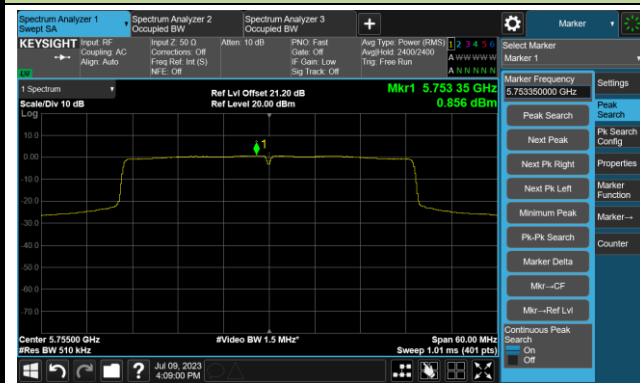| 802.11ax-HE40 Power Spectral Density- Ant 0 | |
|---|---|
| Channel 134 (5670MHz) | Channel 142(5710MHz) |
|  |  |
| Channel 151 (5755MHz) | Channel 159 (5795MHz) |
|  |  |
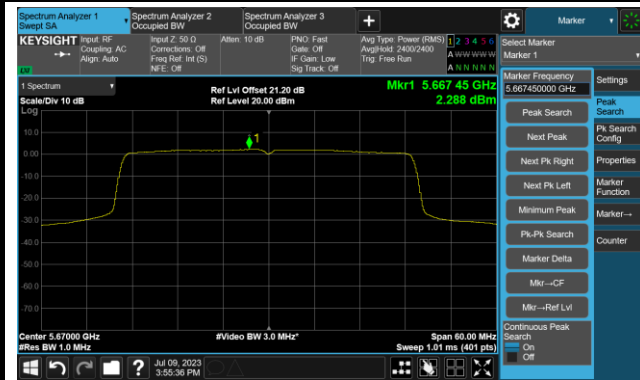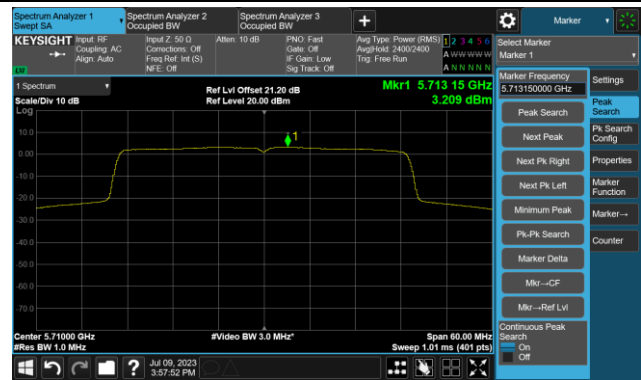
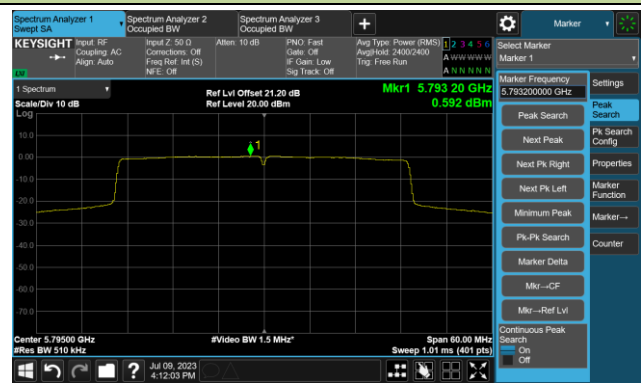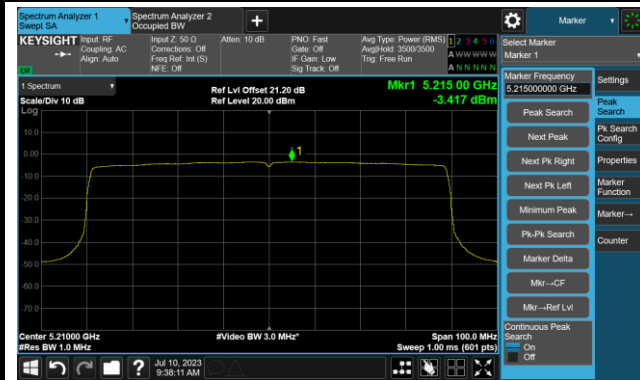## 802.11ax-HE80 Power Spectral Density- Ant 0
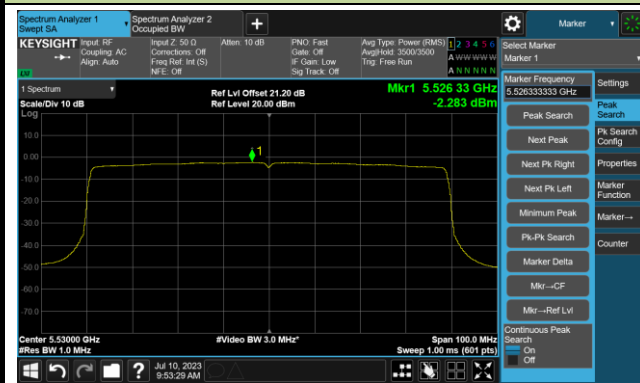
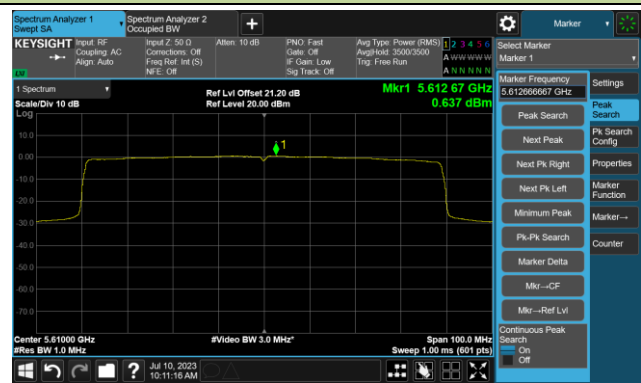### Channel 42 (5210MHz)



### Channel 58 (5290MHz)



### Channel 106 (5530MHz)



### Channel 122 (5610MHz)



### Channel 138 (5690MHz)
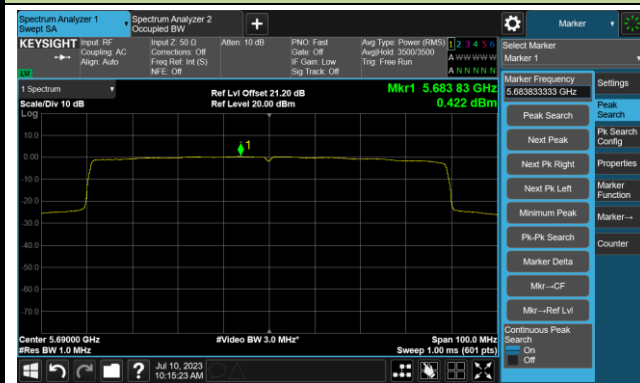


### Channel 155 (5775MHz)
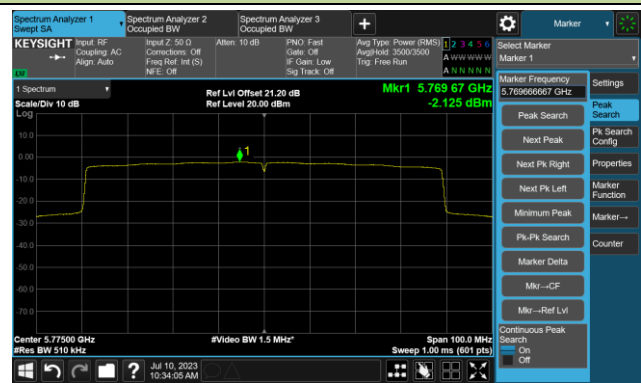
## 802.11a Power Spectral Density- Ant 1
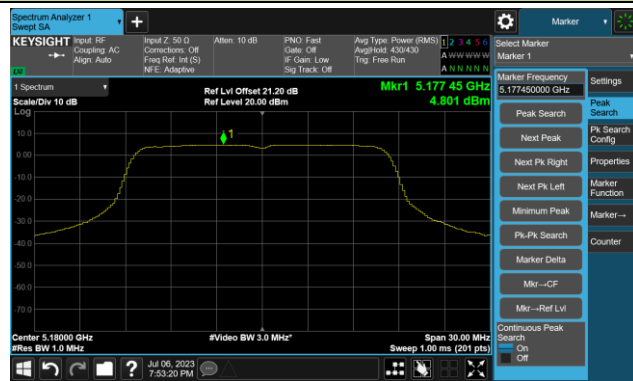
### Channel 36 (5180MHz)



### Channel 44 (5220MHz)
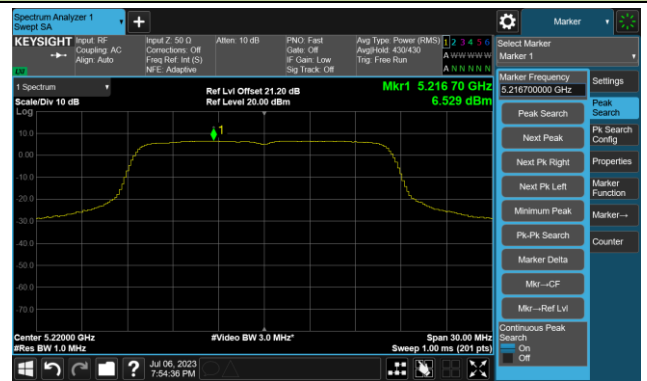


### Channel 48 (5240MHz)
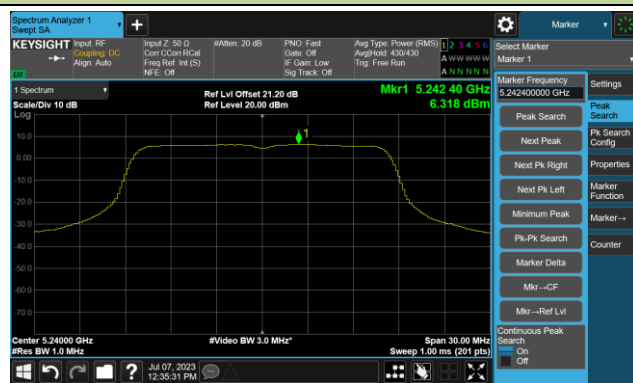


### Channel 52 (5260MHz)
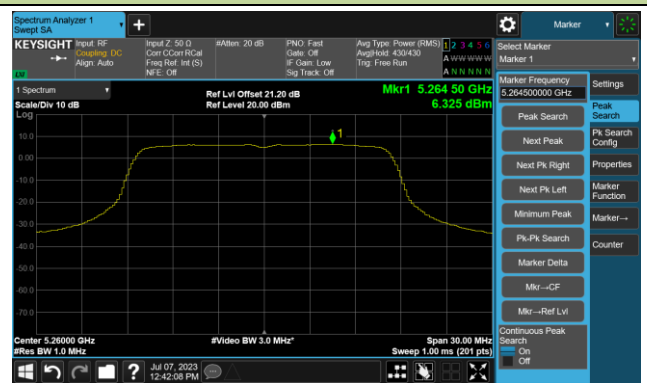


### Channel 60 (5300MHz)
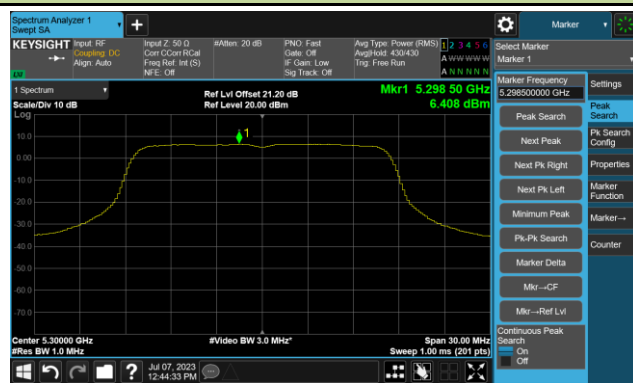


### Channel 64 (5320MHz)

## Channel 100 (5500MHz)



## Channel 116 (5580MHz)



## Channel 140 (5700MHz)



## Channel 144(5720MHz)



## Channel 149 (5745MHz)



## Channel 157 (5785MHz)
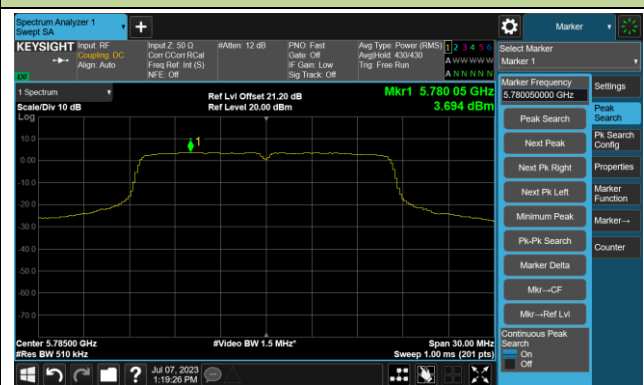
| 802.11a Power Spectral Density- Ant 1 |
|---|

| Channel 165 (5825MHz) | |
|---|---|
|  | |

## 802.11ac-VHT20 Power Spectral Density- Ant 1

### Channel 36 (5180MHz)



### Channel 44 (5220MHz)



### Channel 48 (5240MHz)
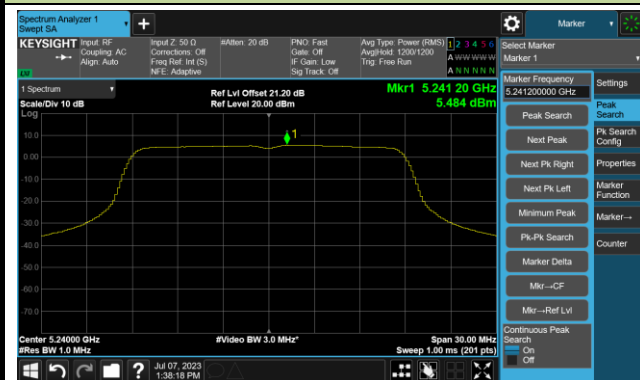


### Channel 52 (5260MHz)
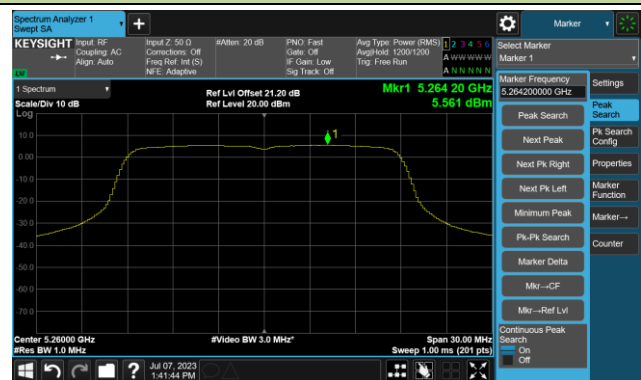


### Channel 60 (5300MHz)



### Channel 64 (5320MHz)
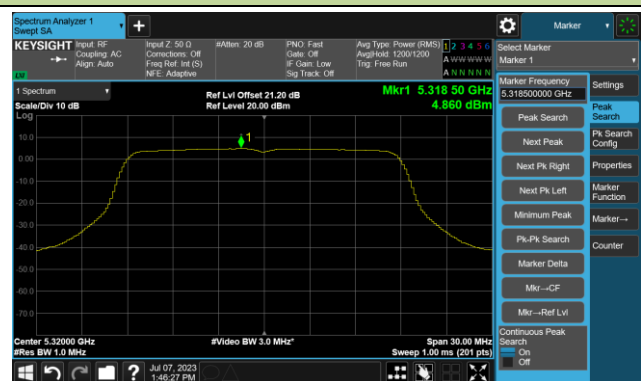
## 802.11ac-VHT20 Power Spectral Density- Ant 1
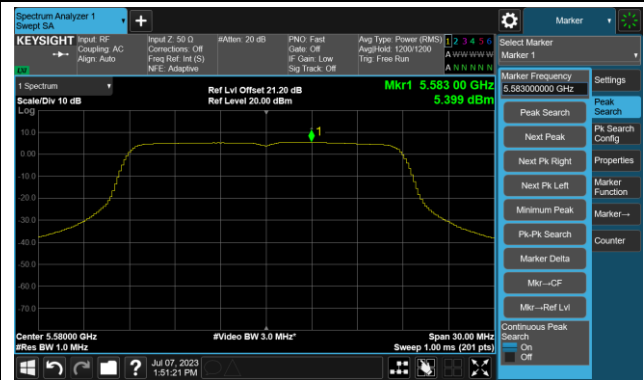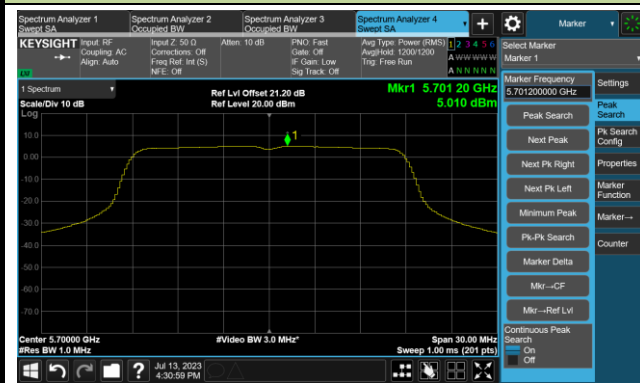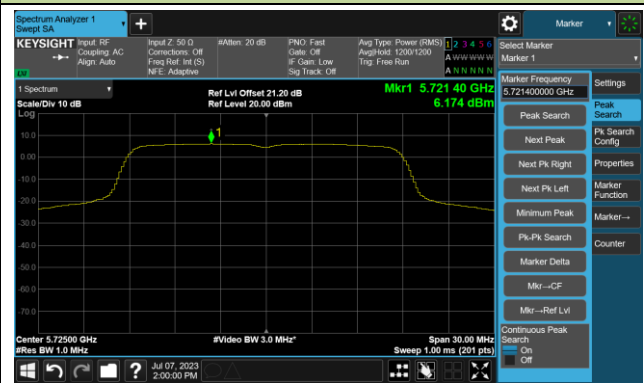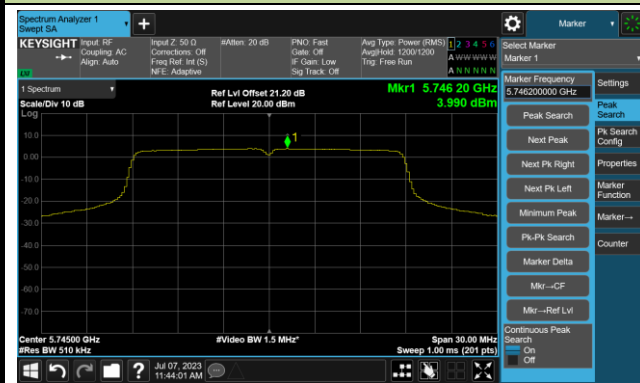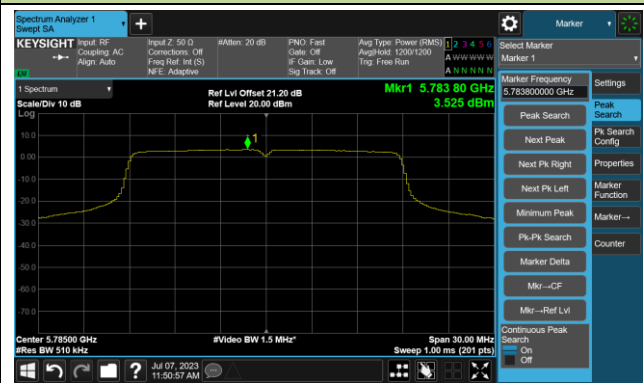
| Channel 100 (5500MHz) | Channel 116 (5580MHz) |
|---|---|
|  |  |

| Channel 140 (5700MHz) | Channel 144(5720MHz) |
|---|---|
|  |  |

| Channel 149 (5745MHz) | Channel 157 (5785MHz) |
|---|---|
|  |  |

| 802.11ac-VHT20 Power Spectral Density- Ant 1 |  |
|---|---|
| Channel 165 (5825MHz) | |
|  | |
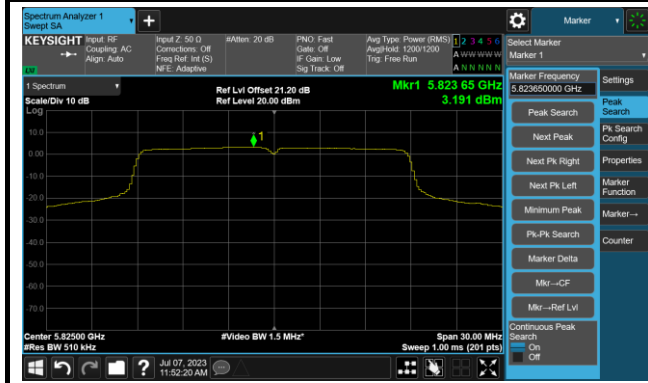
## 802.11ac-VHT40 Power Spectral Density- Ant 1
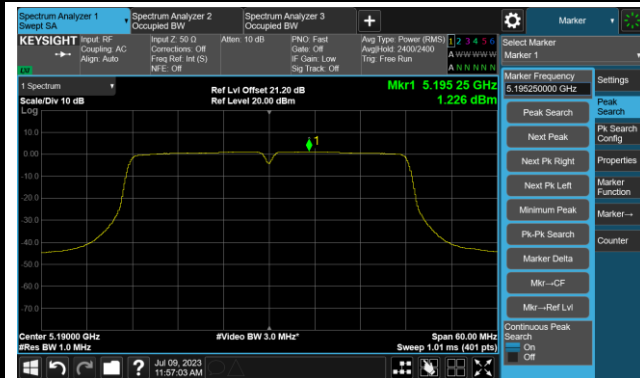
### Channel 38 (5190MHz)



### Channel 46 (5230MHz)
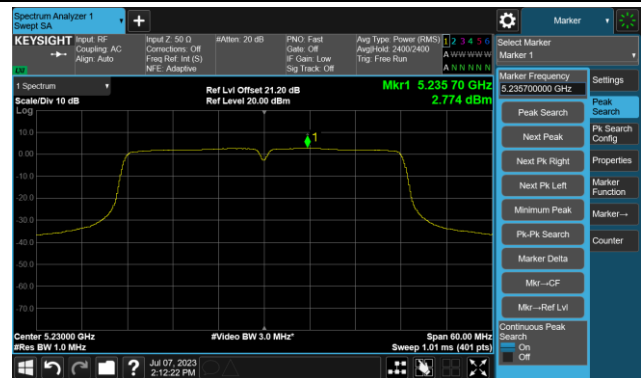


### Channel 54 (5270MHz)
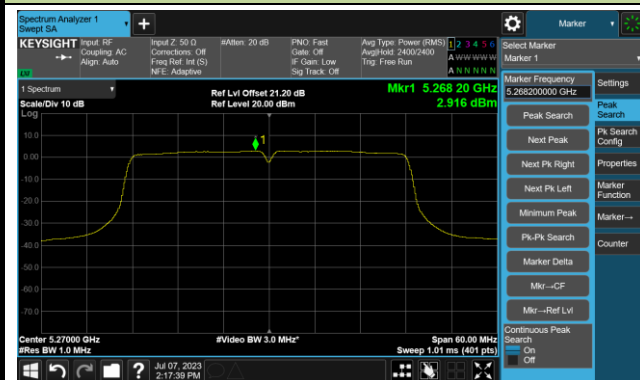


### Channel 62 (5310MHz)
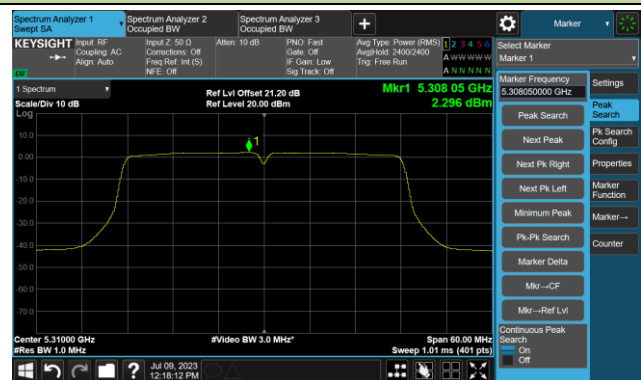


### Channel 102 (5510MHz)
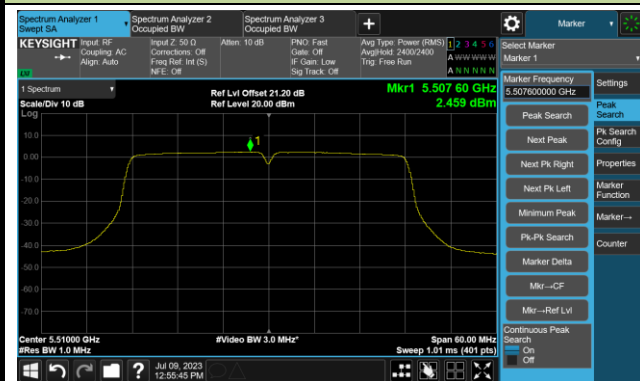


### Channel 110 (5550MHz)
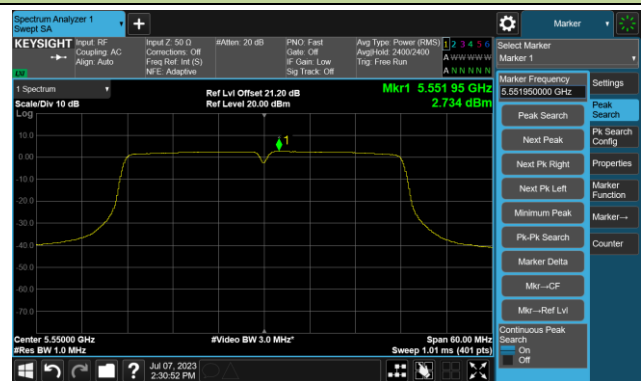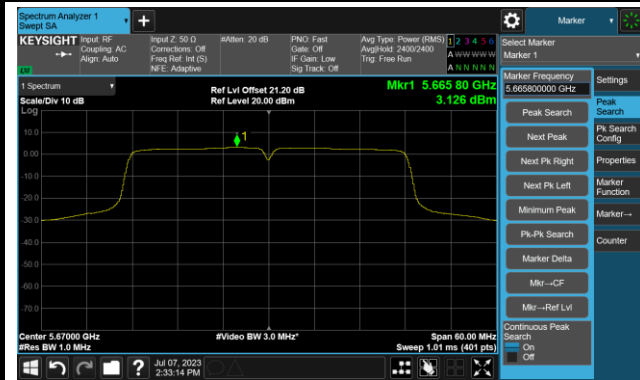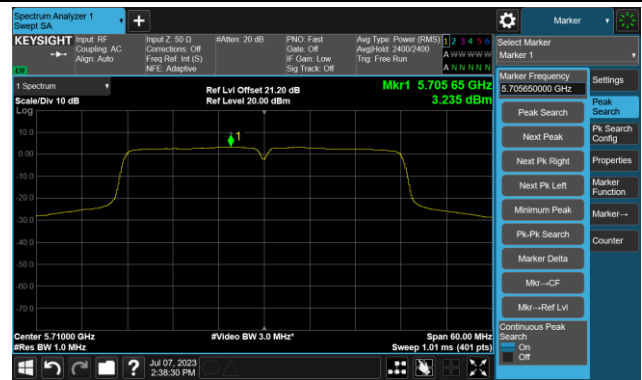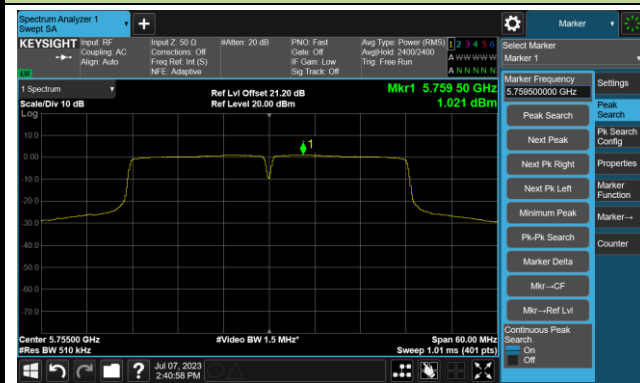
| 802.11ac-VHT40 Power Spectral Density- Ant 1 | |
|---|---|
| **Channel 134 (5670MHz)** | **Channel 142(5710MHz)** |
|  |  |
| **Channel 151 (5755MHz)** | **Channel 159 (5795MHz)** |
|  |  |

## 802.11ac-VHT80 Power Spectral Density- Ant 1
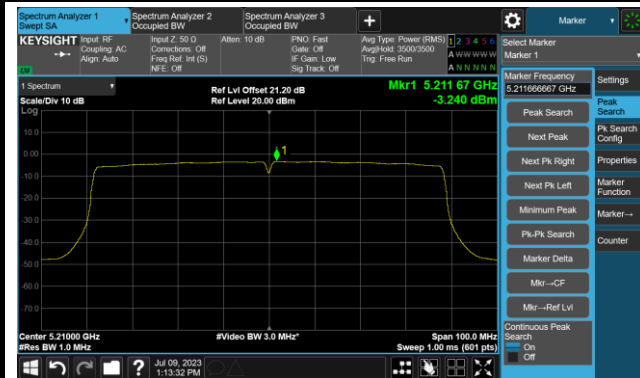
### Channel 42 (5210MHz)



### Channel 58 (5290MHz)
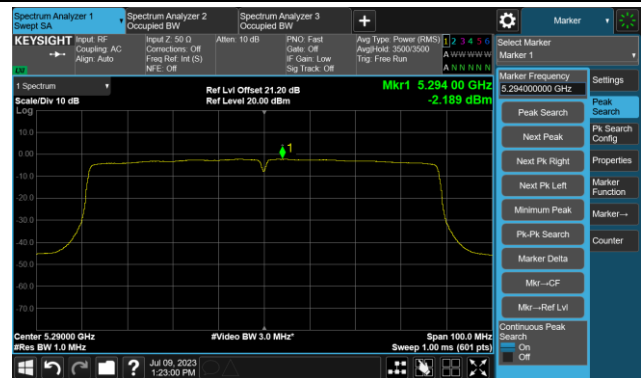


### Channel 106 (5530MHz)
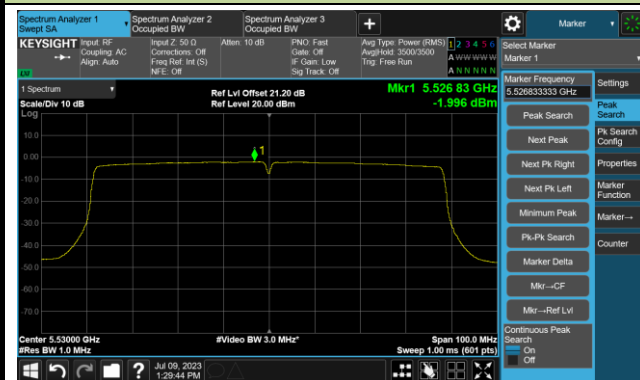


### Channel 122 (5610MHz)
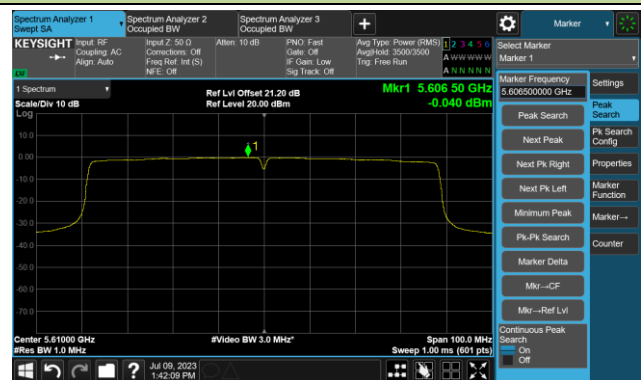


### Channel 138 (5690MHz)
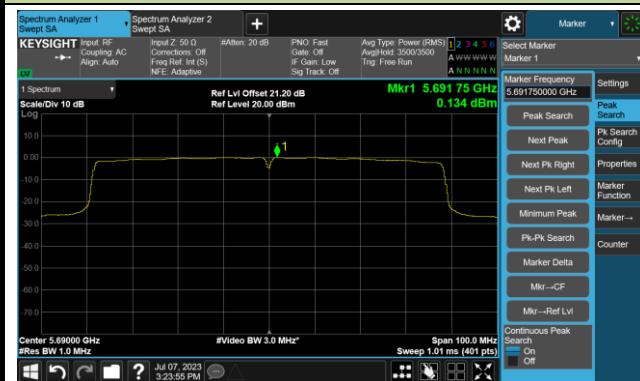


### Channel 155 (5775MHz)
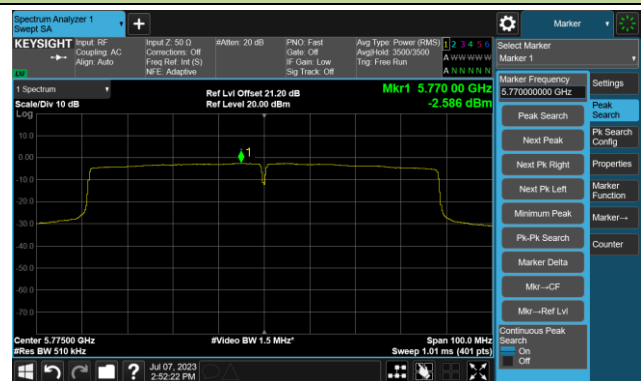
## 802.11ax-HE20 Power Spectral Density- Ant 1
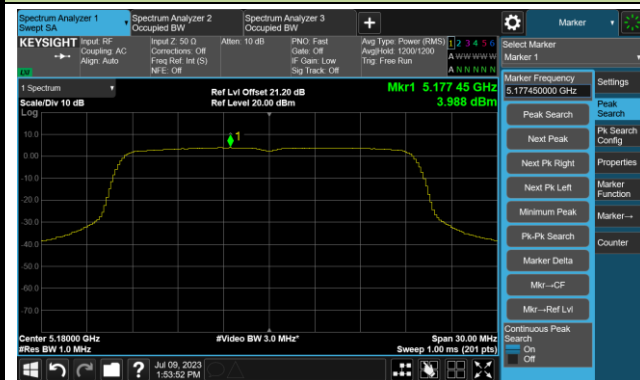
### Channel 36 (5180MHz)



### Channel 44 (5220MHz)
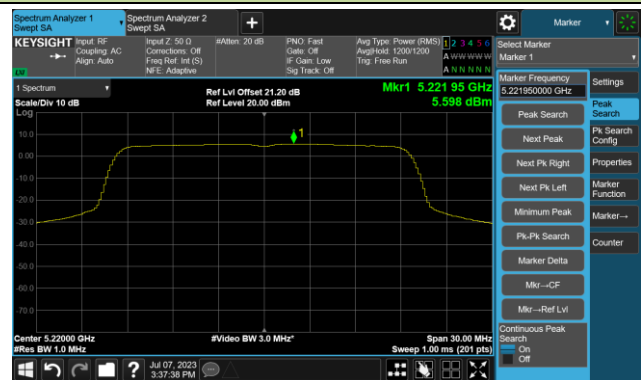


### Channel 48 (5240MHz)
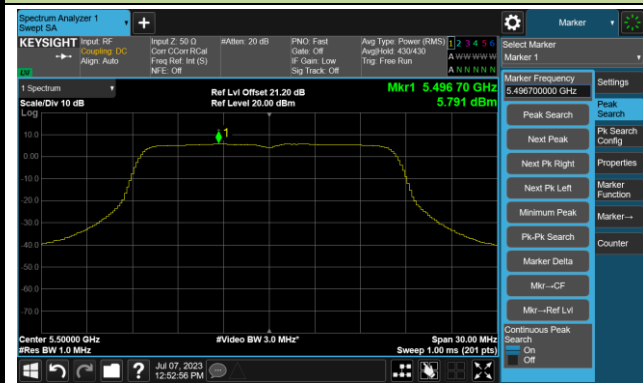

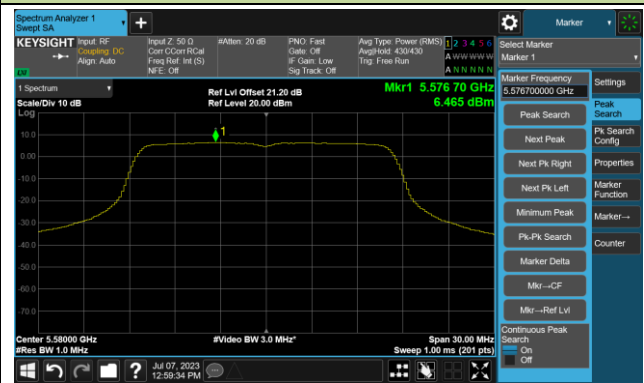
### Channel 52 (5260MHz)
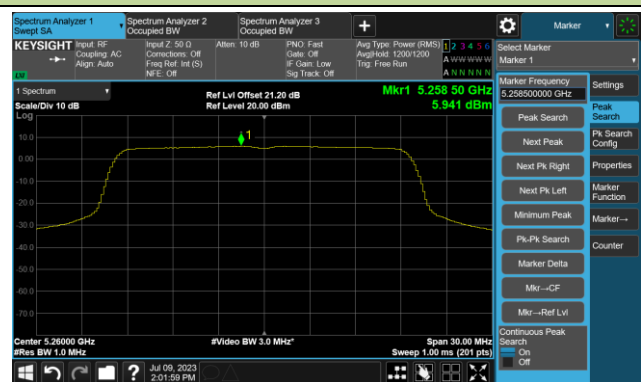


### Channel 60 (5300MHz)
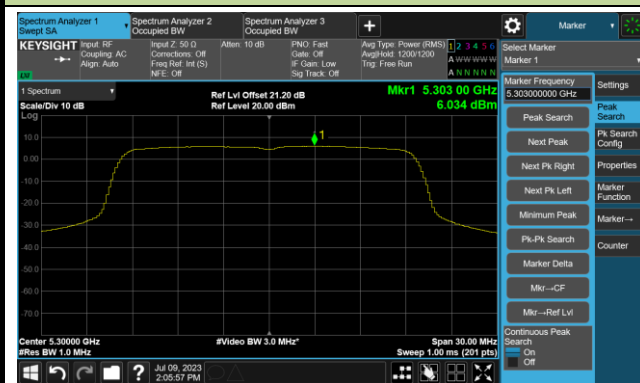


### Channel 64 (5320MHz)
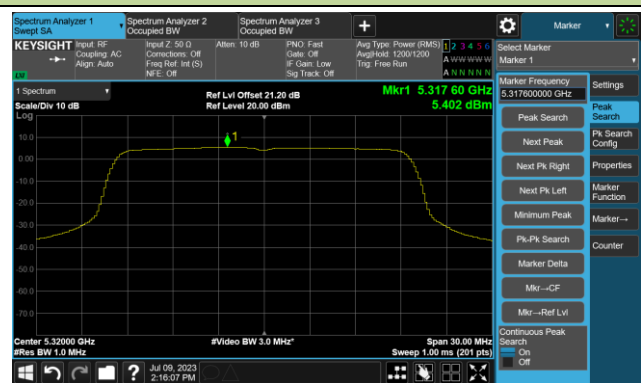
## 802.11ax-HE20 Power Spectral Density- Ant 1
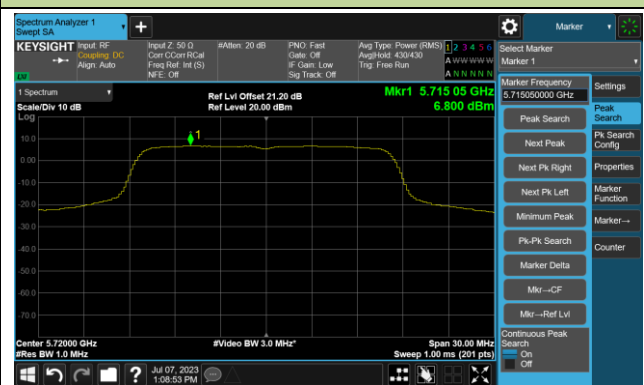
### Channel 100 (5500MHz)



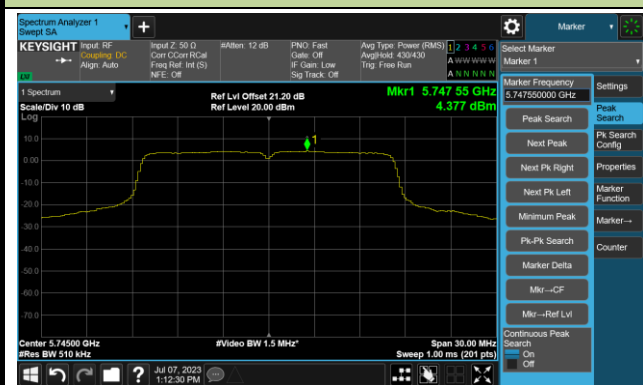### Channel 116 (5580MHz)
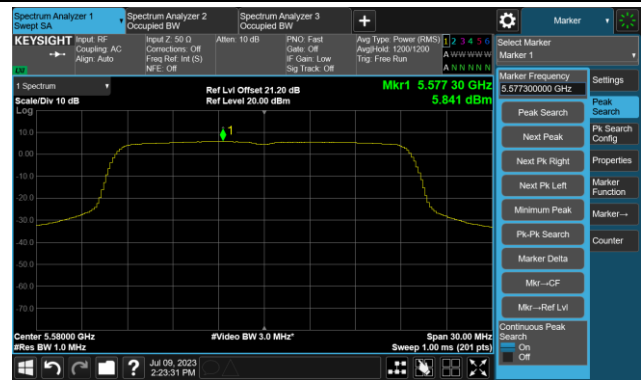


### Channel 140 (5700MHz)
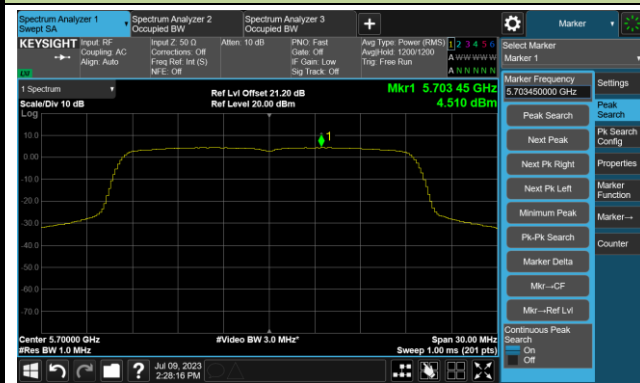


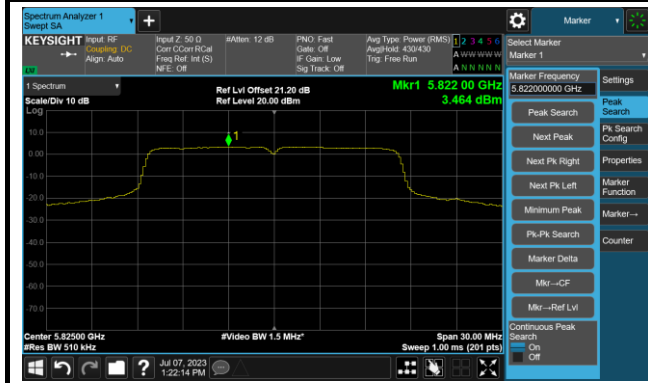### Channel 144(5720MHz)
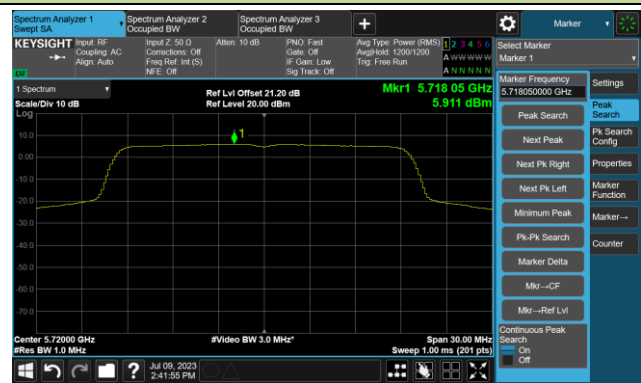


### Channel 149 (5745MHz)
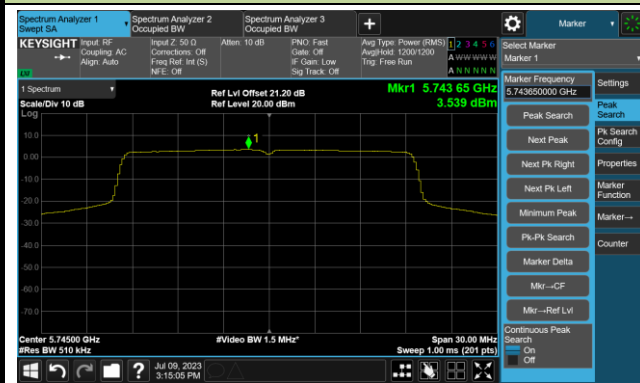


### Channel 157 (5785MHz)

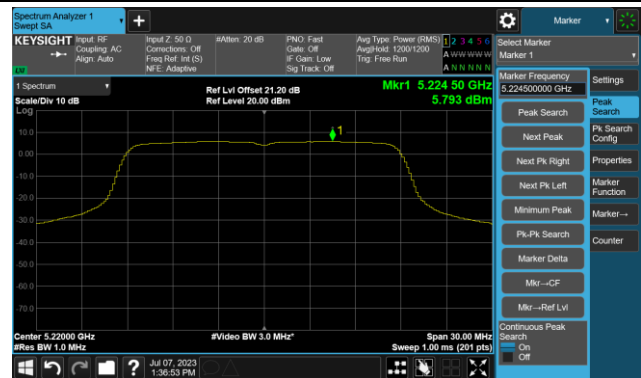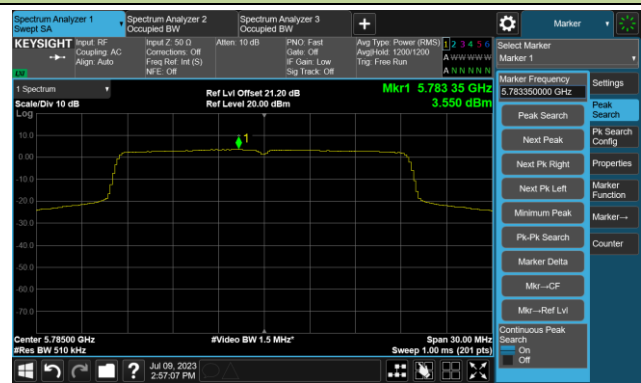| 802.11ax-HE20 Power Spectral Density- Ant 1 | |
|---|---|
| Channel 165 (5825MHz) | |
|  | |

## 802.11ax-HE40 Power Spectral Density- Ant 1
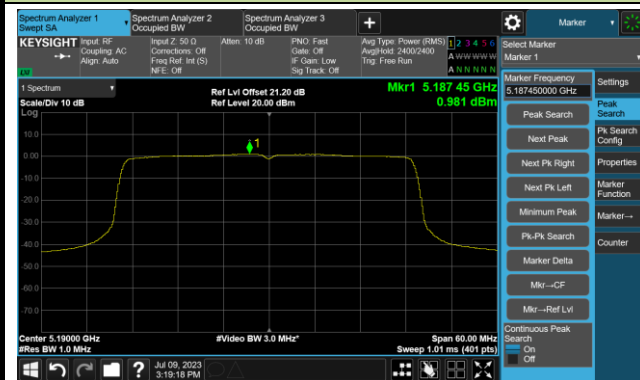
### Channel 38 (5190MHz)



### Channel 46 (5230MHz)
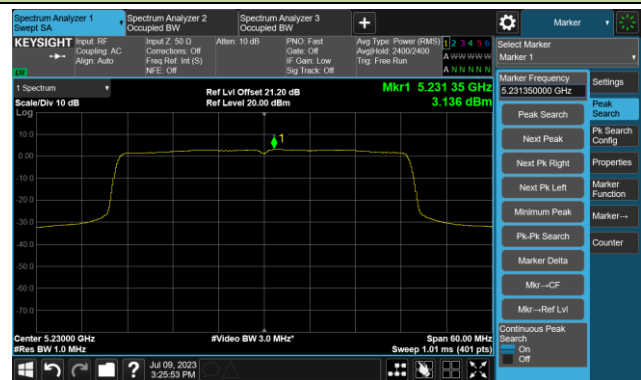


### Channel 54 (5270MHz)
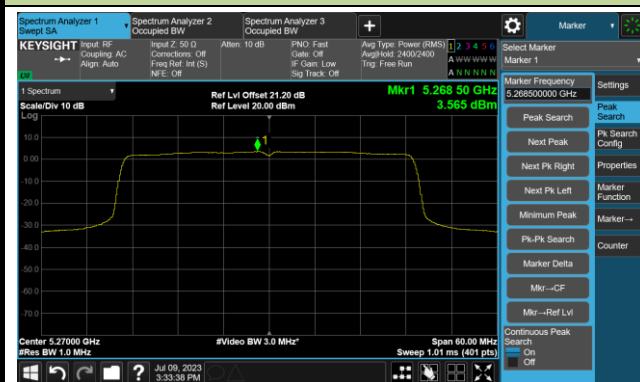


### Channel 62 (5310MHz)
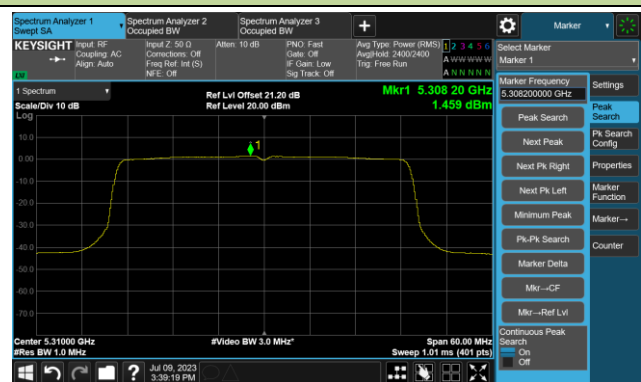


### Channel 102 (5510MHz)
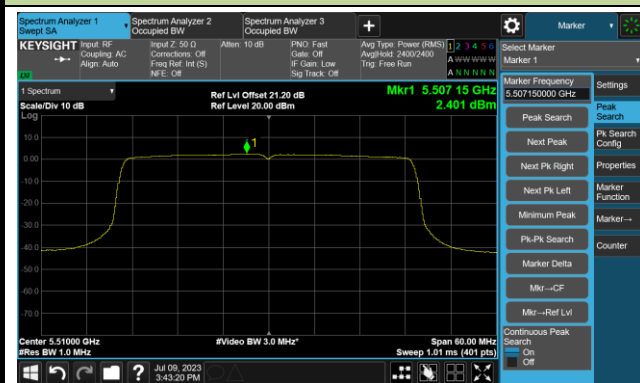


### Channel 110 (5550MHz)
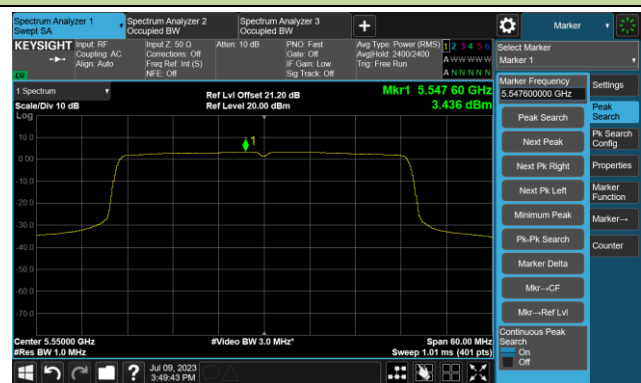
| 802.11ax-HE40 Power Spectral Density- Ant 1 ||
|---|---|
| **Channel 134 (5670MHz)** | **Channel 142(5710MHz)** |
|  |  |
| **Channel 151 (5755MHz)** | **Channel 159 (5795MHz)** |
|  |  |
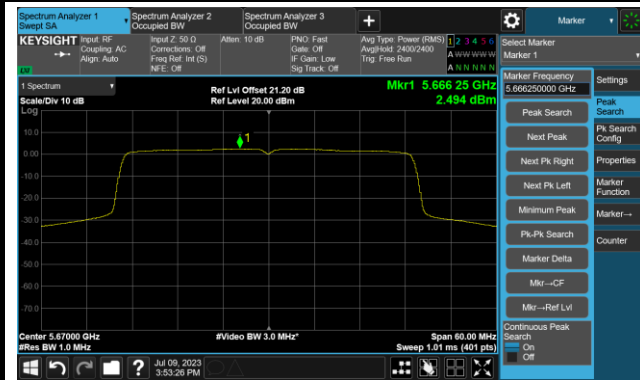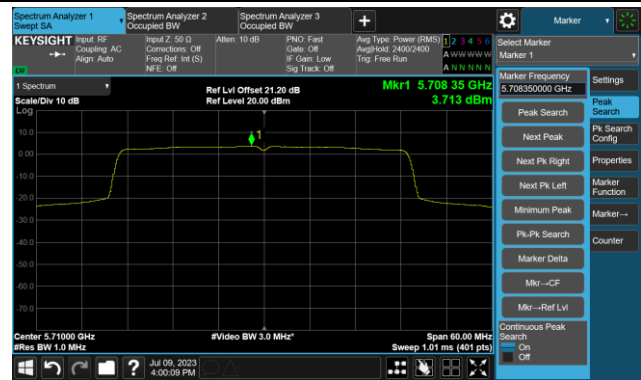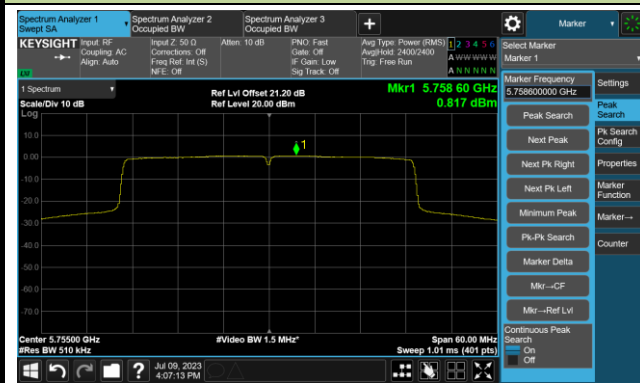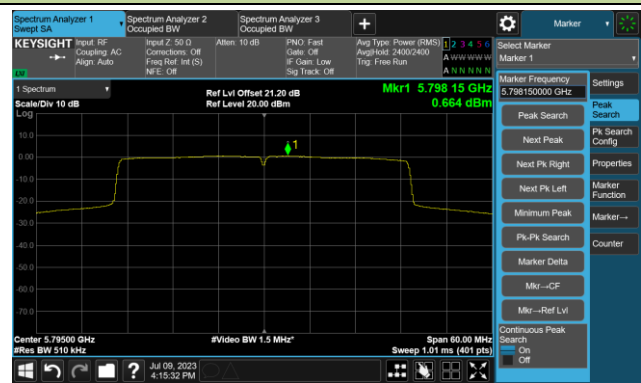
## 802.11ax-HE80 Power Spectral Density- Ant 1
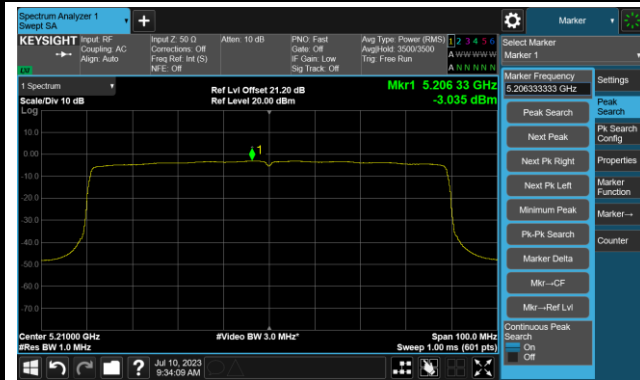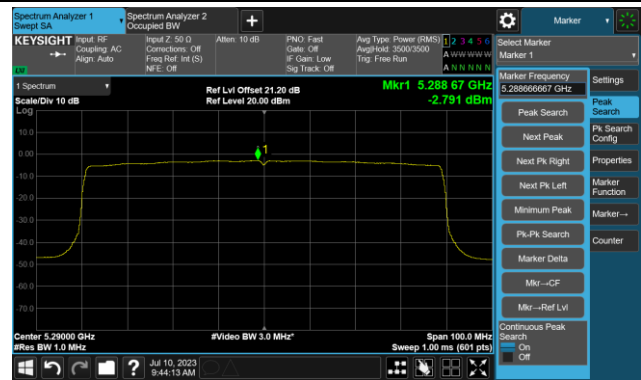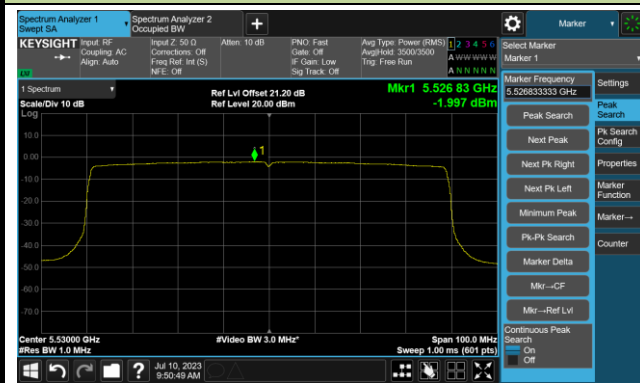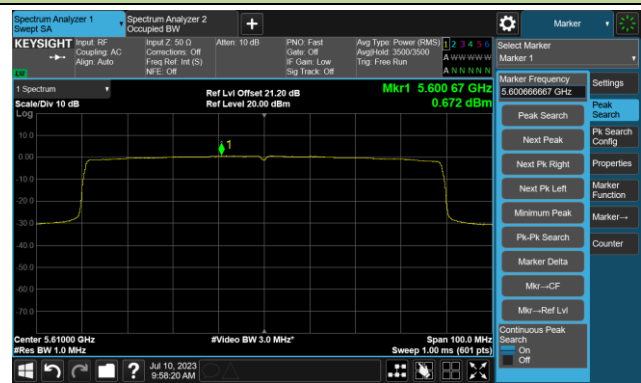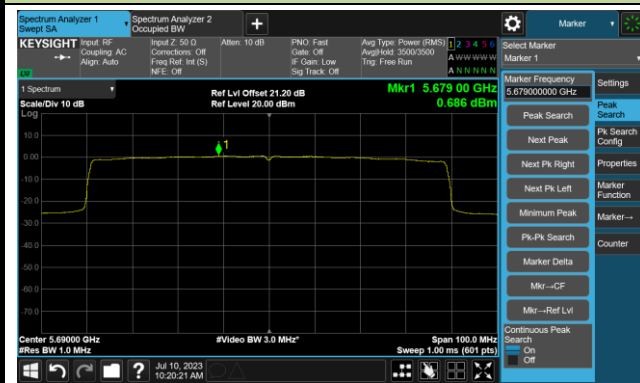
| Channel 42 (5210MHz) | Channel 58 (5290MHz) |
|---|---|



| Channel 106 (5530MHz) | Channel 122 (5610MHz) |
|---|---|



| Channel 138 (5690MHz) | Channel 155 (5775MHz) |
|---|---|
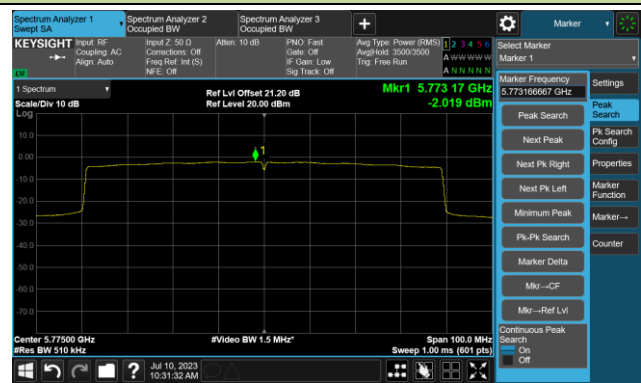
### A.6 Frequency Stability Test Result

| Test Site | WZ-TR3 | Test Engineer | Liz Yuan |
|---|---|---|---|
| Test Date | 2023-07-19~2023-07-20 | Test Mode | 5180MHz (Carrier Mode) |

| Voltage | Power | Temp | Frequency Tolerance (ppm) | | | |
|---|---|---|---|---|---|---|
| (%) | (VAC) | (°C) | 0 minutes | 2 minutes | 5 minutes | 10 minutes |
| 100 | 120 | - 30 | 19.01 | 19.01 | 19.01 | 19.01 |
| | | - 20 | 19.49 | 19.54 | 19.54 | 19.54 |
| | | - 10 | 14.99 | 16.32 | 16.67 | 16.90 |
| | | 0 | 8.54 | 8.59 | 8.68 | 8.73 |
| | | + 10 | 40.33 | 40.47 | 40.57 | 40.66 |
| | | + 20 | 1.59 | 1.69 | 1.74 | 1.79 |
| | | + 30 | -0.97 | -0.39 | -0.39 | -0.39 |
| | | + 40 | -4.92 | -4.63 | -4.53 | -4.20 |
| | | + 50 | -4.60 | -5.09 | -5.11 | -5.11 |
| 115 | 138 | + 20 | 17.41 | 17.27 | 17.13 | 17.03 |
| 85 | 102 | + 20 | 16.93 | 16.88 | 16.79 | 16.74 |

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} $*10^6$.

### A.7 Radiated Spurious Emission Test Result

**AP-ANT-311**

| Test Site | WZ-AC2 | Test Engineer | Bob Zhang |
|---|---|---|---|
| Test Date | 2023-07-28 | Test Mode | 802.11a – Channel 36 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 10401.0 | 31.8 | 14.9 | 46.7 | 68.2 | -21.5 | Peak | Horizontal |
|  | 11072.5 | 30.8 | 16.4 | 47.2 | 74.0 | -26.8 | Peak | Horizontal |
|  | 12254.0 | 31.5 | 17.5 | 49.0 | 74.0 | -25.0 | Peak | Horizontal |
| * | 13605.5 | 31.5 | 18.6 | 50.1 | 68.2 | -18.1 | Peak | Horizontal |
| * | 10358.5 | 37.0 | 14.9 | 51.9 | 68.2 | -16.3 | Peak | Vertical |
|  | 11480.5 | 31.4 | 17.5 | 48.9 | 74.0 | -25.1 | Peak | Vertical |
|  | 11897.0 | 29.4 | 17.3 | 46.7 | 74.0 | -27.3 | Peak | Vertical |
| * | 13911.5 | 29.9 | 18.2 | 48.1 | 68.2 | -20.1 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Test Site | WZ-AC2 | | Test Engineer | Bob Zhang |
|---|---|---|---|---|
| Test Date | 2023-07-28 | | Test Mode | 802.11a – Channel 44 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit. | | | |
| | 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB/m) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 10265.0 | 31.8 | 14.4 | 46.2 | 68.2 | -22.0 | Peak | Horizontal |
| | 11650.5 | 31.3 | 17.8 | 49.1 | 74.0 | -24.9 | Peak | Horizontal |
| | 12441.0 | 29.9 | 16.6 | 46.5 | 74.0 | -27.5 | Peak | Horizontal |
| * | 13792.5 | 29.7 | 18.5 | 48.2 | 68.2 | -20.0 | Peak | Horizontal |
| * | 10443.5 | 37.0 | 15.3 | 52.3 | 68.2 | -15.9 | Peak | Vertical |
| | 11174.5 | 30.4 | 16.9 | 47.3 | 74.0 | -26.7 | Peak | Vertical |
| | 11523.0 | 32.3 | 17.1 | 49.4 | 74.0 | -24.6 | Peak | Vertical |
| * | 14107.0 | 31.3 | 19.2 | 50.5 | 68.2 | -17.7 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Test Site | WZ-AC2 | | Test Engineer | Bob Zhang |
|---|---|---|---|---|
| Test Date | 2023-07-28 | | Test Mode | 802.11a – Channel 48 |
| Remark | 1.  Average measurement was not performed if peak level lower than average limit. | | | |
| | 2.  Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB/m) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 11557.0 | 31.5 | 17.8 | 49.3 | 74.0 | -24.7 | Peak | Horizontal |
| * | 13631.0 | 31.6 | 19.0 | 50.6 | 68.2 | -17.6 | Peak | Horizontal |
| * | 14132.5 | 30.9 | 19.3 | 50.2 | 68.2 | -18.0 | Peak | Horizontal |
| | 15603.0 | 30.3 | 17.8 | 48.1 | 74.0 | -25.9 | Peak | Horizontal |
| * | 9993.0 | 31.8 | 13.6 | 45.4 | 68.2 | -22.8 | Peak | Vertical |
| | 11259.5 | 31.6 | 17.0 | 48.6 | 74.0 | -25.4 | Peak | Vertical |
| | 12109.5 | 30.0 | 16.8 | 46.8 | 74.0 | -27.2 | Peak | Vertical |
| * | 13852.0 | 30.2 | 18.7 | 48.9 | 68.2 | -19.3 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Test Site | WZ-AC2 | | Test Engineer | Bob Zhang |
|---|---|---|---|---|
| Test Date | 2023-07-28 | | Test Mode | 802.11a – Channel 52 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB/m) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 11106.5 | 32.2 | 16.6 | 48.8 | 74.0 | -25.2 | Peak | Horizontal |
| | 11531.5 | 30.7 | 17.3 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| * | 14064.5 | 32.4 | 19.1 | 51.5 | 68.2 | -16.7 | Peak | Horizontal |
| * | 14863.5 | 31.6 | 19.9 | 51.5 | 68.2 | -16.7 | Peak | Horizontal |
| * | 10528.5 | 34.8 | 15.1 | 49.9 | 68.2 | -18.3 | Peak | Vertical |
| | 11327.5 | 30.7 | 17.3 | 48.0 | 74.0 | -26.0 | Peak | Vertical |
| | 11914.0 | 32.2 | 17.2 | 49.4 | 74.0 | -24.6 | Peak | Vertical |
| * | 13733.0 | 30.2 | 18.7 | 48.9 | 68.2 | -19.3 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Test Site | WZ-AC2 | | Test Engineer | Bob Zhang |
|---|---|---|---|---|
| Test Date | 2023-07-28 | | Test Mode | 802.11a – Channel 60 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB/m) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 9772.0 | 31.8 | 13.4 | 45.2 | 68.2 | -23.0 | Peak | Horizontal |
| * | 10171.5 | 31.8 | 14.0 | 45.8 | 68.2 | -22.4 | Peak | Horizontal |
| | 11531.5 | 30.1 | 17.3 | 47.4 | 74.0 | -26.6 | Peak | Horizontal |
| | 12007.5 | 30.3 | 16.8 | 47.1 | 74.0 | -26.9 | Peak | Horizontal |
| * | 10171.5 | 32.0 | 14.0 | 46.0 | 68.2 | -22.2 | Peak | Vertical |
| | 11480.5 | 31.5 | 17.5 | 49.0 | 74.0 | -25.0 | Peak | Vertical |
| | 12220.0 | 31.6 | 17.4 | 49.0 | 74.0 | -25.0 | Peak | Vertical |
| * | 14234.5 | 30.9 | 19.3 | 50.2 | 68.2 | -18.0 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Test Site | WZ-AC2 | | Test Engineer | Bob Zhang |
|---|---|---|---|---|
| Test Date | 2023-07-28 | | Test Mode | 802.11a – Channel 64 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB/m) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB/m) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 9993.0 | 31.1 | 13.6 | 44.7 | 68.2 | -23.5 | Peak | Horizontal |
| * | 10537.0 | 31.7 | 15.0 | 46.7 | 68.2 | -21.5 | Peak | Horizontal |
| | 11081.0 | 32.5 | 16.6 | 49.1 | 74.0 | -24.9 | Peak | Horizontal |
| | 11557.0 | 32.4 | 17.8 | 50.2 | 74.0 | -23.8 | Peak | Horizontal |
| | 11166.0 | 32.3 | 16.9 | 49.2 | 74.0 | -24.8 | Peak | Vertical |
| | 11557.0 | 31.7 | 17.8 | 49.5 | 74.0 | -24.5 | Peak | Vertical |
| * | 13537.5 | 30.6 | 19.0 | 49.6 | 68.2 | -18.6 | Peak | Vertical |
| * | 14098.5 | 29.6 | 19.1 | 48.7 | 68.2 | -19.5 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Test Site | WZ-AC2 | Test Engineer | Bob Zhang |
|---|---|---|---|
| Test Date | 2023-07-28 | Test Mode | 802.11a – Channel 100 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB/m) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 11004.5 | 35.0 | 16.4 | 51.4 | 74.0 | -22.6 | Peak | Horizontal |
| | 11004.5 | 29.3 | 16.4 | 45.7 | 54.0 | -8.3 | AV | Horizontal |
| | 12305.0 | 32.5 | 17.6 | 50.1 | 74.0 | -23.9 | Peak | Horizontal |
| * | 13648.0 | 31.6 | 19.0 | 50.6 | 68.2 | -17.6 | Peak | Horizontal |
| * | 14141.0 | 31.5 | 19.3 | 50.8 | 68.2 | -17.4 | Peak | Horizontal |
| * | 9899.5 | 32.2 | 13.5 | 45.7 | 68.2 | -22.5 | Peak | Vertical |
| | 10996.0 | 34.5 | 16.3 | 50.8 | 74.0 | -23.2 | Peak | Vertical |
| | 12194.5 | 30.2 | 17.7 | 47.9 | 74.0 | -26.1 | Peak | Vertical |
| * | 13792.5 | 30.4 | 18.5 | 48.9 | 68.2 | -19.3 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)