

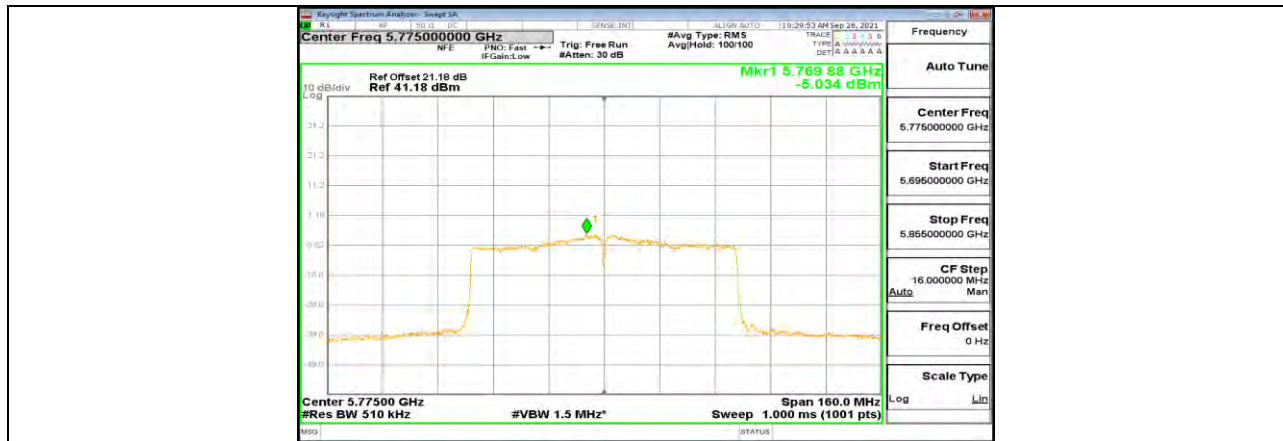
11AC80MIMO Ant2 5690 UNII-2C



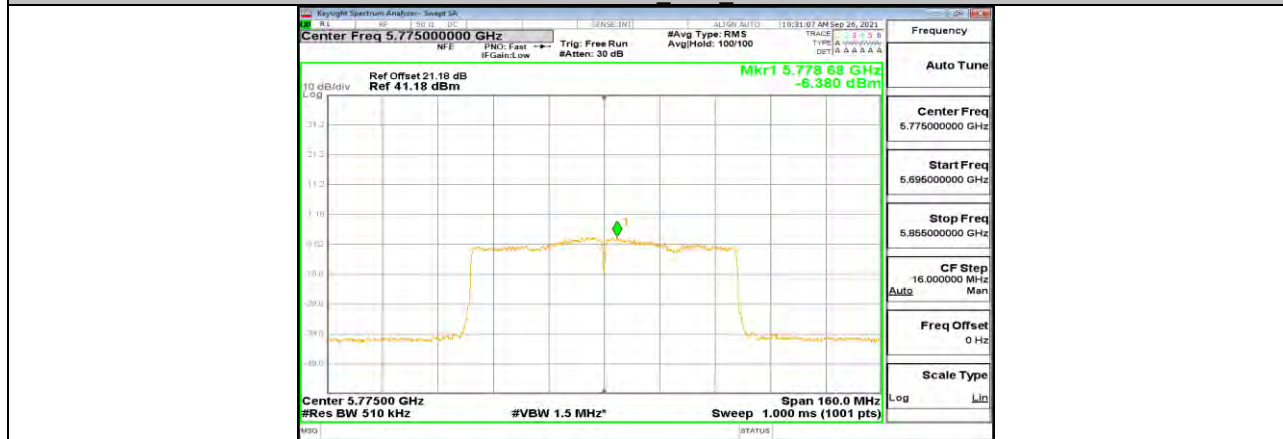
11AC80MIMO Ant1 5690 UNII-3



11AC80MIMO Ant2 5690 UNII-3



11AC80MIMO\_Ant1\_5775



11AC80MIMO\_Ant2\_5775



## 12.6. Appendix D: Duty Cycle

### 12.6.1. Test Result

| Mode       | On Time (msec) | Period (msec) | Duty Cycle x (Linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/T Minimum VBW (kHz) | Final setting For VBW (kHz) |
|------------|----------------|---------------|-----------------------|----------------|-----------------------------------|-----------------------|-----------------------------|
| 11A20      | 1.39           | 1.43          | 0.9720                | 97.20          | 0.12                              | 0.72                  | 1                           |
| 11N20MIMO  | 1.30           | 1.35          | 0.9630                | 96.30          | 0.16                              | 0.77                  | 1                           |
| 11N40MIMO  | 0.65           | 0.69          | 0.9420                | 94.20          | 0.26                              | 1.54                  | 2                           |
| 11AC80MIMO | 0.19           | 0.23          | 0.8261                | 82.61          | 0.83                              | 5.26                  | 6                           |

Note:

Duty Cycle Correction Factor= $10\log(1/x)$ .

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.



### 12.6.2. Test Graphs





11AC80MIMO\_Ant1\_5210

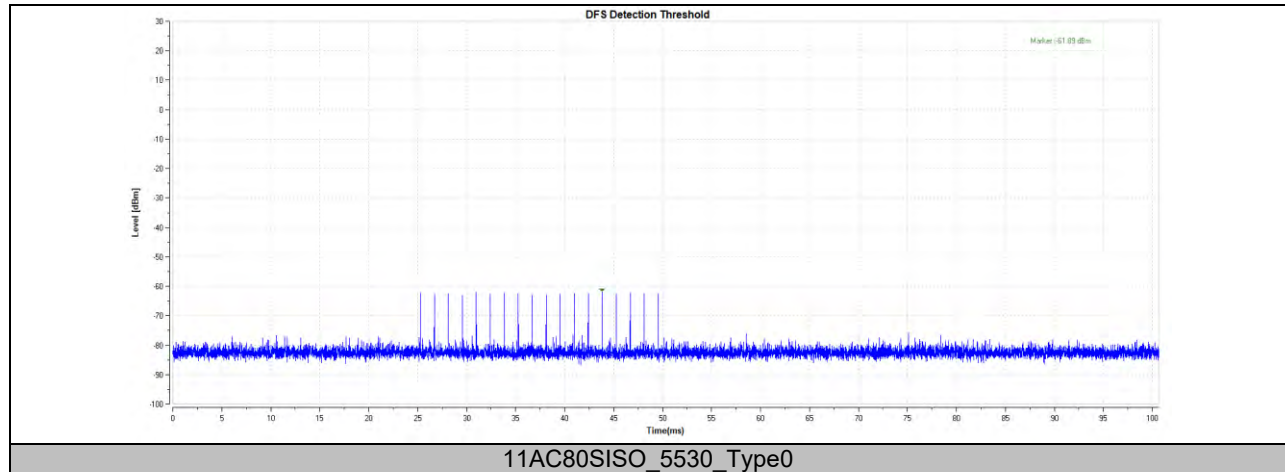


## 12.7. Appendix E: DFS Detection Thresholds

### 12.7.1. Test Result

| Test Mode  | Channel | Radar Type | Result | Limit[dbm] | Verdict |
|------------|---------|------------|--------|------------|---------|
| 11AC80SISO | 5530    | Type0      | -61.89 | -58.00     | PASS    |

### 12.7.2. Test Graphs





## 12.8. Appendix F: Channel Move Time and Channel Closing Transmission Time

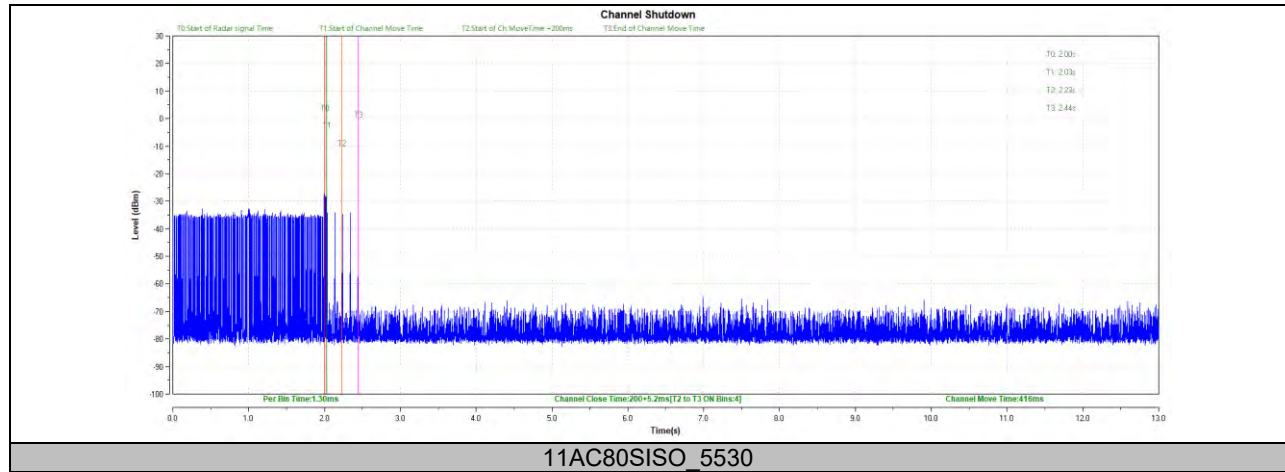
### 12.8.1. Test Result

| Test Mode  | Channel | CCT[ms] | Limit[ms] | CMT[ms] | Limit[ms] | Verdict |
|------------|---------|---------|-----------|---------|-----------|---------|
| 11AC80SISO | 5530    | 200+5.2 | 200+60    | 416     | 10000     | PASS    |





### 12.8.2. Test Graphs





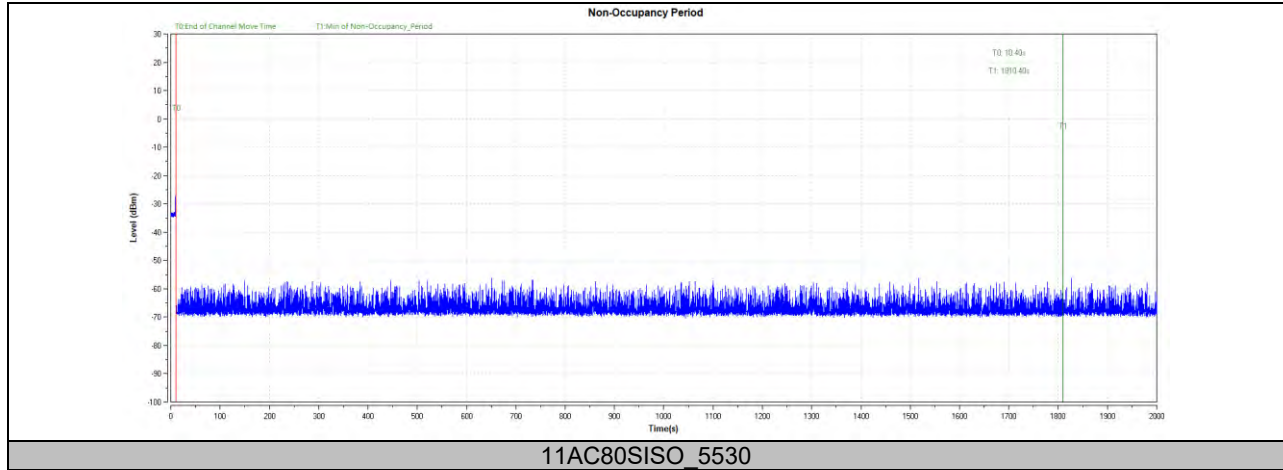
## 12.9. Appendix G: Non-Occupancy Period

### Test Result

| Test Mode  | Channel | Result         | Limit[s]    | Verdict |
|------------|---------|----------------|-------------|---------|
| 11AC80SISO | 5500    | see test graph | $\geq 1800$ | PASS    |



### 12.9.1. Test Graphs





**12.10. Appendix H: Frequency Stability**  
**12.10.1. Test Result**

| Frequency Error vs. Voltage     |       |                  |                 |                  |                 |                  |                 |                  |                 |
|---------------------------------|-------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11a20:5200MHz               |       |                  |                 |                  |                 |                  |                 |                  |                 |
| Temp.                           | Volt. | 0 Minute         |                 | 2 Minute         |                 | 5 Minute         |                 | 10 Minute        |                 |
|                                 |       | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| TN                              | VL    | 5199.9835        | -3.18           | 5199.9788        | -4.08           | 5200.0157        | 3.02            | 5199.9896        | -2.01           |
| TN                              | VN    | 5199.9813        | -3.59           | 5200.0167        | 3.20            | 5199.9754        | -4.73           | 5200.0099        | 1.91            |
| TN                              | VH    | 5200.0162        | 3.12            | 5200.0167        | 3.21            | 5199.9996        | -0.09           | 5199.9788        | -4.08           |
| Frequency Error vs. Temperature |       |                  |                 |                  |                 |                  |                 |                  |                 |
| 802.11a:5200MHz                 |       |                  |                 |                  |                 |                  |                 |                  |                 |
| Temp.                           | Volt. | 0 Minute         |                 | 2 Minute         |                 | 5 Minute         |                 | 10 Minute        |                 |
|                                 |       | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| 70                              | VN    | 5199.9986        | -0.26           | 5200.0229        | 4.41            | 5199.9859        | -2.71           | 5199.9837        | -3.13           |
| 60                              | VN    | 5200.0093        | 1.78            | 5200.0126        | 2.43            | 5200.0184        | 3.54            | 5200.0074        | 1.43            |
| 50                              | VN    | 5200.0012        | 0.23            | 5200.0248        | 4.76            | 5200.0072        | 1.39            | 5200.0031        | 0.59            |
| 40                              | VN    | 5200.0019        | 0.37            | 5200.0064        | 1.24            | 5200.0013        | 0.25            | 5199.9980        | -0.38           |
| 30                              | VN    | 5199.9766        | -4.51           | 5200.0124        | 2.38            | 5200.0127        | 2.45            | 5200.0144        | 2.78            |
| 20                              | VN    | 5199.9946        | -1.04           | 5199.9956        | -0.84           | 5200.0104        | 1.99            | 5200.0227        | 4.36            |
| 10                              | VN    | 5199.9753        | -4.75           | 5199.9761        | -4.60           | 5200.0153        | 2.95            | 5199.9757        | -4.67           |
| 0                               | VN    | 5200.0035        | 0.67            | 5199.9938        | -1.19           | 5200.0230        | 4.42            | 5199.9860        | -2.69           |

Note:

1. All antennas and test modes have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 10 TEST ENVIRONMENT.



| Frequency Error vs. Voltage |       |                  |                 |                  |                 |                  |                 |                  |                 |
|-----------------------------|-------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11a:5825MHz             |       |                  |                 |                  |                 |                  |                 |                  |                 |
| Temp.                       | Volt. | 0 Minute         |                 | 2 Minute         |                 | 5 Minute         |                 | 10 Minute        |                 |
|                             |       | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| TN                          | VL    | 5825.0158        | 2.72            | 5824.9777        | -3.82           | 5825.0119        | 2.04            | 5824.9799        | -3.45           |
| TN                          | VN    | 5824.9952        | -0.83           | 5825.0060        | 1.03            | 5825.0135        | 2.32            | 5824.9906        | -1.62           |
| TN                          | VH    | 5824.9854        | -2.51           | 5825.0174        | 2.99            | 5824.9843        | -2.70           | 5824.9978        | -0.38           |

| Frequency Error vs. Temperature |       |                  |                 |                  |                 |                  |                 |                  |                 |
|---------------------------------|-------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11a:5825MHz                 |       |                  |                 |                  |                 |                  |                 |                  |                 |
| Temp.                           | Volt. | 0 Minute         |                 | 2 Minute         |                 | 5 Minute         |                 | 10 Minute        |                 |
|                                 |       | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| 70                              | VN    | 5825.0235        | 4.04            | 5824.9915        | -1.47           | 5824.9778        | -3.82           | 5824.9791        | -3.59           |
| 60                              | VN    | 5825.0249        | 4.28            | 5825.0121        | 2.08            | 5825.0226        | 3.87            | 5824.9831        | -2.90           |
| 50                              | VN    | 5824.9793        | -3.55           | 5825.0009        | 0.16            | 5824.9932        | -1.17           | 5825.0033        | 0.57            |
| 40                              | VN    | 5824.9916        | -1.45           | 5825.0127        | 2.19            | 5824.9914        | -1.48           | 5825.0007        | 0.12            |
| 30                              | VN    | 5824.9980        | -0.35           | 5824.9913        | -1.49           | 5824.9767        | -4.01           | 5824.9869        | -2.24           |
| 20                              | VN    | 5824.9785        | -3.69           | 5824.9959        | -0.71           | 5824.9811        | -3.25           | 5824.9779        | -3.79           |
| 10                              | VN    | 5825.0091        | 1.56            | 5824.9970        | -0.51           | 5825.0099        | 1.70            | 5824.9775        | -3.86           |
| 0                               | VN    | 5824.9797        | -3.49           | 5825.0073        | 1.25            | 5824.9816        | -3.15           | 5825.0159        | 2.73            |

Note:

1. All antennas and test modes have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 10 TEST ENVIRONMENT.

**END OF REPORT**