 18.42 | Horizontal |
| 4 | 5305.2922 | -57.44 | -55.91 | -25.00 | 30.91 | Horizontal |
| 5 | 16409.936 | -59.57 | -44.08 | -25.00 | 19.08 | Horizontal |
| 6 | 17996.999 | -57.85 | -43.14 | -25.00 | 18.14 | Horizontal |



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7.18. Test Band = LTE_Band=38 BW=20MHz ANT3

7.18.1. Test Channel = High Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.6156 | -73.74 | -67.35 | -25.00 | 42.35 | Vertical |
| 2 | 110.3214 | -79.59 | -64.31 | -25.00 | 39.31 | Vertical |
| 3 | 1710.0888 | -74.74 | -42.88 | -25.00 | 17.88 | Vertical |
| 4 | 5306.4923 | -57.49 | -56.50 | -25.00 | 31.50 | Vertical |
| 5 | 14715.468 | -60.67 | -47.37 | -25.00 | 22.37 | Vertical |
| 6 | 17997.599 | -57.92 | -38.47 | -25.00 | 13.47 | Vertical |



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7.19. Test Band = LTE_Band=38 BW=20MHz ANT4

7.19.1. Test Channel = Low Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.4863 | -73.14 | -57.14 | -25.00 | 32.14 | Horizontal |
| 2 | 566.5751 | -80.03 | -64.29 | -25.00 | 39.29 | Horizontal |
| 3 | 1597.5747 | -74.68 | -43.39 | -25.00 | 18.39 | Horizontal |
| 4 | 5297.4919 | -57.57 | -56.01 | -25.00 | 31.01 | Horizontal |
| 5 | 16396.735 | -59.58 | -43.82 | -25.00 | 18.82 | Horizontal |
| 6 | 17990.399 | -58.06 | -43.34 | -25.00 | 18.34 | Horizontal |



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7.20. Test Band = LTE_Band=38 BW=20MHz ANT4

7.20.1. Test Channel = Low Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.4863 | -72.41 | -66.13 | -25.00 | 41.13 | Vertical |
| 2 | 112.0028 | -80.46 | -65.31 | -25.00 | 40.31 | Vertical |
| 3 | 1713.8392 | -74.55 | -42.88 | -25.00 | 17.88 | Vertical |
| 4 | 5282.4913 | -57.39 | -56.65 | -25.00 | 31.65 | Vertical |
| 5 | 14516.860 | -61.14 | -47.33 | -25.00 | 22.33 | Vertical |
| 6 | 17993.999 | -57.96 | -38.50 | -25.00 | 13.50 | Vertical |



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7.21. Test Band = LTE_Band=38 BW=20MHz ANT4

7.21.1. Test Channel = Mid Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.6803 | -74.14 | -58.13 | -25.00 | 33.13 | Horizontal |
| 2 | 509.8587 | -80.94 | -66.33 | -25.00 | 41.33 | Horizontal |
| 3 | 1838.8549 | -74.45 | -42.90 | -25.00 | 17.90 | Horizontal |
| 4 | 5317.2927 | -57.21 | -55.86 | -25.00 | 30.86 | Horizontal |
| 5 | 16394.935 | -58.98 | -43.29 | -25.00 | 18.29 | Horizontal |
| 6 | 17990.999 | -58.01 | -43.29 | -25.00 | 18.29 | Horizontal |



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7.22. Test Band = LTE_Band=38 BW=20MHz ANT4

7.22.1. Test Channel = Mid Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.6803 | -74.45 | -68.00 | -25.00 | 43.00 | Vertical |
| 2 | 108.3166 | -80.35 | -65.39 | -25.00 | 40.39 | Vertical |
| 3 | 1715.0894 | -74.36 | -42.75 | -25.00 | 17.75 | Vertical |
| 4 | 5291.4917 | -56.94 | -56.03 | -25.00 | 31.03 | Vertical |
| 5 | 14542.061 | -61.79 | -47.50 | -25.00 | 22.50 | Vertical |
| 6 | 17985.599 | -58.07 | -38.59 | -25.00 | 13.59 | Vertical |



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7.23. Test Band = LTE_Band=38 BW=20MHz ANT4

7.23.1. Test Channel = High Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 43.9689 | -73.74 | -57.78 | -25.00 | 32.78 | Horizontal |
| 2 | 565.1523 | -80.15 | -64.38 | -25.00 | 39.38 | Horizontal |
| 3 | 1838.6048 | -74.44 | -42.89 | -25.00 | 17.89 | Horizontal |
| 4 | 5284.2914 | -57.04 | -55.77 | -25.00 | 30.77 | Horizontal |
| 5 | 16407.536 | -59.19 | -43.60 | -25.00 | 18.60 | Horizontal |
| 6 | 17987.999 | -57.57 | -42.84 | -25.00 | 17.84 | Horizontal |



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7.24. Test Band = LTE_Band=38 BW=20MHz ANT4

7.24.1. Test Channel = High Channel

| Suspected Data List | | | | | | |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.4863 | -73.52 | -67.24 | -25.00 | 42.24 | Vertical |
| 2 | 117.6292 | -79.91 | -65.21 | -25.00 | 40.21 | Vertical |
| 3 | 1599.0749 | -74.73 | -43.47 | -25.00 | 18.47 | Vertical |
| 4 | 5294.4918 | -57.06 | -56.09 | -25.00 | 31.09 | Vertical |
| 5 | 14524.061 | -61.41 | -47.46 | -25.00 | 22.46 | Vertical |
| 6 | 17987.399 | -58.10 | -38.63 | -25.00 | 13.63 | Vertical |

Remark:

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



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8. Frequency Stability

8.1. Frequency Vs Voltage

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | VL | NT | 3.20 | 0.001240 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | VN | NT | 0.70 | 0.000271 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | VH | NT | 0.80 | 0.000310 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | VL | NT | 7.10 | 0.002736 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | VN | NT | 2.30 | 0.000886 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | VH | NT | 5.60 | 0.002158 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | VL | NT | 4.30 | 0.001648 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | VN | NT | 3.80 | 0.001456 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | VH | NT | 2.90 | 0.001111 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | VL | NT | 2.80 | 0.001085 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | VN | NT | 3.30 | 0.001279 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | VH | NT | 4.60 | 0.001783 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | VL | NT | 6.10 | 0.002351 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | VN | NT | 2.70 | 0.001040 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | VH | NT | 4.20 | 0.001618 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | VL | NT | 6.80 | 0.002605 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | VN | NT | 5.70 | 0.002184 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | VH | NT | 5.90 | 0.002261 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | VL | NT | 0.90 | 0.000349 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | VN | NT | 2.80 | 0.001085 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | VH | NT | 0.80 | 0.000310 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | VL | NT | 8.00 | 0.003083 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | VN | NT | 2.00 | 0.000771 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | VH | NT | 6.40 | 0.002466 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | VL | NT | 6.80 | 0.002605 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | VN | NT | 3.40 | 0.001303 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | VH | NT | 7.90 | 0.003027 | ±2.5 | PASS |



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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



8.2. Frequency Vs Temperature

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | NV | -30 | 3.90 | 0.001512 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | NV | -20 | 5.00 | 0.001938 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | NV | -10 | 2.40 | 0.000930 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | NV | 0 | 2.50 | 0.000969 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | NV | 10 | 5.50 | 0.002132 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | NV | 20 | 3.10 | 0.001202 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | NV | 30 | 0.80 | 0.000310 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | NV | 40 | 5.30 | 0.002054 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | NV | 50 | 4.00 | 0.001550 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | -30 | 4.50 | 0.001734 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | -20 | 1.90 | 0.000732 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | -10 | 0.50 | 0.000193 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | 0 | 2.00 | 0.000771 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | 10 | 0.20 | 0.000077 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | 20 | 2.70 | 0.001040 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | 30 | 5.50 | 0.002119 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | 40 | 6.30 | 0.002428 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | NV | 50 | 2.60 | 0.001002 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | NV | -30 | 5.00 | 0.001916 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | NV | -20 | 5.00 | 0.001916 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | NV | -10 | 3.90 | 0.001494 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | NV | 0 | 2.70 | 0.001034 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | NV | 10 | 8.90 | 0.003410 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | NV | 20 | 1.90 | 0.000728 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | NV | 30 | 4.80 | 0.001839 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | NV | 40 | 7.30 | 0.002797 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | NV | 50 | 2.60 | 0.000996 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | -30 | 3.50 | 0.001357 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | -20 | 4.60 | 0.001783 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | -10 | 0.50 | 0.000194 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | 0 | 4.70 | 0.001822 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | 10 | 2.10 | 0.000814 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | 20 | 6.90 | 0.002674 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | 30 | 3.70 | 0.001434 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | 40 | -1.70 | -0.000659 | ±2.5 | PASS |



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| | | | | | | | | | | |
|--------|-------|-------|-------|---------|----|-----|-------|-----------|------|------|
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | 50 | -2.40 | -0.000930 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | -30 | 6.40 | 0.002466 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | -20 | 4.70 | 0.001811 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | -10 | 2.30 | 0.000886 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | 0 | 2.20 | 0.000848 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | 10 | 4.40 | 0.001696 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | 20 | 3.20 | 0.001233 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | 30 | 2.80 | 0.001079 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | 40 | 4.90 | 0.001888 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | 50 | 6.70 | 0.002582 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | -30 | 3.80 | 0.001456 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | -20 | 3.00 | 0.001149 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | -10 | 4.10 | 0.001571 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | 0 | 4.60 | 0.001762 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | 10 | 9.10 | 0.003487 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | 20 | 2.90 | 0.001111 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | 30 | 1.00 | 0.000383 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | 40 | 7.70 | 0.002950 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | 50 | 5.20 | 0.001992 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | -30 | -1.90 | -0.000736 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | -20 | 0.10 | 0.000039 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | -10 | 4.40 | 0.001705 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | 0 | 4.00 | 0.001550 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | 10 | 2.20 | 0.000853 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | 20 | 5.00 | 0.001938 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | 30 | 3.20 | 0.001240 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | 40 | 4.30 | 0.001667 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | 50 | 1.90 | 0.000736 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | -30 | 3.70 | 0.001426 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | -20 | 5.80 | 0.002235 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | -10 | 1.70 | 0.000655 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | 0 | 5.50 | 0.002119 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | 10 | 5.10 | 0.001965 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | 20 | 4.20 | 0.001618 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | 30 | 3.50 | 0.001349 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | 40 | 4.80 | 0.001850 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | 50 | 4.80 | 0.001850 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | -30 | 2.80 | 0.001073 | ±2.5 | PASS |



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| | | | | | | | | | | |
|--------|-------|-------|-------|---------|----|-----|------|----------|------|------|
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | -20 | 4.90 | 0.001877 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | -10 | 4.30 | 0.001648 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | 0 | 8.90 | 0.003410 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | 10 | 6.00 | 0.002299 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | 20 | 7.70 | 0.002950 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | 30 | 2.90 | 0.001111 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | 40 | 5.30 | 0.002031 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | 50 | 7.90 | 0.003027 | ±2.5 | PASS |



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