

**RF Test Data for BT(BDR/EDR) (Conducted Measurement)****Product Name: Wireless Microphone****Trade Mark: N/A****Test Model: iLive****FCC ID: R2M-ILIVE1****Environmental Conditions**

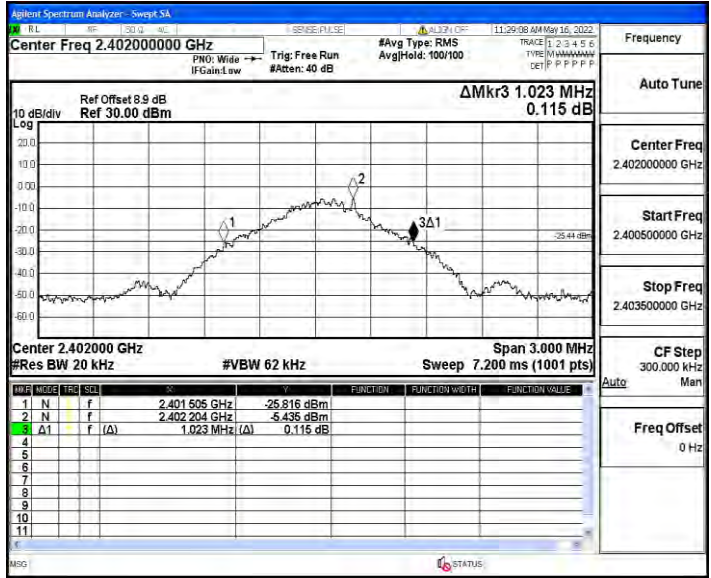
|                    |           |
|--------------------|-----------|
| Temperature:       | 25.5°C    |
| Relative Humidity: | 55%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Anna Hu   |
| Supervised by:     | Hugo Chen |
| NOTE               | N/A       |

**Appendix A: 20dB Emission Bandwidth****Test Result**

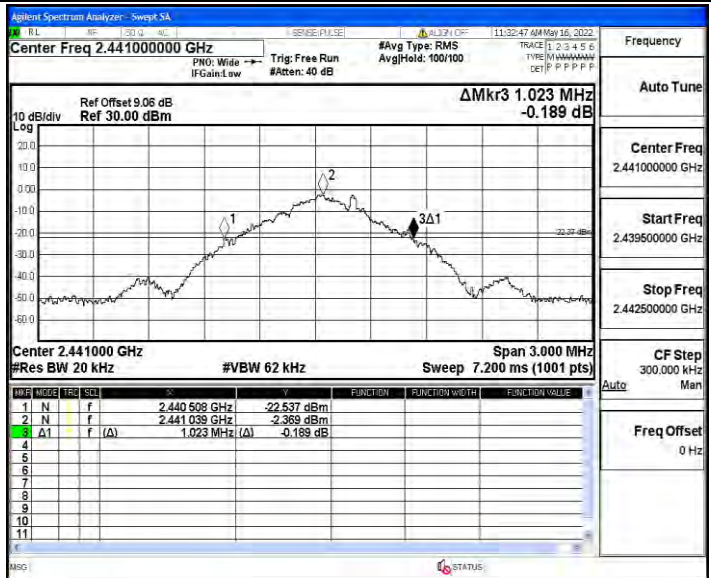
| TestMode | Antenna | Channel | 20db EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|---------------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402    | 1.023         | 2401.505 | 2402.528 | ---        | ---     |
|          |         | 2441    | 1.023         | 2440.508 | 2441.531 | ---        | ---     |
|          |         | 2480    | 1.032         | 2479.502 | 2480.534 | ---        | ---     |
| 2DH5     | Ant1    | 2402    | 1.308         | 2401.382 | 2402.690 | ---        | ---     |
|          |         | 2441    | 1.299         | 2440.394 | 2441.693 | ---        | ---     |
|          |         | 2480    | 1.320         | 2479.382 | 2480.702 | ---        | ---     |
| 3DH5     | Ant1    | 2402    | 1.284         | 2401.388 | 2402.672 | ---        | ---     |
|          |         | 2441    | 1.290         | 2440.391 | 2441.681 | ---        | ---     |
|          |         | 2480    | 1.293         | 2479.394 | 2480.687 | ---        | ---     |

Test Graphs

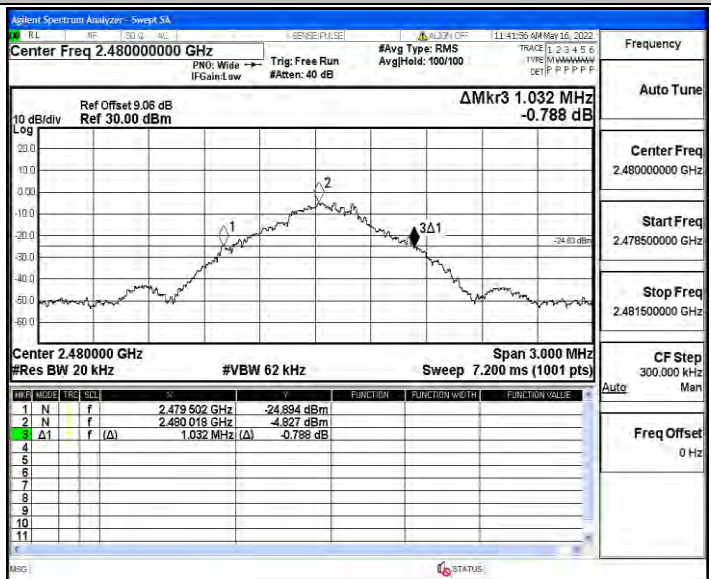
DH5\_Ant1\_2402



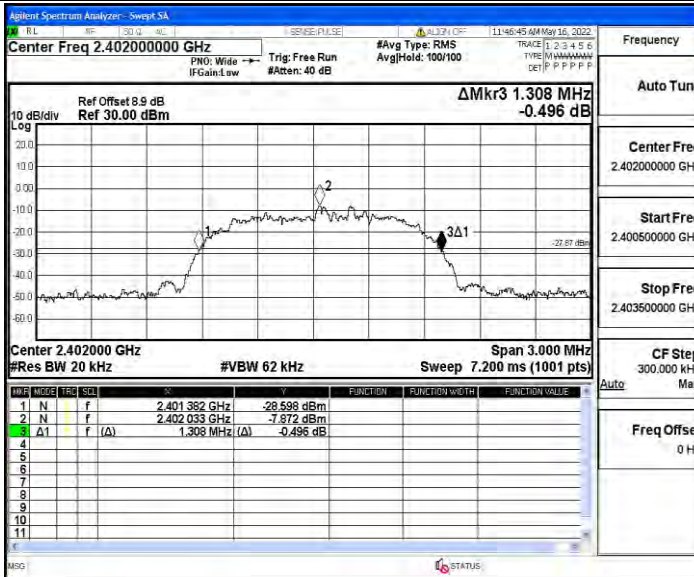
DH5\_Ant1\_2441



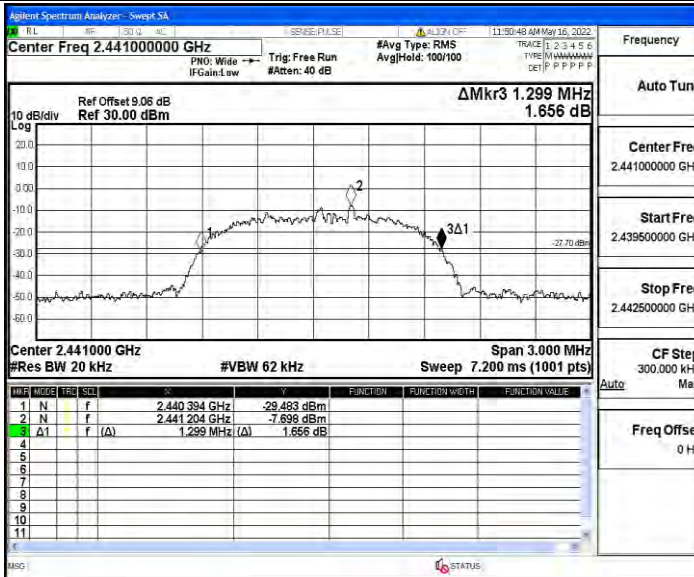
DH5\_Ant1\_2480



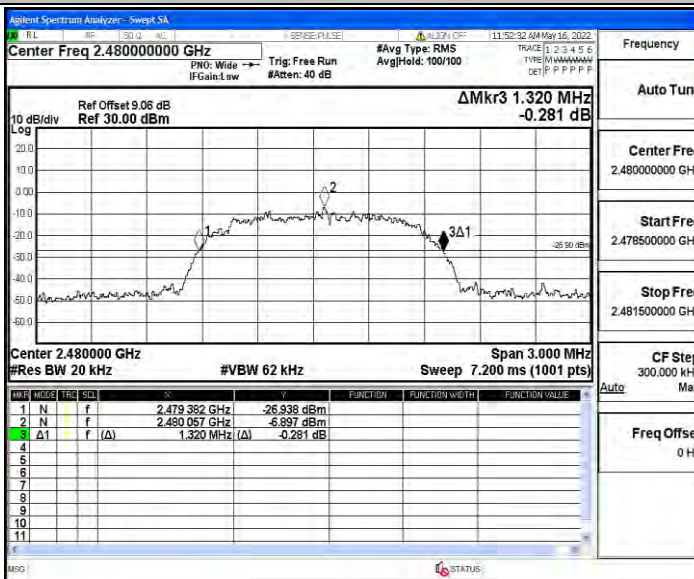
2DH5\_Ant1\_2402



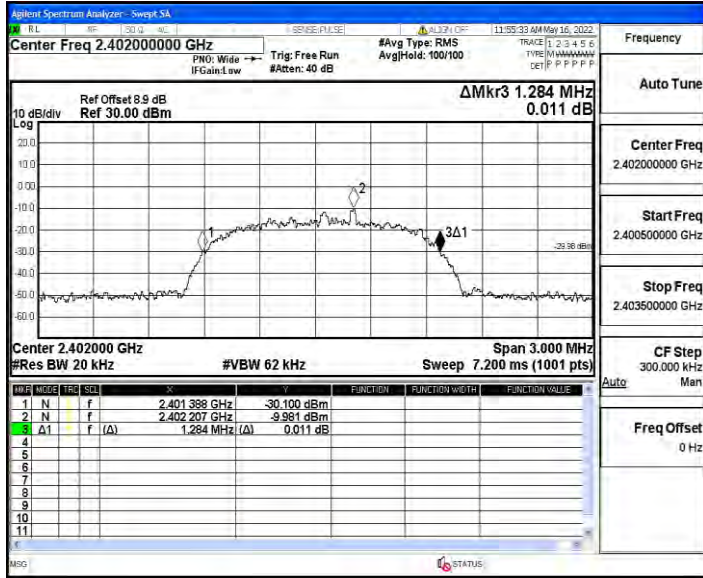
2DH5\_Ant1\_2441



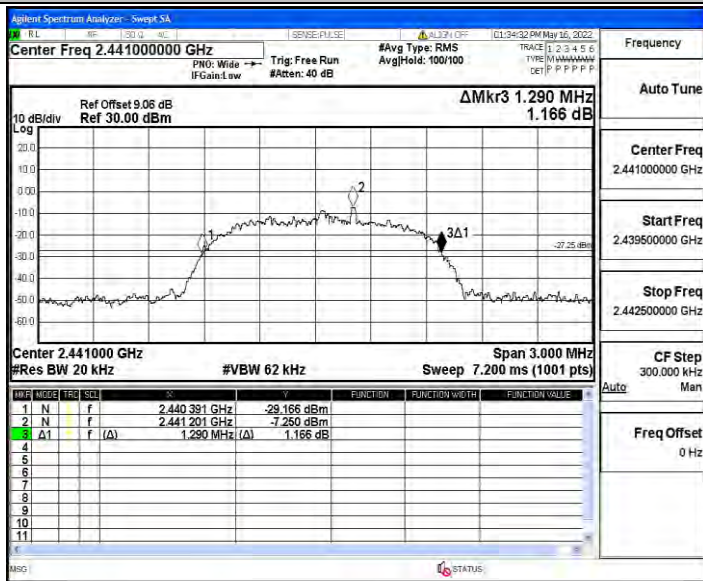
2DH5\_Ant1\_2480



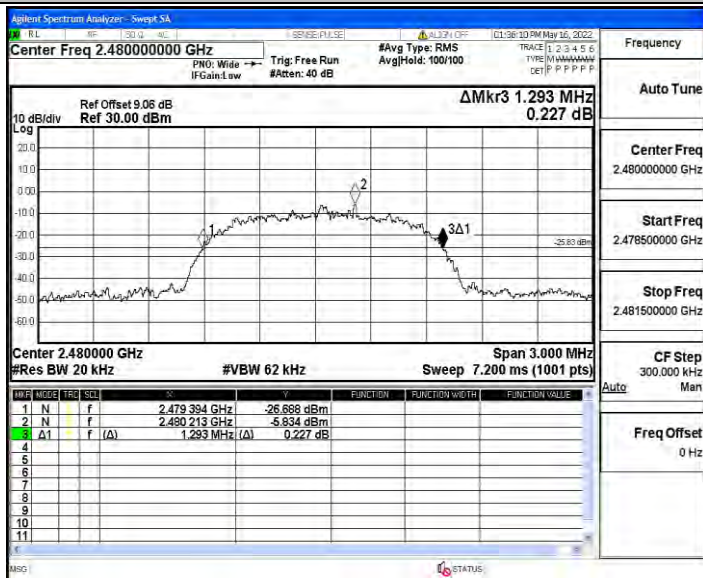
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



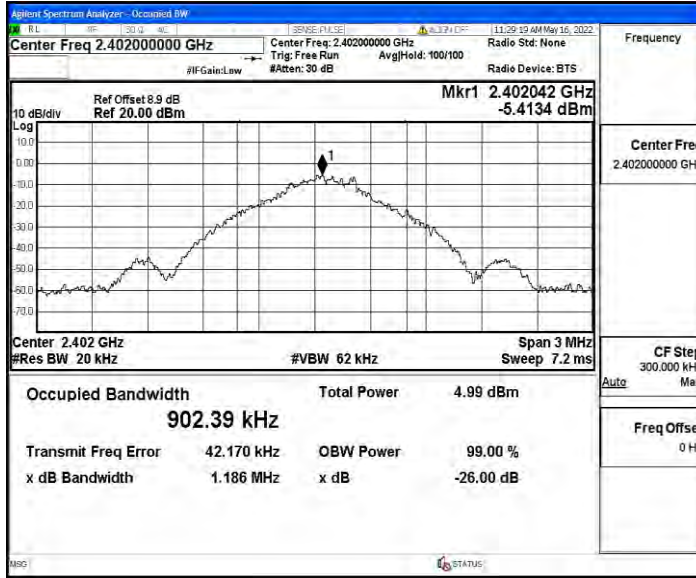
## Appendix B: Occupied Channel Bandwidth

### Test Result

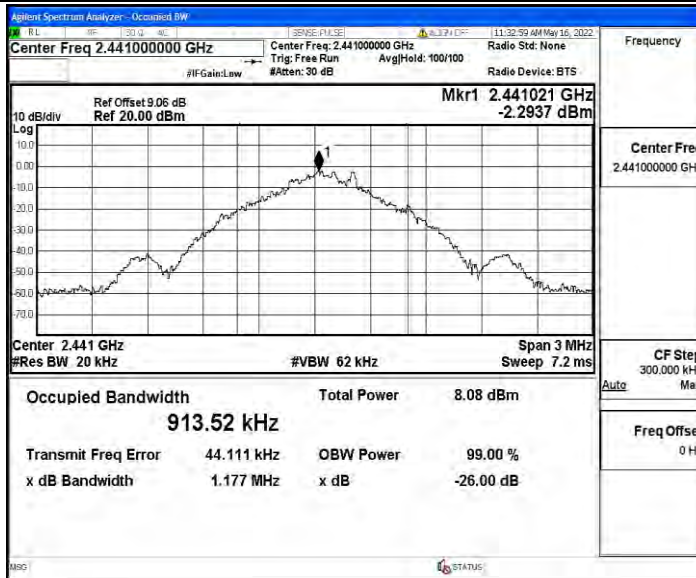
| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402    | 0.90239   | 2401.591 | 2402.493 | ---        | ---     |
|          |         | 2441    | 0.91352   | 2440.587 | 2441.501 | ---        | ---     |
|          |         | 2480    | 0.92703   | 2479.578 | 2480.505 | ---        | ---     |
| 2DH5     | Ant1    | 2402    | 1.1877    | 2401.440 | 2402.628 | ---        | ---     |
|          |         | 2441    | 1.1890    | 2440.443 | 2441.632 | ---        | ---     |
|          |         | 2480    | 1.1902    | 2479.445 | 2480.636 | ---        | ---     |
| 3DH5     | Ant1    | 2402    | 1.1857    | 2401.446 | 2402.632 | ---        | ---     |
|          |         | 2441    | 1.1871    | 2440.451 | 2441.638 | ---        | ---     |
|          |         | 2480    | 1.1840    | 2479.446 | 2480.630 | ---        | ---     |

### Test Graphs

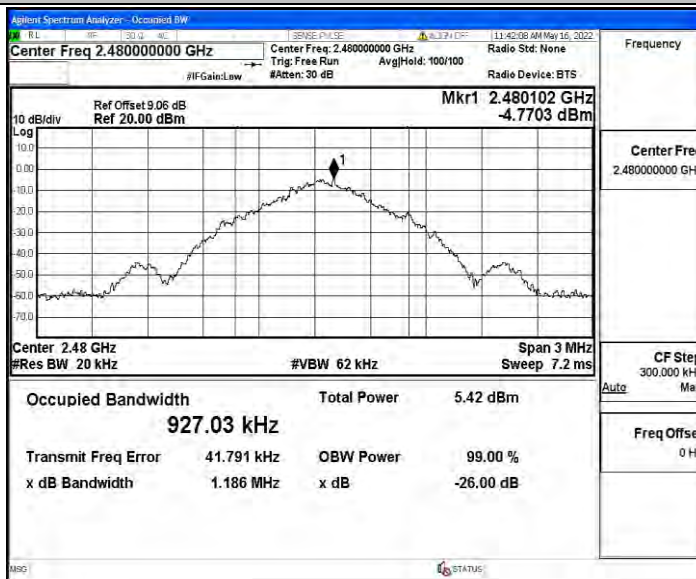
DH5\_Ant1\_2402



DH5\_Ant1\_2441



DH5\_Ant1\_2480



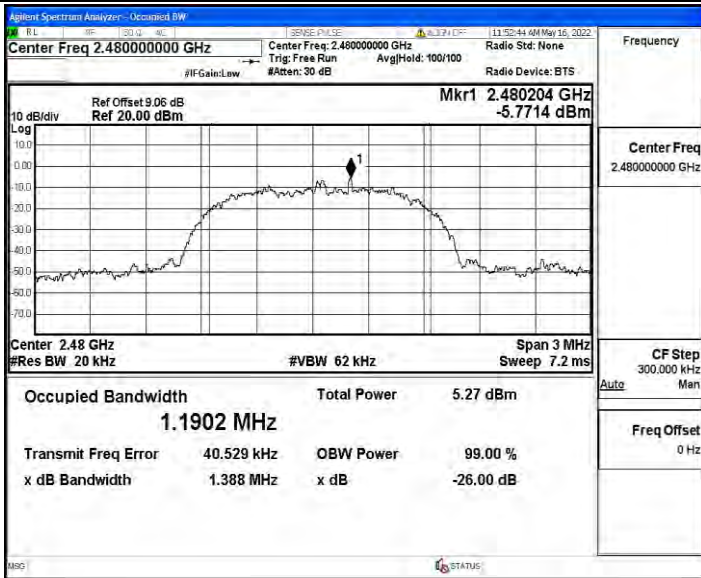
2DH5\_Ant1\_2402



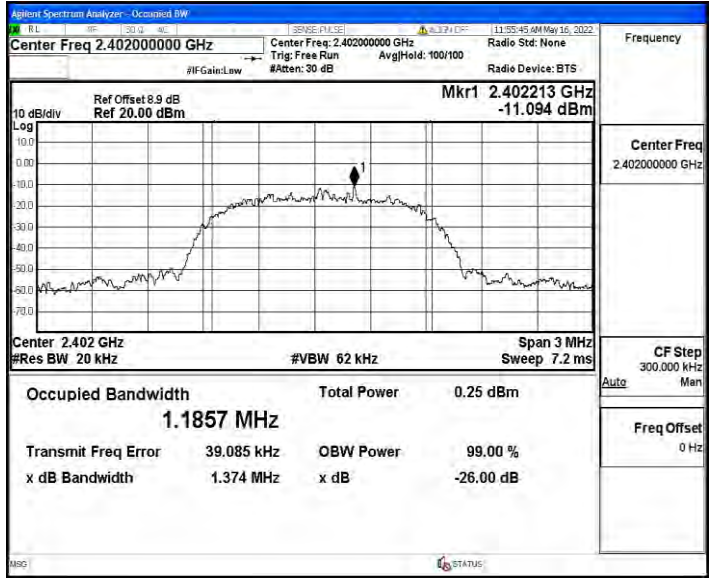
2DH5\_Ant1\_2441



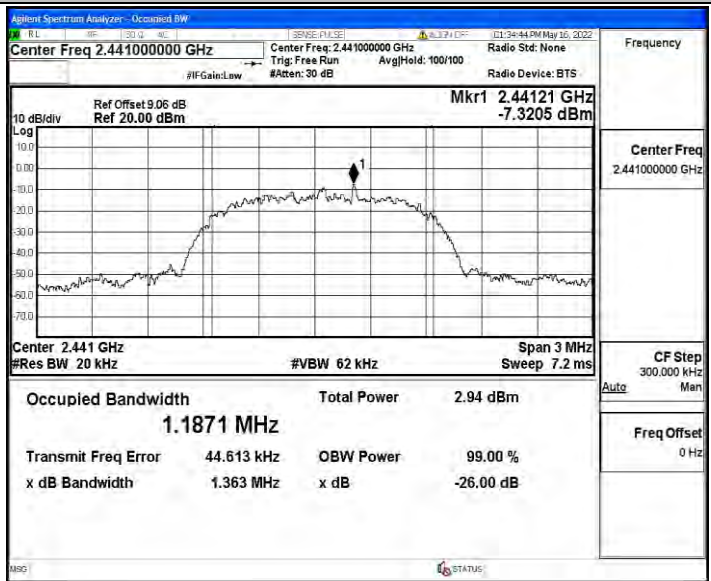
2DH5\_Ant1\_2480



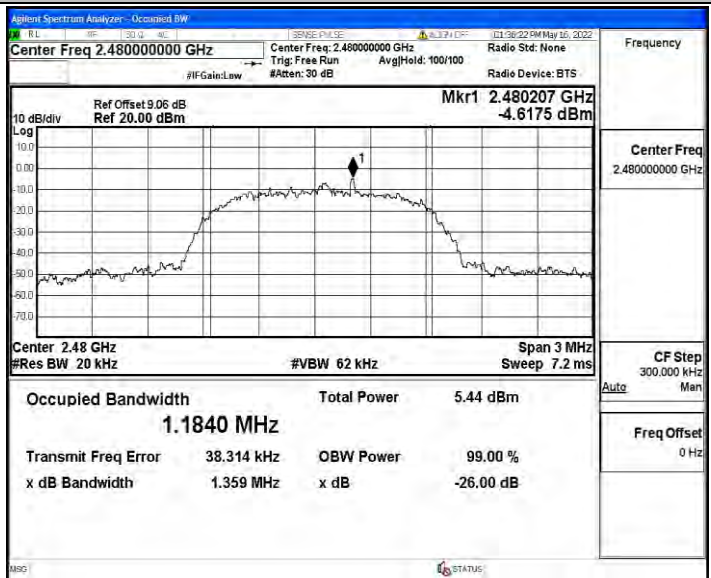
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480





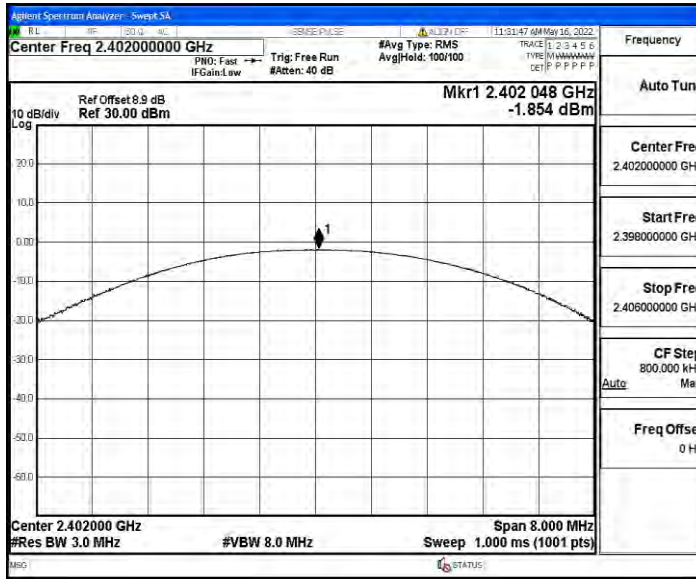
## Appendix C: Maximum conducted output power

### Test Result

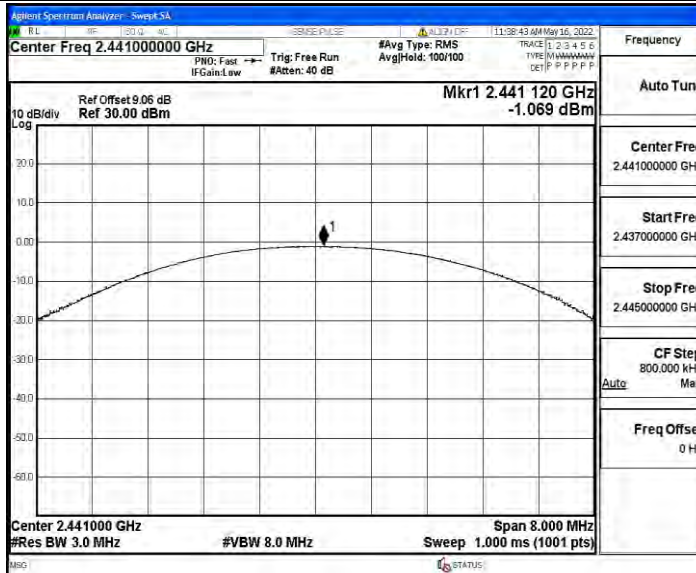
| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant1    | 2402    | -1.85       | ≤30        | PASS    |
|          |         | 2441    | -1.07       | ≤30        | PASS    |
|          |         | 2480    | -1.22       | ≤30        | PASS    |
| 2DH5     | Ant1    | 2402    | -1.47       | ≤20.97     | PASS    |
|          |         | 2441    | -2.26       | ≤20.97     | PASS    |
|          |         | 2480    | -0.08       | ≤20.97     | PASS    |
| 3DH5     | Ant1    | 2402    | -4.64       | ≤20.97     | PASS    |
|          |         | 2441    | -1.92       | ≤20.97     | PASS    |
|          |         | 2480    | 0.35        | ≤20.97     | PASS    |

### Test Graphs

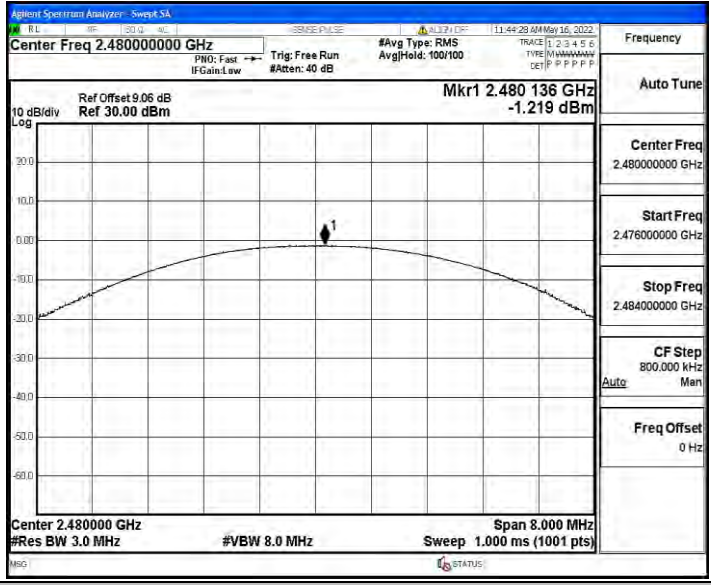
DH5\_Ant1\_2402



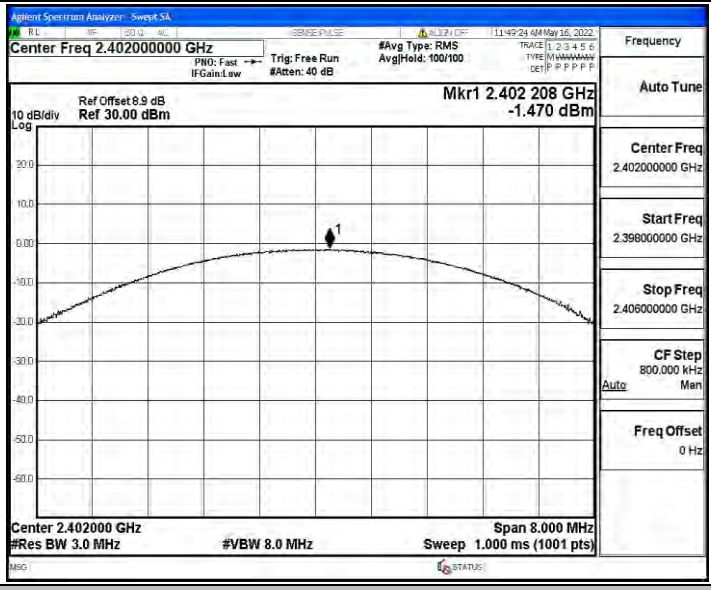
DH5\_Ant1\_2441



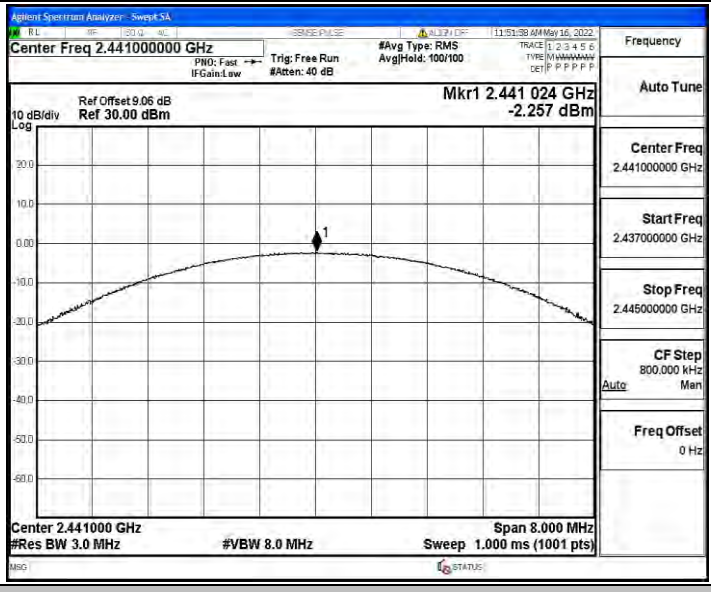
DH5\_Ant1\_2480



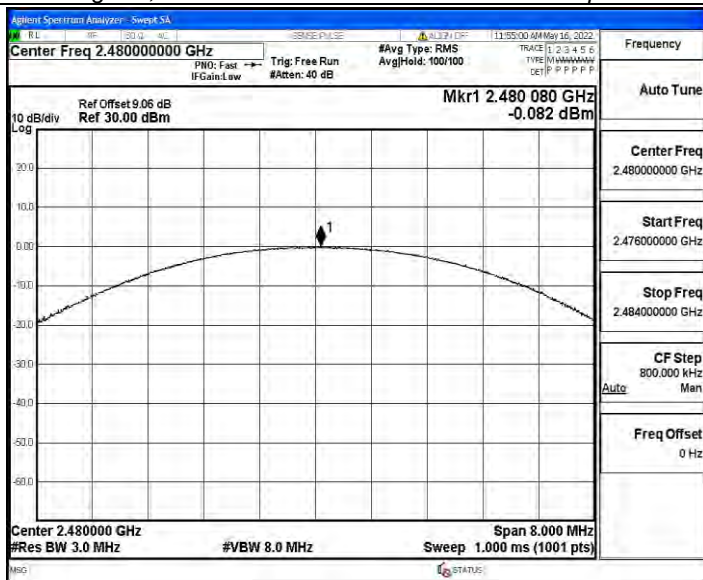
2DH5\_Ant1\_2402



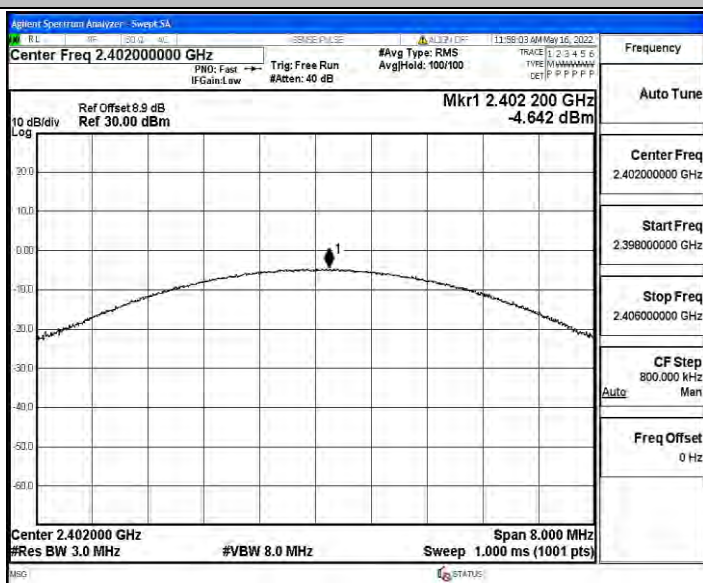
2DH5\_Ant1\_2441



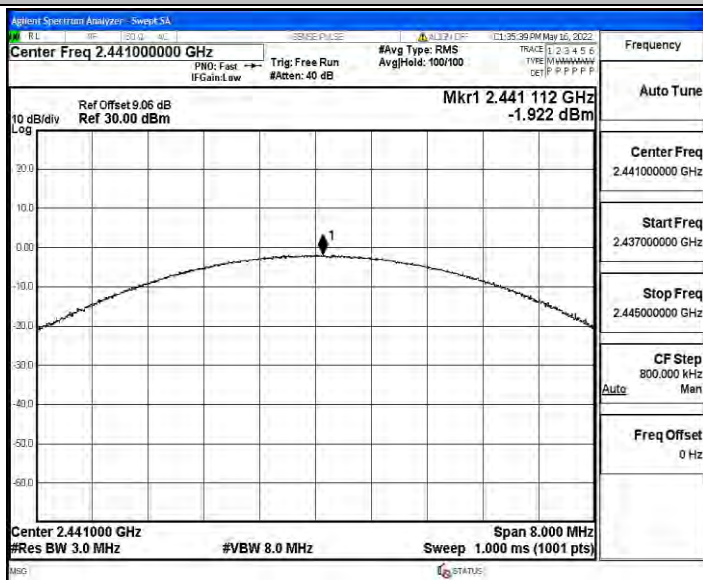
2DH5\_Ant1\_2480



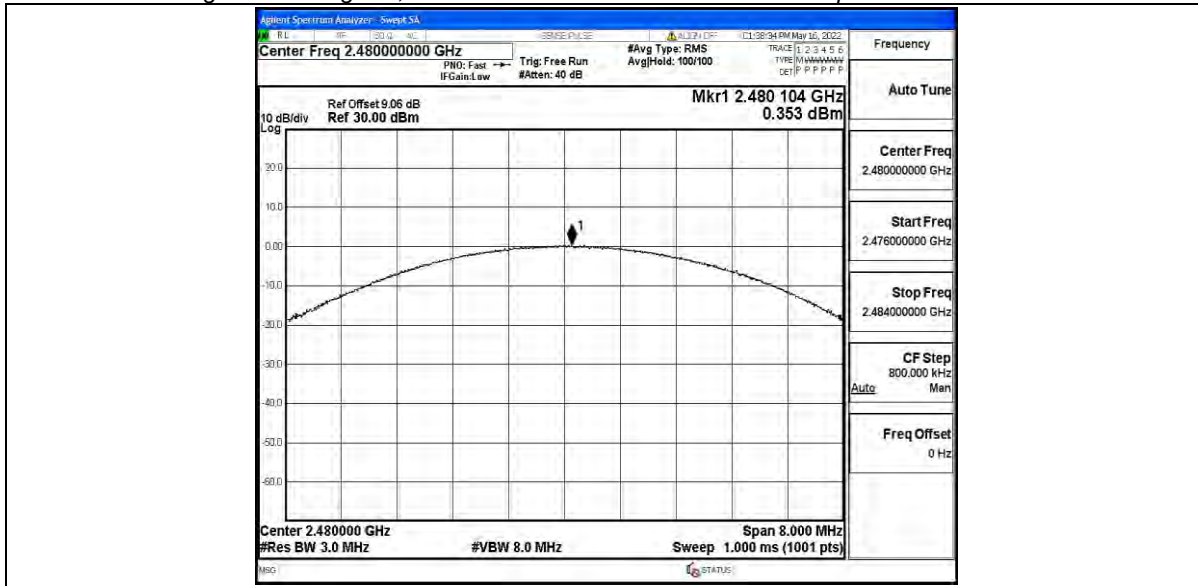
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



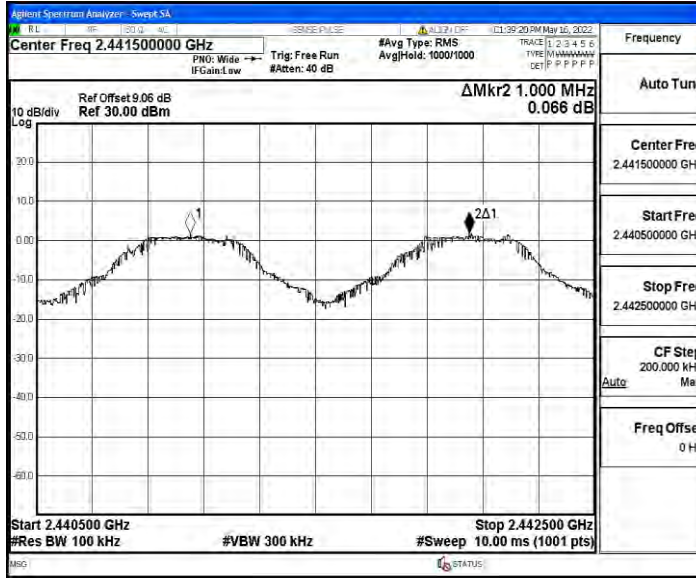
## Appendix D: Carrier frequency separation

### Test Result

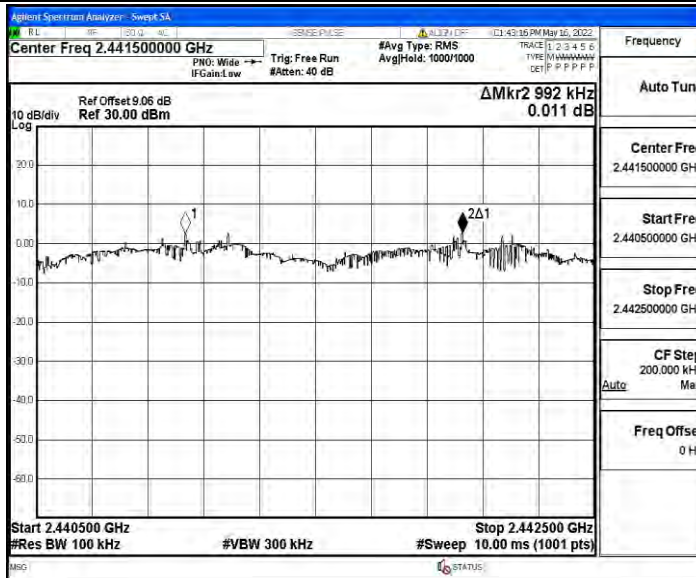
| TestMode | Antenna | Channel | Result[MHz] | Limit[MHz] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant1    | Hop     | 1           | ≥0.688     | PASS    |
| 2DH5     | Ant1    | Hop     | 0.992       | ≥0.880     | PASS    |
| 3DH5     | Ant1    | Hop     | 1.078       | ≥0.862     | PASS    |

### Test Graphs

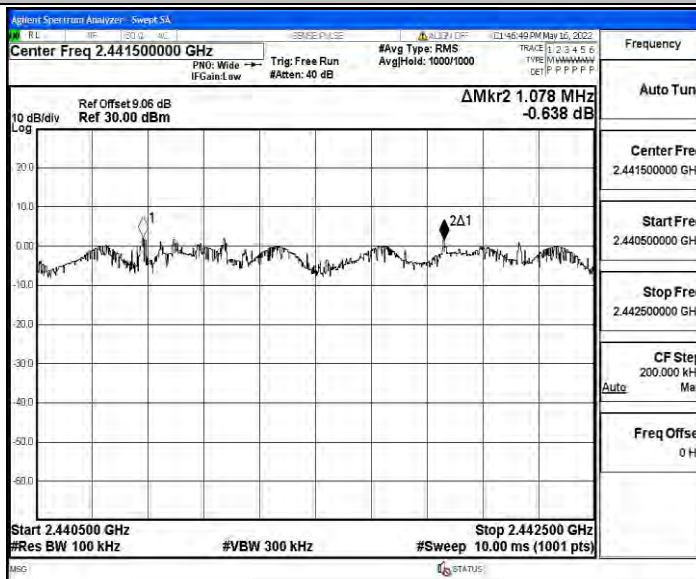
#### DH5\_Ant1\_Hop



#### 2DH5\_Ant1\_Hop



#### 3DH5\_Ant1\_Hop



## Appendix E: Time of occupancy

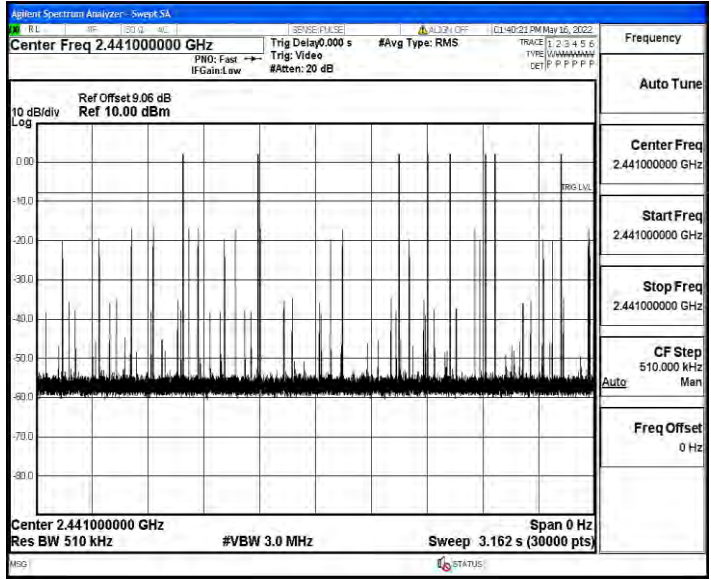
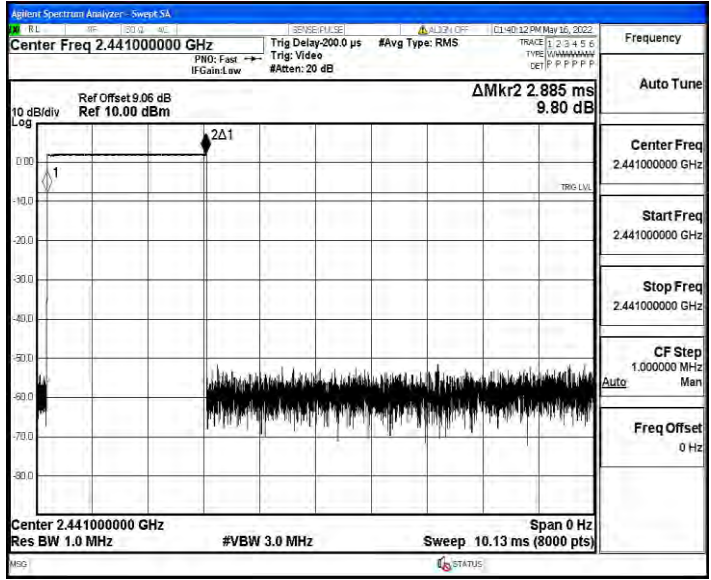
### Test Result

| TestMode | Antenna | Channel | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|---------|--------------------|--------------------|-----------|----------|---------|
| DH5      | Ant1    | Hop     | 2.89               | 90                 | 0.26      | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop     | 2.89               | 80                 | 0.231     | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop     | 2.89               | 130                | 0.376     | ≤0.4     | PASS    |

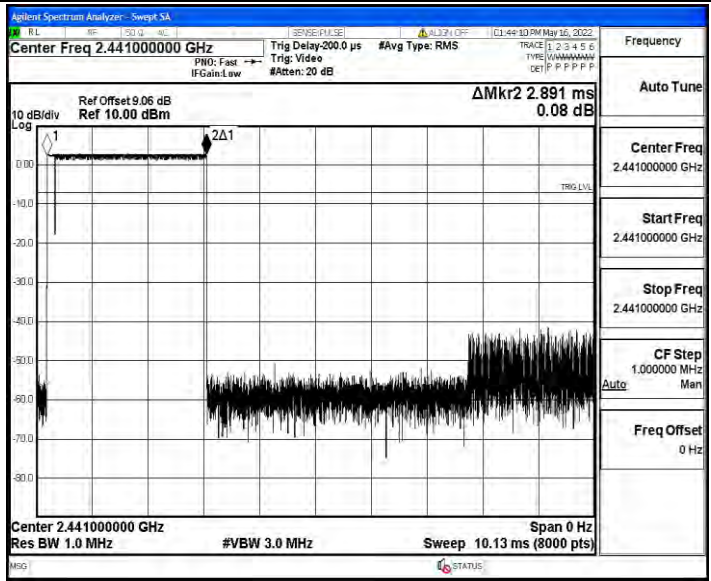


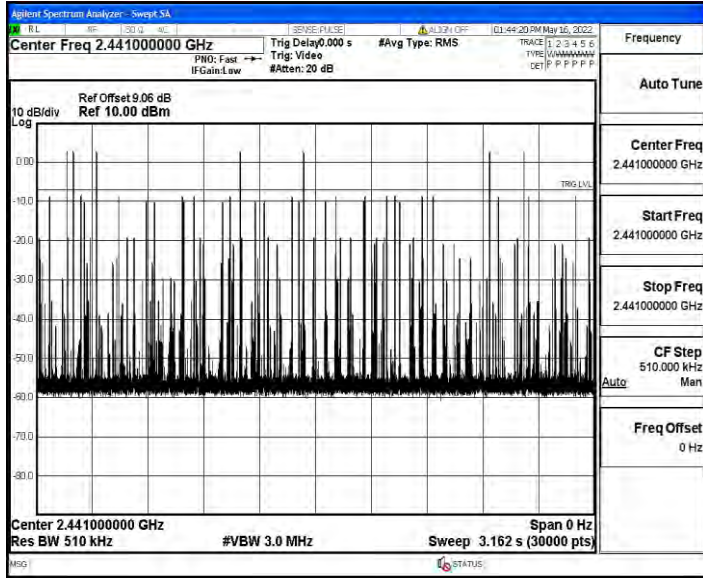
### Test Graphs

#### DH5\_Ant1\_Hop

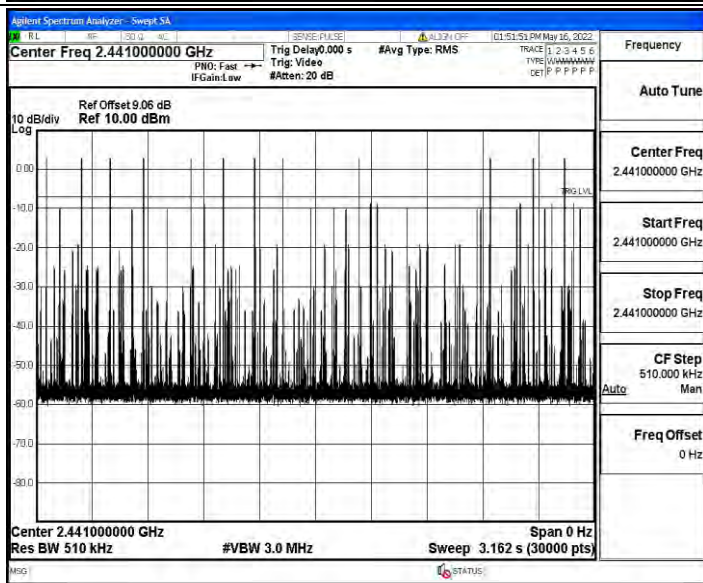
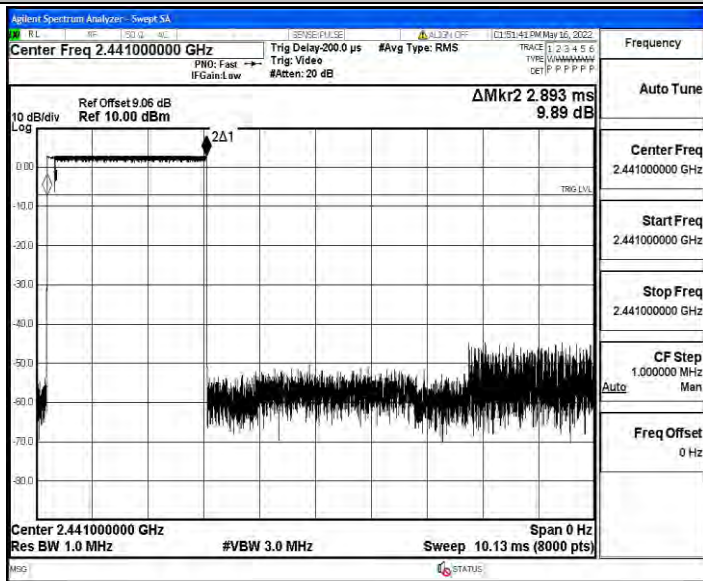


#### 2DH5\_Ant1\_Hop





3DH5\_Ant1\_Hop



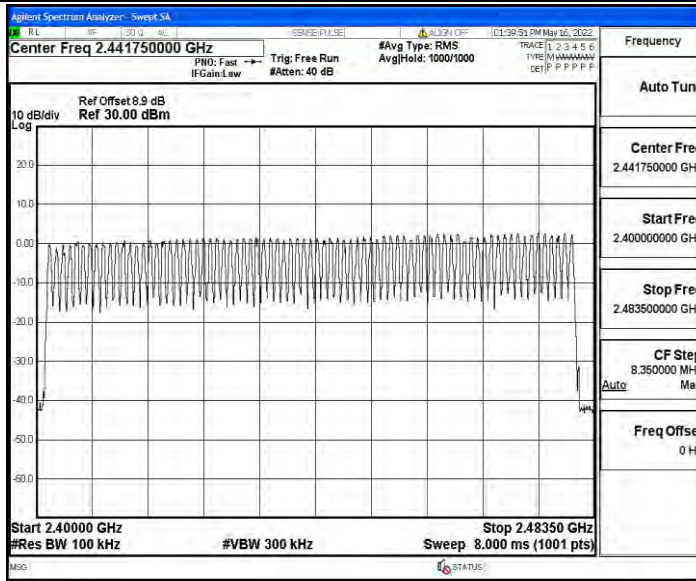
## Appendix F: Number of hopping channels

### Test Result

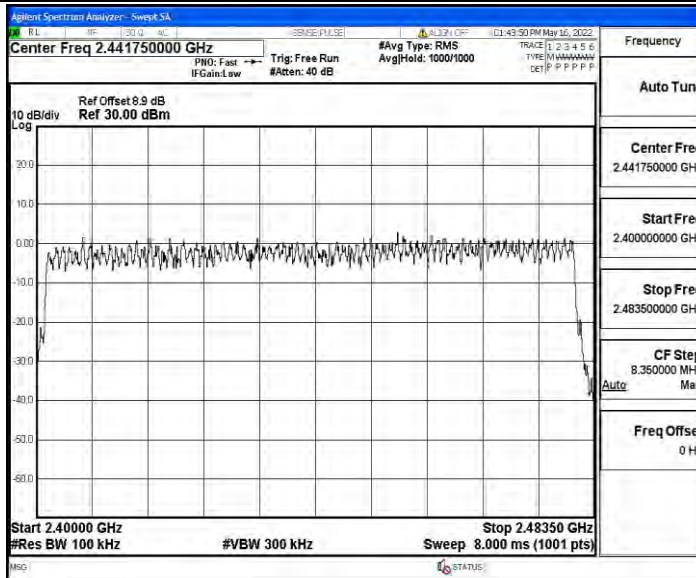
| TestMode | Antenna | Channel | Result[Num] | Limit[Num] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant1    | Hop     | 79          | ≥15        | PASS    |
| 2DH5     | Ant1    | Hop     | 79          | ≥15        | PASS    |
| 3DH5     | Ant1    | Hop     | 79          | ≥15        | PASS    |

Test Graphs

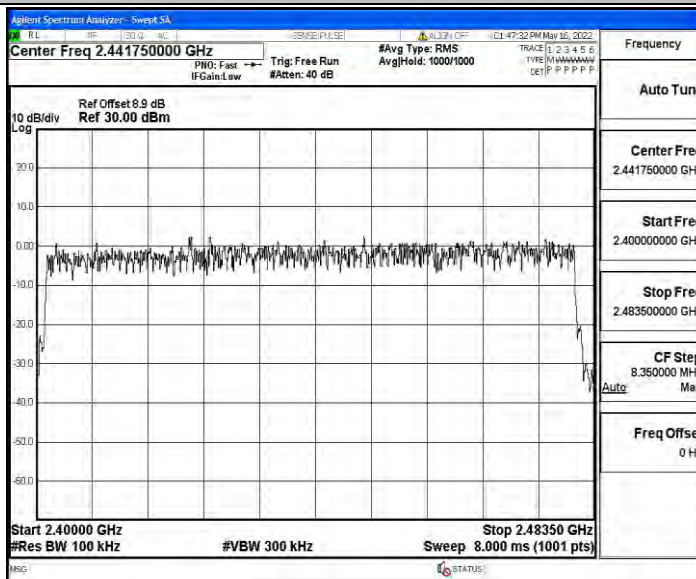
DH5\_Ant1\_Hop



2DH5\_Ant1\_Hop



3DH5\_Ant1\_Hop



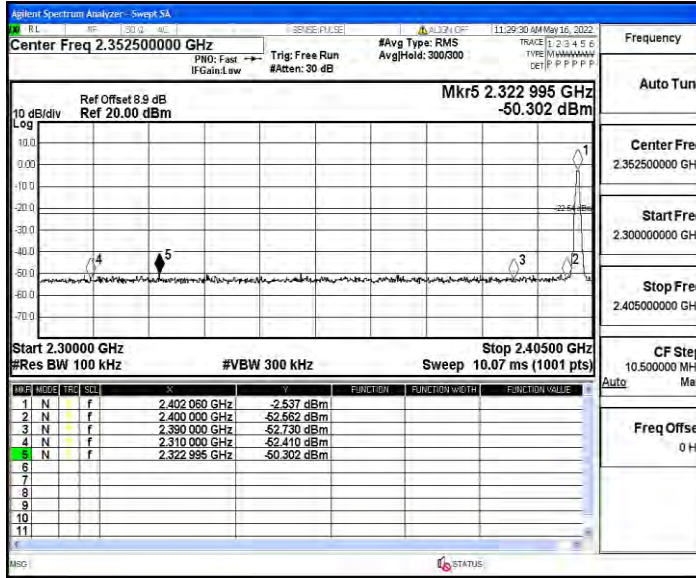
## Appendix G: Band edge measurements

### Test Result

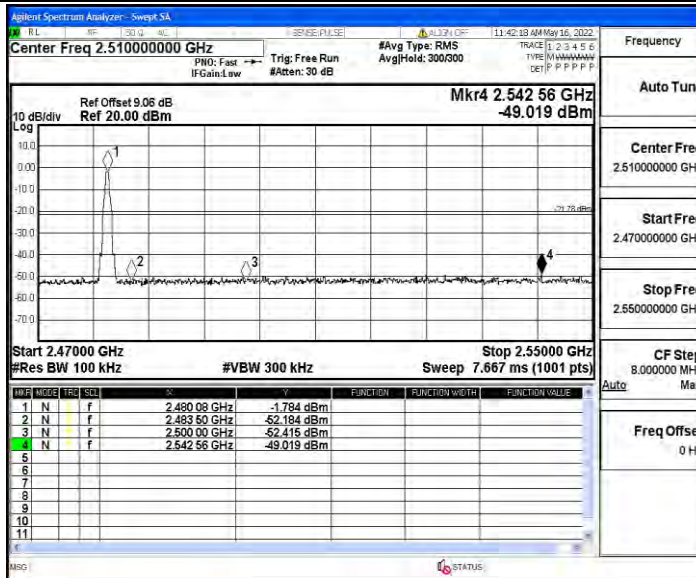
| TestMode | Antenna | ChName | Channel  | RefLevel [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|----------|---------|--------|----------|----------------|--------------|---------------|---------|
| DH5      | Ant1    | Low    | 2402     | -2.54          | -50.3        | $\leq -22.54$ | PASS    |
|          |         | High   | 2480     | -1.78          | -49.02       | $\leq -21.78$ | PASS    |
|          |         | Low    | Hop_2402 | -0.35          | -49.68       | $\leq -20.35$ | PASS    |
|          |         | High   | Hop_2480 | 2.87           | -47.36       | $\leq -17.13$ | PASS    |
| 2DH5     | Ant1    | Low    | 2402     | -3.36          | -50.12       | $\leq -23.36$ | PASS    |
|          |         | High   | 2480     | -1.48          | -49.32       | $\leq -21.48$ | PASS    |
|          |         | Low    | Hop_2402 | -1.95          | -50.39       | $\leq -21.95$ | PASS    |
|          |         | High   | Hop_2480 | 3.26           | -48.24       | $\leq -16.75$ | PASS    |
| 3DH5     | Ant1    | Low    | 2402     | -6.71          | -50.5        | $\leq -26.71$ | PASS    |
|          |         | High   | 2480     | -1.51          | -49.13       | $\leq -21.51$ | PASS    |
|          |         | Low    | Hop_2402 | -0.96          | -51.02       | $\leq -20.96$ | PASS    |
|          |         | High   | Hop_2480 | 1.57           | -49.55       | $\leq -18.44$ | PASS    |

Test Graphs

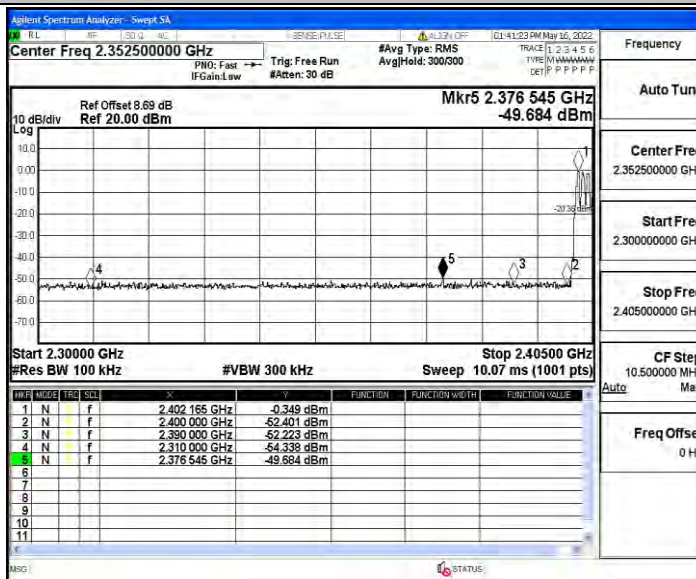
DH5\_Ant1\_Low\_2402



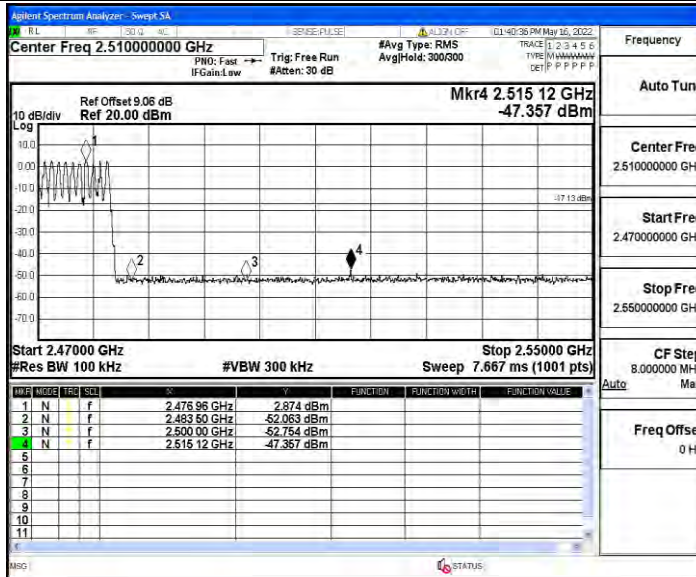
DH5\_Ant1\_High\_2480



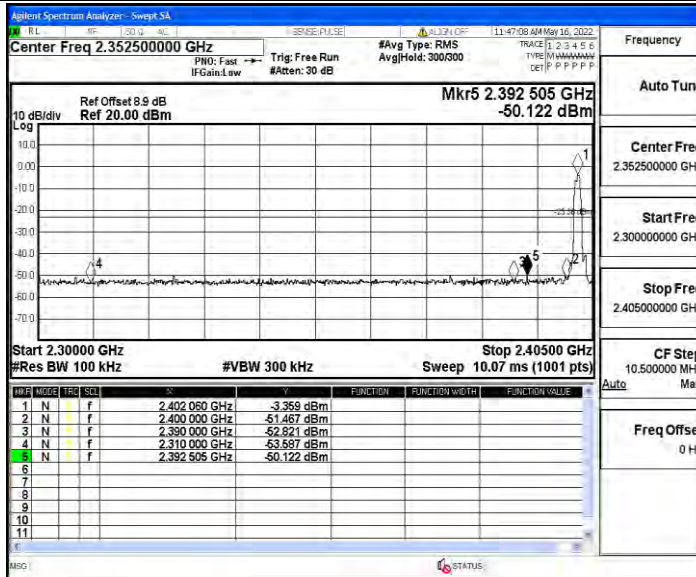
DH5\_Ant1\_Low\_Hop\_2402



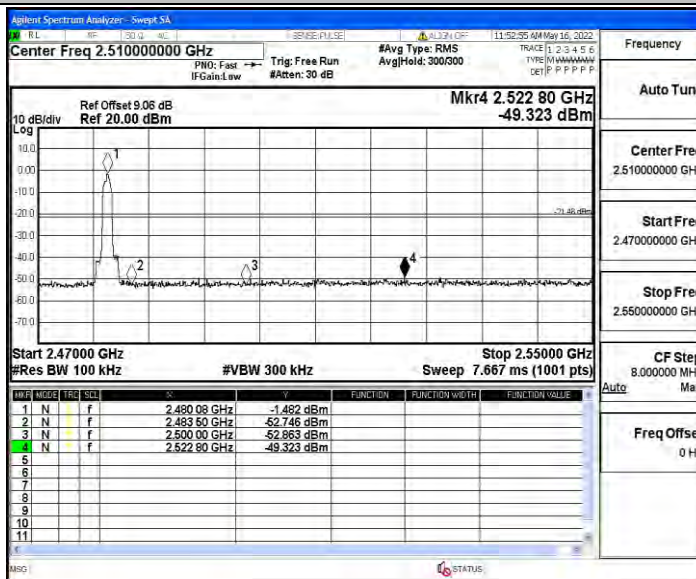
DH5\_Ant1\_High\_Hop\_2480



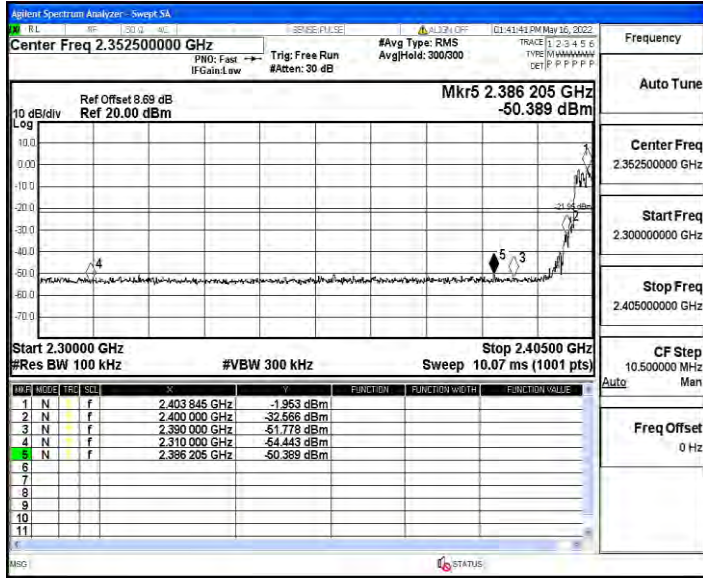
2DH5\_Ant1\_Low\_2402



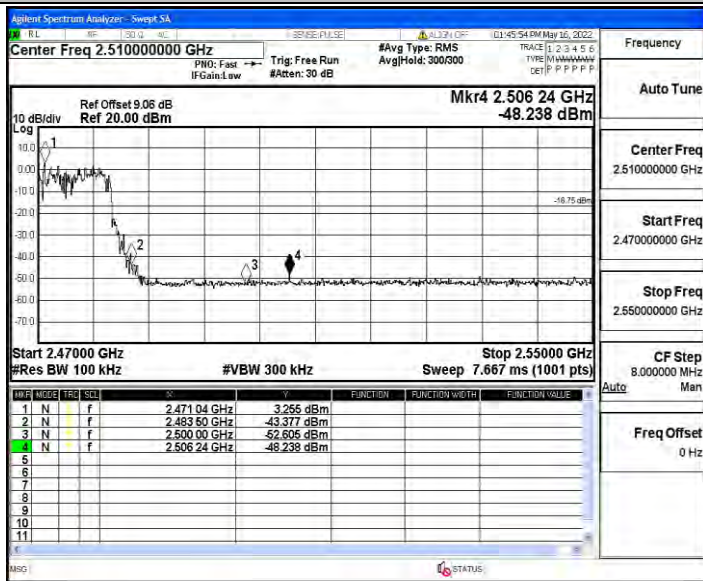
2DH5\_Ant1\_High\_2480



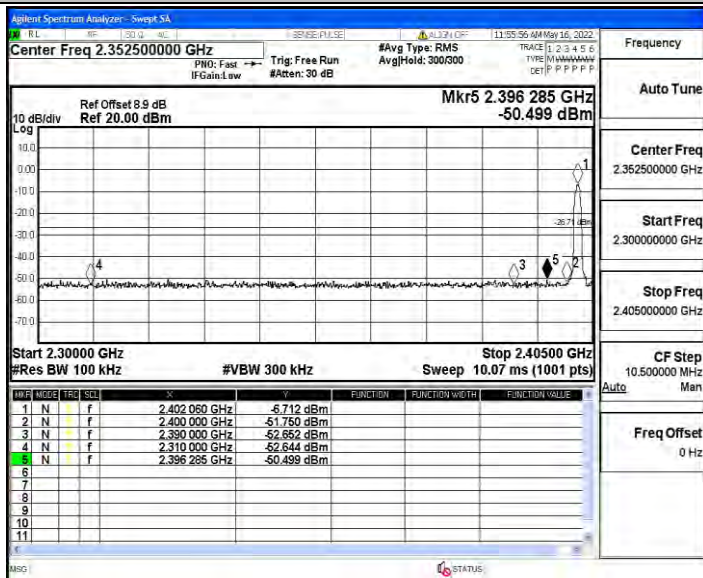
2DH5\_Ant1\_Low\_Hop\_2402



2DH5\_Ant1\_High\_Hop\_2480

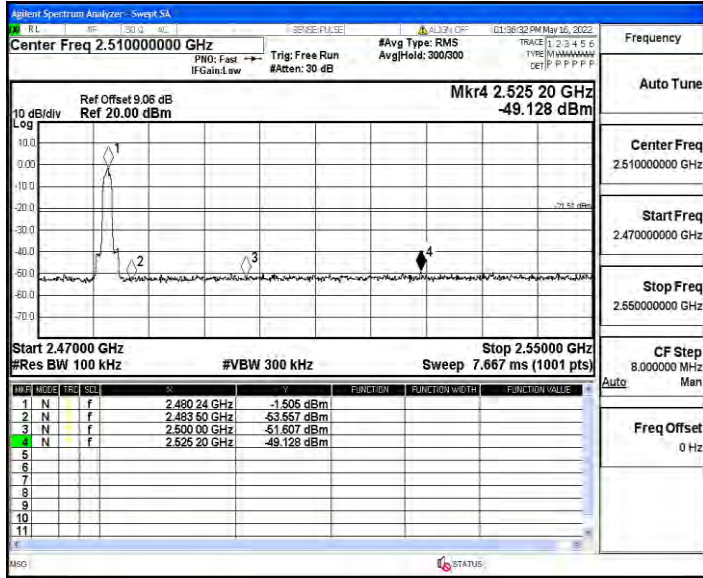


3DH5\_Ant1\_Low\_2402

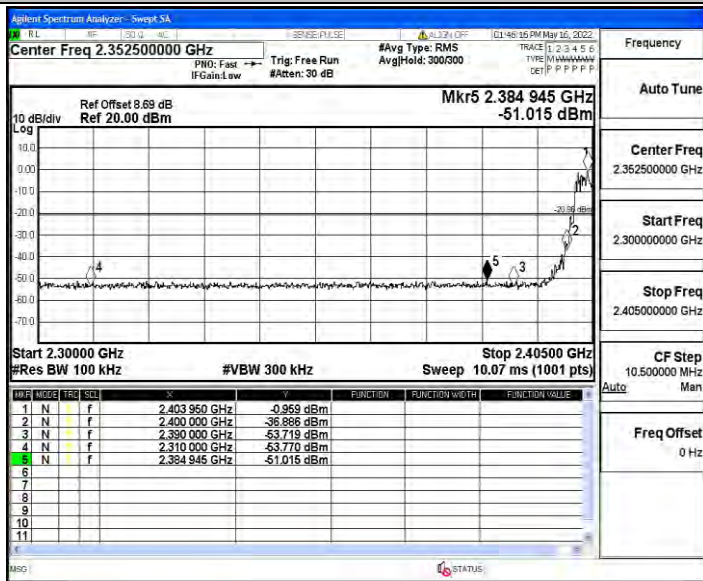


3DH5\_Ant1\_High\_2480

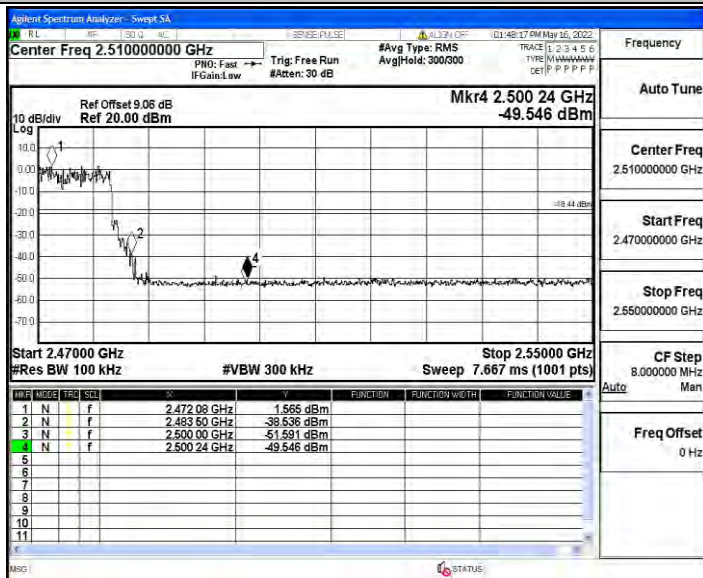




3DH5\_Ant1\_Low\_Hop\_2402



3DH5\_Ant1\_High\_Hop\_2480



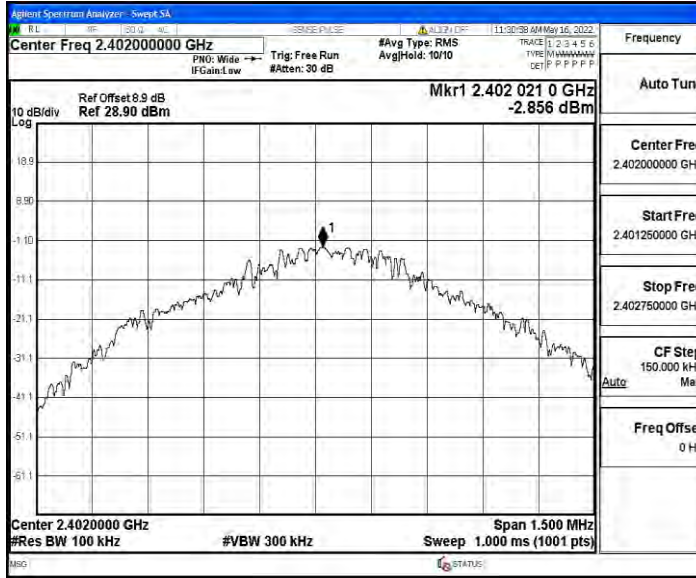
## Appendix H: Conducted Spurious Emission

### Test Result

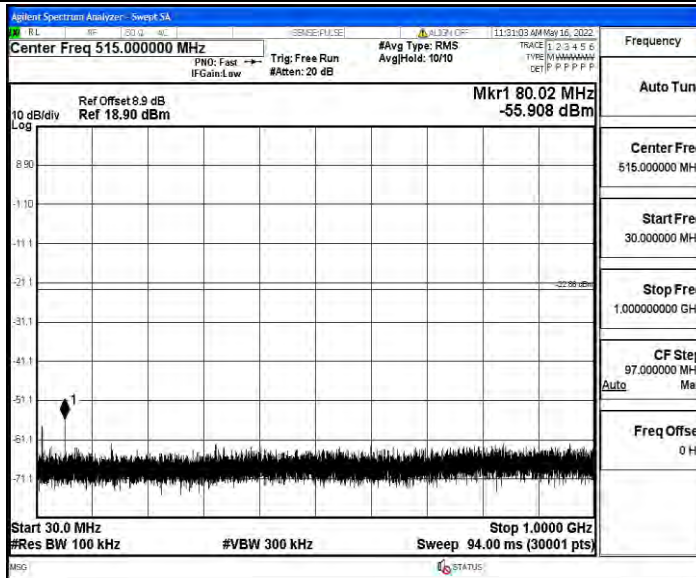
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | 2402    | Reference          | -2.86             | -2.86           | ---            | PASS    |
|          |         |         | 30~1000            | -2.86             | -55.91          | ≤-22.86        | PASS    |
|          |         |         | 1000~26500         | -2.86             | -40.04          | ≤-22.86        | PASS    |
|          |         | 2441    | Reference          | -0.33             | -0.33           | ---            | PASS    |
|          |         |         | 30~1000            | -0.33             | -55.72          | ≤-20.33        | PASS    |
|          |         |         | 1000~26500         | -0.33             | -35.54          | ≤-20.33        | PASS    |
|          |         | 2480    | Reference          | -2.38             | -2.38           | ---            | PASS    |
|          |         |         | 30~1000            | -2.38             | -56.45          | ≤-22.38        | PASS    |
|          |         |         | 1000~26500         | -2.38             | -42.68          | ≤-22.38        | PASS    |
| 2DH5     | Ant1    | 2402    | Reference          | -4.33             | -4.33           | ---            | PASS    |
|          |         |         | 30~1000            | -4.33             | -56.54          | ≤-24.33        | PASS    |
|          |         |         | 1000~26500         | -4.33             | -41.84          | ≤-24.33        | PASS    |
|          |         | 2441    | Reference          | -6.78             | -6.78           | ---            | PASS    |
|          |         |         | 30~1000            | -6.78             | -55.86          | ≤-26.78        | PASS    |
|          |         |         | 1000~26500         | -6.78             | -47.74          | ≤-26.78        | PASS    |
|          |         | 2480    | Reference          | -5.17             | -5.17           | ---            | PASS    |
|          |         |         | 30~1000            | -5.17             | -55.89          | ≤-25.17        | PASS    |
|          |         |         | 1000~26500         | -5.17             | -48.64          | ≤-25.17        | PASS    |
| 3DH5     | Ant1    | 2402    | Reference          | -10.17            | -10.17          | ---            | PASS    |
|          |         |         | 30~1000            | -10.17            | -56.02          | ≤-30.17        | PASS    |
|          |         |         | 1000~26500         | -10.17            | -46.83          | ≤-30.17        | PASS    |
|          |         | 2441    | Reference          | -7.02             | -7.02           | ---            | PASS    |
|          |         |         | 30~1000            | -7.02             | -53.68          | ≤-27.02        | PASS    |
|          |         |         | 1000~26500         | -7.02             | -49.19          | ≤-27.02        | PASS    |
|          |         | 2480    | Reference          | -3.87             | -3.87           | ---            | PASS    |
|          |         |         | 30~1000            | -3.87             | -56.04          | ≤-23.87        | PASS    |
|          |         |         | 1000~26500         | -3.87             | -47.25          | ≤-23.87        | PASS    |

Test Graphs

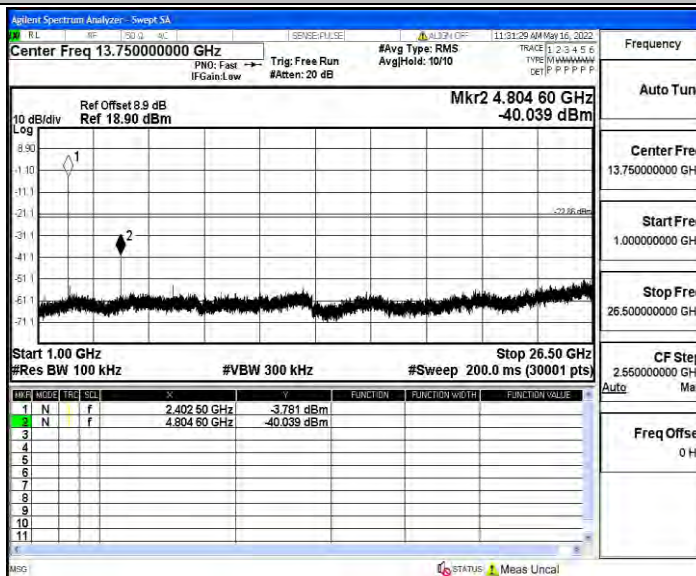
DH5\_Ant1\_2402\_0~Reference



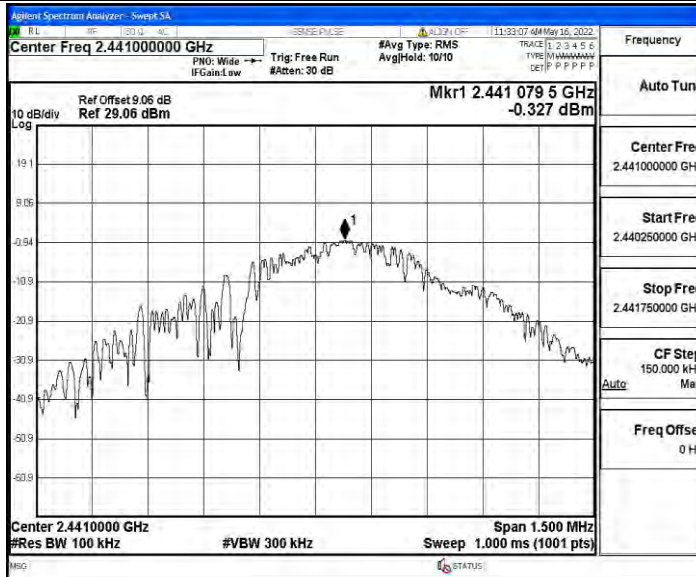
DH5\_Ant1\_2402\_30~1000



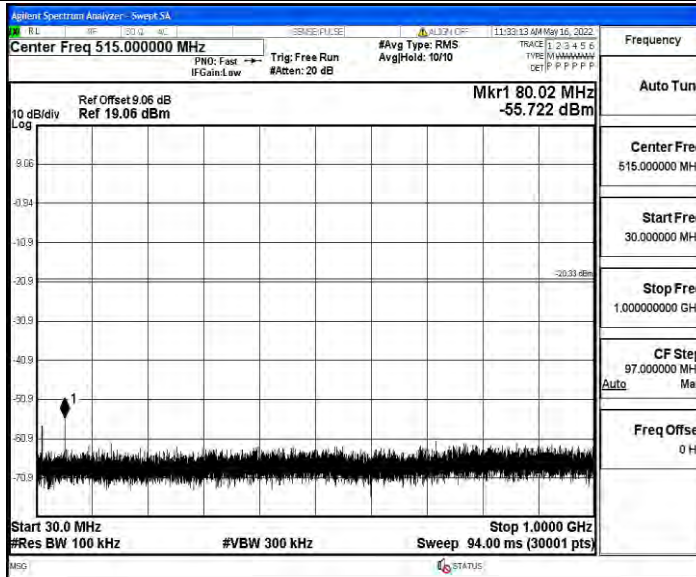
DH5\_Ant1\_2402\_1000~26500



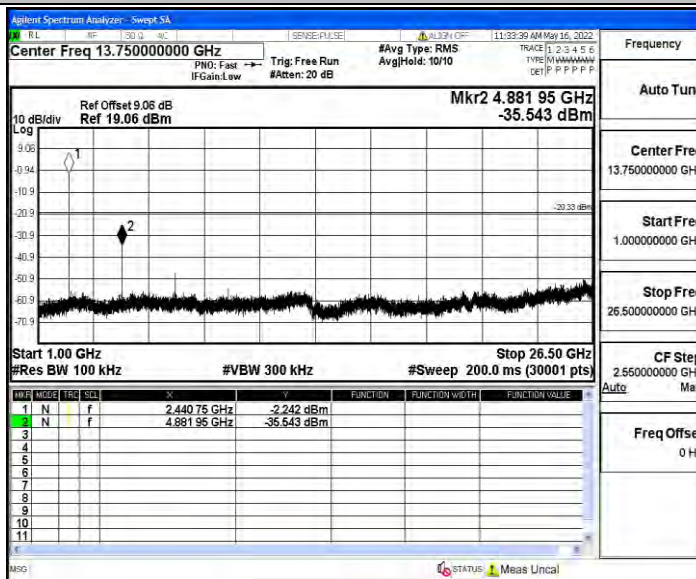
DH5\_Ant1\_2441\_0~Reference



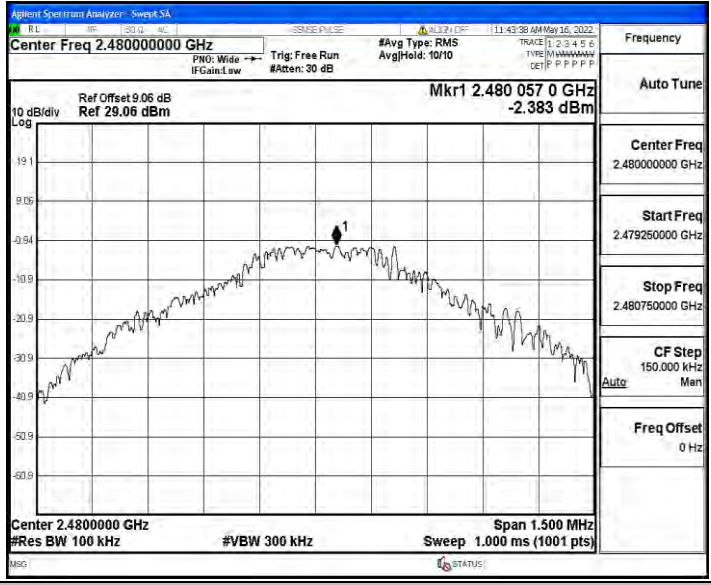
DH5\_Ant1\_2441\_30~1000



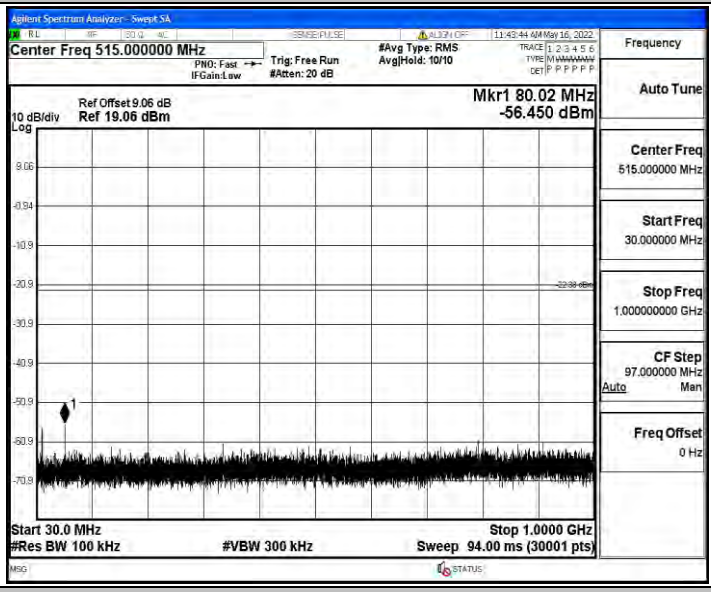
DH5\_Ant1\_2441\_1000~26500



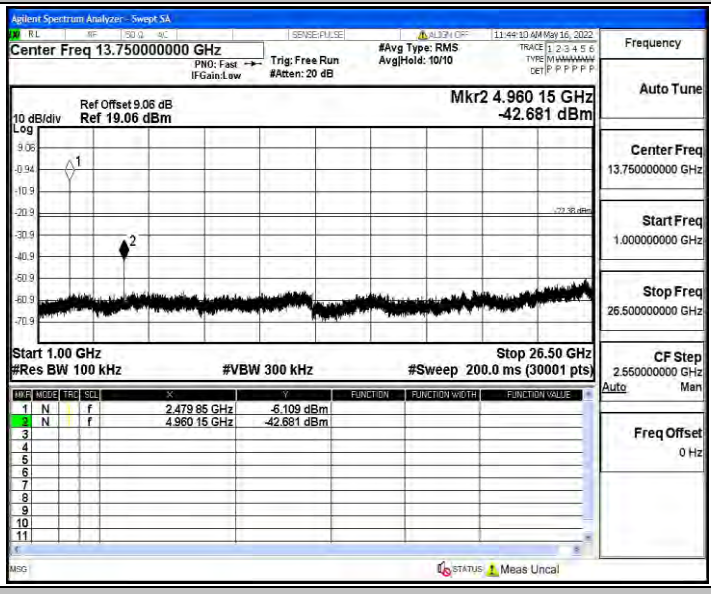
DH5\_Ant1\_2480\_0~Reference



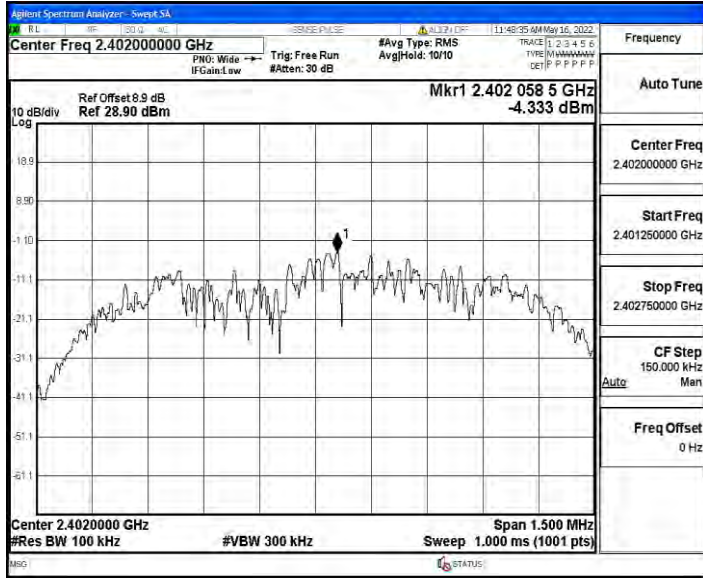
DH5\_Ant1\_2480\_30~1000



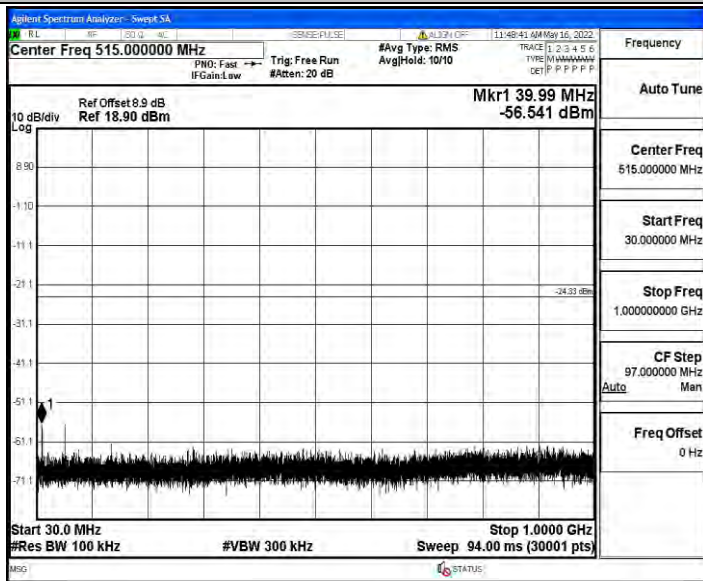
DH5\_Ant1\_2480\_1000~26500



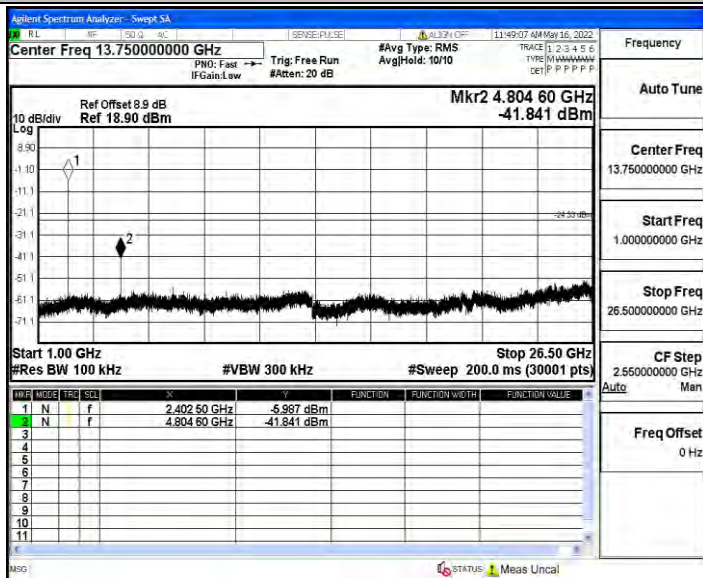
2DH5\_Ant1\_2402\_0~Reference



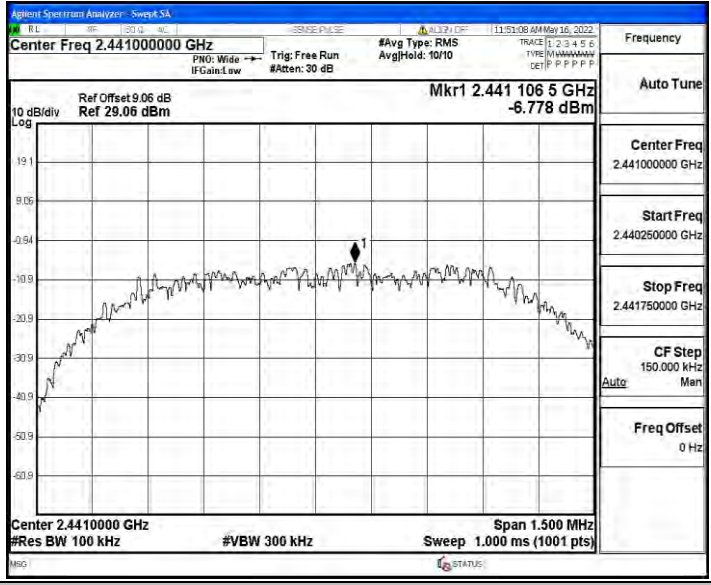
2DH5\_Ant1\_2402\_30~1000



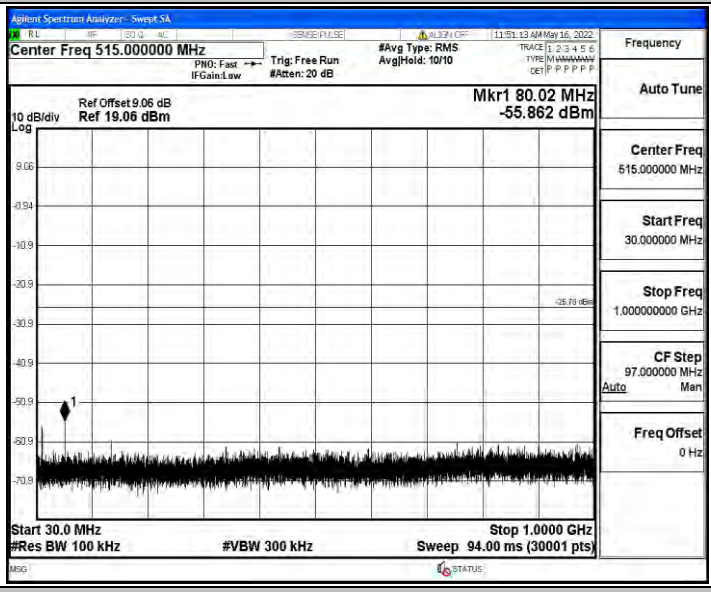
2DH5\_Ant1\_2402\_1000~26500



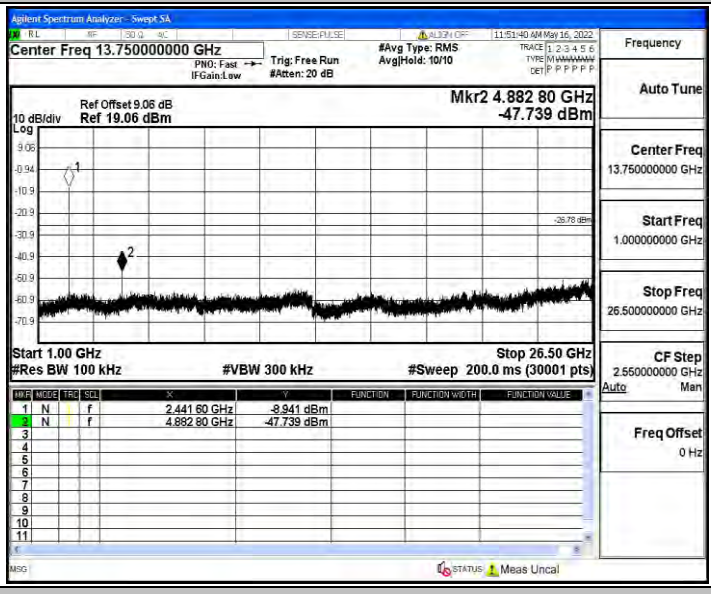
2DH5\_Ant1\_2441\_0~Reference



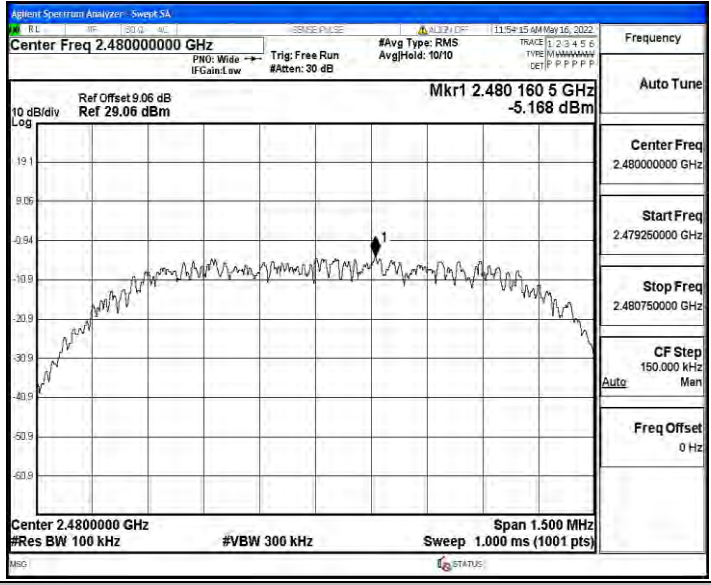
2DH5\_Ant1\_2441\_30~1000



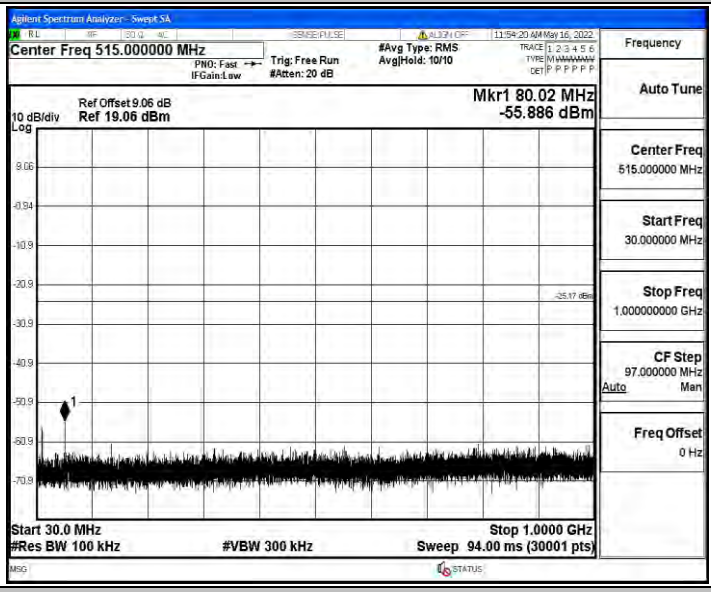
2DH5\_Ant1\_2441\_1000~26500



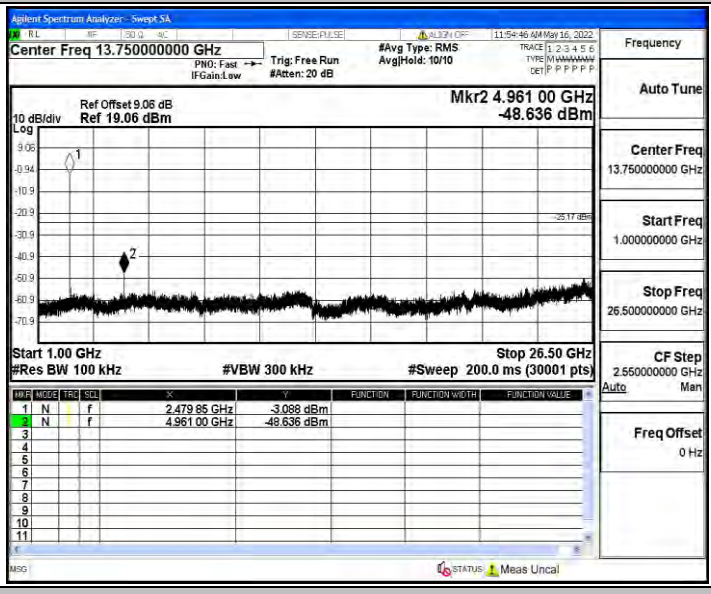
2DH5\_Ant1\_2480\_0~Reference



2DH5\_Ant1\_2480\_30~1000

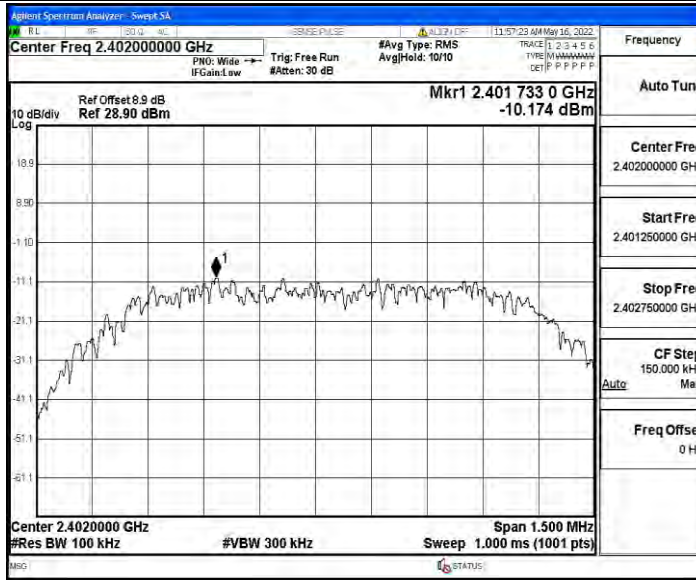


2DH5\_Ant1\_2480\_1000~26500

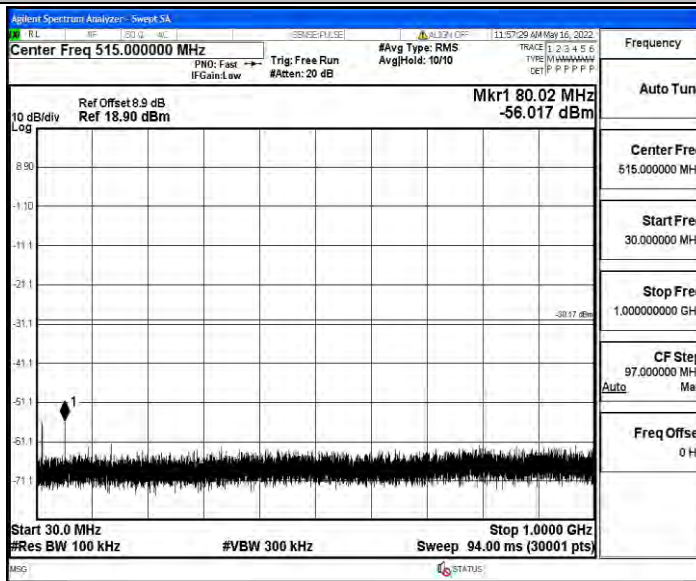


3DH5\_Ant1\_2402\_0~Reference

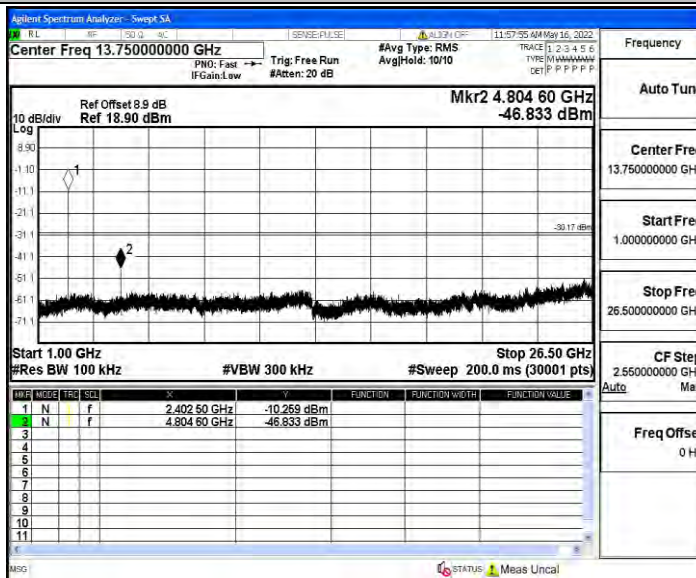




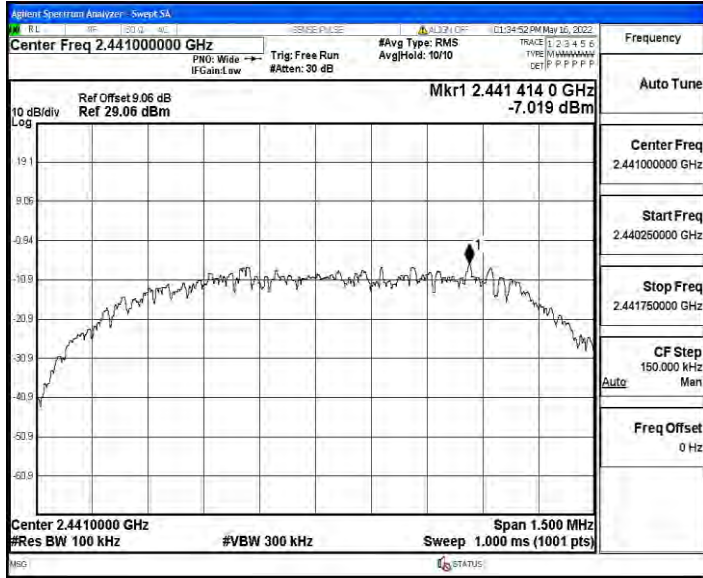
3DH5\_Ant1\_2402\_30~1000



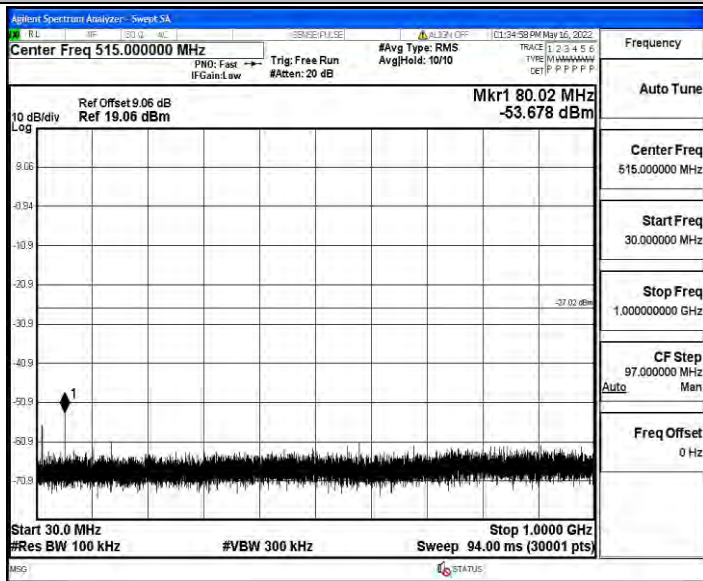
3DH5\_Ant1\_2402\_1000~26500



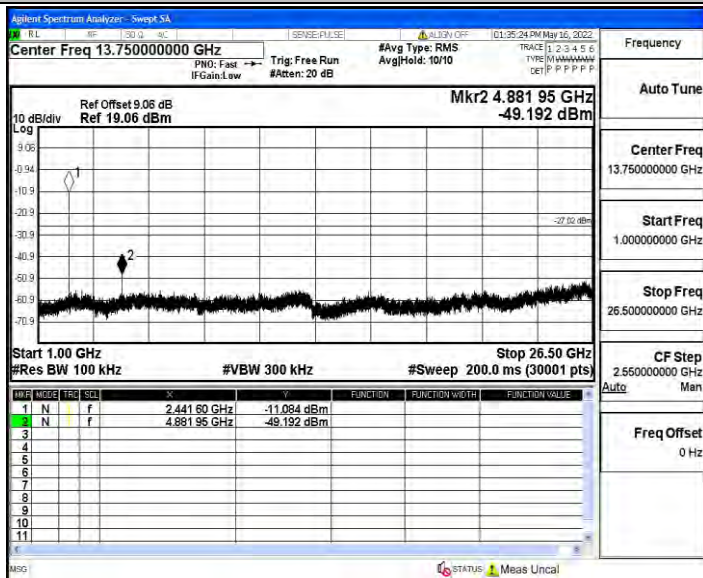
3DH5\_Ant1\_2441\_0~Reference



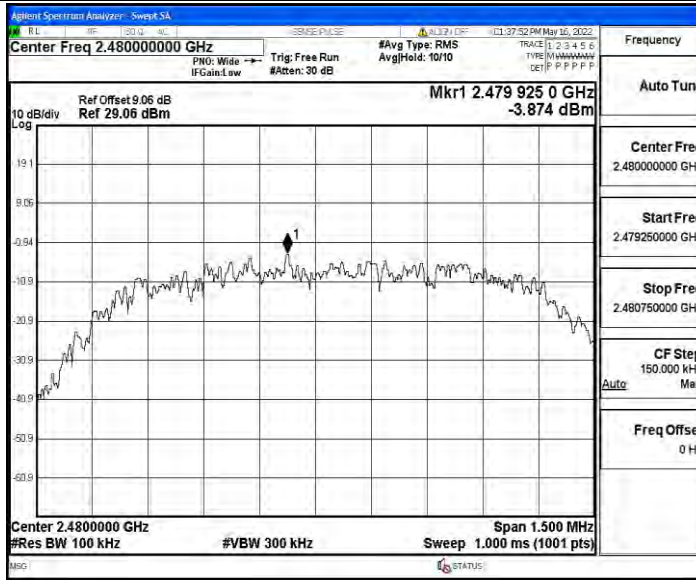
3DH5\_Ant1\_2441\_30~1000



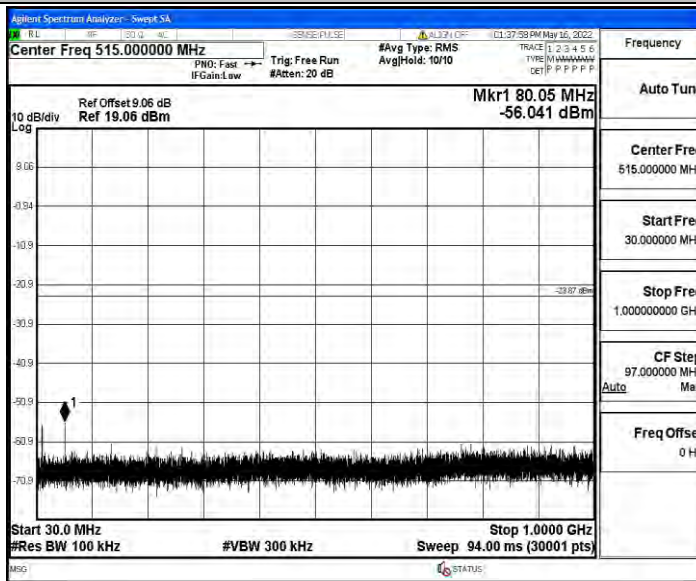
3DH5\_Ant1\_2441\_1000~26500



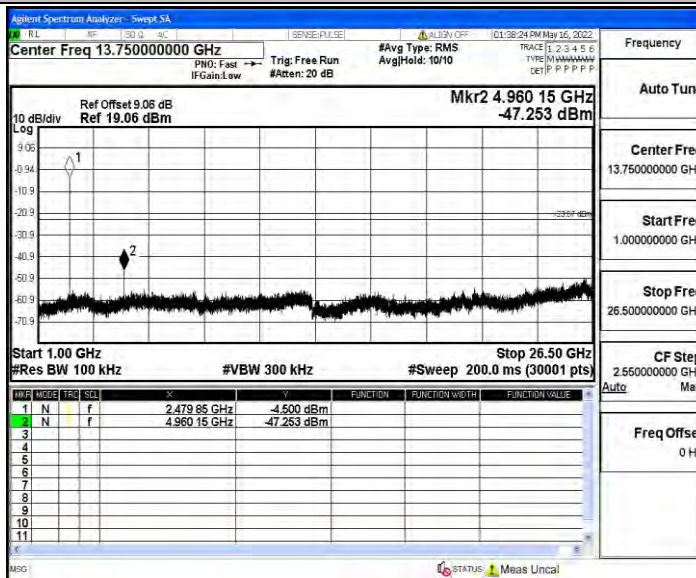
3DH5\_Ant1\_2480\_0~Reference



3DH5\_Ant1\_2480\_30~1000



3DH5\_Ant1\_2480\_1000~26500



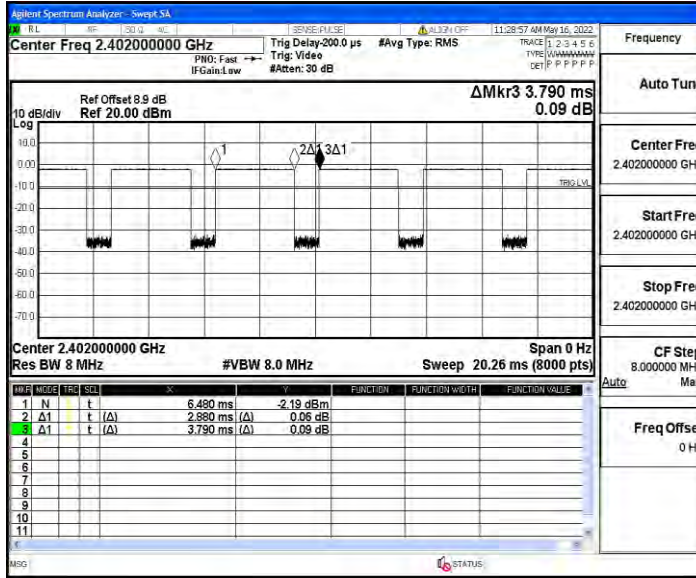
## Appendix I: Duty Cycle

### Test Result

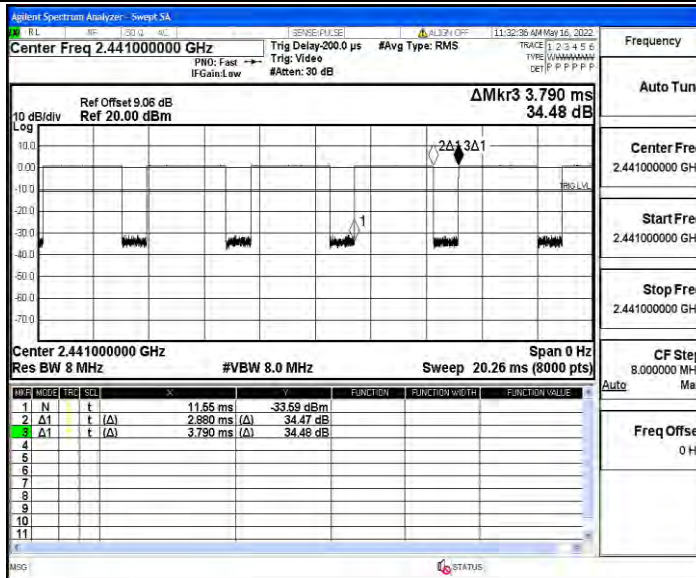
| TestMode | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | 1/T  |
|----------|---------|---------|----------------------------|--------------------------|----------------|------|
| DH5      | Ant1    | 2402    | 2.88                       | 3.79                     | 75.99          | 0.35 |
|          |         | 2441    | 2.88                       | 3.79                     | 75.99          | 0.35 |
|          |         | 2480    | 2.88                       | 3.78                     | 76.19          | 0.35 |
| 2DH5     | Ant1    | 2402    | 2.89                       | 3.79                     | 76.25          | 0.35 |
|          |         | 2441    | 2.89                       | 3.79                     | 76.25          | 0.35 |
|          |         | 2480    | 2.88                       | 3.79                     | 75.99          | 0.35 |
| 3DH5     | Ant1    | 2402    | 2.89                       | 3.80                     | 76.05          | 0.35 |
|          |         | 2441    | 2.89                       | 3.80                     | 76.05          | 0.35 |
|          |         | 2480    | 2.89                       | 3.80                     | 76.05          | 0.35 |

### Test Graphs

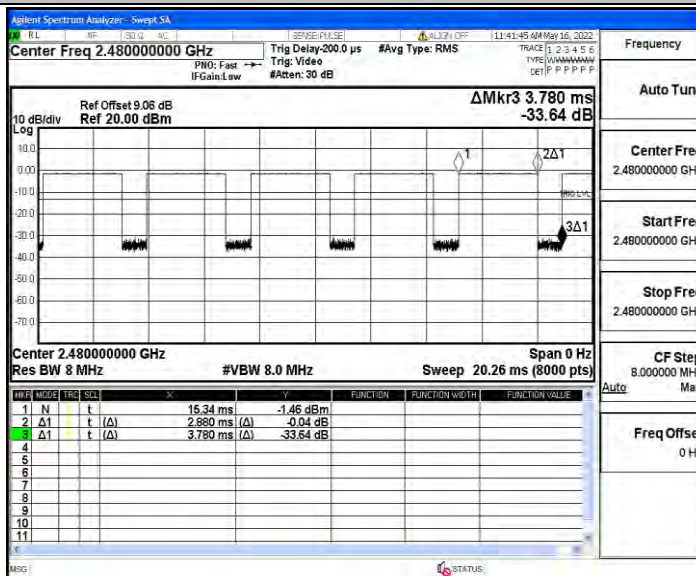
#### DH5\_Ant1\_2402



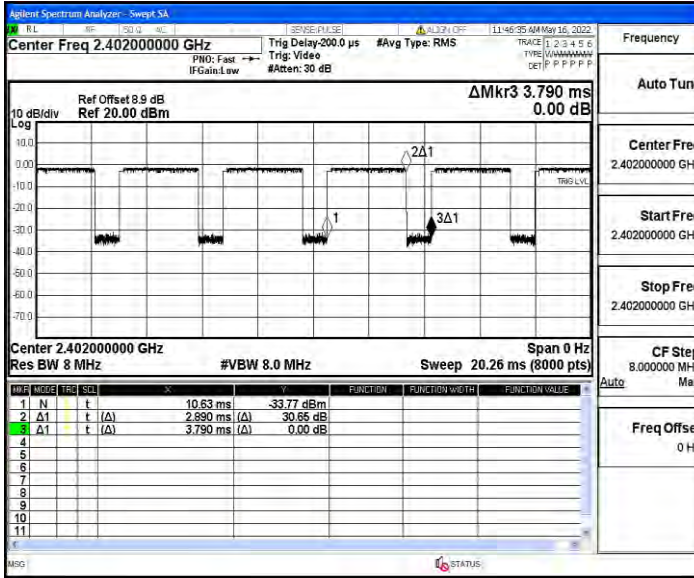
#### DH5\_Ant1\_2441



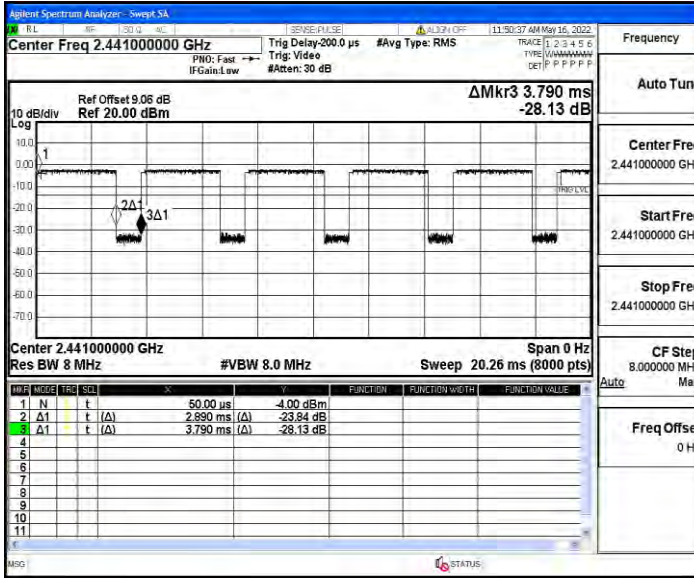
#### DH5\_Ant1\_2480



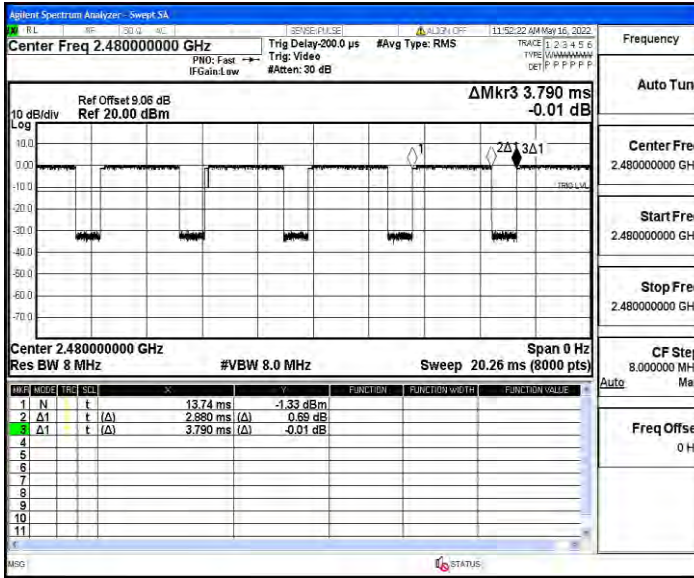
2DH5\_Ant1\_2402



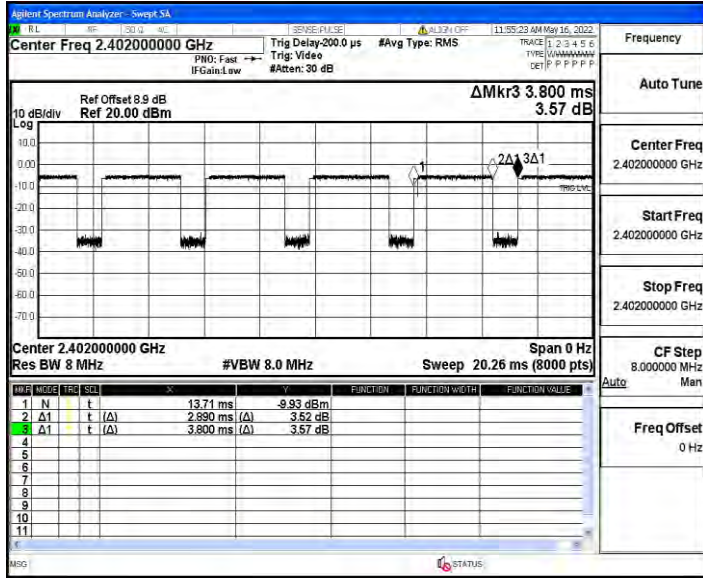
2DH5\_Ant1\_2441



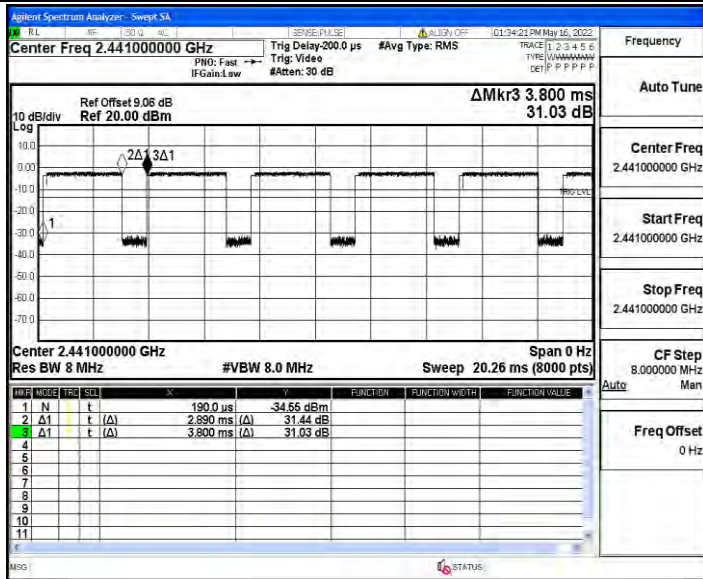
2DH5\_Ant1\_2480



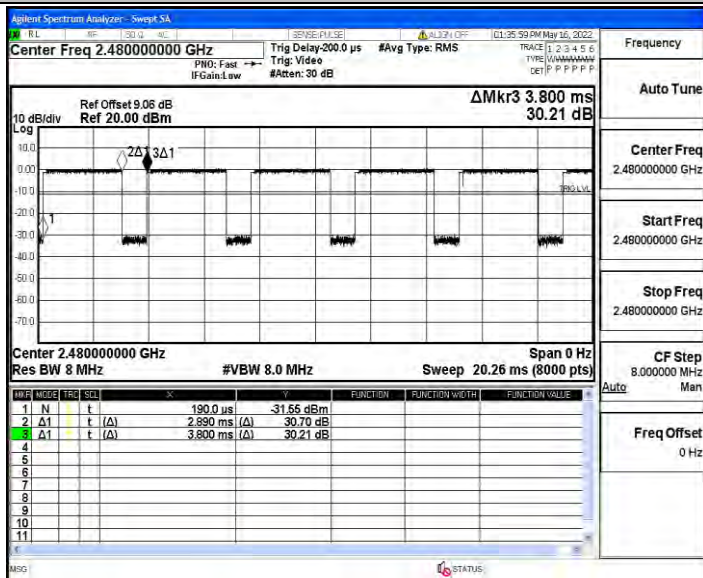
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



## Appendix J: Emissions in Restricted Bands

### Test Result

| TestMode | Antenna | ChName | Channel | Detector | Freq(MHz) | Result(dBm) | Limit(dBm) | Verdict |
|----------|---------|--------|---------|----------|-----------|-------------|------------|---------|
| DH5      | Ant1    | Low    | 2402    | AV       | 2310.000  | -48.01      | ≤-41.20    | PASS    |
|          |         |        |         | AV       | 2361.950  | -47.54      | ≤-41.20    | PASS    |
|          |         |        |         | AV       | 2390.000  | -47.68      | ≤-41.20    | PASS    |
|          |         |        |         | Peak     | 2310.000  | -41.75      | ≤-21.20    | PASS    |
|          |         |        |         | Peak     | 2342.420  | -38.31      | ≤-21.20    | PASS    |
|          |         |        |         | Peak     | 2390.000  | -42.34      | ≤-21.20    | PASS    |
|          |         | High   | 2480    | AV       | 2483.500  | -47.05      | ≤-41.20    | PASS    |
|          |         |        |         | AV       | 2498.640  | -46.93      | ≤-41.20    | PASS    |
|          |         |        |         | AV       | 2500.000  | -47.1       | ≤-41.20    | PASS    |
|          |         |        |         | Peak     | 2483.500  | -38.98      | ≤-21.20    | PASS    |
|          |         |        |         | Peak     | 2484.560  | -37.8       | ≤-21.20    | PASS    |
|          |         |        |         | Peak     | 2500.000  | -40.9       | ≤-21.20    | PASS    |
| 2DH5     | Ant1    | Low    | 2402    | AV       | 2310.000  | -48.03      | ≤-41.20    | PASS    |
|          |         |        |         | AV       | 2362.055  | -47.64      | ≤-41.20    | PASS    |
|          |         |        |         | AV       | 2390.000  | -47.82      | ≤-41.20    | PASS    |
|          |         |        |         | Peak     | 2310.000  | -41.41      | ≤-21.20    | PASS    |
|          |         |        |         | Peak     | 2344.730  | -37.46      | ≤-21.20    | PASS    |
|          |         |        |         | Peak     | 2390.000  | -40.71      | ≤-21.20    | PASS    |
|          |         | High   | 2480    | AV       | 2483.500  | -46.77      | ≤-41.20    | PASS    |
|          |         |        |         | AV       | 2483.520  | -46.77      | ≤-41.20    | PASS    |
|          |         |        |         | AV       | 2500.000  | -47.04      | ≤-41.20    | PASS    |
|          |         |        |         | Peak     | 2483.500  | -39.11      | ≤-21.20    | PASS    |
|          |         |        |         | Peak     | 2495.840  | -37.55      | ≤-21.20    | PASS    |
|          |         |        |         | Peak     | 2500.000  | -40.86      | ≤-21.20    | PASS    |
| 3DH5     | Ant1    | Low    | 2402    | AV       | 2310.000  | -48.01      | ≤-41.20    | PASS    |
|          |         |        |         | AV       | 2362.580  | -47.61      | ≤-41.20    | PASS    |
|          |         |        |         | AV       | 2390.000  | -47.82      | ≤-41.20    | PASS    |
|          |         |        |         | Peak     | 2310.000  | -40.97      | ≤-21.20    | PASS    |
|          |         |        |         | Peak     | 2337.170  | -37.87      | ≤-21.20    | PASS    |
|          |         |        |         | Peak     | 2390.000  | -40.56      | ≤-21.20    | PASS    |
|          |         | High   | 2480    | AV       | 2483.500  | -46.8       | ≤-41.20    | PASS    |
|          |         |        |         | AV       | 2483.520  | -46.8       | ≤-41.20    | PASS    |
|          |         |        |         | AV       | 2500.000  | -46.96      | ≤-41.20    | PASS    |
|          |         |        |         | Peak     | 2483.500  | -39.26      | ≤-21.20    | PASS    |
|          |         |        |         | Peak     | 2494.560  | -37.46      | ≤-21.20    | PASS    |
|          |         |        |         | Peak     | 2500.000  | -41.03      | ≤-21.20    | PASS    |

#### Note:

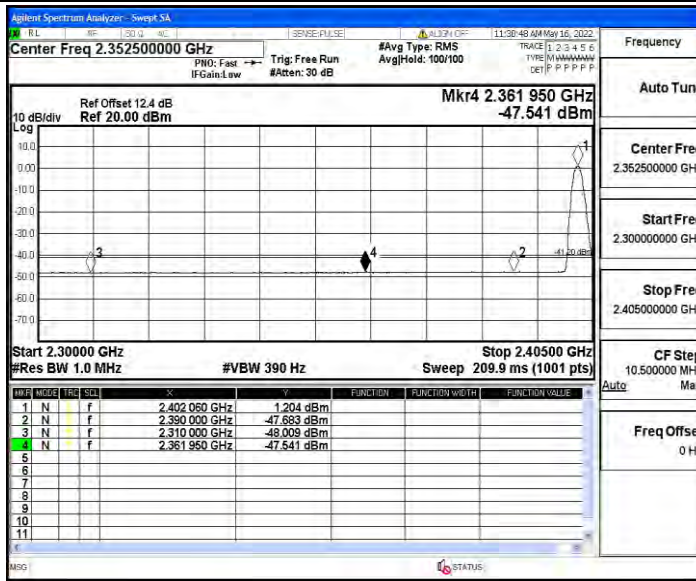
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in



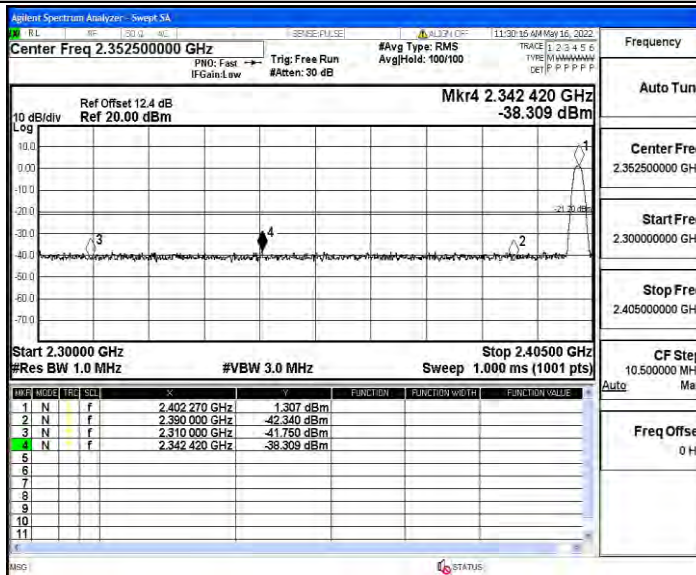
dBm for peak detector is 20dB above the limit of average detector in

Test Graphs

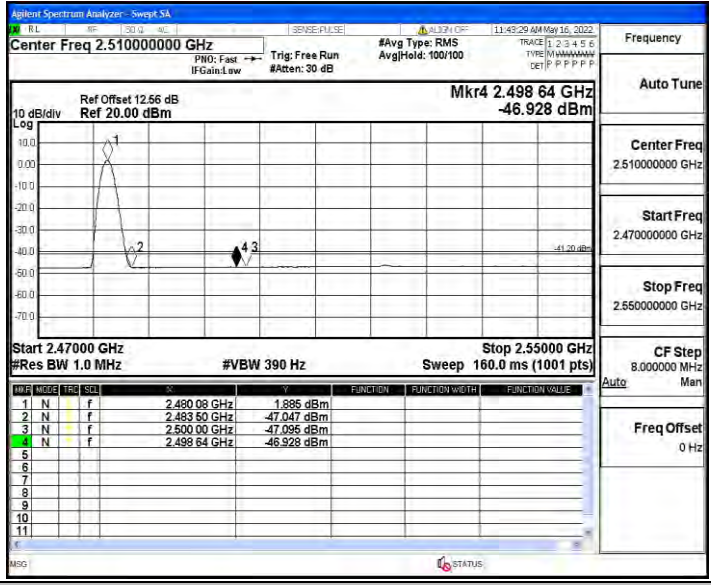
DH5\_Ant1\_Low\_2402\_AV



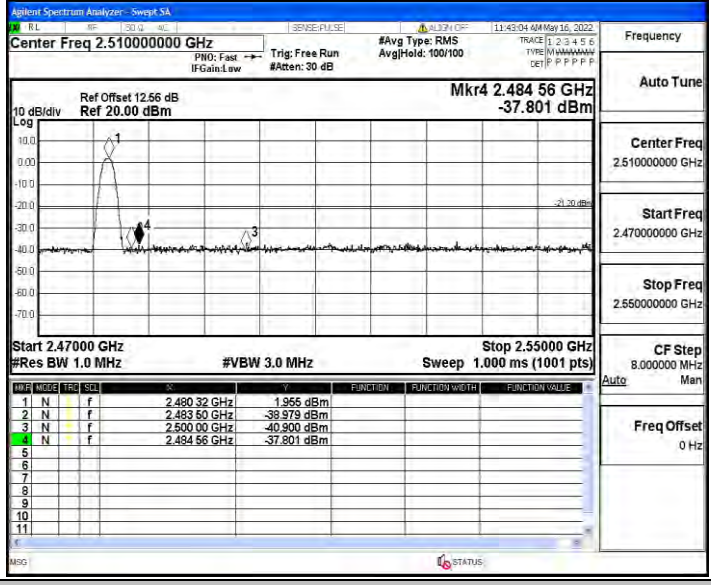
DH5\_Ant1\_Low\_2402\_Peak



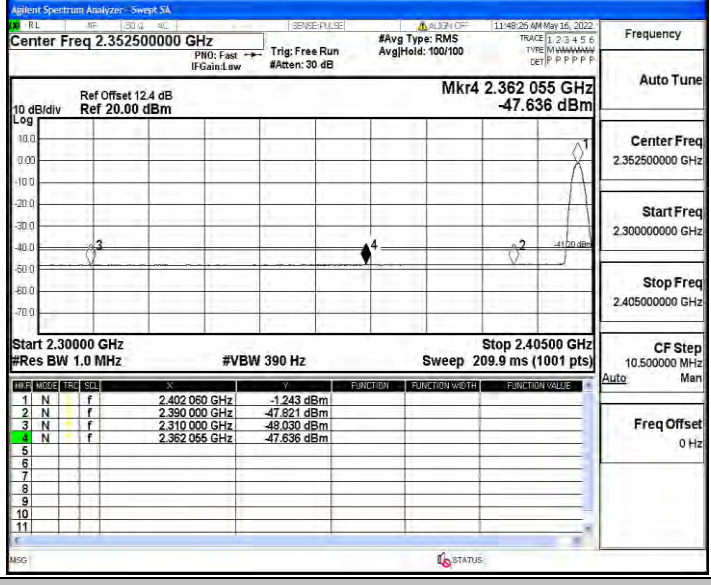
DH5\_Ant1\_High\_2480\_AV



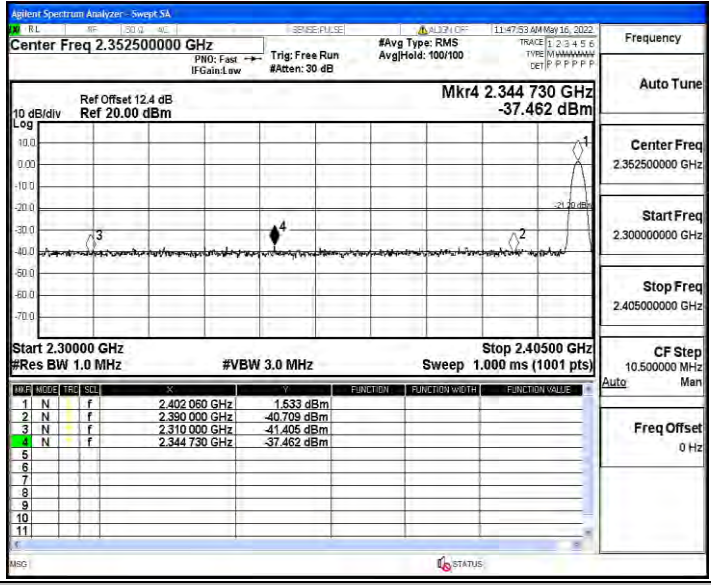
DH5\_Ant1\_High\_2480\_Peak



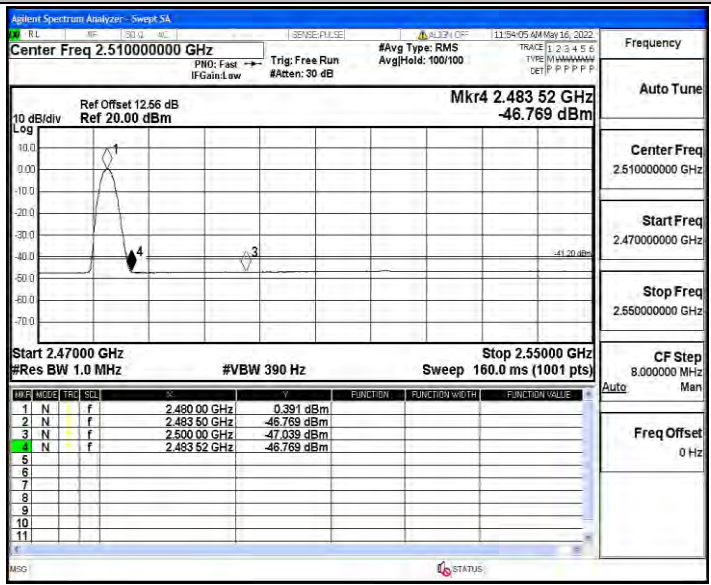
2DH5\_Ant1\_Low\_2402\_AV



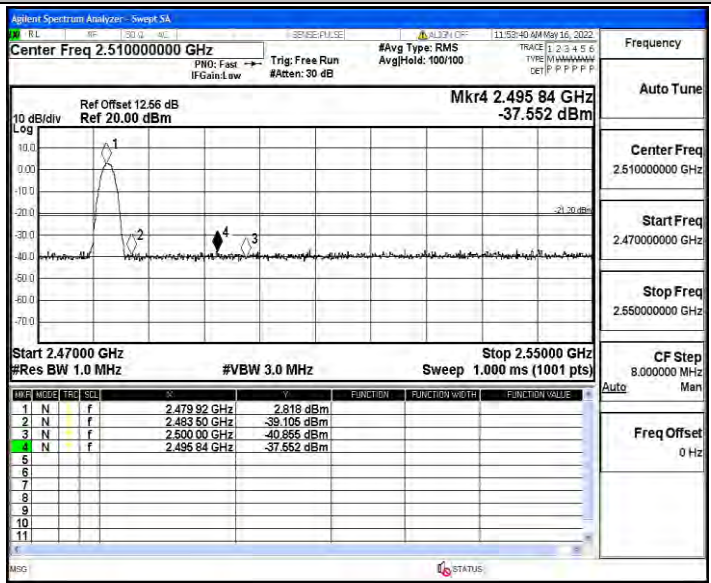
2DH5\_Ant1\_Low\_2402\_Peak



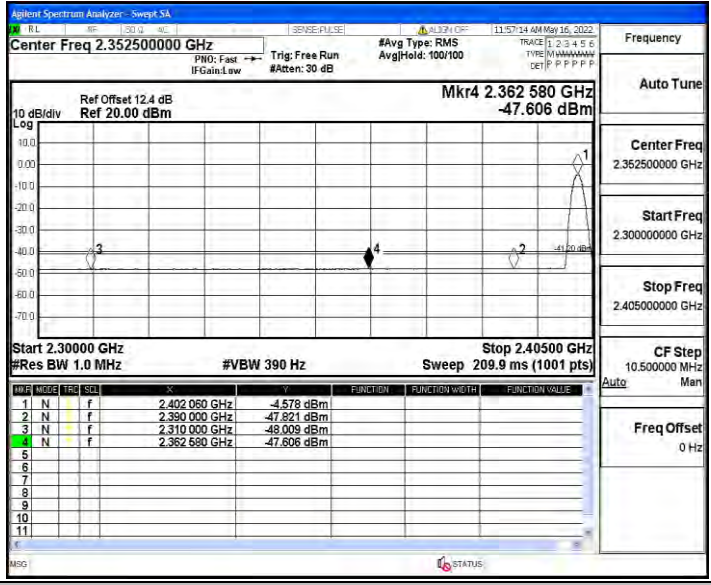
2DH5\_Ant1\_High\_2480\_AV



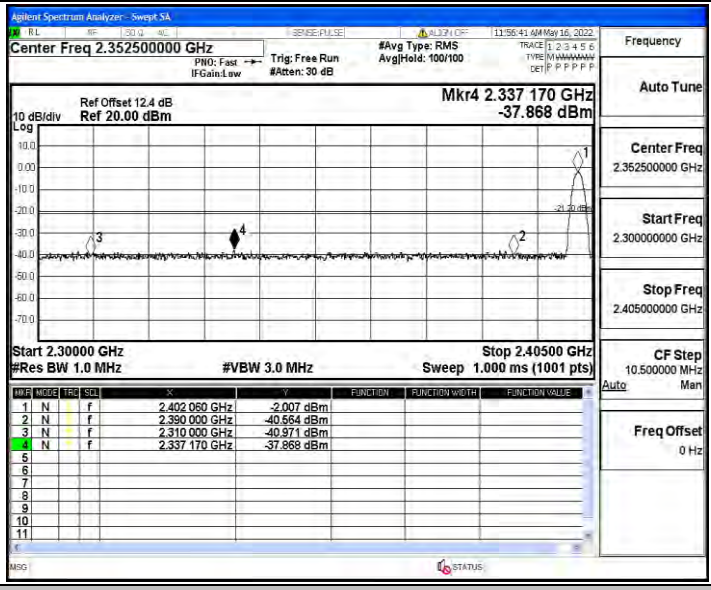
2DH5\_Ant1\_High\_2480\_Peak



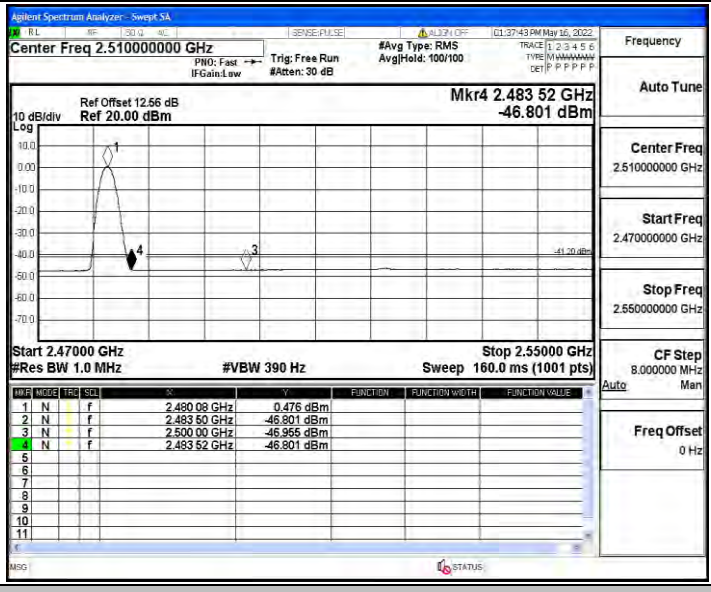
3DH5\_Ant1\_Low\_2402\_AV



3DH5\_Ant1\_Low\_2402\_Peak



3DH5\_Ant1\_High\_2480\_AV



3DH5\_Ant1\_High\_2480\_Peak

