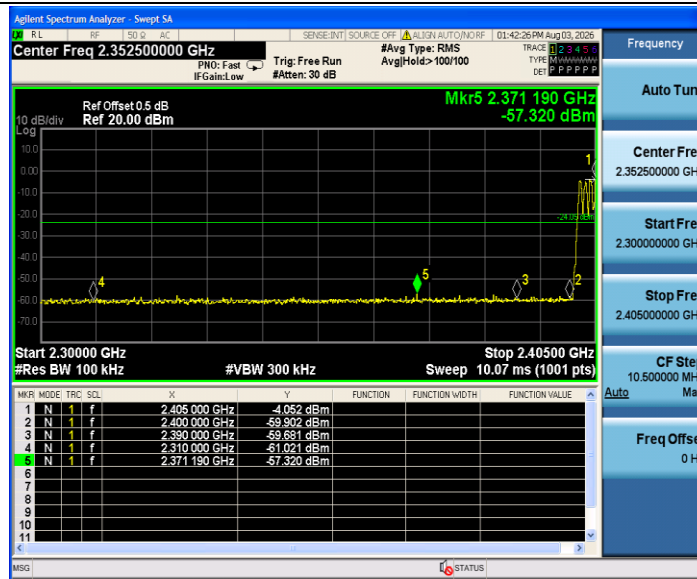
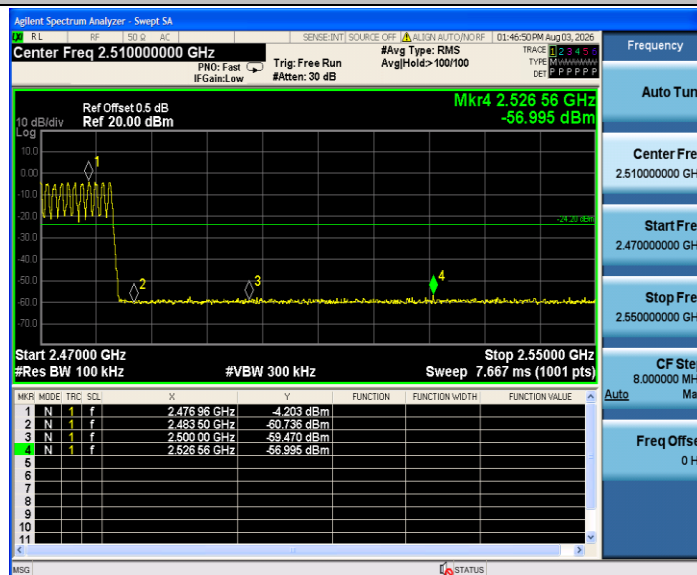
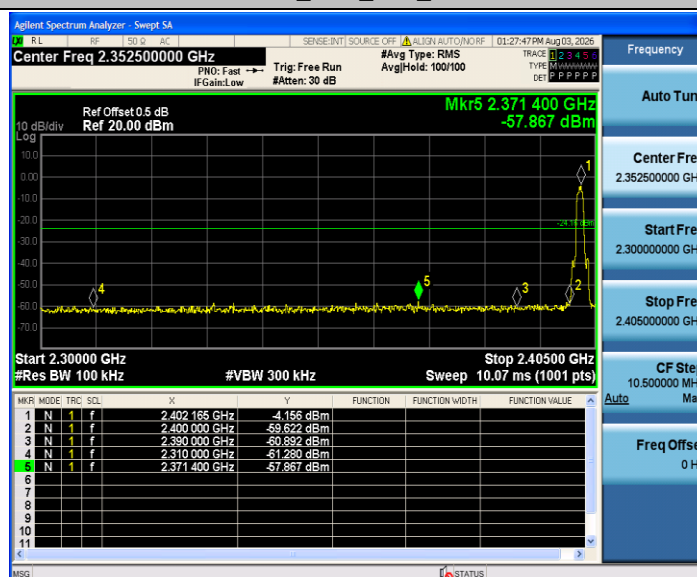




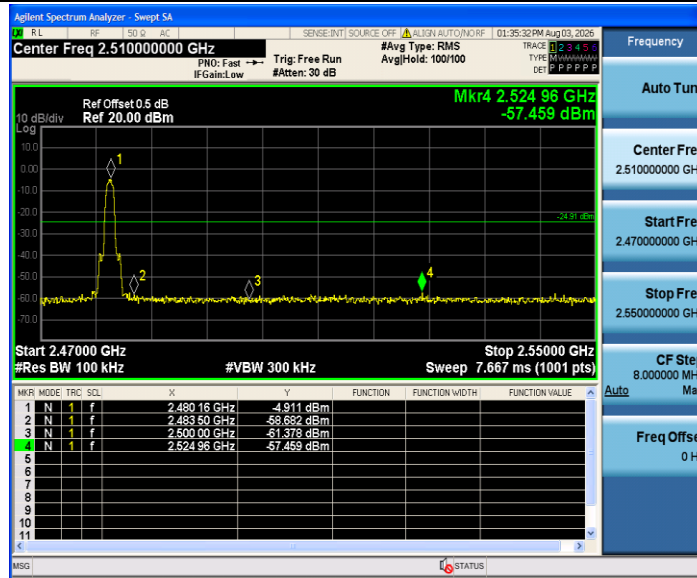
DH5\_Ant1\_High\_Hop\_2480



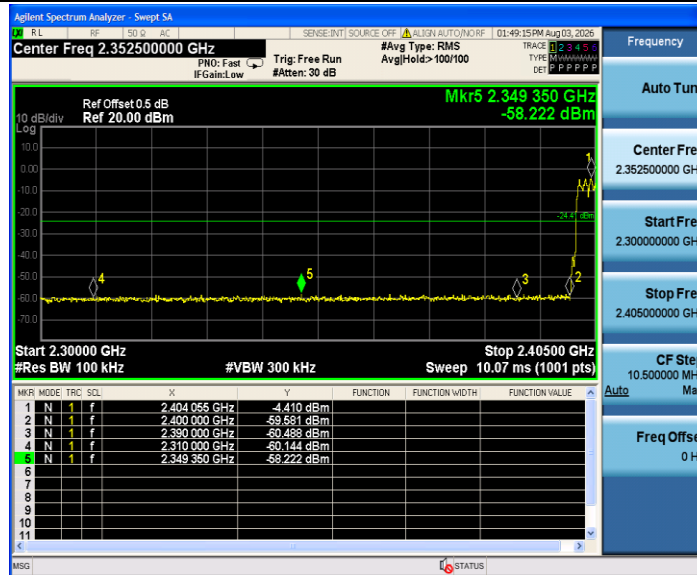
2DH5\_Ant1\_Low\_2402



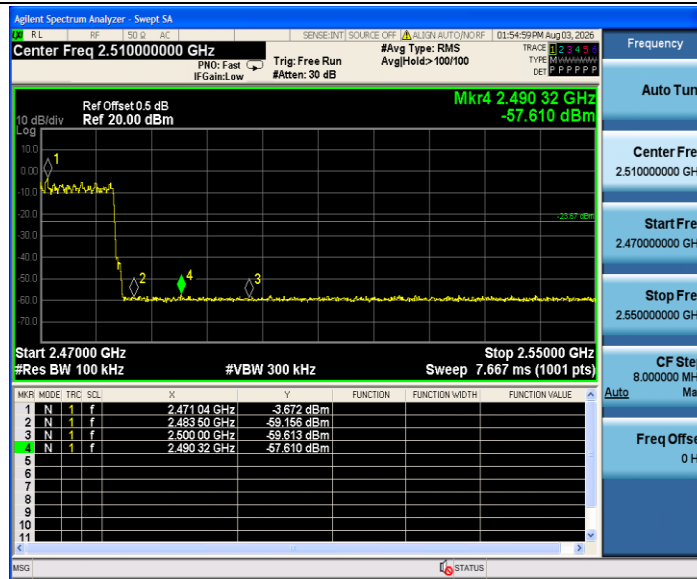
## 2DH5\_Ant1\_High\_2480



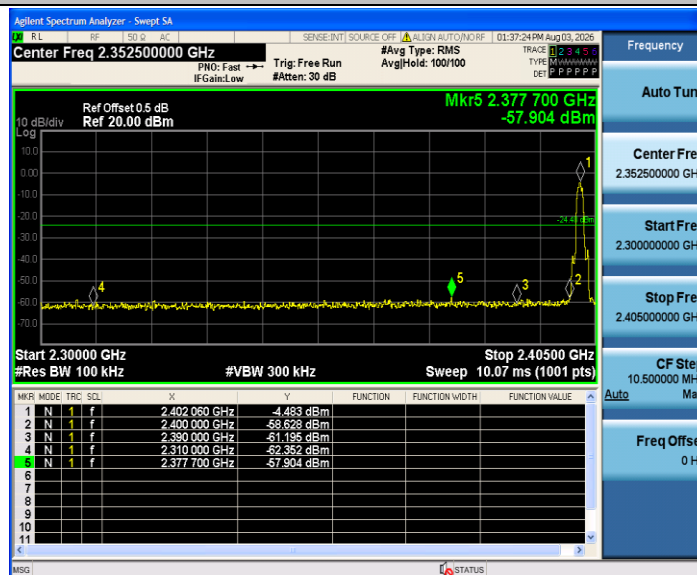
## 2DH5\_Ant1\_Low\_Hop\_2402



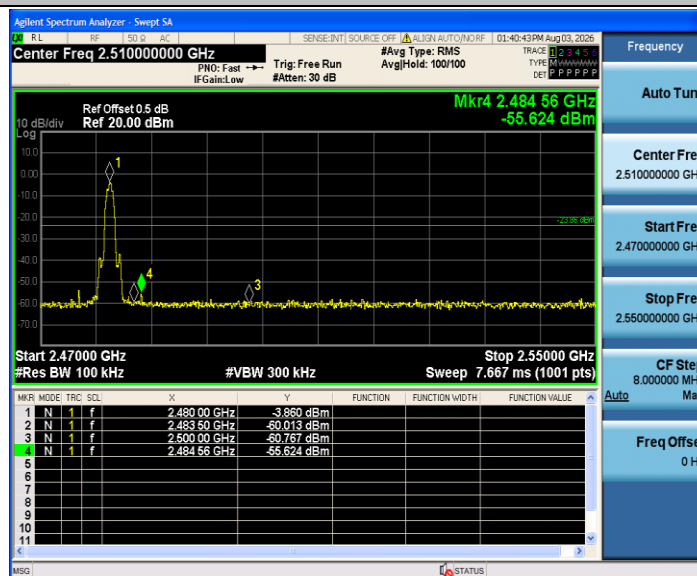
## 2DH5\_Ant1\_High\_Hop\_2480



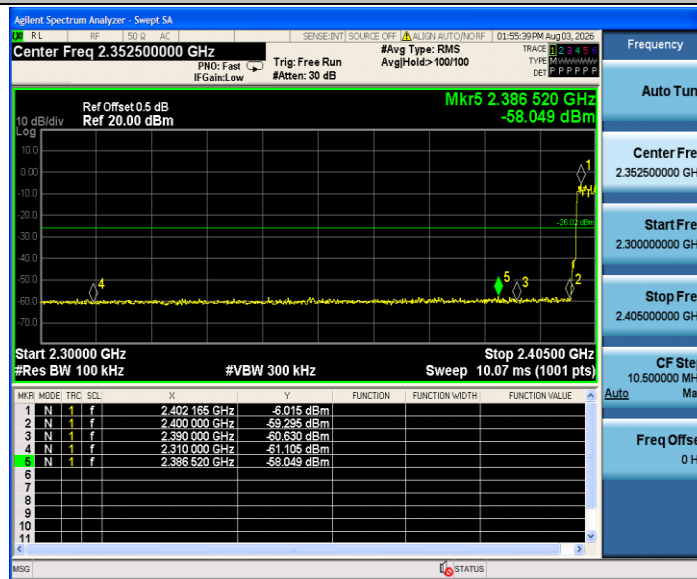
3DH5\_Ant1\_Low\_2402



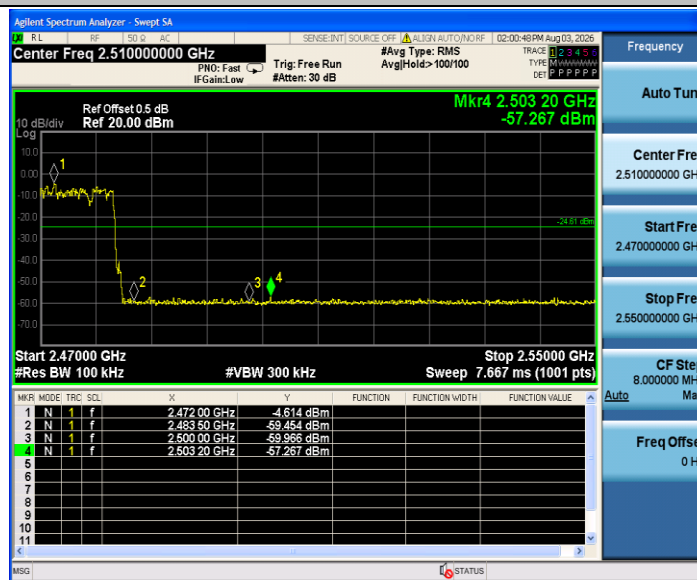
3DH5\_Ant1\_High\_2480



### 3DH5\_Ant1\_Low\_Hop\_2402



### 3DH5\_Ant1\_High\_Hop\_2480

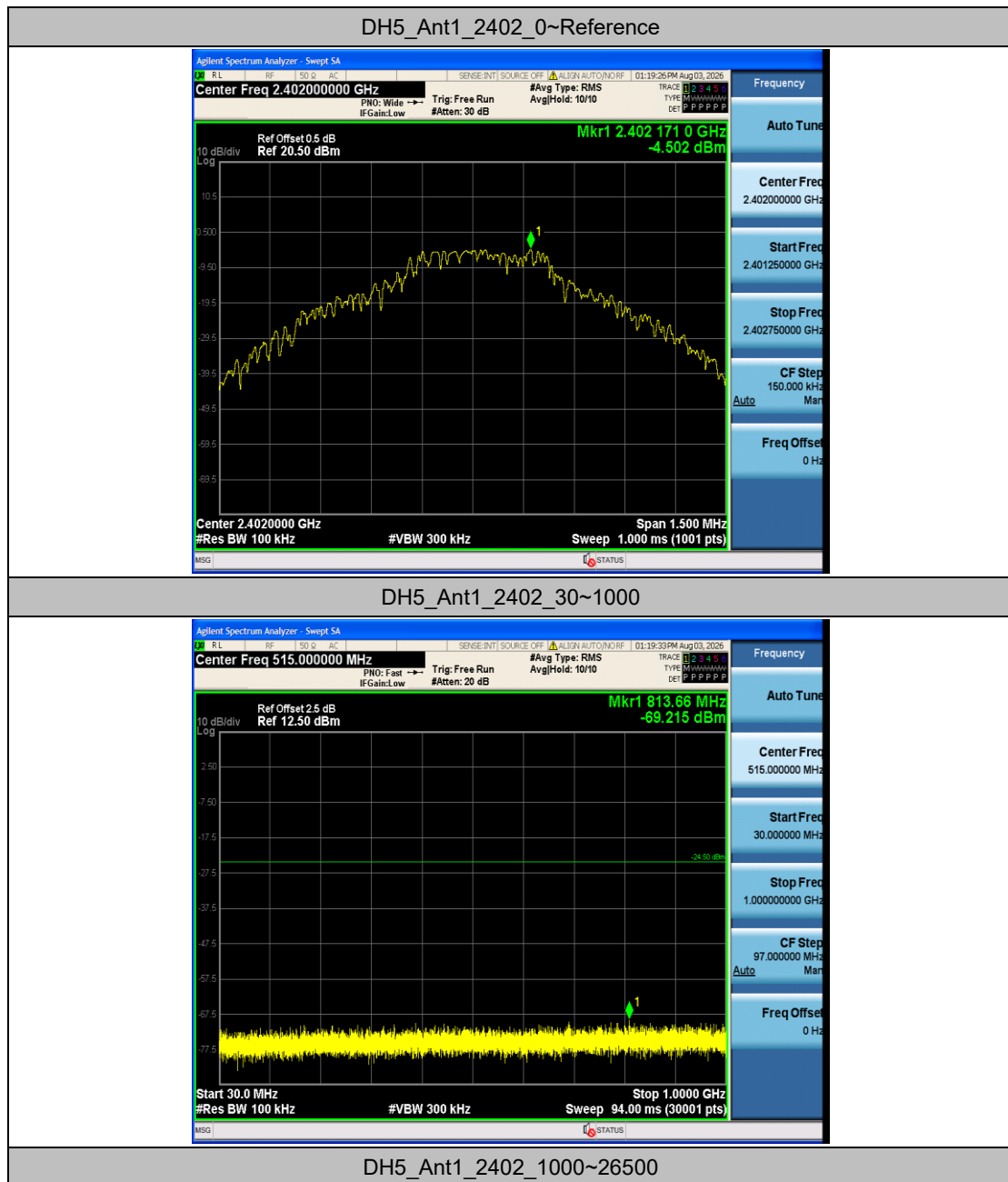


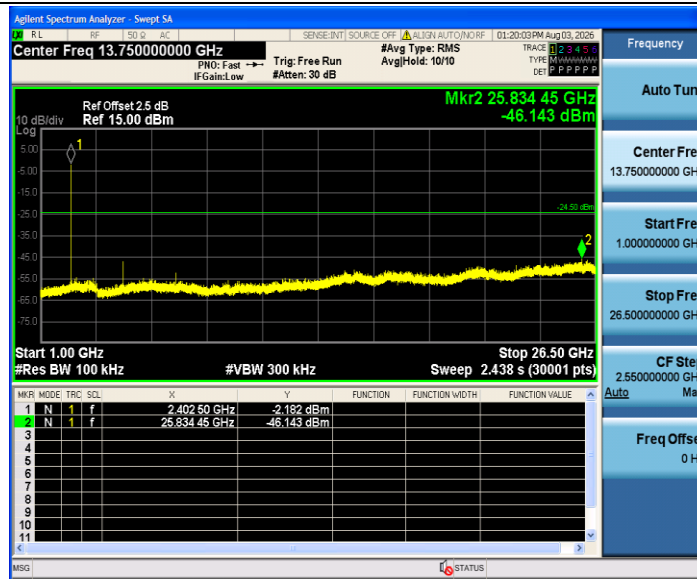
## Appendix H: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Freq(MHz) | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|-----------|-----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | 2402      | Reference       | -4.50          | -4.50        | ---         | PASS    |
|          |         |           | 30~1000         | -4.50          | -69.22       | ≤-24.5      | PASS    |
|          |         |           | 1000~26500      | -4.50          | -46.14       | ≤-24.5      | PASS    |
|          |         | 2441      | Reference       | -4.39          | -4.39        | ---         | PASS    |
|          |         |           | 30~1000         | -4.39          | -69.3        | ≤-24.39     | PASS    |
|          |         |           | 1000~26500      | -4.39          | -46.76       | ≤-24.39     | PASS    |
|          |         | 2480      | Reference       | -5.06          | -5.06        | ---         | PASS    |
|          |         |           | 30~1000         | -5.06          | -68.8        | ≤-25.06     | PASS    |
|          |         |           | 1000~26500      | -5.06          | -47.23       | ≤-25.06     | PASS    |
| 2DH5     | Ant1    | 2402      | Reference       | -6.19          | -6.19        | ---         | PASS    |
|          |         |           | 30~1000         | -6.19          | -69.18       | ≤-26.19     | PASS    |
|          |         |           | 1000~26500      | -6.19          | -46.39       | ≤-26.19     | PASS    |
|          |         | 2441      | Reference       | -4.82          | -4.82        | ---         | PASS    |
|          |         |           | 30~1000         | -4.82          | -68.13       | ≤-24.82     | PASS    |
|          |         |           | 1000~26500      | -4.82          | -45.64       | ≤-24.82     | PASS    |
|          |         | 2480      | Reference       | -5.31          | -5.31        | ---         | PASS    |
|          |         |           | 30~1000         | -5.31          | -68.81       | ≤-25.31     | PASS    |
|          |         |           | 1000~26500      | -5.31          | -46.25       | ≤-25.31     | PASS    |
| 3DH5     | Ant1    | 2402      | Reference       | -6.36          | -6.36        | ---         | PASS    |
|          |         |           | 30~1000         | -6.36          | -69.12       | ≤-26.36     | PASS    |
|          |         |           | 1000~26500      | -6.36          | -44.47       | ≤-26.36     | PASS    |
|          |         | 2441      | Reference       | -6.34          | -6.34        | ---         | PASS    |
|          |         |           | 30~1000         | -6.34          | -68.93       | ≤-26.34     | PASS    |
|          |         |           | 1000~26500      | -6.34          | -46.72       | ≤-26.34     | PASS    |
|          |         | 2480      | Reference       | -4.36          | -4.36        | ---         | PASS    |
|          |         |           | 30~1000         | -4.36          | -69.3        | ≤-24.36     | PASS    |
|          |         |           | 1000~26500      | -4.36          | -46.71       | ≤-24.36     | PASS    |

## Test Graphs

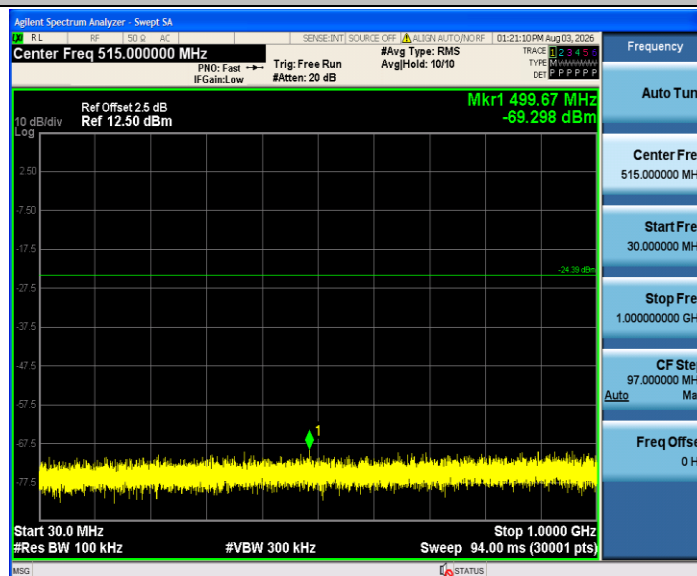




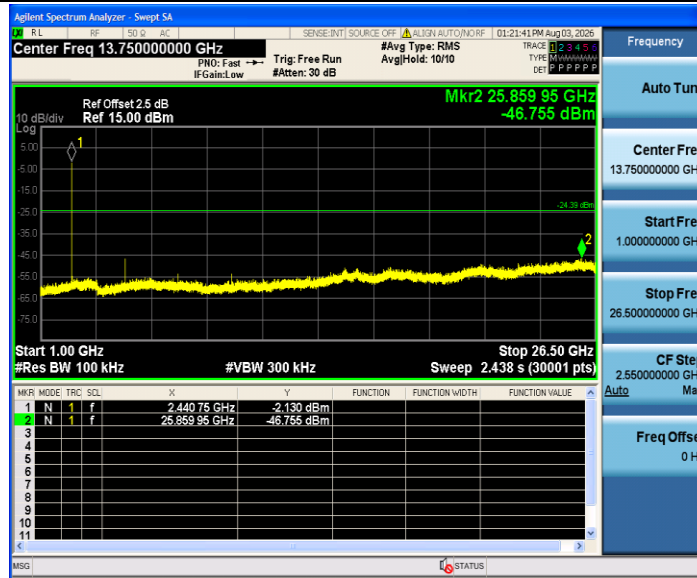
DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000



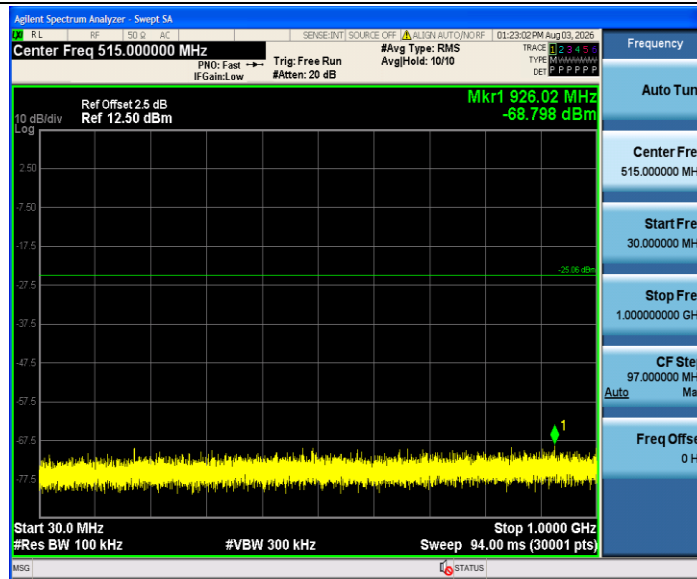
# DH5\_Ant1\_2441\_1000~26500



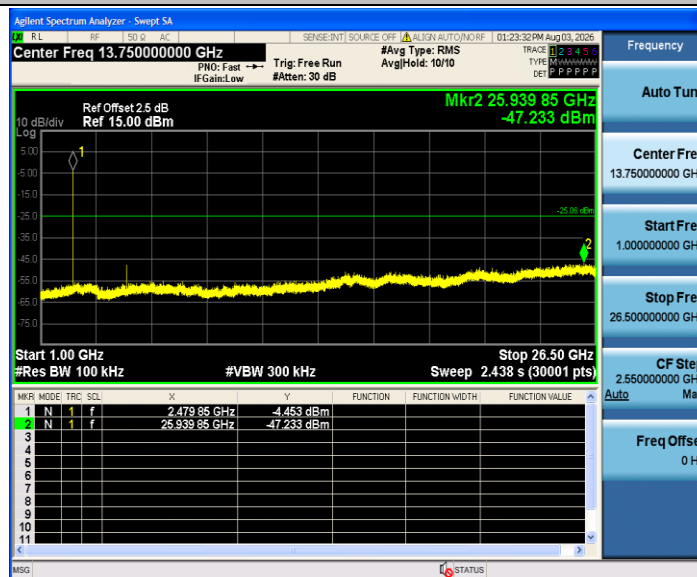
# DH5\_Ant1\_2480\_0~Reference



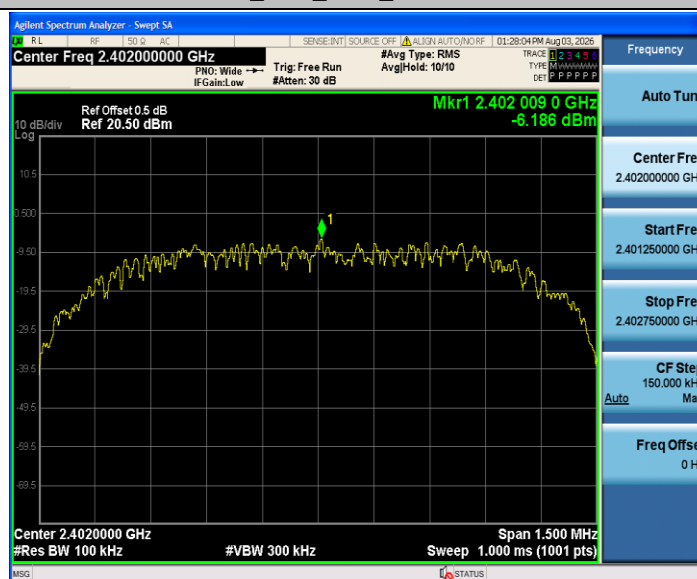
# DH5\_Ant1\_2480\_30~1000



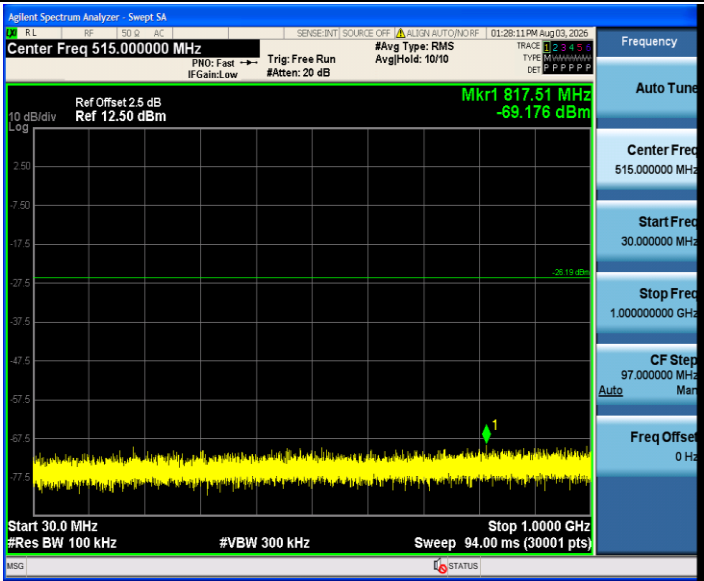
DH5\_Ant1\_2480\_1000~26500



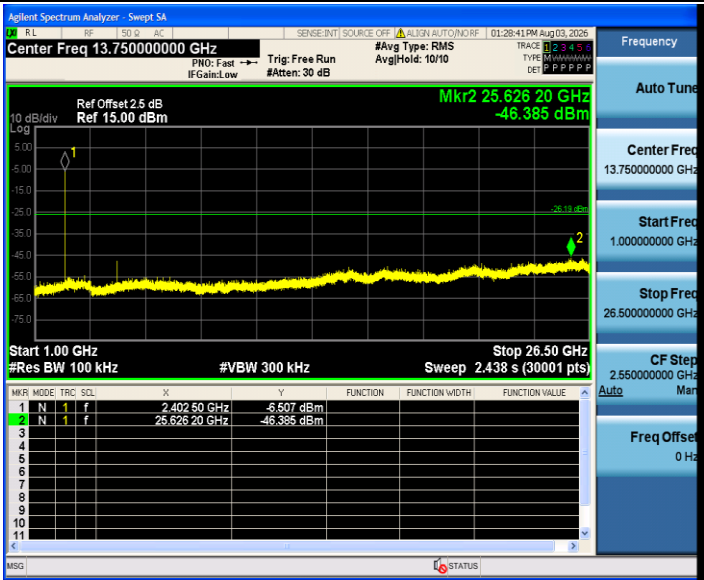
2DH5\_Ant1\_2402\_0~Reference



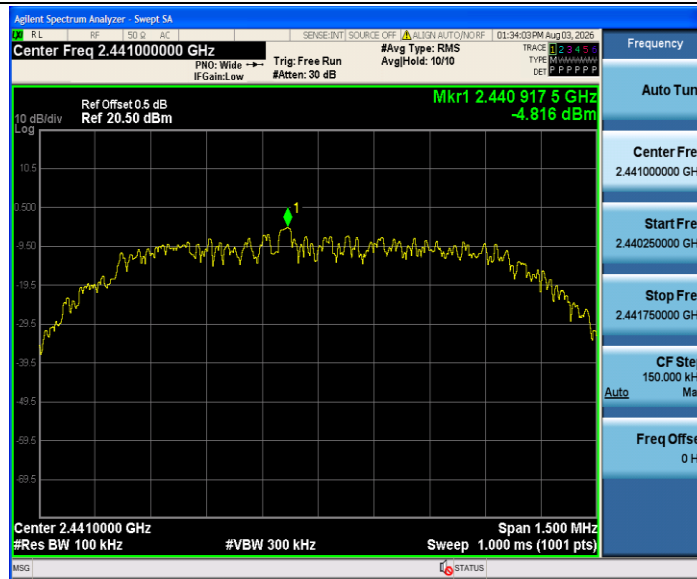
2DH5\_Ant1\_2402\_30~1000



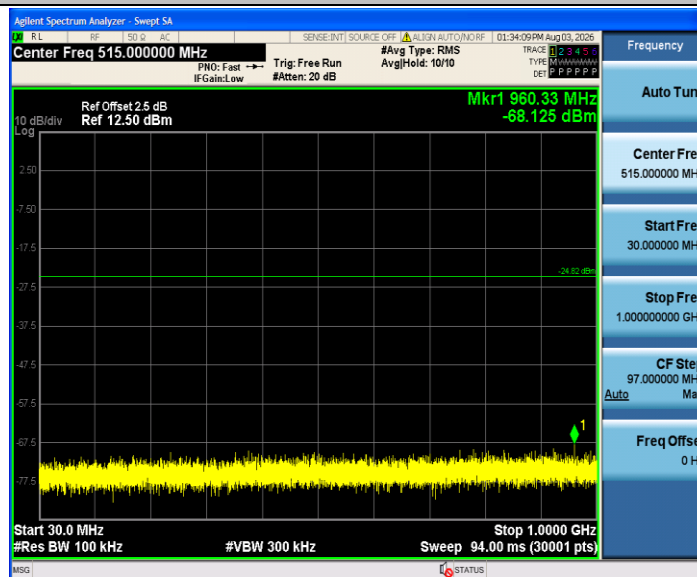
2DH5\_Ant1\_2402\_1000~26500



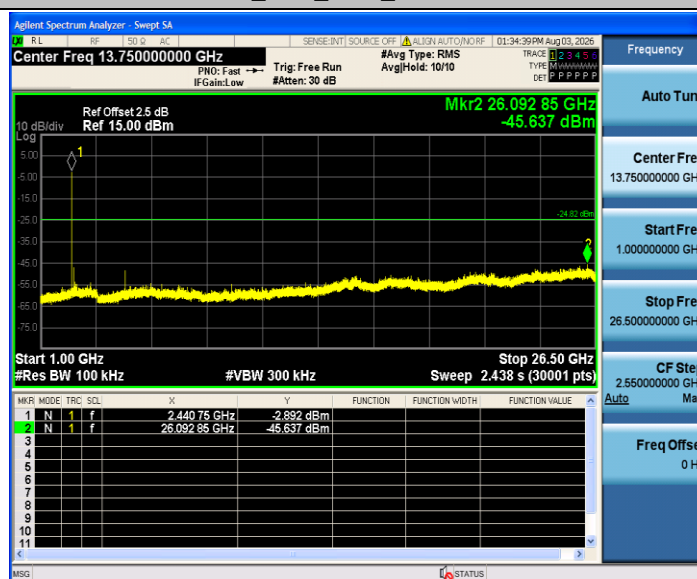
2DH5\_Ant1\_2441\_0~Reference



2DH5\_Ant1\_2441\_30~1000



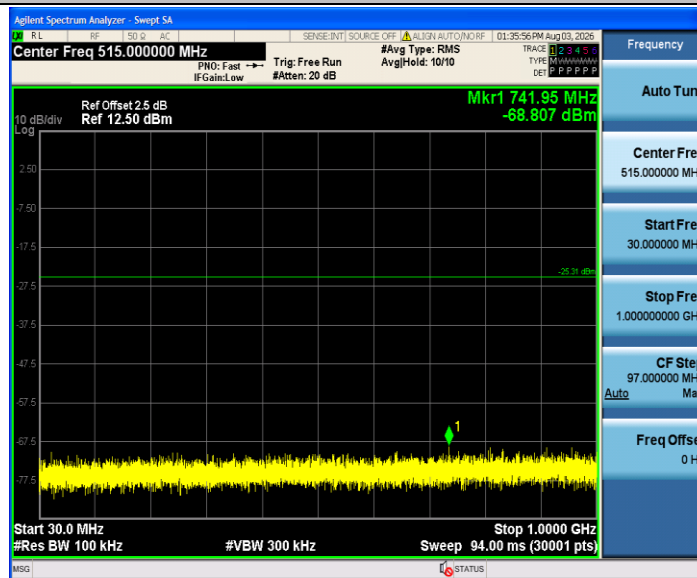
2DH5\_Ant1\_2441\_1000~26500



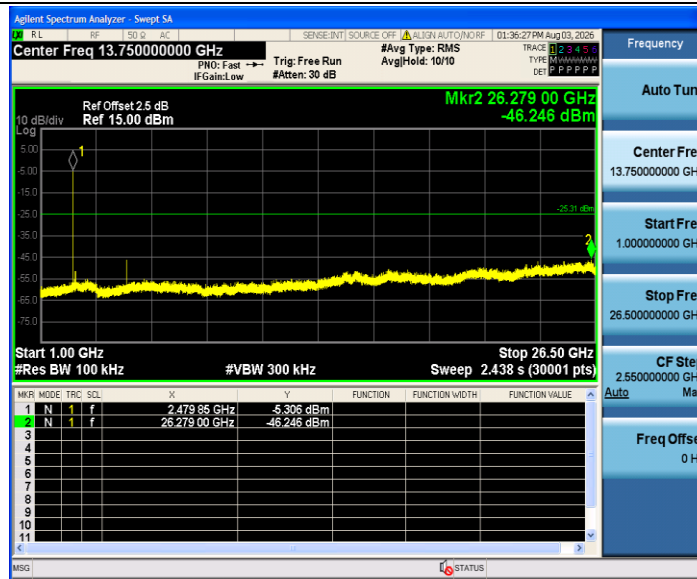
# 2DH5\_Ant1\_2480\_0~Reference



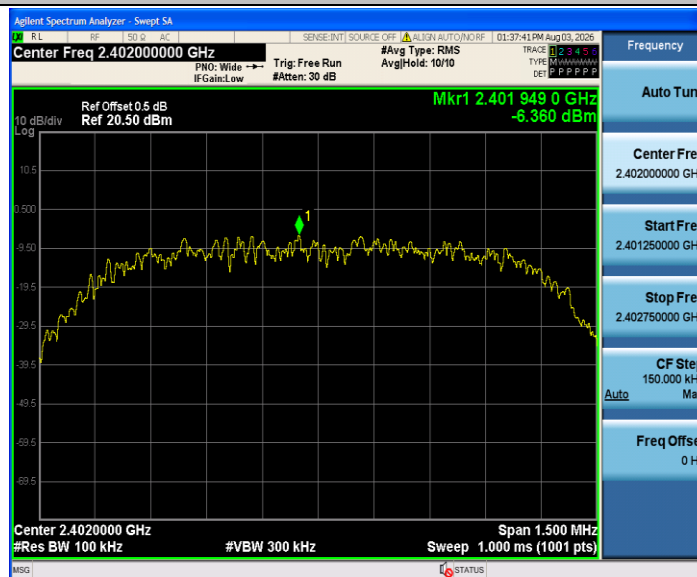
# 2DH5\_Ant1\_2480\_30~1000



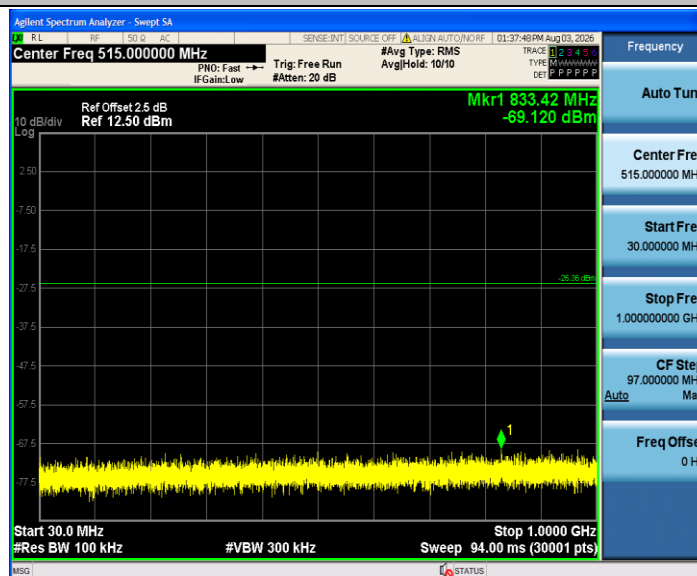
# 2DH5\_Ant1\_2480\_1000~26500



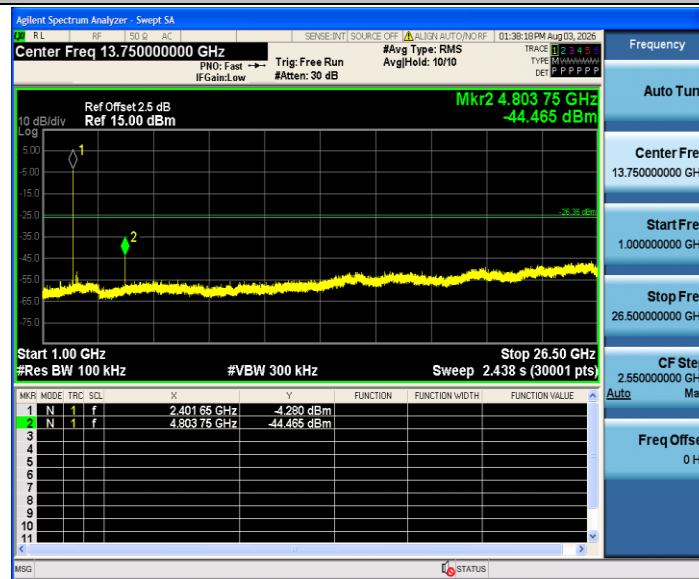
3DH5\_Ant1\_2402\_0~Reference



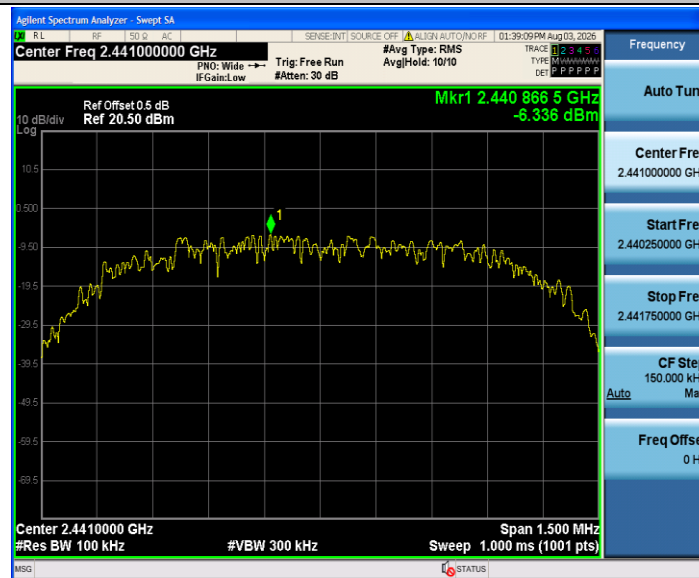
3DH5\_Ant1\_2402\_30~1000



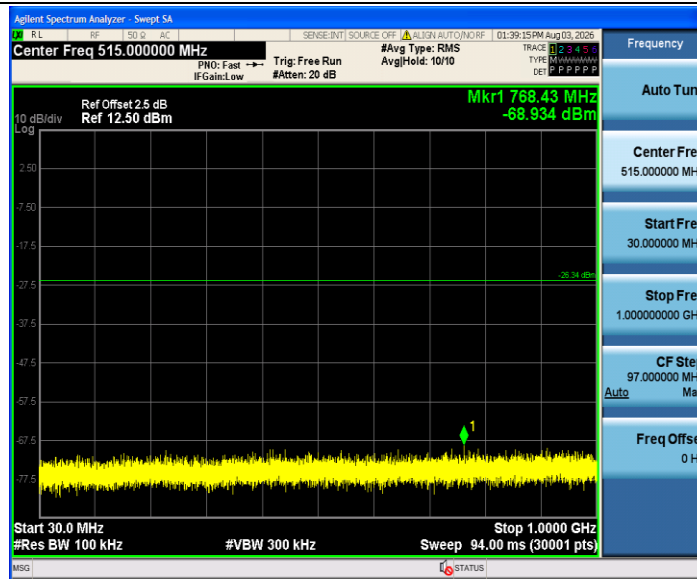
### 3DH5\_Ant1\_2402\_1000~26500



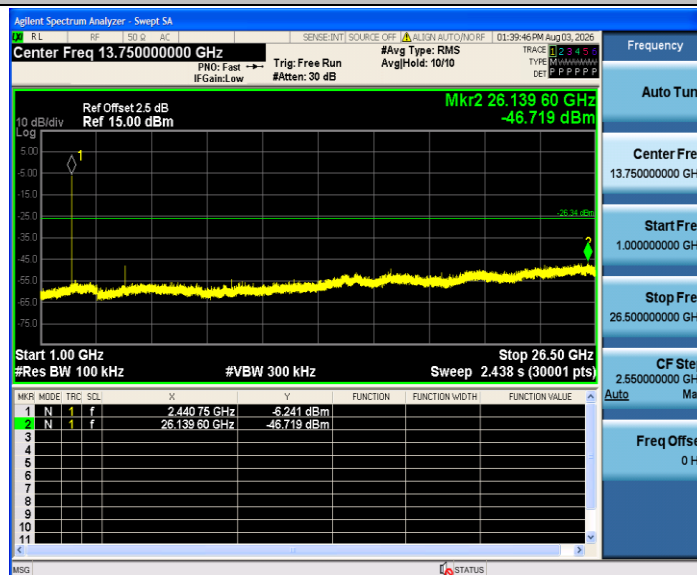
### 3DH5\_Ant1\_2441\_0~Reference



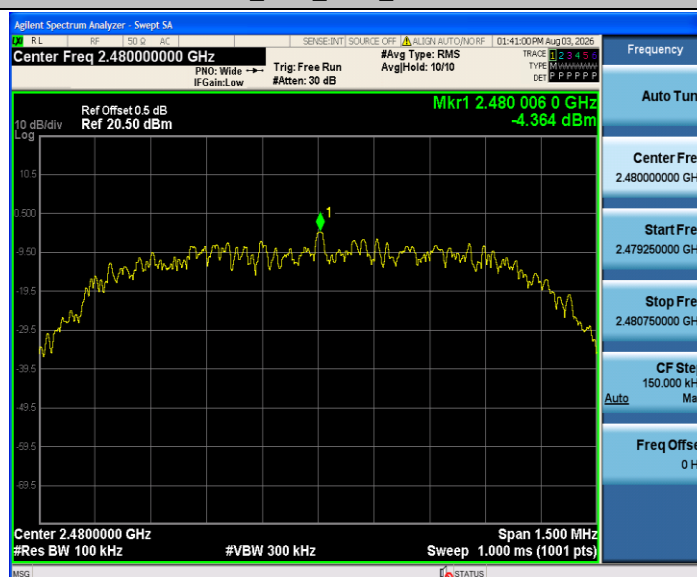
### 3DH5\_Ant1\_2441\_30~1000



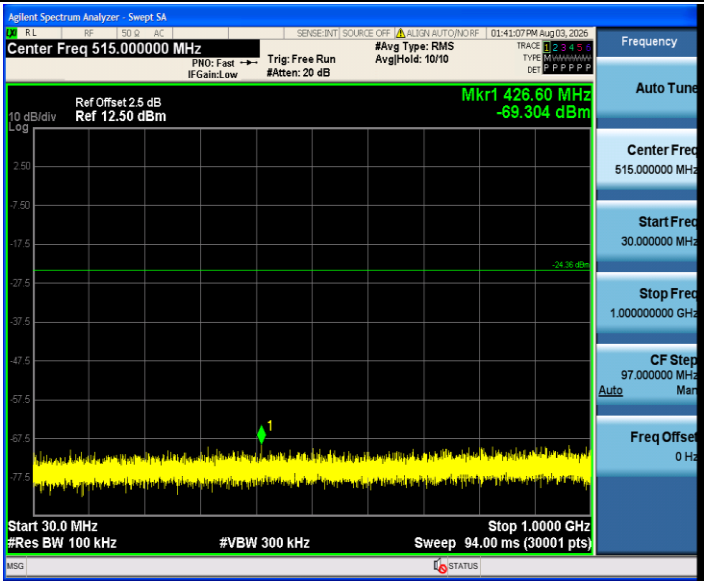
3DH5\_Ant1\_2441\_1000~26500



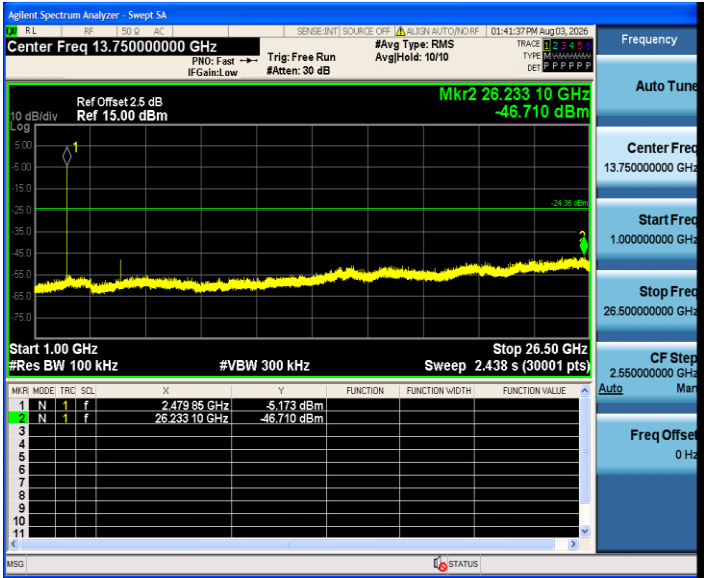
3DH5\_Ant1\_2480\_0~Reference



3DH5\_Ant1\_2480\_30~1000



3DH5\_Ant1\_2480\_1000~26500



## Appendix I: Duty Cycle

### Test Result

| TestMode | Antenna | Freq(MHz) | ON Time<br>[ms] | Period<br>[ms] | DC<br>[%] | xFactor | Limit | Verdict |
|----------|---------|-----------|-----------------|----------------|-----------|---------|-------|---------|
| DH5      | Ant1    | 2402      | 2.91            | 3.75           | 77.60     | 1.10    | ---   | ---     |
|          |         | 2441      | 2.91            | 3.75           | 77.60     | 1.10    | ---   | ---     |
|          |         | 2480      | 2.91            | 3.75           | 77.60     | 1.10    | ---   | ---     |
| 2DH5     | Ant1    | 2402      | 2.92            | 3.75           | 77.87     | 1.09    | ---   | ---     |
|          |         | 2441      | 2.92            | 3.75           | 77.87     | 1.09    | ---   | ---     |
|          |         | 2480      | 2.92            | 3.76           | 77.66     | 1.10    | ---   | ---     |
| 3DH5     | Ant1    | 2402      | 2.92            | 3.76           | 77.66     | 1.10    | ---   | ---     |
|          |         | 2441      | 2.92            | 3.76           | 77.66     | 1.10    | ---   | ---     |
|          |         | 2480      | 2.92            | 3.75           | 77.87     | 1.09    | ---   | ---     |

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.402000000 GHz

Trig Delay: 2.000 ms

Trig: Video

#Avg Type: RMS

Ref Offset: 0.5 dB

Ref: 10.50 dBm

ΔMkr3 3.750 ms

4.47 dB

2Δ1

3Δ1

Center 2.402000000 GHz

Res BW 8 MHz

#VBW 8.0 MHz

Sweep 7.000 ms (1001 pts)

Span 0 Hz

| MKR | MODE | TRIG | SOL | X        | Y            | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------|------|-----|----------|--------------|----------|----------------|----------------|
| 1   | N    | 1    | t   | 1.980 ms | -15.29 dBm   |          |                |                |
| 2   | Δ1   | 1    | t   | (Δ)      | 2.910 ms (Δ) | 11.00 dB |                |                |
| 3   | Δ1   | 1    | t   | (Δ)      | 3.750 ms (Δ) | 4.47 dB  |                |                |

Frequency

Auto Tune

Center Freq 2.402000000 GHz

Start Freq 2.402000000 GHz

Stop Freq 2.402000000 GHz

CF Step 8.000000 MHz

Freq Offset 0 Hz

DH5\_Ant1\_2402

DH5\_Ant1\_2441

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig Delay: 2.000 ms

Trig: Video

#Avg Type: RMS

Ref Offset: 0.5 dB

Ref: 10.50 dBm

ΔMkr3 3.750 ms

4.06 dB

2Δ1

3Δ1

Center 2.441000000 GHz

Res BW 8 MHz

#VBW 8.0 MHz

Sweep 7.000 ms (1001 pts)

Span 0 Hz

| MKR | MODE | TRIG | SOL | X        | Y            | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------|------|-----|----------|--------------|----------|----------------|----------------|
| 1   | N    | 1    | t   | 1.980 ms | -16.37 dBm   |          |                |                |
| 2   | Δ1   | 1    | t   | (Δ)      | 2.910 ms (Δ) | 12.40 dB |                |                |
| 3   | Δ1   | 1    | t   | (Δ)      | 3.750 ms (Δ) | 4.06 dB  |                |                |

Frequency

Auto Tune

Center Freq 2.441000000 GHz

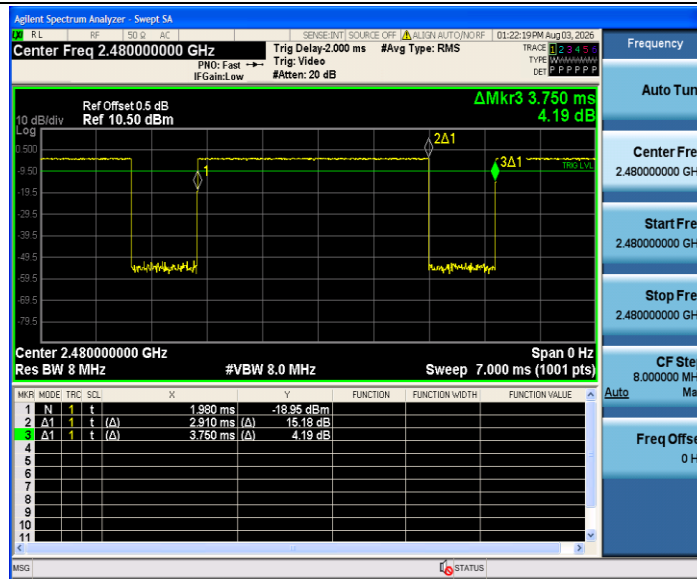
Start Freq 2.441000000 GHz

Stop Freq 2.441000000 GHz

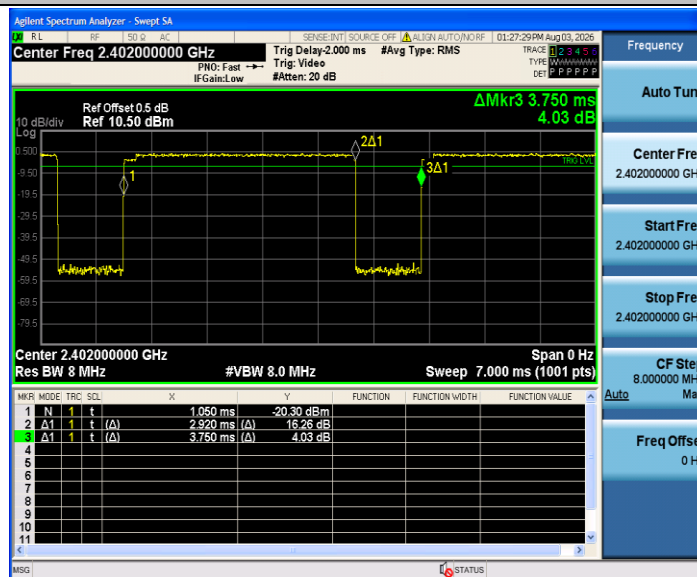
CF Step 8.000000 MHz

Freq Offset 0 Hz

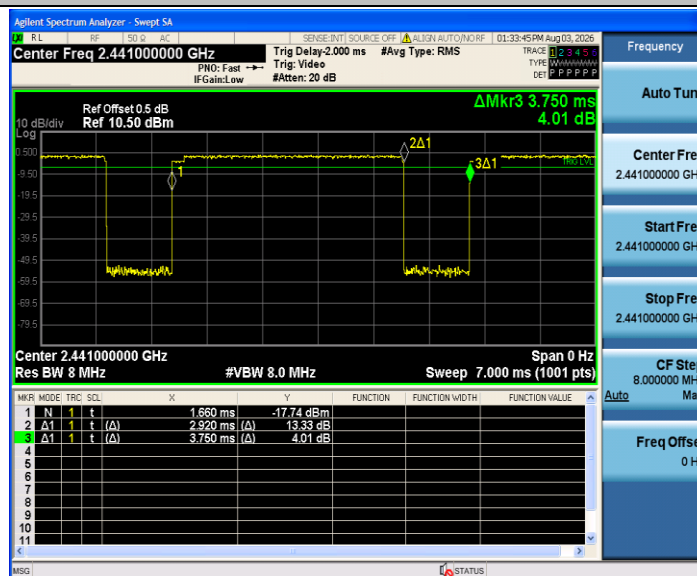
DH5\_Ant1\_2480



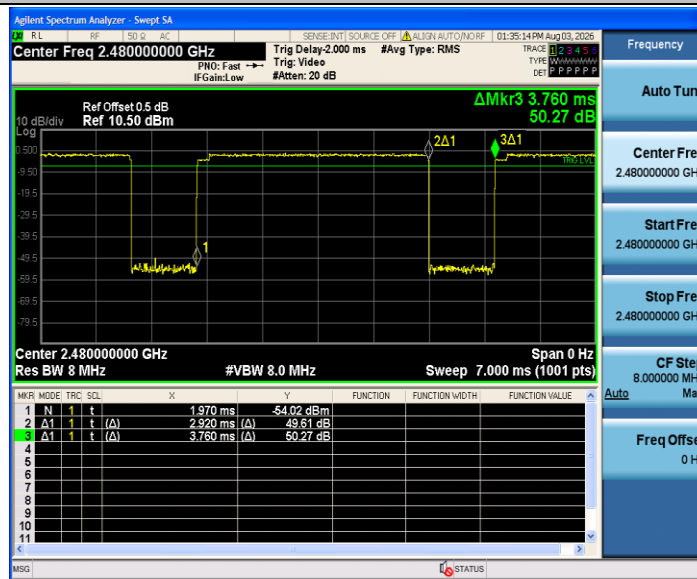
2DH5\_Ant1\_2402



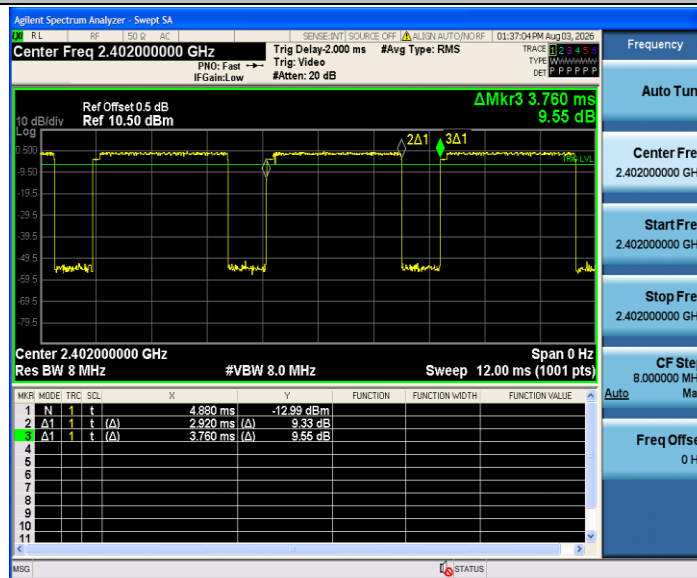
2DH5\_Ant1\_2441



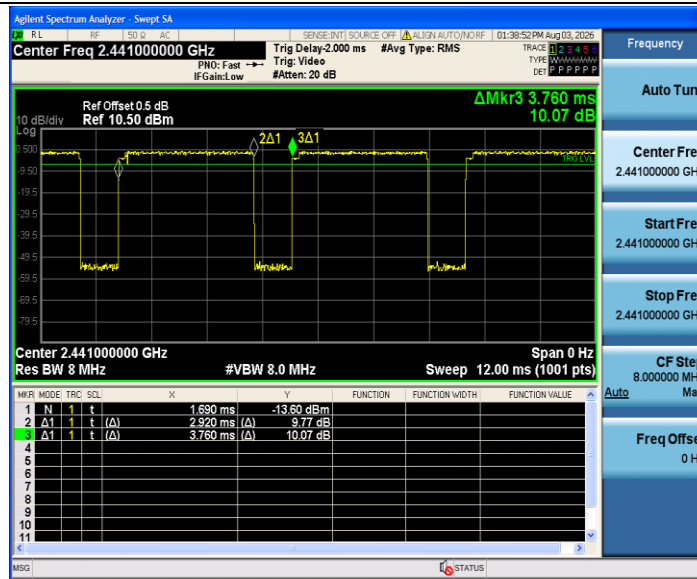
### 2DH5\_Ant1\_2480



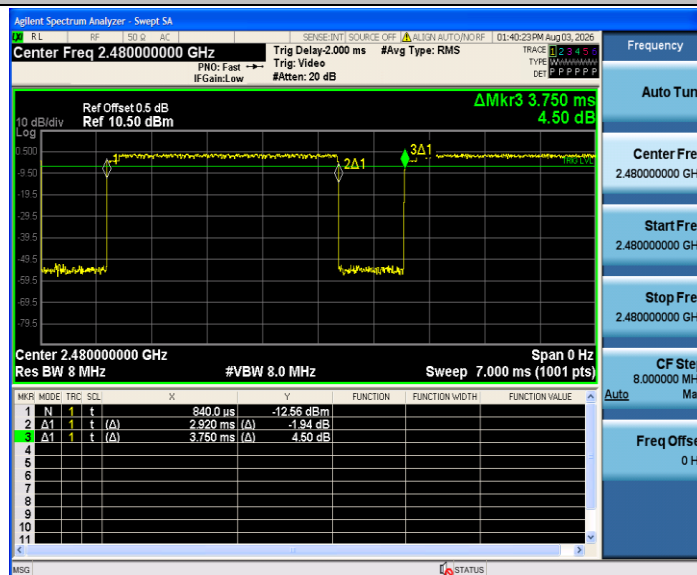
### 3DH5\_Ant1\_2402



### 3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



## Appendix J: Emissions in Restricted Bands

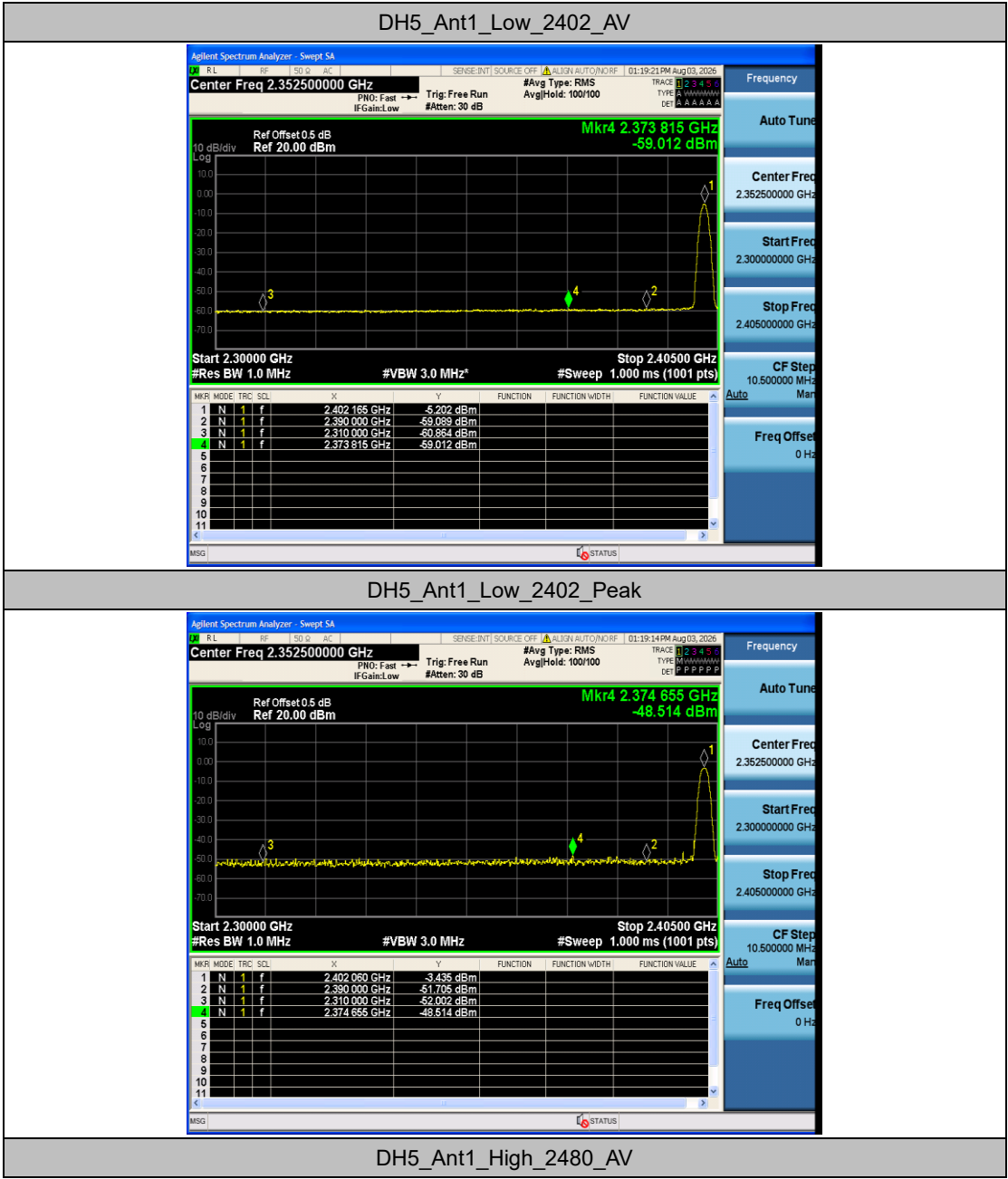
### Test Result

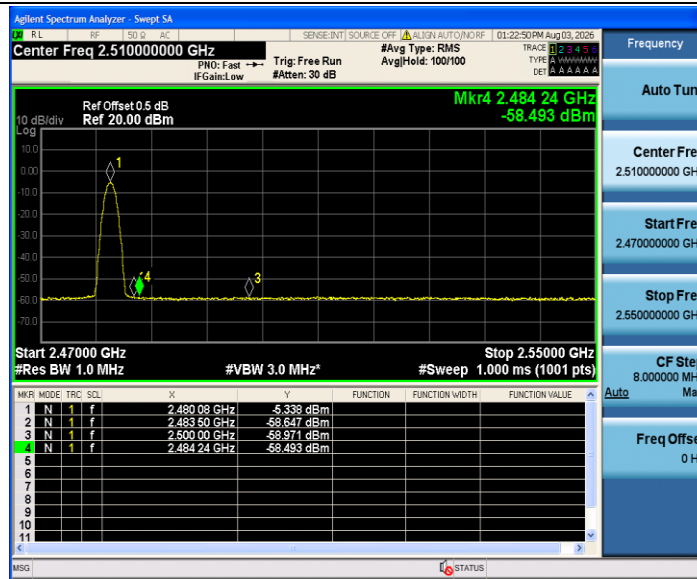
| TestMod<br>e | Antenn<br>a | ChNam<br>e | Freq(MH<br>z) | Detector | Freq<br>[MHz] | Result<br>[dBm] | Gain<br>[dB] | DC<br>Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Verdict |
|--------------|-------------|------------|---------------|----------|---------------|-----------------|--------------|----------------------|--------------------|-------------------|---------|
| DH5          | Ant1        | Low        | 2402          | AV       | 2310.000      | -60.86          | 2.00         | 1.10                 | 37.44              | ≤54               | PASS    |
|              |             |            |               | AV       | 2373.815      | -59.01          | 2.00         | 1.10                 | 39.29              | ≤54               | PASS    |
|              |             |            |               | AV       | 2390.000      | -59.09          | 2.00         | 1.10                 | 39.21              | ≤54               | PASS    |
|              |             |            |               | Peak     | 2310.000      | -52             | 2.00         | 0.00                 | 45.20              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2374.655      | -48.51          | 2.00         | 0.00                 | 48.69              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2390.000      | -51.71          | 2.00         | 0.00                 | 45.49              | ≤74               | PASS    |
|              |             | High       | 2480          | AV       | 2483.500      | -58.65          | 2.00         | 1.10                 | 39.65              | ≤54               | PASS    |
|              |             |            |               | AV       | 2484.240      | -58.49          | 2.00         | 1.10                 | 39.81              | ≤54               | PASS    |
|              |             |            |               | AV       | 2500.000      | -58.97          | 2.00         | 1.10                 | 39.33              | ≤54               | PASS    |
|              |             |            |               | Peak     | 2483.500      | -50.97          | 2.00         | 0.00                 | 46.23              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2484.080      | -47.97          | 2.00         | 0.00                 | 49.23              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2500.000      | -50.67          | 2.00         | 0.00                 | 46.53              | ≤74               | PASS    |
| 2DH5         | Ant1        | Low        | 2402          | AV       | 2310.000      | -60.16          | 2.00         | 1.09                 | 38.13              | ≤54               | PASS    |
|              |             |            |               | AV       | 2366.465      | -59.02          | 2.00         | 1.09                 | 39.27              | ≤54               | PASS    |
|              |             |            |               | AV       | 2390.000      | -59.43          | 2.00         | 1.09                 | 38.86              | ≤54               | PASS    |
|              |             |            |               | Peak     | 2310.000      | -52.71          | 2.00         | 0.00                 | 44.49              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2356.385      | -47.96          | 2.00         | 0.00                 | 49.24              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2390.000      | -50.84          | 2.00         | 0.00                 | 46.36              | ≤74               | PASS    |
|              |             | High       | 2480          | AV       | 2483.500      | -58.67          | 2.00         | 1.10                 | 39.63              | ≤54               | PASS    |
|              |             |            |               | AV       | 2484.080      | -58.44          | 2.00         | 1.10                 | 39.86              | ≤54               | PASS    |
|              |             |            |               | AV       | 2500.000      | -59.28          | 2.00         | 1.10                 | 39.02              | ≤54               | PASS    |
|              |             |            |               | Peak     | 2483.500      | -51.16          | 2.00         | 0.00                 | 46.04              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2484.800      | -48.36          | 2.00         | 0.00                 | 48.84              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2500.000      | -51.27          | 2.00         | 0.00                 | 45.93              | ≤74               | PASS    |
| 3DH5         | Ant1        | Low        | 2402          | AV       | 2310.000      | -61.12          | 2.00         | 1.10                 | 37.18              | ≤54               | PASS    |
|              |             |            |               | AV       | 2382.845      | -59.04          | 2.00         | 1.10                 | 39.26              | ≤54               | PASS    |
|              |             |            |               | AV       | 2390.000      | -59.57          | 2.00         | 1.10                 | 38.73              | ≤54               | PASS    |
|              |             |            |               | Peak     | 2310.000      | -52.57          | 2.00         | 0.00                 | 44.63              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2372.030      | -49.25          | 2.00         | 0.00                 | 47.95              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2390.000      | -52.48          | 2.00         | 0.00                 | 44.72              | ≤74               | PASS    |
|              |             | High       | 2480          | AV       | 2483.500      | -59.24          | 2.00         | 1.09                 | 39.05              | ≤54               | PASS    |
|              |             |            |               | AV       | 2484.160      | -58.35          | 2.00         | 1.09                 | 39.94              | ≤54               | PASS    |
|              |             |            |               | AV       | 2500.000      | -59.02          | 2.00         | 1.09                 | 39.27              | ≤54               | PASS    |
|              |             |            |               | Peak     | 2483.500      | -50.77          | 2.00         | 0.00                 | 46.43              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2485.120      | -47.99          | 2.00         | 0.00                 | 49.21              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2500.000      | -52.5           | 2.00         | 0.00                 | 44.70              | ≤74               | PASS    |

Note:

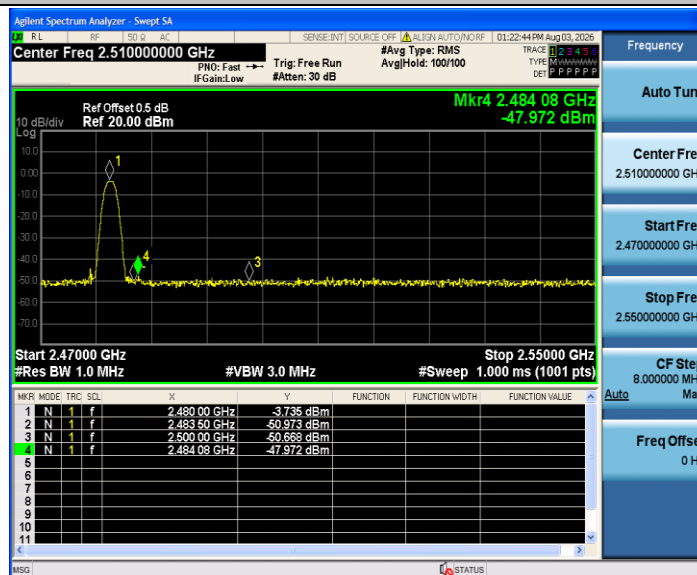
1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

# Test Graphs

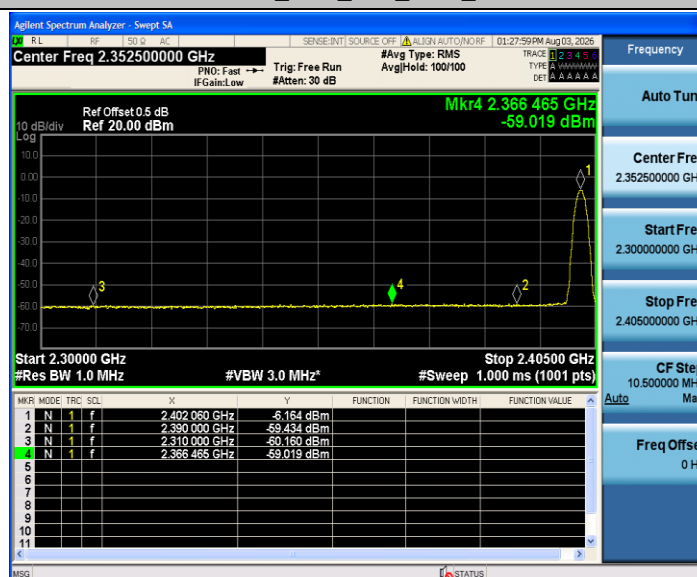




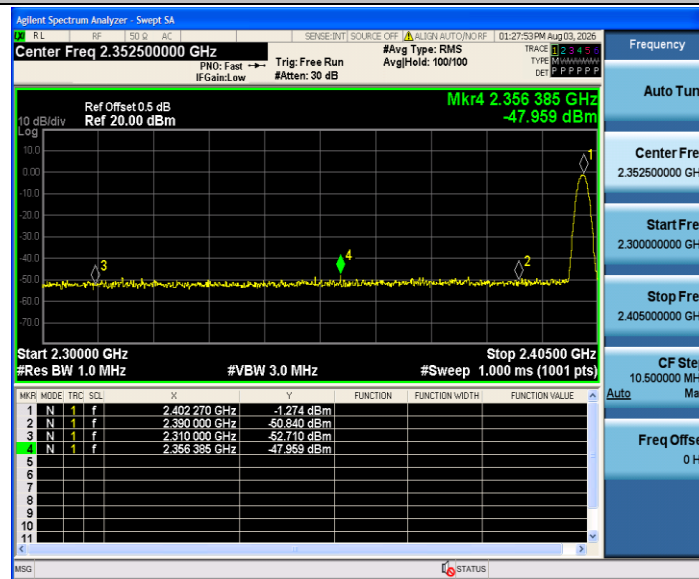
DH5\_Ant1\_High\_2480\_Peak



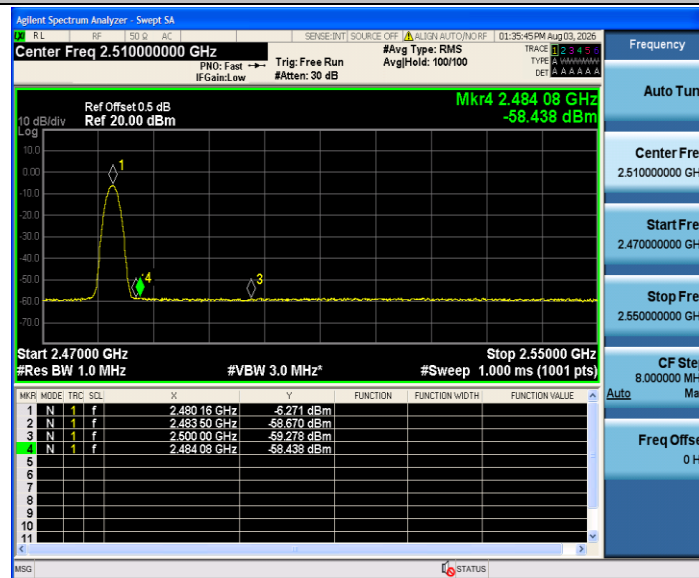
2DH5\_Ant1\_Low\_2402\_AV



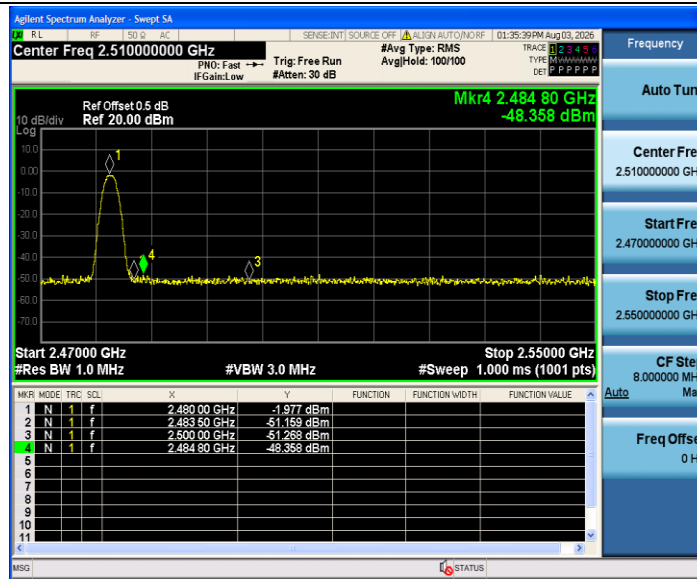
### 2DH5\_Ant1\_Low\_2402\_Peak



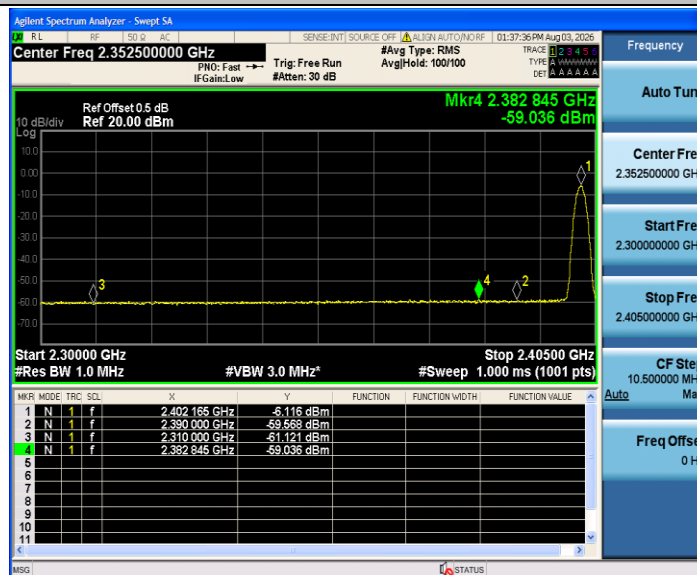
### 2DH5\_Ant1\_High\_2480\_AV



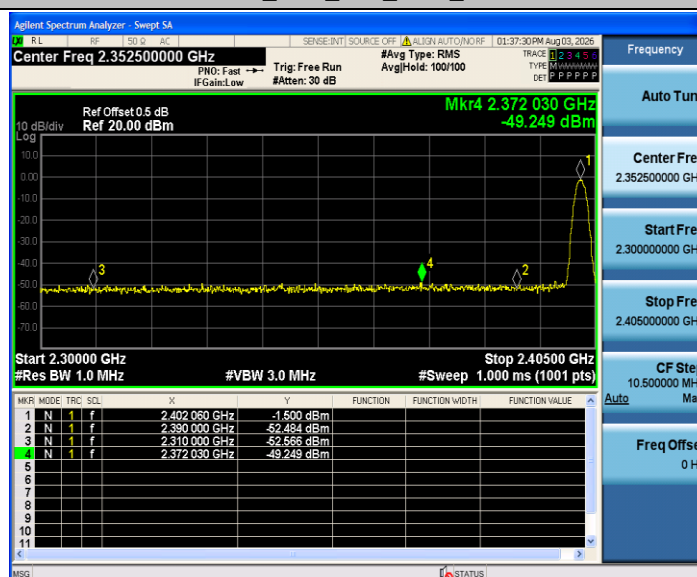
### 2DH5\_Ant1\_High\_2480\_Peak



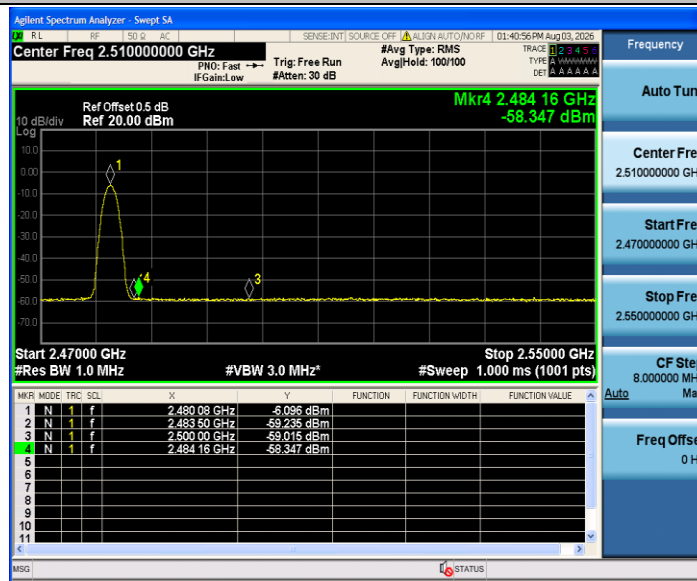
3DH5\_Ant1\_Low\_2402\_AV



3DH5\_Ant1\_Low\_2402\_Peak



### 3DH5\_Ant1\_High\_2480\_AV



### 3DH5\_Ant1\_High\_2480\_Peak

