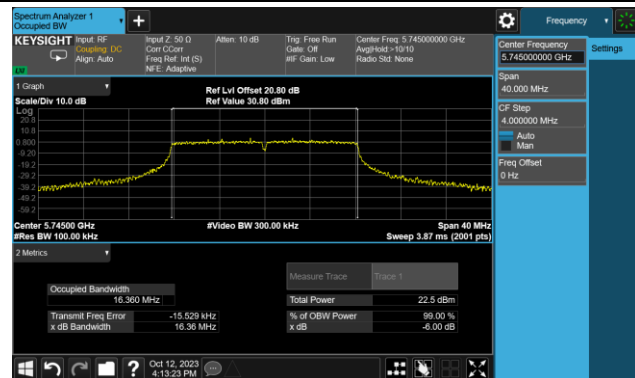
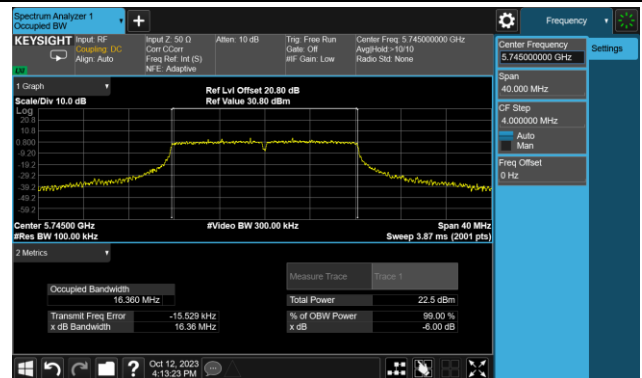


## 802.11a 6dB Bandwidth

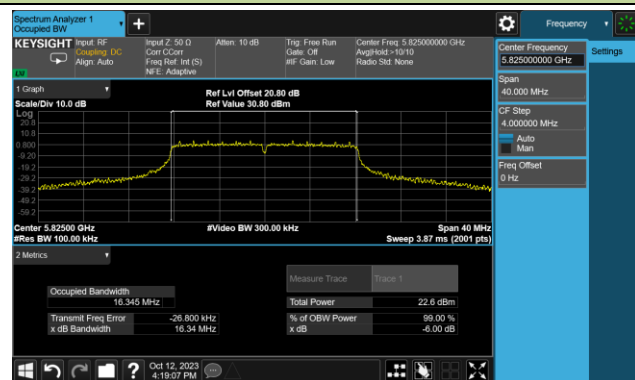
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)

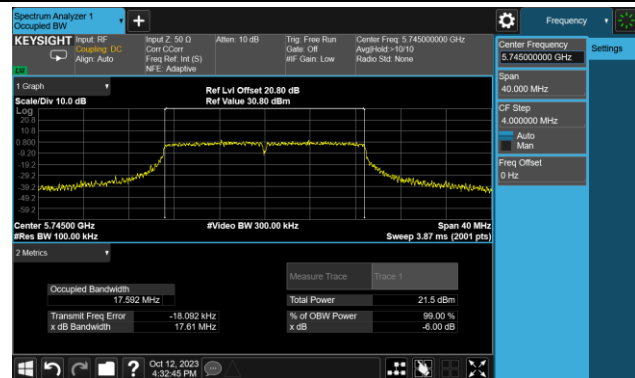


## Channel 165 (5825MHz)

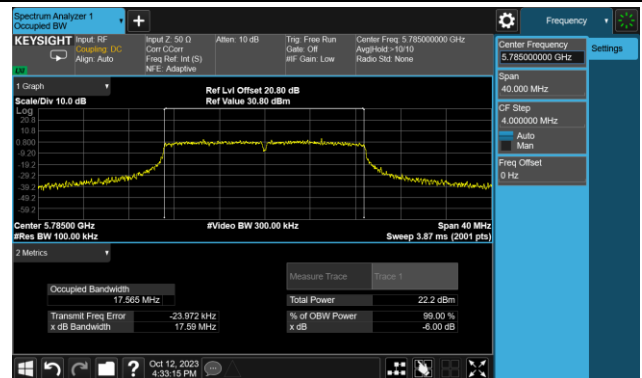


## 802.11ac-VHT20 6dB Bandwidth

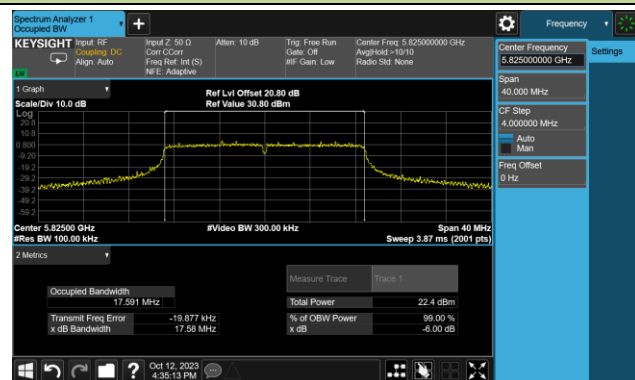
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)

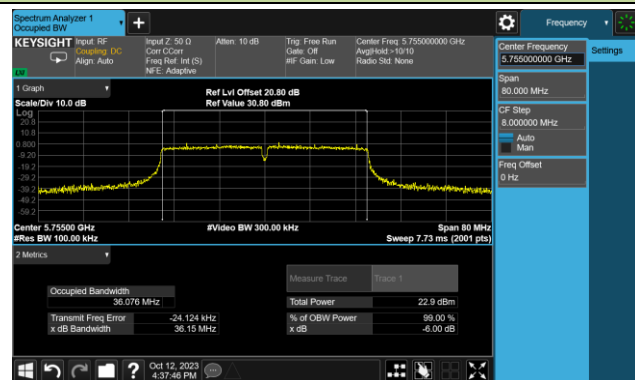


## Channel 165 (5825MHz)

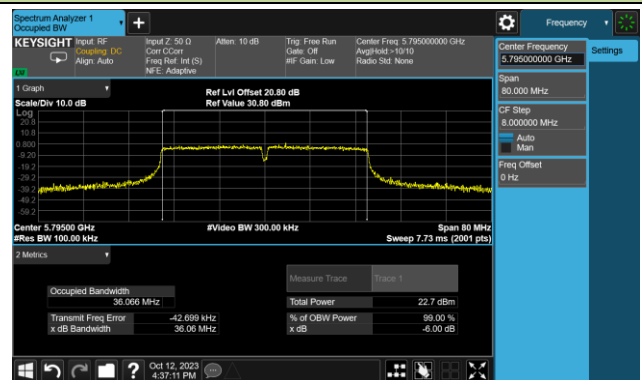


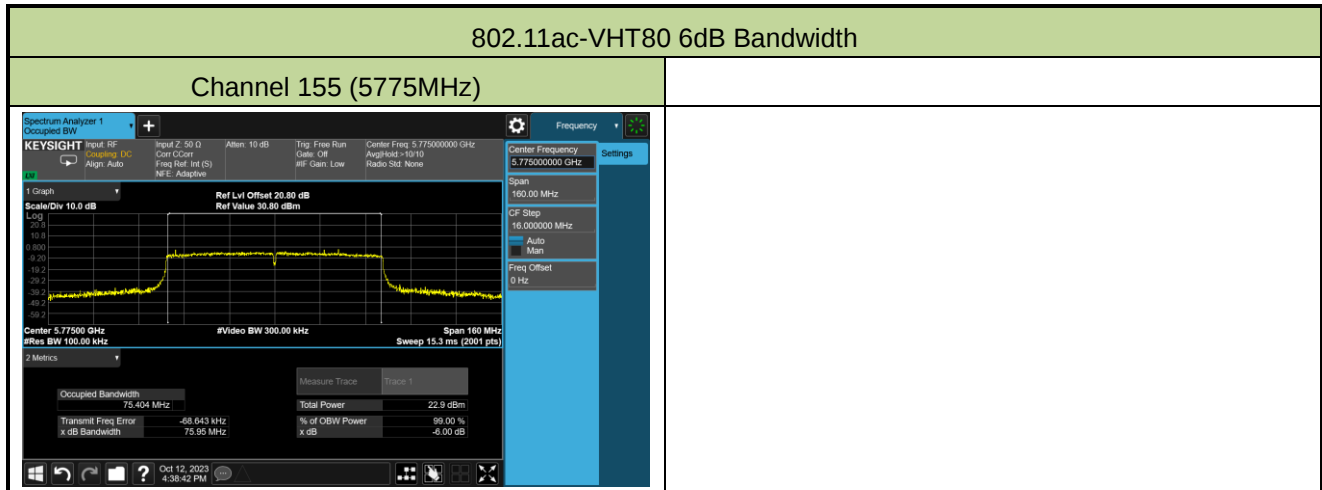
## 802.11ac-VHT40 6dB Bandwidth

## Channel 151 (5755MHz)



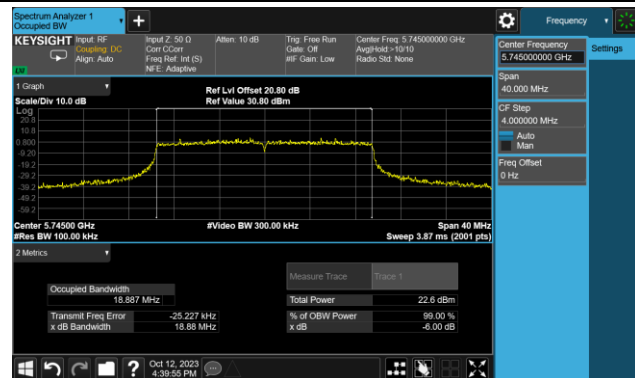
## Channel 159 (5795MHz)



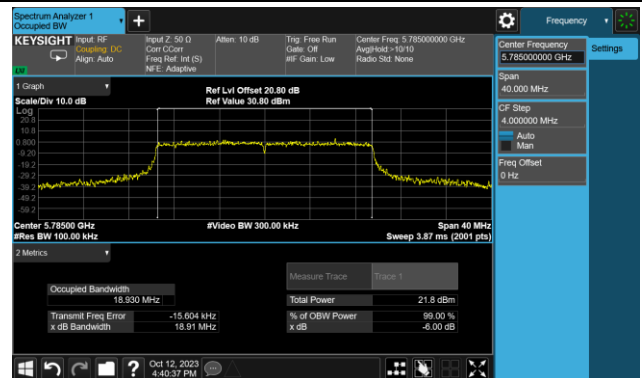


## 802.11ax-HE20 6dB Bandwidth

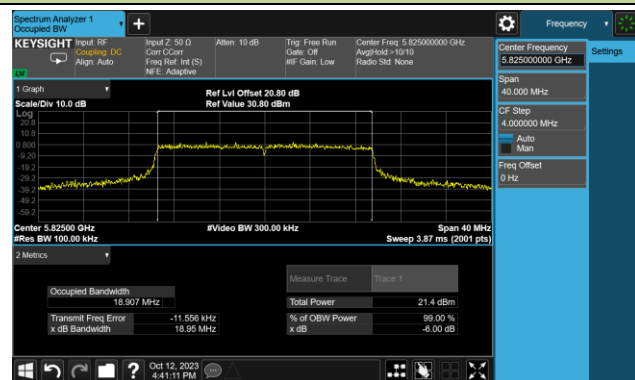
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)

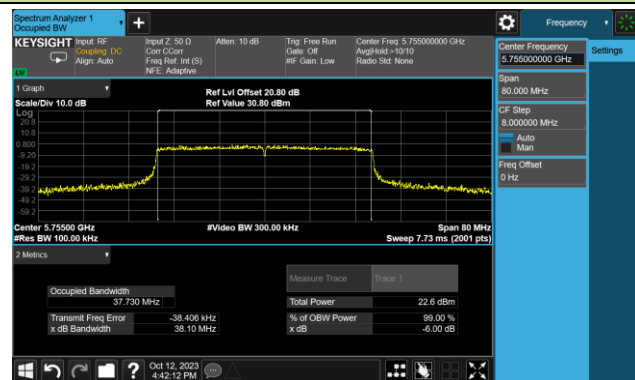


## Channel 165 (5825MHz)

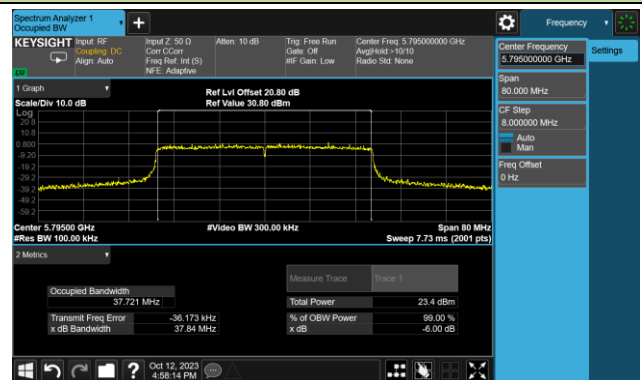


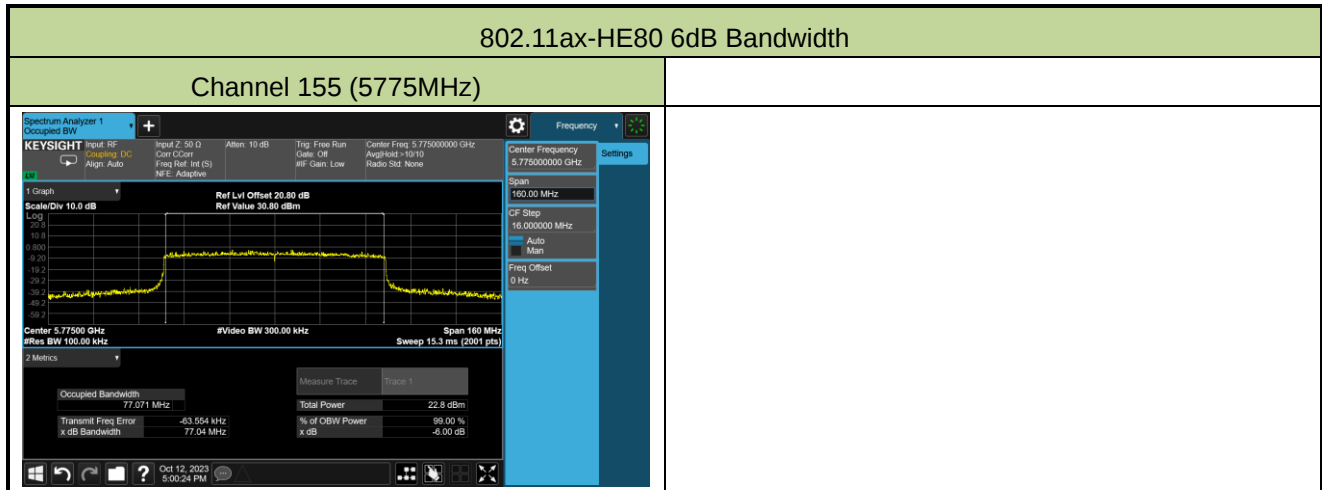
## 802.11ac-VHT40 6dB Bandwidth

## Channel 151 (5755MHz)



## Channel 159 (5795MHz)





#### A.4 Output Power Test Result

|           |                       |                   |                   |
|-----------|-----------------------|-------------------|-------------------|
| Test Site | SIP-TR1               | Test Engineer     | Alisa Deng        |
| Test Date | 2023-10-17~2023-10-25 | Antenna Model No. | KDP2N-D2458L13BWB |

| Test Mode  | Data Rate MCS | Channel No. | Freq. (MHz) | Average Power (dBm) |       |       |       | Total Average Power (dBm) |         | Power Limit (dBm) |
|------------|---------------|-------------|-------------|---------------------|-------|-------|-------|---------------------------|---------|-------------------|
|            |               |             |             | Ant 0               | Ant 1 | Ant 2 | Ant 3 | Ant 0+2                   | Ant 1+3 |                   |
| 11a        | 6Mbps         | 36          | 5180        | 14.67               | 15.18 | 14.11 | 14.05 | 17.41                     | 17.66   | ≤ 23.10           |
| 11a        | 6Mbps         | 44          | 5220        | 14.56               | 15.24 | 14.34 | 14.67 | 17.46                     | 17.97   | ≤ 23.10           |
| 11a        | 6Mbps         | 48          | 5240        | 14.22               | 15.13 | 14.58 | 14.52 | 17.41                     | 17.85   | ≤ 23.10           |
| 11a        | 6Mbps         | 52          | 5260        | 9.11                | 8.57  | 7.89  | 8.23  | 11.55                     | 11.41   | ≤ 15.87           |
| 11a        | 6Mbps         | 60          | 5300        | 9.26                | 8.81  | 8.24  | 8.31  | 11.79                     | 11.58   | ≤ 15.87           |
| 11a        | 6Mbps         | 64          | 5320        | 9.22                | 9.15  | 7.91  | 8.31  | 11.62                     | 11.76   | ≤ 15.85           |
| 11a        | 6Mbps         | 100         | 5500        | 8.30                | 6.79  | 7.84  | 7.78  | 11.09                     | 10.32   | ≤ 15.81           |
| 11a        | 6Mbps         | 116         | 5580        | 8.29                | 7.53  | 8.15  | 8.06  | 11.23                     | 10.81   | ≤ 15.89           |
| 11a        | 6Mbps         | 140         | 5700        | 9.46                | 8.41  | 7.88  | 8.16  | 11.75                     | 11.30   | ≤ 15.81           |
| 11a        | 6Mbps         | 144         | 5720        | 9.35                | 7.88  | 7.94  | 8.33  | 11.71                     | 11.12   | ≤ 14.62           |
| 11a        | 6Mbps         | 149         | 5745        | 19.46               | 17.85 | 18.45 | 19.04 | 21.99                     | 21.50   | ≤ 22.52           |
| 11a        | 6Mbps         | 157         | 5785        | 19.41               | 17.33 | 18.36 | 18.94 | 21.93                     | 21.22   | ≤ 22.52           |
| 11a        | 6Mbps         | 165         | 5825        | 19.61               | 18.08 | 18.31 | 18.96 | 22.02                     | 21.55   | ≤ 22.52           |
| 11ac-VHT20 | MCS0          | 36          | 5180        | 14.33               | 15.11 | 13.65 | 14.17 | 17.01                     | 17.68   | ≤ 23.10           |
| 11ac-VHT20 | MCS0          | 44          | 5220        | 14.51               | 15.18 | 14.21 | 14.58 | 17.37                     | 17.90   | ≤ 23.10           |
| 11ac-VHT20 | MCS0          | 48          | 5240        | 14.17               | 14.87 | 14.27 | 14.22 | 17.23                     | 17.57   | ≤ 23.10           |
| 11ac-VHT20 | MCS0          | 52          | 5260        | 9.06                | 8.45  | 7.76  | 8.14  | 11.47                     | 11.31   | ≤ 16.02           |
| 11ac-VHT20 | MCS0          | 60          | 5300        | 9.17                | 8.81  | 7.61  | 8.22  | 11.47                     | 11.54   | ≤ 16.00           |
| 11ac-VHT20 | MCS0          | 64          | 5320        | 9.75                | 9.73  | 8.79  | 8.82  | 12.31                     | 12.31   | ≤ 16.02           |
| 11ac-VHT20 | MCS0          | 100         | 5500        | 9.46                | 7.88  | 9.21  | 9.01  | 12.35                     | 11.49   | ≤ 15.98           |
| 11ac-VHT20 | MCS0          | 116         | 5580        | 8.51                | 7.44  | 8.46  | 8.07  | 11.50                     | 10.78   | ≤ 16.02           |
| 11ac-VHT20 | MCS0          | 140         | 5700        | 9.97                | 9.07  | 8.02  | 8.79  | 12.11                     | 11.94   | ≤ 16.02           |
| 11ac-VHT20 | MCS0          | 144         | 5720        | 10.12               | 8.56  | 8.02  | 8.95  | 12.21                     | 11.77   | ≤ 14.80           |
| 11ac-VHT20 | MCS0          | 149         | 5745        | 19.55               | 17.89 | 18.59 | 19.11 | 22.11                     | 21.55   | ≤ 22.52           |
| 11ac-VHT20 | MCS0          | 157         | 5785        | 19.28               | 17.34 | 18.35 | 19.15 | 21.85                     | 21.35   | ≤ 22.52           |
| 11ac-VHT20 | MCS0          | 165         | 5825        | 19.39               | 17.42 | 18.56 | 19.09 | 22.01                     | 21.35   | ≤ 22.52           |

| Test Mode  | Data Rate<br>MCS | Channel No. | Freq.<br>(MHz) | Average Power<br>(dBm) |       |       |       | Total Average Power (dBm) |         | Power Limit<br>(dBm) |
|------------|------------------|-------------|----------------|------------------------|-------|-------|-------|---------------------------|---------|----------------------|
|            |                  |             |                | Ant 0                  | Ant 1 | Ant 2 | Ant 3 | Ant 0+2                   | Ant 1+3 |                      |
| 11ac-VHT40 | MCS0             | 38          | 5190           | 14.47                  | 15.08 | 13.96 | 14.24 | 17.23                     | 17.69   | ≤ 23.10              |
| 11ac-VHT40 | MCS0             | 46          | 5230           | 14.45                  | 14.37 | 14.54 | 14.48 | 17.51                     | 17.44   | ≤ 23.10              |
| 11ac-VHT40 | MCS0             | 54          | 5270           | 12.44                  | 11.58 | 11.12 | 11.57 | 14.84                     | 14.59   | ≤ 16.02              |
| 11ac-VHT40 | MCS0             | 62          | 5310           | 12.17                  | 11.91 | 10.57 | 10.91 | 14.45                     | 14.45   | ≤ 16.02              |
| 11ac-VHT40 | MCS0             | 102         | 5510           | 12.05                  | 10.06 | 11.76 | 11.81 | 14.92                     | 14.03   | ≤ 16.02              |
| 11ac-VHT40 | MCS0             | 110         | 5550           | 11.35                  | 10.08 | 10.97 | 11.31 | 14.17                     | 13.75   | ≤ 16.02              |
| 11ac-VHT40 | MCS0             | 134         | 5670           | 12.11                  | 11.56 | 10.63 | 11.09 | 14.44                     | 14.34   | ≤ 16.02              |
| 11ac-VHT40 | MCS0             | 142         | 5710           | 12.52                  | 11.21 | 10.64 | 11.93 | 14.69                     | 14.60   | ≤ 16.02              |
| 11ac-VHT40 | MCS0             | 151         | 5755           | 19.84                  | 17.96 | 18.59 | 19.48 | 22.27                     | 21.80   | ≤ 22.52              |
| 11ac-VHT40 | MCS0             | 159         | 5795           | 19.76                  | 17.37 | 18.08 | 19.13 | 22.01                     | 21.35   | ≤ 22.52              |
| 11ac-VHT80 | MCS0             | 42          | 5210           | 14.50                  | 15.31 | 14.28 | 14.60 | 17.40                     | 17.98   | ≤ 23.10              |
| 11ac-VHT80 | MCS0             | 58          | 5290           | 13.24                  | 12.52 | 12.03 | 11.98 | 15.69                     | 15.27   | ≤ 16.02              |
| 11ac-VHT80 | MCS0             | 106         | 5530           | 12.59                  | 11.24 | 12.09 | 12.56 | 15.36                     | 14.96   | ≤ 16.02              |
| 11ac-VHT80 | MCS0             | 122         | 5610           | 12.89                  | 11.84 | 11.95 | 12.04 | 15.46                     | 14.95   | ≤ 16.02              |
| 11ac-VHT80 | MCS0             | 138         | 5690           | 13.51                  | 12.54 | 11.80 | 12.73 | 15.75                     | 15.65   | ≤ 16.02              |
| 11ac-VHT80 | MCS0             | 155         | 5775           | 19.79                  | 17.71 | 18.57 | 19.14 | 22.23                     | 21.49   | ≤ 22.52              |
| 11ax-HE20  | MCS0             | 36          | 5180           | 14.64                  | 14.43 | 14.14 | 14.31 | 17.41                     | 17.38   | ≤ 23.10              |
| 11ax-HE20  | MCS0             | 44          | 5220           | 14.71                  | 14.64 | 14.61 | 14.49 | 17.67                     | 17.58   | ≤ 23.10              |
| 11ax-HE20  | MCS0             | 48          | 5240           | 14.94                  | 14.89 | 14.93 | 14.96 | 17.95                     | 17.94   | ≤ 23.10              |
| 11ax-HE20  | MCS0             | 52          | 5260           | 9.53                   | 8.63  | 8.24  | 8.33  | 11.94                     | 11.49   | ≤ 16.02              |
| 11ax-HE20  | MCS0             | 60          | 5300           | 8.98                   | 8.56  | 8.11  | 7.96  | 11.58                     | 11.28   | ≤ 16.02              |
| 11ax-HE20  | MCS0             | 64          | 5320           | 9.03                   | 8.84  | 8.24  | 8.05  | 11.66                     | 11.47   | ≤ 16.02              |
| 11ax-HE20  | MCS0             | 100         | 5500           | 8.86                   | 7.46  | 9.05  | 8.50  | 11.97                     | 11.02   | ≤ 16.02              |
| 11ax-HE20  | MCS0             | 116         | 5580           | 8.48                   | 7.53  | 7.79  | 7.63  | 11.16                     | 10.59   | ≤ 16.02              |
| 11ax-HE20  | MCS0             | 140         | 5700           | 9.34                   | 8.04  | 6.94  | 8.37  | 11.31                     | 11.22   | ≤ 16.02              |
| 11ax-HE20  | MCS0             | 144         | 5720           | 9.31                   | 7.87  | 7.31  | 8.23  | 11.43                     | 11.06   | ≤ 14.98              |
| 11ax-HE20  | MCS0             | 149         | 5745           | 20.12                  | 18.21 | 18.47 | 19.45 | 22.38                     | 21.88   | ≤ 22.52              |
| 11ax-HE20  | MCS0             | 157         | 5785           | 19.67                  | 17.78 | 18.57 | 19.47 | 22.17                     | 21.72   | ≤ 22.52              |
| 11ax-HE20  | MCS0             | 165         | 5825           | 19.35                  | 17.21 | 17.86 | 18.52 | 21.68                     | 20.92   | ≤ 22.52              |

| Test Mode | Data Rate MCS | Channel No. | Freq. (MHz) | Average Power (dBm) |       |       |       | Total Average Power (dBm) |         | Power Limit (dBm) |
|-----------|---------------|-------------|-------------|---------------------|-------|-------|-------|---------------------------|---------|-------------------|
|           |               |             |             | Ant 0               | Ant 1 | Ant 2 | Ant 3 | Ant 0+2                   | Ant 1+3 |                   |
| 11ax-HE40 | MCS0          | 38          | 5190        | 15.12               | 14.96 | 14.78 | 14.94 | 17.96                     | 17.96   | ≤ 23.10           |
| 11ax-HE40 | MCS0          | 46          | 5230        | 14.66               | 15.36 | 14.81 | 14.65 | 17.75                     | 18.03   | ≤ 23.10           |
| 11ax-HE40 | MCS0          | 54          | 5270        | 11.95               | 11.52 | 10.72 | 11.08 | 14.39                     | 14.32   | ≤ 16.02           |
| 11ax-HE40 | MCS0          | 62          | 5310        | 11.45               | 10.98 | 9.56  | 10.14 | 13.62                     | 13.59   | ≤ 16.02           |
| 11ax-HE40 | MCS0          | 102         | 5510        | 11.51               | 9.62  | 10.91 | 11.17 | 14.23                     | 13.47   | ≤ 16.02           |
| 11ax-HE40 | MCS0          | 110         | 5550        | 10.71               | 9.66  | 10.37 | 10.52 | 13.55                     | 13.12   | ≤ 16.02           |
| 11ax-HE40 | MCS0          | 134         | 5670        | 12.26               | 11.45 | 10.25 | 10.81 | 14.38                     | 14.15   | ≤ 16.02           |
| 11ax-HE40 | MCS0          | 142         | 5710        | 11.91               | 10.75 | 10.57 | 11.28 | 14.30                     | 14.03   | ≤ 16.02           |
| 11ax-HE40 | MCS0          | 151         | 5755        | 19.78               | 17.98 | 18.54 | 19.51 | 22.21                     | 21.82   | ≤ 22.52           |
| 11ax-HE40 | MCS0          | 159         | 5795        | 19.46               | 17.31 | 18.46 | 19.23 | 22.00                     | 21.39   | ≤ 22.52           |
| 11ax-HE80 | MCS0          | 42          | 5210        | 14.45               | 15.03 | 14.34 | 14.42 | 17.41                     | 17.75   | ≤ 23.10           |
| 11ax-HE80 | MCS0          | 58          | 5290        | 12.27               | 12.66 | 13.39 | 11.98 | 15.88                     | 15.34   | ≤ 16.02           |
| 11ax-HE80 | MCS0          | 106         | 5530        | 12.42               | 11.38 | 12.05 | 12.81 | 15.25                     | 15.16   | ≤ 16.02           |
| 11ax-HE80 | MCS0          | 122         | 5610        | 13.11               | 12.28 | 12.40 | 12.55 | 15.78                     | 15.43   | ≤ 16.02           |
| 11ax-HE80 | MCS0          | 138         | 5690        | 13.57               | 12.78 | 11.84 | 12.54 | 15.80                     | 15.67   | ≤ 16.02           |
| 11ax-HE80 | MCS0          | 155         | 5775        | 19.76               | 17.86 | 18.60 | 19.23 | 22.23                     | 21.61   | ≤ 22.52           |

Note 1:

Ant 0+2 Total Average Power (dBm) =  $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)}\}$ .

Ant 1+3 Total Average Power (dBm) =  $10 \cdot \log \{10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$ .

Note 2:

For 5150-5250MHz & 5725-5850MHz, Average Power Limit = 30 - (Ant Gain - 6).

For 5250-5350MHz & 5470-5725MHz, Average Power Limit =  $\text{Min}\{23.98, 11 + 10 \log_{10}(26 \text{dBc})\}$  - (Ant Gain - 6).

For straddle channel, Average Power Limit =  $11 + 10 \cdot \log(5 + 26 \text{dBc} / 2)$  - (Ant Gain - 6).

|           |                          |                   |                   |
|-----------|--------------------------|-------------------|-------------------|
| Test Site | SIP-TR1                  | Test Engineer     | Alisa Deng        |
| Test Date | 2023-10-17~2023-10-25    | Antenna Model No. | KDP2N-D2458L13BWB |
| Test Item | 30° Elevation Angle EIRP |                   |                   |

| Test Mode  | Data Rate<br>MCS | Channel No. | Freq.<br>(MHz) | Average Power<br>(dBm) |       |       |       | 30° EIRP<br>(dBm) |         | Power Limit<br>(dBm) |
|------------|------------------|-------------|----------------|------------------------|-------|-------|-------|-------------------|---------|----------------------|
|            |                  |             |                | Ant 0                  | Ant 1 | Ant 2 | Ant 3 | Ant 0+2           | Ant 1+3 |                      |
| 11a        | 6Mbps            | 36          | 5180           | 14.67                  | 15.18 | 14.11 | 14.05 | 20.31             | 20.56   | ≤ 21.00              |
| 11a        | 6Mbps            | 44          | 5220           | 14.56                  | 15.24 | 14.34 | 14.67 | 20.36             | 20.87   | ≤ 21.00              |
| 11a        | 6Mbps            | 48          | 5240           | 14.22                  | 15.13 | 14.58 | 14.52 | 20.31             | 20.75   | ≤ 21.00              |
| 11ac-VHT20 | MCS0             | 36          | 5180           | 14.33                  | 15.11 | 13.65 | 14.17 | 19.91             | 20.58   | ≤ 21.00              |
| 11ac-VHT20 | MCS0             | 44          | 5220           | 14.51                  | 15.18 | 14.21 | 14.58 | 20.27             | 20.80   | ≤ 21.00              |
| 11ac-VHT20 | MCS0             | 48          | 5240           | 14.17                  | 14.87 | 14.27 | 14.22 | 20.13             | 20.47   | ≤ 21.00              |
| 11ac-VHT40 | MCS0             | 38          | 5190           | 14.47                  | 15.08 | 13.96 | 14.24 | 20.13             | 20.59   | ≤ 21.00              |
| 11ac-VHT40 | MCS0             | 46          | 5230           | 14.45                  | 14.37 | 14.54 | 14.48 | 20.41             | 20.34   | ≤ 21.00              |
| 11ac-VHT80 | MCS0             | 42          | 5210           | 14.50                  | 15.31 | 14.28 | 14.60 | 20.30             | 20.88   | ≤ 21.00              |
| 11ax-HE20  | MCS0             | 36          | 5180           | 14.64                  | 14.43 | 14.14 | 14.31 | 20.31             | 20.28   | ≤ 21.00              |
| 11ax-HE20  | MCS0             | 44          | 5220           | 14.71                  | 14.64 | 14.61 | 14.49 | 20.57             | 20.48   | ≤ 21.00              |
| 11ax-HE20  | MCS0             | 48          | 5240           | 14.94                  | 14.89 | 14.93 | 14.96 | 20.85             | 20.84   | ≤ 21.00              |
| 11ax-HE40  | MCS0             | 38          | 5190           | 15.12                  | 14.96 | 14.78 | 14.94 | 20.86             | 20.86   | ≤ 21.00              |
| 11ax-HE40  | MCS0             | 46          | 5230           | 14.66                  | 15.36 | 14.81 | 14.65 | 20.65             | 20.93   | ≤ 21.00              |
| 11ax-HE80  | MCS0             | 42          | 5210           | 14.45                  | 15.03 | 14.34 | 14.42 | 20.31             | 20.65   | ≤ 21.00              |

Note:

Ant 0+2 30° EIRP (dBm) =  $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)}\} + 30^\circ \text{ Ant Gain.}$

Ant 1+3 30° EIRP (dBm) =  $10 \cdot \log \{10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\} + 30^\circ \text{ Ant Gain.}$

|           |                       |                   |            |
|-----------|-----------------------|-------------------|------------|
| Test Site | SIP-TR1               | Test Engineer     | Alisa Deng |
| Test Date | 2023-10-17~2023-10-25 | Antenna Model No. | TQJ-2458D9 |

| Test Mode  | Data Rate<br>MCS | Channel No. | Freq.<br>(MHz) | Average Power<br>(dBm) |       |       |       | Total Average Power<br>(dBm) | Power Limit<br>(dBm) |
|------------|------------------|-------------|----------------|------------------------|-------|-------|-------|------------------------------|----------------------|
|            |                  |             |                | Ant 0                  | Ant 1 | Ant 2 | Ant 3 |                              |                      |
| 11a        | 6Mbps            | 36          | 5180           | 7.43                   | 6.98  | 6.73  | 7.38  | 13.16                        | ≤ 28.73              |
| 11a        | 6Mbps            | 44          | 5220           | 7.11                   | 6.75  | 6.94  | 7.15  | 13.01                        | ≤ 28.73              |
| 11a        | 6Mbps            | 48          | 5240           | 6.94                   | 7.35  | 7.21  | 6.76  | 13.09                        | ≤ 28.73              |
| 11a        | 6Mbps            | 52          | 5260           | 6.47                   | 6.26  | 5.98  | 6.14  | 12.24                        | ≤ 19.91              |
| 11a        | 6Mbps            | 60          | 5300           | 6.36                   | 6.37  | 6.31  | 6.26  | 12.35                        | ≤ 19.91              |
| 11a        | 6Mbps            | 64          | 5320           | 6.23                   | 6.41  | 6.36  | 6.25  | 12.33                        | ≤ 19.89              |
| 11a        | 6Mbps            | 100         | 5500           | 5.95                   | 5.49  | 6.33  | 5.44  | 11.84                        | ≤ 19.85              |
| 11a        | 6Mbps            | 116         | 5580           | 7.08                   | 6.53  | 7.56  | 6.84  | 13.04                        | ≤ 19.93              |
| 11a        | 6Mbps            | 140         | 5700           | 6.35                   | 5.66  | 6.12  | 6.18  | 12.11                        | ≤ 19.85              |
| 11a        | 6Mbps            | 144         | 5720           | 5.72                   | 5.67  | 5.96  | 6.43  | 11.98                        | ≤ 18.66              |
| 11a        | 6Mbps            | 149         | 5745           | 20.05                  | 19.86 | 20.23 | 20.00 | 26.06                        | ≤ 26.60              |
| 11a        | 6Mbps            | 157         | 5785           | 19.82                  | 20.25 | 20.61 | 20.95 | 26.45                        | ≤ 26.60              |
| 11a        | 6Mbps            | 165         | 5825           | 19.98                  | 20.11 | 20.17 | 20.42 | 26.19                        | ≤ 26.60              |
| 11ac-VHT20 | MCS0             | 36          | 5180           | 7.24                   | 7.76  | 6.86  | 7.40  | 13.35                        | ≤ 28.73              |
| 11ac-VHT20 | MCS0             | 44          | 5220           | 6.91                   | 7.43  | 6.65  | 7.12  | 13.06                        | ≤ 28.73              |
| 11ac-VHT20 | MCS0             | 48          | 5240           | 6.68                   | 7.37  | 7.06  | 6.75  | 12.99                        | ≤ 28.73              |
| 11ac-VHT20 | MCS0             | 52          | 5260           | 5.95                   | 5.81  | 5.86  | 5.46  | 11.79                        | ≤ 20.06              |
| 11ac-VHT20 | MCS0             | 60          | 5300           | 6.27                   | 6.16  | 6.04  | 5.76  | 12.08                        | ≤ 20.04              |
| 11ac-VHT20 | MCS0             | 64          | 5320           | 6.39                   | 6.31  | 6.40  | 5.90  | 12.28                        | ≤ 20.06              |
| 11ac-VHT20 | MCS0             | 100         | 5500           | 6.54                   | 6.41  | 6.77  | 6.33  | 12.54                        | ≤ 20.02              |
| 11ac-VHT20 | MCS0             | 116         | 5580           | 5.85                   | 5.41  | 6.21  | 5.61  | 11.80                        | ≤ 20.06              |
| 11ac-VHT20 | MCS0             | 140         | 5700           | 5.92                   | 6.13  | 6.59  | 5.73  | 12.13                        | ≤ 20.06              |
| 11ac-VHT20 | MCS0             | 144         | 5720           | 5.87                   | 5.89  | 6.45  | 5.81  | 12.03                        | ≤ 18.84              |
| 11ac-VHT20 | MCS0             | 149         | 5745           | 20.08                  | 19.96 | 20.49 | 20.86 | 26.38                        | ≤ 26.60              |
| 11ac-VHT20 | MCS0             | 157         | 5785           | 19.86                  | 20.26 | 20.56 | 20.97 | 26.45                        | ≤ 26.60              |
| 11ac-VHT20 | MCS0             | 165         | 5825           | 19.78                  | 20.21 | 19.63 | 20.35 | 26.02                        | ≤ 26.60              |

| Test Mode  | Data Rate<br>MCS | Channel No. | Freq.<br>(MHz) | Average Power<br>(dBm) |       |       |       | Total Average Power<br>(dBm) | Power Limit<br>(dBm) |
|------------|------------------|-------------|----------------|------------------------|-------|-------|-------|------------------------------|----------------------|
|            |                  |             |                | Ant 0                  | Ant 1 | Ant 2 | Ant 3 |                              |                      |
| 11ac-VHT40 | MCS0             | 38          | 5190           | 7.30                   | 7.68  | 6.86  | 7.56  | 13.38                        | ≤ 28.73              |
| 11ac-VHT40 | MCS0             | 46          | 5230           | 7.07                   | 7.58  | 7.24  | 7.14  | 13.28                        | ≤ 28.73              |
| 11ac-VHT40 | MCS0             | 54          | 5270           | 9.67                   | 9.59  | 9.48  | 9.35  | 15.54                        | ≤ 20.06              |
| 11ac-VHT40 | MCS0             | 62          | 5310           | 9.32                   | 9.41  | 9.55  | 9.28  | 15.41                        | ≤ 20.06              |
| 11ac-VHT40 | MCS0             | 102         | 5510           | 8.14                   | 7.66  | 8.27  | 9.10  | 14.34                        | ≤ 20.06              |
| 11ac-VHT40 | MCS0             | 110         | 5550           | 8.73                   | 9.12  | 9.92  | 9.49  | 15.36                        | ≤ 20.06              |
| 11ac-VHT40 | MCS0             | 134         | 5670           | 9.32                   | 8.74  | 9.05  | 9.31  | 15.13                        | ≤ 20.06              |
| 11ac-VHT40 | MCS0             | 142         | 5710           | 9.17                   | 8.71  | 9.45  | 9.76  | 15.31                        | ≤ 20.06              |
| 11ac-VHT40 | MCS0             | 151         | 5755           | 20.29                  | 19.92 | 20.45 | 21.13 | 26.49                        | ≤ 26.60              |
| 11ac-VHT40 | MCS0             | 159         | 5795           | 19.89                  | 20.17 | 20.45 | 20.81 | 26.36                        | ≤ 26.60              |
| 11ac-VHT80 | MCS0             | 42          | 5210           | 7.31                   | 7.62  | 7.04  | 7.25  | 13.33                        | ≤ 28.73              |
| 11ac-VHT80 | MCS0             | 58          | 5290           | 12.32                  | 12.47 | 12.63 | 12.55 | 18.51                        | ≤ 20.06              |
| 11ac-VHT80 | MCS0             | 106         | 5530           | 12.69                  | 12.23 | 13.04 | 12.56 | 18.66                        | ≤ 20.06              |
| 11ac-VHT80 | MCS0             | 122         | 5610           | 12.84                  | 11.96 | 12.73 | 12.38 | 18.51                        | ≤ 20.06              |
| 11ac-VHT80 | MCS0             | 138         | 5690           | 12.51                  | 11.71 | 12.18 | 12.23 | 18.19                        | ≤ 20.06              |
| 11ac-VHT80 | MCS0             | 155         | 5775           | 19.63                  | 20.01 | 20.38 | 20.49 | 26.16                        | ≤ 26.60              |
| 11ax-HE20  | MCS0             | 36          | 5180           | 7.45                   | 7.97  | 6.81  | 7.74  | 13.53                        | ≤ 28.73              |
| 11ax-HE20  | MCS0             | 44          | 5220           | 7.26                   | 7.70  | 7.12  | 7.28  | 13.37                        | ≤ 28.73              |
| 11ax-HE20  | MCS0             | 48          | 5240           | 6.98                   | 7.55  | 7.44  | 7.14  | 13.30                        | ≤ 28.73              |
| 11ax-HE20  | MCS0             | 52          | 5260           | 6.67                   | 6.39  | 6.36  | 6.16  | 12.42                        | ≤ 20.06              |
| 11ax-HE20  | MCS0             | 60          | 5300           | 6.73                   | 6.50  | 6.39  | 6.52  | 12.56                        | ≤ 20.06              |
| 11ax-HE20  | MCS0             | 64          | 5320           | 6.55                   | 6.65  | 6.71  | 6.48  | 12.62                        | ≤ 20.06              |
| 11ax-HE20  | MCS0             | 100         | 5500           | 7.16                   | 6.80  | 7.35  | 6.94  | 13.09                        | ≤ 20.06              |
| 11ax-HE20  | MCS0             | 116         | 5580           | 7.39                   | 6.61  | 7.68  | 6.92  | 13.19                        | ≤ 20.06              |
| 11ax-HE20  | MCS0             | 140         | 5700           | 7.28                   | 6.92  | 7.08  | 7.63  | 13.26                        | ≤ 20.06              |
| 11ax-HE20  | MCS0             | 144         | 5720           | 6.92                   | 6.79  | 7.08  | 7.31  | 13.05                        | ≤ 19.02              |
| 11ax-HE20  | MCS0             | 149         | 5745           | 20.06                  | 20.23 | 20.36 | 20.86 | 26.41                        | ≤ 26.60              |
| 11ax-HE20  | MCS0             | 157         | 5785           | 19.35                  | 19.63 | 20.14 | 20.30 | 25.89                        | ≤ 26.60              |
| 11ax-HE20  | MCS0             | 165         | 5825           | 19.21                  | 19.47 | 19.29 | 19.43 | 25.37                        | ≤ 26.60              |

| Test Mode | Data Rate MCS | Channel No. | Freq. (MHz) | Average Power (dBm) |       |       |       | Total Average Power (dBm) | Power Limit (dBm) |
|-----------|---------------|-------------|-------------|---------------------|-------|-------|-------|---------------------------|-------------------|
|           |               |             |             | Ant 0               | Ant 1 | Ant 2 | Ant 3 |                           |                   |
| 11ax-HE40 | MCS0          | 38          | 5190        | 7.55                | 7.97  | 7.24  | 7.67  | 13.64                     | ≤ 28.73           |
| 11ax-HE40 | MCS0          | 46          | 5230        | 7.19                | 7.62  | 7.48  | 7.26  | 13.41                     | ≤ 28.73           |
| 11ax-HE40 | MCS0          | 54          | 5270        | 9.81                | 9.71  | 9.62  | 9.54  | 15.69                     | ≤ 20.06           |
| 11ax-HE40 | MCS0          | 62          | 5310        | 8.79                | 8.92  | 8.98  | 8.57  | 14.84                     | ≤ 20.06           |
| 11ax-HE40 | MCS0          | 102         | 5510        | 9.48                | 8.58  | 9.36  | 9.25  | 15.20                     | ≤ 20.06           |
| 11ax-HE40 | MCS0          | 110         | 5550        | 9.67                | 9.23  | 9.15  | 9.64  | 15.45                     | ≤ 20.06           |
| 11ax-HE40 | MCS0          | 134         | 5670        | 10.22               | 9.29  | 9.96  | 10.16 | 15.94                     | ≤ 20.06           |
| 11ax-HE40 | MCS0          | 142         | 5710        | 9.31                | 8.93  | 9.53  | 9.83  | 15.43                     | ≤ 20.06           |
| 11ax-HE40 | MCS0          | 151         | 5755        | 19.51               | 19.25 | 19.89 | 20.37 | 25.80                     | ≤ 26.60           |
| 11ax-HE40 | MCS0          | 159         | 5795        | 19.39               | 19.62 | 19.82 | 20.02 | 25.74                     | ≤ 26.60           |
| 11ax-HE80 | MCS0          | 42          | 5210        | 7.58                | 7.26  | 7.51  | 7.55  | 13.50                     | ≤ 28.73           |
| 11ax-HE80 | MCS0          | 58          | 5290        | 12.75               | 12.82 | 12.72 | 12.64 | 18.75                     | ≤ 20.06           |
| 11ax-HE80 | MCS0          | 106         | 5530        | 13.01               | 12.43 | 13.28 | 12.91 | 18.94                     | ≤ 20.06           |
| 11ax-HE80 | MCS0          | 122         | 5610        | 12.75               | 12.87 | 12.84 | 12.73 | 18.82                     | ≤ 20.06           |
| 11ax-HE80 | MCS0          | 138         | 5690        | 12.65               | 11.85 | 12.31 | 12.65 | 18.40                     | ≤ 20.06           |
| 11ax-HE80 | MCS0          | 155         | 5775        | 19.29               | 19.32 | 19.69 | 20.14 | 25.64                     | ≤ 26.60           |

Note 1: Total Average Power (dBm) =  $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$ .

Note 2:

For 5150-5250MHz & 5725-5850MHz, Average Power Limit = 30 - (Ant Gain - 6).

For 5250-5350MHz & 5470-5725MHz, Average Power Limit =  $\text{Min}\{23.98, 11+10\log_{10}(26\text{dBc})\}$  - (Ant Gain - 6).

For straddle channel, Average Power Limit =  $11+10 \cdot \log(5+26\text{dBc}/2)$  - (Ant Gain - 6).

|           |                       |                   |            |
|-----------|-----------------------|-------------------|------------|
| Test Site | SIP-TR1               | Test Engineer     | Alisa Deng |
| Test Date | 2023-10-17~2023-10-25 | Antenna Model No. | TQJ-2458D9 |
| Test Item | 30° EIRP              |                   |            |

| Test Mode  | Data Rate<br>MCS | Channel No. | Freq. (MHz) | Average Power (dBm) |       |       |       | 30° EIRP (dBm) | Power Limit (dBm) |
|------------|------------------|-------------|-------------|---------------------|-------|-------|-------|----------------|-------------------|
|            |                  |             |             | Ant 0               | Ant 1 | Ant 2 | Ant 3 |                |                   |
| 11a        | 6Mbps            | 36          | 5180        | 7.43                | 6.98  | 6.73  | 7.38  | 20.43          | ≤ 21.00           |
| 11a        | 6Mbps            | 44          | 5220        | 7.11                | 6.75  | 6.94  | 7.15  | 20.28          | ≤ 21.00           |
| 11a        | 6Mbps            | 48          | 5240        | 6.94                | 7.35  | 7.21  | 6.76  | 20.36          | ≤ 21.00           |
| 11ac-VHT20 | MCS0             | 36          | 5180        | 7.24                | 7.76  | 6.86  | 7.40  | 20.62          | ≤ 21.00           |
| 11ac-VHT20 | MCS0             | 44          | 5220        | 6.91                | 7.43  | 6.65  | 7.12  | 20.33          | ≤ 21.00           |
| 11ac-VHT20 | MCS0             | 48          | 5240        | 6.68                | 7.37  | 7.06  | 6.75  | 20.26          | ≤ 21.00           |
| 11ac-VHT40 | MCS0             | 38          | 5190        | 7.30                | 7.68  | 6.86  | 7.56  | 20.65          | ≤ 21.00           |
| 11ac-VHT40 | MCS0             | 46          | 5230        | 7.07                | 7.58  | 7.24  | 7.14  | 20.55          | ≤ 21.00           |
| 11ac-VHT80 | MCS0             | 42          | 5210        | 7.31                | 7.62  | 7.04  | 7.25  | 20.60          | ≤ 21.00           |
| 11ax-HE20  | MCS0             | 36          | 5180        | 7.45                | 7.97  | 6.81  | 7.74  | 20.80          | ≤ 21.00           |
| 11ax-HE20  | MCS0             | 44          | 5220        | 7.26                | 7.70  | 7.12  | 7.28  | 20.64          | ≤ 21.00           |
| 11ax-HE20  | MCS0             | 48          | 5240        | 6.98                | 7.55  | 7.44  | 7.14  | 20.57          | ≤ 21.00           |
| 11ax-HE40  | MCS0             | 38          | 5190        | 7.55                | 7.97  | 7.24  | 7.67  | 20.91          | ≤ 21.00           |
| 11ax-HE40  | MCS0             | 46          | 5230        | 7.19                | 7.62  | 7.48  | 7.26  | 20.68          | ≤ 21.00           |
| 11ax-HE80  | MCS0             | 42          | 5210        | 7.58                | 7.26  | 7.51  | 7.55  | 20.77          | ≤ 21.00           |

Note 1: Total Average Power (dBm) =  $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\} + 30^\circ \text{ Ant Gain.}$

### A.5 Power Spectral Density Test Result

|           |                                                          |                   |                   |
|-----------|----------------------------------------------------------|-------------------|-------------------|
| Test Site | SIP-TR1                                                  | Test Engineer     | Alisa Deng        |
| Test Date | 2023-10-17~2023-10-25                                    | Antenna Model No. | KDP2N-D2458L13BWB |
| Test Item | Power Spectral Density (UNII-Band 1 & UNII-2a & UNII-2c) |                   |                   |

| Test Mode  | Data Rate/<br>MCS | Channel No. | Freq. (MHz) | AVPSD (dBm/ MHz) |       |       |       | Duty Cycle (%) | Total PSD (dBm/ MHz) |         | PSD Limit (dBm/MHz) |
|------------|-------------------|-------------|-------------|------------------|-------|-------|-------|----------------|----------------------|---------|---------------------|
|            |                   |             |             | Ant 0            | Ant 1 | Ant 2 | Ant 3 |                | Ant 0+2              | Ant 1+3 |                     |
| 11a        | 6Mbps             | 36          | 5180        | 1.53             | 2.06  | 0.88  | 2.40  | 95.62          | 4.42                 | 5.44    | ≤ 7.09              |
| 11a        | 6Mbps             | 44          | 5220        | 2.91             | 3.52  | 2.63  | 3.01  | 95.62          | 5.98                 | 6.48    | ≤ 7.09              |
| 11a        | 6Mbps             | 48          | 5240        | 2.20             | 3.05  | 2.63  | 2.67  | 95.62          | 5.62                 | 6.07    | ≤ 7.09              |
| 11a        | 6Mbps             | 52          | 5260        | -3.50            | -3.21 | -3.66 | -3.65 | 95.62          | -0.37                | -0.22   | ≤ 0.03              |
| 11a        | 6Mbps             | 60          | 5300        | -3.58            | -3.48 | -3.61 | -3.50 | 95.62          | -0.39                | -0.29   | ≤ 0.03              |
| 11a        | 6Mbps             | 64          | 5320        | -3.71            | -3.71 | -3.40 | -3.47 | 95.62          | -0.35                | -0.38   | ≤ 0.03              |
| 11a        | 6Mbps             | 100         | 5500        | -3.54            | -4.24 | -3.53 | -4.21 | 95.62          | -0.33                | -1.02   | ≤ 0.03              |
| 11a        | 6Mbps             | 116         | 5580        | -3.38            | -4.51 | -3.29 | -3.65 | 95.62          | -0.13                | -0.85   | ≤ 0.03              |
| 11a        | 6Mbps             | 140         | 5700        | -4.61            | -5.09 | -4.50 | -3.32 | 95.62          | -1.35                | -0.91   | ≤ 0.03              |
| 11a        | 6Mbps             | 144         | 5720        | -4.62            | -4.96 | -4.59 | -3.18 | 95.62          | -1.40                | -0.78   | ≤ 0.03              |
| 11ac-VHT20 | MCS0              | 36          | 5180        | 1.89             | 2.60  | 1.67  | 1.82  | 93.57          | 5.08                 | 5.52    | ≤ 7.09              |
| 11ac-VHT20 | MCS0              | 44          | 5220        | 2.00             | 2.87  | 1.70  | 2.28  | 93.57          | 5.15                 | 5.88    | ≤ 7.09              |
| 11ac-VHT20 | MCS0              | 48          | 5240        | 2.04             | 2.65  | 2.54  | 2.04  | 93.57          | 5.59                 | 5.66    | ≤ 7.09              |
| 11ac-VHT20 | MCS0              | 52          | 5260        | -3.90            | -3.58 | -4.61 | -3.92 | 93.57          | -0.94                | -0.45   | ≤ 0.03              |
| 11ac-VHT20 | MCS0              | 60          | 5300        | -4.45            | -3.85 | -3.98 | -4.00 | 93.57          | -0.91                | -0.62   | ≤ 0.03              |
| 11ac-VHT20 | MCS0              | 64          | 5320        | -3.47            | -3.44 | -3.47 | -3.76 | 93.57          | -0.17                | -0.30   | ≤ 0.03              |
| 11ac-VHT20 | MCS0              | 100         | 5500        | -3.25            | -3.67 | -3.63 | -3.31 | 93.57          | -0.14                | -0.18   | ≤ 0.03              |
| 11ac-VHT20 | MCS0              | 116         | 5580        | -3.69            | -5.32 | -3.99 | -5.09 | 93.57          | -0.54                | -1.90   | ≤ 0.03              |
| 11ac-VHT20 | MCS0              | 140         | 5700        | -4.08            | -4.76 | -4.27 | -3.50 | 93.57          | -0.88                | -0.79   | ≤ 0.03              |
| 11ac-VHT20 | MCS0              | 144         | 5720        | -4.97            | -4.96 | -3.37 | -2.82 | 93.57          | -0.80                | -0.46   | ≤ 0.03              |
| 11ac-VHT40 | MCS0              | 38          | 5190        | -0.64            | 0.14  | -1.18 | -0.93 | 91.71          | 2.49                 | 3.03    | ≤ 7.09              |
| 11ac-VHT40 | MCS0              | 46          | 5230        | -0.54            | 0.41  | -0.32 | -0.49 | 91.71          | 2.96                 | 3.37    | ≤ 7.09              |
| 11ac-VHT40 | MCS0              | 54          | 5270        | -3.79            | -4.23 | -4.05 | -4.33 | 91.71          | -0.53                | -0.89   | ≤ 0.03              |
| 11ac-VHT40 | MCS0              | 62          | 5310        | -3.46            | -3.04 | -3.88 | -4.22 | 91.71          | -0.28                | -0.20   | ≤ 0.03              |
| 11ac-VHT40 | MCS0              | 102         | 5510        | -3.66            | -5.36 | -4.34 | -3.63 | 91.71          | -0.60                | -1.02   | ≤ 0.03              |
| 11ac-VHT40 | MCS0              | 110         | 5550        | -3.94            | -5.09 | -3.86 | -3.86 | 91.71          | -0.52                | -1.05   | ≤ 0.03              |
| 11ac-VHT40 | MCS0              | 134         | 5670        | -3.30            | -4.05 | -3.91 | -3.92 | 91.71          | -0.21                | -0.60   | ≤ 0.03              |
| 11ac-VHT40 | MCS0              | 142         | 5710        | -3.27            | -4.30 | -4.19 | -3.55 | 91.71          | -0.32                | -0.52   | ≤ 0.03              |

| Test Mode  | Data Rate/<br>MCS | Channel No. | Freq. (MHz) | AVPSD (dBm/ MHz) |       |       |       | Duty Cycle (%) | Total PSD (dBm/ MHz) |         | PSD Limit (dBm/MHz) |
|------------|-------------------|-------------|-------------|------------------|-------|-------|-------|----------------|----------------------|---------|---------------------|
|            |                   |             |             | Ant 0            | Ant 1 | Ant 2 | Ant 3 |                | Ant 0,2              | Ant 1,3 |                     |
| 11ac-VHT80 | MCS0              | 42          | 5210        | -3.71            | -2.69 | -3.63 | -3.46 | 92.64          | -0.33                | 0.28    | ≤ 7.09              |
| 11ac-VHT80 | MCS0              | 58          | 5290        | -5.40            | -5.50 | -6.54 | -6.25 | 92.64          | -2.59                | -2.52   | ≤ 0.03              |
| 11ac-VHT80 | MCS0              | 106         | 5530        | -5.89            | -7.46 | -6.03 | -6.24 | 92.64          | -2.62                | -3.46   | ≤ 0.03              |
| 11ac-VHT80 | MCS0              | 122         | 5610        | -5.14            | -6.38 | -6.23 | -6.25 | 92.64          | -2.31                | -2.97   | ≤ 0.03              |
| 11ac-VHT80 | MCS0              | 138         | 5690        | -4.63            | -5.62 | -6.01 | -5.83 | 92.64          | -1.92                | -2.38   | ≤ 0.03              |
| 11ax-HE20  | MCS0              | 36          | 5180        | 2.05             | 2.72  | 1.26  | 2.16  | 95.10          | 4.90                 | 5.68    | ≤ 7.09              |
| 11ax-HE20  | MCS0              | 44          | 5220        | 2.14             | 2.92  | 2.23  | 2.17  | 95.10          | 5.41                 | 5.79    | ≤ 7.09              |
| 11ax-HE20  | MCS0              | 48          | 5240        | 2.73             | 3.32  | 2.89  | 2.73  | 95.10          | 6.04                 | 6.26    | ≤ 7.09              |
| 11ax-HE20  | MCS0              | 52          | 5260        | -3.51            | -3.94 | -4.39 | -4.03 | 95.10          | -0.70                | -0.75   | ≤ 0.03              |
| 11ax-HE20  | MCS0              | 60          | 5300        | -3.51            | -3.33 | -4.48 | -4.27 | 95.10          | -0.74                | -0.55   | ≤ 0.03              |
| 11ax-HE20  | MCS0              | 64          | 5320        | -3.69            | -3.44 | -4.05 | -4.48 | 95.10          | -0.64                | -0.70   | ≤ 0.03              |
| 11ax-HE20  | MCS0              | 100         | 5500        | -3.76            | -4.95 | -3.63 | -3.77 | 95.10          | -0.46                | -1.09   | ≤ 0.03              |
| 11ax-HE20  | MCS0              | 116         | 5580        | -4.46            | -5.56 | -3.73 | -4.63 | 95.10          | -0.85                | -1.84   | ≤ 0.03              |
| 11ax-HE20  | MCS0              | 140         | 5700        | -3.39            | -4.59 | -4.43 | -4.09 | 95.10          | -0.65                | -1.10   | ≤ 0.03              |
| 11ax-HE20  | MCS0              | 144         | 5720        | -3.47            | -4.63 | -4.71 | -4.06 | 95.10          | -0.82                | -1.10   | ≤ 0.03              |
| 11ax-HE40  | MCS0              | 38          | 5190        | -0.09            | 0.51  | -0.53 | -0.33 | 93.30          | 3.01                 | 3.42    | ≤ 7.09              |
| 11ax-HE40  | MCS0              | 46          | 5230        | -0.47            | 0.43  | -0.47 | -0.61 | 93.30          | 2.84                 | 3.25    | ≤ 7.09              |
| 11ax-HE40  | MCS0              | 54          | 5270        | -3.18            | -3.67 | -3.61 | -4.09 | 93.30          | -0.08                | -0.56   | ≤ 0.03              |
| 11ax-HE40  | MCS0              | 62          | 5310        | -3.56            | -3.54 | -4.05 | -4.52 | 93.30          | -0.49                | -0.69   | ≤ 0.03              |
| 11ax-HE40  | MCS0              | 102         | 5510        | -3.93            | -5.67 | -3.75 | -3.86 | 93.30          | -0.52                | -1.36   | ≤ 0.03              |
| 11ax-HE40  | MCS0              | 110         | 5550        | -4.42            | -5.71 | -4.03 | -4.38 | 93.30          | -0.91                | -1.68   | ≤ 0.03              |
| 11ax-HE40  | MCS0              | 134         | 5670        | -3.49            | -3.98 | -4.36 | -4.01 | 93.30          | -0.60                | -0.69   | ≤ 0.03              |
| 11ax-HE40  | MCS0              | 142         | 5710        | -3.43            | -4.62 | -4.19 | -3.84 | 93.30          | -0.48                | -0.90   | ≤ 0.03              |
| 11ax-HE80  | MCS0              | 42          | 5210        | -3.66            | -2.91 | -3.76 | -3.76 | 94.43          | -0.45                | -0.05   | ≤ 7.09              |
| 11ax-HE80  | MCS0              | 58          | 5290        | -5.72            | -5.02 | -4.55 | -5.59 | 94.43          | -1.83                | -2.03   | ≤ 0.03              |
| 11ax-HE80  | MCS0              | 106         | 5530        | -5.68            | -5.97 | -6.09 | -5.34 | 94.43          | -2.62                | -2.39   | ≤ 0.03              |
| 11ax-HE80  | MCS0              | 122         | 5610        | -5.22            | -6.24 | -5.62 | -5.52 | 94.43          | -2.16                | -2.61   | ≤ 0.03              |
| 11ax-HE80  | MCS0              | 138         | 5690        | -4.76            | -5.52 | -5.77 | -5.31 | 94.43          | -1.98                | -2.16   | ≤ 0.03              |

Note 1:

When EUT duty cycle < 98%,

Ant 0+2 total PSD (dBm/MHz) =  $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)}\} + 10 \cdot \log (1/\text{Duty cycle})$ ,

Ant 1+3 total PSD (dBm/MHz) =  $10 \cdot \log \{10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)}\} + 10 \cdot \log (1/\text{Duty cycle})$ .

When EUT duty cycle ≥ 98%,

Ant 0+2 total PSD (dBm/MHz) =  $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)}\}$ ,

Ant 1+3 total PSD (dBm/MHz) =  $10 \cdot \log \{10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)}\}$ .

Note 2:

For 5125 - 5250MHz Band: PSD Limit (dBm/MHz) =  $17 - (15.91 - 6) = 7.09\text{dBm/MHz}$ .

For 5250 - 5350MHz & 5470 - 5725MHz Band: Average Power Limit (dBm) =  $11 - (16.97 - 6) = 0.03\text{dBm/MHz}$ .

|           |                                      |                   |                   |
|-----------|--------------------------------------|-------------------|-------------------|
| Test Site | SIP-TR1                              | Test Engineer     | Alisa Deng        |
| Test Date | 2023-10-19~2023-10-23                | Antenna Model No. | KDP2N-D2458L13BWB |
| Test Item | Power Spectral Density (UNII-Band 3) |                   |                   |

| Test Mode  | Data Rate/<br>MCS | Channel No. | Freq. (MHz) | AVPSD (dBm/ 510kHz) |       |       |       | Duty Cycle (%) | Total PSD (dBm/ 510kHz) |         | PSD Limit (dBm/ 500kHz) |
|------------|-------------------|-------------|-------------|---------------------|-------|-------|-------|----------------|-------------------------|---------|-------------------------|
|            |                   |             |             | Ant 0               | Ant 1 | Ant 2 | Ant 3 |                | Ant 0+2                 | Ant 1+3 |                         |
| 11a        | 6Mbps             | 149         | 5745        | 4.50                | 3.30  | 3.63  | 4.68  | 95.62          | 7.29                    | 7.25    | ≤ 19.51                 |
| 11a        | 6Mbps             | 157         | 5785        | 4.56                | 2.78  | 3.66  | 4.45  | 95.62          | 7.34                    | 6.90    | ≤ 19.51                 |
| 11a        | 6Mbps             | 165         | 5825        | 4.71                | 3.20  | 3.60  | 4.61  | 95.62          | 7.40                    | 7.17    | ≤ 19.51                 |
| 11ac-VHT20 | MCS0              | 149         | 5745        | 3.83                | 2.73  | 3.26  | 3.92  | 93.57          | 6.85                    | 6.67    | ≤ 19.51                 |
| 11ac-VHT20 | MCS0              | 157         | 5785        | 4.19                | 1.95  | 3.31  | 3.92  | 93.57          | 7.07                    | 6.35    | ≤ 19.51                 |
| 11ac-VHT20 | MCS0              | 165         | 5825        | 3.28                | 1.86  | 2.29  | 3.20  | 93.57          | 6.11                    | 5.88    | ≤ 19.51                 |
| 11ac-VHT40 | MCS0              | 151         | 5755        | 1.40                | -1.03 | -0.12 | 1.31  | 91.71          | 4.10                    | 3.68    | ≤ 19.51                 |
| 11ac-VHT40 | MCS0              | 159         | 5795        | 1.14                | -1.27 | -0.75 | 0.59  | 91.71          | 3.68                    | 3.14    | ≤ 19.51                 |
| 11ac-VHT80 | MCS0              | 155         | 5775        | -1.53               | -3.68 | -2.67 | -2.11 | 92.64          | 1.28                    | 0.52    | ≤ 19.51                 |
| 11ax-HE20  | MCS0              | 149         | 5745        | 3.47                | 2.86  | 3.34  | 4.26  | 95.10          | 6.63                    | 6.84    | ≤ 19.51                 |
| 11ax-HE20  | MCS0              | 157         | 5785        | 3.51                | 3.37  | 2.45  | 4.57  | 95.10          | 6.24                    | 7.24    | ≤ 19.51                 |
| 11ax-HE20  | MCS0              | 165         | 5825        | 3.20                | 3.05  | 2.11  | 3.73  | 95.10          | 5.91                    | 6.63    | ≤ 19.51                 |
| 11ax-HE40  | MCS0              | 151         | 5755        | 1.03                | 0.33  | 0.40  | 1.65  | 93.30          | 4.03                    | 4.35    | ≤ 19.51                 |
| 11ax-HE40  | MCS0              | 159         | 5795        | 0.56                | 0.13  | -0.88 | 1.02  | 93.30          | 3.21                    | 3.91    | ≤ 19.51                 |
| 11ax-HE80  | MCS0              | 155         | 5775        | -1.93               | -2.22 | -2.86 | -1.40 | 94.43          | 0.89                    | 1.47    | ≤ 19.51                 |

Note 1:

When EUT duty cycle < 98%,

Ant 0+2 total PSD (dBm/510kHz) =  $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)}\} + 10 \cdot \log (1/\text{Duty cycle})$ ,

Ant 1+3 total PSD (dBm/510kHz) =  $10 \cdot \log \{10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)}\} + 10 \cdot \log (1/\text{Duty cycle})$ .

When EUT duty cycle ≥ 98%,

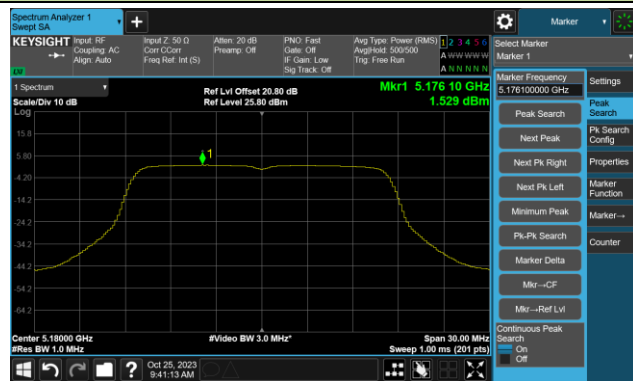
Ant 0+2 total PSD (dBm/510kHz) =  $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)}\}$ ,

Ant 1+3 total PSD (dBm/510kHz) =  $10 \cdot \log \{10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)}\}$ .

Note 2: PSD Limit (dBm/500kHz) = 30 - (16.49 - 6) = 19.51dBm/500KHz.

## 802.11a Power Spectral Density- Ant 0

Channel 36 (5180MHz)



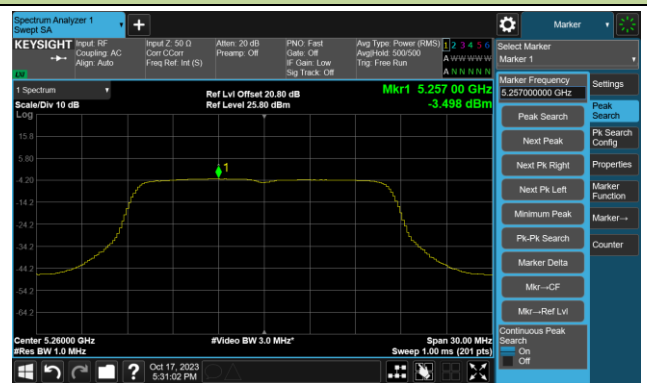
Channel 44 (5220MHz)



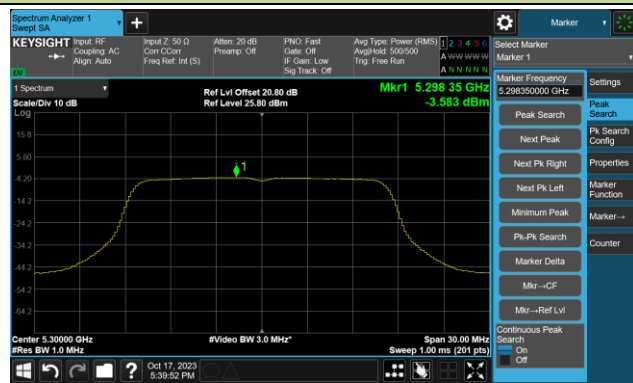
Channel 48 (5240MHz)



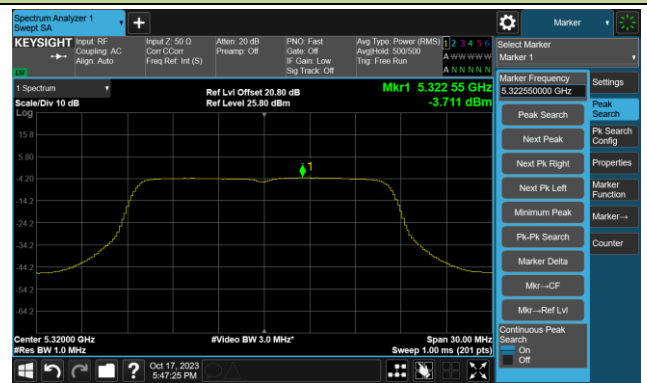
Channel 52 (5260MHz)



Channel 60 (5300MHz)



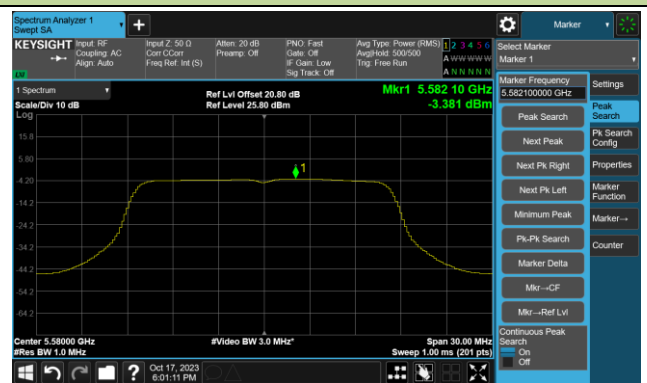
Channel 64 (5320MHz)



Channel 100 (5500MHz)

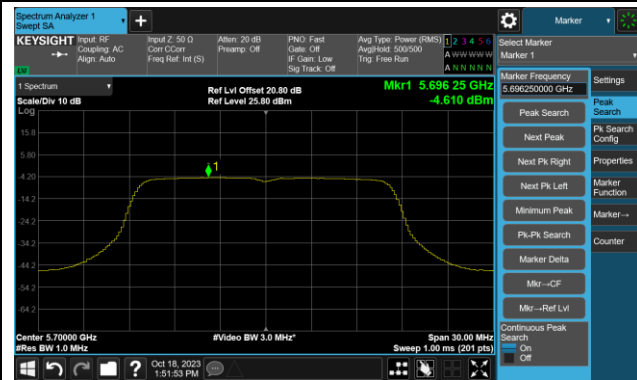


Channel 116 (5580MHz)

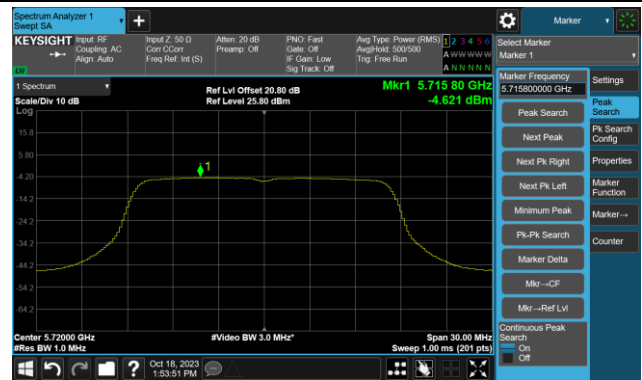


## 802.11a Power Spectral Density- Ant 0

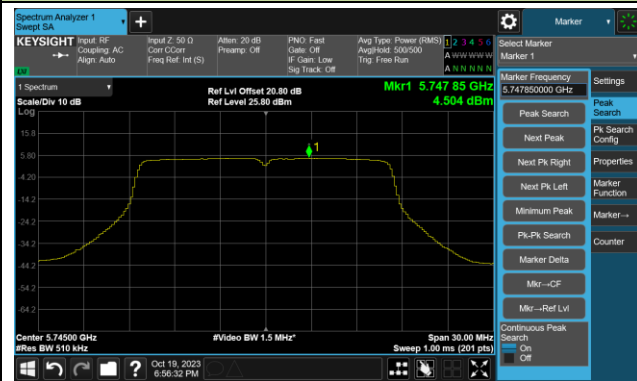
Channel 140 (5700MHz)



Channel 144(5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)

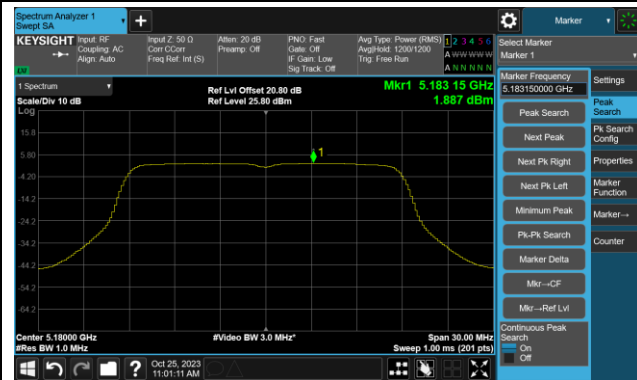


Channel 165 (5825MHz)



## 802.11ac-VHT20 Power Spectral Density- Ant 0

Channel 36 (5180MHz)



Channel 44 (5220MHz)



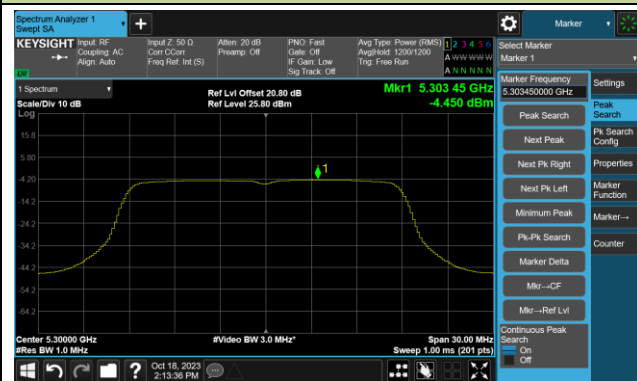
Channel 48 (5240MHz)



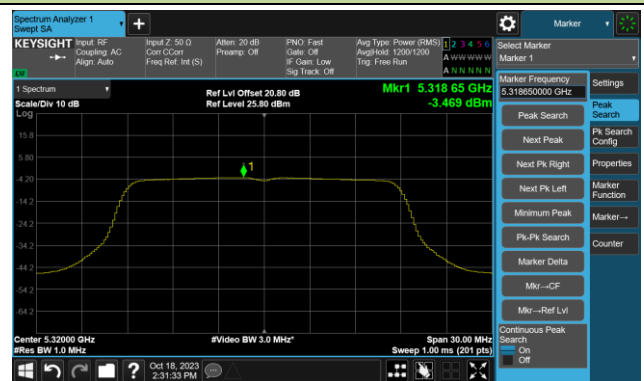
Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)

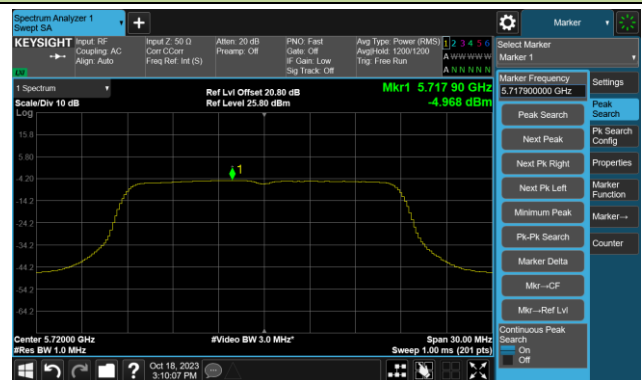


## 802.11ac-VHT20 Power Spectral Density- Ant 0

Channel 140 (5700MHz)



Channel 144(5720MHz)



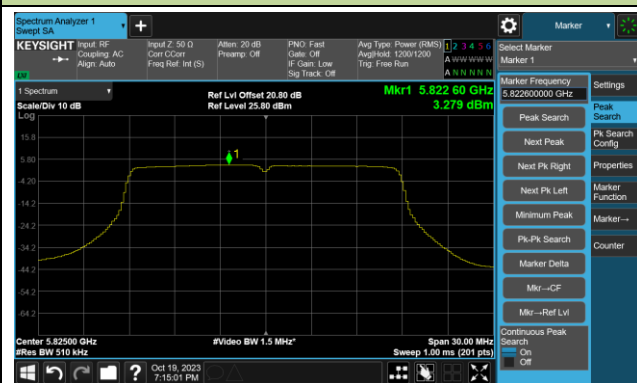
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



## 802.11ac-VHT40 Power Spectral Density- Ant 0

Channel 38 (5190MHz)



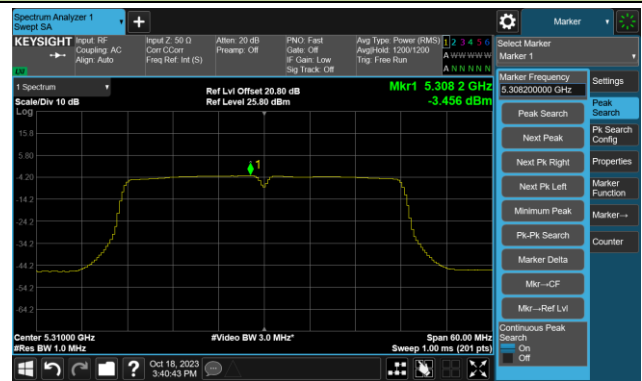
Channel 46 (5230MHz)



Channel 54 (5270MHz)



Channel 62 (5310MHz)



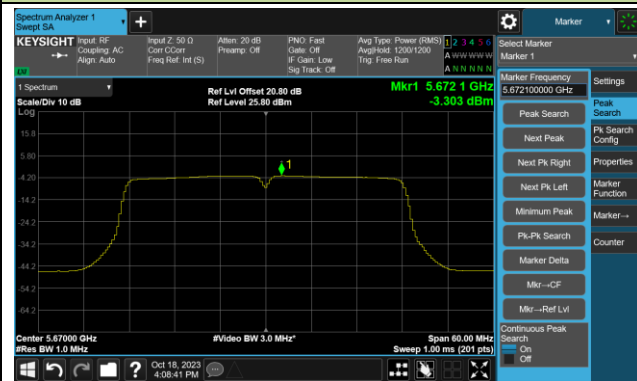
Channel 102 (5510MHz)



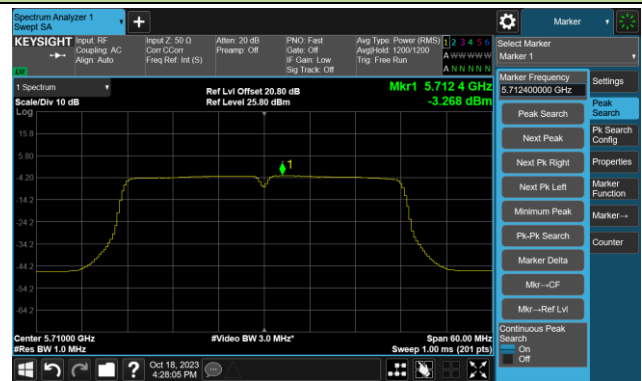
Channel 110 (5550MHz)



Channel 134 (5670MHz)

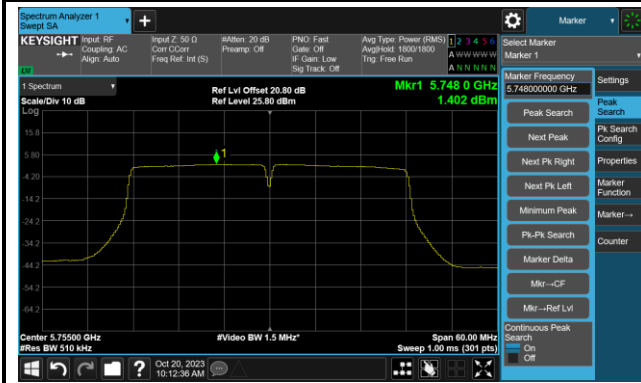


Channel 142(5710MHz)

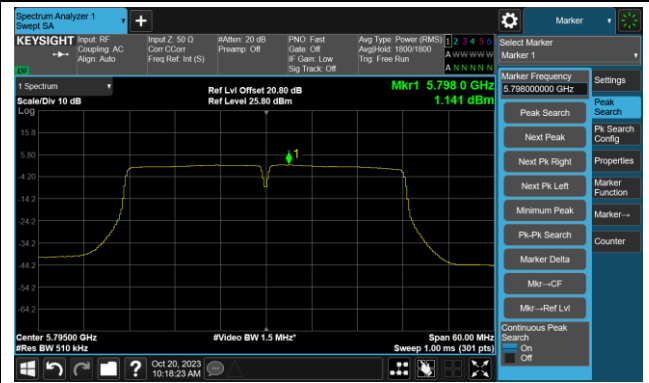


## 802.11ac-VHT40 Power Spectral Density- Ant 0

## Channel 151 (5755MHz)

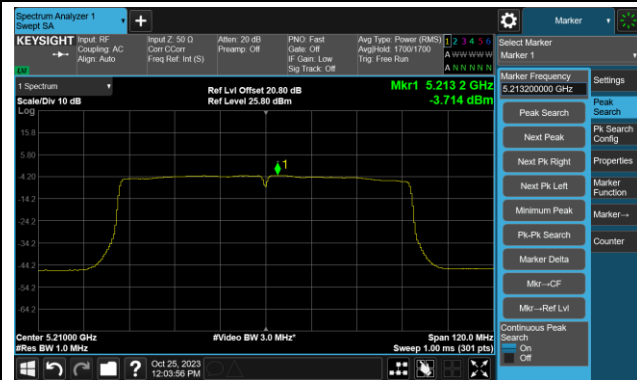


## Channel 159 (5795MHz)



## 802.11ac-VHT80 Power Spectral Density- Ant 0

Channel 42 (5210MHz)



Channel 58 (5290MHz)



Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)

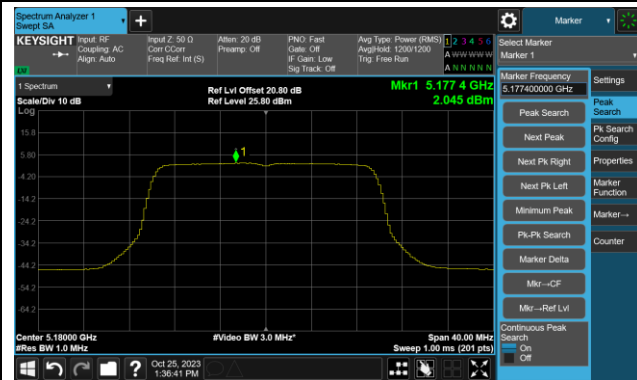


Channel 155 (5775MHz)

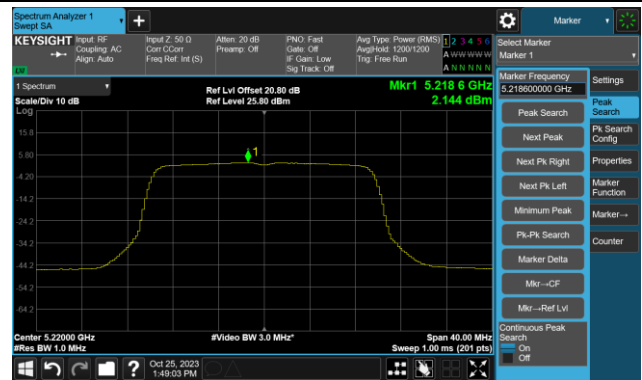


## 802.11ax-HE20 Power Spectral Density- Ant 0

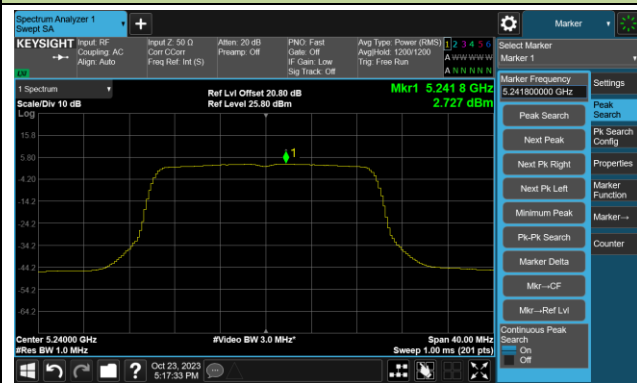
Channel 36 (5180MHz)



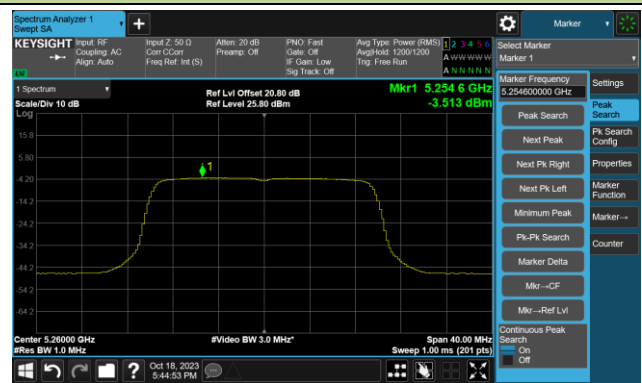
Channel 44 (5220MHz)



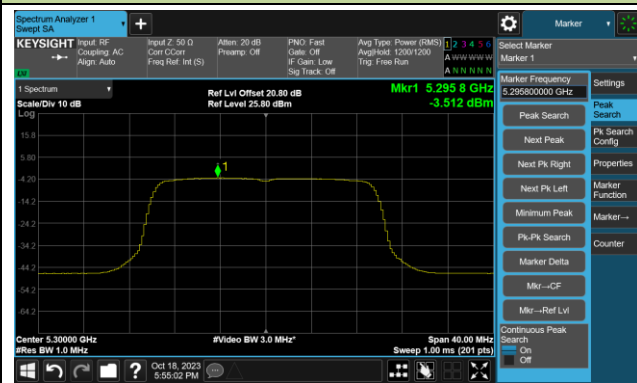
Channel 48 (5240MHz)



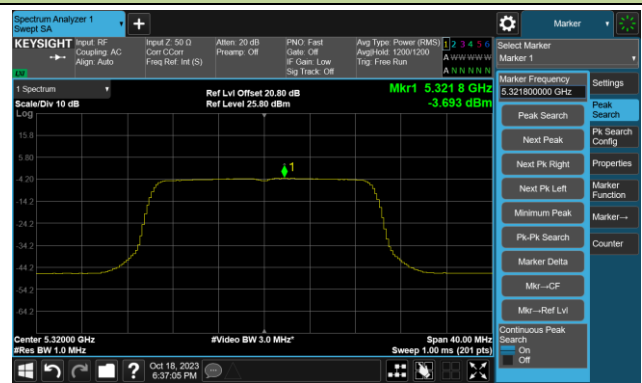
Channel 52 (5260MHz)



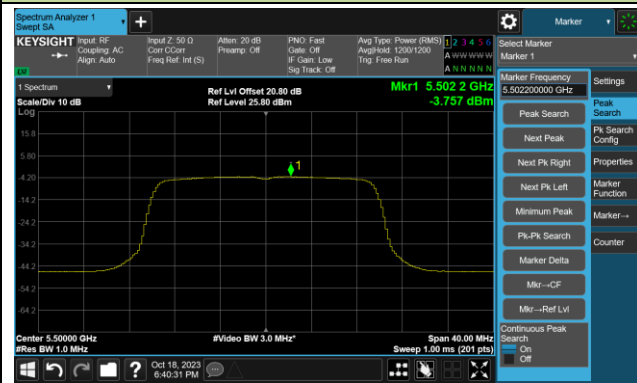
Channel 60 (5300MHz)



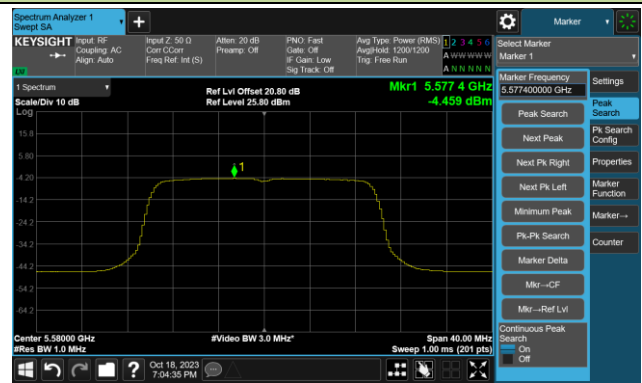
Channel 64 (5320MHz)



Channel 100 (5500MHz)

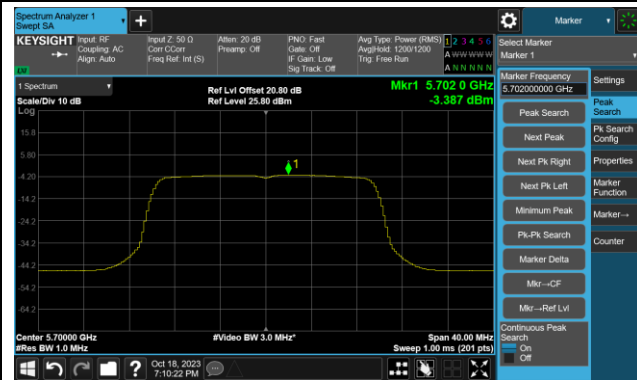


Channel 116 (5580MHz)

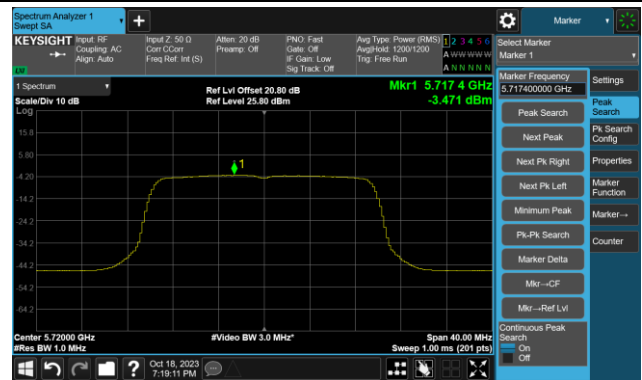


## 802.11ax-HE20 Power Spectral Density- Ant 0

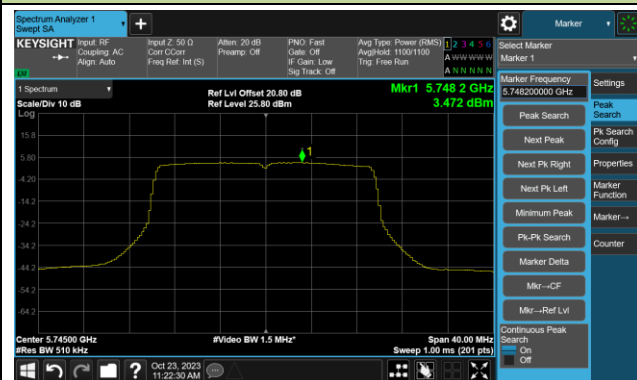
## Channel 140 (5700MHz)



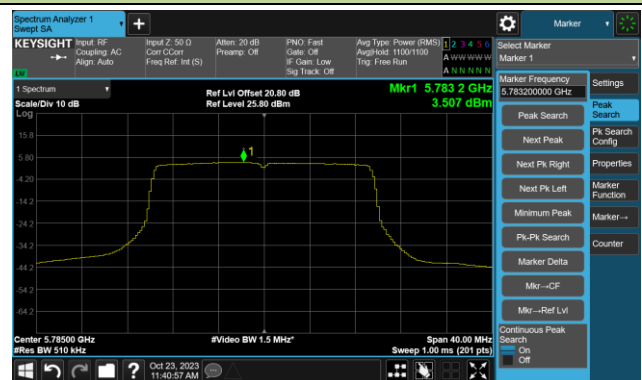
## Channel 144(5720MHz)



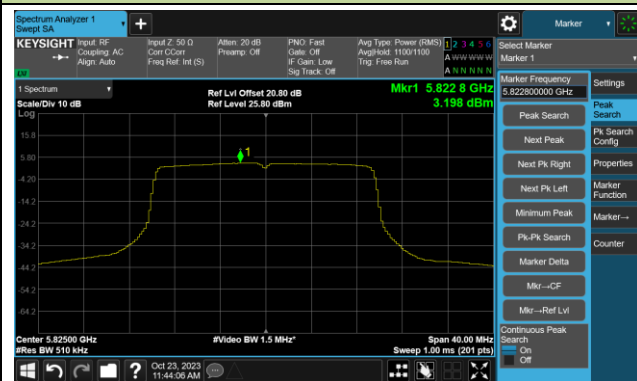
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)



## Channel 165 (5825MHz)



## 802.11ax-HE40 Power Spectral Density- Ant 0

Channel 38 (5190MHz)



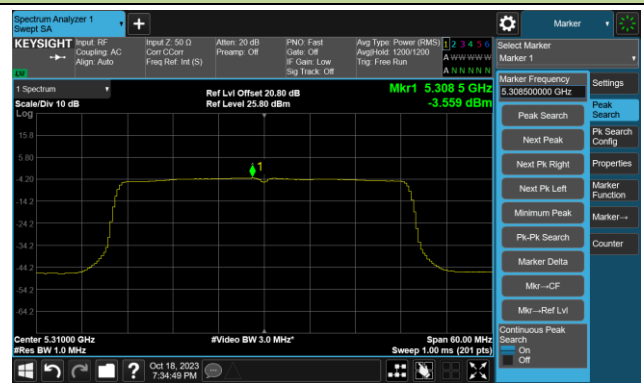
Channel 46 (5230MHz)



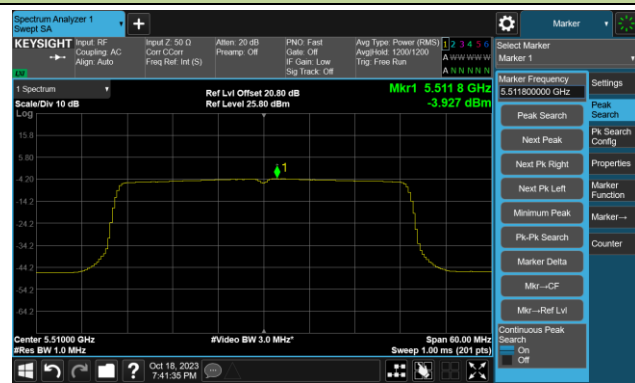
Channel 54 (5270MHz)



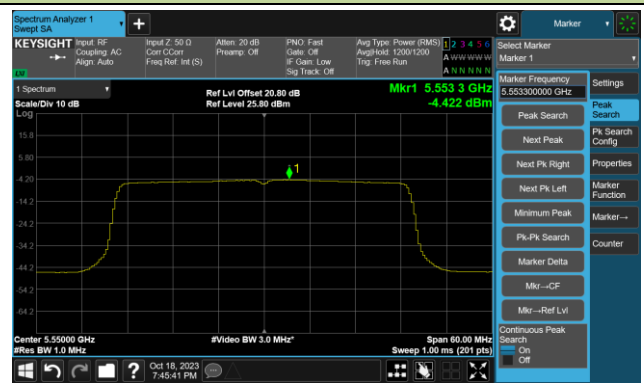
Channel 62 (5310MHz)



Channel 102 (5510MHz)



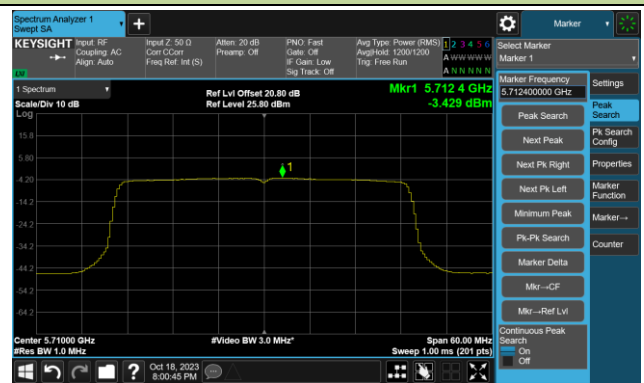
Channel 110 (5550MHz)



Channel 134 (5670MHz)



Channel 142(5710MHz)



## 802.11ax-HE40 Power Spectral Density- Ant 0

## Channel 151 (5755MHz)



## Channel 159 (5795MHz)

