

|                                                       |                                          |
|-------------------------------------------------------|------------------------------------------|
| <b>Case No. :</b> <u>GTS20250326027-1-01</u>          |                                          |
| <b>Ambient Condition:</b> <u>22</u> °C, <u>51</u> %RH |                                          |
| <b>According Standard:</b> ■Part15C                   |                                          |
| <b>Test Date:</b> <u>2025.4.18-2025.6.22</u>          | <b>Test Engineer:</b> <u>Evan ouyang</u> |

## Appendix A.1: 20dB Emission Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | 20dB<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|-----------|------------------|----------|----------|------------|---------|
| DH1      | Ant1    | 2402      | 0.942            | 2401.517 | 2402.459 | ---        | ---     |
|          |         | 2441      | 0.936            | 2440.520 | 2441.456 | ---        | ---     |
|          |         | 2480      | 0.939            | 2479.520 | 2480.459 | ---        | ---     |
| 2DH1     | Ant1    | 2402      | 1.302            | 2401.331 | 2402.633 | ---        | ---     |
|          |         | 2441      | 1.293            | 2440.322 | 2441.615 | ---        | ---     |
|          |         | 2480      | 1.314            | 2479.319 | 2480.633 | ---        | ---     |
| 3DH1     | Ant1    | 2402      | 1.245            | 2401.376 | 2402.621 | ---        | ---     |
|          |         | 2441      | 1.272            | 2440.346 | 2441.618 | ---        | ---     |
|          |         | 2480      | 1.275            | 2479.340 | 2480.615 | ---        | ---     |

## Test Graphs

DH1\_Ant1\_2402



DH1\_Ant1\_2441



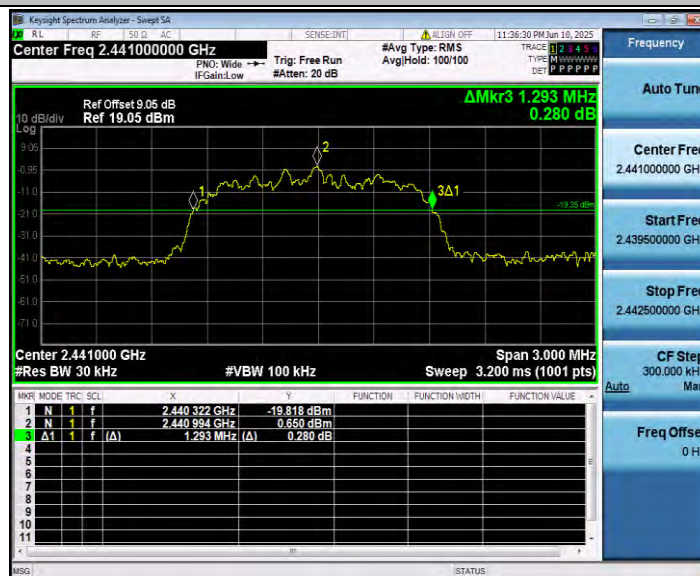
DH1\_Ant1\_2480



2DH1\_Ant1\_2402



2DH1\_Ant1\_2441



## 2DH1\_Ant1\_2480



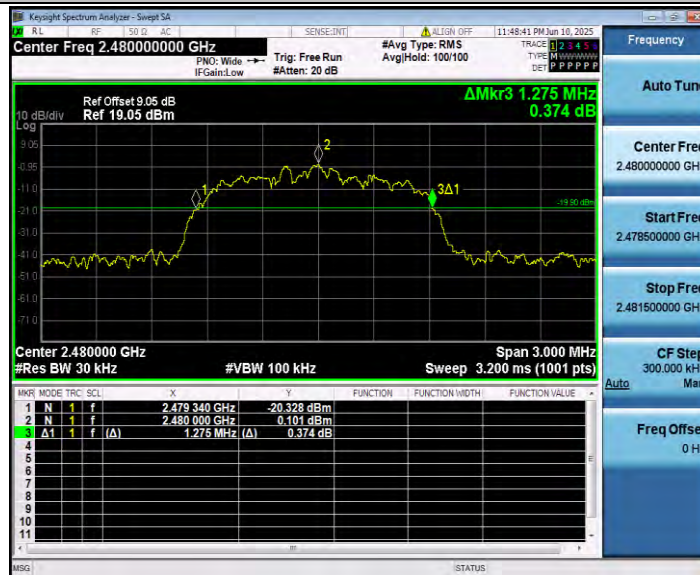
## 3DH1\_Ant1\_2402



## 3DH1\_Ant1\_2441



3DH1\_Ant1\_2480



## Appendix A.2: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|-----------|-----------|-----------|-----------|------------|---------|
| DH1      | Ant1    | 2402      | 0.83729   | 2401.5672 | 2402.4045 | ---        | ---     |
|          |         | 2441      | 0.83822   | 2440.5711 | 2441.4093 | ---        | ---     |
|          |         | 2480      | 0.82998   | 2479.5671 | 2480.3971 | ---        | ---     |
| 2DH1     | Ant1    | 2402      | 1.1735    | 2401.3907 | 2402.5642 | ---        | ---     |
|          |         | 2441      | 1.1735    | 2440.3900 | 2441.5635 | ---        | ---     |
|          |         | 2480      | 1.1784    | 2479.3855 | 2480.5639 | ---        | ---     |
| 3DH1     | Ant1    | 2402      | 1.1636    | 2401.4123 | 2402.5759 | ---        | ---     |
|          |         | 2441      | 1.1684    | 2440.4109 | 2441.5793 | ---        | ---     |
|          |         | 2480      | 1.1638    | 2479.4132 | 2480.5770 | ---        | ---     |

## Test Graphs

DH1\_Ant1\_2402



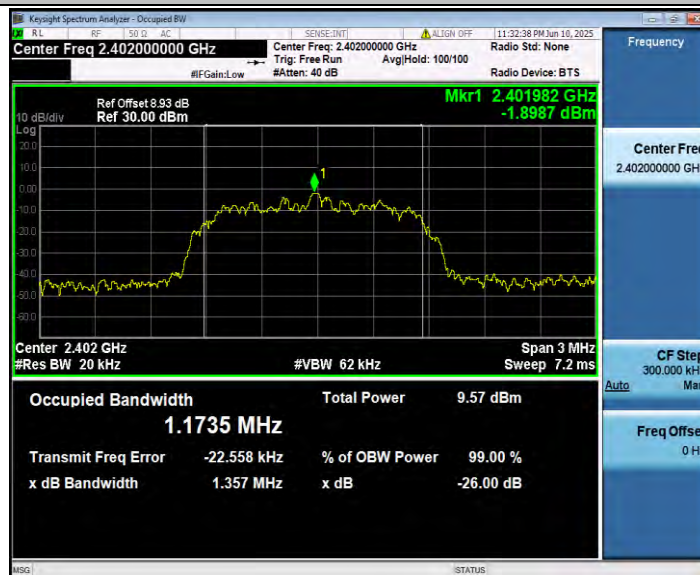
DH1\_Ant1\_2441



DH1\_Ant1\_2480



2DH1\_Ant1\_2402



2DH1\_Ant1\_2441



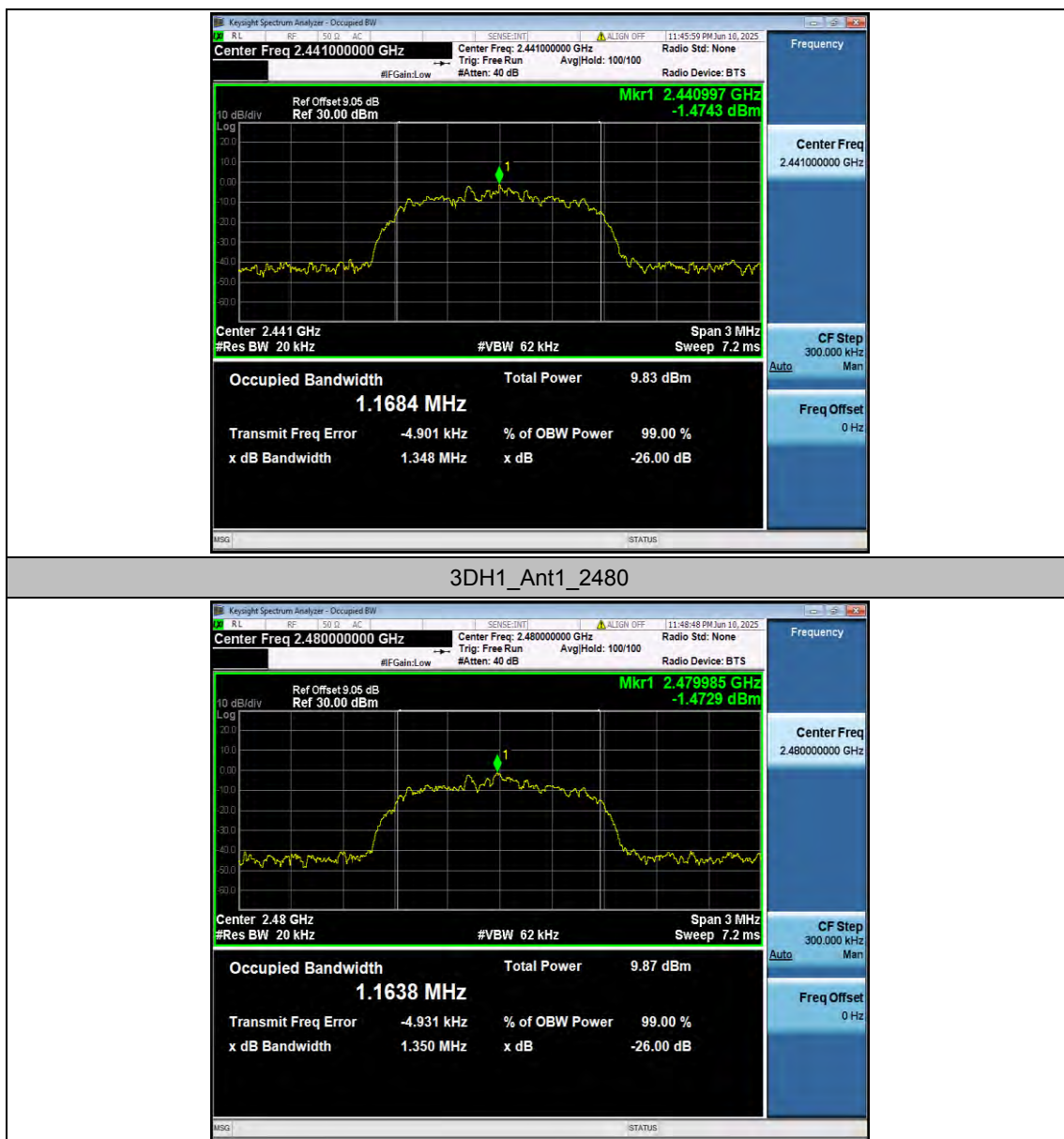
## 2DH1\_Ant1\_2480



## 3DH1\_Ant1\_2402



## 3DH1\_Ant1\_2441



## Appendix A.3: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Freq(MHz) | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------|---------------------------|----------------------|---------|
| DH1       | Ant1    | 2402      | 7.44                      | $\leq 20.97$         | PASS    |
|           |         | 2441      | 7.96                      | $\leq 20.97$         | PASS    |
|           |         | 2480      | 7.74                      | $\leq 20.97$         | PASS    |
| 2DH1      | Ant1    | 2402      | 6.81                      | $\leq 20.97$         | PASS    |
|           |         | 2441      | 7.34                      | $\leq 20.97$         | PASS    |
|           |         | 2480      | 7.16                      | $\leq 20.97$         | PASS    |
| 3DH1      | Ant1    | 2402      | 7.06                      | $\leq 20.97$         | PASS    |
|           |         | 2441      | 7.54                      | $\leq 20.97$         | PASS    |
|           |         | 2480      | 7.46                      | $\leq 20.97$         | PASS    |

## Appendix A.4: Carrier frequency separation

### Test Result

| TestMode | Antenna | Freq(MHz) | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|-----------|-------------|--------------|---------|
| DH1      | Ant1    | Hop_2402  | 0.88        | $\geq 0.628$ | PASS    |
|          |         | Hop_2441  | 1.02        | $\geq 0.628$ | PASS    |
|          |         | Hop_2480  | 1.006       | $\geq 0.628$ | PASS    |
| 2DH1     | Ant1    | Hop_2402  | 0.992       | $\geq 0.876$ | PASS    |
|          |         | Hop_2441  | 1.018       | $\geq 0.876$ | PASS    |
|          |         | Hop_2480  | 0.99        | $\geq 0.876$ | PASS    |
| 3DH1     | Ant1    | Hop_2402  | 1.002       | $\geq 0.850$ | PASS    |
|          |         | Hop_2441  | 0.996       | $\geq 0.850$ | PASS    |
|          |         | Hop_2480  | 0.998       | $\geq 0.850$ | PASS    |

## Test Graphs

DH1\_Ant1\_Hop\_2402



DH1\_Ant1\_Hop\_2441



DH1\_Ant1\_Hop\_2480



2DH1\_Ant1\_Hop\_2402



2DH1\_Ant1\_Hop\_2441



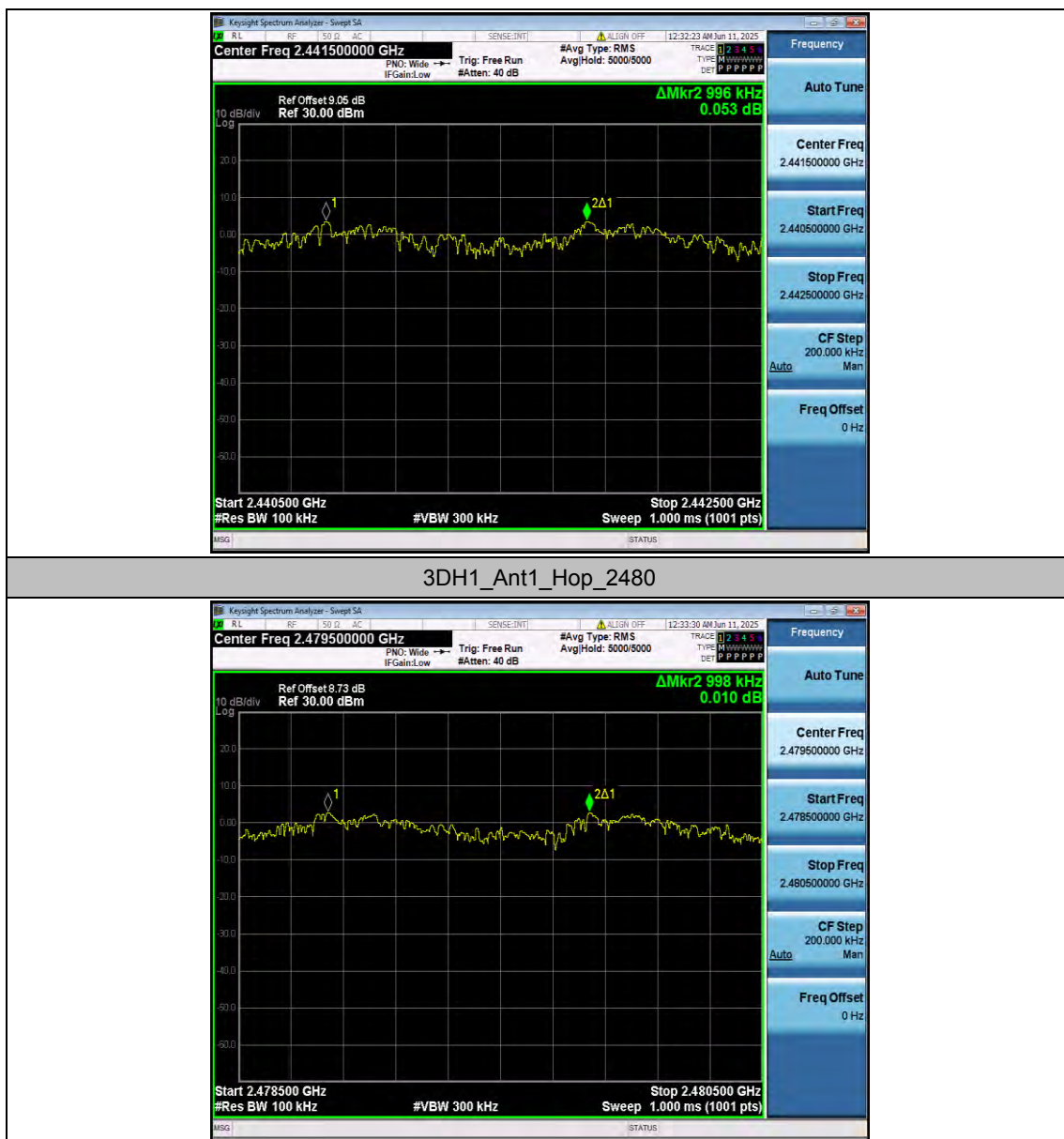
## 2DH1\_Ant1\_Hop\_2480



## 3DH1\_Ant1\_Hop\_2402



## 3DH1\_Ant1\_Hop\_2441

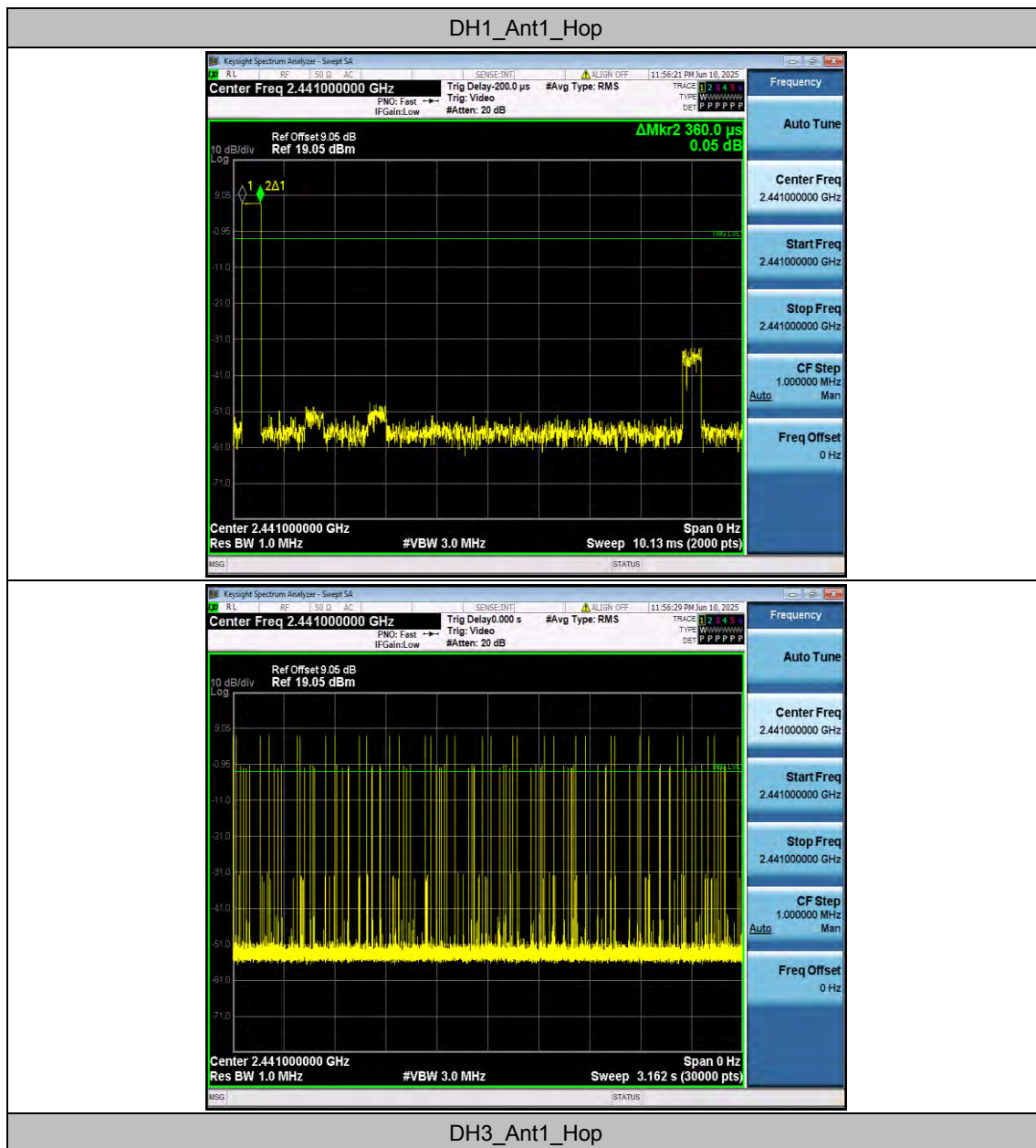


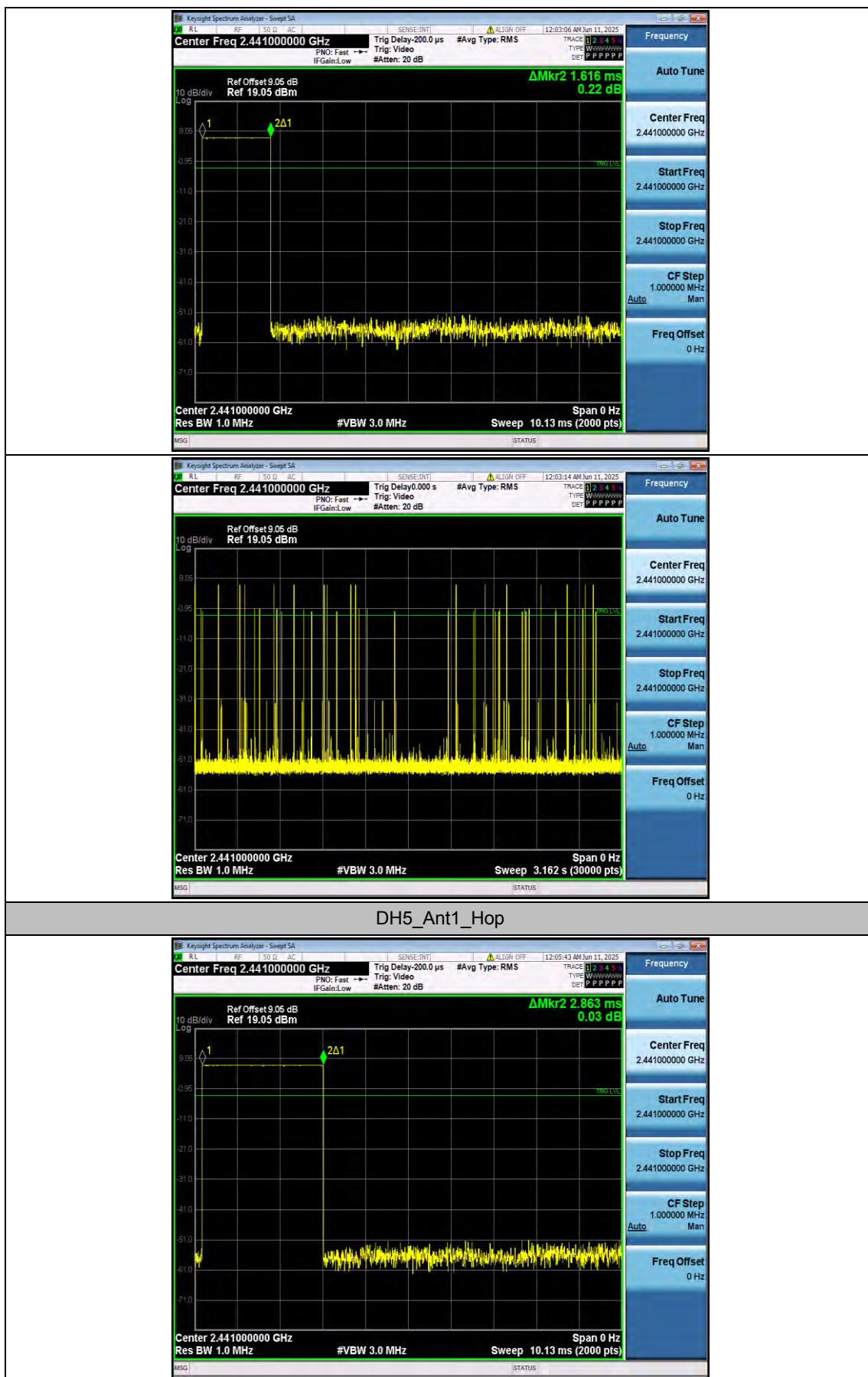
## Appendix A.5: Time of occupancy

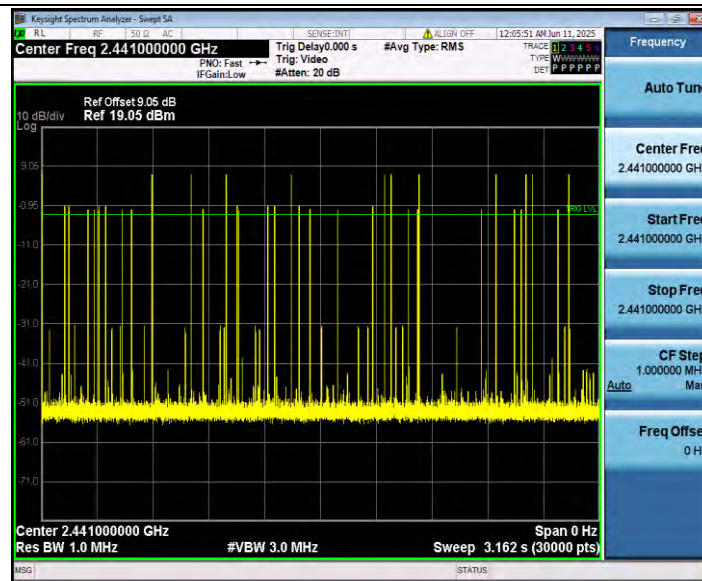
### Test Result

| TestMode | Antenna | Freq(MHz) | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|-----------|--------------------|--------------------|-----------|----------|---------|
| DH1      | Ant1    | Hop       | 0.360              | 330                | 0.119     | ≤0.4     | PASS    |
| DH3      | Ant1    | Hop       | 1.616              | 170                | 0.275     | ≤0.4     | PASS    |
| DH5      | Ant1    | Hop       | 2.863              | 120                | 0.344     | ≤0.4     | PASS    |
| 2DH1     | Ant1    | Hop       | 0.360              | 320                | 0.115     | ≤0.4     | PASS    |
| 2DH3     | Ant1    | Hop       | 1.616              | 150                | 0.242     | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop       | 2.863              | 120                | 0.344     | ≤0.4     | PASS    |
| 3DH1     | Ant1    | Hop       | 0.360              | 330                | 0.119     | ≤0.4     | PASS    |
| 3DH3     | Ant1    | Hop       | 1.616              | 180                | 0.291     | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop       | 2.863              | 100                | 0.286     | ≤0.4     | PASS    |

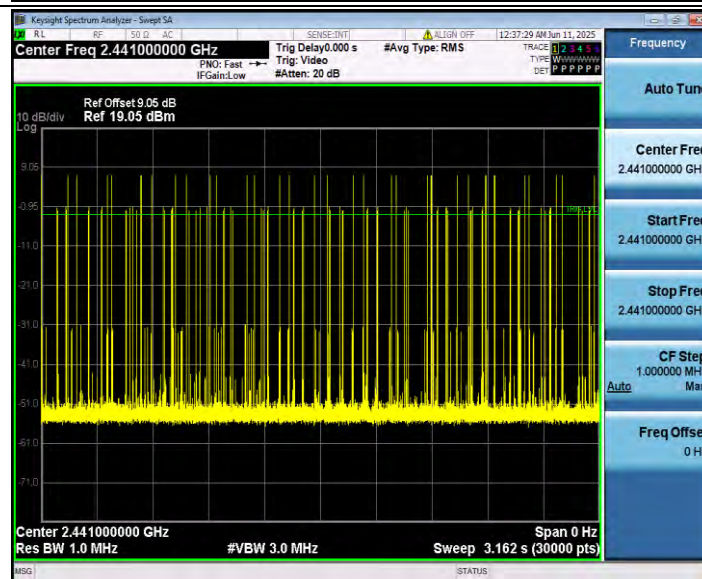
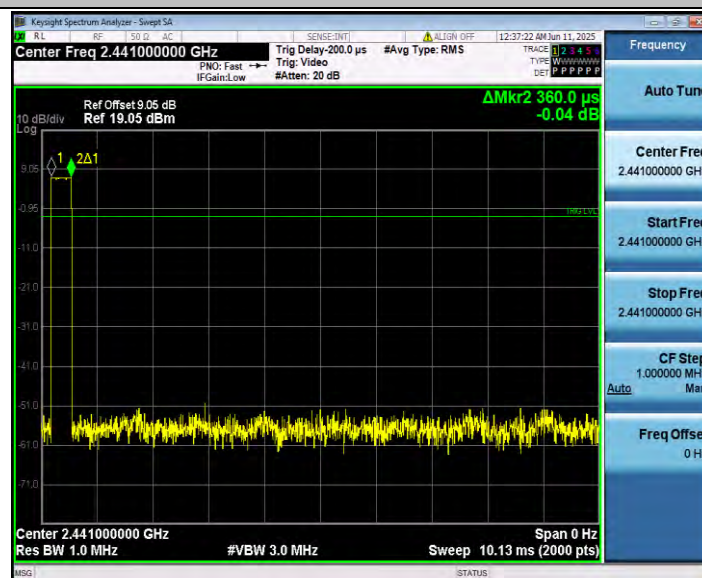
## Test Graphs



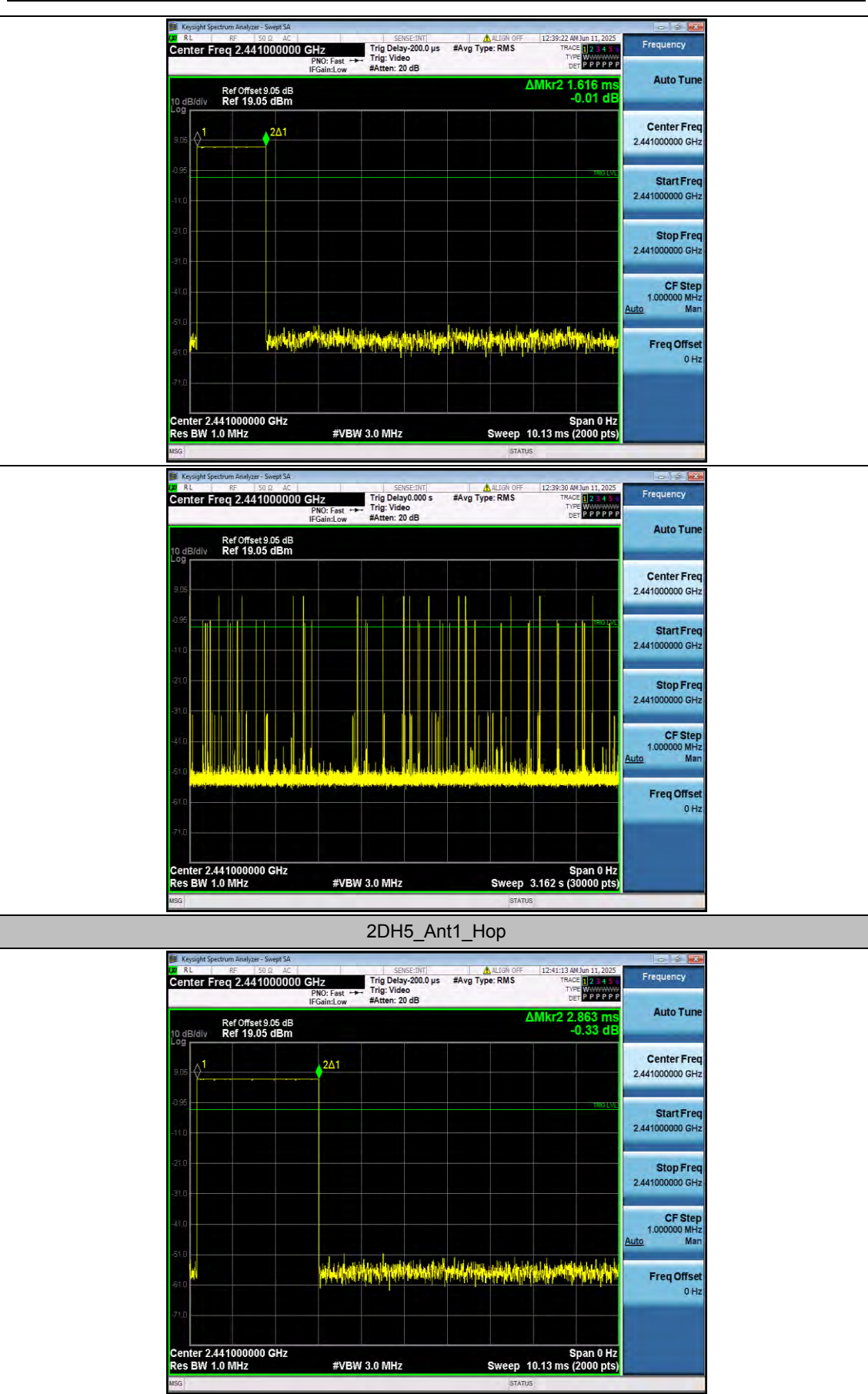




2DH1\_Ant1\_Hop

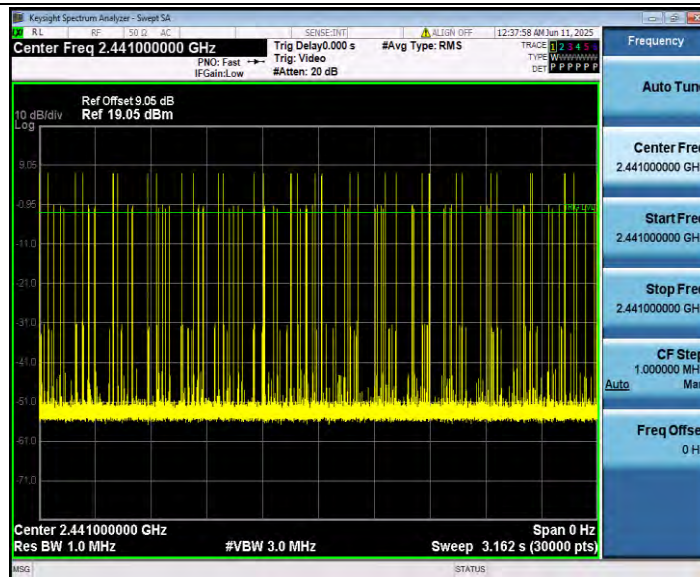
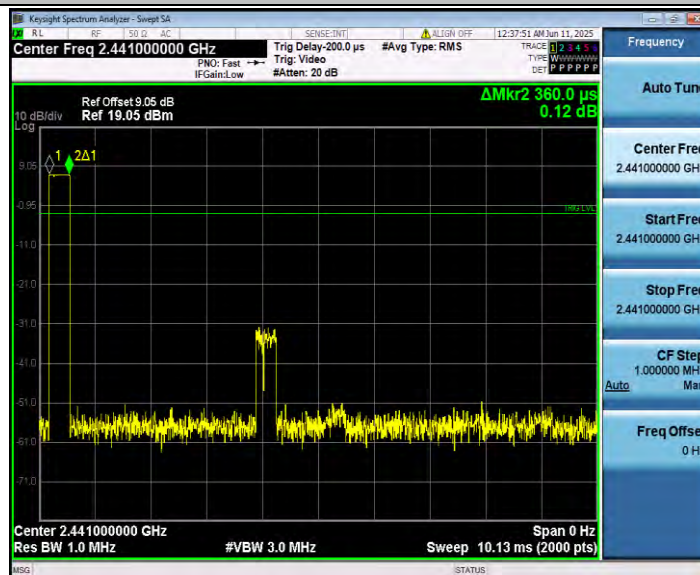


2DH3\_Ant1\_Hop

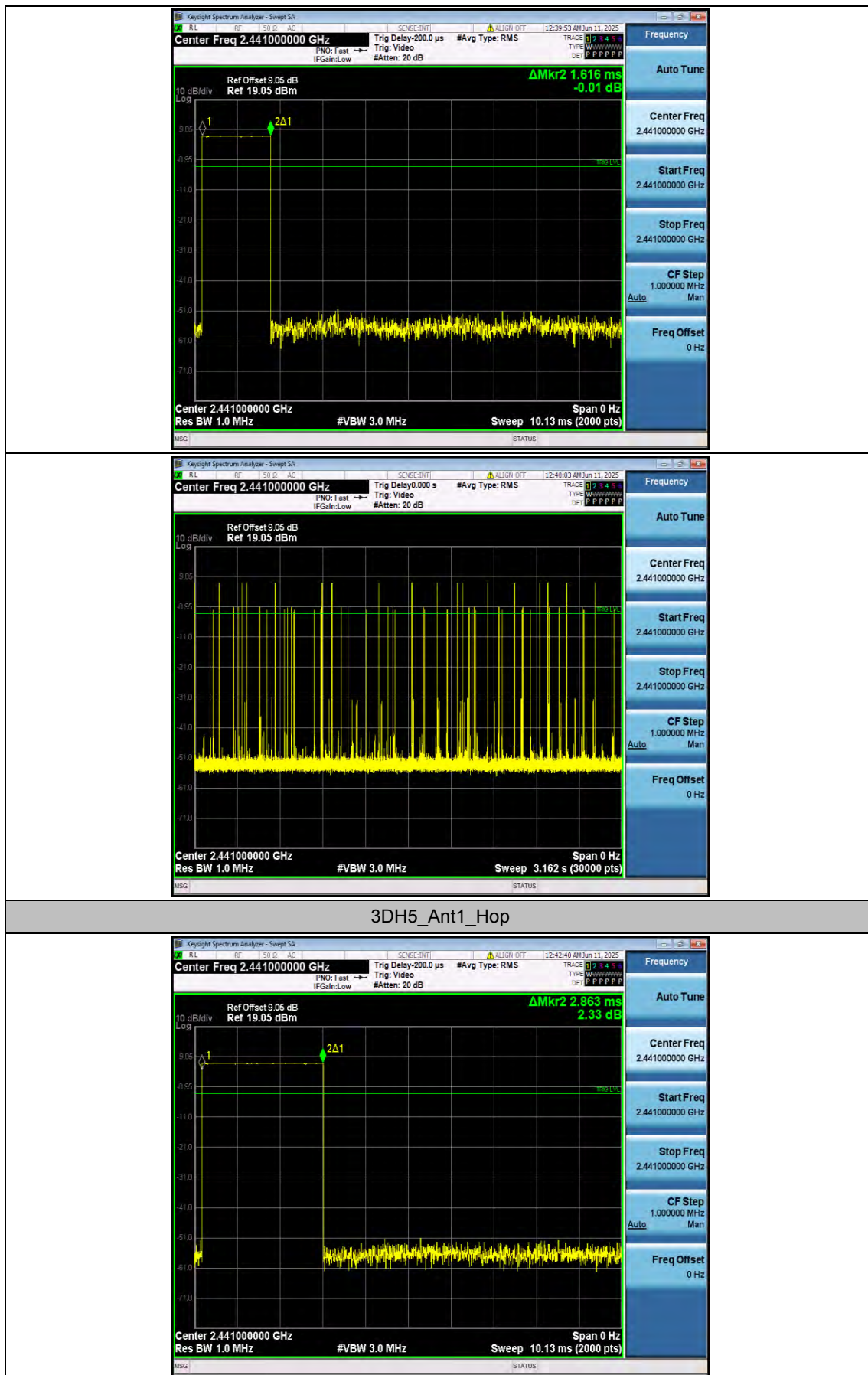




3DH1\_Ant1\_Hop



3DH3\_Ant1\_Hop



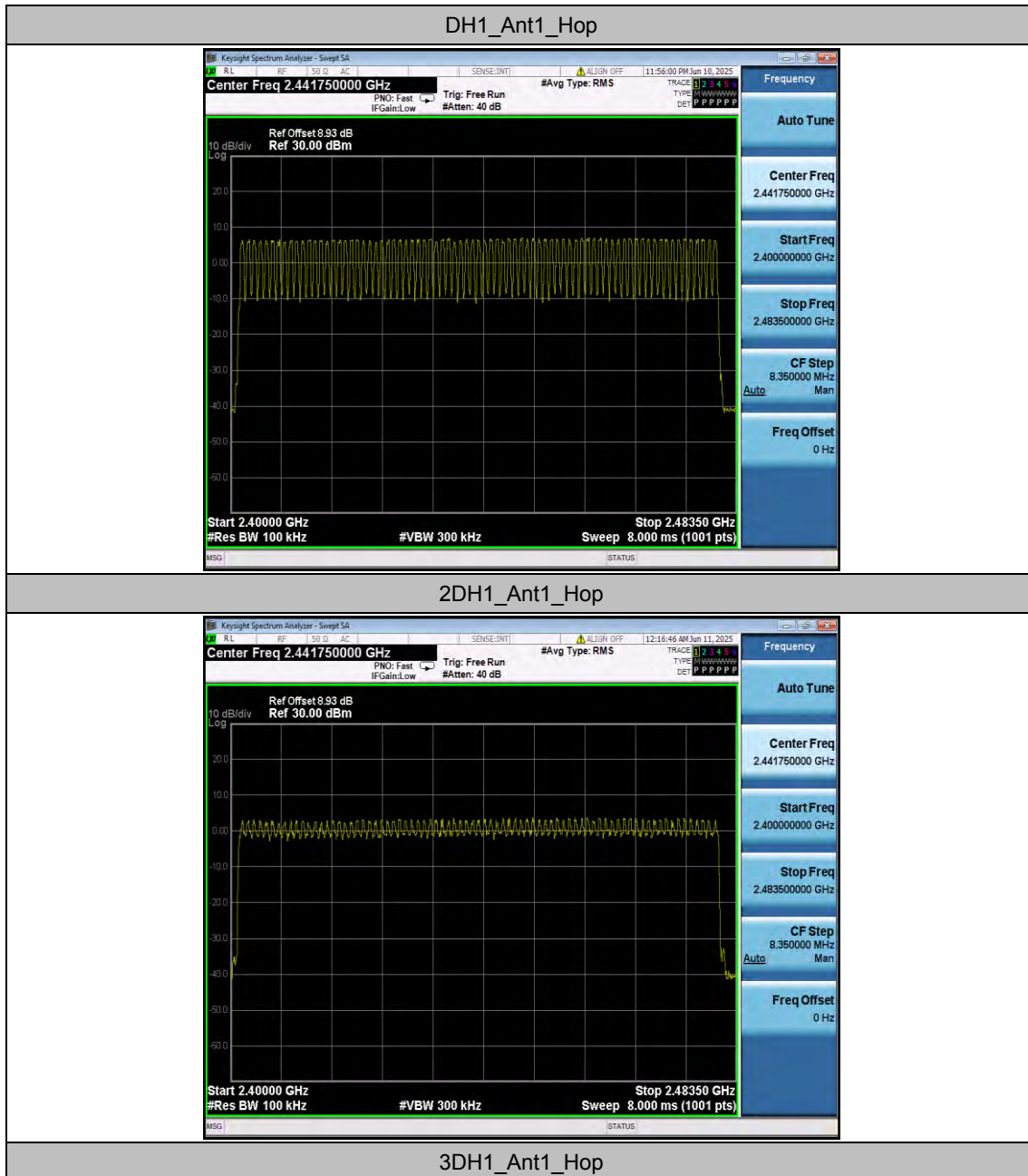


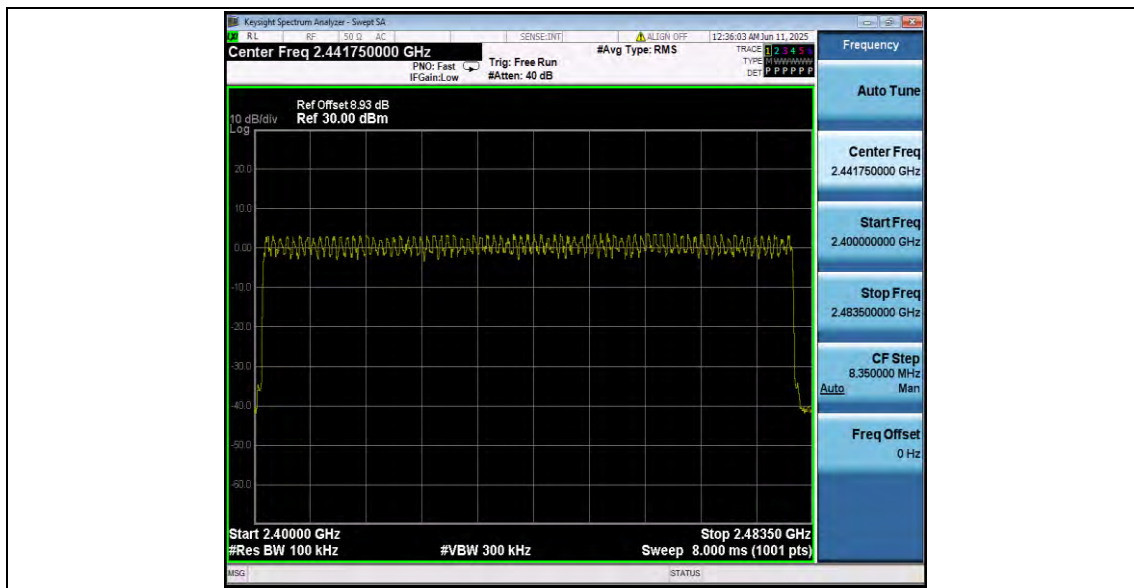
## Appendix A.6: Number of hopping channels

### Test Result

| TestMode | Antenna | Freq(MHz) | Result[Num] | Limit[Num] | Verdict |
|----------|---------|-----------|-------------|------------|---------|
| DH1      | Ant1    | Hop       | 79          | ≥15        | PASS    |
| 2DH1     | Ant1    | Hop       | 79          | ≥15        | PASS    |
| 3DH1     | Ant1    | Hop       | 79          | ≥15        | PASS    |

## Test Graphs





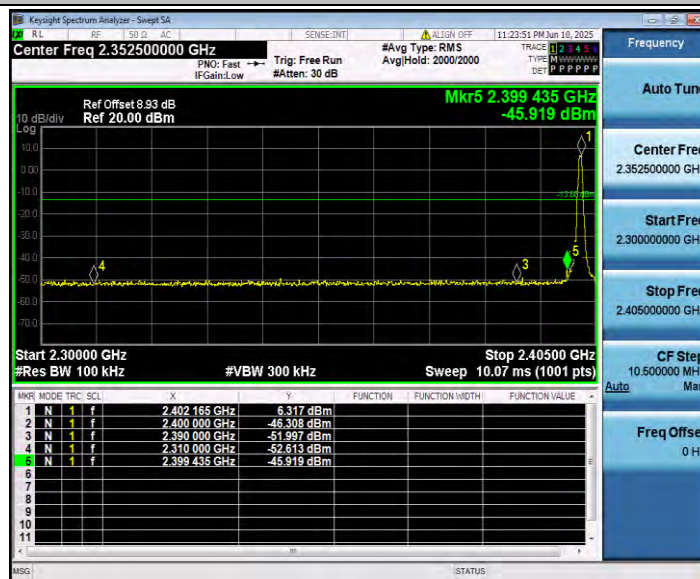
## Appendix A.7: Band edge measurements

### Test Result

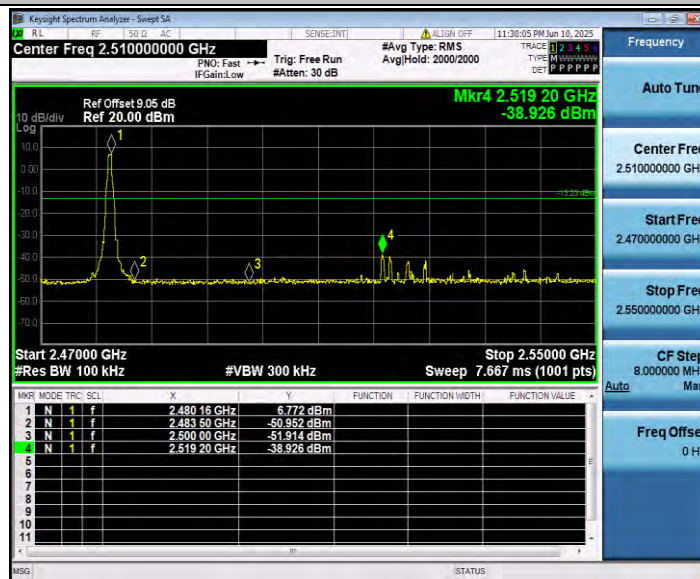
| TestMode | Antenna | ChName | Freq(MHz) | RefLevel [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|----------|---------|--------|-----------|----------------|--------------|---------------|---------|
| DH1      | Ant1    | Low    | 2402      | 6.32           | -45.92       | $\leq -13.68$ | PASS    |
|          |         | High   | 2480      | 6.77           | -38.93       | $\leq -13.23$ | PASS    |
|          |         | Low    | Hop_2402  | 5.72           | -49.13       | $\leq -14.28$ | PASS    |
|          |         | High   | Hop_2480  | 6.61           | -46.33       | $\leq -13.39$ | PASS    |
| 2DH1     | Ant1    | Low    | 2402      | 2.96           | -47.48       | $\leq -17.05$ | PASS    |
|          |         | High   | 2480      | 3.33           | -35.36       | $\leq -16.67$ | PASS    |
|          |         | Low    | Hop_2402  | 2.88           | -49.7        | $\leq -17.12$ | PASS    |
|          |         | High   | Hop_2480  | 3.14           | -46.65       | $\leq -16.87$ | PASS    |
| 3DH1     | Ant1    | Low    | 2402      | 2.99           | -46.8        | $\leq -17.01$ | PASS    |
|          |         | High   | 2480      | 3.40           | -48.14       | $\leq -16.6$  | PASS    |
|          |         | Low    | Hop_2402  | 2.87           | -48.93       | $\leq -17.13$ | PASS    |
|          |         | High   | Hop_2480  | 6.54           | -44.61       | $\leq -13.46$ | PASS    |

## Test Graphs

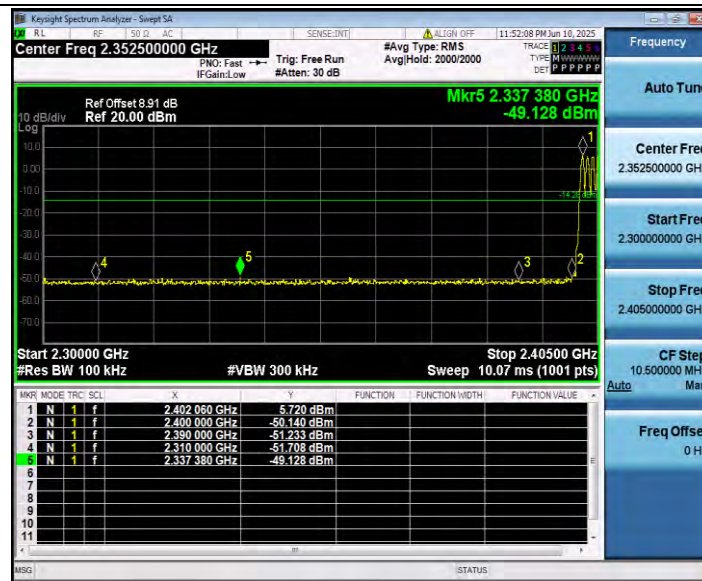
DH1\_Ant1\_Low\_2402



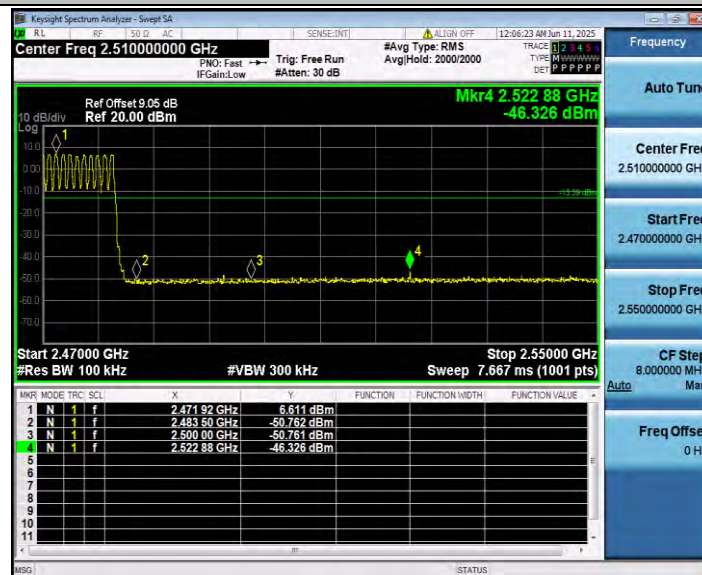
DH1\_Ant1\_High\_2480



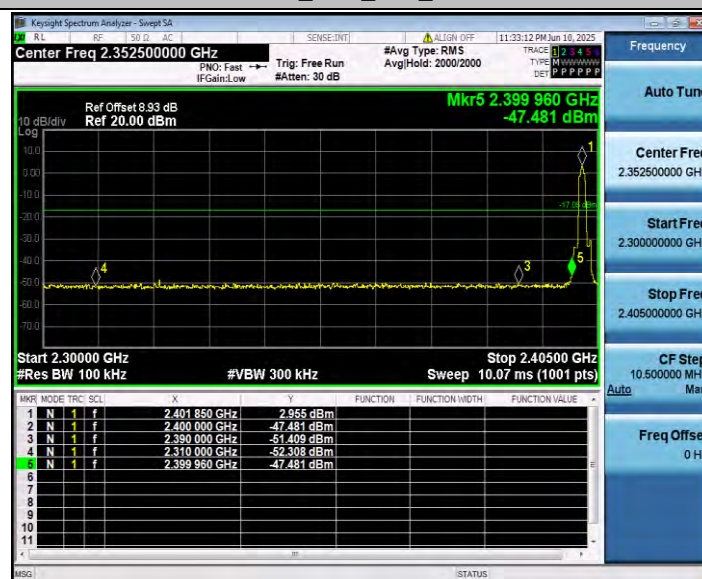
DH1\_Ant1\_Low\_Hop\_2402



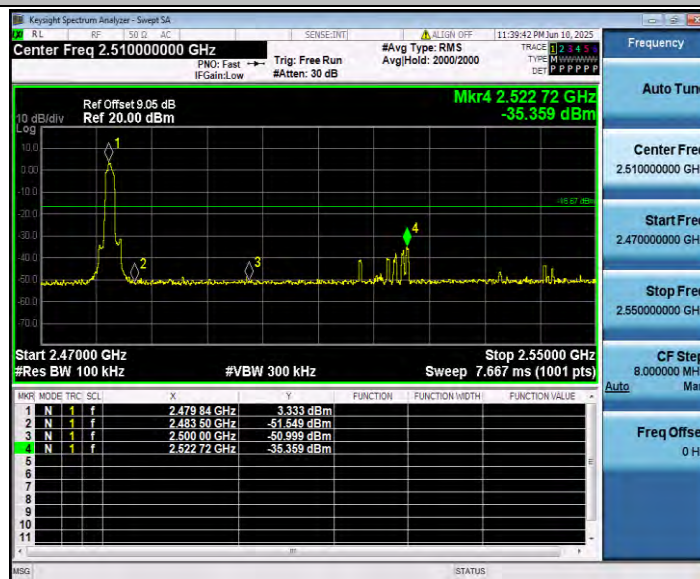
DH1\_Ant1\_High\_Hop\_2480



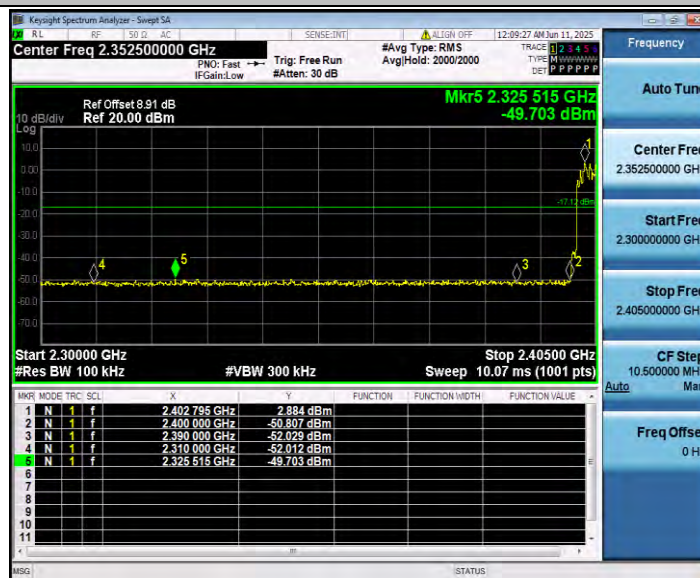
2DH1\_Ant1\_Low\_2402



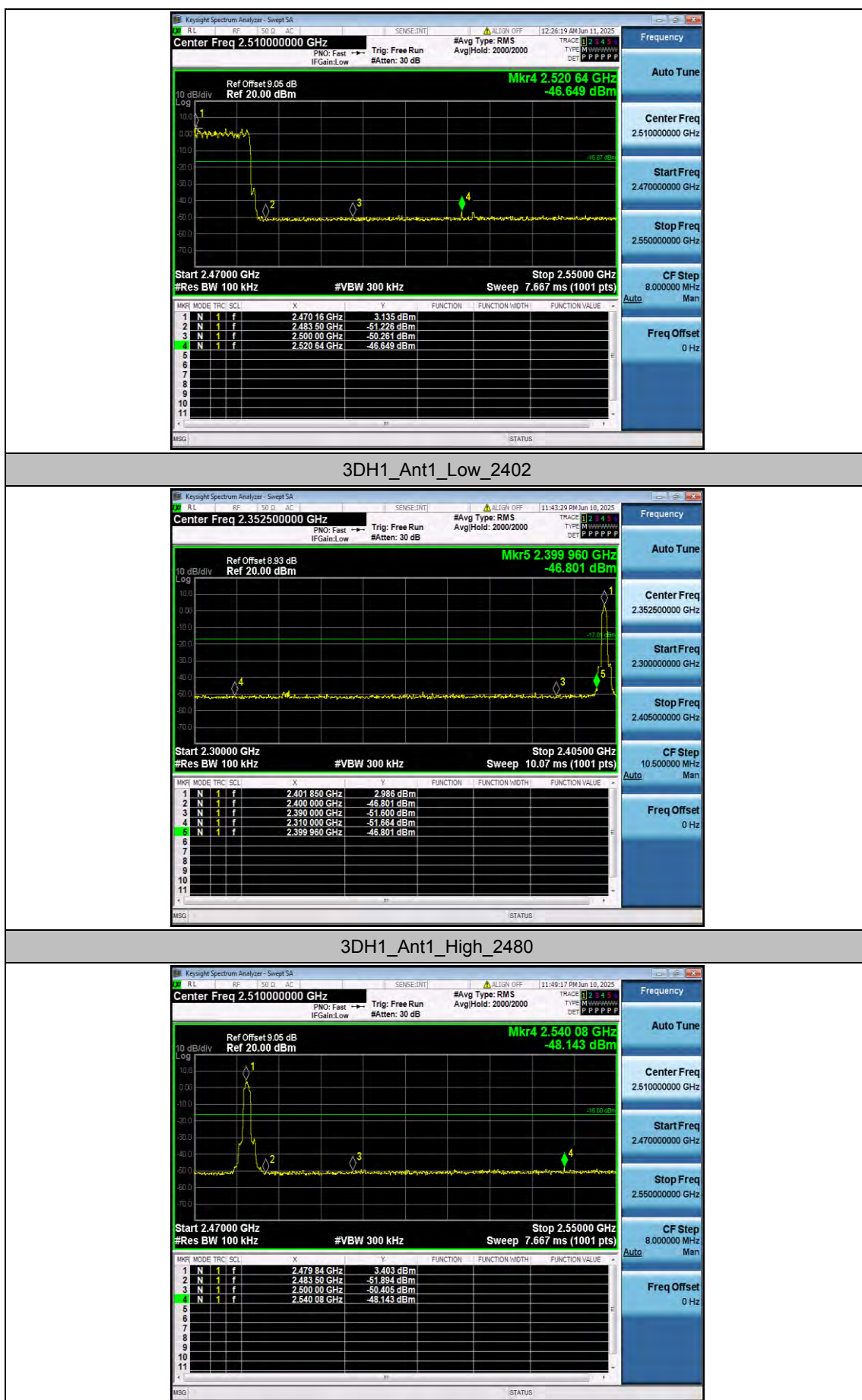
## 2DH1\_Ant1\_High\_2480



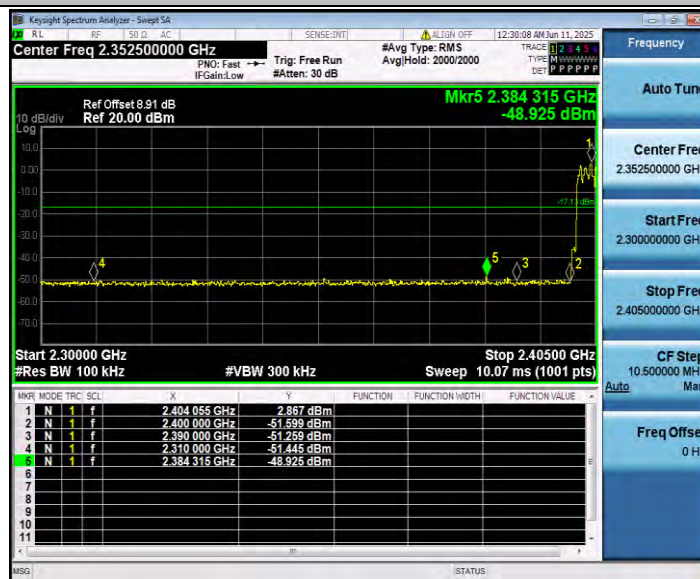
## 2DH1\_Ant1\_Low\_Hop\_2402



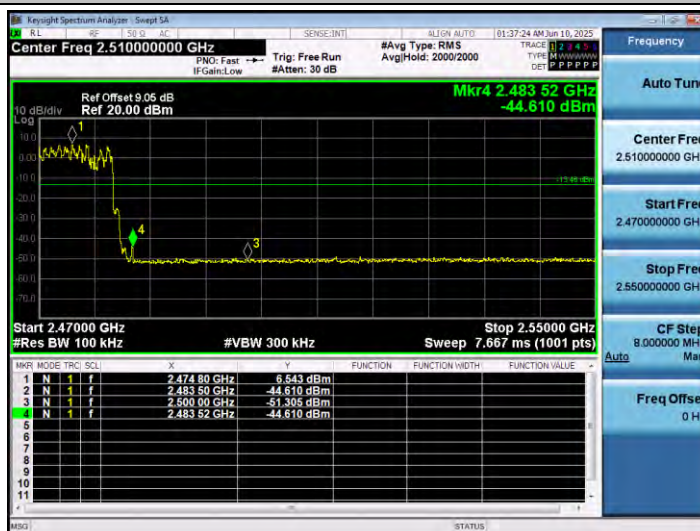
## 2DH1\_Ant1\_High\_Hop\_2480



## 3DH1\_Ant1\_Low\_Hop\_2402



## 3DH1\_Ant1\_High\_Hop\_2480

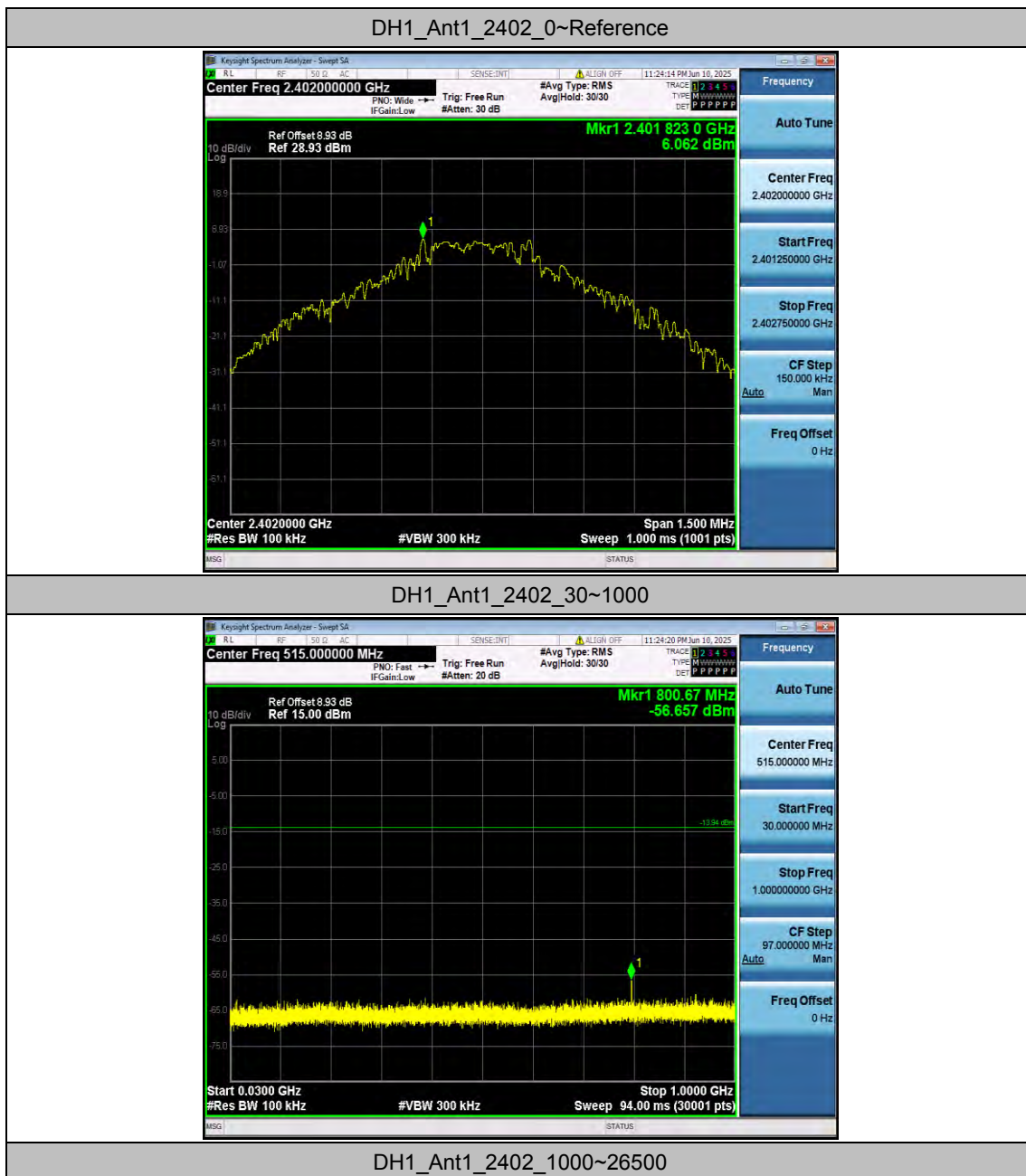


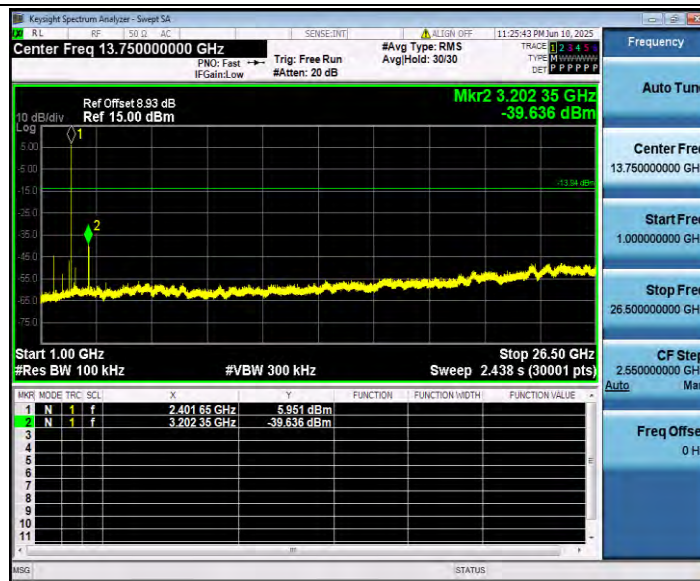
## Appendix A.8: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Freq(MHz) | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|-----------|-----------------|----------------|--------------|-------------|---------|
| DH1      | Ant1    | 2402      | Reference       | 6.06           | 6.06         | ---         | PASS    |
|          |         |           | 30~1000         | 6.06           | -56.66       | ≤-13.94     | PASS    |
|          |         |           | 1000~26500      | 6.06           | -39.64       | ≤-13.94     | PASS    |
|          |         | 2441      | Reference       | 6.53           | 6.53         | ---         | PASS    |
|          |         |           | 30~1000         | 6.53           | -57.85       | ≤-13.47     | PASS    |
|          |         |           | 1000~26500      | 6.53           | -39.36       | ≤-13.47     | PASS    |
|          |         | 2480      | Reference       | 6.43           | 6.43         | ---         | PASS    |
|          |         |           | 30~1000         | 6.43           | -55.56       | ≤-13.57     | PASS    |
|          |         |           | 1000~26500      | 6.43           | -38.75       | ≤-13.57     | PASS    |
| 2DH1     | Ant1    | 2402      | Reference       | 2.20           | 2.20         | ---         | PASS    |
|          |         |           | 30~1000         | 2.20           | -59.63       | ≤-17.8      | PASS    |
|          |         |           | 1000~26500      | 2.20           | -42.95       | ≤-17.8      | PASS    |
|          |         | 2441      | Reference       | 2.59           | 2.59         | ---         | PASS    |
|          |         |           | 30~1000         | 2.59           | -59.25       | ≤-17.41     | PASS    |
|          |         |           | 1000~26500      | 2.59           | -43.07       | ≤-17.41     | PASS    |
|          |         | 2480      | Reference       | 2.93           | 2.93         | ---         | PASS    |
|          |         |           | 30~1000         | 2.93           | -59.23       | ≤-17.07     | PASS    |
|          |         |           | 1000~26500      | 2.93           | -42.06       | ≤-17.07     | PASS    |
| 3DH1     | Ant1    | 2402      | Reference       | 2.66           | 2.66         | ---         | PASS    |
|          |         |           | 30~1000         | 2.66           | -58.24       | ≤-17.34     | PASS    |
|          |         |           | 1000~26500      | 2.66           | -43.12       | ≤-17.34     | PASS    |
|          |         | 2441      | Reference       | 2.57           | 2.57         | ---         | PASS    |
|          |         |           | 30~1000         | 2.57           | -60.18       | ≤-17.43     | PASS    |
|          |         |           | 1000~26500      | 2.57           | -42.84       | ≤-17.43     | PASS    |
|          |         | 2480      | Reference       | 3.28           | 3.28         | ---         | PASS    |
|          |         |           | 30~1000         | 3.28           | -60.49       | ≤-16.72     | PASS    |
|          |         |           | 1000~26500      | 3.28           | -43.07       | ≤-16.72     | PASS    |

## Test Graphs

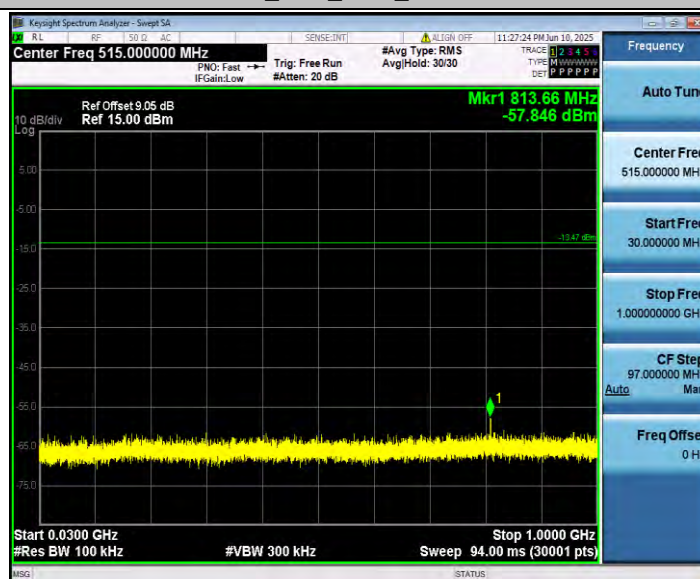




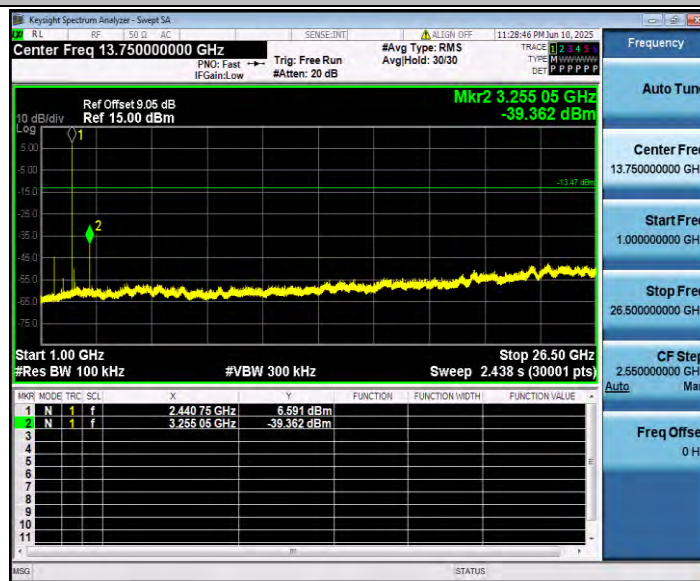
DH1\_Ant1\_2441\_0~Reference



DH1\_Ant1\_2441\_30~1000



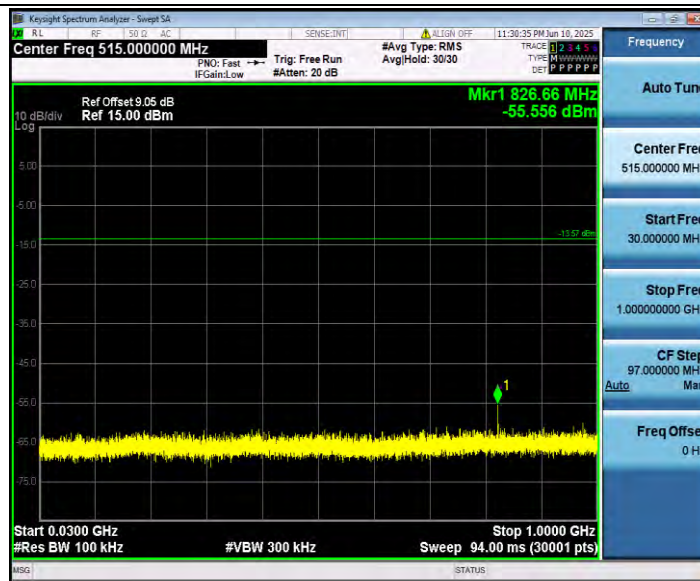
## DH1\_Ant1\_2441\_1000~26500



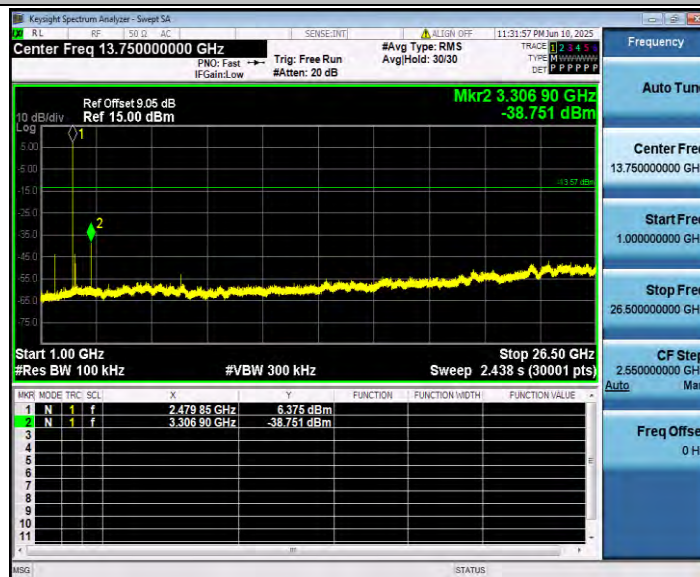
## DH1\_Ant1\_2480\_0~Reference



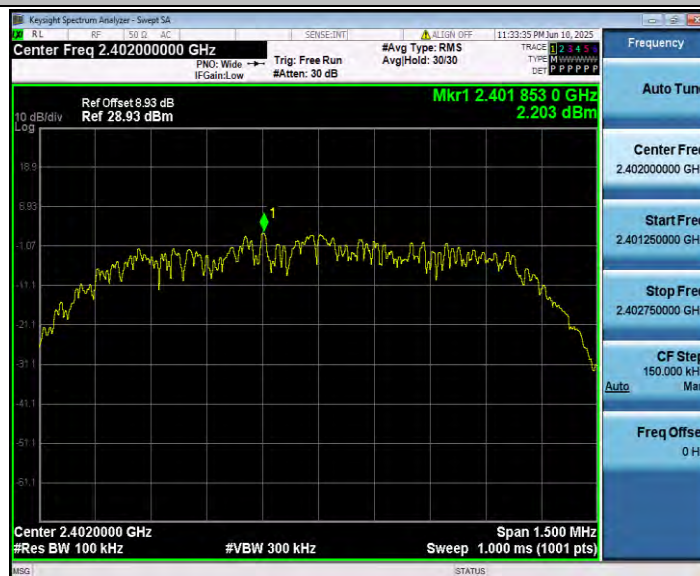
## DH1\_Ant1\_2480\_30~1000

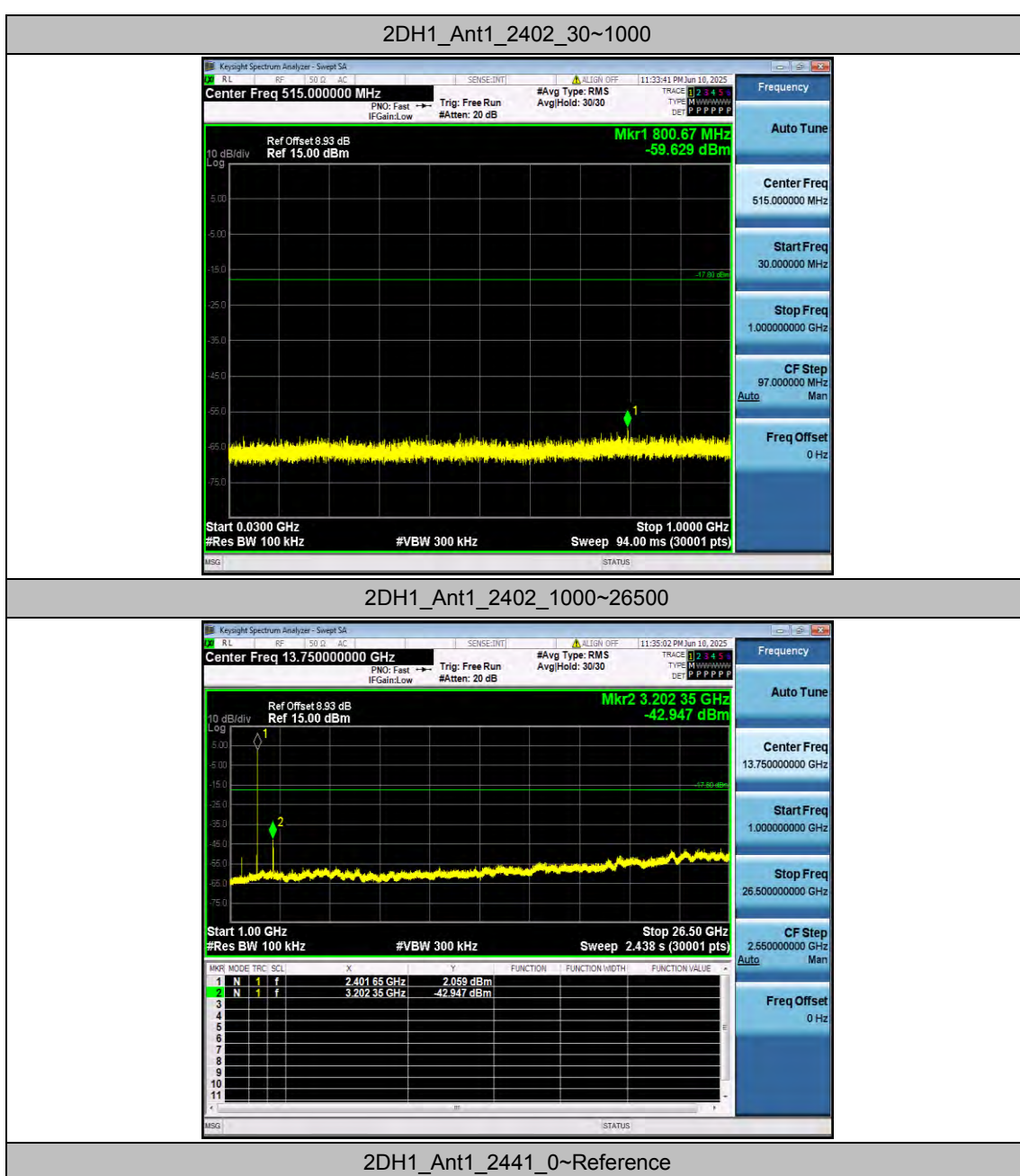


DH1\_Ant1\_2480\_1000~26500



2DH1\_Ant1\_2402\_0~Reference







2DH1\_Ant1\_2441\_30~1000



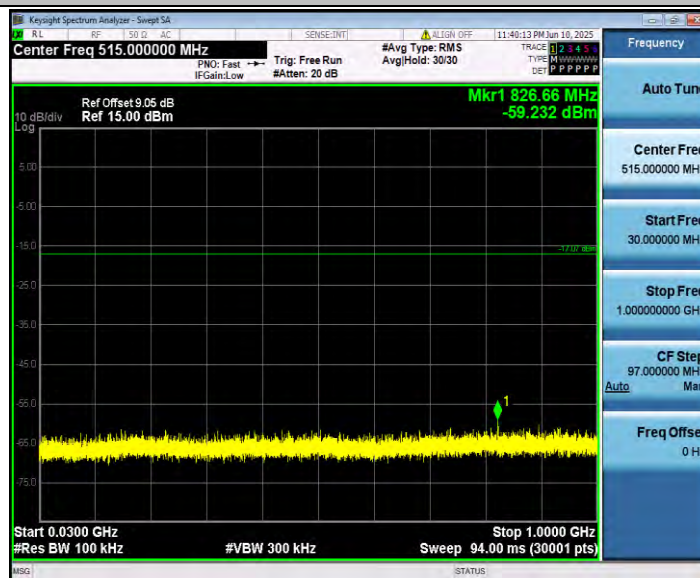
2DH1\_Ant1\_2441\_1000~26500



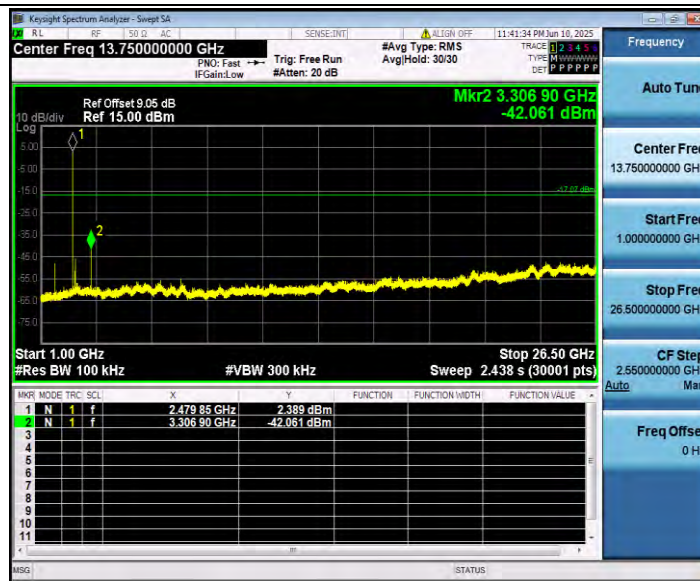
## 2DH1\_Ant1\_2480\_0~Reference



## 2DH1\_Ant1\_2480\_30~1000



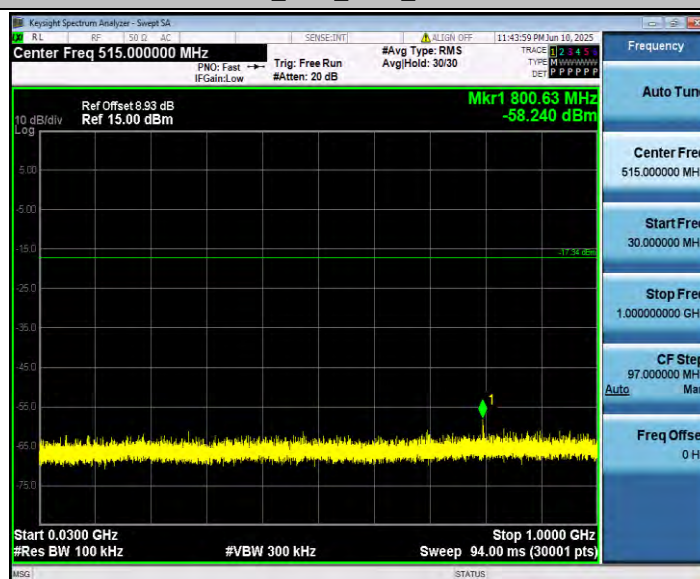
## 2DH1\_Ant1\_2480\_1000~26500



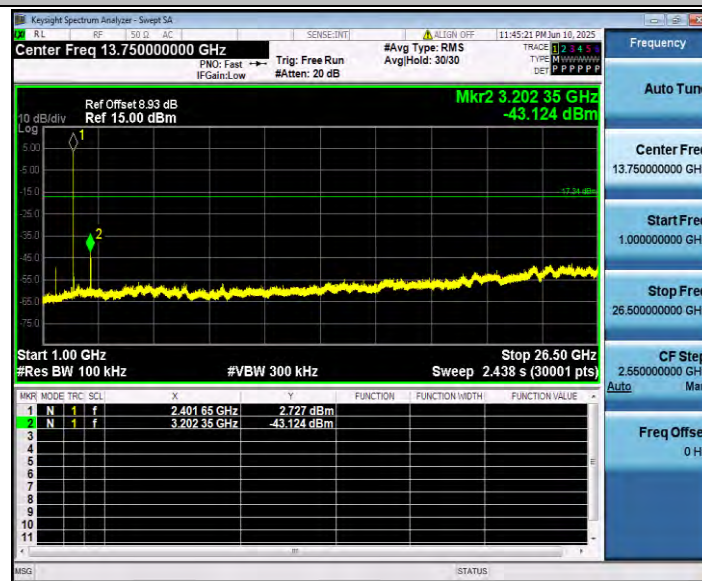
3DH1\_Ant1\_2402\_0~Reference



3DH1\_Ant1\_2402\_30~1000



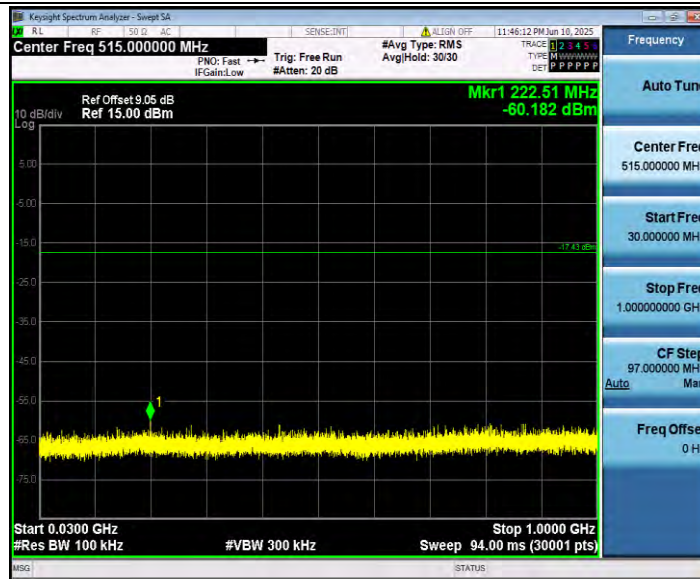
## 3DH1\_Ant1\_2402\_1000~26500



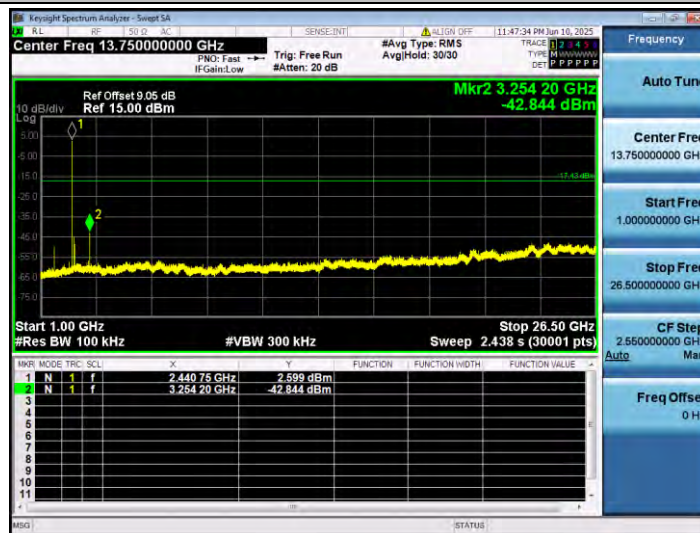
## 3DH1\_Ant1\_2441\_0~Reference



## 3DH1\_Ant1\_2441\_30~1000



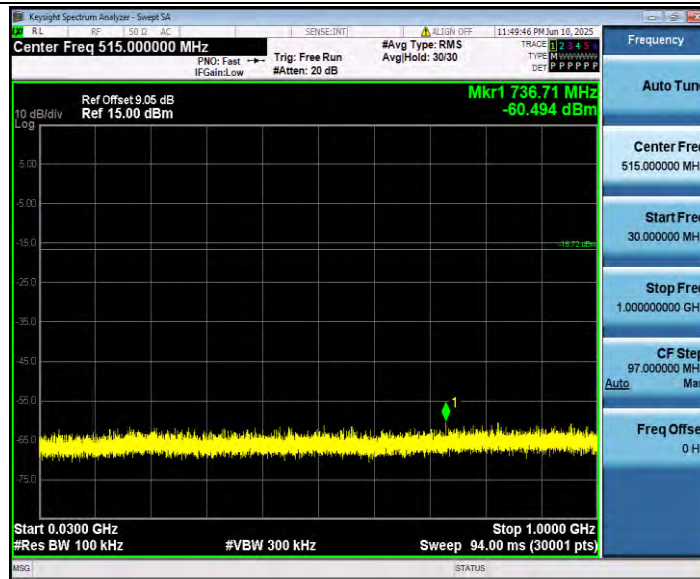
3DH1\_Ant1\_2441\_1000~26500



3DH1\_Ant1\_2480\_0~Reference



3DH1\_Ant1\_2480\_30~1000



3DH1\_Ant1\_2480\_1000~26500



## Appendix A.9: Emissions in Restricted Bands

### Test Result

| TestMode | Antenna | ChName | Freq(MHz ) | Detector | Freq [MHz] | Result [dBm] | Limit [dBm] | Result [dBuV/m] | Limit [dBuV/m] | Verdict |
|----------|---------|--------|------------|----------|------------|--------------|-------------|-----------------|----------------|---------|
| DH1      | Ant1    | Low    | 2402       | AV       | 2310.000   | -49.42       | ≤-41.20     | 45.78           | ≤54            | PASS    |
|          |         |        |            | AV       | 2385.155   | -48.93       | ≤-41.20     | 46.27           | ≤54            | PASS    |
|          |         |        |            | AV       | 2390.000   | -48.96       | ≤-41.20     | 46.24           | ≤54            | PASS    |
|          |         |        |            | Peak     | 2310.000   | -42.73       | ≤-21.20     | 52.47           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2317.745   | -39          | ≤-21.20     | 56.20           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2390.000   | -41.07       | ≤-21.20     | 54.13           | ≤74            | PASS    |
|          |         | High   | 2480       | AV       | 2483.500   | -47.72       | ≤-41.20     | 47.48           | ≤54            | PASS    |
|          |         |        |            | AV       | 2483.520   | -47.72       | ≤-41.20     | 47.48           | ≤54            | PASS    |
|          |         |        |            | AV       | 2500.000   | -48.77       | ≤-41.20     | 46.43           | ≤54            | PASS    |
|          |         |        |            | Peak     | 2483.500   | -40.43       | ≤-21.20     | 54.77           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2488.800   | -38.82       | ≤-21.20     | 56.38           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2500.000   | -41.98       | ≤-21.20     | 53.22           | ≤74            | PASS    |
| 2DH1     | Ant1    | Low    | 2402       | AV       | 2310.000   | -49.47       | ≤-41.20     | 45.73           | ≤54            | PASS    |
|          |         |        |            | AV       | 2380.850   | -48.9        | ≤-41.20     | 46.30           | ≤54            | PASS    |
|          |         |        |            | AV       | 2390.000   | -49.13       | ≤-41.20     | 46.07           | ≤54            | PASS    |
|          |         |        |            | Peak     | 2310.000   | -41.91       | ≤-21.20     | 53.29           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2325.830   | -39.08       | ≤-21.20     | 56.12           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2390.000   | -41.2        | ≤-21.20     | 54.00           | ≤74            | PASS    |
|          |         | High   | 2480       | AV       | 2483.500   | -47.96       | ≤-41.20     | 47.24           | ≤54            | PASS    |
|          |         |        |            | AV       | 2483.520   | -47.96       | ≤-41.20     | 47.24           | ≤54            | PASS    |
|          |         |        |            | AV       | 2500.000   | -48.63       | ≤-41.20     | 46.57           | ≤54            | PASS    |
|          |         |        |            | Peak     | 2483.500   | -40.73       | ≤-21.20     | 54.47           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2493.920   | -38.64       | ≤-21.20     | 56.56           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2500.000   | -41.69       | ≤-21.20     | 53.51           | ≤74            | PASS    |
| 3DH1     | Ant1    | Low    | 2402       | AV       | 2310.000   | -49.41       | ≤-41.20     | 45.79           | ≤54            | PASS    |
|          |         |        |            | AV       | 2386.520   | -48.86       | ≤-41.20     | 46.34           | ≤54            | PASS    |
|          |         |        |            | AV       | 2390.000   | -49.12       | ≤-41.20     | 46.08           | ≤54            | PASS    |
|          |         |        |            | Peak     | 2310.000   | -40.06       | ≤-21.20     | 55.14           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2350.610   | -38.96       | ≤-21.20     | 56.24           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2390.000   | -41.42       | ≤-21.20     | 53.78           | ≤74            | PASS    |
|          |         | High   | 2480       | AV       | 2483.500   | -48.07       | ≤-41.20     | 47.13           | ≤54            | PASS    |
|          |         |        |            | AV       | 2483.520   | -48.07       | ≤-41.20     | 47.13           | ≤54            | PASS    |
|          |         |        |            | AV       | 2500.000   | -48.68       | ≤-41.20     | 46.52           | ≤54            | PASS    |
|          |         |        |            | Peak     | 2483.500   | -40.19       | ≤-21.20     | 55.01           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2493.520   | -38.81       | ≤-21.20     | 56.39           | ≤74            | PASS    |

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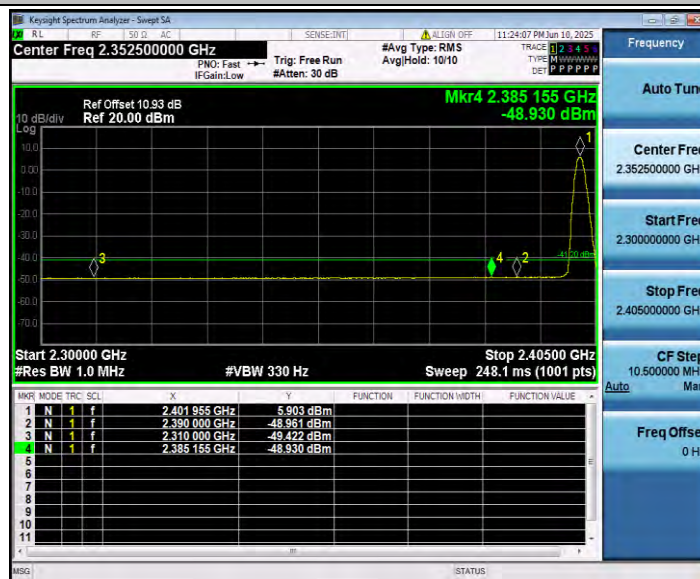
|  |  |  |  |      |          |        |         |       |     |      |
|--|--|--|--|------|----------|--------|---------|-------|-----|------|
|  |  |  |  | Peak | 2500.000 | -39.77 | ≤-21.20 | 55.43 | ≤74 | PASS |
|--|--|--|--|------|----------|--------|---------|-------|-----|------|

## Note:

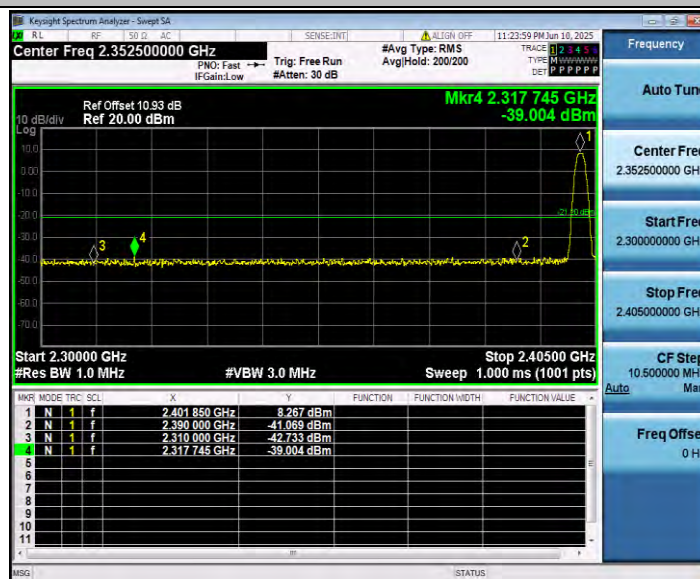
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

## Test Graphs

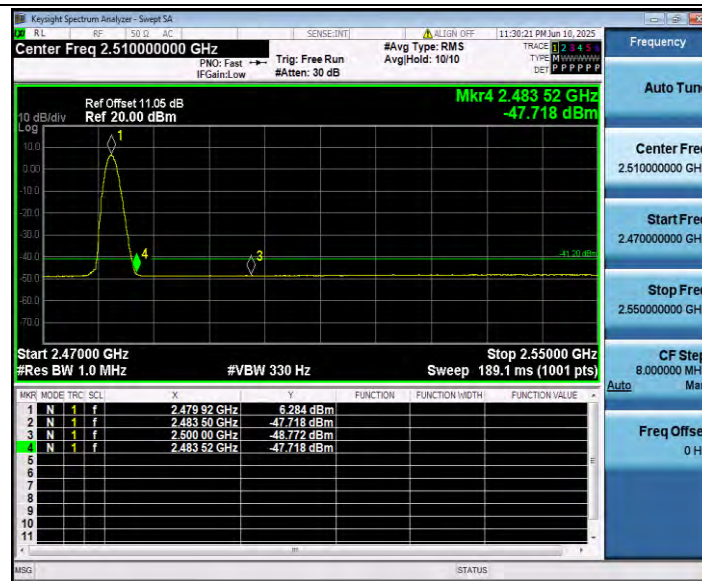
DH1\_Ant1\_Low\_2402\_AV



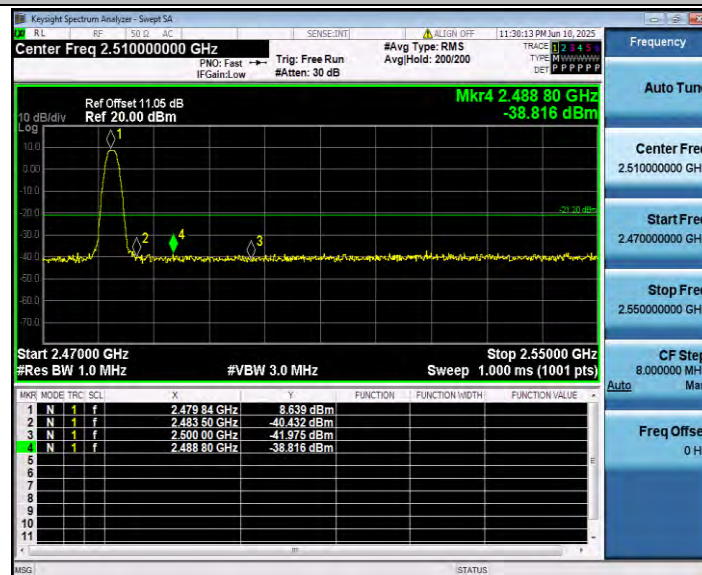
DH1\_Ant1\_Low\_2402\_Peak



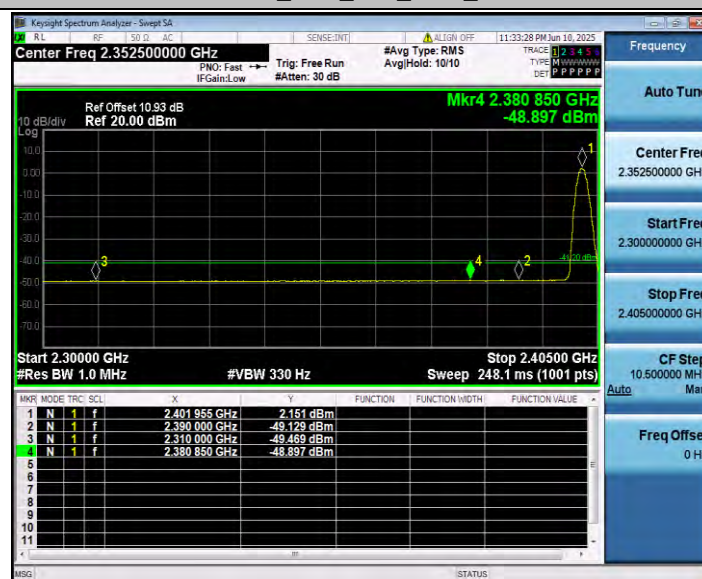
DH1\_Ant1\_High\_2480\_AV



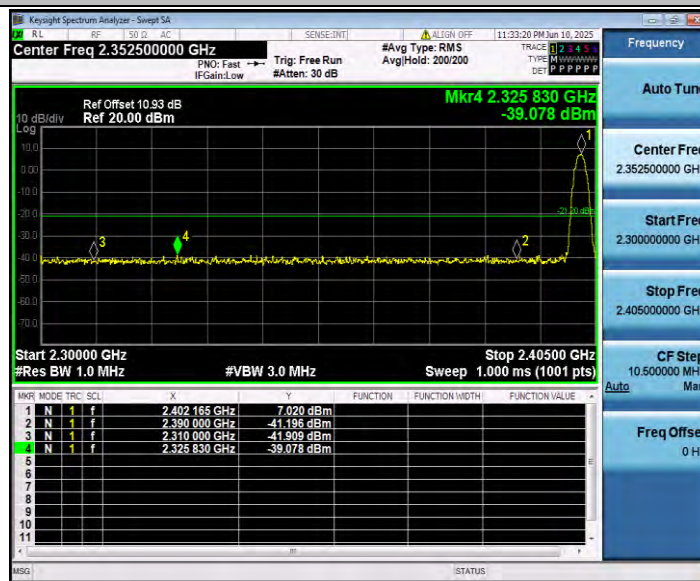
DH1\_Ant1\_High\_2480\_Peak



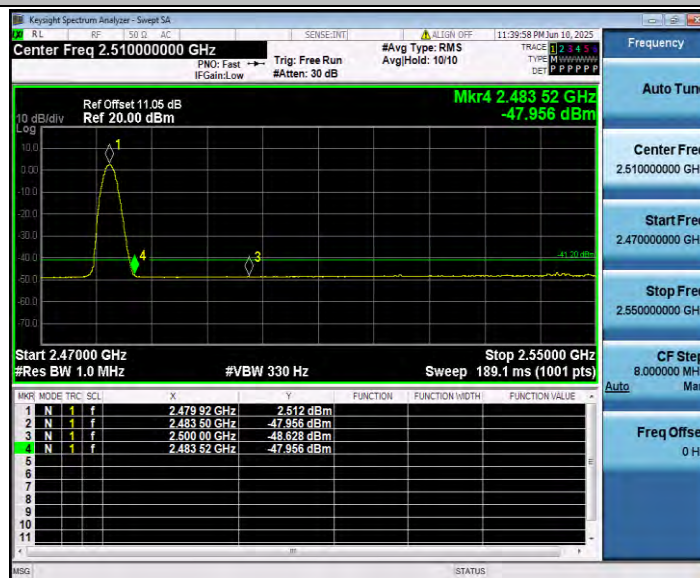
2DH1\_Ant1\_Low\_2402\_AV



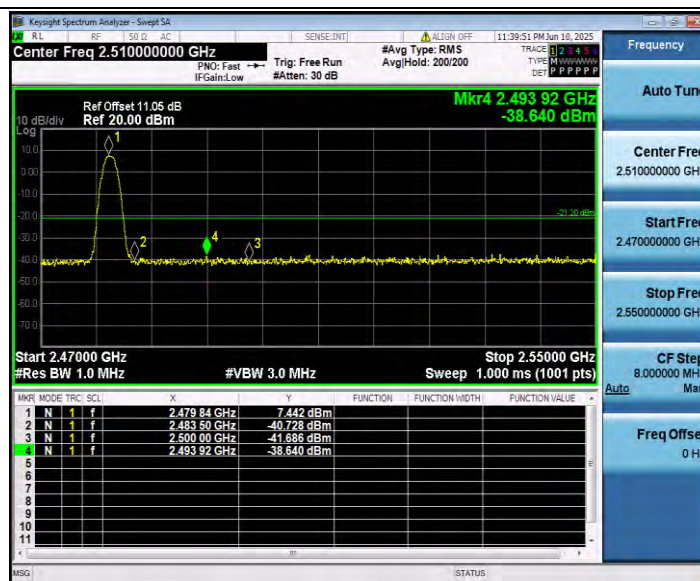
## 2DH1\_Ant1\_Low\_2402\_Peak



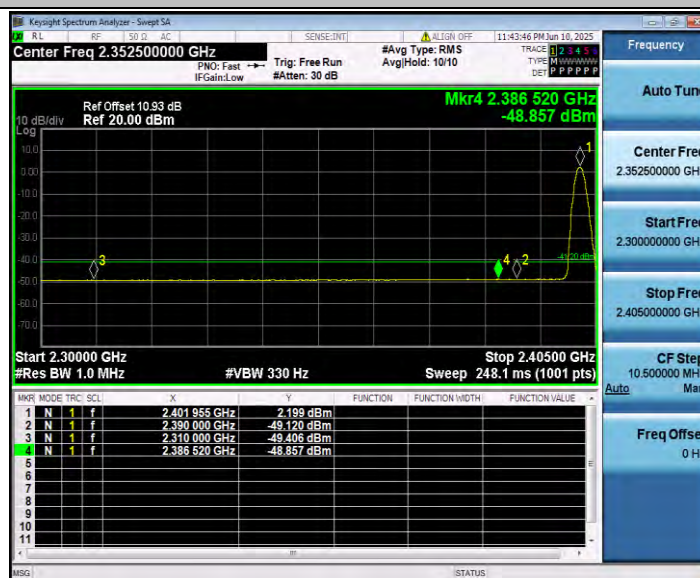
## 2DH1\_Ant1\_High\_2480\_AV



## 2DH1\_Ant1\_High\_2480\_Peak



3DH1\_Ant1\_Low\_2402\_AV



3DH1\_Ant1\_Low\_2402\_Peak

