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# Appendix B.37

## NR Band n30



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## Effective (Isotropic) Radiated Power Output Data for SA

### Test Result

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config       | Result (dBm/5MHz) | EIRP (dBm/5MHz) | Limit (dBm/5MHz) | Verdict |
|------|-----|-----------|-------------|---------|-----------------|-------------------|-----------------|------------------|---------|
| N30  | 30  | 5         | DFT-QPSK    | L       | Inner_1RB_Left  | 22.16             | 19.16           | 23.98            | PASS    |
| N30  | 30  | 5         | DFT-16QAM   | L       | Inner_1RB_Left  | 21.44             | 18.44           | 23.98            | PASS    |
| N30  | 30  | 5         | DFT-QPSK    | M       | Inner_1RB_Left  | 22.32             | 19.32           | 23.98            | PASS    |
| N30  | 30  | 5         | DFT-16QAM   | M       | Inner_1RB_Left  | 21.25             | 18.25           | 23.98            | PASS    |
| N30  | 30  | 5         | DFT-QPSK    | H       | Inner_1RB_Left  | 22.29             | 19.29           | 23.98            | PASS    |
| N30  | 30  | 5         | DFT-16QAM   | H       | Inner_1RB_Left  | 21.41             | 18.41           | 23.98            | PASS    |
| N30  | 30  | 10        | DFT-PI2BPSK | L       | Inner_1RB_Left  | 22.24             | 19.24           | 23.98            | PASS    |
| N30  | 30  | 10        | DFT-PI2BPSK | L       | Inner_1RB_Right | 22.26             | 19.26           | 23.98            | PASS    |
| N30  | 30  | 10        | DFT-PI2BPSK | L       | Outer_Full      | 21.69             | 18.69           | 23.98            | PASS    |
| N30  | 30  | 10        | DFT-QPSK    | L       | Inner_1RB_Left  | 22.24             | 19.24           | 23.98            | PASS    |
| N30  | 30  | 10        | DFT-QPSK    | L       | Inner_1RB_Right | 22.18             | 19.18           | 23.98            | PASS    |
| N30  | 30  | 10        | DFT-QPSK    | L       | Outer_Full      | 21.18             | 18.18           | 23.98            | PASS    |
| N30  | 30  | 10        | DFT-16QAM   | L       | Inner_1RB_Left  | 21.32             | 18.32           | 23.98            | PASS    |
| N30  | 30  | 10        | DFT-16QAM   | L       | Inner_1RB_Right | 21.26             | 18.26           | 23.98            | PASS    |
| N30  | 30  | 10        | DFT-16QAM   | L       | Outer_Full      | 20.16             | 17.16           | 23.98            | PASS    |
| N30  | 30  | 10        | DFT-64QAM   | L       | Inner_1RB_Left  | 19.98             | 16.98           | 23.98            | PASS    |



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|     |    |    |                 |   |                     |       |       |       |          |
|-----|----|----|-----------------|---|---------------------|-------|-------|-------|----------|
| N30 | 30 | 10 | DFT-64QAM       | L | Inner_1RB_Rig<br>ht | 19.95 | 16.95 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-64QAM       | L | Outer_Full          | 19.71 | 16.71 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-<br>256QAM  | L | Inner_1RB_Left      | 17.17 | 14.17 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-<br>256QAM  | L | Inner_1RB_Rig<br>ht | 17.18 | 14.18 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-<br>256QAM  | L | Outer_Full          | 17.67 | 14.67 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-<br>PI2BPSK | M | Inner_1RB_Left      | 22.31 | 19.31 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-<br>PI2BPSK | M | Inner_1RB_Rig<br>ht | 22.31 | 19.31 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-<br>PI2BPSK | M | Outer_Full          | 21.69 | 18.69 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-QPSK        | M | Inner_1RB_Left      | 22.23 | 19.23 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-QPSK        | M | Inner_1RB_Rig<br>ht | 22.19 | 19.19 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-QPSK        | M | Outer_Full          | 21.15 | 18.15 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-16QAM       | M | Inner_1RB_Left      | 21.26 | 18.26 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-16QAM       | M | Inner_1RB_Rig<br>ht | 21.31 | 18.31 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-16QAM       | M | Outer_Full          | 20.17 | 17.17 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-64QAM       | M | Inner_1RB_Left      | 19.99 | 16.99 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-64QAM       | M | Inner_1RB_Rig<br>ht | 19.99 | 16.99 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-64QAM       | M | Outer_Full          | 19.76 | 16.76 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-<br>256QAM  | M | Inner_1RB_Left      | 17.16 | 14.16 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-<br>256QAM  | M | Inner_1RB_Rig<br>ht | 17.15 | 14.15 | 23.98 | PAS<br>S |



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| N30 | 30 | 10 | DFT-256QAM  | M | Outer_Full      | 17.64 | 14.64 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-PI2BPSK | H | Inner_1RB_Left  | 22.3  | 19.3  | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-PI2BPSK | H | Inner_1RB_Right | 22.29 | 19.29 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-PI2BPSK | H | Outer_Full      | 21.69 | 18.69 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-QPSK    | H | Inner_1RB_Left  | 22.19 | 19.19 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-QPSK    | H | Inner_1RB_Right | 22.18 | 19.18 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-QPSK    | H | Outer_Full      | 21.17 | 18.17 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-16QAM   | H | Inner_1RB_Left  | 21.3  | 18.3  | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-16QAM   | H | Inner_1RB_Right | 21.28 | 18.28 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-16QAM   | H | Outer_Full      | 20.19 | 17.19 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-64QAM   | H | Inner_1RB_Left  | 19.95 | 16.95 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-64QAM   | H | Inner_1RB_Right | 19.94 | 16.94 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-64QAM   | H | Outer_Full      | 19.74 | 16.74 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-256QAM  | H | Inner_1RB_Left  | 17.11 | 14.11 | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-256QAM  | H | Inner_1RB_Right | 17.2  | 14.2  | 23.98 | PAS<br>S |
| N30 | 30 | 10 | DFT-256QAM  | H | Outer_Full      | 17.68 | 14.68 | 23.98 | PAS<br>S |



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## Power Spectral Density

### Test Result

| Band | SCS | Bandwidth | Modulation      | Channel | RB Config       | Result<br>(dBm/5MHz) | EIRP<br>(dBm/5MHz) | Limit<br>(dBm/5MHz) | Verdict |
|------|-----|-----------|-----------------|---------|-----------------|----------------------|--------------------|---------------------|---------|
| N30  | 15  | 5         | DFT-<br>PI2BPSK | L       | Inner_1RB_Left  | 22.03                | 19.03              | 23.98               | PASS    |
| N30  | 15  | 5         | DFT-<br>PI2BPSK | L       | Inner_1RB_Right | 21.45                | 18.45              | 23.98               | PASS    |
| N30  | 15  | 5         | DFT-<br>PI2BPSK | L       | Outer_Full      | 20.2                 | 17.2               | 23.98               | PASS    |
| N30  | 15  | 5         | DFT-<br>PI2BPSK | M       | Inner_1RB_Left  | 21.56                | 18.56              | 23.98               | PASS    |
| N30  | 15  | 5         | DFT-<br>PI2BPSK | M       | Inner_1RB_Right | 21.67                | 18.67              | 23.98               | PASS    |
| N30  | 15  | 5         | DFT-<br>PI2BPSK | M       | Outer_Full      | 20.11                | 17.11              | 23.98               | PASS    |
| N30  | 15  | 5         | DFT-<br>PI2BPSK | H       | Inner_1RB_Left  | 21.5                 | 18.5               | 23.98               | PASS    |
| N30  | 15  | 5         | DFT-<br>PI2BPSK | H       | Inner_1RB_Right | 22.13                | 19.13              | 23.98               | PASS    |
| N30  | 15  | 5         | DFT-<br>PI2BPSK | H       | Outer_Full      | 20.39                | 17.39              | 23.98               | PASS    |
| N30  | 15  | 10        | DFT-<br>PI2BPSK | L       | Inner_1RB_Left  | 21.78                | 18.78              | 23.98               | PASS    |
| N30  | 15  | 10        | DFT-<br>PI2BPSK | L       | Inner_1RB_Right | 22.27                | 19.27              | 23.98               | PASS    |
| N30  | 15  | 10        | DFT-<br>PI2BPSK | L       | Outer_Full      | 18.82                | 15.82              | 23.98               | PASS    |
| N30  | 15  | 10        | DFT-<br>PI2BPSK | M       | Inner_1RB_Left  | 21.32                | 18.32              | 23.98               | PASS    |
| N30  | 15  | 10        | DFT-<br>PI2BPSK | M       | Inner_1RB_Right | 21.95                | 18.95              | 23.98               | PASS    |
| N30  | 15  | 10        | DFT-<br>PI2BPSK | M       | Outer_Full      | 18.53                | 15.53              | 23.98               | PASS    |
| N30  | 15  | 10        | DFT-            | H       | Inner_1RB_Left  | 21.02                | 18.02              | 23.98               | PASS    |



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|     |    |    | PI2BPSK         |   |                 |       |       |       |      |
| N30 | 15 | 10 | DFT-<br>PI2BPSK | H | Inner_1RB_Right | 21.79 | 18.79 | 23.98 | PASS |
| N30 | 15 | 10 | DFT-<br>PI2BPSK | H | Outer_Full      | 18.45 | 15.45 | 23.98 | PASS |



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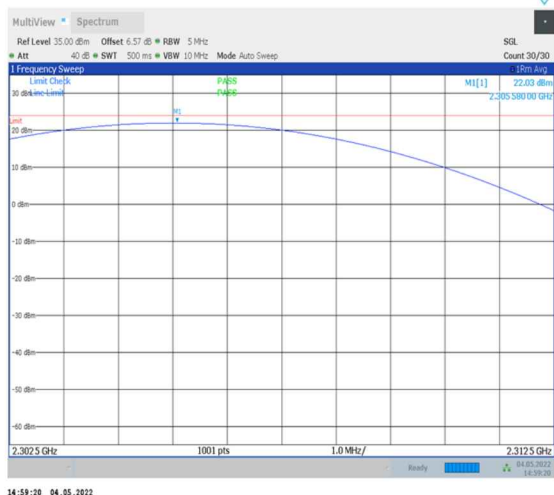
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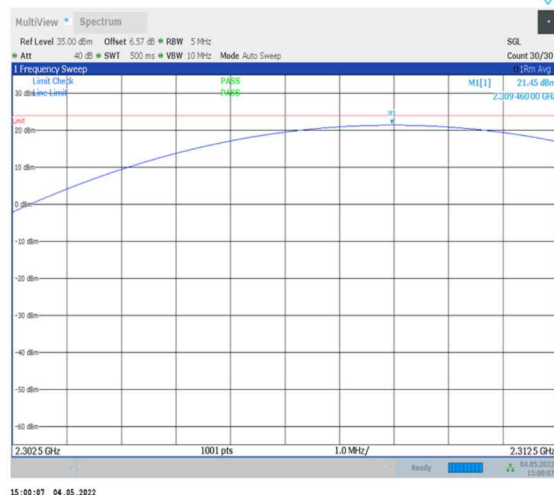
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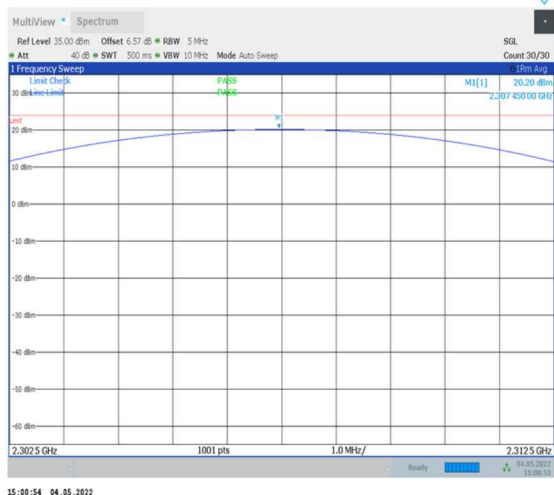
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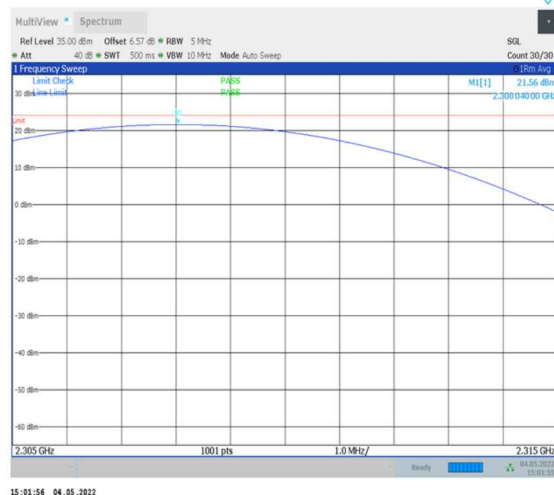
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23.98-PASS



1-N30-PC3-15-5-L-2-DFT-PI2BPSK-  
Inner\_1RB\_Right-1@23-2302.5-2312.5-Ant0-21.45-  
23.98-PASS



1-N30-PC3-15-5-L-3-DFT-PI2BPSK-Outer\_Full-  
25@0-2302.5-2312.5-Ant0-20.20-23.98-PASS



1-N30-PC3-15-5-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-  
1@1-2305-2315-Ant0-21.56-23.98-PASS



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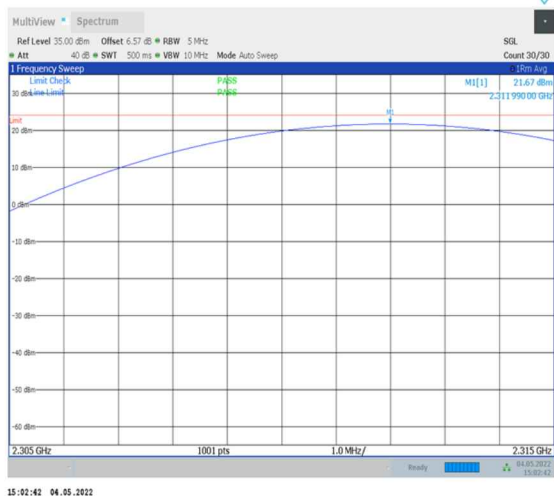
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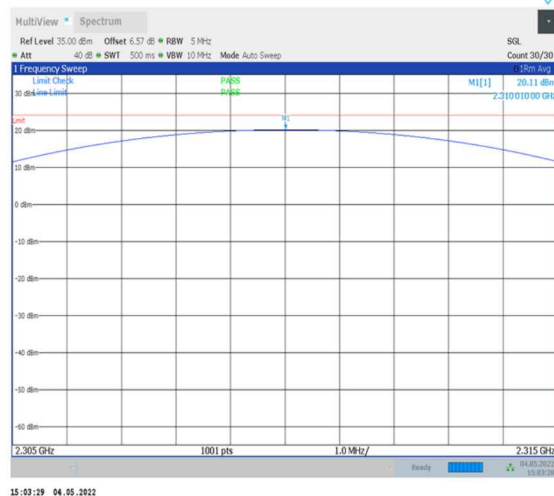
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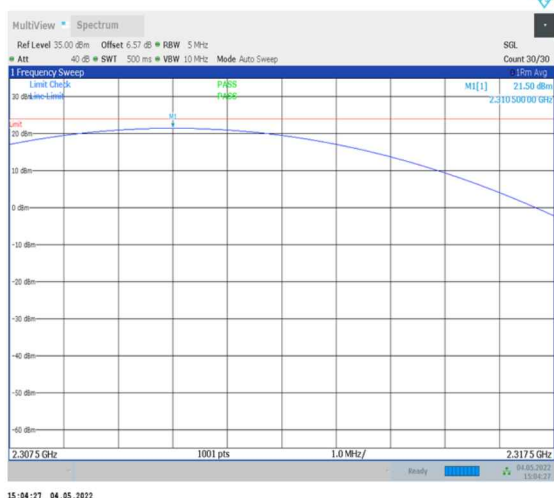
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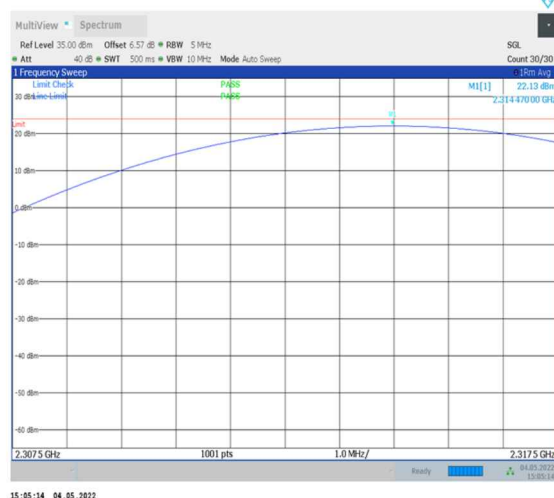
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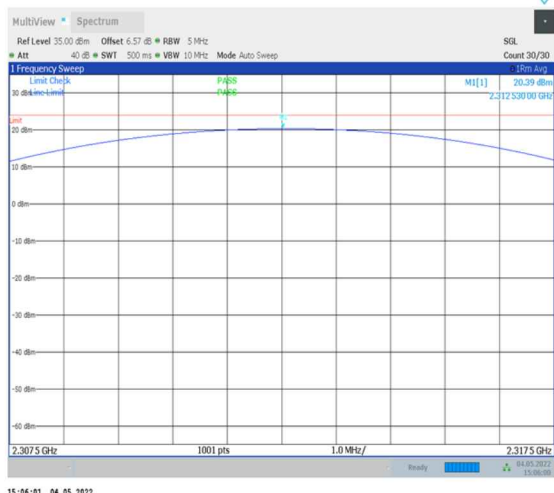
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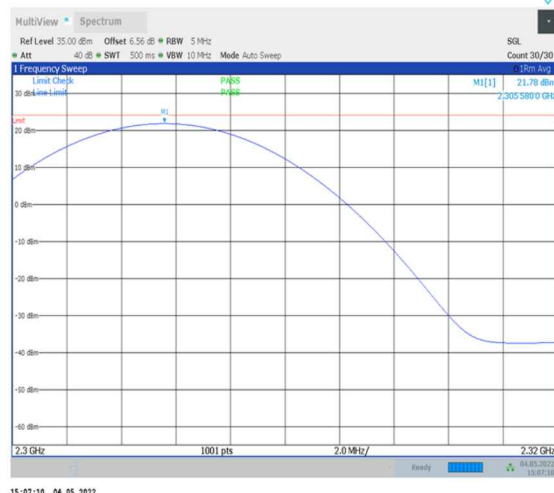
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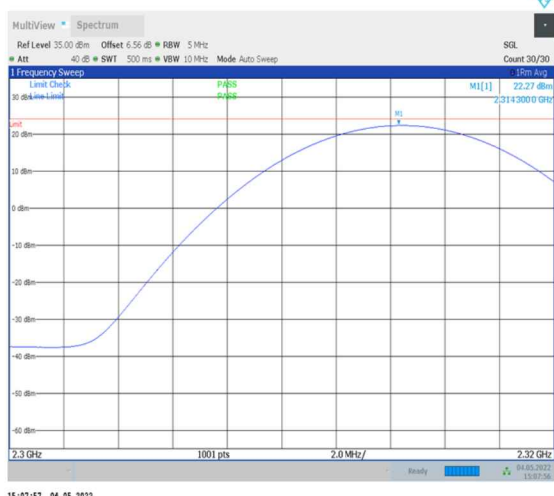
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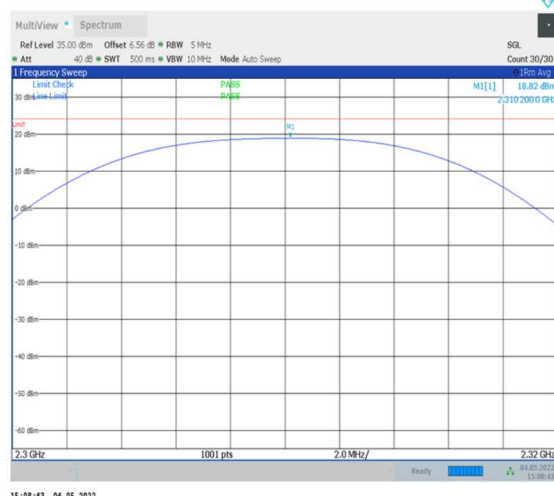
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1-N30-PC3-15-10-L-3-DFT-PI2BPSK-Outter\_Full-50@0-2300-2320-Ant0-18.82-23.98-PASS



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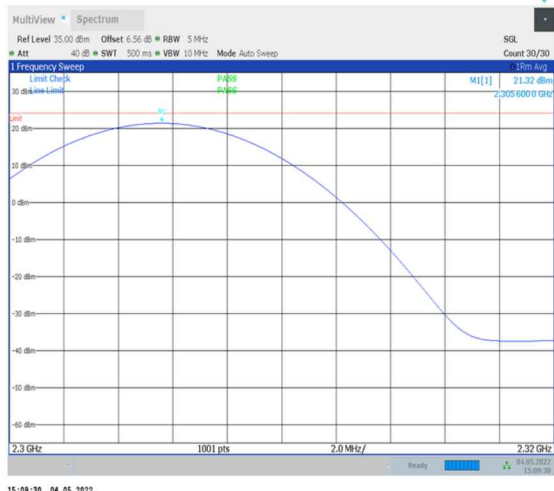
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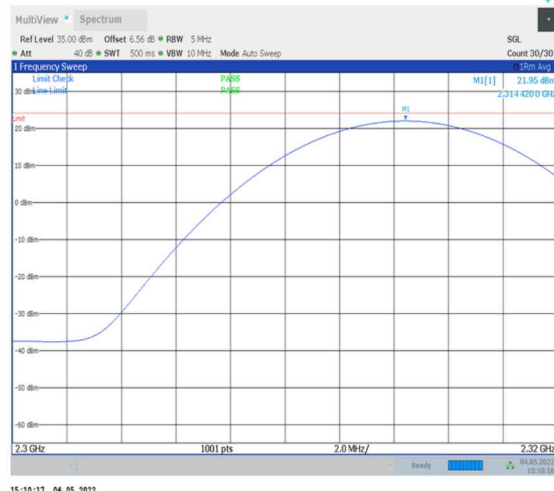
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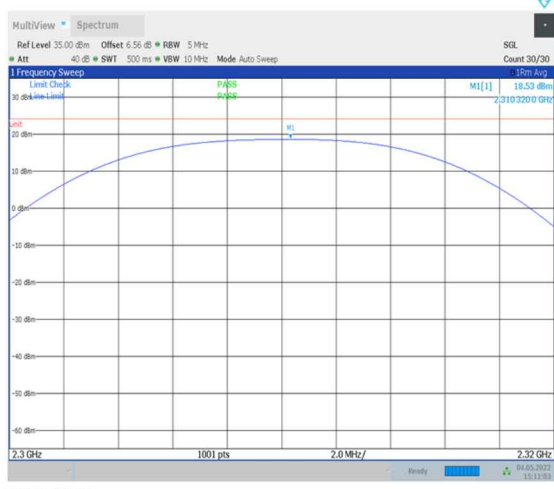
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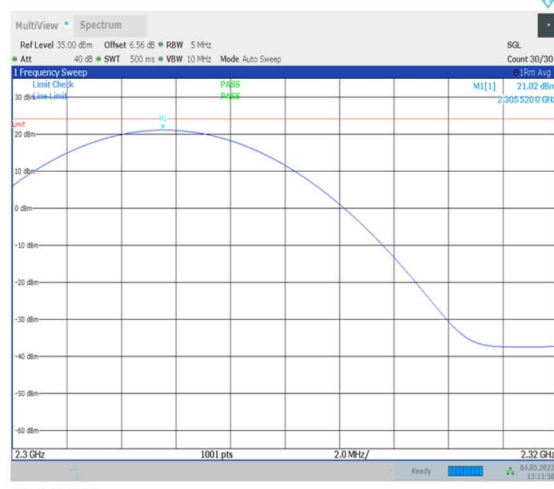
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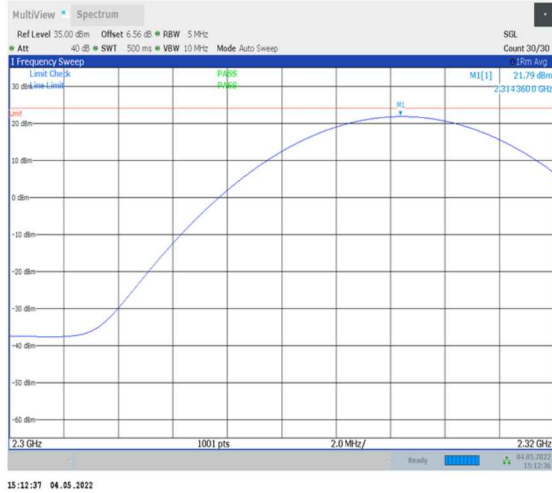
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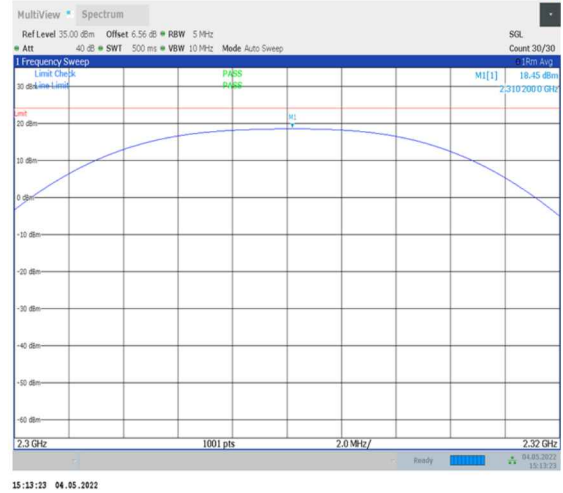
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## Peak-to-Average Ratio for SA

### Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config  | DutyCycle | Factor | Result | Limit | Verdict |
|------|-----|-----------|------------|---------|------------|-----------|--------|--------|-------|---------|
| N30  | 15  | 10        | DFT-256QAM | L       | Outer_Full | 100%      | 0.00   | 8.12   | ≤13   | PASS    |
| N30  | 15  | 10        | CP-256QAM  | L       | Outer_Full | 100%      | 0.00   | 9.30   | ≤13   | PASS    |
| N30  | 15  | 10        | DFT-256QAM | M       | Outer_Full | 100%      | 0.00   | 8.10   | ≤13   | PASS    |
| N30  | 15  | 10        | CP-256QAM  | M       | Outer_Full | 100%      | 0.00   | 9.36   | ≤13   | PASS    |
| N30  | 15  | 10        | DFT-256QAM | H       | Outer_Full | 100%      | 0.00   | 8.11   | ≤13   | PASS    |
| N30  | 15  | 10        | CP-256QAM  | H       | Outer_Full | 100%      | 0.00   | 9.36   | ≤13   | PASS    |



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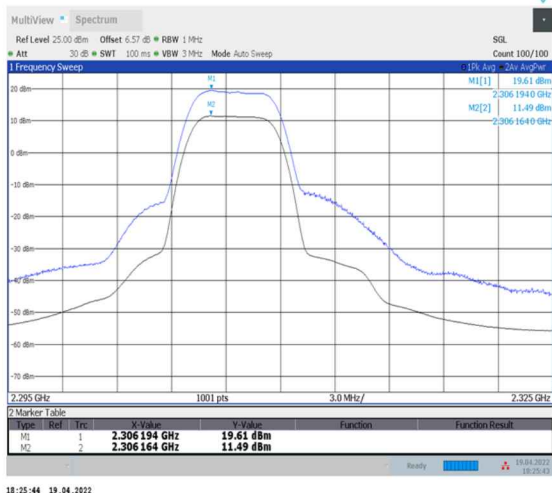
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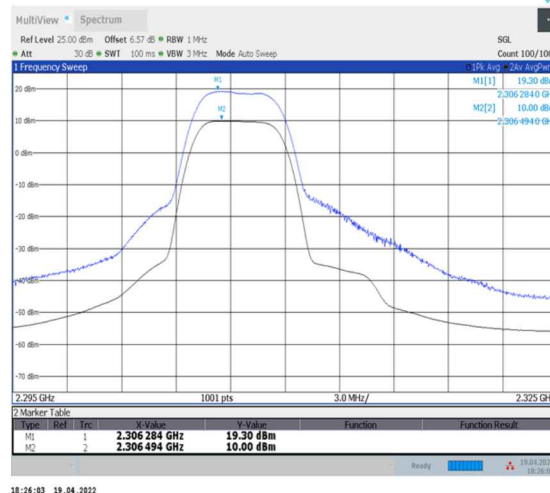
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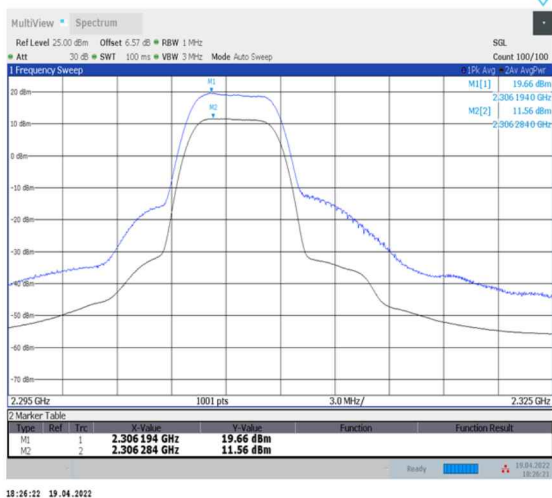
### Test Graphs



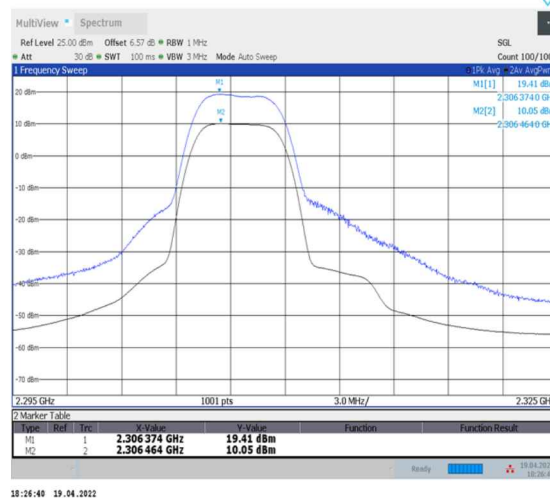
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Ant0-9.30-100%-0.00-9.30-PASS-≤13



1-N30--15-10-M-1-DFT-256QAM-Outer\_Full-24@0-  
Ant0-8.10-100%-0.00-8.10-PASS-≤13



1-N30--15-10-M-2-CP-256QAM-Outer\_Full-24@0-  
Ant0-9.36-100%-0.00-9.36-PASS-≤13



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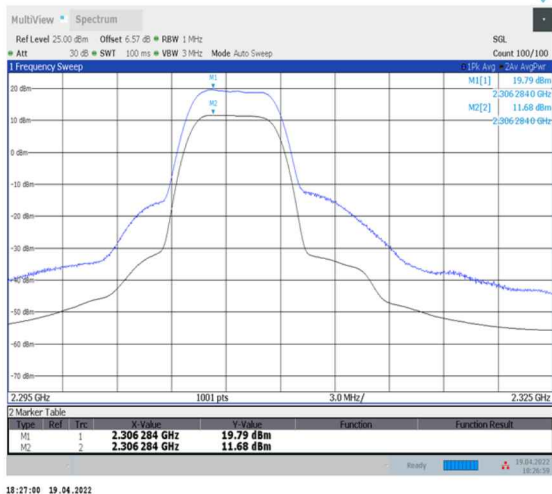
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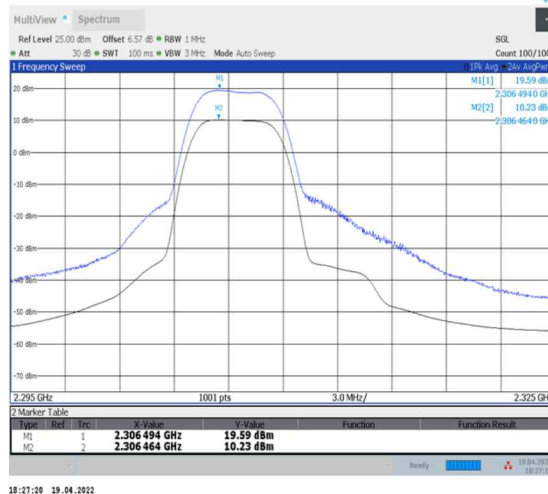
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Ant0-8.11-100%-0.00-8.11-PASS-≤13



1-N30--15-10-H-2-CP-256QAM-Outer\_Full-24@0-  
Ant0-9.36-100%-0.00-9.36-PASS-≤13



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## 26dB Bandwidth and Occupied Bandwidth for SA

### Test Result

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config  | Result (99%) | Result (26dB) | Verdict |
|------|-----|-----------|-------------|---------|------------|--------------|---------------|---------|
| N30  | 15  | 5         | DFT-QPSK    | L       | Outer_Full | 4.495        | 5.170         | PASS    |
| N30  | 15  | 5         | DFT-PI2BPSK | L       | Outer_Full | 4.475        | 5.030         | PASS    |
| N30  | 15  | 5         | DFT-16QAM   | L       | Outer_Full | 4.475        | 5.020         | PASS    |
| N30  | 15  | 5         | DFT-64QAM   | L       | Outer_Full | 4.503        | 5.070         | PASS    |
| N30  | 15  | 5         | DFT-256QAM  | L       | Outer_Full | 4.473        | 5.050         | PASS    |
| N30  | 15  | 5         | CP-QPSK     | L       | Outer_Full | 4.472        | 5.100         | PASS    |
| N30  | 15  | 5         | CP-16QAM    | L       | Outer_Full | 4.463        | 5.050         | PASS    |
| N30  | 15  | 5         | CP-64QAM    | L       | Outer_Full | 4.476        | 5.120         | PASS    |
| N30  | 15  | 5         | CP-256QAM   | L       | Outer_Full | 4.483        | 5.110         | PASS    |
| N30  | 15  | 5         | DFT-QPSK    | M       | Outer_Full | 4.491        | 5.160         | PASS    |
| N30  | 15  | 5         | DFT-PI2BPSK | M       | Outer_Full | 4.463        | 5.060         | PASS    |
| N30  | 15  | 5         | DFT-16QAM   | M       | Outer_Full | 4.461        | 4.880         | PASS    |
| N30  | 15  | 5         | DFT-64QAM   | M       | Outer_Full | 4.473        | 4.990         | PASS    |
| N30  | 15  | 5         | DFT-256QAM  | M       | Outer_Full | 4.473        | 5.020         | PASS    |
| N30  | 15  | 5         | CP-QPSK     | M       | Outer_Full | 4.464        | 4.930         | PASS    |
| N30  | 15  | 5         | CP-16QAM    | M       | Outer_Full | 4.485        | 5.150         | PASS    |
| N30  | 15  | 5         | CP-64QAM    | M       | Outer_Full | 4.474        | 4.990         | PASS    |
| N30  | 15  | 5         | CP-256QAM   | M       | Outer_Full | 4.471        | 4.880         | PASS    |
| N30  | 15  | 5         | DFT-QPSK    | H       | Outer_Full | 4.488        | 5.130         | PASS    |
| N30  | 15  | 5         | DFT-PI2BPSK | H       | Outer_Full | 4.457        | 4.950         | PASS    |
| N30  | 15  | 5         | DFT-16QAM   | H       | Outer_Full | 4.484        | 5.090         | PASS    |
| N30  | 15  | 5         | DFT-64QAM   | H       | Outer_Full | 4.481        | 5.080         | PASS    |
| N30  | 15  | 5         | DFT-256QAM  | H       | Outer_Full | 4.477        | 5.160         | PASS    |
| N30  | 15  | 5         | CP-QPSK     | H       | Outer_Full | 4.470        | 5.050         | PASS    |
| N30  | 15  | 5         | CP-16QAM    | H       | Outer_Full | 4.482        | 5.100         | PASS    |
| N30  | 15  | 5         | CP-64QAM    | H       | Outer_Full | 4.485        | 5.060         | PASS    |
| N30  | 15  | 5         | CP-256QAM   | H       | Outer_Full | 4.469        | 5.070         | PASS    |
| N30  | 15  | 10        | DFT-QPSK    | L       | Outer_Full | 8.922        | 9.680         | PASS    |
| N30  | 15  | 10        | DFT-PI2BPSK | L       | Outer_Full | 8.937        | 9.860         | PASS    |
| N30  | 15  | 10        | DFT-16QAM   | L       | Outer_Full | 8.958        | 9.700         | PASS    |



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