

# Test Data Appendix For Thread

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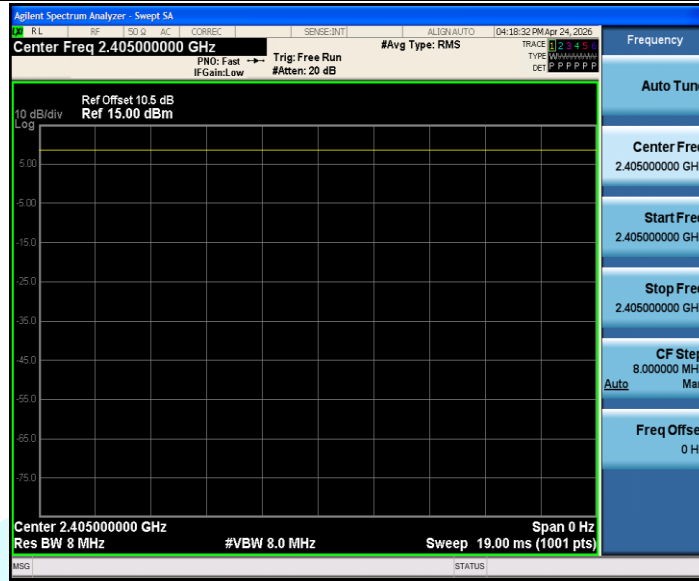
## Duty Cycle

| Test Mode | Antenna | Frequency<br>(MHz) | ON Time<br>[ms] | Period<br>[ms] | X   | DC [%] | X Factor |
|-----------|---------|--------------------|-----------------|----------------|-----|--------|----------|
| Thread    | Ant1    | 2405               | 0.00            | 0.00           | NaN | 100    | NaN      |
|           |         | 2440               | 0.00            | 0.00           | NaN | 100    | NaN      |
|           |         | 2480               | 0.00            | 0.00           | NaN | 100    | NaN      |

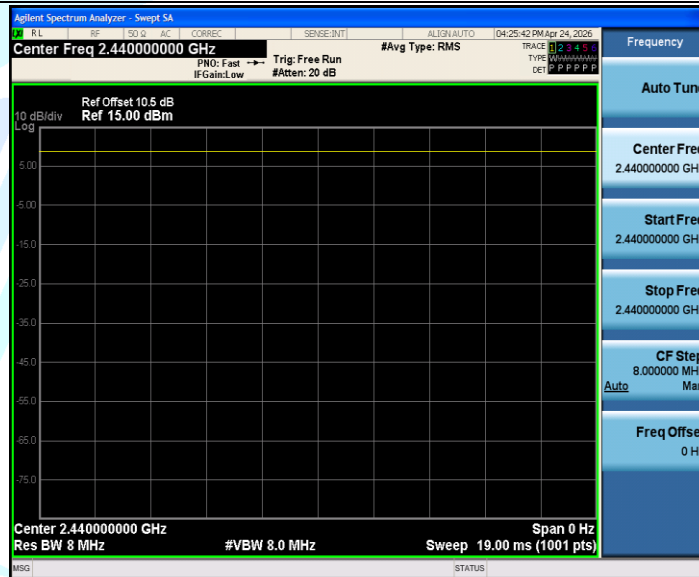


Test Graphs

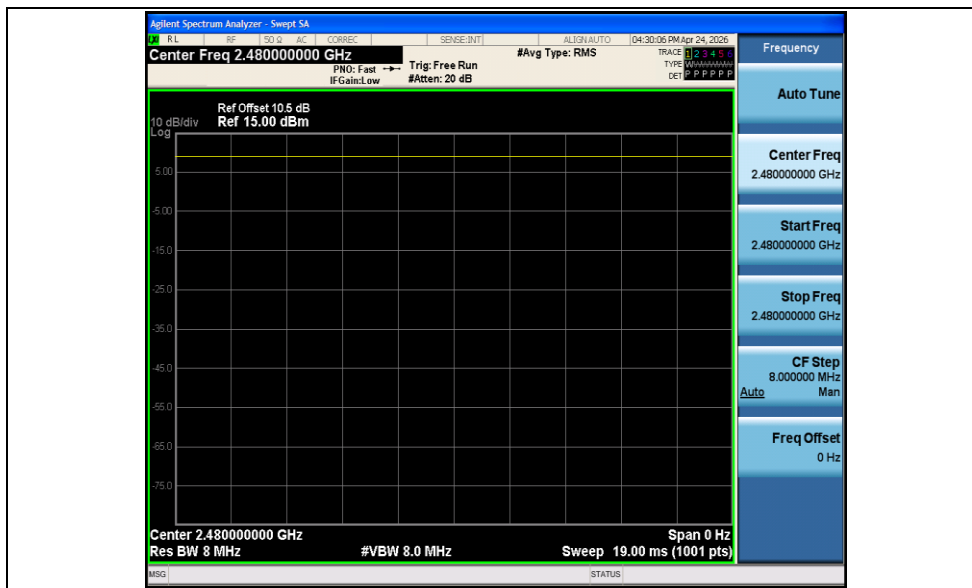
Thread\_Ant1\_2405



Thread\_Ant1\_2440



Thread\_Ant1\_2480



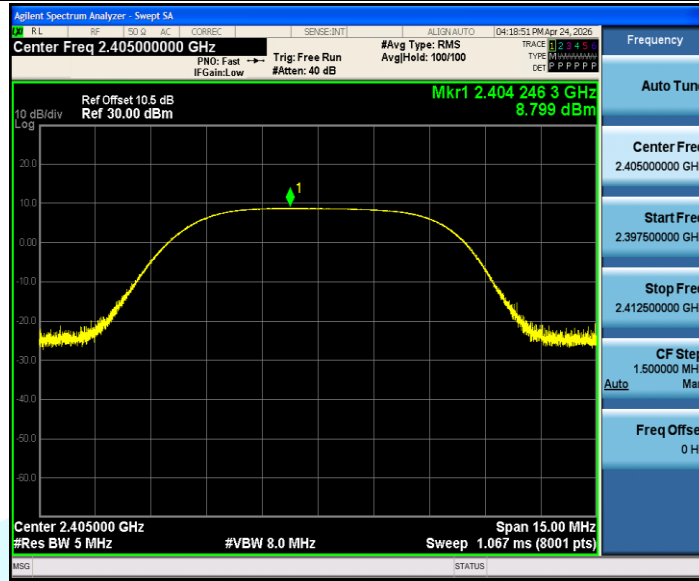
## Maximum Peak Conducted Output Power

| Test Mode | Antenna | Frequency (MHz) | Conducted Peak Power [dBm] | Conducted Limit [dBm] | Verdict |
|-----------|---------|-----------------|----------------------------|-----------------------|---------|
| Thread    | Ant1    | 2405            | 8.80                       | ≤30                   | PASS    |
|           |         | 2440            | 8.90                       | ≤30                   | PASS    |
|           |         | 2480            | 9.05                       | ≤30                   | PASS    |

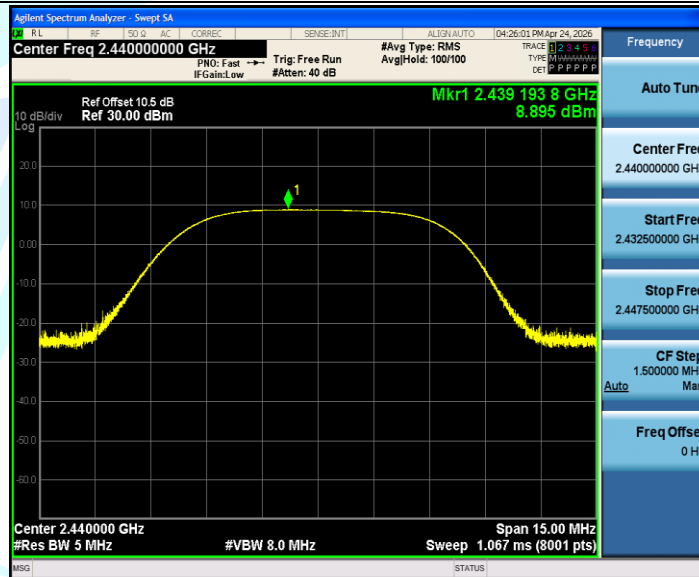


## Test Graphs

Thread\_Ant1\_2405



Thread\_Ant1\_2440



Thread\_Ant1\_2480



## -6dB Emission Bandwidth

| Test Mode | Antenna | Frequency (MHz) | DTS BW [MHz] | FL[MHz]  | FH [MHz] | Limit [MHz] | Verdict |
|-----------|---------|-----------------|--------------|----------|----------|-------------|---------|
| Thread    | Ant1    | 2405            | 1.700        | 2404.120 | 2405.820 | 0.5         | PASS    |
|           |         | 2440            | 1.620        | 2439.170 | 2440.790 | 0.5         | PASS    |
|           |         | 2480            | 1.610        | 2479.180 | 2480.790 | 0.5         | PASS    |



## Test Graphs

### Thread\_Ant1\_2405



### Thread\_Ant1\_2440



### Thread\_Ant1\_2480



## Occupied Bandwidth

| Test Mode | Antenna | Frequency (MHz) | OCB [MHz] | FL [MHz]  | FH [MHz]  | Limit [MHz] | Verdict |
|-----------|---------|-----------------|-----------|-----------|-----------|-------------|---------|
| Thread    | Ant1    | 2405            | 2.2760    | 2403.8282 | 2406.1042 | ---         | ---     |
|           |         | 2440            | 2.2762    | 2438.8272 | 2441.1034 | ---         | ---     |
|           |         | 2480            | 2.2938    | 2478.8181 | 2481.1119 | ---         | ---     |



Test Graphs

Thread\_Ant1\_2405



Thread\_Ant1\_2440



Thread\_Ant1\_2480



## Power Spectral Density

| Test Mode | Antenna | Frequency<br>(MHz) | Result<br>[dBm/3kHz] | Limit<br>[dBm/3kHz] | Verdict |
|-----------|---------|--------------------|----------------------|---------------------|---------|
| Thread    | Ant1    | 2405               | -6.40                | ≤8.00               | PASS    |
|           |         | 2440               | -6.25                | ≤8.00               | PASS    |
|           |         | 2480               | -6.17                | ≤8.00               | PASS    |



## Test Graphs

### Thread\_Ant1\_2405



### Thread\_Ant1\_2440



### Thread\_Ant1\_2480



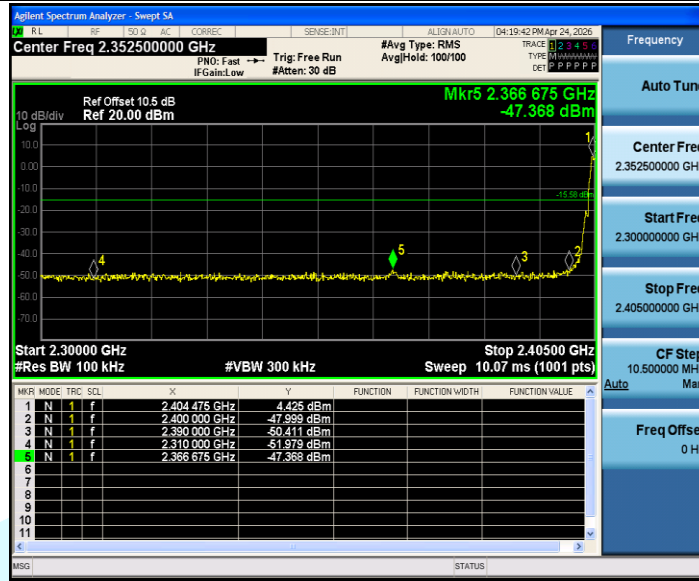
## Band-edge Emission

| Test Mode | Antenna | Ch Name | Frequency (MHz) | Ref Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|---------|-----------------|-----------------|--------------|-------------|---------|
| Thread    | Ant1    | Low     | 2405            | 4.43            | -47.37       | ≤-15.58     | PASS    |
|           |         | High    | 2480            | 4.51            | -42.61       | ≤-15.49     | PASS    |

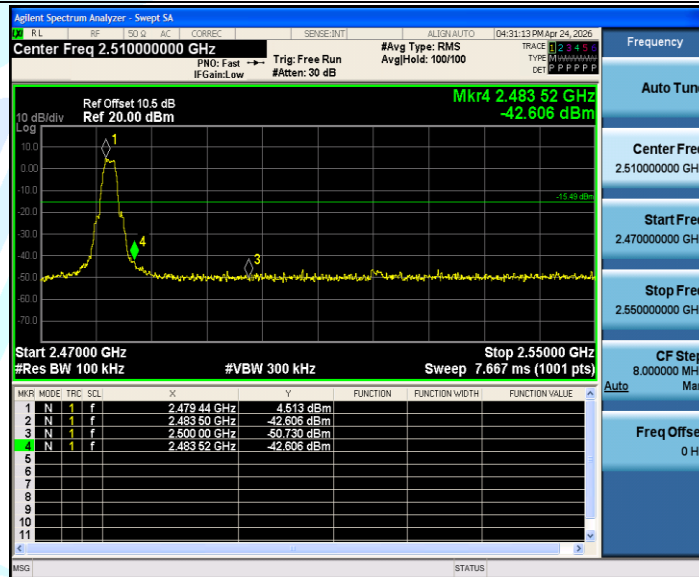


## Test Graphs

### Thread\_Ant1\_Low\_2405



### Thread\_Ant1\_High\_2480



## Conducted Spurious Emission

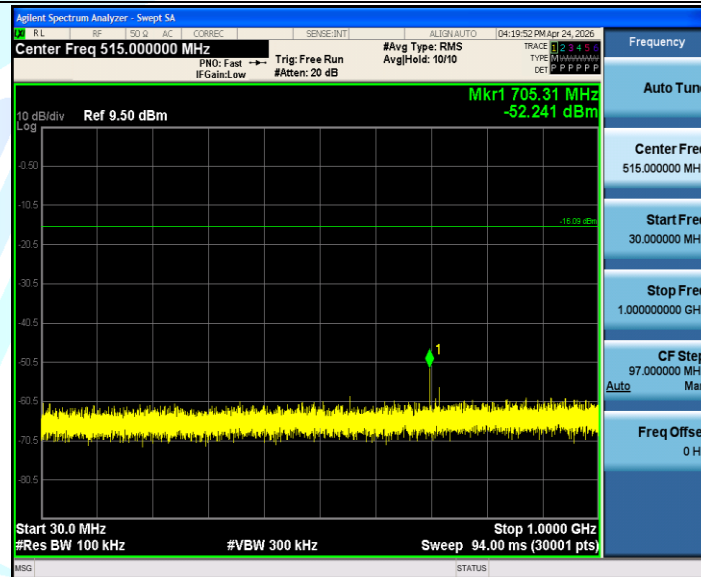
| Test Mode | Antenna | Frequency (MHz) | Freq Range [MHz] | Ref Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|------------------|-----------------|--------------|-------------|---------|
| Thread    | Ant1    | 2405            | Reference        | 3.91            | 3.91         | ---         | PASS    |
|           |         |                 | 30~1000          | 3.91            | -52.24       | ≤-16.09     | PASS    |
|           |         |                 | 1000~26500       | 3.91            | -43.5        | ≤-16.09     | PASS    |
|           |         | 2440            | Reference        | 3.58            | 3.58         | ---         | PASS    |
|           |         |                 | 30~1000          | 3.58            | -44.52       | ≤-16.42     | PASS    |
|           |         |                 | 1000~26500       | 3.58            | -43.7        | ≤-16.42     | PASS    |
|           |         | 2480            | Reference        | 2.97            | 2.97         | ---         | PASS    |
|           |         |                 | 30~1000          | 2.97            | -57.91       | ≤-17.03     | PASS    |
|           |         |                 | 1000~26500       | 2.97            | -44.09       | ≤-17.03     | PASS    |

## Test Graphs

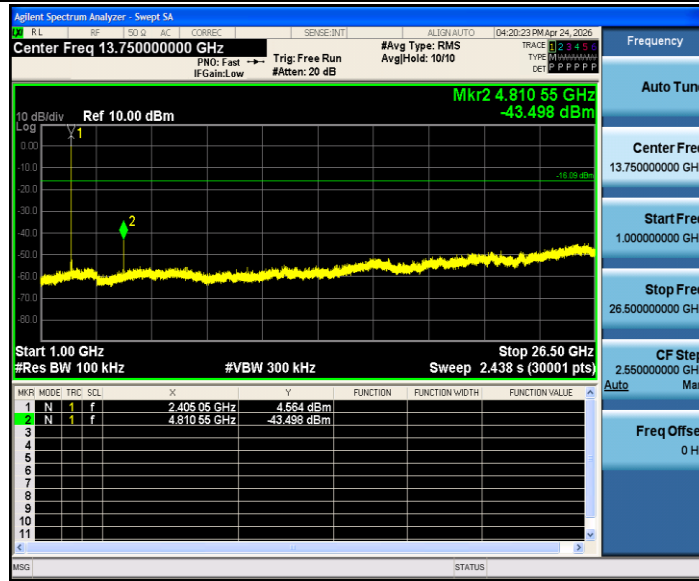
### Thread\_Ant1\_2405\_0~Reference



### Thread\_Ant1\_2405\_30~1000



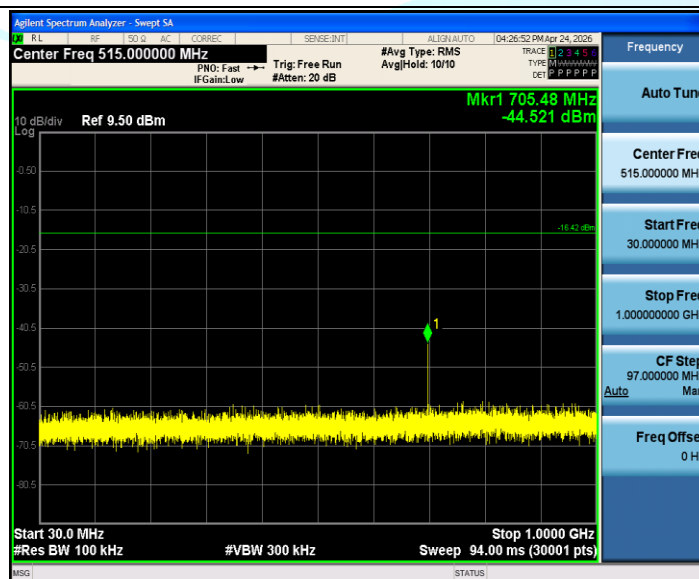
### Thread\_Ant1\_2405\_1000~26500



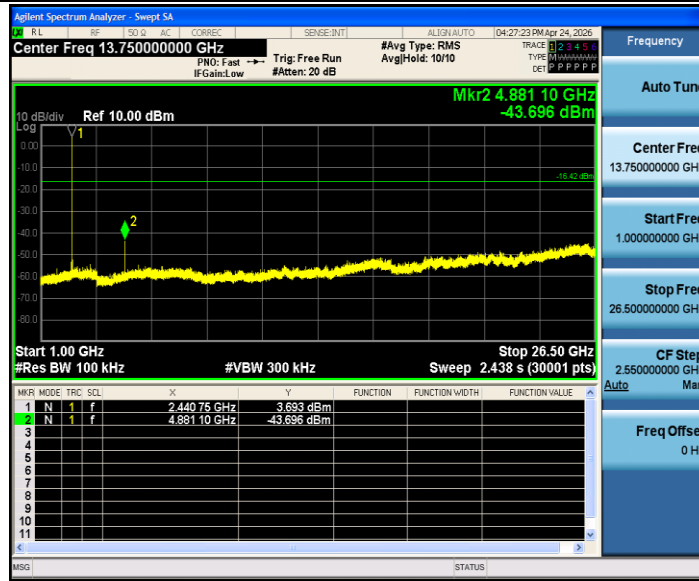
Thread\_Ant1\_2440\_0~Reference



Thread\_Ant1\_2440\_30~1000



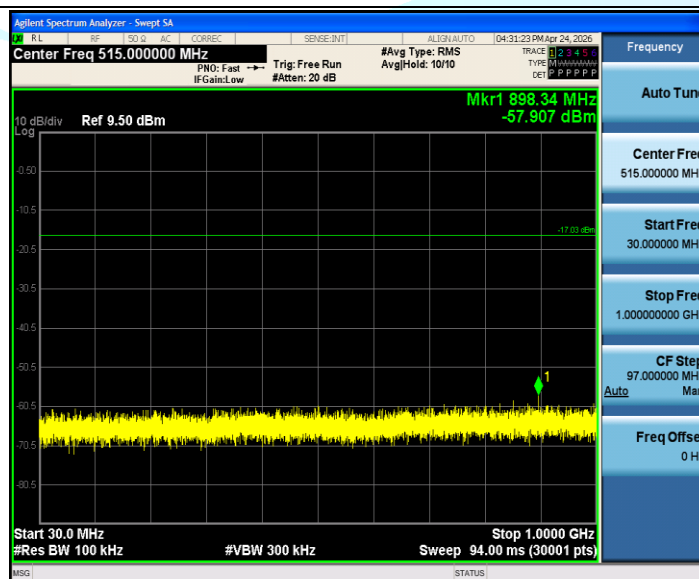
Thread\_Ant1\_2440\_1000~26500



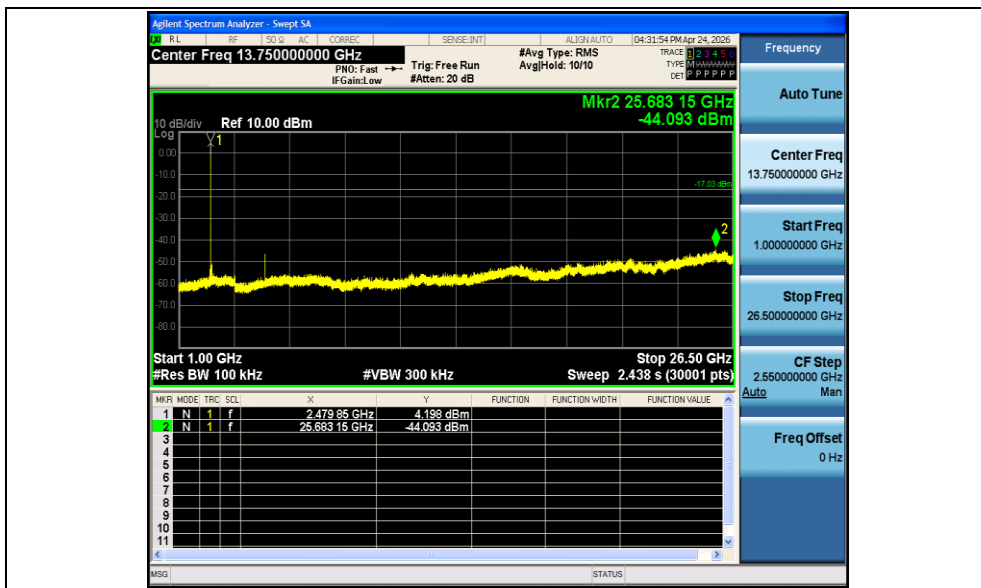
Thread\_Ant1\_2480\_0~Reference



Thread\_Ant1\_2480\_30~1000



Thread\_Ant1\_2480\_1000~26500



----- End -----