



## Appendix A

### RF Test Data for BT V4.1 (DSS) (Conducted Measurement)

Product Name: TABLET PC

Test Model: BELLATRIX

#### Environmental Conditions

|                    |                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------|
| Temperature:       | 23.5℃                                                                                           |
| Relative Humidity: | 52.2%                                                                                           |
| ATM Pressure:      | 100.0 kPa                                                                                       |
| Test Engineer:     | <br>Monkey Li |
| Supervised by:     | <br>Li Huan |



## A.1 20dB Emission Bandwidth

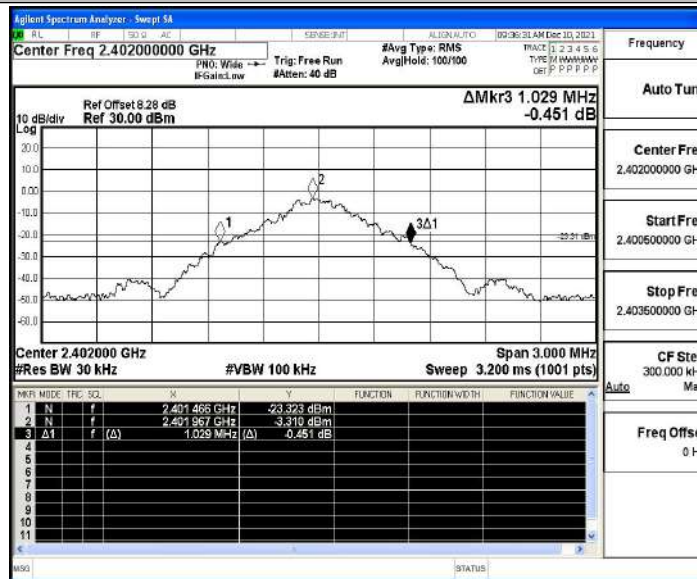
### Test Result

| TestMode | Antenna | Channel | 20db EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|---------------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402    | 1.029         | 2401.466 | 2402.495 | ---        | PASS    |
|          |         | 2441    | 1.032         | 2440.466 | 2441.498 | ---        | PASS    |
|          |         | 2480    | 1.029         | 2479.463 | 2480.492 | ---        | PASS    |
| 2DH5     | Ant1    | 2402    | 1.332         | 2401.325 | 2402.657 | ---        | PASS    |
|          |         | 2441    | 1.344         | 2440.322 | 2441.666 | ---        | PASS    |
|          |         | 2480    | 1.290         | 2479.352 | 2480.642 | ---        | PASS    |
| 3DH5     | Ant1    | 2402    | 1.305         | 2401.337 | 2402.642 | ---        | PASS    |
|          |         | 2441    | 1.323         | 2440.331 | 2441.654 | ---        | PASS    |
|          |         | 2480    | 1.314         | 2479.337 | 2480.651 | ---        | PASS    |

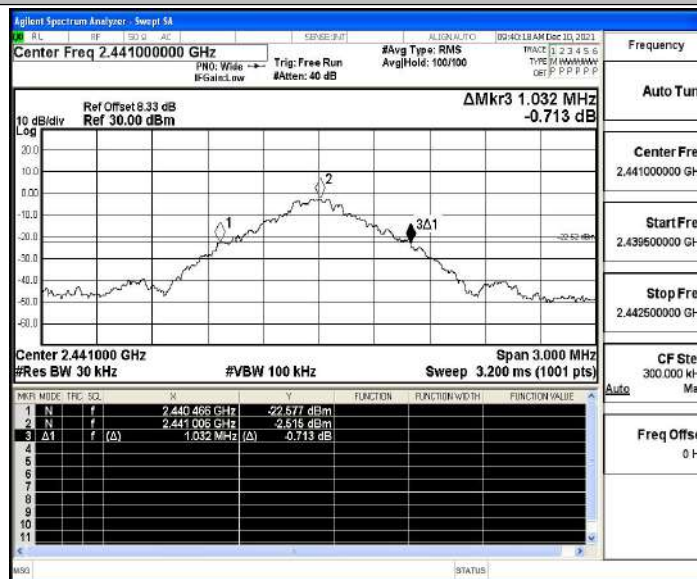


## Test Graphs

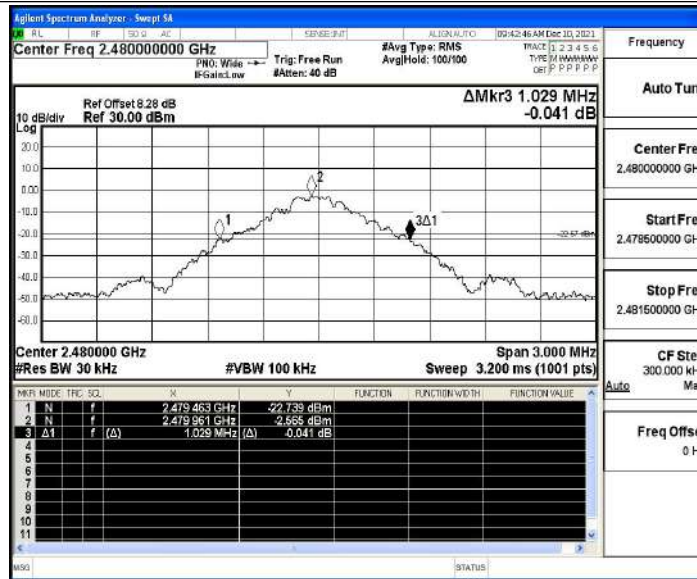
DH5\_Ant1\_2402



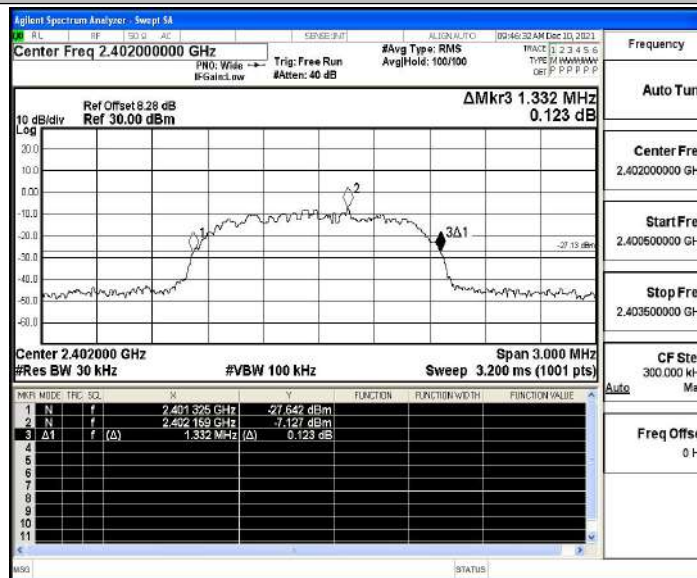
DH5\_Ant1\_2441



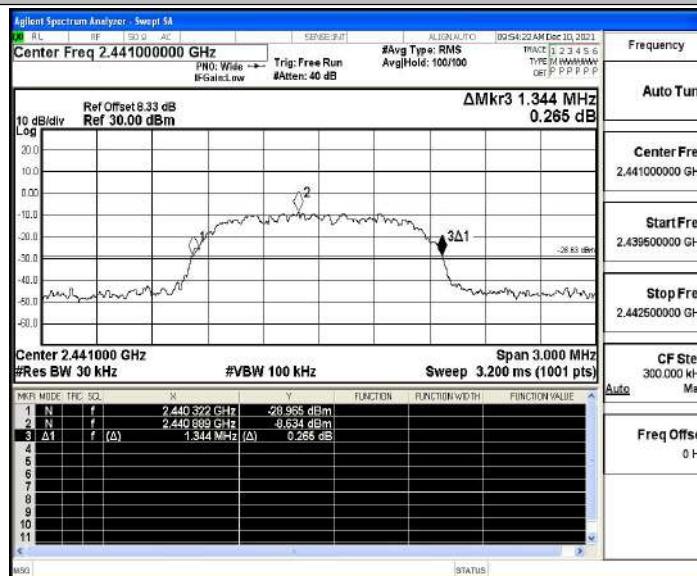
DH5\_Ant1\_2480



2DH5\_Ant1\_2402

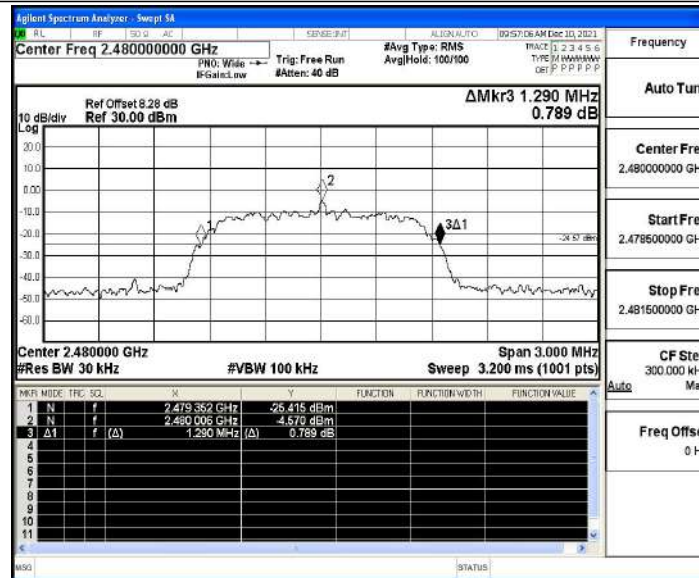


2DH5\_Ant1\_2441

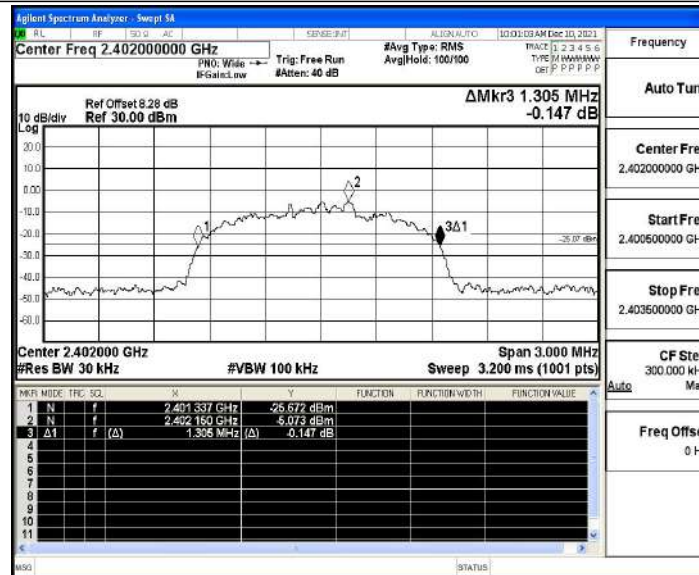




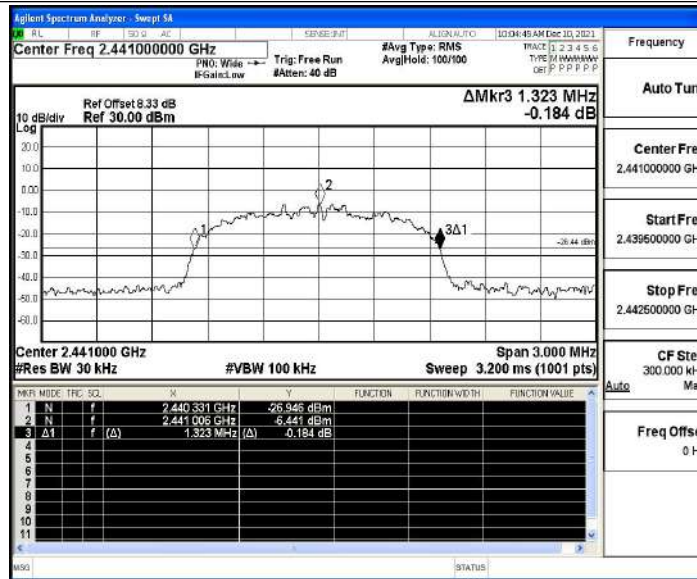
## 2DH5\_Ant1\_2480



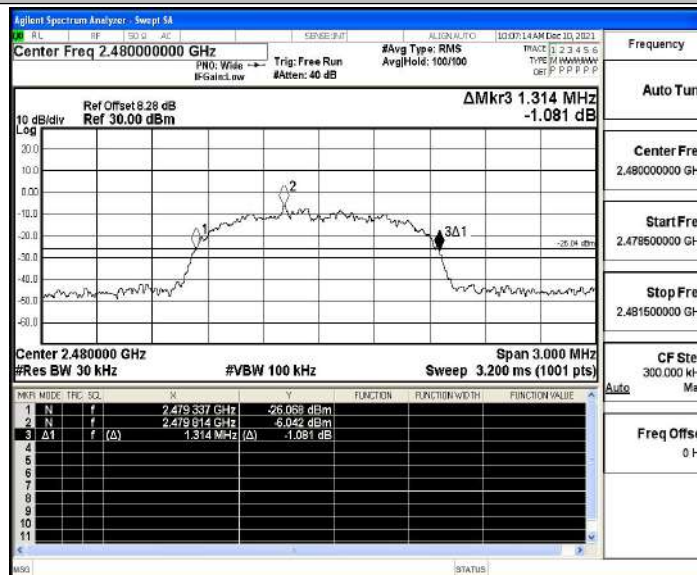
## 3DH5\_Ant1\_2402



## 3DH5\_Ant1\_2441



3DH5\_Ant1\_2480





## A.2 Maximum peak conducted output power

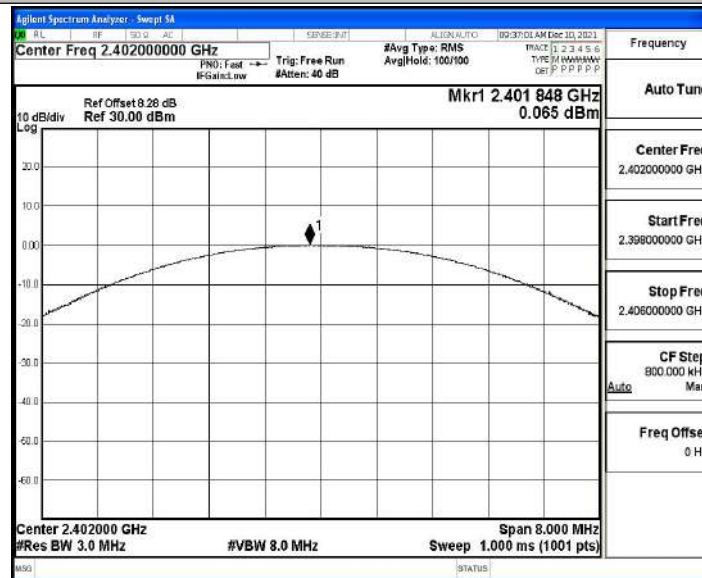
### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant1    | 2402    | 0.07        | ≤20.97     | PASS    |
|          |         | 2441    | 0.49        | ≤20.97     | PASS    |
|          |         | 2480    | 0.57        | ≤20.97     | PASS    |
| 2DH5     | Ant1    | 2402    | -0.33       | ≤20.97     | PASS    |
|          |         | 2441    | 0.21        | ≤20.97     | PASS    |
|          |         | 2480    | 0.12        | ≤20.97     | PASS    |
| 3DH5     | Ant1    | 2402    | -0.28       | ≤20.97     | PASS    |
|          |         | 2441    | 0.22        | ≤20.97     | PASS    |
|          |         | 2480    | 0.29        | ≤20.97     | PASS    |

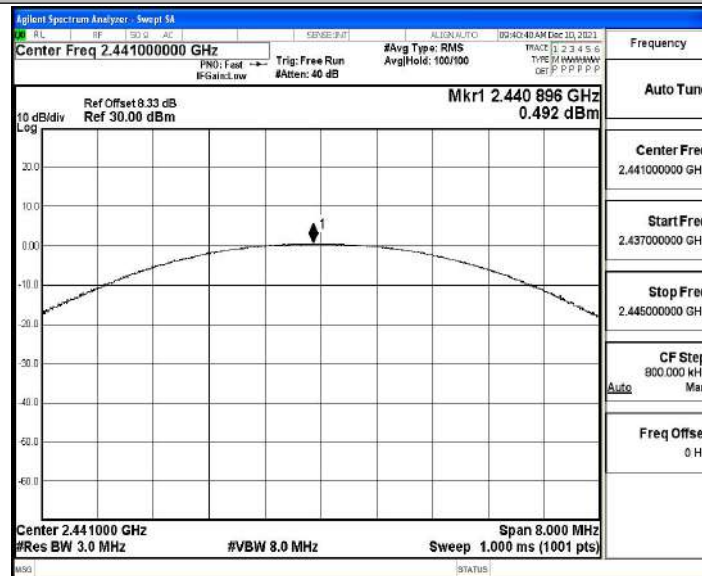


## Test Graphs

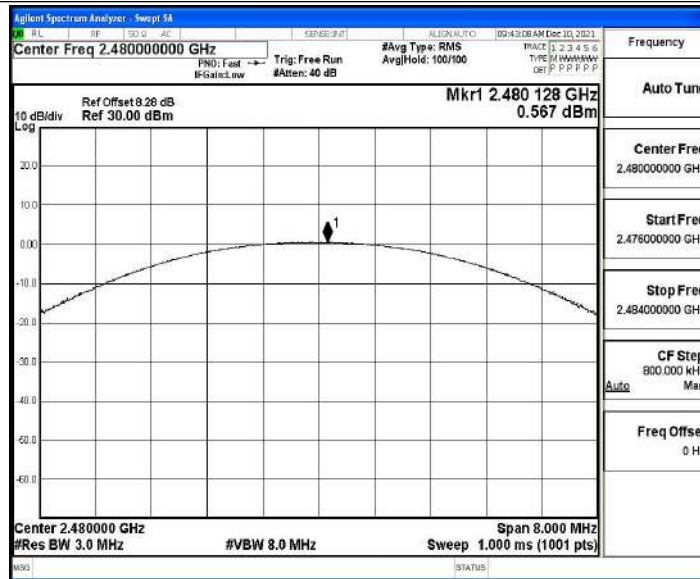
DH5\_Ant1\_2402



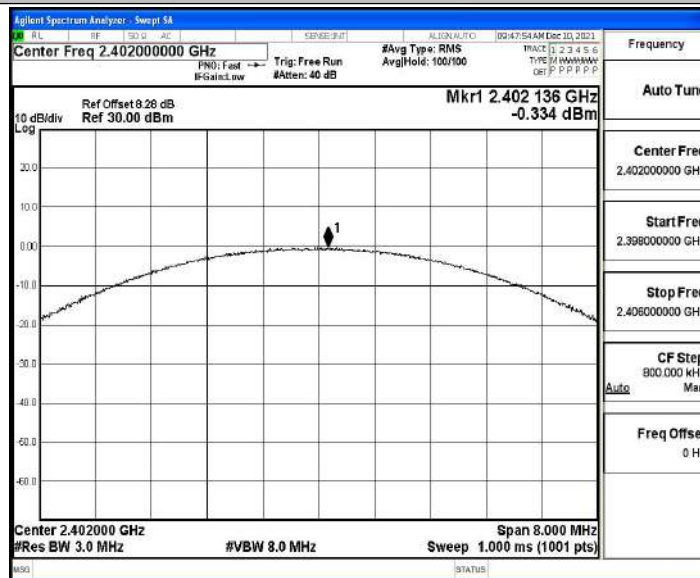
DH5\_Ant1\_2441



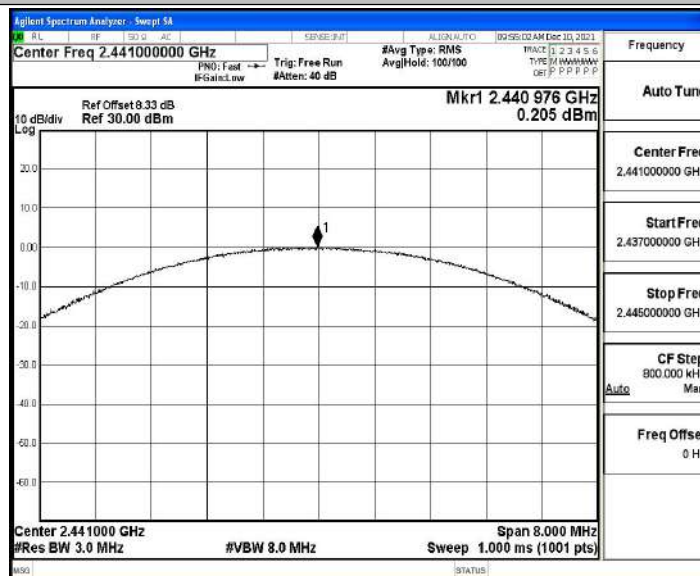
DH5\_Ant1\_2480



2DH5\_Ant1\_2402

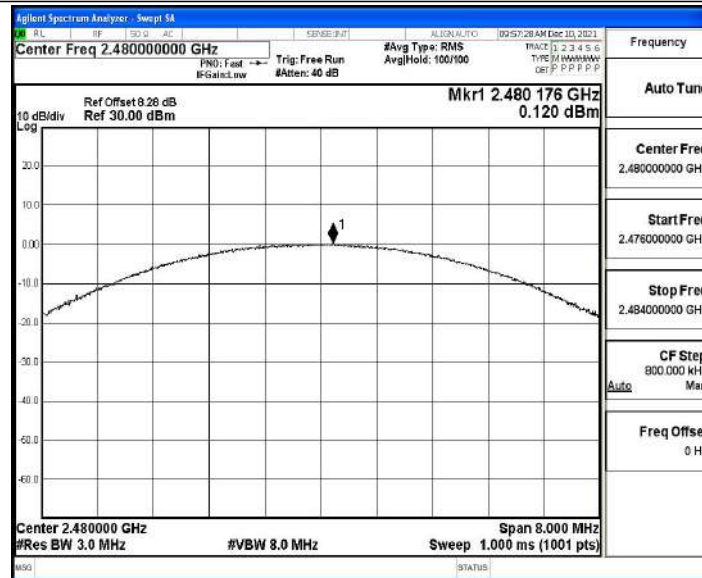


2DH5\_Ant1\_2441

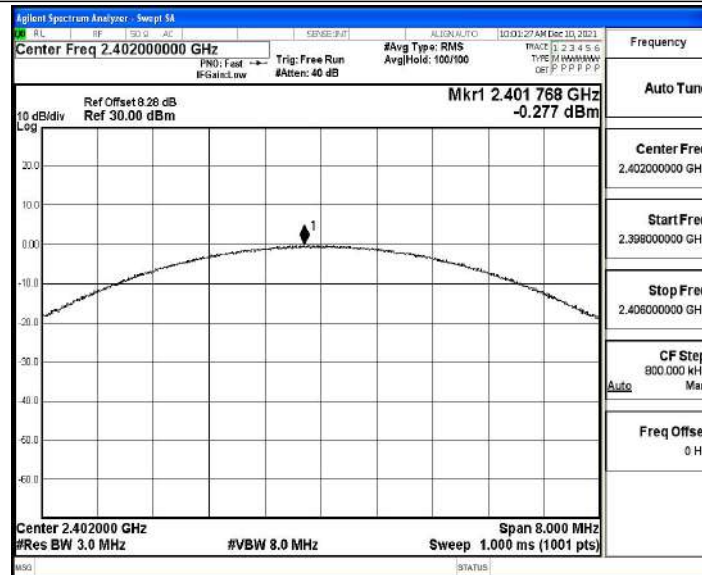




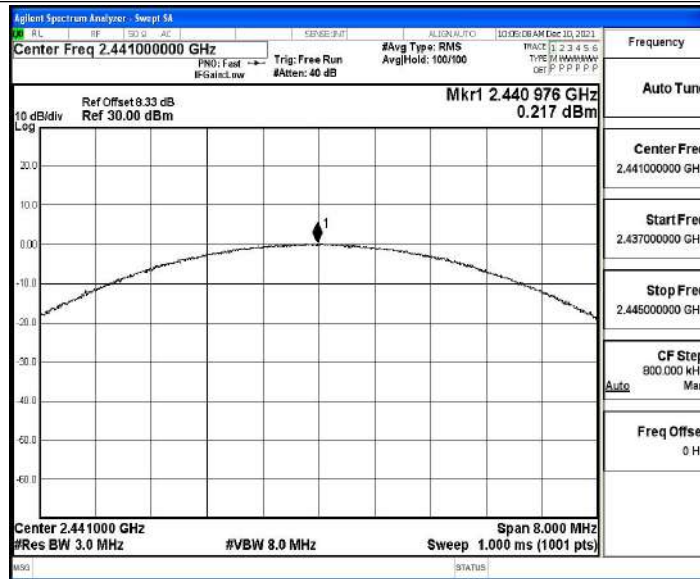
## 2DH5\_Ant1\_2480



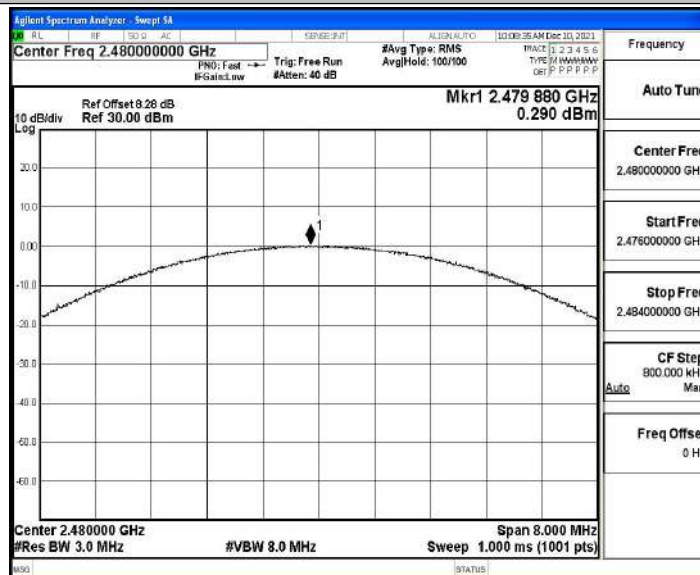
## 3DH5\_Ant1\_2402



## 3DH5\_Ant1\_2441



3DH5\_Ant1\_2480





## A.3 Carrier frequency separation

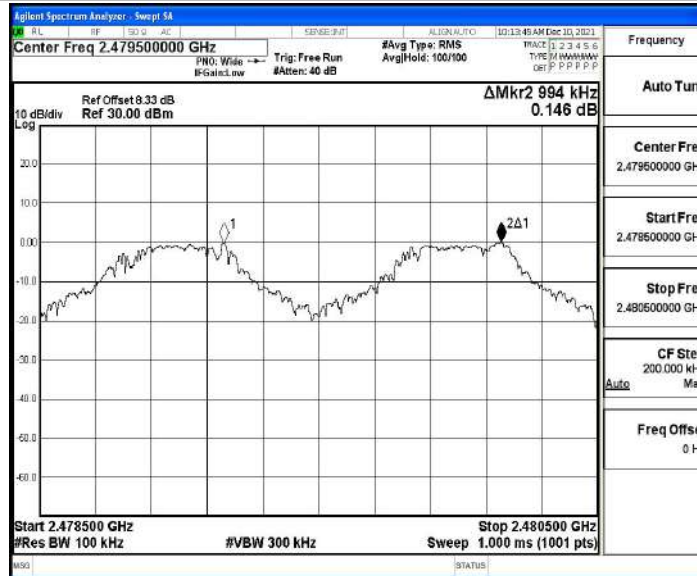
### Test Result

| TestMode | Antenna | Channel | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|---------|-------------|--------------|---------|
| DH5      | Ant1    | Hop     | 0.994       | $\geq 0.688$ | PASS    |
| 2DH5     | Ant1    | Hop     | 1.032       | $\geq 0.896$ | PASS    |
| 3DH5     | Ant1    | Hop     | 1.114       | $\geq 0.882$ | PASS    |

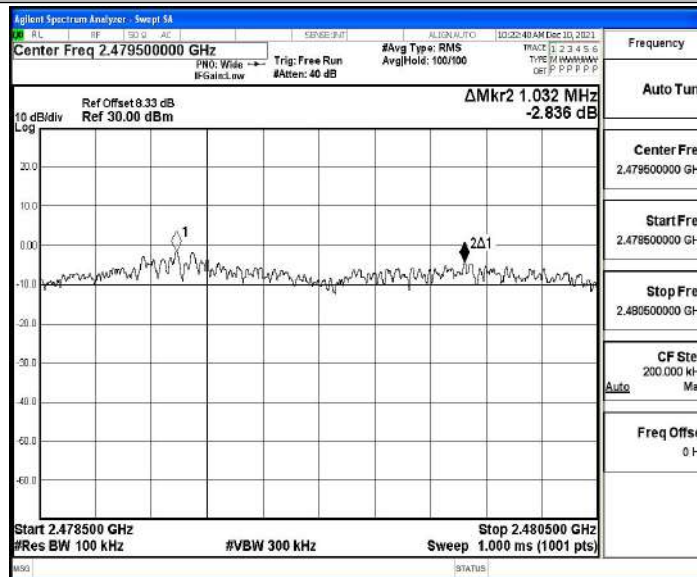


## Test Graphs

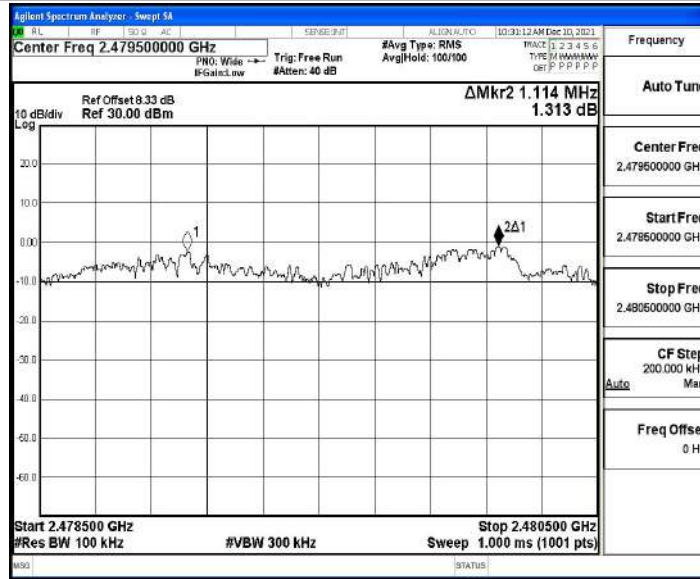
DH5\_Ant1\_Hop



2DH5\_Ant1\_Hop



3DH5\_Ant1\_Hop





## A.4 Time of occupancy

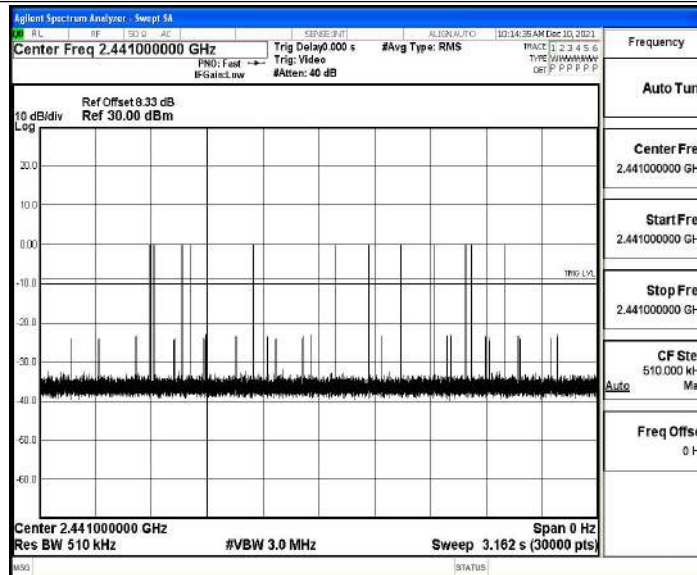
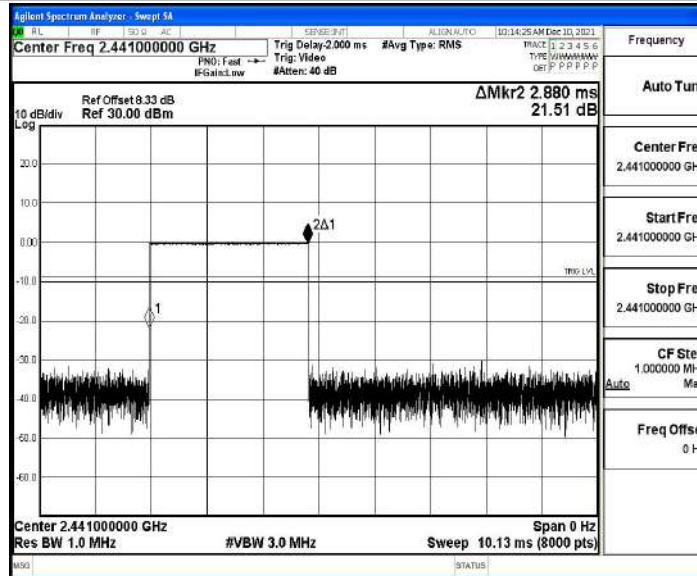
### Test Result

| TestMode | Antenna | Channel | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|---------|--------------------|--------------------|-----------|----------|---------|
| DH5      | Ant1    | Hop     | 2.88               | 130                | 0.374     | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop     | 2.88               | 80                 | 0.231     | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop     | 2.89               | 120                | 0.346     | ≤0.4     | PASS    |

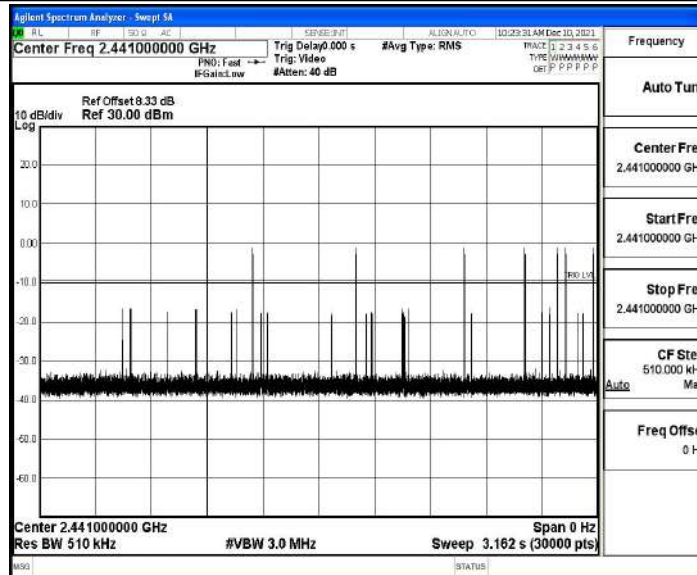
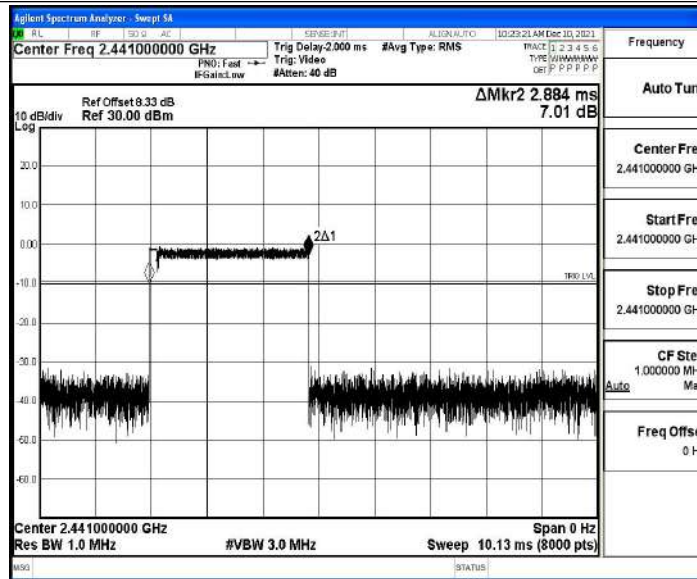


## Test Graphs

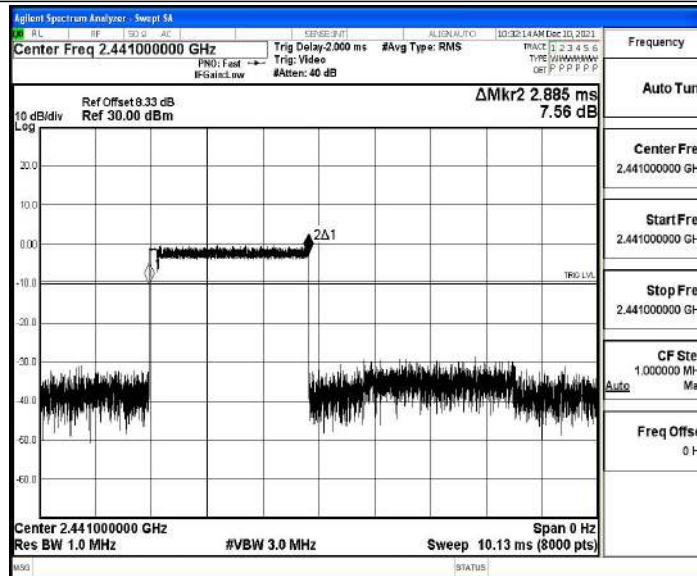
DH5\_Ant1\_Hop

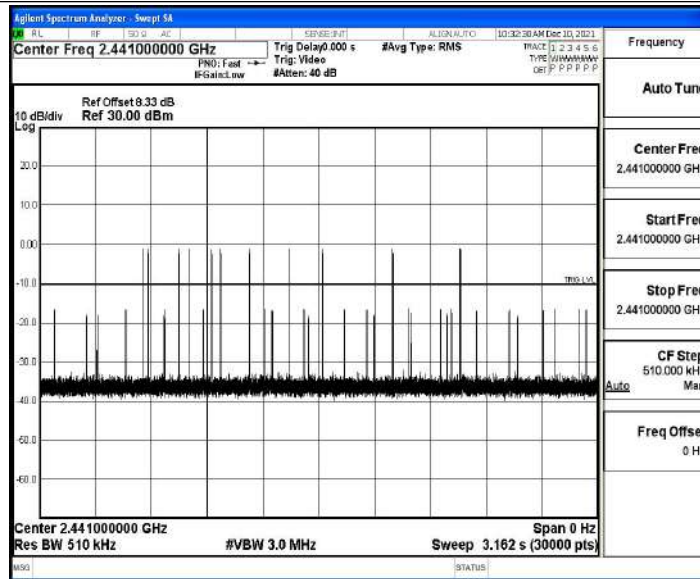


2DH5\_Ant1\_Hop



## 3DH5\_Ant1\_Hop







## A.5 Number of hopping channels

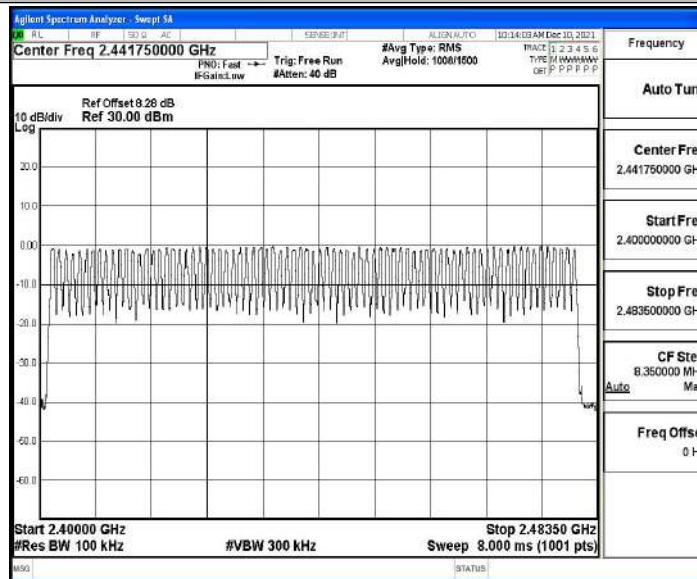
### Test Result

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

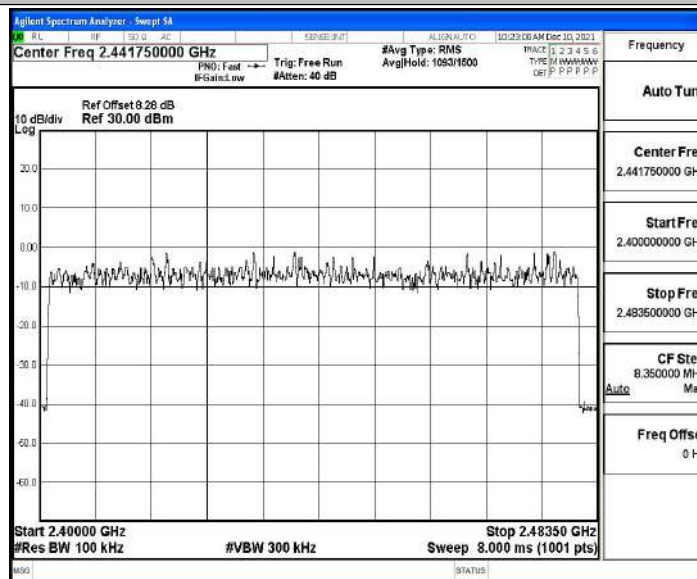


## Test Graphs

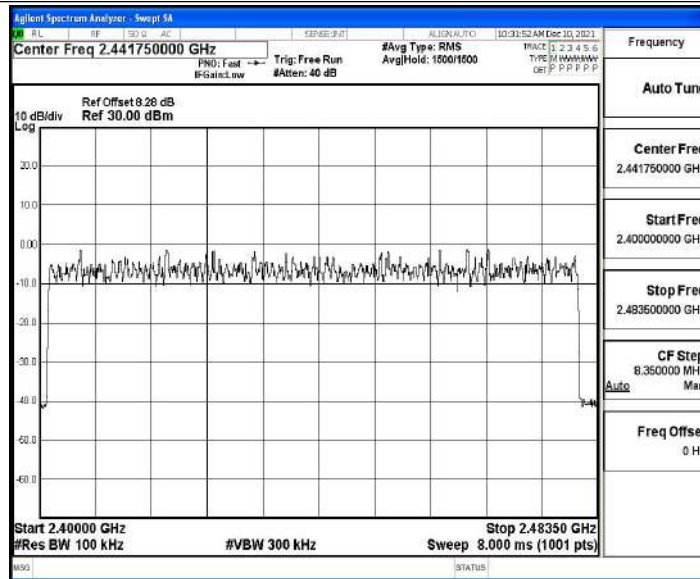
DH5\_Ant1\_Hop



2DH5\_Ant1\_Hop



3DH5\_Ant1\_Hop





## A.6 Band edge measurements

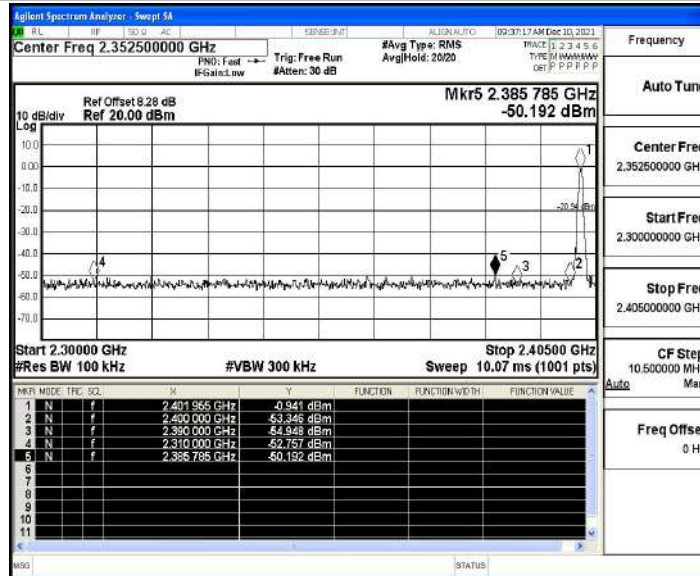
### Test Result

| TestMode | Antenna | ChName | Channel  | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|----------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | Low    | 2402     | -0.94             | -50.19          | $\leq -20.94$  | PASS    |
|          |         | High   | 2480     | -0.41             | -48.89          | $\leq -20.41$  | PASS    |
|          |         | Low    | Hop_2402 | -1.17             | -49.22          | $\leq -21.17$  | PASS    |
|          |         | High   | Hop_2480 | -0.25             | -48.36          | $\leq -20.25$  | PASS    |
| 2DH5     | Ant1    | Low    | 2402     | -5.05             | -50.41          | $\leq -25.05$  | PASS    |
|          |         | High   | 2480     | -2.61             | -49.77          | $\leq -22.61$  | PASS    |
|          |         | Low    | Hop_2402 | -1.81             | -49.37          | $\leq -21.81$  | PASS    |
|          |         | High   | Hop_2480 | -2.46             | -48.15          | $\leq -22.46$  | PASS    |
| 3DH5     | Ant1    | Low    | 2402     | -1.68             | -49.32          | $\leq -21.68$  | PASS    |
|          |         | High   | 2480     | -5.27             | -49.1           | $\leq -25.27$  | PASS    |
|          |         | Low    | Hop_2402 | -5.49             | -49.57          | $\leq -25.49$  | PASS    |
|          |         | High   | Hop_2480 | -1.07             | -48.03          | $\leq -21.07$  | PASS    |

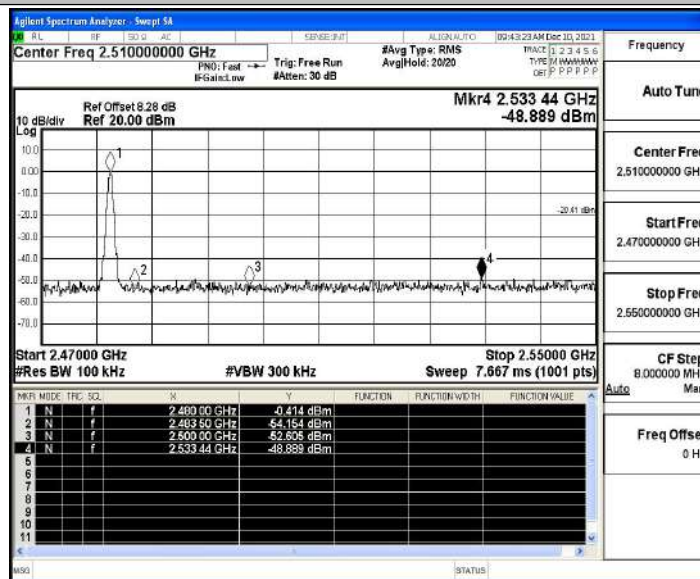


## Test Graphs

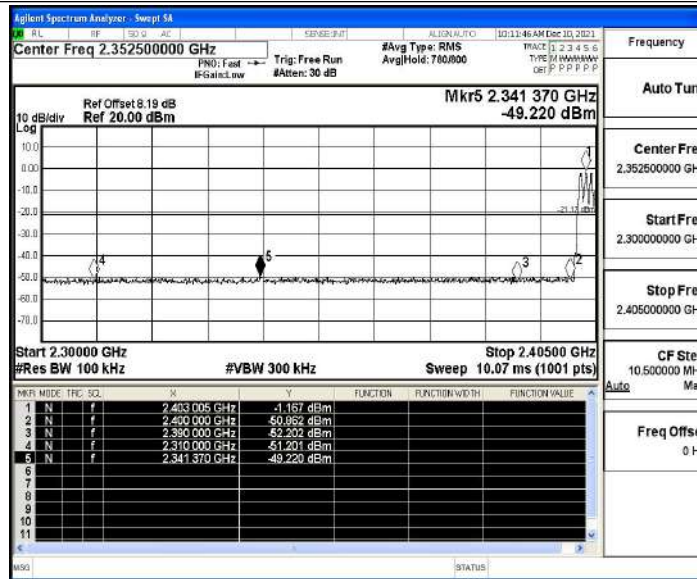
DH5\_Ant1\_Low\_2402



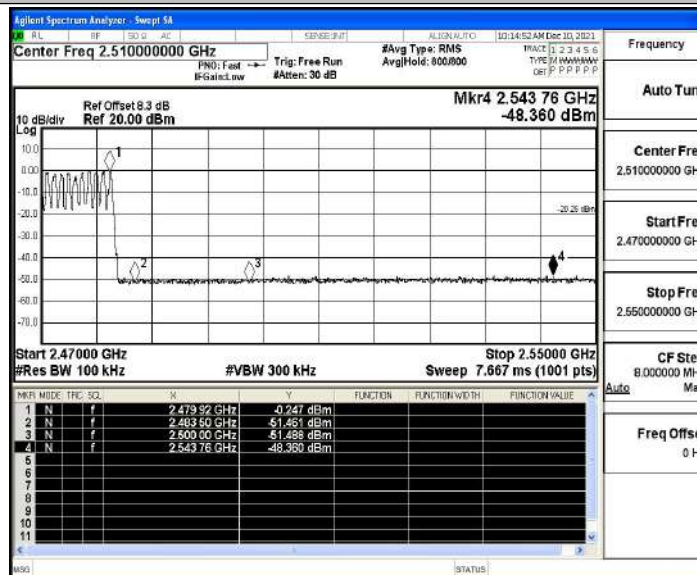
DH5\_Ant1\_High\_2480



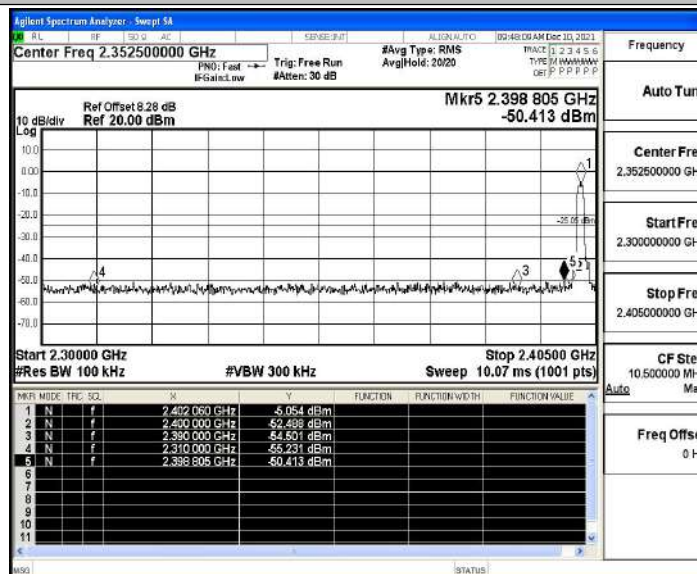
DH5\_Ant1\_Low\_Hop\_2402



DH5\_Ant1\_High\_Hop\_2480

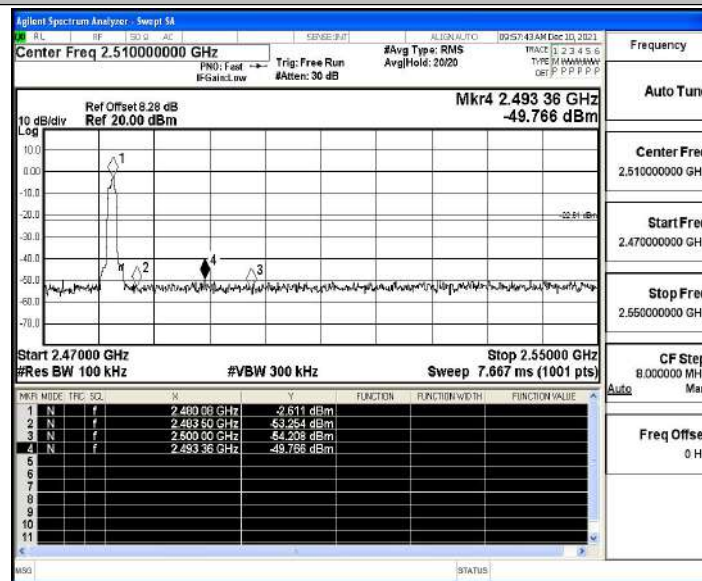


2DH5\_Ant1\_Low\_2402

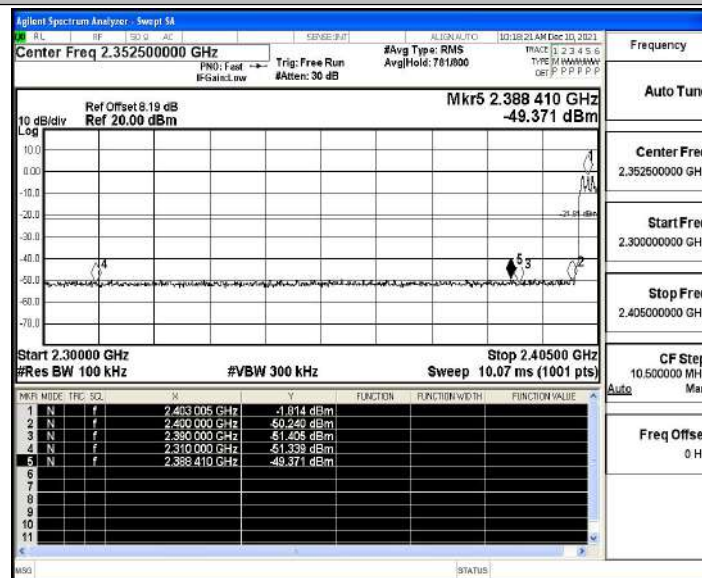




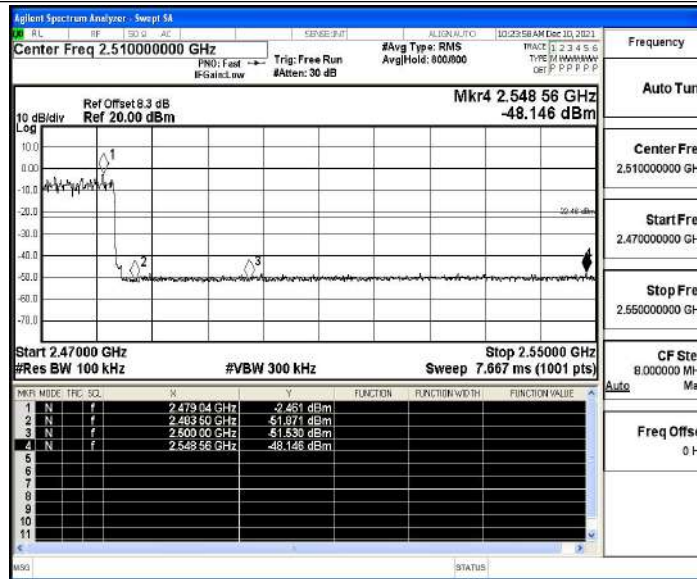
## 2DH5\_Ant1\_High\_2480



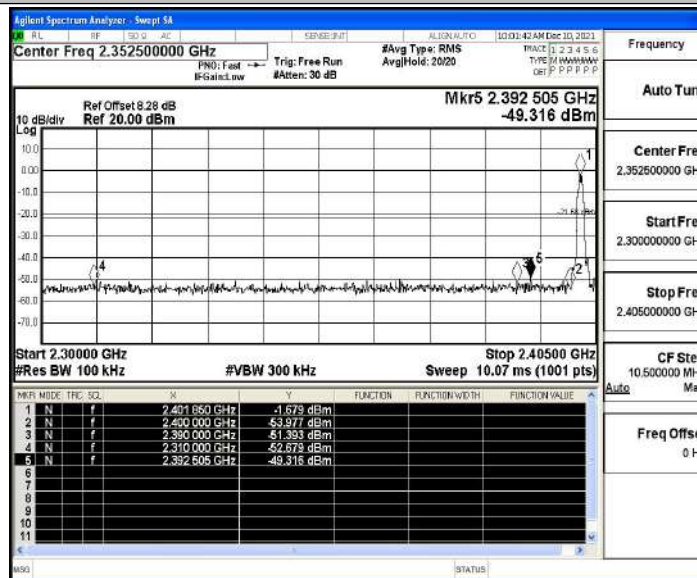
## 2DH5\_Ant1\_Low\_Hop\_2402



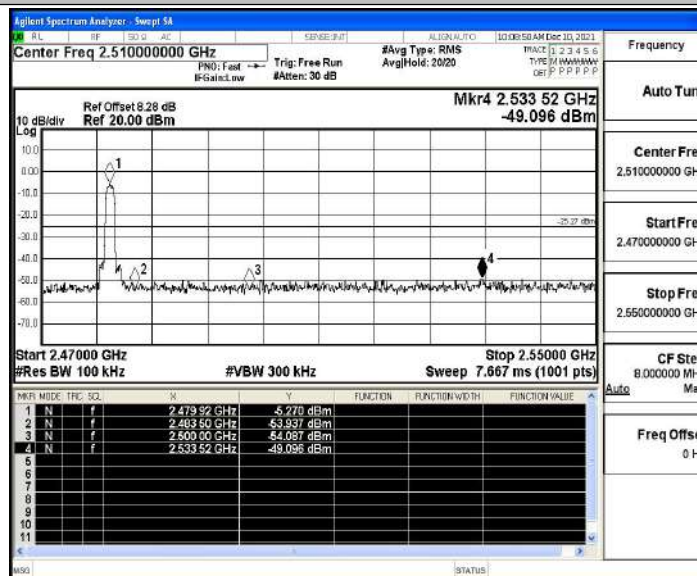
## 2DH5\_Ant1\_High\_Hop\_2480



3DH5\_Ant1\_Low\_2402

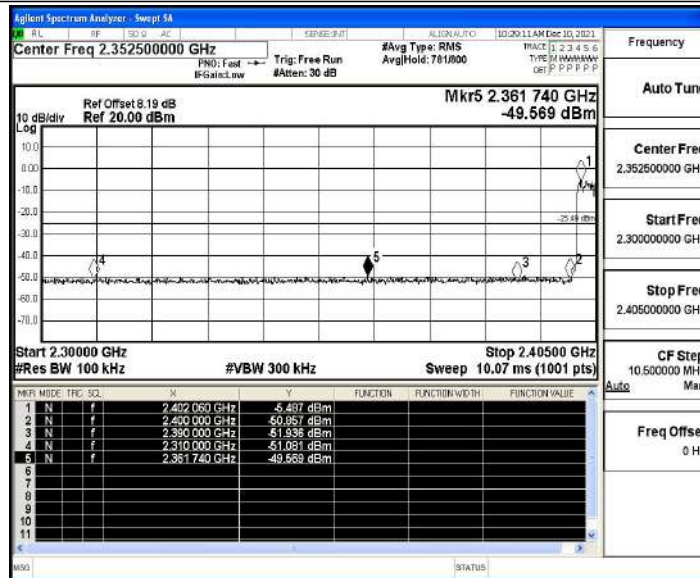


3DH5\_Ant1\_High\_2480

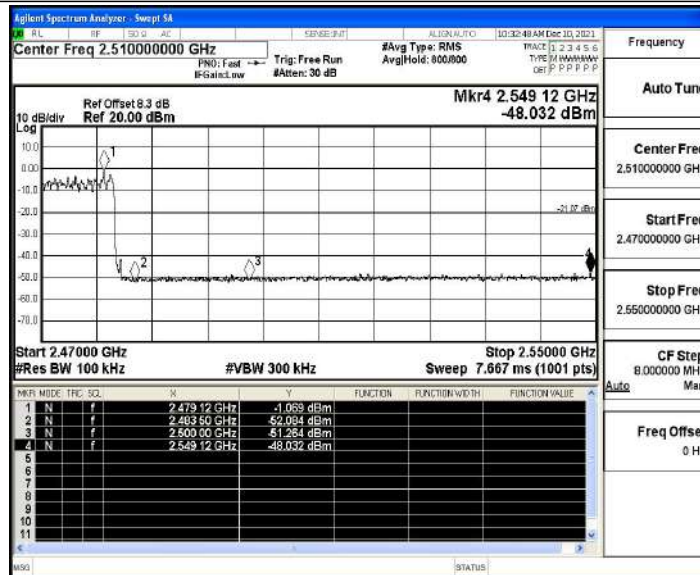




## 3DH5\_Ant1\_Low\_Hop\_2402



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





## A.7 Conducted Spurious Emission

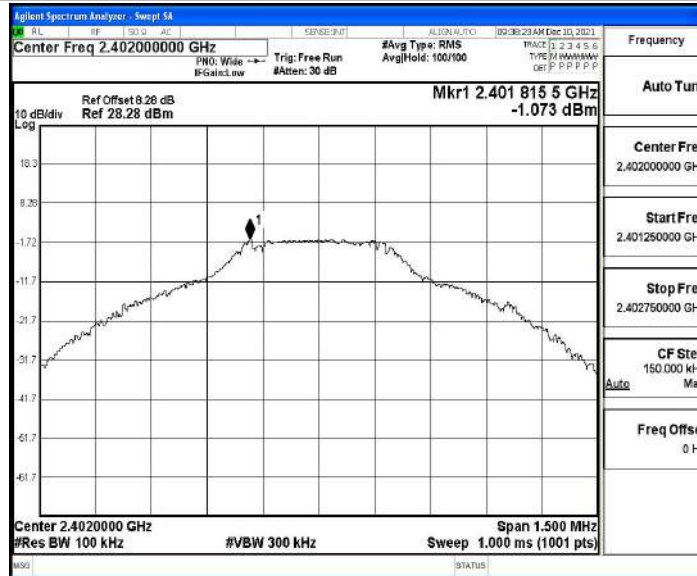
### Test Result

| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | 2402    | Reference          | -1.07             | -1.07           | ---            | PASS    |
|          |         |         | 30~1000            | -1.07             | -61.17          | $\leq -21.07$  | PASS    |
|          |         |         | 1000~26500         | -1.07             | -45.79          | $\leq -21.07$  | PASS    |
|          |         | 2441    | Reference          | -0.69             | -0.69           | ---            | PASS    |
|          |         |         | 30~1000            | -0.69             | -61.38          | $\leq -20.69$  | PASS    |
|          |         |         | 1000~26500         | -0.69             | -45.9           | $\leq -20.69$  | PASS    |
|          |         | 2480    | Reference          | -0.52             | -0.52           | ---            | PASS    |
|          |         |         | 30~1000            | -0.52             | -60.79          | $\leq -20.52$  | PASS    |
|          |         |         | 1000~26500         | -0.52             | -45.61          | $\leq -20.52$  | PASS    |
| 2DH5     | Ant1    | 2402    | Reference          | -1.68             | -1.68           | ---            | PASS    |
|          |         |         | 30~1000            | -1.68             | -61.2           | $\leq -21.68$  | PASS    |
|          |         |         | 1000~26500         | -1.68             | -46.67          | $\leq -21.68$  | PASS    |
|          |         | 2441    | Reference          | -1.13             | -1.13           | ---            | PASS    |
|          |         |         | 30~1000            | -1.13             | -60.49          | $\leq -21.13$  | PASS    |
|          |         |         | 1000~26500         | -1.13             | -46.22          | $\leq -21.13$  | PASS    |
|          |         | 2480    | Reference          | -1.34             | -1.34           | ---            | PASS    |
|          |         |         | 30~1000            | -1.34             | -61.38          | $\leq -21.34$  | PASS    |
|          |         |         | 1000~26500         | -1.34             | -46.49          | $\leq -21.34$  | PASS    |
| 3DH5     | Ant1    | 2402    | Reference          | -2.38             | -2.38           | ---            | PASS    |
|          |         |         | 30~1000            | -2.38             | -60.87          | $\leq -22.38$  | PASS    |
|          |         |         | 1000~26500         | -2.38             | -46.41          | $\leq -22.38$  | PASS    |
|          |         | 2441    | Reference          | -1.29             | -1.29           | ---            | PASS    |
|          |         |         | 30~1000            | -1.29             | -60.52          | $\leq -21.29$  | PASS    |
|          |         |         | 1000~26500         | -1.29             | -46.71          | $\leq -21.29$  | PASS    |
|          |         | 2480    | Reference          | -1.06             | -1.06           | ---            | PASS    |
|          |         |         | 30~1000            | -1.06             | -60.94          | $\leq -21.06$  | PASS    |
|          |         |         | 1000~26500         | -1.06             | -45.96          | $\leq -21.06$  | PASS    |

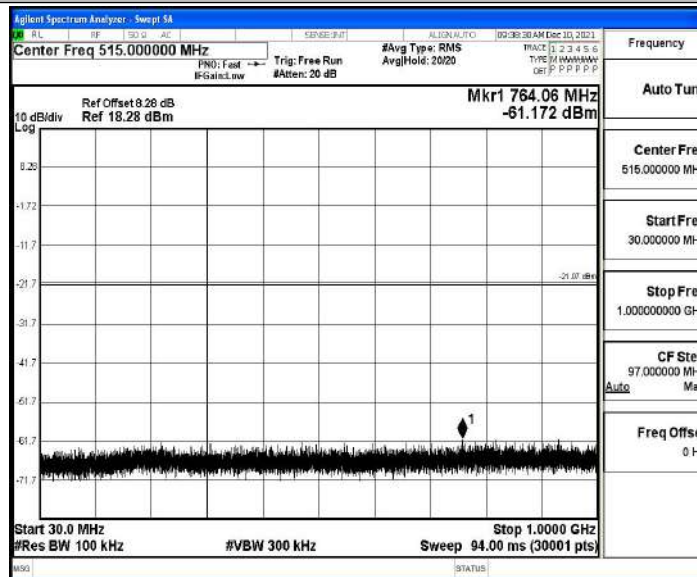


## Test Graphs

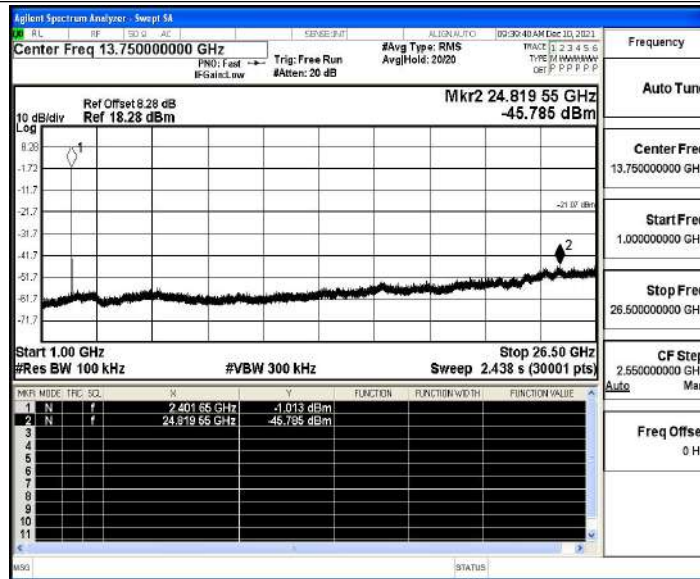
DH5\_Ant1\_2402\_0~Reference



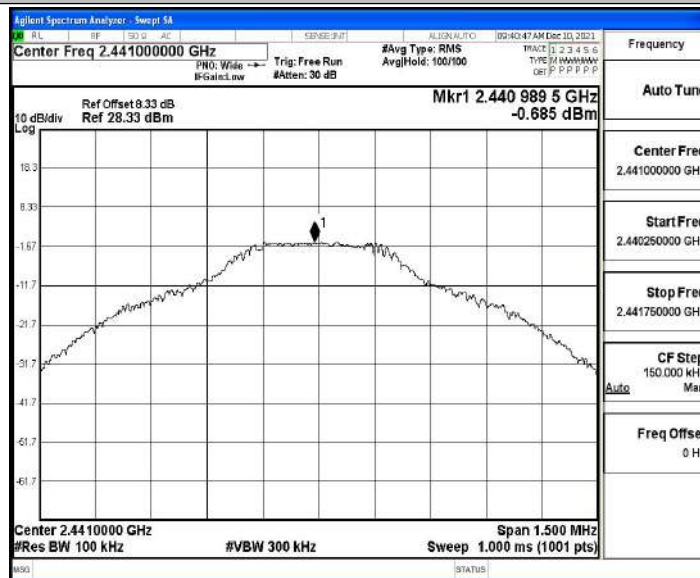
DH5\_Ant1\_2402\_30~1000



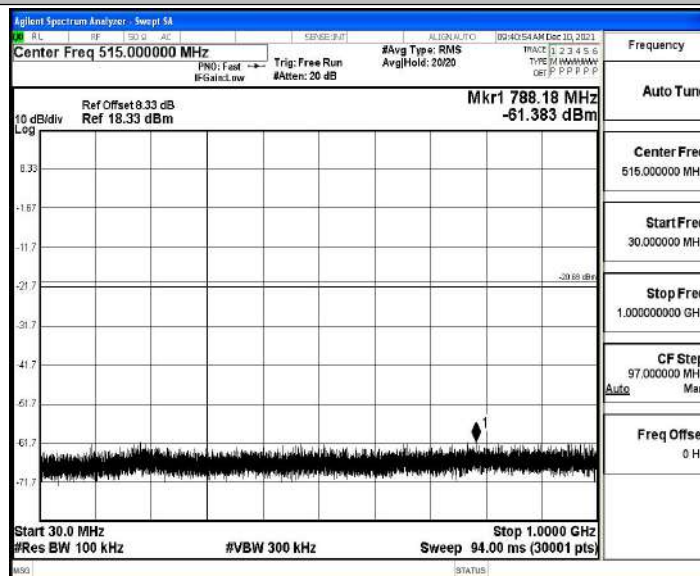
DH5\_Ant1\_2402\_1000~26500



DH5\_Ant1\_2441\_0~Reference

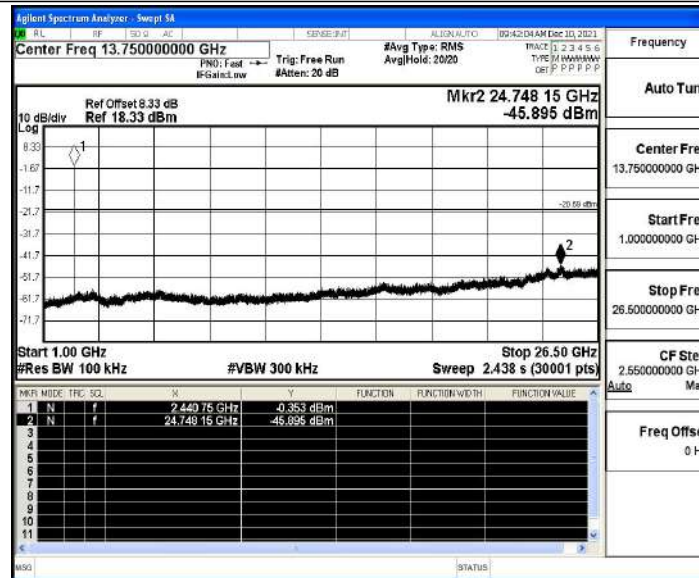


DH5\_Ant1\_2441\_30~1000

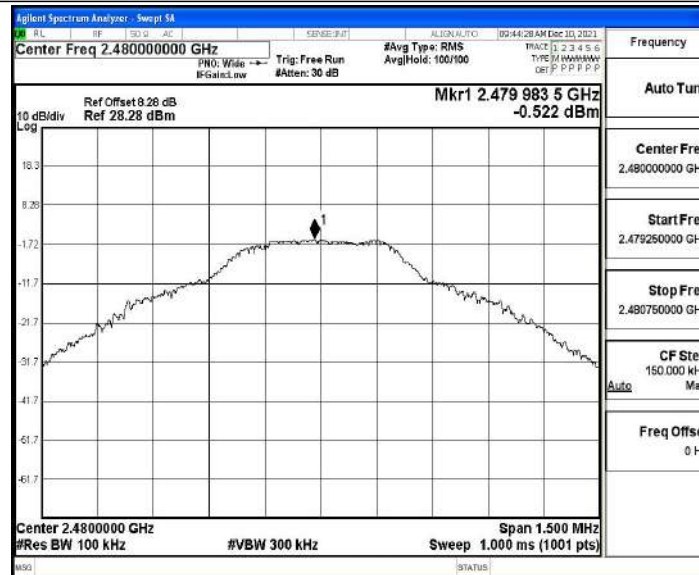




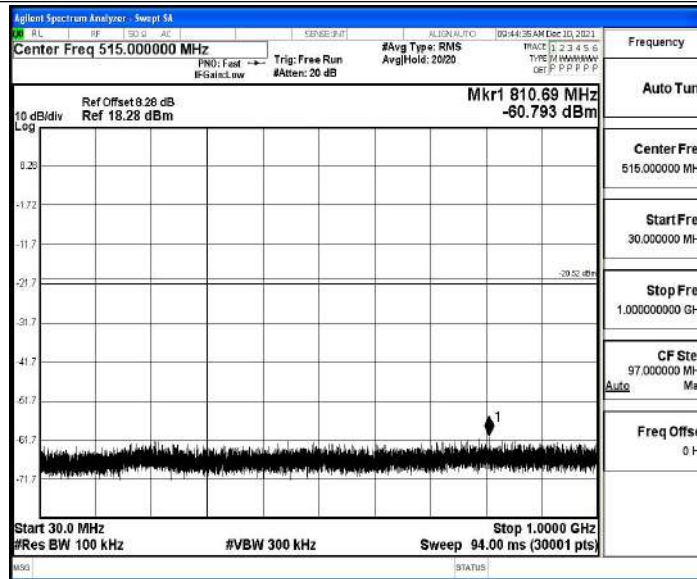
## DH5\_Ant1\_2441\_1000~26500



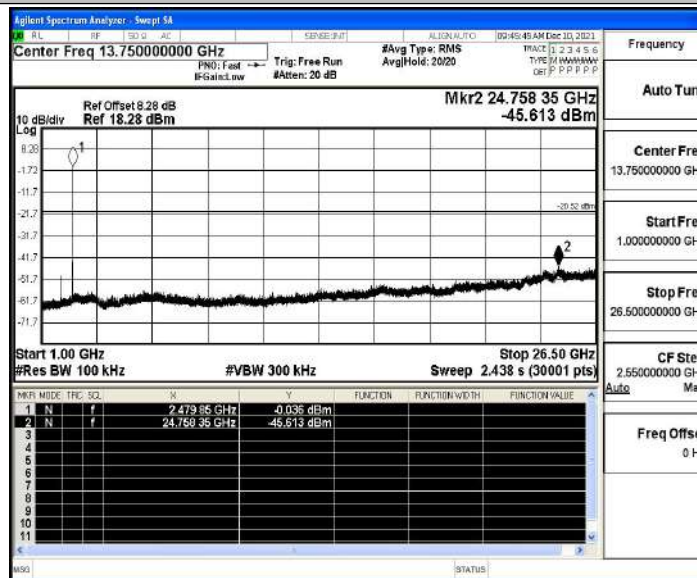
## DH5\_Ant1\_2480\_0~Reference



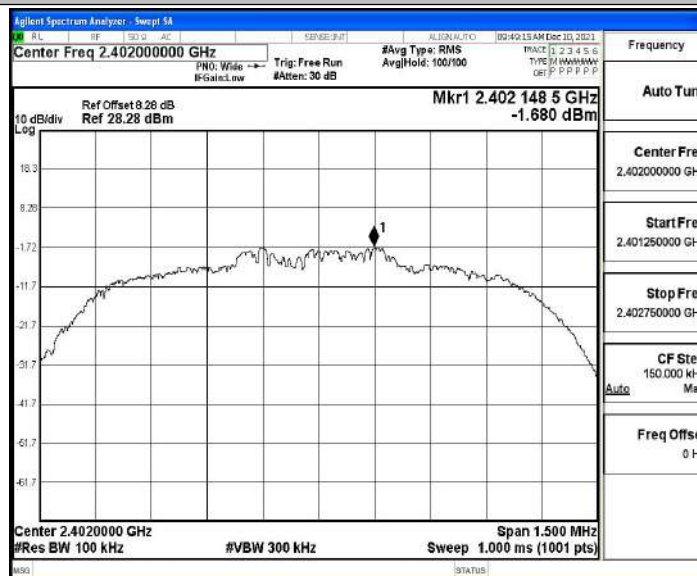
## DH5\_Ant1\_2480\_30~1000



DH5\_Ant1\_2480\_1000~26500

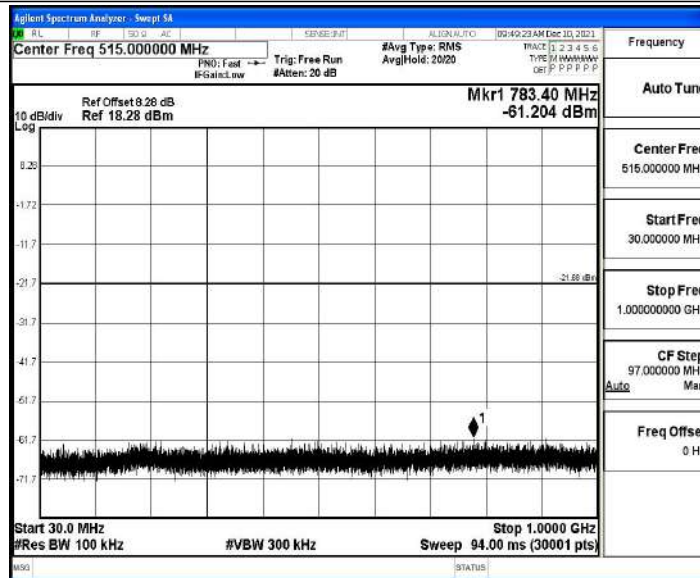


2DH5\_Ant1\_2402\_0~Reference

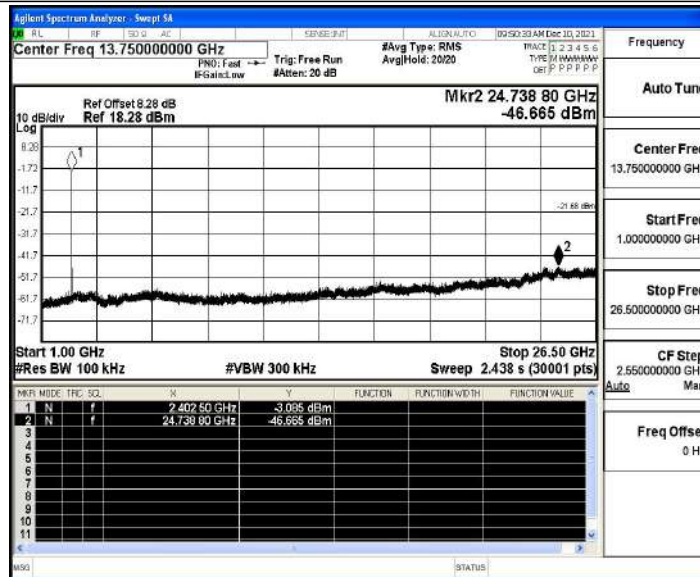




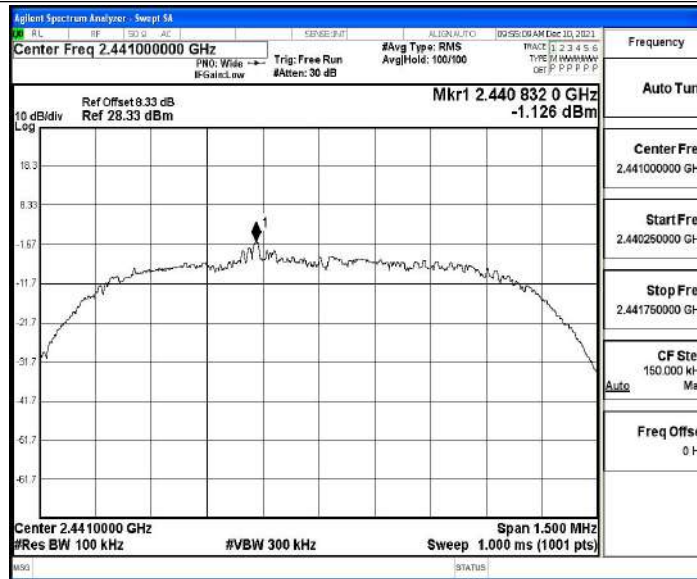
## 2DH5\_Ant1\_2402\_30~1000



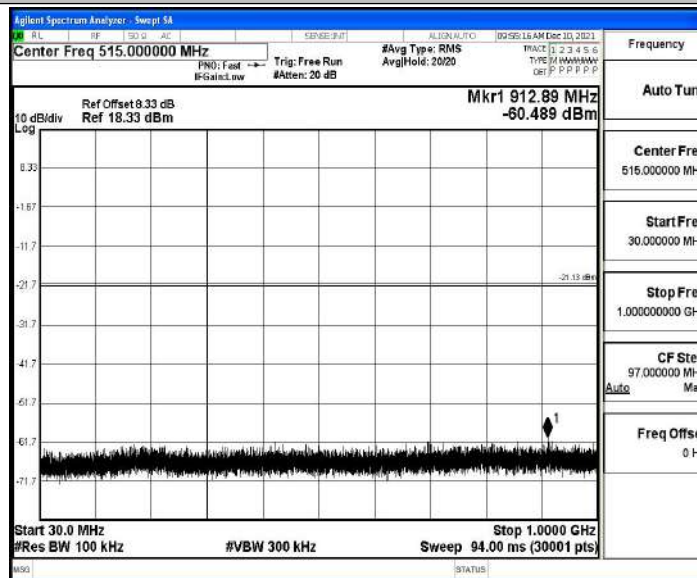
## 2DH5\_Ant1\_2402\_1000~26500



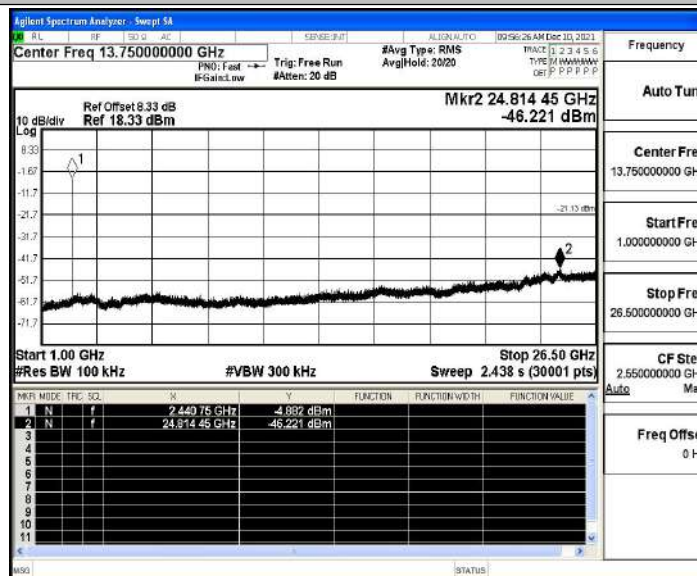
## 2DH5\_Ant1\_2441\_0~Reference



2DH5\_Ant1\_2441\_30~1000

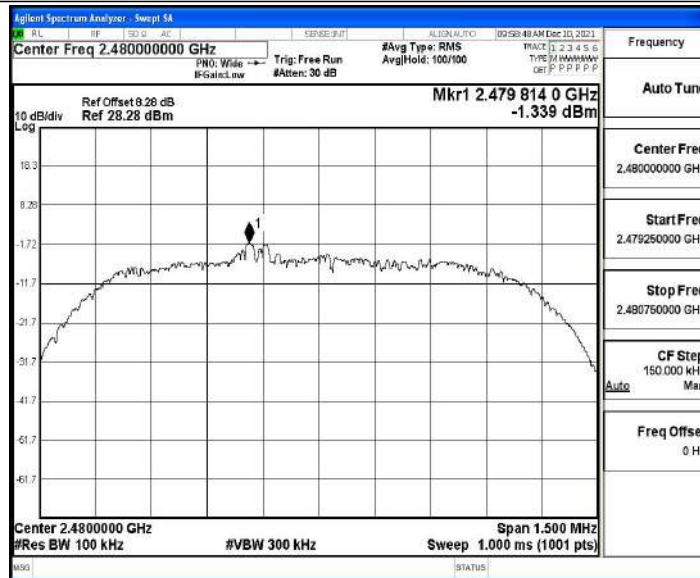


2DH5\_Ant1\_2441\_1000~26500

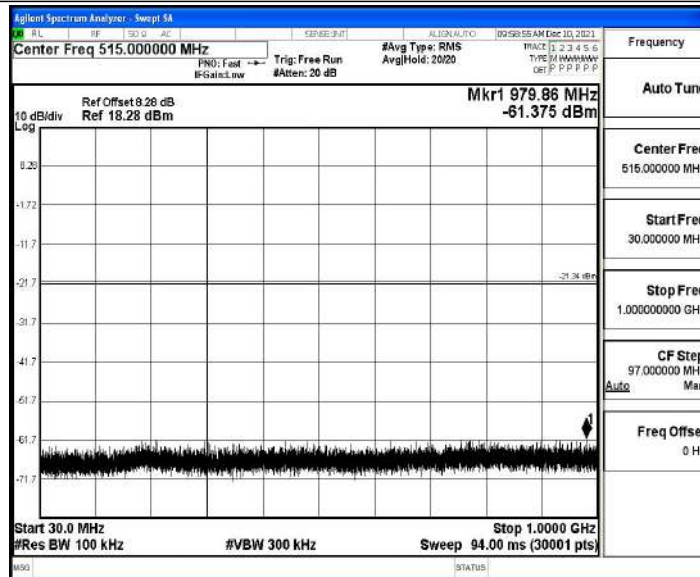




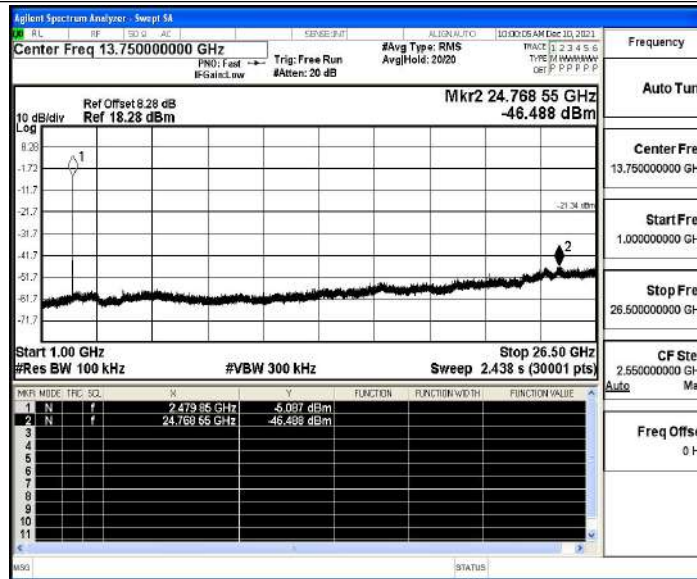
## 2DH5\_Ant1\_2480\_0~Reference



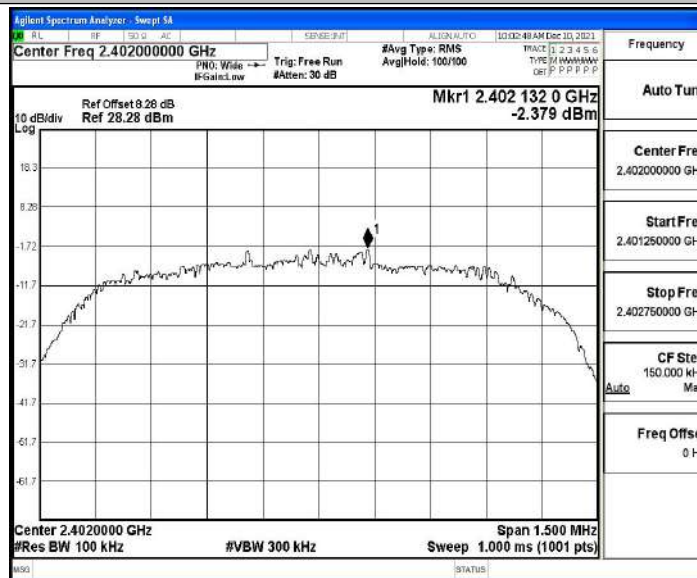
## 2DH5\_Ant1\_2480\_30~1000



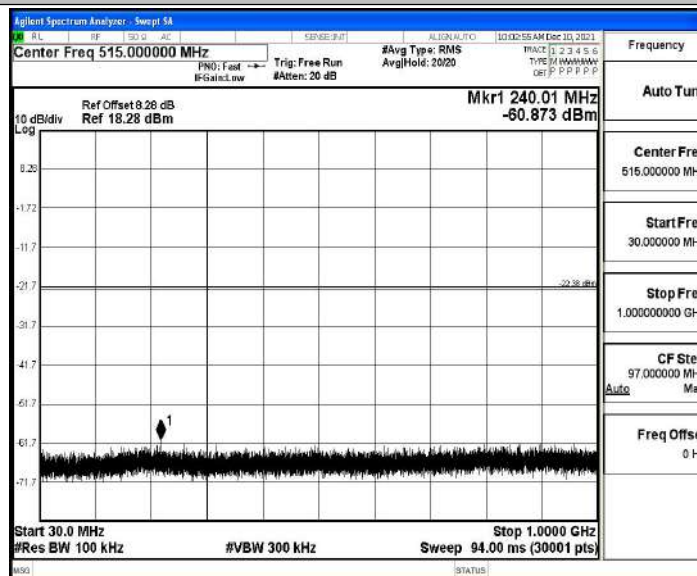
## 2DH5\_Ant1\_2480\_1000~26500



3DH5\_Ant1\_2402\_0~Reference

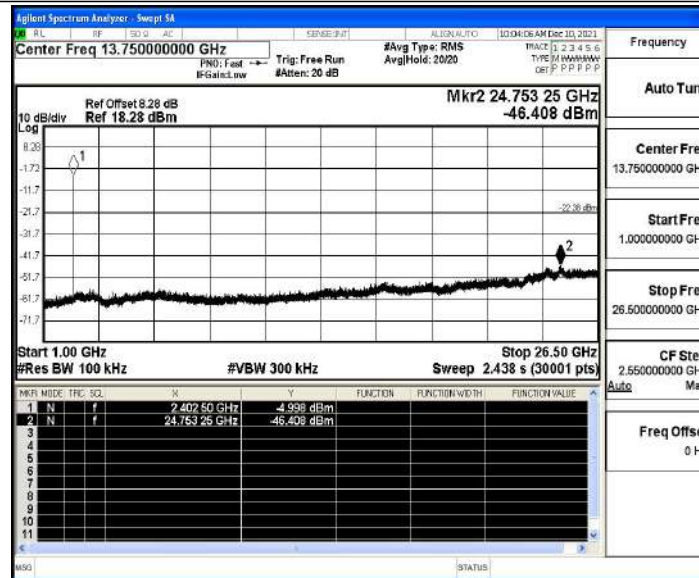


3DH5\_Ant1\_2402\_30~1000

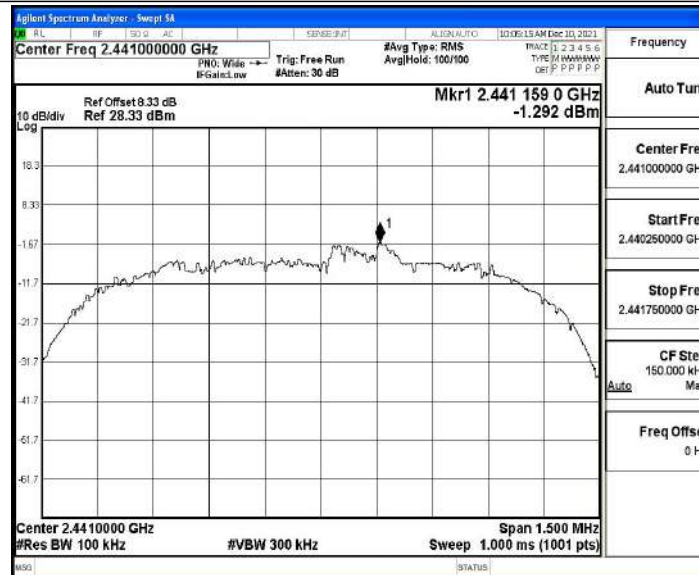




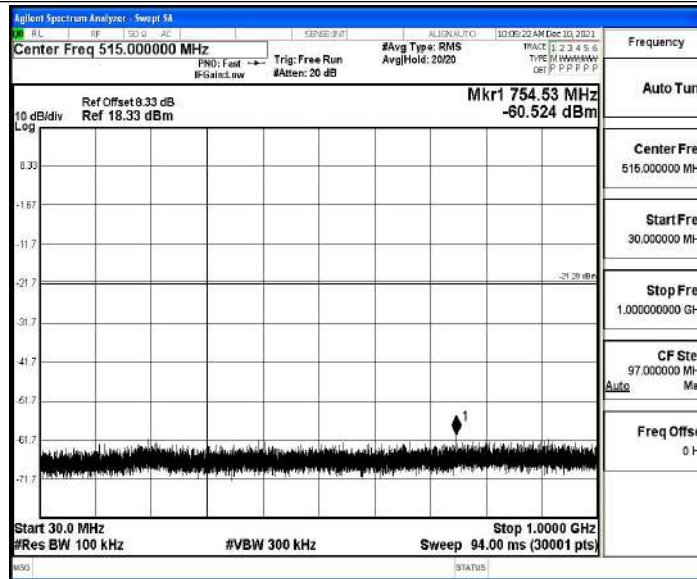
## 3DH5\_Ant1\_2402\_1000~26500



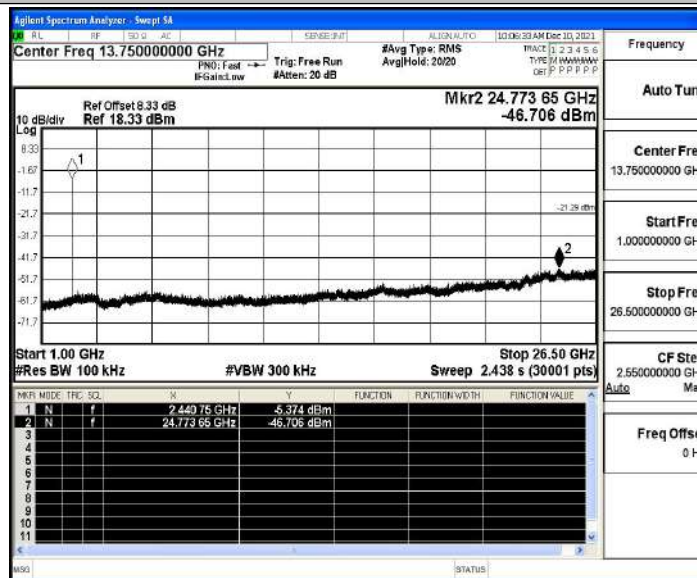
## 3DH5\_Ant1\_2441\_0~Reference



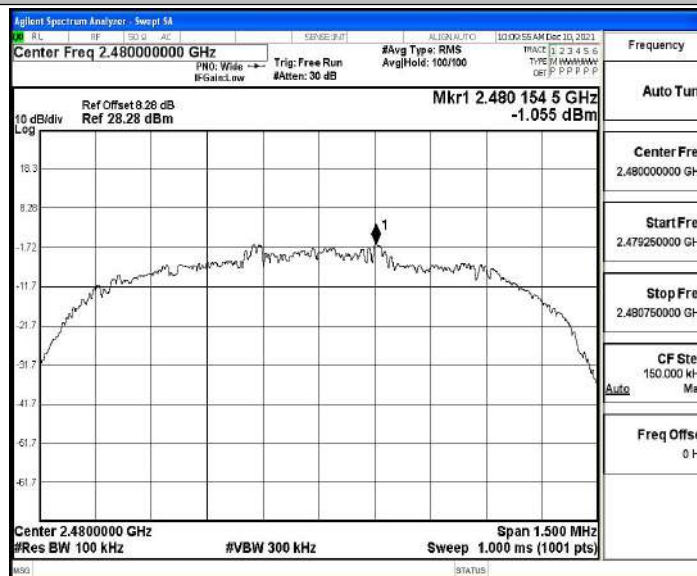
## 3DH5\_Ant1\_2441\_30~1000



3DH5\_Ant1\_2441\_1000~26500

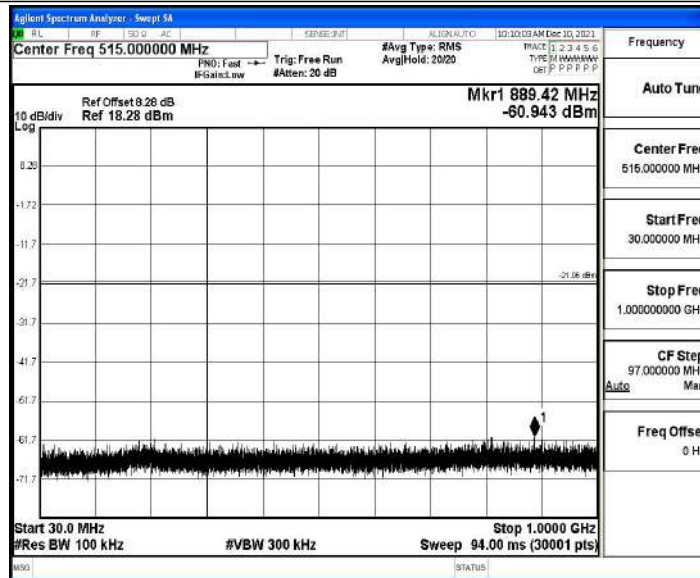


3DH5\_Ant1\_2480\_0~Reference

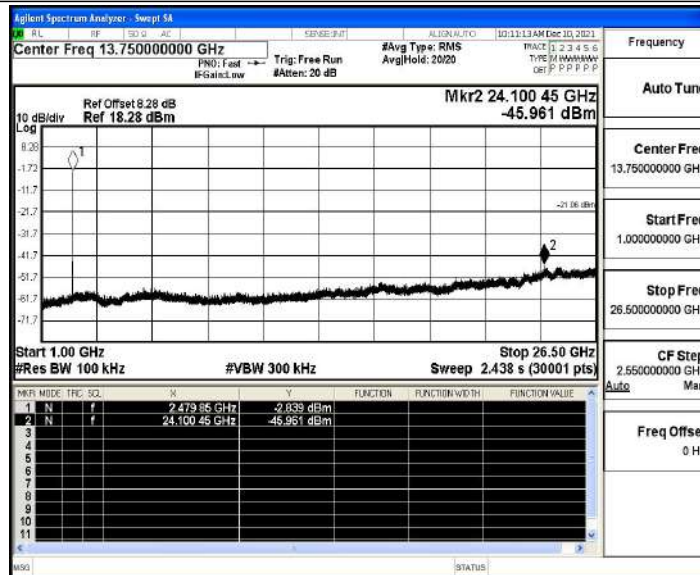




## 3DH5\_Ant1\_2480\_30~1000



## 3DH5\_Ant1\_2480\_1000~26500





## A.8 Emissions in Restricted Bands

### Test Result

| TestMode | Antenna | ChName | Channel | Detector | Freq. [MHz] | Result [dBm] | Limit [dBm] | Result [dBuV/m] | Limit [dBuV/m] | Verdict |
|----------|---------|--------|---------|----------|-------------|--------------|-------------|-----------------|----------------|---------|
| DH5      | Ant1    | Low    | 2402    | AV       | 2310.000    | -48.74       | ≤-41.20     | 46.46           | ≤54            | PASS    |
|          |         |        |         | AV       | 2383.580    | -48.23       | ≤-41.20     | 46.97           | ≤54            | PASS    |
|          |         |        |         | AV       | 2390.000    | -48.36       | ≤-41.20     | 46.84           | ≤54            | PASS    |
|          |         |        |         | Peak     | 2310.000    | -43.04       | ≤-21.20     | 52.16           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2358.065    | -39.04       | ≤-21.20     | 56.16           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2390.000    | -40.24       | ≤-21.20     | 54.96           | ≤74            | PASS    |
|          |         | High   | 2480    | AV       | 2483.500    | -47.73       | ≤-41.20     | 47.47           | ≤54            | PASS    |
|          |         |        |         | AV       | 2499.040    | -47.62       | ≤-41.20     | 47.58           | ≤54            | PASS    |
|          |         |        |         | AV       | 2500.000    | -47.7        | ≤-41.20     | 47.50           | ≤54            | PASS    |
|          |         |        |         | Peak     | 2483.500    | -41.1        | ≤-21.20     | 54.10           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2495.840    | -38.44       | ≤-21.20     | 56.76           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2500.000    | -40.23       | ≤-21.20     | 54.97           | ≤74            | PASS    |
| 2DH5     | Ant1    | Low    | 2402    | AV       | 2310.000    | -48.71       | ≤-41.20     | 46.49           | ≤54            | PASS    |
|          |         |        |         | AV       | 2385.470    | -48.02       | ≤-41.20     | 47.18           | ≤54            | PASS    |
|          |         |        |         | AV       | 2390.000    | -48.24       | ≤-41.20     | 46.96           | ≤54            | PASS    |
|          |         |        |         | Peak     | 2310.000    | -42.86       | ≤-21.20     | 52.34           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2380.850    | -39.31       | ≤-21.20     | 55.89           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2390.000    | -42.44       | ≤-21.20     | 52.76           | ≤74            | PASS    |
|          |         | High   | 2480    | AV       | 2483.500    | -47.62       | ≤-41.20     | 47.58           | ≤54            | PASS    |
|          |         |        |         | AV       | 2490.560    | -47.6        | ≤-41.20     | 47.60           | ≤54            | PASS    |
|          |         |        |         | AV       | 2500.000    | -47.69       | ≤-41.20     | 47.51           | ≤54            | PASS    |
|          |         |        |         | Peak     | 2483.500    | -41.41       | ≤-21.20     | 53.79           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2490.000    | -38.54       | ≤-21.20     | 56.66           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2500.000    | -40.25       | ≤-21.20     | 54.95           | ≤74            | PASS    |
| 3DH5     | Ant1    | Low    | 2402    | AV       | 2310.000    | -48.8        | ≤-41.20     | 46.40           | ≤54            | PASS    |
|          |         |        |         | AV       | 2389.670    | -48.15       | ≤-41.20     | 47.05           | ≤54            | PASS    |
|          |         |        |         | AV       | 2390.000    | -48.29       | ≤-41.20     | 46.91           | ≤54            | PASS    |
|          |         |        |         | Peak     | 2310.000    | -43.23       | ≤-21.20     | 51.97           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2358.695    | -39.19       | ≤-21.20     | 56.01           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2390.000    | -42.69       | ≤-21.20     | 52.51           | ≤74            | PASS    |
|          |         | High   | 2480    | AV       | 2483.500    | -47.65       | ≤-41.20     | 47.55           | ≤54            | PASS    |
|          |         |        |         | AV       | 2499.040    | -47.46       | ≤-41.20     | 47.74           | ≤54            | PASS    |
|          |         |        |         | AV       | 2500.000    | -47.69       | ≤-41.20     | 47.51           | ≤54            | PASS    |
|          |         |        |         | Peak     | 2483.500    | -40.48       | ≤-21.20     | 54.72           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2499.840    | -38.77       | ≤-21.20     | 56.43           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2500.000    | -42.09       | ≤-21.20     | 53.11           | ≤74            | PASS    |



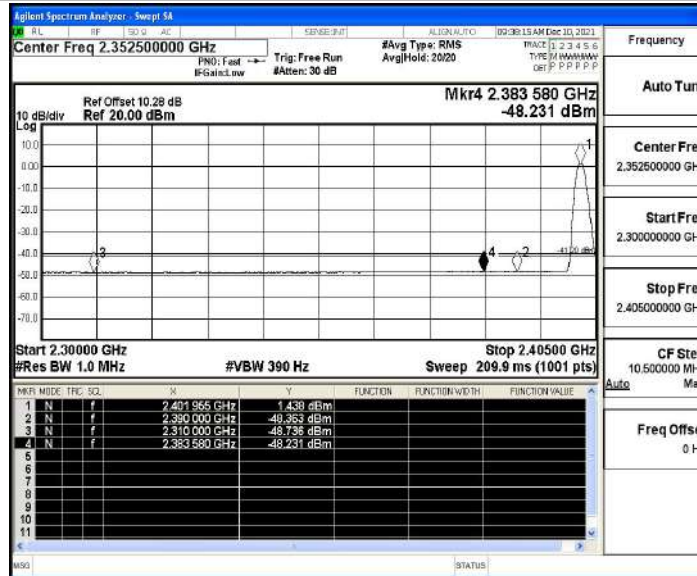
Note:

1. The Antenna Gain is compensated in the graph.
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 dBm.

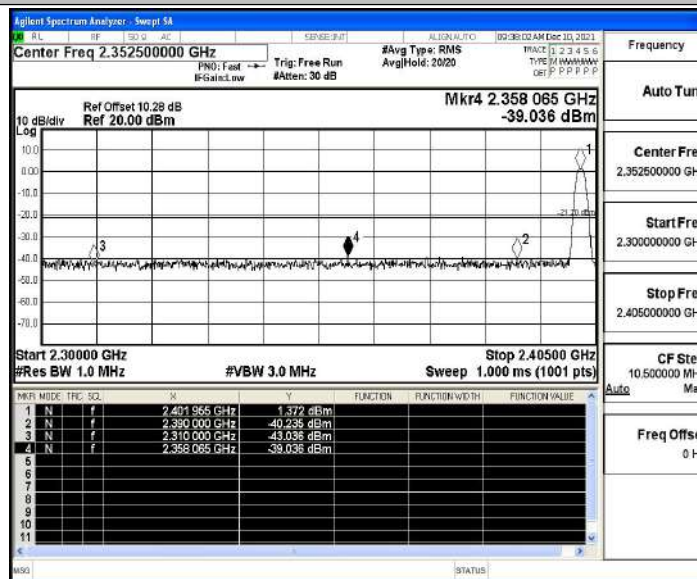


## Test Graphs

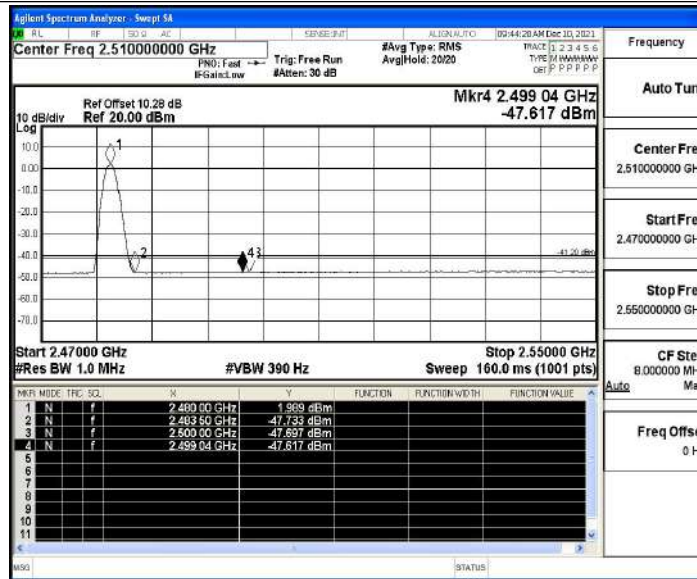
DH5\_Ant1\_Low\_2402\_AV



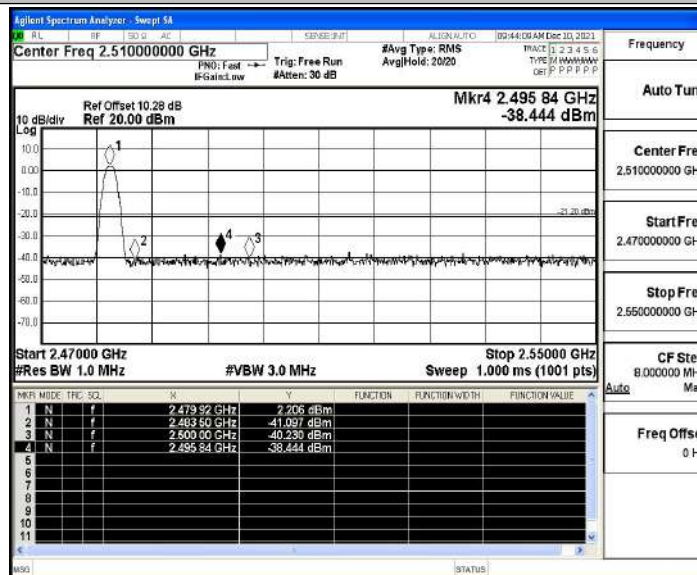
DH5\_Ant1\_Low\_2402\_Peak



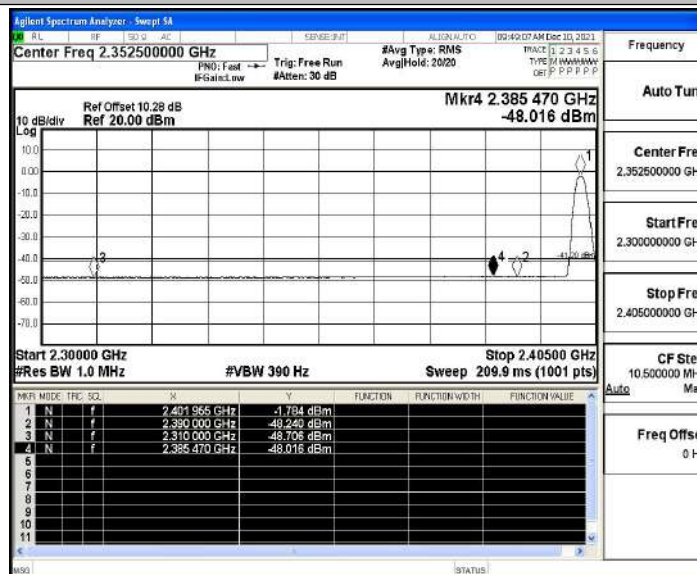
DH5\_Ant1\_High\_2480\_AV



DH5\_Ant1\_High\_2480\_Peak

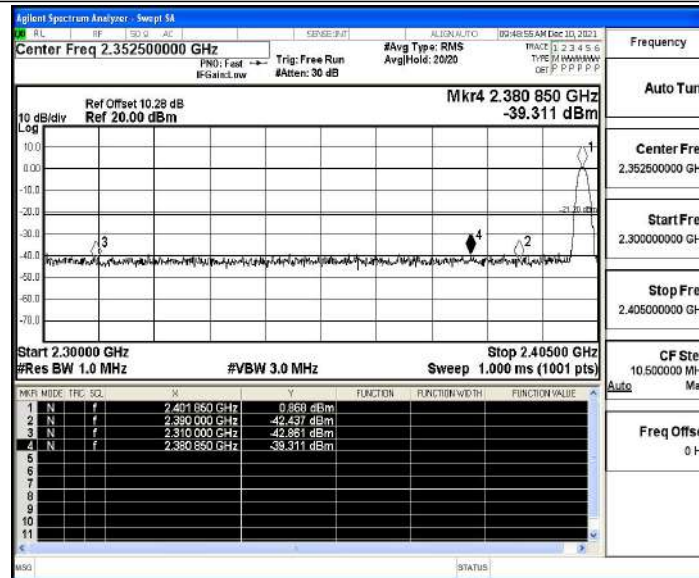


2DH5\_Ant1\_Low\_2402\_AV

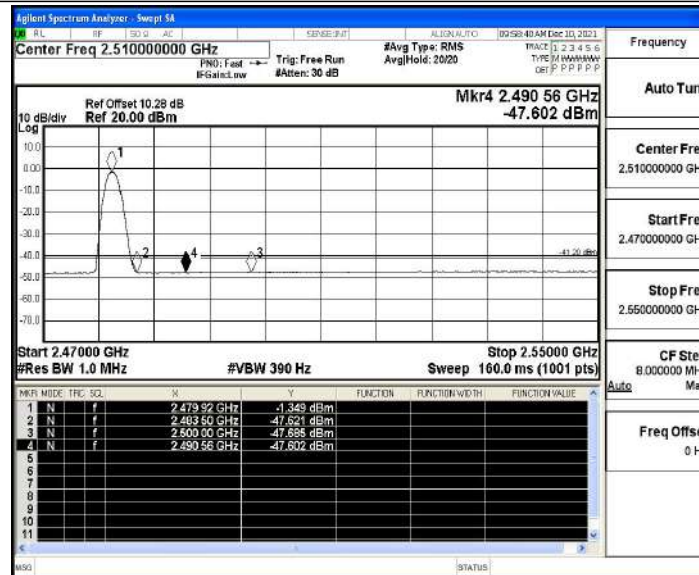




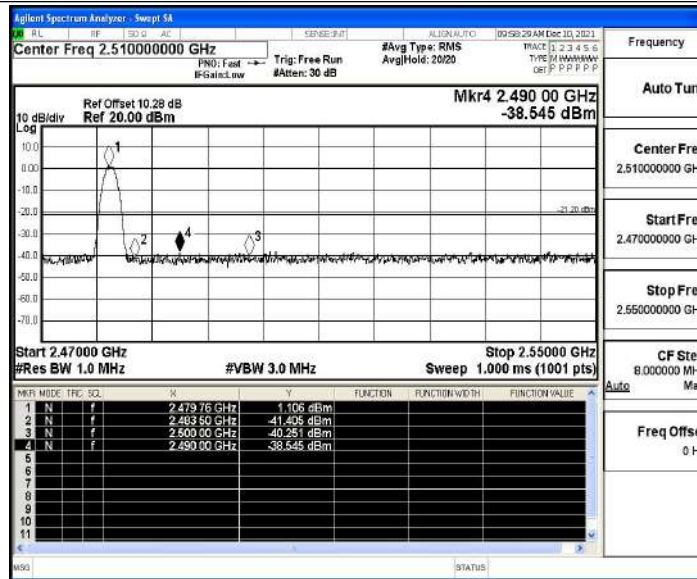
## 2DH5\_Ant1\_Low\_2402\_Peak



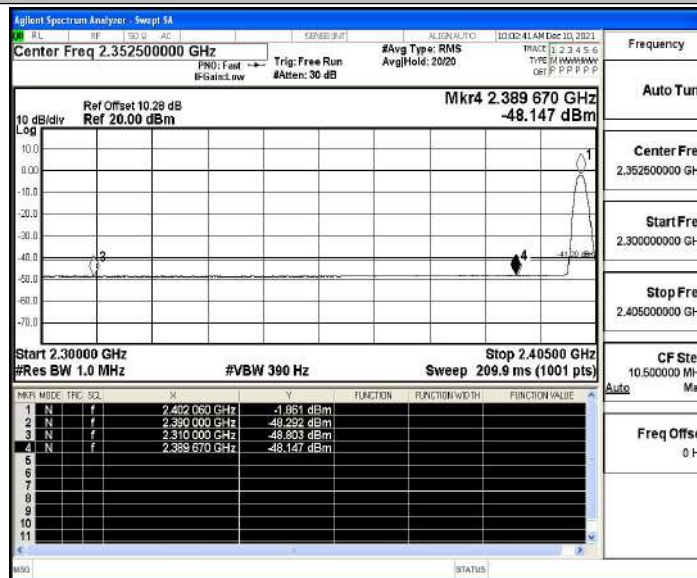
## 2DH5\_Ant1\_High\_2480\_AV



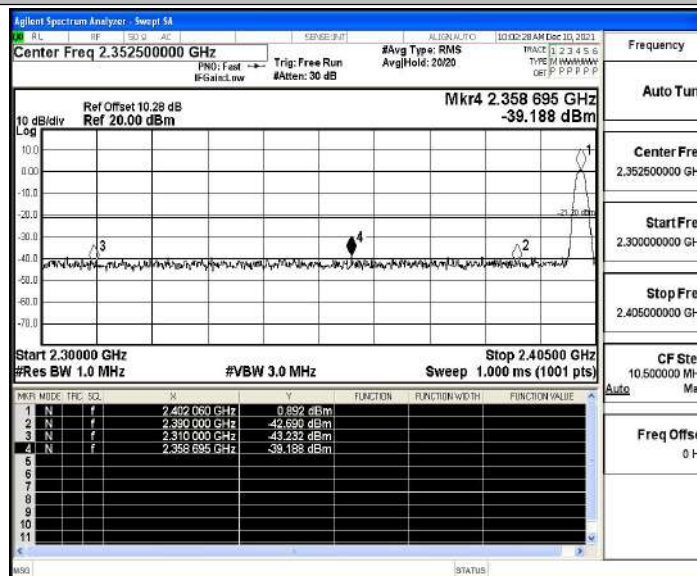
## 2DH5\_Ant1\_High\_2480\_Peak



3DH5\_Ant1\_Low\_2402\_AV

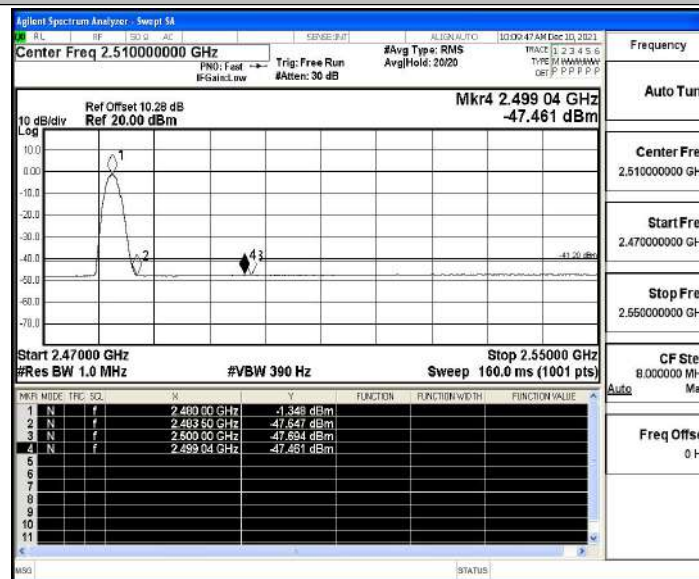


3DH5\_Ant1\_Low\_2402\_Peak





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



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

