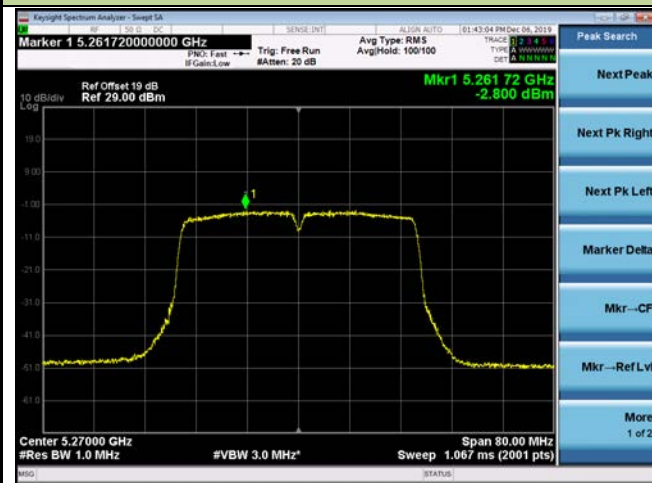
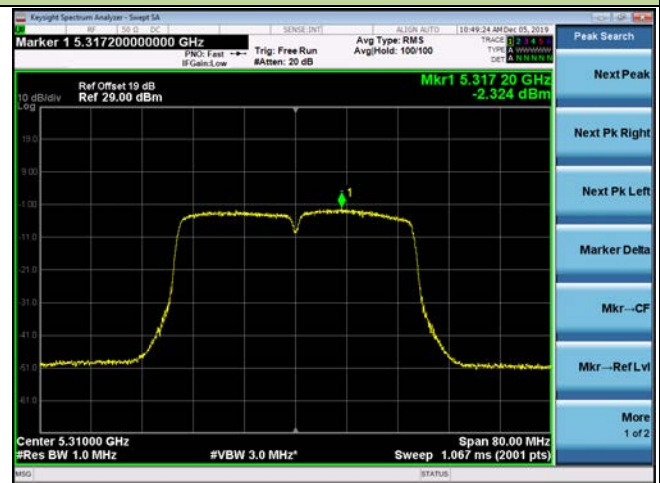


## 802.11n-HT40 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3

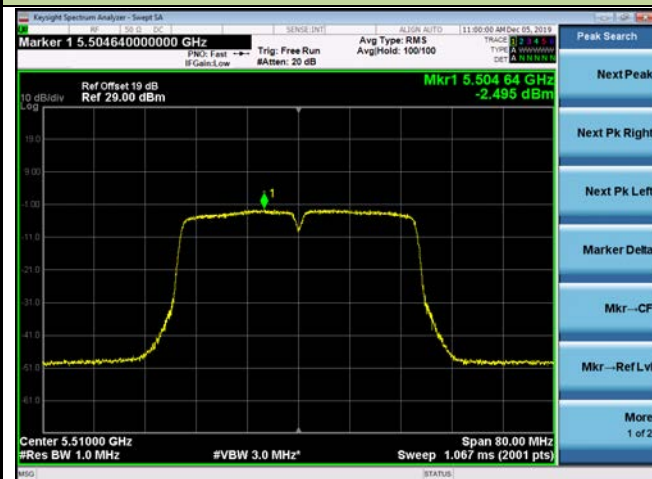
Channel 54 (5270MHz)



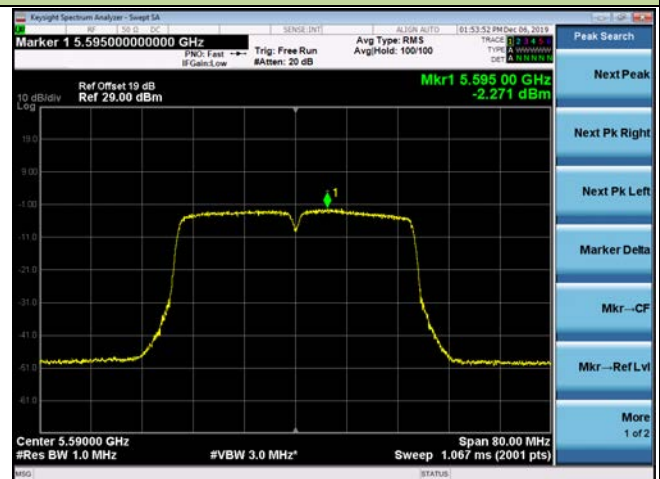
Channel 62 (5310MHz)



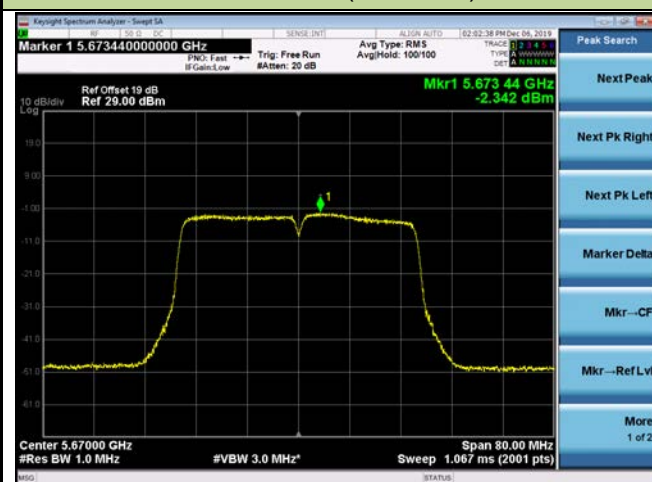
Channel 102 (5510MHz)



Channel 118 (5590MHz)



Channel 134 (5670MHz)

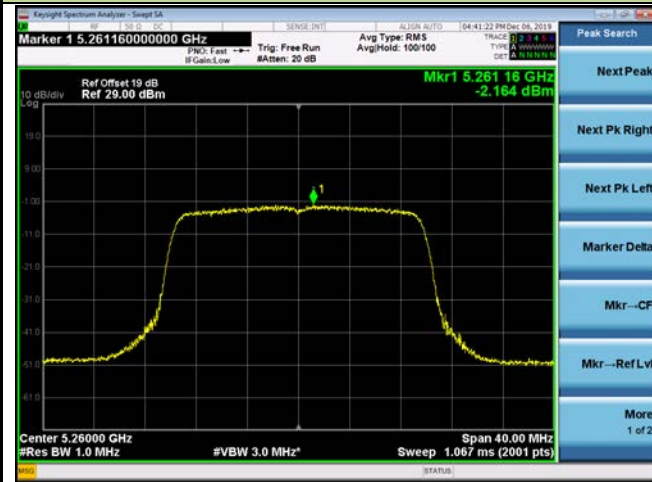


Channel 142 (5710MHz)



## 802.11ax-HE20 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3

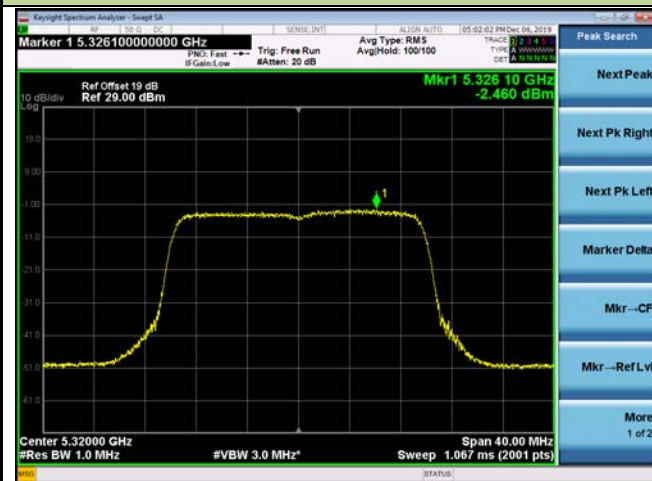
Channel 52 (5260MHz)



Channel 60 (5300MHz)



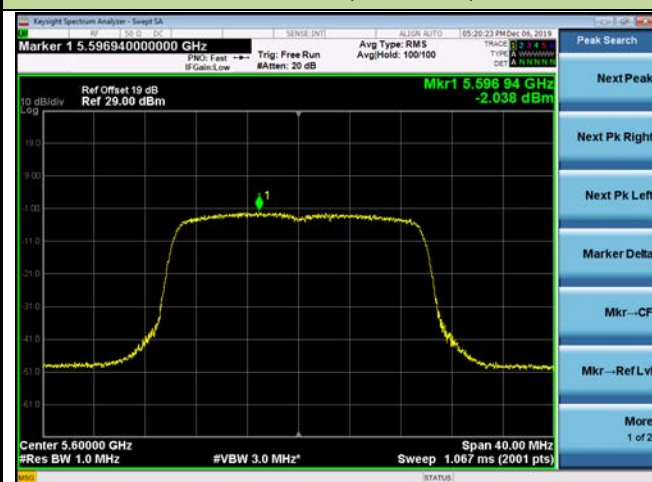
Channel 64 (5320MHz)



Channel 100 (5500MHz)

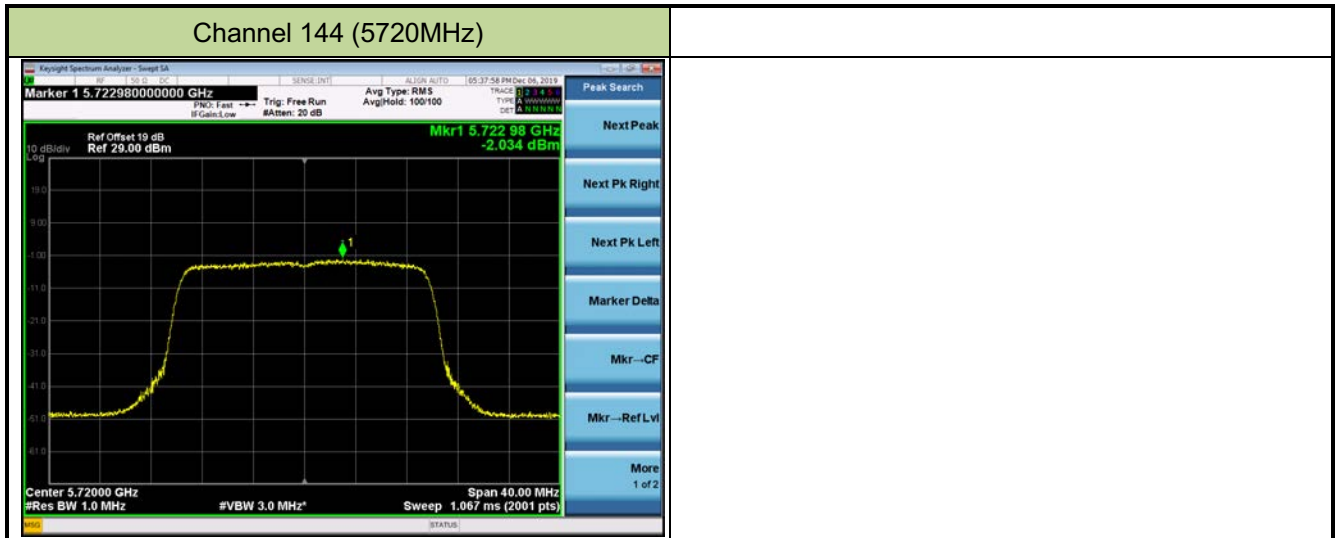


Channel 120 (5600MHz)



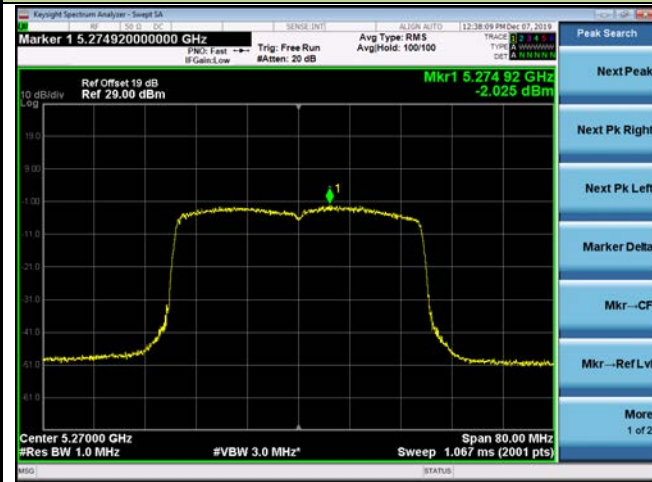
Channel 140 (5700MHz)





## 802.11ax-HE40 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3

Channel 54 (5270MHz)



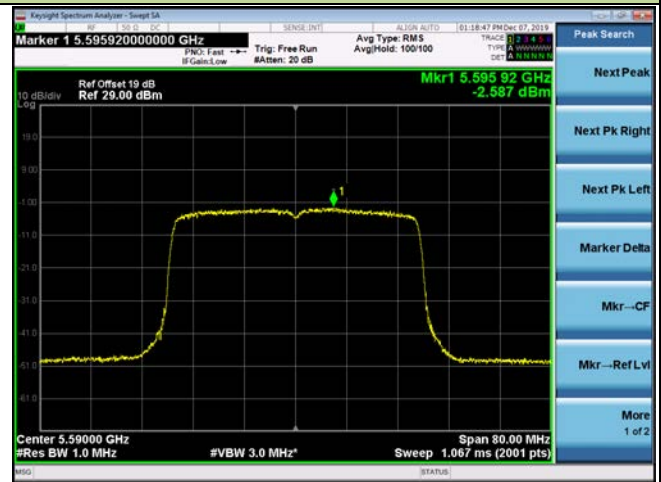
Channel 62 (5310MHz)



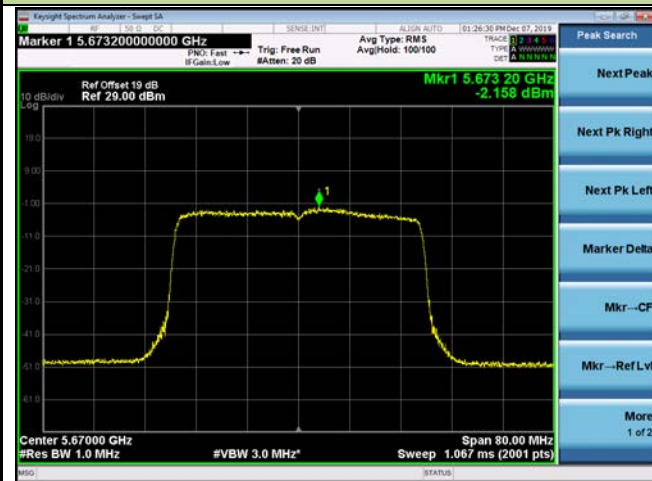
Channel 102 (5510MHz)



Channel 118 (5590MHz)



Channel 134 (5670MHz)

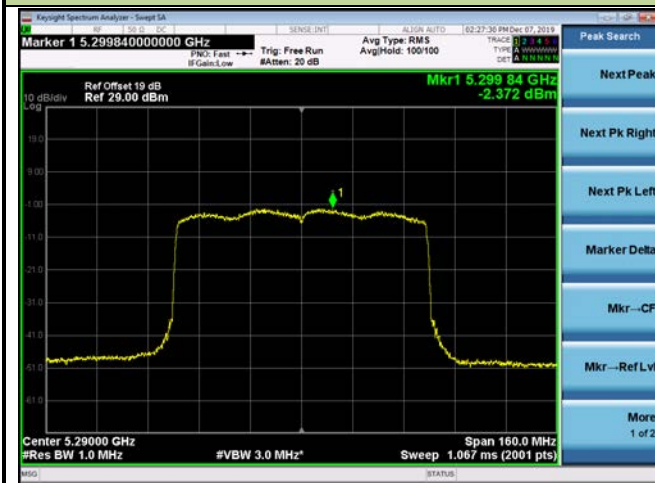


Channel 142 (5710MHz)



## 802.11ax-HE80 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3

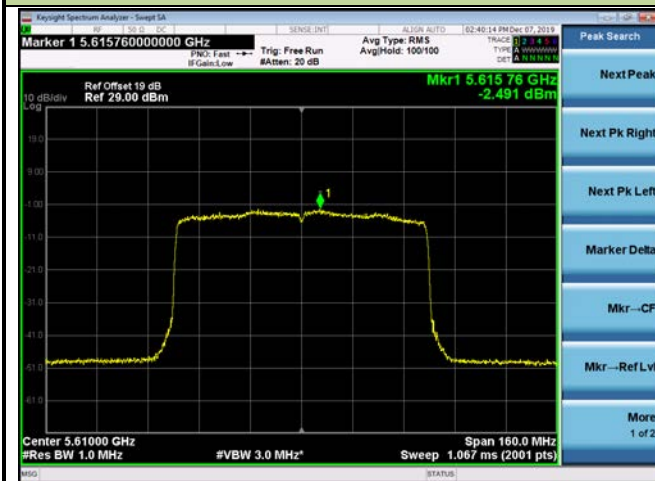
Channel 58 (5290MHz)



Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)

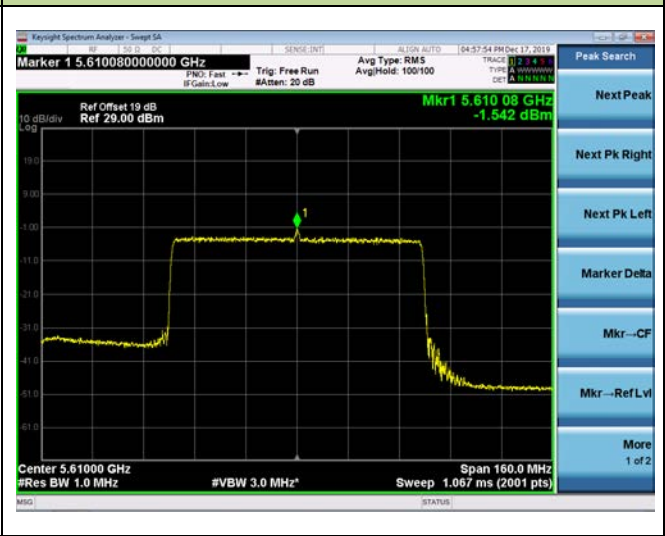


## 802.11ax-HE80 + 80 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3

Channel 58 (5290MHz)

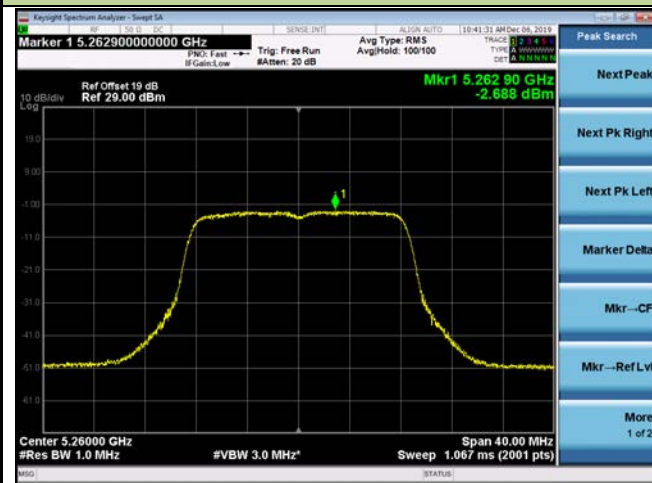


Channel 122 (5610MHz)

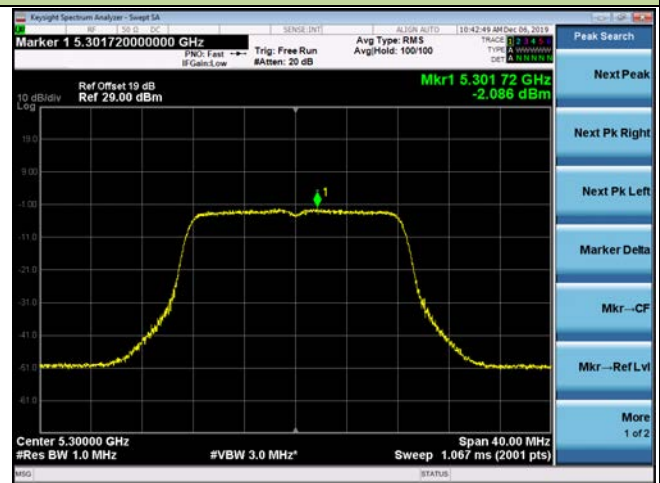


## 802.11a Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

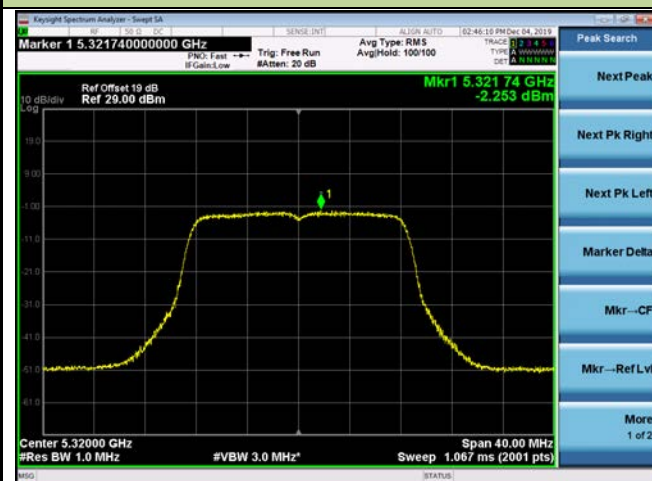
Channel 52 (5260MHz)



Channel 60 (5300MHz)



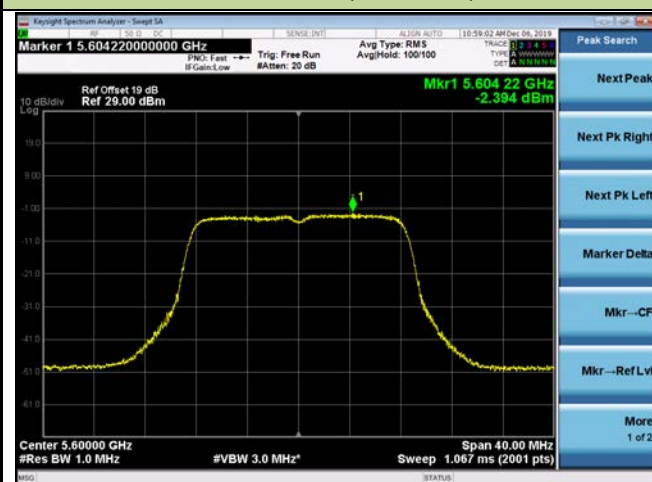
Channel 64 (5320MHz)



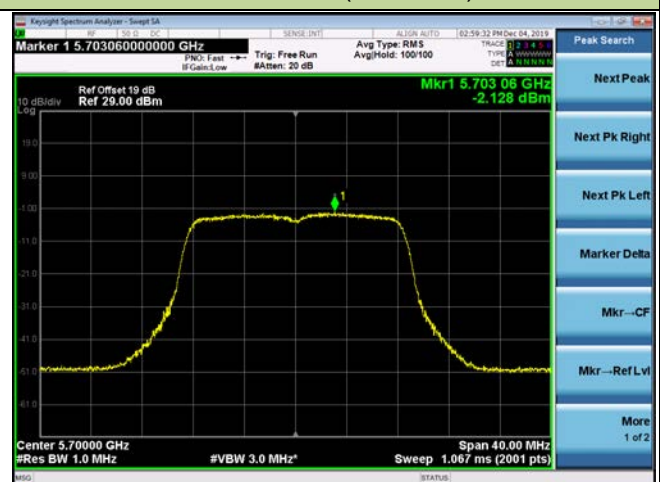
Channel 100 (5500MHz)

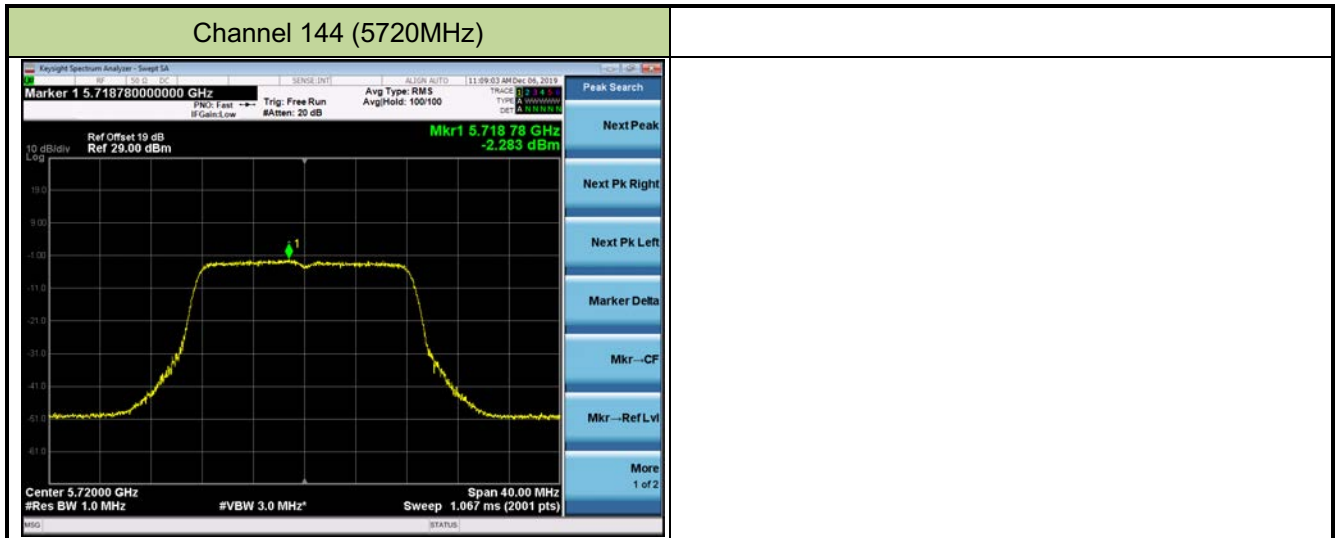


Channel 120 (5600MHz)



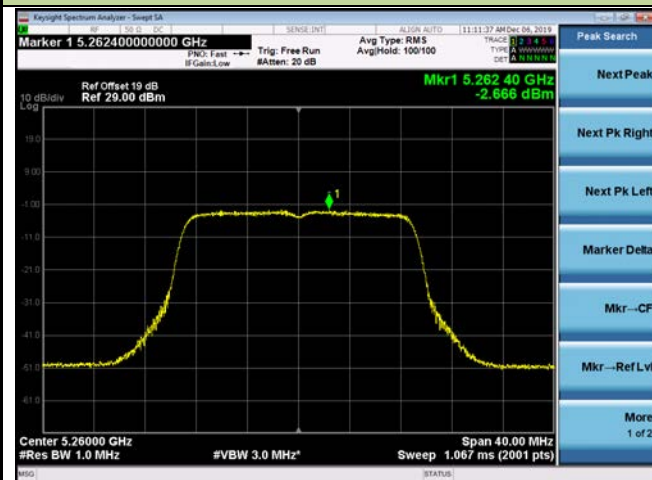
Channel 140 (5700MHz)



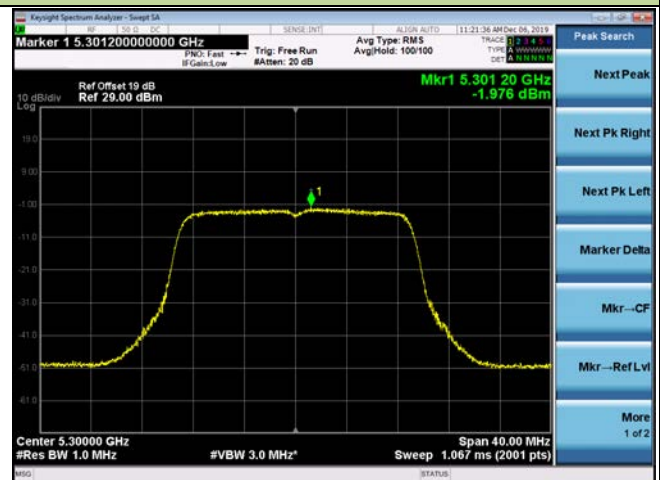


## 802.11n-HT20 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

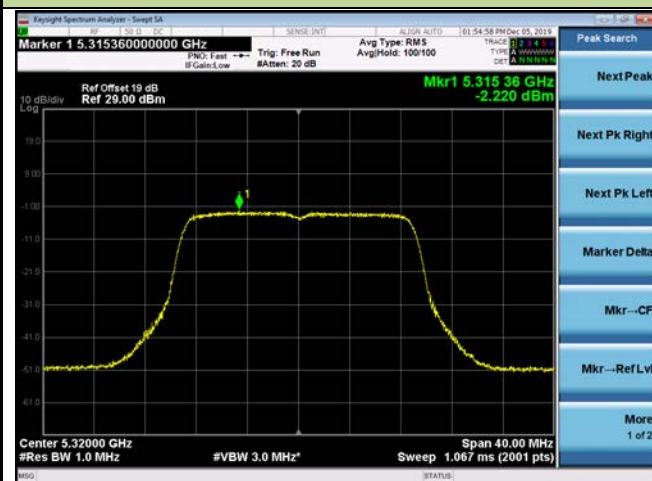
Channel 52 (5260MHz)



Channel 60 (5300MHz)



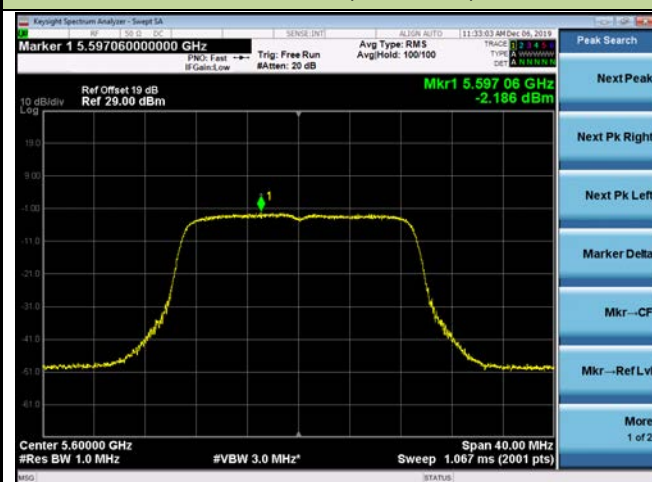
Channel 64 (5320MHz)



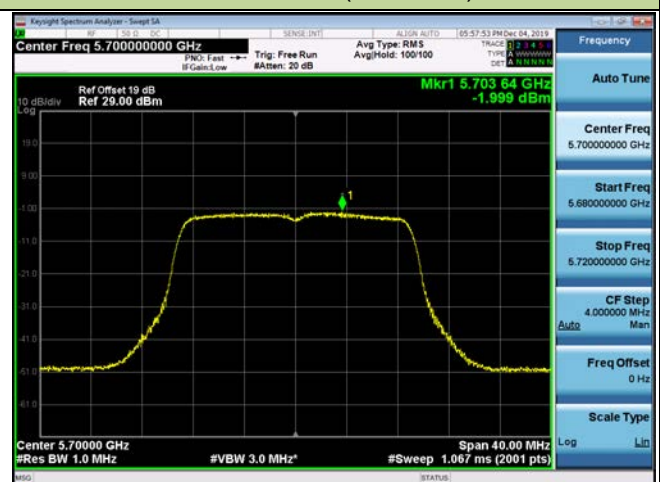
Channel 100 (5500MHz)

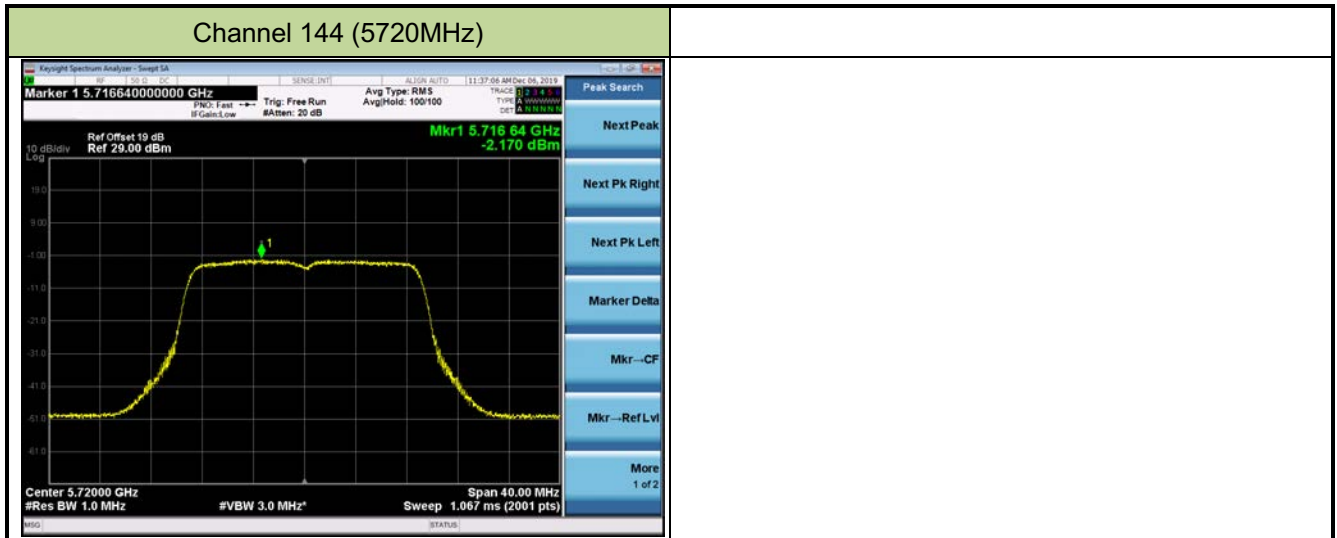


Channel 120 (5600MHz)



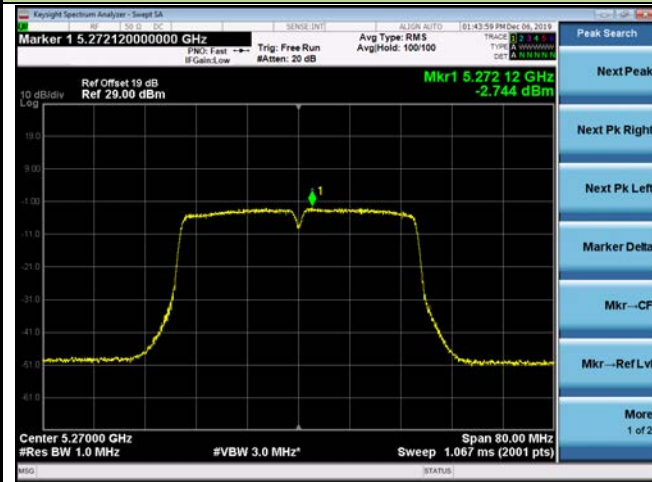
Channel 140 (5700MHz)





## 802.11n-HT40 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

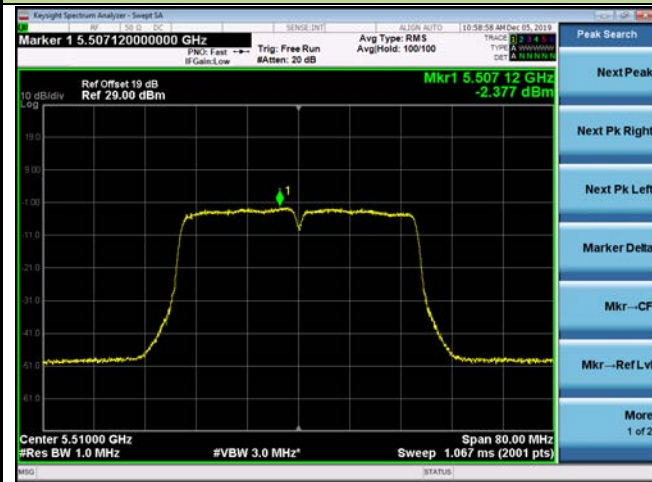
Channel 54 (5270MHz)



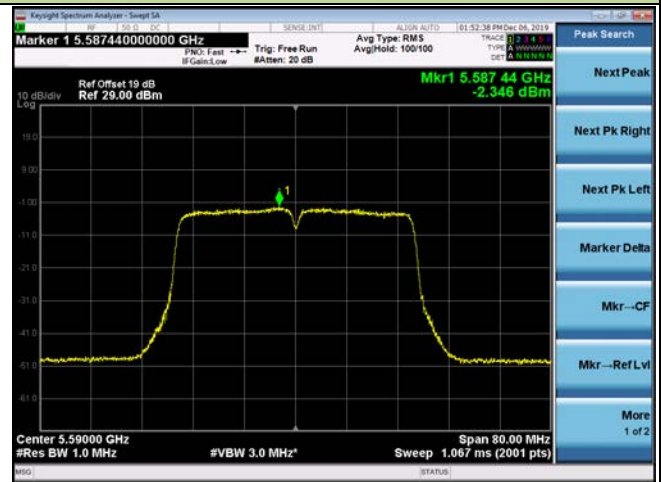
Channel 62 (5310MHz)



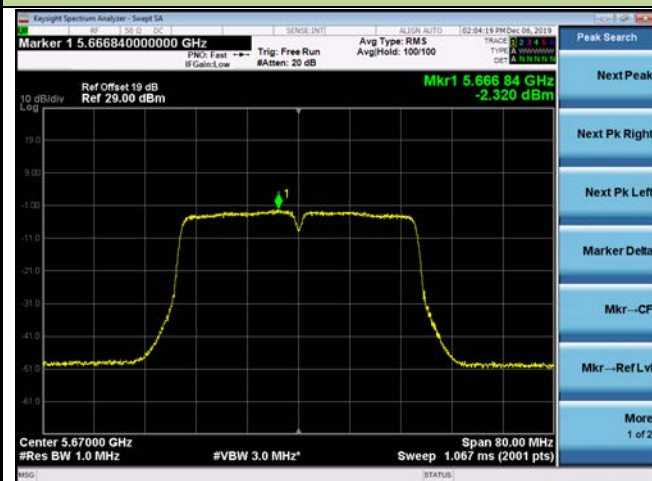
Channel 102 (5510MHz)



Channel 118 (5590MHz)



Channel 134 (5670MHz)

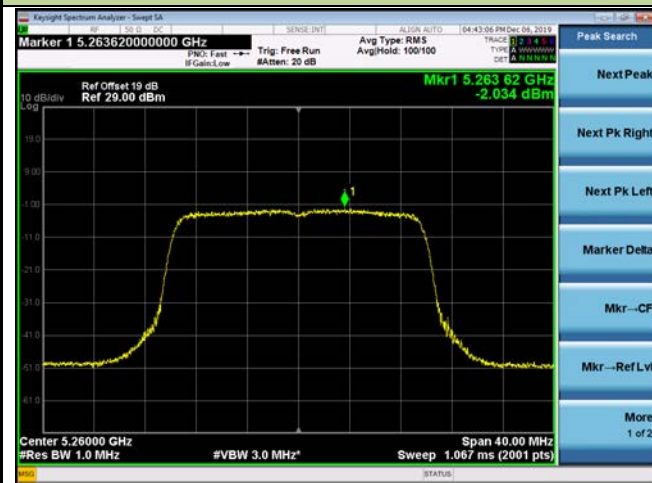


Channel 142 (5710MHz)



## 802.11ax-HE20 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

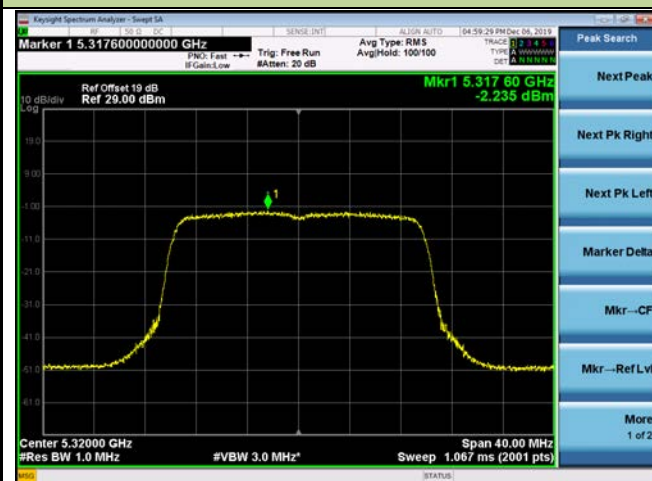
Channel 52 (5260MHz)



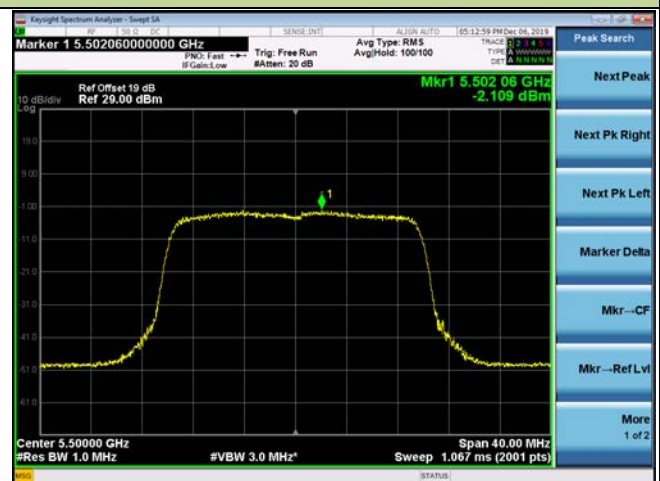
Channel 60 (5300MHz)



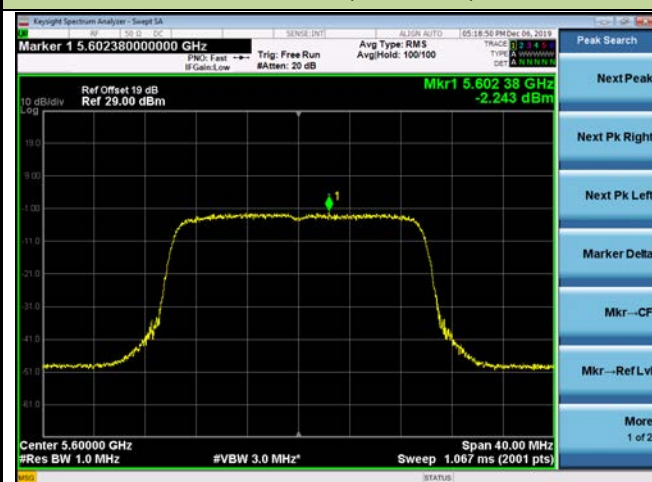
Channel 64 (5320MHz)



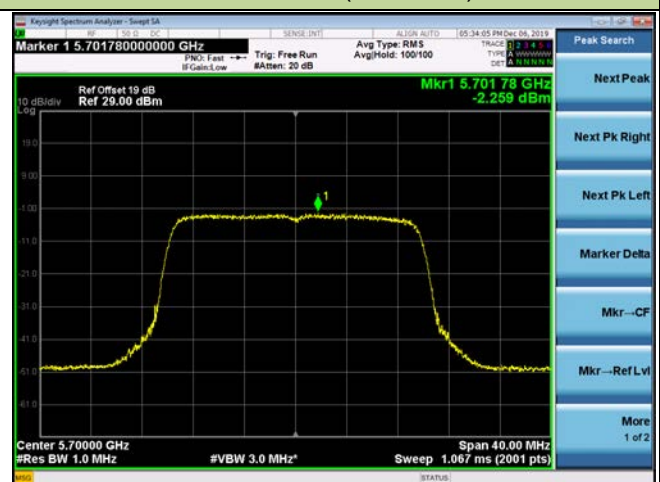
Channel 100 (5500MHz)

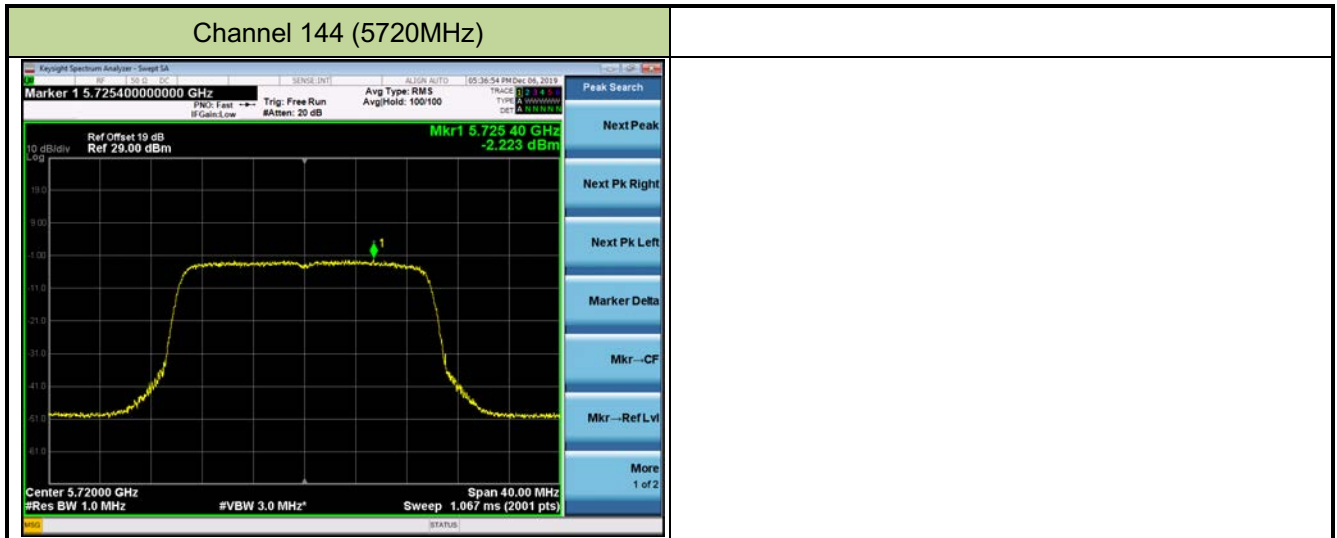


Channel 120 (5600MHz)



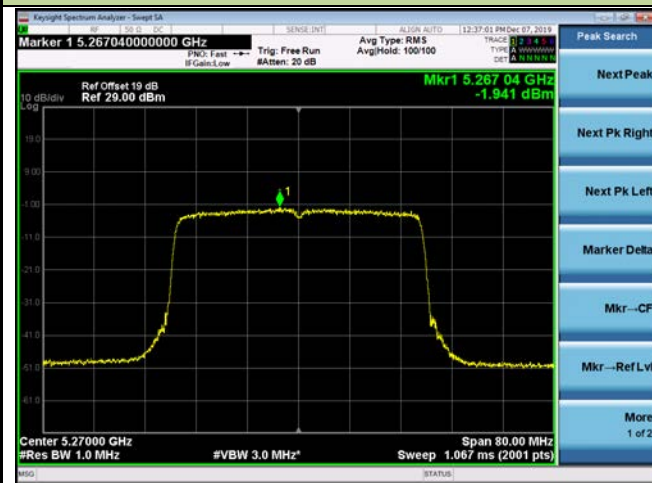
Channel 140 (5700MHz)



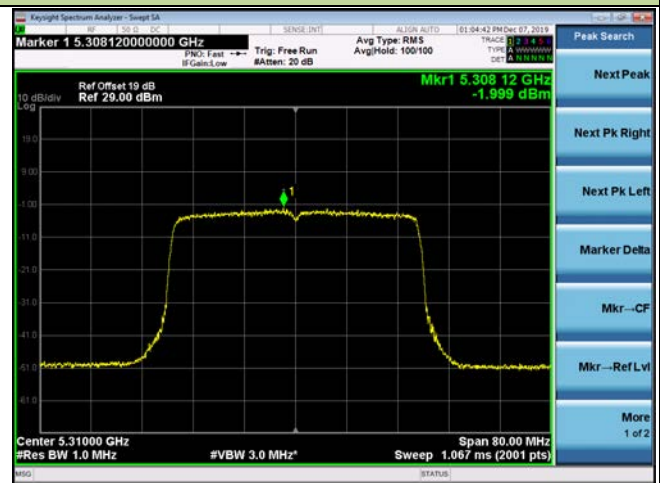


## 802.11ax-HE40 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

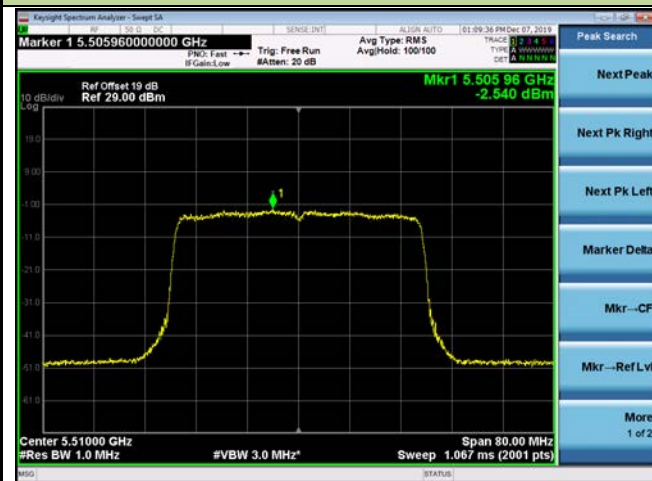
Channel 54 (5270MHz)



Channel 62 (5310MHz)



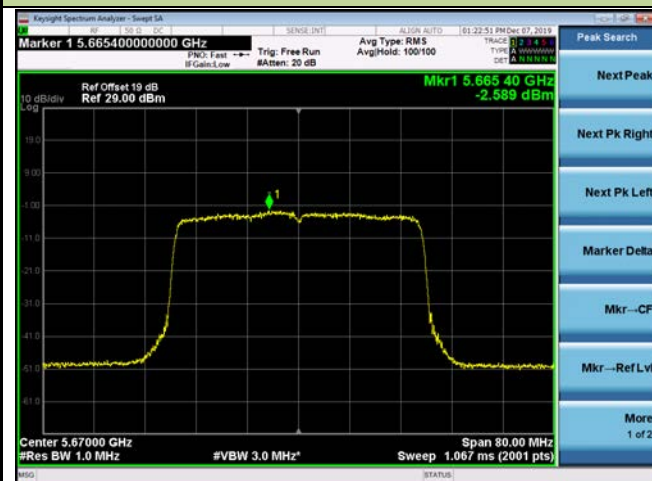
Channel 102 (5510MHz)



Channel 118 (5590MHz)



Channel 134 (5670MHz)

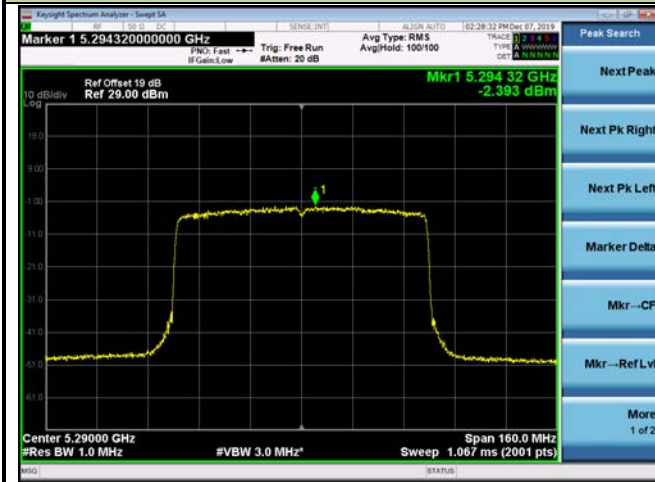


Channel 142 (5710MHz)



## 802.11ax-HE80 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

Channel 58 (5290MHz)



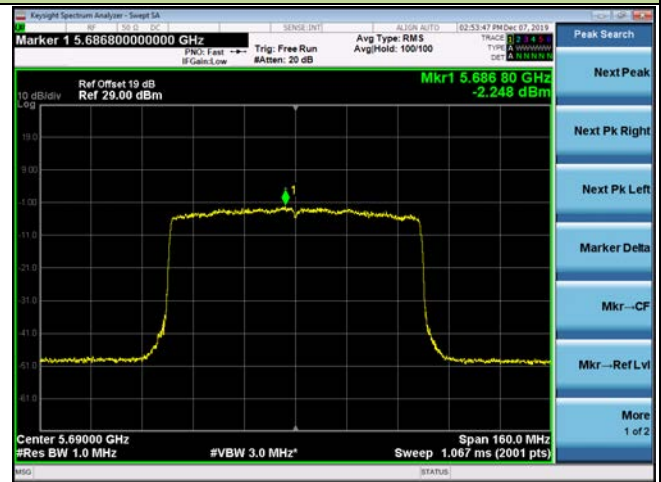
Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)



## 802.11ax-HE80 + 80 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

## Channel 58 (5290MHz)



## Channel 122 (5610MHz)



|               |                            |                   |                         |
|---------------|----------------------------|-------------------|-------------------------|
| Product       | HIT Dragonfly Access Point | Temperature       | 22 ~ 25°C               |
| Test Engineer | David Lv                   | Relative Humidity | 46 ~ 54%                |
| Test Site     | TR3                        | Test Date         | 2019/10/12 ~ 2020/03/02 |
| Model No.     | DAP646-RW                  | Test Item         | Power Spectral Density  |

| Test Mode         | Data Rate/MCS | Channel No. | Freq. (MHz) | Ant 0 PSD (dBm/MHz) | Ant 1 PSD (dBm/MHz) | Ant 2 PSD (dBm/MHz) | Ant 3 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | PSD Limit (dBm/MHz) | Result |
|-------------------|---------------|-------------|-------------|---------------------|---------------------|---------------------|---------------------|----------------|---------------------|---------------------|--------|
| Ant 0 + 1 + 2 + 3 |               |             |             |                     |                     |                     |                     |                |                     |                     |        |
| 11a               | 6Mbps         | 52          | 5260        | -3.95               | -2.49               | -4.30               | -2.14               | 92.14          | 3.25                | ≤ 3.58              | Pass   |
| 11a               | 6Mbps         | 60          | 5300        | -3.53               | -2.44               | -3.33               | -3.42               | 92.14          | 3.22                | ≤ 3.58              | Pass   |
| 11a               | 6Mbps         | 64          | 5320        | -3.90               | -2.70               | -2.91               | -3.62               | 92.14          | 3.12                | ≤ 3.58              | Pass   |
| 11a               | 6Mbps         | 100         | 5500        | -3.83               | -2.98               | -3.51               | -2.46               | 92.14          | 3.21                | ≤ 3.58              | Pass   |
| 11a               | 6Mbps         | 120         | 5600        | -3.03               | -3.75               | -2.32               | -2.63               | 92.14          | 3.48                | ≤ 3.58              | Pass   |
| 11a               | 6Mbps         | 140         | 5700        | -3.01               | -3.96               | -2.14               | -2.81               | 92.14          | 3.44                | ≤ 3.58              | Pass   |
| 11a               | 6Mbps         | 144         | 5720        | -3.55               | -3.70               | -3.92               | -2.97               | 92.14          | 2.86                | ≤ 3.58              | Pass   |
| 11n-HT20          | MCS0          | 52          | 5260        | -2.42               | -3.86               | -2.97               | -2.46               | 95.80          | 3.32                | ≤ 3.58              | Pass   |
| 11n-HT20          | MCS0          | 60          | 5300        | -3.49               | -3.96               | -3.70               | -3.55               | 95.80          | 2.54                | ≤ 3.58              | Pass   |
| 11n-HT20          | MCS0          | 64          | 5320        | -3.15               | -3.58               | -3.97               | -3.01               | 95.80          | 2.80                | ≤ 3.58              | Pass   |
| 11n-HT20          | MCS0          | 100         | 5500        | -2.31               | -4.14               | -2.63               | -3.25               | 95.80          | 3.18                | ≤ 3.58              | Pass   |
| 11n-HT20          | MCS0          | 120         | 5600        | -3.09               | -3.38               | -3.46               | -2.51               | 95.80          | 3.11                | ≤ 3.58              | Pass   |
| 11n-HT20          | MCS0          | 140         | 5700        | -3.10               | -3.14               | -2.34               | -2.55               | 95.80          | 3.44                | ≤ 3.58              | Pass   |
| 11n-HT20          | MCS0          | 144         | 5720        | -3.49               | -3.66               | -3.31               | -3.51               | 95.80          | 2.72                | ≤ 3.58              | Pass   |
| 11n-HT40          | MCS0          | 54          | 5270        | -2.68               | -3.81               | -2.45               | -2.93               | 93.70          | 3.37                | ≤ 3.58              | Pass   |
| 11n-HT40          | MCS0          | 62          | 5310        | -2.52               | -3.97               | -3.52               | -2.41               | 93.70          | 3.25                | ≤ 3.58              | Pass   |
| 11n-HT40          | MCS0          | 102         | 5510        | -2.67               | -2.75               | -3.67               | -3.17               | 93.70          | 3.26                | ≤ 3.58              | Pass   |
| 11n-HT40          | MCS0          | 118         | 5590        | -3.03               | -3.70               | -2.40               | -2.66               | 93.70          | 3.38                | ≤ 3.58              | Pass   |
| 11n-HT40          | MCS0          | 134         | 5670        | -3.44               | -3.52               | -2.70               | -3.19               | 93.70          | 3.10                | ≤ 3.58              | Pass   |
| 11n-HT40          | MCS0          | 142         | 5710        | -3.32               | -2.98               | -3.59               | -2.62               | 93.70          | 3.19                | ≤ 3.58              | Pass   |
| 11ax-HE20         | MCS0          | 52          | 5260        | -2.72               | -2.21               | -3.80               | -3.31               | 95.77          | 3.24                | ≤ 3.58              | Pass   |
| 11ax-HE20         | MCS0          | 60          | 5300        | -2.86               | -2.93               | -2.77               | -3.44               | 95.77          | 3.22                | ≤ 3.58              | Pass   |
| 11ax-HE20         | MCS0          | 64          | 5320        | -2.93               | -2.61               | -3.42               | -2.78               | 95.77          | 3.28                | ≤ 3.58              | Pass   |
| 11ax-HE20         | MCS0          | 100         | 5500        | -2.70               | -3.21               | -3.26               | -3.27               | 95.77          | 3.10                | ≤ 3.58              | Pass   |
| 11ax-HE20         | MCS0          | 120         | 5600        | -3.35               | -3.40               | -3.18               | -3.38               | 95.77          | 2.88                | ≤ 3.58              | Pass   |
| 11ax-HE20         | MCS0          | 140         | 5700        | -3.47               | -3.17               | -2.79               | -3.07               | 95.77          | 3.09                | ≤ 3.58              | Pass   |

|                              |               |             |             |                     |                     |                     |                     |                |                     |                     |        |
|------------------------------|---------------|-------------|-------------|---------------------|---------------------|---------------------|---------------------|----------------|---------------------|---------------------|--------|
| 11ax-HE20                    | MCS0          | 144         | 5720        | -3.45               | -3.07               | -3.13               | -3.26               | 95.77          | 2.98                | ≤ 3.58              | Pass   |
| Test Mode                    | Data Rate/MCS | Channel No. | Freq. (MHz) | Ant 0 PSD (dBm/MHz) | Ant 1 PSD (dBm/MHz) | Ant 2 PSD (dBm/MHz) | Ant 3 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | PSD Limit (dBm/MHz) | Result |
| Ant 0 + 1 + 2 + 3 (CDD Mode) |               |             |             |                     |                     |                     |                     |                |                     |                     |        |
| 11ax-HE40                    | MCS0          | 54          | 5270        | -3.18               | -2.73               | -2.41               | -3.23               | 95.41          | 3.35                | ≤ 3.58              | Pass   |
| 11ax-HE40                    | MCS0          | 62          | 5310        | -2.85               | -3.32               | -3.09               | -2.96               | 95.41          | 3.17                | ≤ 3.58              | Pass   |
| 11ax-HE40                    | MCS0          | 102         | 5510        | -3.94               | -3.18               | -3.27               | -3.24               | 95.41          | 2.83                | ≤ 3.58              | Pass   |
| 11ax-HE40                    | MCS0          | 118         | 5590        | -2.61               | -2.98               | -2.66               | -2.72               | 95.41          | 3.48                | ≤ 3.58              | Pass   |
| 11ax-HE40                    | MCS0          | 134         | 5670        | -3.21               | -2.77               | -2.91               | -2.90               | 95.41          | 3.28                | ≤ 3.58              | Pass   |
| 11ax-HE40                    | MCS0          | 142         | 5710        | -3.24               | -2.62               | -3.64               | -3.24               | 95.41          | 3.06                | ≤ 3.58              | Pass   |
| 11ax-HE80                    | MCS0          | 58          | 5290        | -2.58               | -3.09               | -2.84               | -2.69               | 94.49          | 3.47                | ≤ 3.58              | Pass   |
| 11ax-HE80                    | MCS0          | 106         | 5530        | -3.31               | -3.79               | -3.07               | -3.23               | 94.49          | 2.92                | ≤ 3.58              | Pass   |
| 11ax-HE80                    | MCS0          | 122         | 5610        | -3.11               | -3.27               | -2.82               | -3.20               | 94.49          | 3.17                | ≤ 3.58              | Pass   |
| 11ax-HE80                    | MCS0          | 138         | 5690        | -3.57               | -3.13               | -2.81               | -2.98               | 94.49          | 3.15                | ≤ 3.58              | Pass   |
| 11ax-HE80 + 80               | MCS0          | 42          | 5210        | -2.59               | -2.74               |                     |                     | 94.49          | 0.59                | ≤ 9.58              | Pass   |
|                              |               | 58          | 5290        |                     |                     | -3.48               | -2.95               | 94.49          | 0.05                | ≤ 3.58              | Pass   |
| 11ax-HE80 + 80               | MCS0          | 106         | 5530        | -3.58               | -3.48               |                     |                     | 94.49          | -0.27               | ≤ 3.58              | Pass   |
|                              |               | 122         | 5610        |                     |                     | -2.97               | -3.27               | 94.49          | 0.14                | ≤ 3.58              | Pass   |

Note 1: When EUT duty cycle ≥ 98%, the total PSD (dBm/MHz) =  $10 \cdot \log \{ 10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)} \}$

Note 2: When EUT duty cycle < 98%, the total PSD (dBm/MHz) =  $10 \cdot \log \{ 10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)} \} + 10 \cdot \log(1/\text{duty cycle})$

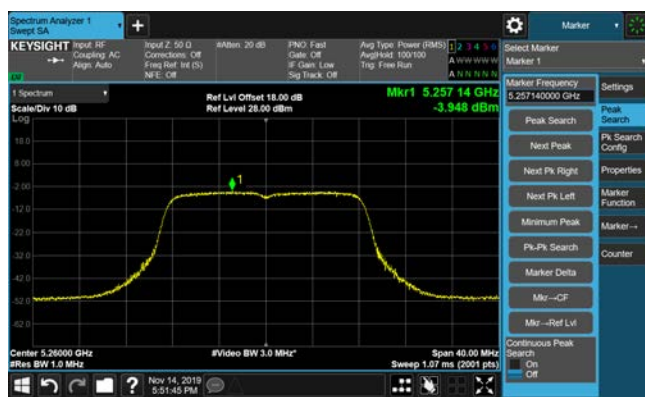
Note 3: For ax-HE80+80 Contiguous Mode

5210MHz and 5530MHz: Total Average Power (dBm) =  $10 \cdot \log \{ 10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} \}$ .

5290MHz and 5610MHz: Total Average Power (dBm) =  $10 \cdot \log \{ 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)} \}$ .

## 802.11a Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 120 (5600MHz)

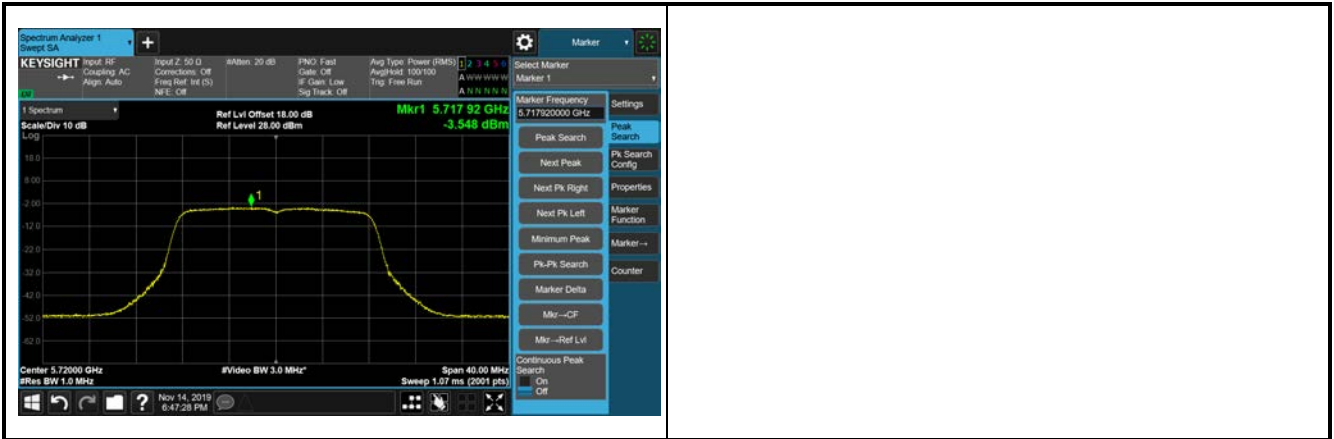


Channel 140 (5700MHz)



Channel 144 (5720MHz)





## 802.11n-HT20 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



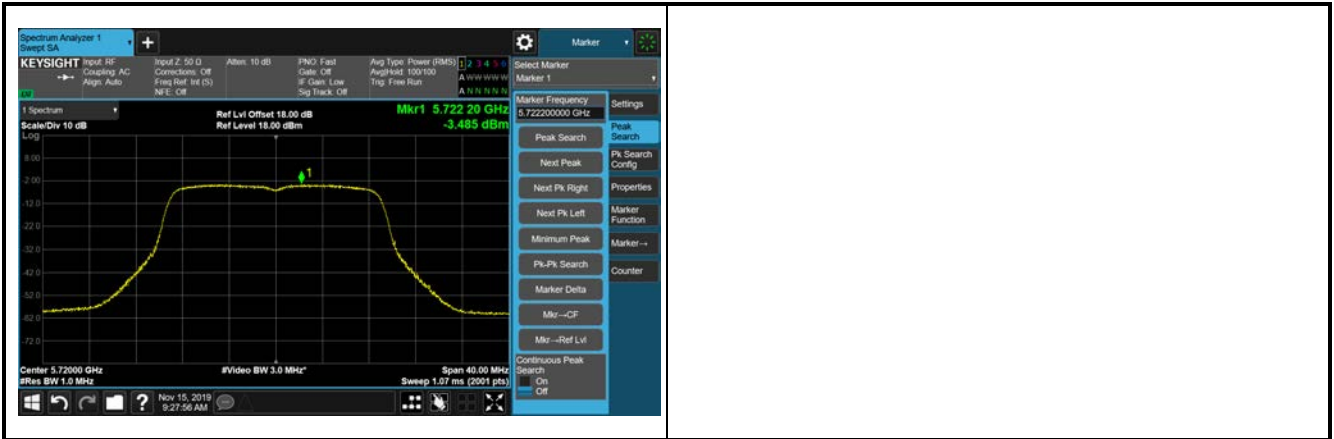
Channel 120 (5600MHz)



Channel 140 (5700MHz)



Channel 144 (5720MHz)



## 802.11n-HT40 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 54 (5270MHz)



Channel 62 (5310MHz)



Channel 102 (5510MHz)



Channel 118 (5590MHz)



Channel 134 (5670MHz)



Channel 142 (5710MHz)



## 802.11ax-HE20 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



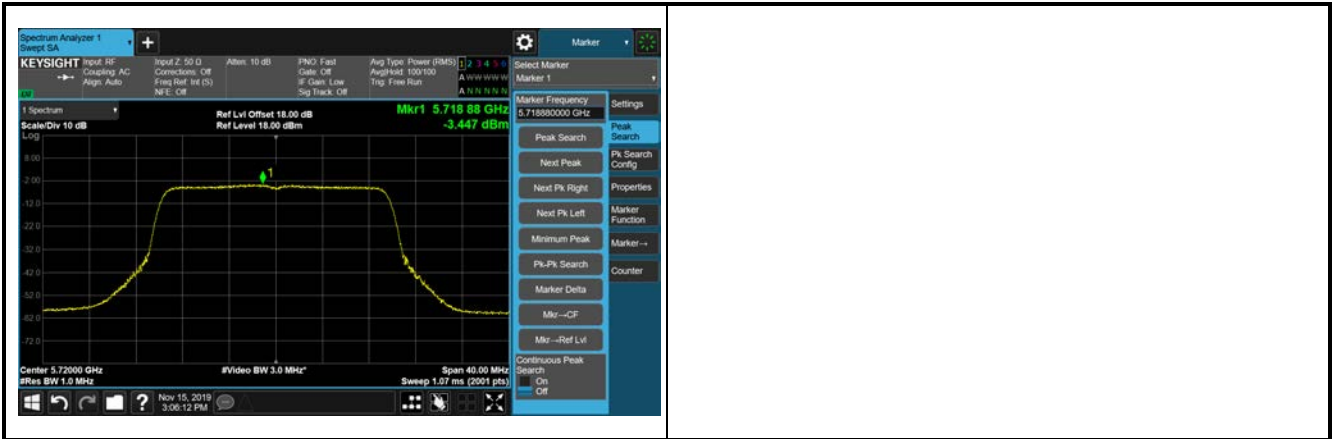
Channel 120 (5600MHz)



Channel 140 (5700MHz)

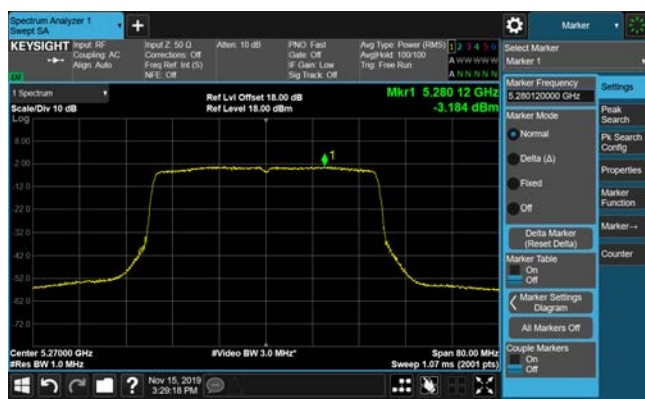


Channel 144 (5720MHz)



## 802.11ax-HE40 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 54 (5270MHz)



Channel 62 (5310MHz)



Channel 102 (5510MHz)



Channel 118 (5590MHz)



Channel 134 (5670MHz)

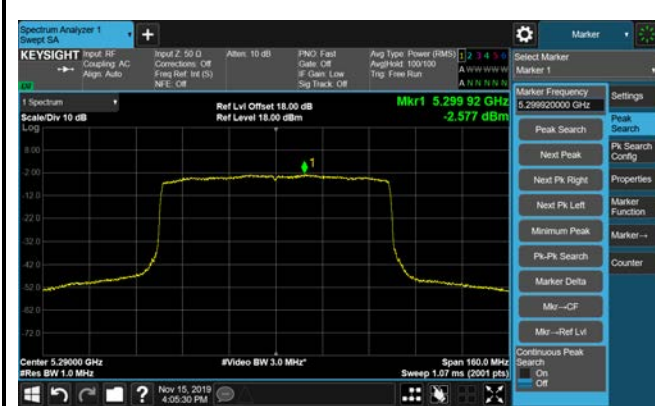


Channel 142 (5710MHz)



## 802.11ax-HE80 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 58 (5290MHz)



Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)



## 802.11ax-HE80 + 80 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

## Channel 42 (5210MHz)

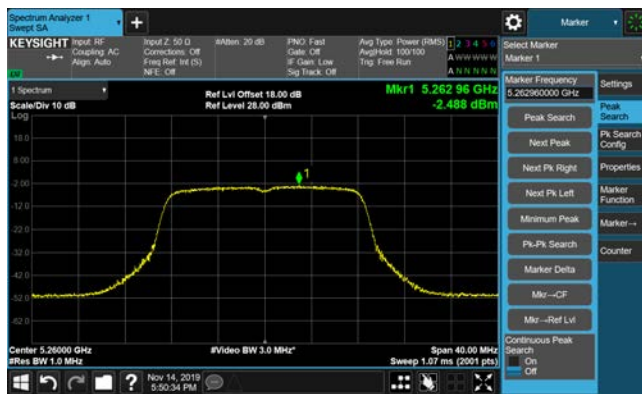


## Channel 106 (5530MHz)

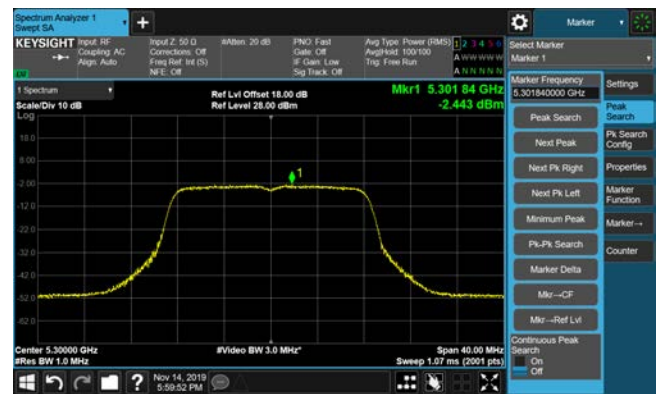


## 802.11a Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

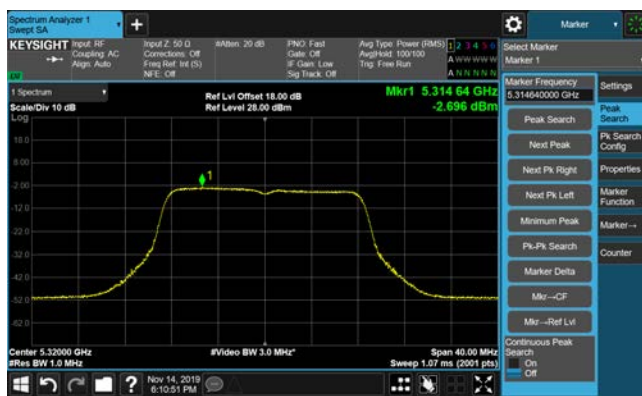
Channel 52 (5260MHz)



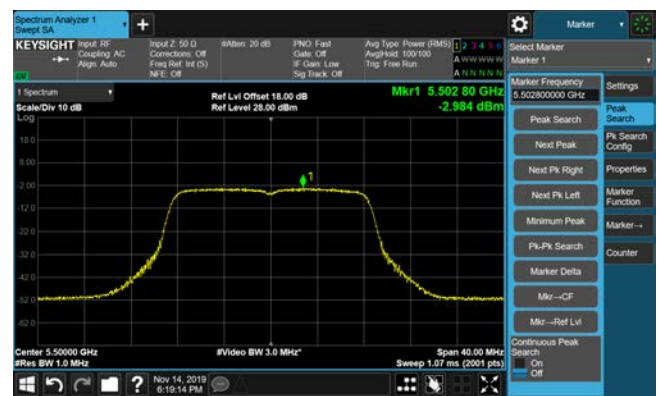
Channel 60 (5300MHz)



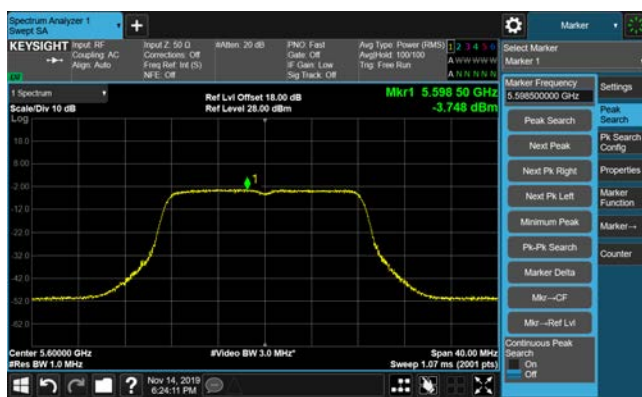
Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 120 (5600MHz)



Channel 140 (5700MHz)



Channel 144 (5720MHz)



## 802.11n-HT20 Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



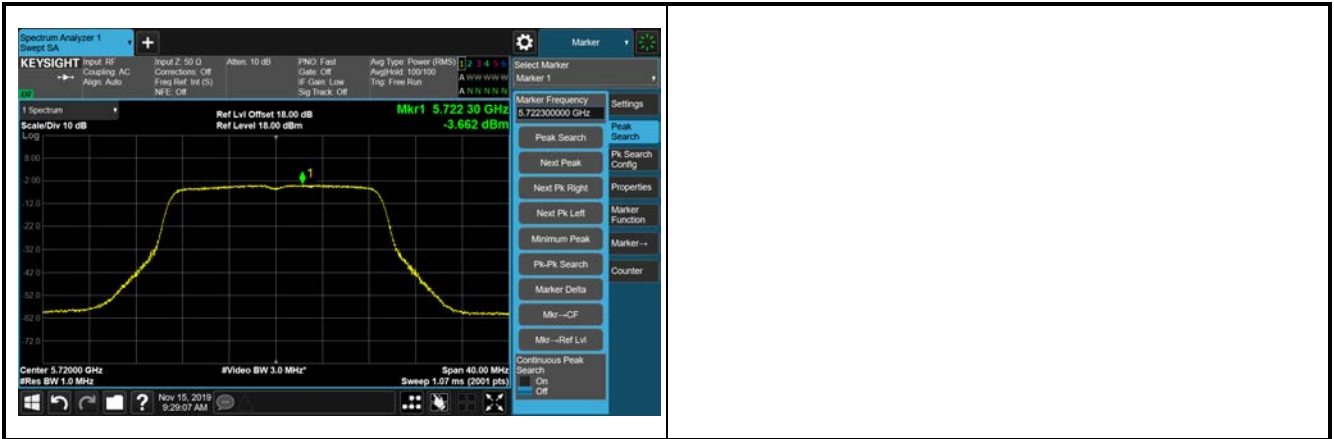
Channel 120 (5600MHz)



Channel 140 (5700MHz)



Channel 144 (5720MHz)



## 802.11n-HT40 Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

Channel 54 (5270MHz)



Channel 62 (5310MHz)



Channel 102 (5510MHz)



Channel 118 (5590MHz)



Channel 134 (5670MHz)



Channel 142 (5710MHz)



## 802.11ax-HE20 Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



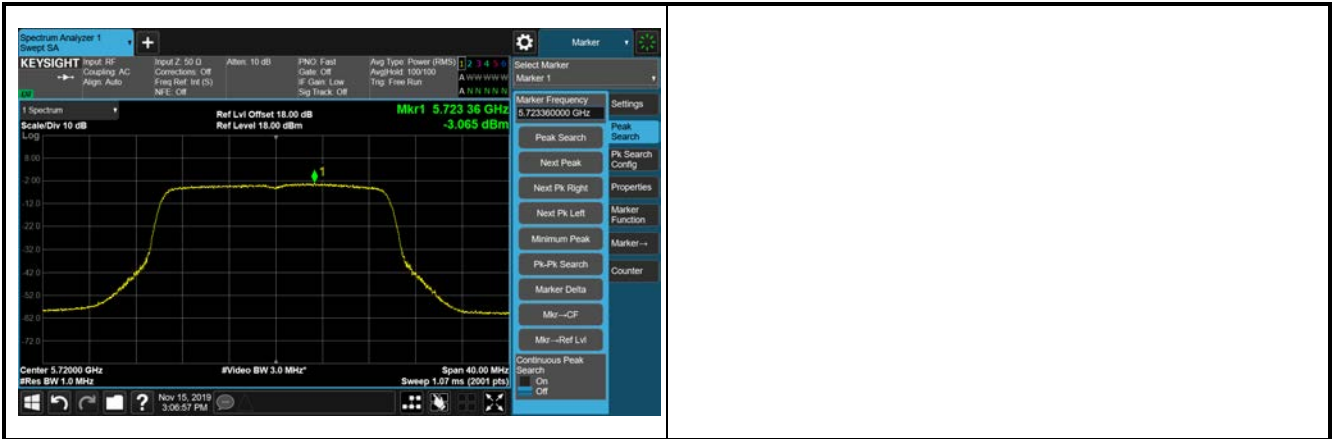
Channel 120 (5600MHz)



Channel 140 (5700MHz)



Channel 144 (5720MHz)



## 802.11ax-HE40 Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

Channel 54 (5270MHz)



Channel 62 (5310MHz)



Channel 102 (5510MHz)



Channel 118 (5590MHz)



Channel 134 (5670MHz)



Channel 142 (5710MHz)



## 802.11ax-HE80 Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

Channel 58 (5290MHz)



Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)

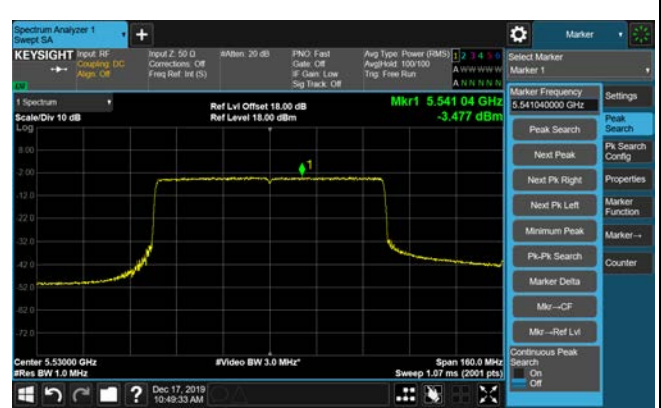


## 802.11ax-HE80 + 80 Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

## Channel 42 (5210MHz)

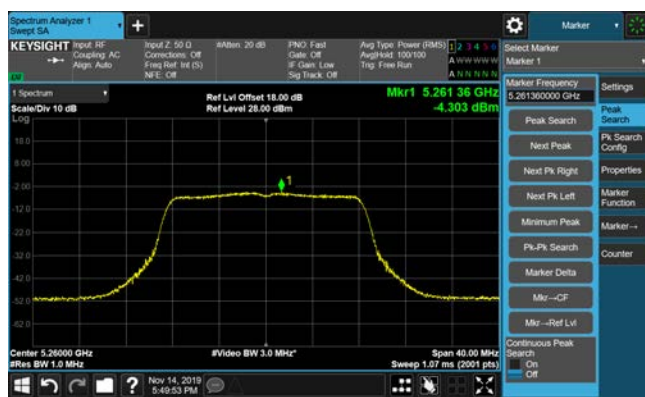


## Channel 106 (5530MHz)



## 802.11a Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3

Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



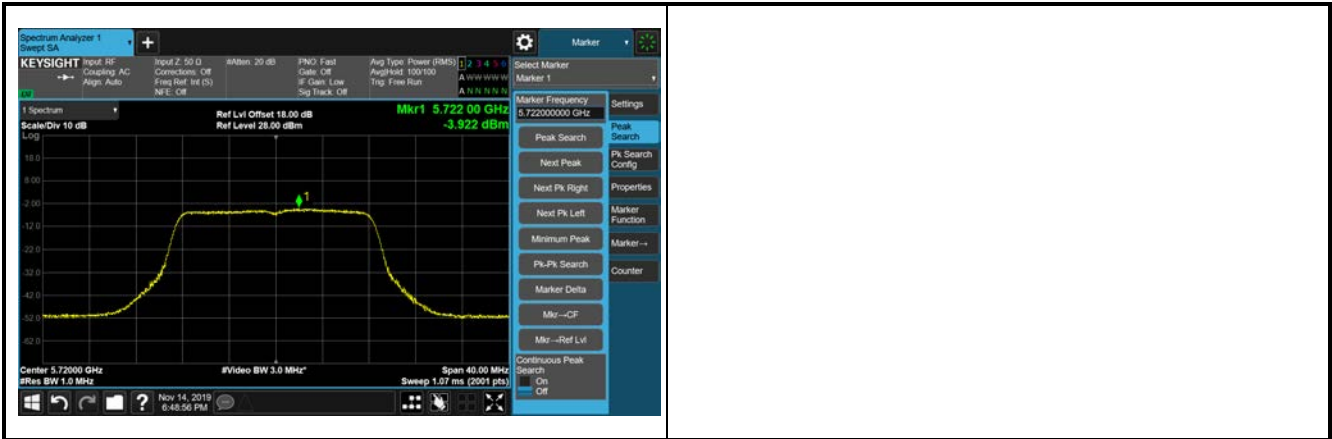
Channel 120 (5600MHz)



Channel 140 (5700MHz)



Channel 144 (5720MHz)



## 802.11n-HT20 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3

Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



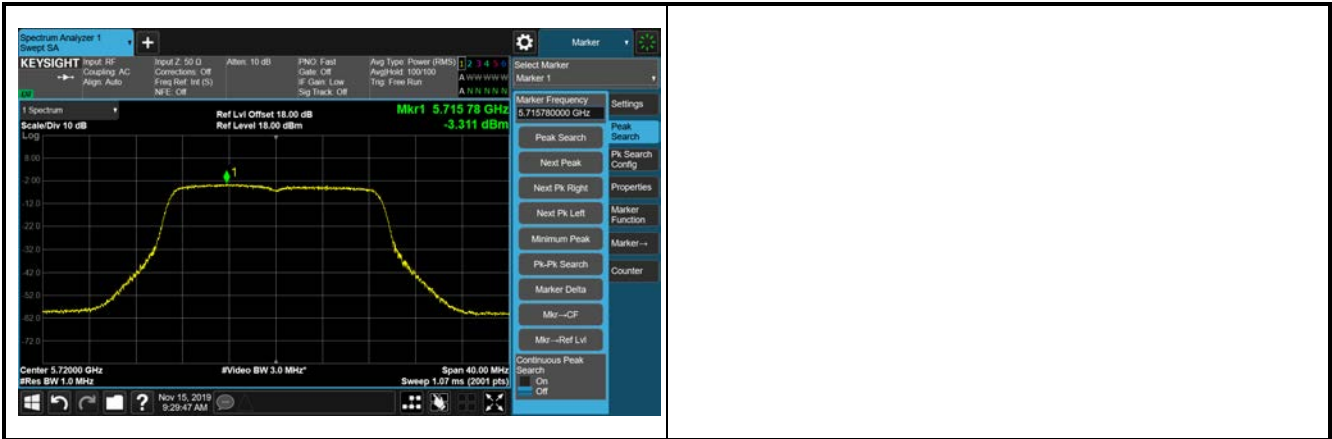
Channel 120 (5600MHz)



Channel 140 (5700MHz)



Channel 144 (5720MHz)



## 802.11n-HT40 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3

Channel 54 (5270MHz)



Channel 62 (5310MHz)



Channel 102 (5510MHz)



Channel 118 (5590MHz)



Channel 134 (5670MHz)



Channel 142 (5710MHz)

