

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20251801 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.11.10      | Finish Test Date:  | 2022.11.14        |
| Test Engineer:   | <i>Jony.He</i>  | Auditor:           | <i>Edward.Pan</i> |
| Temperature:     | 27.3C°          | Relative Humidity: | 47 %              |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: 20dB Emission Bandwidth

## Test Result

| TestMode | Antenna | Frequency[MHz] | 20db EBW[MHz] | FL[MHz]  | FH[MHz]  |
|----------|---------|----------------|---------------|----------|----------|
| 2.4G     | Ant1    | 2409.5         | 1.105         | 2409.110 | 2410.215 |
|          |         | 2441           | 1.000         | 2440.630 | 2441.630 |
|          |         | 2476           | 1.000         | 2475.620 | 2476.620 |



## Test Graphs

2.4G\_Ant1\_2409.5



2.4G\_Ant1\_2441



2.4G\_Ant1\_2476

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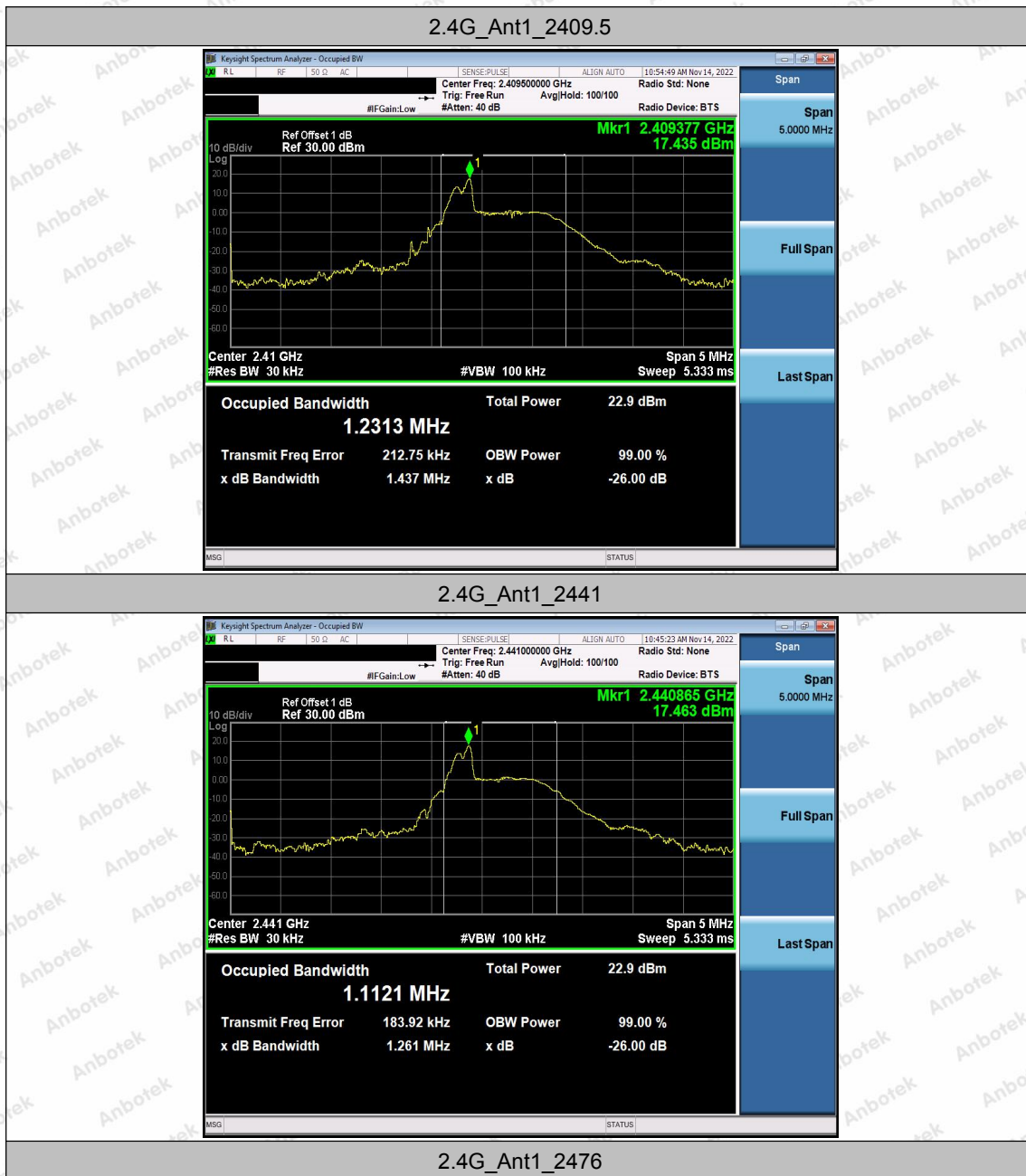
## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|----------|---------|----------------|-----------|-----------|-----------|
| 2.4G     | Ant1    | 2409.5         | 1.2313    | 2409.1017 | 2410.3260 |
|          |         | 2441           | 1.1121    | 2440.6279 | 2441.7400 |
|          |         | 2476           | 1.0871    | 2475.6293 | 2476.7164 |



## Test Graphs



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## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| 2.4G      | Ant1    | 2409.5         | 18.33                     | ≤20.97               | PASS    |
|           |         | 2441           | 18.27                     | ≤20.97               | PASS    |
|           |         | 2476           | 18.17                     | ≤20.97               | PASS    |



## Test Graphs

2.4G\_Ant1\_2409.5



2.4G\_Ant1\_2441



2.4G\_Ant1\_2476

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## Appendix D: Carrier frequency separation

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| 2.4G     | Ant1    | Hop            | 3.56        | ≥0.821     | PASS    |

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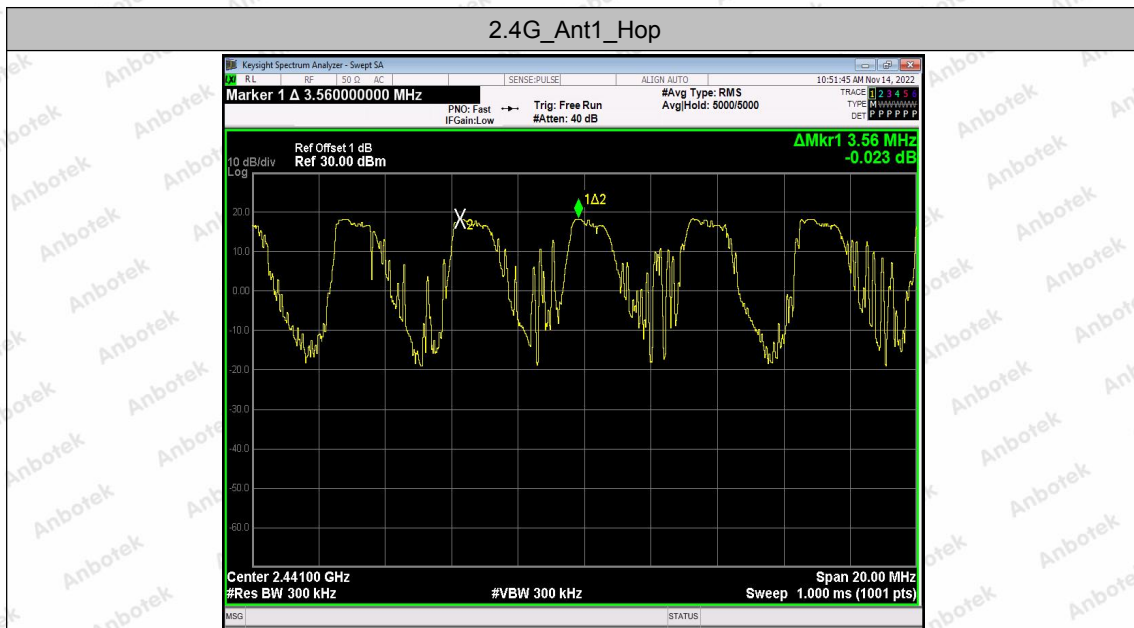
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## Test Graphs



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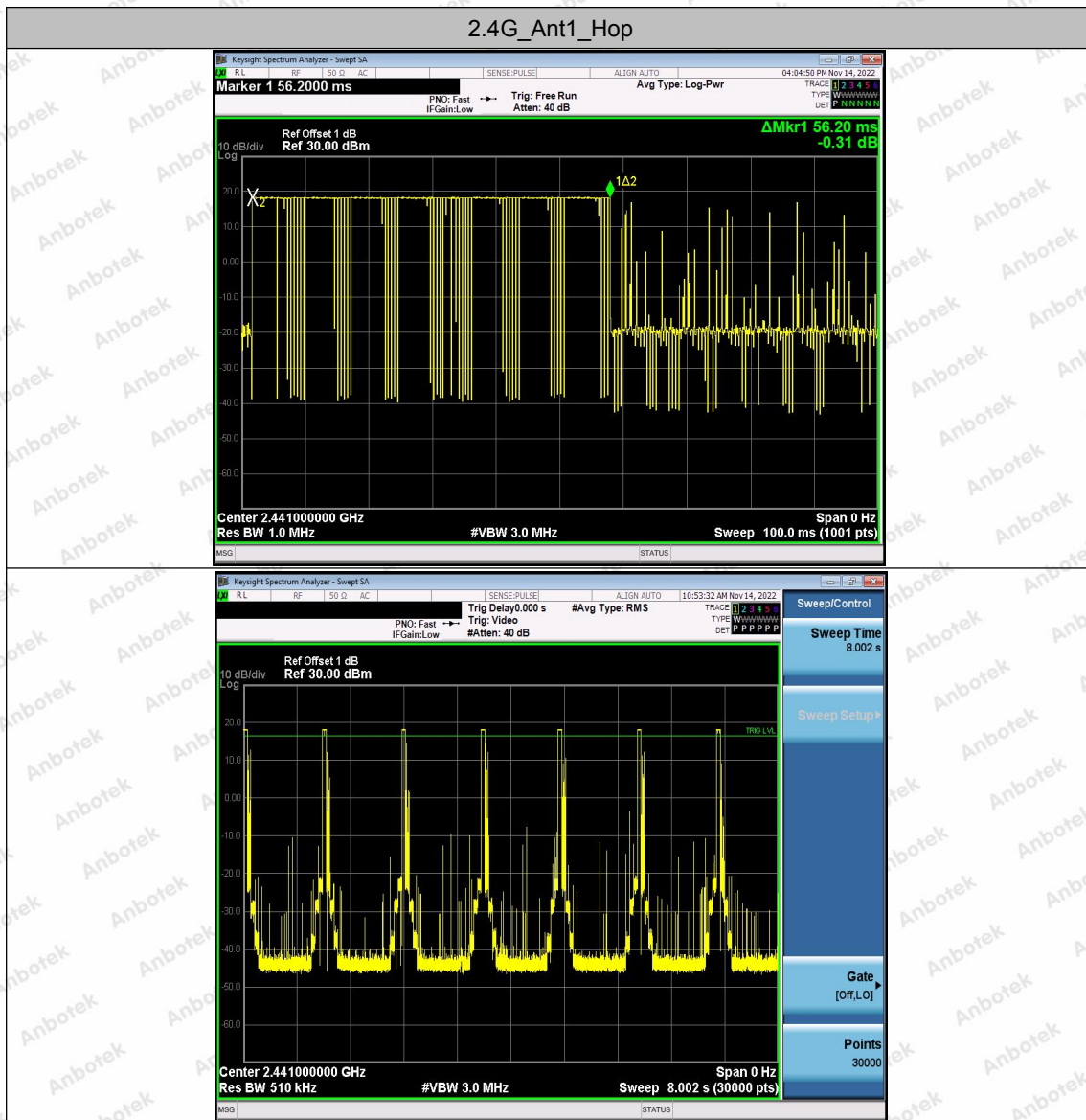
## Appendix E: Time of occupancy

### Test Result

| TestMode | Antenna | Frequency[MHz] | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|----------------|--------------------|--------------------|-----------|----------|---------|
| 2.4G     | Ant1    | Hop            | 56.20              | 7                  | 0.39      | ≤0.4     | PASS    |



## Test Graphs



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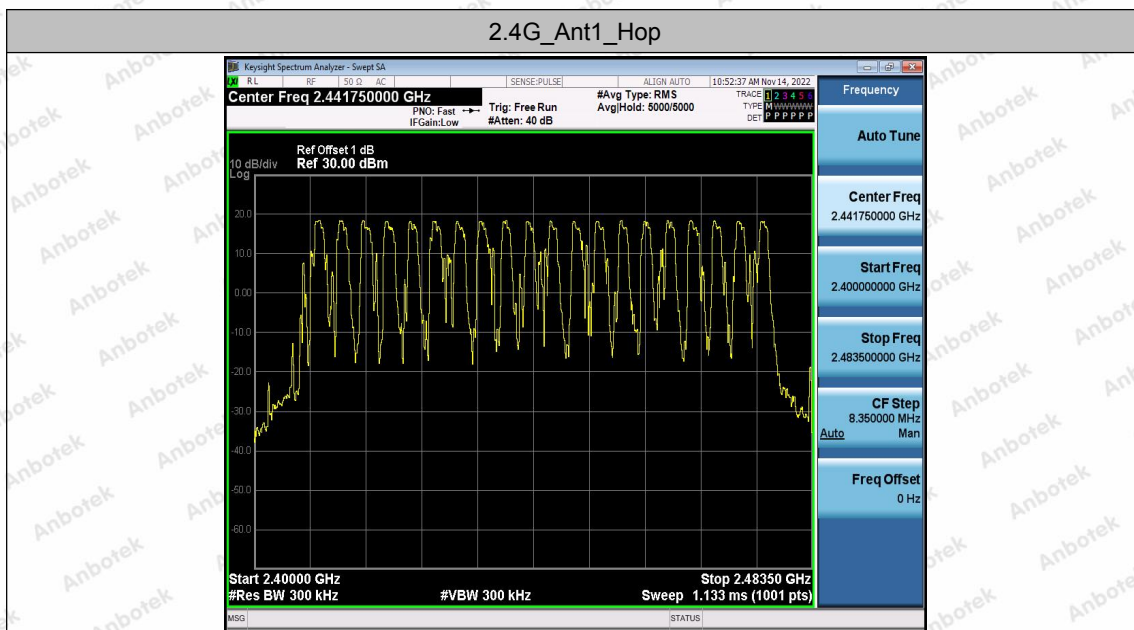
## Appendix F: Number of hopping channels

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[Num] | Limit[Num] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| 2.4G     | Ant1    | Hop            | 20          | ≥15        | PASS    |



## Test Graphs



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## Appendix G: Band edge measurements

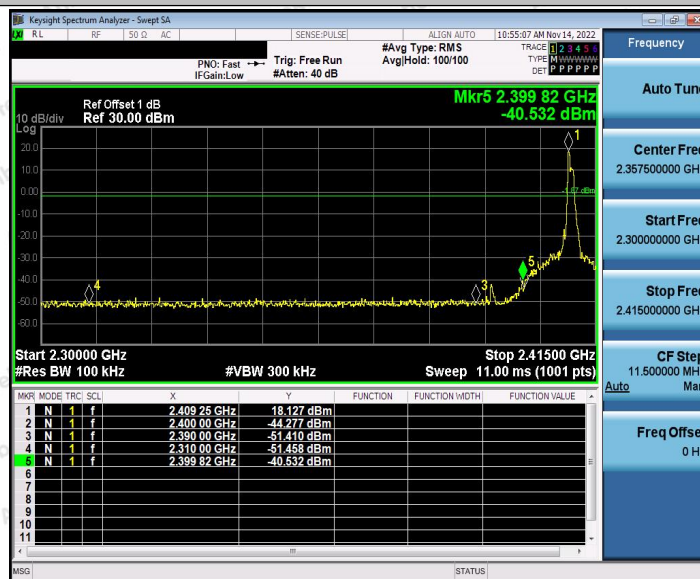
### Test Result

| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|----------------|-------------------|-----------------|----------------|---------|
| 2.4G     | Ant1    | Low    | 2409.5         | 18.13             | -40.53          | $\leq -1.87$   | PASS    |
|          |         | High   | 2476           | 18.21             | -37.49          | $\leq -1.79$   | PASS    |
|          |         | Low    | Hop_2402       | 18.02             | -46.68          | $\leq -1.98$   | PASS    |
|          |         | High   | Hop_2480       | 18.24             | -46.67          | $\leq -1.76$   | PASS    |

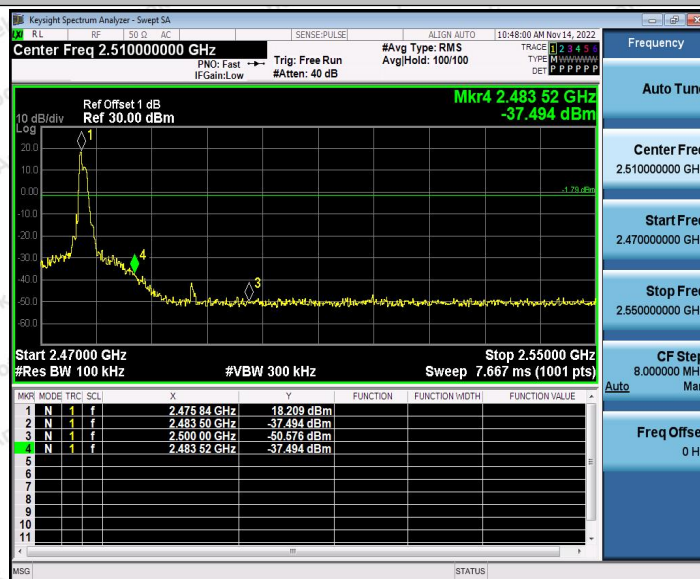


## Test Graphs

2.4G\_Ant1\_Low\_2409.5



2.4G\_Ant1\_High\_2476



2.4G\_Ant1\_Low\_Hop\_2402

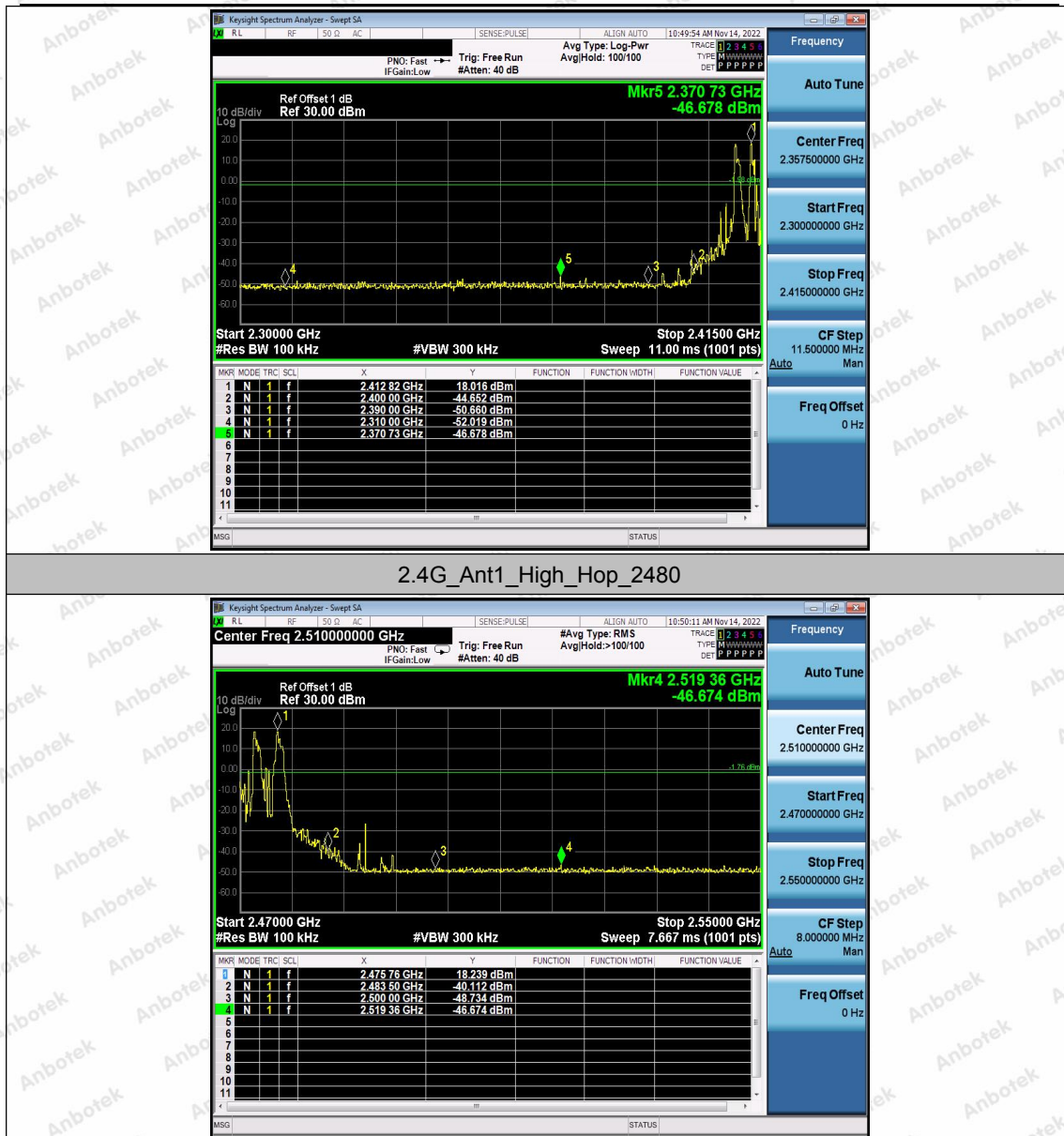
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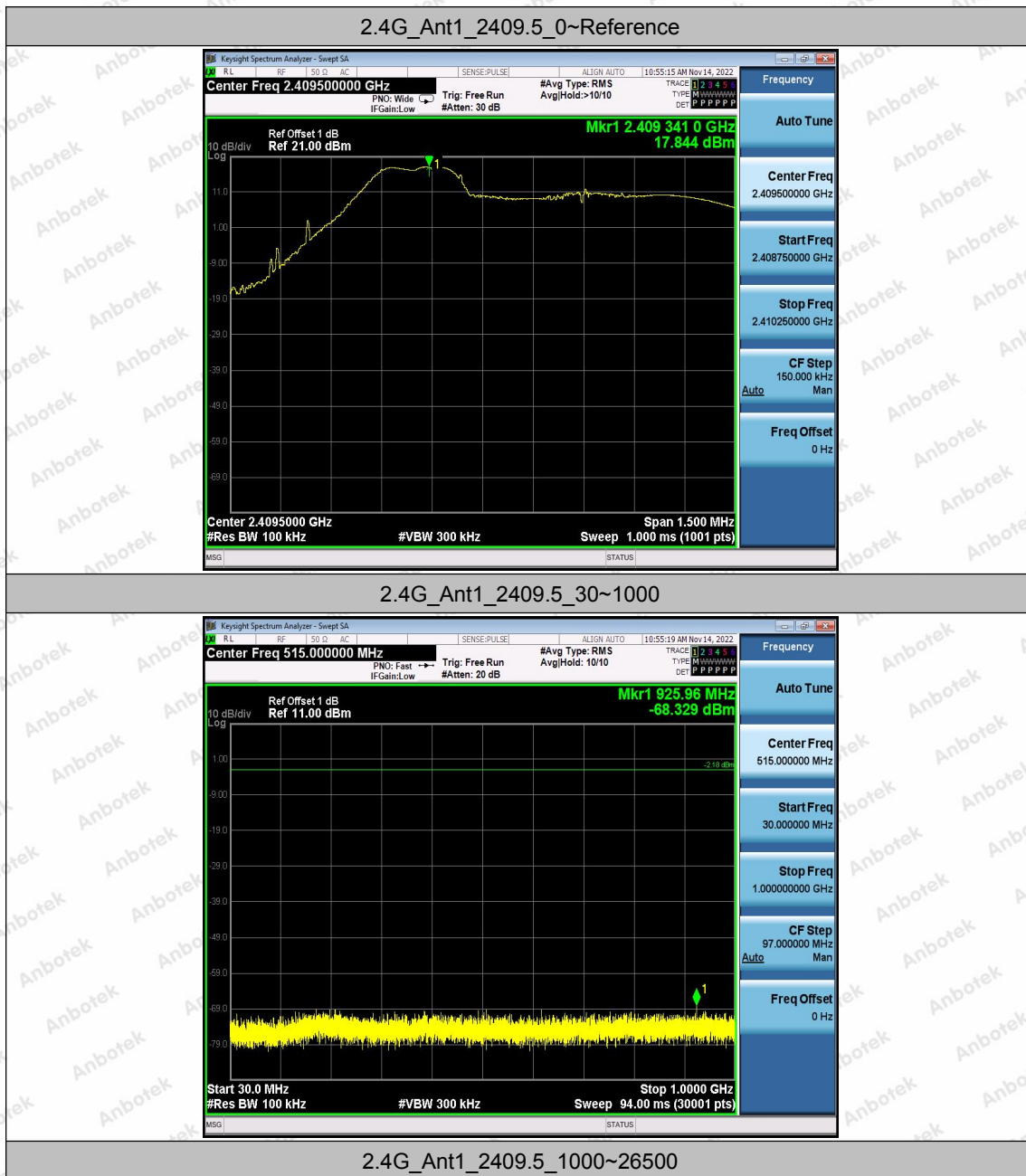
## Appendix H: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 2.4G     | Ant1    | 2409.5         | Reference       | 17.82          | 17.82        | ---         | PASS    |
|          |         |                | 30~1000         | 17.82          | -68.33       | ≤-2.18      | PASS    |
|          |         |                | 1000~26500      | 17.82          | -38.88       | ≤-2.18      | PASS    |
|          |         | 2441           | Reference       | 17.96          | 17.96        | ---         | PASS    |
|          |         |                | 30~1000         | 17.96          | -68.28       | ≤-2.04      | PASS    |
|          |         |                | 1000~26500      | 17.96          | -39.58       | ≤-2.04      | PASS    |
|          |         | 2476           | Reference       | 17.83          | 17.83        | ---         | PASS    |
|          |         |                | 30~1000         | 17.83          | -68.36       | ≤-2.17      | PASS    |
|          |         |                | 1000~26500      | 17.83          | -39.32       | ≤-2.17      | PASS    |



## Test Graphs



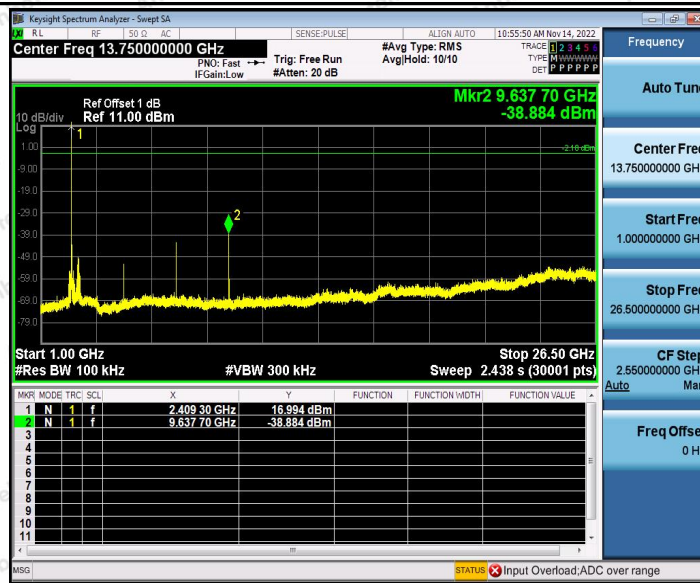
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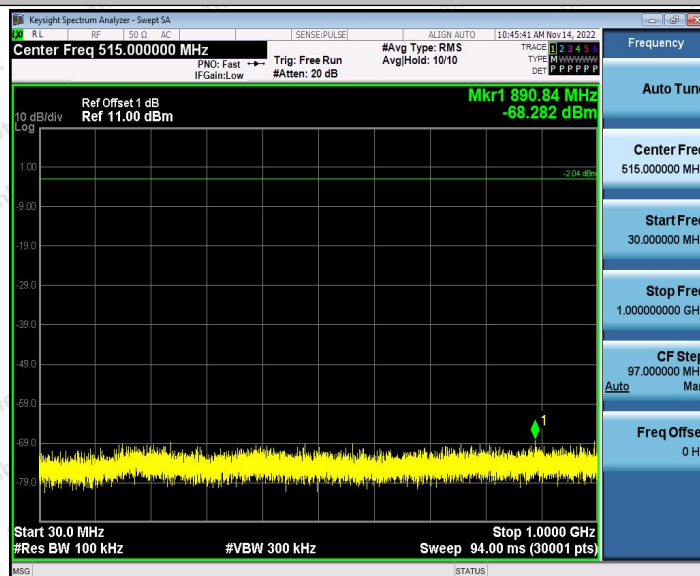




2.4G\_Ant1\_2441\_0~Reference



2.4G\_Ant1\_2441\_30~1000



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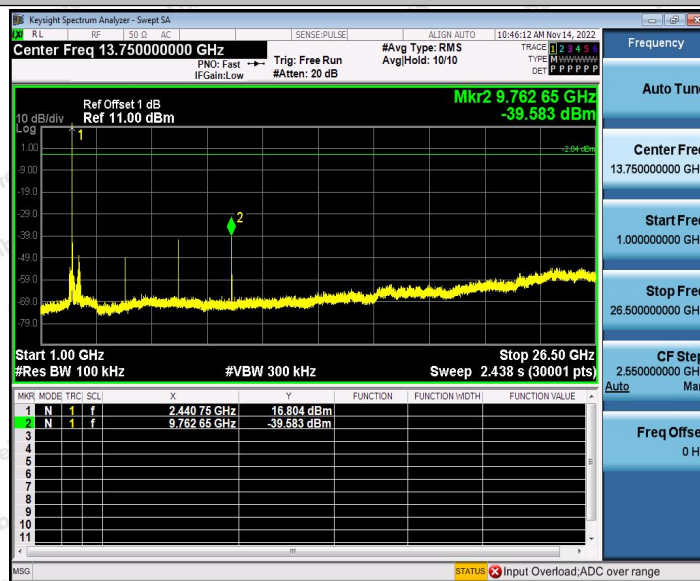
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## 2.4G\_Ant1\_2441\_1000~26500



## 2.4G\_Ant1\_2476\_0~Reference



## 2.4G\_Ant1\_2476\_30~1000

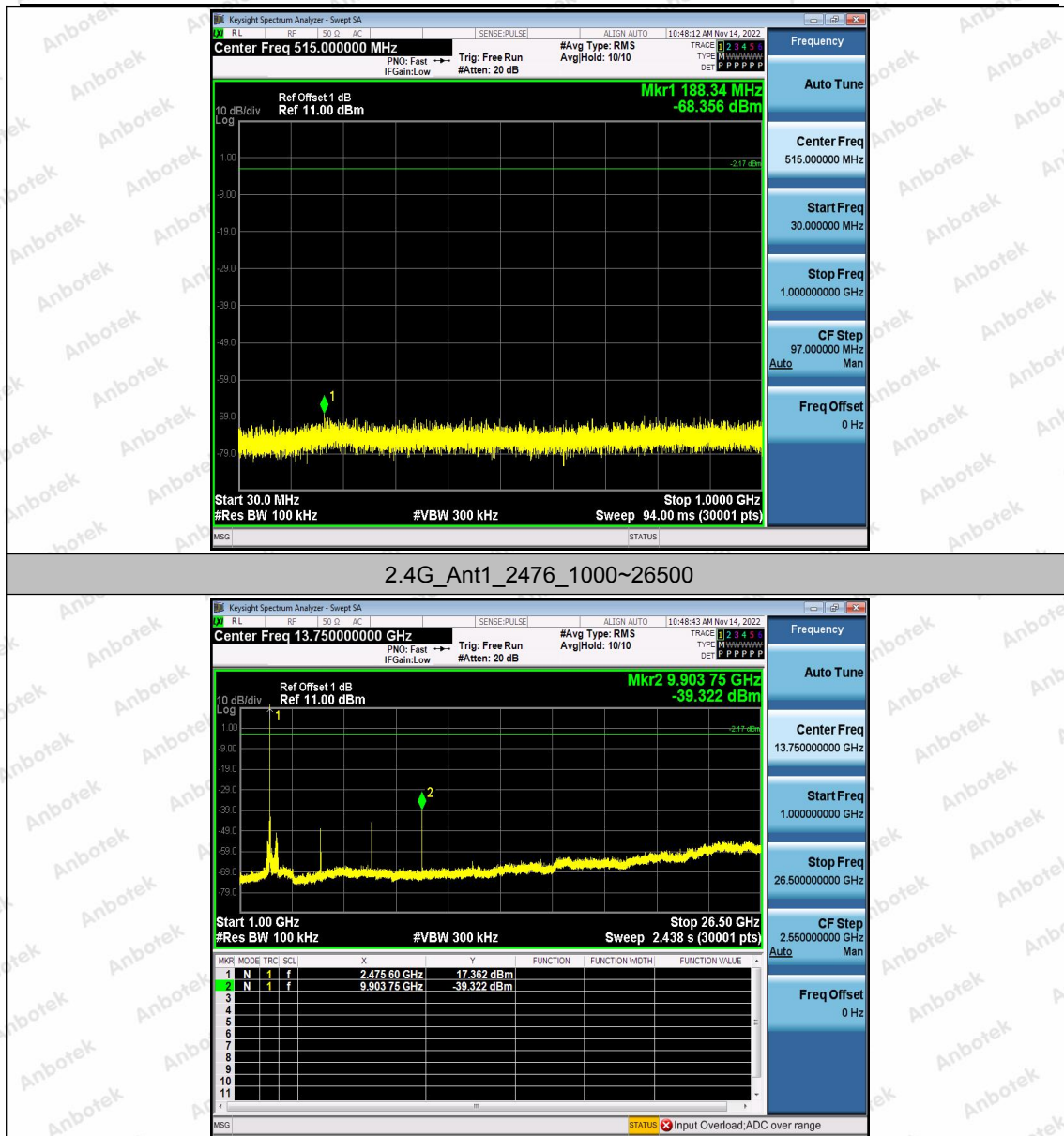
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## Appendix I: Duty Cycle

### Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time[ms] | Period[ms] | Duty Cycle[%] | Duty Cycle Factor[dB] |
|----------|---------|----------------|-------------|------------|---------------|-----------------------|
| 2.4G     | Ant1    | 2409.5         | 0.06        | 0.14       | 42.86         | 3.68                  |
|          |         | 2441           | 0.06        | 0.14       | 42.86         | 3.68                  |
|          |         | 2476           | 0.06        | 0.14       | 42.86         | 3.68                  |

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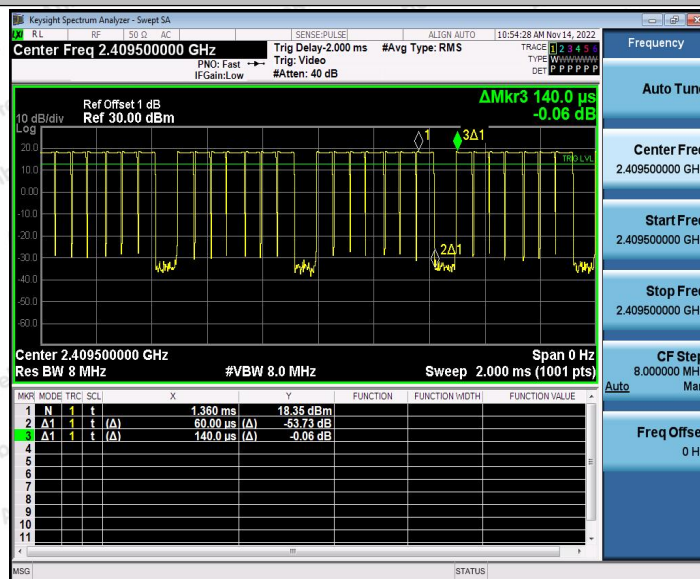


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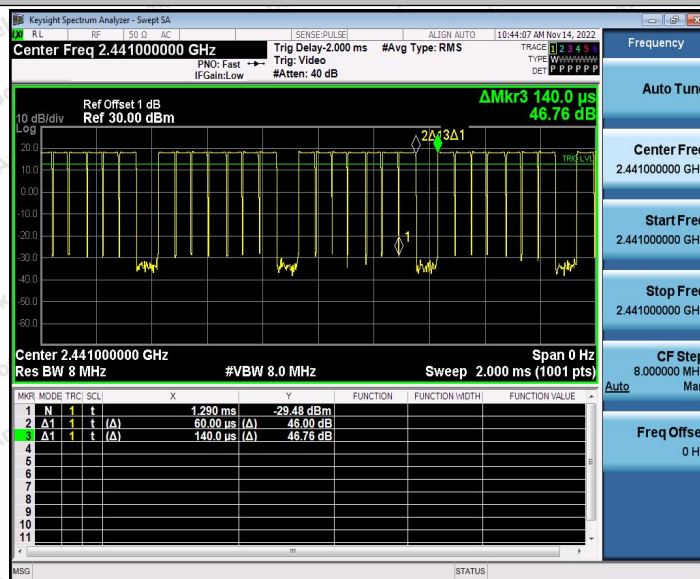


## Test Graphs

2.4G\_Ant1\_2409.5



2.4G\_Ant1\_2441



2.4G\_Ant1\_2476

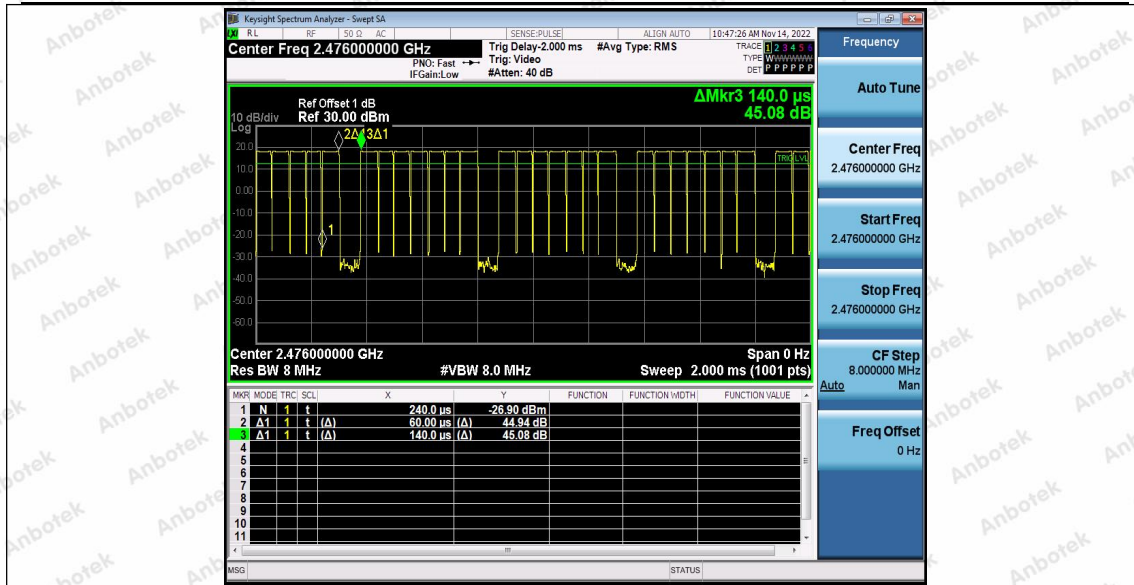
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