

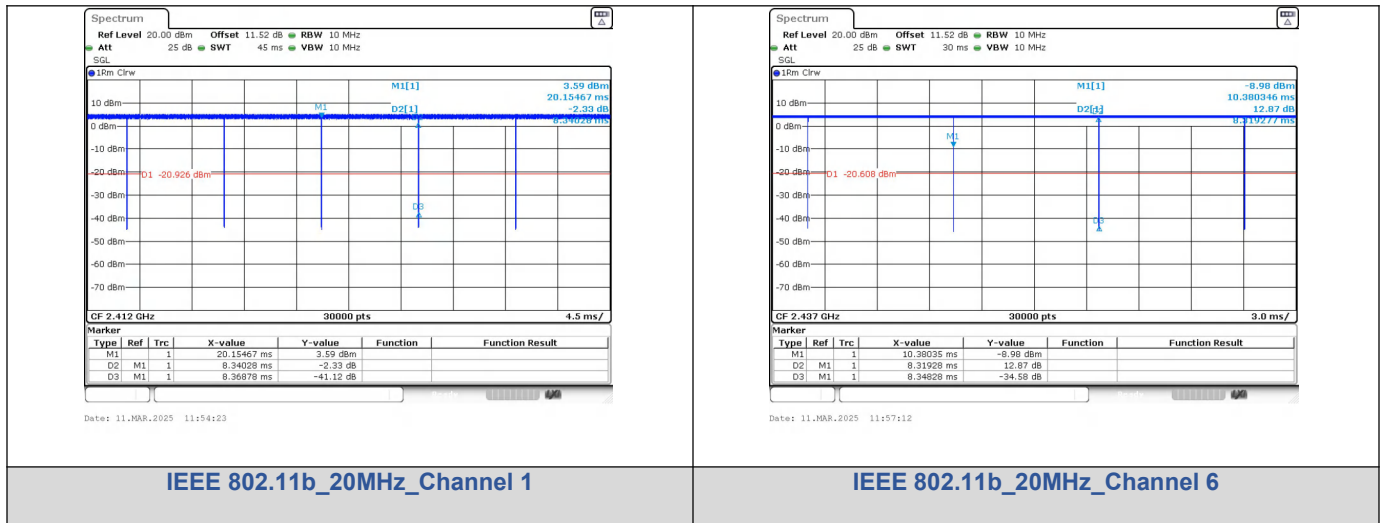
# Appendix Report

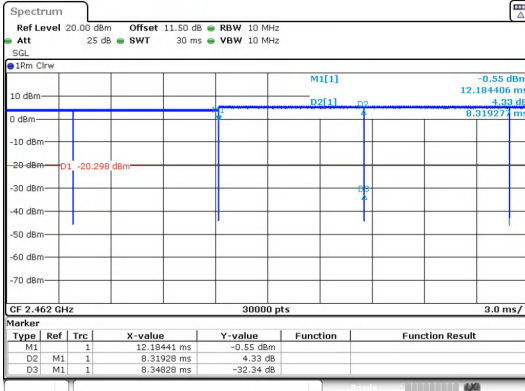
|                |                  |
|----------------|------------------|
| Report No.:    | CISRR25030806604 |
| Test Engineer: | Mark Fu          |
| Supervised by: | Rory Huang       |

## Test Result

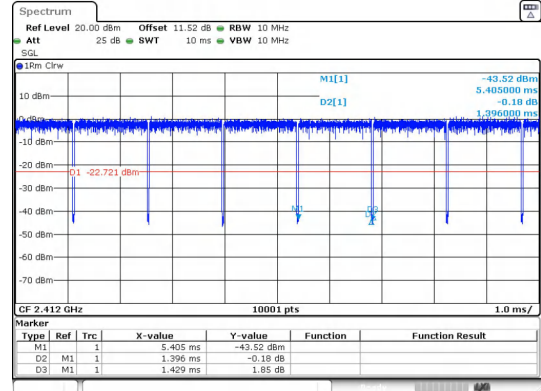
| Mode            | Data rates | Channel | Antenna | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle (linear) | Duty Cycle Factor (dB) | 1/T    |
|-----------------|------------|---------|---------|--------------|-------------|----------------|---------------------|------------------------|--------|
| IEEE 802.11b    | 1          | 1       | 1       | 8.340        | 8.369       | 99.66          | 0.9966              | 0.0148                 | 0.1199 |
|                 |            | 6       |         | 8.319        | 8.348       | 99.65          | 0.9965              | 0.0152                 | 0.1202 |
|                 |            | 11      |         | 8.319        | 8.348       | 99.65          | 0.9965              | 0.0152                 | 0.1202 |
| IEEE 802.11g    |            | 1       |         | 1.396        | 1.429       | 97.69          | 0.9769              | 0.1015                 | 0.7163 |
|                 |            | 6       |         | 1.396        | 1.429       | 97.69          | 0.9769              | 0.1015                 | 0.7163 |
|                 |            | 11      |         | 1.396        | 1.429       | 97.69          | 0.9769              | 0.1015                 | 0.7163 |
| IEEE 802.11n_20 | MCS 0      | 1       |         | 1.293        | 1.327       | 97.44          | 0.9744              | 0.1126                 | 0.7734 |
|                 |            | 6       |         | 1.304        | 1.337       | 97.53          | 0.9753              | 0.1086                 | 0.7669 |
|                 |            | 11      |         | 1.304        | 1.337       | 97.53          | 0.9753              | 0.1086                 | 0.7669 |

## Test Graphs





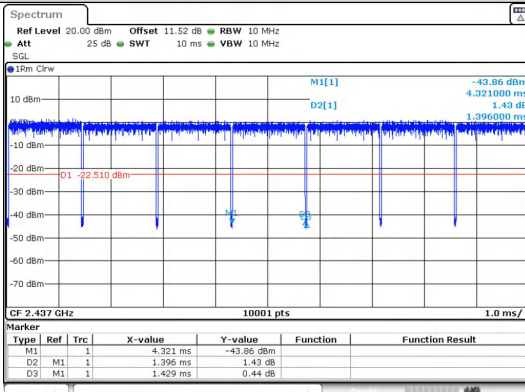
Date: 11.MAR.2025 14:03:27



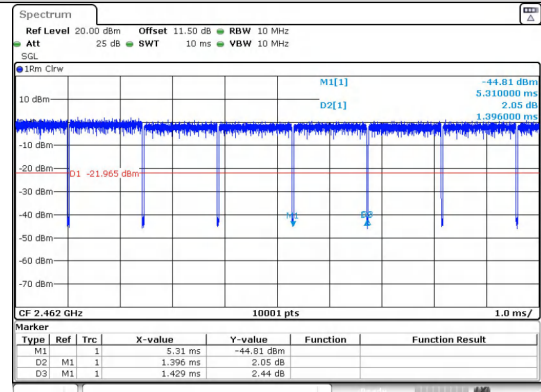
Date: 11.MAR.2025 14:06:34

### IEEE 802.11b\_20MHz\_Channel 11

### IEEE 802.11g\_20MHz\_Channel 1



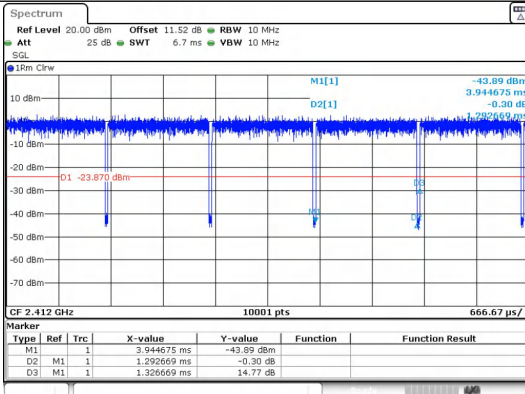
Date: 11.MAR.2025 14:09:35



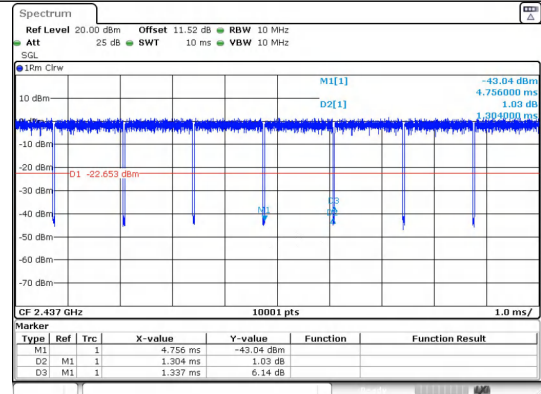
Date: 11.MAR.2025 14:15:11

### IEEE 802.11g\_20MHz\_Channel 6

### IEEE 802.11g\_20MHz\_Channel 11



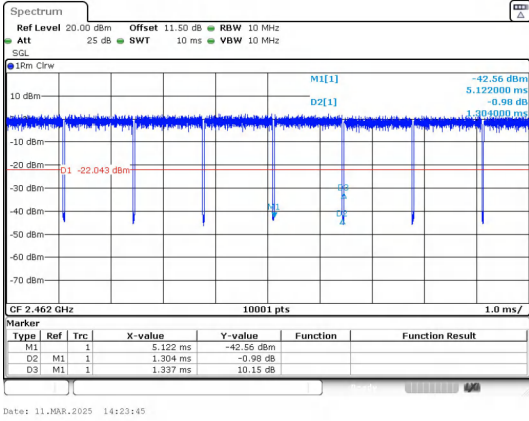
Date: 11.MAR.2025 14:18:19



Date: 11.MAR.2025 14:21:12

### IEEE 802.11n\_20MHz\_Channel 1

### IEEE 802.11n\_20MHz\_Channel 6



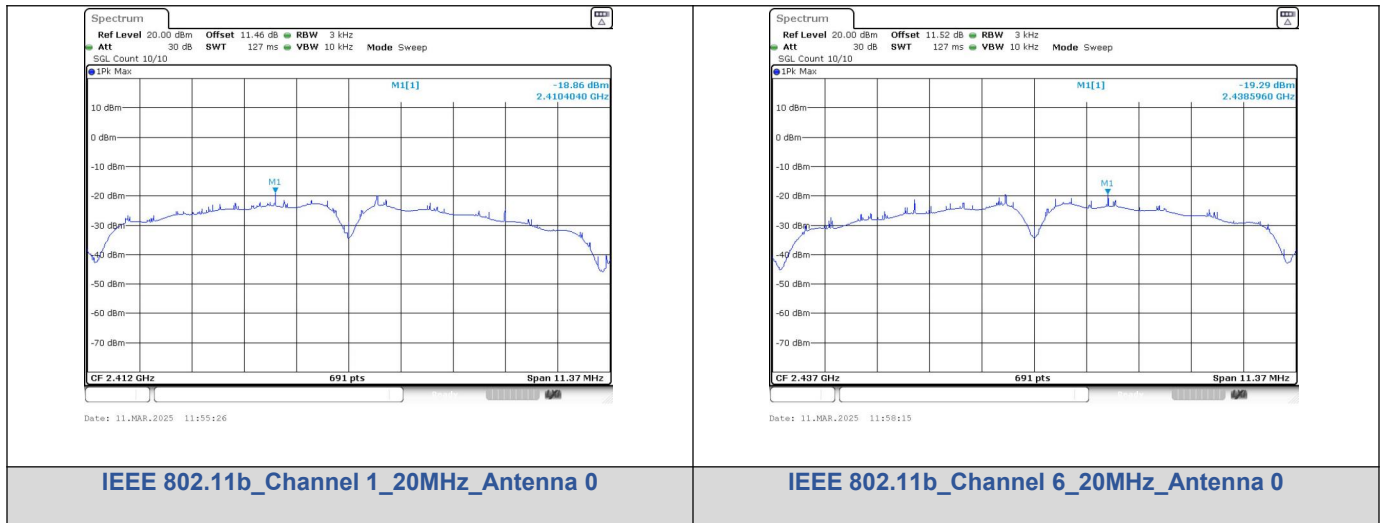
IEEE 802.11n\_20MHz\_Channel 11

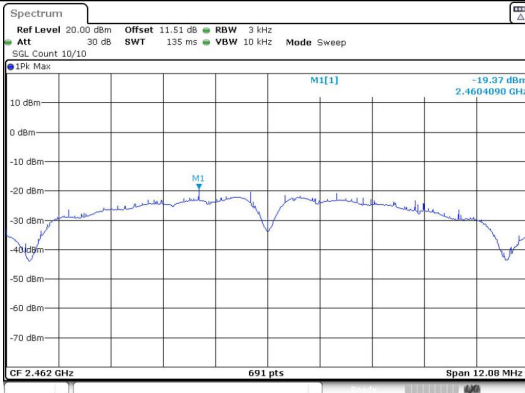
## Power Spectral Density

### Test Result

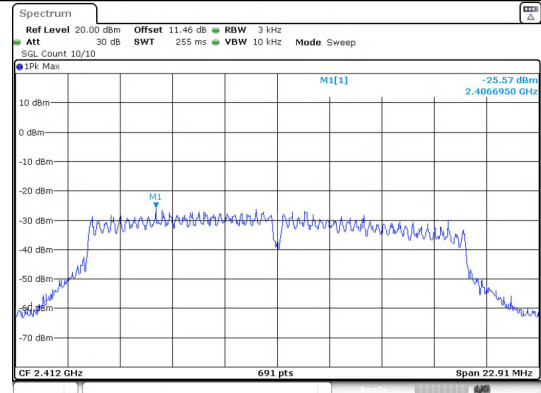
| Mode            | Channel | PSD<br>(dBm/3kHz)<br>Ant. 0 | Limit<br>(dBm/3kHz) | Result |
|-----------------|---------|-----------------------------|---------------------|--------|
| IEEE 802.11b    | 1       | -18.860                     | ≤8                  | PASS   |
|                 | 6       | -19.290                     |                     | PASS   |
|                 | 11      | -19.370                     |                     | PASS   |
| IEEE 802.11g    | 1       | -25.570                     |                     | PASS   |
|                 | 6       | -27.150                     |                     | PASS   |
|                 | 11      | -25.710                     |                     | PASS   |
| IEEE 802.11n_20 | 1       | -26.170                     |                     | PASS   |
|                 | 6       | -26.580                     |                     | PASS   |
|                 | 11      | -26.040                     |                     | PASS   |

### Test Graphs

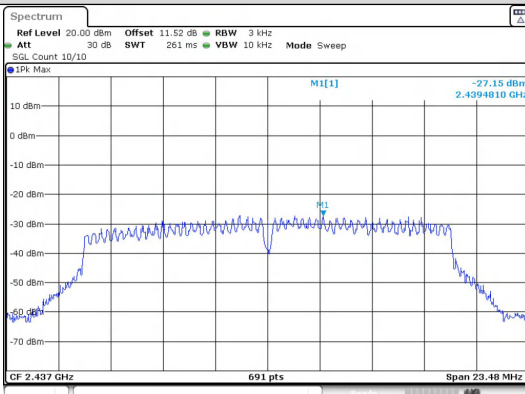




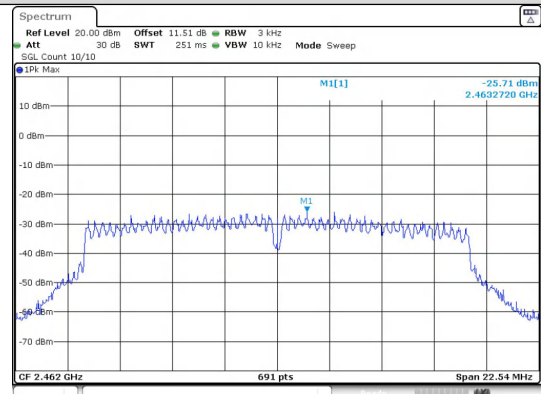
IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0



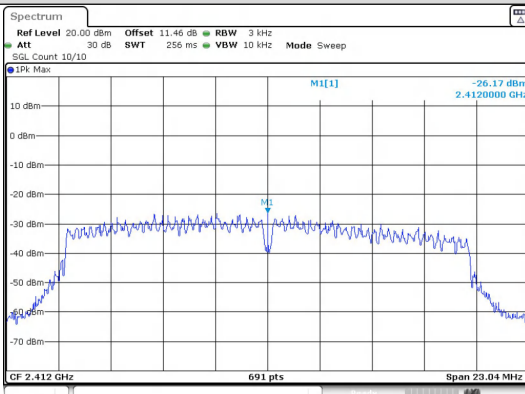
IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0



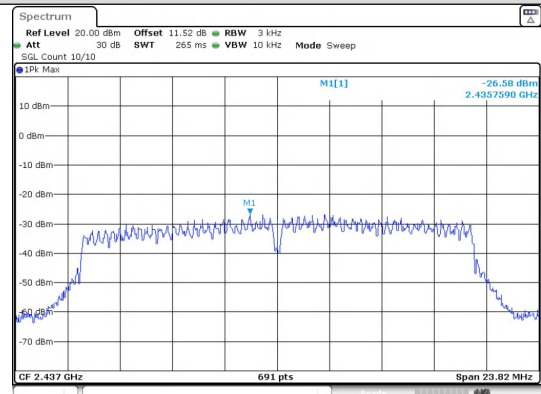
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0



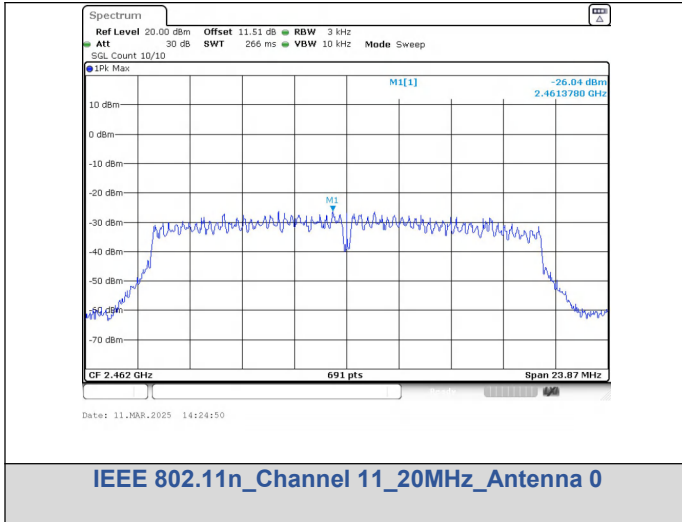
IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0



## Conducted Output Power

### Test Result

#### Conducted Output Power

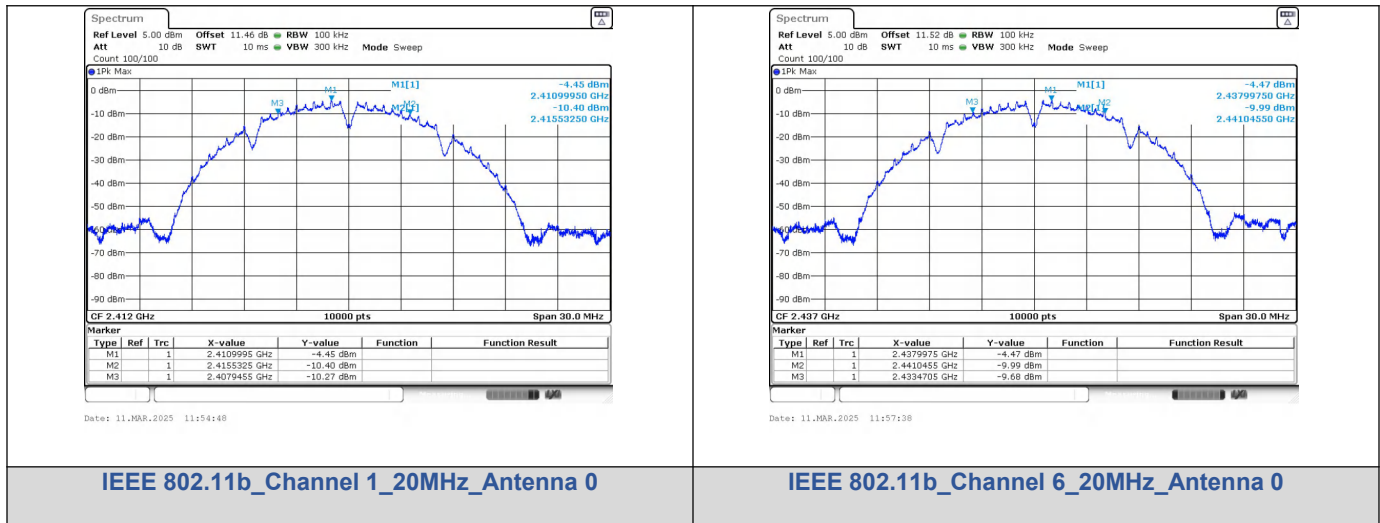
| Mode            | Channel | Ant. 0<br>(dBm) | Limit<br>(dBm) | Result |
|-----------------|---------|-----------------|----------------|--------|
| IEEE 802.11b    | 1       | 7.42            | ≤30            | PASS   |
|                 | 6       | 7.43            | ≤30            | PASS   |
|                 | 11      | 8.58            | ≤30            | PASS   |
| IEEE 802.11g    | 1       | 7.91            | ≤30            | PASS   |
|                 | 6       | 7.90            | ≤30            | PASS   |
|                 | 11      | 8.47            | ≤30            | PASS   |
| IEEE 802.11n_20 | 1       | 7.83            | ≤30            | PASS   |
|                 | 6       | 7.99            | ≤30            | PASS   |
|                 | 11      | 8.74            | ≤30            | PASS   |

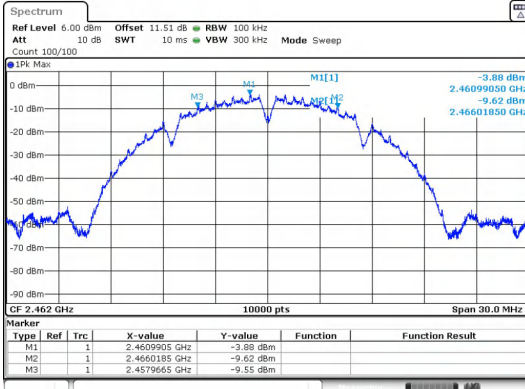
## 6dB Bandwidth

### Test Result

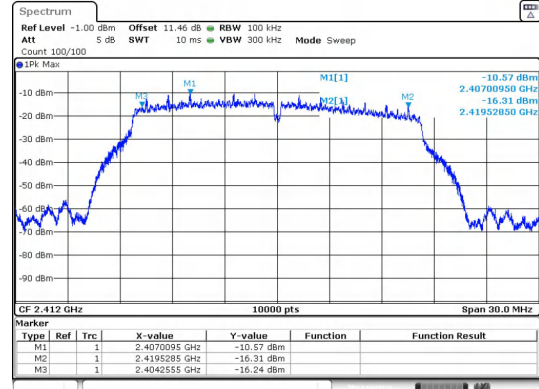
| Mode            | Channel | Ant. | Center Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (MHz) | Result |
|-----------------|---------|------|------------------------|----------------------|-------------|--------|
| IEEE 802.11b    | 1       | 0    | 2412                   | 7.580                | ≥0.5        | PASS   |
|                 | 6       |      | 2437                   | 7.580                |             | PASS   |
|                 | 11      |      | 2462                   | 8.050                |             | PASS   |
| IEEE 802.11g    | 1       |      | 2412                   | 15.27                |             | PASS   |
|                 | 6       |      | 2437                   | 15.65                |             | PASS   |
|                 | 11      |      | 2462                   | 15.03                |             | PASS   |
| IEEE 802.11n_20 | 1       |      | 2412                   | 15.36                |             | PASS   |
|                 | 6       |      | 2437                   | 15.88                |             | PASS   |
|                 | 11      |      | 2462                   | 15.91                |             | PASS   |

### Test Graphs



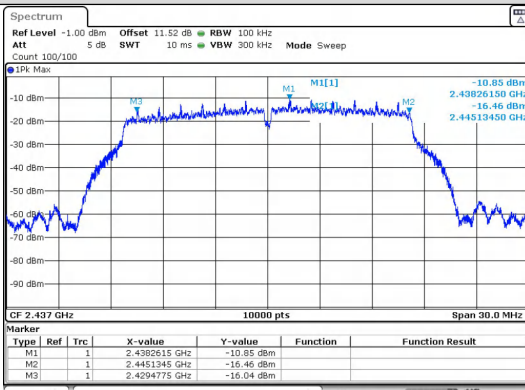


Date: 11.MAR.2025 14:03:52



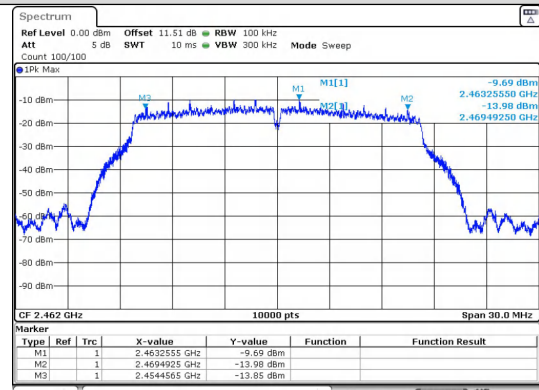
Date: 11.MAR.2025 14:07:00

### IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0



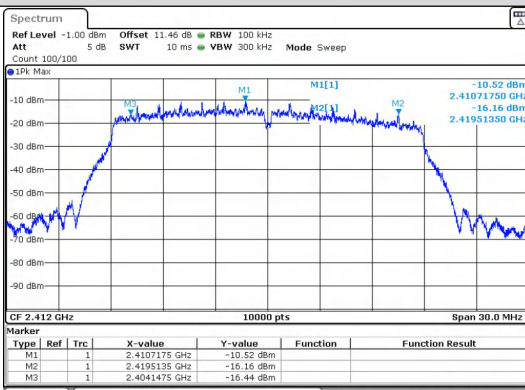
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### IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0



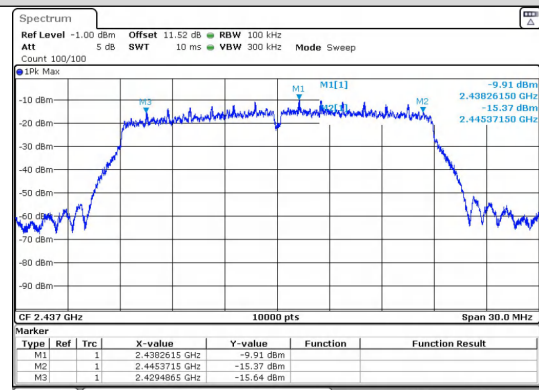
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### IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0



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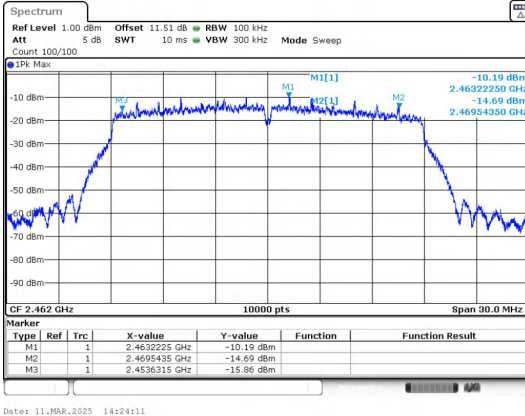
### IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0



Date: 11.MAR.2025 14:21:38

### IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0

### IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0



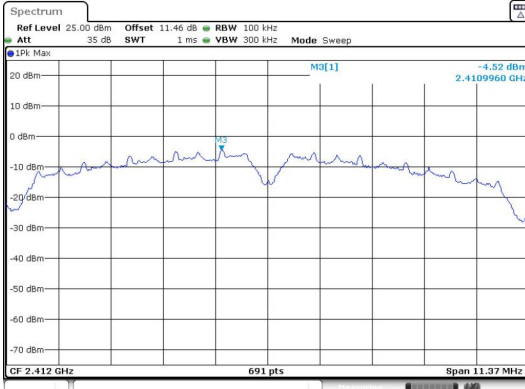
IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0

## Conducted Out Of Band Emission

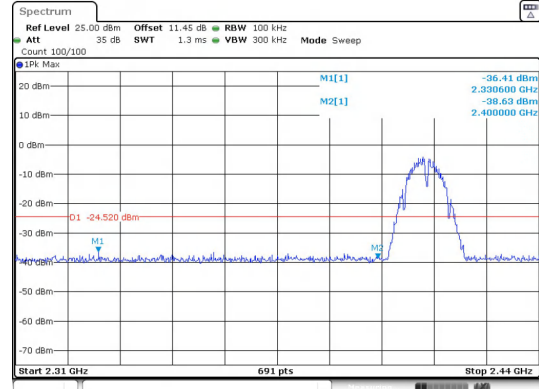
### Test Result

| Mode               | Channel | Ant. | OOB<br>Emission<br>Frequency<br>(MHz) | OOB<br>Emission<br>Level<br>(dBm) | Limit<br>(dBm) | Over Limit<br>(dB) | Result |
|--------------------|---------|------|---------------------------------------|-----------------------------------|----------------|--------------------|--------|
| IEEE<br>802.11b    | 1       | 0    | 2330.60                               | -36.412                           | -24.52         | -11.892            | PASS   |
|                    |         |      | 2400.00                               | -38.630                           | -24.52         | -14.110            | PASS   |
|                    |         |      | 22028.2                               | -42.547                           | -24.52         | -18.027            | PASS   |
|                    | 6       |      | 6585.04                               | -43.550                           | -24.59         | -18.960            | PASS   |
|                    | 11      |      | 2483.50                               | -38.410                           | -23.97         | -14.440            | PASS   |
|                    |         |      | 6942.11                               | -43.169                           | -23.97         | -19.199            | PASS   |
| IEEE<br>802.11g    | 1       |      | 2390.43                               | -36.312                           | -30.36         | -5.952             | PASS   |
|                    |         |      | 2400.00                               | -39.220                           | -30.36         | -8.860             | PASS   |
|                    |         |      | 6998.70                               | -42.505                           | -30.36         | -12.145            | PASS   |
|                    | 6       |      | 6962.92                               | -43.447                           | -30.48         | -12.967            | PASS   |
|                    | 11      |      | 2483.50                               | -37.990                           | -30.95         | -7.040             | PASS   |
|                    |         |      | 6188.85                               | -41.939                           | -30.95         | -10.989            | PASS   |
| IEEE<br>802.11n_20 | 1       |      | 2372.93                               | -36.779                           | -30.31         | -6.469             | PASS   |
|                    |         |      | 2400.00                               | -39.260                           | -30.31         | -8.950             | PASS   |
|                    |         |      | 6183.00                               | -42.803                           | -30.31         | -12.493            | PASS   |
|                    | 6       |      | 6950.44                               | -42.494                           | -30.82         | -11.674            | PASS   |
|                    | 11      |      | 2483.50                               | -38.530                           | -30.51         | -8.020             | PASS   |
|                    |         |      | 6985.39                               | -42.513                           | -30.51         | -12.003            | PASS   |

### Test Graphs



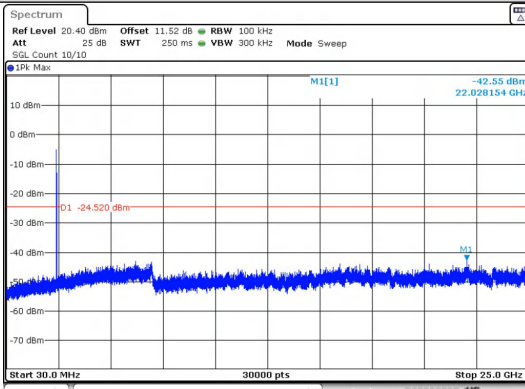
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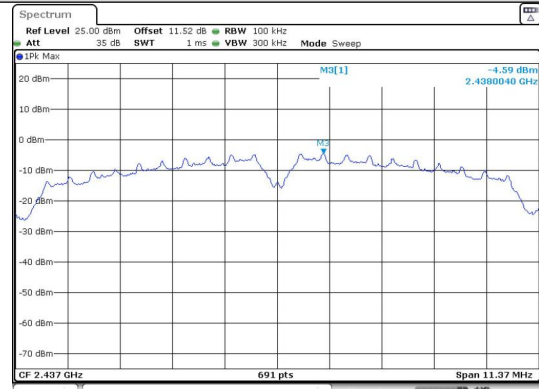
Date: 11.MAR.2025 11:56:03

**In-Band Reference Level**  
**IEEE 802.11b\_Channel 1\_20MHz\_Antenna 0**

**Out Of Band Emission**  
**IEEE 802.11b\_Channel 1\_20MHz\_Antenna 0**



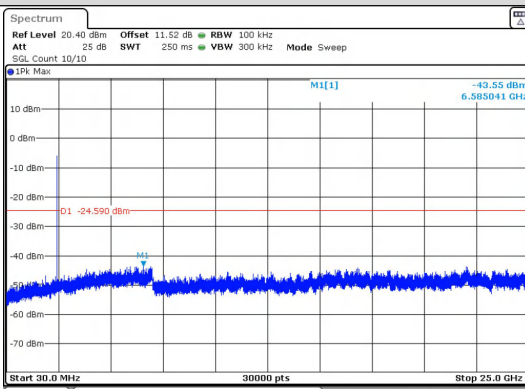
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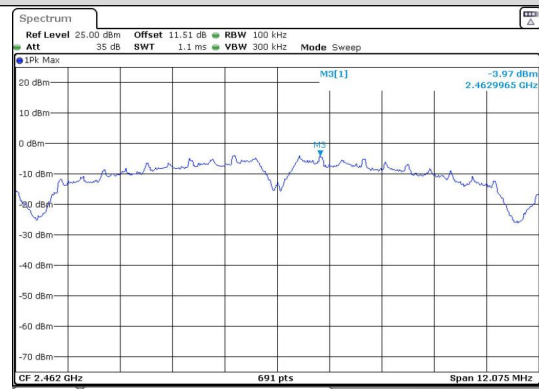
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**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11b\_Channel 1\_20MHz\_Antenna 0**

**In-Band Reference Level**  
**IEEE 802.11b\_Channel 6\_20MHz\_Antenna 0**



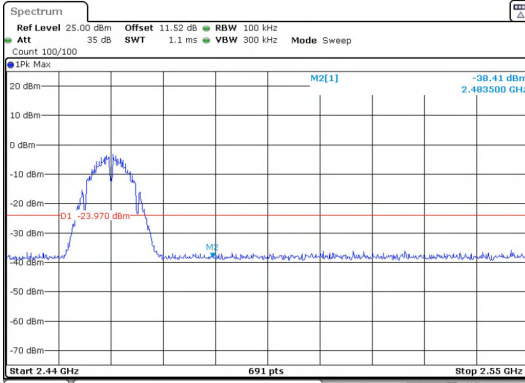
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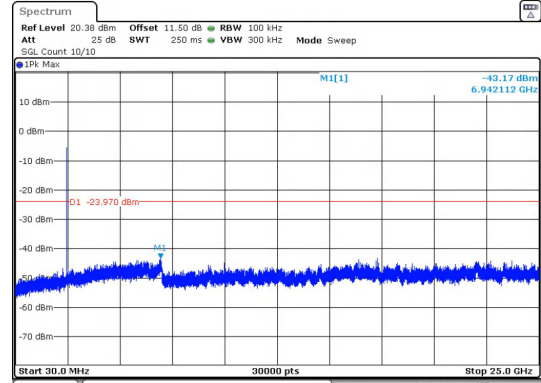
Date: 11.MAR.2025 14:04:48

**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11b\_Channel 6\_20MHz\_Antenna 0**

**In-Band Reference Level**  
**IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0**



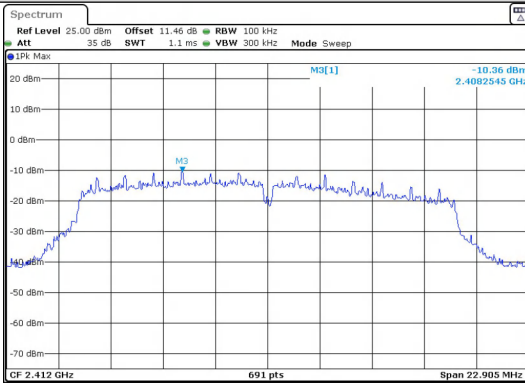
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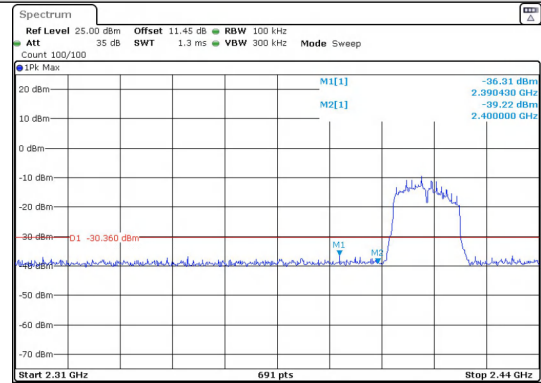
Date: 11.MAR.2025 14:05:30

**Out Of Band Emission**  
**IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0**

**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0**



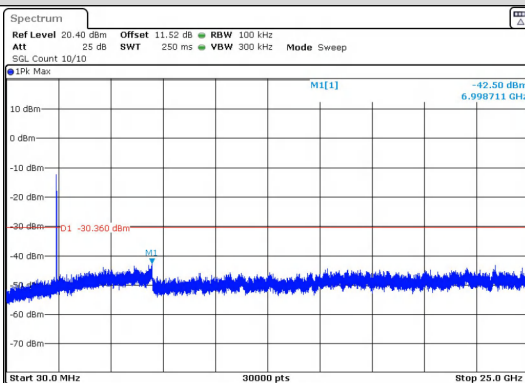
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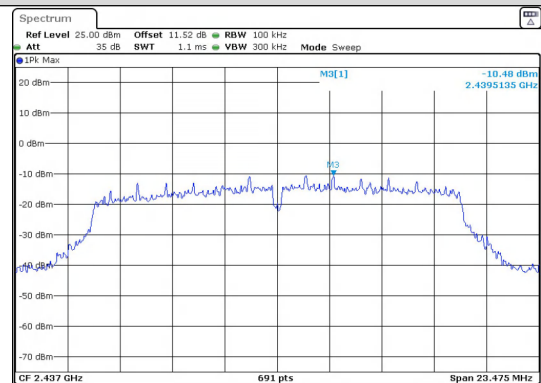
Date: 11.MAR.2025 14:08:17

**In-Band Reference Level**  
**IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0**

**Out Of Band Emission**  
**IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0**



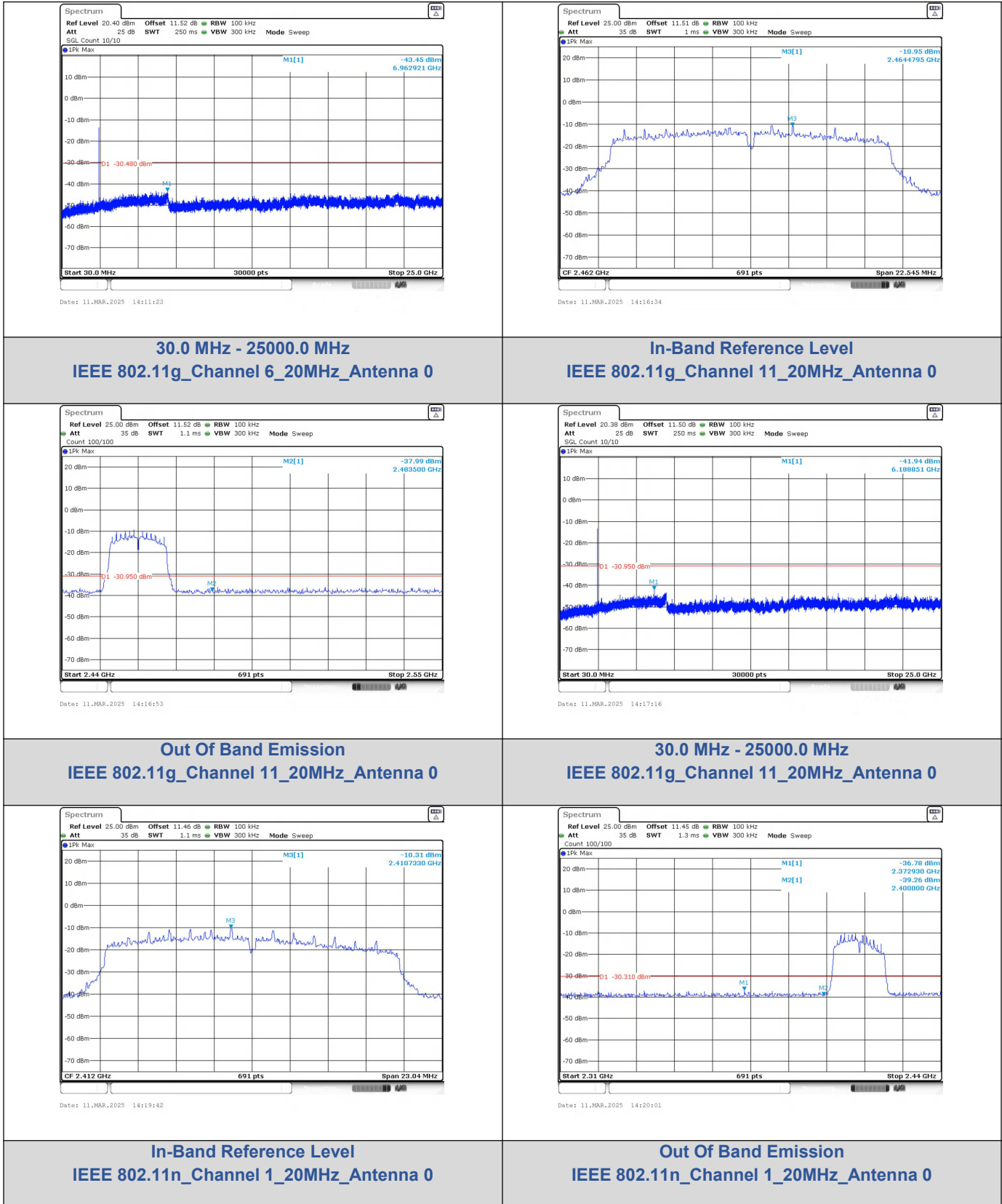
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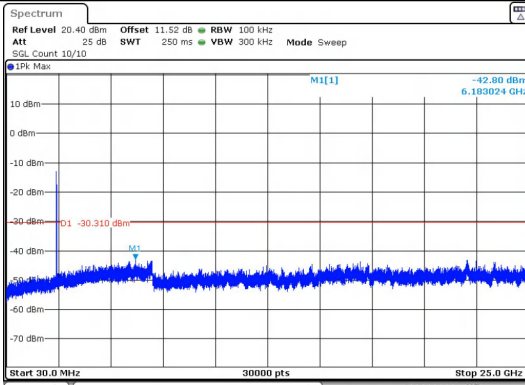


Date: 11.MAR.2025 14:10:59

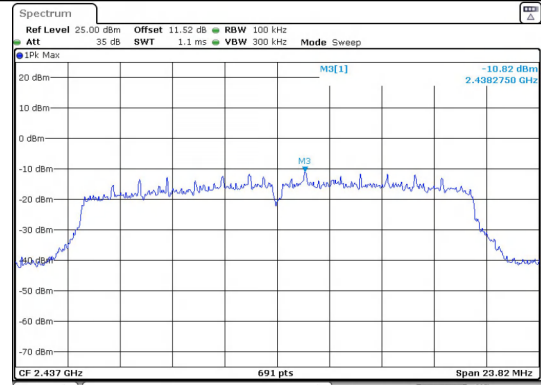
**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0**

**In-Band Reference Level**  
**IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0**





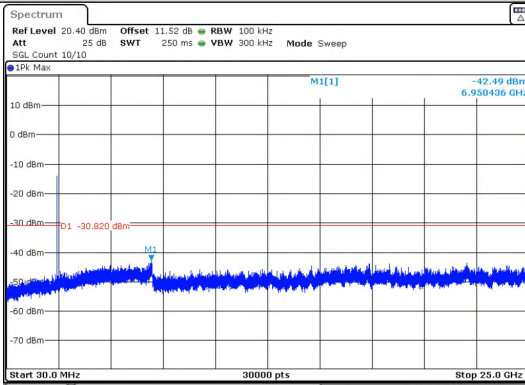
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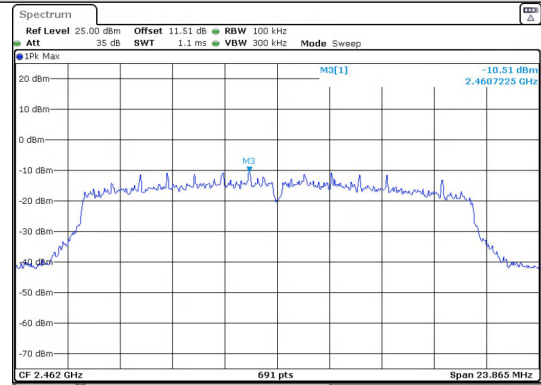
Date: 11.MAR.2025 14:22:35

**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0**

**In-Band Reference Level**  
**IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0**



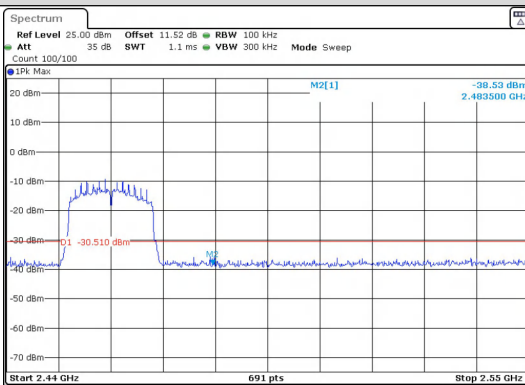
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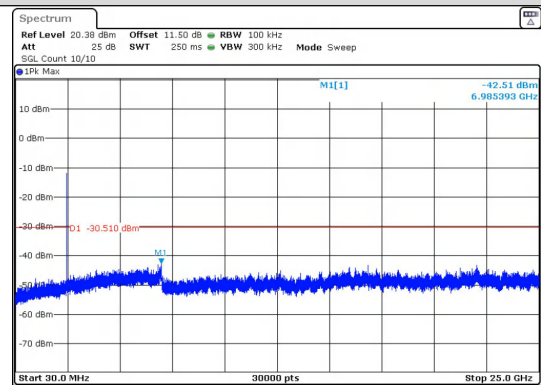
Date: 11.MAR.2025 14:25:08

**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0**

**In-Band Reference Level**  
**IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0**



Date: 11.MAR.2025 14:25:27



Date: 11.MAR.2025 14:25:50

**Out Of Band Emission**  
**IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0**

**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0**

-----End of the report-----